



**SAN DIEGO GAS & ELECTRIC COMPANY**  
**11-17-6TK-0465**  
**JUNE 26, 2017**  
**PAGE TWO**

The following District Standard Special Provisions are generalizations of the Department Standard Specifications and are included only as a Permittee convenience. Permittee's attention is directed to the current Department Standard Specifications for complete, unabridged, specification requirements.

Once begun, that portion of the work within the State Highway right of way shall be prosecuted to completion as rapidly as possible.

All personnel on foot within the State Highway right of way shall wear personal protective equipment, including safety glasses, hard hats and American National Standards Institute (ANSI) compliant Class II vests. In addition, all personnel working at night, on foot within the State Highway right of way shall wear ANSI Class III warning garments.

The Permittee is responsible for locating and protecting all utilities both underground and aerial. Any costs incurred for locating and protecting and/or relocating any utilities shall be borne by the Permittee.

Permittee is responsible for the actual cost of inspection, which may be more or less than the deposit. A bill or refund shall be sent upon satisfactory completion of the work. Payment of any bill is a condition of the permit.

The State of California, Department of Transportation, makes no assurance or expressed warranty that the plans are complete or that the planned construction fits field conditions. Should additional work or modifications of the work be required in order to meet established Department Standards or in order to fit field conditions, the work shall be performed by Permittee as directed by the State's Inspector at no cost to the State.

All work shall be coordinated with the State highway contractor's operations and under no circumstances shall the work granted herein interfere. All standards of construction shall be identical to similar work performed under adjacent highway contract.

Traffic control when permitted or directed by the State's Inspector, shall consist of closing traffic lanes and shoulders in accordance with attached Caltrans 2015 Standard Plans RSP T9, RSP T10, and the attached TRAFFIC CONTROL PLANS, Part 6 "Temporary Traffic Control" of the California Manual on Uniform Traffic Control Devices (California MUTCD) 2014 Edition, Section 12 "Temporary Traffic Control" of Caltrans 2015 Standard Specifications, and these Special Provisions.

Portable Changeable Message Signs should be secured by 9 cones, be located as shown on plans or as directed by State's Inspector.

Message boards should play only two flashing messages with two seconds time between flashes.

All signs must be maintained daily and panel shut-off and turned when not in use.

Each vehicle used to place, maintain, and remove components of a traffic control system on multilane highways shall be equipped with a Type II flashing arrow sign which shall be in operation when the vehicle is being used for placing, maintaining, or removing of components of a traffic control system, and shall be in place before a lane closure requiring its use is completed.

If any component in the traffic control system is displaced, or ceases to operate or function as specified, from any cause during the progress of the work, the permittee shall immediately repair said component to its original condition or replace said component and shall restore the component to its original location.

The provisions in this section will not relieve the Permittee from his responsibility to provide such additional devices or take such measures as may be necessary to comply with the provisions in Section 7-1.04, of the Standard Specifications.

Upon completion of the work, the attached card shall be completed and returned.

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STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION  
ENCROACHMENT PERMIT GENERAL PROVISIONS  
TR-0045 (REV. 05/2007)

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1. **AUTHORITY:** The Department's authority to issue encroachment permits is provided under, Div. 1, Chpt. 3, Art. 1, Sect. 660 to 734 of the Streets and Highways Code.
2. **REVOCACTION:** Encroachment permits are revocable on five days notice unless otherwise stated on the permit and except as provided by law for public corporations, franchise holders, and utilities. These General Provisions and the Encroachment Permit Utility Provisions are subject to modification or abrogation at any time. Permittees' joint use agreements, franchise rights, reserved rights or any other agreements for operating purposes in State highway right of way are exceptions to this revocation.
3. **DENIAL FOR NONPAYMENT OF FEES:** Failure to pay permit fees when due can result in rejection of future applications and denial of permits.
4. **ASSIGNMENT:** No party other than the permittee or permittee's authorized agent is allowed to work under this permit.
5. **ACCEPTANCE OF PROVISIONS:** Permittee understands and agrees to accept these General Provisions and all attachments to this permit, for any work to be performed under this permit.
6. **BEGINNING OF WORK:** When traffic is not impacted (see Number 35), the permittee shall notify the Department's representative, two (2) days before the intent to start permitted work. Permittee shall notify the Department's Representative if the work is to be interrupted for a period of five (5) days or more, unless otherwise agreed upon. All work shall be performed on weekdays during regular work hours, excluding holidays, unless otherwise specified in this permit.
7. **STANDARDS OF CONSTRUCTION:** All work performed within highway right of way shall conform to recognized construction standards and current Department Standard Specifications, Department Standard Plans High and Low Risk Facility Specifications, and Utility Special Provisions. Where reference is made to "Contractor and Engineer," these are amended to be read as "Permittee and Department representative."
8. **PLAN CHANGES:** Changes to plans, specifications, and permit provisions are not allowed without prior approval from the State representative.
9. **INSPECTION AND APPROVAL:** All work is subject to monitoring and inspection. Upon completion of work, permittee shall request a final inspection for acceptance and approval by the Department. The local agency permittee shall not give final construction approval to its contractor until final acceptance and approval by the Department is obtained.
10. **PERMIT AT WORKSITE:** Permittee shall keep the permit package or a copy thereof, at the work site and show it upon request to any Department representative or law enforcement officer. If the permit package is not kept and made available at the work site, the work shall be suspended.
11. **CONFLICTING ENCROACHMENTS:** Permittee shall yield start of work to ongoing, prior authorized, work adjacent to or within the limits of the project site. When existing encroachments conflict with new work, the permittee shall bear all cost for rearrangements, (e.g., relocation, alteration, removal, etc.).
12. **PERMITS FROM OTHER AGENCIES:** This permit is invalidated if the permittee has not obtained all permits necessary and required by law, from the Public Utilities Commission of the State of California (PUC), California Occupational Safety and Health Administration (Cal-OSHA), or any other public agency having jurisdiction.
13. **PEDESTRIAN AND BICYCLIST SAFETY:** A safe minimum passageway of 4' shall be maintained through the work area at existing pedestrian or bicycle facilities. At no time shall pedestrians be diverted onto a portion of the street used for vehicular traffic. At locations where safe alternate passageways cannot be provided, appropriate signs and barricades shall be installed at the limits of construction and in advance of the limits of construction at the nearest crosswalk or intersection to detour pedestrians to facilities across the street. Attention is directed to Section 7-1.09 Public Safety of the Department Standard Specifications.
14. **PUBLIC TRAFFIC CONTROL:** As required by law, the permittee shall provide traffic control protection warning signs, lights, safety devices, etc., and take all other measures necessary for traveling public's safety. While providing traffic control, the needs and control of all road users [motorists, bicyclists and pedestrians, including persons with disabilities in accordance with the Americans with Disabilities Act of 1990 (ADA)] shall be an essential part of the work activity.  
  
