

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 must be disposed of at an approved hazardous waste site.

15. **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, must conform to section 13-4.03C (2) Material Storage & 13-4.03C (3) Stockpile Management of Caltrans' Standard Specifications.
16. **CONCRETE EQUIPMENT:** Concrete equipment must be washed in a designated washing area in a way that does not contaminate soil, receiving waters, or storm drain systems.
17. **EXISTING VEGETATION:** Established existing vegetation is the best form of erosion control. Minimize disturbance to existing vegetation. Damaged or removed vegetation must be replaced as directed by the State Representative.
18. **SOIL DISTURBANCE:** Soil disturbing activities must 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 must be implemented in advance of soil disturbing activity.
19. **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 Caltrans' Standard Specifications 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. The Permittee must limit the use of plastic materials when more sustainable, environmentally friendly alternatives exist or when environmental regulations prohibit their use within the project.
20. **STOCKPILES:** Stockpiles containing aggregate and/or soil must 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 must be covered and protected with a temporary perimeter sediment barrier. Cold mix stockpiles must be stored on an impermeable surface and covered with 9 mil plastic to prevent contact with water. Minimize stockpiling of materials on the job site. Manage stockpiles by implementing the water pollution control practices in Section 13-4.03C (3) Stockpile Management of the State of California standard specifications for construction.
21. **DISCOVERY OF CONTAMINATION:** The State Representative must 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.
22. **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.

23. **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 non-storm water liquids not covered under separate waste water permits must 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. All measures must conform to section 13-4.03D (5) Liquid Waste, Water Pollution Control of Caltrans' Standard Specifications.
24. **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, 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 runoff.
25. **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 stormwater run-on when not in use.
26. **DEWATERING:** Dewatering consists of discharging accumulated storm water, groundwater, or surface water from excavations or temporary containment facilities. All dewatering operations must comply with the latest Caltrans guidelines including the Field Guide for Construction Site Dewatering. 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 must provide the State Representative with a dewatering and discharge work plan that complies with section 13-4.03G Dewatering, Water Pollution Control of Caltrans' Standard Specifications. A copy of the Waste Discharge Permit and a copy of a valid WDID number issued by the Regional Board must be provided to the State representative.


DIST	COUNTY	ROUTE	POST MILES - TOTAL PROJECT	SHEET TOTAL
			NS	SHEETS
				
August 1, 2022 PLANS APPROVAL DATE REGISTERED CIVIL ENGINEER Nicholas A. Sandoz No. C43078 Exp. 3-31-24 THE AGENT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED PLOTS OR PLANS.				

TABLE 1  
TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING

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

\* - For other offsets, use the following merging taper length formula for L:

$$\text{For speed of 40 mph or less, } L = WS^2/80$$

$$\text{For speed of 49 mph or more, } L = WS$$

Where: L = Taper length in feet

W = Width of offset in feet

S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

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

TABLE 2  
LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING

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

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

\*\* - Longitudinal buffer space or flagger station spacing and longer than 1 mile.

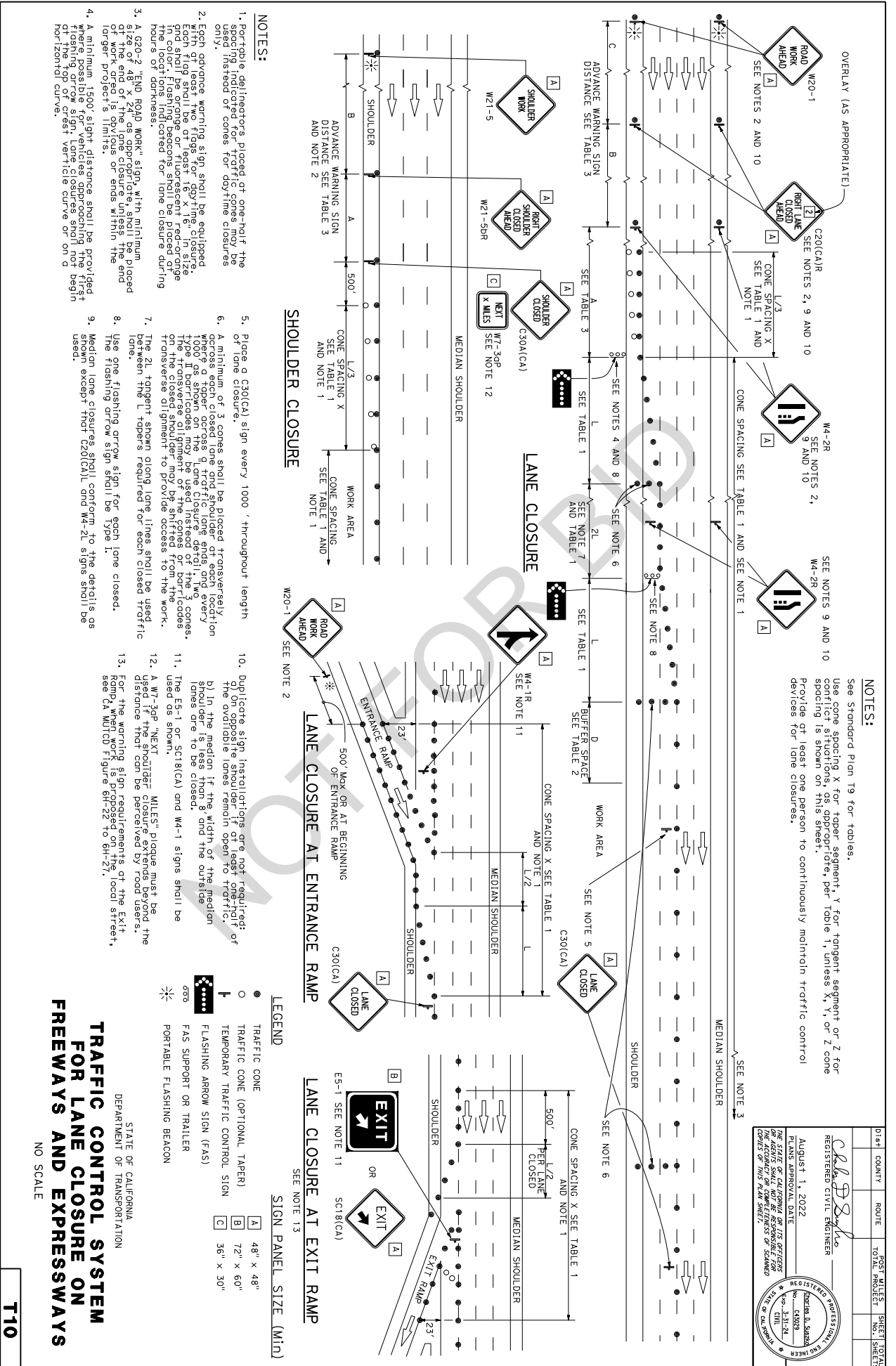
\*\*\* - Use on sustained downgrade steeper than -3 percent

TABLE 3  
ADVANCE WARNING SIGN SPACING

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

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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL SYSTEM TABLES  
FOR LANE AND RAMP CLOSURES**

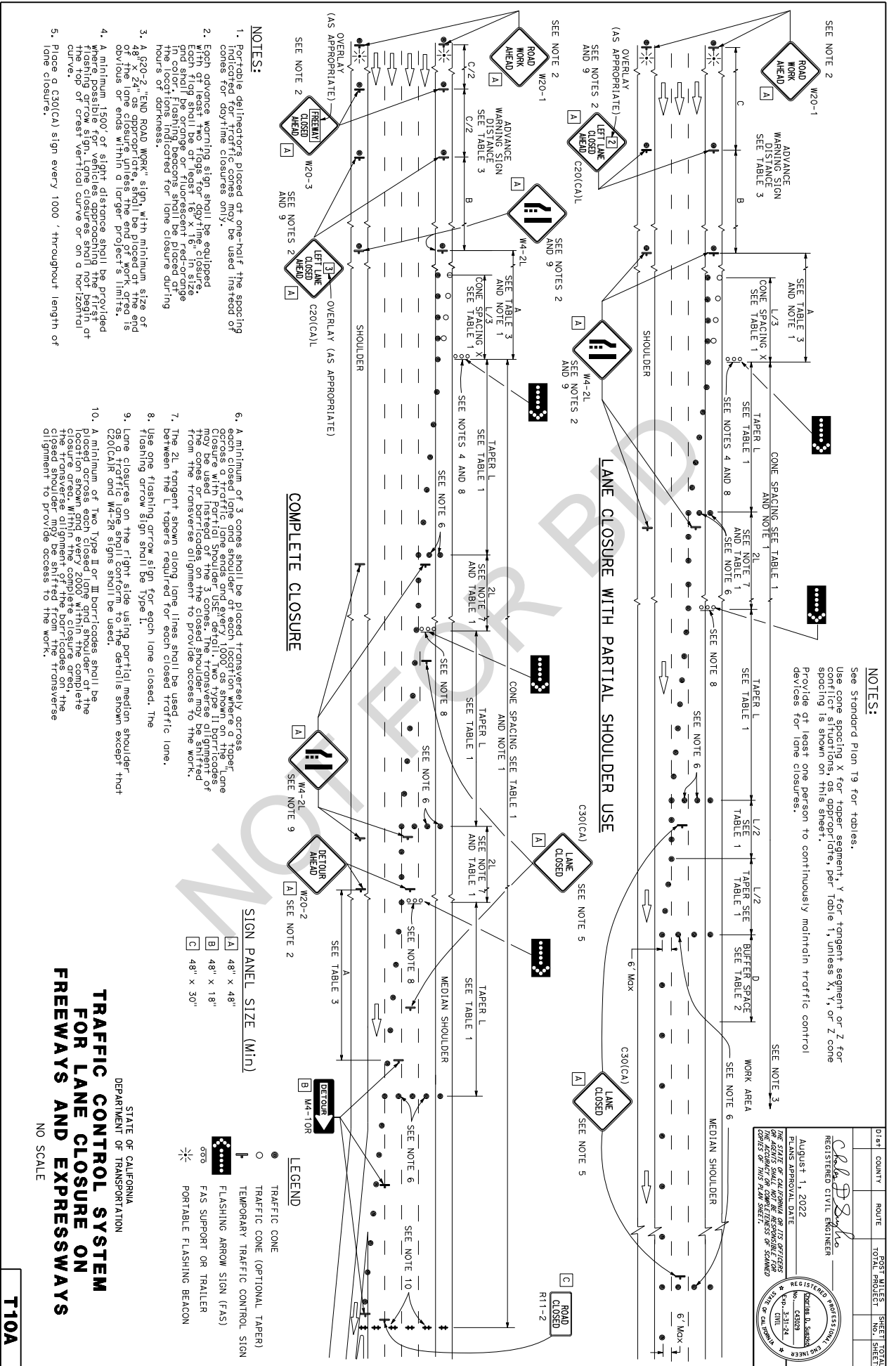


- NOTES:**
1. Portable delineators, placed at one-half the spacing indicated for "T" traffic cones may be used instead of cones for daytime closures only.
  2. Egan advance warning sign shall be equipped with reflective sheeting and fluorescent red-orange and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed during hours of darkness.
  3. A "200-2" "Up Road Work" sign with minimum size of 48" x 48" shall be placed at the end of work area or ends within the end of project's limits.
  4. A minimum 1500' sight distance shall be provided where possible for vehicles approaching the top of crest vertical curve or on a horizontal curve.
  5. Place a C30(CA) sign every 1000' throughout length of lane closure.
  6. A minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper occurs. Traffic cones shall be spaced at 100' intervals. The cones shall be placed in the 3 cones. The transverse alignment of the cones or barricades shall be perpendicular to the centerline of the work area.
  7. The 2L tapered sign shall be used between the 2 cones required for each lane closed. The flashing arrow sign shall be Type 1.
  8. Use one flashing arrow sign for each lane closed.
  9. Median lane closures shall conform to the details as used, except that C20(VA) and W4-2L signs shall be used.
  10. Duplicate sign installations are not required on opposite shoulder if at least one-half of the available lanes remain open to traffic.
  11. The ES-1 or SC18(CA) and W4-1 signs shall be used as shown.
  12. A W7-3p "NEXT" plaque must be used if the shoulder closure extends beyond the distance that can be perceived by road users.
  13. For the warning sign requirements at the Exit ramp, when work is proposed on the local street, see CA MUTCD Figure 6H-22 to 6H-24.

- LEGEND**
- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- TEMPORARY TRAFFIC CONTROL SIGN
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- PORTABLE FLASHING BEACON
- TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS**
- STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION
- NO SCALE
- T10**

DATE	COUNTY	ROUTE	POST MILES	SHEET TOTAL
			NO. 1	SHEETS
REGISTERED CIVIL ENGINEER				
August 1, 2022				
PLANS APPROVAL DATE				
REGISTERED PROFESSIONAL ENGINEER				
No. C4309				
Exp. 3-31-24				
THE AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION OR THE CORRECTNESS OF THE SCALE OF THE DRAWING.				

Return to Table of Contents



**NOTES:**  
 See Standard Plan T9 for tables.  
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.  
 Provide at least one person to continuously maintain traffic control devices for lane closures.

DATE	COUNTY	ROUTE	POST MILES	SHEET TOTAL
			TOTAL PROJECT	NO. SHEETS
REGISTERED CIVIL ENGINEER August 1, 2022 DESIGN APPROVAL DATE: 1/25/2022 THE DESIGNER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED HEREON UNLESS OTHERWISE NOTED ON THE DRAWINGS.				
REGISTERED PROFESSIONAL ENGINEER October 10, 2022 No. C42029 Exp. 3-31-24 CIVIL STATE OF CALIFORNIA				

- NOTES:**
1. Portable delineators placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
  2. Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall flash in both directions. Signs placed at the locations indicated for lane closure during hours of darkness.
  3. A 220-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the work area and at the end of the taper and is optional on expressways and freeways.
  4. A minimum 1500' of sight distance shall be provided for the placement of advance warning signs. The top of crest vertical curve or on a horizontal curve.
  5. Place a C30(CA) sign every 1000' throughout length of lane closure.

6. A minimum of 3 cones shall be placed transversely across each closed lane and should be seen by any driver taper across a traffic lane ends and every 1000' as shown on the lane closure with partial shoulder use detail. Two Type II barricades of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
7. The 2L taper shown along lane lines shall be used between the L tapers required for each closed traffic lane.
8. Use one flashing arrow sign for each lane closed. The flashing arrow sign shall be Type I.
9. Lane closures on the right side using partial median shoulder C20(CA)R and W4-2R signs shall be used.
10. A minimum of Two Type II or III barricades shall be placed across each closed lane and shoulder at the location shown and every 2000' within the complete closure area. The alignment of the complete closure shall be shifted from the transverse alignment to provide access to the work.

**SIGN PANEL SIZE (MIN)**

A	48" x 48"
B	48" x 18"
C	48" x 30"

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

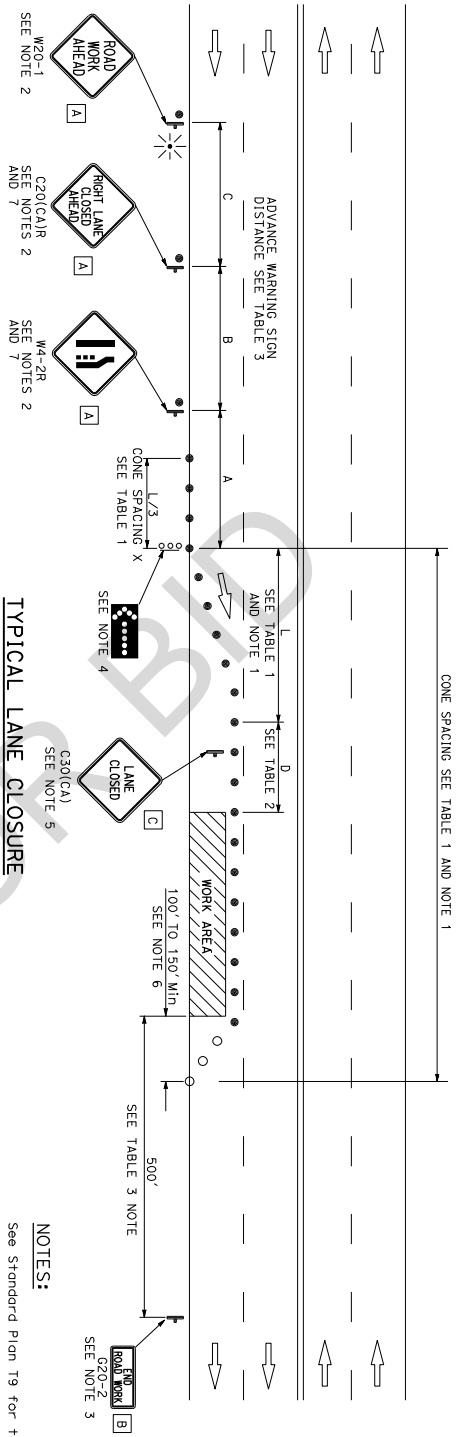
STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

**T10A**



Sheet	County	Route	Post Miles	Sheet Total
			Total Project	No. Sheets

August 1, 2022  
 PLAN APPROVAL DATE  
 REGISTERED CIVIL ENGINEER  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 43008  
 Exp. 3-31-24  
 CIVIL  
 THE AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION OR DIMENSIONS OF SCANNED PLOTS OR PLANS.



TYPICAL LANE CLOSURE

- NOTES:**
- See Standard Plan T9 for tables.
  - Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
  - Provide at least one person to continuously maintain traffic control devices for lane closures.

**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)**

A	48" x 48"
B	36" x 18"
C	30" x 30"

- NOTES:**
- Portable delineators placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
  - Each advance warning sign shall be equipped with at least two flags or daytime closure. Each flag shall be at least 16 x 16 inches and placed from the top of the sign to the top of the flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
  - A G20-2 "END ROAD WORK" sign shall be placed at the end of the lane closure unless the end of work area is obvious or ends within the larger project's limits.
  - A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.

- Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work area.
- Length may be reduced by the Engineer to address site conditions.
- Median lane closures shall conform to the details shown except that G20(CA) and W4-2L signs shall be used.
- For approach speeds over 50 MPH, use the "Traffic Control System for Lane Closure on Freeways and Expressways" plan for lane closure details and requirements.

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL SYSTEM  
 FOR LANE CLOSURE ON  
 MULTILANE CONVENTIONAL  
 HIGHWAYS**  
 NO SCALE

T11

DATE	COUNTY	ROUTE	POST MILES	SHEET TOTAL
			TOTAL PROJECT	NO. SHEETS
REGISTERED CIVIL ENGINEER <i>R.P. Smith</i> August 1, 2022 LICENSE APPROVAL DATE REGISTERED PROFESSIONAL ENGINEER No. C43028 Exp. 3-31-24 CIVIL REGISTERED PROFESSIONAL ENGINEER No. 22015 Exp. 12-31-24 CIVIL REGISTERED PROFESSIONAL ENGINEER No. 22015 Exp. 12-31-24 CIVIL				
THIS DOCUMENT IS THE PROPERTY OF THE REGISTERED PROFESSIONAL ENGINEER. IT IS TO BE USED ONLY FOR THE PROJECT AND PURPOSE SPECIFIED HEREON. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF THE REGISTERED PROFESSIONAL ENGINEER.				

- LEGEND**
- TRAFFIC CONE
  - ⬇ TEMPORARY TRAFFIC CONTROL SIGN
  - ⬆ FLASHING ARROW SIGN (FAS)
  - ⊞ FAS SUPPORT OR TRAILER
  - ☼ PORTABLE FLASHING BEACON

- SIGN PANEL SIZE (Min)**
- A 48" x 48"
  - B 24" x 24"
  - C 36" x 18"

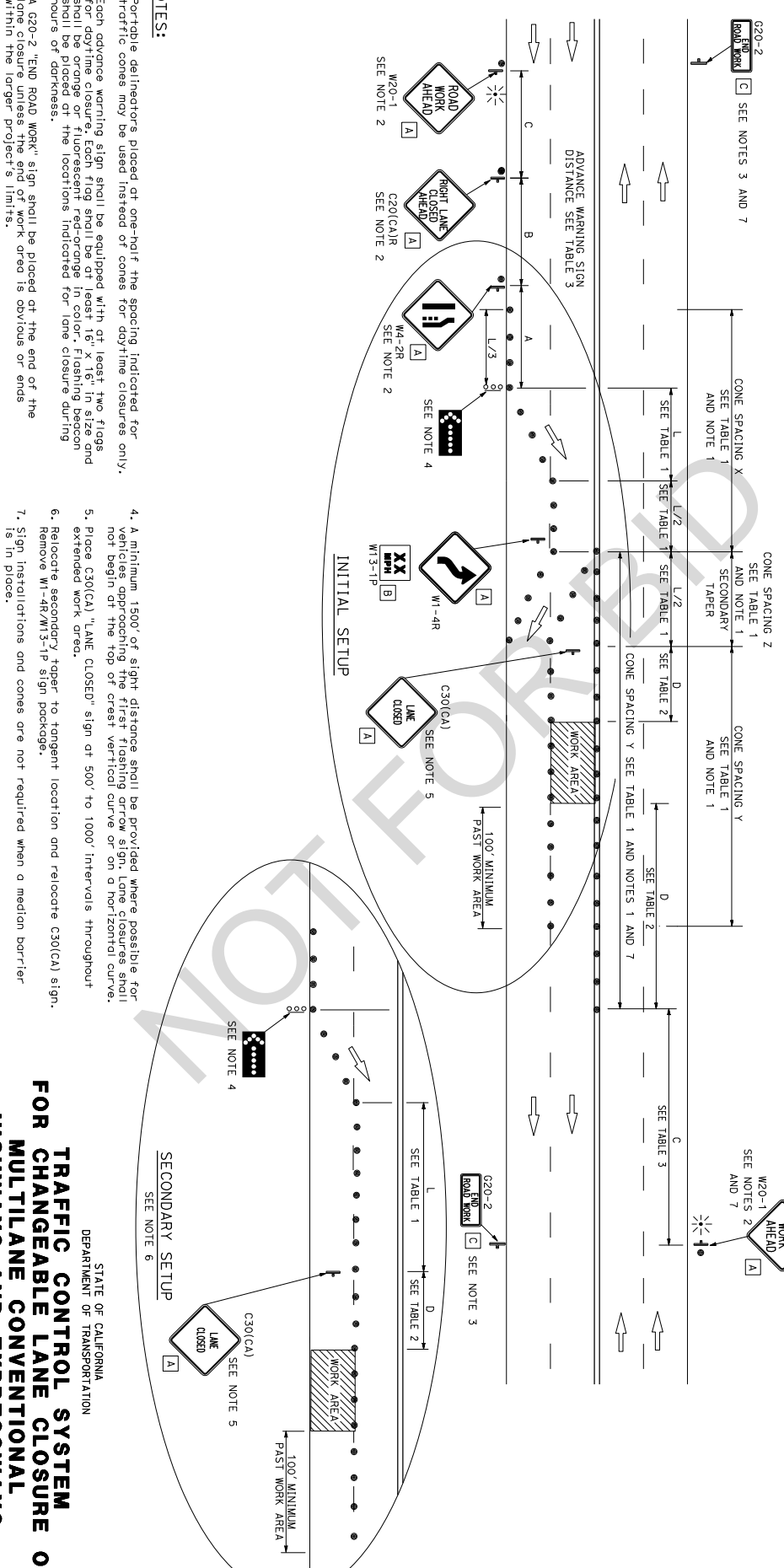
**NOTES:**

See Standard Plan T9 for tables.

Use cone spacing X for taper segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

Provide at least one person to continuously maintain traffic control devices for lane closures.

**TYPICAL CHANGEABLE LANE CLOSURE**



- NOTES:**
1. Portable delineators placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
  2. Each advance warning sign shall be equipped with at least two flags. For daytime closure, each flag shall be at least 6" x 16" in size and for nighttime closure, each flag shall be at least 8" x 18" in size and shall be placed at the locations indicated for lane closure during hours of darkness.
  3. A G20-2 "END ROAD WORK" sign shall be placed at the end of the lane closure unless the end of work area is obvious or ends within the longer project's limits.

4. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
5. Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work area.
6. Relocate secondary taper to tangent location and relocate C30(CA) sign. Remove W1-4R/W1-3-1P sign package.
7. Sign installations and cones are not required when a median barrier is in place.

**TRAFFIC CONTROL SYSTEM  
 FOR CHANGEABLE LANE CLOSURE ON  
 MULTILANE CONVENTIONAL  
 HIGHWAYS AND EXPRESSWAYS**

**T11A**

- LEGEND**
- TRAFFIC CONE
  - ⊥ TEMPORARY TRAFFIC CONTROL SIGN
  - ⬇ FLASHING ARROW SIGN (FAS)
  - ⊛ FAS SUPPORT OR TRAILER
  - ⊛ PORTABLE FLASHING BEACON

- SIGN PANEL SIZE (Min)**
- A 48" x 48"
  - B 24" x 24"
  - C 36" x 18"

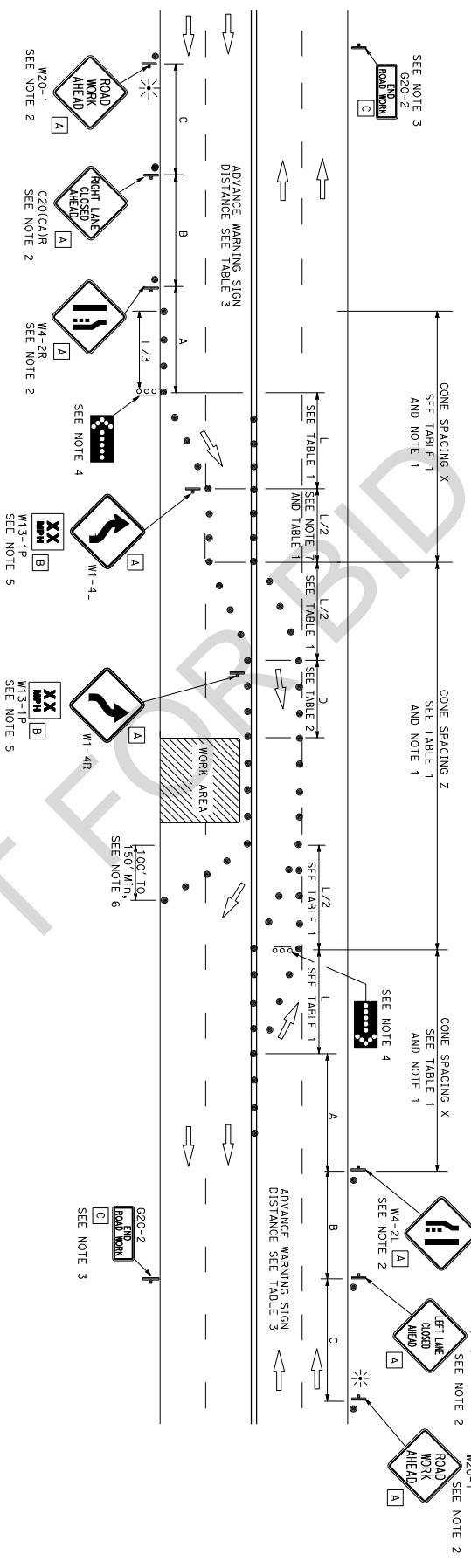
**NOTES:**

See Standard Plan T9 for tables.

Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

Provide at least one person to continuously maintain traffic control devices for lane closures.

**TYPICAL HALF ROAD CLOSURE**



- NOTES:**
1. Portable delineators placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
  2. Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
  3. A G20-2 "END ROAD WORK" sign, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within the larger project's limits.
  4. A minimum 1500' sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
  5. Advisory speed will be determined by the Engineer. The W13-1P Plaque will not be required when advisory speed is more than the posted or maximum speed limit.
  6. Length may be reduced by the Engineer to address site conditions.
  7. The tangent (L/2) shall be used.

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

NO SCALE

**T12**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTALS
				NS, SHEETS

REGISTERED CIVIL ENGINEER

August 1, 2022

PLANS APPROVAL DATE

175 007 0000

THE AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED DRAWINGS OR CALCULATIONS.

REGISTERED PROFESSIONAL ENGINEER

Indira B. Sandoz

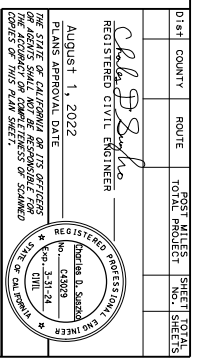
No. C43078

Exp. 3-31-24

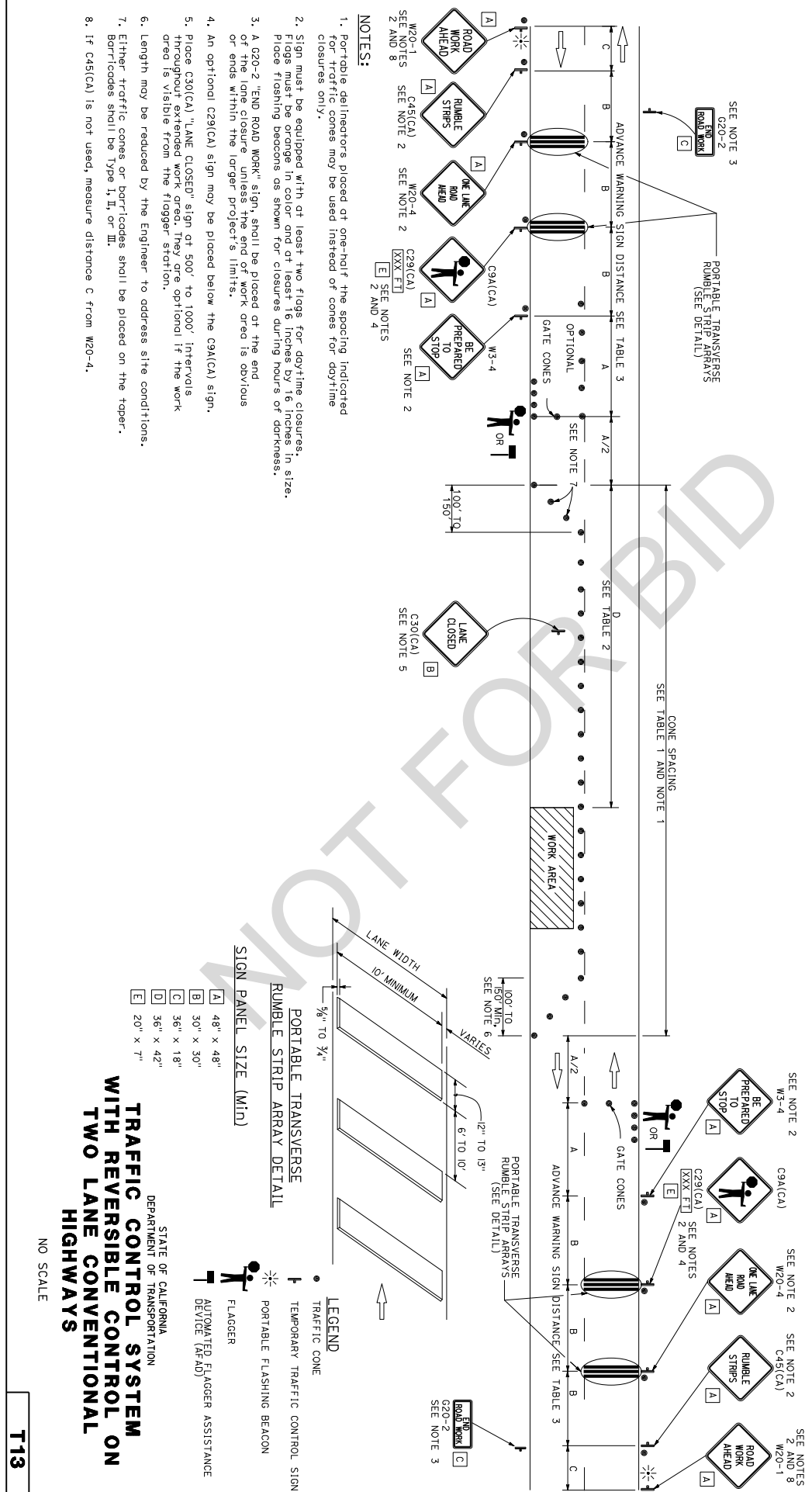
CIVIL

STATE OF CALIFORNIA

Return to Table of Contents

Dist	COUNTY	ROUTE	POST MILES	SHEET TOTALS
			TOTAL PROJECT	NO. SHEETS
				
August 1, 2022 LICENSE APPROVAL DATE REGISTERED CIVIL ENGINEER Nicholas B. Sandoz No. C43019 Exp. 3-31-24 THIS AGENT'S SEAL SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION OR THE RELIABILITY OF THE DATA.				

**NOTES:**  
 See Standard Plan T9 for tables.  
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflicting situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.  
 Provide at least one person to continuously maintain traffic control devices for lane closures.



**T13**

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL SYSTEM  
 WITH REVERSIBLE CONTROL ON  
 TWO LANE CONVENTIONAL  
 HIGHWAYS**  
 NO SCALE

**LEGEND**

- TRAFFIC CONE
- ⬇ TEMPORARY TRAFFIC CONTROL SIGN
- ⚡ PORTABLE FLASHING BEACON
- ⚡ FLAGGER
- ⚡ AUTOMATED FLAGGER ASSISTANCE DEVICE (AHEAD)

**SIGN PANEL SIZE (MIN)**

A	48" x 48"
B	30" x 30"
C	36" x 18"
D	36" x 42"
E	20" x 7"

**TRAFFIC CONTROL SIGN**

W20-1	SEE NOTE 2 AND 8
C45(CA)	SEE NOTE 2
W20-4	SEE NOTE 2
C29(CA)	SEE NOTES 2 AND 4
W3-4	SEE NOTE 2
C30(CA)	SEE NOTE 5
W20-2	SEE NOTE 3

**PORTABLE TRANSVERSE RUMBLE STRIP ARRAY DETAIL**

A	48" x 48"
B	30" x 30"
C	36" x 18"
D	36" x 42"
E	20" x 7"

**TRAFFIC CONTROL SIGN**

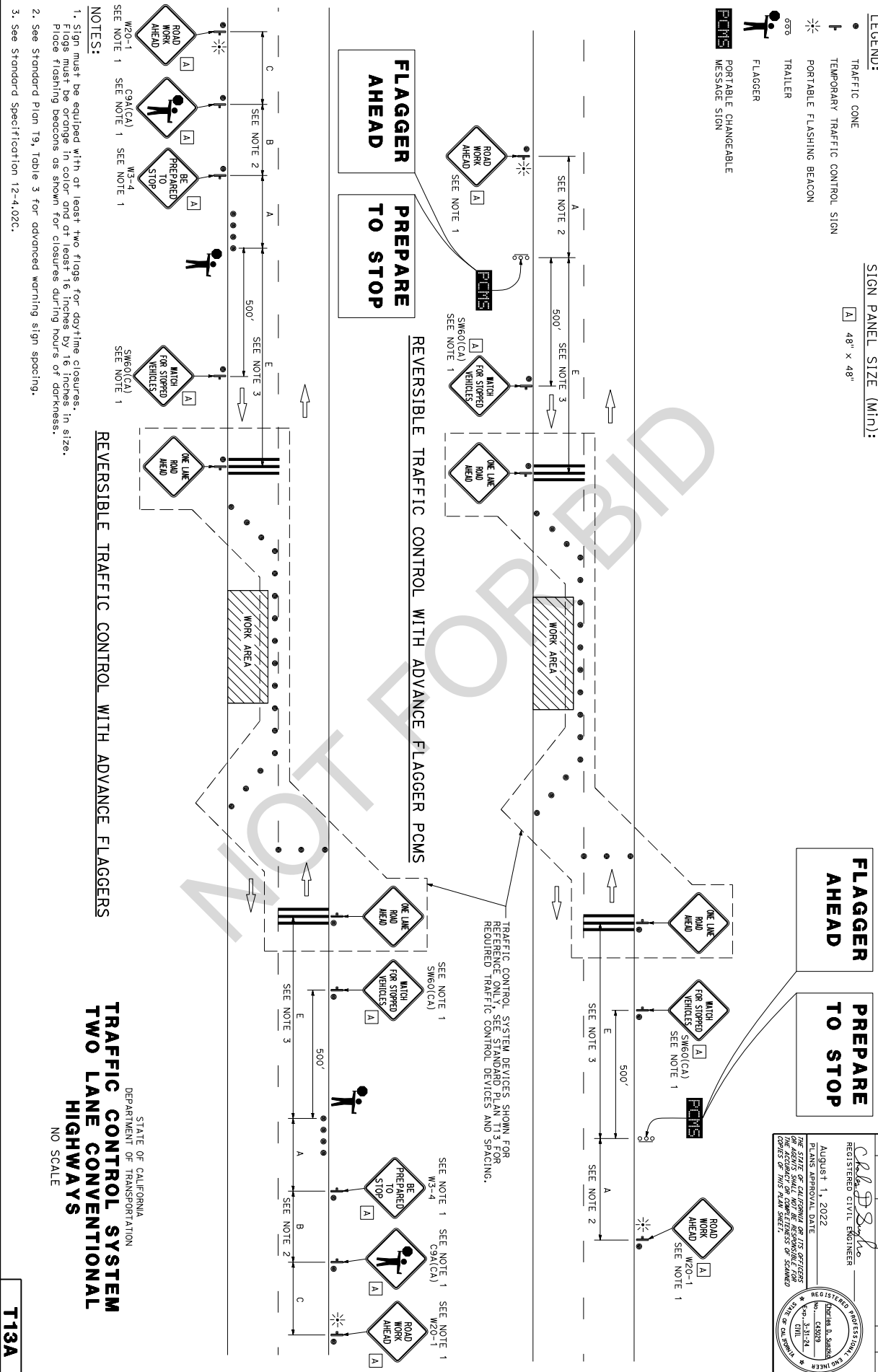
W20-1	SEE NOTE 2 AND 8
C45(CA)	SEE NOTE 2
W20-4	SEE NOTE 2
C29(CA)	SEE NOTES 2 AND 4
W3-4	SEE NOTE 2
C30(CA)	SEE NOTE 5
W20-2	SEE NOTE 3

2022 STANDARD PLAN T13

Return to Table of Contents

LEGEND: SIGN PANEL SIZE (MIN.): 48" x 48"

- TRAFFIC CONE
- ⬮ TEMPORARY TRAFFIC CONTROL SIGN
- ⚡ PORTABLE FLASHING BEACON
- ☐ TRAILER
- ♠ FLAGGER
- ☐ PORTABLE CHANGEABLE MESSAGE SIGN



- NOTES:
1. Sign must be equipped with at least two flags for daytime closures. Flags must be orange in color and at least 16 inches by 16 inches in size. Place flashing beacons as shown for closures during hours of darkness.
  2. See Standard Plan 19, Table 3 for advanced warning sign spacing.
  3. See Standard Specification 12-4.02C.

REVERSIBLE TRAFFIC CONTROL WITH ADVANCE FLAGGERS

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL SYSTEM  
TWO LANE CONVENTIONAL  
HIGHWAYS**  
NO SCALE

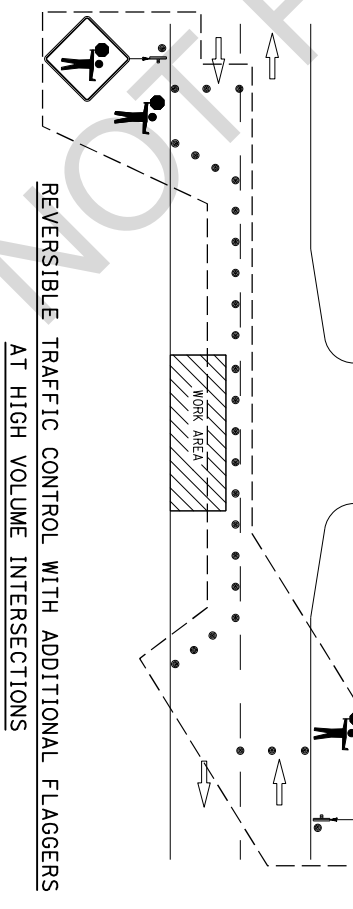
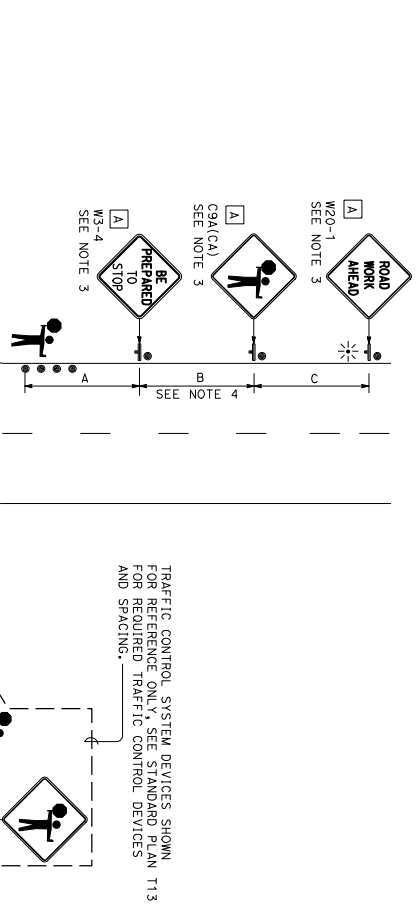
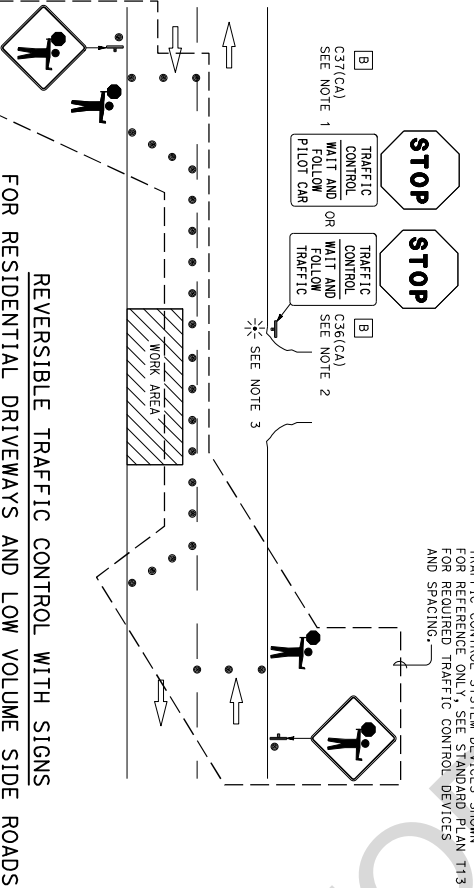
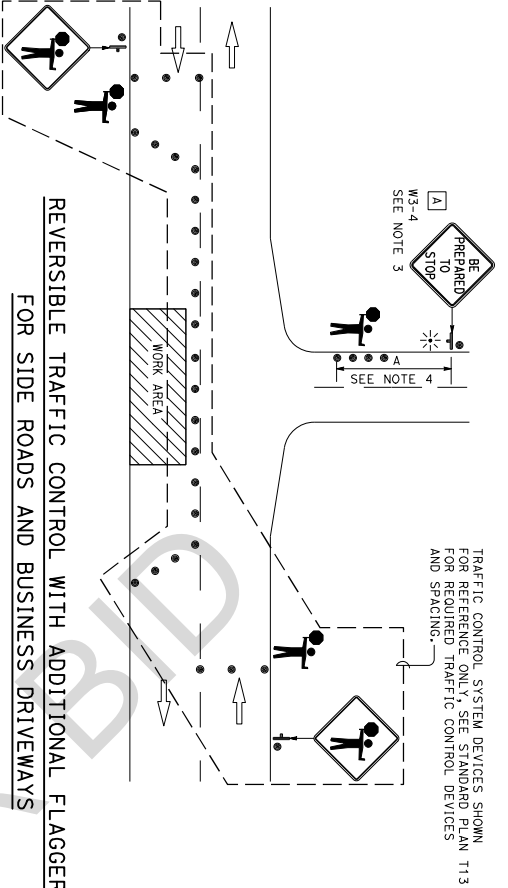
T13A

DIR#	COUNTY	ROUTE	POST MILES	SHEET TOTAL
			TOTAL PROJECT	NO. SHEETS

REGISTERED CIVIL ENGINEER  
*R. B. Smith*  
 August 1, 2022  
 PLANS APPROVAL DATE  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 44308  
 Exp. 3-31-24  
 CIVIL  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 44308  
 Exp. 3-31-24  
 CIVIL  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 44308  
 Exp. 3-31-24  
 CIVIL

Return to Table of Contents

Sheet	County	Route	Post Miles	Sheet Totals
			Total Project	No. Sheets
REGISTERED CIVIL ENGINEER <i>Richard B. Sandoz</i> August 1, 2022 EXPIRES: AUGUST 1, 2025 LICENSE NO. C43078 REGISTERED PROFESSIONAL ENGINEER No. C43078 Exp. 3-31-24 CIVIL REGISTERED PROFESSIONAL ENGINEER No. C43078 Exp. 3-31-24 CIVIL REGISTERED PROFESSIONAL ENGINEER No. C43078 Exp. 3-31-24 CIVIL				



- NOTES:**
- Place C37(CA) sign when pilot car is used.
  - Place C36(CA) sign when pilot car is not used.
  - Sign must be equipped with at least two flags for daytime closures. Flags must be orange in color and at least 16 inches by 16 inches in size. Place flashing beacons as shown for closures during hours of darkness.
  - See Standard Plan T9, Table 3 for advance warning sign spacing.

- LEGEND:**
- TRAFFIC CONE
  - ⊥ TEMPORARY TRAFFIC CONTROL SIGN
  - ⚡ PORTABLE FLASHING BEACON
  - ⦿ FLAGGER

- SIGN PANEL SIZE (MIN)**
- A 48" x 48"
  - B 36" x 42"

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**TWO LANE TRAFFIC CONTROL SYSTEM  
 AT HIGH VOLUME INTERSECTIONS**  
 NO SCALE  
**T13B**



**PORTABLE TRANSVERSE RUMBLE STRIPS SPECIAL PROVISIONS**D9EP-T13PTRS (Rev 11/2018)

---

**Replace *Reserved* in section 12-3.36 of the 2018 Caltrans Standard Specifications with:**

Place portable transverse rumble strips before closing the lane to traffic.

The color of the portable transverse rumble strips must be black or orange. Use 2 arrays and, each array must consist of 3 rumble strips.

Portable transverse rumble strips must not be placed:

1. On sharp horizontal or vertical curves
2. Through pedestrian crossings

If the portable transverse rumble strips become out of alignment or skewed by more than 6 inches, measured from one end to the other, readjust to bring the placement back to the original location.

Portable transverse rumble strips are not required if any of the following conditions is met:

1. Work duration occupies a location for 4 hours or less.
2. Posted speed limit is below 45 mph.
3. Work is of emergency nature.
4. Work zone is in snow or icy weather conditions.

For a RoadQuake 2 rumble strip, securely connect the 3 sections under the manufacturer's instructions before placing them in the traffic lane.

Remove all portable transverse rumble strips and warning signs before opening the lane to traffic.

If the Engineer determines that the portable transverse rumble strips no longer provide audible and vibratory alerts, replace them.

**STANDARD ENCROACHMENT PERMIT APPLICATION**

TR-0100 (REV 12/2018)

FOR CALTRANS USE

TRACKING NO.

09-22-N-TK-1131

DIST/CO/RTE/PM

09/SBD/127/0.0

SIMPLEX STAMP

**Complete ALL fields, write "N/A" if not applicable. Type or print clearly.**

This application is not complete until all requirements have been approved.

Permission is requested to encroach on the State Highway right-of-way as follows:

1. COUNTY San Bernardino	2. ROUTE SR-127 / I-15	3. POST MILE SBD L0.17	
4. ADDRESS OR STREET NAME Baker Boulevard	5. CITY Baker		
6. CROSS STREET (Distance and direction from project site) SH-127 & I-15			DATE OF SIMPLEX STAMP 12/23/2022
7. WORK TO BE PERFORMED BY <input type="checkbox"/> APPLICANT <input checked="" type="checkbox"/> CONTRACTOR		8. IS THIS APPLICATION FOR THE CONTRACTOR'S (DOUBLE) PERMIT? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES. If "YES", provide the Parent Permit Number	
9. ESTIMATE START DATE JUNE 2023		10. ESTIMATED COMPLETION DATE August 2023	
11. ESTIMATED NUMBER OF WORKING DAYS WITHIN STATE HIGHWAY RIGHT-OF-WAY 30			
12. ESTIMATED CONSTRUCTION COSTS WITHIN STATE HIGHWAY RIGHT-OF-WAY			
13. HAS THE PROJECT BEEN REVIEWED BY ANOTHER CALTRANS BRANCH? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES. If "YES", which branch?			
14. FUNDING SOURCE(S) <input type="checkbox"/> FEDERAL <input type="checkbox"/> STATE <input checked="" type="checkbox"/> LOCAL <input type="checkbox"/> PRIVATE <input type="checkbox"/> SB 1 (ROAD REPAIR AND ACCOUNTABILITY ACT OF 2017)			
15. CALTRANS PROJECT CODE (ID) N/A		16. APPLICANT'S REFERENCE / UTILITY WORK ORDER NUMBER TX1814	

17. DESCRIBE WORK TO BE DONE WITHIN STATE HIGHWAY RIGHT-OF-WAY (in 20 lines or less)

Attach 6 complete sets of plans (folded to 8.5" x 11") and any applicable specifications, calculations, maps, traffic control plans, etc.

The project involves Mill and Overlay for the following locations

Baker Boulevard at SH-127 intersection; Baker Boulevard at I-15 Onramps and Offramps

Proposed treatment:

- 0.26' Mill and 0.20' of Type A, 3/4" Aggregate Gradation, PG76-22 PM HMA Overlay

- 0.06' Leveling Course Type A, 3/8" Aggregate Gradation, PG 70-10 HMA

- GlasPave 50

Traffic Control Only at the following locations:

Baker Boulevard at I-15 Onramps and Offramps

18 (a). PORTION OF STATE HIGHWAY RIGHT-OF-WAY WHERE WORK IS BEING PROPOSED (check all that apply)

 Traffic lane  Shoulder  Sidewalk  Median  At or near an intersection  Mobile work Outside of the shoulder, \_\_\_\_\_ feet from edge of pavement  Other \_\_\_\_\_

18 (b). PROPOSED TRAFFIC CONTROL PLANS AND METHOD

 No traffic control needed  State Standard Plans (T-Sheets) # \_\_\_\_\_ Project specific Traffic Control Plans included  To be submitted by contractor**ADA Notice**

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**STANDARD ENCROACHMENT PERMIT APPLICATION**

TR-0100 (REV 12/2018)

TRACKING NO.

09-22-N-TK-1131

19. EXCAVATION	MAX. DEPTH (in)	MIN. DEPTH (in)	AVG. WIDTH (in)	LENGTH (ft)	SURFACE TYPE (e.g. Asphalt, concrete, soil, etc.)
20. PIPES	PRODUCT BEING TRANSPORTED		CARRIER PIPE DIAMETER _____ (in.) MATERIAL _____		CASING PIPE DIAMETER _____ (in.) MATERIAL _____
PROPOSED INSTALLATION METHOD (e.g. HDD, Bore & Jack, Open Cut, etc.) N/A					VOLTAGE / PSIG

DOES THE PROPOSED PROJECT INVOLVE THE REPLACEMENT AND/OR ABANDONMENT OF AN EXISTING FACILITY?

 NO  YES. If "YES", provide a description

21. IS A CITY, COUNTY OR OTHER PUBLIC AGENCY INVOLVED IN THE APPROVAL OF THIS PROJECT?

 YES (if "YES", check the type of project AND attach the environmental documentation and conditions of approval) COMMERCIAL DEVELOPMENT  BUILDING  GRADING  OTHER Pavement Rehabilitation CATEGORICALLY EXEMPT  NEGATIVE DECLARATION  ENVIRONMENTAL IMPACT REPORT  OTHER \_\_\_\_\_ NO (if "NO", check the category below which best describes the project AND answer questions A-K) DRIVEWAY OR ROAD APPROACH, RECONSTRUCTION,  
MAINTENANCE OR RESURFACING FENCE  EROSION CONTROL PUBLIC UTILITY MODIFICATION, EXTENSIONS, HOOKUPS MAILBOX  LANDSCAPING FLAGS, SIGNS, BANNERS, DECORATIONS, PARADES AND CELEBRATIONS  OTHER \_\_\_\_\_**The following questions must be answered when a City, County or other public agency IS NOT involved in the approval of this project.**

Your answers to these questions will assist Caltrans staff in identifying any physical, biological, social or economic resources that may be affected by your proposed project within State Highway right-of-way and to determine which type of environmental studies may be required to approve your application for an encroachment permit. It is the applicant's responsibility for the production of all required environmental documentation and supporting studies and in some cases this may be costly and time consuming. If possible, attach photographs of the location of the proposed project. Answer these questions to the best of your ability. Provide a description of any "YES" answers (type, name, number, etc.).

