

# **INFORMATION HANDOUT**

**For Contract No. 04-2A4904**

**At 04-SF-280-R4.8/R6.2**

**Identified by**

**Project ID 0400000827**

## **MATERIALS INFORMATION**

Asbestos and Lead-Containing Paint Survey Report, I-280 Southern Freeway Viaduct, Bridge 34-0046, San Francisco, California, December 2011

Regulations for Working in San Francisco Streets, SFMTA, January 2013, 8<sup>th</sup> Edition

Existing Traffic Management Systems List

# ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT

## I-280 SOUTHERN FREEWAY VIADUCT BRIDGE 34-0046 SAN FRANCISCO, CALIFORNIA

PREPARED FOR:

CALIFORNIA DEPARTMENT OF TRANSPORTATION  
DISTRICT 4  
OFFICE OF ENVIRONMENTAL ENGINEERING  
111 GRAND AVENUE  
OAKLAND, CALIFORNIA



PREPARED BY:

GEOCON CONSULTANTS, INC.  
6671 BRISA STREET  
LIVERMORE, CALIFORNIA



GEOCON PROJECT NO. E8560-06-30  
CALTRANS EA 04-4A5101  
CALTRANS PROJECT NO. 04-0000-1138-1

DECEMBER 2011

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## REPORT LIMITATIONS

This asbestos and lead-containing paint (LCP) survey was conducted in conformance with generally accepted standards of practice for identifying and evaluating asbestos and LCP in structures. Due to the nature of structure surveys, asbestos and LCP use, and laboratory analytical limitations, some asbestos or LCP in the structure may not have been identified. Structure spaces such as cavities, crawlspaces, and pipe chases may have been concealed to our investigator. Previous structure renovation work may have concealed or covered spaces or materials, or may have partially demolished materials and left debris in inaccessible areas. Additionally, renovation activities may have partially replaced asbestos with indistinguishable non-asbestos materials. Asbestos or LCP may exist in areas of the structure not accessible or sampled in conjunction with this Task Order.

During renovation or demolition operations, suspect materials may be uncovered which are different from those accessible for sampling during this assessment. Personnel in charge of renovation/demolition should be alerted to note materials uncovered during such activities that differ substantially from those included in this or previous assessment reports. If suspect materials are found, additional sampling and analysis should be performed to determine if the materials contain asbestos or lead.

This report has been prepared exclusively for the State of California Department of Transportation (Caltrans) District 4. The information contained herein is only valid as of the date of the report, and will require an update to reflect additional information obtained.

This report is not a comprehensive site characterization and should not be construed as such. The findings as presented in this report are predicated on the results of the limited sampling and laboratory testing performed. In addition, the information obtained is not intended to address potential impacts related to sources other than those specified herein. Therefore, the report should be deemed conclusive with respect to only the information obtained. We make no warranty, express or implied, with respect to the content of this report or any subsequent reports, correspondence or consultation. Geocon strived to perform the services summarized herein in accordance with the local standard of care in the geographic region at the time the services were rendered.

The contents of this report reflect the views of the authors who are responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the State of California or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation.

**GEOCON CONSULTANTS, INC**



David Watts, CAC  
Senior Project Scientist



Richard Day, CEG, CHG  
Regional Manager

**CALIFORNIA DEPARTMENT OF TRANSPORTATION – DISTRICT 4  
OFFICE OF ENVIRONMENTAL ENGINEERING**

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## EXECUTIVE SUMMARY

This asbestos and lead-containing paint (LCP) survey report was prepared for the Southern Freeway Viaduct (34-0046) at Post Mile (PM) 4.40 on Interstate 280 in San Francisco, California. We performed an asbestos and LCP survey on the bridge. The project location is depicted on the Vicinity Map, Figure 1, and Site Plan, Figure 2. Caltrans has requested an investigation at the project location to provide data regarding the presence of asbestos and LCP prior to bridge repair activities.

This report documents the investigation sampling methods and laboratory analytical data. The primary objective of our survey was to determine and quantify asbestos and LCP at the project location prior to bridge repair activities. The information obtained from this investigation will be used by Caltrans to coordinate proposed activities, determine appropriate abatement/disposal costs, and identify health and safety concerns during improvements.

The field investigation was performed on December 2, 2011. The following field activities were performed during asbestos and LCP sampling efforts:

- Collected six bulk suspect asbestos samples;
- Collected four suspect LCP samples; and
- Transported samples to Caltrans-approved, California-certified environmental laboratories.

Samples were collected from locations as shown in the Site Plan (Figure 2). Suspect asbestos and LCP sample identification numbers are presented in Tables 1 and 2, respectively. Materials represented by the samples collected are presented in the Site Photographs.

Bulk suspect asbestos samples were collected after first wetting friable materials with a light mist of water. The samples were then cut from the substrate and transferred to labeled containers and sealed. Three suspect materials were identified during the survey (see Table 1). Sampling locations were distributed throughout the homogeneous areas (spaces where the material was observed).

We relinquished bulk samples for asbestos analysis using standard chain-of-custody documentation. Asbestos content was determined using U.S. Environmental Protection Agency (EPA) Test Method 600/R-93/116 for polarized light microscopy (PLM). We requested laboratory analyses to be within a 5-day turn-around-time.

Four bulk paint samples were collected using techniques presented in U.S. Department of Housing and Urban Development (HUD) guidelines. Two paint systems were identified during the survey (see Table 2).

*It was not Geocon's intent during this inspection to conduct an evaluation of lead-based paint hazards in accordance with HUD guidelines.*

We relinquished bulk paint samples for lead analysis using standard chain-of-custody documentation. Total lead content was determined using EPA Test Method 6010B. We requested laboratory analyses to be within a 5-day turn-around-time.

The laboratory analyses for asbestos indicated the following:

- Chrysotile asbestos at a concentration of 75% was detected in samples representing nonfriable sheet packing used as shims on the bridge barrier rail system. We were not able to quantify the shims due to safety concerns (i.e., traffic).
- No asbestos was detected in samples of the remaining suspect materials collected during our survey.

Laboratory results for the asbestos samples are summarized on Table 1. Reproductions of the laboratory report and chain-of-custody documentation are presented in Appendix A.

The laboratory analyses for lead paint indicated the following:

- Bulk samples representing intact yellow traffic striping exhibited total lead concentrations of 120 and 96 milligrams per kilogram (mg/kg) and a composite Waste Extraction Test (WET) lead concentration of 0.91 milligrams per liter (mg/l).
- Bulk samples representing intact white traffic striping exhibited total lead concentrations of 6.8 and 2.9 mg/kg.

Geocon paint sample laboratory results are summarized on Table 2. Reproductions of the lead laboratory report and chain-of-custody documentation are presented in Appendix A.

We provide the following conclusions and recommendations based on the results of our investigation.

National Emissions Standards for Hazardous Air Pollutants (NESHAP) regulations do not require that asbestos-containing sheet packing (a Category I nonfriable/nonhazardous material) identified during our survey be removed prior to demolition or treated as hazardous waste. However, the disturbance of the material is still covered by the California Occupational Safety and Health Administration (Cal/OSHA) asbestos standard contained in Title 8, CCR Section 1529. We recommend that a licensed contractor registered with Cal/OSHA for asbestos-related work perform activities that would disturb the sheet packing. Contractors are responsible for informing landfills and recycling facilities of the contractor's intent to dispose of asbestos-containing waste. Some landfills and recycling facilities may require additional waste characterization. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

We also recommend written notification to contractors that will be conducting related activities of the presence of asbestos (i.e., provide the contractor[s] with a copy of this report and a list of asbestos removed by a licensed contractor[s] during subsequent abatement activities). Contractors not trained for asbestos work should be instructed not to disturb asbestos.

In accordance with Bay Area Air Quality Management District (BAAQMD) Regulation 11, Rule 2, written notification is required ten working days prior to commencement of *any* demolition activity (whether asbestos is present or not). In accordance with Title 8, CCR 341.9, written notification to the nearest Cal/OSHA district office is required at least 24 hours prior to certain asbestos-related work.

LCP identified during our survey would not be considered a potential California or Federal hazardous waste based on lead content.

We recommend that all paints at the project location (including graffiti, graffiti abatement, signage, etc.) be treated as lead-containing for purposes of determining the applicability of the Cal/OSHA lead standard during maintenance, renovation, and demolition activities. This recommendation is based on LCP sample results and the fact that lead was a common ingredient of paints manufactured before 1978 and is still an ingredient of some paints. In accordance with Title 8, CCR, Section 1532.1(p), written notification to the nearest Cal/OSHA district office is required at least 24 hours prior to certain lead-related work. Compliance and training requirements regarding construction activities where workers may be exposed to lead are presented in Title 8, CCR, Section 1532.1, subsections (e) and (l), respectively. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

# ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT

## 1.0 INTRODUCTION

This asbestos and lead-containing paint (LCP) survey report was prepared for the Interstate (I)-280 Southern Freeway Viaduct in San Francisco, California. This report documents the investigation sampling methods and laboratory analytical data.

### 1.1 Site Description and Proposed Improvements

The project consists of the Southern Freeway Viaduct (34-0046) at Post Mile (PM) 4.40 on I-280 in San Francisco, California. The project location is depicted on the Vicinity Map, Figure 1, and Site Plan, Figure 2. Caltrans has requested an investigation at the project location to provide data regarding the presence of asbestos and LCP prior to bridge repair activities.

### 1.2 Purpose

The primary objective of our survey was to determine and quantify asbestos and LCP at the project location prior to bridge repair activities. The information obtained from this investigation will be used by Caltrans to coordinate proposed improvements, determine appropriate abatement/disposal costs, and identify health and safety concerns during improvements.

## 2.0 BACKGROUND

### 2.1 Asbestos

The *Code of Federal Regulations (CFR)*, 40 CFR 61, Subpart M, National Emissions Standards for Hazardous Air Pollutants (NESHAP) and Federal Occupational Safety and Health Administration (FED OSHA) classify asbestos-containing material (ACM) as any material or product that contains *greater than* 1% asbestos. Nonfriable ACM is classified by NESHAP as either Category I or Category II material defined as follows:

- **Category I** – asbestos-containing packings, gaskets, resilient floor coverings, and asphalt roofing products.
- **Category II** – all remaining types of non-friable asbestos-containing material not included in Category I that when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Regulated asbestos-containing material (RACM), a hazardous waste when friable, is classified as any manufactured material that contains *greater than* 1% asbestos by dry weight *and* is:

- Friable; or
- Category I material that has become friable; or

- Category I material that has been subjected to sanding, grinding, cutting, or abrading; or
- Category II non-friable material that has a high probability of becoming crumbled, pulverized, or reduced to a powder during demolition or renovation activities.

Activities that disturb materials containing *any* amount of asbestos are subject to certain requirements of the California Occupational Safety and Health Administration (Cal/OSHA) asbestos standard contained in Title 8, CCR Section 1529. Typically, removal or disturbance of more than 100 square feet of material containing more than 0.1% asbestos must be performed by a registered asbestos abatement contractor, but associated waste labeling is not required if the material contains 1% or less asbestos. When the asbestos content of a material exceeds 1%, virtually all requirements of the standard become effective.

Materials containing more than 1% asbestos are also subject to NESHAP regulations (40 CFR Part 61, Subpart M). RACM (friable ACM and nonfriable ACM that will become friable during demolition operations) must be removed from structures prior to demolition. Certain nonfriable ACM and materials containing 1% or less asbestos may remain in structures during demolition; however, there are waste handling/disposal issues and Cal/OSHA work requirements that must be followed. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

With respect to potential worker exposure, notification, and registration requirements, Cal/OSHA defines asbestos-containing construction material (ACCM) as construction material that contains more than 0.1% asbestos (Title 8, CCR 341.6).

## **2.2 Lead Paint**

Construction activities (including demolition) that disturb materials or paints containing *any* amount of lead are subject to certain requirements of the Cal/OSHA lead standard contained in Title 8, CCR, Section 1532.1. Deteriorated paint is defined by Title 17, CCR, Division 1, Chapter 8, §35022 as a surface coating that is cracking, chalking, flaking, chipping, peeling, non-intact, failed, or otherwise separating from a component. Demolition of a deteriorated LCP component would require waste characterization and appropriate disposal. Most landfills and recycling facilities accept intact LCP on a component; however, contractors are responsible for segregating and characterizing waste streams prior to disposal.

For a solid waste containing lead, the waste is classified as California hazardous when: 1) the total lead content equals or exceeds the respective Total Threshold Limit Concentration (TTLC) of 1,000 milligrams per kilogram (mg/kg); or 2) the soluble lead content equals or exceeds the respective Soluble Threshold Limit Concentration (STLC) of 5 milligrams per liter (mg/l) based on the standard Waste Extraction Test (WET). A waste has the potential for exceeding the lead STLC when the waste's total lead content is greater than or equal to ten times the respective STLC value since the WET uses a 1:10 dilution ratio. Hence, when total lead is detected at a concentration greater than or equal to

50 mg/kg, and assuming that 100 percent of the total lead is soluble, soluble lead analysis is required. Lead-containing waste is classified as “Resource, Conservation, and Recovery Act” (RCRA) hazardous, or Federal hazardous, when the soluble lead content equals or exceeds the Federal regulatory level of 5 mg/l based on the Toxicity Characteristic Leaching Procedure (TCLP).

The above regulatory criteria are based on chemical concentrations. Wastes may also be classified as hazardous based on other criteria such as ignitability; however, for the purposes of this investigation, toxicity (i.e., lead concentrations) is the primary factor considered for waste classification since waste generated during the construction activities would not likely warrant testing for ignitability or other criteria. Waste that is classified as either California hazardous or RCRA hazardous requires management as a hazardous waste.

Potential hazards exist to workers who remove or cut through LCP coatings during demolition. Dust containing hazardous concentrations of lead may be generated during scraping or cutting materials coated with LCP. Torching of these materials may produce lead oxide fumes. Therefore, air monitoring and/or respiratory protection may be required during the demolition of materials coated with LCP. Guidelines regarding regulatory provisions for construction work where workers may be exposed to lead are presented in the Title 8, CCR, Section 1532.1.

### **3.0 SCOPE OF SERVICES**

The following scope of services was performed:

#### **3.1 Pre-Field Activities**

- Retained the services of EMSL, a Caltrans-approved laboratory accredited by the National Voluntary Laboratory Accreditation Program (NVLAP), to perform the asbestos analyses.
- Retained the services of ATL, a Caltrans-approved laboratory, to perform the lead paint analyses.

#### **3.2 Field Activities**

Mr. David Watts, a California-Certified Asbestos Consultant (CAC), certification No. 98-2404 (expiration September 16, 2012), and Certified Lead Paint Inspector/Assessor and Project Monitor with the California Department of Public Health (DPH), certification numbers I-1734 and M-1734 (expiration December 4, 2012), performed the asbestos and LCP survey on December 2, 2011. Six bulk samples of suspect ACM were collected. Four bulk samples of suspect LCP were collected.

## 4.0 INVESTIGATIVE METHODS

### 4.1 Asbestos

Bulk suspect asbestos samples were collected after first wetting friable materials with a light mist of water. The samples were then cut from the substrate and transferred to labeled containers and sealed. We observed three suspect materials during the survey (see Table 1). Sampling locations were distributed throughout the homogeneous areas (spaces where the material was observed).

We relinquished bulk samples for asbestos analysis using standard chain-of-custody documentation. Asbestos content was determined using EPA Test Method 600/R-93/116 for polarized light microscopy (PLM). We requested laboratory analyses to be within a 5-day turnaround time.

### 4.2 Lead Paint

Four bulk paint samples were collected using techniques presented in U.S. Department of Housing and Urban Development (HUD) guidelines. Two paint systems were identified during the survey (see Table 2).

*It was not Geocon's intent during this inspection to conduct an evaluation of lead-based paint hazards in accordance with HUD guidelines.*

We relinquished bulk paint samples for lead analysis using standard chain-of-custody documentation. Total lead content was determined using EPA Test Method 6010B. We requested laboratory analyses to be within a 5-day turnaround time.

## 5.0 INVESTIGATIVE RESULTS

### 5.1 Asbestos

The laboratory analyses for asbestos indicated the following:

- Chrysotile asbestos at a concentration of 75% was detected in samples representing nonfriable sheet packing used as shims on the bridge barrier rail system. We were not able to quantify the shims due to safety concerns (i.e., traffic).
- No asbestos was detected in samples of the remaining suspect materials collected during our survey.

Laboratory results for the asbestos samples are summarized on Table 1. Reproductions of the laboratory report and chain-of-custody documentation are presented in Appendix A.

## 5.2 Lead Paint

The laboratory analyses for lead paint indicated the following:

- Bulk samples representing intact yellow traffic striping exhibited total lead concentrations of 120 and 96 mg/kg and a composite WET lead concentration of 0.91 mg/l.
- Bulk samples representing intact white traffic striping exhibited total lead concentrations of 6.8 and 2.9 mg/kg.

Geocon paint sample laboratory results are summarized on Table 2. Reproductions of the lead laboratory report and chain-of-custody documentation are presented in Appendix A.

## 6.0 CONCLUSIONS

### 6.1 Asbestos

NESHAP regulations do not require that asbestos-containing sheet piling (a Category I nonfriable/nonhazardous material) identified during our survey be removed prior to demolition or treated as hazardous waste. However, the disturbance of the material is still covered by the Cal/OSHA asbestos standard contained in Title 8, CCR Section 1529. We recommend that a licensed contractor registered with Cal/OSHA for asbestos-related work perform activities that would disturb the sheet piling. Contractors are responsible for informing landfills and recycling facilities of the contractor's intent to dispose of asbestos-containing waste. Some landfills and recycling facilities may require additional waste characterization. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

We also recommend written notification to contractors that will be conducting related activities of the presence of asbestos (i.e., provide the contractor[s] with a copy of this report and a list of asbestos removed by a licensed contractor[s] during subsequent abatement activities). Contractors not trained for asbestos work should be instructed not to disturb asbestos.

In accordance with Bay Area Air Quality Management District (BAAQMD) Regulation 11, Rule 2, written notification is required ten working days prior to commencement of *any* demolition activity (whether asbestos is present or not). In accordance with Title 8, CCR 341.9, written notification to the nearest Cal/OSHA district office is required at least 24 hours prior to certain asbestos-related work.

## 6.2 Lead Paint

LCP identified during our survey would not be considered a potential California or Federal hazardous waste based on lead content.

We recommend that all paints at the project location (graffiti, graffiti abatement, signage, etc.) be treated as lead-containing for purposes of determining the applicability of the Cal/OSHA lead standard during maintenance, renovation, and demolition activities. This recommendation is based on LCP sample results and the fact that lead was a common ingredient of paints manufactured before 1978 and is still an ingredient of some paints. In accordance with Title 8, CCR, Section 1532.1(p), written notification to the nearest Cal/OSHA district office is required at least 24 hours prior to certain lead-related work. Compliance and training requirements regarding construction activities where workers may be exposed to lead are presented in Title 8, CCR, Section 1532.1, subsections (e) and (l), respectively. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

**TABLE 1**  
**SUMMARY OF ANALYTICAL LABORATORY TEST RESULTS - ASBESTOS**  
**SOUTHERN FREEWAY VIADUCT (34-0046)**  
**SAN FRANCISCO, CALIFORNIA**

**Polarized Light Microscopy (PLM) - EPA Test Method 600/R-93/116**

<b>Sample ID</b>	<b>Description of Suspect Material</b>	<b>Approximate Quantity</b>	<b>Friable</b>	<b>Site Photos</b>	<b>Asbestos Content</b>
1A 1B	Sheet packing (barrier rail shims)	Unable to safely quantify	No	2	75% 75%
2A 2B	Expansion joint fill material	NA	NA	3 and 4	ND ND
3A 3B	Deck joint seals	NA	NA	5	ND ND

Notes:

NA = Not applicable

ND = No asbestos fibers detected

**TABLE 2**  
**SUMMARY OF ANALYTICAL LABORATORY TEST RESULTS - PAINT**  
**SOUTHERN FREEWAY VIADUCT (34-0046)**  
**SAN FRANCISCO, CALIFORNIA**

Total and Soluble Lead

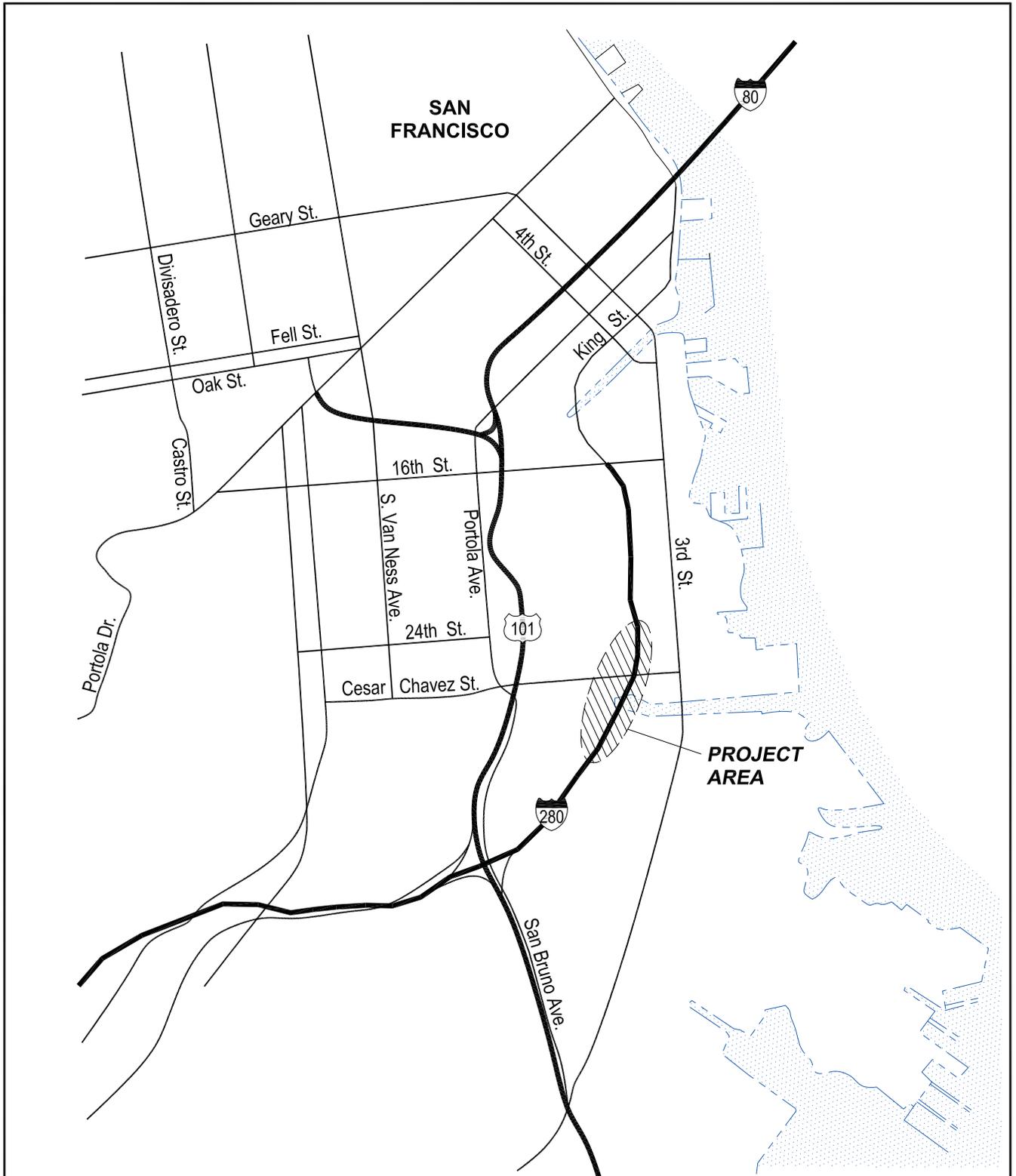
Sample No.	Paint Description	Approximate Quantity	Peeling/Flaking	Site Photos	Total Lead (mg/kg)	WET Lead (mg/l)
P1A P1B	Yellow traffic striping	Intact		5	120 96	0.91
P2A P2B	White traffic striping	Intact		5	6.8 2.9	---

Notes:

mg/kg = milligrams per kilogram (EPA 6010)

WET = Waste Extraction Test

mg/l = milligrams per liter



0 4,000  
 APPROX. SCALE: feet



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**Southern Freeway Viaduct (34-0046)**

San Francisco,  
 California

**VICINITY MAP**

GEOCON Proj. No. E8560-06-30

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Figure 1



**LEGEND:**  
 ● Approximate Asbestos Sample Location  
 ▲ Approximate Paint Sample Location



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Southern Freeway Viaduct (34-0046)

San Francisco,  
California

**SITE PLAN**

GEOCON Proj. No. E8560-06-30

Task Order No. 30

December 2011

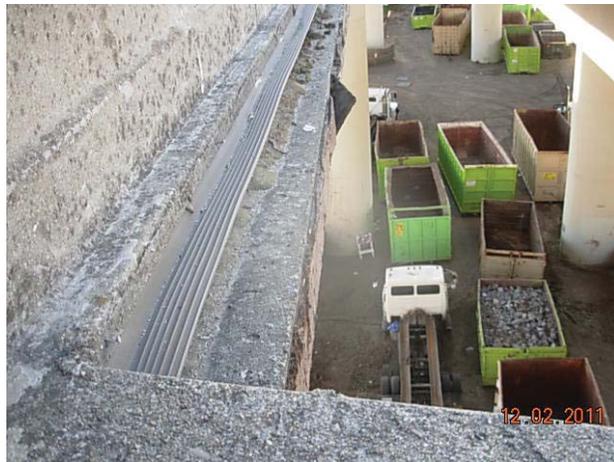
Figure 2



**Photo 1 – Southern Freeway Viaduct (34-0046) in San Francisco, California**



**Photo 2 – Barrier rail system (shims are asbestos-containing)**



**Photo 3 – Joint fill material on northbound span**



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**PHOTOGRAPHS 1, 2, & 3**

Southern Freeway Viaduct (34-0046)  
San Francisco, California

E8560-06-30

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**Photo 4 – Joint fill material on southbound span**



**Photo 5 – Bridge deck**



**Photo 6 – Damaged hinge near 25<sup>th</sup> Street**



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**PHOTOGRAPHS 4, 5, & 6**

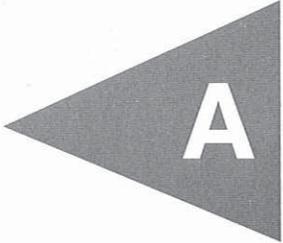
Southern Freeway Viaduct (34-0046)  
San Francisco, California

E8560-06-30

Task Order No. 30

December 2011

APPENDIX



A



**EMSL Analytical, Inc**

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Phone: (510) 895-3675 Fax: (510) 895-3680 Email: [sanleandrolab@emsl.com](mailto:sanleandrolab@emsl.com)

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**6671 Brisa Street**  
  
**Livermore, CA 94550**

Customer ID: GECN21  
Customer PO: E8560-06-30  
Received: 12/02/11 12:14 PM  
EMSL Order: 091113550

Fax: (925) 371-5915 Phone: (925) 371-5900  
Project: **E8560-06-30**  
**SFO 280**

EMSL Proj: E8560-06-\*\*  
Analysis Date: 12/9/2011

**Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy**

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1A Sheet Packing <i>091113550-0001</i>		Black Fibrous Homogeneous		25% Non-fibrous (other)	<b>75% Chrysotile</b>
1B Sheet Packing <i>091113550-0002</i>		Black Fibrous Homogeneous		25% Non-fibrous (other)	<b>75% Chrysotile</b>
2A Fill Material <i>091113550-0003</i>		Black Fibrous Homogeneous	50% Cellulose	50% Non-fibrous (other)	<b>None Detected</b>
2B Fill Material <i>091113550-0004</i>		Black Fibrous Homogeneous	50% Cellulose	50% Non-fibrous (other)	<b>None Detected</b>
3A Joint Seal <i>091113550-0005</i>		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>
3B Joint Seal <i>091113550-0006</i>		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	<b>None Detected</b>

Initial report from 12/09/2011 09:22:00

Analyst(s)  

---

*Nonette Patron (6)*

---

Baojia Ke, Laboratory Manager  
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm asbestos quantities. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.  
Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, MA AA000201, WA C2007



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

# Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

091113550

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PHONE: (510) 895-3675  
FAX: (510) 895-3680

Company: <u>GEDCON</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: <u>6671 BRISA ST</u>		Third Party Billing requires written authorization from third party	
City: <u>LIVERMORE</u>	State/Province: <u>CA</u>	Zip/Postal Code: <u>94550</u>	Country: <u>USA</u>
Report To (Name): <u>D. WATTS</u>		Fax #: <u>925-371-5915</u>	
Telephone #: <u>925-371-5900</u>		Email Address: <u>WATTS@GEDCONINC.COM</u>	
Project Name/Number: <u>SFO 280</u>		<u>E8560-06-30</u>	
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order: _____ U.S. State Samples Taken: _____	

**Turnaround Time (TAT) Options\* - Please Check**

3 Hour  
  6 Hour  
  24 Hour  
  48 Hour  
  72 Hour  
  96 Hour  
  1 Week  
  2 Week

\*For TEM Air 3 hours/6 hours, please call ahead to schedule. \*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

<b>PCM - Air</b> <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA	<b>TEM - Air</b> <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312	<b>TEM - Dust</b> <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)
<b>PLM - Bulk (reporting limit)</b> <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)	<b>TEM - Bulk</b> <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5	<b>Soil/Rock/Vermiculite</b> <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> EPA Protocol (Semi-Quantitative) <input type="checkbox"/> EPA Protocol (Quantitative)
<b>TEM - Water: EPA 100.2</b> Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking		<b>Other:</b> <input type="checkbox"/>

Check For Positive Stop - Clearly Identify Homogenous Group

Samplers Name: \_\_\_\_\_ Samplers Signature: \_\_\_\_\_

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
1A/B	SHEET PACKING	NA	2 DEC 2011
2A/B	JOINT FILL MATERIAL	↓	↓
3A/B	DECK JOINT SEALS	↓	↓

Client Sample # (s): \_\_\_\_\_ Total # of Samples: 6

Relinquished (Client): [Signature] Date: 2 DEC 2011 Time: 1214

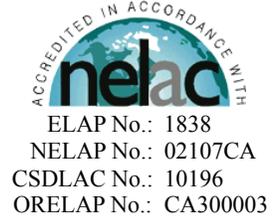
Received (Lab): [Signature] Date: 2 DEC 2011 Time: 1214

Comments/Special Instructions: \_\_\_\_\_

ADVANCED TECHNOLOGY  
LABORATORIES

December 13, 2011

Dave Watts  
Geocon Consultants, Inc.  
6671 Brisa Street  
Livermore, CA 94550  
Tel: (925) 371-5900  
Fax: (925) 371-5915



Re: ATL Work Order Number : 1100512  
Client Reference : SFO-280, E8560-06-30

Enclosed are the results for sample(s) received on December 07, 2011 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

A handwritten signature in black ink, appearing to read 'Eddie Rodriguez', is written over a horizontal dashed line. Below the signature, there is a solid horizontal line.

Eddie Rodriguez  
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

3275 Walnut Avenue, Signal Hill, CA 90755 • Tel: 562-989-4045 • Fax: 562-989-4040  
[www.atlglobal.com](http://www.atlglobal.com)



Geocon Consultants, Inc.

6671 Brisa Street

Livermore , CA 94550

Project Number : SFO-280, E8560-06-30

Report To : Dave Watts

Reported : 12/13/2011

### SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
P1A	1100512-01	Paint Chip	12/02/11 0:00	12/07/11 10:49
P1B	1100512-02	Paint Chip	12/02/11 0:00	12/07/11 10:49
P2A	1100512-03	Paint Chip	12/02/11 0:00	12/07/11 10:49
P2B	1100512-04	Paint Chip	12/02/11 0:00	12/07/11 10:49



Geocon Consultants, Inc.  
6671 Brisa Street  
Livermore , CA 94550

Project Number : SFO-280, E8560-06-30  
Report To : Dave Watts  
Reported : 12/13/2011

**Total Metals by ICP-AES EPA 6010B Analyte: Lead Analyst: KK**

Laboratory ID	Client Sample ID	Result	Units	PQL	MDL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1100512-01	P1A	<b>120</b>	(mg/kg)	2.0	NA	1	B1L0344	12/12/2011	12/13/11 11:40	
1100512-02	P1B	<b>96</b>	(mg/kg)	2.0	NA	1	B1L0344	12/12/2011	12/13/11 11:42	
1100512-03	P2A	<b>6.8</b>	(mg/kg)	2.0	NA	1	B1L0344	12/12/2011	12/13/11 11:44	
1100512-04	P2B	<b>2.9</b>	(mg/kg)	2.0	NA	1	B1L0344	12/12/2011	12/13/11 11:46	



Geocon Consultants, Inc.  
 6671 Brisa Street  
 Livermore, CA 94550

Project Number : SFO-280, E8560-06-30  
 Report To : Dave Watts  
 Reported : 12/13/2011

**QUALITY CONTROL SECTION**

**Total Metals by ICP-AES EPA 6010B - Quality Control**

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
<b>Batch B1L0344 - EPA 3050B</b>									
<b>Blank (B1L0344-BLK1)</b>					Prepared: 12/12/2011 Analyzed: 12/13/2011				
Lead	ND	1.0			NR				
<b>LCS (B1L0344-BS1)</b>					Prepared: 12/12/2011 Analyzed: 12/13/2011				
Lead	47	1.0	50.0		94.9	80 - 120			
<b>Duplicate (B1L0344-DUP1)</b>					Prepared: 12/12/2011 Analyzed: 12/13/2011				
Lead	25	1.0		30	NR		18.1	20	
<b>Matrix Spike (B1L0344-MS1)</b>					Prepared: 12/12/2011 Analyzed: 12/13/2011				
Lead	110	1.0	125	30	66.7	46 - 116			
<b>Matrix Spike Dup (B1L0344-MSD1)</b>					Prepared: 12/12/2011 Analyzed: 12/13/2011				
Lead	110	1.0	125	30	62.1	46 - 116	5.15	20	



Geocon Consultants, Inc.

