



# COUNTY OF SAN JOAQUIN

DEPARTMENT OF PUBLIC WORKS  
P.O. BOX 1810-1810 E. HAZELTON AVENUE  
STOCKTON, CALIFORNIA 95201  
(209) 468-3000  
FAX # (209) 468-9324

Permit No: **PS-1900140**  
Date Issued: 01/17/2019  
Start Date: 01/17/2019  
Exp. Date: 04/01/2019  
Project No: PWP730052  
Quad:

UE/CR/PM NO:84006170

## ENCROACHMENT PERMIT

To: PACIFIC GAS & ELECTRIC - STOCKTON  
PO BOX 930  
STOCKTON, CA 95201

### Encroachment Type:

Bore (up to 12 inch Dia)			
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### Location:

TURNER RD; LOWER SACRAMENTO RD; MOKELUMNE ST; WOODBRIDGE RD

In compliance with your request of 01/17/2019, permission is hereby granted to do work in County right-of-way as shown on attached application and subject to all the terms, conditions and restrictions written below or printed as general or special provisions on any part of this form. See reverse side and attached sheet, if any.

Trench excavations for service connections will not be permitted within ten feet (10') of pavement centerline unless otherwise approved by the Director. Surface of trench patches shall match in kind and be smooth and even with that of abutting surface. Special attention shall be given to depth of utilities through roadside area in anticipation of future drainage facilities, road profile and/or frontage development. All underground utility facilities are to be established and accurately dimensioned on sketches from surveyed centerline of road right of way, or from right of way (border) lines.

Permittee shall call the Department of Public Works, Field Engineering Division (Permit Inspections) at (209)953-7421 at least forty-eight hours prior to beginning any work within the County right of way. All work performed under this permit shall conform to the rules and regulations pertaining to safety established by the California Division of Industrial Safety and Cal-OSHA.

The jobsite shall be kept in a safe condition at all times by the daily removal of any excess dirt or debris which might be a hazard to either pedestrian or automobile traffic. All necessary traffic convenience and warning devices and personnel shall be provided, placed and maintained by and at the sole expense of the Permittee in accordance with the latest edition of the CALTRANS Manual of Traffic Control.

After completion of the work permitted herein, all debris, lumber, barricades, or any excess material shall be removed and the jobsite left in a neat workmanlike manner. Immediately following completion of construction permitted herein, Permittee shall fill out and mail notice of completion (see attached post card) provided by Grantor.

### Special Comments:

Traffic Control Per MUTCD

FORMS: SS/WW, R-29

Est. Permit Fee: \$1,050.00

WHITE -Permittee  
GOLDENROD -PWD Central File  
YELLOW -Field Inspection  
PINK -Permit Section

KRIS BALAJI, Director  
Department of Public Works

By:   
Permit Section



## ENCROACHMENT PERMIT GENERAL PROVISIONS

13-1

1. This permit is issued under and subject to all laws and ordinances of agencies governing the encroachment herein permitted. See the following references:  
STREETS AND HIGHWAYS CODE
  1. Division 1, Chapter 3
  2. Division 2, Chapter 2, Section 942
  3. Division 2, Chapter 4, Section 1126
  4. Division 2, Chapter 5.5 and Chapter 6

SAN JOAQUIN COUNTY ORDINANCES NUMBERED: 324, 441, 648, 662, 672, 695, 700, 860, 892, 3359, and 3675.

2. It is understood and agreed by the Permittee that the performance of any work under this permit shall constitute an acceptance of all the provisions contained herein and failure on the Permittee's part to comply with any provision will be cause for revocation of this permit. Except as otherwise provided for public agencies and franchise holders, this permit is revocable on five days notice.
3. All work shall be done subject to the supervision of and the satisfaction of the grantor. The Permittee shall at all times during the progress of the work keep the County Highway in as neat and clean condition as is possible and upon completion of the work authorized herein, shall leave the County Highway in a thoroughly neat, clean and usable condition.
4. The Permittee also agrees by the acceptance of this permit to properly maintain any encroachment structure placed by the Permittee on any part of the County Highway and to immediately repair any damage to any portion of the highway, which occurs as a result of the maintenance of the said encroachment structure, until such time as the Permittee may be relieved of the responsibility for such maintenance by the County of San Joaquin.
5. The Permittee also agrees by the acceptance of this permit to make, at its own expense, such repairs as may be deemed necessary by the County Department of Public Works.
6. It is further agreed by the Permittee that whenever construction, reconstruction or maintenance work upon the highway is necessary, the installation provided for herein shall, upon request of the County Department of Public Works, be immediately moved or removed by and at the sole expense of the Permittee.
7. No material used for fill or backfill in the construction of the encroachment shall be borrowed or taken from within the County right of way.
8. All work shall be planned and carried out with as little inconvenience as possible to the traveling public. No material shall be stacked within eight feet (8') of the edge of the pavement or traveled way unless otherwise provided herein. Adequate provision shall be made for the protection of the traveling public. Traffic control standards shall be utilized including barricades; approved signs and lights; and flagmen, as required by the particular work in progress.
9. The Permittee, by the acceptance of this permit, shall assume full responsibility for all liability for personal injury or damage to property which may arise out of the work herein permitted or which may arise out of the failure of the part of the Permittee to properly perform the work provided under this permit. In the event any claim of such liability is made against the County of San Joaquin or any department, official or employee thereof, the Permittee shall defend, indemnify, and hold each of them harmless for such claim.
10. All backfill material is to be moistened as necessary and thoroughly compacted with mechanical means. If required by the County Director of Public Works, such backfill shall consist of gravel or crushed rock. The Permittee shall maintain the surface over structures placed hereunder as may be necessary to insure the return of the roadway to a completely stable condition and until relieved of such responsibility by the County Department of Public Works. Wherever a gravel, crushed rock or asphalt surface is removed or damaged in the course of work related to the permitted encroachment, such material shall either be separately stored and replaced in the roadway as nearly as possible in its original state or shall be replaced in kind, and the roadway shall be left in at least as good a condition as it was before the commencement of operations of placing the encroachment structure.
11. Whenever it becomes necessary to secure permission from abutting property owners for the proposed work, such authority must be secured by the Permittee prior to starting work.
12. The current and future safety and convenience of the traveling public shall be given every consideration in the location and methods of construction utilized.
13. The Permittee is responsible for the preservation of survey monuments located within the area of work herein permitted. Prior to the start of construction, survey monuments that potentially may be disturbed shall be located and referenced by a Licensed Land Surveyor, and a Corner Record filed with the County Surveyor. Any Survey Monuments disturbed during the course of construction shall be reestablished by a Licensed Land Surveyor and another Corner Record filed with the County Surveyor. (Land Surveyors' Act Section 8771)
14. Prior to any excavation, the Permittee shall notify USA North (Underground Service Alert of Northern California and Nevada) at 811 or 800-227-2600 forty-eight (48) hours in advance.



# APPLICATION FOR ENCROACHMENT PERMIT

## PLEASE PRINT:

Date 10/17/2018

To: San Joaquin County  
Department of Public Works

Mears Group, Inc. on behalf of Pacific Gas & Electric Co.  
(Applicant Name)

2021 Omega Road Suite 110  
(Mailing Address)

San Ramon, CA, 94583  
(City, State, Zip Code)

Mears - Jennie Keyes: 989-330-1421/PG&E - Brian Discka: 925-324-1128

(Area Code - Telephone Number)  
Mears - jennie.keyes@mears.net/PG&E - B1D8@pge.com  
(Email Address)

## OFFICE USE ONLY

JOB # 730052 REF # \_\_\_\_\_  
APN \_\_\_\_\_ CR # \_\_\_\_\_  
EXP. DATE \_\_\_\_\_  
VALID \_\_\_\_\_ TO \_\_\_\_\_ DRIVEWAYS:  
STREET \_\_\_\_\_ \* \_\_\_\_\_  
AREA \_\_\_\_\_ QUAD \_\_\_\_\_ \* \_\_\_\_\_  
TYPE \_\_\_\_\_ \* \_\_\_\_\_  
FORMS \_\_\_\_\_  
NOTES \_\_\_\_\_

Sketch (Detailed plans may be submitted)

Please see attached for Site Drawings and Traffic Control Plans.

The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the multiple \_\_\_\_\_ side of various streets, listed below for \_\_\_\_\_ approximately 6755 feet/mile feet of Turner Rd, Lower Sacramento Rd, Mokelumne St, & Woodbridge Rd., by performing the following work (description of work):  
Rolling survey with a small crew using hand held tools to drill 1/2" holes every 10 ft to measure cathodic protection on an existing PG&E gas line.  
Holes will only be drilled to top of soil and no deeper. We are proposing to use Typical Traffic Control plans from the MUTCD handbook.  
The sites will be restored using Quikrete Concrete & Blacktop repair or to the specifications of the permit.  
Where the pipeline is under soft surface such as gravel or soil, no drilling required. All work is on behalf of PG&E and PG&E will maintain all responsibility for the site and all restoration within the County's Right-of-Way.  
Work will commence on or after 11/26/2018 for approximately 5 days.

I, the undersigned, certify that I am the owner of the respective property, or am qualified to represent the owner and agree to do the work described above in accordance with the rules and regulations of San Joaquin County and subject to inspection and approval.

Signature of Applicant - Title

11/7/2018

Date



October 18, 2018

To Whom It May Concern:

On behalf of Pacific Gas and Electric Company I Brian Dicksa authorize Mears to perform work on our behalf. Mears is also permitted to obtain permits for said work. As a representative of Pacific Gas and Electric I will remain the point of contact to be listed on the permits. Please feel free to contact me if you have any questions.

Respectfully,

A handwritten signature in black ink, appearing to read 'Brian Dicksa', is written over a horizontal line.

Brian Dicksa

Workstream Manager

Pacific Gas and Electric

925 324 1128





Department of Public Works  
Kris Balaji, Director of Public Works  
Fritz Buchman, Deputy Director/Development  
Michael Selling, Deputy Director/Engineering  
Jim Stone, Deputy Director/Operations  
Kristi Rhea, Manager of Strategic Initiatives

## Acknowledgement of Monument Preservation

I, Brett Brusatori, a duly Licensed Land Surveyor or a Professional Engineer  
(Please print)

authorized to perform Land Surveying in the State of California, Registration No. 8775,

hereby acknowledge and accept all responsibility for the monument preservation as required

per Section 8771(a-f) of the Business and Professions Code within the bounds of the

construction activity permitted by San Joaquin County Permit No. PM 84066170.

I further acknowledge that I am hereby responsible for the Acknowledgement of Monument  
Preservation prior to final acceptance of the construction activity.

Signature

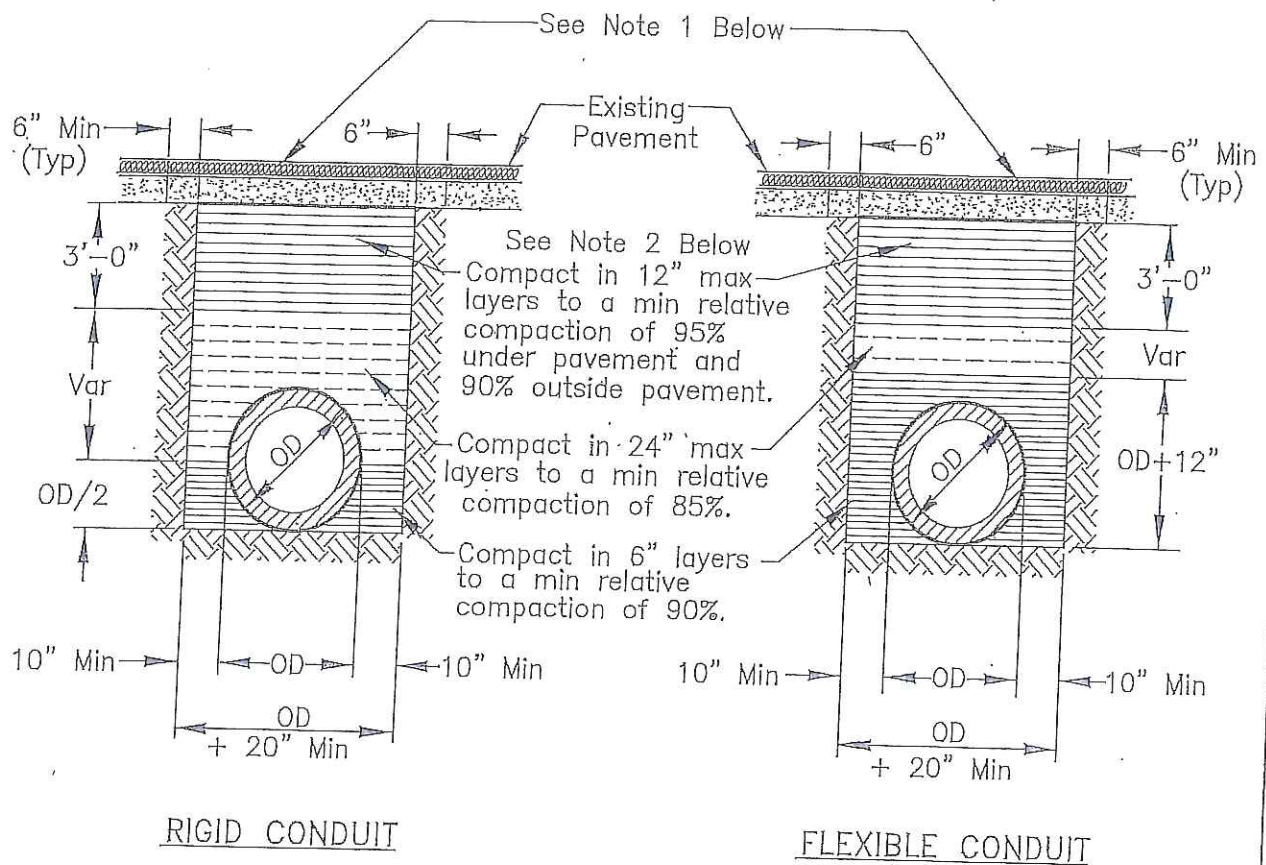
Seal

10/30/18

Date



PS-MONUMENT PRESERVATION



**NOTES:**

1. New pavement shall be 1" thicker than existing pavement, minimum of 0.25 Ft. New base shall be 1" thicker than existing base, min of 0.50 Ft.
2. Select native material or imported granular material as approved by the Director of Public Works. Backfill with materials equal to or better than the existing pavement and base in quality.
3. Relative compaction of materials shall be tested in accordance with the State of California, Dept. of Transportation Testing Manuals, test method No. California 216 or 231.
4. All existing pavement shall be neatly cut to line prior to trench excavation.
5. Jetting or ponding will be permitted within the street right-of-way with a 3 year bond, when approved by the Director of Public Works.
6. When shown by soil composition and compactability, ninety percent (90%) compaction may be used, when approved by the Director of Public Works.
7. Special bedding and backfill requirements may be shown on the plans or specified in the special provisions.



