

Permit No. <b>1016-NUK-0179</b>	
Dist/Co/Rte/PM <b>10-MER-165-8.79/9.94</b>	
Date <b>April 29, 2016</b>	
Fee Paid <b>\$ Exempt</b>	Deposit <b>\$</b>
Performance Bond Amount (1) <b>\$</b>	Payment Bond Amount (2) <b>\$</b>
Bond Company	
Bond Number (1)	Bond Number (2)

In compliance with (Check one):

- Your application of **March 25, 2016**
- Utility Notice No. \_\_\_\_\_ of \_\_\_\_\_
- Agreement No. \_\_\_\_\_ of \_\_\_\_\_
- RW Contract No. \_\_\_\_\_ of \_\_\_\_\_

TO: 
**City of Los Banos**  
**411 Madison Avenue**  
**Los Banos, CA 93635**  
  
**ATTN: Mario B. Gouveia**  
**TEL : (209) 854-3300**
, PERMITTEE

And subject to the following, PERMISSION IS HEREBY GRANTED to:

Remove and replace an existing sewer main by open cut method along the southbound traveled lane and shoulder of State Route (SR) 165 right of way beginning at the intersection of SR165/152 and extending north approximately 250 feet south of Overland Avenue in the City of Los Banos. Work includes installing manholes, installing traffic control signs, traffic control and detour signs, performing flagging and traffic control, and replacing damaged signal loops at the intersection of Pacheco Blvd and East B Street/SR 165 intersection. **All work shall conform to the approved plans and as per Caltrans Standard Specifications 2010.** Traffic control shall be as directed by the State representative. All work shall be done in accordance with the attached Lane Closure

**THIS PERMIT IS NOT A PROPERTY RIGHT AND DOES NOT TRANSFER WITH THE PROPERTY TO A NEW OWNER**

The following attachments are also included as part of this permit (Check applicable):

- Yes  No General Provisions
- Yes  No Utility Maintenance Provisions
- Yes  No Special Provisions **T, TR-400, T-185**
- Yes  No A Cal-OSHA permit, if required: Permit No. \_\_\_\_\_
- Yes  No As-Built Plans Submittal Route Slip for Locally Advertised Projects
- Yes  No Storm Water Pollution Protection Plan
- Yes  No The information in the environmental documentation has been reviewed and considered prior to approval of this permit.

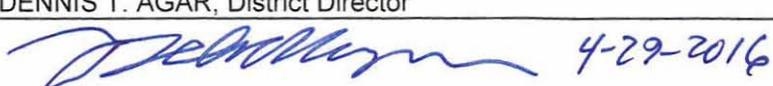
In addition to fee, the permittee will be billed actual costs for:

- Yes  No Review
- Yes  No Inspection
- Yes  No Field Work

(If any Caltrans effort expended)

This permit is void unless the work is complete before **December 31, 2016.**

This permit is to be strictly construed and no other work other than specifically mentioned is hereby authorized. No project work shall be commenced until all other necessary permits and environmental clearances have been obtained.

Original: Permittee 2 - Bob Gill 1 - Maintenance 1 - PIO 1 - File  Eddie	APPROVED:  DENNIS T. AGAR, District Director   NELSON MAGSAYO, District Permit Engineer
--	--

**ADA NOTICE:** For individuals with sensory disabilities, this document is available in alternate formats. For information, call (916) 445-1233, TTY 711, or write to Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

PERMIT NO.: 1016-NUK-0179  
PERMITTEE: City of Los Banos  
DATE: April 29, 2016

Chart and State Standards and Specifications. Trenching and pavement cut restoration shall be done as per attached Typical T-section.

In accordance with General Provision No. 6, **SEVEN (7) WORKING DAYS PRIOR** to the start of this work, Permittee shall notify the State Representative **BOB GILL, (209) 656-6503 or by email: [Bob.Gill@dot.ca.gov](mailto:Bob.Gill@dot.ca.gov)**, P. O. Box 3558, Merced, CA 95344 or our District Permits main line phone number (209) 948-7891. **All work requiring traffic control must apply for a closure number seven days prior to start of work. No closures on HOLIDAYS or WEEKENDS.** All work under this permit must meet with the approval of the State Representative.

Failure on the Permittee's part to comply with any provision will be cause for revocation of this permit.

**IMMEDIATELY FOLLOWING COMPLETION FO WORK PERMITTED HEREIN, PERMITTEE SHALL FILL OUT AND MAIL NOTICE OF COMPLETEION PROVIDED BY GRANTOR.**

Permittee's attention is directed to Section 6, "CONTROL OF MATERIALS", of the State Standard Specifications Reference to Engineer in the State Standard Specifications shall include State Representative.

"Your attention is directed to Standard Specification, Section 5-1.36 Property and Facility Preservation, and Business and Professions Code, Section 8771. Permittee shall physically inspect the work site and locate survey monuments before work commencement. Monuments that might be disturbed shall be referenced or reset in accordance with Business and Professions Code."

"If feasible, monuments should not be set within the traveled way. All monuments that must be set or perpetuated in paved surfaces, shall be constructed in accordance with Caltrans Standard Specification Section 81 'monuments' and Standard Plan A74, Type D, or equal with prior approval of the District Surveys Engineer."

"Copies of Corner Records filed or Record of Surveys recorded in compliance with the Business and Professions Code shall be forwarded to the District Surveys Engineer."

**Notwithstanding General Provision #4, your Contractor is required to provide the following:**

1. To apply for and obtain an encroachment permit prior to start of work inside the State right of way.
2. For all projects of 1 acre or more the Permittee or there consultant or contractor shall develop, implement, and maintain a **Storm Water Pollution Prevention Plan (SWPPP)** and for projects less than 1 acre a **Water Pollution Control Program (WPCP) document for review and approval prior to start of work inside the State right of way..** Either the Plan or Program shall also conform to the requirements of the Caltrans Storm Water Quality Handbook, Construction Contractor's Guide and Specifications and Caltrans Specification Section 7-1-.01G and subsequent revisions.
3. Provide \$4,920.00 deposit fee for administrative and inspection fees payable to Caltrans.
4. Provide performance and payment bond amounting to \$1,000,000.00 each **designating the State as sole obligee** shall be posted prior to the start of work.