6671 Brisa Street

Livermore , CA 94550

Project Number : SFO-280, E8560-06-30

Report To : Dave Watts

Reported : 12/13/2011

### Notes and Definitions

ND Analyte not detected at or above reporting limit  
PQL Practical Quantitation Limit  
MDL Method Detection Limit  
NR Not Reported  
RPD Relative Percent Difference

# CHAIN OF CUSTODY RECORD

Pg ( of / )

## FOR LABORATORY USE ONLY:

Method of Transport  
 Client  ATL  
 FedEx  OnTrac  
 GSO  Other: \_\_\_\_\_

Sample Condition Upon Receipt  
 1. CHILLED Y  N  4. CUSTODY SEAL Y  N   
 2. HEADSPACE (VOA) Y  N  5. # OF SPLS MATCH COC Y  N   
 3. CONTAINER INTACT Y  N  6. PRESERVED Y  N

P.O.#: \_\_\_\_\_ Quote #: \_\_\_\_\_  
 Logged By: \_\_\_\_\_ Date: 12/7/11  
 NOTE: Please include your Quote No. to ensure proper pricing of your project.

**ADVANCED TECHNOLOGY LABORATORIES**  
 3275 Walnut Ave., Signal Hill, CA 90755  
 Tel: (562) 989-4045 • Fax: (562) 989-4040

Client: **Geocon Consultants, Inc.** Address: 6671 Brisa Street City: Livemore State: CA Zip Code: 94550  
 Attn: **D. WATTS** TEL: (925) 371-5900 FAX: (925) 371-5915  
 Project Name: **SFO-280** Project #: **E8560-06-30** Sampler: **D. WATTS**  
 Relinquished by: (Signature and Printed Name) **WJH** Date: **12/2/11** Time: **19:00** Received by: (Signature and Printed Name) **Mary** Date: **12/5/11** Time: **10:49**  
 Relinquished by: (Signature and Printed Name) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: (Signature and Printed Name) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Relinquished by: (Signature and Printed Name) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: (Signature and Printed Name) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Special Instructions/Comments:  
**Paint - Total Pb**  
**(Anticipate Soluble Request)**

Send Report To:  
 Attn: \_\_\_\_\_ Co: **SEE "CLIENT"** State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Addr: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

I hereby authorize ATL to perform the work indicated below:  
**Project Mgr Submitter:**  
**D. WATTS** 12/4/11 Date  
 Print Name Signature

**Sample/Records - Archival & Disposal**  
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.  
**Storage Fees (applies when storage is requested):**  
 • Sample : \$2.00 / sample / mo (after 45 days)  
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

ITEM	LAB USE ONLY:		Sample Description	Date	Time
	Batch #:	Lab No.			
	11005/2-01		P1A	12/4/11	APM
	2		P1B	↓	↓
	3		P2A	↓	↓
	4		P2B	↓	↓

Circle or Add Analysis(es) Requested  
 8081A (Pesticides) 8082 (PCB) 8260B (Volatiles) 8270C (BNA) 8010B (Total Metal) 8015B (GRO) / 8021 (BTEX) 8015B (DRO) TITLE 22 / CAM 17 (6010 / 7000)

Specify Appropriate Matrix  
 Sediment Solid Soil Drinking Water Ground Water Wastewater Stormwater Aqueous Paint

Container(s) # Type

QA/QC  
 RTNE  CT  Legal   
 SWRCB Logcode OTHER REMARKS  
 YES " MTS "

Special Instructions/Comments:  
 Paint - Total Pb (Anticipate Soluble Request)

Preservatives:  
 H=HCl N=HNO<sub>3</sub> S=H<sub>2</sub>SO<sub>4</sub> C=4°C  
 Z=Zn(AC)<sub>2</sub> O=NaOH T=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

TAT:  A= Overnight ≤ 24 hrs  B= Emergency Next workday  C= Critical 2 Workdays  D= Urgent 3 Workdays  E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

December 28, 2011

Dave Watts  
Geocon Consultants, Inc.  
6671 Brisa Street  
Livermore, CA 94550  
Tel: (925) 371-5900  
Fax: (925) 371-5915



Re: ATL Work Order Number : 1100512  
Client Reference : SFO-280, E8560-06-30

Enclosed are the results for sample(s) received on December 07, 2011 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

A handwritten signature in black ink, appearing to read "Eddie Rodriguez", is written over a horizontal dashed line. Below the signature, there are several horizontal lines of varying lengths, likely representing a signature strip or a separator.

Eddie Rodriguez  
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Geocon Consultants, Inc.  
6671 Brisa Street  
Livermore , CA 94550

Project Number : SFO-280, E8560-06-30

Report To : Dave Watts

Reported : 12/28/2011

### SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Composite P1A / P1B	1100512-05	Paint Chip	12/02/11 0:00	12/07/11 10:49



Geocon Consultants, Inc.  
 6671 Brisa Street  
 Livermore, CA 94550

Project Number : SFO-280, E8560-06-30

Report To : Dave Watts

Reported : 12/28/2011

**Client Sample ID Composite P1A / P1B**

**Lab ID: 1100512-05**

**STLC Lead by AA (Direct Aspiration) by EPA 7420**

**Analyst: VV**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	0.91	0.50	NA	1	B1L0673	12/20/2011	12/22/11 16:03	

**QUALITY CONTROL SECTION**

**STLC Lead by AA (Direct Aspiration) by EPA 7420 - Quality Control**

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
---------	---------------	------------	-------------	---------------	-------	--------------	-----	-----------	-------

**Batch B1L0673 - STLC Extraction**

**Blank (B1L0673-BLK1)**

Prepared: 12/20/2011 Analyzed: 12/22/2011

Lead ND 0.50 NR

**LCS (B1L0673-BS1)**

Prepared: 12/22/2011 Analyzed: 12/22/2011

Lead 5.0 0.05 5.00 99.6 80 - 120

**Duplicate (B1L0673-DUP1)**

**Source: 1100512-05**

Prepared: 12/20/2011 Analyzed: 12/22/2011

Lead 0.71 0.50 0.91 NR 24.9 20 R

**Matrix Spike (B1L0673-MS1)**

**Source: 1100512-05**

Prepared: 12/22/2011 Analyzed: 12/22/2011

Lead 5.9 0.05 5.00 0.91 100 80 - 120

**Matrix Spike Dup (B1L0673-MSD1)**

**Source: 1100512-05**

Prepared: 12/22/2011 Analyzed: 12/22/2011

Lead 5.9 0.05 5.00 0.91 99.2 80 - 120 0.765 20



Geocon Consultants, Inc.

6671 Brisa Street

Livermore, CA 94550

Project Number : SFO-280, E8560-06-30

Report To : Dave Watts

Reported : 12/28/2011

### Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

## Diane Galvan

---

**From:** David Watts [watts@geoconinc.com]  
**Sent:** Thursday, December 15, 2011 4:16 PM  
**To:** Diane Galvan  
**Subject:** RE: Results/EDD - SFO-280 (1100512)

Please composite P1A and P1B and run a WET. Run TCLP if we fail WET.  
Same TAT as CofC

thanks



**David Watts, CAC | Sr. Project Scientist**  
**Geocon Consultants, Inc.**  
6671 Brisa Street, Livermore, California 94550  
Tel 925.371.5900 Fax 925.371.5915 Cell 925.785.5340  
[www.geoconinc.com](http://www.geoconinc.com)

City and County of San Francisco



# Regulations for Working in San Francisco Streets



**SFMTA**

Municipal Transportation Agency

January 2012  
8<sup>th</sup> Edition

\*Includes updated contact info as of 03/2016

## **PARKING AND TRAFFIC REGULATIONS FOR WORKING IN SAN FRANCISCO STREETS (“THE BLUE BOOK”)**

This manual serves as a guide for working in San Francisco streets. Parties working in San Francisco streets are hereinafter referred to collectively as “Contractor” or “Applicant.”

This manual establishes rules and guidance so that work can be done both safely and with the least possible interference with pedestrians, bicycle, transit and vehicular traffic. All traffic control, warning and guidance devices must conform to the California Manual on Uniform Traffic Control Devices (MUTCD). In addition to the regulations in this manual, Contractor is responsible for complying with all applicable city, state, and federal codes, rules and regulations. This manual also contains relevant general information, contact information, and procedures related to working in the public right of way controlled by agencies other than the San Francisco Municipal Transportation Agency (SFMTA).

The party responsible for setting up traffic control shall be held accountable and responsible if traffic control does not meet the guidance and requirements established by this manual and state requirement.

The authority for establishing the Blue Book is derived from the [San Francisco Transportation Code](#).

Prepared by:  
San Francisco Municipal Transportation Agency  
Sustainable Streets Division  
San Francisco, California  
**8th Edition**  
**January 2012**

This free manual can be obtained from, free of charge at:  
San Francisco Municipal Transportation Agency, Sustainable Streets Division,  
1 South Van Ness Avenue, 7<sup>th</sup> Floor, San Francisco, CA 94103-5417

A copy of this manual, including future updates and revisions can be viewed at the following website: <http://www.sfmta.com/bluebook>



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**Quick Phone Guide:**

Excavation Permit	415.554.5810
Temporary Occupancy	415.554.5810
Street Space	415.558.6060
Night Noise Permit	415.554.5810
Tow-Desk Registration	415.554.9928

*See Appendix G for Offices and Phone Numbers*

## **Section 1: PERMITS REQUIRED TO WORK ON CITY STREETS**

The following is a list of different types of permits issued by San Francisco Public Works (SFPW), the San Francisco Municipal Transportation Agency (SFMTA), and other agencies.

Permits must be kept on the job site at all times and be shown to City employees and police officers upon request. Citations may be issued under the Transportation Code for failure to produce a valid permit.

### **1.1 Permits Issued by DPW**

#### **1.1.1 Excavation Permit**

An excavation permit is required for any excavation work within the public right-of-way.

#### **1.1.2 Temporary Occupancy Permit**

A temporary occupancy permit is required for work that involves the use of the sidewalk or a portion of the street pavement, up to one full day, to perform building maintenance work (e.g., using a crane occupying a parking space or pruning trees).

#### **1.1.3 Street Space Permit**

A street space permit is required for work that involves the use of the sidewalk or a portion of the street pavement outside of the building property line or project limits, for building and project construction, respectively. A Special Traffic Permit is required for work outside of the limits defined in a Street Space Permit (see Section 2.2).

#### **1.1.4 Additional Street Space**

Additional Street Space (ADS) for buildings allows the contractor to extend the boundaries of a Street Space Agreement. ADS is used for long term occupancies (over 1 month).

#### **1.1.5 Night Noise Permit**

Any work done between the hours of 8 p.m. and 7 a.m. in the roadway or sidewalk area requires a night noise permit as specified in Section 2908 of the Police Code.

## 1.2 Permit Issued by SFMTA (Special Traffic Permit)

A Special Traffic Permit (STP) is required for any work that does not comply with the regulations in this manual or the Traffic Routing Specifications in a City Contract. A Contractor must apply for an STP a minimum of two business days before undertaking said work. The SFMTA is authorized to review permit requests and issue permits at its discretion. SFMTA may refuse to issue, extend or may revoke an STP depending on the traffic conditions. This section lists the most commonly asked questions regarding STPs. A quick guide to determine whether an STP is needed is provided in Appendix B.

### 1.2.1 Situations Requiring Special Traffic Permits

Whenever the Contractor cannot follow all of the requirements and regulations in this manual, an STP is required. The most common examples are:

**Table 1:** Situations Requiring Special Traffic Permits

<b>Situation</b>	<b>Applicable Section</b>
1. Closing a street or an alley	Section 3.2, Section 4
2. Closing a sidewalk (no path of travel)	Section 5
3. Inability to provide the required number of lanes	Section 3.2
4. Inability to work within working hours in Table 1	Section 2
5. Work through Holiday Moratorium	Section 2.2.4
6. Exceeding Contract Specifications	–
7. Exceeding Street Space Agreement	Section 1.1.3
8. Working within one block of an existing construction area	Section 3.5
9. Moving a bus zone outside the limits of the project.	Section 6.2.3, Section 7
10. Closing or detouring a bike route (includes paths, marked lanes, and signed routes).	Section 9

### 1.2.2 What is the penalty for not having a Special Traffic Permit, when is it required?

A Contractor will not be fined if the Contractor is performing work and is complying with all the requirements and regulations in this manual. However, penalties of \$500 may be assessed for violation of the terms of the Special Traffic Permit (STP) and/or the regulations described in this manual (to include working without an STP when one is required by this manual or the transportation code). A \$1,000 penalty or six months in jail or both may be applied for the fourth and subsequent violations in a 12 month period. See San Francisco Transportation Code Sections 7.2.71, 7.3.3, 302 and 903.

### 1.2.3 If an “emergency” arises, is a Special Traffic Permit required?

No, unless the work extends into the next business day, at which time the Contractor has four (4) hours to apply for an STP to continue work (see Emergency Procedure, Section 12).

### 1.2.4 How do I apply for an STP?

Use the Special Traffic Permit application form found on Page 102, Appendix H; or download the [application](#) from [www.sfmta.com/bluebook](http://www.sfmta.com/bluebook). Complete the form and email it to [trafficpermits@sfmta.com](mailto:trafficpermits@sfmta.com). Use SFMTA striping drawings to clearly show the planned work. The Contractor will be notified by email if the permit request is approved or denied. If approved, the Contractor will be emailed an unofficial copy of the permit indicating that the official copy is ready to be paid for and picked up at SFMTA. Payment may also be made by setting up a draw-down account with SFMTA (see Section 1.2.9).

### 1.2.5 How much does it cost to obtain an STP?

- NEW PERMITS:  
\$175 processing fee + \$36 / day
- RENEWALS (permits less than 90 days old):  
\$88 processing fee + \$36 / day

**NOTE:** \$88 processing fee applies only if the renewal request is done correctly, on time, and with the same hours, location, and lane requirements. **All fees are subject to change.**

### 1.2.6 How long does it take to process an STP?

It takes a minimum of two (2) working days for any STP request to be processed. Complicated requests may take longer. “Two working days” is defined as two business days between 8 a.m. and 5 p.m. during which the SFMTA is open for business (generally Monday through Friday, not including city holidays).

### 1.2.7 How long is an STP valid?

STPs are issued for no more than 30 calendar days, after which contractors are required to renew. To renew an STP, fax the most recent permit to SFMTA with the new date(s) and new time(s) requested. For faster processing, please do not “white-out” the old dates, times or permit numbers.

### 1.2.8 What is the maximum area that can be covered in an STP?

No permit shall be issued for any area greater than two (2) adjacent city blocks. Larger areas will require two (2) or more permits.

### **1.2.9 How do I set up a draw-down account?**

Contractors who apply for permits on a regular basis are encouraged to open a draw-down account with SFMTA. SFMTA will use this account to pay for every permit issued. This will eliminate trips to the SFMTA office just to pick up permits. The finished permits will be faxed to the Contractor. All permits have a cost listed on the bottom, so the permit serves as a receipt.

Each company gets only one account. Multiple sites under the same company have to use a single account. It's up to the Contractor's finance officer/accountant to maintain balances at each of the Contractor's sites. SFMTA will provide balance sheets via a return e-mail upon request. To open an account:

- Deposit a check, made out to "SFMTA", with "Special Traffic Permit Draw-Down" printed on it.
- Furnish SFMTA with the name of the financial officer/accountant.
- Provide officer's fax number, phone number, and e-mail address.

### **1.2.10 Why should I use the SFMTA striping drawings?**

The use of striping drawings (showing details and dimensions of lane line markings in the streets) is strongly recommended for processing permits and for planning work. For sites in blocks with complicated geometry (such as turn lanes, islands, bulb-outs, lane transitions, etc.) striping drawings are necessary to prepare a clear and concise application. Drawings can be picked up at or emailed from the SFMTA (1 South Van Ness Ave, 7<sup>th</sup> Floor, at Market Street) for a small fee. We can generally provide them within two (2) or three (3) working days. Requests can be made at the front counter, by emailing [trafficpermits@sfmta.com](mailto:trafficpermits@sfmta.com) or by contacting the permit engineer assigned to the project.

## **1.3 Other Permits**

In addition to the above permits, the Contractor is required to contact the following agencies for work on certain City Streets. Contact information can be found on Page 98, Appendix G.

### 1.3.1 California Department of Transportation (Caltrans)

Caltrans has jurisdiction over the state route system in San Francisco, including:

State Route	Local Designation, Limits
U.S. 101	Richardson Avenue, Lombard Street, Van Ness Avenue, So. Van Ness Avenue, Mission Street
S.R. 1	19 <sup>th</sup> Avenue, Crossover Drive, Park Presidio Blvd, Junipero Serra
S.R. 35	Skyline Boulevard, Sloat Boulevard
S.R. 82	San Jose Avenue
Freeways	All intersections involving freeway off-ramps and on-ramps

### 1.3.2 Port of San Francisco

The [Port of San Francisco \(http://www.sfgov.org/site/port\\_index.asp\)](http://www.sfgov.org/site/port_index.asp) has jurisdiction over the following streets:

- The Embarcadero
- Jefferson Street
- Illinois Street
- Other City streets, typically one block away from The Embarcadero

### 1.3.3 Recreation and Park Department

The [Recreation and Park Department \(http://www.sfgov.org/site/recpark\\_index.asp\)](http://www.sfgov.org/site/recpark_index.asp) have jurisdiction over the following streets:

- All Streets inside Golden Gate Park or McLaren Park
- Great Highway
- Other Streets

### 1.3.4 SFMTA Rail Clearance Permit

Contractor must obtain a clearance permit from SFMTA **Central Control at 415.759.4396** before performing any work within 48 inches of the outside edge of SFMTA track (the "Safety Envelope"). If workers will be within the Safety Envelope, the Contractor shall comply with and train its workers per the MTA Rail Safety Training program, in addition to obtaining a clearance permit. Contact the SFMTA Health and Safety Manager at 415.701.4679 for training requirements. For further information, see Section 7.4.

## **Section 2: WORKING ON STREETS WITH SPECIAL RESTRICTIONS**

Depending on the work site, there are certain restrictions that will apply. This section identifies streets where work is limited by time of day or day of the week. In some instances contractors may be restricted to working during evenings and weekends.

### **2.1 Streets of Major Traffic Importance (Appendix C, Table 1 and Appendix D, Map 1)**

Table 1 in Appendix C lists the City streets on which traffic lanes must be kept clear during certain times of the day, and the restricted hours for each block. No work is allowed during the hours specified in this table.

### **2.2 Restrictions in Certain Areas**

Streets with heavy traffic in the downtown area, streets with transit lines, streets that lead to Candlestick or AT&T Parks, and streets containing bicycle routes all have special restrictions. Contractor is responsible for complying with these restrictions.

#### **2.2.1 Area of Important Streets – Downtown (Appendix D, Map 1A)**

No construction activity is allowed within the bounded area from 7 a.m. to 9 a.m., and 3 p.m. to 7 p.m., Monday to Friday. This does not include alleys, where work is allowed.

#### **2.2.2 Restrictions for Moscone Convention Center Events (Appendix D, Map 2)**

The streets around Moscone Convention Center are subject to restricted construction hours during major events at the Center. No construction activity is allowed one hour before to one hour after these events.

#### **2.2.3 Ball Park Restrictions (Appendix D, Maps 3 and 4)**

The streets around AT&T Park are subject to restricted construction hours during major events at the ball parks. No construction activity is allowed from two (2) hours before to two (2) hours after these events.

## 2.2.4 Holiday Moratorium

No construction work is allowed in the public right of way from the day after Thanksgiving to January 1, inclusive, during the hours of 7 a.m. to 10 p.m. on the following streets:

During the specified period, in the areas described in Sections A and B below, all openings in the street and in the sidewalk must be closed by backfilling and paving or by plating over, providing safe and adequate passage for bicycles, vehicles and pedestrians. Work may be allowed between the hours of 10 p.m. and 7 a.m. as long as the proper night noise permit is obtained.

- **Any Block Within the Area Shown Below:** This area is bounded by Pine Street, Taylor Street, Market Street, 8<sup>th</sup> Street, Folsom Street, Fremont Street, and Front Street, inclusive.

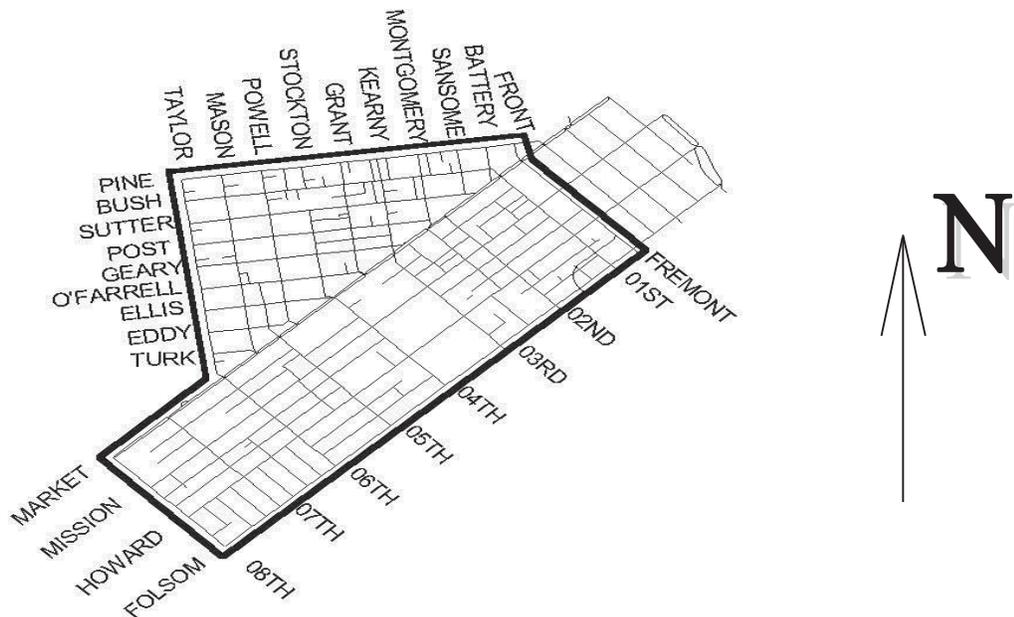


Figure 1: Streets where special construction hours are applied

- **Any Business Block in the City:** A business block is any City block where at least 50 percent of the frontage is devoted to business. Establishments in this category are retail stores, bars, restaurants, banks, service type businesses, non-residence type hotels, wholesale businesses or others as determined by the SFMTA.

The SFMTA will determine if a block is under moratorium on a case by case basis using data provided by the Contractor (or applicant). Data may be submitted to the SFMTA by completing the form "Holiday Moratorium – Business Block Map" found on Page 94, Appendix H. Please note that this form must be filled out completely, and include both sides of any block for

which a determination is being requested. The SFMTA will make a determination and return a completed copy of the form to the contractor. If the block is found not to be under moratorium, the contractor shall keep a copy of the form on site to show city staff (inspectors, engineers or enforcement personnel) that the SFMTA has determined that the block is not under moratorium. Please note that these forms are only valid for the year in which they were submitted.

To evaluate if an intersection is under moratorium (for work confined to the limits of an intersection), the Contractor will be required to fill out the form for each block adjoining the intersection.

- **Granting Waivers to the Moratorium:** Applicants who request a waiver must be prepared to detail the hours of operation of businesses and obtain written approval from property and business owners as deemed necessary by the SFMTA. Please speak to the SFMTA prior to contacting the public about a moratorium waiver.

## **2.2.5 Major Muni Routes (Unclog the Streets)**

In order to facilitate traffic flow for Muni vehicles and for the general public, all construction activities affecting moving lanes (including tow-away zones) on any Major Muni Route (see table below) shall stop from 4 p.m. to 7 p.m., Monday through Friday.

Furthermore, all construction activities along any Major Muni Route that is on a business block (see Section 2.2.4.A) or along any Major Muni Route that is in the Area of Important Streets (see Appendix D, Map 1A), shall stop from 7 a.m. to 9 a.m. and 3 p.m. to 7 p.m., Monday through Friday. This does not include alleys, where work is allowed.

The Contractor must become familiar with the routes of the coach lines operating within the work area. For further information on Muni routes or schedules, visit the [SFMTA's website at www.sfmta.com](http://www.sfmta.com) or call SFMTA at 311.

**Table 3: Major Muni Routes**

<b>Muni Line</b>	<b>Name</b>
1	California
2	Clement
5	Fulton
9	San Bruno
10	Townsend
11X	Bayshore Express
12	Folsom/Pacific
14	Mission
19	Polk
21	Hayes
22	Fillmore
24	Divisadero
28	19 <sup>th</sup> Avenue
29	Sunset
30	Stockton
31	Balboa
38	Geary
41	Union
43	Masonic
44	O'Shaughnessy
45	Union-Stockton
47	Van Ness
48	Quintara
49	Van Ness-Mission
C	California Cable Car
PH	Powell-Hyde Cable Car
PM	Powell-Mason Cable Car
71	Haight-Noriega
F	Market
J	Church
K	Ingleside
L	Taraval
M	Ocean View
N	Judah
T	Third

### Section 3: LANE CLOSURE REQUIREMENTS

#### 3.1 Closing a Lane

The Contractor must properly plan, use, place and maintain traffic control devices while in use at the construction site. In general, blocking a traffic lane requires the use of a flashing arrow board. Solar flashing arrow boards are required in residential areas, especially at night, to minimize noise problems. In certain lane closures, the use of high-level warning flags along with other devices is acceptable if installed in accordance with the provisions set forth in the California MUTCD issued by the California Department of Transportation. Typical lane closure plans are presented in Appendix F.

#### 3.2 Traffic Lane Requirements

The Contractor shall provide the required number of through traffic lanes according to the table and corresponding notes below.

**Table 4: Traffic Lane Requirements Per Direction <sup>A</sup>**

<b>Existing No. of Through Traffic Lanes</b>	<b>Minimum No. of Through Traffic Lanes To Remain Open <sup>B,C,D,G</sup></b>
1	1 <sup>E</sup>
2	1 <sup>F</sup>
3	2
4	2
5	3
6	4

Notes:

- A. For two-way streets, Contractor shall consider each direction separately. For example, a four-lane roadway with two lanes in each direction shall provide a minimum of one lane in each direction.
- B. The minimum width of a traffic lane is 12 feet, clear of any obstructions, including traffic cones or delineators.
- C. In addition to maintaining the required number of through lanes per the above table, Contractor shall provide a separate left (or right) turn lane if there is an existing left (or right) turn lane.
- D. Contractor is responsible for ensuring that the lanes provided allow Muni trolley coaches to reach the overhead wires at all times (see Section 7.2 for further details).

- E. Completely closing any direction of traffic is generally not allowed. This includes any plan which allows one lane to be used for two directions of traffic (“Two-Way Flag Control”). An STP is required to use “Two-Way Flag Control.”
- F. If work occurs at or within 100 feet of an intersection on a two-way street, the Contractor **shall** request an STP to prohibit left turns at the intersection. This applies where two lanes are reduced to one and through vehicles cannot physically pass a left-turning vehicle.
- G. The complete closure of a roadway is not permitted without a valid Special Traffic Permit or as part of a SFMTA approved traffic routing plan.

### **3.3 Temporary Traffic Lanes**

Room for a traffic lane(s) may be made available by temporarily prohibiting parking. Traffic lanes must be at least 10 feet wide and provide enough transition before the lane begins and after the lane ends.

### **3.4 Flag Control**

Flaggers may be required by Contract Specifications or an STP. Flaggers are also required where workers or equipment temporarily block a traffic lane for access into and out of a construction area.

The following rules apply to flaggers:

- Flaggers must be properly equipped with a Type II vest (daytime) or Type III (nighttime) and a sign paddle.
- Flaggers must be certified and must have their certification card at all times.
- When an STP or Contract Specification allows the use of one lane for two directions of traffic (i.e., Two-Way Flag Control), a minimum of two (2) flaggers are required.
- Police Officers may be hired to provide flag control (see Section 10 for further details).

### **3.5 Coordination with Others**

In order to ensure that the traffic lanes provided are adequate and continuous, only one contractor at a time is allowed to work on any one block. If a second contractor is planning to work on that block or on an adjacent block, then the second contractor shall obtain an STP before starting any work. Moreover, a contractor is not allowed to work within a block of a project under City Contract without the approval of the Resident Engineer of the subject contract, and an STP.

## Section 4: PARKING REMOVAL

### 4.1 Register with the Tow-Desk

To clear the parking lane of parked cars for any construction work, the Contractor is required to post “Tow-Away No Stopping” signs. These signs must first be registered with the SFMTA Tow-Desk through 311, by calling 415.701.2311, at least 72 hours in advance of the effective date and time. Once registered, the signs shall be posted at least 72 hours in advance of the effective date and time in order to give the public sufficient notice.

Construction tow-away zones can be registered for a maximum of one month at a time. If additional time is needed to complete construction, the Contractor may request a time extension by calling the Tow-Desk at 415.554.9928. Approval of a time extension must be obtained and new signs must be posted at least 72 hours prior to the expiration of the previously registered period.

Parking must not be prohibited where there is no construction activity. Construction tow-away zones are for construction activities only, such as loading, unloading, storage of materials, special equipment occupancy, etc. These zones do **NOT** apply to vehicles not actively involved in construction, including all private vehicles and any other company vehicle.

Workers' parking is not allowed within a construction tow-away zone during the effective hours of the zone. Any infractions of or deviations from the regulations listed in this section may be grounds for revocation of the tow-away zones.

### 4.2 “Tow-Away No Stopping” Signs for Construction Zones

Tow-away signs for construction zones shall conform in all respects with the provisions set forth in the San Francisco Transportation Code. A copy of various code sections are provided on Page 31, Appendix B for reference.

### 4.3 Posting Procedures

Tow-away signs for construction zones shall be posted in accordance with the provisions set forth in the San Francisco Transportation Code Division I (see Page 31, Appendix B), **and** in accordance with the following criteria:

- Signs shall be posted only within the limits of construction.
- Signs shall be posted every 20 linear feet of occupied space with at least **one sign at each end** of the occupied space.
- Place signs on wood or aluminum backing or approved equal.

- Mount the signs securely to existing poles, posts, on Type II barricades per Caltrans specifications, or on construction fences.
- The Contractor shall maintain the signs on a continuous basis and shall replace damaged or missing signs daily.
- The Contractor shall remove the signs and mounting materials immediately after construction has been completed.

#### 4.4 Where to Get the Signs

The city does not provide signs. Please consult the local telephone directory for sign distributors and/or construction supply companies.

### Section 5: SIDEWALK CLOSURES

#### 5.1 Clear Path of Travel

- A 6-foot wide clear path of travel is desirable. At a minimum, Contractor **shall** provide a **4-foot wide** clear path of travel on any sidewalk at all times. More width may be required by DPW or the SFMTA in areas where heavier pedestrian volumes are expected.
- Any sidewalk closure, walkway closure or any other work that does not provide a continuous 4-foot wide clear path of travel on the same side of the street shall require a Special Traffic Permit (STP).
- Any crosswalk closure shall require an STP. Requests for an STP to close a crosswalk **may** be granted, and generally, only one crosswalk at an intersection is allowed to be closed at a time.
- The STP will require that the Contractor post and maintain the appropriate pedestrian signs, including but not limited to “SIDEWALK CLOSED AHEAD/USE OTHER SIDE”, “SIDEWALK CLOSED”, “NO PEDESTRIAN CROSSING” and “USE ← or → CROSSWALK” (see Signs in Appendix E).

#### 5.2 Sidewalk Closure Guidelines

- Requests for an STP to close a sidewalk in the middle of the block are generally not accepted because this results in pedestrians having to walk around the work site, usually out into the street, to continue down the sidewalk.
- Requests for an STP to close the whole block **may** be accepted, but only if the Contractor’s frontage occupies the entire block.

- Requests for an STP to close the sidewalk on a minor alley **may** be granted.
- Requests for an STP to close a typical sidewalk **may** be considered by the SFMTA if off-duty SFPD officers are provided to direct pedestrians back to the last safe crossing, and proper signage is installed.
- Contractors may also route pedestrians into the parking strip provided that a temporary walkway is set up per DPW's Barricade Standards. The parking strip cannot be used as a pedestrian walkway during the hours that tow-away is in effect (see Appendix F for Typical Applications).