A. Will any existing vegetation and/or landscaping within State Highway right-of-way be disturbed?

B. Are there waterways (e.g. river, creek, pond, natural pool or dry streambed) adjacent to or within the limits of the proposed project?

C. Is the proposed project located within five miles of the coast line?

D. Will the proposed project generate construction noise levels greater than 86 decibels (dBA) (e.g. Jack-hammering, pile driving)?

E. Will the proposed project incorporate land from a public park, recreation area or wildlife refuge open to the public?

F. Are there any recreational trails or paths within the limits of the proposed project?

G. Will the proposed project impact any structures, buildings, rail lines or bridges within State Highway right-of-way?

H. Will the proposed project impact access to any businesses or residences?

I. Will the proposed project impact any existing public utilities or public services?

J. Will the proposed project impact any existing pedestrian facilities, such as sidewalks, crosswalks or overcrossings?

K. Will new lighting be constructed within or adjacent to State Highway right-of-way?

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**STANDARD ENCROACHMENT PERMIT APPLICATION**

TR-0100 (REV 12/2018)

TRACKING NO.

09-22-N-TK-1131

22. Will the proposed project cause a substantial change in the significance of a historical resource (45 years or older), or cultural resource?  YES  NO (if "YES", provide a description)

23. Will the proposed project be on an existing State Highway or street where the activity involves removal of a scenic resource? (e.g. A significant tree or stand of trees, a rock outcropping or a historic building)  YES  NO (if "YES", provide a description)

24. Is work being done on the applicant's property in addition to State Highway right-of-way?  YES  NO  
(If "YES", attach 6 complete sets of site and grading plans)

25. Will the proposed project require the disturbance of soil?  YES  NO  
If "YES", estimate the area of disturbed soil within State Highway right-of-way in acres: \_\_\_\_\_  
and estimate the area of disturbed soil outside State Highway right-of-way in acres: \_\_\_\_\_

26. Will the proposed project require dewatering?  YES  NO  
If "YES", estimate Total gallons AND gallons/month. \_\_\_\_\_ (Total gallons) AND \_\_\_\_\_ (gallons/month)  
SOURCE\*:  STORMWATER  NON-STORMWATER  
(\*See Caltrans SWMP for definition of non-storm water discharge: <http://www.dot.ca.gov/env/stormwater/> )

27. How will any storm water or ground water be disposed?  
 Storm Drain System  Combined Sewer / Stormwater System  Stormwater Retention Basin  N/A  
 Other (explain) \_\_\_\_\_

NOT FOR BIDDING

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**STANDARD ENCROACHMENT PERMIT APPLICATION**

TR-0100 (REV 12/2018)

TRACKING NO

**READ THE FOLLOWING CLAUSES PRIOR TO SIGNING THIS ENCROACHMENT PERMIT APPLICATION.**

The applicant's submission of this application to the California Department of Transportation constitutes the applicant's agreement and representation that the work or other activity contemplated by the encroachment permit application shall comply with all applicable standards, specifications, policies, requirements, conditions, and regulations of the California Department of Transportation, and the applicant understands the application may be denied if there is non-compliance with any of the above. An exception process exists and may result in approval of a non-compliant encroachment, in the discretion of the California Department of Transportation, but the exception process may require additional time to complete. The applicant understands and agrees all work or other activity contemplated by the encroachment permit application is subject to inspection and oversight by the California Department of Transportation. The applicant understands and agrees encroachment permit fees must still be paid if an application is withdrawn or denied. The applicant understands a denial may be appealed, in accordance with California Streets and Highways Code, Section 671.5, and the related regulations found in California Code of Regulations, Title 21, Division 2, Chapter 8, Article 2.

The applicant understands and agrees that immediately upon issuance of the encroachment permit the applicant is bound by, subject to, and must comply with the "Encroachment Permit General Provisions" (TR-0045), "Stormwater Special Provisions" (TR-0400) and any other applicable Special Provisions and Conditions of the encroachment permit. The "Encroachment Permit General Provisions" (TR-0045), and the Stormwater Special Provisions (TR-0400) are available at: . If a paper copy is needed of the "Encroachment Permit General Provisions" (TR-0045) and/or "Stormwater Special Provisions" (TR-0400), please contact the District Office of Encroachment Permits. Their contact information is available at: . The "Encroachment Permit General Provisions" (TR-0045) and any other applicable Special Provisions and Conditions will be provided as part of the encroachment permit. Information about Stormwater requirements is available at the Internet address: .

The applicant understands an encroachment permit may be denied, revoked, and/or a bond may be required, for non-payment of prior or present encroachment permit fees. An encroachment permit is not a property right and does not transfer with the property to a new owner. Each of the persons purporting to execute this application on behalf of the applicant and/or on behalf of the applicant's authorized agent or engineer represents and warrants such person has full and complete legal authority to do so and to thereby bind applicant to the terms and conditions herein and to the terms and/or conditions of the encroachment permit. Applicant understands and agrees this application may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. Executed copies of this application and/or its counterparts may be reproduced and/or exchanged by copy machine, mailing, facsimile, or electronic means (such as e-mail), and such copies shall be deemed to be effective as originals.

28. NAME OF APPLICANT (Project or Property Owner or Organization)

San Bernardino County Department of Public Works/ Noel Mondragon - Supervising Engineer

ADDRESS OF APPLICANT (Include City, State and Zip Code)

825 East Third Street, San Bernardino, CA 92415

E-MAIL ADDRESS

noel.mondragon@dpw.sbcounty.gov

PHONE NUMBER

(909) 387-7952

FAX NUMBER

29. NAME OF AUTHORIZED AGENT / ENGINEER (A "Letter of Authorization" is required if different from #28)

San Bernardino County Department of Public Works

ADDRESS OF AUTHORIZED AGENT / ENGINEER (Include City, State and Zip Code)

E-MAIL ADDRESS

PHONE NUMBER

FAX NUMBER

IS A LETTER  
OF AUTHORIZATION  
ATTACHED?  
 YES  NO30. NAME OF BILLING CONTACT (Same as #28  Same as #29 )

BILLING ADDRESS WHERE INVOICE(S) IS / ARE TO BE MAILED (Include City, State and Zip Code)

E-MAIL ADDRESS

PHONE NUMBER

FAX NUMBER

I hereby certify under penalty of perjury under the laws of the State of California that the information in this application and any document submitted with or in support of this application are true and correct to the best of my knowledge and belief, and that copies of any documents submitted with or in support of this application are true and correct copies of unaltered original documents. I further understand that if I have provided information that is false, intentionally incomplete, or misleading I may be charged with a crime and subjected to fine or imprisonment, or both fine and imprisonment. (Penal Code Section 72)

31. SIGNATURE OF APPLICANT OR AUTHORIZED AGENT\*

32. PRINT OR TYPE NAME

Noel Mondragon

33. TITLE

Supervising Engineer

34. DATE

12/02/2022

**ADA  
Notice**

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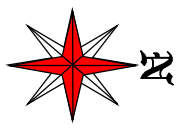


- NOTES:
1. ALL SIGNS SHALL CONFORM TO THE CURRENT CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD).
  2. SIGN SPACING TO BE ADJUSTED BASED ON FIELD CONDITIONS.
  3. TRAFFIC CONTROL ON BAKER BLVD SHALL BE PER CALTRANS 2018 STD PLAN T9 & T13 AND NSSP 12-3-36.
  4. WORKING HOURS FOR CONSTRUCTION ON BAKER BLVD NEAR STATE RIGHT OF WAY SHALL BE LIMITED TO HOURS BETWEEN 7:00 AM TO 4:00 PM MONDAY THROUGH FRIDAY, NO WORKS SHALL BE ALLOWED AT ANYTIME SATURDAY, SUNDAY, AND LEGAL HOLIDAYS.
  5. ALL LANES ON STATE HIGHWAY AND FREEWAY ON/OFF RAMP SHALL REMAIN OPEN AT ALL TIMES.
  6. ADDITIONAL FLAGGERS MAY BE REQUIRED WHEN ROAD WORK IS NEAR THE STATE HIGHWAY OR FREEWAY ON/OFF RAMP. CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLAN TO THE ENGINEER OR APPROVAL.

PERMIT NO: 09-22-N-TK-1131

SAN BERNARDINO COUNTY  
DEPARTMENT OF PUBLIC WORKS

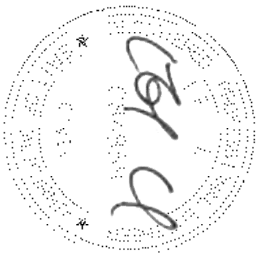
TRAFFIC DIVISION	
BAKER BLVD AND PARK AVE, SH127 ADVANCE WARNING SIGNS W.O. TX1814	DATE: 11/29/2022
DRAWN BY: LL	SHEET: 1 OF 3
SCALE: N.T.S.	YARD: 12
AREA: BAK	



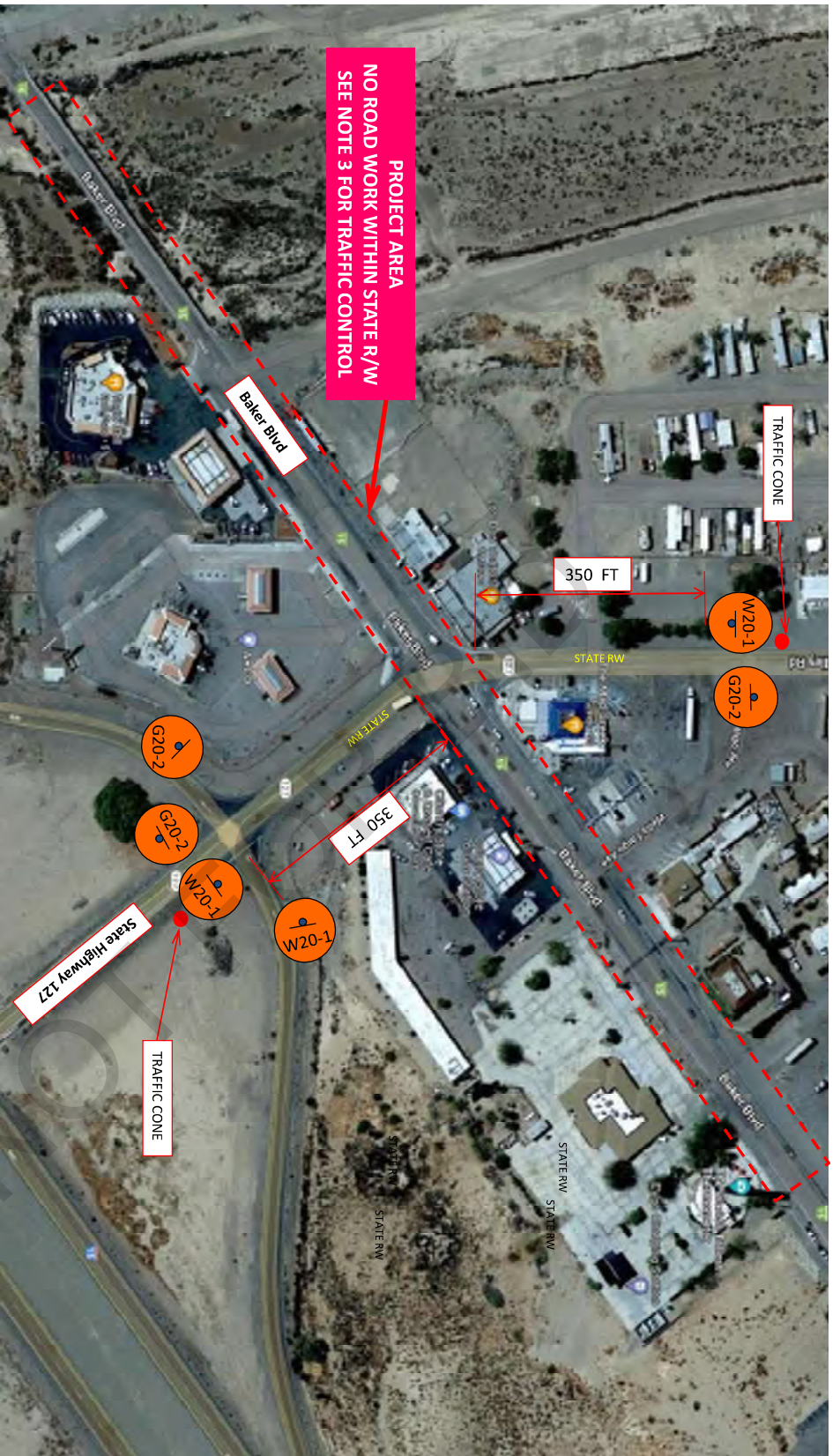
W20-1



G20-2







- NOTES:
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PERMIT NO: 09-22-N-TK-1131

SAN BERNARDINO COUNTY  
DEPARTMENT OF PUBLIC WORKS

TRAFFIC DIVISION

BAKER BLVD AND PARK AVE, SH127 ADVANCE WARNING SIGNS W.O. TK1814	
DRAWN BY: LL	DATE: 11/29/2022
SCALE: N.T.S.	SHEET: 1 OF 3
AREA: BAK	YARD: 12



W20-1

G20-2







W20-1



G20-2



**NOTES:**

1. ALL SIGNS SHALL CONFORM TO THE CURRENT CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD).
2. SIGN SPACING TO BE ADJUSTED BASED ON FIELD CONDITIONS.
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PERMIT NO: 09-22-N-TK-1131

SAN BERNARDINO COUNTY  
DEPARTMENT OF PUBLIC WORKS

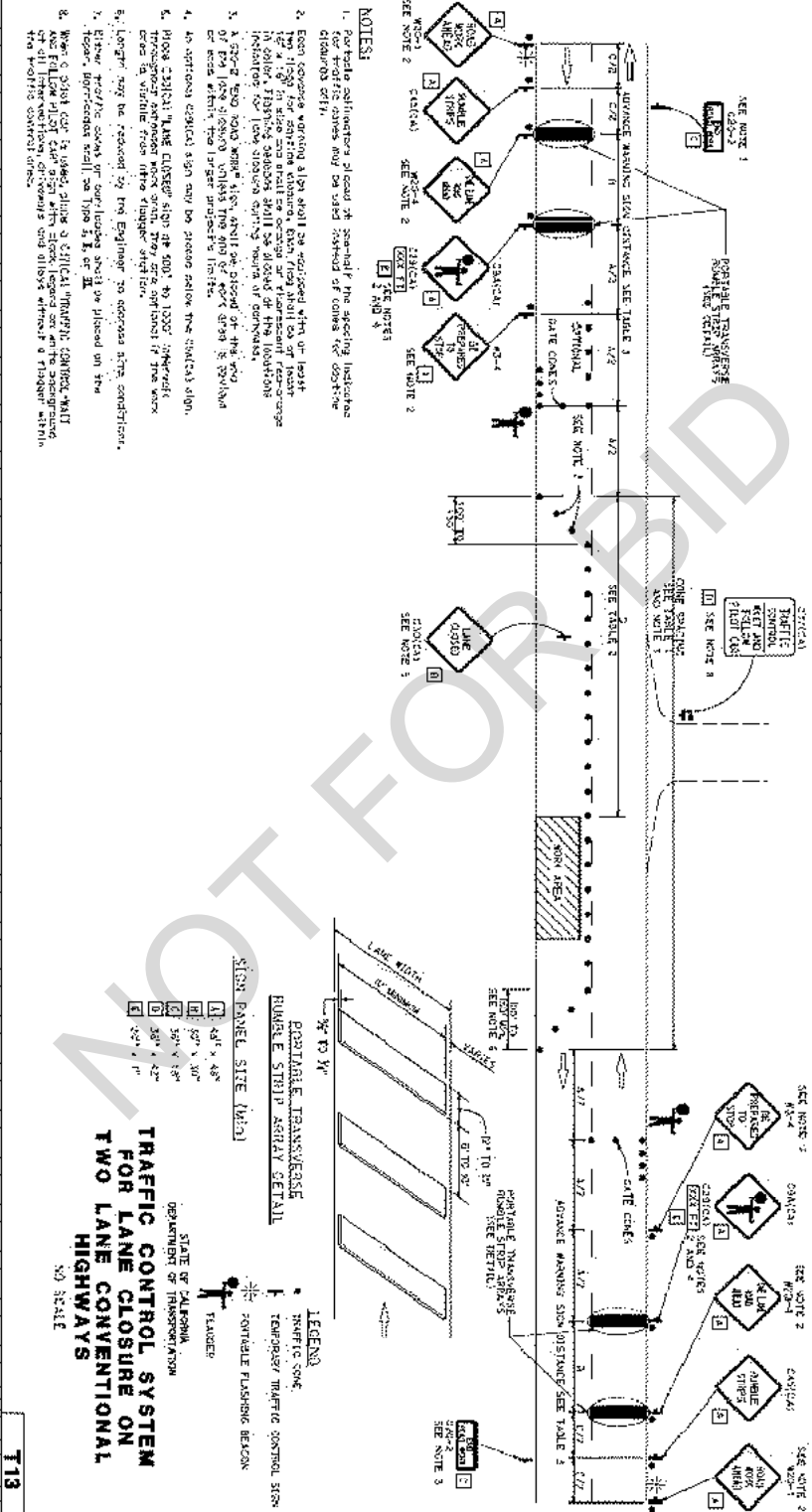
TRAFFIC DIVISION	
DRAWN BY: LL	DATE: 11/29/2022
SCALE: N.T.S.	SHEET: 1 OF 3
AREA: BAK	YARD: 12

BAKER BLVD AND PARK AVE,  
SH127 ADVANCE WARNING SIGNS  
W.O. TX1814

Drawn	Scale	Date	Sheet
Checked			
Designed			
Reviewed			
Approved			

**NOTES:**  
 See Standard Plan T13 for notes.  
 Use close spacing & top taper segment for taper segment of 1 for concrete structures, as described, per Form 1, unless 2, 4, or 2 code provided for taper to person to continuously maintain front's control device for lane closures.

**TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL**



**NOTES:**  
 1. Portable signposts placed at least 10 ft from the leading indicator closure of the sign.  
 2. Signs to be used on work zones should be used at least 10 ft from the leading indicator closure of the sign.  
 3. Signs to be used on work zones should be used at least 10 ft from the leading indicator closure of the sign.  
 4. Signs to be used on work zones should be used at least 10 ft from the leading indicator closure of the sign.  
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 8. Signs to be used on work zones should be used at least 10 ft from the leading indicator closure of the sign.  
 9. Signs to be used on work zones should be used at least 10 ft from the leading indicator closure of the sign.  
 10. Signs to be used on work zones should be used at least 10 ft from the leading indicator closure of the sign.

**TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS**  
 STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
 SIGN PANEL SIZE (WxH)  
 1. 48" x 48"  
 2. 48" x 30"  
 3. 30" x 48"  
 4. 30" x 30"  
 5. 30" x 30"




DATE	DATE	DATE	DATE
TIME	TIME	TIME	TIME
			
STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS			
PROJECT NO. 1000 CONTRACT NO. 1000 SHEET NO. 1000			

TABLE 1

**TARGET LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING**

SPEED mph	UNIFORM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (M)				HANDICAPPED SERVICE SPACES			
	L	L/2	L/3	L/4	3	4	5	6
15	14	7	4.7	3.5	14	14	14	14
20	18.5	9.25	6.17	4.63	18.5	18.5	18.5	18.5
25	23	11.5	7.67	5.75	23	23	23	23
30	27.5	13.75	9.17	6.88	27.5	27.5	27.5	27.5
35	32	16	10.67	8	32	32	32	32
40	36.5	18.25	12.17	9.13	36.5	36.5	36.5	36.5
45	41	20.5	13.67	10.25	41	41	41	41
50	45.5	22.75	15.17	11.38	45.5	45.5	45.5	45.5
55	50	25	16.67	12.5	50	50	50	50
60	54.5	27.25	18.17	13.63	54.5	54.5	54.5	54.5
65	59	29.5	19.67	14.75	59	59	59	59
70	63.5	31.75	21.17	15.88	63.5	63.5	63.5	63.5
75	68	34	22.67	17	68	68	68	68

\* - For other offsets, use the following adjusting taper length formula for L:  
 For speed of 45 mph or less, L = a \* 1.25  
 For speed of 45 mph or more, L = a \* 1.5  
 where L = Taper length in feet  
 a = width of offset in feet  
 5 = posted speed limit, alternate speed limit, or the maximum speed prior to work starting or the maximum operating speed in mph  
 \*\* - Use for taper and tangent sections when there are no pavement markings or there are 1 or 2 center or edge white markings and no pavement markings (15)

TABLE 2

**LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING**

SPEED * mph	SCHEDULE WIND ***		
	-20	-15	-10
20	14.5	11.8	12.0
25	18.5	14.5	15.0
30	22.5	17.5	18.0
35	26.5	20.5	21.0
40	30.5	23.5	24.0
45	34.5	26.5	27.0
50	38.5	29.5	30.0
55	42.5	32.5	33.0
60	46.5	35.5	36.0
65	50.5	38.5	39.0
70	54.5	41.5	42.0
75	58.5	44.5	45.0

\* - Speed in posted speed limit, or 20 mph or more for 15 mph or less posted speed limit in zone  
 \*\* - Longitudinal buffer space or flagger station spacing  
 \*\*\* - Use 20 mph scheduled response time for 1 person and longer than 1 min

TABLE 3

**ADVANCE WARNING SIGN SPACING**

ROAD TYPE	DISTANCE BETWEEN SIGNS *		
	A	B	C
URBAN - 25 MPH OR LESS	150	100	125
URBAN - MORE THAN 25 MPH TO 40 MPH	200	150	175
URBAN - MORE THAN 40 MPH	250	200	225
RURAL - 25 MPH OR LESS	100	75	100
RURAL - MORE THAN 25 MPH TO 40 MPH	150	100	125
RURAL - MORE THAN 40 MPH	200	150	175

\* - The distances are approximate, and should be rounded for judgment purposes only, and should be modified with engineering judgment, conditions, or restrictions by the designer or detailing the recommended distances.

**TRAFFIC CONTROL SYSTEM TABLES**  
**FOR LANE AND RAMP CLOSURES**  
 STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
 NO SCALE

## CALTRANS NSSP 12-3.36

Replace Reserved in section 12-3.36 with:

### 12-3.36A General

#### 12-3.36A(1) Summary

Section 12-3.36 includes specifications for placing portable transverse rumble strips.

#### 12-3.36A(2) Definitions

Not Used

#### 12-3.36A(3) Submittals

Submit a copy of the manufacturer's instructions.

#### 12-3.36A(4) Quality Assurance

Not Used

#### 12-3.36B Materials

The strip must be either the RoadQuake 2 or the RoadQuake 2F Folding Temporary Portable Rumble Strip manufactured by Plastic Safety Systems, Inc. For information on obtaining the rumble strips, contact:

CUSTOMER SERVICE  
PLASTIC SAFETY SYSTEMS, INC.  
2444 BALDWIN RD  
CLEVELAND, OH 44104

Telephone no.: (800) 662-6338 or (216) 231-8990

#### 12-3.36C Construction

Place portable transverse rumble strips before closing the lane to traffic.

The color of the portable transverse rumble strips must be black or orange. Use 2 arrays and, each array must consist of 3 rumble strips.

Portable transverse rumble strips must not be placed:

1. On sharp horizontal or vertical curves
2. Through pedestrian crossings

If the portable transverse rumble strips become out of alignment or skewed by more than 6 inches, measured from one end to the other, readjust to bring the placement back to the original location.

Portable transverse rumble strips are not required if any of the following conditions is met:

1. Work duration occupies a location for 4 hours or less.
2. Posted speed limit is below 45 mph.
3. Work is of emergency nature.
4. Work zone is in snow or icy weather conditions.

For a RoadQuake 2 rumble strip, securely connect the 3 sections under the manufacturer's instructions before placing them in the traffic lane.

Remove all portable transverse rumble strips and warning signs before opening the lane to traffic.

If the Engineer determines that the portable transverse rumble strips no longer provide audible and vibratory alerts, replace them.

#### 12-3.36D Payment

Not Used



## APPLICANT'S CHECKLIST TO DETERMINE APPLICABLE REVIEW PROCESS

No.	Scope	True	False
1	Project has an approved environmental document (CE, ND, EIR, EIS, etc.) or project is CE by CEQA and/or NEPA and has completed studies or public outreach.	✓	
2	Project design and submittal is complete (at 100%) and the EPAP includes all required supporting documents, reports, etc.	✓	
3	Project doesn't involve any ROW conveyances (e.g., dedications, relinquishments, modifications to ROW limits, etc.).	✓	
4	Project doesn't propose constructing new structures (e.g., earth retaining structures such as retaining walls, tie backs, soil nails, sound walls, culverts, etc.) that are not per Caltrans Standard Plans.	✓	
5	Project doesn't propose conduits greater than 60" in diameter to be installed by trenchless methods or tunneling (diameter 30" and above) with depth of cover less than 15 feet.	✓	
6	Project doesn't propose high priority utilities, liquid and gas carrier pipes on or through bridges/structures.	✓	
7	Project doesn't propose structural modifications of Caltrans structures (certain superficial attachments are not considered structural modifications).	✓	
8	Project doesn't propose new permanent stormwater treatment facilities, create 5000 sq. ft. or more of new non-highway impervious surface or create 1 acre or more of newer highway impervious surface.	✓	
9	Project is not proposed in known slip/slide prone areas and proposed work will not adversely impact geological stability.	✓	
10	Project doesn't require agreements to be executed with Caltrans, or, an agreement is required but Caltrans standard templates can be used (e.g., maintenance, lease, Joint Use Agreements, etc.).	✓	
11	Project doesn't propose non-standard roadway design features (lane widths, super elevation, etc.) requiring a Design Standard Decision Document (Not applicable to utility-only projects).	✓	
12	Project doesn't require CTC action for other than funding approval (e.g., relinquishments, new public road connections, etc.).	✓	
13	Project doesn't propose new sound walls on bridges or modifications to existing sound walls on bridges.	✓	
14	Project doesn't propose increasing highway capacity or converting operational nature of highway lanes (e.g. converting to HOT or Toll lanes, etc.).	✓	
15	Project's total construction costs within the existing or future State highway right-of-way is \$1 million or less. (Not applicable to utility-only projects)	✓	

I hereby certify that the above information provided related to this project is true and correct to the best of my knowledge and belief. I further understand and agree that if information contrary to aforementioned table at any stage during the Caltrans review process or if the project scope changes the results of any of the above elements, project may have to be managed through a different Caltrans Review Process and may be subject to delays, revisions, or denials.