Day and night time lane closures shall comply with the California Manual on Uniform Traffic Control Devices (Part 6, Temporary Traffic Control), Standard Plans, and Standard Specifications for traffic control systems. These General Provisions are not intended to impose upon the permittee, by third parties, any duty or standard of care, greater than or different from, as required by law.
15. **MINIMUM INTERFERENCE WITH TRAFFIC:** Permittee shall plan and conduct work so as to create the least possible inconvenience to the traveling public; traffic shall not be unreasonably delayed. On conventional highways, permittee shall place properly attired flagger(s) to stop or warn the traveling public in compliance with the California Manual on Uniform Traffic Control Devices (Chapter 6E, Flagger Control).
16. **STORAGE OF EQUIPMENT AND MATERIALS:** The storage of equipment or materials is not allowed within State highway right-of-way, unless specified within the Special Provisions of this specific encroachment permit. If Encroachment Permit Special Provisions allow for the storage of equipment or materials within the State right of way, the equipment and material storage shall comply with Standard Specifications, Standard Plans, Special Provisions, and the Highway Design Manual. The clear recovery zone widths must be followed and are the minimum desirable for the type of facility indicated below: freeways and expressways - 30', conventional highways (no curbs) - 20', conventional highways (with curbs) - 1.5'. If a fixed object cannot be eliminated, moved outside the clear recovery zone, or modified to be made yielding, it should be shielded by a guardrail or a crash cushion.
17. **CARE OF DRAINAGE:** Permittee shall provide alternate drainage for any work interfering with an existing drainage facility in compliance with the Standard Specifications, Standard Plans and/or as directed by the Department's representative.
18. **RESTORATION AND REPAIRS IN RIGHT OF WAY:** Permittee is responsible for restoration and repair of State highway right of way resulting from permitted work (State Streets and Highways Code, Sections 670 et. seq.).

19. **RIGHT OF WAY CLEAN UP:** Upon completion of work, permittee shall remove and dispose of all scraps, brush, timber, materials, etc. off the right of way. The aesthetics of the highway shall be as it was before work started.
20. **COST OF WORK:** Unless stated in the permit, or a separate written agreement, the permittee shall bear all costs incurred for work within the State right of way and waives all claims for indemnification or contribution from the State.
21. **ACTUAL COST BILLING:** When specified in the permit, the Department will bill the permittee actual costs at the currently set hourly rate for encroachment permits.
22. **AS-BUILT PLANS:** When required, permittee shall submit one (1) set of folded as-built plans within thirty (30) days after completion and approval of work in compliance with requirements listed as follows:
1. Upon completion of the work provided herein, the permittee shall send one vellum or paper set of As-Built plans, to the State representative. Mylar or paper sepia plans are not acceptable.
  2. All changes in the work will be shown on the plans, as issued with the permit, including changes approved by Encroachment Permit Rider.
  3. The plans are to be stamped or otherwise noted AS-BUILT by the permittee's representative who was responsible for overseeing the work. Any original plan that was approved with a State stamp, or Caltrans representative signature, shall be used for producing the As-Built plans.
  4. If As-Built plans include signing or striping, the dates of signing or striping removal, relocation, or installation shall be shown on the plans when required as a condition of the permit. When the construction plans show signing and striping for staged construction on separate sheets, the sheet for each stage shall show the removal, relocation or installation dates of the appropriate staged striping and signing.
  5. As-Built plans shall contain the Permit Number, County, Route, and Post Mile on each sheet.
  6. Disclaimer statement of any kind that differ from the obligations and protections provided by Sections 6735 through 6735.6 of the California Business and Professions Code, shall not be included on the As-Built plans. Such statements constitute non-compliance with Encroachment Permit requirements, and may result in the Department of Transportation retaining Performance Bonds or deposits until proper plans are submitted. Failure to comply may also result in denial of future permits, or a provision requiring a public agency to supply additional bonding.
23. **PERMITS FOR RECORD PURPOSES ONLY:** When work in the right of way is within an area under a Joint Use Agreement (JUA) or a Consent to Common Use Agreement (CCUA), a fee exempt permit is issued to the permittee for the purpose of providing a notice and record of work. The Permittee's prior rights shall be preserved without the intention of creating new or different rights or obligations. "Notice and Record Purposes Only" shall be stamped across the face of the permit.
24. **BONDING:** The permittee shall file bond(s), in advance, in the amount set by the Department. Failure to maintain bond(s) in full force and effect will result in the Department stopping of all work and revoking permit(s). Bonds are not required of public corporations or privately owned utilities, unless permittee failed to comply with the provision and conditions under a prior permit. The surety company is responsible for any latent defects as provided in California Code of Civil Procedures, Section 337.15. Local agency permittee shall comply with requirements established as follows: In recognition that project construction work done on State property will not be directly funded and paid by State, for the purpose of protecting stop notice claimants and the interests of State relative to successful project completion, the local agency permittee agrees to require the construction contractor furnish both a payment and performance bond in the local agency's name with both bonds complying with the requirements set forth in Section 3-1.02 of State's current Standard Specifications before performing any project construction work. The local agency permittee shall defend, indemnify, and hold harmless the State, its officers and employees from all project construction related claims by contractors and all stop notice or mechanic's lien claimants. The local agency also agrees to remedy, in a timely manner and to State's satisfaction, any latent defects occurring as a result of the project construction work.
25. **FUTURE MOVING OF INSTALLATIONS:** Permittee understands and agrees to relocate a permitted installation upon notice by the Department. Unless under prior property right or agreement, the permittee shall comply with said notice at his sole expense.
26. **ARCHAEOLOGICAL/HISTORICAL:** If any archaeological or historical resources are revealed in the work vicinity, the permittee shall immediately stop work, notify the Department's representative, retain a qualified archaeologist who shall evaluate the site, and make recommendations to the Department representative regarding the continuance of work.
27. **PREVAILING WAGES:** Work performed by or under a permit may require permittee's contractors and subcontractors to pay appropriate prevailing wages as set by the Department of Industrial Relations. Inquiries or requests for interpretations relative to enforcement of prevailing wage requirements are directed to State of California Department of Industrial Relations, 525 Golden Gate Avenue, San Francisco, California 94102.
28. **RESPONSIBILITY FOR DAMAGE:** The State of California and all officers and employees thereof, including but not limited to the Director of Transportation and the Deputy Director, shall not be answerable or accountable in any manner for injury to or death of any person, including but not limited to the permittee, persons employed by the permittee, persons acting in behalf of the permittee, or for damage to property from any cause. The permittee shall be responsible for any liability imposed by law and for injuries to or death of any person, including but not limited to the permittee, persons employed by the permittee, persons acting in behalf of the permittee, or for damage to property arising out of work, or other activity permitted and done by the permittee under a permit, or arising out of the failure on the permittee's part to perform his obligations under any permit in respect to maintenance or any other obligations, or resulting from defects or obstructions, or from any cause whatsoever during the progress of the work, or other activity or at any subsequent time, work or other activity is being performed under the obligations provided by and contemplated by the permit.
- The permittee shall indemnify and save harmless the State of California, all officers, employees, and State's contractors, thereof, including but not limited to the Director of Transportation and the Deputy Director, from all claims, suits or actions of every name, kind and description brought for or on account of injuries to or death of any person, including but not limited to the permittee, persons employed by the permittee, persons acting in behalf of the permittee and the public, or damage to property resulting from the performance of work or other activity under the permit, or arising out of the failure on the permittee's part to perform his obligations under any permit in respect to maintenance or any other obligations, or resulting from defects or obstructions, or from any cause whatsoever during the progress of the work, or other activity or at any subsequent time, work or other activity is being performed under the obligations provided by and contemplated by the permit, except as otherwise provided by statute.

