

SR-57 Northbound Climbing Lane Widening

AT: Between Lambert Road Undercrossing and 1 km north of Orange County / Los Angeles County line **IN:** Orange County and Los Angeles County, California

NEAR: City of Brea and Orange County and Los Angeles County Line.

I have reviewed the right of way information contained in this Project Report and the R/W Data Sheet attached hereto, and find the data to be complete, current and accurate.

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REGISTERED CIVIL ENGINEER STAMP

12-ORA-57 KP 34.0 to KP 36.3 EA 0C120K July 2001

This Project Study Report has been prepared under the direction of the following registered civil engineer. The registered civil engineer attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based.

Hammer X. Sui

Registered Civil Engineer

7/30/2001

DAIL

1. Introduction

The purpose of this Project Study Report is to program for the design of a climbing lane in the northbound direction of SR-57 Freeway. The project limits are from Lambert Road to approximately 1 km north of Orange County / Los Angeles County line.

In addition to the No-Build alternative, four (4) build alternatives were developed to be presented in this report. Preliminary Environmental Assessment was conducted and documentation was prepared. Tentative project schedules were developed for these alternatives, the cost of each alternative was estimated between \$54 millions and \$77 millions. The proposed project is recommended for project development as a "Category 4A" project as defined in the Project Development Procedures Manual, and for programming as Interregional Improvement Program (ITIP). Possibilities also exist in applying for measure "M" funds and/or Regional Transportation Improvement Program funds.

This project would be eligible for Federal funding. SR-57 connects Interstate 5, 10, and 210, therefore, is on the interstate system but the project would not be an interstate completion nor be considered as new or reconstruction. Therefore, per Federal Highway Administration (FHWA)/California Department of Transportation (the Department) stewardship agreements, this project would be exempt from federal oversight.

2. Background

Current SR-57 geometric configuration consists of two High Occupancy Vehicle (HOV) lanes and 8-mixed flow lanes. Due to the large percentage of existing truck volume and long climbing grade, SR-57 northbound is experiencing a significant level of delay within the project limits. The entire corridor in the northbound direction is affected by this congestion choke point. Orange County Transportation Authority (OCTA) has recently completed an "Operations Enhancement Study of SR-57". The findings from that study ranks this improvement as the first to be implemented along the SR-57 corridor. OCTA supports the Department going forward with the proposed climbing lane widening project, as it opens up the gateway from Orange County to the north into Los Angeles County, addresses interregional congestion and improves mobility between the regions. The Department's District 7 has reviewed the concept of the proposed project and is in support of the project proposal.

This project would be the first of three projects along the northbound SR-57 corridor from Katella Avenue in the south. The City of Brea also expressed strong support for the project since it would improve the Lambert Road northbound on-ramp to SR-57. The proposed project will also address the long existing concerns of a failing slope located between Lambert Road northbound on-ramp and Tonner Canyon Bridge. In addition, there are two other separate projects underway to improve the SR-57 Lambert Interchange. One project would improve the northbound on-ramp. The second project would reconstruct the southbound on and off-ramps and constructs a new northbound loop on ramp. Both of those projects are in the Project Study Report phase as well.

2.1 Previous Studies

Recently Orange County Transportation Authority (OCTA) in partnership with Caltrans District 12 completed a "Operations Enhancement Study of SR-57" (completed March 7, 2001). The "Enhancement Study" concluded that the northbound climbing lane widening project from Lambert Road to past the Orange County / Los Angeles County line would result in significant improvements of freeway operations. Ultimately a 39% reduction in total delay could be achieved.

Attachment A shows the improvements. Furthermore, accompanying other strategic improvements such as a continuous auxiliary lane from Orangethorpe on-ramp to Lambert on-ramp, plus a 4th lane between the westbound SR-91 ramps, as much as 59% of total delay reduction can be realized. **Attachment B** exhibits the improvements with continuous auxiliary lane.

Operational enhancement project studies along SR-57 in the northbound direction are underway with the presumption of that this climbing lane widening project would be constructed. These studies are separated into two segments;

Segment 1 – SR-57/ 5 /22 Interchange north to Orangethorpe Avenue
Undercrossing under contract with Parsons Transportation Group by
OCTA

Segment 2 – Orangethorpe Avenue Undercrossing north to Lambert Road under contract with RBF Consulting by OCTA.

2.2 Other Projects

In 1994, District 12 contracted with Boyle Engineering Corporation to provide plans to repair a segment, approximately 300 meters long of cut slope between the Lambert Road Undercrossing and the Tonner Canyon Road Undercrossing of SR-57. A subcontractor, Ninyo & Moore Inc., prepared a geotechnical report on March 1, 1994, which included preliminary recommendations for repairing of the slope.

Contract (12-059504) was awarded in 1996 to perform minor restoration of the areas where the slumps have occurred. This contract consisted of trimming the lower portion of the cut, reducing the existing 6.0-m wide bench by 1.5-m and blending the new grade with the original contour at the toe of the slope (wedge type grading). A second phase of this contract was to have restored native vegetation to the slope but the contract was terminated due to the failure of the non-engineered fills during a storm in December 1996. Documentation is available in the project folder for this project.

Late 1998, a PS&E project was started for slope stabilization (flatten slope from 1:1.5 to 1:2.5 contract number 12-078404) of the same slope described above. PS&E was halted due to discovery of natural occurring hydrocarbon during the environmental engineering phase. Environmental Engineering is still studying the slope and has not completed its plan to deal with the contaminants. This segment of the freeway is included in the widening project but the treatment of the contaminated soil is being studied under separate efforts with Environmental Engineering Branch. These efforts may be combined into this project if this project is approved for programming.

A High Speed Weigh in Motion System is in the Plans, Specifications, and Estimate stage of the project development process. The contract number for this project is 12-0B1204. This advanced truck weighing system is to be located immediately north of Lambert Road Undercrossing at KP 33.79 (PM 21.00). Embedded axle sensors will be placed in northbound and southbound pavement. Controller cabinet and telephone demarcation cabinet will be placed off the shoulder of northbound side.

Table 1 lists all active projects within the proposed project limits as of July 2001.

3. Need and Purpose

Heavy trucks are slow on long climbing grades, which results in further congestion along SR-57 corridor. The Department performed manual truck traffic counts that indicated that there was over 12% of truck traffic during peak hour and 17.63% truck traffic during midday hour within the project limits. A climbing lane would improve truck traffic travel speed and would increase the throughput of northbound SR-57.

The Department and OCTA has identified SR-57 northbound from Lambert Road Undercrossing to approximately one kilometer north of Orange County/Los Angeles County line as a chokepoint in this major north/south transportation corridor serving Orange County and the region. The Department is preparing this Project Study Report to develop alternative solutions to program available funding for design of a climbing lane in the northbound direction.

"Operations Enhancement Study of SR-57 Between I-5/22/57 Interchange and the Los Angeles County Line" year 2000 traffic conditions were used as the existing conditions for the purpose of this study. The existing northbound Peak Hour volume within the proposed project limits was 6,710 vehicles per hour for the mixed flow lanes and 1,630 for the High Occupancy Vehicles (HOV) lane. The existing northbound average daily traffic (ADT) was 92,840 vehicles per day for the mixed flow lanes and 17,790 for the HOV lane. **Attachment C, D and E** show the Peak Hour, ADT and HOV traffic volume diagrams. This simulation study concluded the existing average travel speed was approximately 10 miles per hour during P.M. peak hour in the northbound direction of SR-57, or equivalent to a Level of Service (LOS) "F".

The forecasted 2020 peak hour volume is 23,558 vehicles per hour. Apply existing directional split of 54% in SR-57 northbound P.M. peak hour, 2020 peak hour volume in the northbound direction will be 12,720 vehicles per hour.

Attachment F exhibits the following:

- i. Manual Traffic Counts
- ii. Congestion Monitoring Data 1999
- iii. Year 2000 15-minute Loop Traffic Data Report

The Southern California Association of Governments (SCAG) Region 1998 Regional Transportation Plan projected that the 2020 daily truck volumes of SR-57 will be 40,000 or more. This makes the SR-57 a major interregional goods movement corridor. **Attachment G** shows the SCAG projected year 2020 truck volume.

Traffic Studies Branch of the Department conducted a research of accidents within the project limits between January 1, 1995 and December 31, 1999. The result shows that the actual accident rate is not higher than the average of similar state highways. There were total of 76 accidents during the period within project limits. Of which, 46% of all accidents involved trucks, 19% of injury accidents involved trucks, and the only fatality occurring during this period involved a truck. Data also shows that the majority of the truck-related accidents occur on weekdays, during daylight hours, under dry pavement conditions. All accidents were non-alcohol related. The majority of the accidents occurred during morning and afternoon peak periods. Predominant accident locations were in the right lane.

One additional climbing lane potentially would be capable of improving the safety of the traveling public. A larger percentage of the heavy vehicles and slower traffic is expected to use the climbing lane, hence, reduce the percentage of the truck/passenger car mix within the proposed project limits. Traffic Accident Surveillance and Analysis System Table B is included in **Attachment H**.

4. Alternatives

The existing SR-57 facility consists of 8+2 HOV lanes. Widening the existing freeway would remove the current traffic congestion chokepoint. The following alternatives were developed for the continuous climbing grade in the northbound direction. Typical cross sections, ramp profiles, and layout plans are included in **Attachment I**. Project limits are from SR-57 Lambert Road Undercrossing to approximately 1100--m north of Orange County/Los Angeles County line in all alternatives. In alternatives 2, 3, and 4 discussed below, the SR-57 mainline was proposed widening to accommodate two future traffic lanes where in Alternative 1 one future lane was proposed. The geometric design of the Lambert Road northbound on-ramp and the Tonner Canyon northbound off-ramp described in Alternative 1 would apply to all alternatives. The Department's area maintenance unit requested a 5.5-m shoulder at retaining wall locations for the accessibility of motorized cleaning equipment. This request was accommodated in all alternatives due to this area frequently experiencing slope surface slides.

The left shoulder is proposed to keep the existing 0.6-m from the median barrier for all alternatives. Physical constrains created by the steep existing cut slopes, larger environmental impact, and tremendous additional construction cost derived this decision. A Fact Sheet of mandatory design exception has been prepared.

The Department's Division of Structures performed an Advanced Planning Study for the Tonner Canyon Road Undercrossing widening and the soil nail earth retaining walls on cut slopes. In this planning study, Alternative 2 – two-lane bridge widening would also be applicable to Alternative 3, and 4. The structures advanced planning study plans are included in **Attachment J**.

4.1 Minimum Build Alternative - Alternative 1

One-lane widening with retaining walls — Construct one additional 3.6-m lane with 5.5-m shoulder where retaining wall would be required in SR-57 northbound. Widen Tonner Canyon Bridge for one additional 3.6-m lane with 3-m right shoulder plus 1.2-m buffer between HOV lane and the mix-flow lanes. Construct soil nail retaining walls for all cut slopes, Mechanically Stabilized Embankment (MSE) at the fill slope for Tonner Canyon Bridge south abutment with minimum grading.

Alternative 1 would realign and widen northbound on-ramp at Lambert Road. The design provided three metered lanes (10.8 m) on the ramp with 1.2-m shoulder on both sides, as well as the needed storage length to relieve peak hour traffic congestion on Lambert Road. The ramp termini would be held as existing at Lambert Road.

Realignment of SR-57 northbound off-ramp at Tonner Canyon Road to accommodate the added climbing lane would also be required. The slope at the off-ramp left shoulder would be graded back at 1:2 to allow the ramp realignment. Grading in this area would be within the existing Right of Way. The proposed design holds the exiting ramp geometry at the ramp termini at Tonner Canyon Road. The ramp was designed with a Portland Cement Concrete (PCC) structural section with Asphalt Concrete shoulders.

This alternative would require approximately 403 square meters additional right-of-way at Tonner Canyon Creek for bridge widening.

There would be seven retaining walls required in this alternative. Retaining Wall 2 would be on embankment; remaining walls would be on cut slopes. Layout sheet L-1 through L-12 is included in Attachment I and the estimated cost of this alternative is as follow:

R/W Cost = \$0.73 million

Environmental Mitigation Cost = \$8.13 millions

Roadway Items Cost = \$14.37 millions
Retaining Wall Cost = \$16.7 millions
Bridge Cost = \$1.6 millions

The Department completed a geotechnical investigation within the project limits. Upon the completion and availability of the Geotechnical Recommendations Report, slope stabilization measures would recommend whether the existing cut slopes soil conditions permit the type of proposed retaining walls would be determined.

4.2 Alternative 2

Two-lane widening with retaining walls - Construct two additional 3.6-m lane with no shoulder, but widen to allow a 5.5-m shoulder to be constructed in the future from the Lambert Road Undercrossing to approximately 1100-m north of Orange County/Los Angeles County line. Widen Tonner Canyon Bridge for two additional 3.6-m lanes with a 3-m right shoulder, plus a 1.2-m buffer between the HOV lane and the mixed-flow lanes and construct the Soil Nail retaining walls for the cut slopes at the proposed edge of shoulder. Type 60D concrete barrier (see the Department's Standard Plans for details) would be utilized at the retaining wall face in all alternatives.

This alternative would require approximately 653 m² additional right-of-way at Tonner Canyon Creek for bridge widening.

There would be six retaining walls required in this alternative. The Retaining Wall 2 would be on embankment; the remaining walls would be on cut slopes. Due to the height and soil conditions, headquarters Structure Advanced Planning Studies recommends the use of the Soil Nail earth retaining system on the cut slopes and the Type I retaining wall on piles for the embankment Wall 2. The existing slopes beyond the retaining wall limits would remain undisturbed in this alternative.

New pavement limits would be from the existing Edge of Traveled way (ETW) to the new ETW covering the two new lanes. Pave only the traveled lanes, using the outside future lane as the interim shoulder. A swale would be graded within the 5.5-m unpaved section to help drainage. With this configuration, the interim shoulder would have a 2% cross-slope Since is would be a future lane. The cross-slope on the new traveled way pavement section should be investigated further in the design phase, perhaps sloping the outer lanes at 2.5% to 3% would help keeping the water off the pavement. If a 2.5% to 3% cross-slope would be desirable, a mandatory design exception is required. This suggestion applies to all alternatives. Layout plan sheets L-1 through L-12 are included in Attachment I.

The estimated cost of this alternative is as follow:

R/W Cost = \$0.98 million

Environmental Mitigation Cost = \$8.45 millions

Roadway Items Cost = \$17.81 millions Retaining Wall Cost = \$22.6 millions Bridge Cost = \$2.4 millions

4.3 Alternative 3

Retaining Walls and flat slope - Applying the same geometric as Alternative 2, but with grading of the cut slopes to 1:2.5 or flatter where possible. Maintain top of slopes between 3.0-m to 17.0-m to the existing Right of Way fence and compact the soil to create a "cap" for the slope per previous geotechnical recommendations made by Ninyo & Moore Inc. in the 1994 study. A 10.0-m Temporary Grading / Construction Easement would be required from STA 219+80 to STA 228+00. Grading the hill to 1:2.5 slope between the SR-57 freeway and the Brea Olinda High School between STA 222+80 to STA 225+00 would cause the toe of cut slopes encroach the Brea Olinda High School property line. Other construction requirements would be buttress fill at the slope failure located near station 224+00 and the grading of a bench at the top of slope with access from the Lambert Road on-ramp. SR-57 mainline north of Tonner Canyon Road in Alternative 3 would be very similar to Alternative 2.

The Department's Environmental Engineering Branch has conducted an initial site assessment and determined that no freeway noise will impact the High School and no soundwall would be required.

The Layout sheets L-1 through L-12 are included in Attachment I and the estimated cost of this alternative is as follow:

R/W Cost = \$1.13 millions

Environmental Mitigation Cost = \$11.67 millions

Roadway Items Cost = \$29.93 millions Retaining Wall Cost = \$14.24 millions Bridge Cost = \$2.4 millions

4.4 Alternative 4

Widen southbound side fill slope, realign SR-57 mainline north of Tonner Canyon off-ramp This alternative would combine with Alternative 2 from the Lambert Road Undercrossing to approximately 380-m north of the Tonner Canyon Bridge. Alternative 4 layout sheets L-1 through L-5 and L-7 are the same as Alternative 2 plans; therefore, reference Alternative 2 plans. Alternative 4 plan sheets L-6, L8 through L-12 are included in Attachment I. In this alternative the existing SR-57 centerline alignment would be shifted approximately 10.0-m to the west, widen the southbound side fill slope, construct the Mechanically Stabilized Embankments (MSE) at the edge of shoulder. In addition to the widening for the northbound climbing lanes, one extra lane would be provided for southbound future widening. This traveled lane would be paved and used as a interim shoulder. There would be a 3.0-m wide unpaved section for future shoulder.

At the proposed SR-57 centerline, the Type 60GC median concrete barrier would be employed to accommodate approximately 300-mm grade separation between the northbound and the southbound roadway. The existing median shoulders would be replaced with Portland Cement Concrete (PCC) pavement or Asphalt Concrete (AC) pavement to match existing. The type of pavement section would be determined by matching with the adjacent existing traveled lane pavement. The Southbound side pavement section would apply the same strategy of removing the existing shoulder and constructing proposed pavement matching the existing pavement type.

The environmental impact would be addressed during the project approval phase of the project initiation and development processes.

R/W Cost = \$0.98 million

Environmental Mitigation Cost = \$8.06 millions

Roadway Items Cost = \$23.36 millions Retaining Wall Cost = \$15.89 millions Bridge Cost = \$2.4 millions

4.5 Other Concepts Considered

During the project study phase additional concepts and a number of potential candidate alternatives were developed and determined not cost effective. These concepts include:

- 4.5.a Maximum Grading Apply the same Geometric as in Alternative 2, grade the cut slopes at 1:2.5 to daylight. This concept explored the maximum Right of Way impact and environmental impact as displayed in Exhibit 1
- 4.5.b Wall on slope Apply the same Geometric as in Alternative 2, construct retaining wall on the graded 1:2.5 slope where the wall would be placed 38-m (median distance from proposed toe of slope to existing Right of Way) away from the proposed edge of shoulder. This proposal held the top of slope (slope is also 1:2.5) 3-m to existing R/W line.
- 4.5.c Raised CD Road Typical cross section of this concept is shown in Exhibit 2. Immediately after Lambert Road undercrossing create a single lane exit ramp from the mainline. Raise the profile after the exit-nose to join with the northbound on-ramp adding one more lane. Continue to raise this two-lane collector-distributor road to approximately 2 to 3 meters above the existing northbound roadway centerline profile. This concept limited the access to Tonner Canyon Road.
- 4.5.d Two Walls on Slope Apply the same Geometric as in Alternative 2; construct two retaining walls on the graded 1:2.5 slope. As illustrated in Exhibit 2, the lower wall would be at the proposed edge of shoulder, while the higher wall would be located in the middle of the cut slope. The purpose of introducing this concept is to reduce the wall height in comparison with Alternative 2.
- 4,5,e Separate NB Profile Construct a retaining wall in the median of the existing freeway, raising the full width of the northbound roadway approximately 3.0 meters beginning at the Lambert Road Undercrossing. This would allow widening as Alternative 2, at the same time, greatly reducing retaining wall height. The slope flattened back to 1:2.5 to the existing Right of Way line where possible, and the excavated earth would be used as embankment material.
- <u>4.5.f</u> <u>Double Deck</u> Construct an elevated viaduct on top of the existing freeway in the northbound direction to increase the through traffic flow rate.
- 4.5.g Half Tunnel Construct half tunnel contain two traveled lanes with 1.5-m left shoulder and 3.0-m right shoulder. Allow 3-meter shoulder between the tunnel and the existing freeway. The tunnel top would be open on the side of existing freeway with columns and arches evenly spaced. On the cut slope side, the tunnel top would be enclosed and the side would be formed by retaining wall.

4.6 No Build Alternative

No build - This alternative would create a standstill condition for the design year 2026. Using the OCTA recent Operations Enhancements Study as a reference, the existing average travel speed along SR-57 corridor northbound is at about 10 miles per hour during the peak hours. With peak hour volume nearly doubling, the peak duration would extend to 3 to 4 hours in both morning and evening. There would also be developments occurring near the Tonner Canyon Road Undercrossing. Tonner Hills development project proposed by the Nuevo Energy Company, for example, is already in the Environmental Study stage at the time this report is prepared. This would make future R/W acquisition very costly if not impossible.

4.7 Analysis of Proposal

The forecasted 2020 peak hour volume would be 23,558 vehicles per hour. Apply existing directional split of 54% in SR-57 northbound P.M. peak hour, 2020 peak hour volume in the northbound direction would be 12,720 vehicles per hour. The Department's System Planning Branch extrapolates traffic volumes using a growth factor to 2026 for 20 years after completion of the proposed construction. In 2026 null scenario, the ADT is forecasted to be 180,700 vehicles per day in northbound; in Concept scenario, the ADT would be 168,300 vehicles per day.

Alternative 1 – add one lane - This alternative would set the ultimate capacity of SR-57 to 1 HOV + 4 Mixed flow lanes + 1 climbing lane in the northbound direction. It would not be economically or technologically justifiable to replace these retaining walls for widening again in the future. The estimated cost of this alternative is not significantly lower than the "add 2 lanes" alternatives.

Alternative 2 - add two lanes - Depending on the geotechnical recommendations from April 2001 geotechnical investigation, slope stabilization measures might be required for the existing cut slopes before a retaining wall would be permitted. For segments where geotechnical data would not support a surcharged soil nail wall, slope stabilization means such as evenly spaced soil nails may need to be introduced, or the application of Alternative 3 (discussed in section 4.3) could be an alternative.

Alternative 3 - add two lanes - In comparison with Alternative 2, this alternative could reduce retaining wall heights and lengths at three locations, thereby, reducing the cost of retaining walls by \$11.6 millions. The same benefits could not be obtained on the cut slope north of Tonner Canyon Road due to the height of the existing slope. One of the goals of this alternative would be to construct retaining walls only as necessary to keep cut slopes within existing Right of Way. Retaining wall locations are generally the same as in Alternative 2 with reduced length and height. Nevertheless, the roadway construction cost of this alternative increased by \$12.1 millions compared to Alternative 2 due to the increased earthwork. The estimated environmental mitigation cost also increased over \$3.2 millions to \$7.4 millions. In addition, the hazardous material mitigation may cost \$4.2 million.

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Alternative 4 - add two and three lanes - This alternative eliminates the need of a 960-m long, and a 70-m long retaining wall on the cut slopes north of Tonner Canyon off-ramp. By shifting SR-57 centerline approximately 10-m to the west, widening the southbound side fill slope and constructing Mechanically Stabilized Embankments, the needed pavement width would be achieved.

The advantages of this alternative would be minimizing construction impact on corridor operations; construction of the MSE widening would be cost-effective compared to the soil nail retaining wall on cut slopes. In addition, this alternative would offer one additional lane in the southbound direction between Sta. 236+00 to Sta. 250+22 for future widening; and better earthwork balance by allowing contaminated cut material from the northbound slopes to be placed as backfill for the widened section along the southbound lanes. In the Environmental Document phase of the project would address this idea and could possibly save significant portion of hazardous material mitigation cost. Grading of one additional lane in the southbound direction for future widening would also be in conformance of the Transportation Concept Report.

During the course of the SR-57 northbound climbing lane widening study, the project was identified as a candidate for a Value Engineering Analysis. Since the project has not been programmed, it is recommended that the value analysis be postponed to the Project Report phase. This recommendation was made because the project is in the proposal stage, and is lack of geotechnical recommendations, and the type of retaining walls could not be determined for the value analysis.

4.8 Costs

Preliminary construction costs were estimated on four viable alternatives 1, 2, 3, and 4. The estimated categories include, Roadway, Structures (bridges and retaining walls), Right-of-Way, and Environmental Mitigation, Itemized cost details are presented in **Attachment K**, summaries are tabulated in the following Tables 2, 3, 4 and 5.

Table 2 Roadway Cost Estimate (Current \$)

	Alternative 1 (add 1 lane)	Alternative 2 (add 2 lanes)	Alternative 3 (add 2 lanes)	Alternative 4 (add 2&3 lanes)
Structures Bridge Retaining Walls	\$1,600,000 \$16,700,000	\$2,400,000 \$22,600,000	\$2,400,000 \$14,240,000	\$2,400,000 \$15,890,000
Roadway Items	\$14,374,000	\$17,810,000	\$29,934,000	\$23,365,000
Support Cost	\$12,581,000	\$16,142,000	\$17,813,000	\$14,988,000
Subtotal	\$45,255,000	\$58,952,000	\$64,387,000	\$56,643,000

Table 3 Right-Of-Way Cost Estimate (Current \$)

	Alternative 1	Alternative 2	Alternative 3 (ALT. 2A on Data Sheet)	Alternative 4
	(add 1 lane)	(add 2 lanes)	(add 2 lanes)	(add 2&3 lanes)
R/W	\$733,700	\$986,000	\$1,129,000	\$986,000

Table 4 Environmental Cost Estimate (Current \$)

	Alternative 1 (add 1 lane)	Alternative 2 (add 2 lanes)	Alternative 3 (add 2 lanes)	Alternative 4 (add 2&3 lanes)
Environmental Bio Mitigation Hazardous Mat.	\$3,931,000 \$4,200,000	\$4,246,000 \$4,200,000	\$7,471,000 \$4,200,000	\$3,856,000 \$4,200,000
Subtotal	\$8,131,000	\$8,446,000	\$11,671,000	\$8,056,000

Table 5 Alternative Cost Summary (Current \$)

	Alternative 1 (add 1 lane)	Alternative 2 (add 2 lanes)	Alternative 3 (add 2 lanes)	Alternative 4 (add 2&3 lanes)
Preliminary Estimated Total	\$54,120,000	\$68,384,000	\$77,187,000	\$65,685,000

Table 6 Support Cost (Alternative 4)

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SB45	HOURS	PY'S	98/99	99/00	00/01	01/02	02/03	03/04	04/05	05/06 +
ENVIR	16,209	9.22			333	447	6,059	3,015	2,045	4,311
PS&E	112,315	63.89			666	893	6,208	4,290	44,942	55,316
R/W	15,462	8.80			333	447	447	555	7,067	6,614
CONSU	93,230	53.03			333	447	447	448	447	91,109
TOTAL=	237,217	134.94			1,664	2,234	13,160	8,308	54,501	157,350

\$ 86,552.52 \$ 120,210.94 \$ 733,066.21 \$ 479,008.74 \$ 3,252,111.64 \$ 10,317,103.44

\$ 14,988,053

5. System Planning

District System Management Plan —Routes 57 improvements from I-5/22/57 interchange to Los Angeles County line and freeway extension to Interstate 405 were studied. The proposed project complements District 12 SR-57 freeway Transportation Concept Report. The concept report described that the existing 10-lane facility (2 HOV + 8 mixed-flow) was operating at Level of Service (LOS) "F0" during peak hour in 1997. The report further projected that in 2020 with 2 HOV lanes + 8 mixed-flow lanes + 2 lanes + auxiliary lane configuration, peak hour LOS would be "F2". The Department is currently developing a strategy emphasizing system management and operational improvements of our existing freeway system optimizing the capacity. This strategy is referred to as Traffic Operations Strategies (TOPS). TOPS maximize the utilization of the existing urban freeway system through performance-based investment strategies. If fully implemented, the concept for this route could be improved to a Level of Service "E".

SR-57 serves as a major goods movement corridor. From SR-91 north to SR-60, there is a large presence of commercial and industrial developments adjacent to SR-57 and near Imperial Highway. Manual truck traffic-counts results showed 11.98% of trucks volume during peak hours between Lambert Road and Los Angeles County line. The highest hourly truck count revealed truck traffic as high as 17.6% midday.

SR-57 connects SR-60, Interstate 10, Interstate 210 northerly in Los Angeles County, SR-91 in the middle, Interstate 5, SR-22 and 55 southerly in Orange County. The proposed project would be located at the Orange County and Los Angeles County line and would serve as an essential element – a gateway to the north of the entire corridor in Orange County.

Recent OCTA study indicated that a number of operational improvements project studies for SR-57 northbound are underway (contracted to consultants by OCTA) with the assumption of this proposed climbing lane widening project would be constructed. These OCTA contracted projects include additional auxiliary lane(s) at SR-91 between the eastbound and the westbound connectors, and from Imperial Highway to Lambert Road Undercrossing. The proposed climbing lane widening project would serve as a gateway of Orange County north to San Gabriel Valley and Inland Empires, and would be integrated with other state highway improvements. The OCTA "SR-57 Operation Enhancements Study" concluded that the climbing lane project would result in significant improvements of travel speeds along the corridor-approximately 75% to 115% increase in average travel speed over existing conditions and a reduction in total delay by 39% to 59%.

The Department is studying direct HOV connection to and from SR-60 east of SR-57. The direct HOV connection project would further enhance the mobility of these two corridors by reducing weaving movements, thus reaching better overall level of service. The direct HOV connector project is not currently programmed.

Orange County Transportation Authority is also proposing a Centerline Rail Transit system, which will connect Fullerton, Anaheim, Santa Ana, Irvine, and Lake Forest. This system is intended to relief the North-South congestion. When this system is complete and operational, an extension of the Centerline from the City of Fullerton to the City of Walnut could provide an interregional multimodal transportation system for the San Gabriel Valley and the Inland Empire to south Orange County commuting public. Currently Walnut has Metro Link east-west alignment station.

6. Hazardous Waste

A portion of the SR-57 cut slope, between Lambert Road and Tonner Canyon, contains naturally occurring petroleum hydrocarbons. The slope in this area has been experiencing failures due to the unstable soil conditions.

The Department's Environmental Engineering Branch (EE Branch) is currently conducting subsurface Site Investigation (SI) in order to evaluate the nature and extent of the contaminated area. As a part of this investigation, EE Branch performed a few deep drillings along the slope and collected soil samples. The collected samples were tested and a SI report containing test results is being prepared. In order for EE Branch to generate remedial measure alternatives for the impacted soil in this area, the SI report would have to be submitted to regulatory agencies for review and recommendations. Once the regulatory agency provides the review comments, EE Branch would then be in a position to evaluate alternatives for handling the contaminated soil. Consequently, the associated cost for remedial or disposal of the contaminated soil would be estimated and included into the total cost of the climbing lane widening project. Currently, the estimated amount for the Hazardous Waste related work is \$4,200,000, which may need to be revised once the assessment of the impacted soil is finalized.

Lead Investigation

The soil in unpaved areas next to the traffic lanes or shoulders might be contaminated with the Lead from vehicle emissions. Soil samples would be collected, tested and analyzed for lead contamination during the Plans Specification & Estimate (PS&E) phase of the project development process. The EE Branch would conduct the Lead Investigation during the early stage of design since the typical lead investigation process takes about four to six months. It would be essential that the Design Branch provide EE Branch with two sets of the plans showing the limits of the excavation at the early stage of PS&E for lead investigation. If lead contamination were found, the results/conclusions would be included in the PS&E package.

7. Traffic Management Plan

Traffic Management Plan (TMP) was developed to manage the traffic during construction. SR-57 during construction, all lanes would be delineated to 3.35-m in width, shoulders would temporarily be removed except where horizontal curves exist, HOV lane buffer would temporarily be reduced to 0.3-m. Type K temporary railing would be employed to protect the construction zone. Full freeway closures would not be expected for this project; however, localized temporary lane closure of up to 2 mix flow lanes on the right side from 10:00 P.M. to 5:00 A.M. would be expected at the beginning of the project. These off peak closures would offer the window to construct a temporary shoring 4.0m from the existing edge of Shoulder. In Attachment I, construction-staging plan SC-1 shows preliminary staging concepts.

The Transportation Management Plan would be developed during design to identify methods that would minimize construction impact on traffic. Up to six (6) Fixed and/or Portable Changeable Message Signs would be expected through out the construction phase. Construction area signs, Detour signs, Freeway service patrol, COZEEP/ CHP Support, Traffic Management Center, Traffic Signal Modifications, Traffic Management Team, and Public Awareness would all be integral parts of this effort. Implementation for the proposed Traffic Management Plan is estimated at approximately \$365,000.

8. Environmental Determination

The preliminary investigation of the proposed project focused on the direct impacts regarding a build alternative, typically from median of the highway to the top of the slope on either side. The potential for adverse impacts in this environmentally sensitive area would affect the viability of alternatives and involve extensive studies and time-consuming processes that could effect schedules. The anticipated documentation for CEQA and NEPA compliance would be an Environmental Impact Report/Environmental Impact Statement (EIR/EIS), with Caltrans as the Lead Agency for CEQA and Federal Highway Administration (FHWA) as the Lead Agency for NEPA. The EIR/EIS could require three years to prepare without extensive studies or time-consuming processes.

The reviews for biological concerns, cultural resources, and hazardous materials identified potential issues that could affect cost and/or schedules. The environmental setting includes Endangered Species (Federal and State), Species of Concern, and would require a Biological Assessment and Wetland Delineation, incorporated into a Natural Environmental Study (NES). The NES could help identify mitigation for temporary and permanent impacts. Reasonable mitigation costs are generally considered to be up to 10% of the project cost. For this project, biological mitigation could include California Gnatcatcher exclusion, restricted construction scheduling, habitat enhancement, habitat restoration, or habitat replacement. Special considerations for the following processes have the potential to complicate, slow, and essentially lengthen the environmental process. For this project special considerations may entail; Section 7 Coordination, bird surveys, turtle surveys, wetland delineation, coordination with several resource and/or regulatory agencies, possible NEPA 404 Coordination, and adherence to the Migratory Bird Treaty Act.