**TYPICAL TRENCH BACKFILL**

COUNTY OF SAN JOAQUIN  
DEPARTMENT OF PUBLIC WORKS

Approved by:

*Thomas M. Gail*

No.	Revision	Description	Date

Date: DEC 2014

Std. Dwg. No.

**R-29**



## GENERAL PROVISIONS

### GOVERNING INSTALLATION OF SUBSURFACE STRUCTURES AND PIPELINES WITHIN COUNTY ROAD RIGHTS-OF-WAY

#### PUBLIC CONVENIENCE AND SAFETY:

- A. Before obstructing any private driveway entrance or County road traveled way with a trench, spoil bank, equipment or other barrier permitted for any prolonged period of time, the Permittee shall notify the known users of the respective thoroughfare(s) involved, and shall provide access for vehicular and pedestrian traffic to and from the road.
  - 1. Unless otherwise permitted, all work shall be conducted in such a manner that no less than one lane of the existing County road traveled way will be maintained open to public traffic during working hours in a smooth and safe riding condition(s). Two lanes shall be open after working hours.
  - 2. In cases where road closure is permitted, the permission to close the road will be granted under the condition that the Permittee notify the following persons and/or agencies of the time, the period of closure, and the detour route at least twenty-four (24) hours prior to said road closure.
    - a. The County of San Joaquin Public Works Department
    - b. The County of San Joaquin Sheriff's Office
    - c. The local postal service
    - d. The local fire district
    - e. The local school district
    - f. The local residents involved
- B. Should hazardous conditions relative to the installation operations warrant flagmen, as many capable flagmen as may be necessary shall be provided by the Permittee and stationed in advance of work to warn and direct traffic.
- C. Lights, signs and barricades shall be furnished, erected and maintained by the Permittee for the adequate warning and convenience of the public, with particular attention to be taken in this regard after dark.
- D. Any excess dirt and/or debris which might be a hazard to either automobile or pedestrian traffic, uncontrollable by lights, signs and barricades, shall be removed from the jobsite daily.

#### STRUCTURES:

- A. Walls of structures shall be such quality and strength that they will resist all pressures and will not crack or be deformed in such a way as to create a hazard or maintenance problem at any time. Therefore, the minimum structural requirements for concrete pipe placed under county road rights-of-way shall conform to the following American Association of State Highway and transportation Officials (AASHTO) designations.
  - 1. For concrete pipe up to and including thirty-three inches (33") inside diameter, extra strength concrete conforming to AASHTO Designation M 170M.
  - 2. For concrete pipe thirty-six inches (36") inside diameter and larger, reinforced concrete pipe conforming to AASHTO Designation M 170M Class III.
  - 3. Plastic pipe conforming to AASHTO Designation M294.
- B. All concrete pipe joints with County road rights-of-way shall be sealed against leakage and/or infiltration with rubber gasket in conformance with Section 65-1.06 of the California Standard Specifications, or with other methods as may be permitted under the Special Provisions.
- C. Cast-in-place concrete pipe, vitrified clay pipe, spiral welded steel pipe, or corrugated aluminum alloy pipe shall not be installed within the County road rights-of-way unless specifically so stated in the Special Provisions, and only under the conditions as provided.
- D. All structures to be buried within the County rights-of-way shall be set at such elevations as to allow minimum coverage of thirty inches (30") to the centerline of the roadways and twelve inches (12") at the bottoms of borrow ditches each side of the roadways. The depths of structures shall be established below a flat plane extending across the rights-of-way, no part of which shall extend above the elevations stated above; manholes, lampholes, valves, etc. not included. Future surface elevations shall be anticipated as nearly as possible and structure elevations shall be established for future adjustments accordingly.
- E. The County hereby reserves the right to specify in the Special Provisions the gage and surface treatment of any galvanized corrugated metal pipe that is to be installed.
- F. All longitudinal utility facilities are to be established (and dimensioned on sketches) from surveyed centerline of road right-of-way, not from right-of-way (border) lines.

#### REPAIRS OF THE COUNTY RIGHT-OF-WAY:

- A. All excavations shall be backfilled and compacted immediately after work therein has been completed.
- B. Trenched shall not be left open farther than 300 feet in advance of pipe laying operations, or 200 feet to the rear thereof, unless otherwise permitted by the Engineer.
- C. Unless otherwise permitted under the Special Provisions, backfill shall be placed and mechanically compacted in such a manner that the relative compaction throughout the entire fill within the County road right-of-way shall conform to the percentages of compaction as shown on the Trench detail.
- D. Backfill material shall be placed in horizontal uniform layers not to exceed in thickness, before compaction, 0.67 foot in the bedding region, one-foot where 90% compaction is required, and two-feet where 80% compaction is required.
- E. No portion of the excavation(s) shall be compacted by ponding or jetting unless a maintenance bond is provided.
- F. Gravel backfill material shall be utilized only where specifically so stated on the face of the permit. It shall be compacted by means of a high-frequency internal vibrator, the compactor to be a size and type approved by the Engineer. Points of compaction shall not be greater than 18" centers and to the full depth of the lift.
- G. All pavements, curbs, gutters, sidewalks, borrow ditches, pipes, head walls, road signs, trees, shrubbery, and/or other permanent road facilities impaired by or as a result of construction operations at the construction site(s) occupied by materials and/or equipment, shall be restored immediately upon backfilling of the excavation to the original grades and cross sections, and to a condition as good as, or better than existing prior to construction.
- H. All surfacing materials of roadways and driveway approaches cut or damaged by or as a result of construction operations, shall be replaced within ONE WEEK following the backfilling of excavation, weather permitting, with compacted layers of surfacing materials at least as thick as the existing, and no less than two inches (2") of asphalt concrete over six inches (6") of aggregate base, both as specified below.
  - 1. Asphalt Concrete: Combined mineral aggregate shall conform to the quality and gradation requirements for Type "B" one-half inch (1/2) maximum aggregate, coarse or medium gradation as specified in Section 39 of the California Standard Specifications. The bituminous binder to be mixed with mineral aggregate shall be paving asphalt having (Grade PG 64-10), unless otherwise directed by the Engineer. Placement of asphalt concrete surfacing shall conform to the applicable provisions of Section 39 of the California Standard Specifications.
  - 2. Aggregate Base: Combined mineral aggregates shall conform to the quality and the grading for three-quarter inch (3/4") maximum size aggregate Class 2 Aggregate Base specified in Section 26 of the California Standard Specifications.
- I. Before acceptance of repairs to the County road rights-of-way, all unsightly and detrimental dirt, dust and/or debris shall be removed and the construction areas left in a neat and presentable condition(s).
  - 1. If necessary, County road traveled way and driveway pavements shall be washed with water to remove dirt and dust.
  - 2. Driveway approaches and field entrance pavements damaged by equipment or spoil banks shall be repaired as directed by the Engineer.
- J. Upon request by the County, any settlement, sagging of surface, or cracking of pavement shall be repaired immediately by and at the sole expense of the Permittee for a period of one year following acceptance of the work.

## SPECIAL PROVISIONS

### Winter Weather Utility Work

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1. **SUPERVISION:** The utility company (**permittee**) shall furnish full-time supervision of all work to insure compliance with the permit provision.
2. **START OF WORK:** No work within the County right-of-way shall be started until the utility company representative has made an evaluation of weather conditions and has determined the work can be accomplished under the provisions of the permit.
3. **CLEAN PAVEMENT:** Dirt and mud shall not be deposited on the pavement outside the area of work, and if inadvertently tracked onto the road travel way shall be removed immediately.
4. **DAILY RESTORATION:** Private driveways and road intersections shall be restored daily.
5. **WEATHER-TIGHT CONDITIONS:** All trenches shall be filled and compacted, ditches and other drainage facilities regarded and opened, and the entire work area restored to weather-tight condition prior to any rain.



SPECIAL CONDITIONS FOR  
ENCROACHMENT PERMIT

1. Maintain traffic controls for all roads. Traffic control delays shall not exceed 15 minutes. Two-way traffic shall be maintained during non-working hours with excavated areas backfilled or plated. During working hours, two-way traffic control shall be maintained with one lane open and appropriate flaggers.
2. Access to all properties shall be maintained at all times except when work is occurring at the access point. Minimal delays will be allowed to provide access within the work zone area. Driveway access shall be fully restored at the end of each workday. Driveways disturbed by the contractor shall be replaced with in-kind or better materials.
3. Residents and businesses shall be notified in writing, as approved by the County, 48 hours in advance of any impacts to their access.
4. Any areas where parking is to be restricted shall have signs noting the restrictions in place at least 48 hours in advance.
5. Existing fences shall not be removed without written consent of the property owner. Such consent shall be submitted to the County prior to the removal. Fences removed shall be restored with in-kind or better materials. Restored fences shall not encroach into County right-of-way.
6. Work shall not be permitted within the San Joaquin County right-of-way between November 1 and March 31 without prior authorization from the San Joaquin County Department of Public Works Field Engineering Division, contact them at 209-953-7421.
7. All destroyed or obliterated pavement markings must be replaced in kind by the permittee. Typical pavement markings include but not limited to lane lines, centerlines, stop and stop ahead legends, limit lines, raised pavement markers and miscellaneous delineators.
8. The Permittee is responsible for the preservation of survey monuments located within the area of work herein permitted. Prior to the start of construction, survey monuments that potentially may be disturbed shall be located and referenced by a Licensed Land Surveyor, and a Corner Record filed with the County Surveyor. Any Survey Monuments disturbed during the course of construction shall be reestablished by a Licensed Land Surveyor and another Corner Record filed with the County Surveyor. (Land Surveyors' Act Section 8771)
9. All pipe and pipeline related facilities including, but not limited to, valves, utility boxes and vaults, and frames and covers shall be maintained by PACIFIC GAS & ELECTRIC, including any facilities that are abandoned in place. PACIFIC GAS & ELECTRIC shall be responsible for any and all costs associated with the removal, relocation and/or adjustment of these facilities as determined by the County at PACIFIC GAS & ELECTRIC's expense. (Streets and Highways Code Section 1463)
10. All future maintenance of the pipeline and related facilities within the County right-of-way will require a San Joaquin County Encroachment Permit.

11. Trenches shall be maintained in a smooth and even condition to the satisfaction of the County throughout the project limits at all times.
12. All trenches shall be completely backfilled or shored and plated at the end of each workday, and the roadway restored to two-way traffic. If plating is to be used, a trench shoring and plating plan suitable for traffic loadings shall be prepared by a registered civil engineer and submitted for prior approval by the County.
13. The contractor shall use San Joaquin County Improvement Standard R-29 when backfilling trenches within the County right-of-way. Where the existing road structural section is below standard, a minimum section of 3 inches of asphalt concrete over 8 inches of aggregate base shall be required.
14. Final paving for trench repair or road resurfacing shall be per Caltrans' specifications and shall not occur between November 1 and March 31, without prior authorization from the San Joaquin County Department of Public Works Field Engineering Division, contact them at 209-953-7421.
15. No paving joints are allowed within paved shoulder; contractor shall pave all the way to outer edge of paved shoulder.
16. Class II Aggregate Base shoulder backing is required from the edge of pavement, a minimum of 4-inches thick by 4-feet wide.
17. Contractor shall establish existing roadway and drainage grades within the construction area. Any repair to roadways and adjacent areas shall match existing grades. Any proposed grade changes shall receive prior approval from County.
18. Above ground vaults, panels and/or other similar facilities will be allowed within the right-of-way if located as far to the outside edge as possible. Utility vaults shall be located a minimum of 4'-0" from edge of pavement.
19. County roads shall be kept clean from mud and debris at all times along the access points and work zone areas during entire project. All standard roadway striping and signage shall be clearly visible, maintained and restored throughout the construction zone during and after the project.
20. In addition to standard dust control measures, streets shall be maintained in a clean condition, free of dirt, mud and debris during construction activities. The contractor shall provide daily, or as needed, street sweeping using a modern mechanical or vacuum-assisted street sweeper.
21. The contractor shall not conduct construction operations in rain or heavy fog conditions.



2-5.0 **TRENCH CUT POLICY**

2-5.01 **General Requirements**

- A. Resurfacing requirements specified in this policy are in addition to the trench resurfacing requirements specified by County Standard Drawing No. R-29.
- B. For the purpose of this policy, "Surfacing Age" is defined as the age of the most recently completed roadway surfacing, including construction, reconstruction, or major overlay.
- C. Where the application of seal coats is required, a Type II Slurry Seal will be used in accordance with State Standard Specifications, Section 37-2.
- D. The permittee must post a one-year maintenance bond or cash deposit, in an amount specified by the Department.
- E. All pavement markings destroyed or obliterated must be replaced in kind by the permittee. Typical pavement markings include, but are not limited to, lane lines, centerlines, stop and stop ahead legends, limit lines, raised pavement markers, and miscellaneous delineators.
- F. The permittee is responsible for Survey Monuments disturbed by trenching and is required to file a corner record and to reestablish them using a Licensed Land Surveyor after the trench restoration is completed.
- G. Functional classification maps and Public Works Project Advertising Schedules are references for this policy.
- H. To facilitate scheduling and planning, Public Works staff will make available the most current Project Advertising Schedule at the monthly Utility Coordination Meeting and make it available to the public, at the Permits Counter, in January each year.

2-5.02 **Collectors, Arterials and Expressways**

- A. Surfacing Age less than Three (3) Years: No pavement cuts. Exceptions may be approved in accordance with Section 2-5.04 EXCEPTIONS.
- B. Surfacing Age Three (3) Years and Over:
  - 1. Longitudinal Trench Cutting in Paved Shoulder

Areas:

The entire shoulder of the road is to be resurfaced. The existing surfacing adjacent to the trenched area shall be planed to accommodate the overlay in a manner that does not cause drainage concerns. The nearest pavement cut shall be a minimum of three (3) feet from the edge of pavement, or the remaining pavement shall also be removed and replaced. (See County Standard Drawing No. R-37).

2. Longitudinal Trenches within Traveled Lanes:

The entire traveled lane where the trench is located is to be resurfaced with a one (1) inch asphalt concrete overlay. The existing surfacing adjacent to the trenched area shall be planed to accommodate the overlay in a manner that does not cause drainage concerns. The overlay shall be in accordance with State Standard Specifications, Section 39. Aggregate gradation shall be consistent with the existing surfacing material. (See County Standard Drawing No. R-37).

3. Cross-Cutting:

Cross-cutting is allowed at a minimum interval of 150 feet. At each cross-cut location a minimum of ten (10) feet on each side of trench shall be planed and resurfaced with one (1) inch asphalt concrete. If cross cuts are within the 150 feet minimum interval, the entire section between the first and last cross cut shall be planed and resurfaced with one (1) inch asphalt concrete. (See County Standard Drawing No. R-36).

4. The conditions described in paragraphs 1, 2 and 3 above will not apply if resurfacing is scheduled within two years.

2-5.03 Local Roads

A. Surfacing Age Under Three (3) years: No pavement cuts allowed. Exceptions may be approved in accordance with Section 2-5.04 EXCEPTIONS.

B. Surfacing Age Three (3) to Five (5) Years:

1. Longitudinal cuts are permitted. A seal coat is required for that half of the roadway containing the trench. (See County Standard Drawing No. R-37).