## **Section 6: CONSTRUCTION ZONE STANDARDS**

Contractor is responsible for maintaining a safe work area after working hours.

### **6.1 Maintaining Traffic**

#### **6.1.1 Tow-Away Lanes**

Contractor shall be responsible for keeping "Tow-Away No Stopping" traffic lanes clear during the effective hours posted.

#### **6.1.2 Metal Plating**

Any temporary metal plating and metal bridging shall be coated with a non-skid and rust inhibitive product. Examples of non-skid metal plating are surfaces with waffle-patterns or right angle undulations. Plating shall be installed with no edges or corners sticking up and with no bouncing or shifting. Plates shall be secured against shifting by tack welding, or fasteners. Any non-skid product shall have a friction factor of 0.35 or greater as measured by the California Department of Transportation Test 342. Refer to section 2.4.53 of the San Francisco Public Works Code for further requirements.

#### **6.1.3 Transitioning (Ramping)**

Whenever the grade difference between the existing pavement and the excavated area is greater than  $\frac{3}{4}$  inch, Contractor shall provide longitudinal and transverse transitions prior to opening the lanes to traffic. The maximum slope on these transitions shall be 1:18. Transitions shall be installed with hot asphalt concrete. This section applies to newly constructed roadway base, manholes, metal plating, bridging, etc.

#### **6.1.4 Cyclone Fences**

Bases of temporary cyclone fences shall not extend over any adjacent traffic, bicycle lane, or pedestrian path of travel.

## 6.2 Pavement Markings

### 6.2.1 Temporary Pavement Markings

Temporary markers and/or markings shall be installed by the Contractor for any existing crosswalk line, limit line, arrow, and other legend or traffic lane line removed or damaged by the work activity prior to the end of the work shift and before opening the lanes for traffic. Temporary pavement markers shall be any of the following types and markers shall be installed in accordance with the following criteria:

- Davidson Plastic                      Model TOM (Standard) with Reflexite PC-1000 or WZ with Reflexite AC-1,000 sheeting
- Stimsonite                              Model 300 “Temporary Overlay Markers”
- Hi-way Safety Inc.                    Model 1280 / 1281 with Reflexite PC 1,000

Pavement markings shall be any of the following types and tape pavement markings shall be installed in accordance with the following criteria:

Types of Temporary Pavement Markings:

- Swarco                                  Visa-Line
- Brite-Line                              Series 100

**Table 5:** Requirements for Placing Temporary Pavement Markings

<b>Existing Striping</b>	<b>Temporary Striping</b>
12-inch crosswalk line	3 – 4 inch white stripes appearing as 1– 12 inch stripe
8-inch solid line	1 – 4 inch white solid stripe
4-inch broken white	1 – 4 inch white stripe (typically 7’ long, 17’ gaps*)
4-inch broken yellow	1 – 4 inch yellow stripe (typically 7’ long, 17’ gaps*)
Double yellow	2 – 4 inch yellow solid stripes 3 inches apart

\* Consult Chapter 3 of the California MUTCD for further details. The dimensions for broken lines apply for streets with posted speed limits of 35 MPH or less. For speed limits of 40 MPH or more, the dimensions are for 12’ long stripes with 36’ gaps.

### 6.2.2 Permanent Pavement Marking Restoration

The Contractor shall deliver one set of the excavation plans to the San Francisco Municipal Transportation Agency at 1 South Van Ness Avenue, 7<sup>th</sup> Floor, at the same time application is made for the Excavation permit from SFPW-BSM. The SFMTA shall send an estimate of the cost of restoring permanent pavement

markings to the Contractor. The Contractor shall send a check for the estimated cost to the SFMTA within 15 working days. The Contractor shall email confirmation to [trafficpermits@sfmta.com](mailto:trafficpermits@sfmta.com) when the paving has been accepted by the SFPW-BSM Inspector. The SFMTA Paint Shop will install the permanent pavement markings.

### **6.2.3 Muni Markings**

The Contractor is responsible for taking inventory of all Muni markings in the work area before doing any work. Markings include yellow “Coach Stop” bars painted on the pavement, yellow “pole stop” bands painted on the sign poles or utility poles, and yellow “breaker marking” dots painted on the pavement. If any Muni marking is damaged or paved over, the Contractor shall immediately notify Muni Service Planning at 415.701.4375 so that SFMTA’s Paint Shop will restore the markings. If any pole containing a yellow “pole stop” band is removed from its location, the Contractor shall not install that same pole at a different location without first deleting the yellow band. If any pole containing a yellow “pole stop” band is replaced with a new pole, the Contractor shall notify Muni Service Planning immediately after the new pole is installed.

## **Section 7: TRANSIT OPERATIONS**

Contractor shall not delay the operation of any mass transit vehicle at any time, including all Municipal Railway (Muni) vehicles, Golden Gate Transit buses, SamTrans buses, etc. In particular, the Contractor must familiarize himself/herself with the routes of Muni transit lines that operate within the limits of the construction.

Contractor must obtain a clearance permit from SFMTA Central Control at 415.759.4396 **before** performing any work within 48 inches of the outside edge of SFMTA track (the “Safety Envelope”). If workers will be within the Safety Envelope, the Contractor shall comply with and train its workers per the SFMTA Rail Safety Training program, in addition to obtaining a clearance permit. Contact the SFMTA Health and Safety Manager at 415. 701.4679 for training requirements.

### **7.1 Bus Stops**

- The Contractor shall not block or impede bus movements into and out of any bus stop, including any bus zone, boarding island, bus bulb, and flag stop.
- The Contractor shall request authorization from the Superintendent of Special Events and Construction by emailing [constructionrequest@sfmta.com](mailto:constructionrequest@sfmta.com) for any work that may interfere with any existing passenger loading and unloading operation at least ten 10 days in advance of said work.
- In certain cases, SFMTA may authorize the temporary relocation of bus zones if requested at least 10 days in advance. Fees may apply. If tow-away is required to reserve space for a relocated bus zone, a Special Traffic Permit

will be required. If a bus stop is required to be relocated, SFMTA may require the Contractor to temporarily (if adequate space is available) install a temporary bench for the convenience of elderly and disabled passengers.

- The Contractor shall provide and continuously maintain at least one sign at any bus stop that SFMTA has authorized to be closed or relocated, and at the new bus stop location. Additional signs in language other than English may be required if translation is deemed necessary. The signs are as shown in the Appendix E. The SFMTA Inspector will supply the exact wording and location of these signs.
- Unauthorized bus zone relocations or any other unauthorized use of the temporary bus stop signs will result in fines of up to \$5,000 per incident.
- Contractor shall obtain pre-approval of a site plan by SFMTA's Bus Stop Coordinator & Accessibility Section (415.701.4485) for any permanent change that will impact Muni passenger loading/unloading operations, especially the deployment of the wheelchair lift.

## **7.2 Overhead Wires**

Contractor is responsible for ensuring that trolley buses reach the overhead trolley wires when going around the work area.

- Muni overhead electric wires carry a minimum of 600 volts DC and have 17.6 feet +/- vertical clearance from the roadway.
- CAL OSHA regulations require that any boom type equipment that moves vertically must maintain a 10 feet radial clearance and any other equipment must maintain a six (6) foot clearance from Muni overhead wires.
- The Contractor must adapt the Contractor's method and equipment to this condition, and must take precautions against accidents and damage to the overhead wires and feeder cables when performing paving, base repair, sewer installation works with lines and feeder energized.
- The lanes made available for traffic shall be located so as to include an adequate and allowable travel path for the coach lines. The extreme touring range of the centerline of a trolley coach is 10 feet from the centerline of the trolley wires. The Contractor shall provide a 45-foot turning radius for Municipal Railway vehicles.

## **7.3 Passenger Facilities**

- Passenger Shelters – Contractor shall contact SFMTA’s Passenger Shelter provider (Gail Stein at 415.646.2308) to coordinate the removal and reinstallation of any passenger shelter that is impacted by construction activities. Contractor shall be responsible for restoration of electrical power, telephone service and the sidewalk to pre-construction condition.
- Bus Stop Signage – Contractor shall contact the SFMTA Sign Shop at 415.554.9785 to coordinate the removal and reinstallation of any Muni bus stop signs impacted by construction activities.

#### **7.4 Tracks**

If any work is performed within 62 inches of the outside edge of light rail track (the “safety envelope”), the Contractor shall apply for and obtain a clearance permit from SFMTA Central Control at 415.759.4396 before starting any work.

- If workers will be within the safety envelope, the Contractor shall comply with and train its workers per the SFMTA Rail Safety Training program before starting any work, in addition to obtaining a clearance permit. Contact the MTA Health and Safety manager at 415.701.4679 for training requirements.
- Rail Clearance Permit applications must be submitted by the first or third Wednesday of the month prior to the requested work week (starts Saturday) or at least 72 hours in advance of the date needed. The permits are valid up to one week so the Contractor must apply for the permit weekly. The Rail Clearance Permit Application is located in Appendix H.
- After a valid Clearance Permit is obtained, the Contractor shall call Muni Central Control at 415.759.4321 to inform Central Control every day before work begins and when the work has been completed for that day.
- The Contractor shall attend Rail Clearance meetings to provide progress updates to SFMTA staff and work out any issues regarding working near the Muni Rails. Meetings occur twice every month. Contact SFMTA Central Control for meeting dates and locations.

#### **Section 8: SCHOOL ZONES**

Additional care should be taken to ensure safety of school children and their “safe passage” to and from school sites. This includes all school crossings and all streets within posted school zones. This is particularly critical during the arrival time and departure times at a construction-impacted school site/zone. Additional flaggers may be required for this purpose.

The Contractor shall give advance notice of construction activities to the school principal and administration at any adjacent school. The Contractor is responsible for making

arrangements with the school officials to maintain all school bus loading zones and passenger loading zones.

## **Section 9: BICYCLE ROUTES**

### **9.1 Bike Paths (Class 1)**

Construction on off-street bike paths shall provide an alternate route for bicyclists either by use of an alternate paved path or a temporary bike lane on the street. Any re-routing of bicyclists from an off-street path requires a special traffic permit (STP).

### **9.2 Bike Lanes (Class 2)**

Contractor shall maintain all existing bike lanes. During construction, temporary bike lanes may be delineated by cones but at no time shall the clear width of a bike lane be less than 5 feet. Any bike lane that is effectively narrowed below 5 feet is considered a bike lane closure.

The Contractor shall maintain a clear and clean path of travel for bicyclists at all times. For Further instructions on housekeeping requirements, refer to San Francisco Public Works Municipal Code.

Bike lanes may be closed but only with an approved Special Traffic Permit or City Contract Specifications. An approved STP may require that additional bike signs such as “Bicyclists Allowed Use of Full Lane” or “Bicycle Route Detour” signs be posted as part of the conditions of the permit (see signs in Appendix E).

### **9.3 Bike Routes (Class 3)**

Certain streets on the bicycle route network may not have painted bicycle lanes but are nonetheless important because they provide connectivity to the rest of the network. In particular some bike routes allow bicycles to travel side-by-side with cars in the same lane. These streets are identified as having wide right-hand curb lanes. A curb lane is measured from the curb to the nearest lane line. Wide curb lanes are those that are 22 feet or more in width on streets with parking, or 14 feet or more on streets without parking.

The Contractor should maintain these widths wherever possible. If a wide curb lane will be affected during construction, the Contractor shall post a “Bicycles May Use Full Lane” (R4-11) sign at the beginning of the block, and / or a “Bicycle Route Detour” sign with the legend “⚡ BIKE LANE” at the point where there is room enough to provide a separate bike lane see signs in Appendix E).

### **9.4 Closure of Bike Routes**

A Special Traffic Permit is required for any street closure or the closure of one direction

of a street. The STP may require that a Bicycle Route Detour be provided and that additional bike signs such as “Bicyclists Allowed Use of Full Lane” or “Bicycle Route Detour” signs be posted as a permit condition (see signs in Appendix E)

## **Section 10: SAN FRANCISCO POLICE DEPARTMENT OFFICERS (SFPD)**

Traffic Control by Uniformed San Francisco Police Officers assigned to work 10B Construction (referred to herein as officers) may be required under certain circumstances, such as a Special Traffic Permit or Contract specifications.

### **10.1 Duties of Officers**

- Direct vehicular and pedestrian traffic
- Cite motorists or pedestrians violating traffic regulations
- Maintain contractor compliance with STP conditions
- Enforce traffic regulations
- Facilitate safe paths of travel
- Other traffic control duties as directed by SFMTA

For further reference, duties of San Francisco police officers will be specified in the Special Traffic Permit or in the city contract.

### **10.2 Requesting Officers**

The Contractor shall coordinate deployment of officers with the San Francisco Police District Construction Coordinator for the area where construction is taking place (see Page 58, Appendix D). The Contractor shall make a deposit to the SFPD in the amount of \$2,000 unless otherwise specified by the SFPD. The Contractor shall pay SFPD each invoice within 30 calendar days of the invoice date.

### **10.3 Officer Working Hours**

The officers shall be paid a minimum of four hours per day. If the number of work hours exceeds four hours, the officers shall be paid for one additional hour for travel time. For a twelve-hour shift, the officers shall be paid thirteen hours per ordinance.

### **10.4 Notification and Restrictions**

The Contractor shall notify the San Francisco Police District Construction Coordinator Officer Edwin Gaffud (cell) 415-215-5315 [edwin.gaffud@sfgov.org](mailto:edwin.gaffud@sfgov.org) or Sgt. Michael Radanovich (cell) 415-837-7281 [michael.radanovich@sfgov.org](mailto:michael.radanovich@sfgov.org) regarding the schedule and number of officers required at least 4 calendar days in advance of the scheduled date. The minimum time to cancel is 24 hours.

### **10.5 Furnishing Permits to Officers**

Each day, Contractor shall furnish each officer a copy of the STP (if one is issued) before beginning work at the site to ensure that the officers are familiar with the conditions on the permit. Failure to furnish all officers copies of the permit may result in the officers canceling the job, thereby placing the contractor in violation of the permit.

## **10.6 Officer Reassignment**

SFPD reserves the right to re-assign officers to other duties, in case of emergencies. SFPD may adjust the number of officers at a site based on site conditions.

## **Section 11: DETECTORS IN CITY STREETS**

### **11.1 Vehicle Detectors in the Work Area**

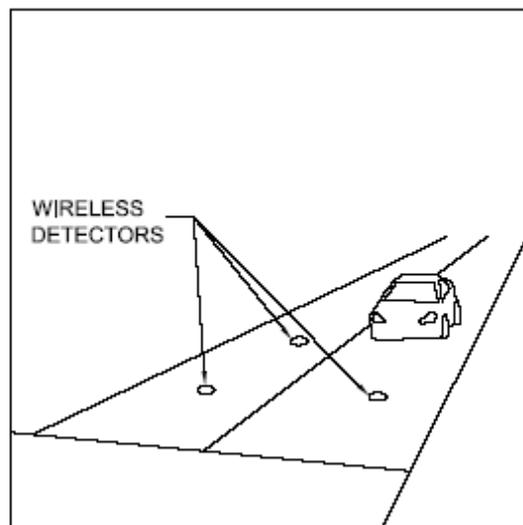
The SFMTA maintains vehicular detector loops at certain signalized intersections. Detector loops are usually marked with rectangular or circular saw-cuts in the pavement, just before the crosswalk line. The loops are usually located within the first four (4) inches of the roadway surface. The Contractor is responsible for making sure that these facilities are not damaged. If these loops are within the work area and could be damaged or affected, the Contractor should follow the procedure below:

- The Contractor shall notify SFMTA Signal Shop at 415.550.2736, 48 hours *before* starting work.
- The Contractor shall obtain a copy of the loop detector plan from SFMTA by emailing [trafficpermits@sfmta.com](mailto:trafficpermits@sfmta.com)
- At the Contractor's expense, the SFMTA Signal Shop will disconnect wired vehicle detectors prior to the Contractor starting work
- The Contractor shall repair and restore the wired loops, at the Contractor's expense, within seven days of roadway restoration at the site.
- The Contractor shall notify the SFMTA Signal Shop as soon as the wired loop is re-installed for inspection.

### **11.2 Vehicle Sensors in the Work Area**

The SFMTA maintains wireless vehicular sensors at certain signalized intersections. Sensors are shown on the pavement by circular black epoxy dots. The Contractor is responsible for making sure that these facilities are not damaged. If these sensors are within the work area and could be damaged or affected, the Contractor should follow the procedure below:

- The Contractor shall notify SFMTA Signal Shop at 415.550.2736, 48 hours *before* starting work.
- The Contractor shall obtain a copy of the wireless/loop detector plan from SFMTA by emailing [trafficpermits@sfmta.com](mailto:trafficpermits@sfmta.com)
- At the Contractor's expense, the SFMTA Signal Shop will remove wireless vehicle detectors prior to the Contractor starting work and re-install the detectors after work is completed.
- Wireless detectors shall never be punctured, cut, ground, or removed from solid core. These actions may result in leakage or release of battery contents, explosion, or fire. [Additional safety information can be found at www.able-battery.com/products](http://www.able-battery.com/products).



**Figure 2: Wireless Detector Schematic**

In the field, detectors look like black epoxy dots, approximately four (4) inches in diameter. The Contractor shall notify the SFMTA Signal Shop if it is suspected a detector could be within the work area.

### **11.3 Bicycle Counter Detectors in the Work Area**

SFMTA maintains automatic bicycle counter loops on certain streets. These loops are marked with diamond saw-cuts in the pavement and are in bike lanes at mid-block and intersection locations. The wired loop counters are installed one (1) to three (3) inches below the road surface.

If these detectors are located within the work area and could be subjected to damage by

construction, the Contractor is responsible for coordinating their removal with SFMTA. The Contractor should follow the procedure below:

- A. Contractor shall notify SFMTA via email at [bikecounters@sfmta.com](mailto:bikecounters@sfmta.com), two (2) working days before starting work.
- B. The Contractor shall deliver one set of the excavation plans to the San Francisco Municipal Transportation Agency at 1 South Van Ness Avenue, 7<sup>th</sup> Floor at least two (2) working days before starting work.
- C. The SFMTA shall send an estimate of the cost of restoring the bike detectors to the Contractor. The Contractor shall send a check for the estimated cost to the SFMTA within 15 working days.
- D. The Contractor shall send confirmation to the SFMTA Livable Streets when the paving has been accepted by the SFPW-BSM Inspector.

#### **11.4 SF Park Parking Sensors in the Work Area**

If these parking sensors are located within the work area and could be subjected to damage by the construction, the Contractor is responsible for coordinating their removal with SF Park (415.701.4331). The Contractor should follow the procedure below:

- Contractor shall notify SF Park at 415.701.4331 at least five (5) working days before starting work.
- At SF Park's expense, the sensors will be removed and stored prior to the Contractor starting work and reinstall the detectors after the work is completed.
- In the event the Contractor removes or damages the sensors or associated equipment during construction, the Contractor shall notify SF Park and pay for all associated costs for removal, purchase, and installation of the SF Park system's sensors and associated equipment within the work area.

**11.5 Other Traffic-Related Devices in the Work Area**

In addition to having vehicle loop detectors for signals, some intersections in the City have red light cameras or in-pavement flashing devices. The Contractor should follow the procedures described in Section 11.1 “Vehicular Detectors in the Work Area” when encountering these conditions

**Section 12: EMERGENCY PROCEDURE**

If an emergency arises such as a sewer collapse, essential service interruption or a water main break, the Contractor may deviate from the regulations in this manual. When the Contractor suddenly and unexpectedly finds it necessary to close lanes or walkways to access facilities to preserve life or property or to restore interrupted essential services, the Contractor may begin work before obtaining the necessary permit(s). This may require working through the peak traffic hours in the street. The Contractor may also be required to pay for Police Officers and/or Parking Control Officers in order to maintain any emergency road closure(s).

If the emergency happens during normal business hours the Contractor shall immediately notify the City Agencies listed below and apply for the necessary permit(s) and a Special Traffic Permit within four (4) hours. If the emergency happens outside of normal business hours the Contractor shall immediately notify the City Agencies listed below, and apply for the necessary permit(s) and a Special Traffic Permit within 4 hours after City offices next open if the work will continue into the next business day.

**IN CASE OF EMERGENCY, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE FOLLOWING CITY AGENCIES:**

<b>Agency</b>	<b>Phone Number/Email</b>
<u>SFMTA</u>	
Parking Enforcement Dispatch	415.553.1200
Sustainable Streets Division	<a href="mailto:trafficpermits@sfmta.com">trafficpermits@sfmta.com</a>
SFMTA Street Supervision	415.554.9286
SFMTA Central Control	415.759.4361
<u>San Francisco Public Works (SFPW)</u>	
Bureau of Street-Use and Mapping (BSM)	415.554.5810
<u>San Francisco Police Department</u>	
SFPD Dispatch Center	415.553.0123

## REFERENCES

1. ["California Manual on Uniform Traffic Control Devices \(CA MUTCD\)," State of California, Department of Transportation](http://www.dot.ca.gov/hq/traffops/signtech/mutcdsupp)  
<http://www.dot.ca.gov/hq/traffops/signtech/mutcdsupp>
2. "Regulations for Excavating in Streets of San Francisco," The San Francisco Public Works, Bureau of Street-use and Mapping, Street Construction Coordination Center, 1155 Market Street, 3<sup>rd</sup> Floor San Francisco, CA 94103; Ph: 415.554.5810.

## ACKNOWLEDGMENTS

The San Francisco Municipal Transportation Agency would like to thank the San Francisco County Transportation Authority and the San Francisco Public Works for their cooperation and assistance.

**APPENDIX A**

**CONTRACTOR REGISTRATION, MINOR INTERMITENT OBSTRUCTIONS, AND  
DOUBLE PARKING**



## A.1 GENERAL

This section of the Blue Book provides only general guidance. Site and project specific information should be addressed at registration meetings because there will be many instances in which engineering judgment will be required to supplement this guidance. Contractors, utilities, and public agencies (hereafter all referred to as builders) should still consult the Blue Book and are encouraged to contact SFMTA staff for guidance when working in the public right of way.

## A.2 REGISTRATION

SFMTA will encourage Builders who are **working in the public right of way** to register a project with SFMTA, preferably before construction begins. The intent is to form a dialogue and working relationship to further balance the needs of all street users and work within the particular restrictions of each particular building location (few sites can be accommodated with identical traffic control set-ups) and establish clear guidance for those working in San Francisco streets.

The registration process consists of the following:

- Builder shall complete a registration form with the following information:
  - Provide scope, location, and duration
  - Provide contact information for key project staff that can address complaints and take corrective action as needed
- SFMTA staff will meet with the Builder to
  - Verify or provide familiarity with the Blue Book and other relevant guidance and regulations
  - Identify access issues and potential impediments
  - Prepare blanket special traffic permits to accommodate minor intermittent traffic *obstructions* (see details below) if applicable and feasible

## A.3 REGISTRATION FORM

This form is to be completed by the builder and kept on file by SFMTA for the duration of the project. SFMTA will establish a method to update the project registration information in order to account for changes in staffing, sub-contractors, etc. The form will enable SFMTA to identify relevant project decision makers and contacts and ensure that the actual responsible persons are notified when situations and problems arise as well as other information sharing purposes. Much of the required information can be found on the builder's street space permit and/or building permits, so the builder is encouraged to bring these documents to the meeting. Specifically, the form will identify:

- Scope of work
- The location of the project

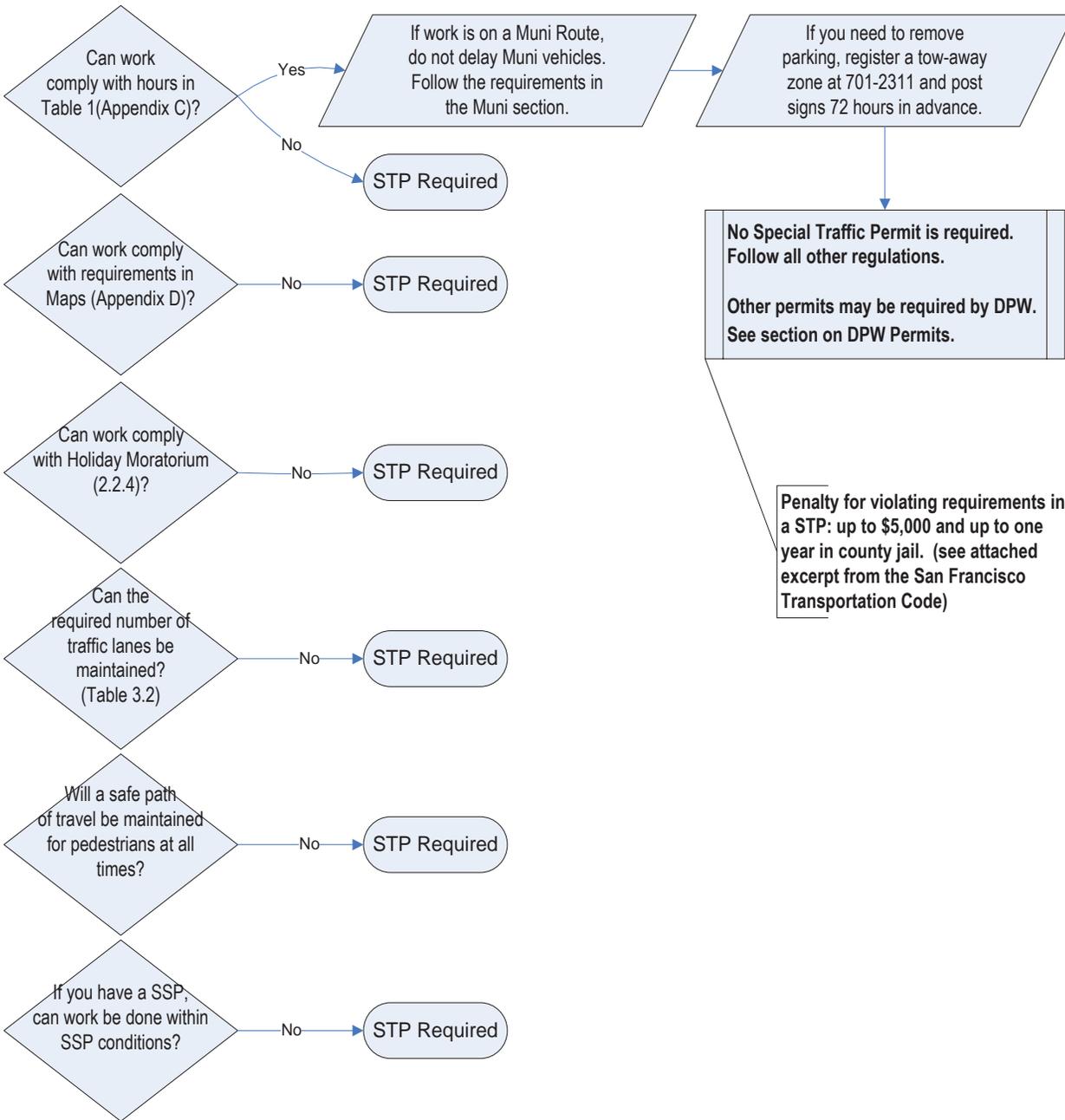
- Approximate start and end dates for the project
- Approximate daily work hours
- Contact information for (as applicable):
  - The general contractor (GC)
  - Other agents of the project sponsor that are on the project site and able to quickly take corrective action (the “Project Sponsor” is typically the general contractor, utility, public agency or the entity that submitted the project’s plans to the San Francisco Planning Department)
  - All other entities, officers, contractors, subcontractor and agents of the project sponsor that work on the private property of the project or within the conditions, restrictions and terms of any permit issued for the project are considered as working on the project/part of the project.
  - Primary contact shall be reachable 24 hours a day, seven (7) days a week.
- Contact information for all the various permits and permittees under the project sponsor working in the public right of way by SFFD, SFPW, DBI and SFMTA.

**APPENDIX B**

**SPECIAL TRAFFIC PERMIT QUICK GUIDE AND TRANSPORTATION CODE**



## Quick Guide: Is a Special Traffic Permit Required for My Work?



Special Traffic Permit Quick Guide: For further information please email SFMTA at [trafficpermits@sfmta.com](mailto:trafficpermits@sfmta.com)

**SAN FRANCISCO TRANSPORTATION CODE  
RELEVANT SECTIONS PERTAINING TO SPECIAL TRAFFIC PERMITS**

Note: Code sections are provided here for reference only and have been condensed. They are subject to change. The Contractor must be familiar with the latest Codes. [The most up-to-date versions of these and other Code Sections are available on the City and County of San Francisco website at http://www.sfgov.org/.](http://www.sfgov.org/)

**Division I**

**SEC. 7.2. - INFRACTIONS.**

In addition to public offenses created by the Vehicle Code, the actions listed in this Section 7.2 are prohibited, and each and every violation of a prohibition listed below shall be an infraction, except as otherwise provided in: (a) this Code; or (b) the Vehicle Code; or (c) as necessary to comply with the direction of a Police Officer or Parking Control Officer; or (d) with respect to a Municipal Parking Facility, upon the direction of an authorized parking attendant; or (e) with respect to any other Public Property, except with the permission of, and subject to such conditions and regulations as are imposed by the agency that owns the property that are available for public inspection at the agency's offices.

**SEC. 7.2.45. - DIVERTING OF TRAFFIC AND TEMPORARY PARKING RESTRICTIONS**

To Park a vehicle in violation of a temporary Parking prohibition or restriction posted on any street or area, or to disobey the lawful order of any Police Officer or Parking Control Officer directing the removal or diversion of a vehicle from any street or area. (33(c))

**SEC. 7.2.46. - TEMPORARY PARKING AND TRAFFIC RESTRICTIONS**

To violate any temporary Parking or traffic restriction authorized by the SFMTA for any public or private construction work, or that is posted pursuant to Section 3.4. (33.1)

**SEC. 7.2.70. - OBSTRUCTING TRAFFIC-VEHICLE.**

To Park a vehicle in a manner to obstruct the flow of pedestrian or vehicular traffic. (70, 71b)

**SEC. 7.2.71. - OBSTRUCTING TRAFFIC - WITHOUT PERMIT; VIOLATION OF TERMS OF PERMIT; VIOLATION OF DIVISION II, SECTION 903.**

To obstruct traffic without a Special Traffic Permit, obstruct traffic in violation of the terms of a Special Traffic Permit, or violate the regulations set forth in Division II, Section 903. Each hour during which the obstruction continues shall constitute a separate offense. The first, and each subsequent offense within a one year period, shall result in a penalty set forth in Division II, Section 302.

**SEC. 7.3.3. OBSTRUCTING TRAFFIC.**

To obstruct traffic four or more times within one year without a Special Traffic Permit, or violate the terms of a Special Traffic Permit or the regulations set forth in Division II, Section 903. Each hour during which the obstruction continues shall constitute a separate offense. Any person and/or business entity violating this section may be deemed guilty of a misdemeanor and upon conviction thereof shall be punished by a fine of at least \$1,000, or imprisonment in the county jail not exceeding six months, or both. (194.3)

## Division II

### **SEC. 306. - OBSTRUCTING TRAFFIC—WITHOUT PERMIT; VIOLATION OF TERMS OF PERMIT; VIOLATION OF DIVISION II, SECTION 903—ADMINISTRATIVE PENALTIES.**

(a)

Any person who violates Division I, Section 7.2.71 may be subject to the issuance of a citation and imposition of an administrative penalty. The designated officer or employee may issue an admonishment or direct corrective action in lieu of the issuance of a citation.

(b)

Administrative penalties shall not exceed \$500 for each offense.

(c)

The Director of Transportation is authorized to designate officers or employees of the Municipal Transportation Agency to enforce Division I, Section 7.2.71. Any officer or employee so designated is hereby authorized to issue citations imposing administrative penalties for violations of Division I, Section 7.2.71.

### **SEC. 307. - PROCEDURE FOR ASSESSMENT AND COLLECTION OF ADMINISTRATIVE PENALTIES FOR SECTION 306 VIOLATIONS.**

(a)

This Section shall govern the imposition, assessment and collection of administrative penalties imposed pursuant to Section 306.

(b)

The SFMTA Board of Directors finds:

(1)

That it is in the best interest of the City, its residents, visitors and those who work in and on City streets and sidewalks to provide an alternative, administrative penalty mechanism for enforcement of the obstructing traffic violations covered by this section in addition to the existing enforcement mechanisms authorized under the California Penal Code; and

(2)

That the administrative penalty scheme established by this section is intended to compensate the public for the injury and damage caused by the prohibited conduct and gain compliance with the SFMTA's "Regulations for Working in San Francisco Streets" (also known as "the Bluebook"). The administrative penalties authorized under this section are intended to be reasonable and not disproportionate to the damage or injury to the City and the public caused by the prohibited conduct.