PERMIT NO.: 1016-NUK-0179  
PERMITTEE: City of Los Banos  
DATE: April 29, 2016

**CONSTRUCTION INSPECTION OVERSIGHT:** Permittee must provide a Resident Engineer or an independent construction management company to provide the daily construction contract administration and inspection services with the State representative providing construction inspection oversight.

Permittee/contractor shall work with the State representative to request the necessary lane closure needed. Request shall be the week prior to the actual work. The State representative shall submit closure through the Lane Closure System (LCS) for Traffic Management Center (TMC) approval by Wednesday afternoon of the week prior.

All Lane closures shall be called in by either the contractor to the TMC when the closure begins (10-97), ends (10-98), or is cancelled (10-22). The TMC can be reached (24-7) at (209) 948-7556 or 7551.

This permit is not valid until Permittee has obtained permission from adjacent property owners, Irrigation Districts, Cities, Counties or other interested parties to perform the proposed work.

No lane closures, shoulder closures or other traffic restrictions shall be allowed on the following day(s): January 1 – New Years Day, Martin Luther King Jr. Day, Lincoln's Birthday, Washington's Birthday, Cesar Chavez Day, Memorial Day, July 4 – Independence Day, Labor Day, Columbus Day, Veterans Day, Thanksgiving Day, Friday Day after Thanksgiving, December 25 - Christmas Day. When a holiday falls on a Sunday, it is observed on the following Monday.

Use proper traffic control devices throughout the duration of the project as per Caltrans Standard Specifications.

**All night-time work requires COZEEP and will be coordinated by State representative. The State representative shall advise permittee that COZEEP must be present since night-time work is only allowed per lane chart.**

Except when necessary, as determined by the State Representative, no installation, construction equipment or personal vehicles shall operate or park within the traveled way.

All work shall be performed in accordance with the current Department of Transportation Standard Specifications and the Department of Transportation Encroachment Permit Utility Provision dated August 2004.

All work shall be conducted in such a manner that the excavation, excavated earth, materials and equipment will not cause any inconvenience to the highway traffic or to traffic entering the highway from any public or private approach.

No earth or construction materials are to be dragged or scraped across the highway pavement. No excavated earth shall be placed or allowed to remain at a location where it can be tracked onto the highway traveled way or any public or private approach by the Permittee's construction equipment, or by traffic entering or leaving the highway traveled way. Any excavated earth or mud so tracked onto the highway pavement or public or private approach shall be immediately removed by the Permittee.

In accordance with Section 6500 of the Labor Code, a Cal-OSHA permit is required prior to the start of work.

PERMIT NO.: 1016-NUK-0179  
PERMITTEE: City of Los Banos  
DATE: April 29, 2016

Pavement cutting shall be done by a saw-cutting method and said method shall be approved by the State representative prior to the start of work.

At the end of each working day if any difference exists between the elevation of the existing pavement and the elevation of any excavation within 6 feet of the travelled way, material shall be placed and compacted against the vertical cuts adjacent to the traveled way. During excavation operations, native material may be used for this purpose; however, once the placing of the structural section commences, structural material shall be used. The material shall be placed to the level of the elevation of the top of existing pavement and tapered at a slope of 4:1 or flatter to the bottom of the excavation. Treated base shall not be used for the taper.

When work is not in progress on a trench or other excavation that required closure of an adjacent lane, the traffic cones or portable delineators used for the lane closure shall be placed off of and adjacent to the edge of the traveled way. The spacing of the cones or delineators shall not be more than the spacing used for the lane closure.

Whenever the work causes obliteration of pavement delineation, temporary or permanent pavement delineation shall be in place prior to opening the traveled way to public traffic. Laneline or centerline pavement delineation shall be provided at all times for traveled ways open to public traffic. On multilane roadways edgeline delineation shall be provided at all times for traveled ways open to public traffic.

Whenever lanelines and centerlines are obliterated, the minimum laneline and centerline delineation to be provided shall be temporary reflective raised pavement markers placed at longitudinal intervals of not more than 24 feet. The temporary reflective raised pavement markers shall be the same color as the laneline or centerline markers they replace.

The length of open trench at the end of the day's work shall be determined by the State representative.

**Installations and clearances shall be equal to those required by either the California Public Utilities Commission orders or the California Occupational Safety and Health Regulations (Cal-OSHA), Division of Industrial Safety, Safety Orders, promulgated in the California Administrative Code, Title 8, Chapter 4, whichever is greater.**

#### **INSTALLATION BY OPEN CUT**

When the permit authorizes installation by the open cut method, no more than one lane of the highway pavement shall be open-cut at any one time. Any exceptions shall be in writing by the Department's representative. After the pipe is placed in the open section, the trench is to be backfilled in accordance with specifications, temporary repairs made to the surfacing and that portion opened to traffic before the pavement is cut for the next section.

If at the end of the working day, backfilling operations have not been properly completed, steel bridging shall be required to make the entire highway facility available to the traveling public. The pavement shall be cold planed to a depth equal to the thickness of the plating and to a width and length equal to the plating dimensions.

Restoration of existing AC shall match existing structural section or better.

Compaction of backfill material by ponding or jetting will not be permitted.

PERMIT NO.: 1016-NUK-0179  
PERMITTEE: City of Los Banos  
DATE: April 29, 2016

Excavated material shall be immediately removed from the site and backfilling operations shall begin as the installations progress. Backfill shall be in conformance to Caltrans Standard Specifications, Section 19.

Upon completion of each installation, all excavation within the highway roadbed shall be backfilled and compacted in conformance to Caltrans Standard Specifications, Section 19.

Backfill for installations outside the highway roadbed shall be thoroughly compacted to a density that existed prior to excavation, and made to conform to the surrounding ground surface.

All public or private road approaches shall be restored to their original condition or resurfaced, as directed by the State representative.

Base material shall conform to Caltrans Standard Specifications, Section 26.

Surfacing shall conform to Caltrans Standard Specifications, Section 6 and 39, respectively.

All striping work and pavement markers are to be done under the supervision of a representative of the State, and the cost of such supervision shall be borne by the Permittee.

**MCP (PEDESTRIAN SAFETY)** In addition to the attached General Provisions (TR-0045), the following special provisions are also applicable:

When the work area encroaches upon a sidewalk, walkway, or crosswalk area, special consideration must be given to pedestrian safety. Protective barricades, fencing, handrails, and bridges, together with warning and guidance devices and signs must be utilized so that the passageway for pedestrians, especially blind and other physically handicapped is safe and well defined and shown on the approved permit plan.