2. Cross-cutting is allowed under the same conditions as Section 2-5.02B-3. If cross-cuts occur within the 150 feet minimum interval, resurfacing may be substituted with a slurry seal for that half of the roadway. (See County Standard Drawing No. R-36).

#### 2-5.04 Exceptions

Excavation is prohibited in newly renovated County roadways for three (3) years after a notice of completion has been filed for a roadway improvement project, or a new roadway has been accepted. The Director of Public Works may approve exceptions that are in the best interest of the public, including but not limited to:

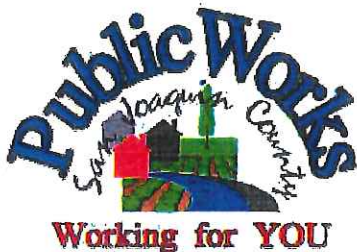
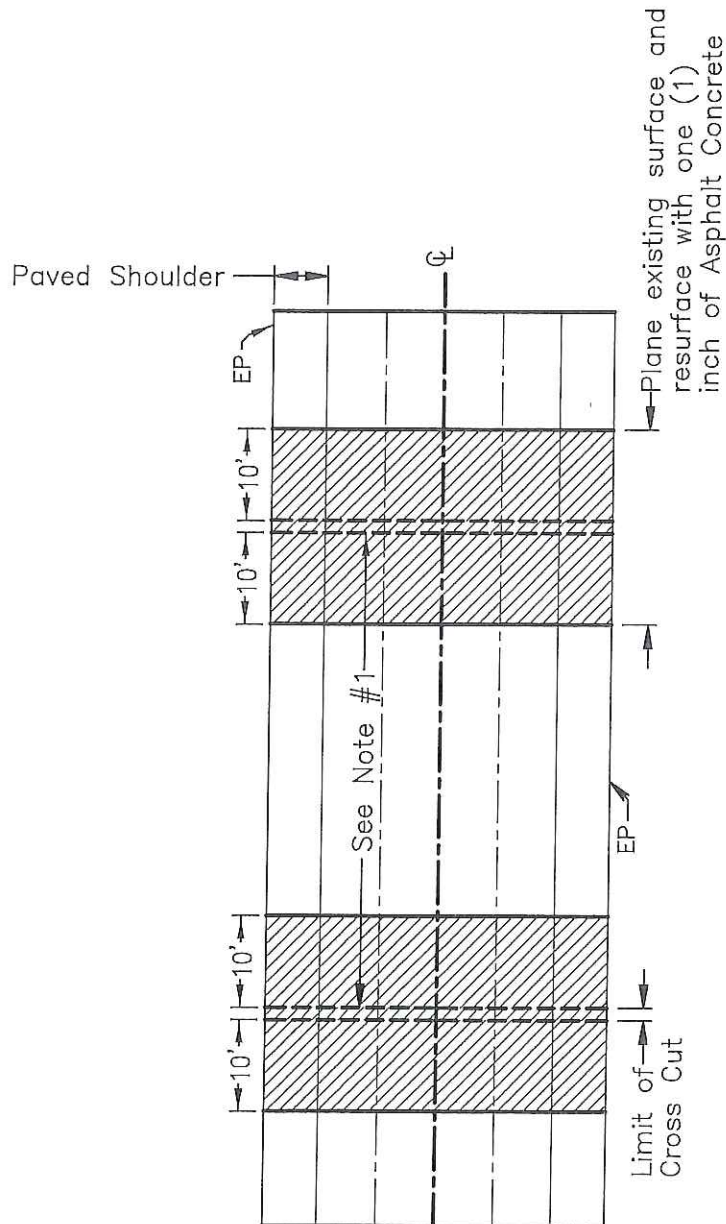
- A. An emergency that endangers life or property.
- B. For repair or modification to prevent interruption of essential utility service.
- C. For relocation work that is mandated by County, State or Federal law.
- D. For service for buildings where no other reasonable means of providing service exists.
- E. For potholing to verify utility depth or location.
- F. For trenchless excavations greater than three feet in depth of cover over the utility facility, and not requiring a significant surface incision greater than industry bore pit standards.

Exceptions must be requested and submitted in writing to the Department. Payment of a nonrefundable processing fee is also required. Exceptions will be reviewed using the Departments Action Approval process, which requires the recommendation of a Deputy Director.



**NOTES:**

1. If the distance between cross-cuts are less then 150' the entire area between corss-cuts shall be planed and resurfaced with one (1) inch of Asphalt Concrete.
2. The resurfacing requirements shall be in addition to County Standard Drawing No. R-29.
3. Resurfacing for Bell Holes shall meet these requirements. If excavation occurs within the shoulder or lane, only that area shall be resufaced as shown.
4. If cross-cutting is performed on Local Roads at intervals less then 150' a Seal Coat for that half of the roadway containing the trench can be used in lieu of resurfacing. Section 2-5.03B-2.



**TRENCH CUTTING POLICY  
CROSS CUTTING OF  
COUNTY ROADWAYS**

**COUNTY OF SAN JOAQUIN**  
DEPARTMENT OF PUBLIC WORKS

Date: DEC 2014

Approved by:

*Thomas M. Hall*

No.	Revision	Description	Date

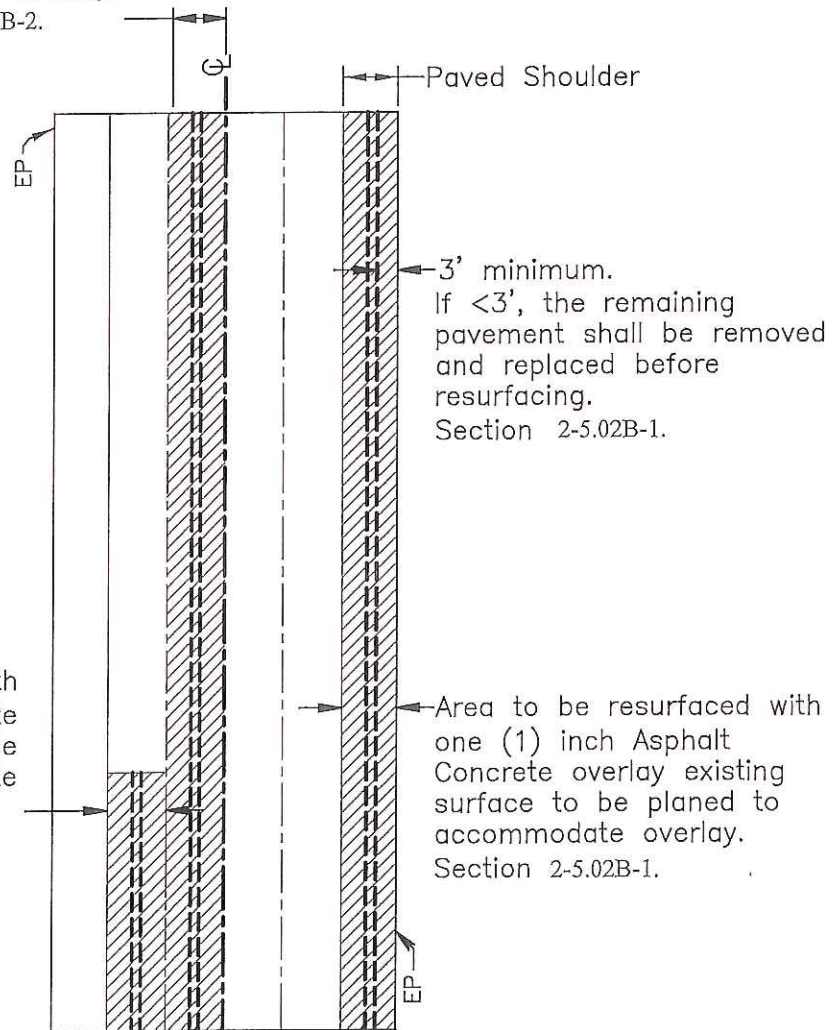
Std. Dwg. No.

**R-36**

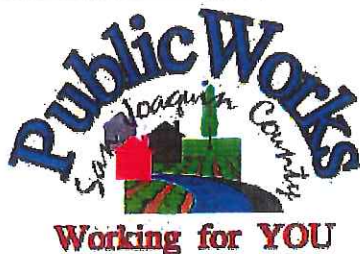
**NOTES:**

1. The resurfacing requirements shall be in addition to County Standard Drawing No. R-29.
2. If longitudinal cuts are required on a Local Road a Seal Coat can be used for that half of the roadway containing the trench. Section 2-5.03B-1.

Area to be resurfaced with one (1) inch Asphalt Concrete overlay existing surface to be planed, to accommodate overlay.  
Section 2-5.02B-2.



Area to be resurfaced with one (1) inch Asphalt Concrete overlay existing surface to be planed to accommodate overlay. Section 2-5.02B-2.



**TRENCH CUTTING POLICY  
LONGITUDINAL CUTTING  
OF COUNTY ROADWAYS**

**COUNTY OF SAN JOAQUIN**  
DEPARTMENT OF PUBLIC WORKS

Approved by:

*Thomas M. Hall*

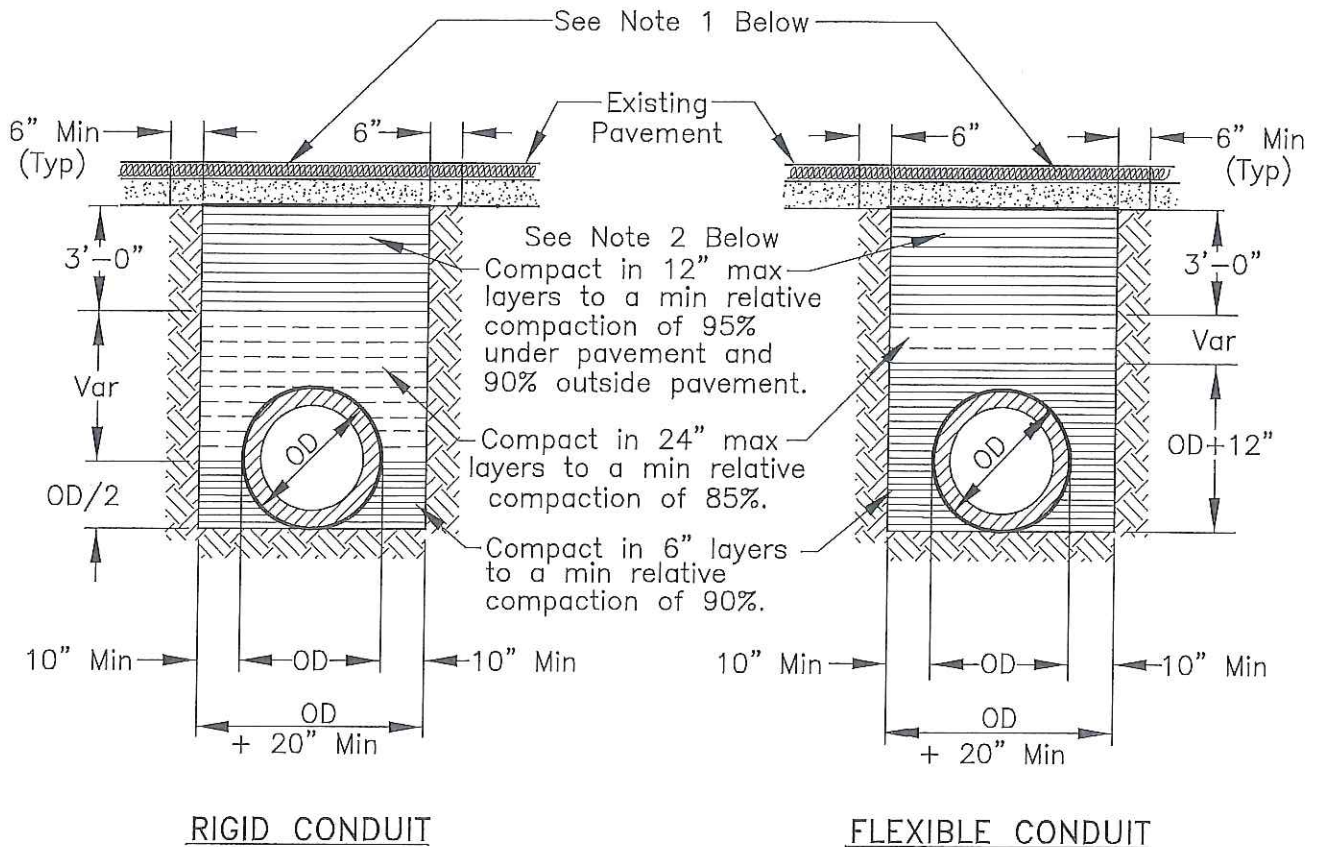
No.	Revision	Description	Date

Date: DEC 2014

Std. Dwg. No.

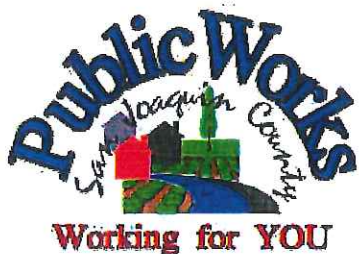
**R-37**





#### NOTES:

1. New pavement shall be 1" thicker than existing pavement, minimum of 0.25 Ft. New base shall be 1" thicker than existing base, min of 0.50 Ft.
2. Select native material or imported granular material as approved by the Director of Public Works. Backfill with materials equal to or better than the existing pavement and base in quality.
3. Relative compaction of materials shall be tested in accordance with the State of California, Dept. of Transportation Testing Manuals, test method No. California 216 or 231.
4. All existing pavement shall be neatly cut to line prior to trench excavation.
5. Jetting or ponding will be permitted within the street right-of-way with a 3 year bond, when approved by the Director of Public Works.
6. When shown by soil composition and compactability, ninety percent (90%) compaction may be used, when approved by the Director of Public Works.
7. Special bedding and backfill requirements may be shown on the plans or specified in the special provisions.



### TYPICAL TRENCH BACKFILL

COUNTY OF SAN JOAQUIN  
DEPARTMENT OF PUBLIC WORKS

Approved by:

*Thomas M. Hall*

No.	Revision	Description	Date

Std. Dwg. No.