(c)

*Administrative Citation.* Where an officer or employee designated in Section 306 determines that there has been a violation of Division I, Section 7.2.71, the officer or employee may issue an administrative citation to the person and/or entity responsible for the violation. For purposes of this Section, an entity is responsible if an officer, employee or agent of the entity commits the violation. The citation shall inform the person or entity responsible of the date, time, place and nature of the violation and the

amount of the proposed penalty, and shall state that the penalty is due and payable to the SFMTA within 15 business days from the date of the notice, if not contested within the time period specified. The citation shall also state that the person or entity responsible has the right, pursuant to Subsection (d), to request administrative review of the citing officer or employee's determination as to the violation and assessment of penalties, and shall set forth the procedure for requesting administrative review. The designated officer or employee shall serve the administrative citation as follows:

1.

Where there is a nexus between the violator and a specific property:

(A)

One copy of the Notice shall be posted in a conspicuous place upon the property.

(B)

One copy of the Notice shall be served upon each of the following:

(i)

The person, if any, in real or apparent charge and control of the premises or property involved;

(ii)

The owner of record, if applicable.

Service required by subparagraph (B) shall be made by first class mail and a certificate of mailing shall be prepared.

2.

Where the issuing officer or employee is unable to ascertain a nexus between the violation and property within the City, a completed copy of the administrative citation may be served on the individual who has committed the violation by personal service, or by first class mail and a certificate of mailing prepared.

3.

For purposes of this Section, there is a nexus where activity on the property has caused, contributed to, or been a substantial factor in causing, the violation.

(d)

*Request for Hearing; Hearing.*

(1)

A person or entity that has been issued an administrative citation may request administrative review in order to contest the citation issued in accordance with this Section. Administrative review shall be initiated by filing a request for administrative review with the SFMTA Hearing Division within 15 business days from the date of the citation. Failure to request a hearing in a timely manner or to attend a scheduled hearing shall satisfy the hearing requirement.

(2)

Whenever administrative review is requested pursuant to this Section, the SFMTA Hearing Section shall, within fifteen business days of receipt of the request, notify the requestor of the date, time, and place of the administrative hearing by certified mail. Such hearing shall be held no later than 30 calendar days after the SFMTA Hearing Section receives the request, unless time is extended by mutual agreement of the affected parties.

(3)

The administrative hearing shall be conducted by a neutral hearing of office assigned by the SFMTA Hearing Section. The SFMTA Hearing Section may issue rules as needed to implement this requirement. The parties may present evidence and testimony to the Hearing Officer. All testimony shall be under oath. This shall ensure that a record of the proceedings is maintained. The burden of proof to uphold the violation shall be on the City, but the administrative citation shall be prima facie evidence of the violation.

(4)

The Hearing Officer shall issue a decision including a summary of the issues and the evidence presented, and findings and conclusions, within 15 calendar days of the conclusion of the hearing. The Hearing Officer may uphold the penalty imposed by the citation or dismiss the citation. A copy of the decision may be personally delivered to the person or entity contesting the violation or sent by first class mail. The decision shall be a final administrative determination. An aggrieved party may seek judicial review of the decision pursuant to California Code of Civil Procedure Sections 1094.5 and 1094.6.

(e)

*Payment and Collection of Penalty.*

(1)

Where a person or entity has not made a timely request for administrative hearing, the penalty shall be due and payable to the SFMTA on or before 15 business days from the date of issuance.

(2)

Where a person or entity has made a timely request for administrative hearing, and the penalty has been upheld upon review, any administrative penalty imposed by the Hearing Officer shall be due and payable not later than 10 business days from the date of the notice of decision issued under subparagraph (d)(4).

(3)

If a penalty due and payable under paragraphs (1) or (2) remains unpaid after the specified due date, the SFMTA shall send the violator written notice that the penalty is overdue. Penalties that remain unpaid 30 days after the due date shall be subject to a late payment penalty of fifty (\$50) dollars. Persons and entities against whom administrative penalties are imposed shall also be liable for the costs and attorney's fees incurred by the SFMTA in bringing any civil action to enforce the provisions of this section, including obtaining a judgment for the amount of the administrative penalty and other costs and charges.

(4)

Where there is a nexus between the violation and property in the City owned by the violator, the SFMTA shall further inform the violator that if the amount due is not paid within 30 days from the date of the notice, the SFMTA shall initiate proceedings to make the amount due and all additional authorized costs and charges, including attorneys fees, a lien on the property. Such liens shall be imposed in accordance with Chapter 10, Article XX of the Administrative Code.

(f)

Administrative penalties shall be deposited in the Municipal Transportation Fund and may be expended only by the SFMTA.

**SEC. 902. - GENERAL PERMIT CONDITIONS.**

The following general provisions apply to all permits issued under this Article.

(a)

*Application and Renewal.* Permit applications must be submitted on a form supplied by the SFMTA. All required application fees must be paid and all permit requirements satisfied before a permit may be issued. The SFMTA may require any information of the applicant which it deems necessary to carry out the purposes of this Article. Permits may be renewed annually in compliance with any renewal procedures established by the SFMTA.

(b)

*Display of Permit.* Permittees must maintain the permit at the site of the permitted activity and available for inspection in accordance with any requirements for permit display as may be established by the SFMTA, and shall make all permits available for inspection upon request by an employee of the Police Department or SFMTA.

(c)

*Prior Payments Required.* No permit shall be issued or renewed until the applicant has paid all permit fees that are due to the SFMTA. No permit shall be issued to any applicant who is responsible for payment of one or more delinquent citations for violation of any provision of this Code or the Vehicle Code until all fines and fees associated with the citation are paid in full.

**(d)**

*Permit Fees.* Fees for permits issued pursuant to this Code are as follows:

*Table 902(d):*

	<u>Base Permit Fee:</u>	<u>Daily Fee:</u>	<u>Removal/Relocation Fee:</u>
Special Traffic Permit (§ 903)	\$175.00  \$200.00 late fee if application received later than two full working days in advance- SFMTA also reserves the right to refuse late applications	\$36.00 per day for use of the permit	\$50.00 for the removal or relocation of each sign.  \$75.00 for removal or relocation of each pole.  \$200.00 per Parking Space for the temporary relocation of colored curbs zones, including painting.  \$350.00 per Parking Space for permanent relocation of colored curb zones, including painting. Any labor and materials costs for pavement striping or signal adjustment.
Temporary Exclusive Use of Parking Meters (§ 904)	Base Permit Fee: \$4.00 per 25 linear feet of construction frontage per day, including weekends and holidays		
Contractor Permit (§ 906)	Base Permit Fee: \$807.00 if issued between June 1 and November 31; \$404.00 if issued between December 1 and May 31. Permit Transfer Fee: \$35		

**(e)**

*Indemnification.* The permit application for Special Traffic Permits issued pursuant to Section 903, and permits for the Temporary and Exclusive Use of Parking Meters issued pursuant to Section 904, shall require the applicant to acknowledge that the Permittee, by acceptance of the permit, agrees to indemnify and hold the City and County of San Francisco, its departments, commissions, boards, officers, employees and agents ("Indemnitees") harmless from and against any and all claims, demands, actions or causes of action which may be made against the Indemnitees for the recovery of damages for the injury to or death of any person or persons or for the damage to any property resulting directly or indirectly from the activity authorized by the permit regardless of the negligence of the Indemnitees.

**(f)**

*Rules and Regulations.* Compliance with all applicable rules and regulations and with all permit conditions shall be a material condition for the issuance or renewal of a permit.

**(g)**

*Permit Revocation.* The Director of Transportation is authorized to revoke the permit of any Permittee found to be in violation of this Article and, upon written notice of revocation, the Permittee shall surrender such permit in accordance with the instructions in the notice of revocation.

**APPENDIX C**

**STREETS OF MAJOR TRAFFIC IMPORTANCE**



**TABLE 1  
STREETS OF MAJOR IMPORTANCE**

**NO WORK IS ALLOWED ON THE FOLLOWING STREETS DURING THE SPECIFIED HOURS.  
CONTRACTOR IS NOT ALLOWED TO LEAVE ANY HOLE, DEBRIS, ANY MATERIAL/EQUIPMENT IN  
THE TRAFFIC LANES, INCLUDING TOW-AWAY LANES, DURING THESE HOURS.**

<b>STREETS (Limits)</b>	<b>NORTHSIDE</b>	<b>SOUTHSIDE</b>	<b>EASTSIDE</b>	<b>WESTSIDE</b>	<b>ADDITIONAL RESTRICTIONS SEE APPENDIX</b>
1ST ST. (Market - Harrison)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	Map 1
2ND ST. (Market - Berry)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	Maps 1 & 4
3RD ST. (Market - Mission)	--	--	7a.m. - 7p.m. Everyday	7a.m. - 7p.m. Everyday	Maps 1, 2 & 4
3RD ST. (Mission - Berry)	--	--	7a.m. - 7p.m. Everyday	7a.m. - 7p.m. Everyday	Maps 1, 2 & 4
3RD ST. (Berry - Jerrold)	--	--	7a.m. - 7p.m. Everyday	7a.m. - 7p.m. Everyday	Maps 1 & 4
3RD ST. (Jerrold - Thornton)	--	--	24 HOURS Everyday	24 HOURS Everyday	Map 3
3RD ST. (Thornton - Jamestown)	--	--	7a.m. - 7p.m. Everyday	7a.m. - 7p.m. Everyday	Map 3
4TH ST. (Market - Bryant)	--	--	7a.m. - 7p.m. Everyday	7a.m. - 7p.m. Everyday	Maps 1, 2 & 4
4TH ST. (Bryant - Channel)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	Maps 1 & 4
5TH ST. (Market - Brannan)	--	--	7a.m. - 7p.m. Everyday	7a.m. - 7p.m. Everyday	Map 1
6TH ST. (Market - Brannan)	--	--	7a.m. - 7p.m. Everyday	7a.m. - 7p.m. Everyday	Map 1
7TH ST. (McAllister - 16th)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	Map 1
7TH AV. (Laguna Honda - Lincoln)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	Map 4
8TH ST. (Market - Townsend)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	Map 1
9TH ST. (Market - Bryant)	--	--	7a.m. - 7p.m. Everyday	7a.m. - 7p.m. Everyday	Map 1
9TH ST. (Bryant - Brannan)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	Map 1
10TH ST. (Market - Brannan)	--	--	7a.m. - 7p.m. Everyday	7a.m. - 7p.m. Everyday	Map 1
13TH ST. (Mission - So. Van Ness)	7a.m. - 7p.m. Everyday	7a.m. - 7p.m. Everyday	--	--	Map 1
13TH ST. (So. Van Ness - Potrero)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 1

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14TH ST. (Market - Castro)	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	
14TH ST. (Market - Folsom)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	
16TH ST. (Market - Bryant)	4p.m. - 6p.m.	7a.m. - 9a.m.	--	--	
16TH ST. (Bryant - 3rd)	4p.m. - 6p.m.	7a.m. - 9a.m.; 4p.m. - 6p.m.	--	--	Map 4
17TH ST. (Church - Noe)	4p.m. - 6p.m.	--	--	--	
17TH ST. (Noe - Diamond)	4p.m. - 6p.m.	7a.m. - 9a.m.	--	--	
17TH ST. (Roosevelt - Stanyan)	4p.m. - 6p.m.	7a.m. - 9a.m.	--	--	
18TH ST. (Market - Harrison)	4p.m. - 6p.m.	7a.m. - 9a.m.	--	--	
19TH AVE. (Lincoln - J. Serra)	--	--	Caltrans	Caltrans	Caltrans Jurisdiction
25TH AVE. (Clement - Anza)	--	--	7a.m. - 9a.m.; 4p.m. - 6p.m.	7a.m. - 9a.m.; 4p.m. - 6p.m.	
Balboa St. (Arguello - 14th Ave.)	4p.m. - 6p.m.	7a.m. - 9a.m.	--	--	
Battery St. (Market - Broadway)	--	--	7a.m. - 7p.m. Everyday	7a.m. - 7p.m. Everyday	Map 1
Battery St. (Broadway - Embarcadero)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	
Bay St. (Embarcadero - Laguna)	4p.m. - 6p.m.	7a.m. - 9a.m.	--	--	
Bayshore Blvd. (Cesar Chavez - Fitzgerald)	--	--	7a.m. - 9a.m.; 4p.m. - 6p.m.	4p.m. - 6p.m.	
Bayshore Blvd. (Fitzgerald - County Line)	--	--	7AM - 9AM	4p.m. - 6p.m.	
Beale St. (Market - Bryant)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	Map 1
Beach St. (Laguna - Buchanan)	--	--	7a.m. - 9a.m.; 4p.m. - 6p.m.	7a.m. - 9a.m.; 4p.m. - 6p.m.	
Brannan St. (Embarcadero - 10th St.)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 1

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Broadway (Embarcadero - Powell)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 1
Broadway (tunnel) (Powell - Larkin)	7a.m. - 7p.m.*	7a.m. - 7p.m.*	--	--	Map 1
Broadway (Larkin - Gough)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 1
Brotherhood Way (Lake Merced - Alemany)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	
Bryant St. (Embarcadero - Sterling)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	
Bryant St. (Sterling - 3rd St)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Maps 1 & 4
Bryant St. (3rd St - 11th St.)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 1
Bush St. (Battery - Taylor)	7a.m. - 7p.m.	7a.m. - 7p.m. Everyday	--	--	
Bush St. (Taylor - Gough)	7a.m. - 10a.m.; 3p.m. - 7p.m.	7a.m. - 10a.m.; 3p.m. - 7p.m.	--	--	
Bush St. (Gough - Presidio)	7a.m. - 10a.m..	7a.m. - 10a.m..	--	--	Map 1
California St. (Market - Gough)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 1
California St. (Gough - 14th Av.)	4p.m. - 6p.m.	7a.m. - 9a.m.	--	--	Map 1
Castro St. (Market - Waller)	--	--	7a.m.- 9a.m.; 4p.m. - 6p.m.	--	
Castro St. (17th St. - 18th St.)	--	---	7a.m. - 6p.m.	7a.m. - 6p.m.	
Cesar Chavez (3rd St. - Mission)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 4
Cesar Chavez (Mission - Dolores)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	
Chestnut St. (Fillmore - Broderick)	4p.m. - 6p.m.	4p.m. - 6p.m.	--	--	
Church St. (Duboce - Market)	--	--	7a.m.- 9a.m.; 4p.m. - 6p.m.	7a.m.- 9a.m.; 4p.m. - 6p.m.	
Church St. (Market - 18th St.)	--	--	7a.m. - 9a.m.	4p.m. - 6p.m.	

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Clay St. (Drumm - Sansome)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 1
Clay St. (Sansome - Kearny)	7AM - 7PM	7AM - 7PM	--	--	Map 1
Clay St. (Kearny - Gough)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 1
Clayton St. (Twin Peaks - Ashbury)	--	--	7a.m. - 9a.m.	4p.m. - 6p.m.	
Columbus Ave. (Montgomery - Vallejo)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 1
Columbus Ave. (Vallejo - North Point)	4p.m. - 6p.m.	7a.m. - 9a.m.	--	--	
Crossover Drive (Lincoln - Park Presidio)	--	--	Caltrans	Caltrans	Caltrans Jurisdiction
Cyril Magnin St. (Market - Eddy)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	
Davis St. (Market - Washington)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	Map 1
Dewey Blvd. (Taraval - Laguna Honda)	4p.m. - 6p.m.	7a.m. - 9a.m.	--	--	
Diamond St. (Bosworth - Monterey)	--	--	7a.m. - 9a.m.; 4p.m. - 6p.m.	7a.m. - 9a.m.; 4p.m. - 6p.m.	
Divisadero St. (Waller - California)	--	--	7a.m. - 9a.m.; 4p.m. - 6p.m.	4p.m. - 6p.m.	
Division St. (11th St - De Haro)	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	--	Map 1
Dolores St. (Market - San Jose)	--	---	7a.m. - 9a.m.	3 p.m. -7p.m.	
Drumm St. (Market - Washington)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	Map 1
Duboce Ave. (Mission - Market)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 1
Embarcadero (King - North Point)	--	--	7a.m. - 7p.m. Everyday	7a.m. - 7p.m. Everyday	Map 1; Port Jurisdiction
Embarcadero (North Point - Taylor)	7a.m. - 7p.m. Everyday	7a.m. - 7p.m. Everyday	--	--	Port Jurisdiction
Essex St. (Folsom - Harrison)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	Map 1

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Euclid Ave. (Presidio - Masonic)	--	7a.m. - 9a.m.	--	--	
Fell St. (Polk - Baker)	7a.m. - 7p.m. Everyday	7a.m. - 7p.m. Everyday	--	--	Map 1
Fell St. (Baker - Stanyan)	3 p.m. - 7p.m.	3 p.m. - 7p.m.	--	--	
Fillmore St. (Chestnut - Lombard)	--	--	4p.m. - 6p.m.	4p.m. - 6p.m.	
Folsom St. (Embarcadero - 3rd St.)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 1
Folsom St. (3rd St. - 5th St.)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Maps 1 & 2
Folsom St. (5th St. - 13th St.)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 1
Folsom St. (13th St. - Cesar Chavez)	--	--	7a.m. - 9a.m.	4p.m. - 6p.m.	
Franklin St. (Market - California)	--	--	7a.m. - 7p.m. Everyday	7a.m. - 7p.m. Everyday	Map 1
Franklin St. (California - Lombard)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	Map 1
Fremont St. (Market - Harrison)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	Map 1
Front St. (Market - Broadway)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	Map 1
Fulton St. (Hyde - Gough)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 1
Fulton St. (Gough - Park Presidio)	4PM - 6PM	7AM - 9AM	--	--	
Geary St. (Market - Taylor)	7AM - 7PM Everyday	7AM - 7PM Everyday	--	--	Map 1
Geary St. (Taylor - Gough)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 1
Geary Blvd. (Gough - Presidio)	3p.m. - 7p.m.	7a.m. - 9a.m.	--	--	
Geary Blvd. (Presidio - 25th Ave.)	7a.m. - 6p.m.	7a.m. - 6p.m.			
Geary Blvd. (25th Ave. - 36th Ave.)	4p.m. - 7p.m.	4p.m. - 7p.m.			

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Geneva Ave. (Paris - Delano)	7a.m. - 9a.m.; 4p.m. - 6p.m.	4p.m. - 6p.m.	--	--	
Geneva Ave. (Delano - Ocean)	7a.m. - 9a.m.; 4p.m. - 6p.m.	7a.m. - 9a.m.; 4p.m. - 6p.m.	--	--	
Golden Gate Ave. (Market - Gough)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 1
Golden Gate Ave. (Gough - Divisadero)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.			
Gough St. (Market - Grove)	--	--	7a.m. - 7p.m. Everyday	7a.m. - 7p.m. Everyday	Map 1
Gough St. (Grove - Clay)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	Map 1
Gough St. (Clay - Lombard)	--	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	Map 1
Grant Ave. (Market - Broadway)	--	--	7AM - 7PM*	7AM - 7PM*	Map 1
Grant Ave. (Broadway - Columbus)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	
Grove St. (Hyde - Gough)	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	--	Map 1
Guerrero St. (Market - Cesar Chavez)	--	--	7a.m. - 9a.m.	4p.m. - 6p.m.	
Guerrero St. (Cesar Chavez - San Jose)	--	--	7a.m. - 9a.m.; 4p.m. - 6p.m.	7a.m. - 9a.m.; 4p.m. - 6p.m.	
Haight St. (Stanyan - Central)	4p.m. - 6p.m.	7a.m. - 9a.m.; 4p.m. - 6p.m.	--	--	
Harrison St. (Embarcadero - 13th St.)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Maps 1 & 2
Harrison St. (13th St - 16th St.)	--	--	4p.m. - 6p.m.	4p.m. - 6p.m.	
Hawthorne St. (Howard - Folsom)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	Map 1
Hayes St. (Market - Gough)	7a.m. - 7p.m. Everyday	7a.m. - 7p.m. Everyday	--	--	Map 1
Howard St. (Embarcadero - 11th St.)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Maps 1 & 2
Hyde St. (Market - Broadway)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	Map 1

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Jefferson St. (Embarcadero - Hyde)	11a.m. - 7p.m. Everyday	11a.m. - 7p.m. Everyday	--	--	
Judah St. (3rd Ave. - 19th Ave.)	7a.m. - 9a.m.; 4p.m. - 6p.m.	7a.m. - 9a.m.; 4p.m. - 6p.m.	--	--	
Junipero Serra (St. Francis - Ocean)	--	--	7a.m. - 9a.m.	4p.m. - 6p.m.	
Junipero Serra (19th Ave. - I-280)	--	--	Caltrans	Caltrans	Caltrans Jurisdiction
Kearny St. (Market - California)	--	--	7a.m. - 7p.m. Everyday	7a.m. - 7p.m. Everyday	Map 1
Kearny St. (California - Broadway)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	Map 1
Kezar Dr. (Stanyan - Lincoln Wy)	--	--	7a.m. - 7p.m. Everyday	7a.m. - 7p.m. Everyday	
King St. (Embarcadero - 5th St.)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Maps 1 & 4
Laguna St. (Bay - Marina)	--	--	4p.m. - 6p.m.	7a.m. - 9a.m.; 4p.m. - 6p.m.	
Laguna Honda (7th Ave. - Dewey)	--	--	7a.m. - 9a.m.; 4p.m. - 6p.m.	7a.m. - 9a.m.; 4p.m. - 6p.m.	
Laguna Honda (Dewey - Merced)	--	--	4p.m. - 6p.m.	7a.m. - 9a.m.	
Lake Merced Blvd. (Sunset - John Muir)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	
Larkin St. (Market - Turk)	--	--	7a.m. - 7p.m.	7a.m. - 7p.m.	Map 1
Larkin St. (Turk - Broadway)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	Map 1
Laurel St. (California - Mayfair)	--	--	4p.m. - 6p.m.	--	
Leavenworth St. (McAllister - Broadway)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	Map 1
Lincoln Way (3rd Ave. - 20th Ave.)	7a.m. - 7p.m. Everyday	7a.m. - 7p.m. Everyday	--	--	
Lincoln Way (20th Ave. - 38th Ave.)	4p.m. - 6p.m.	7a.m. - 9a.m.	--	--	
Lombard St. (Broderick - Van Ness)	Caltrans	Caltrans	--	--	Caltrans Jurisdiction

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**TABLE 1  
STREETS OF MAJOR IMPORTANCE**

**NO WORK IS ALLOWED ON THE FOLLOWING STREETS DURING THE SPECIFIED HOURS.  
CONTRACTOR IS NOT ALLOWED TO LEAVE ANY HOLE, DEBRIS, ANY MATERIAL/EQUIPMENT IN  
THE TRAFFIC LANES, INCLUDING TOW-AWAY LANES, DURING THESE HOURS.**

<b>STREETS (Limits)</b>	<b>NORTHSIDE</b>	<b>SOUTHSIDE</b>	<b>EASTSIDE</b>	<b>WESTSIDE</b>	<b>ADDITIONAL RESTRICTIONS SEE APPENDIX C MAPS</b>
Main St. (Market - Bryant)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	Map 1
Marina Blvd. (Buchanan - Doyle Drive)	3p.m. - 7p.m.	7a.m. - 9a.m.	--	--	
Market St. (Steuart - 1st St.)	6a.m. - 7p.m.	6a.m. - 7p.m.	--	--	Map 1
Market St. (1st St. - 8th St.)	6a.m. - 7p.m.	6a.m. - 7p.m.	--	--	Maps 1, 2, & 4
Market St. (8th St. - Duboce)	6a.m. - 7p.m.	6a.m. - 7p.m.	--	--	Map 1
Market St. (Duboce - 14th St.)	4p.m. - 6p.m.	7a.m. - 9a.m.	--	--	
Market St. (14th St. - Corbett)	4p.m. - 6p.m.	7a.m. - 9a.m.	--	--	
Mason St. (Market - Sutter)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	Map 1
Masonic Ave. (Waller - Page)	--	--	7a.m. - 9a.m.	4p.m. - 6p.m.	
Masonic Ave. (Page - Hayes)	--	--	7a.m. - 9a.m.; 4p.m. - 6p.m.	7a.m. - 9a.m.; 4p.m. - 6p.m.	
Masonic Ave. (Hayes - Presidio)	--	--	7a.m. - 9a.m.	4p.m. - 6p.m.	
McAllister St. (Market - Gough)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 1
McAllister St. (Gough - Octavia)	4p.m. - 6p.m.	--	--	--	
Mission St. (Embarcadero - Beale)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 1
Mission St. (Beale - 1st St.)	7a.m. - 7p.m.	7a.m. - 7p.m.	--	--	Map 1
Mission St. (1st St. - 11th St.)	7a.m. - 7p.m, Everyday	7a.m. - 7p.m, Everyday	--	--	Maps 1 & 2
Mission St. (11th St. - So. Van Ness)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 1
Mission St. (So. Van Ness - 13th St.)	Caltrans	Caltrans	Caltrans	Caltrans	Caltrans Jurisdiction
Mission St. (13th St. - Rolph)	--	--	7a.m. - 9a.m.; 4p.m. - 6p.m.	4p.m. - 6p.m.	

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STREETS OF MAJOR IMPORTANCE**

**NO WORK IS ALLOWED ON THE FOLLOWING STREETS DURING THE SPECIFIED HOURS.  
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<b>STREETS (Limits)</b>	<b>NORTHSIDE</b>	<b>SOUTHSIDE</b>	<b>EASTSIDE</b>	<b>WESTSIDE</b>	<b>ADDITIONAL RESTRICTIONS SEE APPENDIX C MAPS</b>
Montgomery St. (Market - Washington)	--	--	7a.m. - 7p.m, Everyday	7a.m. - 7p.m, Everyday	Map 1
New Montgomery (Market - Mission)	--	--	7a.m. - 7p.m, Everyday	7a.m. - 7p.m, Everyday	Map 1
New Montgomery (Mission - Howard)	--	--	7a.m. - 7p.m.*	7a.m. - 7p.m.*	Map 1
North Point St. (Columbus - Van Ness)	4p.m. - 6p.m.	7a.m. - 9a.m.	--	--	
Oak St. (Franklin - Baker)	7a.m. - 7p.m. Everyday	7a.m. - 7p.m. Everyday	--	--	Map 1
Oak St. (Baker - Stanyan)	7a.m. - 10a.m.	7a.m. - 10a.m.	--	--	
Ocean Ave. (Phelan - San Fernando)	4p.m. - 6p.m.	7a.m. - 9a.m.; 4p.m. - 6p.m.	--	--	
Ocean Ave. (San Fernando - 19th Ave.)	4p.m. - 6p.m.	4p.m. - 6p.m.	--	--	
Octavia Blvd. (Market - Fell (Main Roadway))	--	--	7a.m. - 10p.m. Everyday	7a.m. - 10p.m. Everyday	
O'Farrell St. (Market - Taylor)	7a.m. - 7p.m.*	7a.m. - 7p.m.*	--	--	Map 1
O'Farrell St. (Taylor - Gough)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 1
Otis St. (So. Van Ness - McCoppin)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 1
Otis St. (McCoppin - Duboce)	--	--	7a.m. - 7p.m. Everyday	7a.m. - 7p.m. Everyday	Map 1
Pacific Ave. (Front - Gough)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 1
Page St. (Gough - Franklin)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 1
Park Presidio Blvd. (Fulton - Lake)	--	--	Caltrans	Caltrans	Caltrans Jurisdiction
Parnassus Ave. (5th Ave. - Hillway)	4p.m. - 6p.m.	4p.m. - 6p.m.	--	--	
Paul Ave. (San Bruno - 3rd St.)	4p.m. - 6p.m.	7a.m. - 9a.m.	--	--	
Pine St. (Market - Sansome)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 1

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<b>STREETS (Limits)</b>	<b>NORTHSIDE</b>	<b>SOUTHSIDE</b>	<b>EASTSIDE</b>	<b>WESTSIDE</b>	<b>ADDITIONAL RESTRICTIONS SEE APPENDIX C MAPS</b>
Pine St. (Sansome - Kearny)	7a.m. - 7p.m.	7a.m. - 7p.m.	--	--	Map 1
Pine St. (Kearny - Gough)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 1
Pine St. (Gough - Presidio)	4p.m. - 7p.m.	4p.m. - 7p.m.	--	--	
Polk St. (Market - Sutter)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	Map 1
Polk St. (Sutter - Sacramento)	--	--	7a.m. - 9a.m.; 11a.m.-7p.m.*	7a.m. - 9a.m.; 11a.m.-7p.m.*	Map 1
Polk St. (Sacramento - Broadway)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	Map 1
Polk St. (Broadway - Vallejo)	--	--	4p.m. - 6p.m.	7a.m. - 9a.m.; 4p.m. - 6p.m.	
Portola Dr. (Corbett - J. Serra)	4p.m. - 6p.m.	7a.m. - 9a.m.	--	--	
Post St. (Montgomery - Mason)	7a.m. - 7p.m.	7a.m. - 7p.m.	--	--	Map 1
Post St. (Mason - Gough)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 1
Post St. (Gough - Divisadero)	--	7a.m. - 9a.m.	--	--	
Potrero Ave. (Cesar Chavez - Division)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	
Powell St. (Ellis - Broadway)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	Map 1
Presidio Ave. (Pine - California)	--	--	4p.m. - 6p.m.	--	
Richardson Ave. (Lyon - Broderick)	--	--	Caltrans	Caltrans	Caltrans Jurisdiction
Sacramento St. (Drumm - Sansome)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 1
Sacramento St. (Sansome - Kearny)	7a.m. - 7p.m.	7a.m. - 7p.m.	--	--	Map 1
Sacramento St. (Kearny - Gough)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 1
San Jose Ave. (Guerrero - Theresa)	--	--	7a.m. - 9a.m.; 4p.m. - 6p.m.	7a.m. - 9a.m.; 4p.m. - 6p.m.	

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<b>STREETS (Limits)</b>	<b>NORTHSIDE</b>	<b>SOUTHSIDE</b>	<b>EASTSIDE</b>	<b>WESTSIDE</b>	<b>ADDITIONAL RESTRICTIONS SEE APPENDIX C MAPS</b>
San Jose Ave. (Theresa - Mt. Vernon)	--	--	7a.m. - 9a.m.	4p.m. - 6p.m.	
San Jose Ave. (Sadowa - County Line)	--	--	Caltrans	Caltrans	Caltrans Jurisdiction
Sansome St. (Sutter - Washington)		--	7a.m. - 7p.m.	7a.m. - 7p.m.	Map 1
Sansome St. (Washington-Embarcadero)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	Map 1
Silver Ave. (Elmira - Girard)	4p.m. - 6p.m.	7a.m. - 9a.m.	--	--	
Skyline Blvd. (Sloat - County Line)	--	--	Caltrans	Caltrans	Caltrans Jurisdiction
So. Van Ness (Market - Mission)	--	--	7a.m. - 7p.m. Everyday	7a.m. - 7p.m. Everyday	Map 1; Caltrans Jurisdiction
So. Van Ness (Mission - 13th St.)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 7p.m. Everyday	Map 1; West Side is Caltrans Jurisdiction
So. Van Ness (13th St. - Cesar Chavez)	--	--	7a.m. - 9a.m.	4p.m. - 6p.m.	
Stanyan St. (Waller - Fulton)	--	--	7a.m. - 9a.m.; 4p.m. - 6p.m.	4p.m. - 6p.m.	
Starr King Way (Gough - Franklin)	7a.m. - 9a.m.	7a.m. - 9a.m.	--	--	
Sterling St. (Harrison - Bryant)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	Map 1
Steuart St. (Market - Howard)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	Map 1
Stockton St. (Market - Broadway)	--	--	7a.m. - 7p.m. Everyday	7a.m. - 7p.m. Everyday	Map 1
Stockton St. (Broadway - Columbus)	--	--	7a.m. - 7p.m. Everyday	7a.m. - 7p.m. Everyday	
Sutter St. (Market - Kearny)	7a.m. - 7p.m.	7a.m. - 7p.m.	--	--	Map 1
Sutter St. (Kearny - Mason)	7a.m. - 6p.m.*	7a.m. - 6p.m.*	--	--	Map 1
Sutter St. (Mason - Gough)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 1
Sutter St. (Gough - Divisadero)	4p.m. - 6p.m.	--	--	--	

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<b>STREETS (Limits)</b>	<b>NORTHSIDE</b>	<b>SOUTHSIDE</b>	<b>EASTSIDE</b>	<b>WESTSIDE</b>	<b>ADDITIONAL RESTRICTIONS SEE APPENDIX C MAPS</b>
Taraval St. (18th Ave. - 20th Ave.)	4p.m. - 6p.m.	7a.m. - 9a.m.	--	--	
Taylor St. (Market - Broadway)	--	--	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	Map 1
Townsend St. (Embarcadero - 8th St.)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Maps 1 & 4
Turk St. (Mason - Gough)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 1
Turk St. (Gough - Divisadero)	4p.m. - 7p.m.	4p.m. - 7p.m.	--	--	
Turk St. (Divisadero - Arguello)	3p.m. - 7p.m.	--	--	--	
Union St. (Powell - Stockton)	4p.m. - 6p.m.	4p.m. - 6p.m.	--	--	
Union St. (Octavia - Polk)	4p.m. - 6p.m.	7a.m. - 9a.m.	--	--	
Valencia St. (Market - Mission)	--	--	7a.m. - 9a.m.	4p.m. - 6p.m.	
Van Ness Ave. (Market - Lombard)	--	--	Caltrans	Caltrans	Map 1; Caltrans Jurisdiction
Van Ness Ave. (Lombard - North Point)	--	--	--	4p.m. - 6p.m.	
Washington St. (Embarcadero-Montgomery)	7a.m. - 9a.m.; 3p.m. - 7p.m.	7a.m. - 9a.m.; 3p.m. - 7p.m.	--	--	Map 1
West Portal Ave. (Sloat - Ulloa)	4p.m. - 6p.m.	4p.m. - 6p.m.	--	--	
Woodside St. (Laguna Honda - Portola)	4p.m. - 6p.m.	7a.m. - 9a.m.; 4p.m. - 6p.m.	--	--	

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**TABLE 2**  
**MOSCONE CONVENTION CENTER**

NO CONSTRUCTION ACITIVITY IS PERMITTED ON THESE STREETS FROM ONE HOUR BEFORE TO ONE HOUR AFTER MAJOR EVENTS AT THE MOSCONE CONVENTION CENTER. CONTRACTOR IS NOT ALLOWED TO LEAVE HOLES, DEBRIS, ANY MERTIAL/EQUIPMENT IN THE TRAFFIC LANES, INCLUDING TOW-AWAY ALNES, DURING THESE HOURS.