Noel Mondragon

12/01/2022

Name of Applicant

Signature of applicant

Date

05/12/2020



*Standard and Special Drawings  
(Green Pages)*

*inserted here*

# **LIST OF STANDARD AND SPECIAL DRAWINGS (GREEN PAGES)**

## **NOTICE TO RESIDENTS (ENGLISH / SPANISH) SIGNING AND STRIPING PLAN**

### **COUNTY STANDARDS AND SPECIAL DRAWINGS**

303            303(a)            303(b)            305    305(a)

### **2018 CALTRANS STANDARD PLANS**

A20A	RSP ES-1A
A20B	RSP ES-1B
A20C	RSP ES-1C
A20D	ES-2C
A24A	RSP ES-2E
A24C	ES-3B
A24D	ES-4E
A24E	RSP ES-5C
A24F	RSP ES-7A
A88A	RSP ES-7N
T9	ES-7P
T10	ES-7R
T11	RSP ES-8A
T13	RSP ES-8B

### **CALIFORNIA 2014 MUTCD**

Figure 2A-2(CA)  
Figure 2C-13(CA)  
Figure 3B-102(CA)  
Figure 6H-28  
Figure 6H-29  
Section 6D.01  
Section 6D.02

NOT FOR BID



## **NOTICE TO THE RESIDENTS OF Baker Boulevard and Park Avenue**

The County of San Bernardino Department of Public Works has contracted with (Company name) for the (type of work) of (name of road) in the (city) area. The construction shall include (detailed description of work).

This work will be performed between the dates of (start date) and (end date).

Normal working hours will be between the hours of \_\_\_\_\_ A.M. and \_\_\_\_\_ P.M. Monday through Friday.

There will be "No Parking Signs" posted on your street indicating the specific dates work will be performed on the street. During the time we are working, access to the public will be limited and we ask the following:

1. Do not park your vehicles on the roadway
2. Do not allow water to run on the roadway
3. Do not allow children to play in the roadway
4. Do not place trash cans or other debris on the roadway

We regret any inconvenience that this work may cause you and we thank you for your cooperation in assisting us in rebuilding your street.

**Thank you.**

**(Company name)**

**(Company contact name)**

**(Company phone number)**

**If you need further assistance contact the Department of Public Works at (909) 387-7920**



## NOTIFICACIÓN A LOS RESIDENTES DE Baker Boulevard and Park Avenue

El Condado de San Bernardino, Departamento de Obras Públicas, a contratado con (Company name) para (type of work) la calle llamada (name of road) en la ciudad de (city). La construcción va a incluir (detailed description of work).

Este trabajo será hecho entre la fecha de (start date) y (end date). Las horas elegidas para hacer este trabajo serán entre las \_\_\_\_\_ de la mañana y \_\_\_\_\_ de la tarde de lunes a viernes.

Habrá letreros indicando que “No Habrá Estacionamiento” en la calle y especificando el horario cuando el trabajo será hecho. Durante el tiempo que estaremos trabajando en la calle, la entrada para el público será limitada y por esta razón pedimos lo siguiente:

1. No estacionen sus vehículos en la calle.
2. No permita que corre el agua hacia la calle.
3. No permita que los niños jueguen en la calle.
4. No ponga los botes de basura o cualquier otra basura en la calle.

Lamentamos la inconveniencia que causara este trabajo y les agradecemos por su cooperación y asistencia en el mejoramiento de su calle.

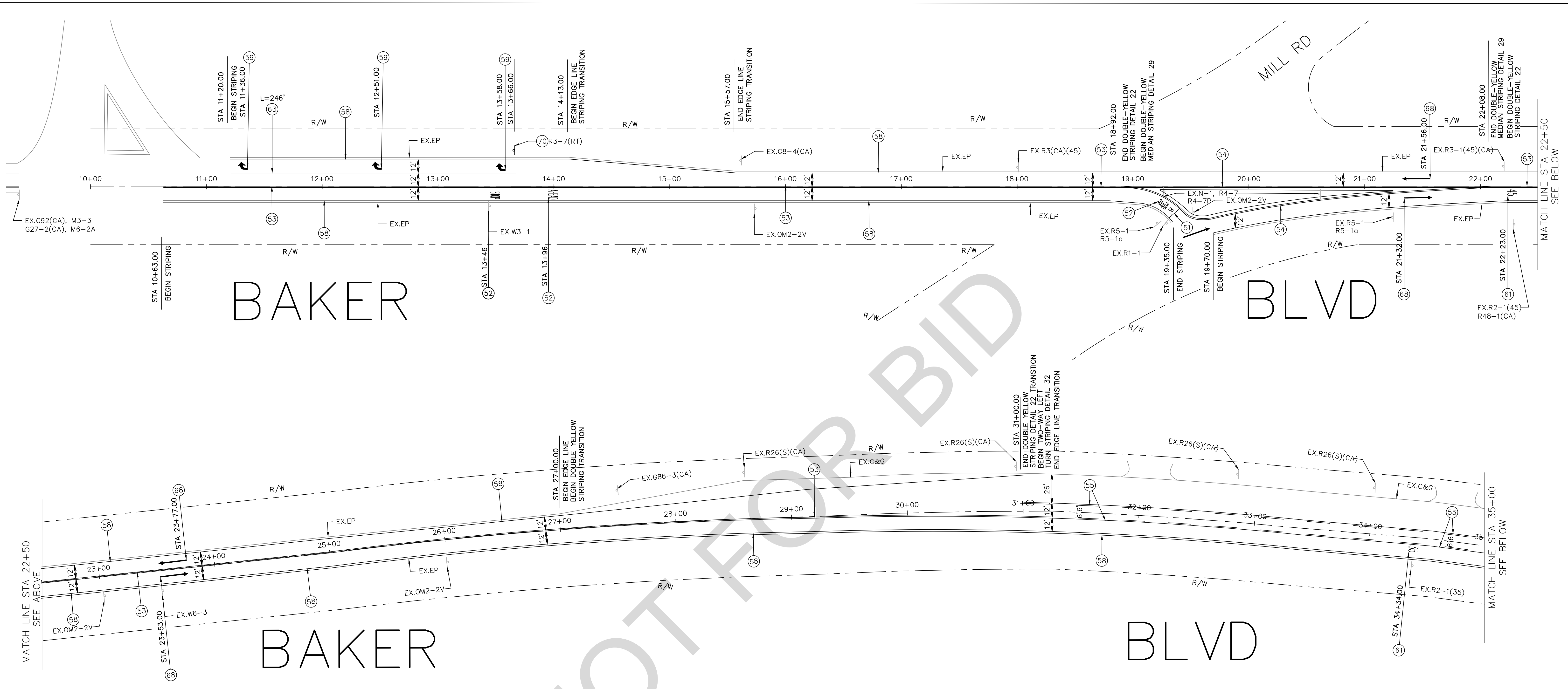
**Muchas Gracias.**

**(Company name)**

**(Company contact name)**

**(Company phone number)**

**Si necesita asistencia favor de hablar al Departamento de Obras Publicas, (909) 387-7920.**

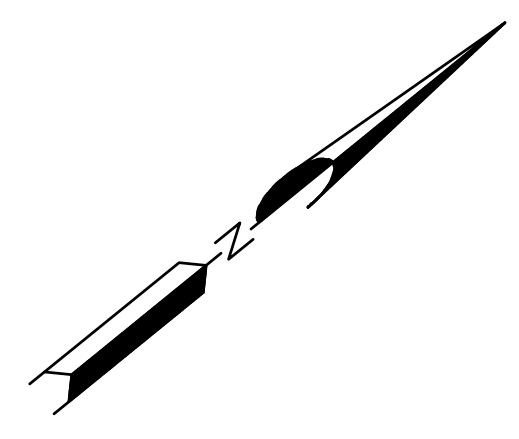
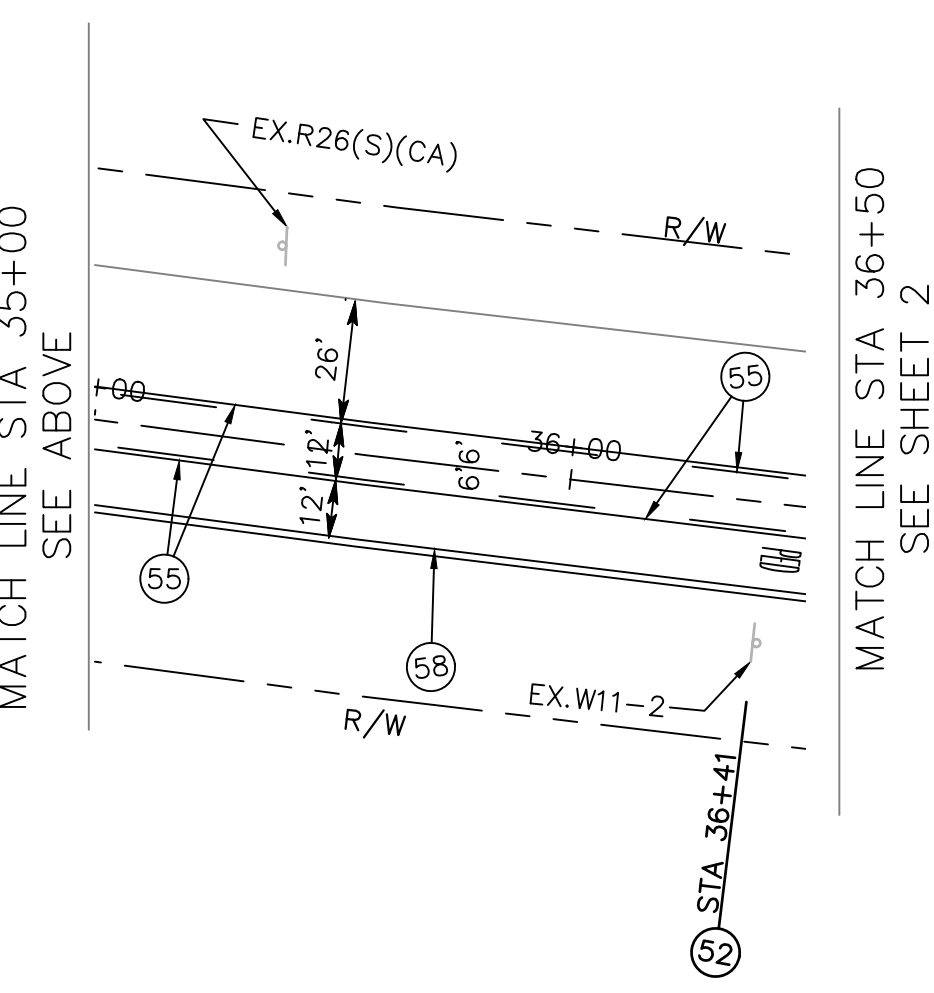


NOT FOR BID

**TRAFFIC SIGNING AND STRIPING NOTES:**

- ⑤0 ALL EXISTING SIGN(S), OBJECT MARKER(S) AND PAVEMENT MARKER(S) TO BE PROTECTED IN PLACE UNLESS OTHERWISE SPECIFIED
- ⑤1 PAINT 12-INCH WIDE, SOLID WHITE LIMIT LINE PER CALTRANS 2018 STANDARD PLAN A24E
- ⑤2 PAINT WHITE PAVEMENT MARKING PER CALTRANS 2018 STANDARD PLAN A24D AND AS SHOWN ON PLAN
- ⑤3 PAINT 6-INCH WIDE, DOUBLE YELLOW STRIPE PER CALTRANS 2018 STANDARD PLAN A20A, DETAIL 22
- ⑤4 PAINT DOUBLE 6-INCH YELLOW MEDIAN STRIPE PER CALTRANS 2018 STANDARD PLAN, DETAIL 29
- ⑤5 PAINT 6-INCH WIDE, TWO-WAY YELLOW LEFT TURN LANE STRIPE PER CALTRANS 2018 STANDARD PLAN A20B, DETAIL 32
- ⑤8 PAINT 6-INCH WIDE, WHITE EDGE LINE STRIPE PER CALTRANS 2018 STANDARD PLAN A20B, DETAIL 27B
- ⑤9 PAINT TYPE IV ARROW PAVEMENT MARKING PER CALTRANS 2018 STANDARD PLAN A24A AND AS SHOWN ON PLAN
- ⑥1 PAINT SPEED LIMIT NUMERAL PAVEMENT MARKING PER CALTRANS 2018 STANDARD PLAN A24C AND AS SHOWN ON PLAN
- ⑥3 PAINT 8-INCH WIDE, SOLID WHITE CHANNELIZING LINE PER CALTRANS 2018 STANDARD PLAN A20D, DETAIL 3B
- ⑥8 PAINT TYPE V ARROW PAVEMENT MARKING PER CALTRANS 2018 STANDARD PLAN A24A AND AS SHOWN ON PLAN
- ⑦0 INSTALL NEW SIGN(S) AS SHOWN ON PLAN AND PER THE CALIFORNIA MUTCD 2014 FIGURES 2A-2(CA) AND 2A-3

REFER TO SHEET 6  
FOR TRAFFIC CONTROL  
GENERAL NOTES

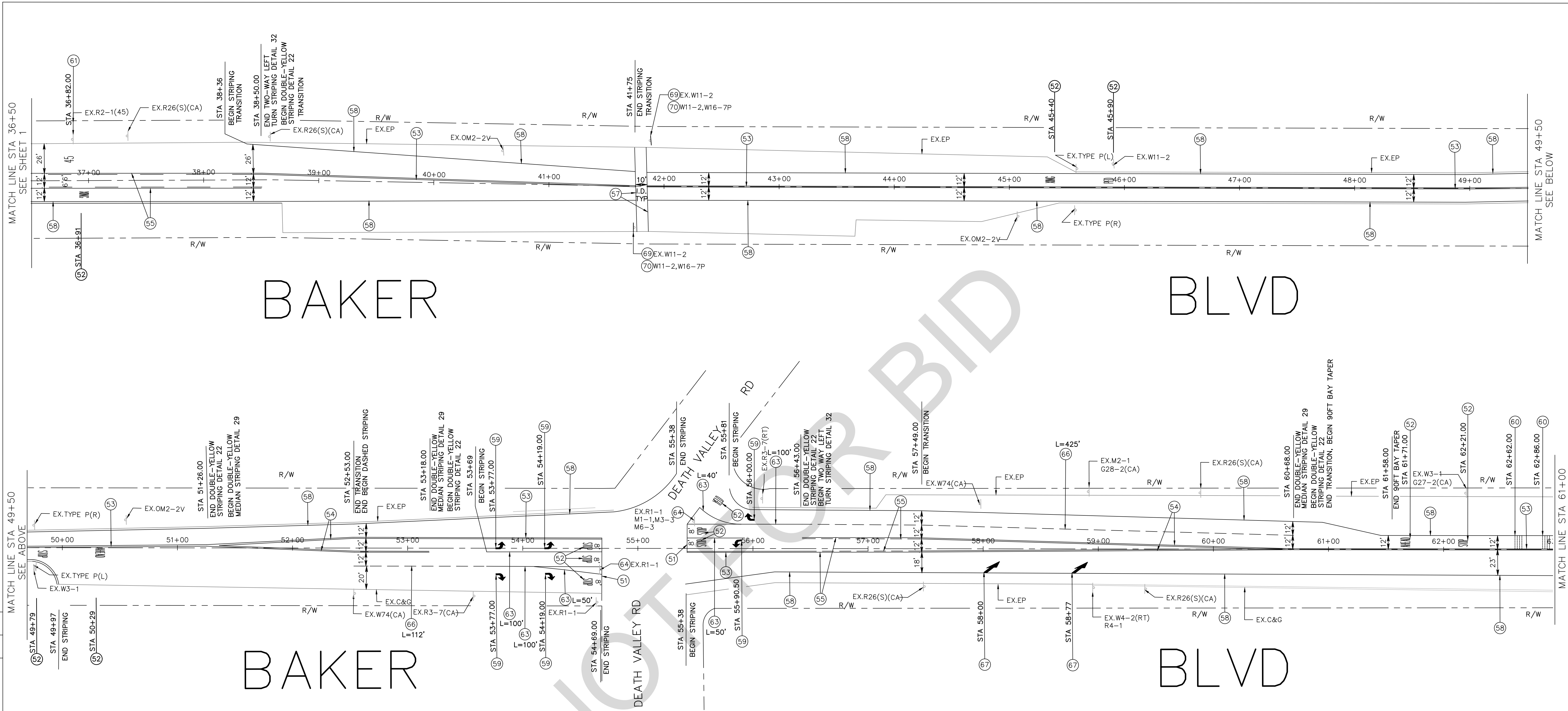


NOT TO SCALE

STATIONING ON PLANS APPROXIMATES DISTANCES AND MEASUREMENTS FROM COUNTY TCD DATABASE. REFER TO SPECIAL PROVISIONS ORDER OF WORK AND PAINT TRAFFIC STRIPES AND MARKINGS SECTIONS FOR SPECIFICATIONS RELATED TO STRIPING AND MARKINGS

MARK	CHANGES	RESIDENT ENGINEER	DATE

BAKER BLVD AND PARK AVE TRAFFIC SIGNING AND STRIPING PLAN FROM STA 10+00 TO STA 36+50 BAKER AREA				
J.L. REF.	W.O. NO. TX1814	PLAN SCALE N/A	SHT. NO. 1	TOT. SHT'S. 6
FIELD CHANGES				

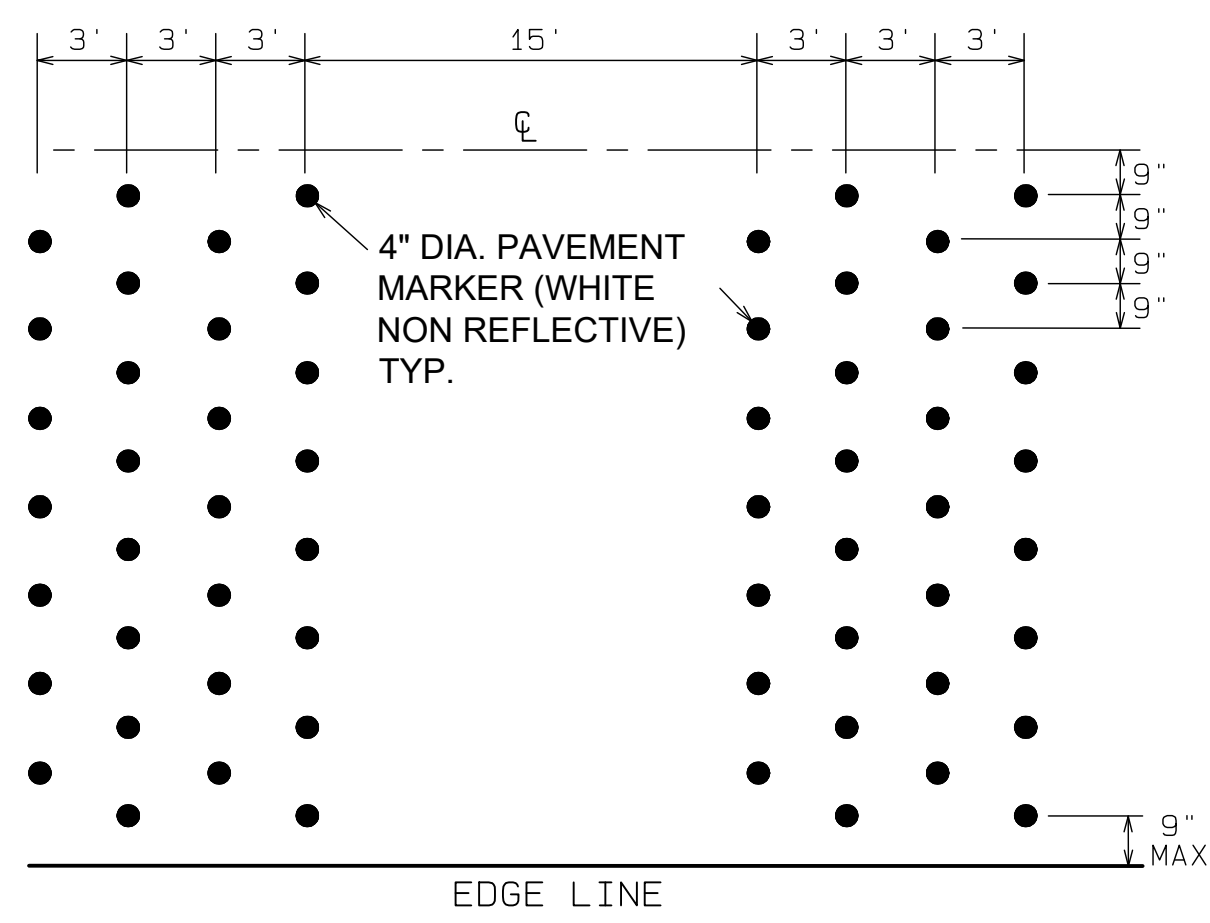


BAKER

BLVD

BAKER

BLVD



DETAIL A-RUMBLE STRIP

NOT TO SCALE  
 STATIONING ON PLANS APPROXIMATES DISTANCES AND MEASUREMENTS FROM COUNTY TCD DATABASE, REFER TO SPECIAL PROVISIONS ORDER OF WORK AND PAINT TRAFFIC STRIPES AND MARKINGS SECTIONS FOR SPECIFICATIONS RELATED TO STRIPING AND MARKINGS

TRAFFIC SIGNING AND STRIPING NOTES:

- (51) PAINT 12-INCH WIDE, SOLID WHITE LIMIT LINE PER CALTRANS 2018 STANDARD PLAN A24E
- (52) PAINT WHITE PAVEMENT MARKING PER CALTRANS 2018 STANDARD PLAN A24D AS SHOWN ON PLAN
- (53) PAINT DOUBLE YELLOW STRIPE PER CALTRANS 2018 STANDARD PLAN A20A, DETAIL 22
- (54) PAINT DOUBLE 6-INCH YELLOW MEDIAN STRIPE PER CALTRANS 2018 STANDARD PLAN A20B, DETAIL 29
- (55) PAINT 6-INCH WIDE, TWO-WAY YELLOW LEFT TURN REFLECTIVE STRIPE PER CALTRANS 2018 STANDARD PLAN A20B, DETAIL 32
- (57) PAINT 12-INCH WIDE, SOLID WHITE CROSSWALK (BASIC) PER CALTRANS 2018 STANDARD PLAN A24F
- (58) PAINT 6-INCH WIDE, WHITE EDGELINE STRIPE PER CALTRANS 2018 STANDARD PLAN A20B, DETAIL 27B
- (59) PAINT TYPE IV ARROW PAVEMENT MARKING PER CALTRANS 2018 STANDARD PLAN A24A
- (60) REINSTALL TRANSVERSE RUMBLE STRIP CONSISTING OF 4-INCH DIAMETER WHITE NON REFLECTIVE PAVEMENT MARKERS, REFER TO DETAIL A
- (61) PAINT SPEED LIMIT NUMERICAL PAVEMENT MARKING PER CALTRANS 2018 STANDARD PLAN A24C
- (63) PAINT 8-INCH WIDE, SOLID WHITE CHANNELIZING LINE PER CALTRANS 2018 STANDARD PLAN A20D, DETAIL 38
- (64) RESET EXISTING SIGN AS SHOWN ON PLAN PER THE CALIFORNIA MUTCD 2014 FIGURES 2A-2(CA) AND 2A-3(CA)
- (66) PAINT 8-INCH WIDE, DASHED WHITE LANE DROP LINE PER CALTRANS 2018 STANDARD PLAN A20D, DETAIL 37B
- (67) PAINT TYPE VI ARROW PER CALTRANS 2018 STANDARD PLAN A24A
- (69) REMOVE ROADSIDE SIGN AS SHOWN ON PLAN
- (70) INSTALL NEW SIGN(S) AS SHOWN ON PLAN AND PER THE CALIFORNIA MUTCD 2014 FIGURES 2A-2(CA) AND 2A-3