The duty of the permittee to indemnify and save harmless includes the duties to defend as set forth in Section 2778 of the Civil Code. The permittee waives any and all rights to any type of expressed or implied indemnity against the State, its officers, employees, and State contractors. It is the intent of the parties that the permittee will indemnify and hold harmless the State, its officers, employees, and State's contractors, from any and all claims, suits or actions as set forth above regardless of the existence or degree of fault or negligence, whether active or passive, primary or secondary, on the part of the State, the permittee, persons employed by the permittee, or acting on behalf of the permittee.

For the purpose of this section, "State's contractors" shall include contractors and their subcontractors under contract to the State of California performing work within the limits of this permit.

29. **NO PRECEDENT ESTABLISHED:** This permit is issued with the understanding that it does not establish a precedent.
30. **FEDERAL CIVIL RIGHTS REQUIREMENTS FOR PUBLIC ACCOMMODATION:**
- A. The permittee, for himself, his personal representative, successors in interest, and assigns as part of the consideration hereof, does hereby covenant and agree that:
1. No person on the grounds of race, color, or national origin shall be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination in the use of said facilities.
  2. That in connection with the construction of any improvements on said lands and the furnishings of services thereon, no discrimination shall be practiced in the selection and retention of first-tier subcontractors in the selection of second-tier subcontractors.
  3. That such discrimination shall not be practiced against the public in their access to and use of the facilities and services provided for public accommodations (such as eating, sleeping, rest, recreation), and operation on, over, or under the space of the right of way.
  4. That the permittee shall use the premises in compliance with all other requirements imposed pursuant to Title 15, Code of Federal Regulations, Commerce and Foreign Trade, Subtitle A. Office of the Secretary of Commerce, Part 8 (15 C.F.R. Part 8) and as said Regulations may be amended.
  5. That in the event of breach of any of the above nondiscrimination covenants, the State shall have the right to terminate the permit and to re-enter and repossess said land and the land and the facilities thereon, and hold the same as if said permit had never been made or issued.

31. **MAINTENANCE OF HIGHWAYS:** The permittee agrees, by acceptance of a permit, to properly maintain any encroachment. This assurance requires the permittee to provide inspection and repair any damage, at permittee's expense, to State facilities resulting from the encroachment.
32. **SPECIAL EVENTS:** In accordance with subdivision (a) of Streets and Highways Code Section 682.5, the Department of Transportation shall not be responsible for the conduct or operation of the permitted activity, and the applicant agrees to defend, indemnify, and hold harmless the State and the city or county against any and all claims arising out of any activity for which the permit is issued.

The permittee understands and agrees to comply with the obligations of Titles II and III of the Americans with Disabilities Act of 1990 in the conduct of the event, and further agrees to indemnify and save harmless the State of California, all officers and employees thereof, including but not limited to the Director of Transportation, from any claims or liability arising out of or by virtue of said Act.

33. **PRIVATE USE OF RIGHT OF WAY:** Highway right of way shall not be used for private purposes without compensation to the State.

The gifting of public property use and therefore public funds is prohibited under the California Constitution, Article 16.

34. **FIELD WORK REIMBURSEMENT:** Permittee shall reimburse State for field work performed on permittee's behalf to correct or remedy hazards or damaged facilities, or clear debris not attended to by the permittee.
35. **NOTIFICATION OF DEPARTMENT AND TMC:** The permittee shall notify the Department's representative and the Transportation Management Center (TMC) at least 7 days before initiating a lane closure or conducting an activity that may cause a traffic impact. A confirmation notification should occur 3 days before closure or other potential traffic impacts. In emergency situations when the corrective work or the emergency itself may affect traffic, TMC and the Department's representative shall be notified as soon as possible.
36. **SUSPENSION OF TRAFFIC CONTROL OPERATION:** The permittee, upon notification by the Department's representative, shall immediately suspend all lane closure operations and any operation that impedes the flow of traffic. All costs associated with this suspension shall be borne by the permittee.
37. **UNDERGROUND SERVICE ALERT (USA) NOTIFICATION:** Any excavation requires compliance with the provisions of Government Code Section 4216 et. seq., including, but not limited to notice to a regional notification center, such as Underground Service Alert (USA). The permittee shall provide notification at least 48 hours before performing any excavation work within the right of way.