Pedestrian walkways and canopies within State right of way shall comply with the requirements of the applicable local agency or the latest edition of the Uniform Building Code; whichever contains the higher standards.

**SP (STEEL PLATE-BRIDGING)**

In addition to the attached General Provisions (TR00-45), the following special provisions for steel plate bridging installation are also applicable:

As required by the State Representative, steel plate bridging and shoring shall conform to the following:

**Method 1 [For speeds more than 45 mph (70 Km/hr):**

The pavement shall be cold planed to a depth equal to the thickness of the plate and to a width and length equal to the dimensions of the plate.

**Method 2 [For speeds 45 mph (70 Km/hr) or less]:**

Approach plate(s) and ending plate (if longitudinal placement) shall be attached to the roadway by a minimum of 2 dowels pre-drilled into the corners of the plate and drilled 2 inches (50 mm) into the pavement. Subsequent plates are butted to each other. Fine graded asphalt concrete shall be compacted to form ramps, maximum slope 8.5% with a minimum 12 inches (305 mm) taper to cover all edges of the steel plates. When steel plates are removed, the dowel holes in

PERMIT NO.: 1016-NUK-0179  
PERMITTEE: City of Los Banos  
DATE: April 29, 2016

the pavement shall be backfilled with either graded fines of asphalt concrete mix, concrete slurry or an equivalent slurry satisfactory to the Caltrans' Representative.

The Permittee is responsible for maintenance of the steel plates, shoring and asphalt concrete ramps.

Unless specifically noted in the provisions of the permit or approved by the State Representative, steel plate bridging should not exceed 4 consecutive working days in any given week. Backfilling of excavations shall be covered with a minimum 3 inches (75 mm) temporary layer of cold asphalt concrete.

The following table shows the minimum thickness of steel plate bridging required for a given trench width:

Trench Width	Minimum Plate Thickness
10" (254 mm)	0.5" (13mm)
1'-11" (584mm)	0.75" (19mm)
2'-7" (787mm)	0.875" (22mm)
3'-5" (1.04m)	1" (25mm)
5'-3" (1.6m)	

**NOTE:** For spans greater than 5'-3" (1.6 m) a structural design shall be prepared by a registered Civil engineer and approved by the State.

Steel plate bridging shall be steel designed for HS20-44 truck loading per Caltrans Bridge Design Specifications Manual. The Permittee shall maintain on the steel plate a non-skid surface having a minimum coefficient of friction equivalent to 0.35 as determined by California Test Method 342 (Encroachment Permits Manual Appendix H). If a different test method is used, the Permittee may utilize standard test plates with known coefficients of friction to correlate skid resistance results to California Test Method 342. These test plates are available from each Caltrans District materials Engineer.

A **Rough Road sign (W8-8)** with black lettering on an orange background may be used in advance of steel plate bridging. This is to be used along with any other required construction signing.

Permittee shall fully conform to the requirements of the Caltrans statewide **NPDES Storm Water Permit, Order No. 2012-0011-DWQ, NPDES No. CAS000003, re-issued by the State Water Resources Control Board on September 19, 2012.** The Permittee shall also conform to the requirements of the General NPDES Permit for construction Activities and any subsequent General Permit in effect at the time of issuance of this Encroachment Permit. These permits regulate storm water discharges associated with year-round construction or special event encroachment activities.

For all projects of 1 acre or more the Permittee shall develop, implement, and maintain a **Storm Water Pollution Prevention Plan (SWPPP)** and for projects less than 1 acre a **Water Pollution Control Program (WPCP)**. Either the Plan or Program shall also conform to the requirements of the Caltrans Storm Water Quality Handbook, Construction Contractor's Guide and Specifications and Caltrans Specification Section 7-1-.01G and subsequent revisions.

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

---

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. **REVOCAION:** 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 7-1.04 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.

**1. GENERAL:** The purpose of these Special Provisions is to provide the Permittee with specifications for water pollution control to minimize, prevent, or control the discharge of material into the air, surface waters, groundwater, and storm sewers owned by the State or local agencies. These provisions are not intended to take the place of the Caltrans Water Pollution Control Program (WPCP) for projects where soil disturbance from work activities less than one acre, or work activities of one acre or more subject to the preparation of the Caltrans Storm Water Pollution Prevention Plan (SWPPP) that would require a waste discharge identification number or coverage under the California Construction General Permit (*Order No. 2009-0009-DWQ, NPDES No CAS000002*). The Permittee shall comply with the following Special Provisions and the direction of the State Representative.

**2. NPDES REQUIREMENTS:** The Permittee shall be responsible for full compliance with the Caltrans Storm Water Program and the Caltrans National Pollutant Discharge Elimination System (NPDES) Permit requirements. It is the Permittee's responsibility to install, inspect, and repair or maintain facilities and devices used for water pollution control practices before performing daily work activities. Installation and maintenance responsibilities on the job site include: 1) soil stabilization materials in work areas that are inactive or prior to storm events, 2) water pollution control devices to control sediment and erosion, 3) implementation of spill and leak prevention procedures for chemical and hazardous substances stored on the job site, 4) material storage, 5) stockpile management, 6) waste management, 7) non-stormwater management, 8) water conservation, and 9) illicit connection, illegal discharge detection and reporting. The Permittee shall report to the state representative when discharges enter into receiving waters, adjacent property, drainage systems or when discharges could be a cause or a threat for water pollution. The Permittee shall also control illicit discharges or illegal dumping prior to start of daily work schedule. Copies of written notices or orders from the Regional Water Quality Control Board or other regulatory agency shall be provided to the State representative within 48 hours of reported activity. For additional information on storm water compliance, visit the State Water Resources Control Boards storm water Website at [http://www.waterboards.ca.gov/water\\_issues/programs/stormwater](http://www.waterboards.ca.gov/water_issues/programs/stormwater)

**3. RESPONSIBILITY FOR DEBRIS REMOVAL:** The Permittee shall be responsible for preventing sediment, trash, debris, and other construction waste from entering the street, the storm drains, local creeks, or any other bodies of water.