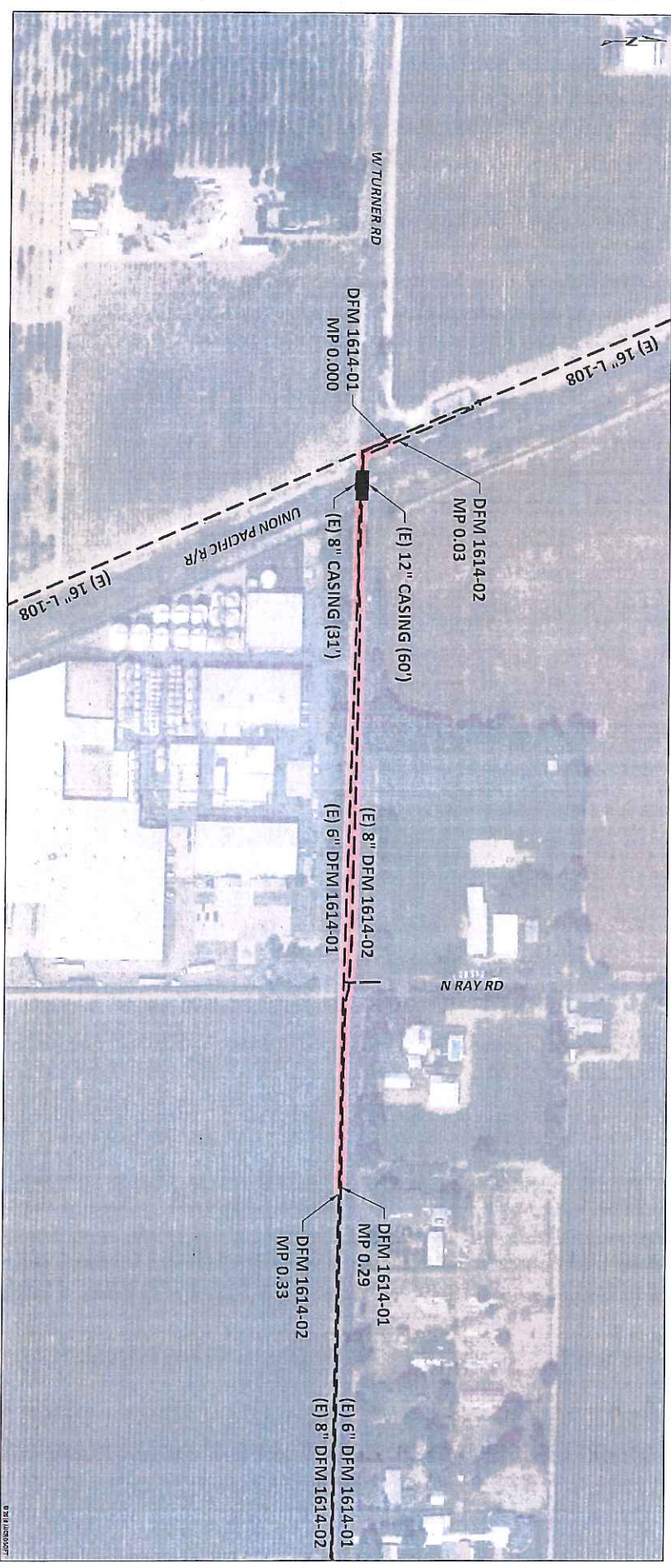
**R-29**

Date: DEC 2014









**ISSUED  
FOR  
PERMIT**



**SAFETY PICTOGRAM**  
I HAVE NO SAFETY PICTOGRAMS TO PLACE ON THIS PERMIT. IF I DO, I WILL PLACE THEM HERE TO LET YOU KNOW.



**Call before you dig.**



**GTS**  
Gas Transmission Systems, Inc.  
3700 Wilshire Blvd, Suite 200  
Beverly Hills, CA 90210  
Project No. 15048

NO.	DATE	DESCRIPTION	PIV/SPEC	DWG CHG	SUPV	APVD BY	APPROVED BY	DATE
B	09/07/18	ISSUED FOR PERMIT	BA006170	MG	ZAL	BTC	BA006170	09/07/18
A	08/28/18	ISSUED FOR REVIEW	BA006170	MG	ZAL	BTC	BA006170	08/28/18

**EC19-1614**  
SECTION 8  
DFM 1614-01 MP 0.00 - 0.29  
INDIRECT INSPECTION TOOL SURVEY  
SAN JOAQUIN COUNTY  
PACIFIC GAS AND ELECTRIC COMPANY  
SAN RAMON, CALIFORNIA

**EXHIBIT B**

1 2 3 4 5 6 7 8 9 10

0 1 2 3 4 5 6 7 8 9 10









**ISSUED  
FOR  
PERMIT**

**SAFETY PLACED**  
I advise you safety first.  
Before any work is done,  
call 811 to locate underground  
utilities. It is your responsibility  
to call 811 to get service.

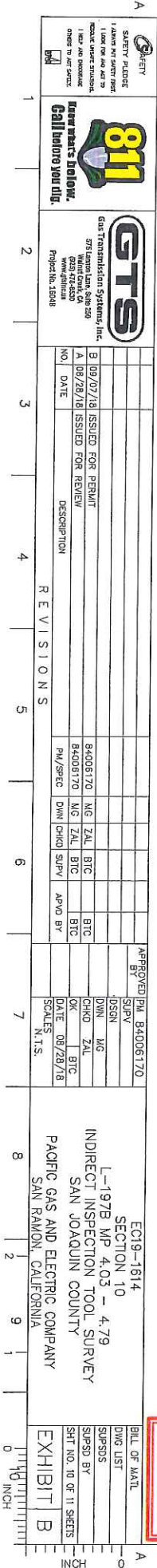
**811**  
New means better.  
Call before you dig.

**GTS**  
Gas Transmission Systems, Inc.  
575 Laurel Ave, Suite 200  
Westborough, MA 01581  
Project No. 1808

REVISIONS		DESCRIPTION		DATE		BY		APPROVED BY	
A	08/29/18	ISSUED FOR REVIEW	844006170	MG	ZAL	BTC		844006170	MG
B	08/29/18	ISSUED FOR PERMIT	844006170	MG	ZAL	BTC		844006170	MG
NO. DATE		DESCRIPTION		DATE		BY		APPROVED BY	
PM/SPIC		DWN CHKD		SUPV		APVD BY		N.T.S.	

EC19-1614  
SECTION 10  
L-197B MP 4.03 - 4.79  
INDIRECT INSPECTION TOOL SURVEY  
SAN JOAQUIN COUNTY  
PACIFIC GAS AND ELECTRIC COMPANY  
SAN RAMON, CALIFORNIA

BILL OF MATERIAL  
DWG LIST  
SUPSOS  
SHT NO. 10 OF 11 SHEETS  
EXHIBIT B





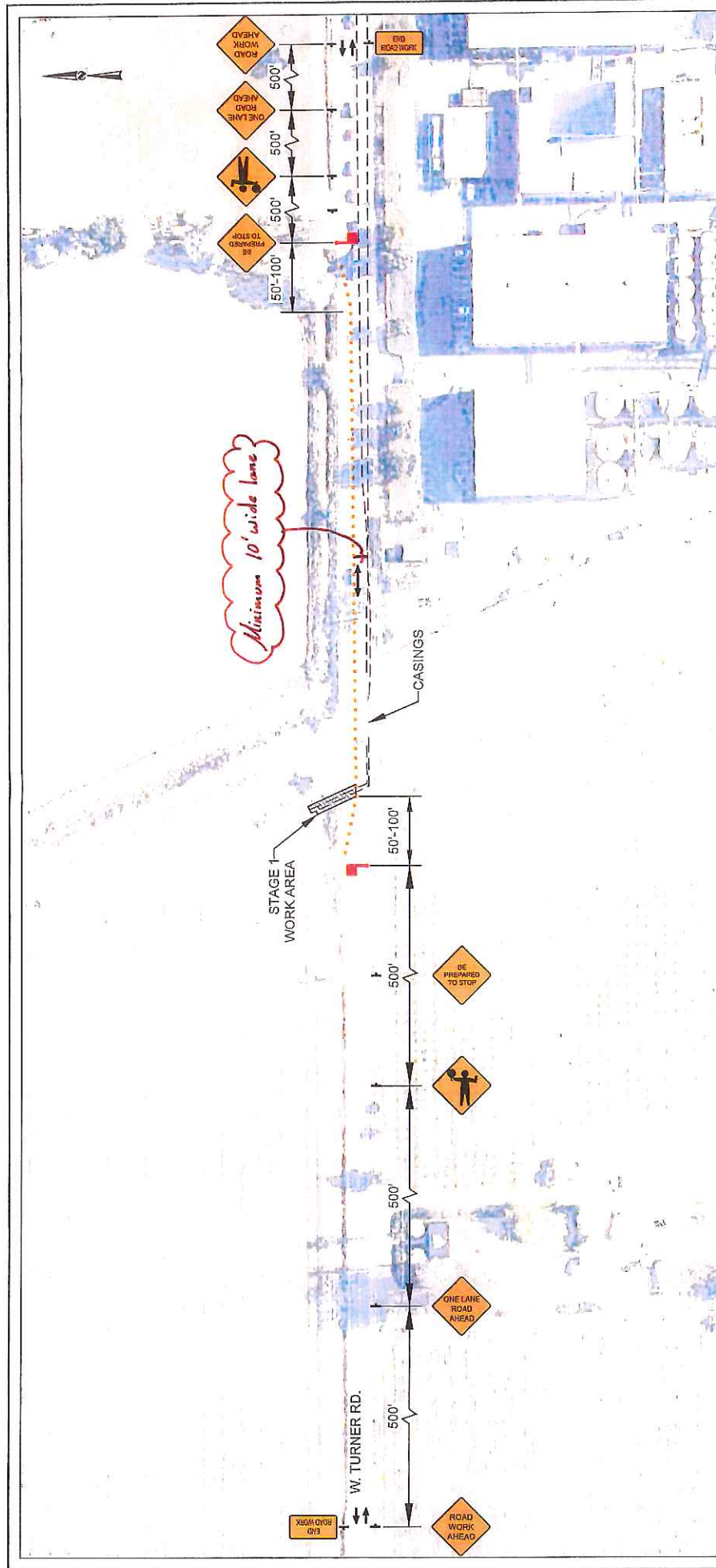








-All signs must meet MUTCD standards.



#### GENERAL NOTES:

1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND CALTRANS STANDARD PLANS AND SPECIFICATIONS.
  2. CALTRANS, THE LOCAL FIRE DEPARTMENT, SHERIFF/POLICE DEPARTMENT, CALIFORNIA HIGHWAY PATROL, LOCAL SCHOOL DISTRICT, TRANSIT SERVICE PROVIDERS AND UNITED STATES POSTAL SERVICE SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF CONSTRUCTION WORK.
  3. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS RESULTING FROM THE CONTRACTOR'S OPERATION. THIS REPAIR SHALL INCLUDE ALL CONSTRUCTION AND MATERIALS TO RESTORE THE SITE TO EXISTING CONDITIONS.
  4. EACH ADVANCED WARNING SIGN ON EACH SIDE OF THE ROADWAY SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS. FLASHING BEACONS SHALL BE PLACED AT THE LOCATION INDICATED FOR LANE CLOSURE DURING HOURS OF DARKNESS.
5. ALL WORKERS SHALL BE EQUIPPED WITH A REFLECTIVE VEST AND HARD HAT. ALL FLAGGERS SHALL ALSO BE EQUIPPED WITH A C28 "STOP/SLOW" PADDED AND SHALL BE TRAINED IN THE PROPER FUNDAMENTALS OF FLAGGING TRAFFIC.
6. NO PARKING SIGNS SHALL BE PLACED 72 HOURS PRIOR TO SET UP. SIGNS SHALL BE POSTED EVERY 20 LINEAR FEET OF OCCUPIED SPACE WITH AT LEAST ONE SIGN AT EACH END OF OCCUPIED SPACE.
7. ANY CONFLICTING SIGNS WILL BE COVERED FOR THE LENGTH OF THE JOB.
8. CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE AND DRIVEWAY ACCESS AT ALL TIMES.
9. CITY/COUNTY/STATE ENGINEER OR HIS REPRESENTATIVE HAS THE AUTHORITY TO INITIATE FIELD CHANGES TO ASSURE PUBLIC SAFETY.
10. CONTRACTOR SHALL PLATE EXCAVATED AREAS DURING NON-WORK HOURS.

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TABLE 1		TABLE 2				LEGEND	
SPEED (MPH)	MINIMUM TAPER LENGTH (FEET)	DISTANCE BETWEEN SIGNS (FEET)				ARROW PANEL	FLAGGER
		ROAD TYPE	A	B	C		
25	125	URBAN-25 MPH OR LESS	100	100	100	ARROW BOARD (SHOWN FACING DOWN)	FLAG TREE
30	150	URBAN-MORE THAN 25 MPH TO 40 MPH	250	250	250	DIRECTION OF TRAVEL	PORTABLE SIGN
35	245	URBAN-MORE THAN 40 MPH	350	350	350	TRAFFIC CONE / DELINEATOR	TYPE 2 OR 3 BARRICADE
40	320	RURAL	500	500	500	DIRECTION OF TEMPORARY TRAFFIC DETOUR	
45	340	EXPRESSWAY / FREEWAY	1,000	1,500	2,640	DETOUR ROUTES	
50	600						
55	660						

REVISIONS	NO.	DATE	DESCRIPTION
1			
2			
3			
4			
5			

DESIGNED	BY	DATE
CHECKED	BY	DATE
APPROVED	BY	DATE

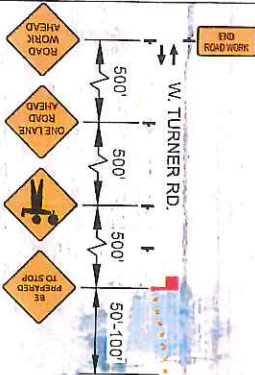
**Mearns Group, Inc.**  
4500 N. JESSIE ROAD, P.O. BOX 88  
FRESNO, CA 93722  
PHONE: (559) 435-2529  
FAX: (559) 435-2533

**811**  
Newman-Miller  
Call Center

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EC19-1614 - TRAFFIC CONTROL PLAN  
DFM 1614-01 MP 0.00-0.29 & 1614-02 MP 0.03-0.33  
SECTION 8  
LODI, CALIFORNIA

SCALE: 1" = 100'  
DATE: 10/29/2015  
SHEET: 511530043  
JOB NO.: 1614-01  
FILE NO.: 1614-01-001  
DRAWING NO.: 1614-01-001  
SHEET NO.: 1 OF 3



W. TURNER RD.

CASINGS

STAGE 2 WORK AREA

Minimum 10' wide lanes

MATCH LINE  
SEE SHEET EC19-1614 8(3)

TABLE 1

TABLE 2

LEGEND

MINIMUM TAPER LENGTH (FEET)	DISTANCE BETWEEN SIGNS (FEET)	SECTION PANEL	FLASHER
SPEED LIMIT	ROAD TYPE	ARROW BOARD	FLASHER
125	1/2	ROAD TYPE	FLASHER
150	1/3	ROAD TYPE	FLASHER
200	1/4	ROAD TYPE	FLASHER
250	1/5	ROAD TYPE	FLASHER
300	1/6	ROAD TYPE	FLASHER
350	1/7	ROAD TYPE	FLASHER
400	1/8	ROAD TYPE	FLASHER
450	1/9	ROAD TYPE	FLASHER
500	1/10	ROAD TYPE	FLASHER
550	1/11	ROAD TYPE	FLASHER
600	1/12	ROAD TYPE	FLASHER
650	1/13	ROAD TYPE	FLASHER
700	1/14	ROAD TYPE	FLASHER
750	1/15	ROAD TYPE	FLASHER
800	1/16	ROAD TYPE	FLASHER
850	1/17	ROAD TYPE	FLASHER
900	1/18	ROAD TYPE	FLASHER
950	1/19	ROAD TYPE	FLASHER
1000	1/20	ROAD TYPE	FLASHER

GENERAL NOTES:

1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF CALIFORNIA STANDARD OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND CALTRANS STANDARD PLANS AND SPECIFICATIONS.
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REVISIONS

NUMBER	DESCRIPTION	BY	DATE
1			
2			
3			
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10			

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811

Caltrans plans

DESIGNED

4/9

4/9

4/9

CREATED

2/1

2/1

2/1

APPROVED

2/1

2/1

2/1

MEARS GROUP, INC.