DIST	COUNTY	ROUTE	TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

**Reindel Smith**  
REGISTERED CIVIL ENGINEER

JANUARY 20, 2017  
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
IN THE ACCOUNT OF COMPLETION OF PLANS  
DRAFTER OF THIS PLAN SHEET

PROFESSIONAL ENGINEER  
No. 52412  
CIVIL

TO ACCOMPANY PLANS DATED \_\_\_\_\_

TABLE 1

SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING			
	TANGENT		MERGING		SHIFTING SHOULDER		TAPER	
	2L	L	L/2	L/3	X	Y	Z	CONFLICT
20	160	80	40	27	20	40	10	10
25	250	125	63	42	25	50	12	12
30	360	180	90	60	30	60	15	15
35	490	245	123	82	35	70	17	17
40	640	320	160	107	40	80	20	20
45	1080	540	270	180	45	90	22	22
50	1200	600	300	200	50	100	25	25
55	1320	660	330	220	50	100	25	25
60	1440	720	360	240	50	100	25	25
65	1560	780	390	260	50	100	25	25
70	1680	840	420	280	50	100	25	25

\* - For other offsets, use the following merging taper length formula for L:  
For speed of 40 mph or less,  $L = WS^2/160$   
For speed of 45 mph or more,  $L = WS$

Where: L = Taper length in feet  
W = Width of offset in feet  
S = Posted speed limit, off-peak 85th-percentile speed or for to work starting, or the anticipated operating speed in mph

\*\* - Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA).

TABLE 2

SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
20	115	116	120	126
25	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	825	891
75	820	866	927	1003

\* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

\*\* - Longitudinal buffer space or flagger station spacing

\*\*\* - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

ROAD TYPE	DISTANCE BETWEEN SIGNS **		
	A	B	C
	ft	ft	ft
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

\* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommended distances.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

## TRAFFIC CONTROL SYSTEM TABLES FOR LANE AND RAMP CLOSURES

NO SCALE

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PROJECT TOTAL SHEET TOTAL  
MILES PROJECT SHEETS  
COUNT ROUTE

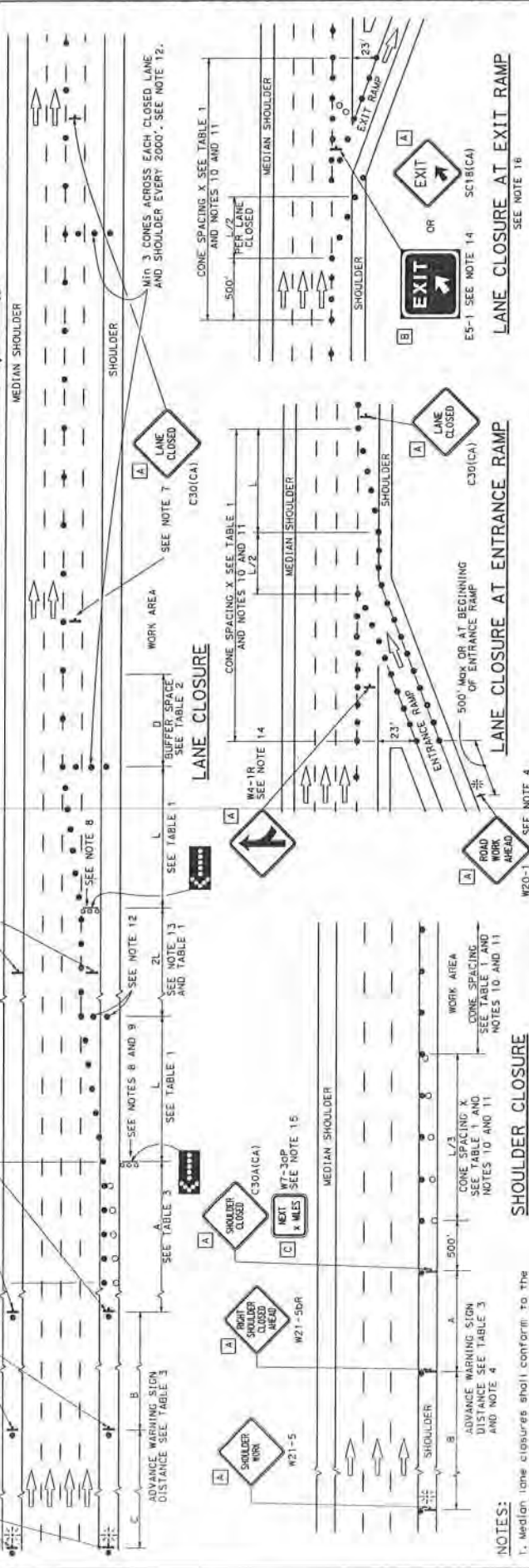
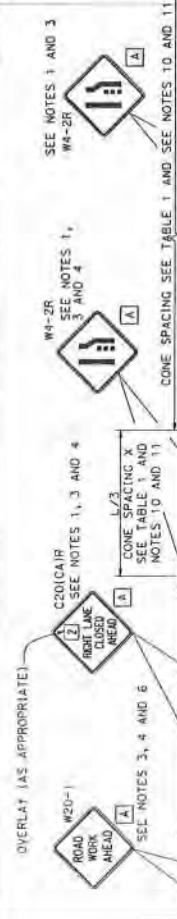
*Reinhold Smith*  
REGISTERED CIVIL ENGINEER  
No. 64501  
EXPIRES 12/31/17

JANUARY 20, 2017  
PLANS APPROVAL DATE

FOR THE STATE OF CALIFORNIA OR ITS OFFICERS  
FOR THE ACCOUNT OF CONTRACTORS OR OTHERS  
WORKING ON THIS PLAN SHEET

TO ACCOMPANY PLANS DATED \_\_\_\_\_

See Revised Standard Plan RSP T9 for tables.  
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.  
All temporary warning signs shall have black legend on fluorescent orange background.  
California codes are designated by (CA), otherwise, Federal (MUTCD) codes are shown.