**4. SPOILS AND RESIDUE:** The Permittee shall vacuum any saw-cut concrete waste material, debris, residue, etc. No spoils, debris, residue, etc. shall be washed into a drainage system.

**5. SWEEPING:** Sweep paved roads at construction entrance and exit locations and surrounding paved areas daily within the job site during: 1) clearing and grubbing, 2) earthwork, 3) trenching, 4) soil disturbance, 5) pavement grinding and/or cutting, and 6) after observing tracking of material onto or off the State property. Keep dust to a minimum during sweeping activities. Use vacuum whenever dust generation is excessive or sediment pickup is ineffective. Roadways or work areas shall not be washed down with water. Street sweeping operations must conform to Section 13 Water Pollution Control of the State of California standard specifications for construction (most current version) <http://www.dot.ca.gov/hq/esc/oe/specifications/SSPs/2010-SSPs/>.

**6. VEHICLES AND EQUIPMENT:** Permittee shall prevent all vehicles, equipment, etc. from leakage or mud tracking onto

roadways. If leaks cannot be repaired immediately, remove the vehicle or equipment from the job site.

**7. MAINTENANCE AND FUELING OF VEHICLES AND EQUIPMENT:** Maintenance and fueling of equipment shall not result in any pollution at the job site. The Permittee shall immediately clean up spills/leaks, and properly dispose of contaminated soil and materials.

**8. CLEANING VEHICLES AND EQUIPMENT:** Limit vehicle and equipment cleaning or washing at the job site except what is necessary to control vehicle tracking or hazardous waste. The Permittee shall clean all equipment within a bermed area or over a drip pan large enough to prevent run-off. No soaps, solvents, degreasers, etc shall be used in State right of way. Any water from this operation shall be collected and disposed of at an appropriate site. Containment berms or dikes shall be used for fueling, washing, maintaining and washing vehicles or equipment in outside areas. Containment must be performed at least 100 feet from concentrated flows of storm water, drainage courses, and storm drain inlets if within a flood plain, otherwise at least 50 feet if outside the floodplain. Keep adequate quantities of absorbent spill-cleanup material and spill kits in the fueling or maintenance area and on fueling trucks.

**9. DIESEL FUELS:** The use of diesel fuel from petroleum or other fossil fuel as a form-oil or solvent is not allowed.

**10. WEATHER CONDITIONS AT WORKSITE:** Any activity that would generate fine particles or dust that could be transported off site by stormwater shall be performed during dry weather.

**11. HOT MIX ASPHALT:** Runoff from washing hot mix asphalt shall not enter into any drainage conveyances.

**12. PROTECTION OF DRAINAGE FACILITIES:** The Permittee shall protect/cover gutters, ditches, drainage courses, and inlets with gravel bags, fiber rolls, State approved fabric filters, etc., to the satisfaction of the State representative during grading, paving, saw-cutting, etc. and materials must conform to Section 13-6.02 Materials for Water Pollution Control of the State of California standard specifications for construction (most current version). No such protection measures shall cause an obstruction to the traveling public. The Permittee shall implement spill and leak prevention procedures for chemicals and hazardous substances stored on the job site in accordance to section 13-4.03B(1-3) Spill Prevention and Control, Water Pollution Control, of the State of California standard specifications for construction (2010 version).

**13. PAINT:** Rinsing of painting equipment and materials is not permitted in state right-of-way. When thoroughly dry, dispose of the following as solid waste: dry latex paint, paint cans, used brushes, rags, gloves, absorbent materials, and drop cloths. Oil based paint sludge and unusable thinner shall be disposed of at an approved hazardous waste site.

**14. CONSTRUCTION MATERIALS:** Stockpile of all construction materials, including, but not limited to; pressure treated wood, asphalt concrete, cold mix asphalt concrete, concrete, grout, cement containing premixes, and mortar, shall conform to section 13-4.03C Material Management (Storage & Stockpiles), Water Pollution Control, of the State of California standard specifications for construction (2010 version).

**15. CONCRETE EQUIPMENT:** Concrete equipment shall be washed in a designated washing area in a way that does not contaminate soil, receiving waters, or storm drain systems.

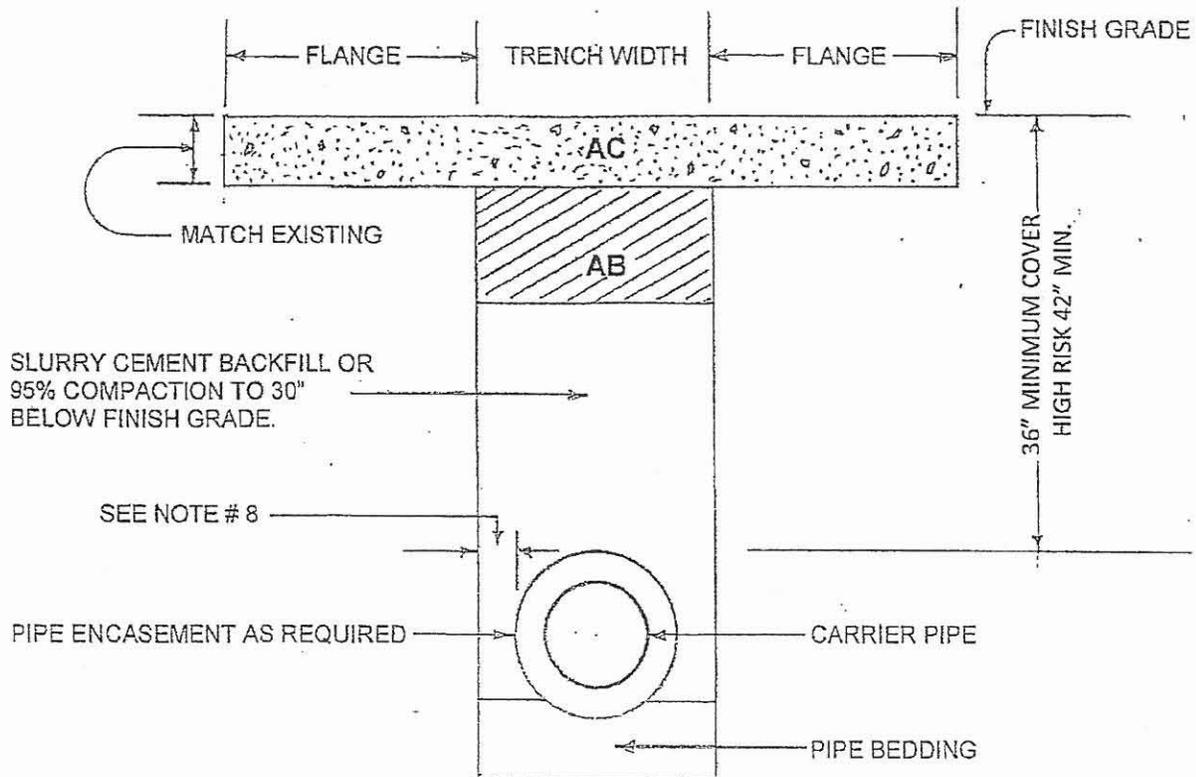
**STORM WATER SPECIAL PROVISIONS for MINIMAL or NO IMPACT**