4000 N. JESSIE ROAD, SUITE 100

IRVINE, CA 92618

TEL: (949) 251-2525

FAX: (949) 251-2526

EC19-1614 - TRAFFIC CONTROL PLAN

SECTION B

LODI, CALIFORNIA

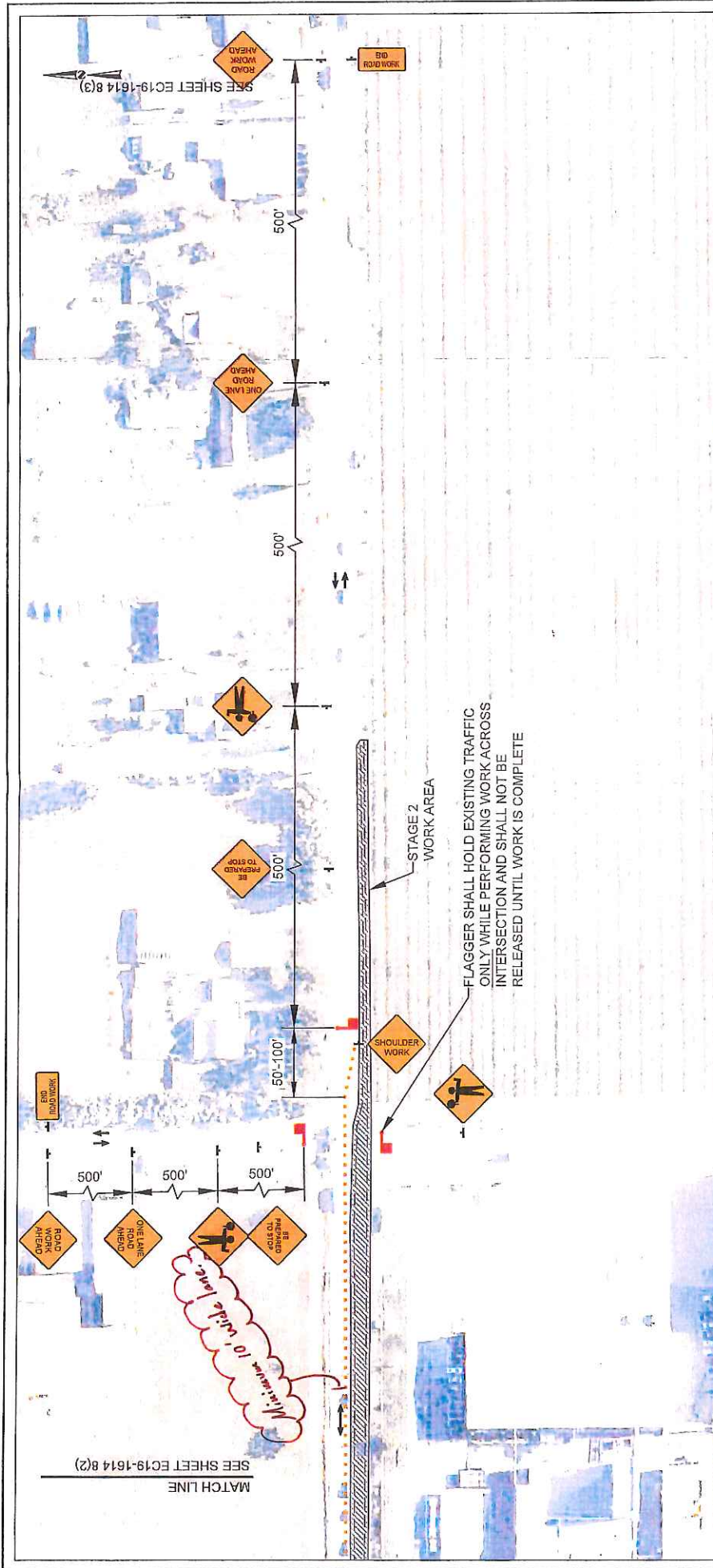
DATE: 1/1/2014

TIME: 10:00 AM

BY: J. B. BROWN

FOR: 3. BROWN


















**GENERAL NOTES:**

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TABLE 1		TABLE 2				LEGEND		
SPEED (MPH)	MINIMUM TAPER LENGTH (FEET)	MEETING SHIFTING SHOULDER L/2	DOWN L/2	DISTANCE BETWEEN SIGNS (FEET)			ARROW PANEL	FLAGGER 
				A	B	C		
25	125	63	42	50	100	100		FLAG TREE 
30	150	80	60	50	250	250		PORTABLE SIGN 
35	245	123	82	50	350	350		TYPE 2 OR 3 BASIC 
40	320	180	107	50	500	500		TRAFFIC CONE/ DELINEATOR 
45	540	270	160	50	1,000	1,500		DIRECTION OF TRAVEL 
50	600	300	200	50		2,640		DIRECTION OF TEMPORARY TRAFFIC DETOUR 
55	660	330	220	50				DETOUR ROUTES 

REVISIONS	NUMBER	DESCRIPTION	BY	DATE (P/D)
1				
2				
3				



**Mears Group, Inc.**  
 4200 N. JESSIE ROAD, P.O. BOX 80  
 FRESNO, CA 93721  
 PHONE: (559) 435-1830  
 FAX: (559) 435-5535

**EC19-1614 - TRAFFIC CONTROL PLAN**  
 DFM 1614-01 MP 0.00-0.29 & 1614-02 MP 0.03-0.33  
 SECTION 8  
 LODI, CALIFORNIA

SCALE: 1" = 100'  
 DATE: 09/20/2015  
 SHEET: 3 OF 3



All signs must meet MUTCD standards.