**LANE CLOSURE AT ENTRANCE RAMP**  
SEE NOTE 16

**LANE CLOSURE AT EXIT RAMP**  
SEE NOTE 16

- LEGEND**
- TRAFFIC CONE
  - TRAFFIC CONE (OPTIONAL TAPER)
  - ⬇ TEMPORARY TRAFFIC CONTROL SIGN
  - ⬆ FLASHING ARROW SIGN (FAS)
  - ⬆ FAS SUPPORT OR TRAILER
  - ⬆ PORTABLE FLASHING BEACON
12. A minimum of 3 cones shall be placed and transversely across each closed lane and a traffic cone ends and every 500' as shown on the "Lane Closure" detail. The cone spacing alignment of the cones or barricades on the shoulder may be shifted from the transverse alignment to provide access to the work.
13. The 2L tangent span along lane lines shall be used between the 1L tapers required for each closed traffic lane.
14. The E5-1 or SC1A(CA) and W4-1 signs shall be used as shown.
15. A W7-3op "NEXT \_\_\_\_\_ MILES" plaque must be used for work areas that are posted for a distance that can be perceived by road users.
16. For the warning sign requirements at the Exit Ramp, when work is proposed on the local street, see CA MUTCD Figure 6H-22 to 6H-27.

**NOTES:**

1. Median lane closures shall conform to the details as shown except that C20(CAL) and W4-2L signs shall be used.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
3. Duplicate sign installations are not required:
  - a) On opposite shoulder, if at least one-half of the overtable lanes remain open to traffic.
  - b) In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
4. Each advance warning sign on each side of the roadway shall be equipped with at least one flashing arrow sign. Each sign shall be posted for the closure. Each sign shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated.
5. A G20-2 "END ROAD WORK" sign, with minimum size of 18" x 24" as appropriate, shall be placed at the end of the work area, unless the end of work area is obvious or ends within a larger project's limits.

**TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS**

NO. SCALE  
RSP T10 DATED JANUARY 20, 2017 SUPERSEDES STANDARD PLAN T10  
DATED OCTOBER 30, 2015 - PAGE 250 OF THE STANDARD PLANS BOOK DATED 2015.