TR-0400 (Rev 09/2012)

- 16. EXISTING VEGETATION:** Established existing vegetation is the best form of erosion control. Minimize disturbance to existing vegetation. Damaged or removed vegetation shall be replaced as directed by the State Representative.
- 17. SOIL DISTURBANCE:** Soil disturbing activities shall be avoided during the wet weather season. If construction activities during wet weather are allowed in your permit, all necessary erosion control and soil stabilization measures shall be implemented in advance of soil disturbing activity.
- 18. SLOPE STABILIZATION AND SEDIMENT CONTROL:** Consider a certified expert in Erosion and Sediment control in cases where slopes are disturbed during construction. The Permittee is directed to comply with Section 13.5 Temporary Soil Stabilization and Section 21 Erosion Control of the State of California (2010 version) standard specifications for construction during application of temporary soil stabilization measures to the soil surface. Fiber rolls or silt fences may be required down slope until permanent soil stabilization is established. Remove the accumulated sediment whenever the sediment accumulates to 1/3 of the linear sediment barrier height.
- 19. STOCKPILES:** Stockpiles containing aggregate and/or soil shall be stored at least 100 feet from concentrated flows of storm water, drainage courses, and storm drain inlets if within a flood plain, otherwise at least 50 feet if outside the floodplain, and shall be covered and protected with a temporary perimeter sediment barrier. Cold mix stockpiles shall be stored on an impermeable surface and covered with 9mil plastic to prevent contact with water.
- 20. DISCOVERY OF CONTAMINATION:** The State Representative shall be notified in case any unusual discoloration, odor, or texture of ground water, is found in excavated material or if abandoned, underground tanks, pipes, or buried debris are encountered.
- 21. SANITARY AND SEPTIC WASTE:** Do not bury or discharge wastewater from a sanitary or septic system within the highway. Properly connected sewer facilities are free from leaks. With State Representative approval place portable sanitary facility at least 50 feet away from storm drains, receiving waters, and flow lines. Permittee must comply with local health agency provisions when using an on-site disposal system.
- 22. LIQUID WASTE:** Prevent job site liquid waste from entering storm drain systems and receiving waters. Drilling slurries, grease or oil-free waste water or rinse water, dredging, wash water or rinse water running off a surface or other nonstorm water liquids not covered under separate waste water permits shall be held in structurally sound, leak-proof containers, such as portable bins or portable tanks. Store containers at least 50 feet away from moving vehicles and equipment. Liquid waste may require testing to determine hazardous material content prior to disposal.
- 23. WATER CONTROL AND CONSERVATION:** Manage water use in a way that will prevent erosion and the discharge of pollutants into storm drain systems and receiving waters. Direct runoff water, including water from water line repair from the job site to areas where it can infiltrate into the ground. Direct water from off-site sources around the job site or from contact with jobsite water.
- 24. PILE DRIVING:** Keep spill kits and cleanup materials at pile driving locations. Park pile driving equipment over drip pans, absorbent pads, or plastic sheeting with absorbent material, and away from storm water run-on when not in use.
- 25. DEWATERING:** Dewatering consists of discharging accumulated storm water, groundwater, or surface water from excavations or temporary containment facilities. All dewatering operations shall comply with the latest Caltrans guidelines. Contact State representative for approval of dewatering discharge by infiltration or evaporation, otherwise, any effluent discharged into a permitted storm water system requires approval from the Regional Water Quality Control Board. Prior to the start of dewatering, the Permittee shall provide the State Representative with a dewatering and discharge work plan that complies with section 13-4.01B Submittals, Water Pollution Control, of the State of California standard specifications for construction (2010 version). A copy of the Waste Discharge Permit and a copy of a valid WDID number issued by the Regional Board shall be provided to the State representative.

## TYPICAL T-SECTION

### Trench Detail on Paved Areas on Travelled Way For Encroachment Permit Projects



#### NOTES:

1. Cover may vary, see attached plans and permit provisions.
2. Minimum cover on freeway is 7' 6".
3. Pavement cutting shall be saw cut at all time.
4. Sketch is to emphasize the "T" structural section above trench.
5. Trenches 12" wide and less must have a minimum flange of 24".
6. Trenches 12" to 24" wide must have a minimum flange of 36".
7. Trenches 24" wide and over must have a minimum flange of 60".
8. Clearance between side of trench and pipe shall be 6" for 42" diameter and less and 12" for over 42".
9. 90% compaction below 30" from finish grade is acceptable.

Replace "Reserved" in section 12-4.05F with:

Chart no. F1 Conventional Highway Lane Requirements																									
County: Merced							Route/Direction: 165/Northbound - Southbound							PM: 8.79/8.90											
Closure limits: From Mercy Springs Road/Pacheco Blvd to 0.1 mile north of Route 152																									
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon-Thu	1	1	1	1	1	1	S	S	S	S	S	S	S	S	S	S	S	S	S	S	1	1	1	1	
Fri	1	1	1	1	1	1	S	S	S	S	S	S	S	S	S										
Sat																									
Sun																					1	1	1	1	

Legend:

1 Provide at least 1 through traffic lane open in direction of travel

S Shoulder closure allowed

Work allowed within the highway where shoulder or lane closure is not required

REMARKS: Permit # 1016-NUK-0179 "Valid Through Construction Year 2016"  
4/29/2016

- Above window must be re-evaluated or updated if actual construction takes place later than construction year shown above.
- See Lane Closure Restriction for Designated Legal Holidays and Special Days table in Maintain Traffic of these special provisions for additional closure restrictions.
- Closures of local roads will require City/County concurrence.