**MOSCONE CONVENTION CENTER (SEE MAP 2)**

	<b>Street</b>	<b>Limits</b>
1.	Mission Street	2 <sup>nd</sup> Street to 5 <sup>th</sup> Street
2.	Howard Street	3 <sup>rd</sup> Street to 5 <sup>th</sup> Street
3.	Folsom Street	3 <sup>rd</sup> Street to 4 <sup>th</sup> Street
4.	3 <sup>rd</sup> Street	Market Street to Harrison Street
5.	4 <sup>th</sup> Street	Market Street to Harrison Street
6.	5 <sup>th</sup> Street	Mission Street to Howard Street

For event information, see the [Moscone Convention Center website](http://www.moscone.com/site/do/event/list)  
<http://www.moscone.com/site/do/event/list>

**TABLE 3  
CANDLESTICK PARK**

NO CONSTRUCTION ACTIVITY IS PERMITTED ON THESE STREETS FROM TWO HOURS BEFORE AND TWO HOURS AFTER MAJOR EVENTS AT CANDLESTICK PARK. CONTRACTOR IS NOT ALLOWED TO LEAVE HOLES, DEBRIS, AN MATERIAL/EQUIPMENT IN THE TRAFFIC LANES, INCLUDING TOW-AWAY LANES, DURING THESE HOURS.

**CANDLESTICK PARK (SEE MAP 3)**

	<b>Street</b>	<b>Limits</b>
1	3rd Street	Bayshore Blvd to King Street
2	Alana Way	Harney Way to City Limits
3	Arelious Walker Drive	Carroll Avenue to Gilman Avenue
4	Bayshore Boulevard	Silver Avenue to South City Limit
5	Bill Walsh (Giants) Drive	Ingerson Avenue to Gilman Avenue
6	Carroll Avenue	3 <sup>rd</sup> Street to Arelious Walker Drive
7	Carroll Avenue	Bayshore Boulevard to Phelps Avenue
8	Cesar Chavez Street	Bayshore Boulevard to 3 <sup>rd</sup> Street
9	Gilman Avenue	3 <sup>rd</sup> Street to Hunters Point Expressway
10	Harney Way	South City Limit to Jamestown Avenue
11	Indiana Street	Cesar Chavez Street to 25 <sup>th</sup> Street
12	Industrial Street	Oakdale Avenue to Bayshore Boulevard
12	Ingerson Avenue	3 <sup>rd</sup> Street to Giants Drive
13	Jamestown Avenue	Salinas Avenue to Hunters Point Expressway
14	Palou Avenue	3 <sup>rd</sup> Street to Industrial Street
15	Paul Avenue	Bayshore Boulevard to 3 <sup>rd</sup> Street
16	Phelps Avenue	Bayshore Boulevard to Williams Street
17	Salinas Avenue	Bayshore Boulevard to 3 <sup>rd</sup> Street
18	Silver Avenue	Cambridge Street to Palou Avenue
19	Williams Street	Phelps Avenue to 3 <sup>rd</sup> Street

These restrictions apply for all events at Candlestick Park. [For event information, see the 49ers website at http://www.49ers.com/stadium/index.html](http://www.49ers.com/stadium/index.html)

**TABLE 4  
AT&T PARK**

NO CONSTRUCTION ACTIVITY IS PERMITTED ON THESE STREETS FROM TWO HOURS BEFORE AND TWO HOURS AFTER MAJOR EVENTS AT AT&T PARK. CONTRACTOR IS NOT ALLOWED TO LEAVE HOLES, DEBRIS, AN MATERIAL/EQUIPMENT IN THE TRAFFIC LANES, INCLUDING TOW-AWAY LANES, DURING THESE HOURS.

**AT&T PARK (SEE MAP 4)**

	<b>Street</b>	<b>Limits</b>
1	16 <sup>th</sup> Street	Potrero Avenue to 3 <sup>rd</sup> Street
2	25 <sup>th</sup> Street	Illinois Street to 3 <sup>rd</sup> Street
3	2 <sup>nd</sup> Street	Market Street to The Embarcadero
4	3 <sup>rd</sup> Street	Market Street to Cesar Chavez Street
5	4 <sup>th</sup> Street	Market Street to 3 <sup>rd</sup> Street
6	5 <sup>th</sup> Street	Berry Street to King Street
7	6 <sup>th</sup> Street	Channel Street to Owens Street
8	7 <sup>th</sup> Street	Townsend Street to 16 <sup>th</sup> Street
9	Berry Street	3 <sup>rd</sup> Street to 5 <sup>th</sup> Street
10	Bryant Street	2 <sup>nd</sup> Street to 3 <sup>rd</sup> Street
11	Cesar Chavez Street	Pennsylvania Avenue to Illinois Street
12	Channel Street	3 <sup>rd</sup> Street to 4 <sup>th</sup> Street
13	Harrison Street	The Embarcadero to 3 <sup>rd</sup> Street
14	Illinois Street	Cesar Chavez Street to Mariposa Street
15	King Street	2 <sup>nd</sup> Street to 5 <sup>th</sup> Street
16	Mariposa Street	Pennsylvania Avenue to Illinois Street
17	Mariposa Street	Terry Francois Boulevard to Mississippi Street
18	Market Street	2 <sup>nd</sup> Street to 4 <sup>th</sup> Street
19	Mission Rock Street	3 <sup>rd</sup> Street to Terry Francois Boulevard
21	Owens Street	6 <sup>th</sup> Street to 16 <sup>th</sup> Street
22	Pennsylvania Avenue	I 280 SB onramp to Cesar Chavez Street
23	Terry Francois Blvd	3 <sup>rd</sup> Street to Mariposa Street
24	The Embarcadero	Market Street to King Street
25	Townsend Street	2 <sup>nd</sup> Street to 7 <sup>th</sup> Street

Restrictions apply for all events at AT&T Park. [For event information, see the Giants website at http://sanfrancisco.giants.mlb.com.](http://sanfrancisco.giants.mlb.com)

**APPENDIX D  
MAPS**



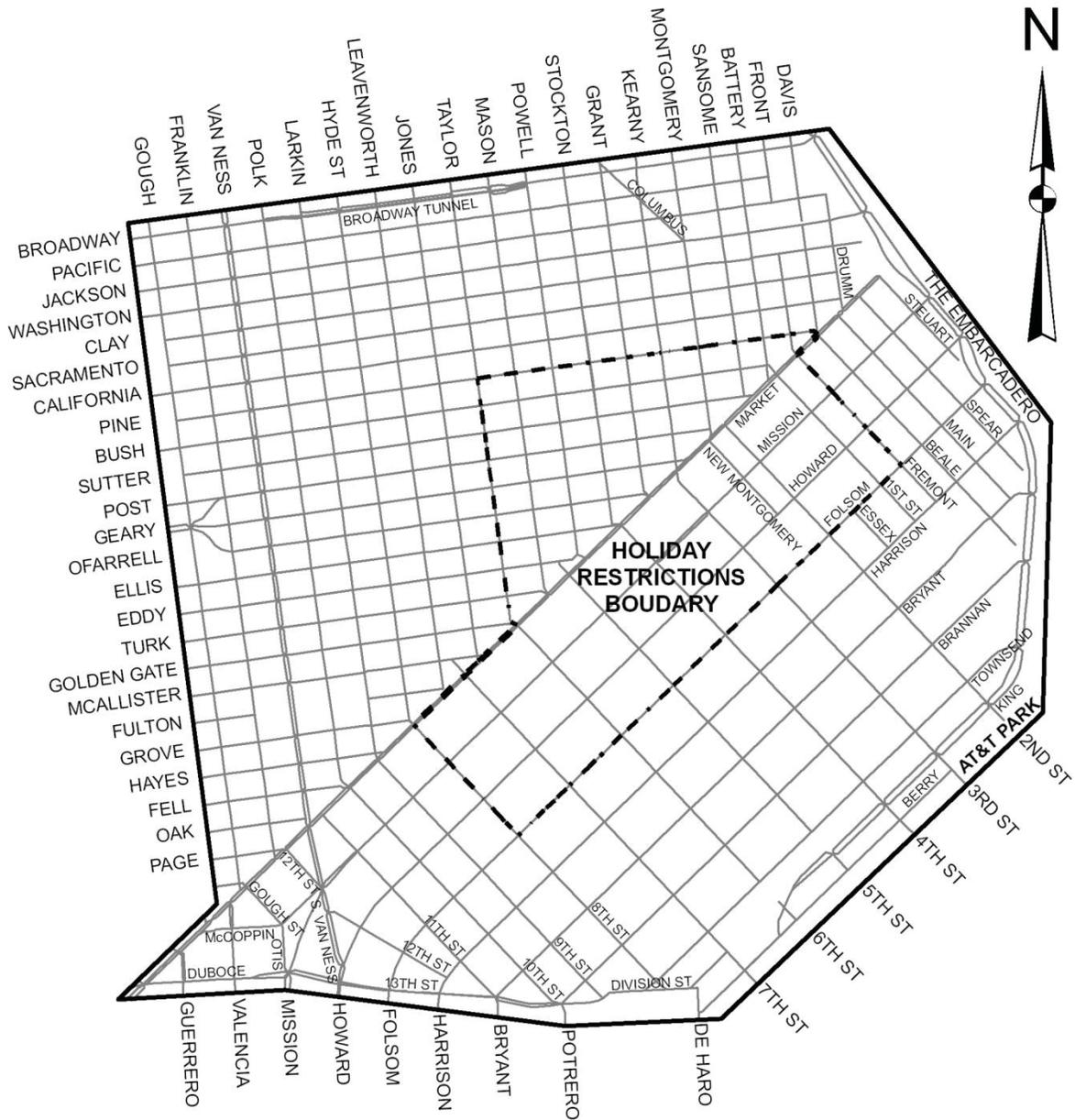
# MAP 1: Streets of Major Importance



**Notes:**

This map does not show all the restricted streets clearly. Check Table 1 in Appendix C for the detailed list and applicable restrictions.

### MAP 1A: Area of Important Streets



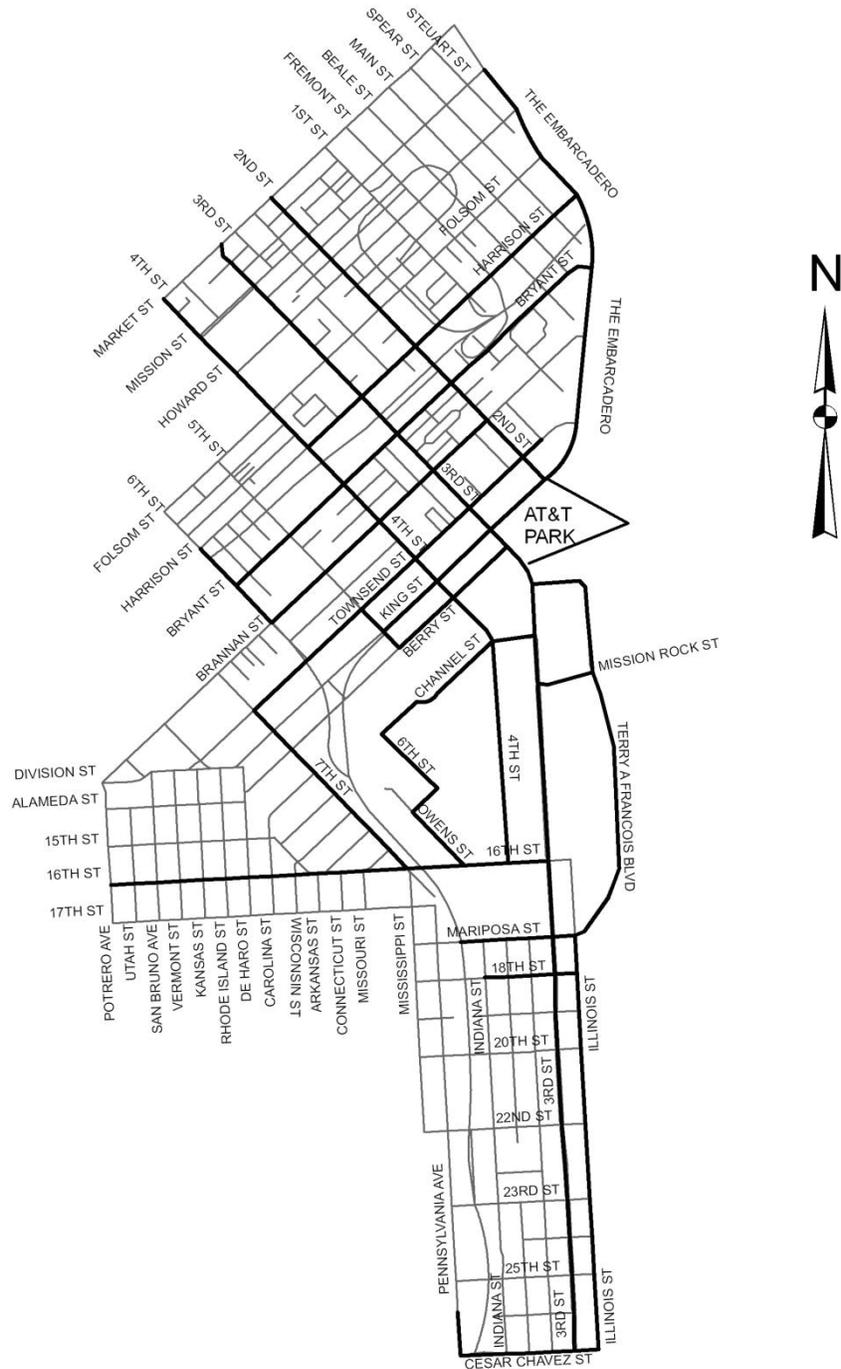
**Notes:**

1. No construction activity is allowed on the streets within the solid bounded area from 7 a.m. to 9 a.m. and 3 p.m. to 7 p.m. Monday through Friday. Consult Table 1 in Appendix C for more specific restrictions on individual streets.
2. Prohibition of construction activity does not apply to alleys.





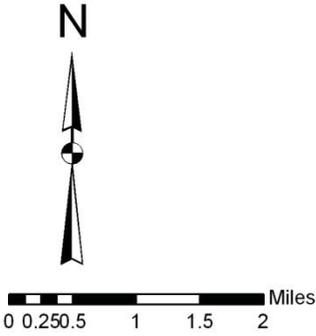
## MAP 4: Restrictions for AT&T Park



### Notes:

1. No construction activity is permitted on highlighted streets from two (2) hours before until two (2) hours after events.
2. Call Giants Enterprises at 415.972.1800 for event schedules or check out the [Giants website at www.sfgiants.com](http://www.sfgiants.com).

# MAP 5: Bicycle Route Network

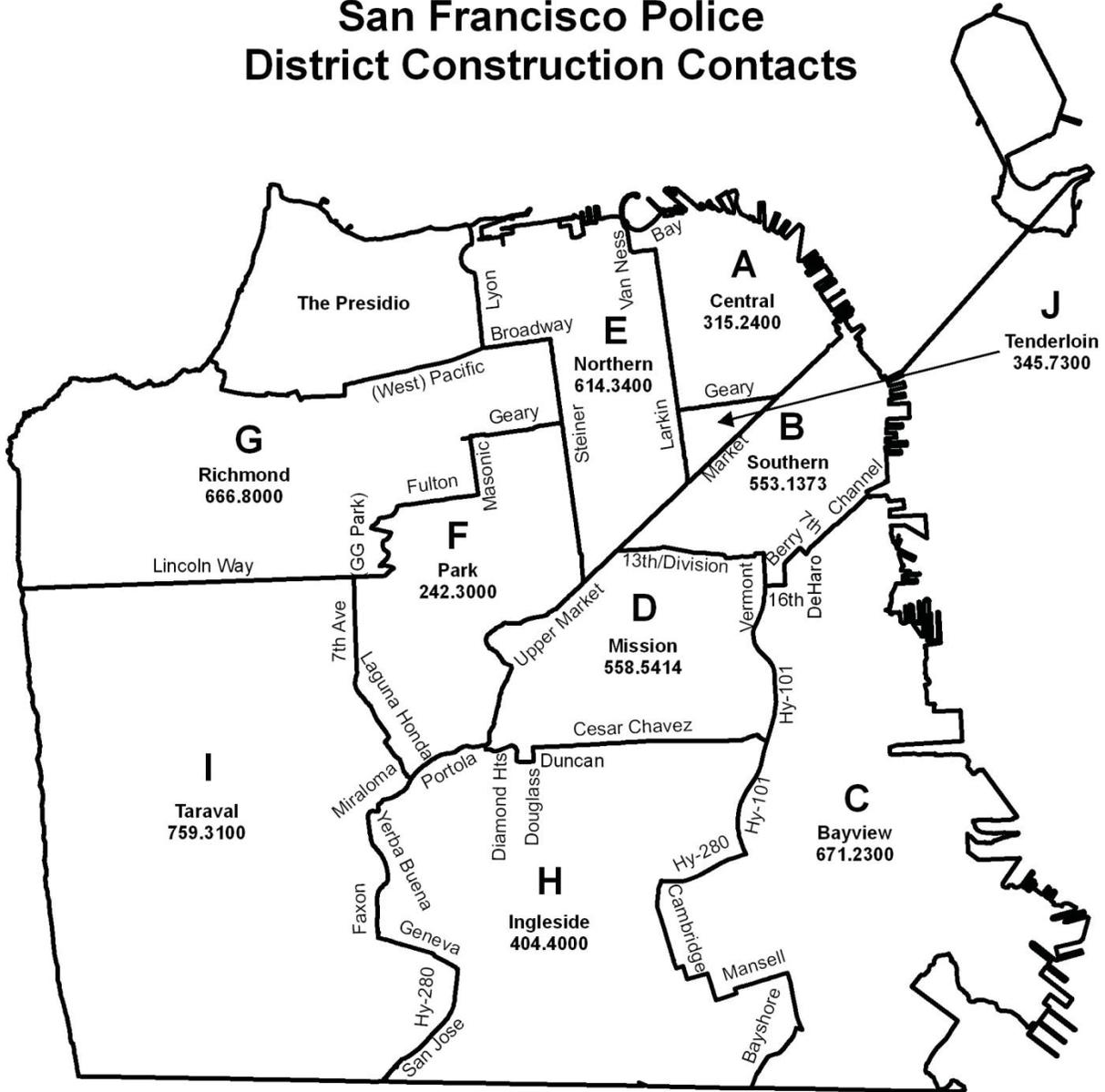


..... BIKE LANES  
 — BIKE PATHS  
 — BIKE ROUTES (includes wide curb lanes)  
 Note: This map is only a guide.  
 For details of San Francisco's  
 most up-to-date bicycle route network map,  
 and for staff contact information, visit:  
[www.bicycle.sfgov.org](http://www.bicycle.sfgov.org).



Map 6: San Francisco Police District Construction Coordinators

## San Francisco Police District Construction Contacts



### 10B CONSTRUCTION CONTACTS

	STATION	WORK PHONE	STATION FAX
<b>A</b>	Central	415.315.2400	415.315.2450
<b>B</b>	Southern	415.553.1373	415.553.1073
<b>C</b>	Bayview	415.671.2300	415.671.2345
<b>D</b>	Mission	415.558.5414	415.558.5447
<b>E</b>	Northern	415.614.3400	415.614.3434
<b>F</b>	Park	415.242.3000	415.242.3005
<b>G</b>	Richmond	415.666.8000	415.666.8060
<b>H</b>	Ingleside	415.404.4000	415.404.4008
<b>I</b>	Taraval	415.759.3100	415.753.7220
<b>J</b>	Tenderloin	415.345.7300	415.345.7370

**Sergeant Marty Halloran & Sergeant Jerry D'Arcy office: 415.553.7942**

**APPENDIX E**  
**SIGN CHARTS**



Note: The California Sign Chart contains commonly used signs in California, and is not meant to be used as a comprehensive sign chart. [Information on use, placement and policy is available in the California MUTCD](http://www.dot.ca.gov/hq/traffops/signtech/mutcdsupp/) (<http://www.dot.ca.gov/hq/traffops/signtech/mutcdsupp/>). [Information relating to design and manufacture of each sign is provided on the Caltrans Sign Specification Sheets](http://www.dot.ca.gov/hq/traffops/signtech/signdel/specs.htm) (<http://www.dot.ca.gov/hq/traffops/signtech/signdel/specs.htm>) for CA coded signs or in the FHWA Standard Highway Signs Book ([http://mutcd.fhwa.dot.gov/ser-shs\\_millennium.htm](http://mutcd.fhwa.dot.gov/ser-shs_millennium.htm)) for MUTCD coded signs.

**California Sign Chart**  
 Sheet 1 of 12 - Federal Regulatory Signs

California Department of Transportation  
 Signs and Work Zones Branch  
 January 2010

The chart contains commonly used signs in California, and is not meant to be used as a comprehensive sign chart. California codes are designated by (CA). Otherwise Federal codes are shown. For a complete directory of signs, visit [www.dot.ca.gov/hq/traffops/signtech/signdel/index.htm](http://www.dot.ca.gov/hq/traffops/signtech/signdel/index.htm).

The chart displays 100 signs arranged in a grid. The signs include:

- Regulatory Signs (R):**
  - STOP (R1-1)
  - YIELD (R1-2)
  - TO ONCOMING TRAFFIC (R1-2a)
  - 4-WAY ALL WAY (R1-4)
  - HERE TO PEDESTRIANS (R1-5a)
  - SPEED LIMIT 50 (R2-1)
  - NO RIGHT TURN (R3-1)
  - NO LEFT TURN (R3-1)
  - NO U-TURN (R3-2)
  - NO TURN ON RED (R3-2)
  - NO RIGHT TURN (R3-3)
  - NO LEFT TURN (R3-4)
  - NO U-TURN (R3-4)
  - ONLY (R3-5)
  - ONLY (R3-5a)
  - ONLY (R3-6)
  - RIGHT LANE MUST TURN RIGHT ONLY (R3-7)
  - ONLY (R3-8)
  - ONLY (R3-8a)
  - ONLY (R3-8b)
  - ONLY (R3-9a)
  - BUS LANE AHEAD (R3-10a)
  - BUSES ONLY (R3-11b)
  - BUS & TAXI ONLY (R3-14b)
  - NO RIGHT TURN (R3-18)
  - NO LEFT TURN (R3-18)
  - DO NOT PASS (R4-1)
  - SLOWER TRAFFIC KEEP RIGHT (R4-3)
  - TRUCKS USE RIGHT LANE (R4-5)
  - TRUCK LANE 500 FEET (R4-6)
  - ONLY (R4-7)
  - KEEP RIGHT (R4-7a)
  - KEEP RIGHT (R4-7b)
  - ONLY (R4-8)
  - RUNAWAY VEHICLES ONLY (R4-10)
  - DO NOT ENTER (R5-1)
  - DO NOT ENTER (R5-1)
  - WRONG WAY (R5-1a)
  - WRONG WAY (R5-1a)
  - NO BICYCLES (R5-6)
  - PEDESTRIANS BICYCLES MOTOR-DRIVEN CYCLES PROHIBITED (R5-10a)
  - PEDESTRIANS PROHIBITED (R6-1)
  - ONE WAY (R6-2)
  - DIVIDED HIGHWAY (R6-3)
  - DIVIDED HIGHWAY (R6-3a)
  - VAN ACCESSIBLE (R7-8b)
  - NO PARKING BIKE LANE (R7-9)
  - EMERGENCY PARKING ONLY (R8-4)
  - DO NOT STOP ON TRACKS (R8-6)
  - CROSS ONLY AT CROSS WALKS (R9-2)
  - NO PEDESTRIAN CROSSING (R9-3)
  - NO PEDESTRIAN CROSSING (R9-3a)
  - USE CROSSWALK (R9-3b)
  - PUSH BUTTON FOR GREEN LIGHT (R10-3)
  - PUSH BUTTON FOR WALK SIGNAL (R10-4)
  - PUSH BUTTON FOR (R10-4b)
  - STOP HERE ON RED (R10-6)
  - DO NOT BLOCK INTERSECTION (R10-7)
  - LEFT TURN YIELD ON GREEN (R10-12)
  - TURNING TRAFFIC MUST YIELD TO PEDESTRIANS (R10-15)
  - ROAD CLOSED (R11-2)
  - WEIGHT LIMIT 10 TONS (R12-1)
  - WEIGHT LIMIT 8T 12T 16T (R12-5)
  - TRUCK ROUTE (R14-1)
  - RAILROAD CROSSING (R15-1)
  - 3 TRACKS (R15-2)
  - WHEN CHILDREN ARE PRESENT (S4-2)
  - END SCHOOL ZONE (SS-2)
- Activated Blankout Signs:**
  - R1-5a
  - R3-1
  - R3-2
  - R3-3
  - R3-4
  - R3-4
  - R3-18
  - R3-18
  - R5-1
  - R5-1
  - R5-1a
  - R5-1a

# California Sign Chart

## Sheet 2 of 12 - California Regulatory Signs

California Department of Transportation  
Signs and Work Zones Branch  
January 2010



This chart contains commonly used signs in California, and is not meant to be used as a comprehensive sign chart. California codes are designated by (CA). Otherwise Federal codes are shown. For a complete directory of signs, visit [www.dot.ca.gov/hq/traffops/signtech/signdel/index.htm](http://www.dot.ca.gov/hq/traffops/signtech/signdel/index.htm).

R2-4 (CA)	R3 (CA)	R6-3 (CA)	R6-3A (CA)	R6-4 (CA)	R6-4A (CA)	R13A (CA)	R13B (CA)	R16A (CA)	R18A (CA)
R18B (CA)	R20A (CA)	R20D-1 (CA)	R20D-3 (CA)	R20D-4 (CA)	R20H (CA)	R20-1 (CA)	R20-1A (CA)	R21 (CA)	R22 (CA)
R23 (CA)	R24 (CA)	R24A (CA)	R24B (CA)	R24C (CA)	R24D (CA)	R24E (CA)	R25 (CA)	R25A (CA)	R25B (CA)
R25C (CA)	R25D (CA)	R25E (CA)	R25F (CA)	R25H (CA)	R25J (CA)	R26 (CA)	R26A (CA)	R26A(S) (CA)	R26F (CA)
R26K (CA)	R26L (CA)	R26(S) (CA)	R27 (CA)	R27A (CA)	R28 (CA)	R28(S) (CA)	R28A (CA)	R28A(S) (CA)	R28C (CA)
R28D (CA)	R28D(S) (CA)	R28E (CA)	R28F (CA)	R29 (CA)	R30 (CA)	R30A (CA)	R30B (CA)	R30C (CA)	R30D (CA)
R30E (CA)	R30F (CA)	R31 (CA)	R31(S) (CA)	R32 (CA)	R32B (CA)	R32C (CA)	R32D (CA)	R32E (CA)	R32F (CA)
R33 (CA)	R33A (CA)	R33B (CA)	R33C (CA)	R36 (CA)	R37 (CA)	R38 (CA)	R38(S) (CA)	R38A (CA)	R39 (CA)
R38-1 (CA)	R38-2 (CA)	R40 (CA)	R44A (CA)	R44B (CA)	R44C (CA)	R47 (CA)	R47A (CA)	R48 (CA)	R48-1 (CA)
R48-2 (CA)	R51 (CA)	R50 (CA)	R52 (CA)	R52A (CA)	R53A (CA)	R53B (CA)	R53D (CA)	R53E (CA)	R55 (CA)

# California Sign Chart

## Sheet 3 of 12 - California Regulatory Signs

California Department of Transportation  
Signs and Work Zones Branch  
January 2010



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R57 (CA)	R58 (CA)	R60B (CA)	R61-1 (CA)	R61-3 (CA)	R61-5 (CA)	R61-7 (CA)	R61-9 (CA)	R61-11 (CA)	R61-13 (CA)
R61-15 (CA)	R61-17 (CA)	R61-19 (CA)	R61-22 (CA)	R61-24 (CA)	R61-26 (CA)	R61-28 (CA)	R61-30 (CA)	R61-32 (CA)	R61-34 (CA)
R61-36 (CA)	R62C (CA)	R62E (CA)	R70 (CA)	R73-1 (CA)	R73-2 (CA)	R73-3 (CA)	R73-4 (CA)	R73-5 (CA)	R73-6 (CA)
R73-8 (CA)	R73-9 (CA)	R74 (CA)	R75 (CA)	R76 (CA)	R76-1 (CA)	R77 (CA)	R78 (CA)	R79 (CA)	R80-1 (CA)
R81 (CA)	R81A (CA)	R81B (CA)	R82A (CA)	R82B (CA)	R82-1 (CA)	R84-1 (CA)	R84-2 (CA)	R86 (CA)	R86-2 (CA)
R86-3 (CA)	R87-1 (CA)	R87-2 (CA)	R88 (CA)	R88-1 (CA)	R88-2 (CA)	R88-3 (CA)	R89-1 (CA)	R91 (CA)	R91-1 (CA)
R91-3 (CA)	R91B (CA)	R92 (CA)	R93A (CA)	R93-2 (CA)	R94 (CA)	R99 (CA)	R99B (CA)	R99C (CA)	R100A (CA)
R100B (CA)	R101 (CA)	R102 (CA)	R102A (CA)	R103 (CA)	R103A (CA)	R104 (CA)	R104A (CA)	R105 (CA)	R105A (CA)
S3-1 (CA)	S8 (CA)	S20 (CA)	S21 (CA)	S22 (CA)	S22-1 (CA)	S23 (CA)	S24 (CA)	S30-1 (CA)	S30-2 (CA)
S30-3 (CA)	S30-4 (CA)	S30-5 (CA)	S33 (CA)	S34 (CA)	SR2 (CA)	SR5-1 (CA)	SR6-1 (CA)	SR7-1 (CA)	SR8-1 (CA)

# California Sign Chart

## Sheet 5 of 12 - Federal Warning Signs

This chart contains commonly used signs in California, and is not meant to be used as a comprehensive sign chart. California codes are designated by (CA). Otherwise Federal codes are shown. For a complete directory of signs, visit [www.dot.ca.gov/hq/traffops/signtech/signdel/index.htm](http://www.dot.ca.gov/hq/traffops/signtech/signdel/index.htm).

California Department of Transportation  
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W1-1	W1-1a	W1-2	W1-2a	W1-3	W1-4	W1-5	W1-6	W1-7	W1-8
W1-10	W1-13	W1-15	W2-1	W2-2	W2-4	W2-5	W3-1	W3-2	W3-3
W3-3a	W4-1	W4-2	W4-3	W4-4p	W4-7	W5-1	W5-2	W5-3	W6-1
W6-2	W6-3	W7-1b	W7-2b	W7-3	W7-3a	W7-3b	W7-4	W7-4b	W8-1
W8-2	W8-3	W8-4	W8-5	W8-8	W8-1	W10-1	W10-1a	W10-2	W10-12
W11-1	W11-2	W11-3	W11-4	W11-5	W11-7	W12-1	W12-2	W12-2p	W13-1
W13-2	W13-3	W14-1	W14-2	W14-3	W15-1	W16-1	W16-2	W16-2a	W16-7p
W16-9p	S1-1	S3-1	S4-3	S4-5	S4-5a				

# California Sign Chart

## Sheet 6 of 12 - California Warning Signs

California Department of Transportation  
Signs and Work Zones Branch  
January 2010



This chart contains commonly used signs in California, and is not meant to be used as a comprehensive sign chart. California codes are designated by (CA). Otherwise Federal codes are shown. For a complete directory of signs, visit [www.dot.ca.gov/hq/traffops/signtech/signdel/index.htm](http://www.dot.ca.gov/hq/traffops/signtech/signdel/index.htm).