REFER TO SHEET 6 FOR TRAFFIC CONTROL GENERAL NOTES

REVISIONS	DATE	APPR.	DATE

MARK		CHANGES	RESIDENT ENGINEER	DATE

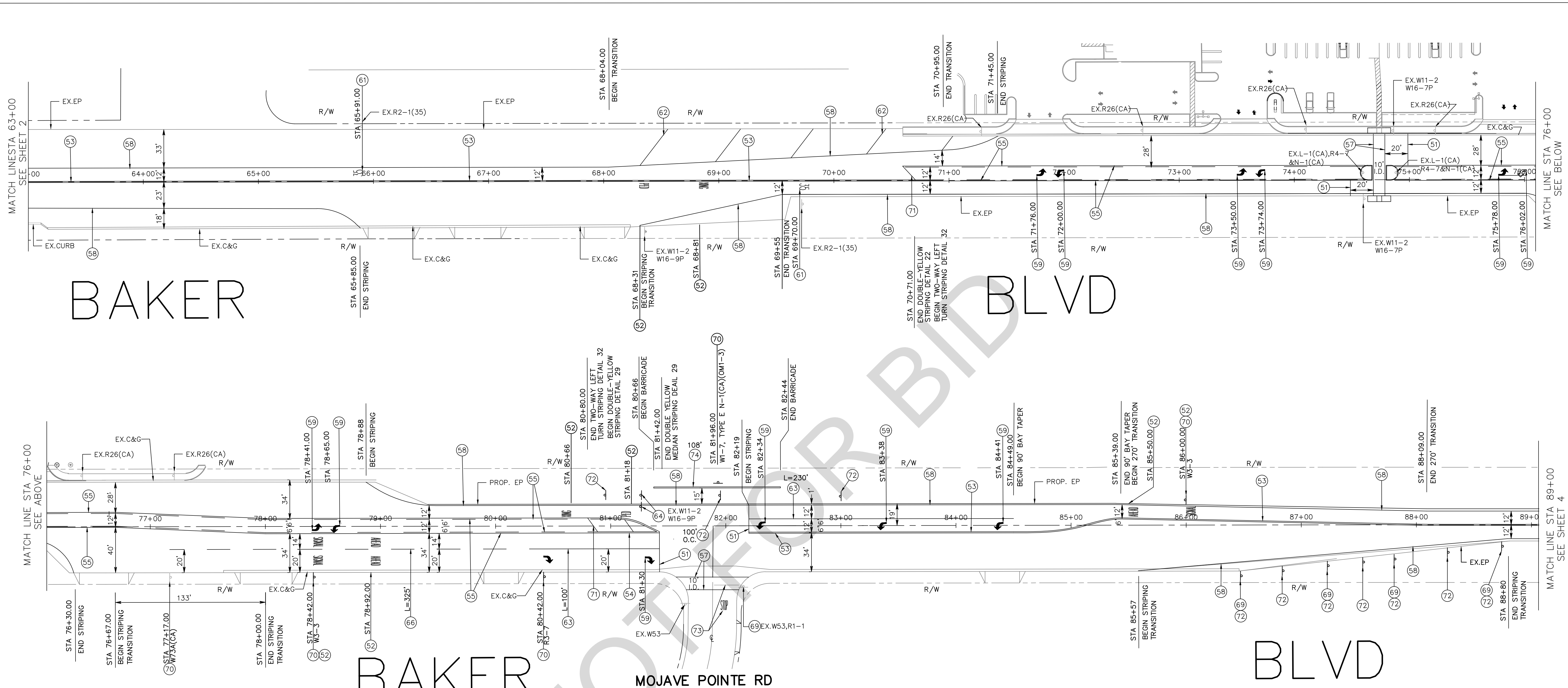
  

JL. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
	TX1814	N/A	2	6

BAKER BLVD AND PARK AVE  
 TRAFFIC SIGNING AND STRIPING PLAN  
 FROM STA 36+50 TO STA 61+00  
 BAKER AREA

FIELD CHANGES





BAKER

BLVD

BAKER

MOJAVE POINTE RD

BLVD

TRAFFIC SIGNING AND STRIPING NOTES:

- 51 PAINT 12-INCH WIDE, SOLID WHITE LIMIT LINE PER CALTRANS 2018 STANDARD PLAN A24E
- 52 PAINT WHITE PAVEMENT MARKING PER CALTRANS 2018 STANDARD PLAN A24D AS SHOWN ON PLAN
- 53 PAINT DOUBLE 6-INCH WIDE, YELLOW STRIPE PER CALTRANS 2018 STANDARD PLAN A20A, DETAIL 22
- 54 PAINT DOUBLE 6-INCH YELLOW MEDIAN STRIPE PER CALTRANS 2018 STANDARD PLAN A20B, DETAIL 29
- 55 PAINT 6-INCH WIDE, TWO-WAY YELLOW LEFT TURN REFLECTIVE STRIPE PER CALTRANS 2018 STANDARD PLAN A20B, DETAIL 32
- 57 PAINT 12-INCH WIDE, SOLID WHITE CROSSWALK (BASIC) PER CALTRANS 2018 STANDARD PLAN A24F
- 58 PAINT 6-INCH WIDE, WHITE EDGELINE STRIPE PER CALTRANS 2018 STANDARD PLAN A20B, DETAIL 27B
- 59 PAINT TYPE IV ARROW PAVEMENT MARKING PER CALTRANS 2018 STANDARD PLAN A24A
- 61 PAINT SPEED LIMIT NUMERAL PAVEMENT MARKING PER CALTRANS 2018 STANDARD PLAN A24C
- 62 APPLY 12-INCH WIDE, WHITE DIAGONAL CROSS HATCHING STRIPE PER CA MUTCD 2014, SECTION 3B.24
- 63 PAINT 8-INCH WIDE, SOLID WHITE CHANNELIZING LINE PER CALTRANS 2018 STANDARD PLAN A20D, DETAIL 38
- 64 RESET EXISTING SIGN AS SHOWN ON PLAN PER THE CALIFORNIA MUTCD 2014 FIGURES 2A-2(CA) AND 2A-3(CA)
- 66 PAINT 8-INCH WIDE, DASHED WHITE LANE DROP LINE PER CALTRANS 2018 STANDARD PLAN A20D, DETAIL 37B
- 69 REMOVE ROADSIDE SIGN OR OBJECT MARKER AS SHOWN ON PLAN
- 70 INSTALL NEW SIGN(S) AS SHOWN ON PLAN AND PER THE CALIFORNIA MUTCD 2014 FIGURES 2A-2(CA) AND 2A-3
- 71 PAINT 12-INCH WIDE, YELLOW DIAGONAL CROSS HATCHING PER CA MUTCD 2014, SECTION 3B.24
- 72 INSTALL CA TYPE L-1(CA)(OM2-2V) OBJECT MARKER PER THE CA MUTCD 2014, FIG 2C-13(CA)
- 73 REMOVE EXISTING PAVEMENT MARKINGS AS SHOWN ON PLAN
- 74 FURNISH AND INSTALL BARRICADE PER COUNTY STANDARD 305

REFER TO SHEET 6 FOR TRAFFIC CONTROL GENERAL NOTES

NOT TO SCALE

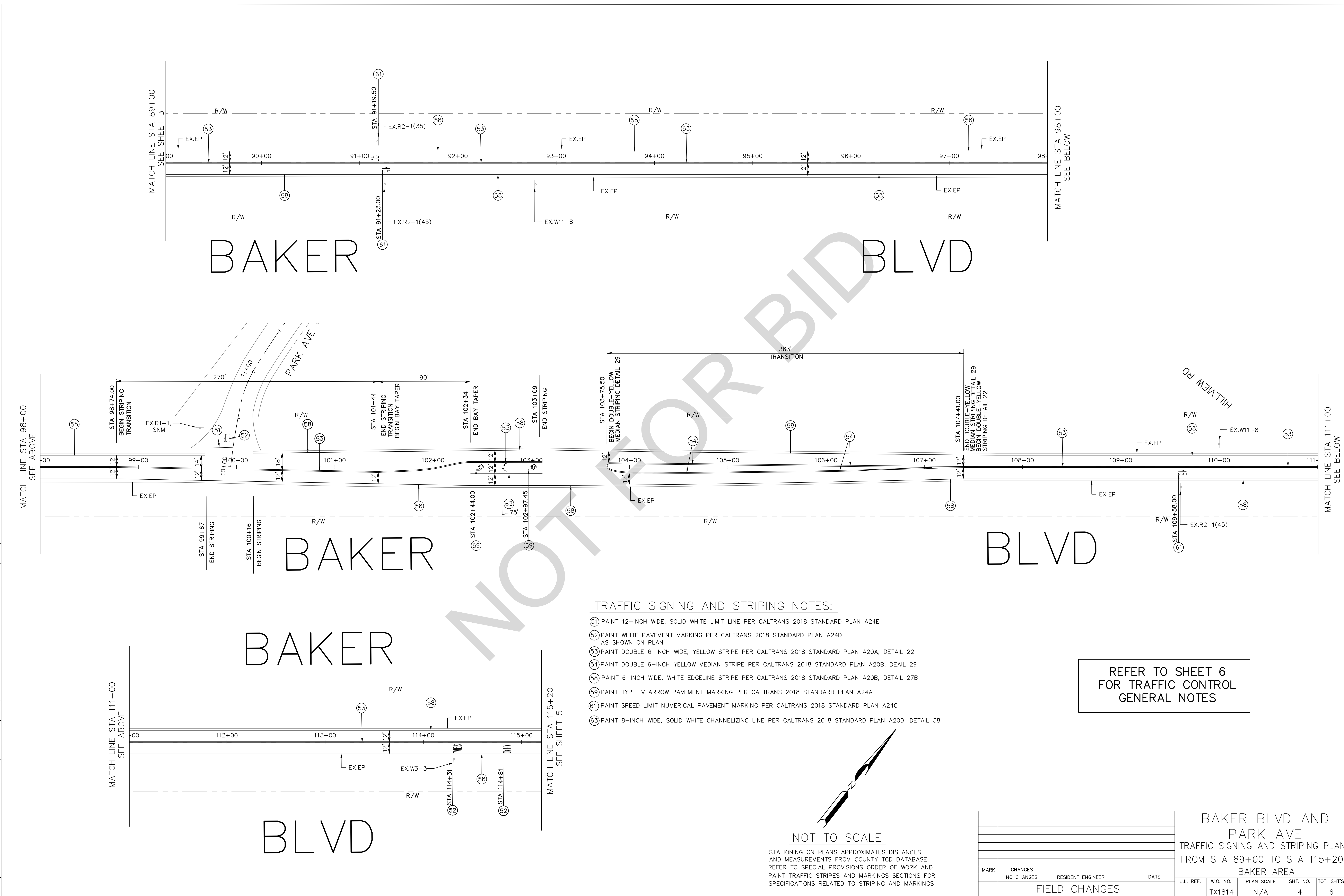
STATIONING ON PLANS APPROXIMATES DISTANCES AND MEASUREMENTS FROM COUNTY TCD DATABASE, REFER TO SPECIAL PROVISIONS ORDER OF WORK AND PAINT TRAFFIC STRIPES AND MARKINGS SECTIONS FOR SPECIFICATIONS RELATED TO STRIPING AND MARKINGS

MARK		CHANGES	RESIDENT ENGINEER	DATE
		NO CHANGES		
FIELD CHANGES				
J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
	TX1814	N/A	3	6

BAKER BLVD AND PARK AVE TRAFFIC SIGNING AND STRIPING PLAN FROM STA 61+00 TO STA 89+00 BAKER AREA

MARK	REVISIONS	APPR.	DATE

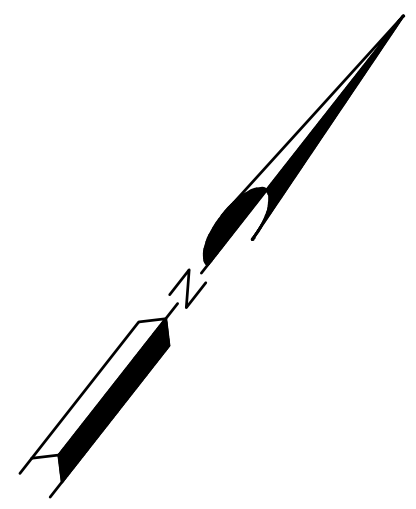
MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		



**TRAFFIC SIGNING AND STRIPING NOTES:**

- ⑤1 PAINT 12-INCH WIDE, SOLID WHITE LIMIT LINE PER CALTRANS 2018 STANDARD PLAN A24E
- ⑤2 PAINT WHITE PAVEMENT MARKING PER CALTRANS 2018 STANDARD PLAN A24D AS SHOWN ON PLAN
- ⑤3 PAINT DOUBLE 6-INCH WIDE, YELLOW STRIPE PER CALTRANS 2018 STANDARD PLAN A20A, DETAIL 22
- ⑤4 PAINT DOUBLE 6-INCH YELLOW MEDIAN STRIPE PER CALTRANS 2018 STANDARD PLAN A20B, DETAIL 29
- ⑤8 PAINT 6-INCH WIDE, WHITE EDGELINE STRIPE PER CALTRANS 2018 STANDARD PLAN A20B, DETAIL 27B
- ⑤9 PAINT TYPE IV ARROW PAVEMENT MARKING PER CALTRANS 2018 STANDARD PLAN A24A
- ⑥1 PAINT SPEED LIMIT NUMERICAL PAVEMENT MARKING PER CALTRANS 2018 STANDARD PLAN A24C
- ⑥3 PAINT 8-INCH WIDE, SOLID WHITE CHANNELIZING LINE PER CALTRANS 2018 STANDARD PLAN A20D, DETAIL 38

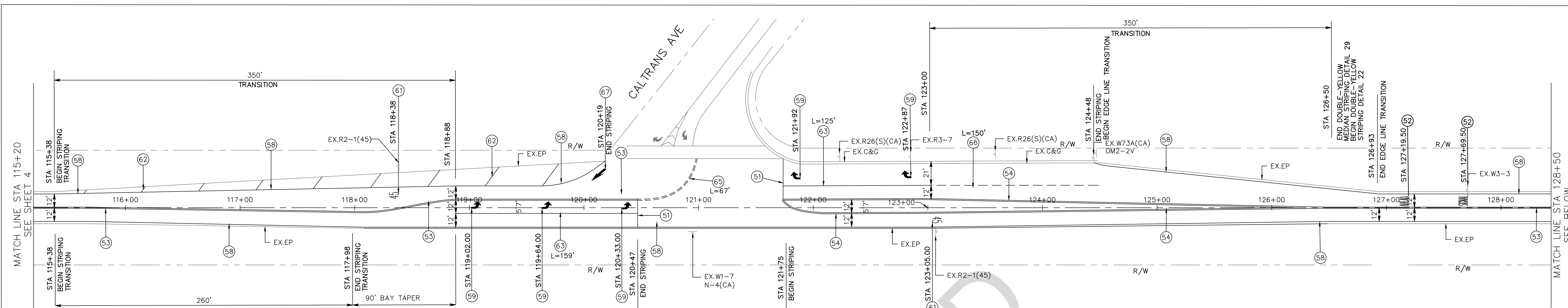
REFER TO SHEET 6 FOR TRAFFIC CONTROL GENERAL NOTES



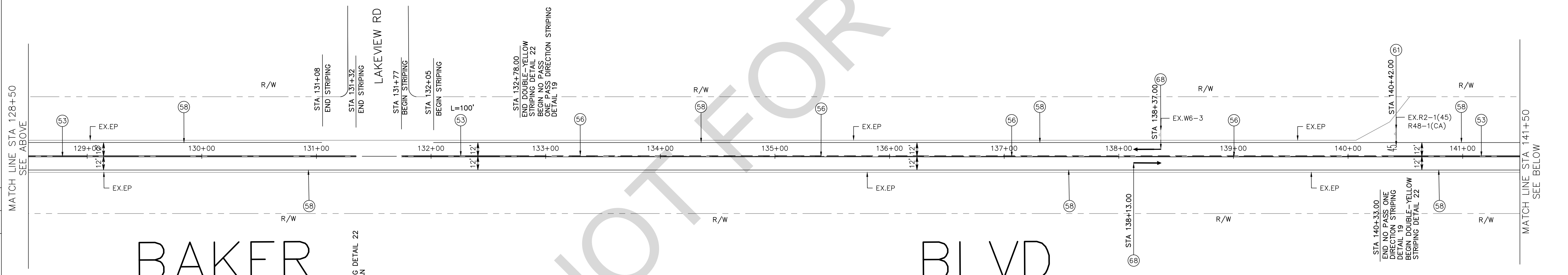
NOT TO SCALE

STATIONING ON PLANS APPROXIMATES DISTANCES AND MEASUREMENTS FROM COUNTY TCD DATABASE. REFER TO SPECIAL PROVISIONS ORDER OF WORK AND PAINT TRAFFIC STRIPES AND MARKINGS SECTIONS FOR SPECIFICATIONS RELATED TO STRIPING AND MARKINGS

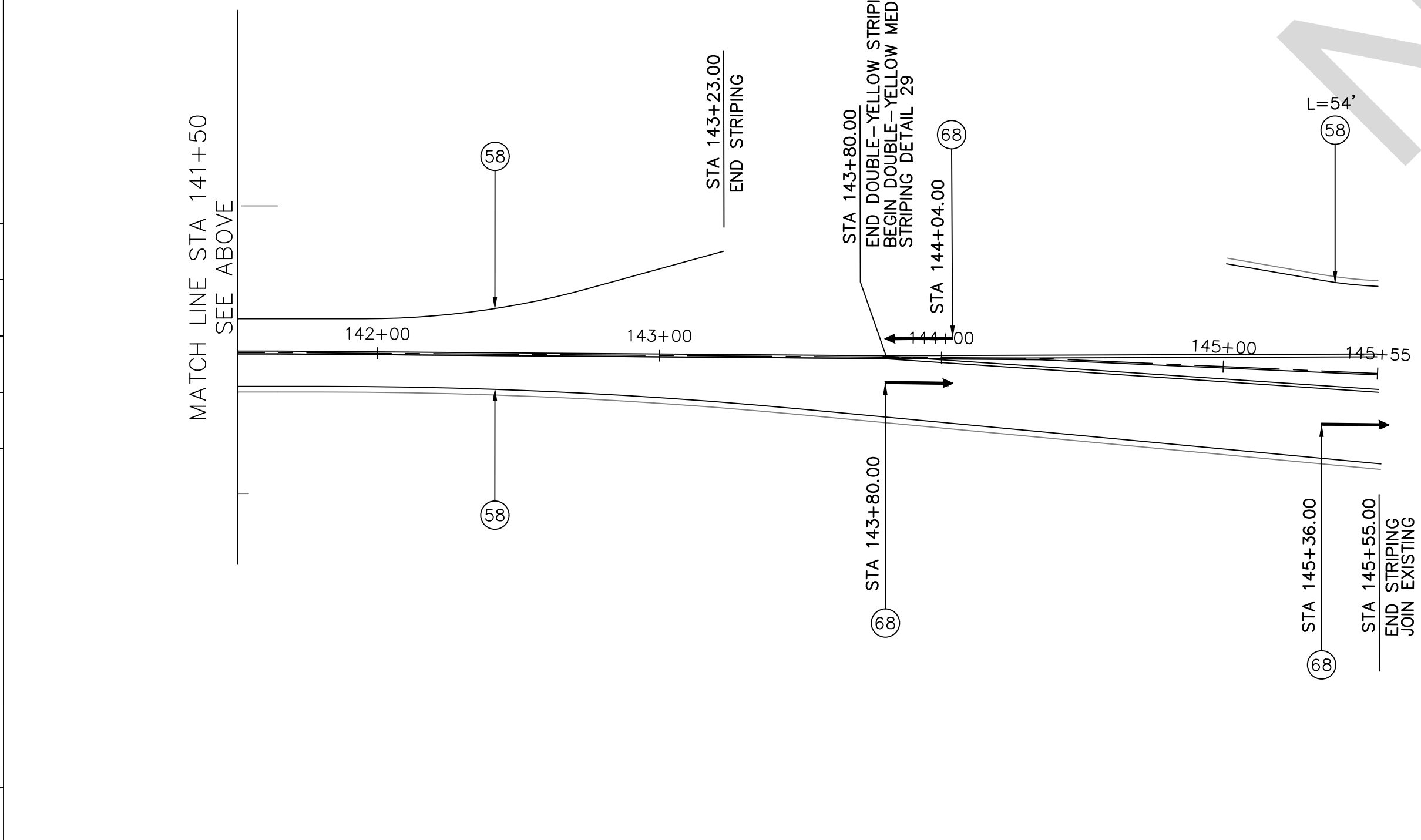
BAKER BLVD AND PARK AVE TRAFFIC SIGNING AND STRIPING PLAN FROM STA 89+00 TO STA 115+20 BAKER AREA			
J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.
	TX1814	N/A	4
FIELD CHANGES			
TOT. SH'TS.	6		



# BAKER BLVD

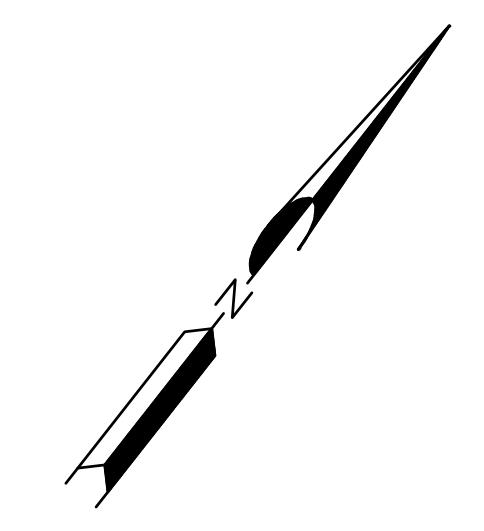


# BAKER BLVD



### TRAFFIC SIGNING AND STRIPING NOTES:

- (51) PAINT 12-INCH SOLID WHITE LIMIT LINE PER CALTRANS 2018 STANDARD PLAN A24E
- (52) PAINT WHITE PAVEMENT MARKING PER CALTRANS 2018 STANDARD PLAN A24D AS SHOWN ON PLAN
- (53) PAINT DOUBLE YELLOW STRIPE PER CALTRANS 2018 STANDARD PLAN A20A, DETAIL 22
- (54) PAINT DOUBLE 6-INCH YELLOW MEDIAN STRIPE PER CALTRANS 2018 STANDARD PLAN A20B, DETAIL 29
- (56) PAINT NO PASSING ZONES-ONE DIRECTION STRIPE PER CALTRANS 2018 STANDARD PLAN A20B, DETAIL 19
- (58) PAINT 6-INCH WIDE, WHITE EDGELINE STRIPE PER CALTRANS 2018 STANDARD PLAN A20B, DETAIL 27B
- (59) PAINT TYPE IV ARROW PAVEMENT MARKING PER CALTRANS 2018 STANDARD PLAN A24A AS SHOWN ON PLAN
- (61) PAINT SPEED LIMIT NUMERICAL PAVEMENT MARKING PER CALTRANS 2018 STANDARD PLAN A24C
- (62) APPLY 12-INCH WIDE, DIAGONAL CROSSHATCHING STRIPE PER CA MUTCD 2014, SECTION 3B.24
- (63) PAINT 8-INCH WIDE, SOLID WHITE CHANNELIZING LINE PER CALTRANS 2018 STANDARD PLAN A20D, DETAIL 38
- (65) PAINT 6-INCH WIDE, DASHED YELLOW CENTER LINE EXTENSIONS PER CALTRANS 2018 STANDARD PLAN A20D, DETAIL 41
- (66) PAINT 8-INCH WIDE, DASHED WHITE LANE DROP LINE PER CALTRANS 2018 STANDARD PLAN A20D, DETAIL 37B
- (67) PAINT TYPE VI ARROW PER CALTRANS 2018 STANDARD PLAN A24A
- (68) PAINT TYPE V ARROW PAVEMENT MARKING PER CALTRANS 2018 STANDARD PLAN A24A AND AS SHOWN ON PLAN



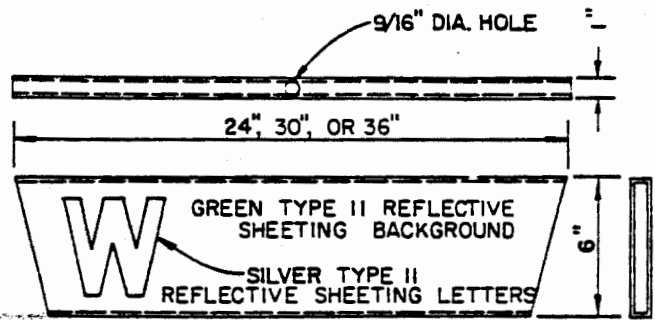
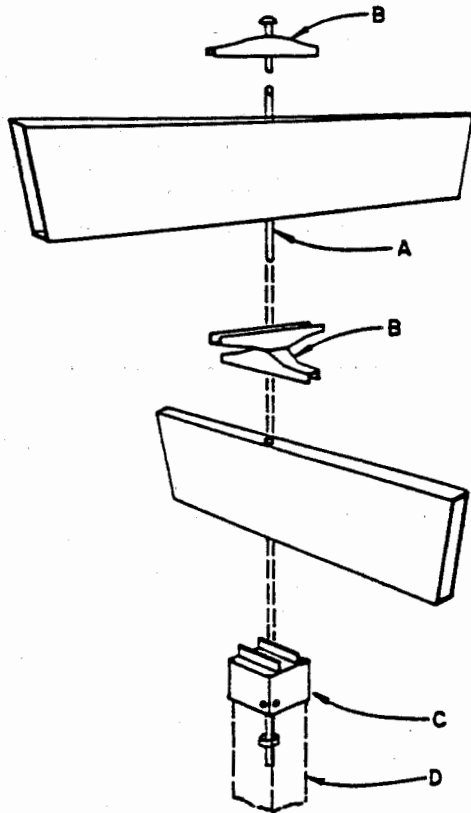
REFER TO SHEET 6  
FOR TRAFFIC CONTROL  
GENERAL NOTES

NOT TO SCALE

STATIONING ON PLANS APPROXIMATES DISTANCES AND MEASUREMENTS FROM COUNTY TCD DATABASE, REFER TO SPECIAL PROVISIONS ORDER OF WORK AND PAINT TRAFFIC STRIPES AND MARKINGS SECTIONS FOR SPECIFICATIONS RELATED TO STRIPING AND MARKINGS

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

BAKER BLVD AND PARK AVE TRAFFIC SIGNING AND STRIPING PLAN FROM STA 115+20 TO STA 141+64 BAKER AREA			
J.L. REF.	W.O. NO.	PLAN SCALE	TOT. SHT'S.
	TX1814	N/A	5



**ASSEMBLY**

- A  $\frac{3}{8}$ " X 15" CADMIUM PLATED CARRIAGE BOLT.
- B ORNAMENTAL TOP SHALL BE 14 GAGE ANODIZED ALUMINUM. CENTER CROSS SADDLE SHALL BE ONE PIECE CAST ANODIZED ALUMINUM.
- C ONE PIECE 2" CAST ANODIZED ALUMINUM POST CAP WITH FOUR  $\frac{3}{8}$ " STAINLESS STEEL ALLEN HEAD SET SCREWS.
- D 2" SQ. STEEL POST 8'-12' LONG INSTALLED WITH A DRIVEN 2  $\frac{1}{2}$ " SQ. STEEL BREAKAWAY BASE 3' LONG AS PER COUNTY INSTALLATION STD. 303b.

**DESIGN:** EACH FOUR-WAY UNIT SHALL CONSIST OF TWO DOUBLE FACE SIGNS WITH STREET NAMES MOUNTED AT RIGHT ANGLES WITH CENTER ROD ASSEMBLY.