Time constraints for performing the surveys required in the NES are dictated by the regulatory agency and seasonal conditions. Surveys can require one to three years. Excluding the cost for surveys, permits, and monitoring of the mitigated areas; the biological issues could cost \$4,756,000. There appears to be no cultural resources located within the project limits; however, the presence of fossil fuels could suggest paleontological resources. Hazardous waste may occur within the project limits. An Initial Site Assessment would report the findings and confirm or negate an added \$4,200,000 for Hazardous Waste to the project cost making the mitigation costs \$8,900,000.

The following table presents the anticipated permits required for this proposed project.

and Wildlife Service
rtment of Fish and Game
Corps. of Engineers
a RWQCB
a RWQCB
Corps. of Engineers

Resource Agency

For more detailed information please review **Attachment L**, which is the Preliminary Environmental Assessment Report.

9. Right of Way

Regulation and Description

Tonner Canyon Bridge widening would require additional right-of-way. Temporary Construction Easements would be required from the Nuevo Energy Company for work adjacent to the south bridge abutment. One lane widening concept would require 403 m² additional R/W, and the two lane widening concept would require 653 m² additional R/W. Temporary Construction easements

would also be required at numerous locations for grading purposes. These areas were identified on the layout plans. There would also be extensive utility involvement as outlined in Attachment M.

The County of Orange issued a Notice of Intent to Prepare Environmental Impact Report (EIR) #581 on March 27, 2001. The Tonner Hills Specific Plan Environmental Impact Report is a proposed project, which involves a comprehensive plan to reuse 789.8 acres of land that has been used for oil and gas production for approximately 100 years. This project boarders with SR-57 R/W on both northbound and southbound between Tonner Canyon Road and Lambert Road Undercrossing. The Department's Project Studies Branch reviewed and commented on this notice via inter governmental review process.

Temporary construction easement would be required for grading purposes at the top of slope north of Lambert Road Undercrossing. The Department's right-of-way abuts the Olinda High School from approximately Station 221+00 to 228+00 of SR-57. Uniformly 10-m (15-m for sta. 222+40 to 225+00) of Temporary construction easement would be required for Alternative 3 construction.

For detailed information, refer to **Attachment M** - Right of Way Data Sheet. The Alternative 2A in the Right of Way Data Sheet is referred as Alternative 3 in this report.

There would be no Railroad involvement for the proposed project.

10. Construction

10.1 Staging and Detours

Lambert Road northbound two lane on-ramp would remain operational during its realignment and widening construction. Temporary night closures would allow traffic shifts from existing ramp alignment to the easterly half of the proposed ramp. Prior to construction, the oil well and oil pipelines would need to be protected in place. Tonner Canyon Road off-ramp will remain open with a minimum of one lane during the realignment. Temporary ramp closure would be anticipated for the duration of weekend days. This period would be required for the bridge abutment widening grading work and ramp realignment construction. In the event of prolonged ramp closure, detours would be available as illustrated in Figure 1 and Figure 2 below.

The following is anticipated construction staging sequence for Tonner Canyon off-ramp realignment:

- Mobilization
- Implement Traffic Management Plan
- Re-delineate freeway within the project limits
- Clearing & Grubbing, existing features removal and salvage
- Structures Construction
- Close the left lane of the Tonner Canyon off-ramp setup Type K barrier on the existing station line
- Slope excavation would take place first to the off-ramp left shoulder
- Grading and paving portion of new ramp
- Shift traffic to the new ramp with one lane open
- Grading and paving remaining portion of new ramp

Within the Tonner Canyon off-ramp loop area, approximately 13,000 m² space may be usable for storage by the contractor. In addition, under the undercrossing structure about 3,000 m² would be available for construction site office plus equipment yard use.

Alternative 4 staging would occur in south and north segments. The south segment begins with the Lambert Road on-ramp to the north of Tonner Canyon Road off-ramp at Station 235+40, where the north segment begins at Station 235+40 to the end of the project in Los Angeles County. The south segment would utilize the same methods to construct Alternative 2. The first stage of the north segment would construct the MSE Walls 4 and 7 to achieve the roadway width. Next stage would be constructing the southbound widened pavement section between STA. 236+40 and STA. 250+22; then, shift traffic to the newly constructed southbound roadway, begin construct the median pavement; finally shift northbound traffic to its new roadway, and construct northbound side soil nail Walls 5 and 6. Construction staging would be studied further in the design phase.

Detours

Tonner Canyon off-ramp detour from Lambert Road exit ramp (Figure 1):

- SR-57 northbound Exit Lambert Road going west
- to State College Blvd. going northwest
- to North Brea Blvd. going north to Tonner Canyon Road

Tonner Canyon off-ramp detour from Diamond Bar Blvd. exit ramp (Figure 2):

- SR-57 northbound Exit Diamond Bar Blvd. going east
- to Brea Canyon Road going south
- to Tonner Canyon Road



Figure 1 Tonner Canyon Ramp Detour Map (from Lambert Road exit ramp)

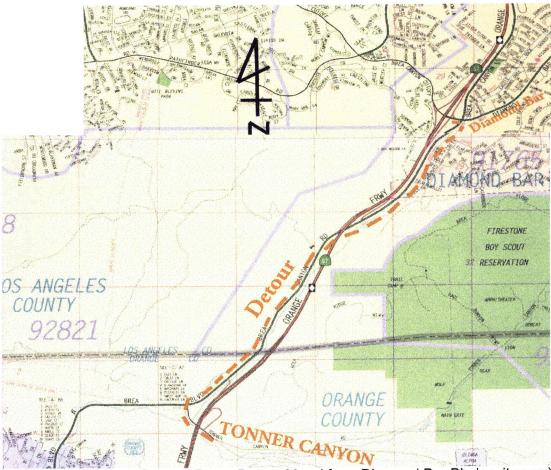


Figure 2 Tonner Canyon Ramp Detour Map (from Diamond Bar Blvd. exit ramp)

10.2 NPDES Permit Compliance Requirements

National Pollutant Discharge Elimination System (NPDES) permit is required for construction projects. The storm water pollution control provisions are provided in the Department's Manual "Storm Water Quality Handbooks – Project Planning and Design Guide", Section 2, Storm Water Quality Considerations during Project Planning. For ease of reference, below an attachment is also included herewith, which outlines NPDES Provisions.

NPDES PROVISIONS

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

Contractor shall fully conform to the requirements of the Caltrans Statewide National Pollutant Discharge Elimination System (NPDES) Storm Water Permit, Order No. 99-06-DWQ, NPDES No. CAS000003, adopted by the State Water Resources Control Board on July 15, 1999. When applicable, the contractor shall also conform to the requirements of the General NPDES Permit for Construction Activities, Order No. 99-08-DWQ, NPDES No. CAS000002, and any subsequent General Permit in effect at the time. These permits regulate storm water and non-storm water discharges associated with year-round construction activities. Please note that the Santa Ana Regional Water Quality Control Board has designated October 1st through May 1st as the "Rainy Season".

For all projects resulting in 2 hectares (5 acres) or more of soil disturbance or otherwise subject to the NPDES program, the Contractor shall develop, implement, and maintain a Storm Water Pollution Prevention Plan (SWPPP) conforming to the requirements of the Caltrans Specification Section 7-1.01G "Water Pollution Control", Caltrans Statewide NPDES Permit, the General NPDES Permit for Construction Activities, and Caltrans Storm Water Quality Handbooks "Storm Water Pollution prevention Program (SWPPP) and Water Pollution Control Program (WPCP) preparation Manual" and Construction Site Best Management Practices (BMPs) Manual" effective November, 2000 and subsequent revisions.

For all projects resulting in less than 2 hectares (5 acres) of soil disturbance or not otherwise subject to the requirements of the NPDES program, the Contractor shall develop, implement, and maintain a Water Pollution Control Program (WPCP) conforming to the requirements of Caltrans Standard Specifications Section 7-1.01G, "Water Pollution Control", and "Caltrans Storm Water Quality Handbooks "Storm Water Pollution Prevention Plan (SWPPP) and Water Pollution Control Program (WPCP) Preparation Manual" and Construction Site Best Management Practices (BMPs) Manual" effective November, 2000 and subsequent revisions.

Copies of the Permits and the Caltrans Storm Water Quality Handbooks may be obtained from the Department of Transportation, Material Operations Branch, Publication Distribution Unit, 1900 Royal Oaks Drive, Sacramento, California 95815, Telephone: (916) 445-3520. Copies of the Permits and Handbook are also available for review at Caltrans District 12, 3351 Michelson Drive, 3rd floor, Irvine, California 92612, Telephone: (949) 724-2188. Copies of the manuals may also be obtained from the Department's Internet Web Site at: http://www.dot.ca.gov/hq/construc/stormwater.html

NPDES Budgetary Cost Estimate

In order to establish a budgetary cost, the engineer should calculate the area of disturbance and determine the type of water pollution control document to be prepared for the project. If the area of disturbance is less than 5 acres, (1 acre for projects with a construction completion date after March 2003), a Water Pollution Control Program (WPCP) is required. If the area of disturbance is more than 5 acres, (1 acre for projects with a construction completion date after March 2003), a Storm Water Pollution Prevention Plan (SWPPP) is required. The proposed project has a total disturbed area approximately 23 acres. Thus, SWPPP would be applicable to this project.

SWPPP - Preparation

Section 2.5.1 of the above referenced manual suggests budgetary cost estimate for SWPPP Preparation to be about \$5,000 to 10,000, plus \$200 for each water pollution control sheet. A budgetary estimate of \$7,500 would be suggested for this item.

SWPPP - Implementation

Section 2.5.2 of the above referenced manual suggests budgetary cost estimate for SWPPP implementation to be between 2% and 5% of the total construction cost, depending on project location and type and complexity of project as shown in Table 2-5 of the above referenced manual. Based on the estimated total roadway item cost, for budgetary estimate roughly 2% should be adequate for SWPPP implementation.

11. Funding/Scheduling

This project is considered as a "Category 4A" project for project development category assignment. The 2002 State Transportation Improvement Program (STIP) in the Interregional Transportation Improvement Program (ITIP) should fund the proposed project under program code 20.50.025.714. Funding may also be available through the State Highway Operation and Protection Program (SHOPP), as non-capacity increasing operational improvement project, or apply for local Measure "M" funding. The proposed construction begins fiscal year 2005/2006.

Interregional Transportation Improvement Program (ITIP) should be considered, as SR-57 is becoming increasingly important on goods movements. And the route will be carrying over 40,000 trucks a day by year 2020, as forecasted by the Southern California Associated Governments in April 1998 Regional Transportation Plan. This climbing lane widening is critical to be implemented now in order to facilitate the forecasted truck volume between the Orange County and Los Angeles regions.

Other funding sources should be considered are Orange County Measure "M" and the Regional Transportation Improvement Program. In the event that the current RTIP allocated to transit becomes available for highway use, this project has high priority for inter-regional goods movement. Table 6 shows the support cost distribution per Fiscal Year of Alternative 4.

In addition, Congestion Mitigation and Air Quality Improvement Funding (CMAQ) should also be utilized as this project enhances operation and reduces emission. This must be analyzed further in the Project Report and alternative analysis phase of the project initiation and development process. "Methods to Fund the Cost Effectiveness of the Funding Air Quality Projects" has been prepared as a guide for the preparation of an emission reduction analysis and can be found on California Department of Transportation website at (www.dot.ca .gov/hq/transprog/).

12. Recommendations

It is recommended that capital support costs for the next phase of this project be programmed. Support cost covers all alternatives studied until the PA&ED defines a preferred alternative.

13. DISTRICT CONTACT

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Saied Hashemi Chief, Traffic Operations North	(949) 724-2525
Leslie Manderschied Chief, Environmental Planning, Branch B	(949) 724-2122

APPROVAL RECOMMENDED BY:

Construction Administration

SAIED HASHEMI Branch Chief, Traffic Operations North District Program Advisor	DATE: 8/22/2001
14. CONCURRENCE: CLARENCE OHARA Office Chief	DATE: <u>83</u> 6
JAMES BEIL Deputy District Director Program/Project Management	DATE: 8-6-01
Yail Farler	DATE: 9-13-01
GAIL FARBER Deputy District Director Planning	DATE: 9/13/01
Acting Deputy District Director Operations and Maintenance FRANK LIN	DATE: 9/13/01
Office Chief Design	DATE: <u>8-22-0/</u>

15. Reference

1.	November 1989	Caltrans District 12 DISTRICT SYSTEM MANAGEMENT PLAN
2.	1992 Draft	Caltrans District 12 DISTRICT SYSTEM MANAGEMENT PLAN
3.	January 1991	Caltrans District 7 SR-57 ROUTE CONCEPT REPORT
4.	July 1999	Caltrans District 12 TRANSPORTATION SYSTEM DEVELOPMENT PROGRAM
5.	November 1999	Caltrans District 12 SR-57 ROUTE CONCEPT REPORT
6.	September 1998	Caltrans Districts 7,8 and 12 COUNTY LINE STUDY (Draft)
7.	March 7, 2001	OCTA OPERATIONS ENHANCEMENT STUDY of SR-57 Between I-5/22/57 Interchange and the Los Angeles County line (by Parsons Transportation Group)
8.	June 2000	OCTA and SCAG FOUR CORNERS STUDY (by Parsons Brinckerhoff Quade & Douglas, Inc.)
9.	April 1998	SCAG REGIONAL TRANSPORTATION PLAN (by Southern California Associated Governments)
10.	July 1999	OCTA and SCAG FOUR CORNERS STUDY (by Parsons Brinckerhoff Quade & Douglas, Inc.)

EA: 0C120K

Attachment A

SR-57 NB Improvement with Climbing Lane (from "Operational Enhancement Study of SR-57" Between the I-5/22/57 Interchange and the Los Angeles County Line)

Table 1 List of Active Projects within the Proposed Climbing Lane Widening Project Limits

Ea Without Phase	Pmcs Ea	Ppno	RTE	BPM	APM	CODE	ELEM	RDWY \$	STRC \$	RW\$	Local Const \$	Local Rw DESCRIPTION \$	LOCATION	Appr Psr TARG	Pa&Ed TARG	Dist Pse TARG	JCOMP TARG	Doc Type ENV
09880	098801	:	057	· 0	ì	0 HA42	RAS	\$45	\$0.	\$0	\$0	\$0 REPAIR EXISTING SOUNDWALLS	ON RTE 57 AND RTE 405 AT VARIUS LOC	775,07000		2/1/99	10/1/99	CE
0C040	0C040K		057	10.7	22	6 HB4N	ОНС	\$415	\$0	\$0	\$415	\$0 SR-57 OPERATION ENHANCEMENT STUD	Y IN ORANGE FROM I-5 TO LA COUNTY	8/1/00	4/1/01	3/1/02	5/1/03	CE
07170	071700	3744	057	10.8	22	5 HE13	400	\$70,174	\$631,565	\$0	\$701,739	\$0 CONSTRUCT VIADUCT EXPRESSWAY	FROM ROUTE 73 TO THE TERMINUS OF	4/1/91	7/1/98	2/1/99	8/1/05	ES
0769U	0769U1	1973	057	10.8	22	6 HB4N	TSM	\$3,460	\$0	\$0	\$0	\$0 FIBER OPTIC COMMUNICATION SYSTEM	IN ORANGE COUNTY IN ORANGE, ANAHEIM	7/1/96	8/1/97	1/1/98	2/1/00	CE
09410	094101	3639	057	11	22	6 HA22	RAS	\$12,159	\$0	\$0	\$0	\$0 GRIND SURFACE CONC.SLABS TO FIT VE	R IN ORANGE ANAHEIM FULLERTON BREA OR	9/1/99	11/1/00	7/1/01	4/1/03	CE
0C170	0C1701		057	11.3	22	5 HM4		\$305	\$0	\$0	\$0	\$0 REMOVE AND REPLACE RAISED PAVEME	IN ORANGE ANAHEIM PLACENTIA FULLER				10/1/02	CE
0C200	0C2001		057	12.5	22	5 HM1		\$540	\$0	\$0	\$0	\$0 SEAL COAT	IN ANAHEIM, PLACENTIA, FULLERTON&BREA				8/1/02	CE
0A600	0A6001		057	14.9) 2	2 HM2		\$165	\$0	\$0	\$0	\$0 REMOVE AND REPLACE EXISTING DIKES	IN ORANGE COUNTY INM ANAHAIM,		12/1/99	12/1/99	7/1/00	CE
0E870	0E870K	3802	057	16.6	21	9 HA25	RAS	\$1,350	\$0	\$0	\$0	\$0 HIGHWAY RESTORATION	IN PLACENTIA RTE 57 FR ORANGETHORP	10/1/00	3/1/01	2/1/05	3/1/06	CE
0C110	0C110K	3835	057	19.9	21	5 HE11	IRS	\$7,000	\$5,000	\$0	\$12,000	\$0 RECONFIGURE RAMP AT SR-57 & LAMBE	RT IN BREA 0.5 MILE NORTH OF IMPERIAL	2/1/01	1/1/02	7/1/02	4/1/04	CE
0B120	0B1201	3846A	057	21		1 HA42	RAS	\$360	\$0	\$0	\$0	\$0 INSTALL WEIGH IN MOTION SYSTEM	IN ORANGE COUNTY IN BREA AT 0.2 KM		1/1/01	1/1/01	10/1/01	CE
0E320	0E320K	3846	057	21.1	21	6 HA22	RAS	\$15,000	\$0	\$0	\$0	\$0 REGRADE SLOPE	IN BREA FROM 300 METERS NORTH OF	12/1/01	6/1/02	6/1/03	3/1/05	CE
0C120	0C120K	3847A	057	21.2	2 22	6 HE13	FCR	\$23,365	\$18,290	\$986	\$0	\$0 RECONSTRUCT CLIMBING AUXILIARY LA	NE IN BREA FROM LAMBERT ROAD TO ORANGE	4/1/01	10/1/02	5/1/04	10/1/06	EIR/EIS

Table 1

List of Active Projects

Page 2A

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3, 60

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2.

PLANS APPROVAL DATE
The State of Collifornia or its officers or ogents shall not be responsible for the occurrory or completeness of electronic copies of this pion sheet. REGISTERED CIVIL ENGINEER Ora COUNTY ROUTE TOTAL PROJECT NO SHEETS 34.0/36.3

NB ROUTE 57

C

AC DIKE Type B

5: -

See Cut Slope Detail

STA 221+80 TO 229+12.3 STA 234+93 TO 250+74

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

EXHIBIT 1
NO SCALE

MAXIMUM

GRADING

CONCEPT

7A

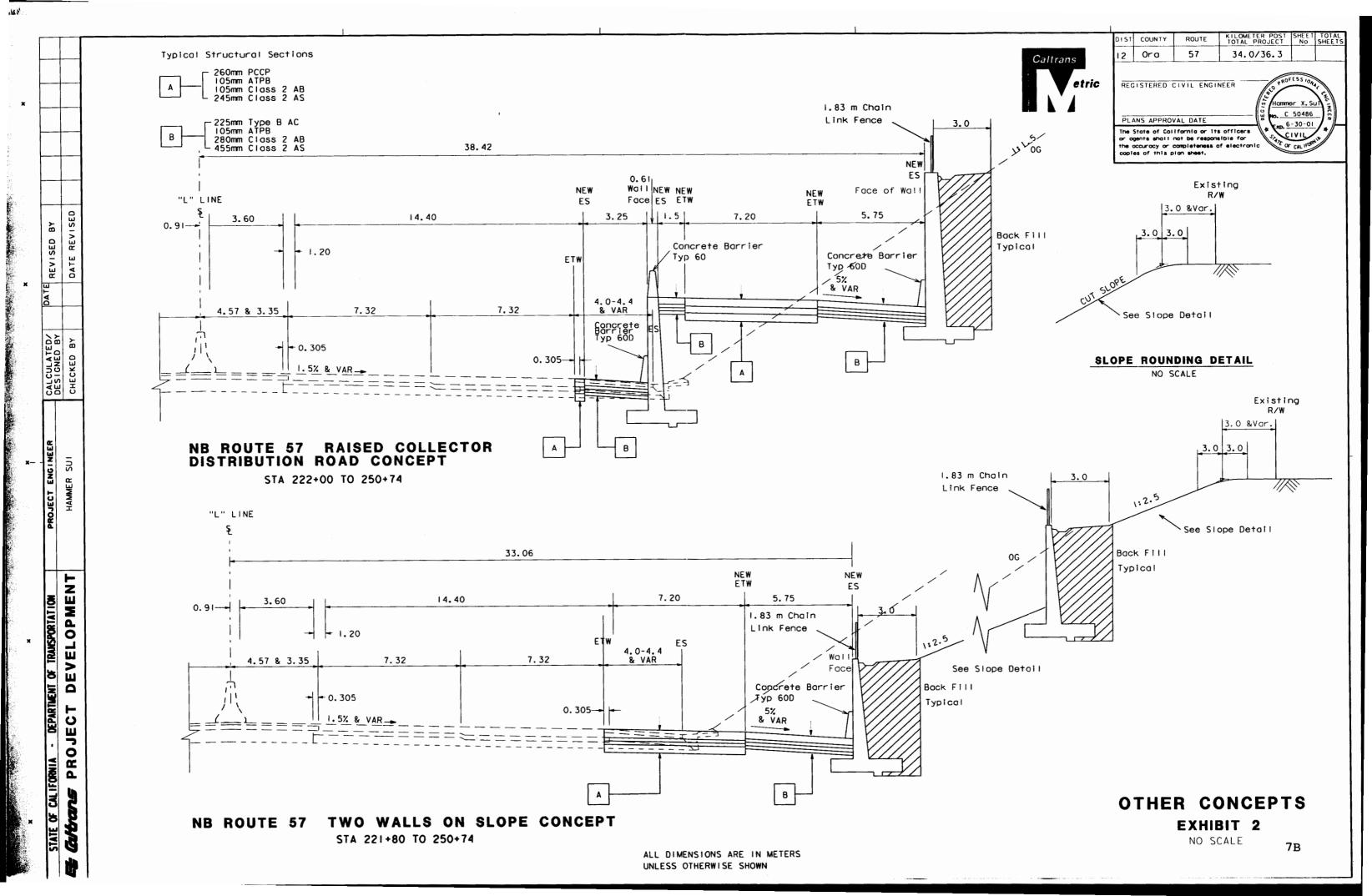


TABLE 2 SR-57 NORTHBOUND IMPROVEMENT CLIMBING LANE (2)

CLIMBING LANE FROM LAMBERT ON-RAMP AND EXTENDS PAST COUNTY LINE

Highway Statistics Measures of Effectiveness (MOE's)	Existing Conditions	Project Conditions	Change in MOE	MOE Percentage Improvement
Vehicle-Miles	168,555	210,090	41,535	24.64%
Vehicle-Minutes	983,023	697,364	-285,659	29.06%
Speed (MPH)	10.29	18.08	7.79	75.70%
Total Delay (Veh-Min)	660,398	400,920	-259,478	39.29%
Travel Time (Min) / (Veh-Mile)	5.83	3.32	-2.51	43.05%
Delay Time (Min) / (Veh-Mile)	3.92	1.91	-2.01	51.28%

Attachment B

SR-57 NB Improvement with Climbing Lane with Continuous Auxiliary Lane (from "Operational Enhancement Study of SR-57" Between the I-5/22/57 Interchange and the Los Angeles County Line)

TABLE 16 SR-57 NORTHBOUND IMPROVEMENT OPTION 2H

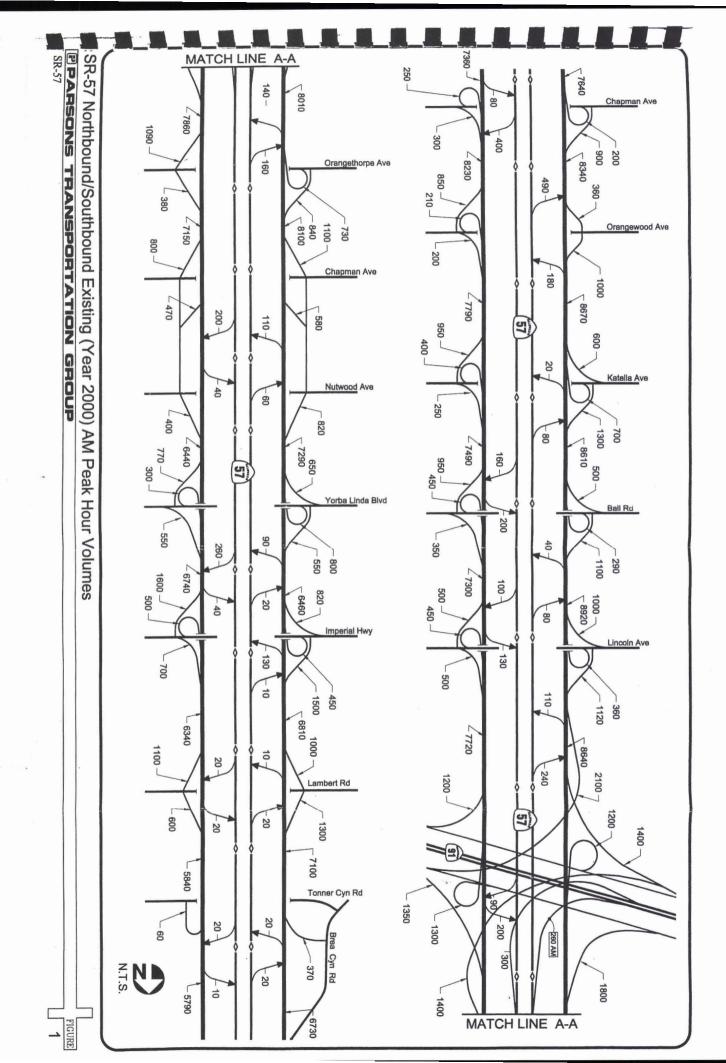
CONTINUOUS AUXILIARY LANE FROM ORANGETHORPE ON-RAMP TO LAMBERT ON-RAMP + 4TH LANE BETWEEN WB SR-91 RAMPS + CLIMBING LANE FROM LAMBERT ON-RAMP EXTENDING PAST COUNTY LINE

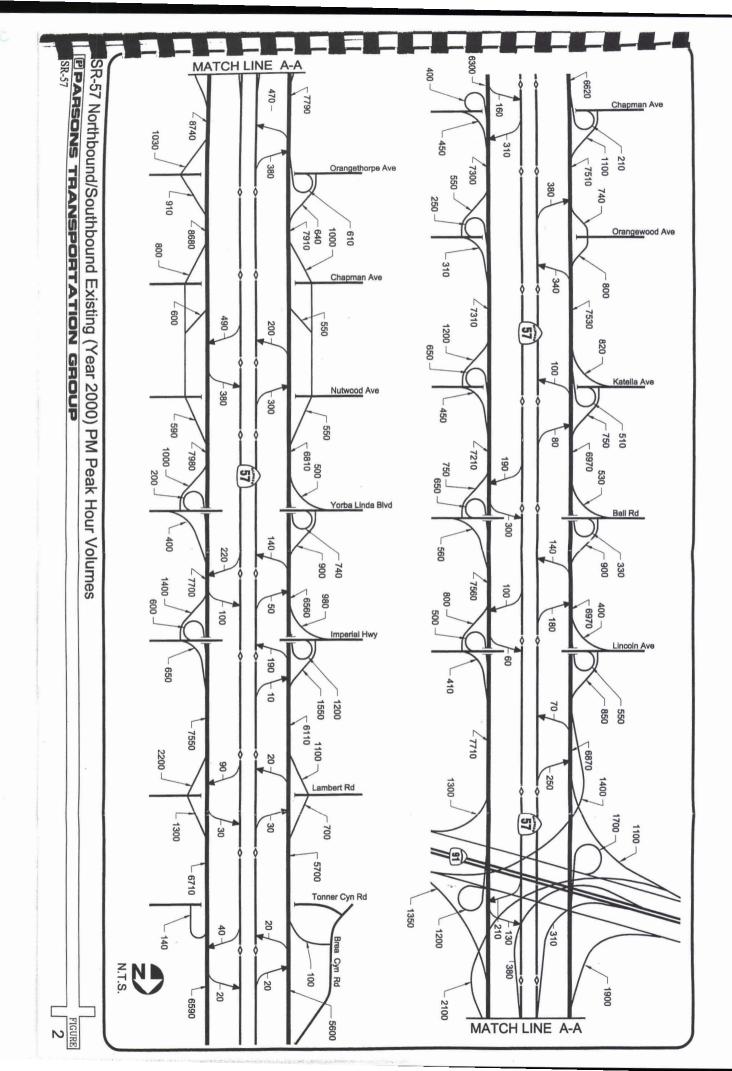
Highway Statistics Measures of Effectiveness (MOE's)	Existing Conditions	Project Conditions	Change in MOE	MOE Percentage Improvement
Vehicle-Miles	168,555	212,867	44,312	26.29%
Vehicle-Minutes	983,023	576,956	-406,067	41.31%
Speed (MPH)	10.29	22.14	11.85	115.16%
Total Delay (Veh-Min)	660,398	269,913	-390,485	59.13%
Travel Time (Min) / (Veh-Mile)	5.83	2.71	-3.12	53.52%
Delay Time (Min) / (Veh-Mile)	3.92	1.27	-2.65	67.60%

Attachment C

SR-57 Existing (Year 2000) AM & PM Peak Hour Volume (from "Operational Enhancement Study of SR-57"

Between the I-5/22/57 Interchange and the Los Angeles County Line)

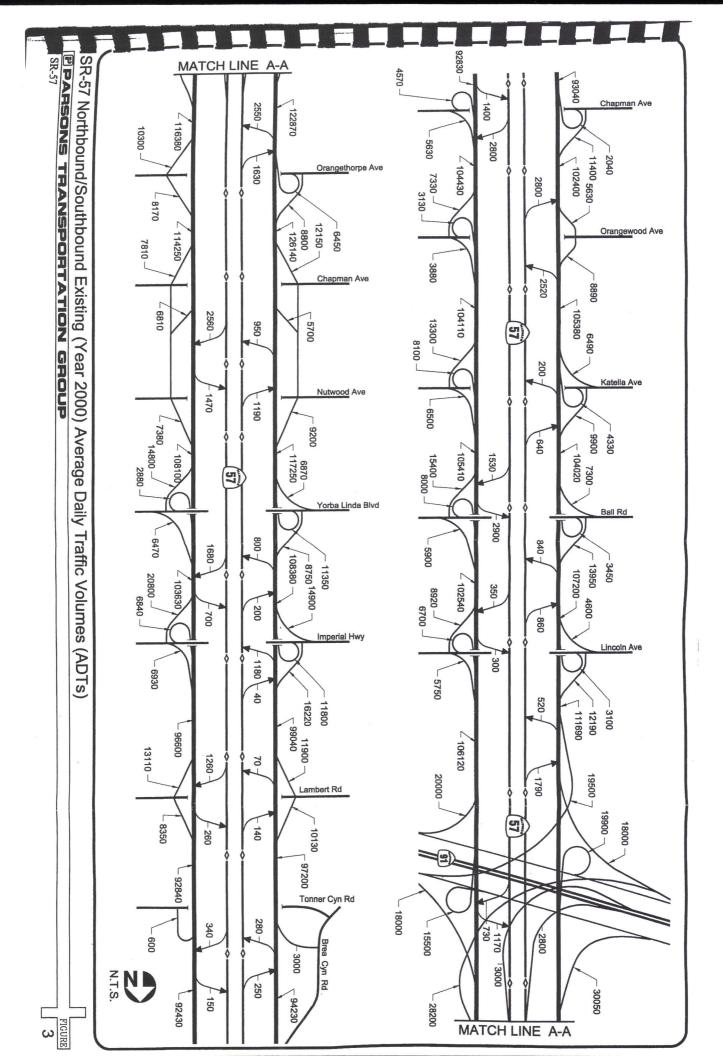




Attachment D

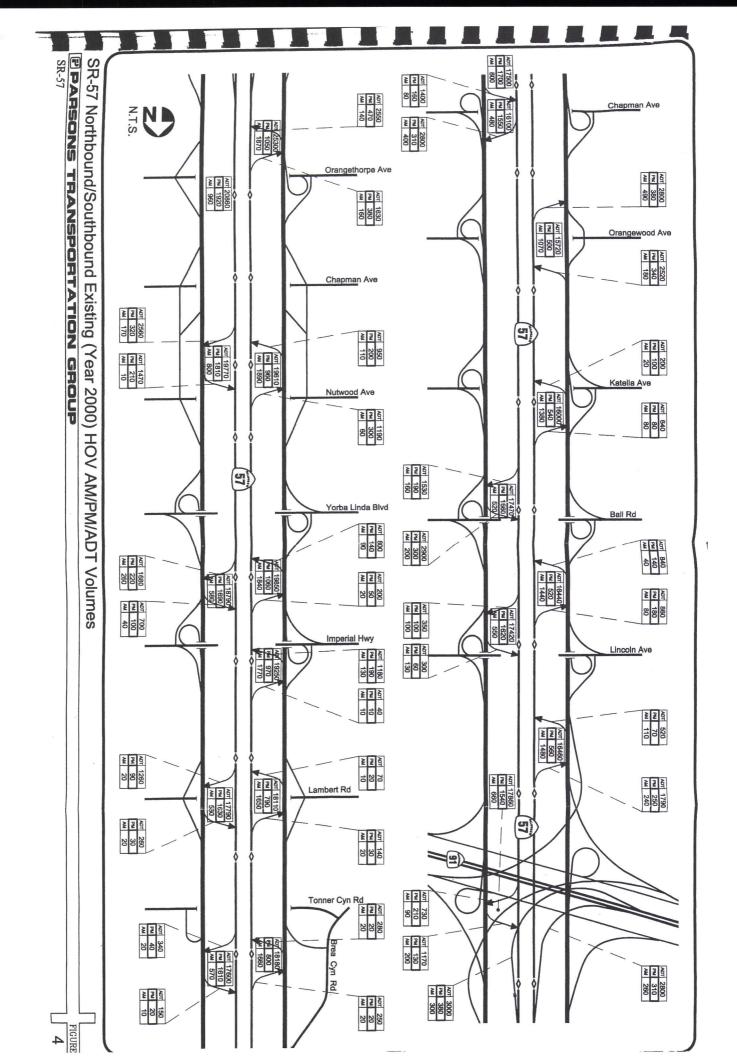
SR-57 Existing (Year 2000) Average Daily Traffic Volume (from "Operational Enhancement Study of SR-57"