W4-1 (CA)	W4-10 (CA)	W4-14 (CA)	W4-18 (CA)	W4-22 (CA)	W11-1 (CA)	W20 (CA)	W20A (CA)	W30B (CA)	W30C (CA)
W31 (CA)	W31A (CA)	W34A (CA)	W34C (CA)	W38 (CA)	W43 (CA)	W44A (CA)	W46A (CA)	W48 (CA)	W49 (CA)
W50 (CA)	W50-1 (CA)	W51 (CA)	W55 (CA)	W55B (CA)	W58-1 (CA)	W61A (CA)	W61B (CA)	W61C (CA)	W61D (CA)
W61F (CA)	W61G (CA)	W61H (CA)	W66B (CA)	W69 (CA)	W70 (CA)	W72B (CA)	W73 (CA)	W73A (CA)	W74-1 (CA)
W75-1 (CA)	W82 (CA)	W82-1 (CA)	W83 (CA)	SW4-1 (CA)	SW17-1 (CA)	SW22-1 (CA)	SW22-1A (CA)	SW26 (CA)	SW28 (CA)
SW32 (CA)	SW35 (CA)	SW36 (CA)	SW37 (CA)	SW38 (CA)	SW41 (CA)	SW44 (CA)	SW45 (CA)	SW46 (CA)	SW47 (CA)
SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)					
SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)					
SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)					
SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)					
SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)					
SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)					
SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)					
SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)					
SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)					
SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)					
SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)					
SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)					
SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)					
SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)					
SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)					
SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)					
SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)					
SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)					
SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)					
SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)					
SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)					
SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)					
SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)					
SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)					
SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)					
SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)					
SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)					
SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)	SW48 (CA)					

# California Sign Chart

## Sheet 11 of 12 - Federal Temporary Traffic Control Signs

This chart contains commonly used signs in California, and is not meant to be used as a comprehensive sign chart.

California codes are designated by (CA). Otherwise Federal codes are shown. For a complete directory of signs, visit [www.dot.ca.gov/hq/traffops/signtech/signdel/index.htm](http://www.dot.ca.gov/hq/traffops/signtech/signdel/index.htm).

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E5-2	E5-2a	G20-1	G20-2	G20-4	G20-5aP	M4-8	M4-8a	M4-9a	M4-10
									
R2-12	R3-1	R4-1	R8-11a	R11-2	R11-2 (Alternates)	R11-3a	R11-4	W1-4	W1-6
									
W1-8	W3-3	W3-4	W3-5	W3-5a	W4-1	W4-2	W8-6	W8-7	W8-9
									
W8-3	W8-12	W12-1	W12-2	W14-3	W16-2	W20-1	W20-1 (Alternate)	W20-2	W20-3
									
W20-3 (Alternate)	W20-4	W20-5	W20-5a	W21-1	W21-1a	W21-2	W21-3	W21-5	W21-5b
									
W21-6	W21-7	W22-1	W22-2	W22-3	W23-1	Paddle	Paddle		

# California Sign Chart

## Sheet 12 of 12 - California Temporary Traffic Control Signs

This chart contains commonly used signs in California, and is not meant to be used as a comprehensive sign chart.

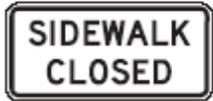
California codes are designated by (CA). Otherwise Federal codes are shown. For a complete directory of signs, visit [www.dot.ca.gov/hq/traffops/signstech/signdel/index.htm](http://www.dot.ca.gov/hq/traffops/signstech/signdel/index.htm).

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C9A (CA)	C12 (CA)	Front C17 (CA)	Back C17 (CA)	C20 (CA)	C20A (CA)	C20B (CA)	C23B (CA)	C24 (CA)	C27 (CA)	C29 (CA)
C30 (CA)	C30A (CA)	C31A (CA)	C37 (CA)	C37 (CA)	C38 (CA)	C40 (CA)	C40A (CA)	C43 (CA)	C44 (CA)	
SC3 (CA)	SC5 (CA)	SC6-3 (CA)	SC6-4 (CA)	S06A (CA)	S06B (CA)	SC7 (CA)	SC8 (CA)	SC9 (CA)	SC10 (CA)	
SC11 (CA)	SC13 (CA)	SC15 (CA)	SC18 (CA)	SC19 (CA)	SC20 (CA)	SC21 (CA)	Type R (CA)	Type P (CA)	Type N (CA)	
Type II Barricade	Cone, Tubular Marker, Channelizer	Plastic Drum								

## ADDITIONAL PEDESTRIAN SIGNS (CAMUTCD 2006)



R9-9



R9-10

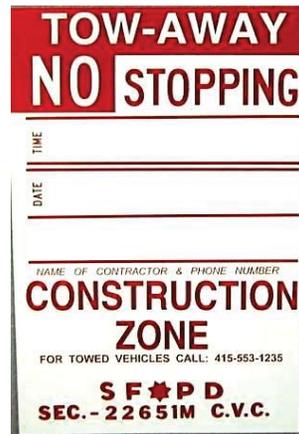


R9-11



R9-11a

## TEMPORARY "TOW-AWAY NO STOPPING" SIGNS



Regular Tow-Away Sign

(Must be posted continuously for and registered 72 hours in advance of effective date and time.)

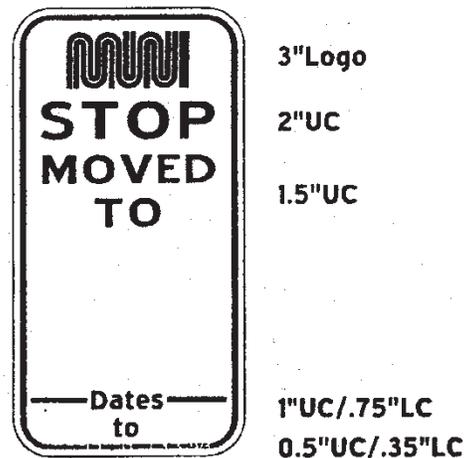
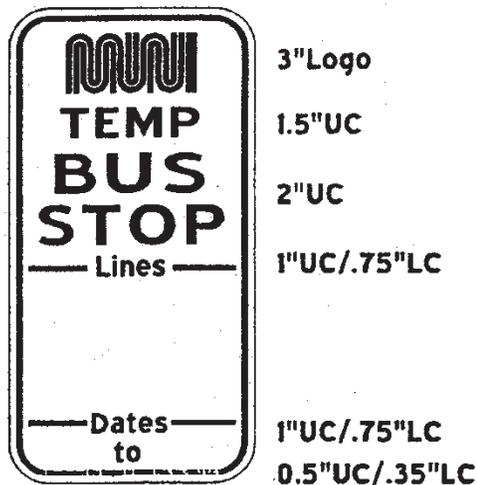
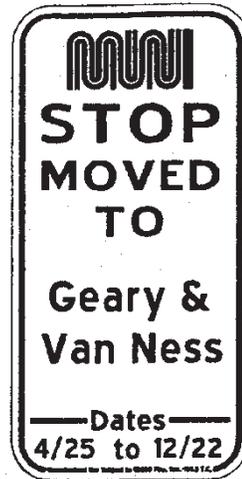
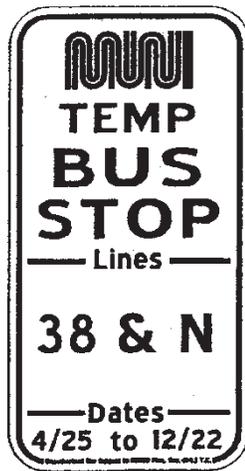
## BICYCLE SIGNS



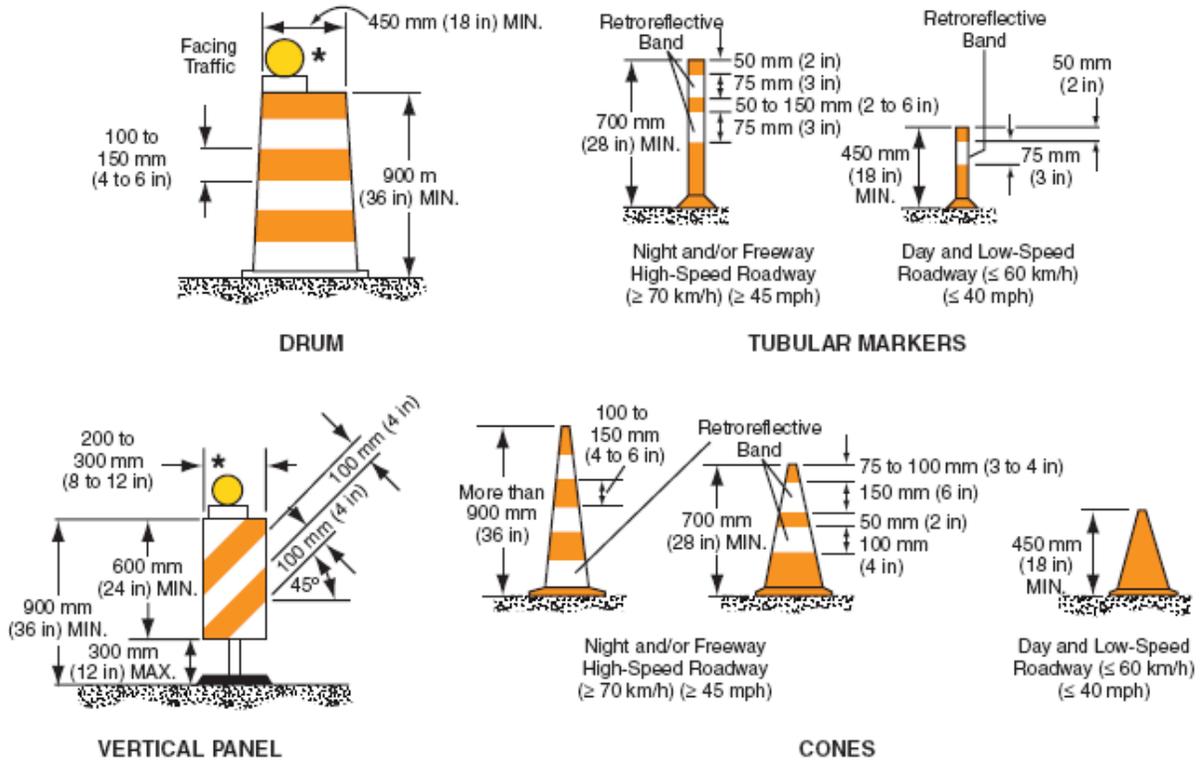
(CAMUTCD 2010)

**Muni TEMPORARY BUS STOP SIGNS**

All signs are 12" x 24", black on orange. Unauthorized use of these signs is a violation of this manual and is subject to fines of up to \$5,000.

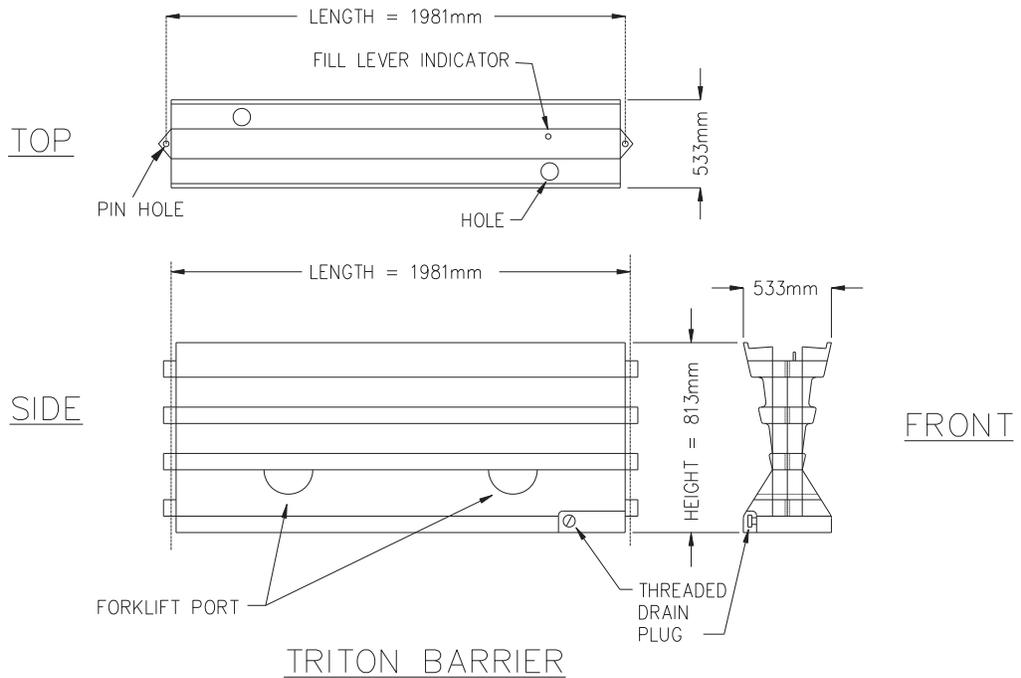


# CHANNELIZING DEVICES

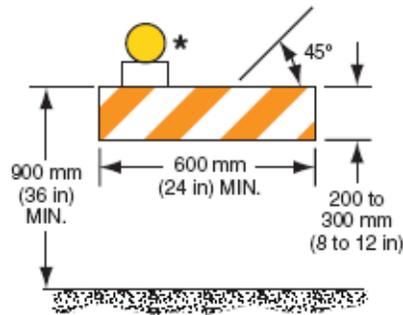


\* Warning lights (optional)

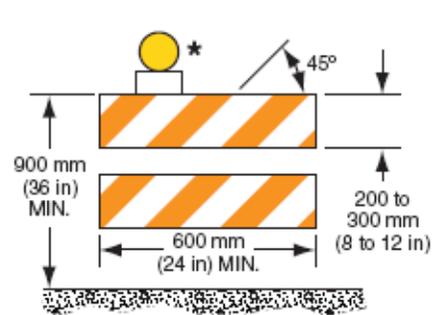
Note: If drums, cones, or tubular markers are used to channelize pedestrians, they shall be located such that there are no gaps between the bases of the devices, in order to create a continuous bottom, and the height of each individual drum, cone, or tubular marker shall be no less than 900 mm (36 in) to be detectable to users of long canes.



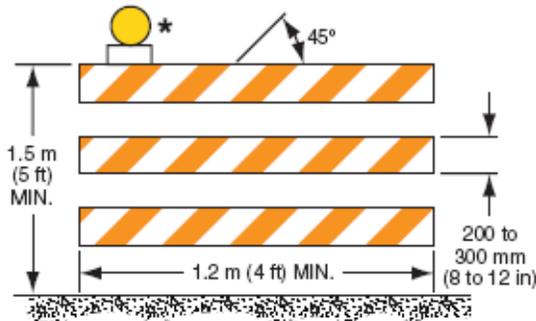
## CHANNELIZING DEVICES (cont'd)



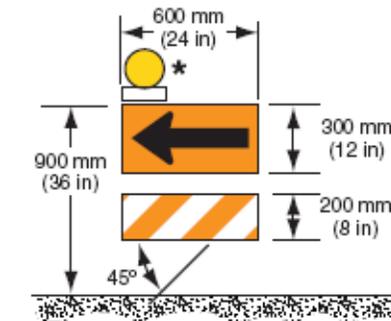
**TYPE I BARRICADE \*\***



**TYPE II BARRICADE \*\***



**TYPE III BARRICADE \*\***



**DIRECTION INDICATOR BARRICADE \*\***

\* Warning lights (optional)

\*\* Rail stripe widths shall be 150 mm (6 in), except that 100 mm (4 in) wide stripes may be used if rail lengths are less than 900 mm (36 in). The sides of barricades facing traffic shall have retroreflective rail faces.

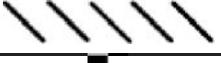
Note: If barricades are used to channelize pedestrians, there shall be continuous detectable bottom and top rails with no gaps between individual barricades to be detectable to users of long canes. The bottom of the bottom rail shall be no higher than 150 mm (6 in) above the ground surface. The top of the top rail shall be no lower than 900 mm (36 in) above the ground surface.

**APPENDIX F**  
**TYPICAL LANE CLOSURE PLANS**



The following Lane Closure Plans and accompanying Tables are examples taken or adapted from the California MUTCD issued by Caltrans. They are included here for demonstrative purposes only. Prior to the implementation of any closure the Contractor shall consult these references for details and additional information regarding use, placement and policy. In addition, all closures are subject to the review and approval of the SFMTA and may require a Special Traffic Permit.

**Table 6H-2. Meaning of Symbols on Typical Application Diagrams**

Arrow panel	
Arrow panel support or trailer (shown facing down)	
Changeable message sign or support trailer	
Channelizing device	
Crash Cushion	
Direction of temporary traffic detour	
Direction of traffic	
Flagger	
High level warning device (Flag tree)	
Luminaire	
Pavement markings that should be removed for a long term project	
Sign (shown facing left)	
Surveyor	
Temporary barrier	
Temporary barrier with warning lights	
Traffic or Pedestrian signal	
Truck mounted attenuator	
Type III Barricade	
Warning lights	
Work space	
Work vehicle	

**Table 6H-3: Meaning of Letter Codes on Typical Application Diagrams  
Distance Between Signs\*\***

Road Type	A	B	C
Urban (low speed)*	30 m (100 ft)	30 m (100 ft)	30 m (100 ft)
Urban (high speed)*	100 m (350 ft)	100 m (350 ft)	100 m (350 ft)
Rural	150 m (500 ft)	150 m (500 ft)	150 m (500 ft)
Expressway / Freeway	300 m (1,000 ft)	450 m (1,500 ft)	800 m (2,640 ft)

\* Speed category to be determined by highway agency.

\*\* Distances are shown in meters (feet). The column headings A, B, and C correspond to the dimensions shown in the Figures. The A dimension is the distance from the transition or point of restriction to the first sign. The B dimension is the distance between the first and second signs. The C dimension is the distance between the second and third signs. (The third sign is the first one in a three-sign series encountered by a driver approaching a TTC zone.) 1 ft = 0.3048 m.

**Table 6H-4: Formulas for Determining Taper Lengths**

Speed Limit (S)	Taper Length (L)	Speed Limit (S)	Taper Length (L)
60 km/h or less	$L = \frac{WS^2}{155}$	40 mph or less	$L = \frac{WS^2}{60}$
70 km/h or more	$L = \frac{WS}{1.6}$	45 mph or more	$L = WS$

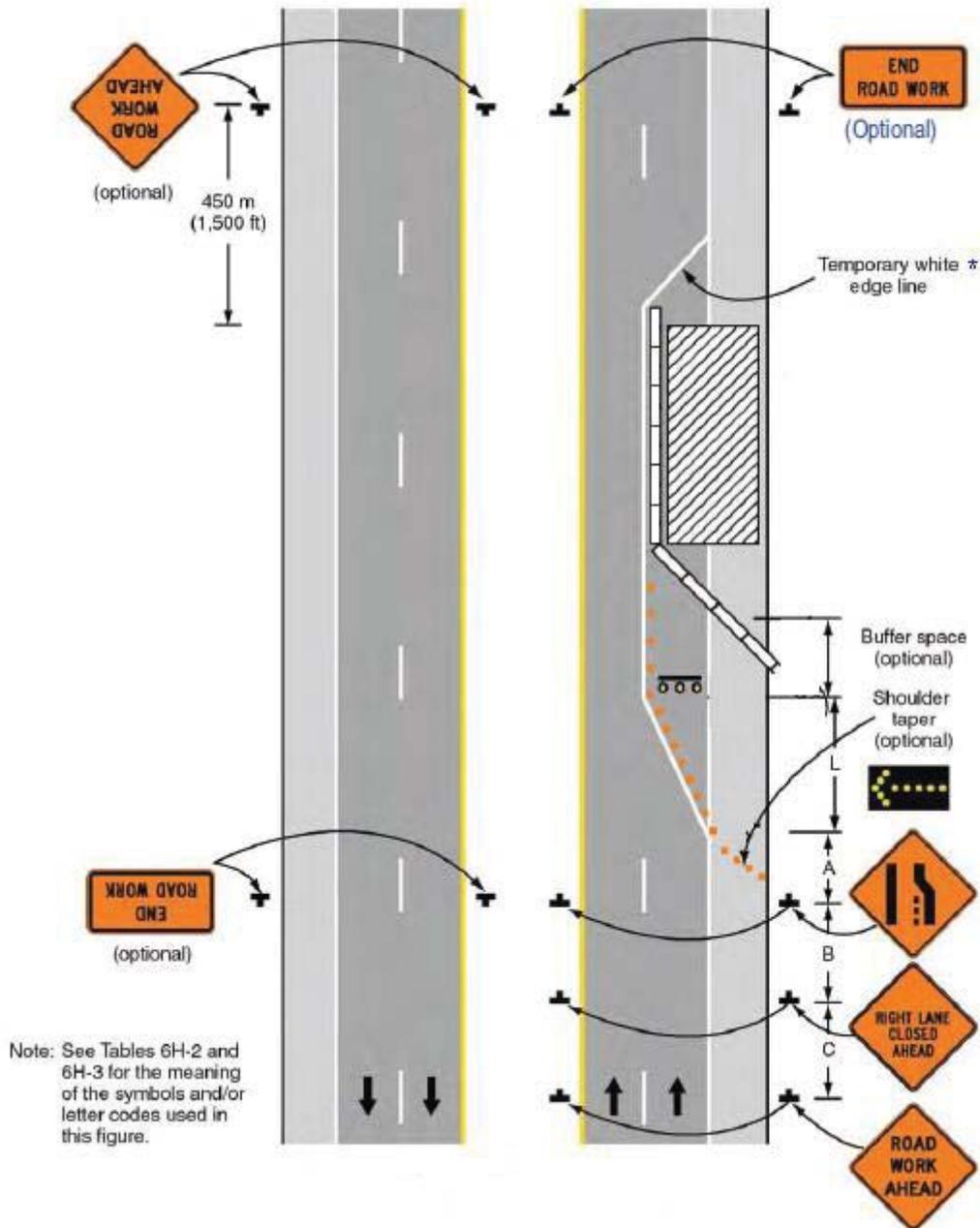
Where:

L = taper length in meters (feet)

W = width of offset in meters (feet)

S = posted speed limit, or off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in km/h (mph). 1 mph = 1.609344 km/h.

## Typical Right Lane Closure (SFMTA)



\* when required by SFMTA

Figure 6H-6. Shoulder Work with Minor Encroachment (TA-6)

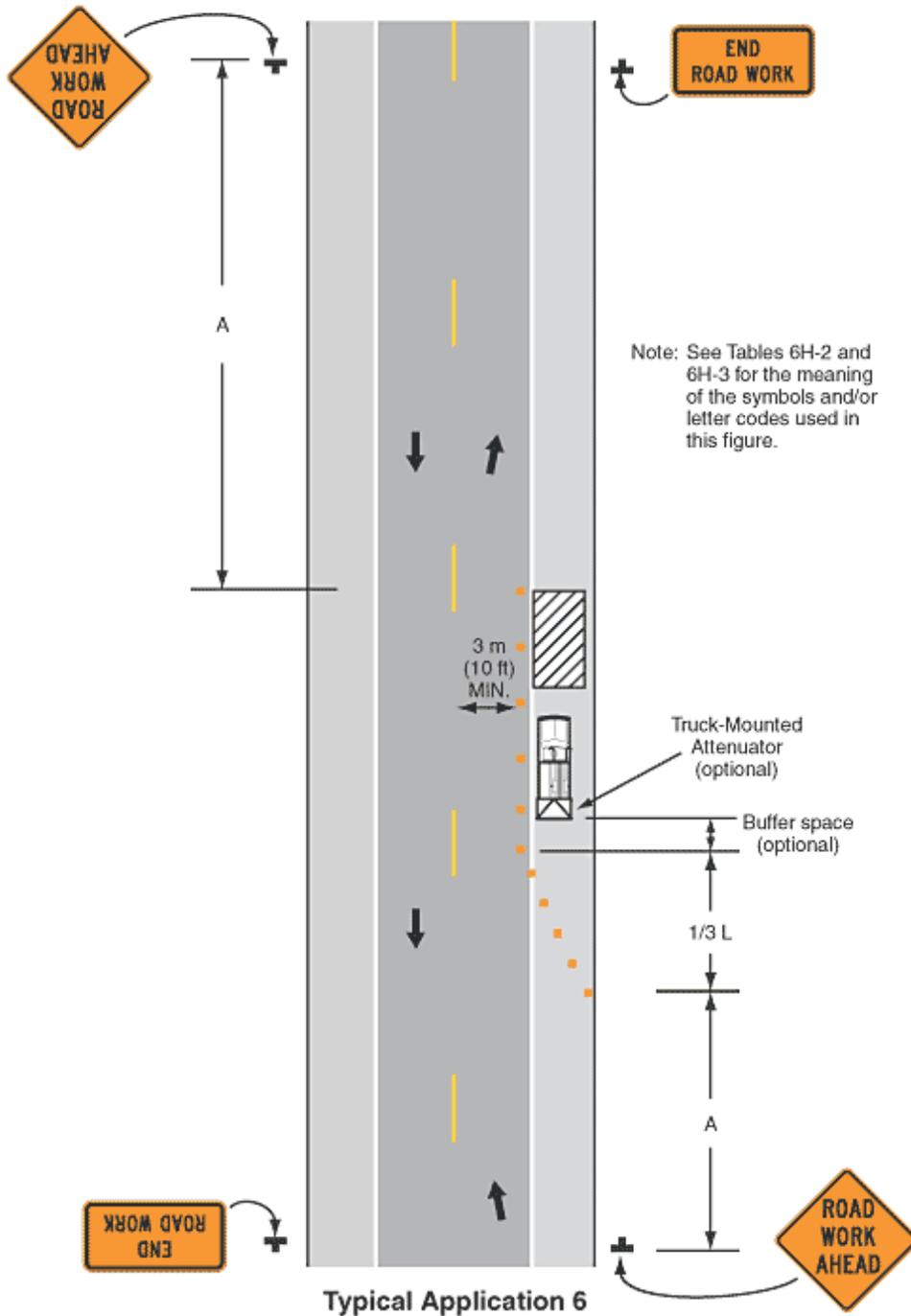
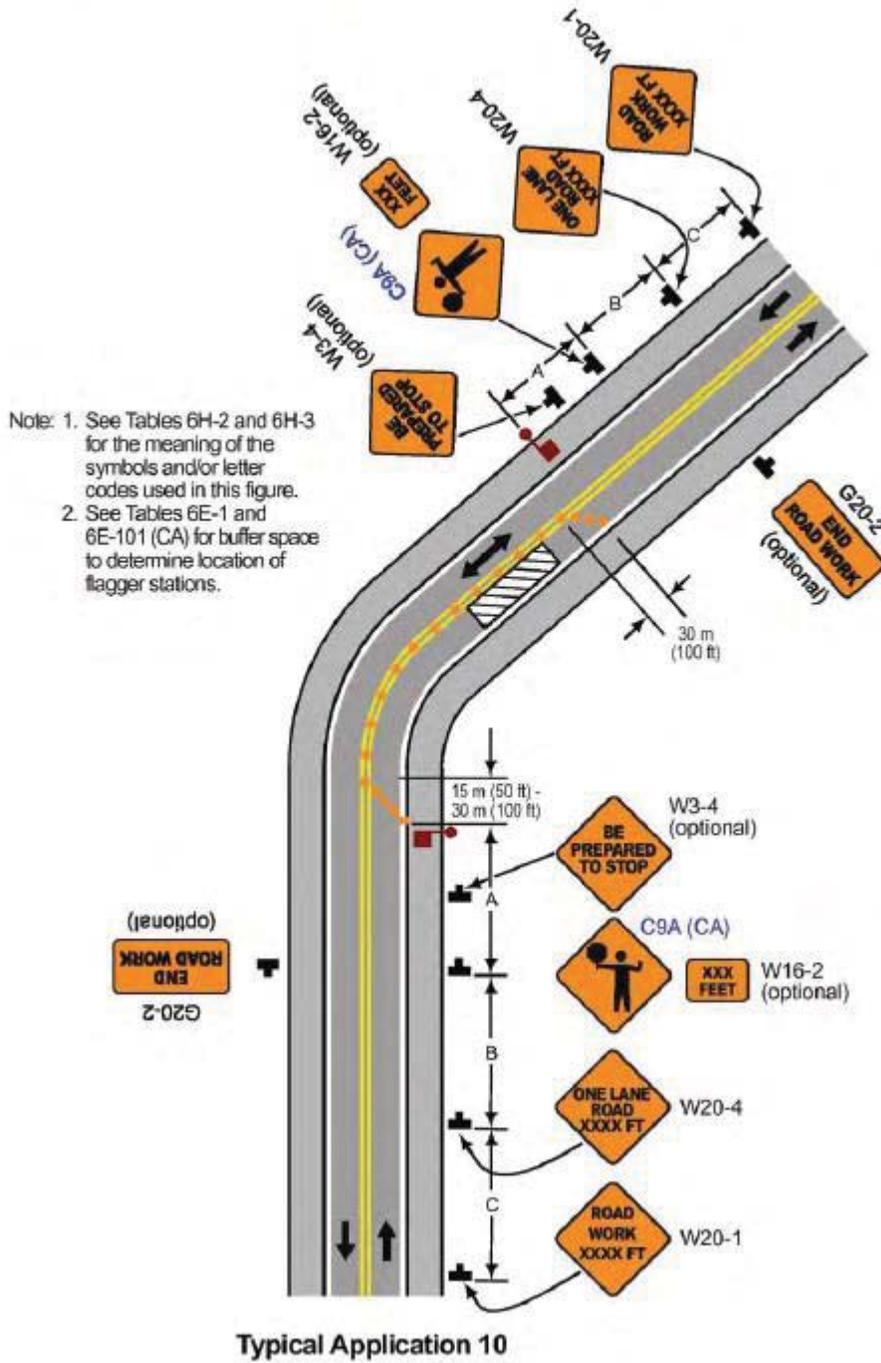
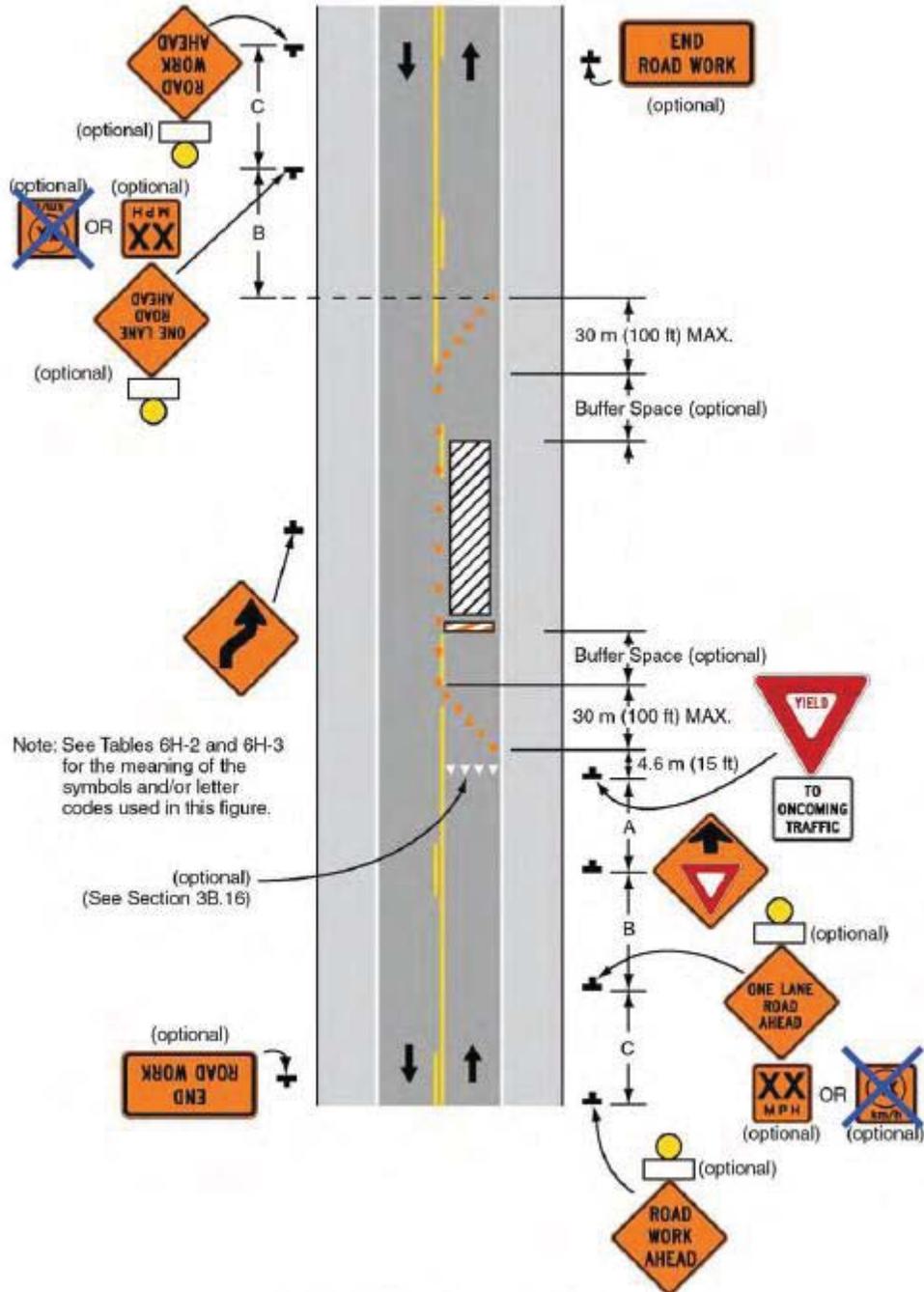