**BRACKET ASSEMBLY:** THE POST CAP, ORNAMENT, AND CENTER ROD ASSEMBLY SHALL BE MADE TO MOUNT ON 2" SQ. GALVANIZED POST. THE CENTER ROD SHALL BE A  $\frac{3}{8}$ " CADMIUM PLATED CARRIAGE BOLT. HEAD OF BOLT SHALL FORM TOP OF ORNAMENT. BOLT SHALL EXTEND THROUGH SIGNS AND FASTEN WITH NUT INSIDE OF POST CAP. POST CAP SHALL BE DEEPLY GROOVED TO SECURELY HOLD SIGN FROM TWISTING AND SHALL BE SECURED TO THE PIPE WITH THREE  $\frac{3}{8}$ " STAINLESS STEEL ALLEN HEAD SET SCREWS.

**MATERIAL:** SIGN SHALL BE GREEN ANODIZED ALUMINUM EXTRUSION OF 6063T-4 ALLOY MATERIAL. ALL ANODIZING SHALL CONFORM WITH ALUMILITE SPECIFICATION #215-R1.

**FINISH:** SIGN FACES SHALL BE FHWA TYPE II REFLECTIVE SHEETING. THE TRANSPARENT SCREEN PROCESS COLOR SHALL BE AS RECOMMENDED BY THE REFLECTIVE SHEETING MANUFACTURER. APPLICATION OF THE REFLECTIVE SHEETING TO THE SIGN SHALL BE BY METHODS AS APPROVED BY THE REFLECTIVE SHEETING MANUFACTURER.

**LETTERING:** STREET NAMES SHALL BE 4" HIGH. EACH NAME SHALL BE INDIVIDUALLY LAID OUT TO FIT EITHER THE 24" OR 30" SPACE. THE LETTERS SHALL BE OF THE ROUNDED TYPE STYLE CONFORMING WITH THE STANDARD ALPHABET FOR HIGHWAY SIGNS DESIGNED BY THE U.S. PUBLIC ROADS ADMINISTRATION. LETTERS SHALL BE FHWA TYPE II REFLECTIVE SHEETING.

SAN BERNARDINO COUNTY ROAD DEPARTMENT

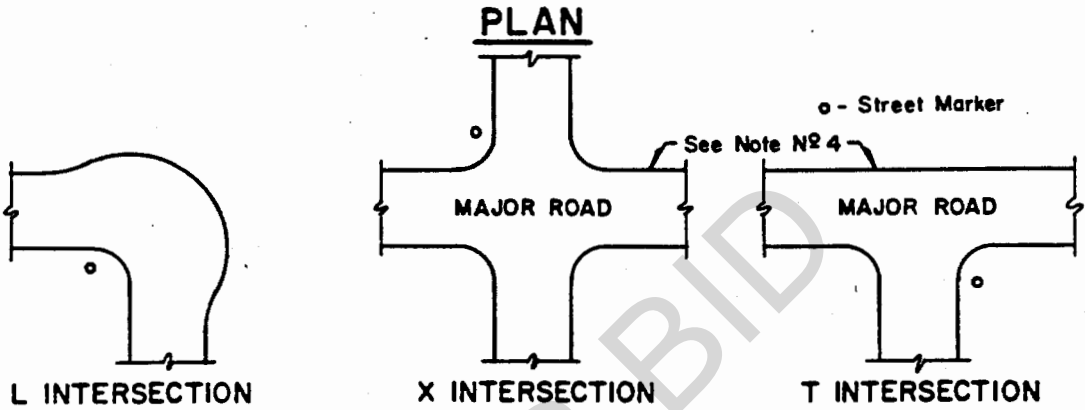
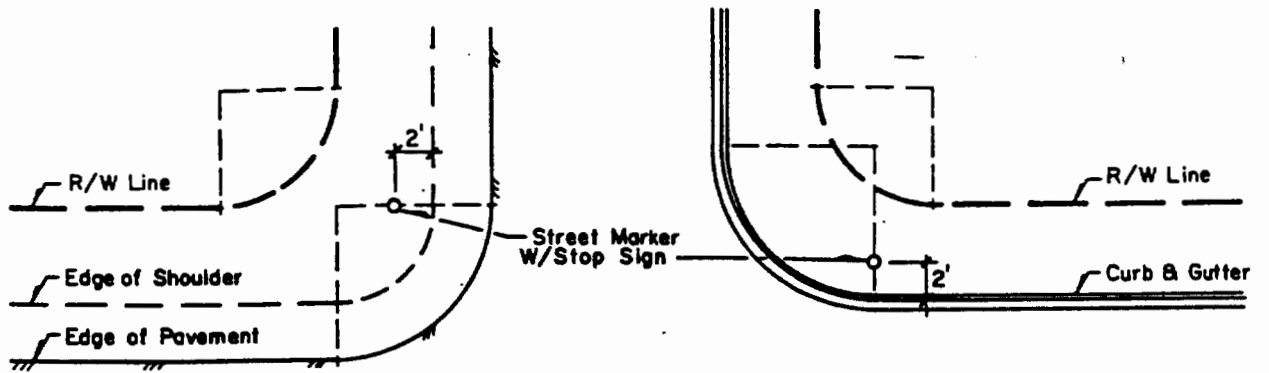
DATE: J.E.M. 11-65  
R.A.J. 10-81

M. A. Nicholas  
COUNTY ENGINEER

STREET MARKER

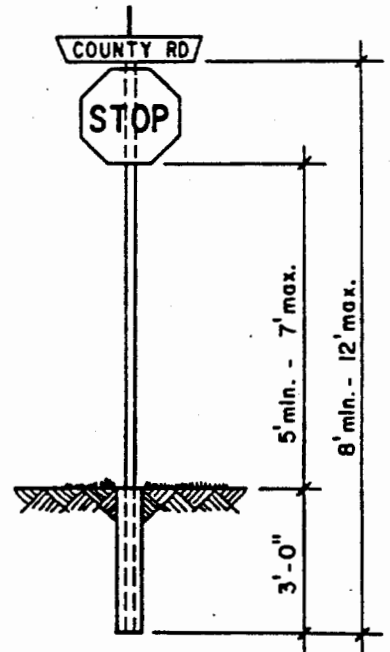
303





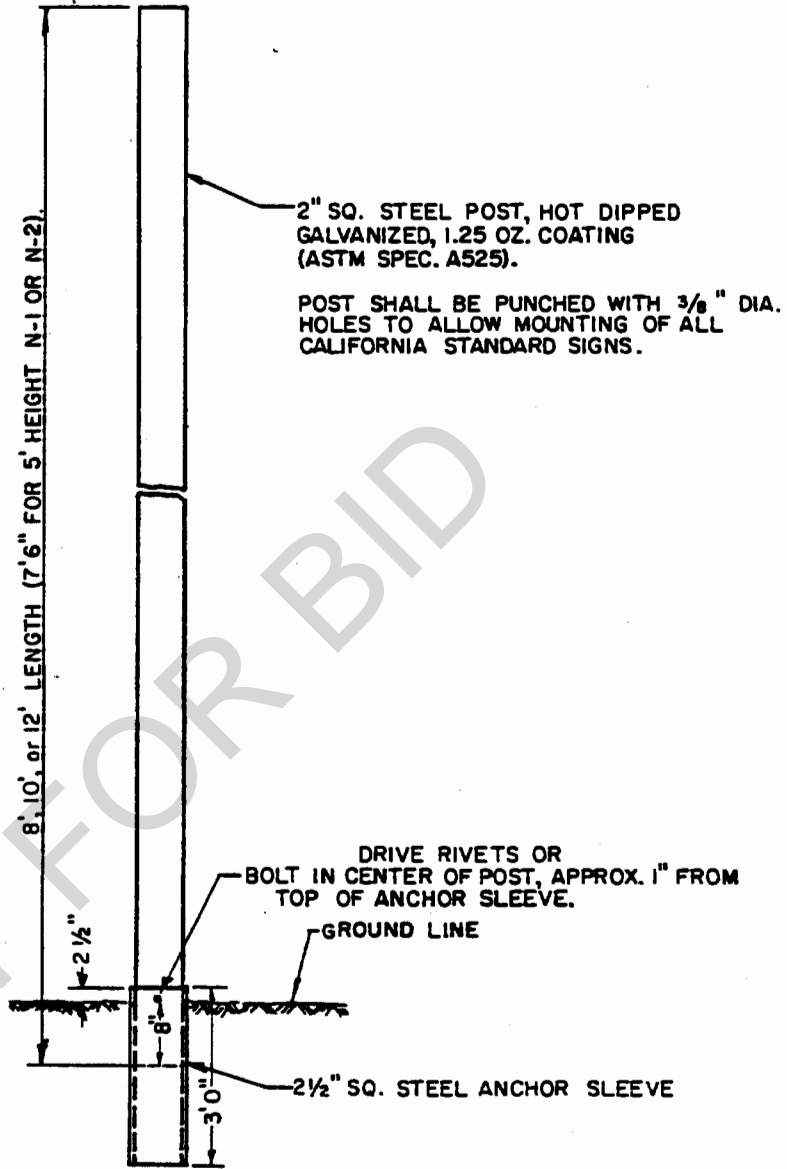
**NOTES:**

1. Marker To Be Set On County Right Of Way.
2. Location Of Marker Shown Is Approximate.
3. Markers To Be Visible For A Distance Of 150 Feet.
4. If Either Road Is Divided Into 4 Lanes Or More (Major Road), Additional Markers Will Be Required.
5. Street Markers Located At Major Roads Will Be Mounted On 12 Foot Posts To Accommodate A Stop Sign.



**ELEVATION**

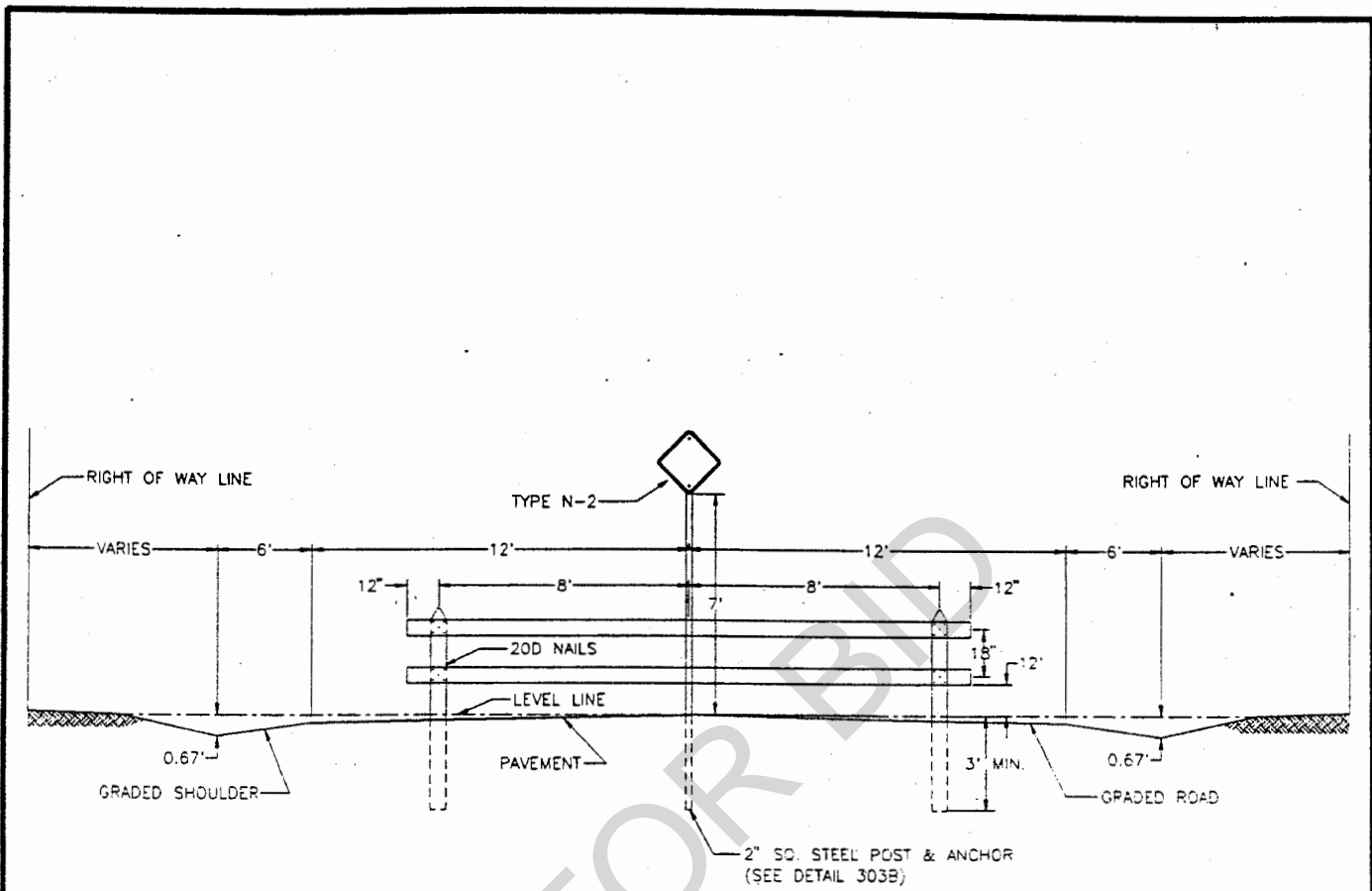
SAN BERNARDINO COUNTY TRANS. DEPT.		<b>STREET MARKER</b>	<b>303a</b>
OCT. 5, 1993 v.h.c. REV. 3/1/94	KEN A. MILLER Director of Transportation		



**NOTES:**

1. SEE STANDARD NO. 303e FOR MARKER LOCATIONS.
2. POST SHALL BE 2" SQ. STEEL AS SHOWN AND STATED.
3. ANCHOR SLEEVE SHALL BE 2 1/2" SQ. STEEL HOT DIPPED GALVANIZED AFTER FABRICATION (ASTM SPEC. A-123).
4. SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH COUNTY STANDARD 303.

SAN BERNARDINO COUNTY ROAD DEPARTMENT		<b>STREET MARKER POST INSTALLATION</b>	<b>303 b</b>
H.G. 1-71 R.O.L. 10-81	<b>M. A. Nicholas</b> COUNTY ENGINEER		



## SECTION VIEW

WIDTH OF ROADWAY	NUMBER OF PANELS	TOTAL LENGTH OF PANELS
20' ALLEY	2	18'
36'	4	34'
44'	5	42'
64'	7	58'
DESERT ROAD	VARIES	VARIES

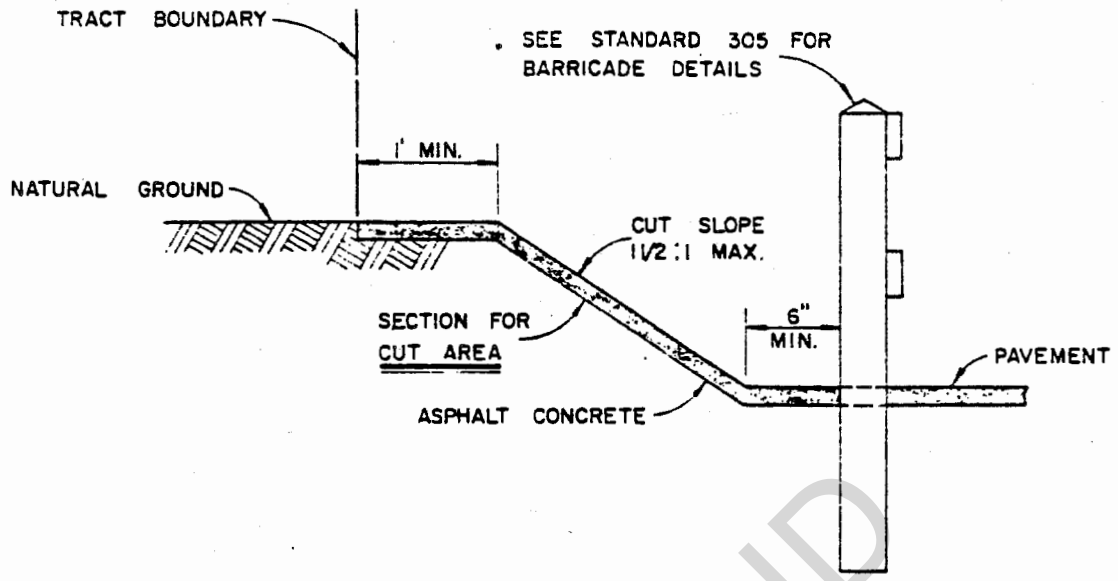
**NOTES:**

1. POSTS ARE TO BE CHAMFERED 6" X 6" X 6" CONST. HEART REDWOOD, S4S. TWO CROSS PLANKS ARE TO BE 2" X 6" DOUGLAS FIR, CONSTRUCTION GRADE.
2. BARRICADE MATERIALS AND N-2 REFLECTOR SHALL CONFORM TO STATE OF CALIFORNIA STANDARD SPECIFICATIONS AND TO FHWA TYPE IIIA OR VISUAL IMPACT PERFORMANCE (VIP) REFLECTIVE SHEETING.
3. ALL EXPOSED WOOD SURFACES SHALL BE GIVEN 2 BRUSH COATS OF FUME-RESISTANT EXTERIOR WHITE PAINT CONFORMING TO STATE OF CALIFORNIA SPECIFICATION 58-G-06.
4. FOR RAIL TO POST CONNECTIONS, PROVIDE TWO EACH 3/8" CARRIAGE BOLTS WITH CUT WASHERS AND NUTS.

STDS\ 305

01/20/95

<b>SAN BERNARDINO COUNTY TRANS. DEPT.</b>		<b>BARRICADE URBAN AREA</b>	<b>305</b>
	KEN A. MILLER		
	Director of Transportation		

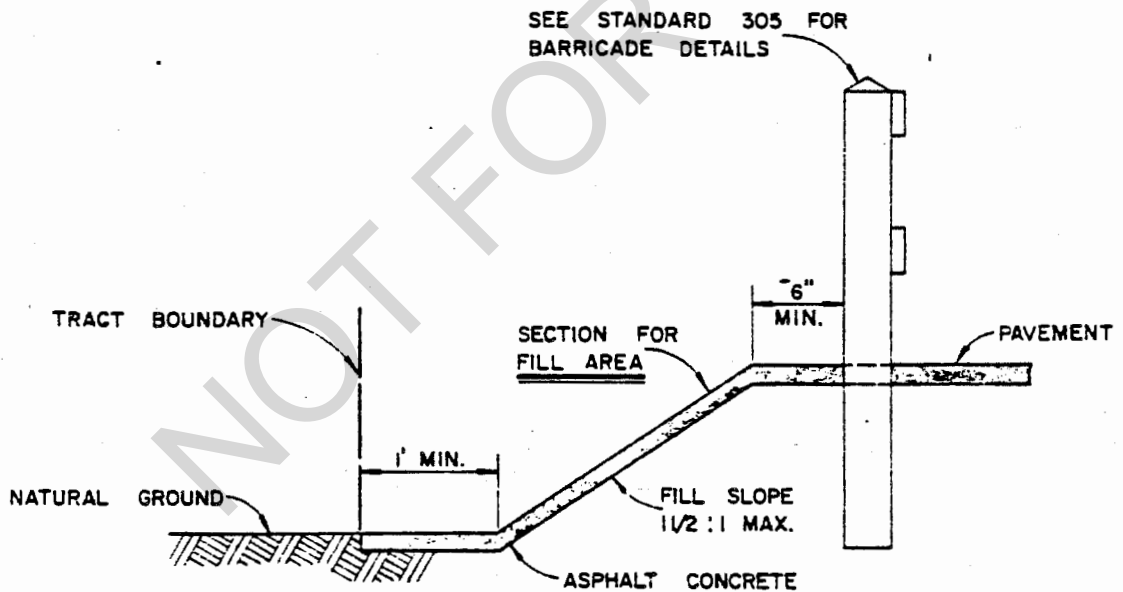


SEE STANDARD 305 FOR BARRICADE DETAILS

SECTION FOR CUT AREA

ASPHALT CONCRETE

PAVEMENT



SEE STANDARD 305 FOR BARRICADE DETAILS

SECTION FOR FILL AREA

ASPHALT CONCRETE

PAVEMENT

**NOTES:**

1. ASPHALT CONCRETE SHALL BE MINIMUM 3 INCHES THICKNESS ON CUT OR FILL AREA.

SAN BERNARDINO COUNTY ROAD DEPARTMENT		M. A. Nicholas COUNTY ENGINEER	END OF STREET TEMPORARY PAVEMENT	305a
DATE: J.E.M. 10-65	R.A.Z. 10-61			



DIST	COUNTY	ROUTE	FIRST MILE TOTAL PROJECT	SHEET TOTAL NO. SHEETS

*Alta Feroz*  
REGISTERED CIVIL ENGINEER

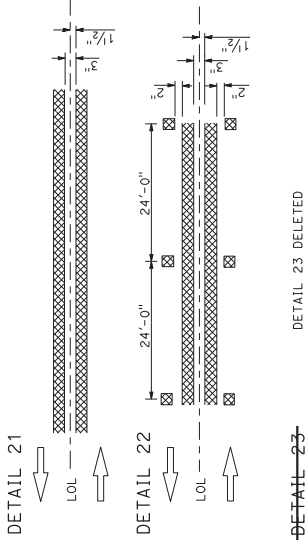
MAY 31, 2018  
EXPIRES DATE

ALTA FERROZ  
No. CB0402  
Exp. 3-31-19  
CIVIL  
STATE OF CALIFORNIA

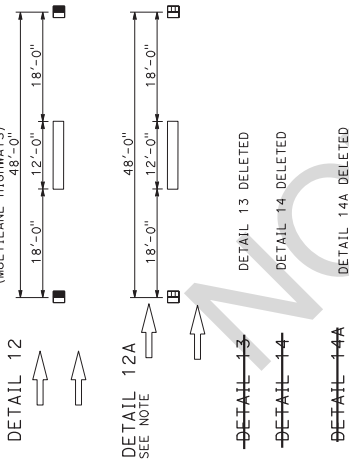
REGISTERED PROFESSIONAL ENGINEER

THE STATE OF CALIFORNIA  
BY APPOINTMENT  
ON BEHALF OF THE BOARD OF CIVIL ENGINEERS  
THIS SEAL SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS PLAN SHEET.

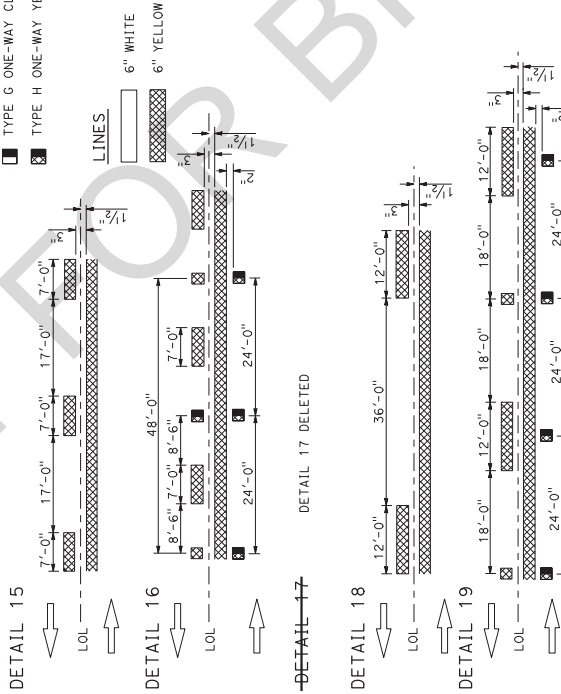
**NO PASSING ZONES-TWO DIRECTION**



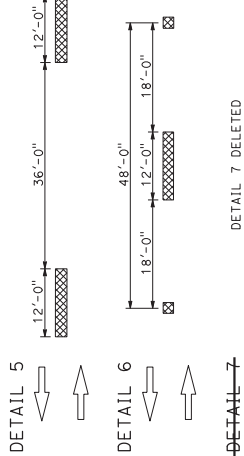
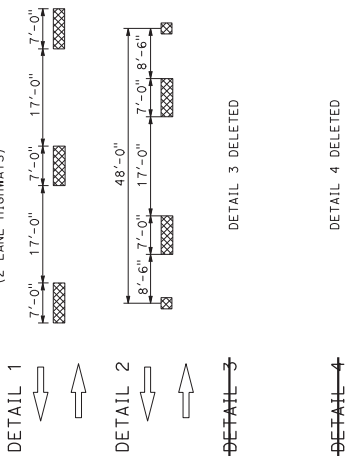
**LANELINES (Cont)**  
(MULTILANE HIGHWAYS)



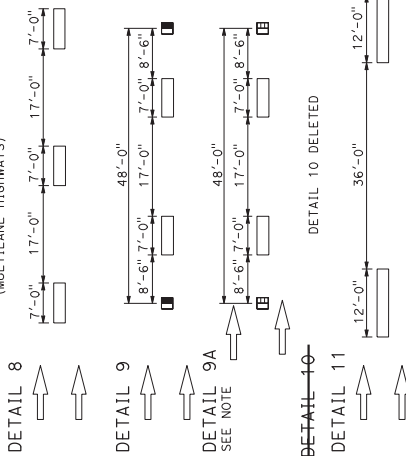
**NO PASSING ZONES-ONE DIRECTION**



**CENTERLINES**  
(2 LANE HIGHWAYS)



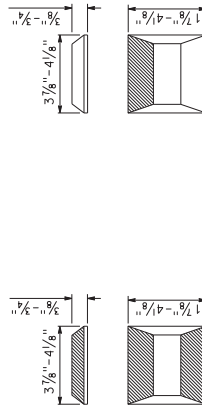
**LANELINES**  
(MULTILANE HIGHWAYS)



- LEGEND**
- MARKERS**
- ☐ TYPE C RED-CLEAR RETROREFLECTIVE
  - ▣ TYPE D TWO-WAY YELLOW RETROREFLECTIVE
  - ▤ TYPE G ONE-WAY CLEAR RETROREFLECTIVE
  - ▥ TYPE H ONE-WAY YELLOW RETROREFLECTIVE

**LINES**

- ▭ 6" WHITE
- ▭ 6" YELLOW



**TYPE C AND TYPE D**      **TYPE G AND TYPE H**

RETROREFLECTIVE FACE

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKERS  
AND TRAFFIC LINES  
TYPICAL DETAILS**

NO SCALE

**A20A**

NOTE:  
FOR FREEWAY APPLICATION ONLY

DIST#	COUNTY	ROUTE	FIRST MILE TOTAL PROJECT	SHEET TOTAL SHEETS

**REGISTERED CIVIL ENGINEER**  
*Alfio Efron*  
 No. CB0402  
 Exp. 3-31-19  
 STATE OF CALIFORNIA  
 PROFESSIONAL ENGINEER

MAY 31, 2018  
 EXPIRES  
 THE STATE OF CALIFORNIA  
 REGISTERED CIVIL ENGINEERS  
 AND ARCHITECTS SHALL NOT BE RESPONSIBLE FOR  
 THE ACCURACY OR COMPLETENESS OF ANY SCANNED  
 COPIES OF THIS PLAN SHEET.