**REVISED STANDARD PLAN RSP T10**

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION





Google

Eye alt 1022.4 ft

Approx PCMS location

© 2017 Google  
© 2017 INEGS

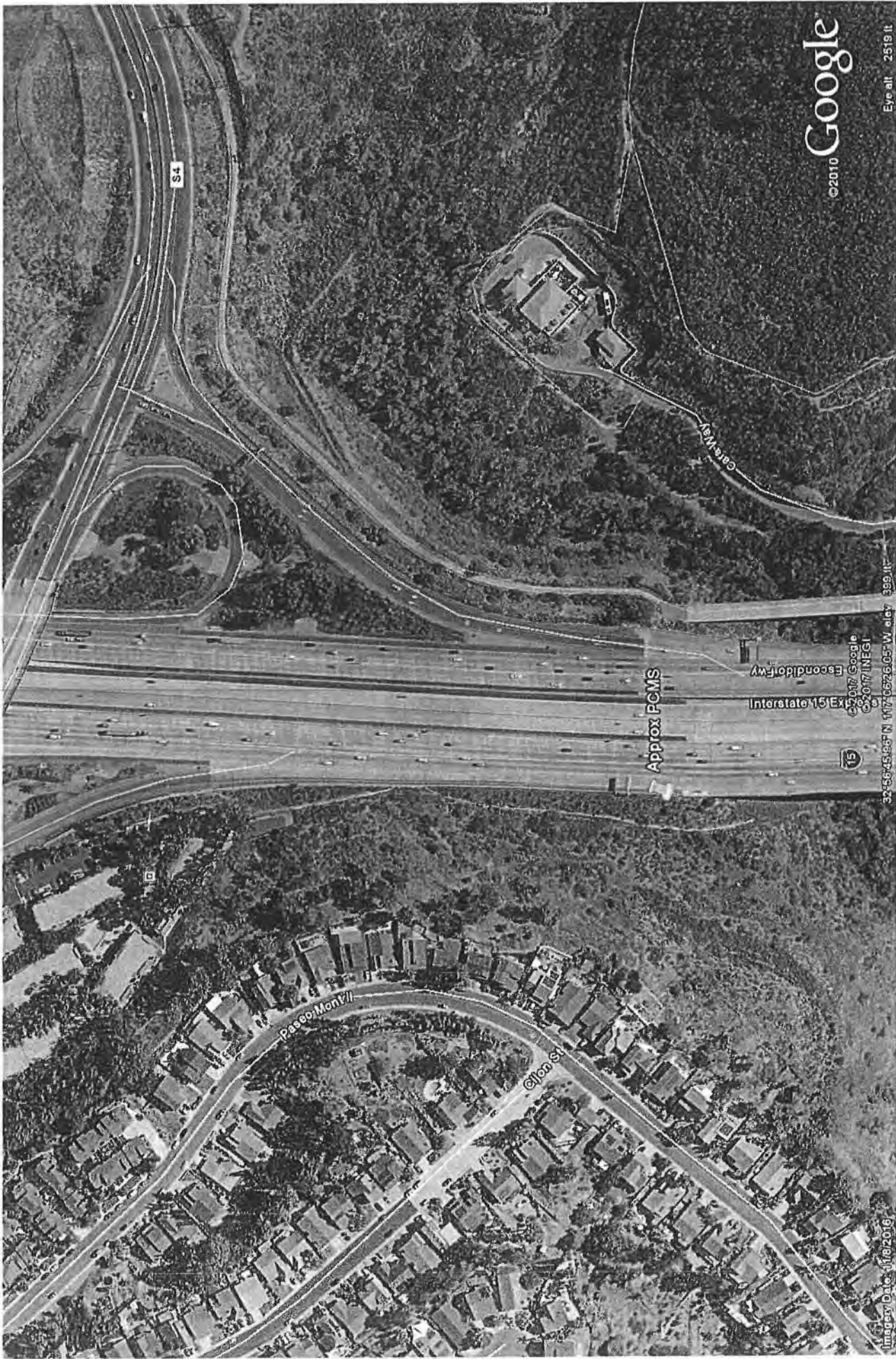
32.531365° N 117.064337° W Elev. 503 ft

APPROVED ENCROACHMENT PERMIT

Permit No. 1176TK0465

Date 6/26/17

Imagery Date: 11/8/2016



APPROVED ENCROACHMENT PERMIT PLAN

Permit No. 111767K0465

Date: 6/26/17

Eye alt - 2519 ft.

©2010 Google

Approx PCMS

Interstate 15 EX  
Econditor Fwy

©2017 Google  
©2017 INEGI

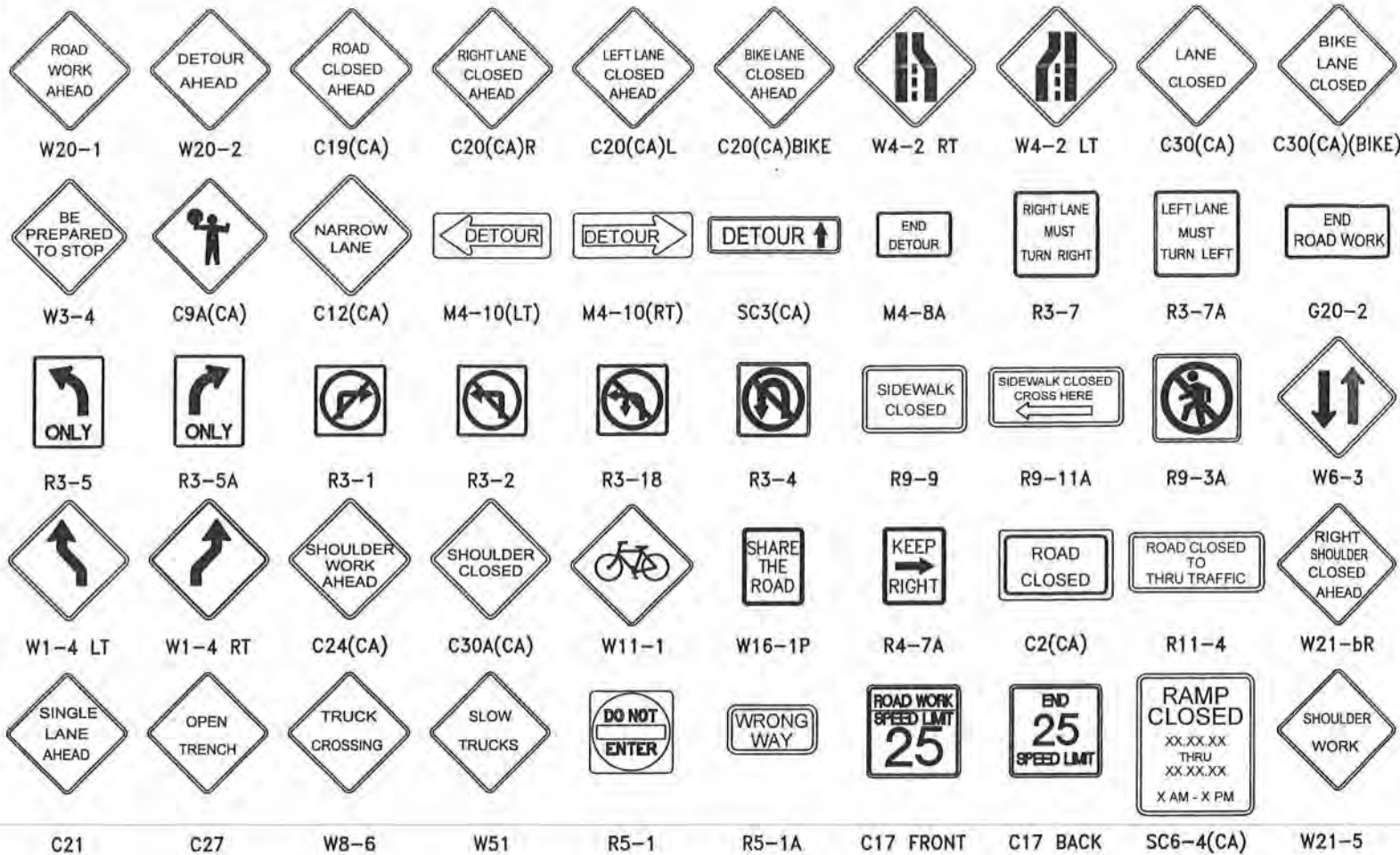
32°56'45.667" N 117°02'25.057" W elev: 399.11'

Paseo Montev

Olson St

Imagery Date: 11/8/2016

**CONSTRUCTION SIGNS:**



**TABLE 1**

**TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING**

SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING		
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	X	Y	Z
					TAPER	TANGENT	CONFLICT
mph	ft	ft	ft	ft	ft	ft	
20	160	80	40	27	20	40	10
25	250	125	63	42	25	50	12
30	360	180	90	60	30	60	15
35	490	245	123	82	35	70	17
40	640	320	160	107	40	80	20
45	1080	540	270	180	45	90	22
50	1200	600	300	200	50	100	25
55	1320	660	330	220	50	100	25
60	1440	720	360	240	50	100	25
65	1560	780	390	260	50	100	25
70	1680	840	420	280	50	100	25
75	1800	900	450	300	50	100	25

**TABLE 2**

**LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING**

SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
		ft	ft	ft
mph	ft	ft	ft	ft
20	115	116	120	126
25	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	825	891
75	820	866	927	1003

\* For other offsets, use the following merging taper length formula for L:  
 For speed of 40 mph or less, L = WS /60  
 For speed of 45 mph or more, L = WS  
 Where: L = Taper length in feet  
 W = Width of offset in feet  
 S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

\* Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph.  
 \*\* Longitudinal buffer space or flagger station spacing.  
 \*\*\* Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

**TABLE 3**

**ADVANCE WARNING SIGN SPACING**

ROAD TYPE	DISTANCE BETWEEN SIGNS *		
	A	B	C
	ft	ft	ft
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

\*\* Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA).  
 \* The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgement. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommended distances.