Figure 6H-10 (CA). Lane Closure on Two-Lane Road Using Flaggers (TA-10)



**Figure 6H-11. Lane Closure on Two-Lane Road with Low Traffic Volumes**



**Typical Application 11**

Figure 6H-15. Work in Center of Road with Low Traffic Volumes (TA-15)

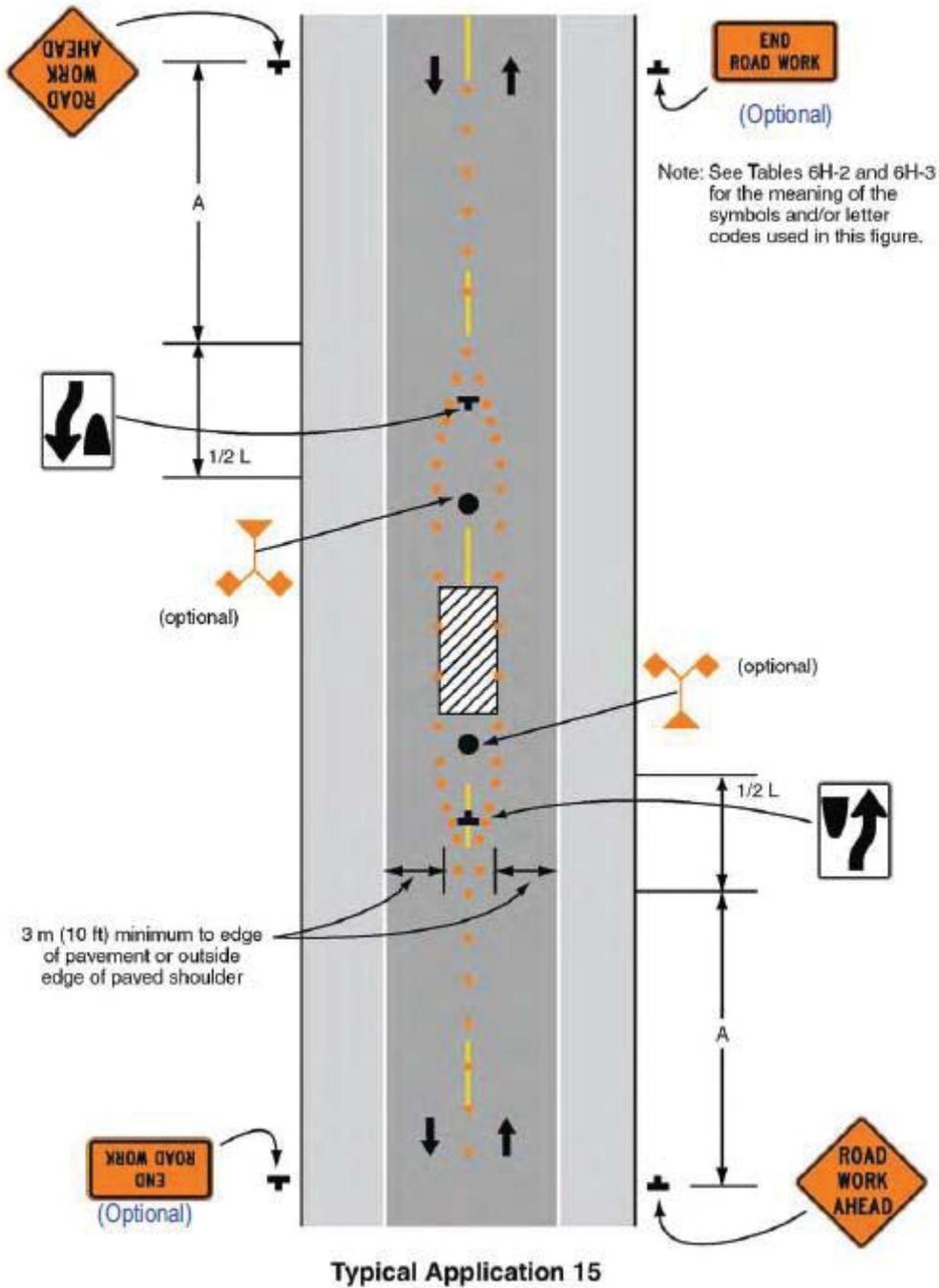


Figure 6H-21. Lane Closure on Near Side of Intersection (TA-21)

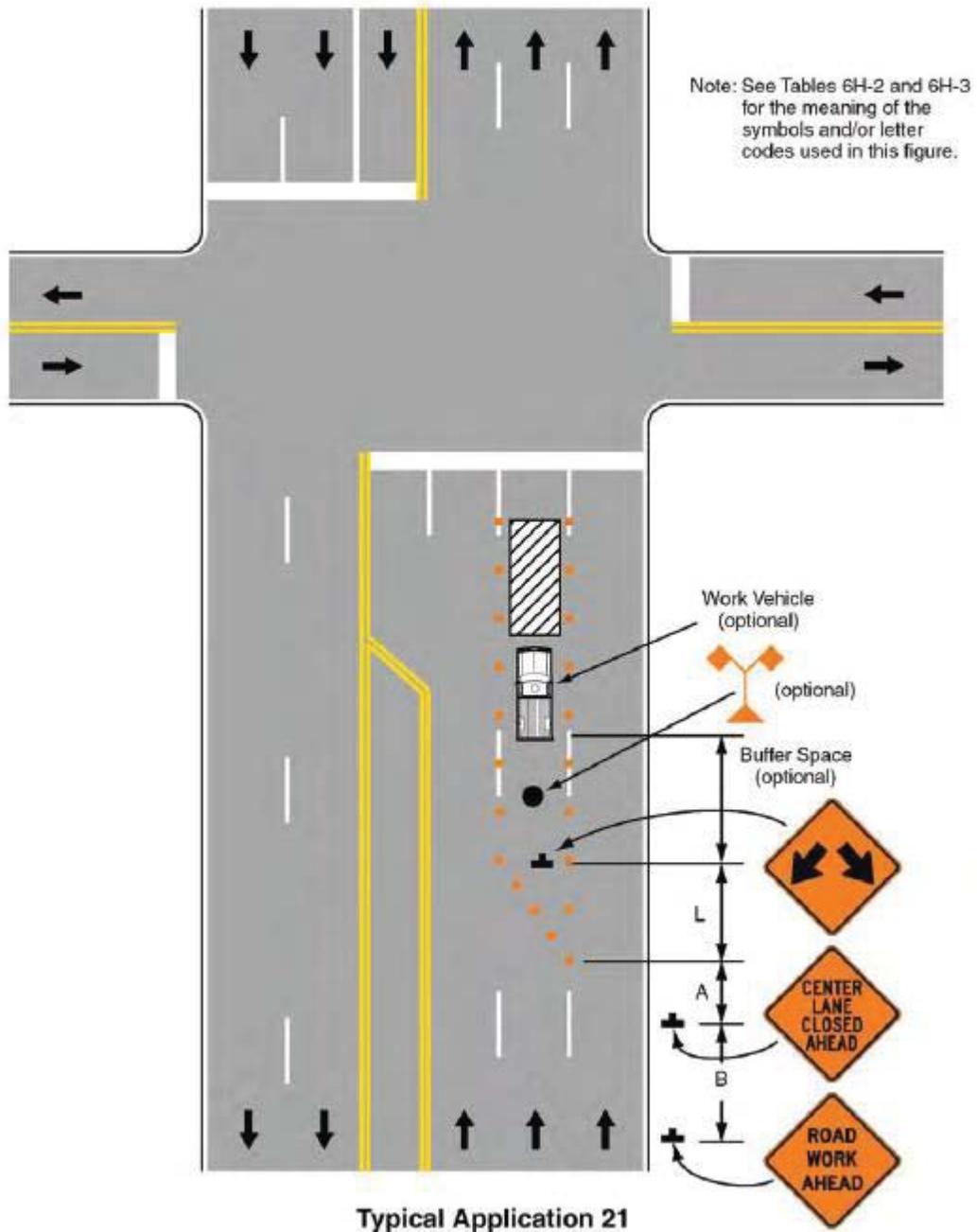


Figure 6H-22. Right Lane Closure on Far Side of Intersection (TA-22)

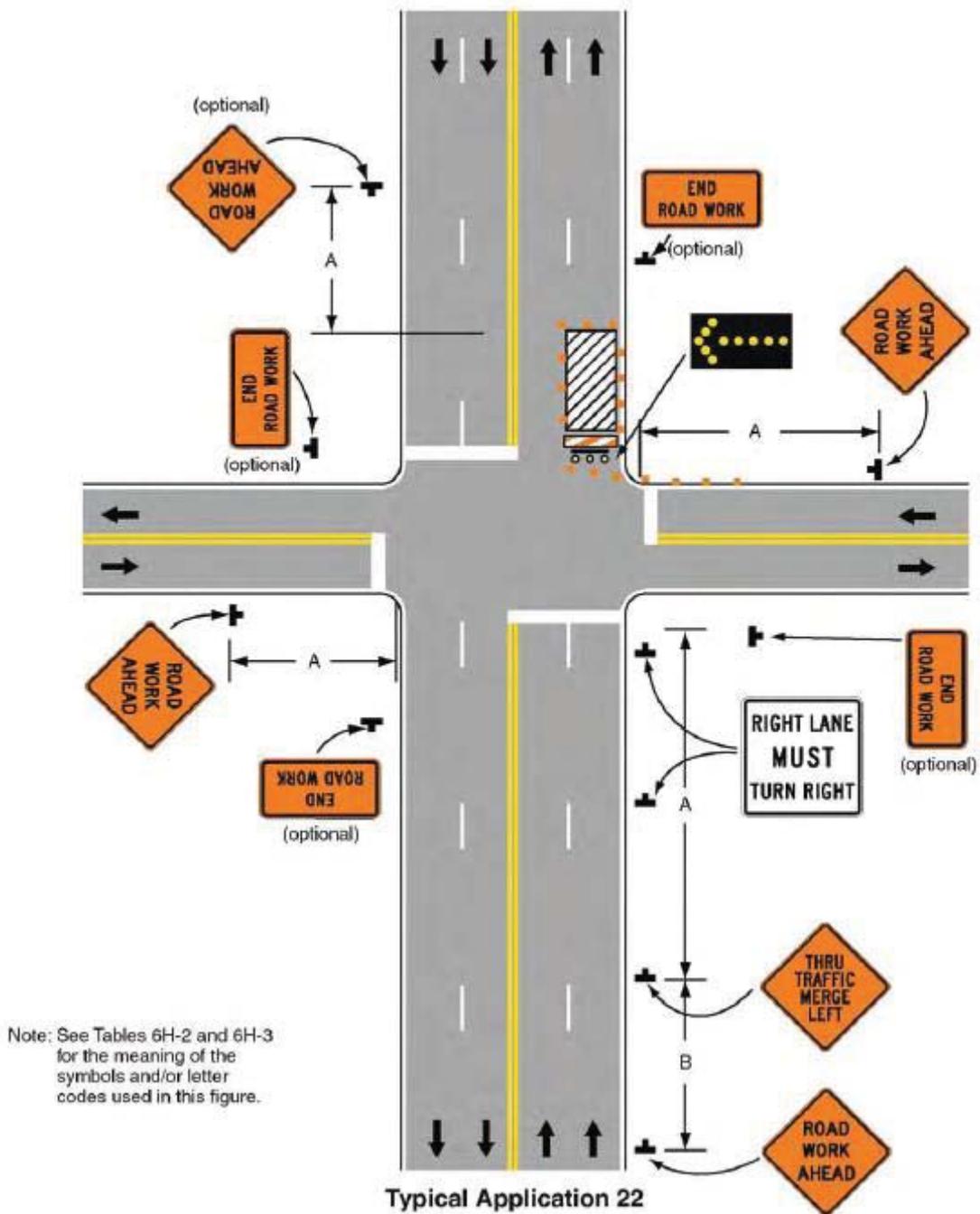


Figure 6H-23. Left Lane Closure on Far Side of Intersection (TA-23)

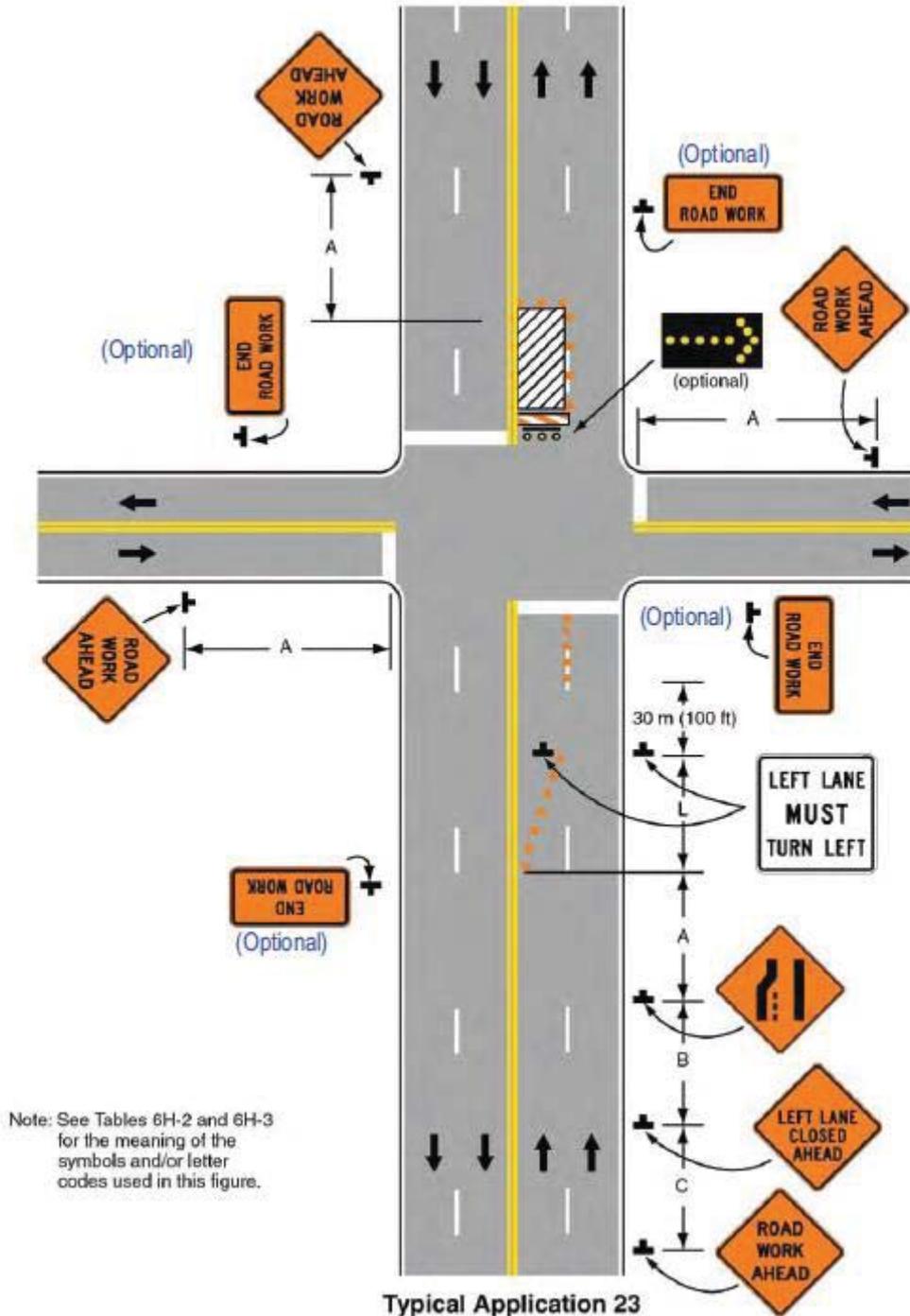
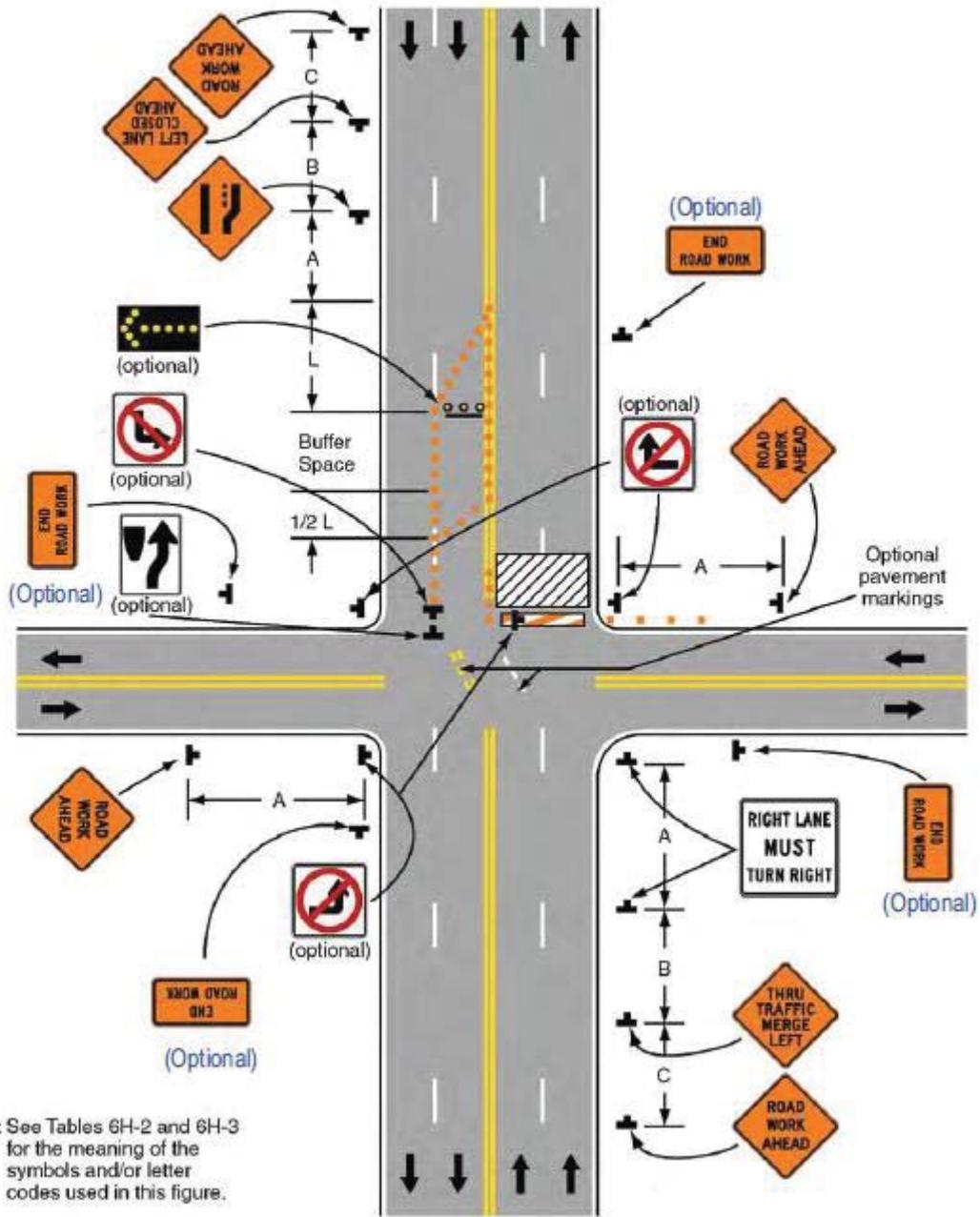


Figure 6H-24. Half Road Closure on Far Side of Intersection (TA-24)



Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

Typical Application 24

Figure 6H-25. Multiple Lane Closures at Intersection (TA-25)

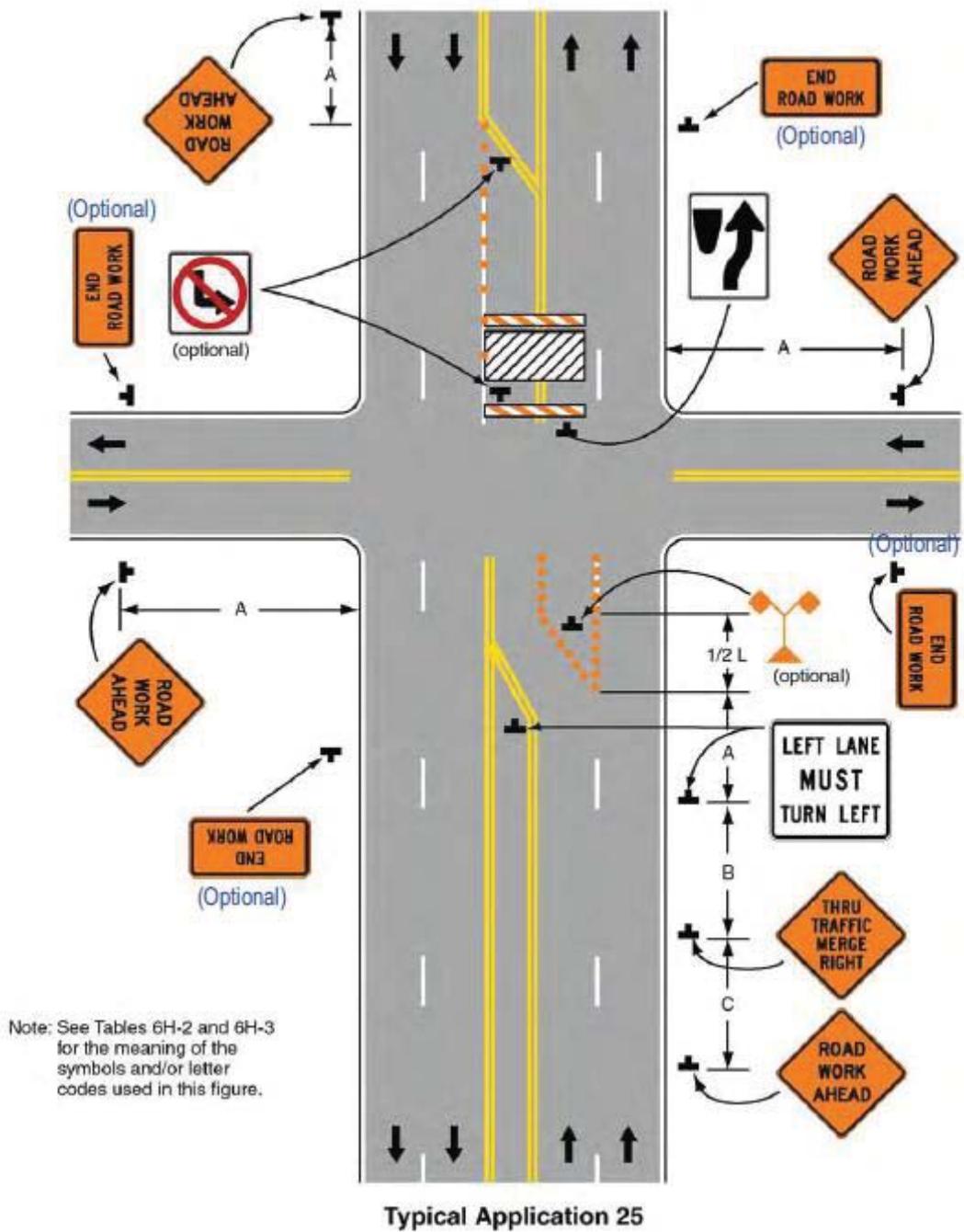


Figure 6H-26. Closure in Center of Intersection (TA-26)

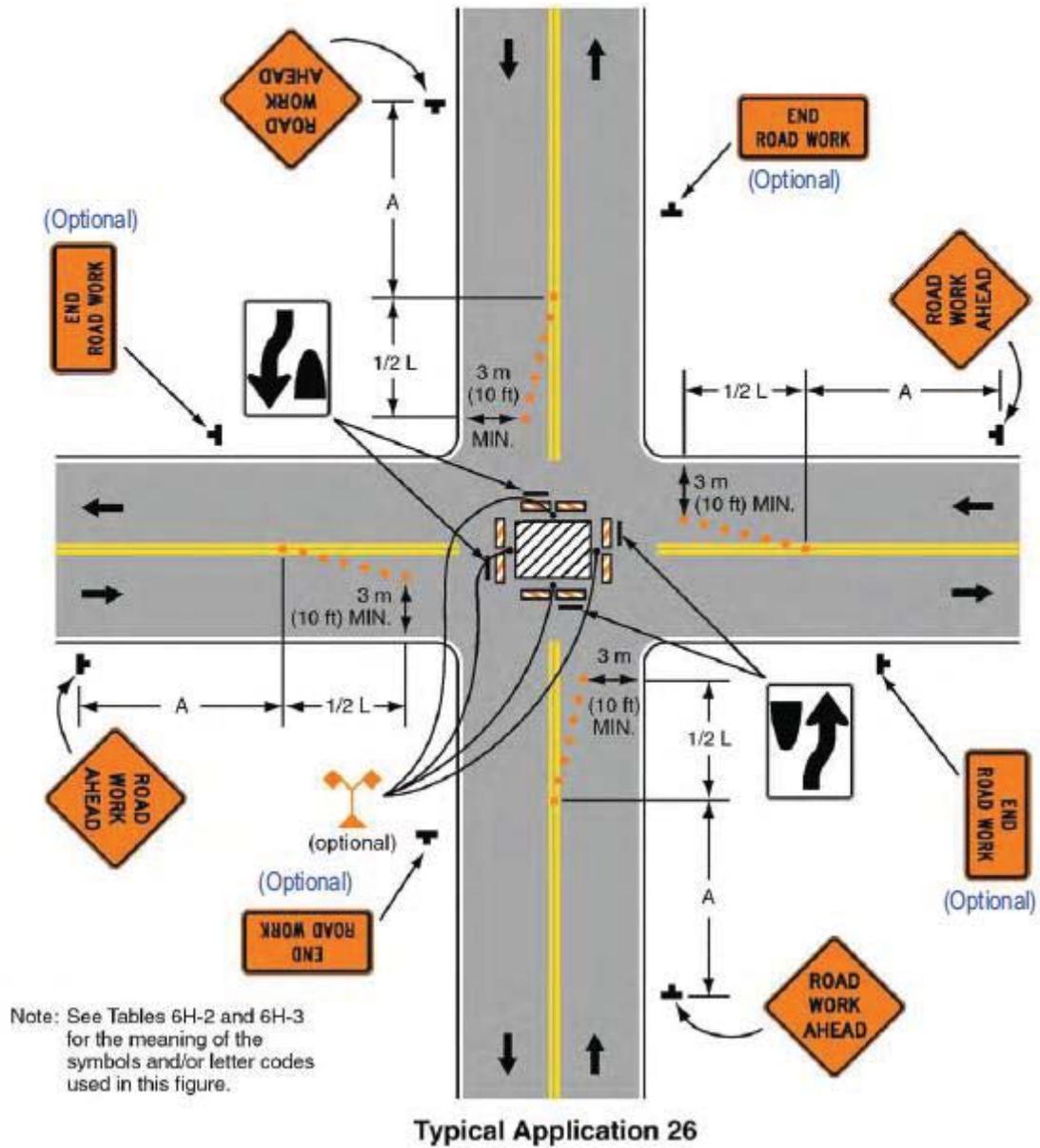


Figure 6H-27. Closure at Side of Intersection (TA-27)

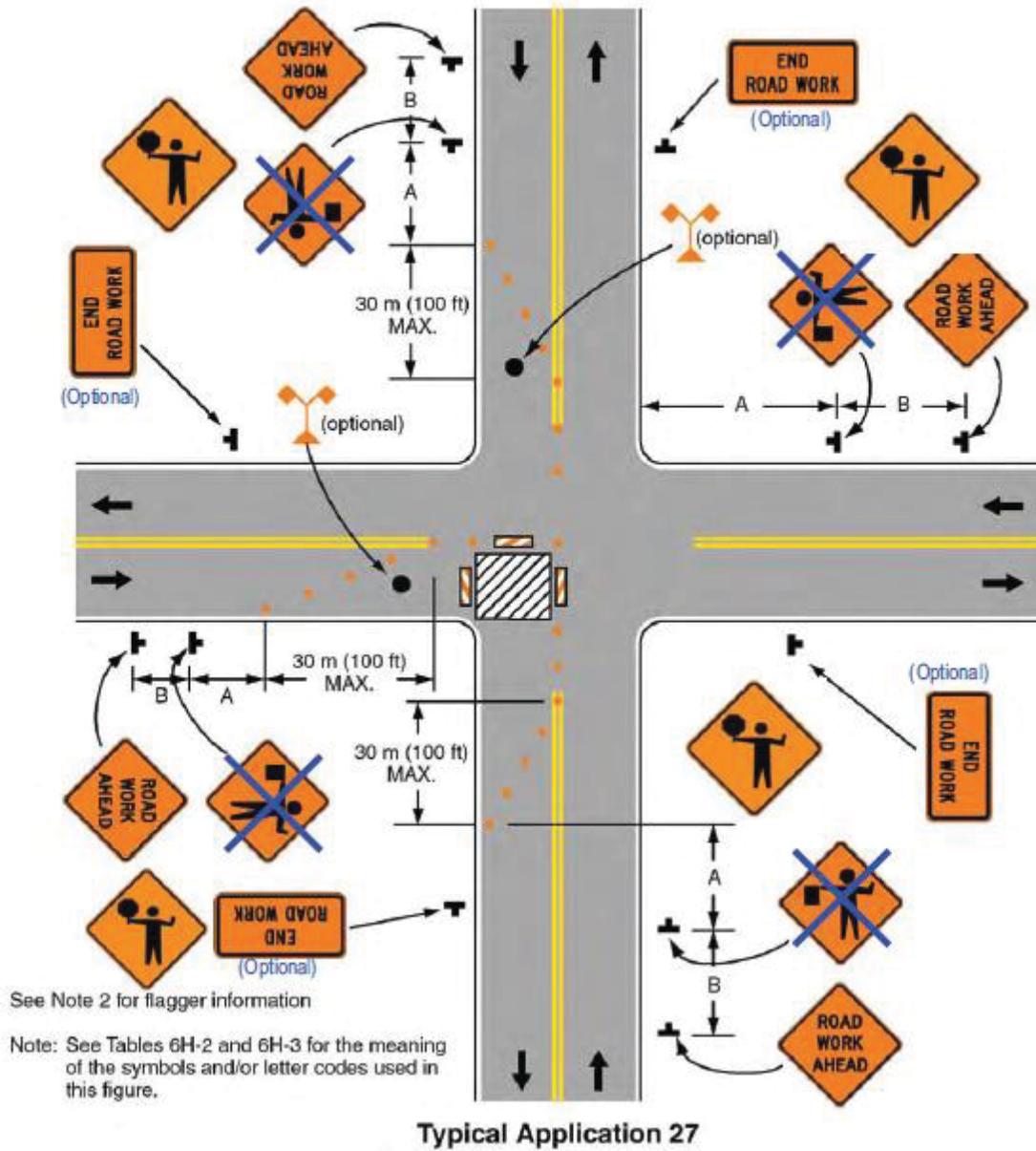


Figure 6H-30. Interior Lane Closure on Multi-lane Street (TA-30)