**LEGEND**

**MARKERS**

- TYPE D
- TYPE H
- TYPE RY

**LINES**

- 6" WHITE
- 6" YELLOW
- TWO-WAY YELLOW RETROREFLECTIVE
- ONE-WAY YELLOW RETROREFLECTIVE
- RED-YELLOW RETROREFLECTIVE

**MEDIAN ISLANDS**

DETAIL 28

MINIMUM

LOL

DETAIL 29

MINIMUM

LOL

DETAIL 30 DELETED

**LEFT EDGELINES**  
 (DIVIDED HIGHWAYS)

EDGE OF TRAVELED WAY

48'-0"

24'-0"

48'-0"

48'-0"

48'-0"

**RIGHT EDGELINES**

DETAIL 27A DELETED

DETAIL 27B

EDGE OF TRAVELED WAY

48'-0"

**RIGHT EDGELINE EXTENSION THROUGH INTERSECTIONS**

DETAIL 27C

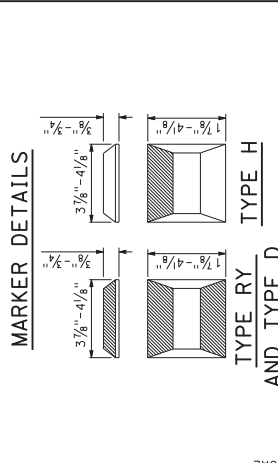
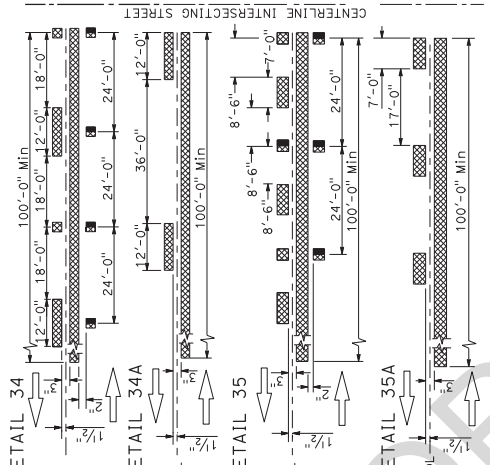
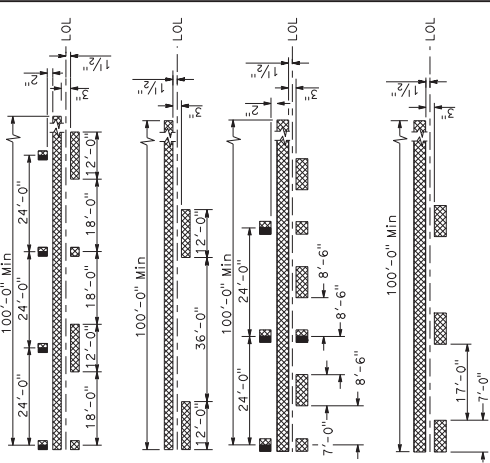
3'-0"

12'-0"

12'-0"

3'-0"

**INTERSECTION TREATMENTS**



STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS**

NO SCALE

**A 20B**

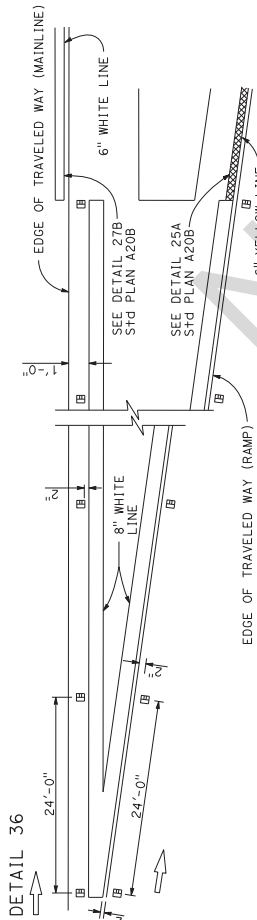
Return to Table of Contents

DIST	COUNTY	ROUTE	PRIEST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS

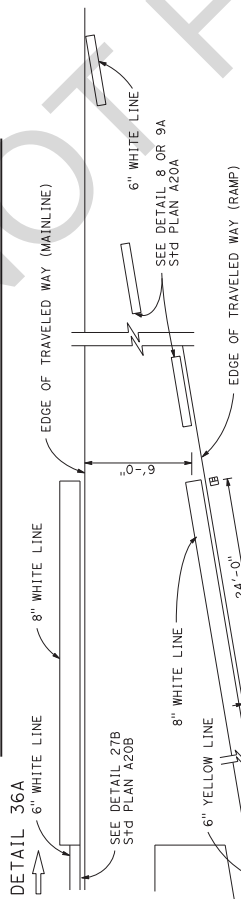
**REGISTERED CIVIL ENGINEER**  
*Alta Feroz*  
 No. CB0402  
 Exp. 3-31-19  
 STATE OF CALIFORNIA

PROFESSIONAL ENGINEER  
 MAY 31, 2018  
 DATE  
 THIS STATE OF CALIFORNIA LICENSE IS VALID FOR THE OFFICER'S  
 OWN ACTS ONLY AND NOT BE RESPONSIBLE FOR  
 THE ACTS OF OTHERS WHOSE NAMES OR SEALS OF OFFICE  
 APPEAR ON THESE PLANS.

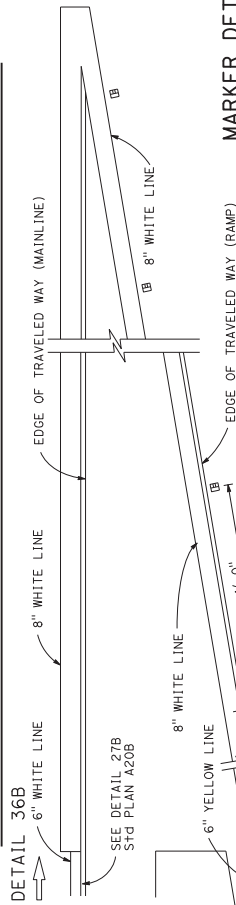
**EXIT RAMP NEUTRAL AREA (GORE) TREATMENT**



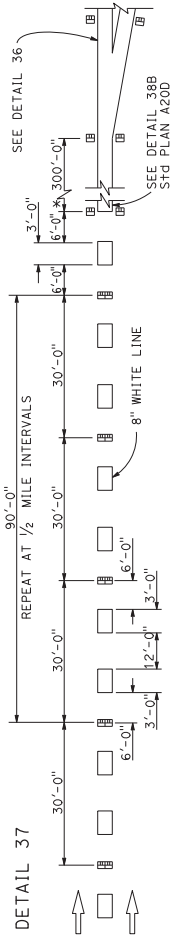
**ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT**



**ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT**



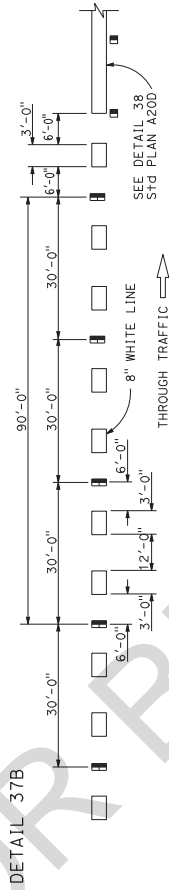
**LANE DROP AT EXIT RAMP**



\* The solid channelizing line shown may be omitted on short auxiliary lanes where weaving length is critical.

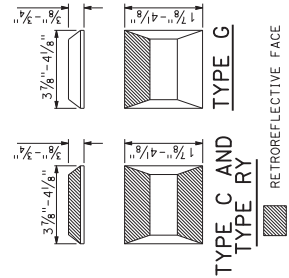
DETAIL 37A DELETED

**LANE DROP AT INTERSECTIONS**



DETAIL 37C DELETED

**MARKER DETAILS**



**LEGEND:**

- MARKERS**
- TYPE C RED-CLEAR RETROREFLECTIVE
  - TYPE G ONE-WAY CLEAR RETROREFLECTIVE
  - TYPE RY RED-YELLOW RETROREFLECTIVE

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKERS  
 AND TRAFFIC LINES  
 AND TYPICAL DETAILS**

NO SCALE

**A20C**

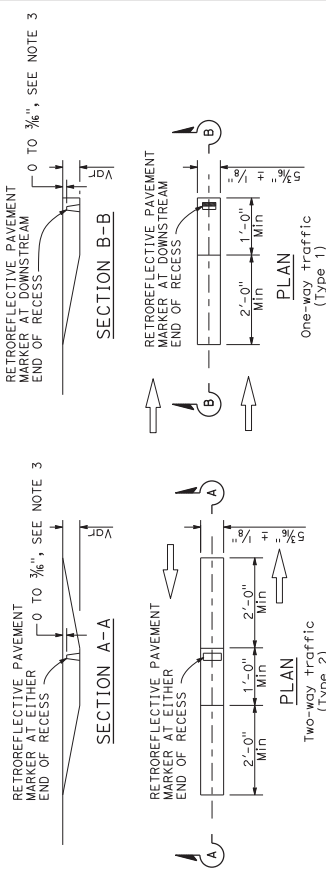
DIST	COUNTY	ROUTE	FIRST MILE TOTAL PROJECT	SHEET TOTAL NO. SHEETS

*Alfira Jagan*  
REGISTERED CIVIL ENGINEER

MAY 31, 2018  
DATE OF EXPIRATION OF LICENSE  
NO. CB0402  
No. 3-31-19  
CIVIL  
STATE OF CALIFORNIA

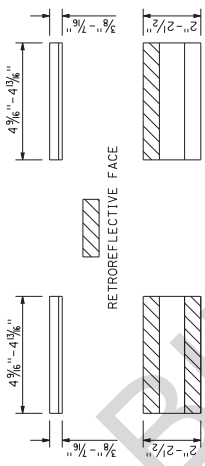
REGISTERED PROFESSIONAL ENGINEER  
ALFIRA EPOUZA  
No. CB0402  
No. 3-31-19  
CIVIL  
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THESE PLANS SHEETS.  
NO AGENT SHALL BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THESE PLANS SHEETS.



**RECESS DETAIL FOR RETROREFLECTIVE PAVEMENT MARKER**

- RECESSED MARKER NOTES:**
1. See typical traffic line details for marker patterns to be used with recessed pavement markers. Detail 14A requires a Type 2 recess.
  2. The retroreflective pavement markers shown for recessed installations are not to be used for non-recessed installations.
  3. The top of pavement markers installed in recesses shall be 0 to 3/8" below the pavement surface.

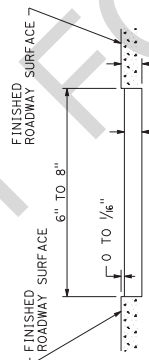
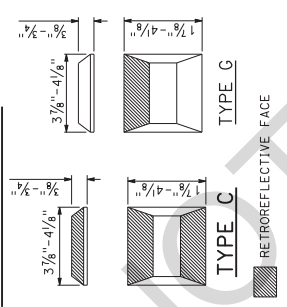


**RETROREFLECTIVE PAVEMENT MARKER FOR RECESSED INSTALLATION**

**LEGEND**

- MARKERS**
- TYPE C RED-CLEAR RETROREFLECTIVE
  - TYPE G ONE-WAY CLEAR RETROREFLECTIVE
  - 6" YELLOW LINE

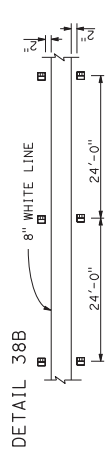
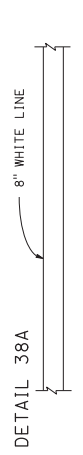
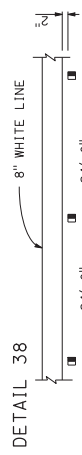
**MARKER DETAILS**



**DETAIL FOR RECESSED THERMOPLASTIC TRAFFIC STRIPE**

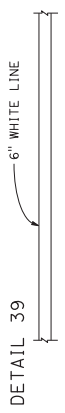
- See Notes A and B.
- RECESSED THERMOPLASTIC NOTES**
- See typical traffic line details for pavement marking patterns.
  - The top of the thermoplastic installed in recessed pavement shall be 0 to 1/8" below the pavement surface.

**CHANNELIZING LINE**

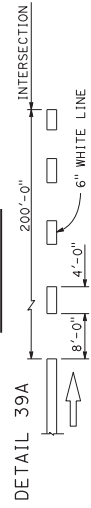


DETAIL 38C DELETED

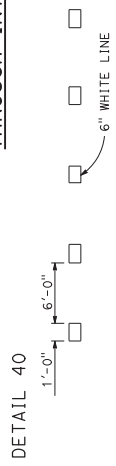
**BIKE LANE LINE**



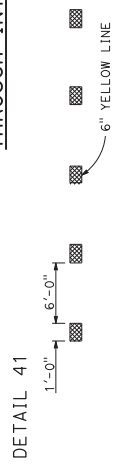
**INTERSECTION LINE BIKE LANE**



**LANE LINE EXTENSIONS THROUGH INTERSECTIONS**



**CENTER LINE EXTENSIONS THROUGH INTERSECTIONS**



DETAIL 40A DELETED

DETAIL 41A DELETED

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKERS AND TRAFFIC LINES AND TYPICAL DETAILS**

NO SCALE

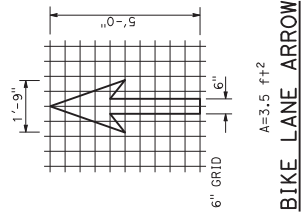
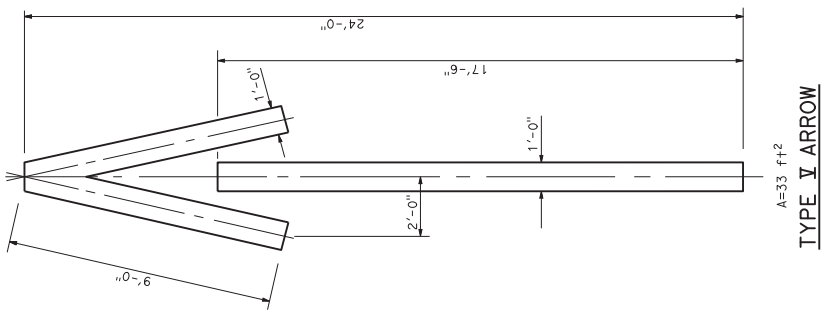
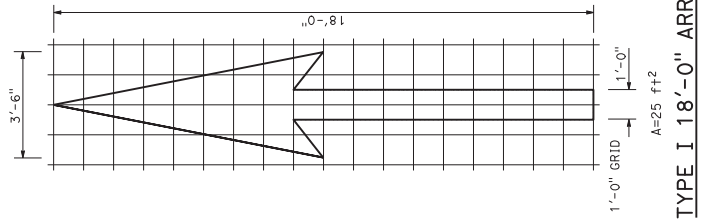
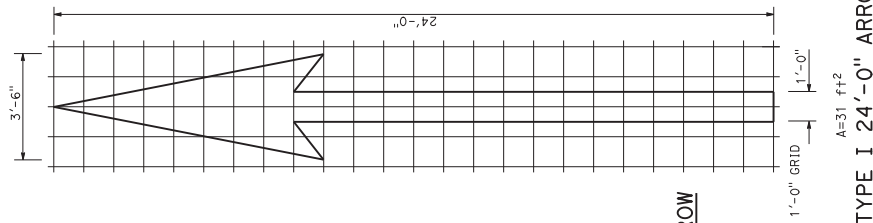
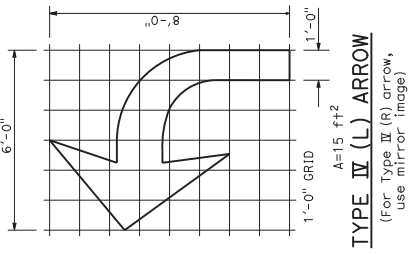
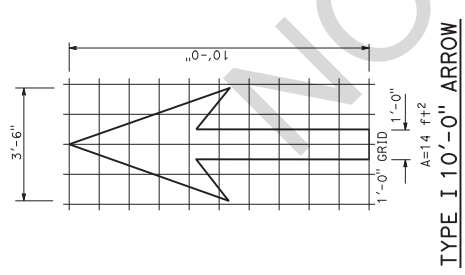
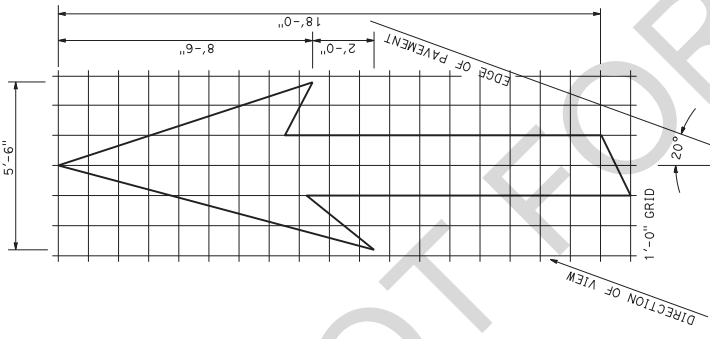
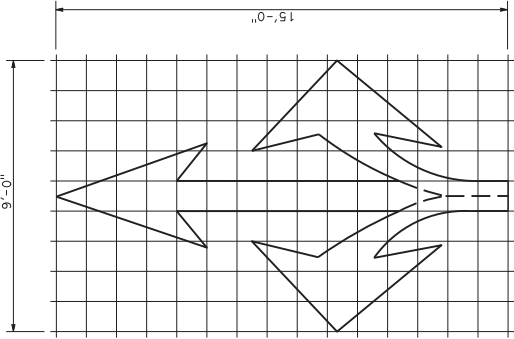
**A 20D**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS

*Oliver Jean*  
REGISTERED CIVIL ENGINEER

MAY 31, 2018  
PLANS FOR THE  
THE STATE OF CALIFORNIA OR ITS OFFICERS  
OR AGENTS SHALL NOT BE RESPONSIBLE FOR  
ANY ERRORS OR OMISSIONS OR FOR THE  
CORRECTNESS OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER  
Arlto Ercolano  
No. CB0402  
Exp. 3-31-19  
CIVIL  
STATE OF CALIFORNIA



**NOTE:**  
Minor variations in dimensions may be accepted by the Engineer.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKINGS  
ARROWS**  
NO SCALE

**A 24A**



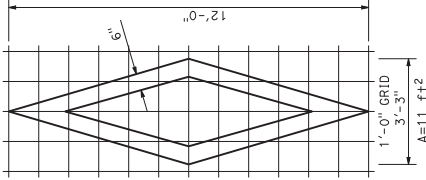
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS

REGISTERED CIVIL ENGINEER  
*Alfego Efron*  
 No. 33119  
 STATE OF CALIFORNIA  
 PROFESSIONAL ENGINEER & ARCHITECT

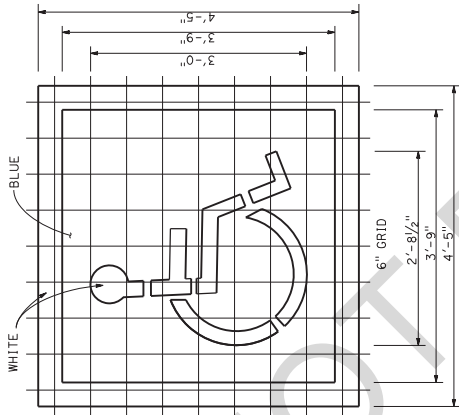
REGISTERED CIVIL ENGINEER  
 Alfego Efron  
 No. 33119  
 STATE OF CALIFORNIA  
 PROFESSIONAL ENGINEER & ARCHITECT

THIS STATE OF CALIFORNIA PROFESSIONAL ENGINEER & ARCHITECT HAS REVIEWED THIS SHEET FOR CONFORMANCE WITH THE PROFESSIONAL ENGINEERING AND ARCHITECTURE ACT AND THE PUBLIC SAFETY ACT. THE ENGINEER AND ARCHITECT SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS OF THIS SHEET.

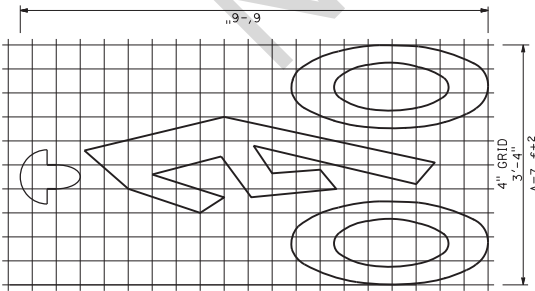
**NOTE:**  
 Minor variations in dimensions may be accepted by the Engineer.



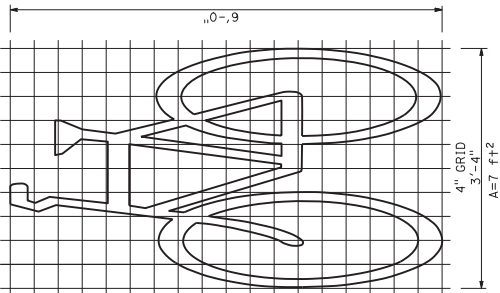
**DIAMOND SYMBOL**



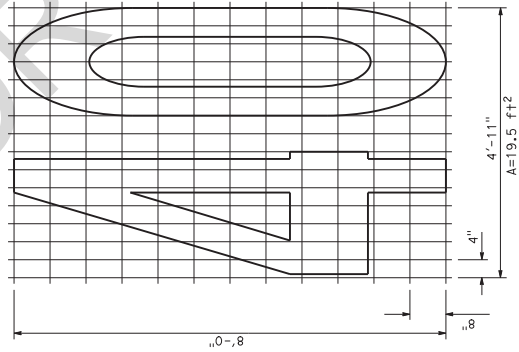
**INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) MARKING**



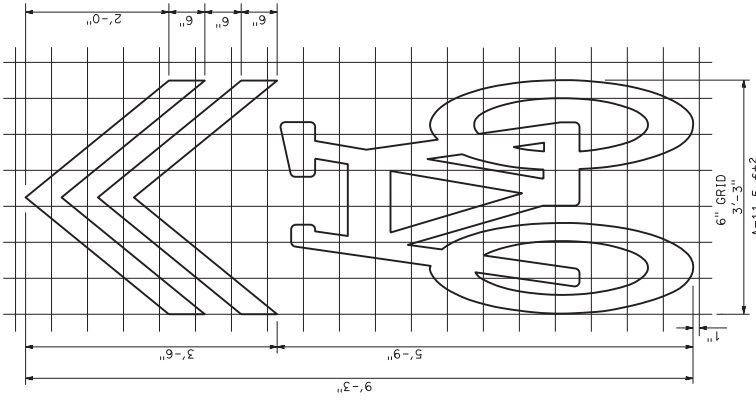
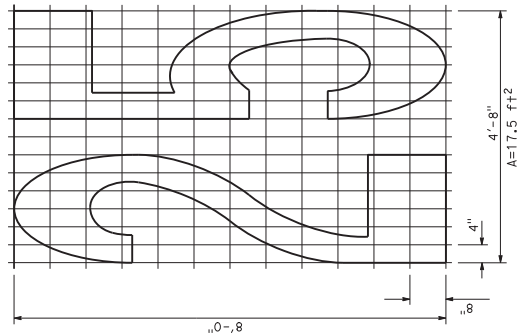
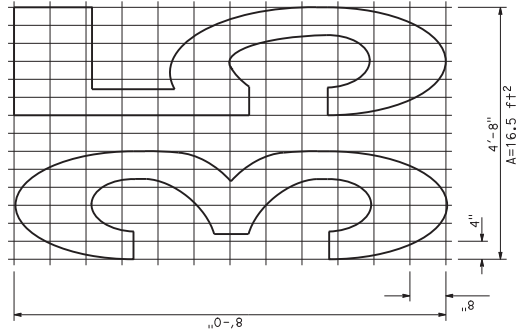
**BIKE LANE SYMBOL WITH PERSON**



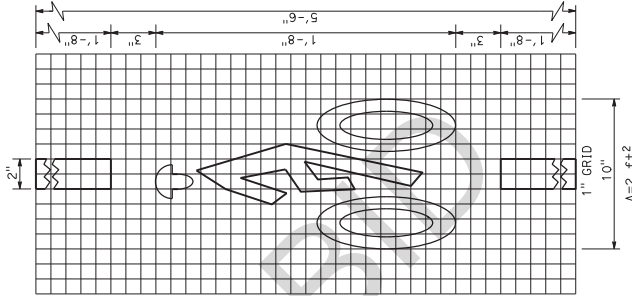
**BIKE LANE SYMBOL WITHOUT PERSON**



**NUMERALS**



**SHARED ROADWAY BICYCLE MARKING**



**BICYCLE LOOP DETECTOR SYMBOL**

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKINGS  
 SYMBOLS AND NUMERALS**

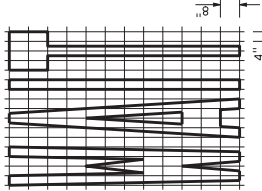
NO SCALE

**A 24C**

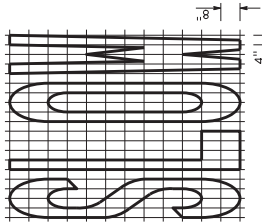
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS

*Oliver Jean*  
 REGISTERED CIVIL ENGINEER  
 No. 31,2018  
 PLANS APPROVAL DATE  
 May 31, 2018  
 THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS SHALL NOT BE RESPONSIBLE FOR  
 THE ACCURACY OF THIS PLAN SHEET UNLESS IT IS  
 CORRECTED BY THIS PLAN SHEET.