Between the I-5/22/57 Interchange and the Los Angeles County Line)



Attachment E

SR-57 Existing (Year 2000) HOV AM/PM/ADT Volume (from "Operational Enhancement Study of SR-57" Between the I-5/22/57 Interchange and the Los Angeles County Line)



Attachment F

Manual Truck Traffic Counts

Congestion Monitoring Data 1999

Year 2000 15-minute Loop Traffic Data Report

Manual Traffic Count N/B SR 57 Tonner Cyn Rd. AM 11/08/00---PM 11/28/00

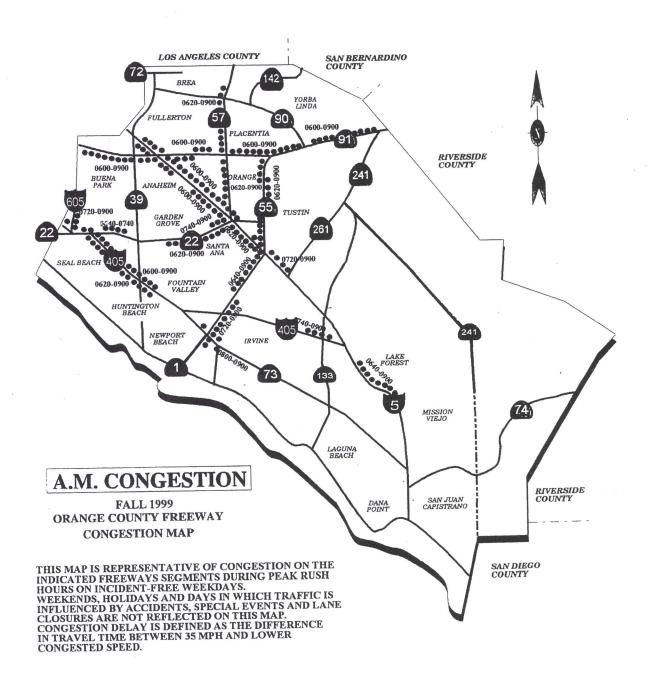
County OD A		PM 21.776 RTE:57	11/29/00 Da	ay of Week:Tuesday
county:ORA	on Pridge	FIVI 21.110 KIE:31	N/B SR 57 Tonne	
onner Canyo egal Descrip			By: Ghassan Bas	
	ime	Truck Count	Traffic Data report	Truck %
		103	Tranic Data report	TIUCK 70
	00-15			
0600	15-30	103		
	30-45 45-60	118 101		
Нои	r Total	425	4200	10.12%
пои			4200	10.1270
	00-15	109		
0700	15-30	91		
	30-45 45-60	76 75		
Have	r Total	351	5261	6.67%
Hou			3201	0.0770
	00-15	70 121		
0800	15-30 30-45	121		
	30-45 45-60	144		
Цон	r Total	450	4431	10.16%
	Total	1226	4431	10.1070
Alvi	00-15	207		
	15-30	224		
1100	30-45	162		
	45-60	194		***
Hour Total		787	4464	17.63%
1100	00-15	177		
	15-30	200		
1200	30-45	187		
	45-60	207		
Hour Total		771	4507	17.11%
	n Total	1558		
	00-15	150		
	15-30	168		
1500	30-45	153		
	45-60	169		
Hou	r Total	640	5254	12.18%
	00-15	173		
4000	15-30	149		
1600	30-45	153		
	45-60	151		
Hou	r Total	626	5437	11.51%
	00-15	149		
4700	15-30	151		
1700	30-45	130		
	45-60	123		
Hou	r Total	553	4876	11.34%
	Total	1819		
	Total	4603	38430	11.98%

Manual Traffic Count N/B SR 57 Lambert

County:ORA		21.15 RTE:57	11/8/00		Day of Week:Wednesday						
onner Canyo		BTWN IMPERIAL & L	AMBERT	N/B SR 57 Lambert							
egal Descrip	THE RESERVE OF THE PARTY OF THE				ratunga& Majid Ghamami						
T	ime	Truck Count	Traffic	Data report	Truck %						
	00-15	65									
0600	15-30	68									
	30-45	80									
	45-60	68			7.000/						
Hou	r Total	281		3904	7.20%						
	00-15	70									
0700	15-30	62									
0,00	30-45	73									
	45-60	55									
Hou	r Total	260	4	4690	5.54%						
	00-15	37									
0800	15-30	70									
5000	30-45	71									
	45-60	118									
	r Total	296		3987	7.42%						
AM	Total	837									
	00-15	144			,						
1100	15-30	193									
1100	30-45	167									
	45-60	160									
Hou	r Total	664		4058	16.36%						
	00-15	138									
1200	15-30	150									
1200	30-45	186									
	45-60	207									
	r Total	681		3984	17.09%						
Noo	n Total	1345		,							
	00-15	134									
1500	15-30	142									
1000	30-45	144									
	45-60	140									
Hou	r Total	560		4653	12.04%						
	00-15	146		,							
1600	15-30	135									
.000	30-45	119									
	45-60	74			16						
Hou	r Total	474		4349	10.90%						
STATE OF THE PARTY	00-15	89									
1700	15-30	63									
. 7 00	30-45	56									
	45-60	64									
AND DESCRIPTION OF THE PERSON	ır Total	272		3058	8.89%						
	Total	1306									
Day	/ Total	3488		32683	10.67%						

- mhas ; com,

Fall 1999 Congestion Monitoring Data on Orange County Freeways



SPEED UNDER 35 MPH



TRAFFIC DATA REPORT 15 Minute Loop Data

FROM: 11-08-2000 00:00:00

TO: 11-09-2000 00:00:00

4278

Main Line / HOV LAMBERT VDS DESCRIPTION: ORA-57-N, PM: 21.16 ML STATION ML 4 ML 1 ML 2 ML 3 NOV-08-2000 VOL OCC SPD %GD TOT AVG EST WEDNESDAY VOL OCC SPD 0 71 1.7 59 100 94 2.4 55 100 73 1.7 71 100 33 1.5 43 100 271 1.8 00:15:00 0 76 1.8 59 100 100 2.5 54 100 62 1.8 59 100 24 1.1 43 100 00:30:00 NA NA 77 1.9 57 100 68 1.6 71 100 38 1.5 48 100 235 1.6 52 1.3 56 100 00:45:00 0 39 0.9 60 100 68 1.8 53 100 50 1.4 61 100 20 0.9 41 100 177 1.2 01:00:00 NA NA 238 253 945 1ht: 0 30 0.7 59 100 49 1.3 52 100 39 0.8 80 100 22 1.3 32 100 140 1.0 01:15:00 NA NA 40 1.0 58 100 53 1.3 54 100 43 1.2 60 100 24 1.3 34 100 160 1.2 01:30:00 31 0.8 54 100 42 1.0 56 100 31 1.0 51 100 18 0.9 39 100 01:45:00 21 1.0 41 100 02:00:00 0 27 0.7 57 100 46 1.1 57 100 37 1.0 62 100 131 0.9 553 190 150 128 1ht: 0 26 0.6 56 100 38 1.0 55 100 28 0.7 67 100 18 1.1 31 100 110 0.8 02:15:00 02:30:00 0 34 0.8 58 100 46 1.1 56 100 40 1.1 64 100 23 1.4 32 100 143 1.1 33 0.9 52 100 0 27 0.7 56 100 31 0.8 64 100 22 1.3 32 100 113 0.9 02:45:00 33 0.9 53 97 34 1.0 60 97 14 0.7 38 97 106 0.8 03:00:00 0 25 0.6 60 97 NA 112A 150A 133A 473 1ht: 03:15:00 NA NA 0 17 0.4 62 23 37 0.9 54 100 24 0.9 44 100 22 1.7 24 100 100 1.0 03:30:00 43 1.1 53 100 36 1.1 57 100 16 0.9 32 100 32 0.8 52 100 33 1.1 51 100 03:45:00 0 17 1.1 30 100 109 1.0 04:00:00 NA NA 0 NA NA 0 37 0.9 56 97 37 1.3 49 97 20 1.4 27 97 125 1.2 149A NA 69A 130A 75A 1ht: 04:15:00 0 NA NA NA 0 53 1.4 51 100 25 0.7 58 100 34 2.2 29 100 NA NA 149 1.4 04:30:00 48 1.2 54 97 63 1.7 51 100 49 1.9 43 100 28 2.0 27 100 04:45:00 58 1.4 55 100 82 2.2 51 100 63 2.2 47 100 31 1.8 33 100 234 1.9 0 05:00:00 0 83 2.0 57 100 117 3.1 52 100 74 2.8 45 100 38 2.6 28 100 312 2.6 NA NA NA 252A 315 211 131 909 1ht: 05:15:00 0 108 2.7 54 100 133 3.6 51 100 75 2.8 45 100 51 2.9 33 100 05:30:00 0 170 4.3 54 100 184 4.8 52 100 127 4.1 52 100 54 2.5 41 100 0 244 6.1 55 100 229 6.3 50 100 149 5.3 47 100 05:45:00 55 3.0 35 100 06:00:00 0 257 6.4 55 100 242 6.5 51 100 146 4.4 56 100 73 4.0 34 100 718 5.3 NA NA 788 2297 779 497 233 1ht: 0 325 7.9 56 100 274 7.3 52 100 173 5.6 52 100 71 3.7 37 100 06:15:00 NA NA 843 6.1 06:30:00 NA NA 0 434 10.7 56 100 332 8.8 51 100 193 6.7 48 100 90 3.8 46 100 1049 06:45:00 NA NA 0 531 13.2 55 100 380 10.4 50 100 210 7.2 49 100 77 3.7 39 100 1198 8.6 07:00:00 0 487 12.4 54 100 387 10.5 51 100 232 7.4 52 100 82 3.7 42 100 1188 8.5 NA NA NA

1373

808

320

A = Adjusted , ND = No Data, NA = Not Applicable All values are suspect until verified by Engineer

VDS ID: 1202464

1777

NA

1ht:

Page:

TRAFFIC DATA REPORT 15 Minute Loop Data

FROM: 11-08-2000 00:00:00 TO: 11-09-2000 00:00:00 A = Adjusted , ND = No Data, NA = Not Applicable All values are suspect until verified by Engineer

VDS DESCR	IPTION	ORA-5	7-N,		PM:	21	.16	I	AMBE	RT								Ma	in Li	ne /	HOV	
NOV-08-2000 WEDNESDAY		HOV 1 CC SPD %	BGD	AOT	ML		%GD	VOL	ML		%GD	VOL	OCC		%GD	VOL	ML		%GD			N EST SPD
07:15:00	NA	NA NA	0	575	14.9	53	100	409	11.2	50	100	238	8.0	50	100	97	4.3	43	100	1319	9.6	51
07:30:00	NA	NA NA	0	590	15.2	53	100	440	12.1	50	100	254			100	108			100		10.0	51
07:45:00	NA	NA NA	0	578	14.8	54	100	419	11.6	50	100	237	7.6	52	100	113	5.7	38	100	1347		51
08:00:00	NA	NA NA	0	483	11.7	57	100	357	9.4	52	100	193	6.3	51	100	77	3.6	41	100	1110	7.7	53
1ht:	NA			2226	5			1625	;			922	2			395				5168	3	
08:15:00	NA	NA NA	0	442	10.6	57	100	336	8.8	52	100	199	6.6	51	100	71	3.7	36	100	1048	7.4	53
08:30:00	NA	NA NA	0	439	10.6	56	100	318	8.7	50	100	196	6.9	48	100	96				1049	7.7	51
08:45:00	NA	NA NA	0	457	10.9	58	100	350	9.2	52	100	206	7.3	47	100	87	4.0	41	100	1100	7.8	53
09:00:00	NA	NA NA	0	434	10.5	57	100	359	9.5	52	100	218	8.1	45	100	104	4.9	40	100	1115	8.3	51
1ht:	NA			1772	2			1363				819)			358				4312	2	
09:15:00	NA	NA NA	0	439	10.6	57	100	343	9.1	52	100	198	7.5	44	100	102	5.4	36	100	1082	8.1	51
09:30:00	NA	NA NA	0	448	10.9	56	100	367	9.9	51	100	205	8.6	40	100	101	6.1	32	100	1121	8.9	49
09:45:00	NA	NA NA	0	470	11.4	56	100	348	9.5	50	100	201	9.0	38	100	112	6.0	36	100	1131	9.0	49
10:00:00	NA	NA NA	0	435	10.6	56	100	353	9.6	50	100	237	9.7	41	100	98	5.4	34	100	1123	8.8	49
1ht:	NA			1792	2			1411				841				413				4457	7	
10:15:00	NA	NA NA	0	436	10.5	57	100	338	9.0	51	100	214	8.6	42	100	103	5.5	36	100	1091	8.4	50
10:30:00	NA	NA NA	0	445	11.1	55	100	348	9.7	49	100	224	10.2	37	100	109	6.3	33	100	1126	9.3	47
10:45:00	NA	NA NA	0	433	10.4	57	100	337	9.5	49	100	229	10.9	35	100	104	6.4	31	100	1103	9.3	47
11:00:00	NA	NA NA	0	408	10.0	56	100	348	9.6	49	100	233	10.9	36	100	103	5.6	35	100	1092	9.0	48
1ht:	NA.			1722	2			1371				900)			419				4412	1	
11:15:00	NA	NA NA	0	411	9.9	57	100	342	9.4	50	100	212	9.0	39	100	123	6.7	35	100	1088	8.8	49
11:30:00	NA	NA NA	0	427	10.7	55	100	327	9.1	49	100	233	10.2	38	100	113	6.7	32	100	1100	9.2	47
11:45:00	NA	NA NA			10.9			333					10.2				7.3	35	100	1123	9.4	47
12:00:00	NA	NA NA	0	429	10.7	55	97	357	9.9	49	97	220	9.5	39	97	110	6.5	32	97	1116	9.1	48
1ht:	NA			1699	A			1358	A			887	A			482	A.			4426	i	
12:15:00	NA	NA NA	0	397	9.6	57	100	347	9.3	51	100	224	9.0	41	100	95	5.4	34	100	1063	8.3	50
12:30:00	NA	NA NA	0	420	10.4	55	100	348	9.4	51	100	212	8.9	40	100	104	5.5	36	100	1084	8.5	49
12:45:00	NA	NA NA	0	424	10.8	54	100	350	9.8	49	100	220	9.8	38	100	122	6.6	35	100	1116	9.3	47
13:00:00	NA	NA NA	0	414	10.1	56	100	330	9.1	49	100	231	9.8	39	100	111	6.2	34	100	1086	8.8	48
1ht:	NA			1655				1375				887				432				4349	•	
13:15:00	NA	NA NA	0	472	11.5	56	100	346	9.9	48	100	243	10.3	40	100	118	5.9	38	100	1179	9.4	48
13:30:00	NA	NA NA	0	478	11.9	55	100		10.9			248				112	5.5	39	100	1231	9.5	49
13:45:00	NA	NA NA			12.9								10.4		100	109	5.8	36	100	1272	10.0	48
14:00:00	NA	NA NA	0	477	11.9	55	97	376	10.3	50	97	258	9.3	46	97	127	5.5	44	97	1238	9.3	50
. 1ht:	NA			1935	A			1515.	A			1003	A	c		4662	A			4919		

Pag

TRAFFIC DATA REPORT 15 Minute Loop Data

FROM: 11-08-2000 00:00:00 TO: 11-09-2000 00:00:00

3424

Main Line / HOV PM: 21.16 LAMBERT VDS DESCRIPTION: ORA-57-N, ML 1 MT. 2 MT. 3 ML 4 MI. STATION NOV-08-2000 WEDNESDAY VOL OCC SPD %GD TOT AVG EST VOL OCC SPD 14:15:00 NA NA 0 532 13.9 52 100 418 12.1 47 100 263 11.0 40 100 129 6.3 35 100 1342 10.8 47 0 554 14.4 53 100 464 13.2 48 100 289 11.6 42 100 125 5.7 42 100 1432 11.2 14:30:00 0 582 15.7 51 100 465 13.2 48 100 289 11.4 42 100 147 6.4 44 100 1483 11.7 14:45:00 0 511 18.7 37 100 456 15.2 41 100 322 11.6 46 100 179 6.8 50 100 1468 13.1 15:00:00 NA 2179 1163 1ht: 15:15:00 NA NA 0 540 14.5 51 100 473 13.2 49 100 305 10.8 47 100 143 5.2 52 100 1461 10.9 NA 15:30:00 0 556 17.7 43 100 475 14.6 44 100 326 11.6 47 100 140 4.8 55 100 1497 12.2 15:45:00 0 549 16.4 46 100 479 14.3 46 100 330 12.0 46 100 156 6.1 48 100 1514 12.2 0 501 15.0 46 100 456 14.2 44 100 355 13.6 44 100 212 8.1 50 100 1524 12.7 45 16:00:00 2146 1883 5996 1316 651 MA 1ht: 16:15:00 0 498 19.5 35 100 485 20.6 32 100 347 18.0 32 100 224 10.5 41 100 1554 17.1 16:30:00 NA 0 454 21.5 29 100 452 22.6 27 100 321 18.1 30 100 232 11.4 39 100 1459 18.4 0 462 25.9 24 100 446 24.4 25 100 306 24.0 21 100 249 14.0 34 100 1463 22.1 16:45:00 NA 17:00:00 0 418 31.0 18 100 398 31.6 17 100 331 29.4 19 100 249 23.3 20 100 1396 28.8 NA 1832 1781 1305 954 5872 1ht: 17.15.00 0 371 31.1 16 100 369 34.7 15 100 277 32.9 14 100 210 30.8 13 100 1227 32.4 17:30:00 0 329 37.7 12 100 324 39.4 11 100 247 37.6 11 100 186 43.5 8 100 1086 39.6 17:45:00 0 348 36.5 13 100 325 39.1 11 100 233 41.1 9 100 206 40.6 10 100 1112 39.3 NA 18:00:00 NA NA NA 0 290 36.9 11 97 295 41.9 10 97 212 40.0 9 97 159 47.5 6 97 956 41.6 NA 1339A 1314A 970A 762A 4385 1ht . 18:15:00 0 322 39.7 11 100 298 41.7 10 100 212 40.7 9 100 177 44.5 8 100 1009 41.6 NA NA 18:30:00 0 292 38.6 10 100 291 41.4 10 100 225 41.1 9 100 181 45.9 7 100 989 41.7 NA 18:45:00 0 359 34.5 14 100 344 36.4 13 100 266 33.5 13 100 193 43.9 8 100 1162 37.1 NA NA 19:00:00 0 349 33.9 14 100 339 33.5 14 100 274 33.8 14 100 192 39.9 9 100 1154 35.3 13 NA NA NA NA 1322 977 743 4314 1ht: 19:15:00 0 412 28.0 20 100 398 28.1 19 100 334 24.0 23 100 248 16.7 28 100 1392 24.2 19:30:00 0 409 25.2 22 100 386 27.5 19 100 312 23.9 22 100 272 20.8 25 100 1379 24.3 19:45:00 0 484 15.1 44 100 439 13.6 44 100 330 9.6 58 100 208 6.5 61 100 1461 11.2 20:00:00 NA NA NA 0 367 9.3 54 100 323 8.6 51 100 249 6.2 67 100 113 3.6 60 100 1052 6.9 NA 1672 1546 1225 5284 1ht: 841 20:15:00 NA NA 0 299 7.5 55 100 278 7.3 52 100 216 5.6 65 100 76 2.3 64 100 869 5.6 20:30:00 0 308 7.7 54 100 271 7.3 51 100 190 5.4 59 100 101 3.2 60 100 NA 20:45:00 0 296 7.3 56 100 268 6.9 53 100 206 4.9 70 100 84 2.8 57 100 21:00:00 0 271 6.6 56 100 273 7.1 52 100 205 5.1 67 100 82 2.4 64 100

VDS ID: 1202464

A = Adjusted , ND = No Data, NA = Not Applicable All values are suspect until verified by Engineer

1174

1090

817

343

NA

1ht: «

TRAFFIC DATA REPORT 15 Minute Loop Data

FROM: 11-08-2000 00:00:00

A = Adjusted , ND = No Data, NA = Not Applicable TO: 11-09-2000 All values are suspect until verified by Engineer 00:00:00

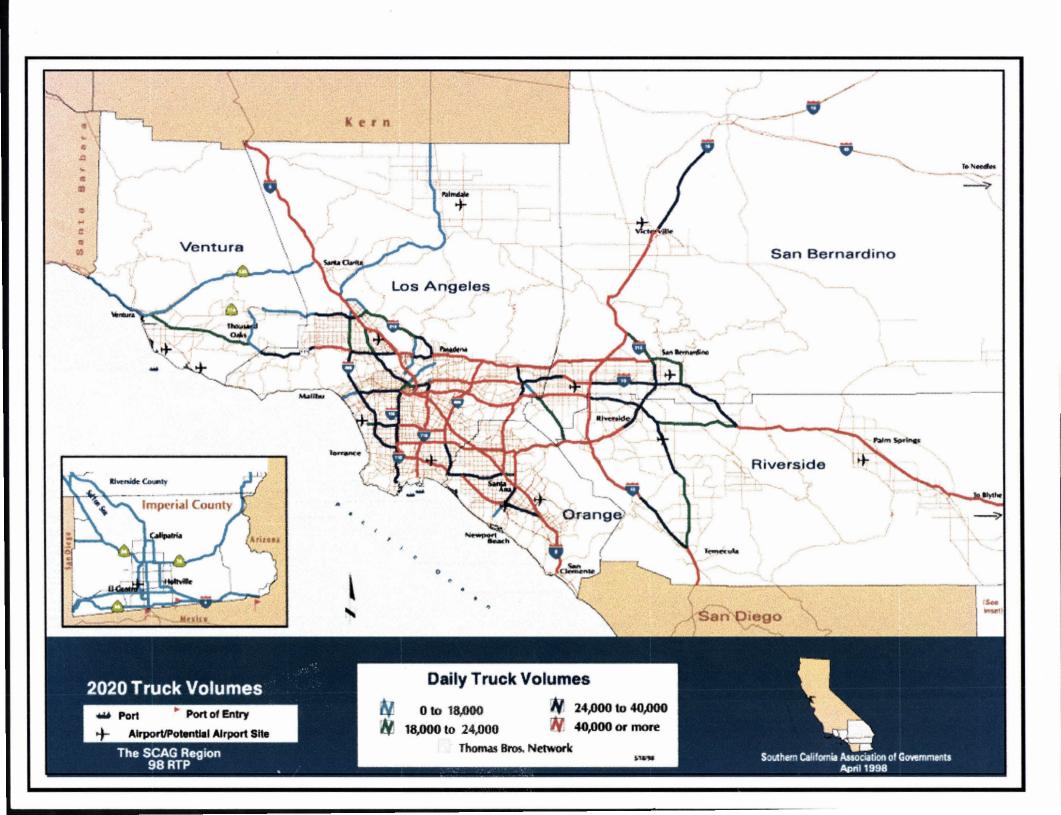
VDS DESCRIPTION: ORA-57-N, PM: 21.16 LAMBERT								T								Ma	in Li	ne / 1	VOH			
NOV-08-2000				ML 1			ML 2												L STATION			
WEDNESDAY	AOT OC	CC SPD 9	kGD	VOL	OCC	SPD	%GD	AOL	occ s	SPD	%GD	AOL	occ	SPD	%GD	AOL	occ	SPD	%GD	TOT	AVG	EST
																			:	VOL	occ	SPD
21:15:00	NA	NA NA	0	286	6.9	57	100	277	7.0	54	100	206	4.9	71	100	105	2.9	69	100	874	5.4	61
21:30:00	NA	NA NA	0	286	7.0	56	100	284	7.4	53	100	233	5.3	73	100	107	3.0	68	100	910	5.7	61
21:45:00	NA	NA NA	0	306	7.3	57	100	283	7.3	53	100	214	4.9	73	100	111	3.4	61	100	914	5.7	60
22:00:00	NA	NA NA	0	310	7.1	60	97	283	7.1	54	97	206	4.6	75	97	93	2.7	67	97	892	5.4	62
1ht:	NA			1188	A			1127	A			859	A			416	A			3590)	
22:15:00	NA	NA NA	0	282	6.8	57	100	268	6.8	54	100	180	4.4	68	100	85	2.8	58	100	815	5.2	58
22:30:00	NA	NA NA	0	302	7.2	57	100	261	6.6	54	100	182	4.6	66	100	90	2.7	64	100	835	5.3	59
22:45:00	NA	NA NA	0	224	5.4	57	100	214	5.6	53	100	164	3.8	72	100	74	2.9	49	100	676	4.4	58
23:00:00	NA	NA NA	0	147	3.5	57	100	158	4.0	54	100	128	3.3	66	100	51	2.0	48	100	484	3.2	58
1ht:	NA.			955				901				654				300				2810		
23:15:00	NA	NA NA	0	123	2.9	57	100	142	3.6	54	100	104	2.6	66	100	42	1.7	48	100	411	2.7	57
23:30:00	NA	NA NA	0	130	3.1	57	100	150	3.8	54	100	102	2.9	60	100	54	2.0	52	100	436	2.9	56
23:45:00	NA	NA NA	0	93	2.2	58	100	119	3.0	54	100	83	2.0	71	100	53	1.9	53	100	348	2.3	59
00:00:00	NA	NA NA	0	77	1.8	59	97	102	2.6	55	97	74	1.9	66	97	38	1.6	46	97	291	1.9	58
1ht:	NA.			424	A			514	A			364	A			188	A			1490		
24ht:	NA		3	1860	A		2	6568.	A		18	3100	A			9783	A		84	1816		

VDS ID: 1202464

EA: 00120K

Attachment G

2020 Daily Truck Volume Forecasted by Southern California Association of Governments



Attachment H

Traffic Accident Surveillance Analysis System

Time Period: 01/01/1995 – 12/31/1999 Location: SR-57 Northbound Lambert Road to Los Angeles County Line

TASAS Table B

AXR253-A 11-16-00

TASAS TABLE B DISTRICT 12 SELECTIVE ACCIDENT RATE CALCULATION ROUTE SEQUENCE

PAGE

7

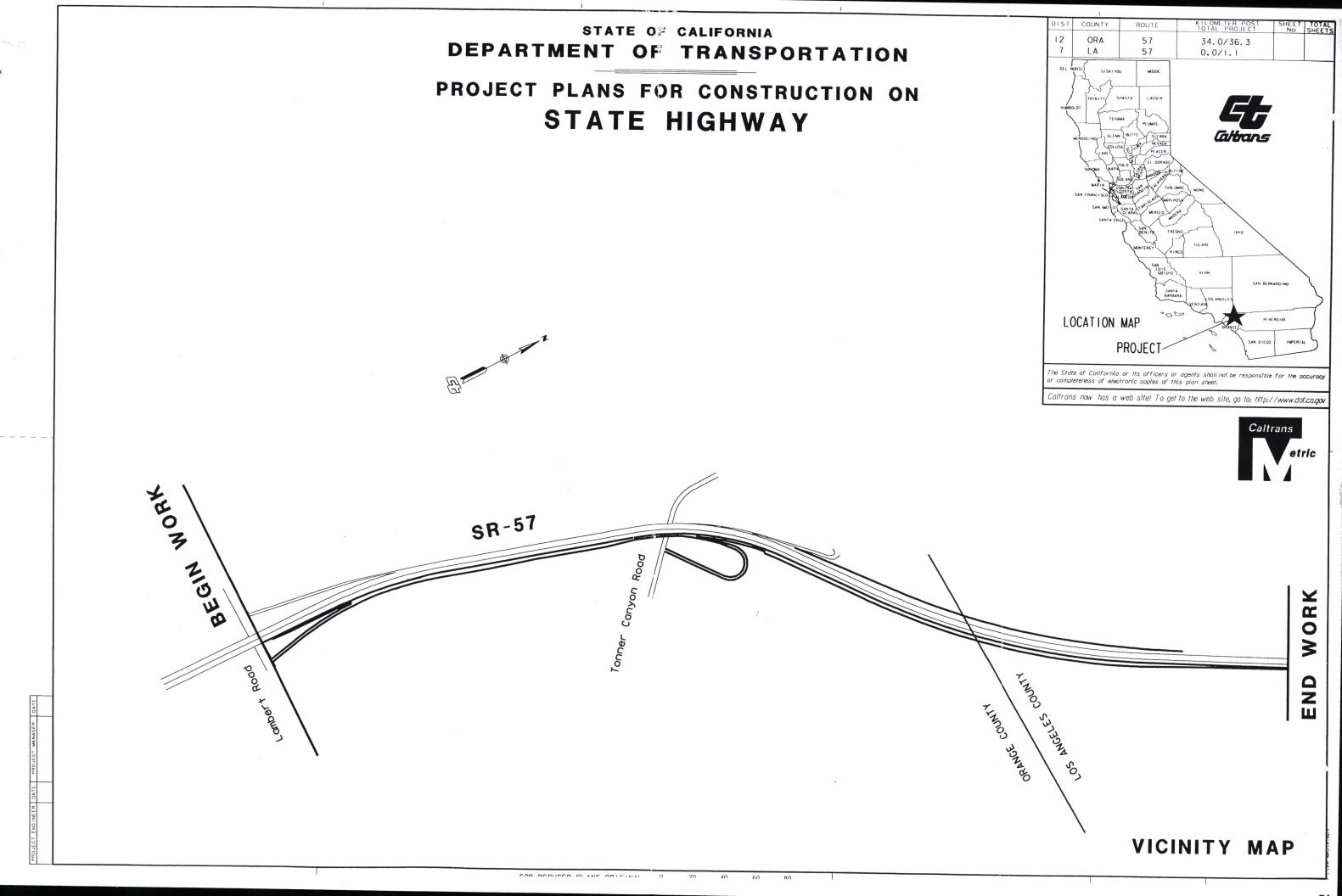
L 0 C A T I 0 N D E S C R I P T I 0 N RA *-NUMBER OF ACCIDENTS/SIGNIFICANCE* PER *ADT * TOTAL *-ACCIDENT RATE ACCS/MV+ OR MVM-* AVERAGE RUS) TOT FAT INJ F+I VEH WET DARK INJ X-ST MVM FAT F+I TOT FAT