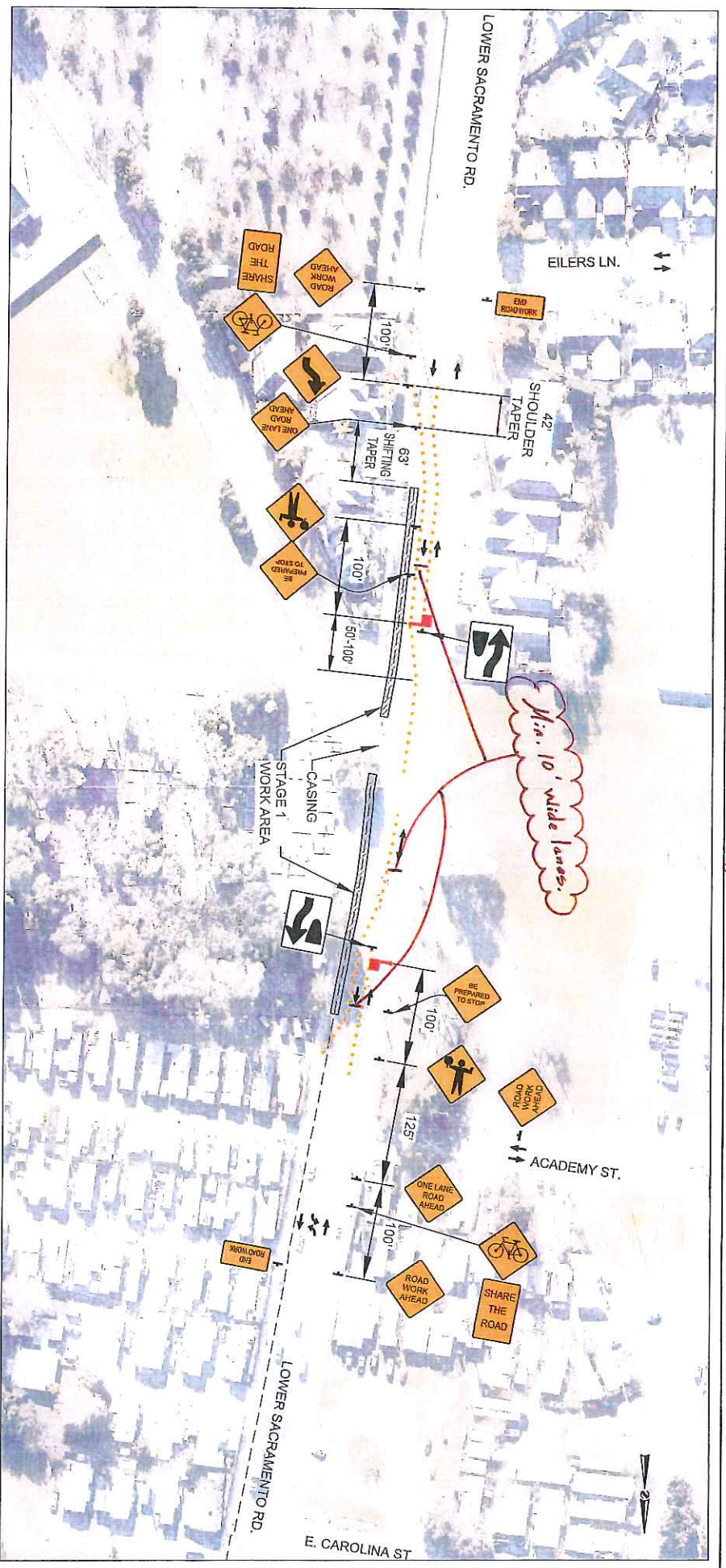


TABLE 1

TABLE 2

LEGEND

ROAD TYPE	MINIMUM TAPER LENGTH (FEET)	DISTANCE BETWEEN SIGNS (FEET)			ARROW PANEL	FLAGGER
		ROAD TYPE	A	B		
1	100	URBAN-25 MPH OR LESS	100	100	→	PORTABLE SIGN
2	125	URBAN-30 MPH OR LESS	125	125	→	TYPE 2 OR 3
3	150	URBAN-35 MPH OR LESS	150	150	→	BARBICIDE
4	175	URBAN-40 MPH OR LESS	175	175	→	
5	200	URBAN-45 MPH OR LESS	200	200	→	
6	225	URBAN-50 MPH OR LESS	225	225	→	
7	250	URBAN-55 MPH OR LESS	250	250	→	
8	275	URBAN-60 MPH OR LESS	275	275	→	
9	300	URBAN-65 MPH OR LESS	300	300	→	
10	325	URBAN-70 MPH OR LESS	325	325	→	
11	350	URBAN-75 MPH OR LESS	350	350	→	
12	375	URBAN-80 MPH OR LESS	375	375	→	
13	400	URBAN-85 MPH OR LESS	400	400	→	
14	425	URBAN-90 MPH OR LESS	425	425	→	
15	450	URBAN-95 MPH OR LESS	450	450	→	
16	475	URBAN-100 MPH OR LESS	475	475	→	
17	500	URBAN-105 MPH OR LESS	500	500	→	
18	525	URBAN-110 MPH OR LESS	525	525	→	
19	550	URBAN-115 MPH OR LESS	550	550	→	
20	575	URBAN-120 MPH OR LESS	575	575	→	
21	600	URBAN-125 MPH OR LESS	600	600	→	
22	625	URBAN-130 MPH OR LESS	625	625	→	
23	650	URBAN-135 MPH OR LESS	650	650	→	
24	675	URBAN-140 MPH OR LESS	675	675	→	
25	700	URBAN-145 MPH OR LESS	700	700	→	
26	725	URBAN-150 MPH OR LESS	725	725	→	
27	750	URBAN-155 MPH OR LESS	750	750	→	
28	775	URBAN-160 MPH OR LESS	775	775	→	
29	800	URBAN-165 MPH OR LESS	800	800	→	
30	825	URBAN-170 MPH OR LESS	825	825	→	
31	850	URBAN-175 MPH OR LESS	850	850	→	
32	875	URBAN-180 MPH OR LESS	875	875	→	
33	900	URBAN-185 MPH OR LESS	900	900	→	
34	925	URBAN-190 MPH OR LESS	925	925	→	
35	950	URBAN-195 MPH OR LESS	950	950	→	
36	975	URBAN-200 MPH OR LESS	975	975	→	
37	1000	URBAN-205 MPH OR LESS	1000	1000	→	
38	1025	URBAN-210 MPH OR LESS	1025	1025	→	
39	1050	URBAN-215 MPH OR LESS	1050	1050	→	
40	1075	URBAN-220 MPH OR LESS	1075	1075	→	
41	1100	URBAN-225 MPH OR LESS	1100	1100	→	
42	1125	URBAN-230 MPH OR LESS	1125	1125	→	
43	1150	URBAN-235 MPH OR LESS	1150	1150	→	
44	1175	URBAN-240 MPH OR LESS	1175	1175	→	
45	1200	URBAN-245 MPH OR LESS	1200	1200	→	
46	1225	URBAN-250 MPH OR LESS	1225	1225	→	
47	1250	URBAN-255 MPH OR LESS	1250	1250	→	
48	1275	URBAN-260 MPH OR LESS	1275	1275	→	
49	1300	URBAN-265 MPH OR LESS	1300	1300	→	
50	1325	URBAN-270 MPH OR LESS	1325	1325	→	
51	1350	URBAN-275 MPH OR LESS	1350	1350	→	
52	1375	URBAN-280 MPH OR LESS	1375	1375	→	
53	1400	URBAN-285 MPH OR LESS	1400	1400	→	
54	1425	URBAN-290 MPH OR LESS	1425	1425	→	
55	1450	URBAN-295 MPH OR LESS	1450	1450	→	
56	1475	URBAN-300 MPH OR LESS	1475	1475	→	
57	1500	URBAN-305 MPH OR LESS	1500	1500	→	
58	1525	URBAN-310 MPH OR LESS	1525	1525	→	
59	1550	URBAN-315 MPH OR LESS	1550	1550	→	
60	1575	URBAN-320 MPH OR LESS	1575	1575	→	
61	1600	URBAN-325 MPH OR LESS	1600	1600	→	
62	1625	URBAN-330 MPH OR LESS	1625	1625	→	
63	1650	URBAN-335 MPH OR LESS	1650	1650	→	
64	1675	URBAN-340 MPH OR LESS	1675	1675	→	
65	1700	URBAN-345 MPH OR LESS	1700	1700	→	
66	1725	URBAN-350 MPH OR LESS	1725	1725	→	
67	1750	URBAN-355 MPH OR LESS	1750	1750	→	
68	1775	URBAN-360 MPH OR LESS	1775	1775	→	
69	1800	URBAN-365 MPH OR LESS	1800	1800	→	
70	1825	URBAN-370 MPH OR LESS	1825	1825	→	
71	1850	URBAN-375 MPH OR LESS	1850	1850	→	
72	1875	URBAN-380 MPH OR LESS	1875	1875	→	
73	1900	URBAN-385 MPH OR LESS	1900	1900	→	
74	1925	URBAN-390 MPH OR LESS	1925	1925	→	
75	1950	URBAN-395 MPH OR LESS	1950	1950	→	
76	1975	URBAN-400 MPH OR LESS	1975	1975	→	
77	2000	URBAN-405 MPH OR LESS	2000	2000	→	
78	2025	URBAN-410 MPH OR LESS	2025	2025	→	
79	2050	URBAN-415 MPH OR LESS	2050	2050	→	
80	2075	URBAN-420 MPH OR LESS	2075	2075	→	
81	2100	URBAN-425 MPH OR LESS	2100	2100	→	
82	2125	URBAN-430 MPH OR LESS	2125	2125	→	
83	2150	URBAN-435 MPH OR LESS	2150	2150	→	
84	2175	URBAN-440 MPH OR LESS	2175	2175	→	
85	2200	URBAN-445 MPH OR LESS	2200	2200	→	
86	2225	URBAN-450 MPH OR LESS	2225	2225	→	
87	2250	URBAN-455 MPH OR LESS	2250	2250	→	
88	2275	URBAN-460 MPH OR LESS	2275	2275	→	
89	2300	URBAN-465 MPH OR LESS	2300	2300	→	
90	2325	URBAN-470 MPH OR LESS	2325	2325	→	
91	2350	URBAN-475 MPH OR LESS	2350	2350	→	
92	2375	URBAN-480 MPH OR LESS	2375	2375	→	
93	2400	URBAN-485 MPH OR LESS	2400	2400	→	
94	2425	URBAN-490 MPH OR LESS	2425	2425	→	
95	2450	URBAN-495 MPH OR LESS	2450	2450	→	
96	2475	URBAN-500 MPH OR LESS	2475	2475	→	
97	2500	URBAN-505 MPH OR LESS	2500	2500	→	
98	2525	URBAN-510 MPH OR LESS	2525	2525	→	
99	2550	URBAN-515 MPH OR LESS	2550	2550	→	
100	2575	URBAN-520 MPH OR LESS	2575	2575	→	
101	2600	URBAN-525 MPH OR LESS	2600	2600	→	
102	2625	URBAN-530 MPH OR LESS	2625	2625	→	
103	2650	URBAN-535 MPH OR LESS	2650	2650	→	
104	2675	URBAN-540 MPH OR LESS	2675	2675	→	
105	2700	URBAN-545 MPH OR LESS	2700	2700	→	
106	2725	URBAN-550 MPH OR LESS	2725	2725	→	
107	2750	URBAN-555 MPH OR LESS	2750	2750	→	
108	2775	URBAN-560 MPH OR LESS	2775	2775	→	
109	2800	URBAN-565 MPH OR LESS	2800	2800	→	
110	2825	URBAN-570 MPH OR LESS	2825	2825	→	
111	2850	URBAN-575 MPH OR LESS	2850	2850	→	
112	2875	URBAN-580 MPH OR LESS	2875	2875	→	
113	2900	URBAN-585 MPH OR LESS	2900	2900	→	
114	2925	URBAN-590 MPH OR LESS	2925	2925	→	
115	2950	URBAN-595 MPH OR LESS	2950	2950	→	
116	2975	URBAN-600 MPH OR LESS	2975	2975	→	
117	3000	URBAN-605 MPH OR LESS	3000	3000	→	
118	3025	URBAN-610 MPH OR LESS	3025	3025	→	
119	3050	URBAN-615 MPH OR LESS	3050	3050	→	
120	3075	URBAN-620 MPH OR LESS	3075	3075	→	
121	3100	URBAN-625 MPH OR LESS	3100	3100	→	
122	3125	URBAN-630 MPH OR LESS	3125	3125	→	
123	3150	URBAN-635 MPH OR LESS	3150	3150	→	
124	3175	URBAN-640 MPH OR LESS	3175	3175	→	
125	3200	URBAN-645 MPH OR LESS	3200	3200	→	
126	3225	URBAN-650 MPH OR LESS	3225	3225	→	
127	3250	URBAN-655 MPH OR LESS	3250	3250	→	
128	3275	URBAN-660 MPH OR LESS	3275	3275	→	
129	3300	URBAN-665 MPH OR LESS	3300	3300	→	
130	3325	URBAN-670 MPH OR LESS	3325	3325	→	
131	3350	URBAN-675 MPH OR LESS	3350	3350	→	
132	3375	URBAN-680 MPH OR LESS	3375	3375	→	
133	3400	URBAN-685 MPH OR LESS	3400	3400	→	
134	3425	URBAN-690 MPH OR LESS	3425	3425	→	
135	3450	URBAN-695 MPH OR LESS	3450	3450	→	
136	3475	URBAN-700 MPH OR LESS	3475	3475	→	
137	3500	URBAN-705 MPH OR LESS	3500	3500	→	
138	3525	URBAN-710 MPH OR LESS	3525	3525	→	
139	3550	URBAN-715 MPH OR LESS	3550	3550	→	
140	3575	URBAN-720 MPH OR LESS	3575	3575	→	
141	3600	URBAN-725 MPH OR LESS	3600	3600	→	
142	3625	URBAN-730 MPH OR LESS	3625	3625	→	
143	3650	URBAN-735 MPH OR LESS	3650	3650	→	
144	3675	URBAN-740 MPH OR LESS	3675	3675	→	
145	3700	URBAN-745 MPH OR LESS	3700	3700	→	
146	3725	URBAN-750 MPH OR LESS	3725	3725	→	
147	3750	URBAN-755 MPH OR LESS	3750	3750	→	
148	3775	URBAN-760 MPH OR LESS	3775	3775	→	
149	3800	URBAN-765 MPH OR LESS	3800	3800	→	
150	3825	URBAN-770 MPH OR LESS	3825	3825	→	
151	3850	URBAN-775 MPH OR LESS	3850	3850	→	
152	3875	URBAN-780 MPH OR LESS	3875	3875	→	
153	3900	URBAN-785 MPH OR LESS	3900	3900	→	
154	3925	URBAN-790 MPH OR LESS	3925	3925	→	
155	3950	URBAN-795 MPH OR LESS	3950	3950	→	
156	3975	URBAN-800 MPH OR LESS	3975	3975	→	
157	4000	URBAN-805 MPH OR LESS	4000	4000	→	
158	4025	URBAN-810 MPH OR LESS	4025	4025	→	
159	4050	URBAN-815 MPH OR LESS	4050	4050	→	
160	4075	URBAN-820 MPH OR LESS	4075	4075	→	
161	4100	URBAN-825 MPH OR LESS	4100	4100	→	
162	4125	URBAN-830 MPH OR LESS	4125	4125	→	
163	4150	URBAN-835 MPH OR LESS	4150	4150	→	
164	4175	URBAN-840 MPH OR LESS	4175	4175	→	
165	4200	URBAN-845 MPH OR LESS	4200	4200	→	
166	4225	URBAN-850 MPH OR LESS	4225	4225	→	
167	4250	URBAN-855 MPH OR LESS	4250	4250	→	
168	4275	URBAN-860 MPH OR LESS	4275	4275	→	
169	4300	URBAN-865 MPH OR LESS	4300	4300	→	
170	4325	URBAN-870 MPH OR LESS	4325	4325	→	
171	4350	URBAN-875 MPH OR LESS	4350	4350	→	
172	4375	URBAN-880 MPH OR LESS	4375	4375	→	
173	4400	URBAN-885 MPH OR LESS	4400	4400	→	
174	4425	URBAN-890 MPH OR LESS	4425	4425	→	
175	4450	URBAN-895 MPH OR LESS	4450	4450	→	
176	4475	URBAN-900 MPH OR LESS	4475	4475	→	
177	4500	URBAN-905 MPH OR LESS	4500	4500	→	
178	4525	URBAN-910 MPH OR LESS	4525	4525	→	
179	4550	URBAN-915 MPH OR LESS	4550	4550	→	
180	4575	URBAN-920 MPH OR LESS	4575	4575	→	
181	4600	URBAN-925 MPH OR LESS	4600	4600	→	
182	4625	URBAN-930 MPH OR LESS	4625	4625	→	
183	4650	URBAN-935 MPH OR LESS	4650	4650	→	
184	4675	URBAN-940 MPH OR LESS	4675	4675	→	
185	4700	URBAN-945 MPH OR LESS	4700	4700	→	
186	4725	URBAN-950 MPH OR LESS	4725	4725	→	
187	4750	URBAN-955 MPH OR LESS	4750	4750	→	
188	4775	URBAN-960 MPH OR LESS	4775	4775	→	
189	4800	URBAN-965 MPH OR LESS	4800	4800	→	
190	4825	URBAN-970 MPH OR LESS	4825	4825	→	
191	4850	URBAN-975 MPH OR LESS	4850	4850	→	
192	4875	URBAN-980 MPH OR LESS	4875	4875	→	
193	4900	URBAN-985 MPH OR LESS	4900	4900	→	
194	4925	URBAN-990 MPH OR LESS	4925	4925	→	
195	4950	URBAN-995 MPH OR LESS	4950	4950	→	
196	4975	URBAN-1000 MPH OR LESS	4975	4975	→	
197	5000	URBAN-1005 MPH OR LESS	5000	5000	→	
198	5025	URBAN-1010 MPH OR LESS	5025	5025	→	
199	5050	URBAN-101				

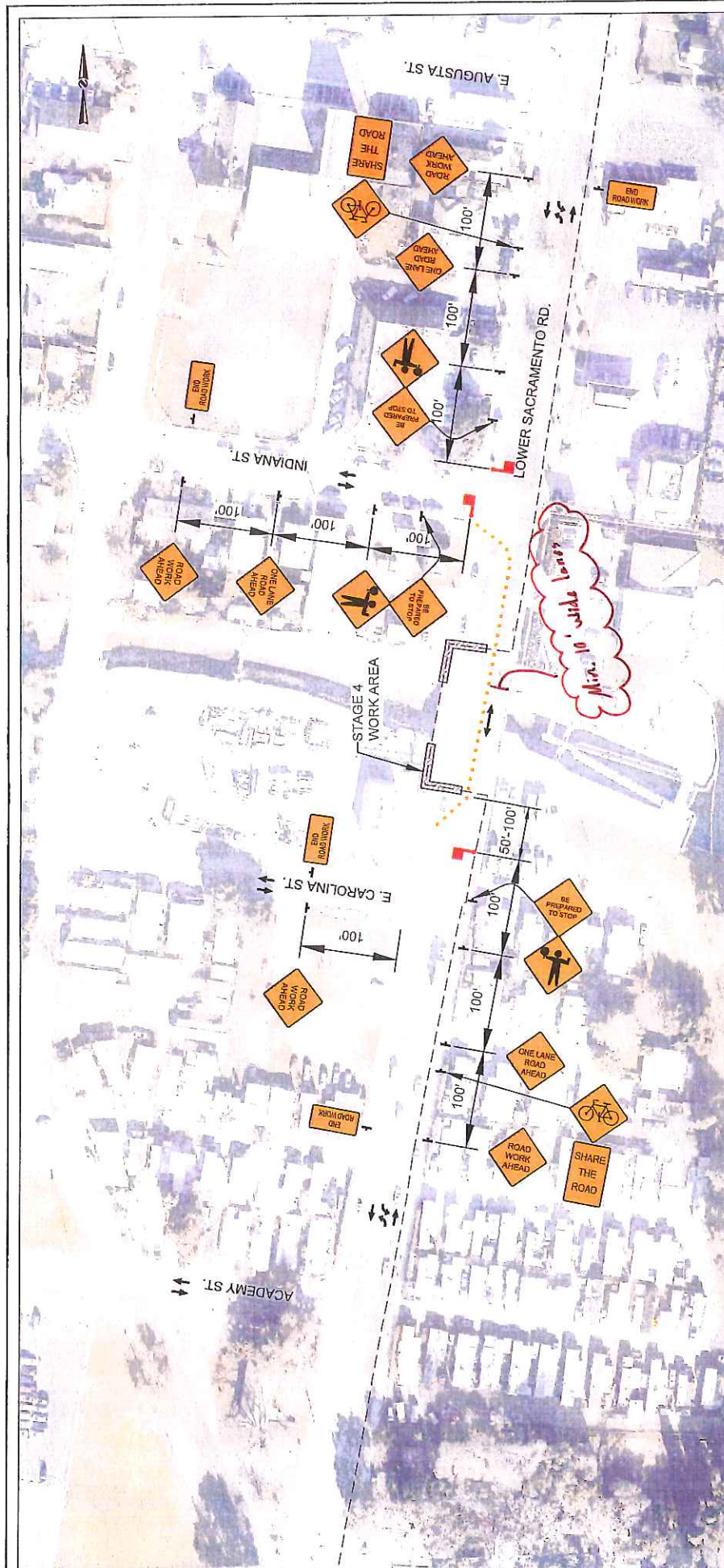












- GENERAL NOTES:**
- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND CALIFORNIA STANDARD PLANS AND SPECIFICATIONS.
  - CALTRANS, THE LOCAL FIRE DEPARTMENT, SHERIFF/POLICE DEPARTMENT, CALIFORNIA HIGHWAY PATROL, LOCAL SCHOOL DISTRICT, TRANSIT SERVICE PROVIDERS AND UNITED STATES POSTAL SERVICE SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF CONSTRUCTION WORK.
  - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS RESULTING FROM THE CONTRACTOR'S OPERATION. THIS REPAIR SHALL INCLUDE ALL CONSTRUCTION AND MATERIALS TO RESTORE THE SITE TO EXISTING CONDITIONS.
  - EACH ADVANCED WARNING SIGN ON EACH SIDE OF THE ROADWAY SHALL BE EQUIPPED WITH AT LEAST TWO FLASHERS. FLASHING BEACONS SHALL BE PLACED AT THE LOCATION INDICATED FOR LANE CLOSURE DURING HOURS OF DARKNESS.
5. ALL WORKERS SHALL BE EQUIPPED WITH A REFLECTIVE VEST AND HARD HAT. ALL FLAGGERS SHALL ALSO BE EQUIPPED WITH A C28 "STOP/SLOW" PADDLE AND SHALL BE TRAINED IN THE PROPER FUNDAMENTALS OF FLAGGING TRAFFIC.
6. NO PARKING SIGNS SHALL BE PLACED 72 HOURS PRIOR TO SET UP. SIGNS SHALL BE POSTED EVERY 20 LINEAR FEET OF OCCUPIED SPACE WITH AT LEAST ONE SIGN AT EACH END OF OCCUPIED SPACE.
7. ANY CONFLICTING SIGNS WILL BE COVERED FOR THE LENGTH OF THE JOB.
8. CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE AND DRIVEWAY ACCESS AT ALL TIMES.
9. CITY/COUNTY/STATE ENGINEER OR HIS REPRESENTATIVE HAS THE AUTHORITY TO INITIATE FIELD CHANGES TO ASSURE PUBLIC SAFETY.
10. CONTRACTOR SHALL PLATE EXCAVATED AREAS DURING NON-WORK HOURS.