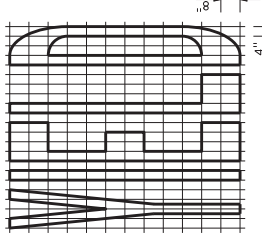
REGISTERED PROFESSIONAL ENGINEER  
 No. CB0402  
 Exp. 3-31-19  
 CIVIL  
 STATE OF CALIFORNIA



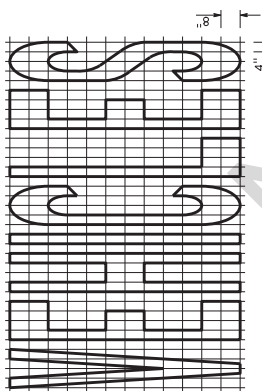
A=19 f+2



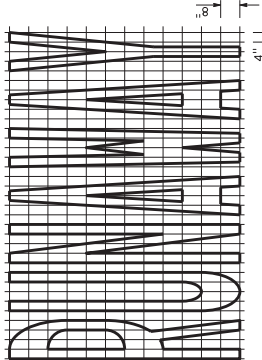
A=23 f+2



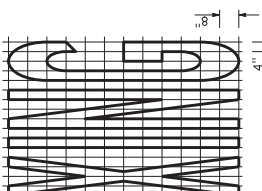
A=24 f+2



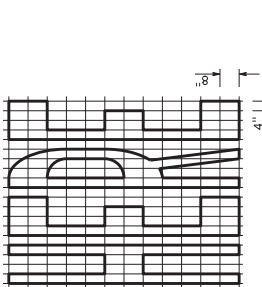
A=42 f+2



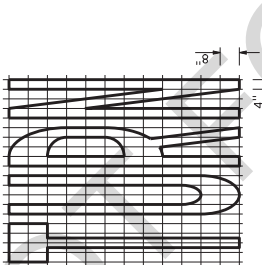
A=43 f+2



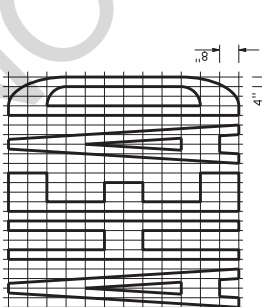
A=21 f+2



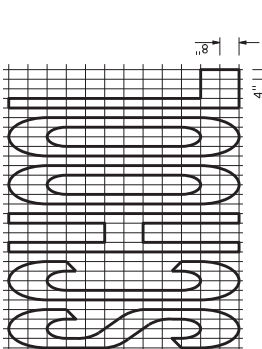
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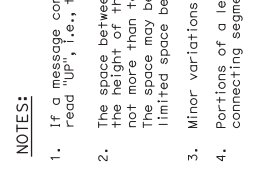
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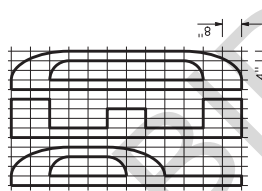
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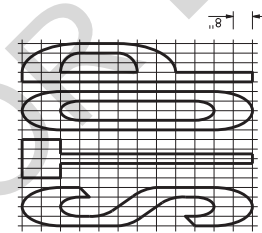
A=35 f+2



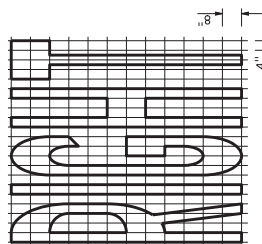
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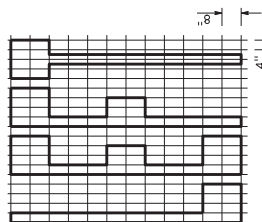
A=22 f+2



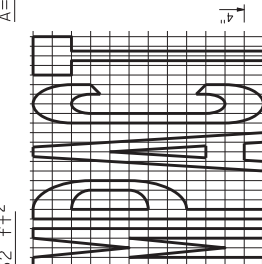
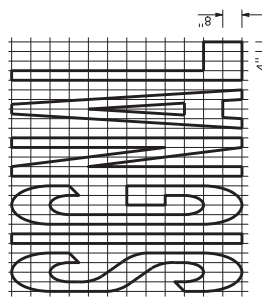
A=26 f+2



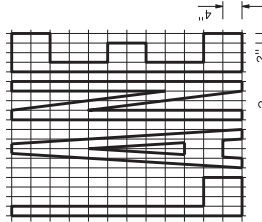
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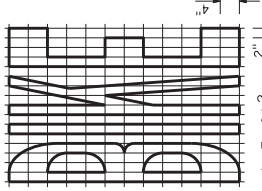
A=32 f+2



A=10 f+2



A=6 f+2



A=5 f+2

WORD MARKINGS					
ITEM	f+2	ITEM	f+2	ITEM	f+2
XING	21	YIELD	24	BIKE	5
AHEAD	31	SCHOOL	35	SLOW	23
WAIT	19	SIGNAL	32	STOP	22
LANE	6	TURN	24	LEFT	19
RIGHT	26	HERE	26	VEHICLES	42

**NOTES:**

- If a message consists of more than one word, it must read "Up", i.e., the first word must be nearest the driver.
- The space between words must be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
- Minor variations in dimensions may be accepted by the Engineer.
- Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

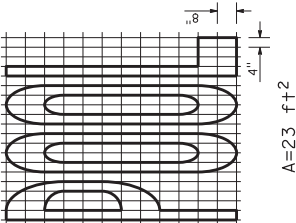
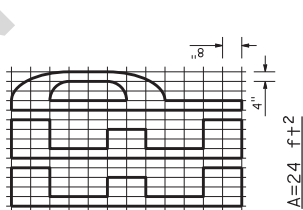
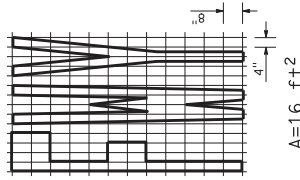
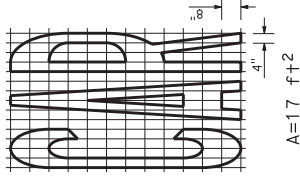
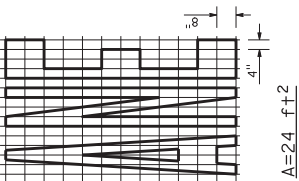
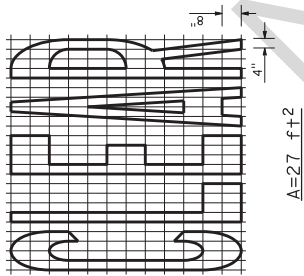
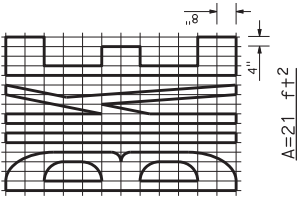
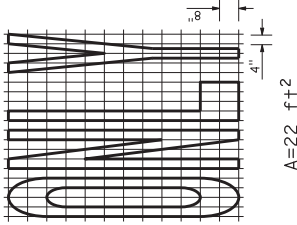
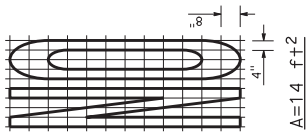
**PAVEMENT MARKINGS  
WORDS**

NO SCALE

**A 24D**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS

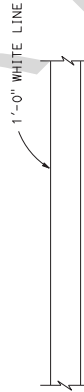
**Oliver Jean**  
 REGISTERED CIVIL ENGINEER  
 No. 31,2018  
 EXPIRES MAY 31, 2018  
 PLANS APPROVED BY  
 THE STATE OF CALIFORNIA OFFICE OF THE REGISTERED PROFESSIONAL ENGINEER & ARCHITECT  
 No. CB0402  
 Exp. 3-31-19  
 CIVIL  
 STATE OF CALIFORNIA  
 THE STATE OF CALIFORNIA OFFICE OF THE REGISTERED PROFESSIONAL ENGINEER & ARCHITECT  
 NO ARCHITECT SHALL BE RESPONSIBLE FOR THE ACCURACY OF THIS PLAN SHEET.  
 COPIES OF THIS PLAN SHEET.



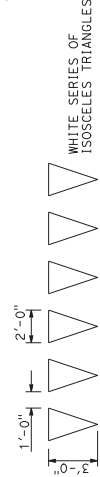
WORD MARKINGS			
ITEM	ft+2	ITEM	ft+2
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16

**NOTES:**

- If a message consists of more than one word, it must read "up", i.e., the first word must be nearest the driver.
- The space between words must be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
- Minor variations in dimensions may be accepted by the Engineer.
- Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.
- The words "NO PARKING" pavement marking is to be used for parking facilities. For typical locations of markings, see Standard Plans A90A and A90B.
- The words "NO PARKING" shall be painted in white letters no less than 1/2" high on a contrasting background and located so that it is visible to traffic enforcement officials.



**LIMIT LINE (STOP LINE)**



WHITE SERIES OF ISOSCELES TRIANGLES

**YIELD LINE**

A=2 ft+2  
See Notes 6 and 7

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKINGS  
WORDS, LIMIT AND YIELD LINES**

NO SCALE

**A 24E**

Return to Table of Contents

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS

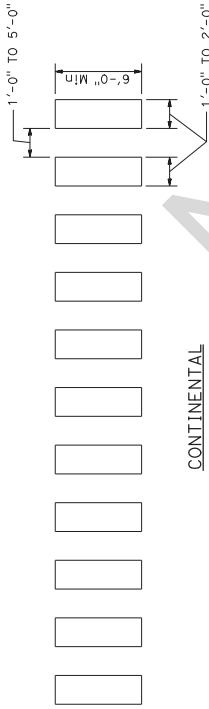
*Oliver Jean*  
REGISTERED CIVIL ENGINEER

May 31, 2018  
PLANS PREPARED BY  
THE STATE OF CALIFORNIA DEPT. OF TRANSPORTATION  
AN AGENT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

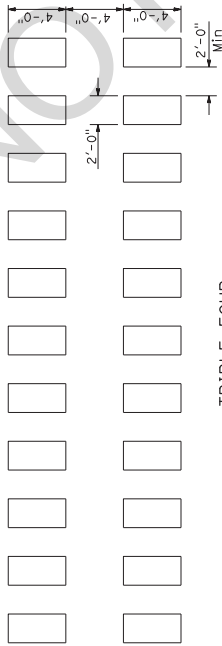
REGISTERED PROFESSIONAL ENGINEER  
No. CB0402  
Exp. 3-31-19  
CIVIL  
STATE OF CALIFORNIA

**NOTES:**

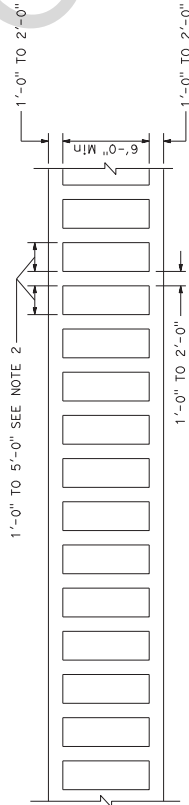
1. Spaces between markings must be placed in wheel tracks of each lane.
2. Spacings not to exceed 2.5 times width of longitudinal line.
3. All crosswalk markings must be white except those near schools must be yellow.



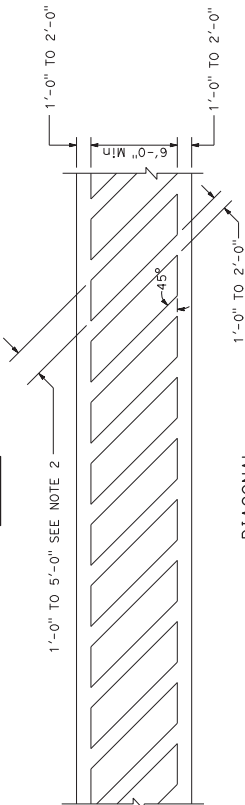
**CONTINENTAL**  
See Note 1



**TRIPLE FOUR**  
See Note 1

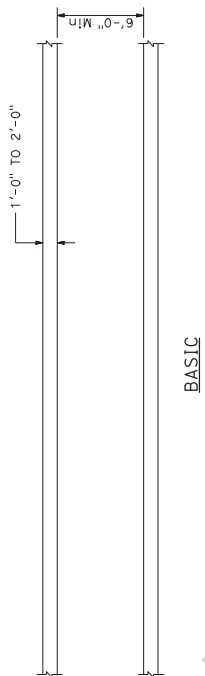


**LADDER**



**DIAGONAL**

**HIGHER VISIBILITY CROSSWALKS**



**BASIC**

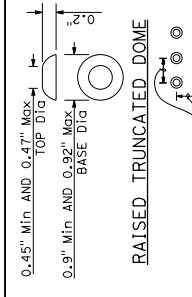
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKINGS  
CROSSWALKS**

NO SCALE

**A 24F**

DIS#	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL SHEETS

REGISTERED CIVIL ENGINEER  
 MAY 31, 2018  
 REBECCA LYNN MERRY  
 LICENSE NO. CS4415  
 EXPIRES 12-31-19  
 THE STATE OF CALIFORNIA  
 FOR AGENCIES, SHALL NOT BE RESPONSIBLE FOR  
 THE CORRECTNESS OF THIS PLAN SHEET, IN WHOLE OR IN PART.



**RAISED TRUNCATED DOME DETECTABLE WARNING SURFACE**

See Note 10

1. As site conditions dictate, Case A through Case G curb ramps may be used. The case of curb ramps used in Detail A do not have to be the same. Case A through Case G curb ramps also may be used at mid-block locations, as site conditions dictate. For specific site condition configuration, including the conform to existing sidewalk, see Project Plans.

2. If distance from curb to back of sidewalk is too short to accommodate ramp and 4'-2" planting (landing) as shown in Case A, the sidewalk may be depressed longitudinally as in Case B or C or may be widened as in Case D.

3. When ramp is located in center of curb return, crosswalk configuration must be similar to that shown for Detail B.

4. As site conditions dictate, the retaining curb side and the flared side of the Case G ramp shall be constructed in reversed position.

5. The ramp portion of the curb ramp is a typical rectangle, unless modified in the Project Plans.

6. Side slope of ramp flares vary uniformly from a maximum of 9.0% at curb to conform with longitudinal sidewalk slope adjacent to top of the ramp, except in Case C and Case F.

7. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.

8. Counter slopes of adjoining gutters and road surfaces immediately adjacent to and within 24 inches of the curb ramp shall not be steeper than 1V:20H (5.0%). Gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.

9. Transition gutter pan slope from 1" of depth for each 2'-0" of width to match the detectable warning surface will be a rectangle as shown at back of curb, unless modified in the Project Plans. Curb ramps shall have a detectable warning surface that extends the full width and 3'-0" depth of the ramp. Detectable warning surfaces shall extend the full width of the ramp except where a maximum gap of 1/4 inch is allowed on each side of the ramp. Detectable warning surfaces shall conform to the requirements in the Standard Specifications.

11. Sidewalk and ramp thickness, "T", shall be 3/2" minimum.

12. Utility pull boxes, manholes, vaults and all other utility facilities within the boundaries of the curb ramp will be relocated or adjusted to grade by the owner prior to, or in conjunction with, curb ramp construction.

13. Detectable warning surface may have to be cut to allow removal of utility covers while maintaining detectable warning width and depth.

TYPICAL GUTTER PAN APPLIES TO ALL CASES

GUTTER PAN TRANSITION

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**CURB RAMP DETAILS**

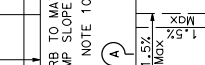
NO SCALE

A88A



**CASE A**

SEE NOTE 10



**CASE B**

SEE NOTE 10



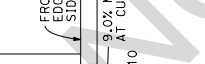
**CASE C**

SEE NOTE 10



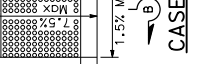
**CASE D**

SEE NOTE 10



**CASE E**

SEE NOTE 10



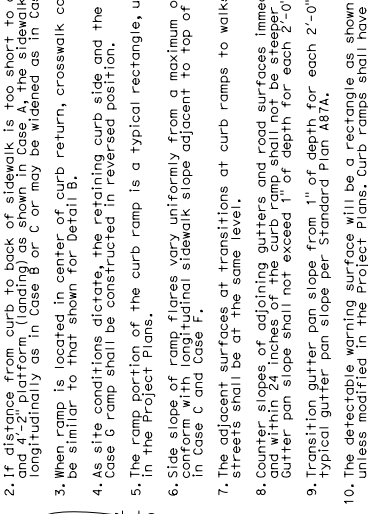
**CASE F**

SEE NOTE 10



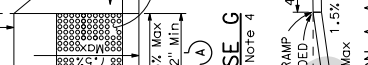
**CASE G**

SEE NOTE 4



**SECTION A-A**

Depress entire sidewalk as required



**SECTION B-B**

Depress entire sidewalk as required



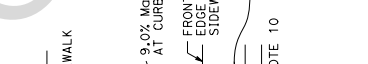
**SECTION C-C**

Depress entire sidewalk as required



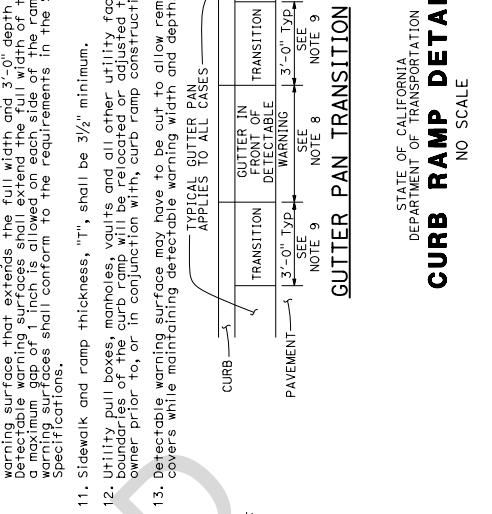
**DETAIL A**

WHERE A FLARED SIDE OCCURS PROVIDE 2'-0" MIN OF CURB



**DETAIL B**

WHERE A FLARED SIDE OCCURS PROVIDE 2'-0" MIN OF CURB



**RAISED TRUNCATED DOME DETECTABLE WARNING SURFACE**

See Note 10

1. As site conditions dictate, Case A through Case G curb ramps may be used. The case of curb ramps used in Detail A do not have to be the same. Case A through Case G curb ramps also may be used at mid-block locations, as site conditions dictate. For specific site condition configuration, including the conform to existing sidewalk, see Project Plans.

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9. Transition gutter pan slope from 1" of depth for each 2'-0" of width to match the detectable warning surface will be a rectangle as shown at back of curb, unless modified in the Project Plans. Curb ramps shall have a detectable warning surface that extends the full width and 3'-0" depth of the ramp. Detectable warning surfaces shall extend the full width of the ramp except where a maximum gap of 1/4 inch is allowed on each side of the ramp. Detectable warning surfaces shall conform to the requirements in the Standard Specifications.

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TYPICAL GUTTER PAN APPLIES TO ALL CASES

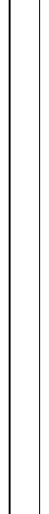
GUTTER PAN TRANSITION

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**CURB RAMP DETAILS**

NO SCALE

A88A



**RAISED TRUNCATED DOME DETECTABLE WARNING SURFACE**

See Note 10

1. As site conditions dictate, Case A through Case G curb ramps may be used. The case of curb ramps used in Detail A do not have to be the same. Case A through Case G curb ramps also may be used at mid-block locations, as site conditions dictate. For specific site condition configuration, including the conform to existing sidewalk, see Project Plans.

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TYPICAL GUTTER PAN APPLIES TO ALL CASES

GUTTER PAN TRANSITION

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**CURB RAMP DETAILS**

NO SCALE

A88A



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS

**REGISTERED CIVIL ENGINEER**  
*Oliver Jean*  
 No. CB0402  
 Exp. 3-31-19  
 STATE OF CALIFORNIA  
 PROFESSIONAL ENGINEER

MAY 31, 2018  
 PLANS  
 CONTRACT DATE  
 THE STATE OF CALIFORNIA  
 OR AGENTS SHALL NOT BE RESPONSIBLE FOR  
 THE ACCURACY OR COMPLETENESS OF SCANNED  
 COPIES OF THIS PLAN SHEET.

TABLE 3

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

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

TABLE 2

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

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

\*\* - Longitudinal buffer space or flagger station spacing and longer than 1 mile.

\*\*\* - Use on sustained downgrade steeper than -3 percent

TABLE 1

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

\* - For other offsets, use the following merging taper length formula for L:  
 For speed of 40 mph or less,  $L = WS^2/60$   
 For speed of 45 mph or more,  $L = WS$

Where: L = Taper length in feet

W = Width of offset in feet

S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

\*\* - 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 TABLES  
 FOR LANE AND RAMP CLOSURES**

NO SCALE

T9

DATE COUNTY ROUTE TOTAL PROJECT SHEET NO. SHEETS

REGISTERED CIVIL ENGINEER

May 31, 2018

PLANS APPROVAL DATE

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

**NOTES:**

See Standard Plan T9 for tables.

Use cone spacing X for taper segment Y for taper segment of Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

Provide at least one person to continuously maintain traffic control devices for lane closures.



LANE CLOSURE

LANE CLOSURE AT ENTRANCE RAMP

LANE CLOSURE AT EXIT RAMP

SHOULDER CLOSURE

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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

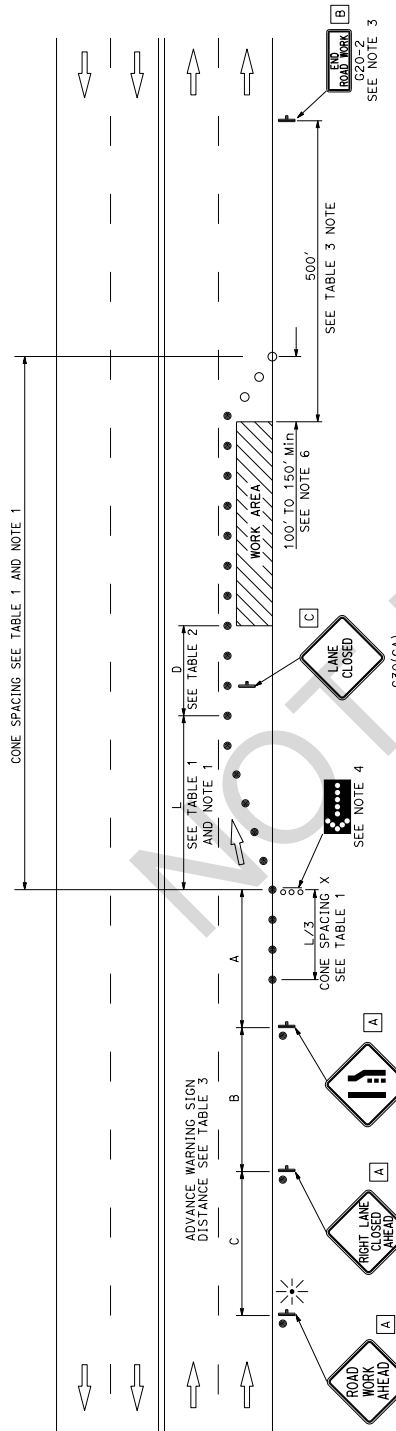
T10

- NOTES:**
1. Portable delineators placed at one-half the distance of cones for daytime closures only.
  2. Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be of 16" x 16" in size. The flags shall be of contrasting colors. The color of the flags shall be placed at the locations indicated for lane closure during hours of darkness.
  3. A 020-2 (800) sign with minimum clearance of 1500' shall be placed at the end of the work area, or ends within the larger project limits.
  4. A minimum 1500' sight distance shall be provided for the advance warning sign. The sign shall be placed at the top of crest vertical curve or at a horizontal curve.
  5. Place a circular sign every 1000' throughout length of lane closure.
  6. A minimum of 3 cones shall be placed transversely where a taper occurs at traffic lane ends, and every 1000' or shown on the Lane Closure detail, in cases where the transverse alignment of the cones or barrier on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
  7. The 2L taper sign along long lines shall be used between the L tapers required for each closed traffic lane.
  8. Use one flashing arrow sign for each lane closed. The flashing arrow sign shall be Type 1.
  9. Median lane closures shall conform to the details as shown, except that circular and W4-2L signs shall be used.
  10. Duplicate sign installations are not required; the available signs remain open to traffic.
  11. In the median is the width of the median shoulder is less than 23', the cones shall be placed in the median and the outside lanes are to be closed.
  12. The ES-1 or SS19(CA) and W4-1 signs shall be used as shown.
  13. A W1-30P NEXT MILESTRIPE sign must be used if the shoulder closure extends beyond the distance that can be perceived by road users.
  14. For the warning sign requirements at the Exit Ramp, when work is processed on the local street, see CA MUTCD Figure 6B-22 to 6B-27.

DIST	COUNTY	ROUTE	FIRST MILE TOTAL PROJECT	SHEET TOTAL NO. SHEETS

**REGISTERED CIVIL ENGINEER**  
*Alta Feroz*  
 No. CB0402  
 Exp. 3-31-19  
 STATE OF CALIFORNIA  
 PROFESSIONAL ENGINEER

MAY 31, 2018  
 DATE OF FINAL DATE  
 THE DATE OF FINAL DATE  
 OF ANY CHANGES SHALL NOT BE RESPONSIBLE FOR  
 THE ACCURACY OR COMPLETENESS OF ANY SHEET  
 COPIES OF THIS PLAN SHEET.



**NOTES:**

See Standard Plan T9 for tables.  
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.  
 Provide at least one person to continuously maintain traffic control devices for lane closures.

**TYPICAL LANE CLOSURE**

**SIGN PANEL SIZE (Min)**

- A 48" x 48"
- B 36" x 18"
- C 30" x 30"

**LEGEND**

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

**NOTES:**

- Portable delineators placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
- Each advance warning sign shall be equipped with at least two flags on any closure. Each flag shall be at least 16" x 16" in size and shall be reflective. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign shall be placed at the end of the lane closure unless the end of work area is obvious or ends within the larger project's limits.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.

- Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work area.
- Length may be reduced by the Engineer to address site conditions.
- Median lane closures shall conform to the details shown except that G20(CA) and W4-2L signs shall be used.
- For approach speeds over 50 MPH, use the "Traffic Control System for Lane Closure on Freeways and Expressways" plan for lane closure details and requirements.

**TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS**

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

NO SCALE

**T11**