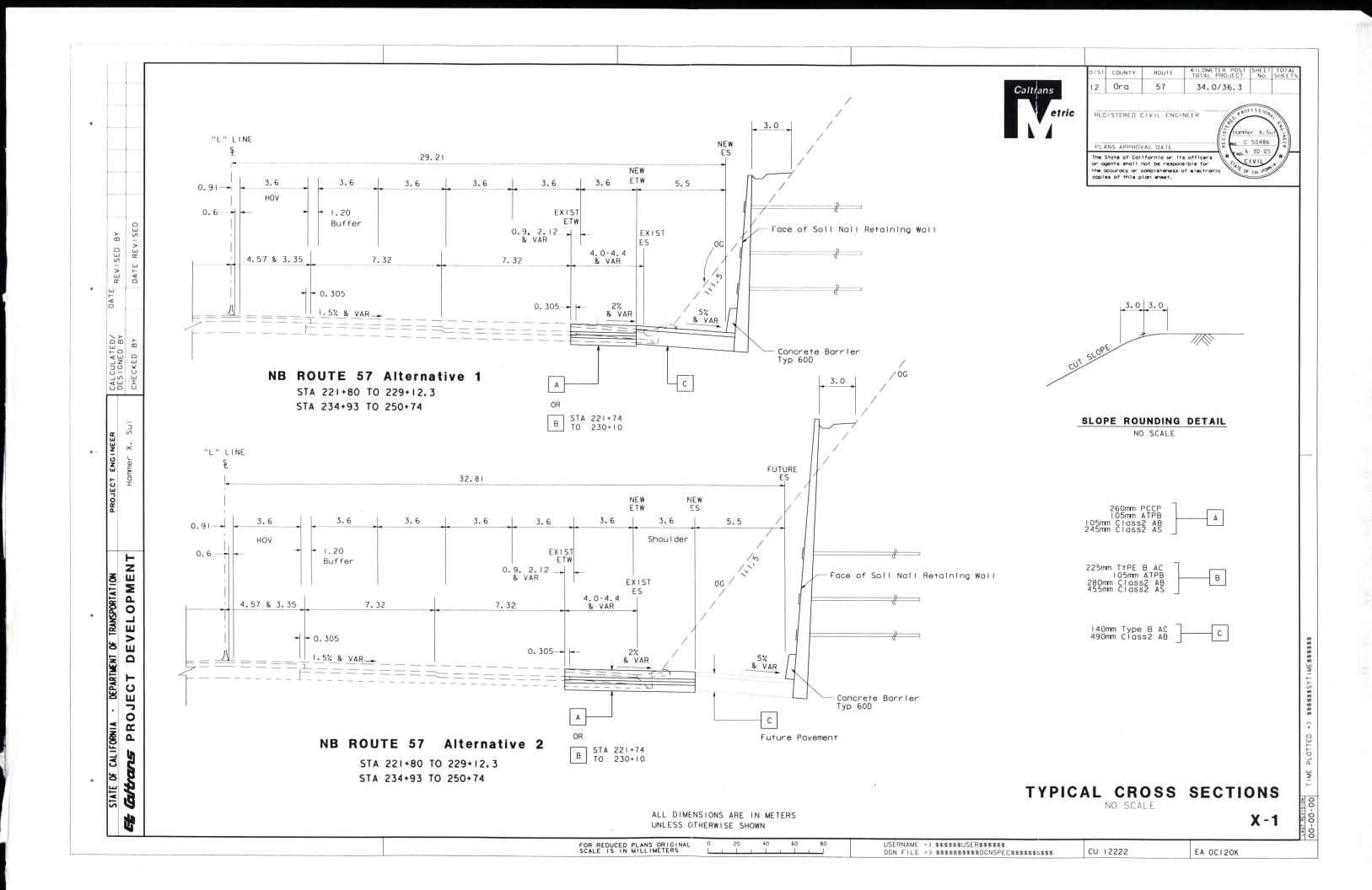
+ DENOTES MV USED IN RATES

Attachment I

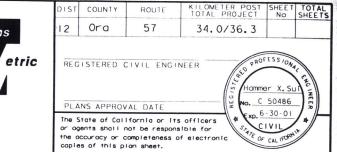
Plan Sheets

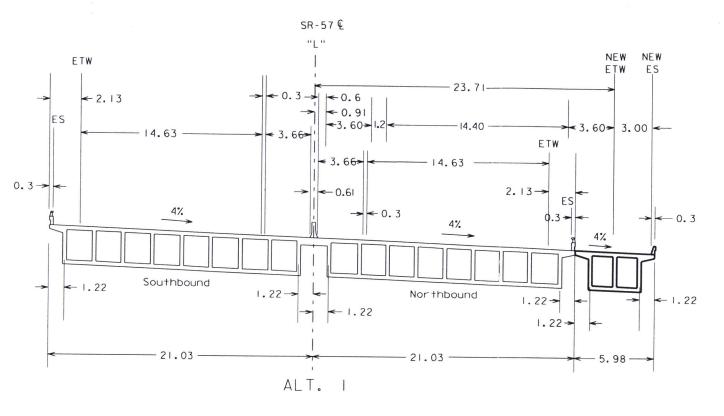
Vicinity Map
Typical Sections X-1 through X-4
Construction Staging SC-1
Ramp Profiles P-1 through P-4
Layout – Alternative 1 L-1 through L-12
Layout – Alternative 2 L-1 through L-12
Layout – Alternative 3 L-1 through L-12
Layout – Alternative 4 L-6, L-8 through L-12 (L-1
through L-5, and L-7 are identical to
Alternative 2 plans, thus, use Alternative 2
plans)











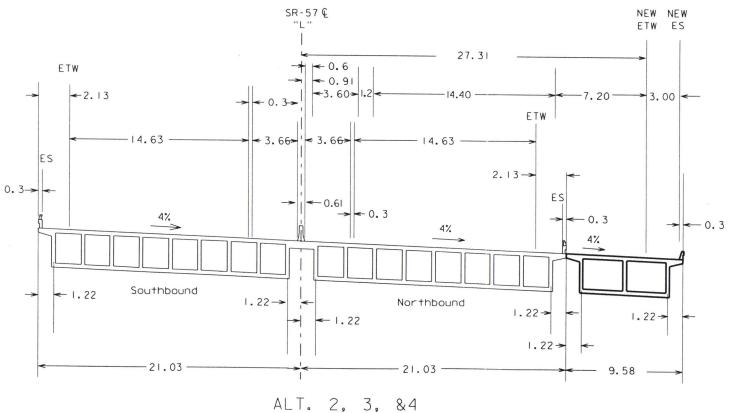
DATE REVISED BY

CALCULATED/ DESIGNED BY CHECKED BY

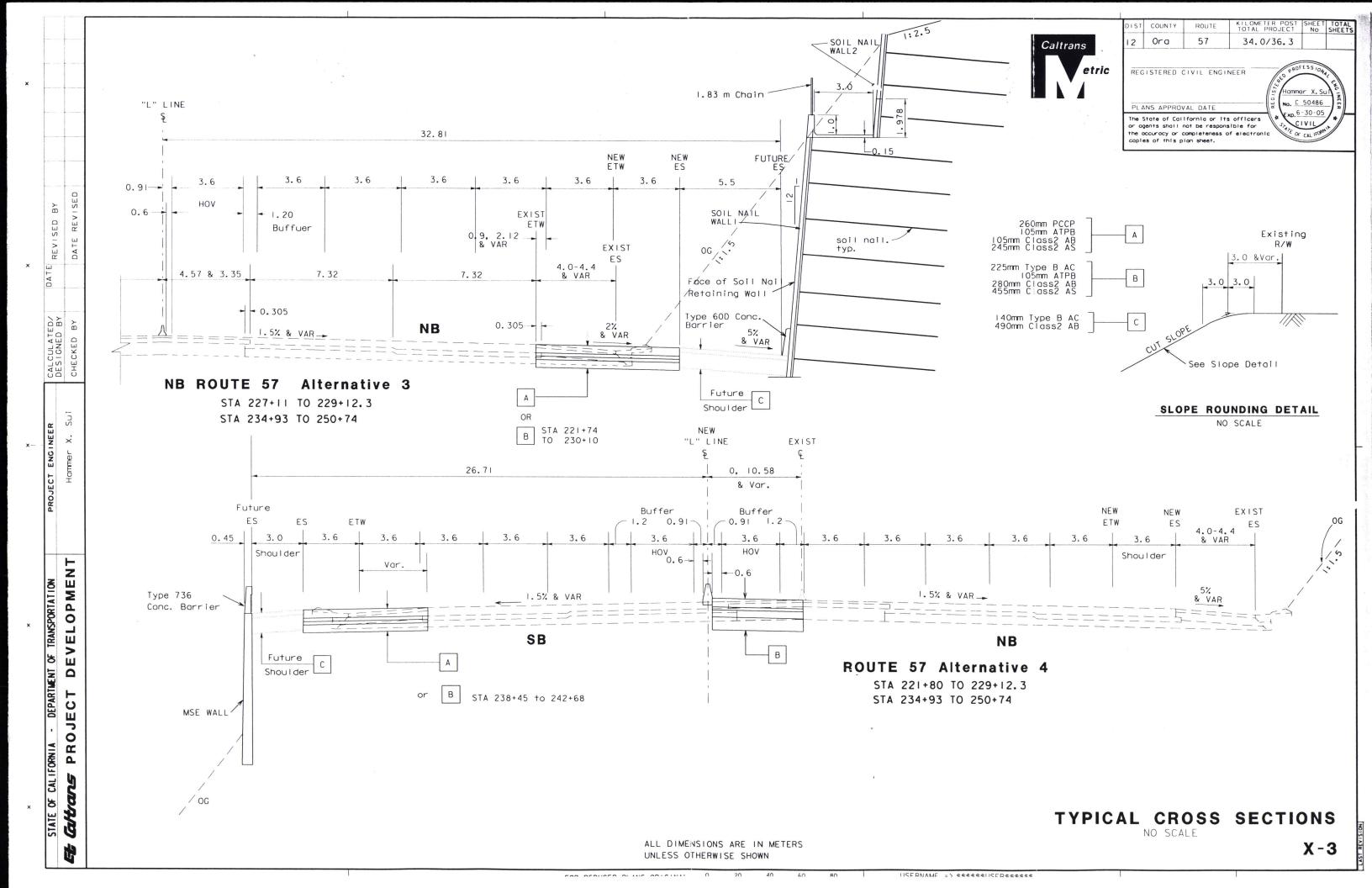
Hommer X. Sui

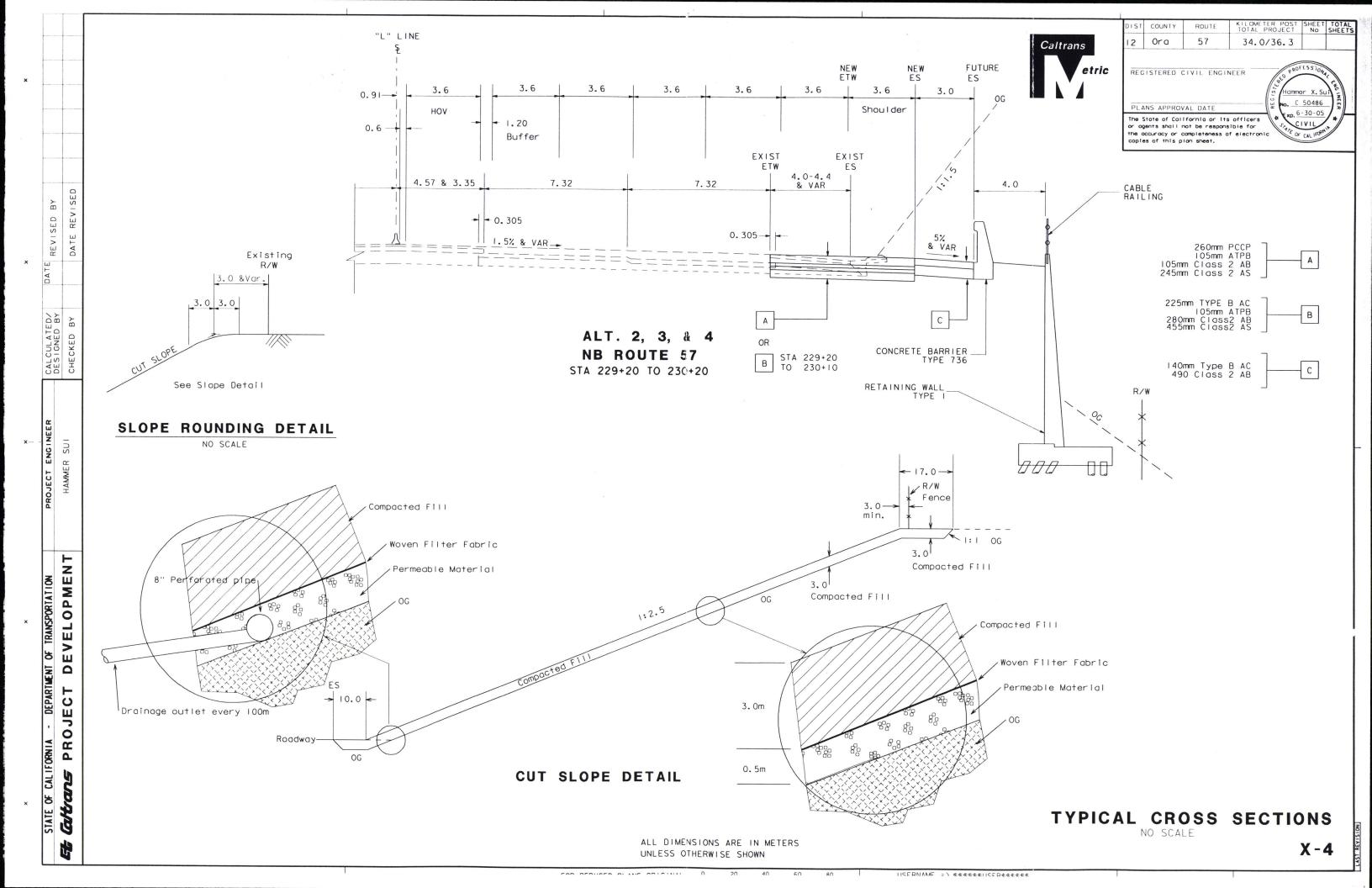
DEVELOPMENT

Et Caltrains PROJECT

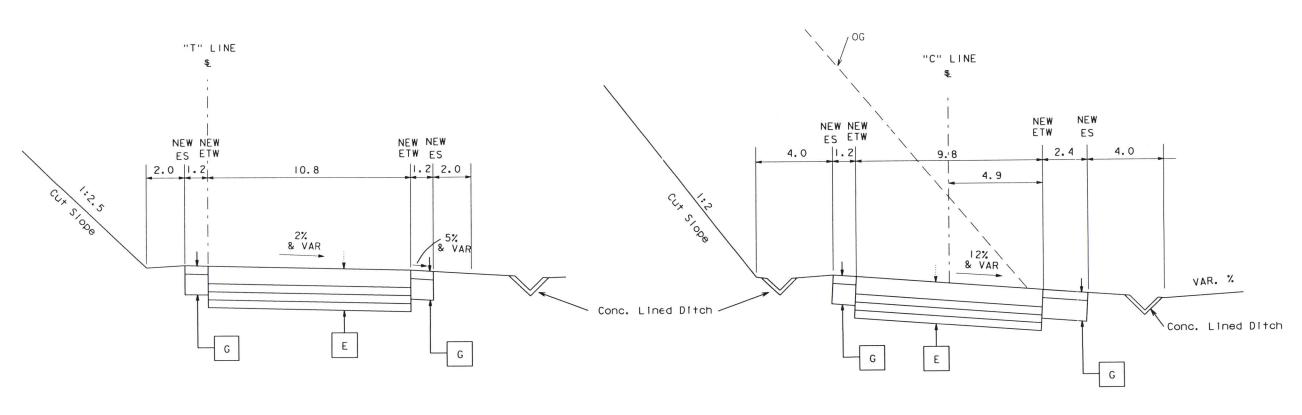


TONNER CANYON BRIDGE
TYPICAL SECTIONS





KILOMETER POST SHEET TOTAL TOTAL PROJECT NO SHEETS 12 ORANGE 57 34.0/36.3 + 1.1 & LOS ANGELES



Ramp "T" Lambert Road Northbound On-Ramp

HAMMER SUI

DEVELOPMENT

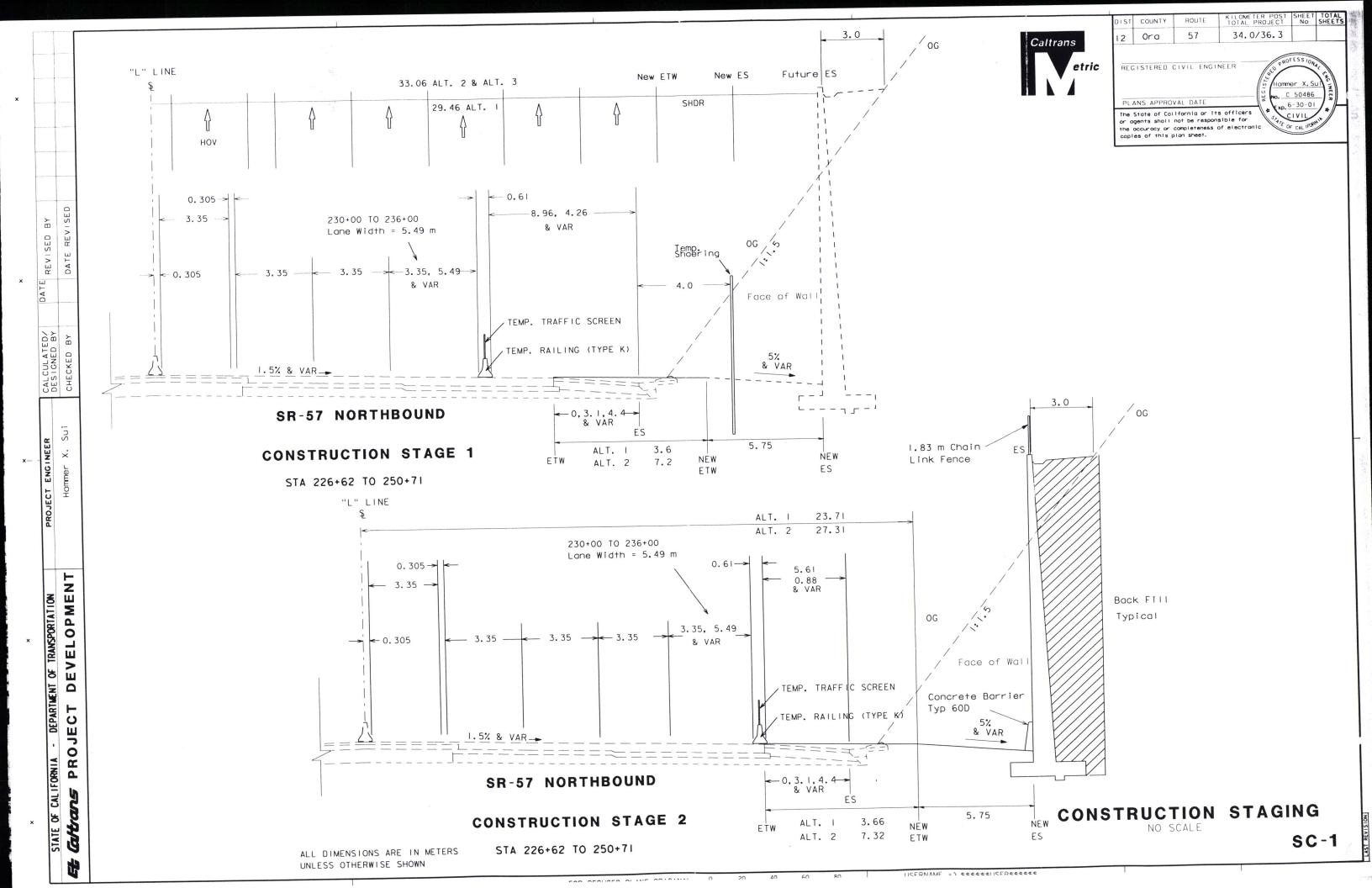
PROJECT

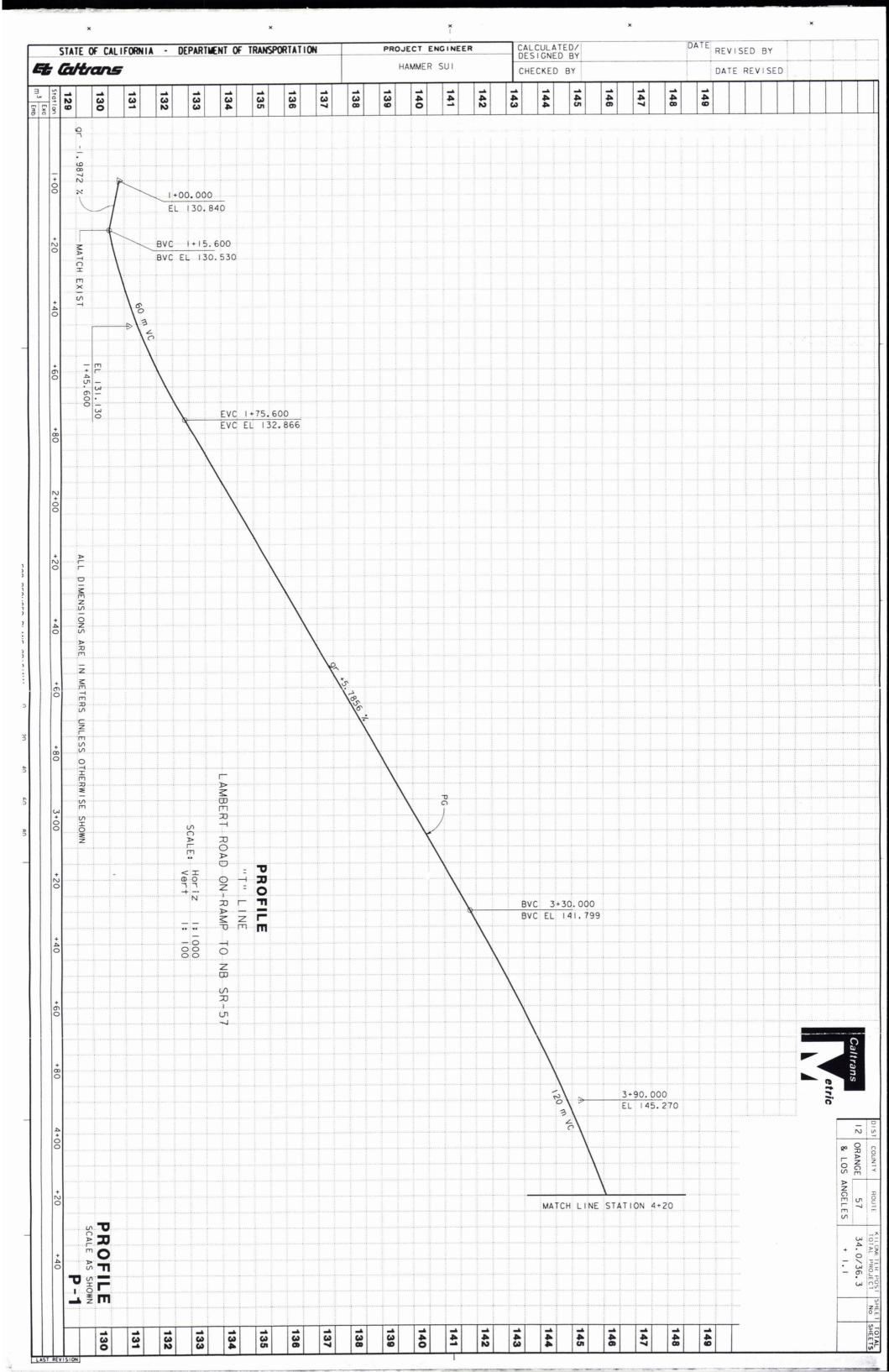
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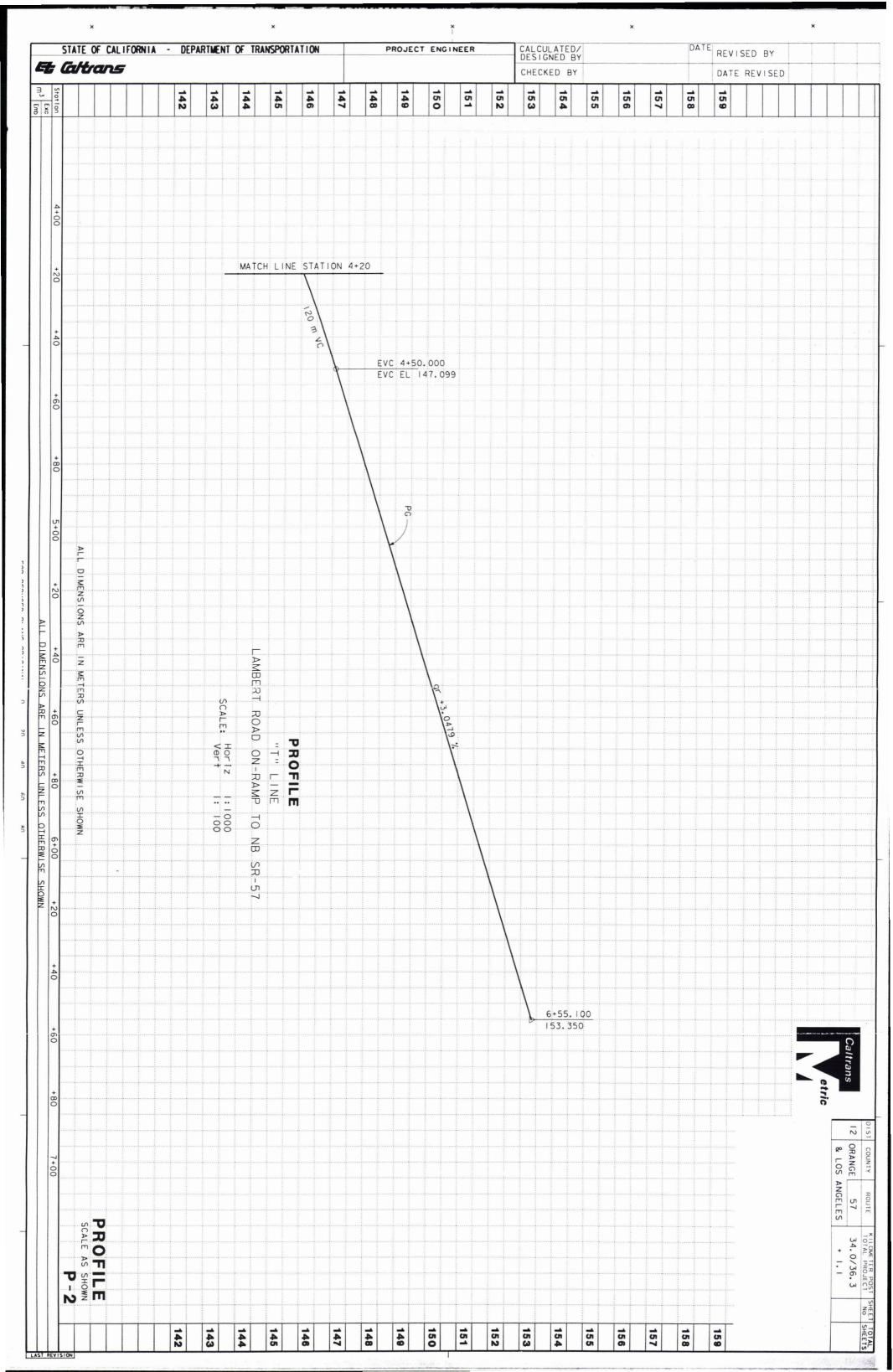
Ramp "C" Tonner Canyon Road Northbound Off-Ramp

Ramp Typical Structural Sections 230mm PCCP 105mm ATPB 105mm Closs2 AB 105mm Closs2 AS | IIOmm Type B AC | 370mm Class2 AB