Replace "Reserved" in section 12-4.05F with:

Chart no. F2 Conventional Highway Lane Requirements																									
County: Merced						Route/Direction: 165/Northbound - Southbound						PM: 8.90/9.94													
Closure limits: From 0.1 mile north of Route 152 to Overland Avenue																									
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon-Thu	R	R	R	R	R	R	S	S	S	S	S	S	S	S	S	S	S	S	S	S	R	R	R	R	
Fri	R	R	R	R	R	R	S	S	S	S	S	S	S	S	S										
Sat																									
Sun																					R	R	R	R	

Legend:

R Provide at least 1 through traffic lane, not less than 10 feet in width, for use by both directions of travel (Reversing Control)

S Shoulder closure allowed

Work allowed within the highway where shoulder or lane closure is not required

REMARKS: Permit # 1016-NUK-0179 "Valid Through Construction Year 2016"  
4/29/2016

- Above window must be re-evaluated or updated if actual construction takes place later than construction year shown above.
- See Lane Closure Restriction for Designated Legal Holidays and Special Days table in Maintain Traffic of these special provisions for additional closure restrictions.
- Closures of local roads will require City/County concurrence.

Replace "Reserved" in section 12-4.05F with:

Chart no. F3 Conventional Highway Lane Requirements																									
County: Merced							Route/Direction: 152 EB_WB							PM: 21.272											
Closure limits: Intersection of Route 165																									
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon-Thu	1	1	1	1	1	1	S	S	S	S	S	S	S	S	S	S	S	S	S	S	1	1	1	1	
Fri	1	1	1	1	1	1	S	S	S	S	S	S	S	S	S										
Sat																									
Sun																					1	1	1	1	

Legend:

1 Provide at least 1 through traffic lane open in direction of travel

S Shoulder closure allowed

Work allowed within the highway where shoulder or lane closure is not required

REMARKS: Permit # 1016-NUK-0179 "Valid Through Construction Year 2016"  
4/29/16

- Above window must be re-evaluated or updated if actual construction takes place later than construction year shown above.
- See Lane Closure Restriction for Designated Legal Holidays and Special Days table in Maintain Traffic of these special provisions for additional closure restrictions.
- Closures of local roads will require City/County concurrence.

Replace "Reserved" in section 12-4.04 with:

Lane Closure Restriction for Designated Holidays and Special Days										
Thu	Fri	Sat	Sun	Mon	Tues	Wed	Thu	Fri	Sat	Sun
x	H xx	xx	xx							
	SD xx	xx	xx							
x	xx	H xx	xx							
		SD xx	xxx							
	x	xx	H xx	xx						
			SD xx	xxx						
	x	xx	xx	H xx	xx					
	x	xx	xx	SD xx	xxx					
				x	H xx	xx				
				x	SD xx	xxx				
					x	H xx	xx			
						SD xx	xxx			
						x	H xx	xx	xx	xx
							SD xx			

Legend:

	Refer to lane requirement charts
x	The full width of the traveled way must be open for use by traffic after 6am.
xx	The full width of the traveled way must be open for use by traffic.
xxx	The full width of the traveled way must be open for use by traffic until 9am.
H	Designated holiday
SD	Special day

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 1515 MARKET STREET, SACRAMENTO, CALIFORNIA 95833  
 (916) 227-1500

APPROVED FOR THE PROJECT BY: *[Signature]*  
 REGISTERED CIVIL ENGINEER  
 No. 432615  
 EXPIRES 12/31/13

APRIL 19, 2013  
 PLANS APPROVAL DATE

FOR THE PROJECT: *[Project Name]*  
 PROJECT NO. *[Project No.]*  
 SHEET NO. *[Sheet No.]*

TO ACCOMPANY PLANS 7A1EB

TABLE 3

**ADVANCE WARNING SIGN SPACING**

ROAD TYPE	DISTANCE BETWEEN SIGNS <sup>M</sup>		
	A	B	C
URBAN - 25 MPH OR LESS	100	100	120
URBAN - MORE THAN 25 MPH TO 40 MPH	230	250	230
URBAN - MORE THAN 40 MPH	330	350	330
RURAL	500	500	520
EXPRESSWAY / FREEWAY	1000	1500	224C

<sup>M</sup> - The distances are approximate, are intended for guidance, and should be modified by the engineering judgment. The distances are approximate, are intended for guidance, and should be modified by the engineering judgment. The distances are approximate, are intended for guidance, and should be modified by the engineering judgment. If necessary, by increasing or decreasing the recommended distances.

TABLE 2

**LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING**

SPEED <sup>M</sup>	MIN D <sup>M</sup>	DOWNGRADE MIN D <sup>M</sup>			4+H
		-3X	-5X	-7X	
20	115	116	120	126	ff
25	155	158	165	173	ff
30	200	205	215	227	ff
35	250	257	271	287	ff
40	305	315	333	354	ff
45	360	378	400	427	ff
50	425	446	474	507	ff
55	495	520	553	593	ff
60	570	598	638	686	ff
65	645	682	728	785	ff
70	730	771	825	891	ff

<sup>M</sup> - Speed is posted speed limit, off-peak 85th-percentile speed prior to work start-up, or the anticipated operating speed in mph  
<sup>M</sup> - 485 on established downgrade steeper than 3 percent and longer than 1 mile.