**APPROVED ENCROACHMENT PERMIT PLAN**

CMS HOURS WILL BE ACTIVE FROM \_\_\_\_\_ TO \_\_\_\_\_

**CO'S TRAFFIC CONTROL GENERAL NOTES:**

Permit No.: 111767K046  
 Date: 6-26-17

- CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT FIVE (5) DAYS TO STARTING WORK, IF WORK WILL AFFECT AN EXISTING TRAFFIC SIGNAL.
- STANDARD** - THIS TRAFFIC CONTROL PLAN SHALL CONFORM TO THE MOST RECENT ADOPTED EDITION OF EACH OF THE FOLLOWING MANUALS: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND CALIFORNIA SUPPLEMENT; STANDARD SPECIFICATIONS FOR PUBLIC WORK, CONSTRUCTION, AND CITY AMENDMENTS; CALTRANS STANDARD PLANS AND STANDARD SPECIFICATIONS.
- NOTIFICATIONS** - THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION, CONSTRUCTION, OR TRAFFIC CONTROL AFFECTING THE AGENCIES LISTED:  
 A. FIRE DEPARTMENT DISPATCH (STREET OR ALLEY CLOSURE)  
 B. POLICE DEPARTMENT DISPATCH (STREET OR ALLEY CLOSURE)  
 C. WASTE MANAGEMENT (REFUSE COLLECTION)  
 D. COMMUNICATIONS AND ELECTRICAL (TRAFFIC SIGNALS)  
 E. CITY TRANSIT (BUS STOPS)  
 F. UNDERGROUND SERVICE ALERT (ANY EXCAVATION)  
 THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS AND TENANTS A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO CLOSURE OF THE STREETS.
- POSTING PARKING RESTRICTIONS** - THE CONTRACTOR SHALL POST TOW-AWAY PARKING SIGNS TWENTY-FOUR (24) HOURS IN ADVANCE OF PARKING REMOVAL. SIGNS SHALL INDICATE SPECIFIC DAYS AND DATES AND TIMES OF RESTRICTIONS. PARKING METERS SHALL BE BAGGED WHERE APPLICABLE.

- EXCAVATIONS - EXCEPT WHERE OTHERWISE SHOWN ON THE PLANS, ALL TRENCHES SHALL BE BACKFILLED OR TRENCH PLATED AT THE END OF EACH WORK DAY. AN ASPHALT RAMP SHALL BE PLACED AROUND EACH TRENCH PLATE TO PREVENT THE PLATE FROM BEING DISLODGED. CONTRACTOR SHALL MONITOR TRENCH PLATES DURING NON-WORKING HOURS TO ENSURE THAT THEY DO NOT BECOME DISLODGED. UPON COMPLETION OF EXCAVATION BACKFILL, THE CONTRACTORS SHALL PROVIDE A SATISFACTORY SURFACE FOR TRAFFIC. WHEN CONSTRUCTION OPERATIONS ARE NOT ACTIVELY IN PROGRESS, THE CONTRACTOR SHALL MAINTAIN ALL TRAVEL LANES, BIKE LANES, AND PEDESTRIAN WALKWAYS IN THE RIGHT-OF-WAY EXCEPT WHEN OTHERWISE SHOWN ON THE PLAN.
- RESTORATION OF ROADWAY** - THE CONTRACTOR SHALL REPAIR OR REPLACE ALL EXISTING IMPROVEMENTS WITHIN THE RIGHT-OF-WAY WHICH ARE NOT DESIGNATED FOR PERMANENT REMOVAL (TRAFFIC SIGNS, STRIPING, PAVEMENT MARKERS, PAVEMENT MARKINGS, LEGENDS, CURB MARKINGS, LOOP DETECTORS, TRAFFIC SIGNAL EQUIPMENT, ETC.) WHICH ARE REMOVED OR DAMAGED AS A RESULT OF OPERATION, REPAIRS, AND REPLACEMENTS; AND SHALL BE AT LEAST EQUAL TO EXISTING IMPROVEMENTS.
- CHANGES IN WORK** - THE ENGINEER RESERVES THE RIGHT TO OBSERVE THESE TRAFFIC CONTROL PLANS IN OPERATION AND TO MAKE ANY CHANGES AS FIELD CONDITIONS WARRANT, AND CHANGES SHALL SUPERCEDE THESE PLANS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING WORK ON A CITY STREET TO SUPPLY, INSTALL, AND MAINTAIN THE TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED, TO ENSURE THE SAFE MOVEMENT OF TRAFFIC, PEDESTRIANS, AND BICYCLISTS THROUGH OR AROUND THE WORK AREA, AND PROVIDE MAXIMUM PROTECTION AND SAFETY TO CONSTRUCTION WORKERS.
- ALL ADVANCE WARNING SIGNS INSTALLATION SHALL BE EQUIPPED WITH FLAGS FOR DAYTIME CLOSURES.
- THE CONTRACTORS SHALL BE RESPONSIBLE FOR MAINTAINING ALL SAFETY DEVICES SUCH AS BARRICADES, DELINEATORS, AND SIGNS. SAFETY DEVICES MUST BE IN GOOD CONDITION AND PROPERLY PLACED AS REQUIRED BY THE TRAFFIC CONTROL PLAN.