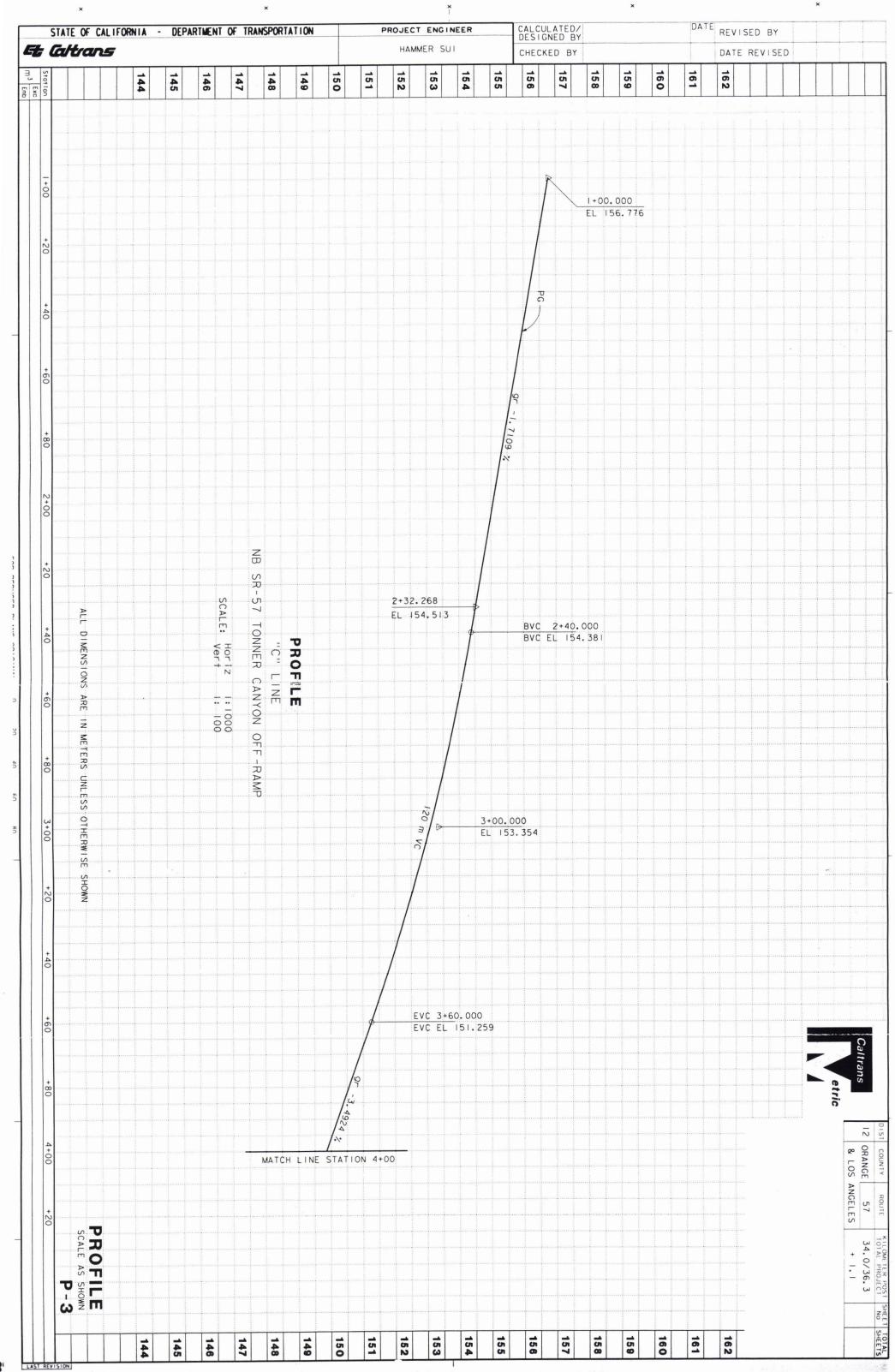
TYPICAL CROSS SECTIONS



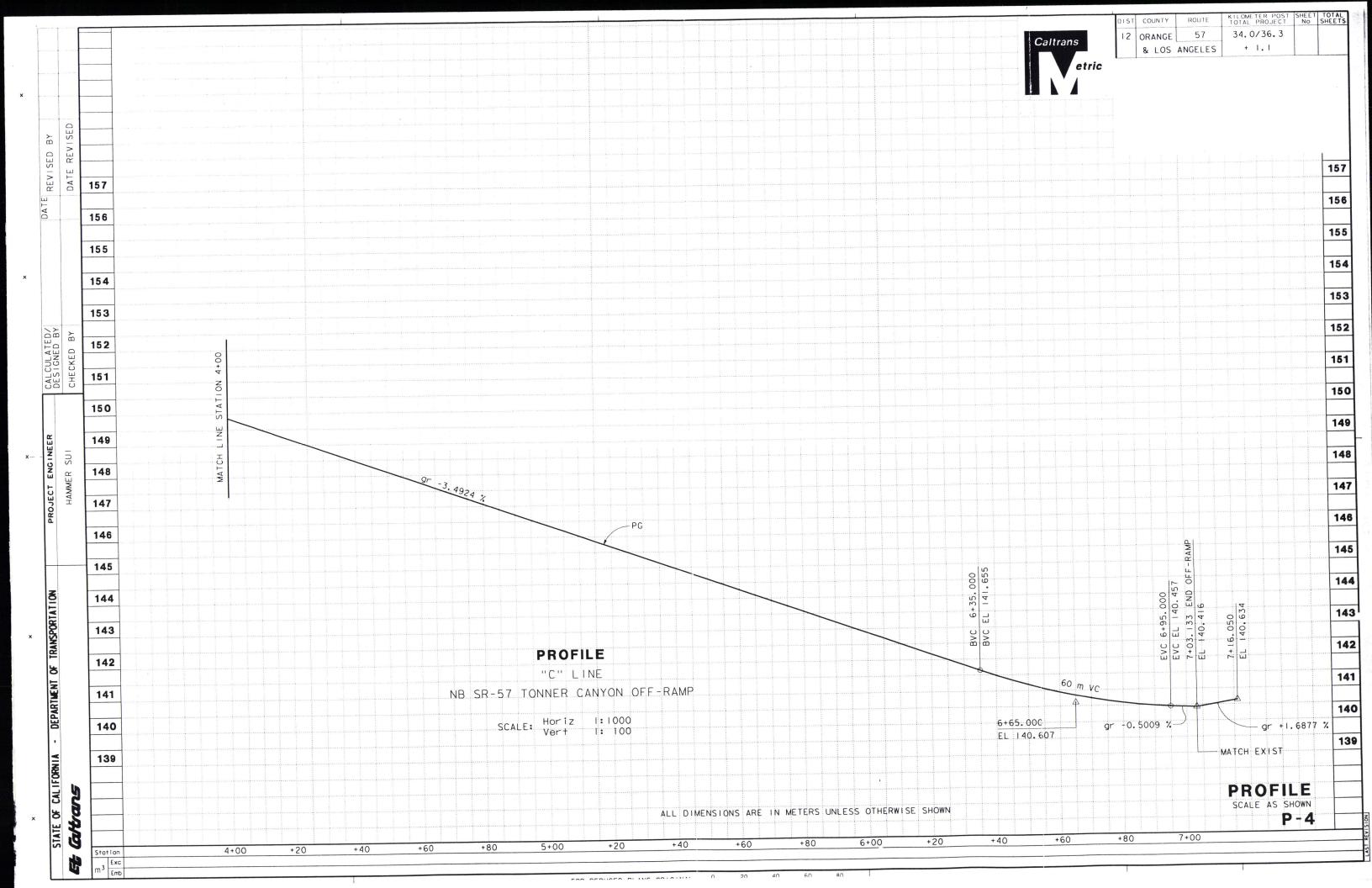


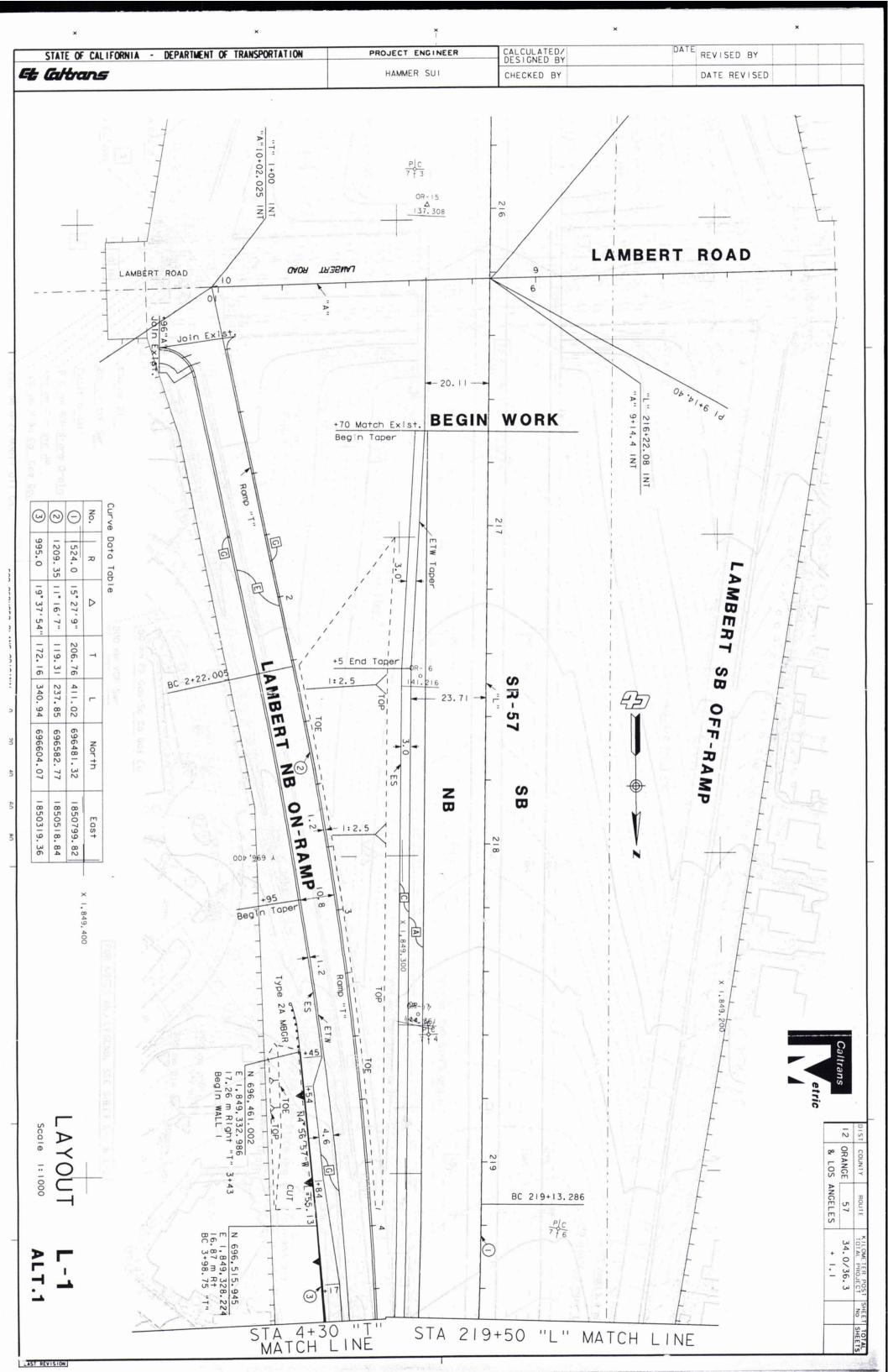


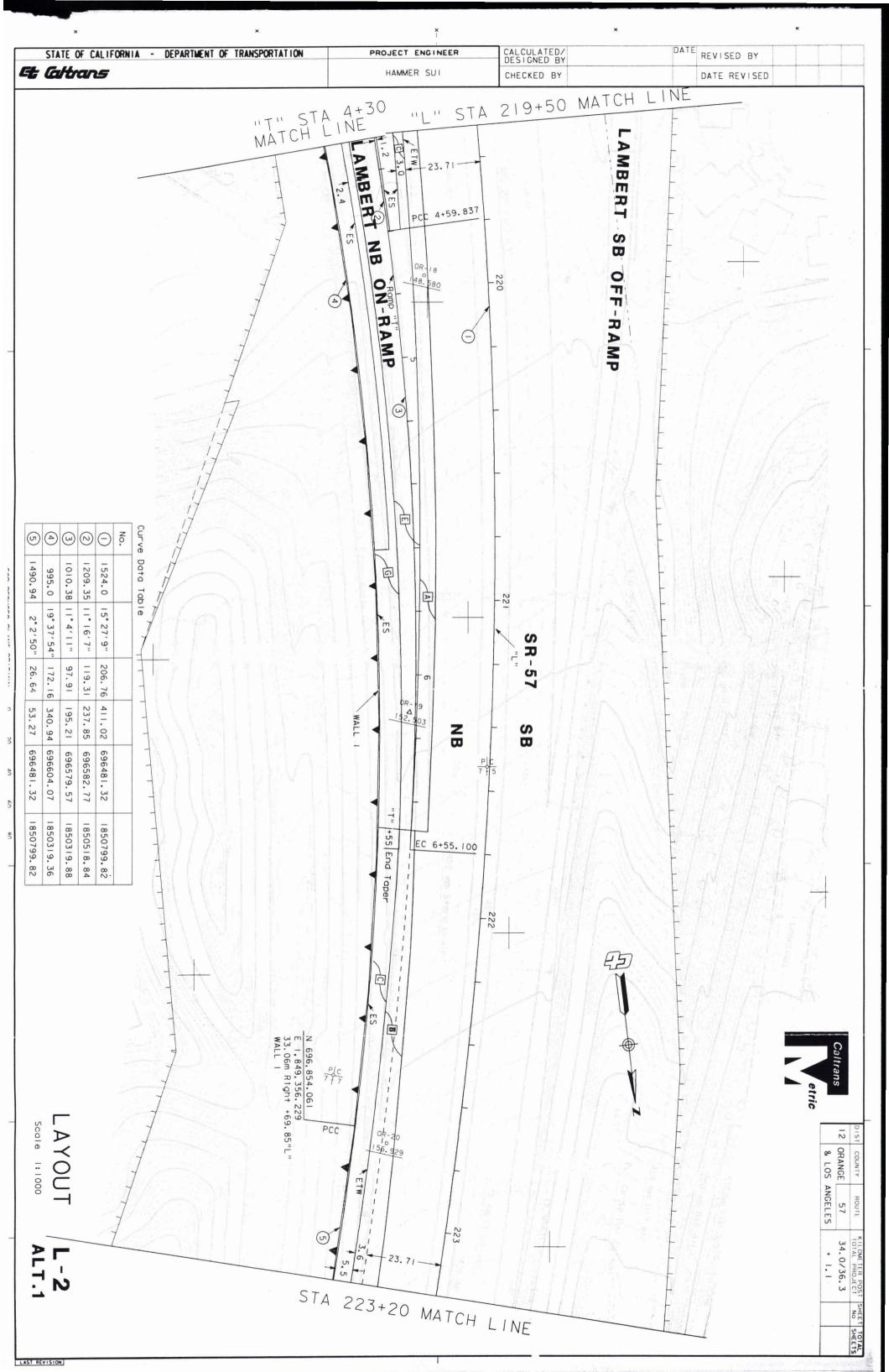


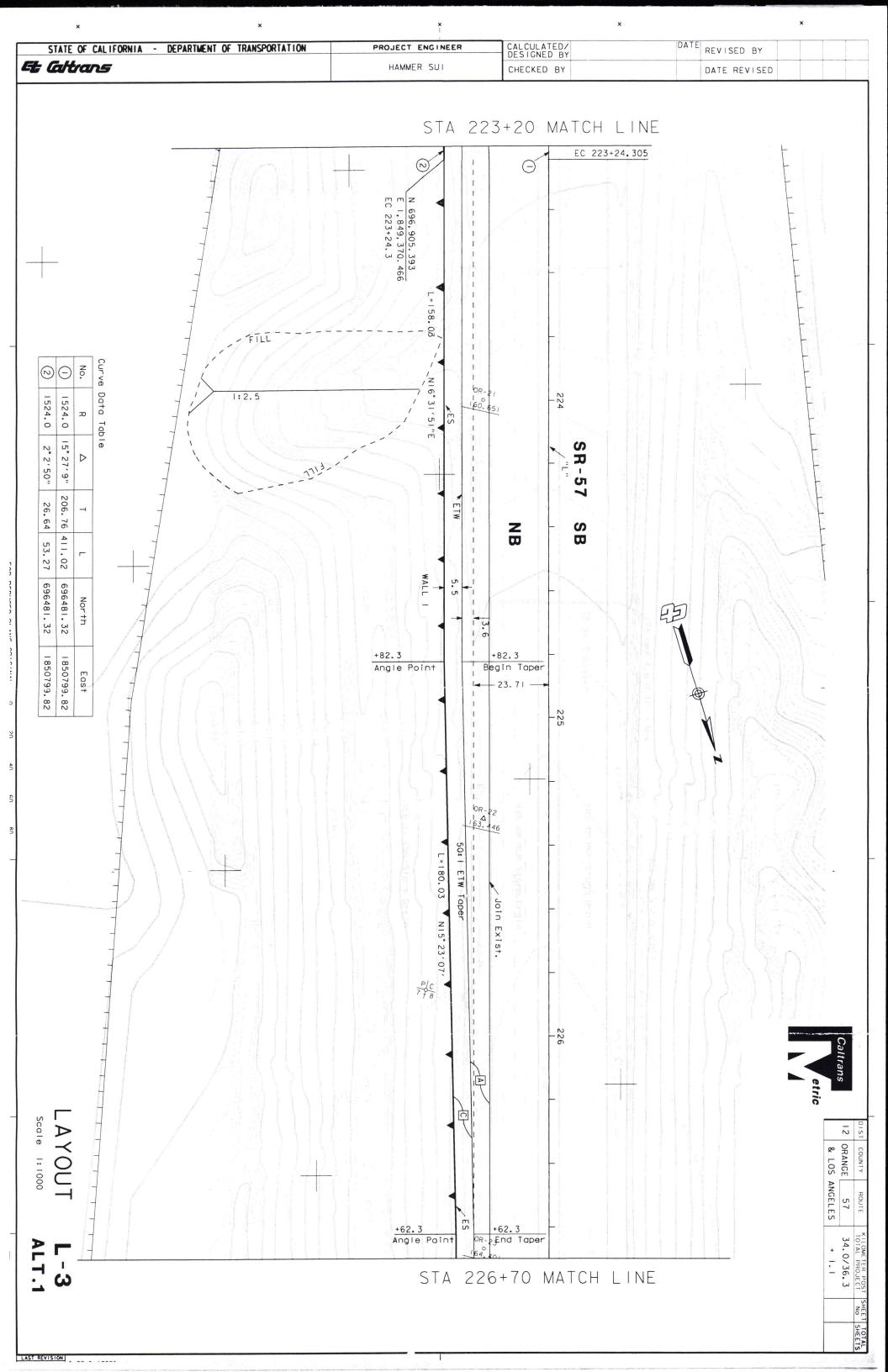


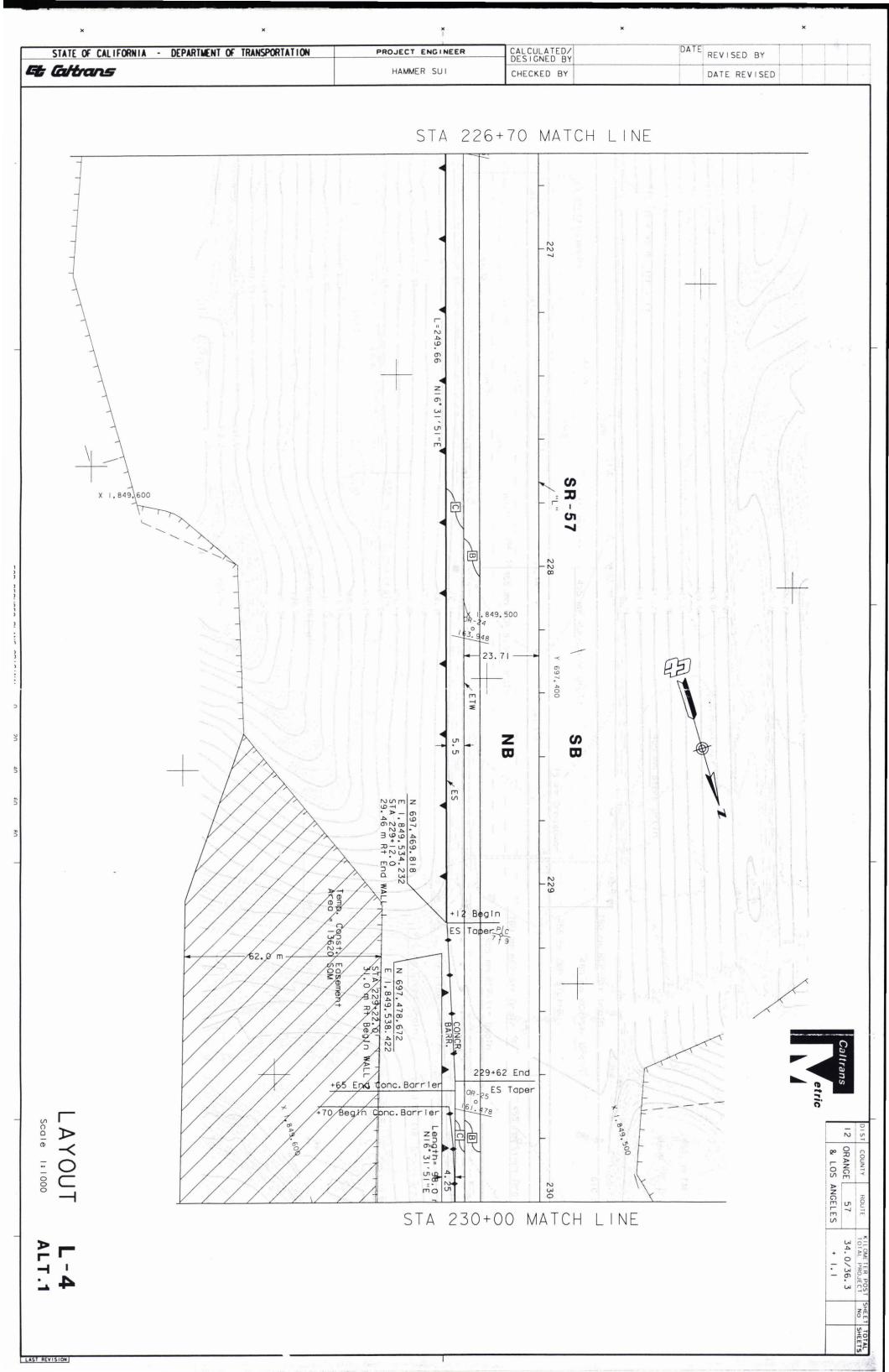
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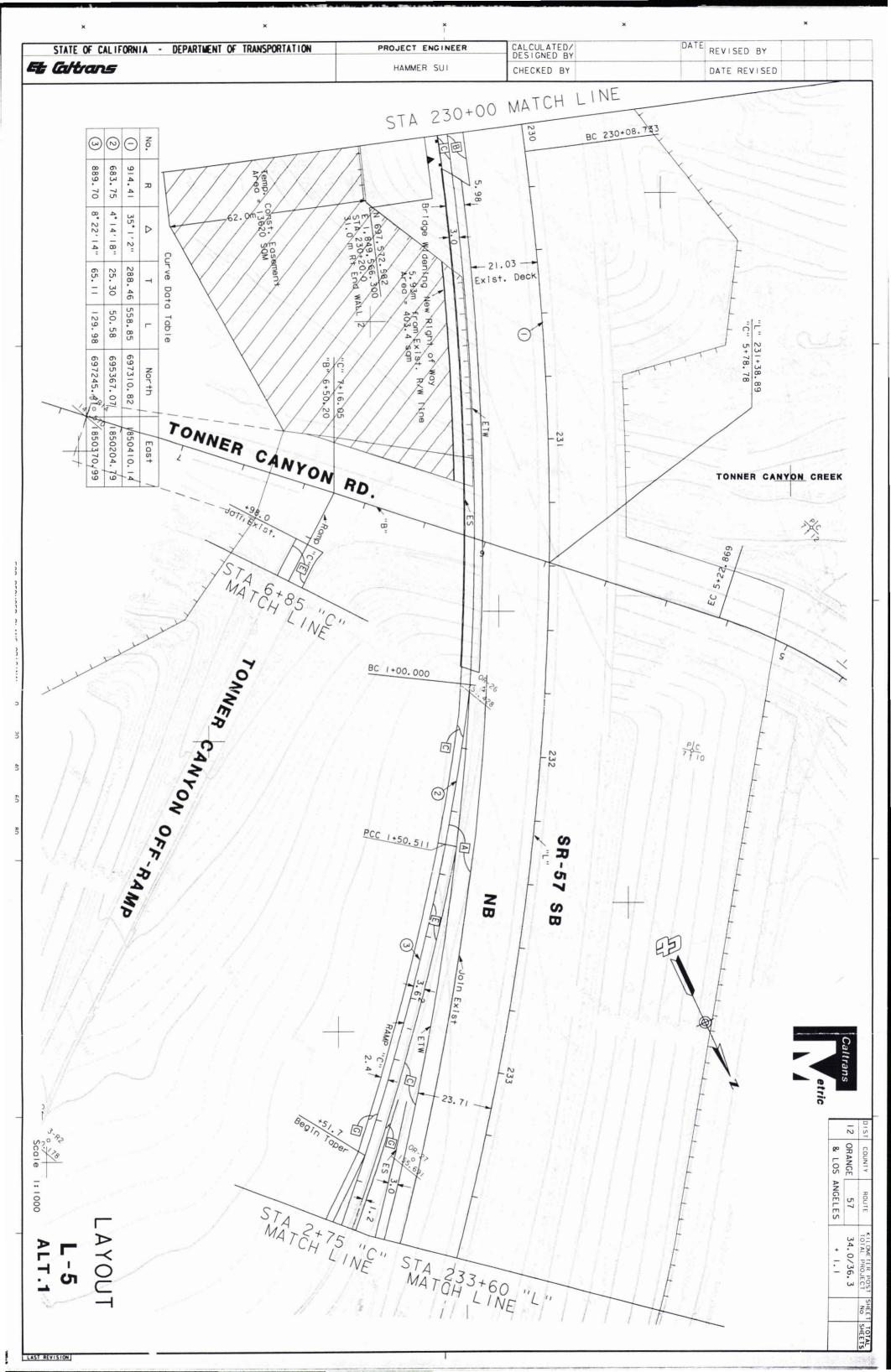