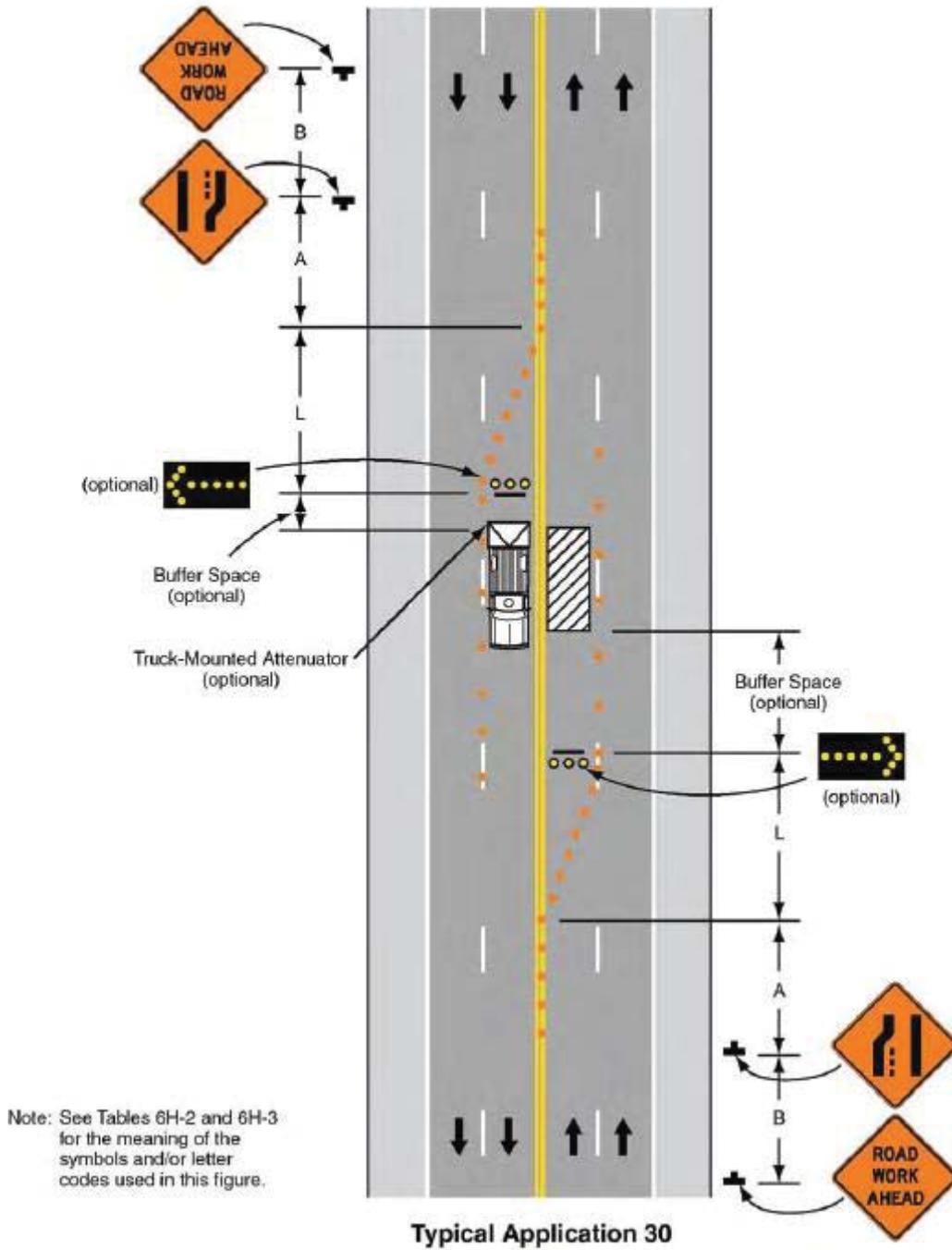
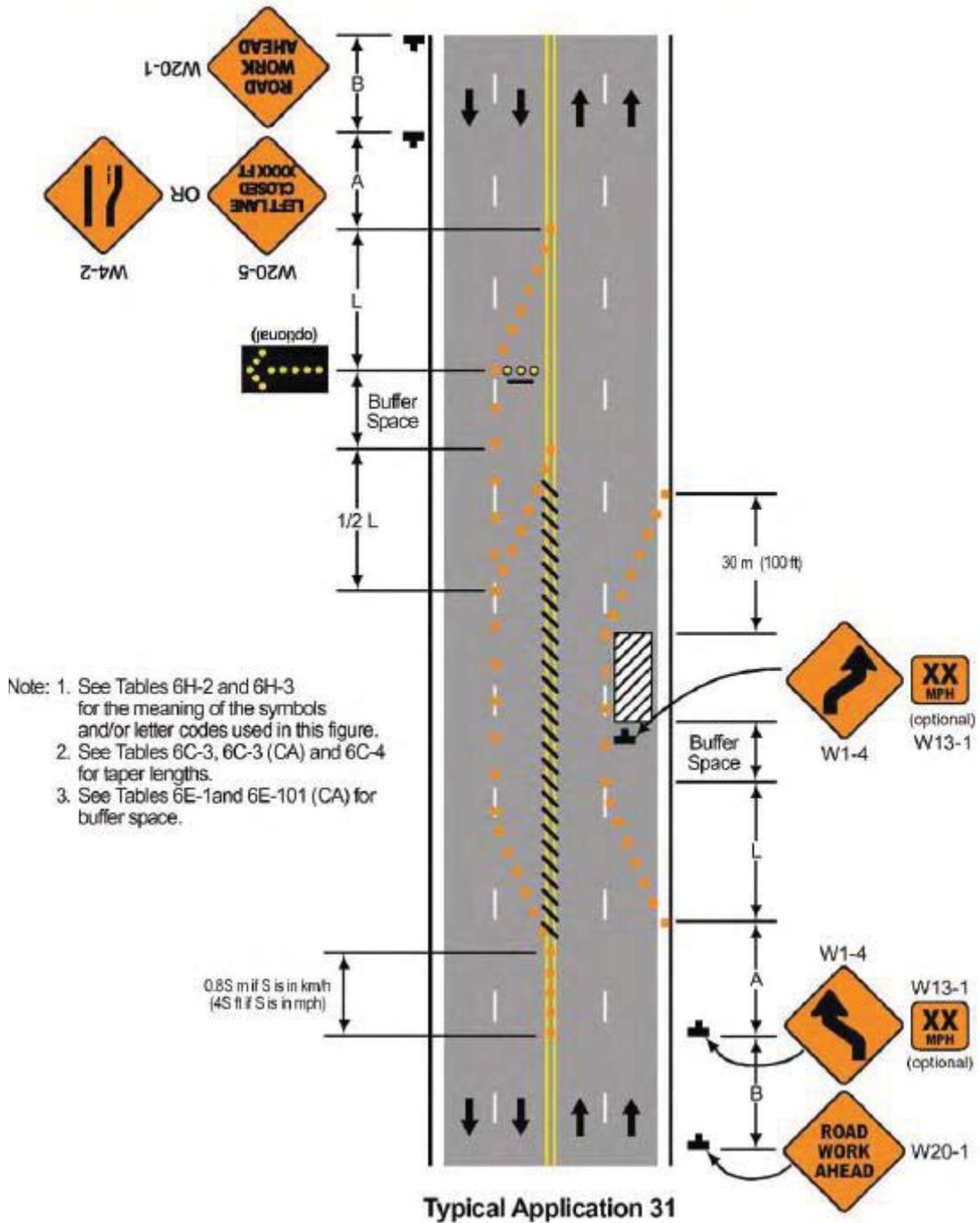


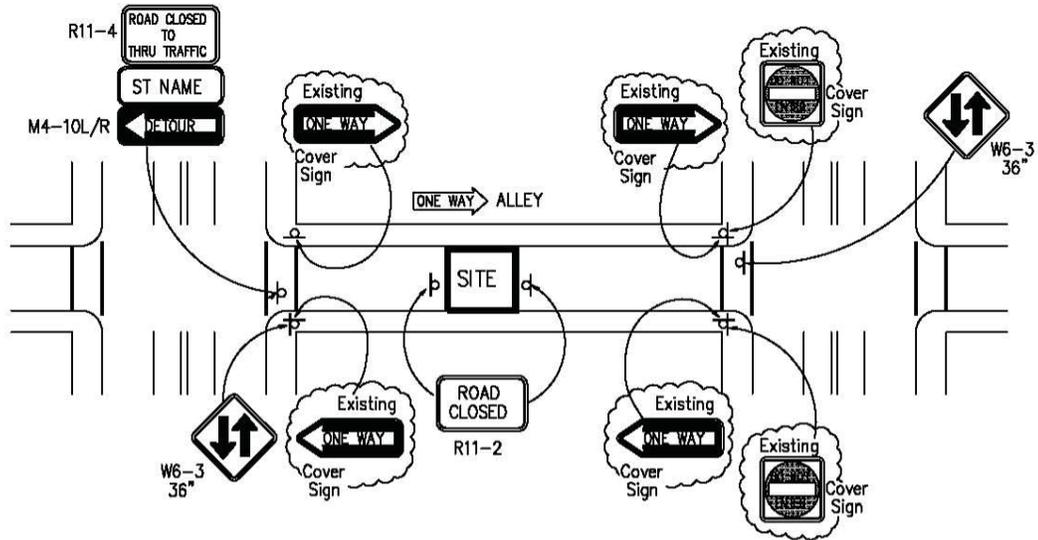
Figure 6H-31 (CA). Lane Closures on Street with Uneven Directional Volumes (TA-31)



# ALLEY CLOSURES

for One-Way Alleys

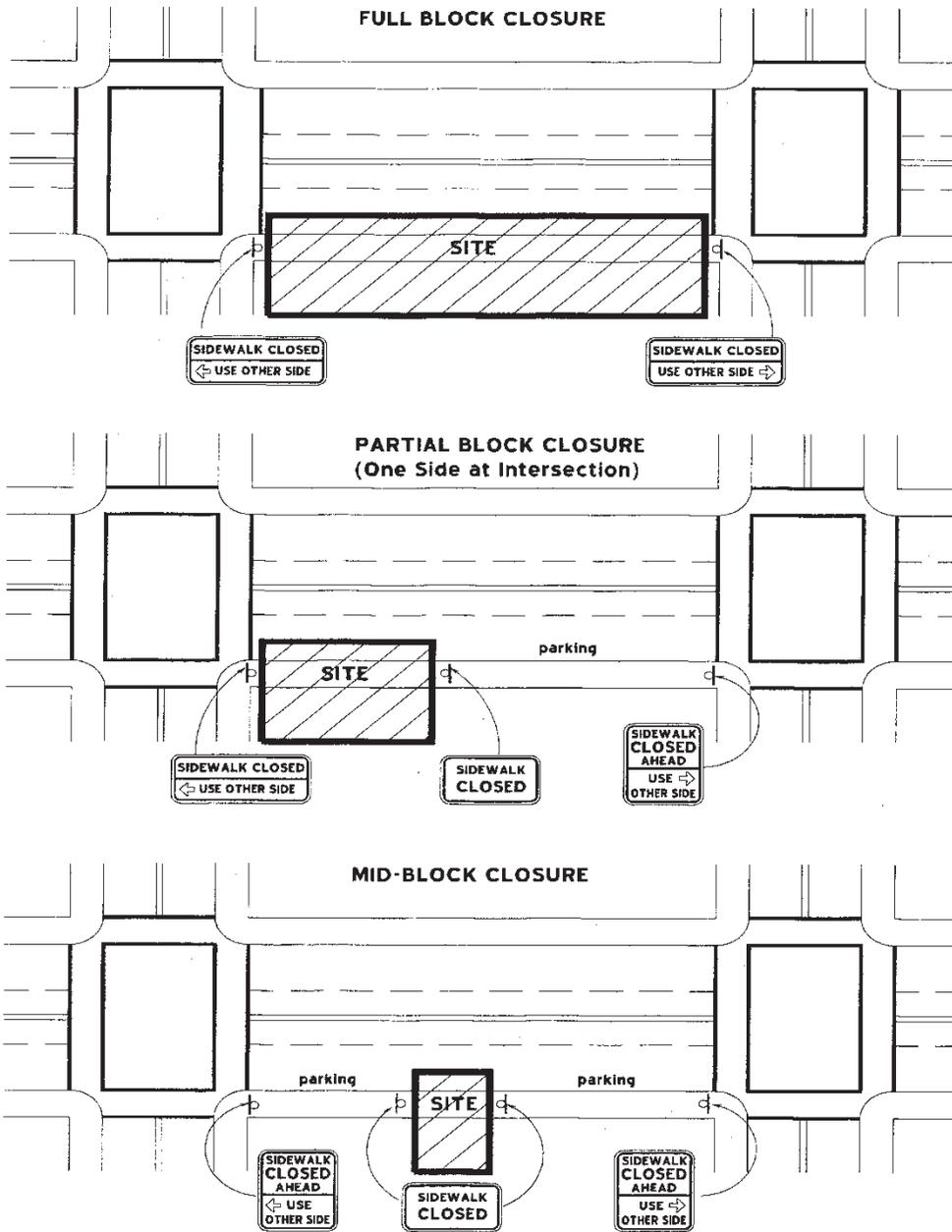
Special Traffic Permits are REQUIRED for all alley and street closures



This plan shows how to change a One-Way Alley into a Temporary Two-Way Alley  
Maintain Local Access At All Times  
Sidewalks should remain open to pedestrians  
A Flag-Person should be posted at each end of the block  
For Two-Way Alleys, W6-3 signs are not required.

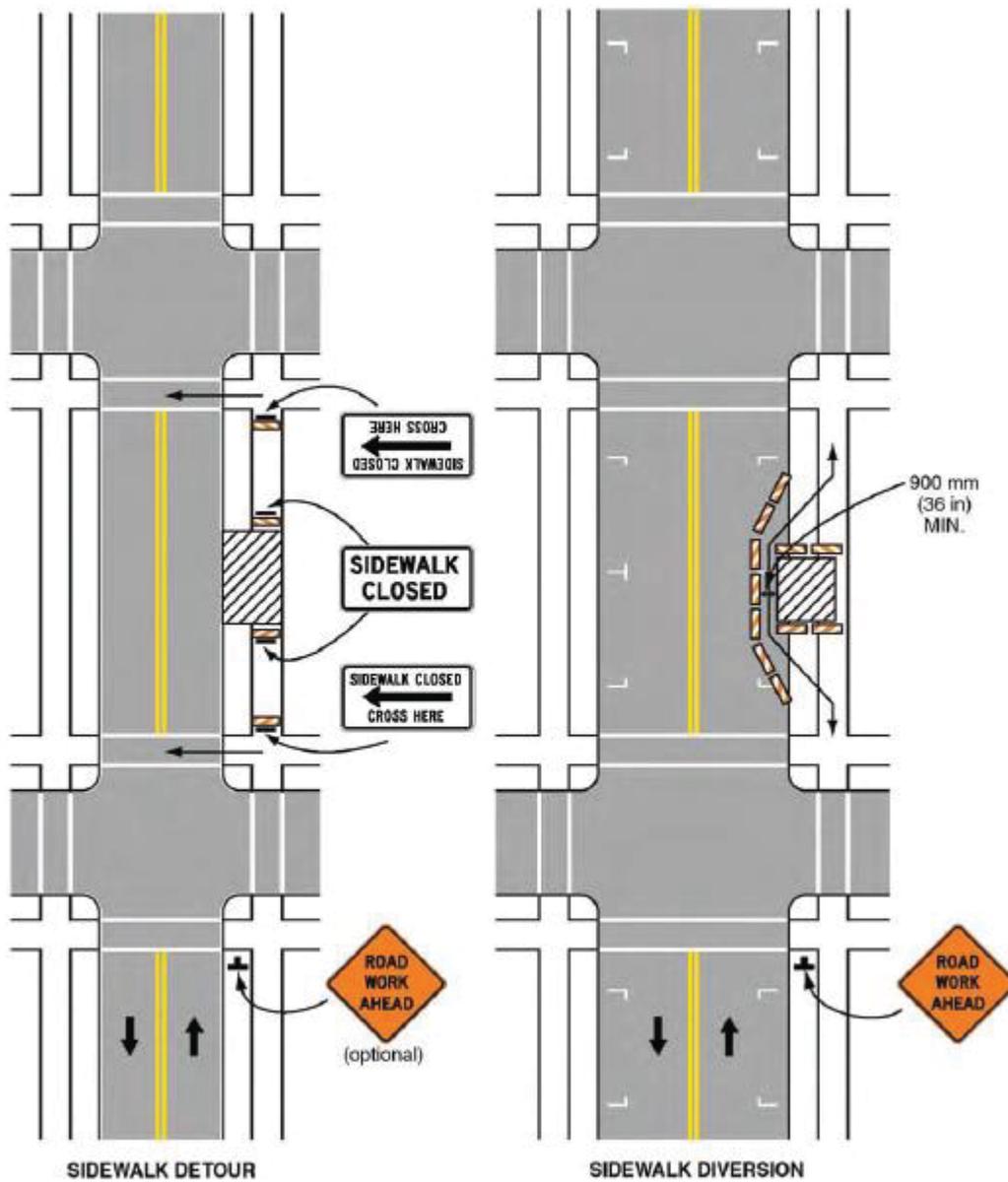
# SIDEWALK / WALKWAY CLOSURES

Special Traffic Permits are REQUIRED for all sidewalk and walkway closures



A "Block" is defined as between two major streets (alleys do not define the end of a block)  
 Do Not direct pedestrians to cross the street at alleyway intersections

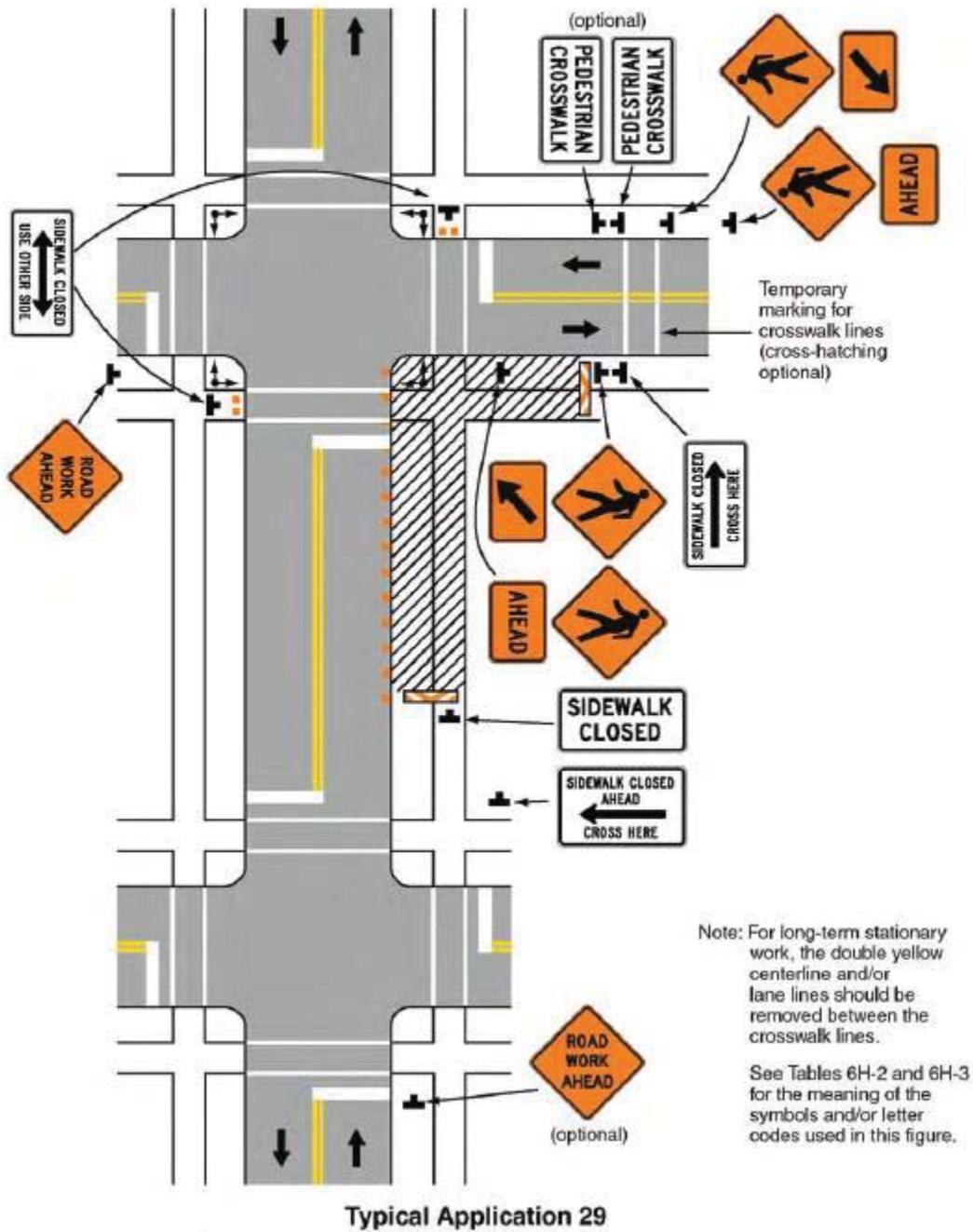
Figure 6H-28. Sidewalk Detour or Diversion (TA-28)



Typical Application 28

Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

Figure 6H-29. Crosswalk Closures and Pedestrian Detours (TA-29)



**APPENDIX G**

**CONTACT INFORMATION  
ADDRESSES AND PHONE NUMBERS**



## CONTACT INFORMATION

### SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY (SFMTA)

<http://www.sfmta.com/>

1 South Van Ness Avenue, 7<sup>th</sup> Floor  
San Francisco, CA 94103-5417

Special Traffic Permit  
[trafficpermits@sfmta.com](mailto:trafficpermits@sfmta.com)

Tow-desk (Register Zones) 415.554.9928

Parking Enforcement 415.553.1200

SFMTA Paint Shop 415.715.4074

SFMTA Paint Shop FAX 415.715.4079

SFMTA Sign Shop 415.554.9785

SFMTA Signal Shop 415.550.2736

SFMTA Meter Shop 415.550.2739

#### Transit (Muni)

[SFMTA Website:](http://www.sfmta.com/)

<http://www.sfmta.com/cms/mhome/home50.htm>

General Information 415.673.6864

#### SFMTA

Special Operations

[constructionrequest@sfmta.com](mailto:constructionrequest@sfmta.com)

Central Control 415.759.4361

Paint Shop 415.401.3164

Paint Shop FAX 415.401.3265

### SAN FRANCISCO PUBLIC WORKS (SFPW)

<http://www.sfdpw.org/>

Bureau of Street Use and Mapping  
1155 Market St, 3<sup>rd</sup> Floor  
San Francisco, CA 94103  
415.554.5810

DPW Construction Service Counter  
1660 Mission Street  
San Francisco, CA 94103  
415.558.6060

#### Permits:

Excavation 415.554.5810

Temporary Occupancy 415.554.5810

Street Space 415.558.6060

Night Noise 415.554.5810

Tree Trimming 415.641.2676

### CAL/OSHA – San Francisco

<http://www.dir.ca.gov/dosh/dosh1.html121>

[Spear Street, Suite 430](#)

San Francisco, 94105

SF Enforcement Unit 415.972.8670

SF Enforcement Unit FAX 415.972.8686

### CALTRANS – District 4

<http://dot.ca.gov/dist4>

111 Grand Avenue

P.O. Box 23660

Oakland, CA 94623-0660

Permit Unit 510.622.0724

Permit Unit FAX 510.286.4712

### PORT OF SAN FRANCISCO

[SF Port Website:](#)

<http://sfgov.org/sfport>

Pier 1, The Embarcadero

San Francisco, CA 94111

Engineering Section

415.274.0595

### SAN FRANCISCO RECREATION AND PARK DEPARTMENT (RPD)

[SF Recreation and Parks Website:](#)

<http://parks.sfgov.org>

McLaren Lodge & Annex

501 Stanyan Street

San Francisco, CA 94117

415.831.2700

### SAN FRANCISCO POLICE DEPARTMENT (SFPD)

Dispatch Center

415.553.0123

Police Coordinators

See Pages 51-52

### CITY SERVICES AND QUESTIONS

311

**APPENDIX H**

**FORMS**





## BUSINESS BLOCK MAP

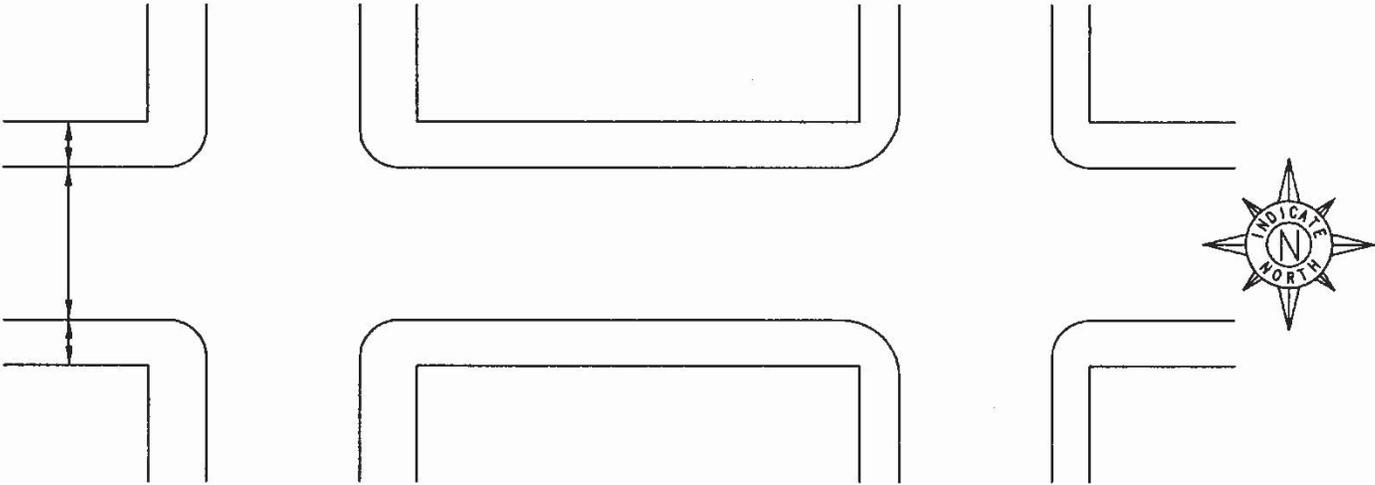
Submit **ONE** sheet per block  
Email Requests to [trafficpermits@sfmta.com](mailto:trafficpermits@sfmta.com)  
Please print. All items **MUST** be completed  
**RENEWALS:** edit and email your old permit

Use this form to

1. Determine if a block is a 'business block'
2. Request a SFMTA waiver of the moratorium restrictions (you **MUST** also apply for a Special Traffic Permit)

1. Contact Person: \_\_\_\_\_ Fax: \_\_\_\_\_

Name of Company: \_\_\_\_\_ Phone (site): \_\_\_\_\_



2. Moratorium Map: Use the diagram above. Sketches **MUST** include the following (incomplete submittals may be rejected):

- a. **Property Lines:** Show **all** property lines on **both sides** of the street for the entire block (between major cross streets (alleys do not define the end of any block for this purpose)
- b. **Street Names:** Indicate street names for the major streets (draw alleys in the middle of the block and label).
- c. **Name of Business:** Show the name of each business or entity for each property on the diagram.
- d. **Type of Business:** Indicate the type of business for each property (i.e. retail / wholesale / hotel / restaurant / bar / bank / service / gas station / residential / apartments / vacant / construction site / etc.).
- e. **Hours and Days of Operation (or hours OPEN)** for each business (property).
- f. **Dimensions:** Show the linear dimension for each property as measured along the street.

3. Describe type of work to be performed: \_\_\_\_\_

4. Work date (s): \_\_\_\_\_  Everyday  Mon-Fri  Other Work Hours: \_\_\_\_\_ to \_\_\_\_\_

5. Describe why this work **MUST** be performed during the Holiday Moratorium (attach a letter if necessary):  
\_\_\_\_\_

### The Holiday Moratorium

No work is allowed in the streets or sidewalks in the area outlined in the "Holiday Season Restrictions" map in the blue book (downtown) or on any "business block" in the City of San Francisco from the day after Thanksgiving through January 1, between the hours of 7am to 10pm.

A "business block" is defined as a block in which at least 50% of the linear frontage is devoted to business.

Establishments in this category are retail stores, bars, restaurants, banks, service type businesses, non-residence type hotels, wholesale businesses or others as determined by the Executive Director of Sustainable Streets Division. (includes buildings with no entry on subject street).

**For SFMTA Use Only:** This block is under Moratorium (as defined by the above data):  yes  no Engineer: \_\_\_\_\_

Comment(s): \_\_\_\_\_



Transportation Engineering  
Sustainable Streets  
City and County of San Francisco

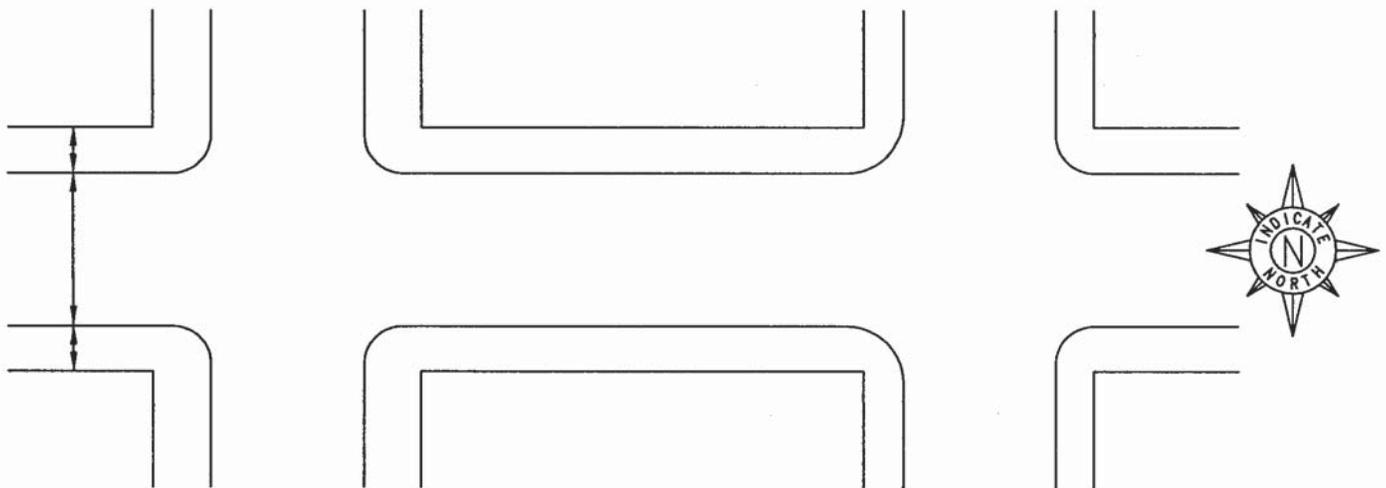
*Minimum 2 working days for processing*

Please email requests to [trafficpermits@sfmta.com](mailto:trafficpermits@sfmta.com)

Please print. All items **MUST** be completed

**RENEWALS:** edit and email us your old permit

1. Your SFPW Permit Number: \_\_\_\_\_  
 Type of permit:  Street Space  Excavation  Temporary Occupancy  City Contract  Other (indicate) \_\_\_\_\_
2. Contact Person: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Name of Company: \_\_\_\_\_ Phone (site): \_\_\_\_\_
3. Describe type of work to be performed: \_\_\_\_\_
4. Location of work and nearest cross streets: \_\_\_\_\_
5. Work date(s): \_\_\_\_\_  Everyday  Mon-Fri  Other Work hours: \_\_\_\_\_ to \_\_\_\_\_
6. Sketch of work area. **We recommend using SFMTA Striping Plans as a base.** Striping Plans for streets with painted lane lines are generally available from SFMTA at One South Van Ness Ave. 7<sup>th</sup> Floor. Retrieval of drawings may take several days. If SFMTA does not have a striping plan for your location, use the space below to draw a sketch. Sketches (hand drawn or on striping plans) **MUST** include the following (incomplete submittals may be rejected):
  - a. **Drawing** (8½ x11 or 11x17) of the full width of all streets adjacent to the site. Include the entire block in which your work is located for every street that is adjacent to your site. Add attachments as required.
  - b. **Street Names**, Direction of **One Way Streets** and **North Arrow**
  - c. **Roadway Striping** (the lane lines and any pavement arrows for turn lanes) on each street.
  - d. **Work Area** (area you plan to use); Number & Width of **Open Lanes**; and **Sidewalk / Walkways** (if open / closed).
  - e. **Dimensions** of street widths (curb to curb), sidewalk widths, lane widths, distances to the next major street in each direction, the proposed work area and existing street space features (temporary walkways or other semi permanent construction site features).



7. Indicate existing parking restrictions adjacent to work area, using the symbols below.

North side: \_\_\_\_\_  
 South side: \_\_\_\_\_  
 East side: \_\_\_\_\_  
 West side: \_\_\_\_\_

Symbols: NP = No Parking (hours)  
 NS = No Stopping (hours)  
 TA = Tow Away (hours)  
 TL = Time Limit (hours)

PP = Permit Parking  
 KC = Keep Clear  
 BS = Bus Stop

To register contractors' Construction Zones **"Tow-Away No Stopping"** call 701-2311

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**04-2A4904 EXISTING TRAFFIC MANAGEMENT SYSTEMS LIST (TV)**

MaintID	CO	ROU TE	PM	city	Equip Geo Loc	Status	SPID1	SPID2	Latitude	Longitude	EA
TV307	SF	280	5.18 SF		N280 STEVENSON ST	Abandoned			0	0	150024
TV309	SF	280	5.62 SF		S280 AT CESAR CHAVEZ	Operational	415-206-0710-0101	415-206-0711-0101	37.75025	-122.3924	150024
TV314	SF	280	6.06 SF		N280 AT INDIANA ST	Functional			37.7562	-122.3919	150024
TV325	SF	280	5.03 SF		N280 JSO CESAR CHAVEZ	Operational	415-695-6594-0101	415-695-6595-0101	37.74205	-122.3976	192034
TV326	SF	280	5.04 SF		S280 JSO CESAR CHAVEZ	Operational	415-695-6596-0101	415-695-6597-0101	37.7423	-122.3838	192034

**04-2A4904 EXISTING TRAFFIC MANAGEMENT SYSTEMS LIST (CMS)**

Maint ID	CO	RTE	PM	Fwy Dir	City	CMS Location	Status	Latitude	Longitude	Eq Comment	EA	Structure Type
CM005	SF	280	5.04	SB	SF	S280 NOF 280/101 SEP	Operational	37.74258	-122.39744	GPRS 172.25.24.61	192034	Butterfly