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**SXPQ 230KV EAST SIDE POMERADO**

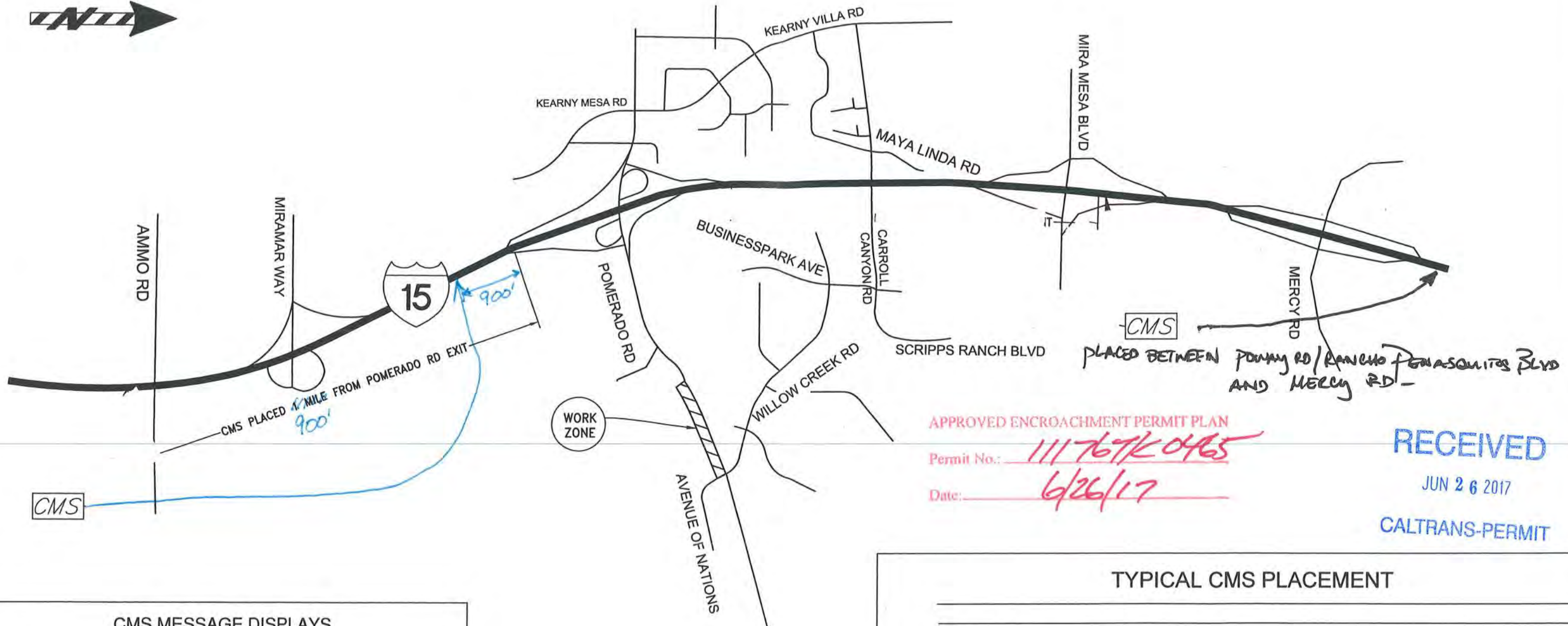
RECEIVED

JUN 26 2017

CALTRANS-PERMIT

TRAFFIC CONTROL PLANS

NOT TO SCALE



APPROVED ENCROACHMENT PERMIT PLAN

Permit No.: 111767K0465

Date: 6/26/17

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JUN 26 2017

CALTRANS-PERMIT

CMS MESSAGE DISPLAYS

CONSTRUCTION  
ON EAST  
POMERADO RD

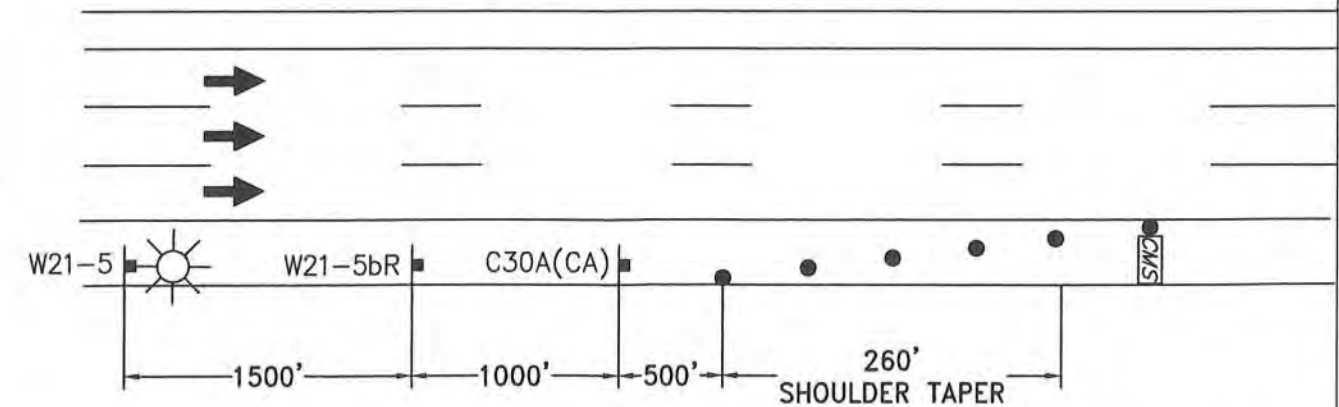
PANEL 1

EXPECT  
DELAYS

PANEL 2

NOTE:  
WHEN CMS BOARDS ARE NOT  
ACTIVE, THEY WILL BE TURNED  
TO THE SIDE AND TURNED OFF

TYPICAL CMS PLACEMENT



**CO's**  
**TRAFFIC CONTROL, INC.**  
LIC# 818076

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POSTED SPEED LIMIT (MPH)	SEE PLAN	MIGUEL URESTI
SIGN SPACING (FEET)	SEE PLAN	DRAWN BY:
TAPER LENGTH (FEET)	SEE PLAN	PROJECT NUMBER:
CONE SPACING (FEET)	SEE PLAN	DATE: June 23, 2017

SXPQ 230KV EAST SIDE POMERADO	
PROJECT INFORMATION	
ARB	619.295.2754
COMPANY	PHONE
ROD NELSON	
PROJECT CONTACT	

TRAFFIC CONTROL PLANS	
CALTRANS	
SHEET 1 OF 1	