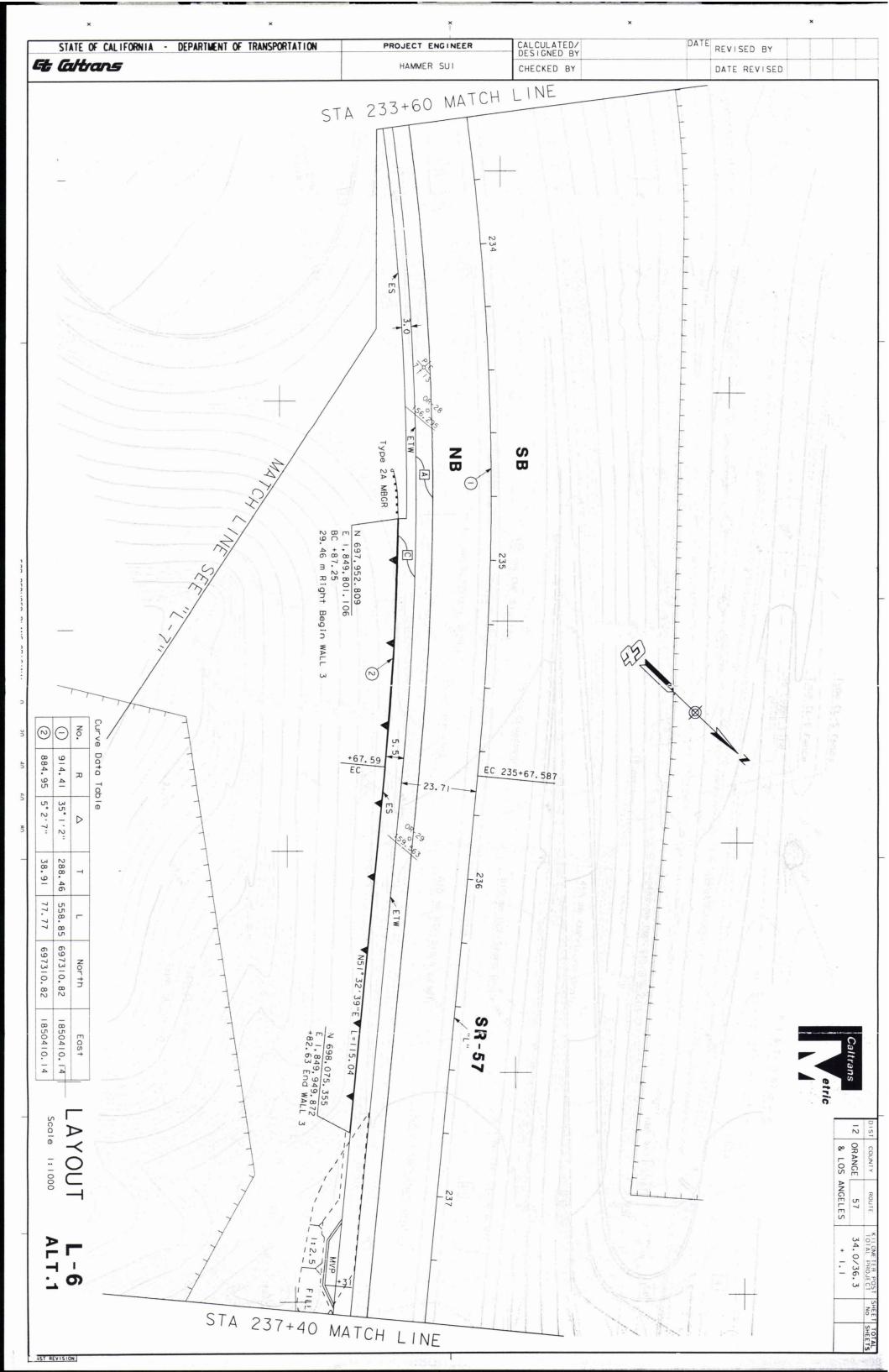


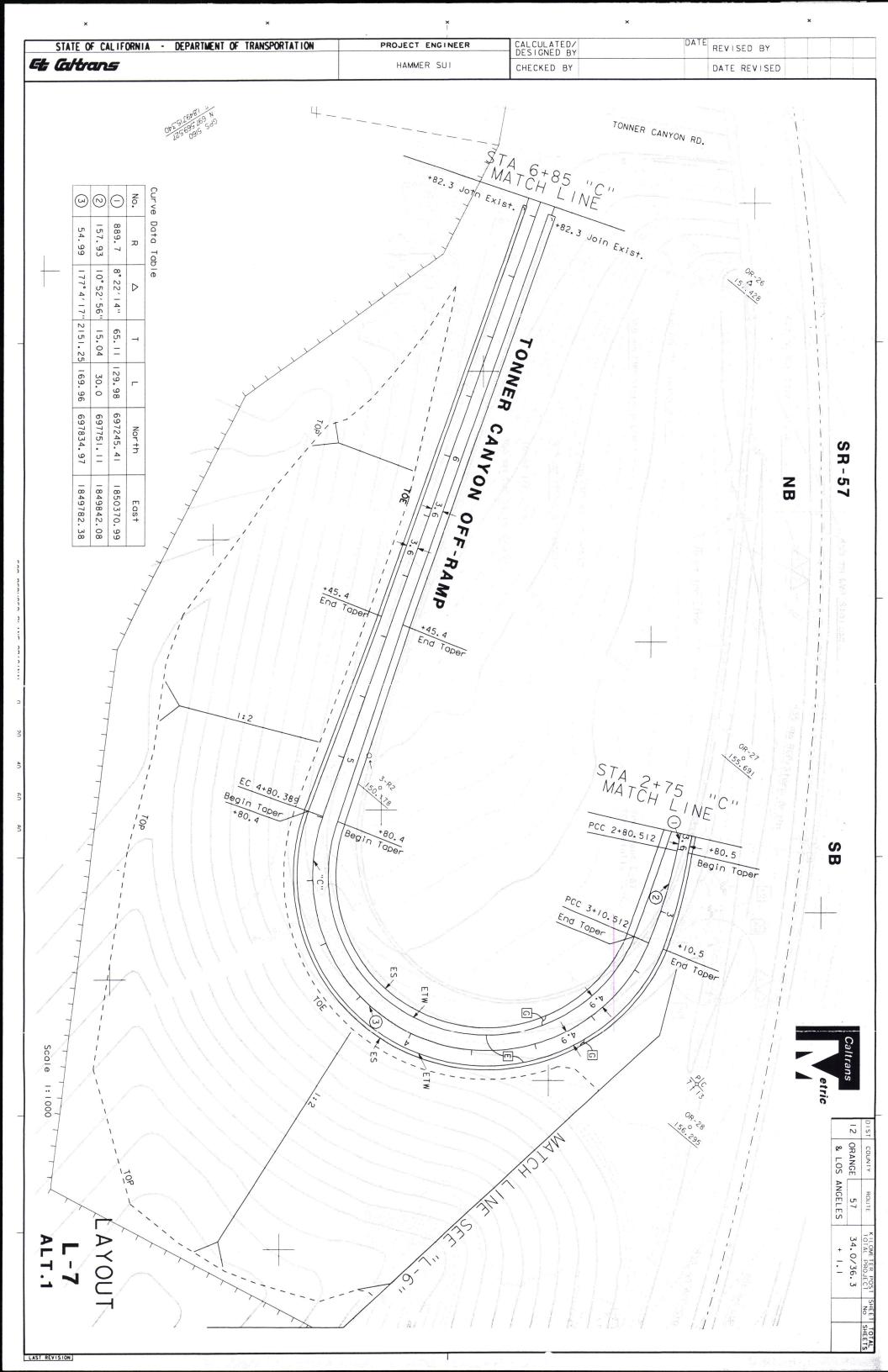


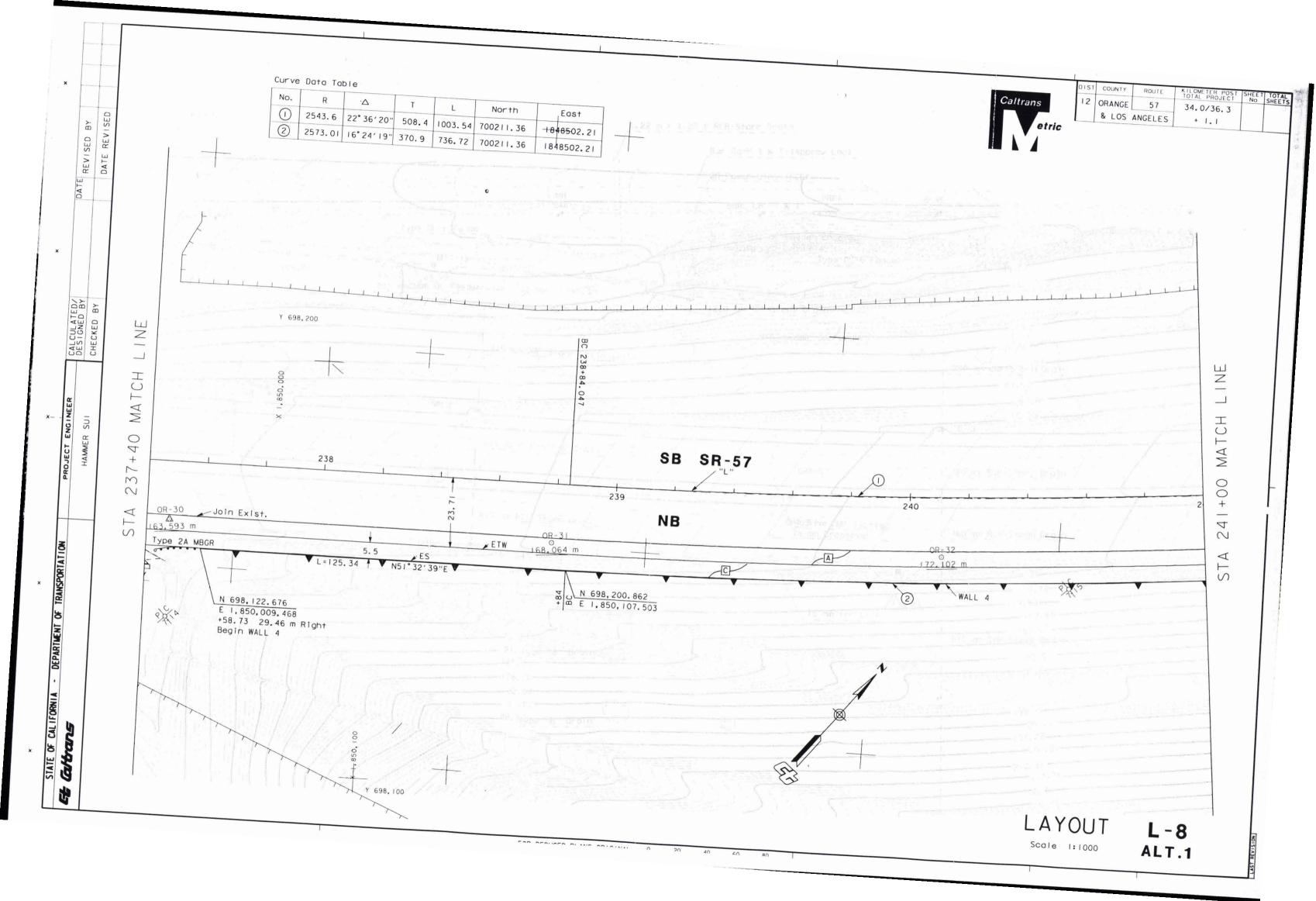


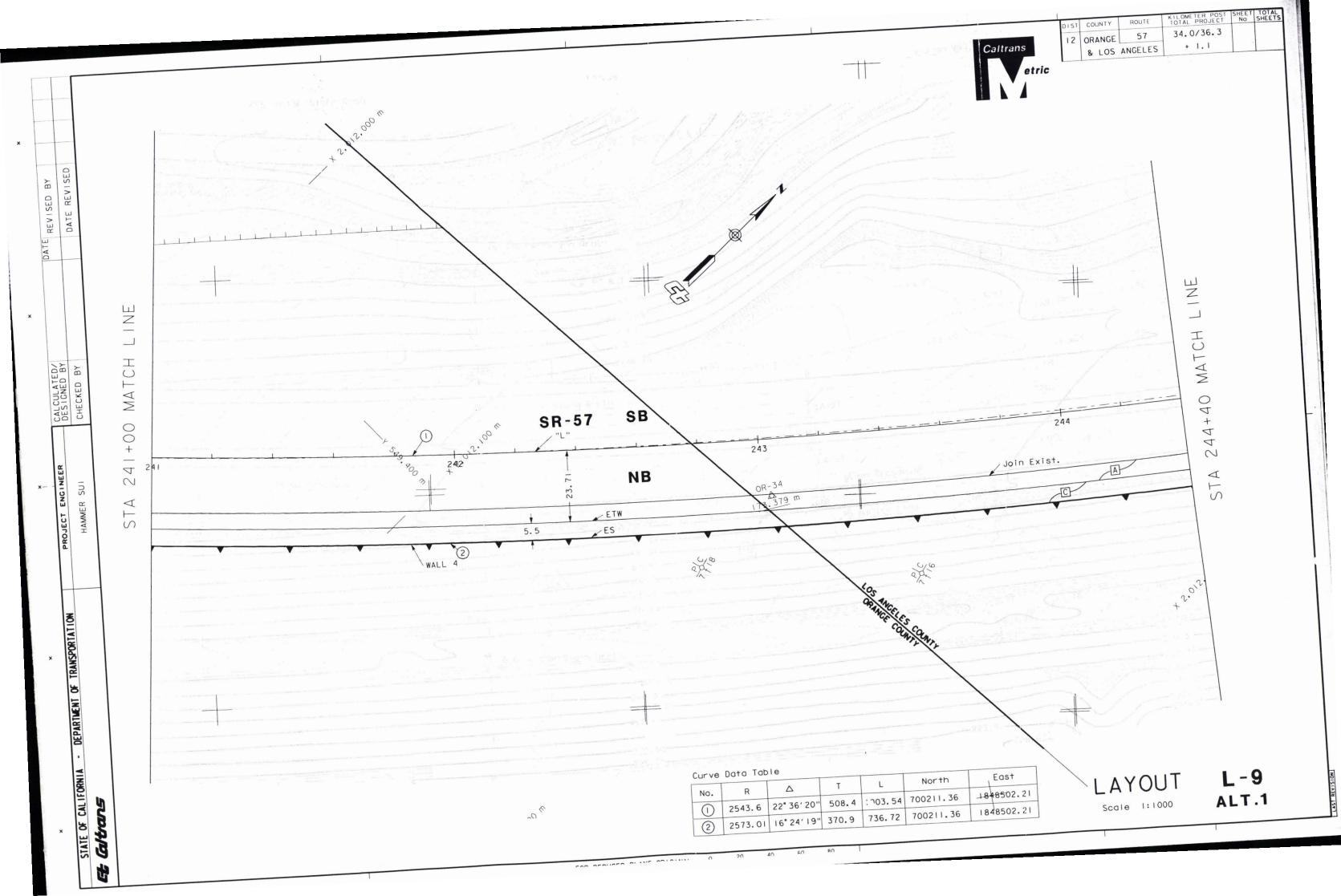


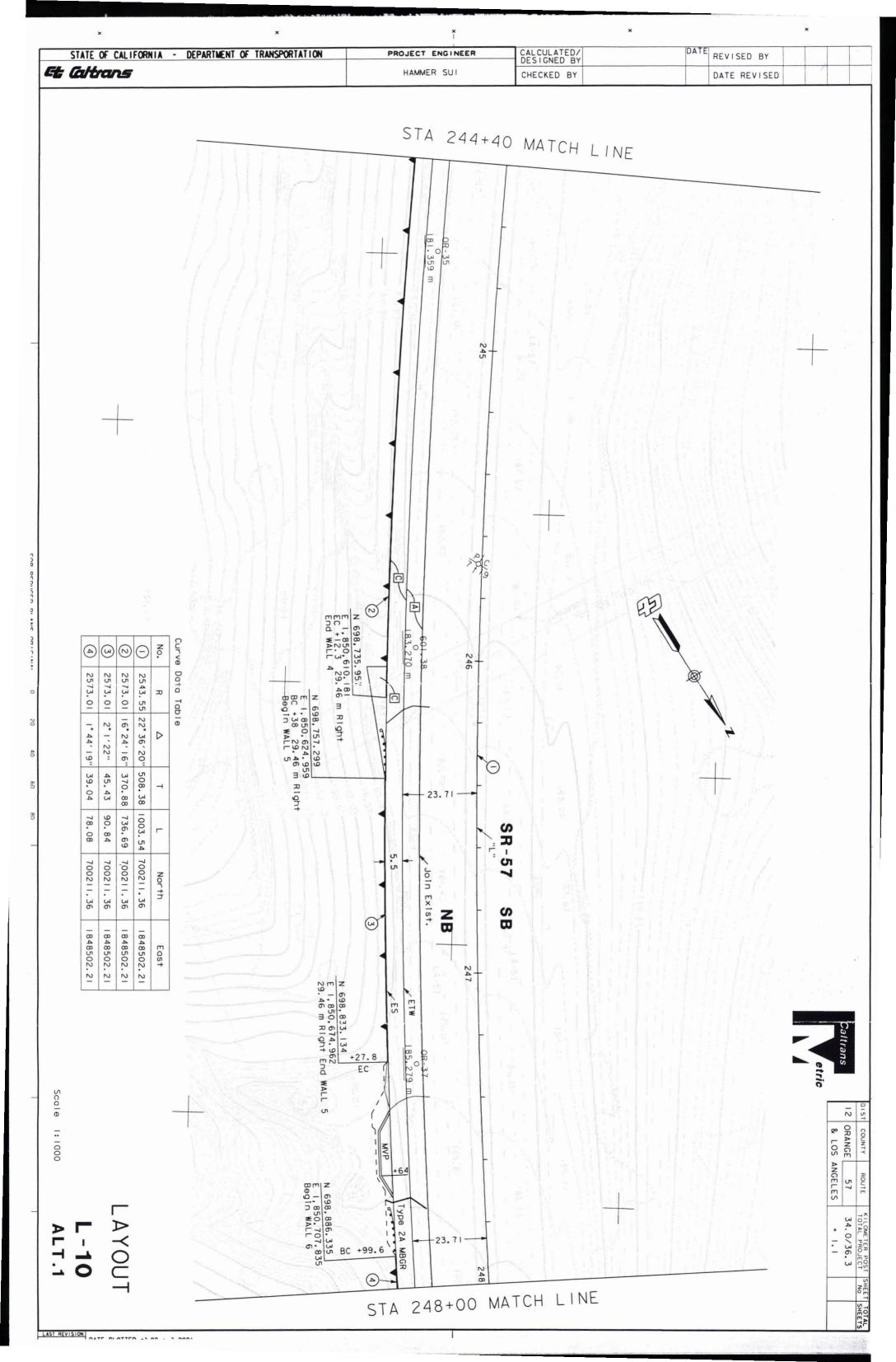


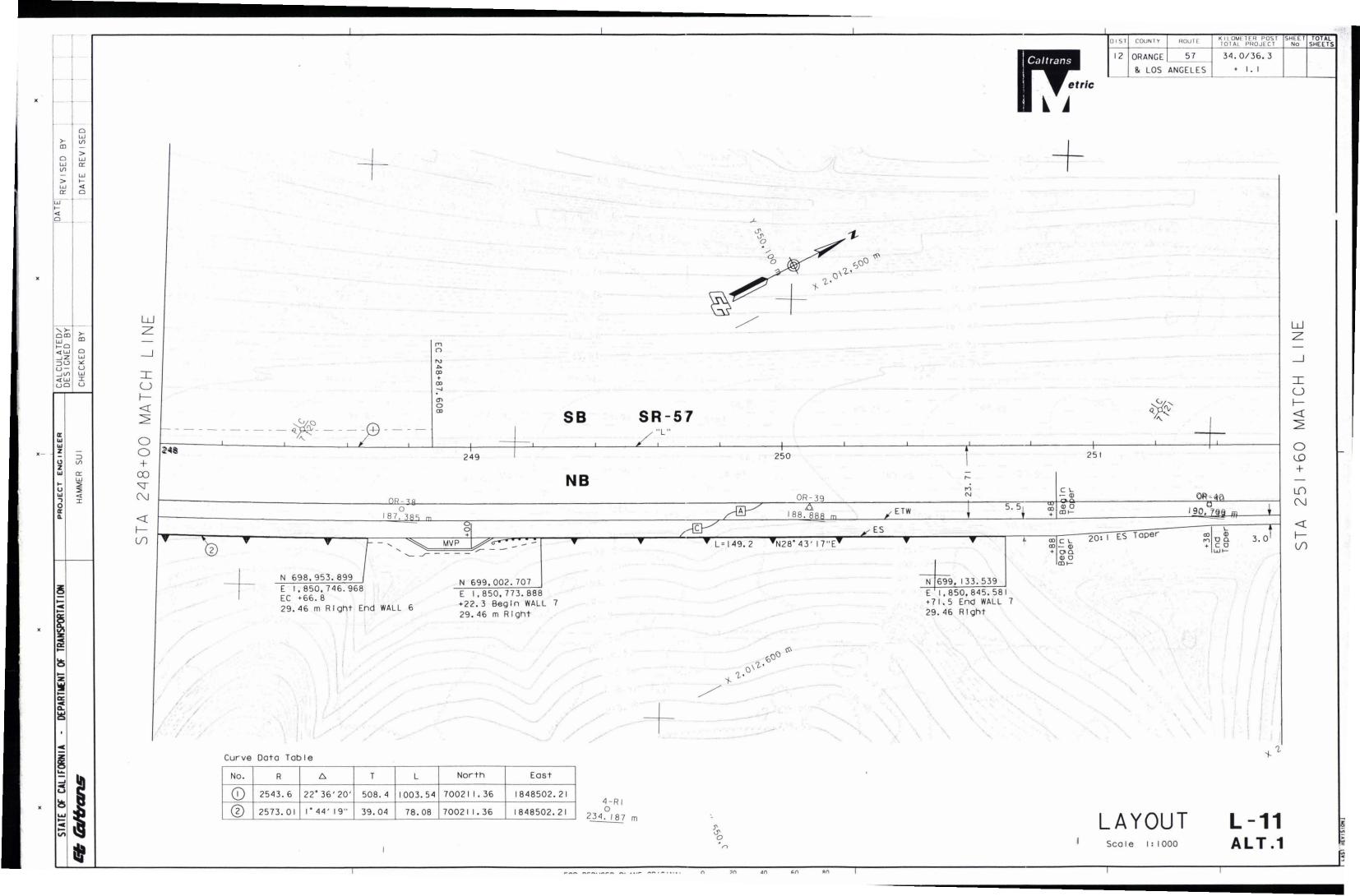


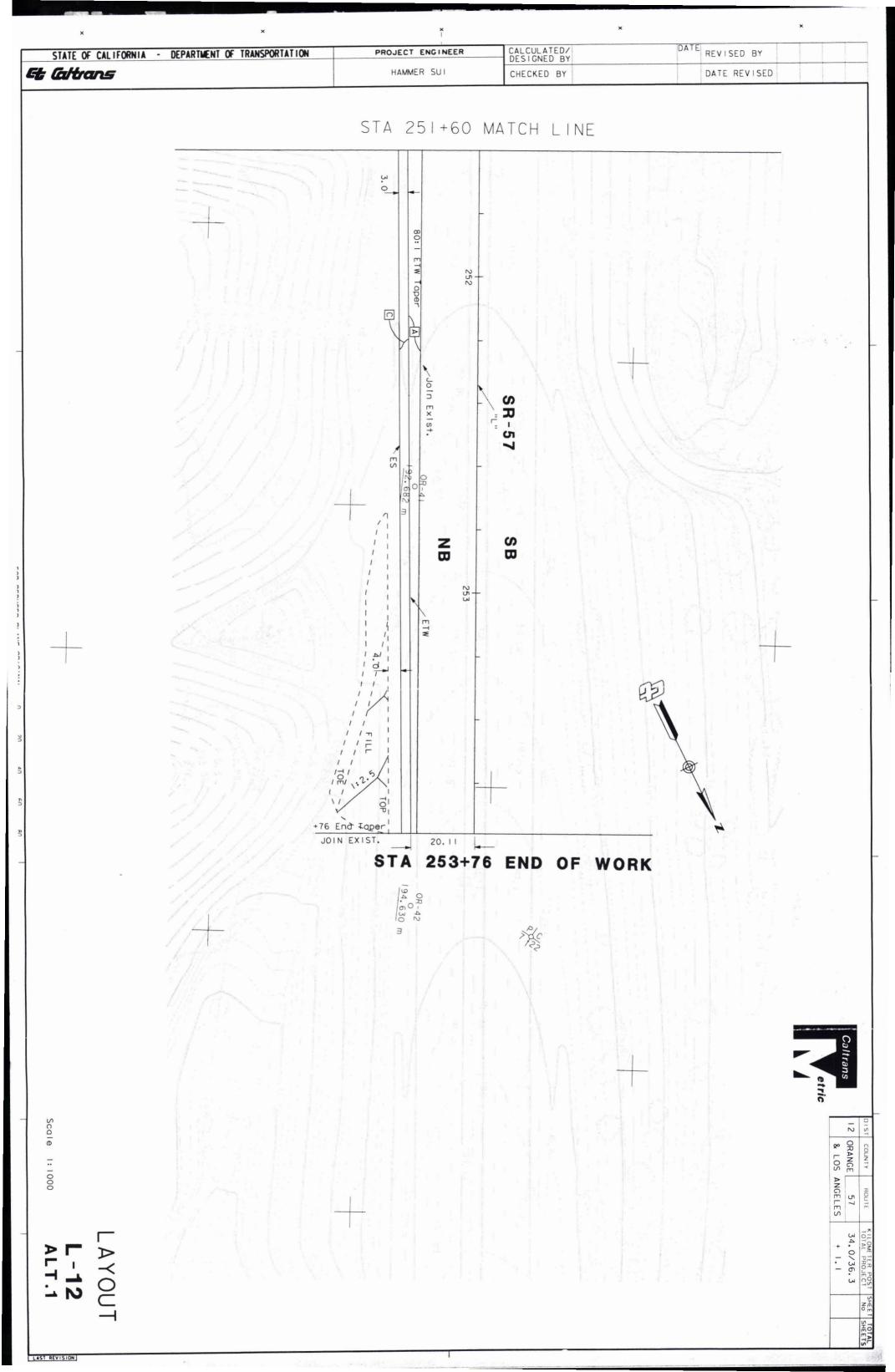


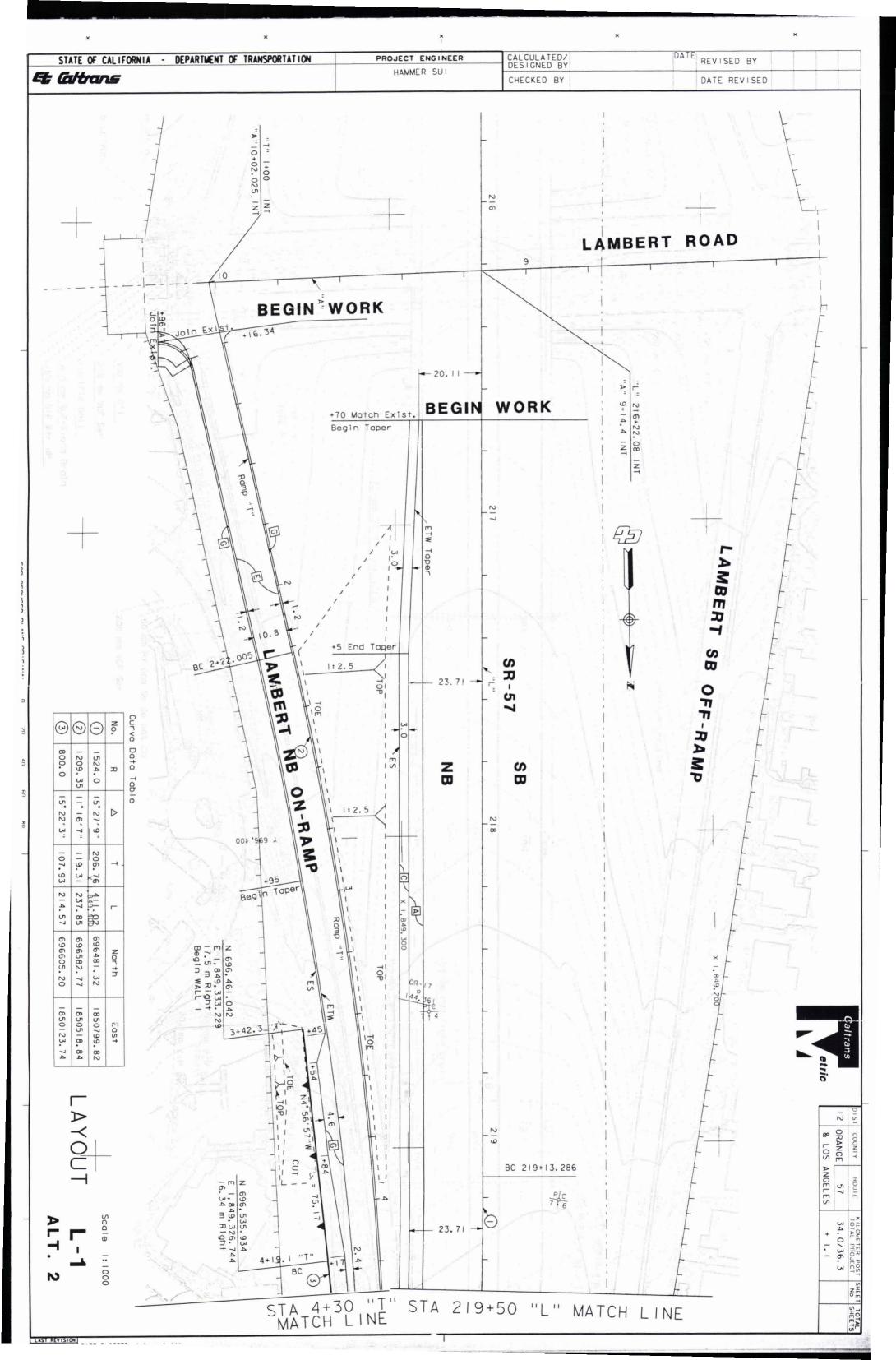


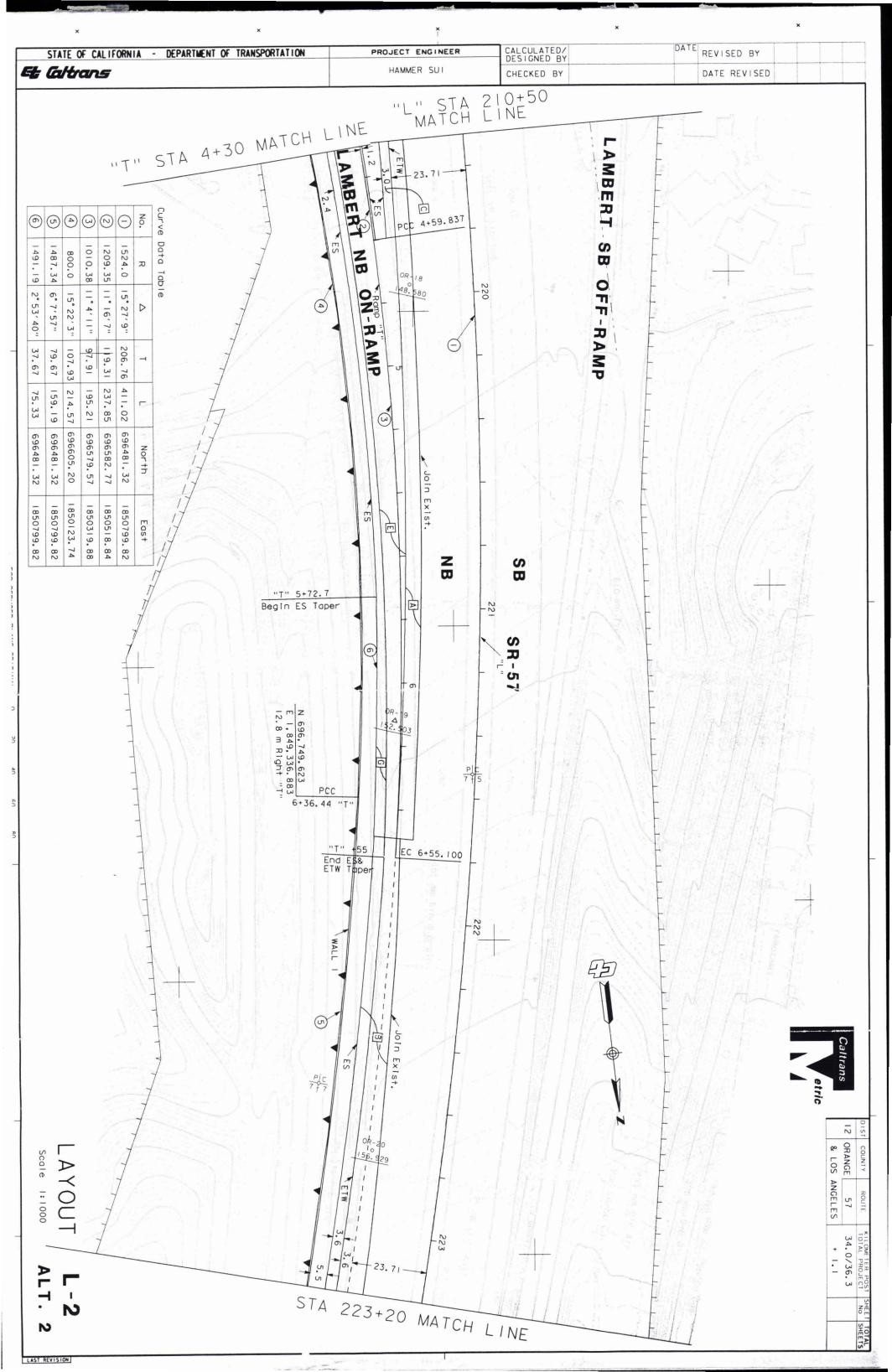


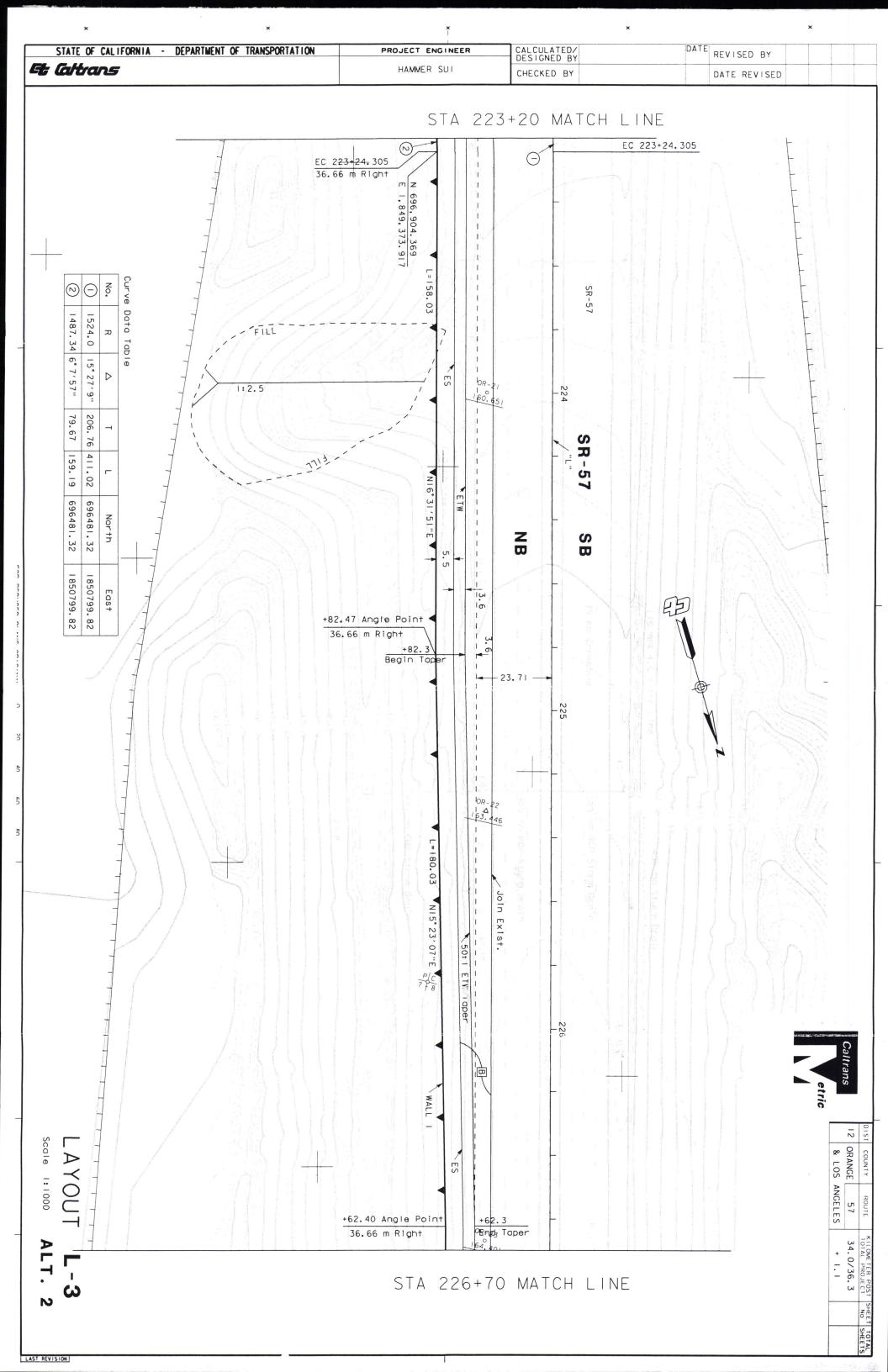


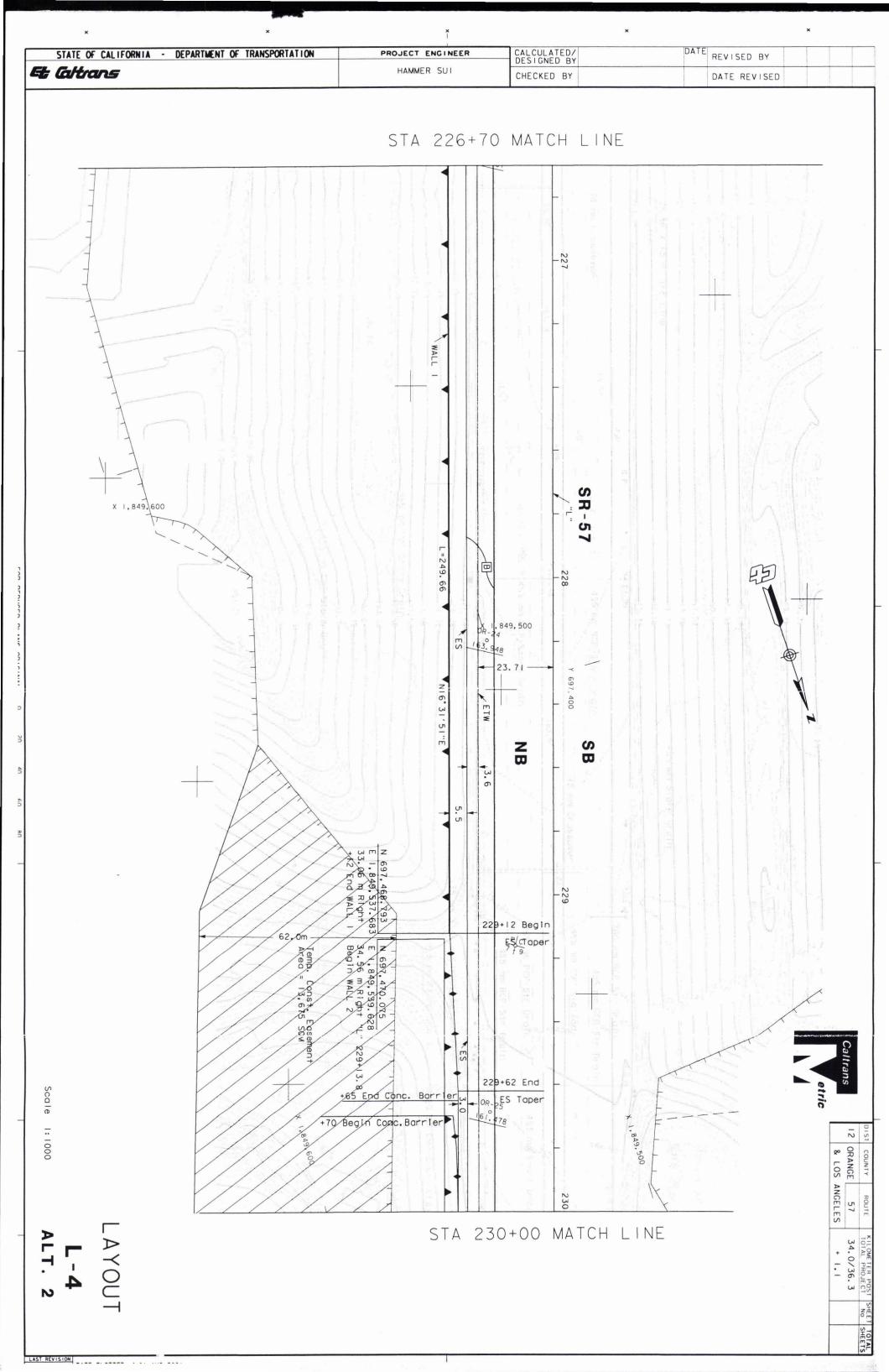