TABLE 1

SPEED (MPH)	MINIMUM TAPER LENGTH (FEET)	DISTANCE BETWEEN SIGNS (FEET)			
		A	B	C	D
25	125	63	42	100	100
30	150	90	60	250	250
35	245	125	82	350	350
40	320	160	107	500	500
45	540	270	180	1,000	1,500
50	820	300	200	1,500	2,500
55	660	330	220	50	50

TABLE 2

ROAD TYPE	DISTANCE BETWEEN SIGNS (FEET)			
	A	B	C	D
URBAN-25 MPH OR LESS	100	100	100	100
URBAN-MORE THAN 25 MPH TO 40 MPH	250	250	250	250
URBAN-MORE THAN 40 MPH TO 50 MPH	350	350	350	350
RURAL	500	500	500	500
EXPRESSWAY / FREEWAY	1,000	1,500	2,500	2,500

LEGEND	
ARROW PANEL	FLAGGER
ARROW BOARD	FLAG TREE
(DOWN TACKING DOWN)	PORTABLE SIGN
DIRECTION OF TRAVEL	TYPE 2 OR 3
TRAFFIC CONE / DEMARATOR	BARREL
DIRECTION OF TEMPORARY TRAFFIC DETOUR	
DETOUR ROUTES	

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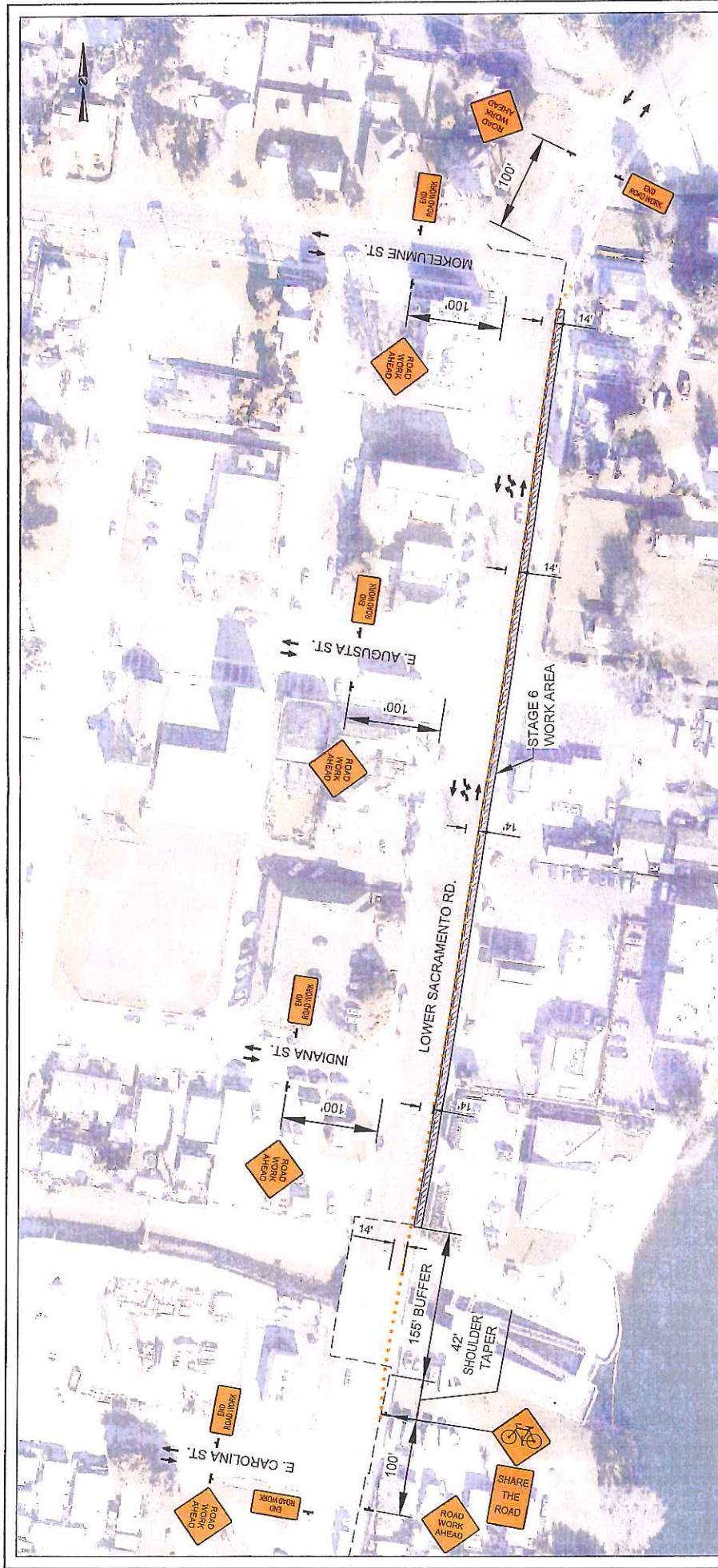
EC-19-1614 - TRAFFIC CONTROL PLAN  
 DFM 1614-04, MP 0.00-0.48  
 SECTION 9  
 LODI, CALIFORNIA

SCALE: 1" = 100' DATE: 10/03/2018  
 JOB NUMBER: 8111830243  
 FILE NAME: EC-19-1614 - 04.dwg  
 DWG. NO.: EC-19-1614-SECTION 9.DWG  
 SHEET: 9 OF 9









**GENERAL NOTES:**

- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND CALTRANS STANDARD PLANS AND SPECIFICATIONS.
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- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS RESULTING FROM THE CONTRACTOR'S OPERATION. THIS REPAIR SHALL INCLUDE ALL CONSTRUCTION AND MATERIALS TO RESTORE THE SITE TO EXISTING CONDITIONS.
- THIS REPAIR SHALL INCLUDE ALL CONSTRUCTION AND MATERIALS TO RESTORE EACH ADVANCED WARNING SIGN ON EACH SIDE OF THE ROADWAY SHALL BE EQUIPPED WITH AT LEAST TWO FLAGS. FLASHING BEACONS SHALL BE PLACED AT THE LOCATION INDICATED FOR LANE CLOSURE DURING HOURS OF DARKNESS.

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- ALL FLAGGERS SHALL ALSO BE EQUIPPED WITH A C28 "STOP/SLOW" PADDLE AND SHALL BE TRAINED IN THE PROPER FUNDAMENTALS OF FLAGGING TRAFFIC.
- NO PARKING SIGNS SHALL BE PLACED 72 HOURS PRIOR TO SET UP. SIGNS SHALL BE POSTED EVERY 20 LINEAR FEET OF OCCUPIED SPACE WITH AT LEAST ONE SIGN AT EACH END OF OCCUPIED SPACE.
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- ALL TIMES.
- CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE AND DRIVEWAY ACCESS AT ALL TIMES.
- CITY/COUNTY/STATE ENGINEER OR HIS REPRESENTATIVE HAS THE AUTHORITY TO INITIATE FIELD CHANGES TO ASSURE PUBLIC SAFETY.
- CONTRACTOR SHALL PLATE EXCAVATED AREAS DURING NON-WORK HOURS.

**TABLE 1**

SPEED (MPH)	MINIMUM TAPER LENGTH (FEET)		ROAD TYPE	DISTANCE BETWEEN SIGNS (FEET)		
	MINIMUM	SHOULDER		A	B	C
20	125	63	URBAN-25 MPH OR LESS	100	100	100
30	180	90	URBAN-MORE THAN 25 MPH TO 40 MPH	250	250	250
35	245	123	URBAN-MORE THAN 40 MPH TO 45 MPH	350	350	350
40	320	160	RURAL	500	500	500
45	540	270	EXPRESSWAY / FREEWAY	1,000	1,500	2,640
50	800	300				
55	880	330				

**TABLE 2**

LEGEND	
ARROW PANEL	FLAGGER
ARROW BOARD (SHOW FACING DOWN)	FLAG TREE
DIRECTION OF TRAVEL	PORTABLE SIGN
TRAFFIC CONE / DELIMITER	TYPE 2 OR 3 BARRICADE
DIRECTION OF TEMPORARY TRAFFIC BEHAVIOR	
DETOUR ROUTES	

**REVISIONS**

NO.	DATE	BY	DESCRIPTION
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2			
3			

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**EC19-1614 - TRAFFIC CONTROL PLAN**  
DPM 1614-04, MP 0.00-0.48  
SECTION 9  
LODI, CALIFORNIA

SCALE: 1" = 100'  
DATE: 10/20/2018  
JOB NUMBER: 8111000043  
FILE NAME: EC19-1614-04-09  
DWG. NO.: EC19-1614-SECTION 9 OF 8, SHEET 9



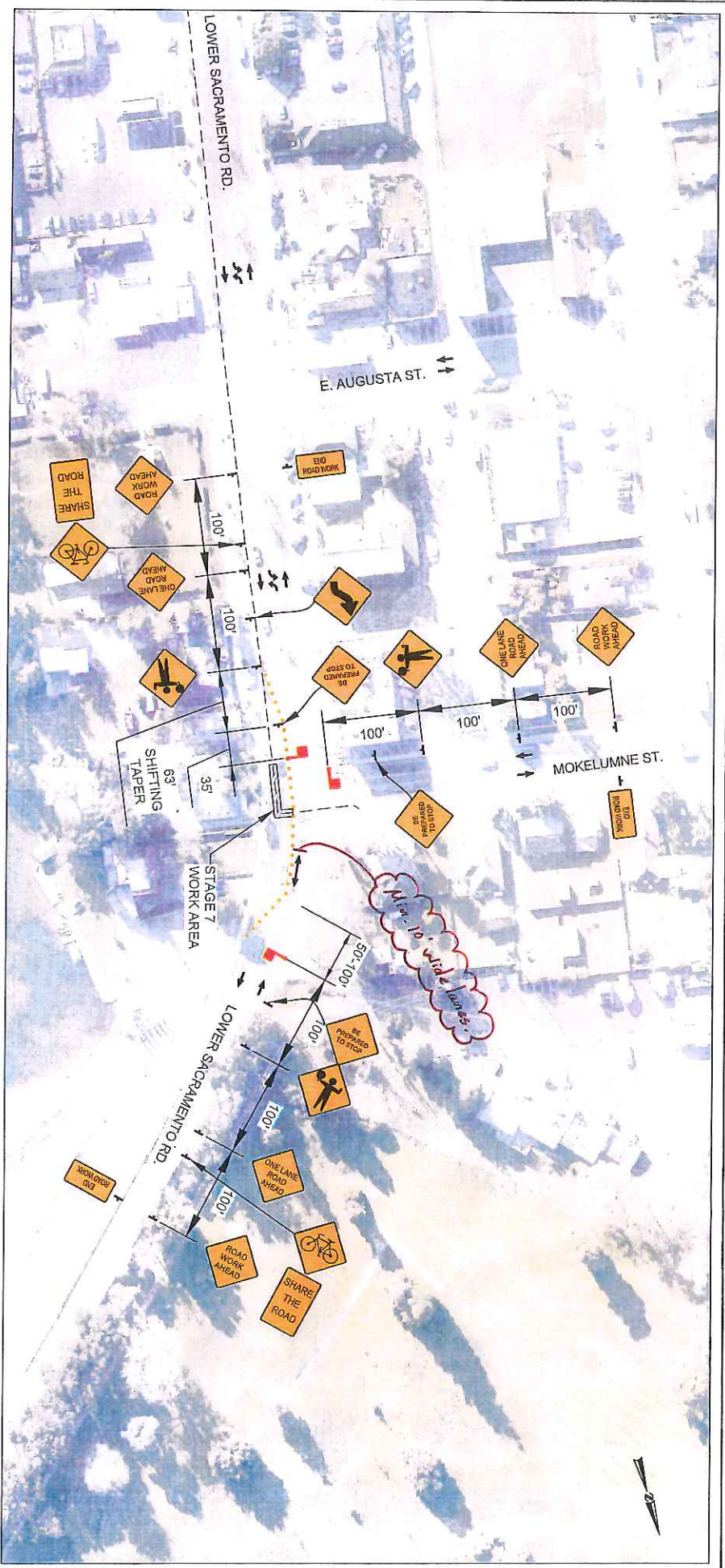


TABLE 1

TABLE 2

LEGEND

MINIMUM TAPER LENGTH (FEET)	DISTANCE BETWEEN SIGNS (FEET)	ARROW PANEL	FLAGGER
URBAN-25 MPH OR LESS	100	100	100
URBAN-35 MPH OR LESS	150	150	150
URBAN-45 MPH OR LESS	200	200	200
URBAN-55 MPH OR LESS	250	250	250
URBAN-65 MPH OR LESS	300	300	300
URBAN-75 MPH OR LESS	350	350	350
URBAN-85 MPH OR LESS	400	400	400
URBAN-95 MPH OR LESS	450	450	450
URBAN-105 MPH OR LESS	500	500	500
URBAN-115 MPH OR LESS	550	550	550
URBAN-125 MPH OR LESS	600	600	600
URBAN-135 MPH OR LESS	650	650	650
URBAN-145 MPH OR LESS	700	700	700
URBAN-155 MPH OR LESS	750	750	750
URBAN-165 MPH OR LESS	800	800	800
URBAN-175 MPH OR LESS	850	850	850
URBAN-185 MPH OR LESS	900	900	900
URBAN-195 MPH OR LESS	950	950	950
URBAN-205 MPH OR LESS	1000	1000	1000
URBAN-215 MPH OR LESS	1050	1050	1050
URBAN-225 MPH OR LESS	1100	1100	1100
URBAN-235 MPH OR LESS	1150	1150	1150
URBAN-245 MPH OR LESS	1200	1200	1200
URBAN-255 MPH OR LESS	1250	1250	1250
URBAN-265 MPH OR LESS	1300	1300	1300
URBAN-275 MPH OR LESS	1350	1350	1350
URBAN-285 MPH OR LESS	1400	1400	1400
URBAN-295 MPH OR LESS	1450	1450	1450
URBAN-305 MPH OR LESS	1500	1500	1500
URBAN-315 MPH OR LESS	1550	1550	1550
URBAN-325 MPH OR LESS	1600	1600	1600
URBAN-335 MPH OR LESS	1650	1650	1650
URBAN-345 MPH OR LESS	1700	1700	1700
URBAN-355 MPH OR LESS	1750	1750	1750
URBAN-365 MPH OR LESS	1800	1800	1800
URBAN-375 MPH OR LESS	1850	1850	1850
URBAN-385 MPH OR LESS	1900	1900	1900
URBAN-395 MPH OR LESS	1950	1950	1950
URBAN-405 MPH OR LESS	2000	2000	2000
URBAN-415 MPH OR LESS	2050	2050	2050
URBAN-425 MPH OR LESS	2100	2100	2100
URBAN-435 MPH OR LESS	2150	2150	2150
URBAN-445 MPH OR LESS	2200	2200	2200
URBAN-455 MPH OR LESS	2250	2250	2250
URBAN-465 MPH OR LESS	2300	2300	2300
URBAN-475 MPH OR LESS	2350	2350	2350
URBAN-485 MPH OR LESS	2400	2400	2400
URBAN-495 MPH OR LESS	2450	2450	2450
URBAN-505 MPH OR LESS	2500	2500	2500
URBAN-515 MPH OR LESS	2550	2550	2550
URBAN-525 MPH OR LESS	2600	2600	2600
URBAN-535 MPH OR LESS	2650	2650	2650
URBAN-545 MPH OR LESS	2700	2700	2700
URBAN-555 MPH OR LESS	2750	2750	2750
URBAN-565 MPH OR LESS	2800	2800	2800
URBAN-575 MPH OR LESS	2850	2850	2850
URBAN-585 MPH OR LESS	2900	2900	2900
URBAN-595 MPH OR LESS	2950	2950	2950
URBAN-605 MPH OR LESS	3000	3000	3000
URBAN-615 MPH OR LESS	3050	3050	3050
URBAN-625 MPH OR LESS	3100	3100	3100
URBAN-635 MPH OR LESS	3150	3150	3150
URBAN-645 MPH OR LESS	3200	3200	3200
URBAN-655 MPH OR LESS	3250	3250	3250
URBAN-665 MPH OR LESS	3300	3300	3300
URBAN-675 MPH OR LESS	3350	3350	3350
URBAN-685 MPH OR LESS	3400	3400	3400
URBAN-695 MPH OR LESS	3450	3450	3450
URBAN-705 MPH OR LESS	3500	3500	3500
URBAN-715 MPH OR LESS	3550	3550	3550
URBAN-725 MPH OR LESS	3600	3600	3600
URBAN-735 MPH OR LESS	3650	3650	3650
URBAN-745 MPH OR LESS	3700	3700	3700
URBAN-755 MPH OR LESS	3750	3750	3750
URBAN-765 MPH OR LESS	3800	3800	3800
URBAN-775 MPH OR LESS	3850	3850	3850
URBAN-785 MPH OR LESS	3900	3900	3900
URBAN-795 MPH OR LESS	3950	3950	3950
URBAN-805 MPH OR LESS	4000	4000	4000
URBAN-815 MPH OR LESS	4050	4050	4050
URBAN-825 MPH OR LESS	4100	4100	4100
URBAN-835 MPH OR LESS	4150	4150	4150
URBAN-845 MPH OR LESS	4200	4200	4200
URBAN-855 MPH OR LESS	4250	4250	4250
URBAN-865 MPH OR LESS	4300	4300	4300
URBAN-875 MPH OR LESS	4350	4350	4350
URBAN-885 MPH OR LESS	4400	4400	4400
URBAN-895 MPH OR LESS	4450	4450	4450
URBAN-905 MPH OR LESS	4500	4500	4500
URBAN-915 MPH OR LESS	4550	4550	4550
URBAN-925 MPH OR LESS	4600	4600	4600
URBAN-935 MPH OR LESS	4650	4650	4650
URBAN-945 MPH OR LESS	4700	4700	4700
URBAN-955 MPH OR LESS	4750	4750	4750
URBAN-965 MPH OR LESS	4800	4800	4800
URBAN-975 MPH OR LESS	4850	4850	4850
URBAN-985 MPH OR LESS	4900	4900	4900
URBAN-995 MPH OR LESS	4950	4950	4950
URBAN-1005 MPH OR LESS	5000	5000	5000