TABLE 1

**TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING**

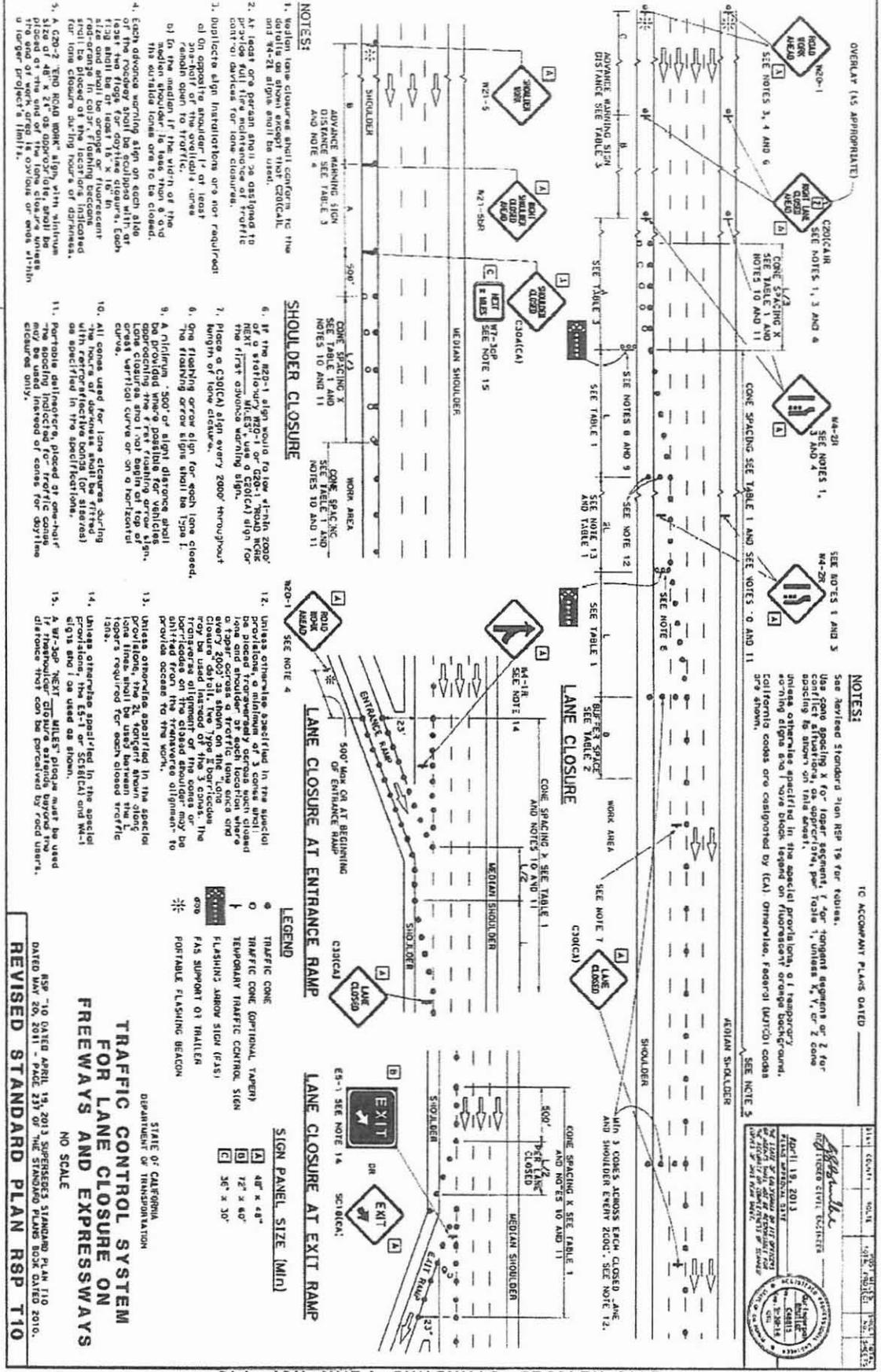
SPEED (SI)	MINIMUM TAPER LENGTH <sup>M</sup> FOR WIDTH OF OFFSET 12 FEET (4)				MAXIMUM CHANNELIZING DEVICE SPACING				
	TANGENT	MERGING	SHIFTING	SHOULDER	TAPER	TANGENT	CONFLICT	Y	Z <sup>M</sup>
20	150	80	40	27	20	40	16	ff	ff
25	230	125	63	42	25	50	12	ff	ff
30	310	160	80	60	30	60	15	ff	ff
35	390	210	105	85	35	70	17	ff	ff
40	470	260	130	105	40	80	20	ff	ff
45	550	310	155	125	45	90	22	ff	ff
50	630	360	180	150	50	100	25	ff	ff
55	710	410	205	170	55	110	27	ff	ff
60	790	460	230	190	60	120	30	ff	ff
65	870	510	255	210	65	130	32	ff	ff
70	950	560	280	230	70	140	35	ff	ff

<sup>M</sup> - For other offsets, use the following merging taper length formula for L: For speed of 40 mph or less, L = 85L/60. For speed of 45 mph or more, L = 85.

Notes: L = taper length in feet  
 M = Width of offset in feet  
 S = Posted speed limit, off-peak 85th-percentile speed prior to work start-up, or the anticipated operating speed in mph

4H - 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).

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL SYSTEM  
 FOR LANE CLOSURE ON  
 FREEWAYS AND EXPRESSWAYS**  
 NO SCALE



OVERLAY (AS APPROPRIATE)

IC ACCOMPANY PLANS DATED \_\_\_\_\_

DATE: APRIL 19, 2011  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 APPROVED BY: [Signature]

- NOTES:**
- 1. See revised Standard Plan RSP 19 for tables.
  - 2. Use cone spacing X for taper segments, Y for tangent segments or Z for constant width segments, on appropriate post type, unless X, Y, or Z cone spacing is specified in the special provisions of the contract.
  - 3. When a sign is specified by the special provisions of the contract, the contractor shall use the sign specified in the special provisions of the contract.
  - 4. California codes are copyrighted by (CA) Otterbein, Federal (MTCO) codes are shown.

- NOTES:**
- 1. See Notes 1, 3 and 4.
  - 2. See Notes 1, 3 and 4.
  - 3. See Notes 1, 3 and 4.
  - 4. See Notes 1, 3 and 4.
  - 5. See Notes 1, 3 and 4.
  - 6. See Notes 1, 3 and 4.
  - 7. See Notes 1, 3 and 4.
  - 8. See Notes 1, 3 and 4.
  - 9. See Notes 1, 3 and 4.
  - 10. See Notes 1, 3 and 4.
  - 11. See Notes 1, 3 and 4.
  - 12. See Notes 1, 3 and 4.
  - 13. See Notes 1, 3 and 4.
  - 14. See Notes 1, 3 and 4.
  - 15. See Notes 1, 3 and 4.