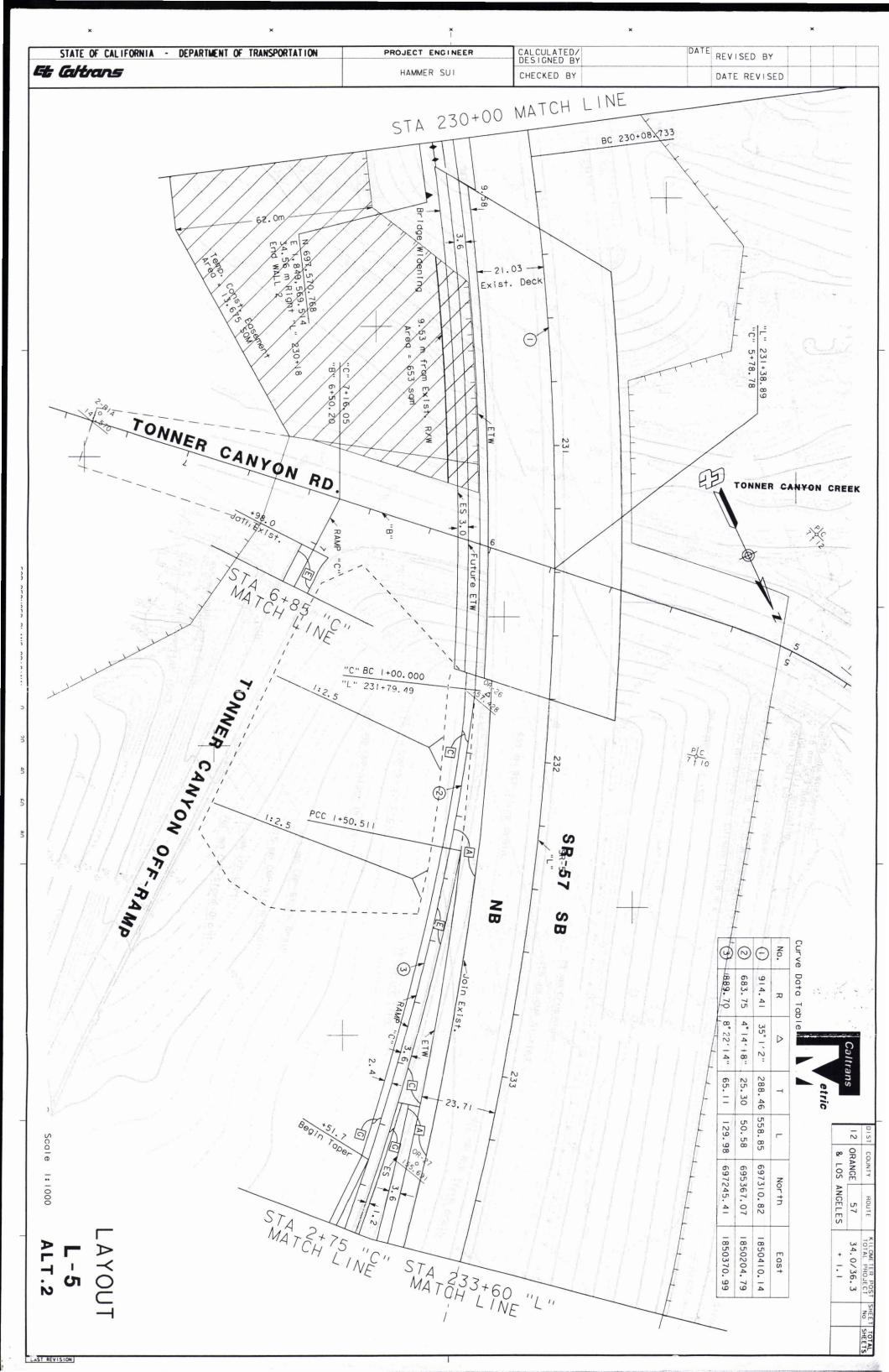


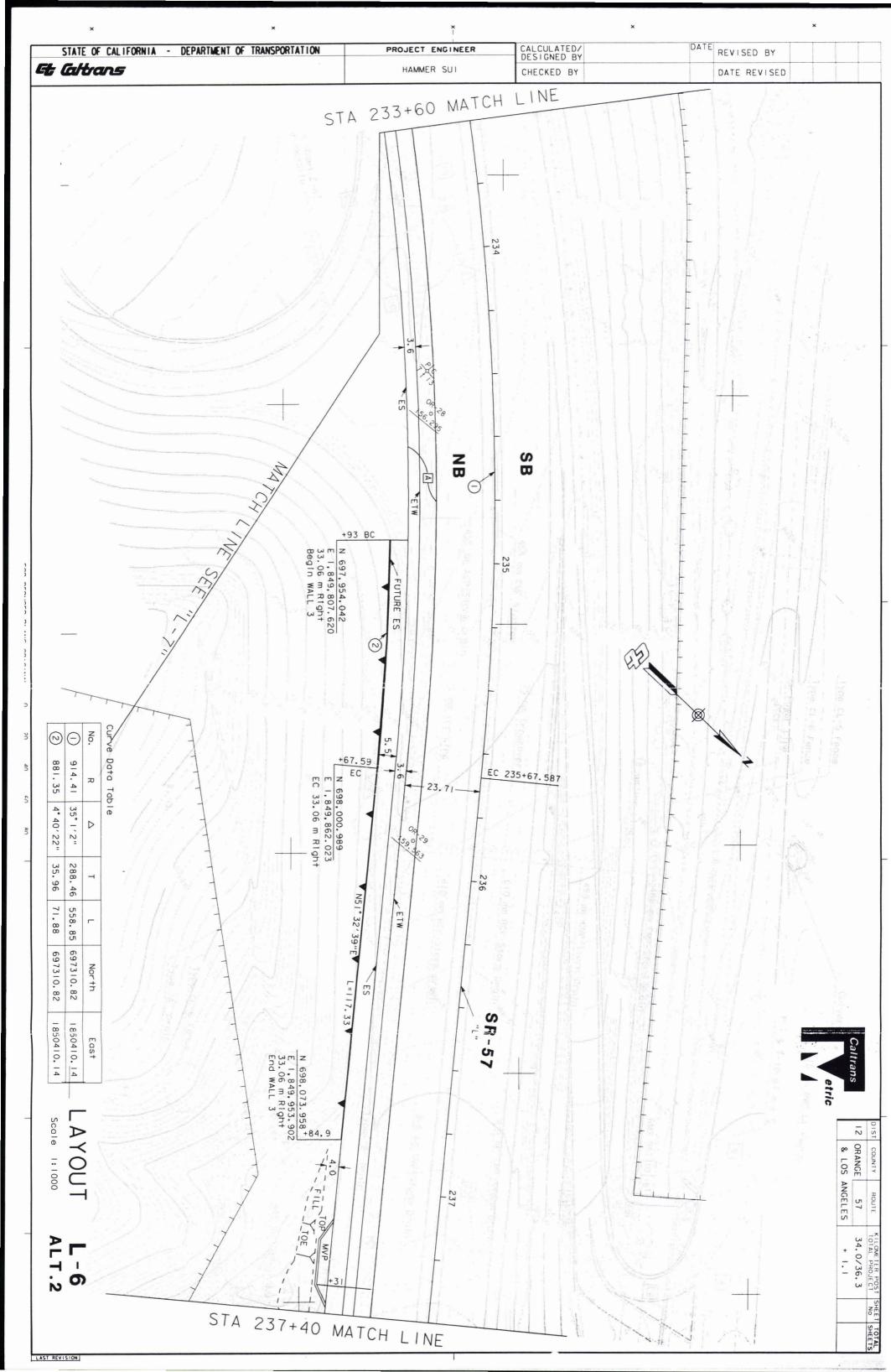


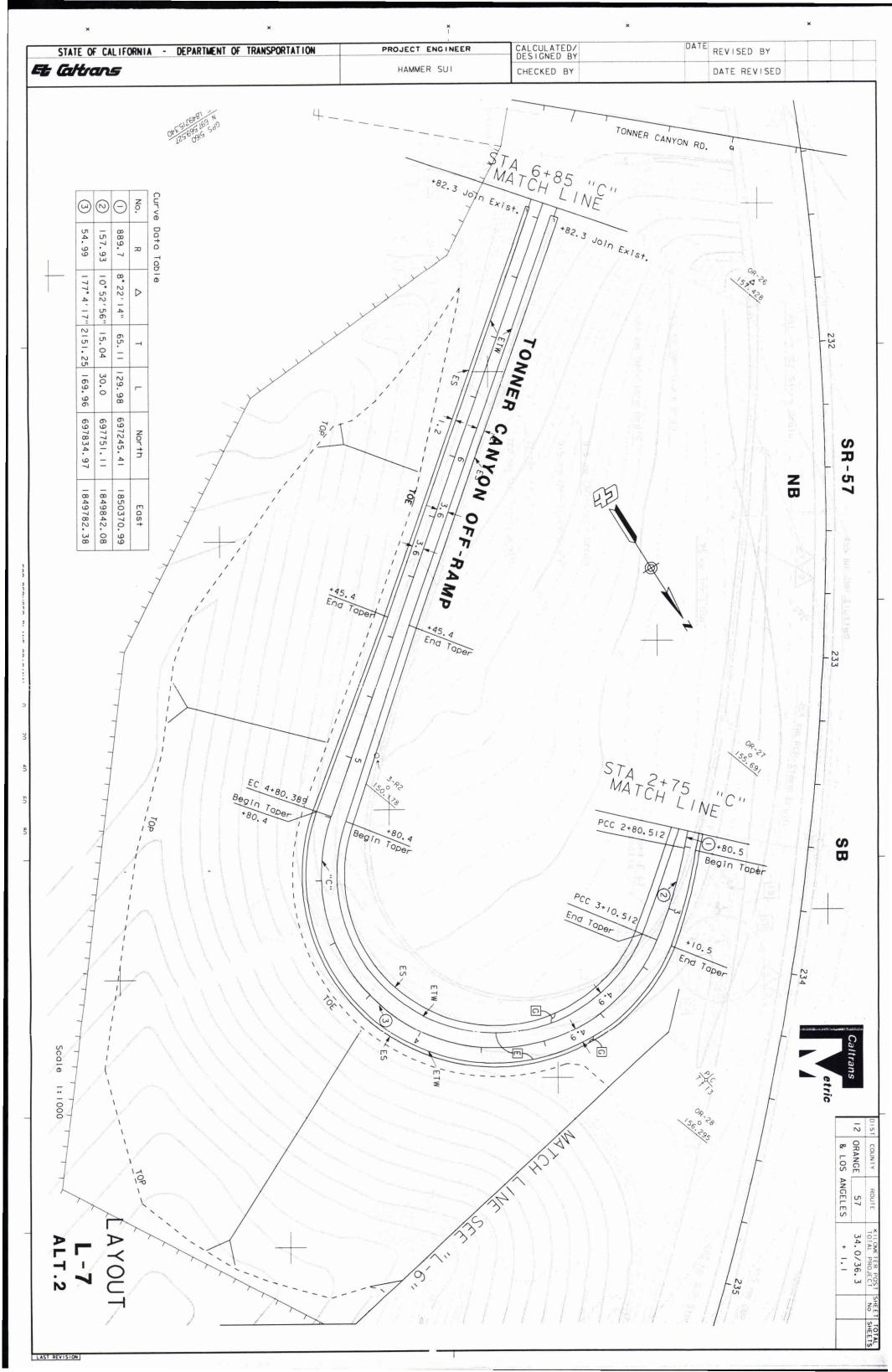


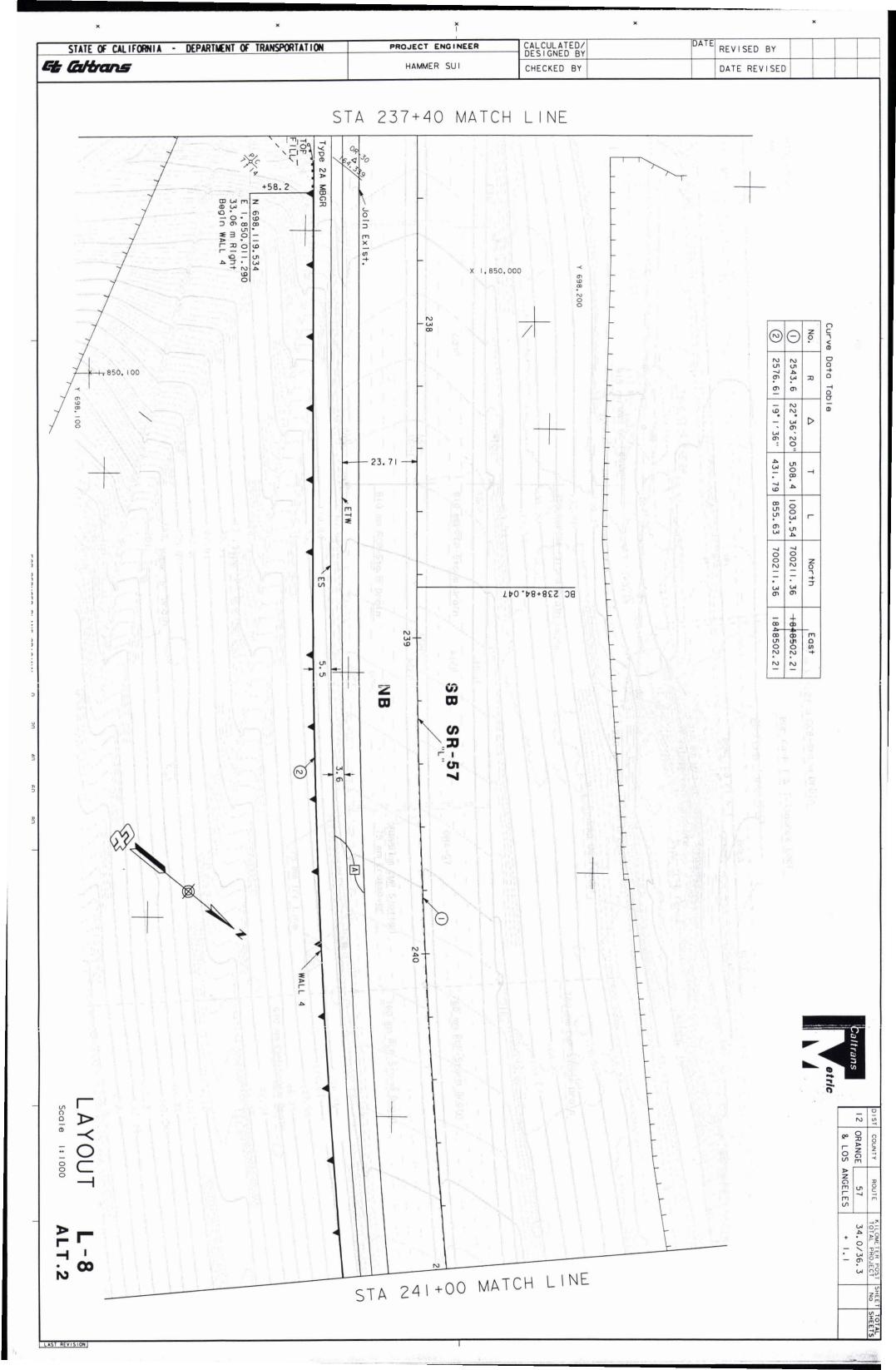


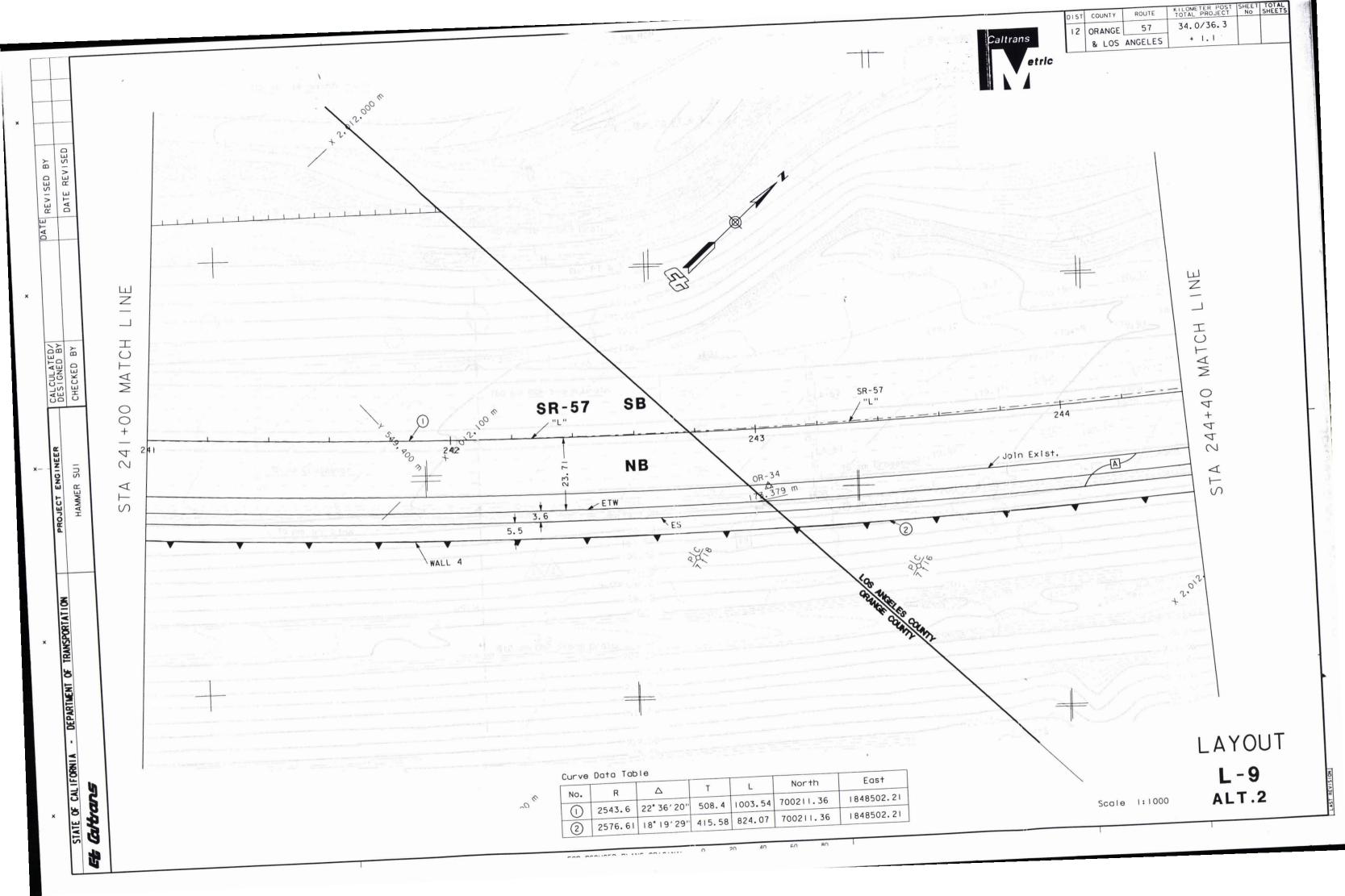


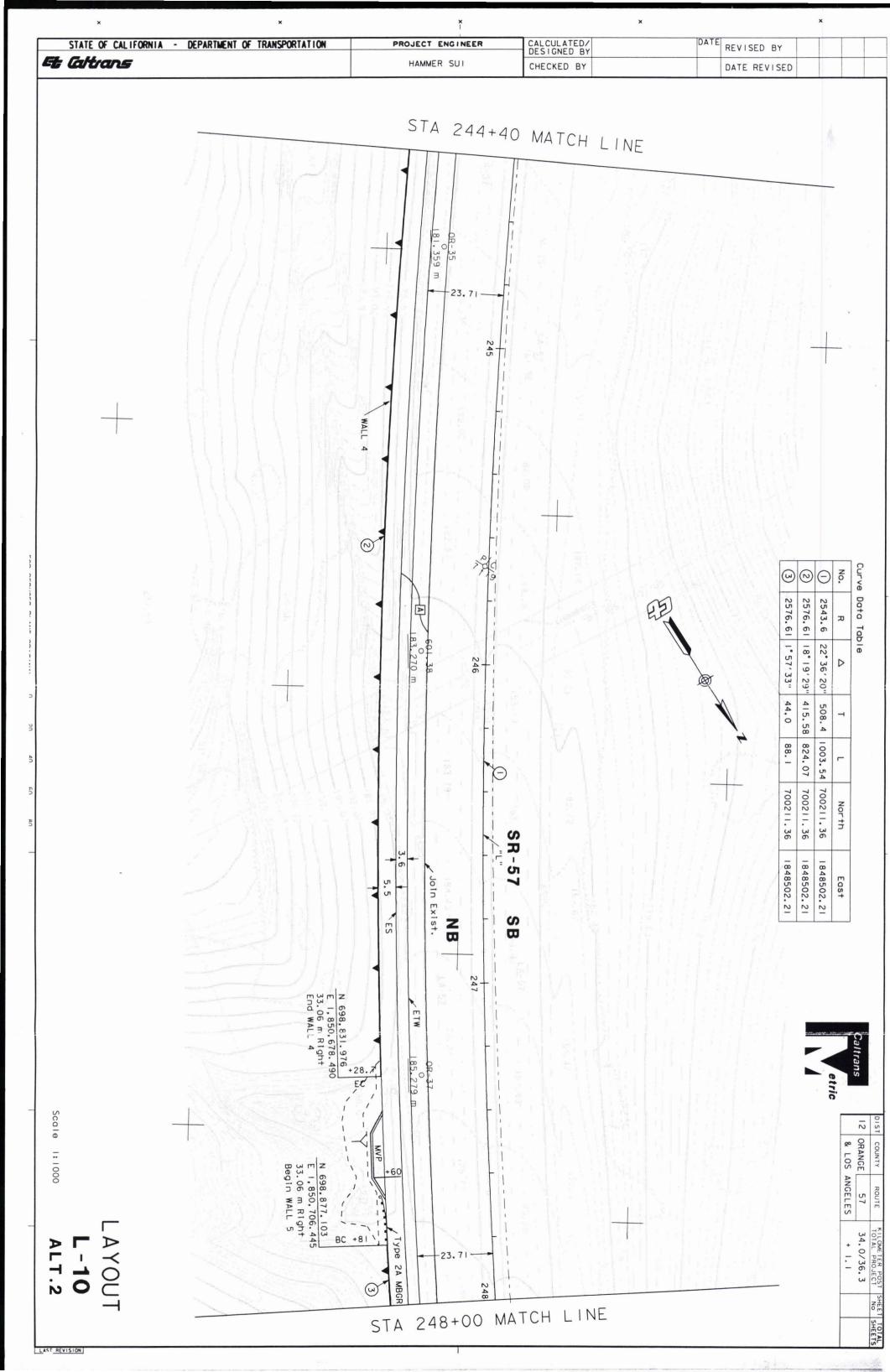


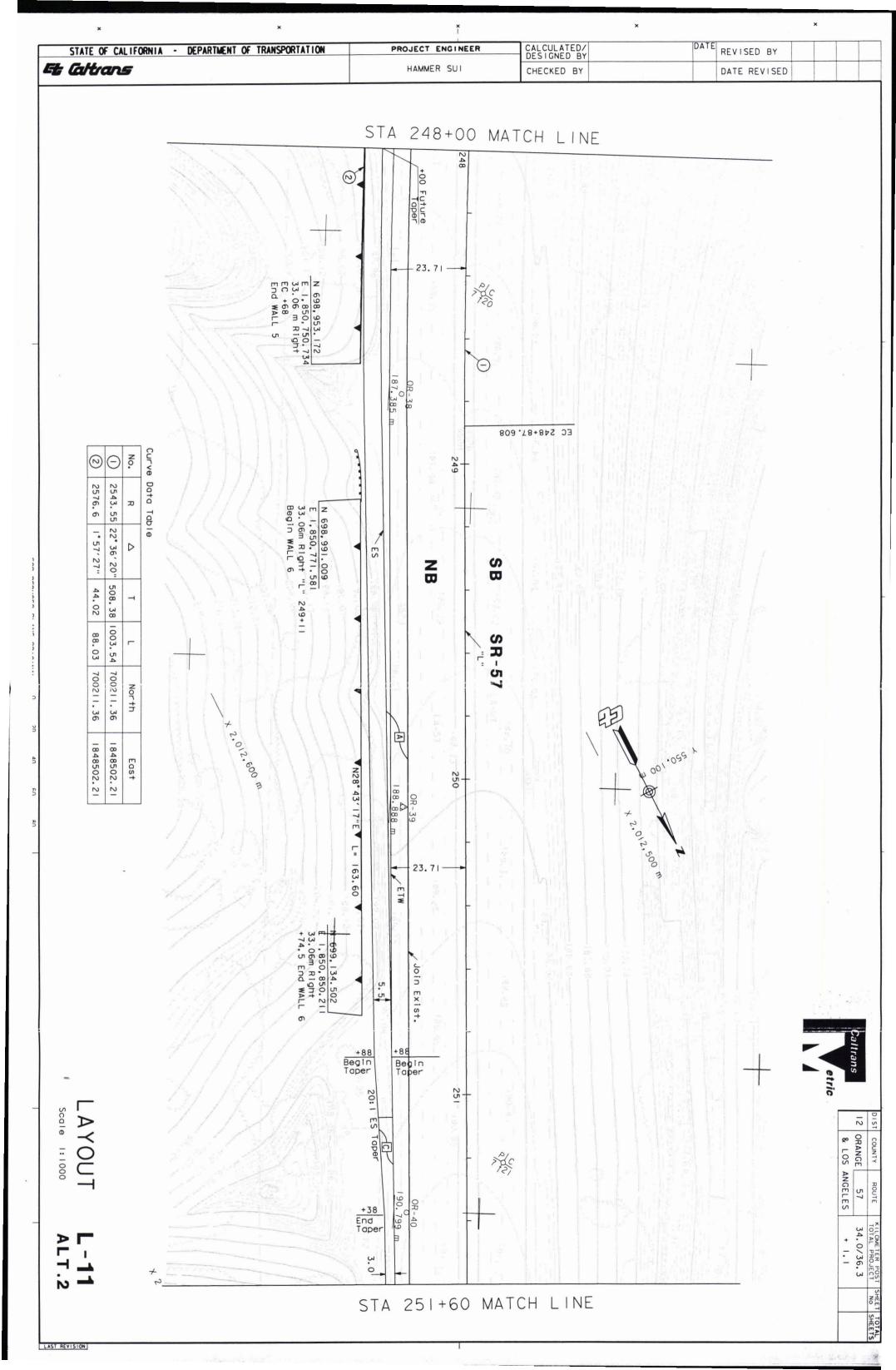


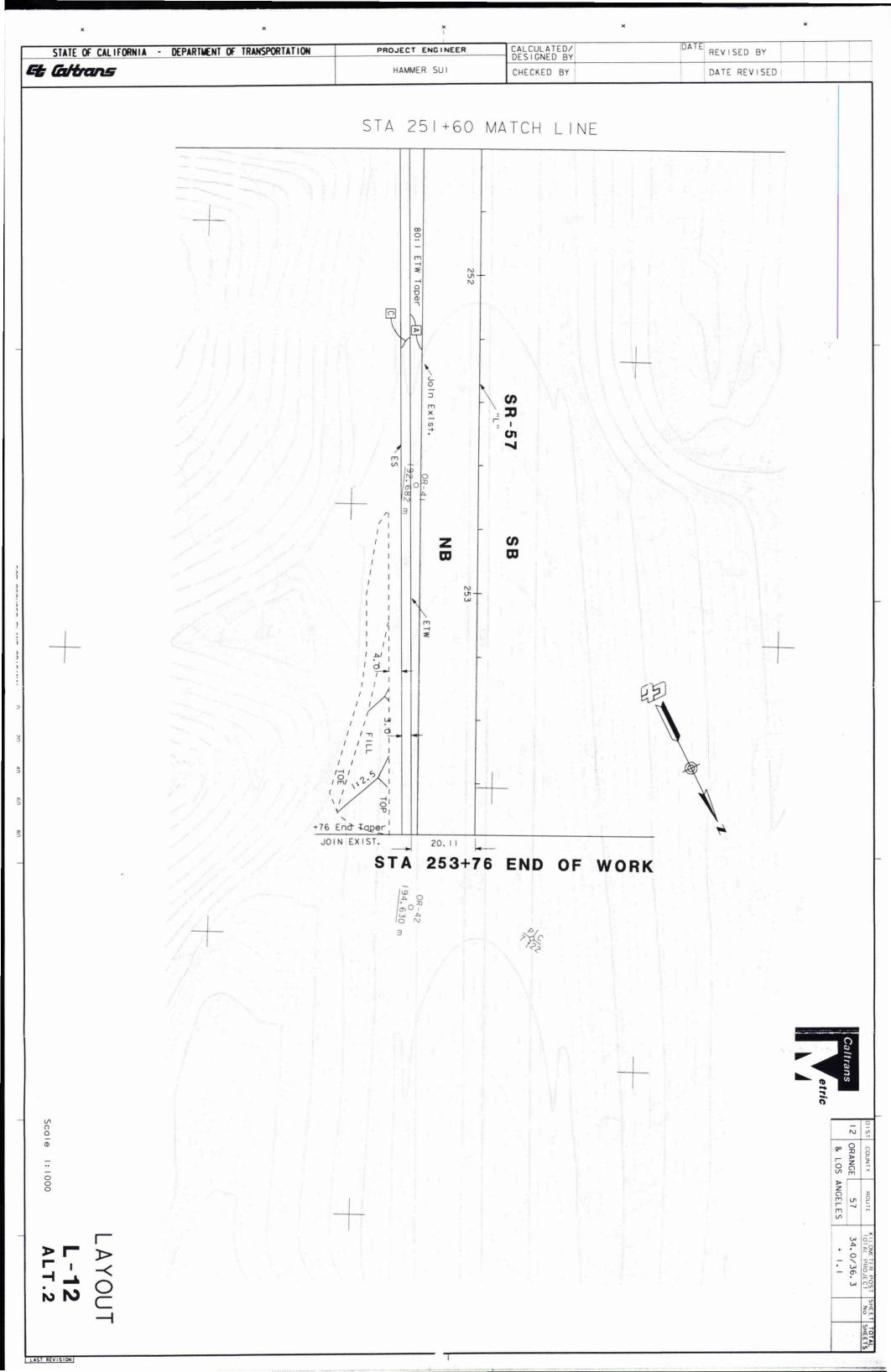


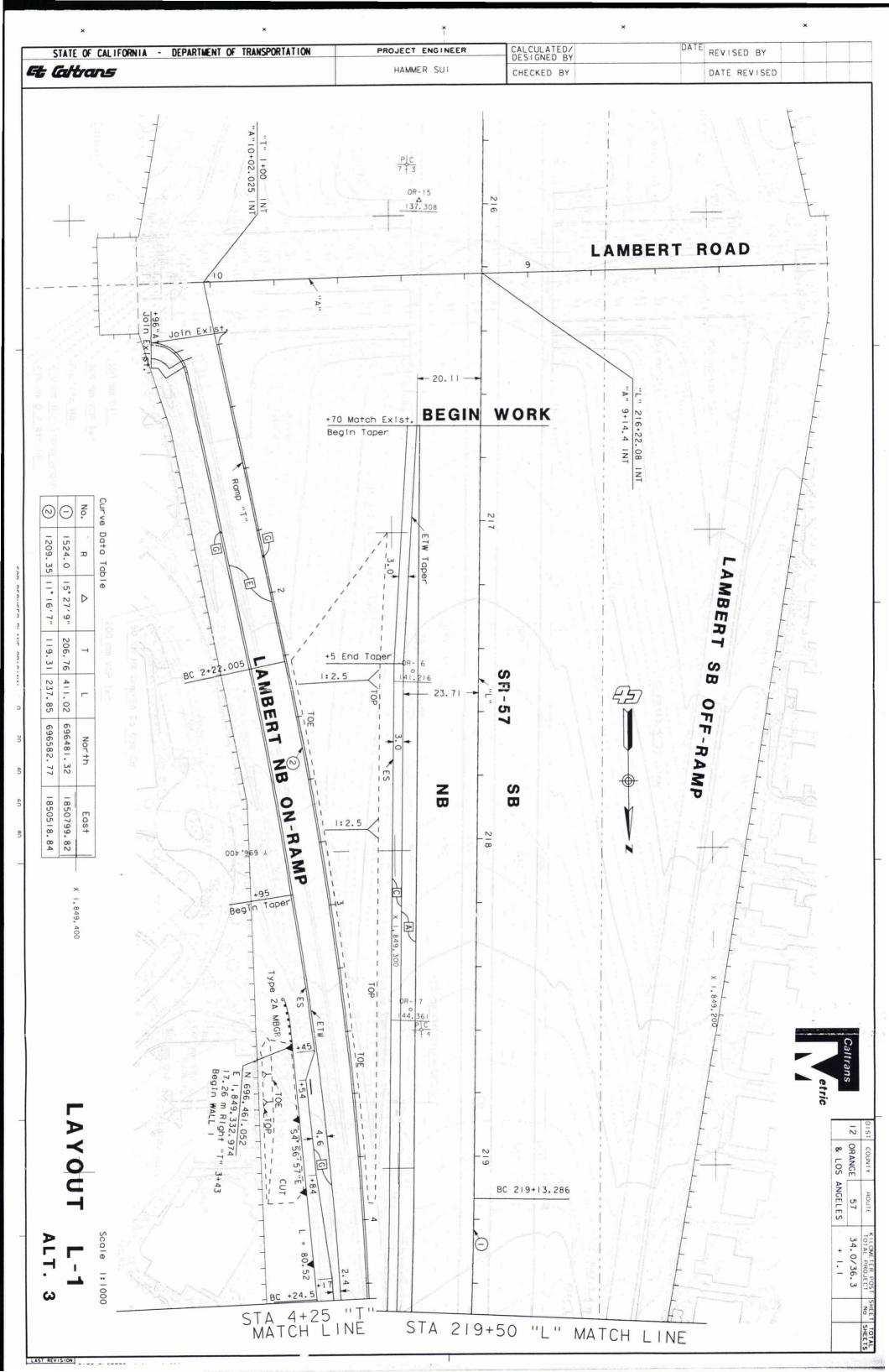


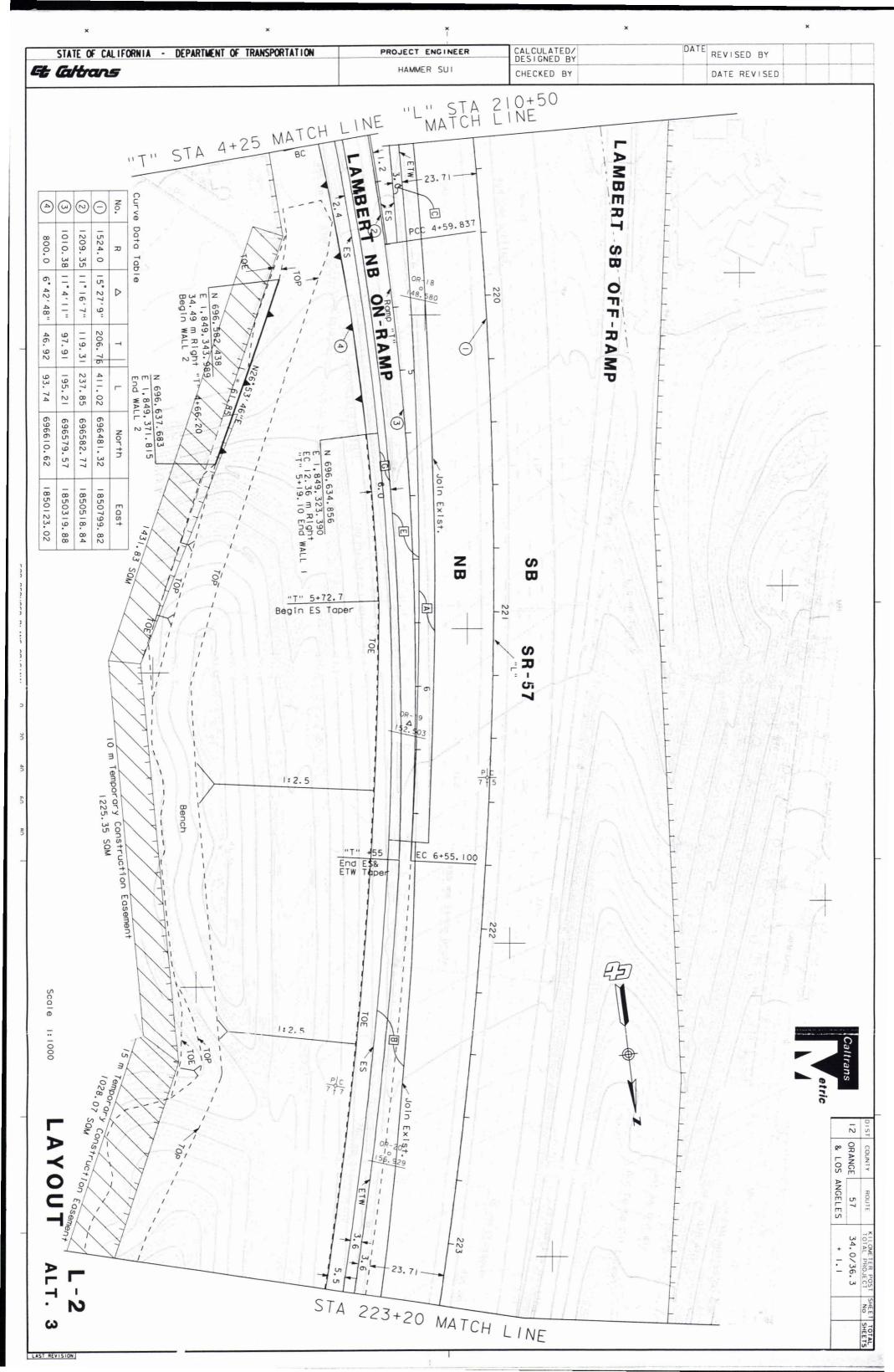


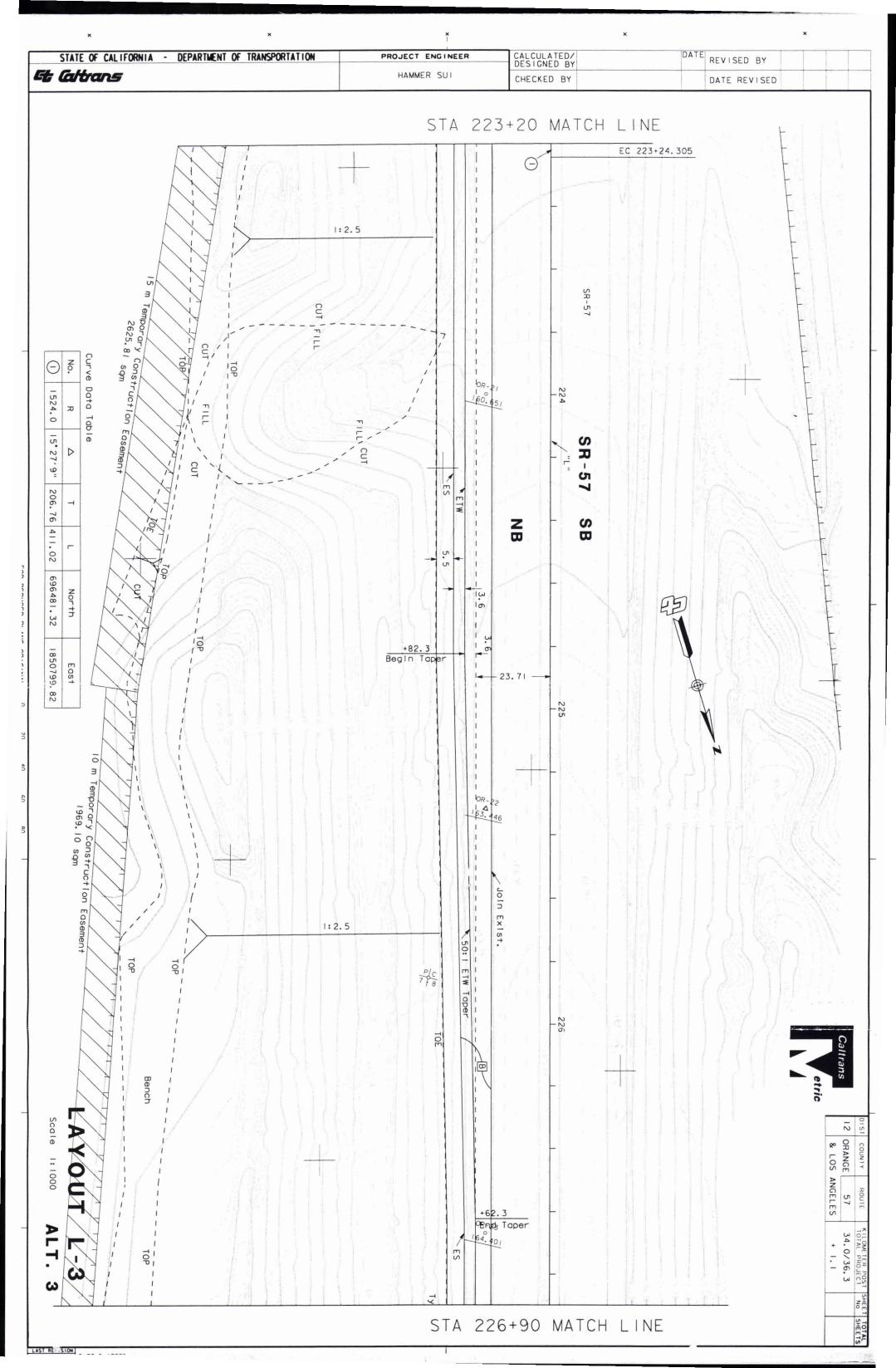