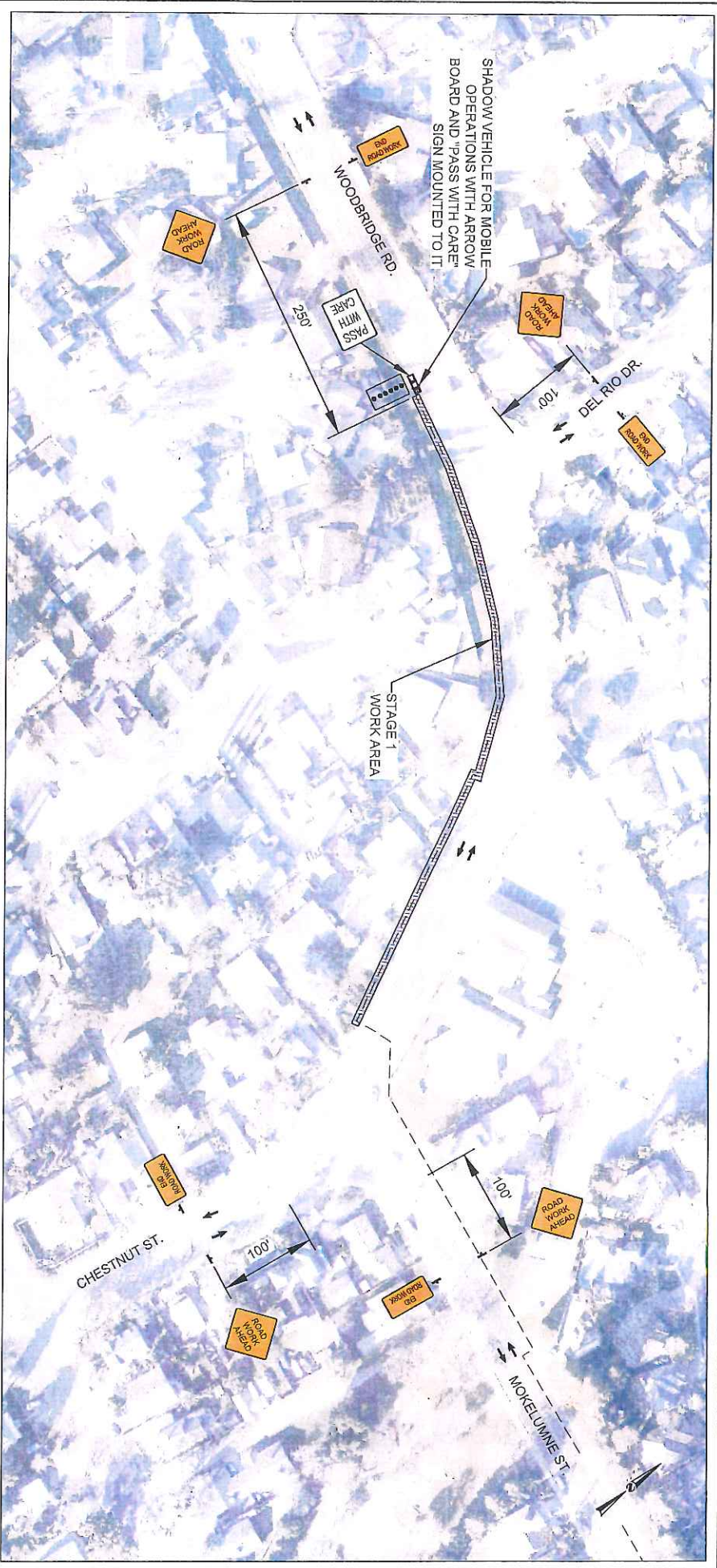
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TABLE 1TABLE 2

### LEGEND

GENERAL NOTES:

1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND CALTRANS STANDARD PLANS AND SPECIFICATIONS.
2. CALTRANS, THE LOCAL FIRE DEPARTMENT, SHERIFF/POLICE DEPARTMENT, CALIFORNIA HIGHWAY PATROL, LOCAL SCHOOL DISTRICT, TRANSIT SERVICE PROVIDERS, AND UNITED STATES POSTAL SERVICE SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF CONSTRUCTION WORK.
3. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS RESULTING FROM THE CONTRACTOR'S OPERATION. THIS REPAIR SHALL INCLUDE ALL CONSTRUCTION AND MATERIALS TO RESTORE THE SITE TO EXISTING CONDITIONS.
4. EACH ADVANCED WARNING SIGN ON EACH SIDE OF THE ROADWAY SHALL BE EQUIPPED WITH AT LEAST TWO FLASHER FLASHING BEACONS SHALL BE PLACED AT THE LOCATION INDICATED FOR LANE CLOSURE DURING HOURS OF DARKNESS.
5. ALL WORKERS SHALL BE EQUIPPED WITH A REFLECTIVE VEST AND HARD HAT. ALL FLAGGERS SHALL ALSO BE EQUIPPED WITH A C25 "STOP/SLOW" PADDLE AND SHALL BE TRAINED IN THE PROPER FUNDAMENTALS OF FLAGGING TRAFFIC.
6. NO PARKING SIGNS SHALL BE PLACED 72 HOURS PRIOR TO SET UP. SIGNS SHALL BE POSTED EVERY 20 LINEAR FEET OF OCCUPIED SPACE WITH AT LEAST ONE SIGN AT EACH END OF OCCUPIED SPACE.
7. ANY CONFLICTING SIGNS WILL BE COVERED FOR THE LENGTH OF THE JOB.
8. CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE AND DRIVEWAY ACCESS AT ALL TIMES.
9. CITY/COUNTY/STATE ENGINEER OR HIS REPRESENTATIVE HAS THE AUTHORITY TO INITIATE FIELD CLOSURES TO ASSURE PUBLIC SAFETY.
10. CONTRACTOR SHALL PLATE EXCAVATED AREAS DURING NON-WORK HOURS.

REVISIONS			
NUMBER	DESCRIPTION	BY	DATE
001	DESIGNED WORK	MEANS GROUP	07/27/08
002	DESIGNED WORK	MEANS GROUP	07/27/08
003	DESIGNED WORK	MEANS GROUP	07/27/08
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DATE: 06/20/2018

SHEET: 6

EC-19-1614 - TRAFFIC CONTROL PLAN

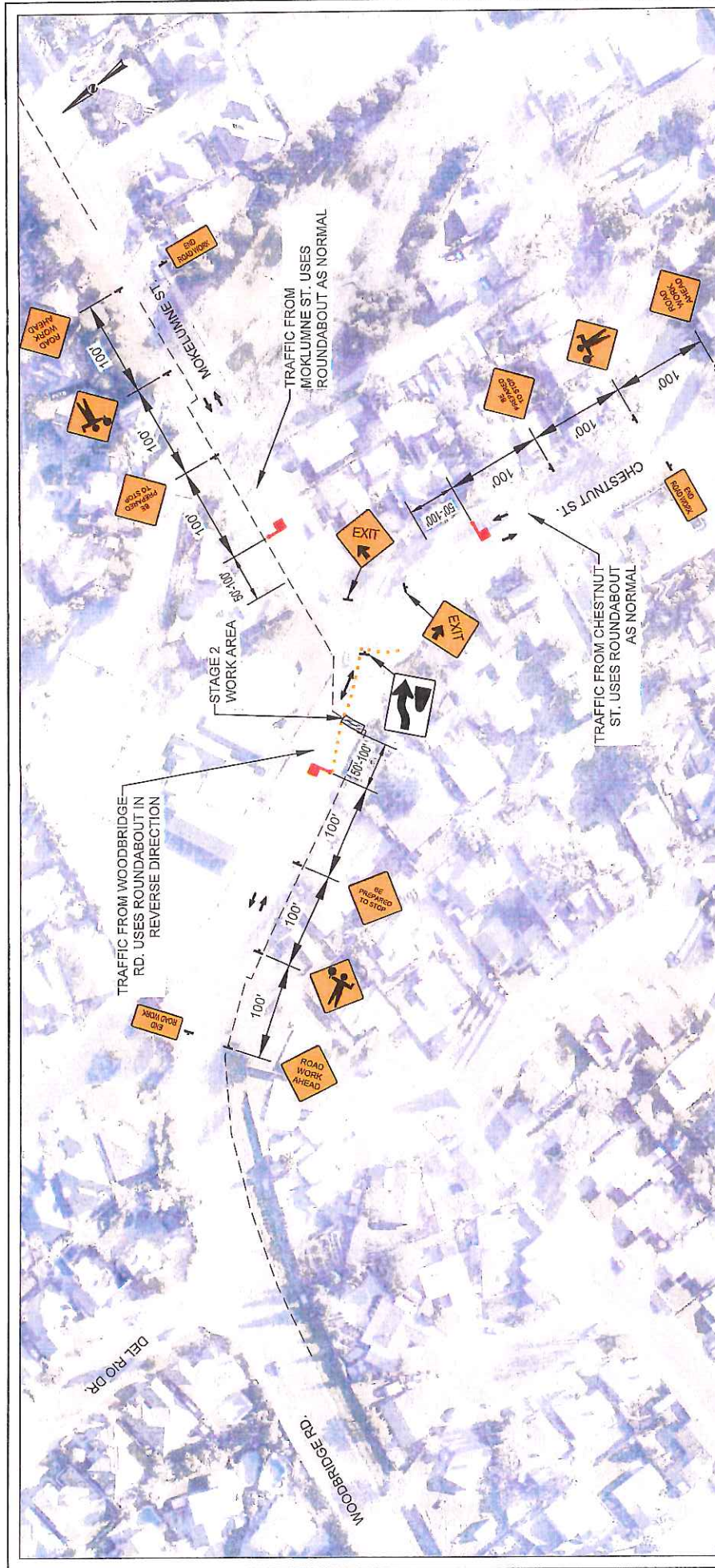
1-1978, HP 4.03-4.79

SECTION 10

L001, CALIFORNIA

EC-19-1614-01





5. ALL WORKERS SHALL BE EQUIPPED WITH A REFLECTIVE VEST AND HARD HAT. ALL FLAGGERS SHALL ALSO BE EQUIPPED WITH A C28 "STOP/SLOW" PADDLE AND SHALL BE TRAINED IN THE PROPER FUNDAMENTALS OF FLAGGING TRAFFIC. NO PARKING SIGNS SHALL BE PLACED 72 HOURS PRIOR TO SET UP. SIGNS SHALL BE POSTED EVERY 20 LINEAR FEET OF OCCUPIED SPACE WITH AT LEAST ONE SIGN AT EACH END OF OCCUPIED SPACE.
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- 10.

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- 3.
- 4.

TABLE 1		TABLE 2				LEGEND	
MINIMUM TAPER LENGTH (FEET)	DOWN SHOULDER L/5	ROAD TYPE	A	B	C	ARROW PANEL	FLAGGER
25	125	URBAN-25 MPH OR LESS	100	100	100	ARROW BOARD (SIGN FACING DOWN)	FLAG TREE
30	150	URBAN-40 MPH TO 40 MPH	250	250	250	DIRECTION OF TRAVEL	PORTABLE SIGN
35	245	URBAN-40 MPH TO 40 MPH	350	350	350	TRAFFIC CONE / DELINEATOR	TYPE 2 OR 3 BARRICADE
40	320	RURAL	500	500	500	DIRECTION OF TEMPORARY TRAFFIC RETURN	
45	540	EXPRESSWAY / FREEWAY	1,000	1,500	2,640	DETOUR ROUTES	
50	600		300	200	50		
55	660		330	220	50		

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EC19-1814 - TRAFFIC CONTROL PLAN

L-197B, MP 4.03-4.79

SECTION 10

LODI, CALIFORNIA

MEARS GROUP, INC.

4500 N. WOODSIDE ROAD, P.O. BOX 60

PHOENIX, ARIZONA 85016-0060

TEL: (602) 435-5533

FAX: (602) 435-5533

DATE: 10/10/2018

TIME: 11:10:00 AM

FILE NAME: EC19-1814 - TRAFFIC CONTROL PLAN

DATE: 10/10/2018

TIME: 11:10:00 AM

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