**NOTES:**

1. Median lane closure shall conform to the provisions of the applicable codebook.
2. At least one person shall be assigned to each end of the closure to maintain traffic control.
3. Duplicate sign installations are not required on opposite shoulders of least 500' in length. The flashing arrow sign shall be placed on the median shoulder, if less than 600' in length, to provide advance warning of the closure.
4. Each advance warning sign on each side of the roadway shall be installed with a minimum spacing of 15' x 15' in the shoulder and shall be orange or fluorescent in color. The sign shall be placed on the shoulder for lane closure during hours of darkness.
5. A G20-2 "ROAD AHEAD" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure where a larger project's limits.

**SHOULDER CLOSURE**

6. If the sign is placed in the shoulder, the sign shall be placed in the shoulder.
7. Place a C30(CA) sign every 200' throughout the length of lane closure.
8. One flashing arrow sign for each lane closed. The flashing arrow sign shall be 1200' in length.
9. A minimum 300' of sign distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures and 1' or longer on top of the shoulder shall be 15' x 15' in size.
10. All cones used for lane closures during construction shall be placed in the shoulder with reflective bands for at least 100' on each side of the closure.
11. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closure only.

**LANE CLOSURE AT ENTRANCE RAMP**

12. Unless otherwise specified in the special provisions, the sign shall be placed in the shoulder and shall be placed in the shoulder.
13. Unless otherwise specified in the special provisions, the sign shall be placed in the shoulder.
14. Unless otherwise specified in the special provisions, the sign shall be placed in the shoulder.
15. Unless otherwise specified in the special provisions, the sign shall be placed in the shoulder.

**LEGEND**

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- TEMPORARY TRAFFIC CONTROL SIGN
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- PORTABLE FLASHING BEACON

**SIGN PANEL SIZE (MIN)**

- 48" x 48"
- 72" x 60"
- 36" x 30"

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL SYSTEM  
 FOR LANE CLOSURE ON  
 FREEWAYS AND EXPRESSWAYS**  
 NO SCALE  
 RSP 10 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN 110  
 DATED MAY 20, 2011 - PAGE 237 OF THE STANDARD PLANS BOOK DATED 2010.  
**REVISED STANDARD PLAN RSP T10**





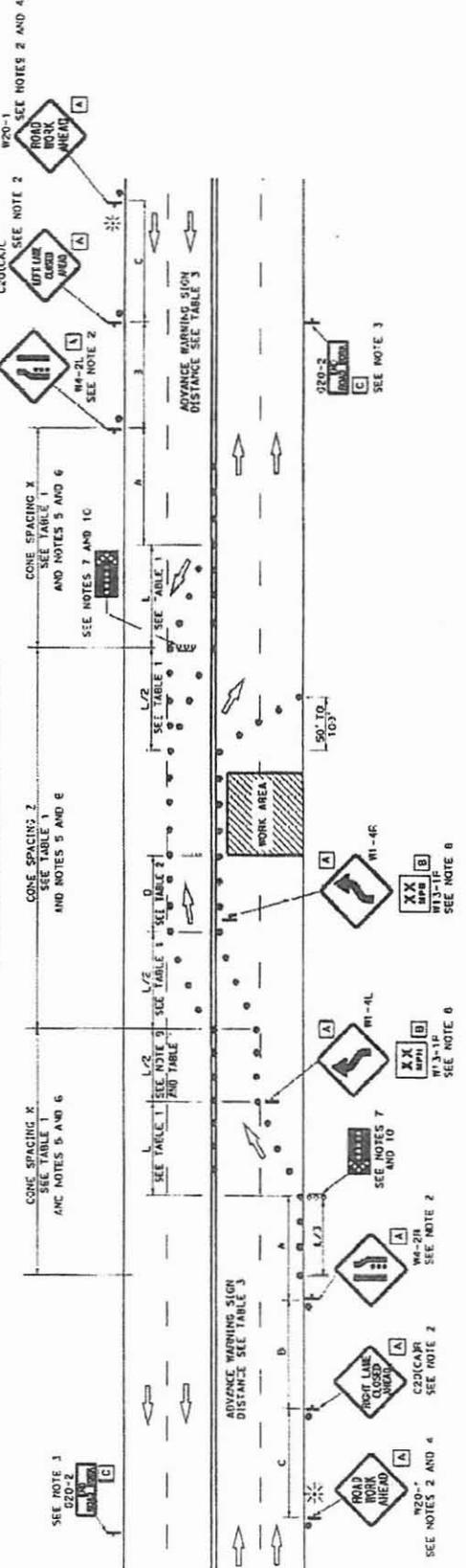
DATE: APRIL 19, 2013  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 PROJECT NO.: [Blank]  
 COUNTY: [Blank] ROUTE: [Blank] SCALE: [Blank]  
 PROJECT TITLE: [Blank]

**NOTES:**  
 See Revised Standard Plan RSP T9 for notes.  
 Use new spacing as shown on appropriate sheet or 2 for cone spacing as appropriate, per Table 1, unless A, B, or C cone spacing is shown on this sheet.  
 Unless otherwise specified in the special provisions, all temporary warning signs shall have black legends on fluorescent orange backgrounds. California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

**LEGEND**

TRAFFIC CONTROL SIGN	TRAFFIC CONTROL SIGN	TRAFFIC CONTROL SIGN
(A) 48" x 48"	(B) 24" x 24"	(C) 36" x 18"
(A) 48" x 48"	(B) 24" x 24"	(C) 36" x 18"
(A) 48" x 48"	(B) 24" x 24"	(C) 36" x 18"

**TYPICAL HALF ROAD CLOSURE**



- NOTES:**
- At least one person shall be assigned to provide routine maintenance of traffic control devices for lane closure unless otherwise directed by the Engineer.
  - Each advance warning sign in each direction of travel shall be equipped with at least two reflective triangles. The triangles shall be at least 16" x 16" in size and one shall be orange or fluorescent red-orange in color. Flashing devices shall be placed at the locations specified for lane closure during hours of darkness.
  - A 200-ft "TAD ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
  - If the W20-1 sign would follow with a 200-ft advance warning sign:  
 a. A 200-ft "TAD ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.  
 b. A 200-ft "TAD ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
  - All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM  
 FOR HALF ROAD CLOSURE ON  
 MULTILANE CONVENTIONAL  
 HIGHWAYS AND EXPRESSWAYS**

NO SCALE

RSP T12 DATED APRIL 15, 2013 SUPERSEDES STANDARD PLAN T12 DATED MAY 20, 2011 - PAGE 20 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP T12**