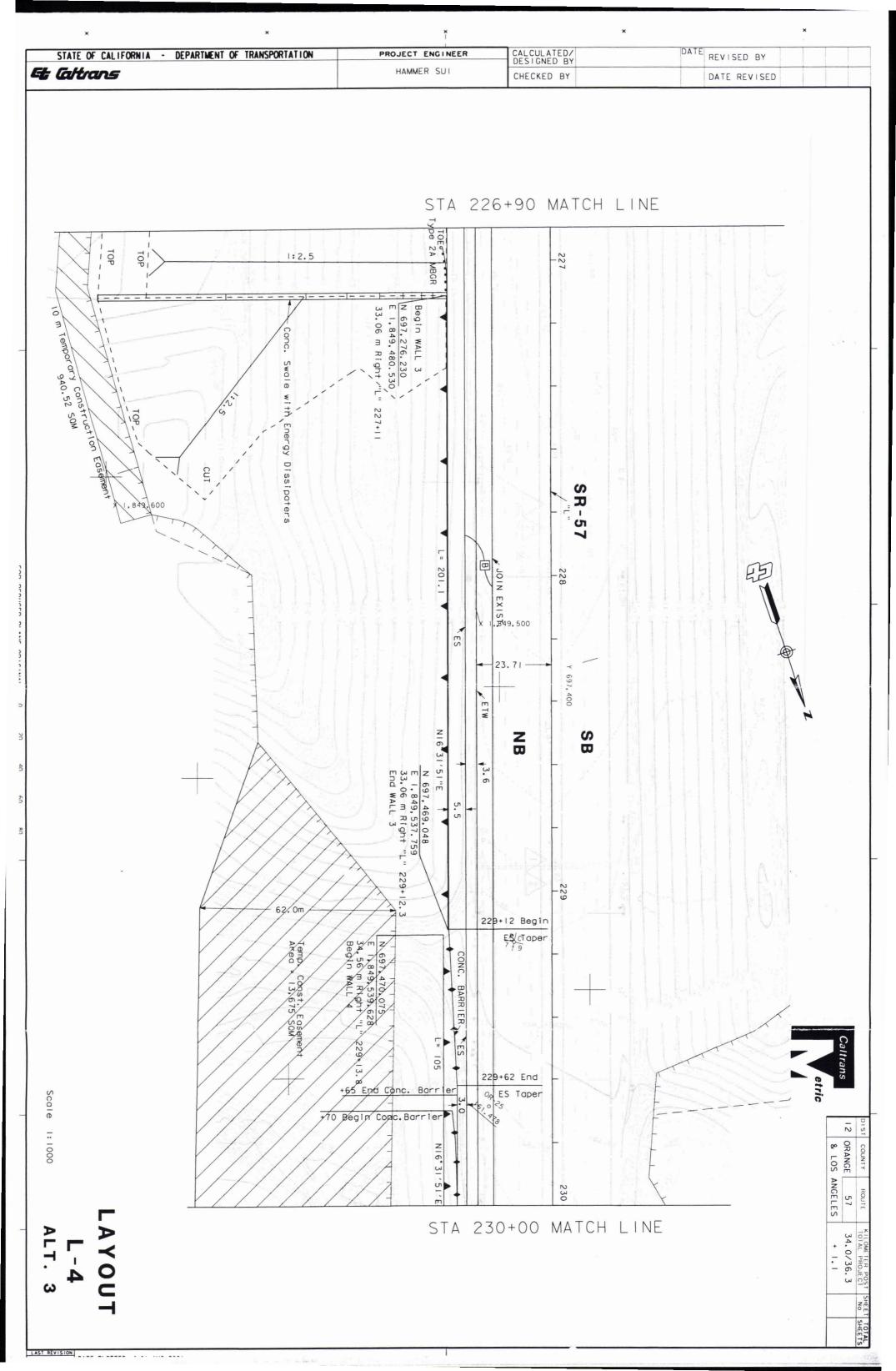


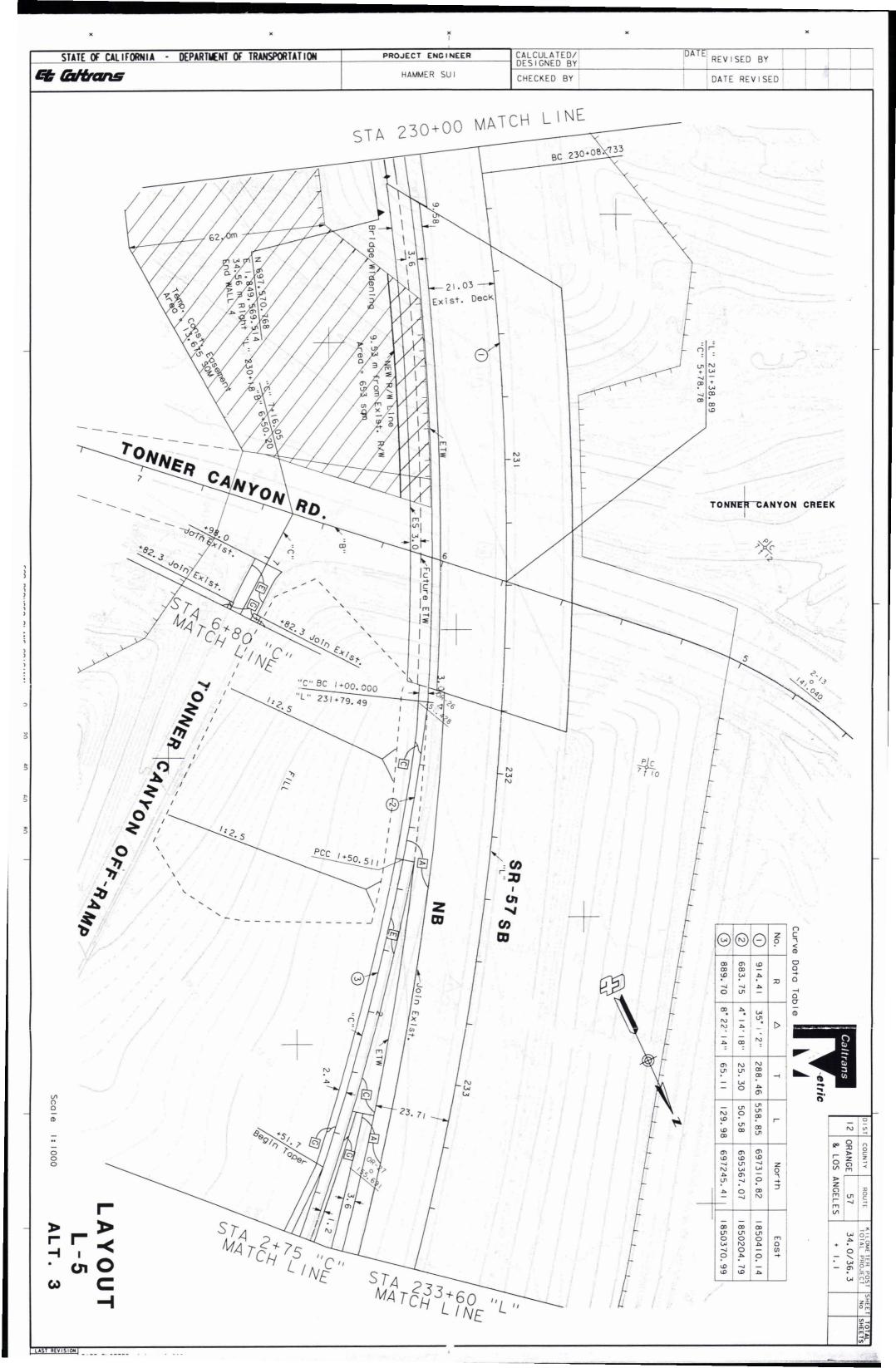


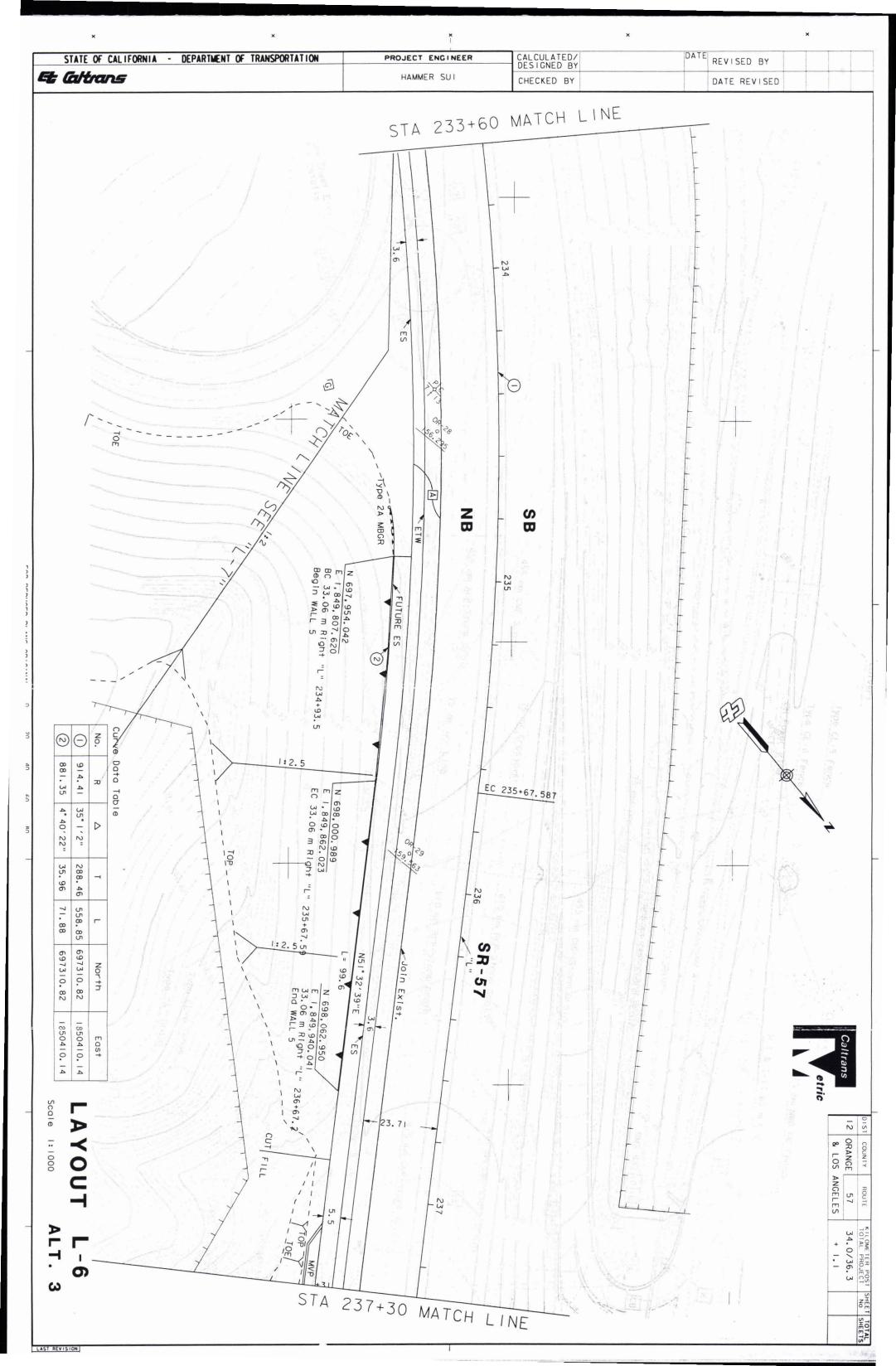


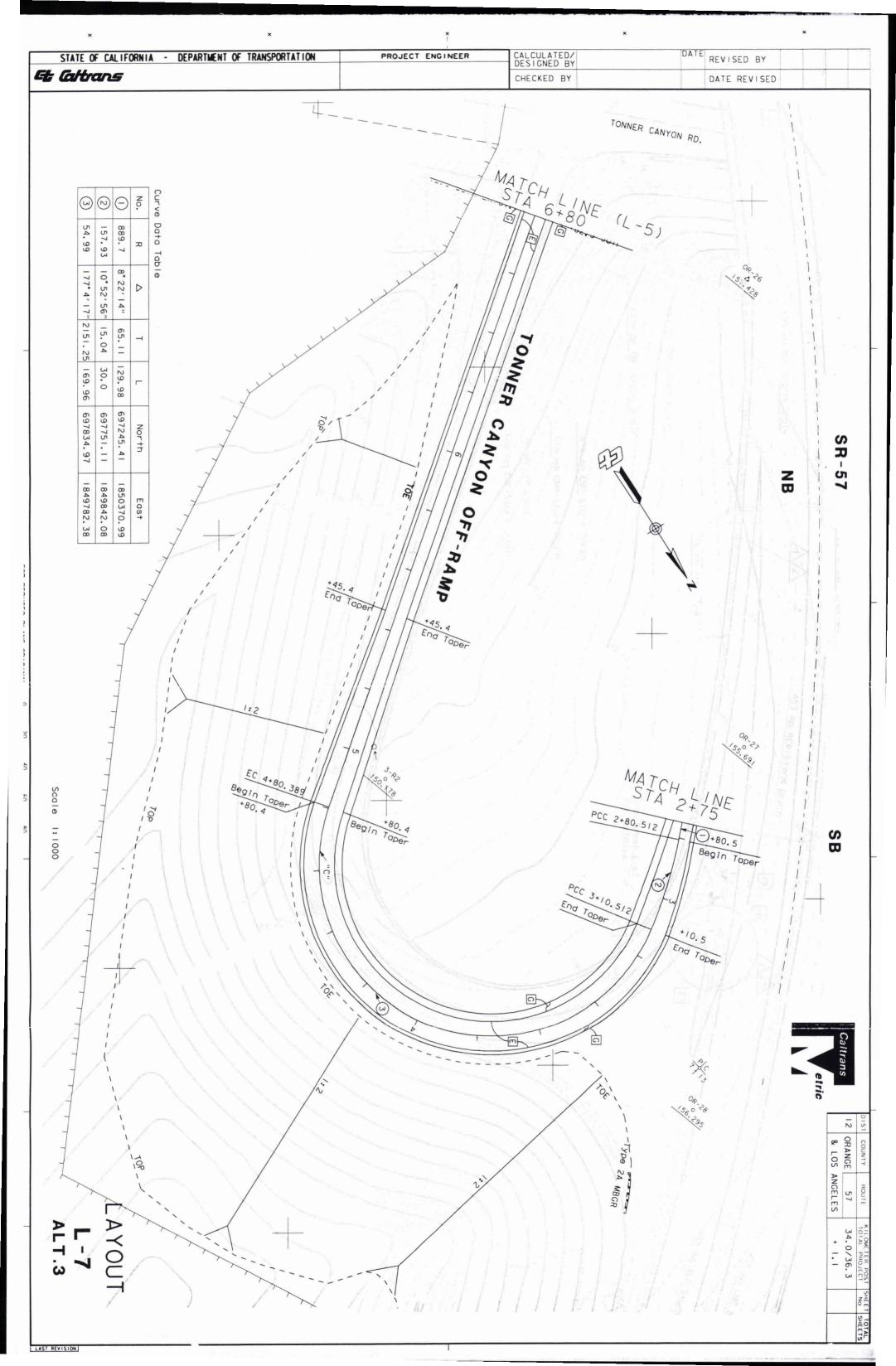


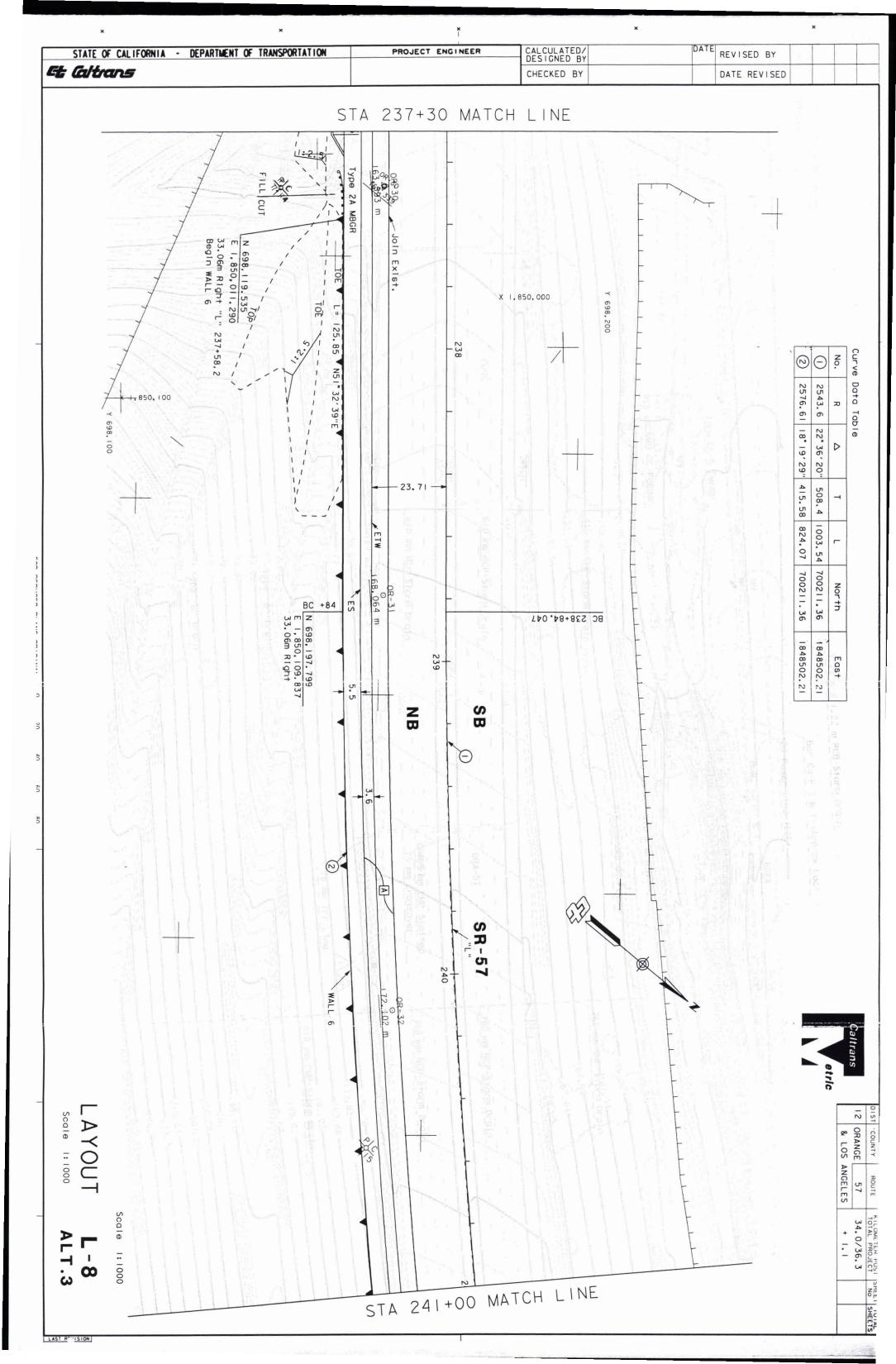


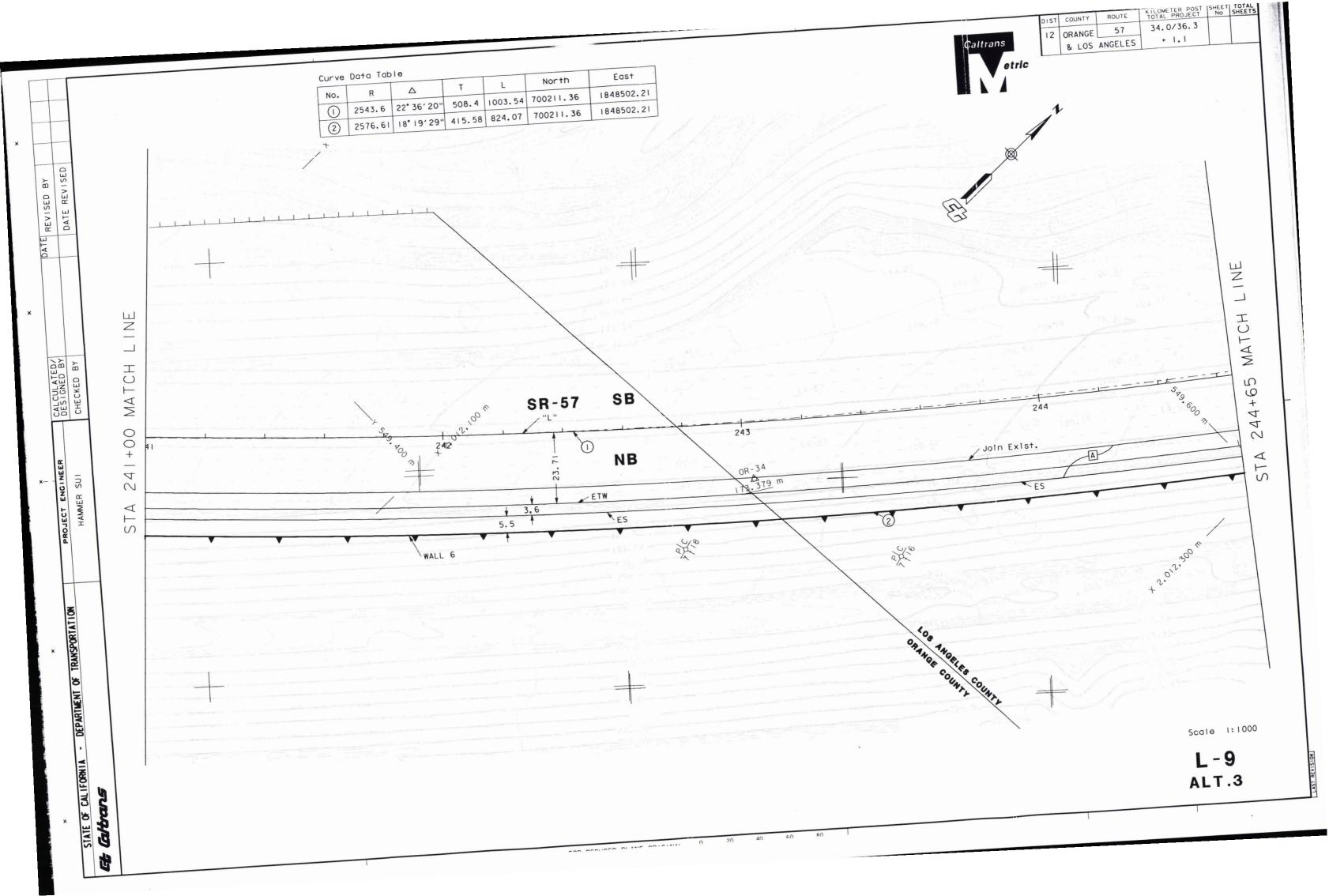


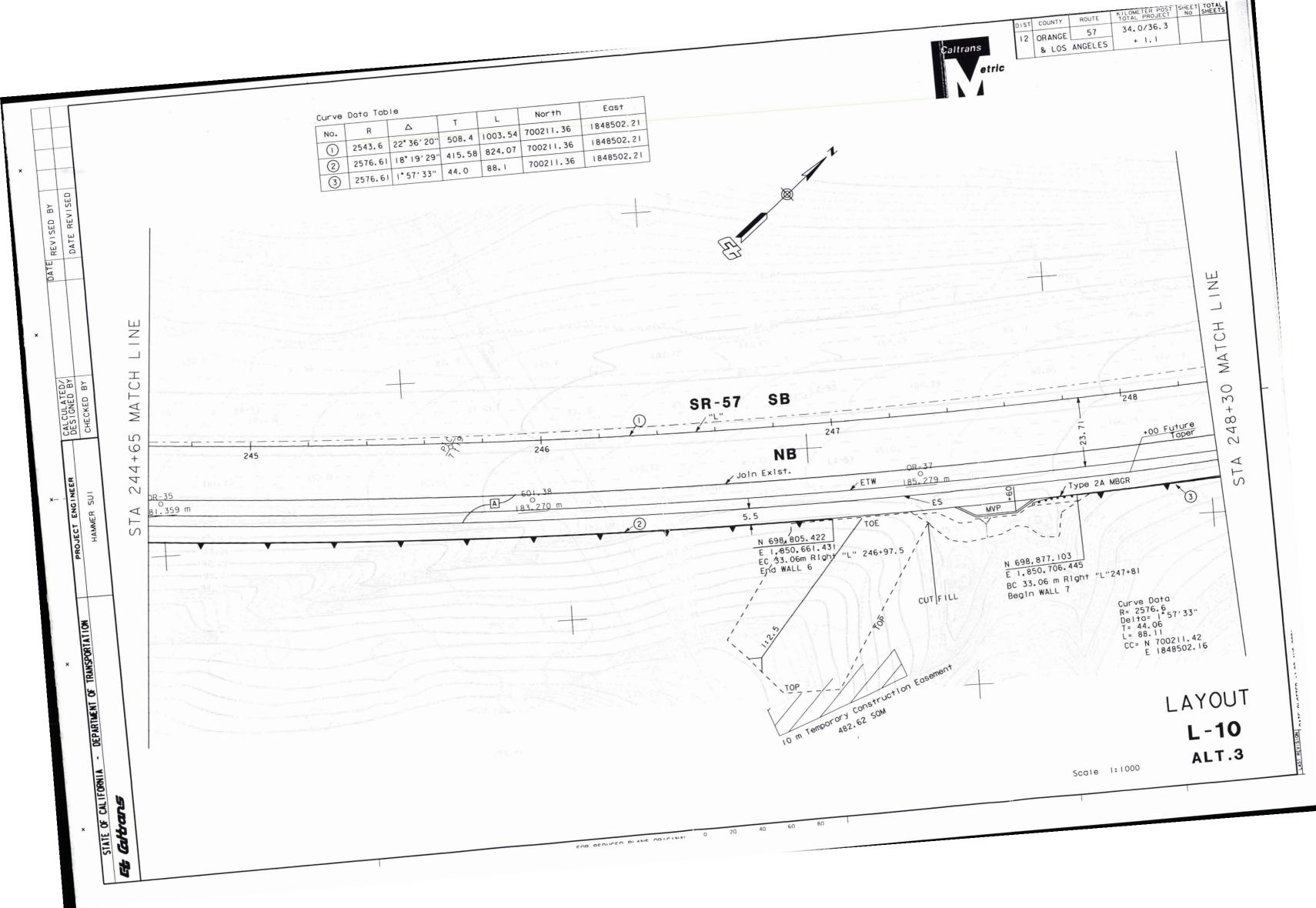












STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION PROJECT ENGINEER

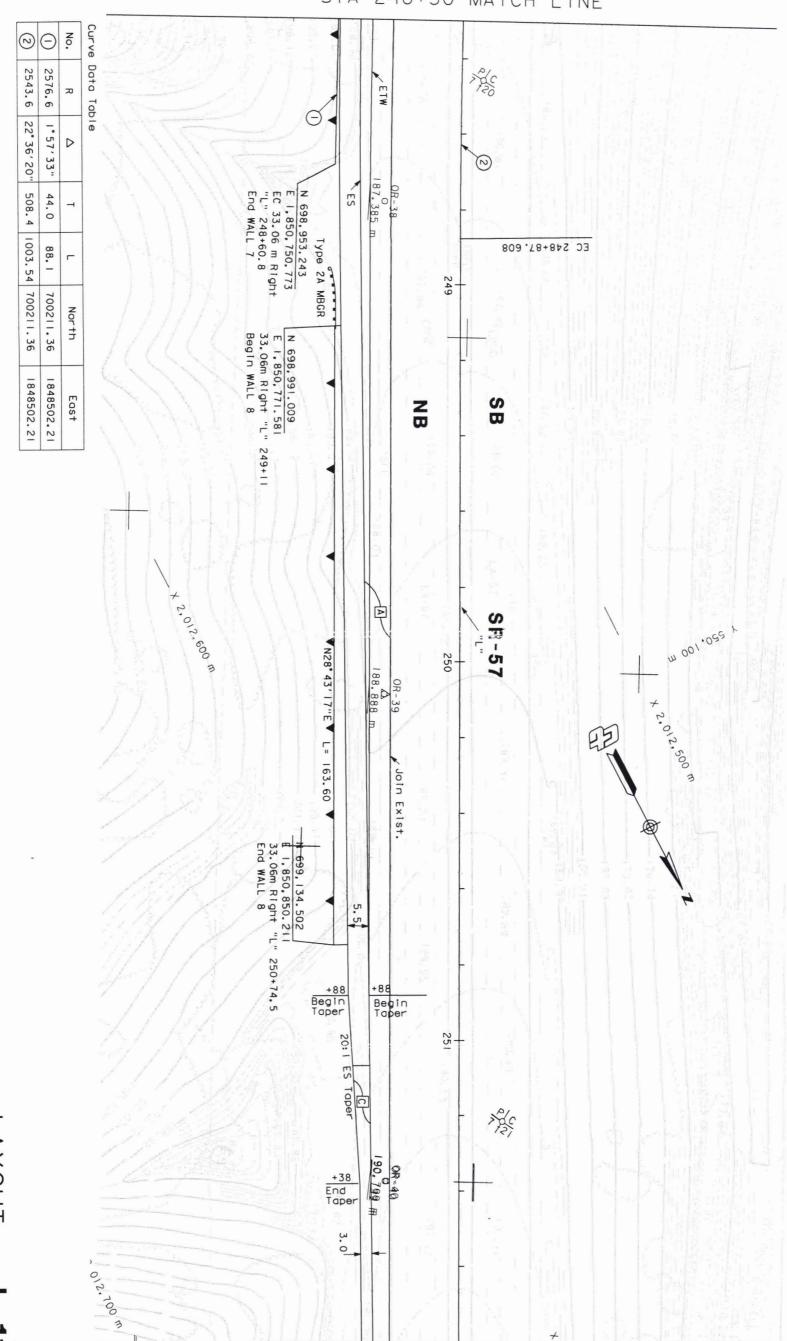
CALCULATED/
DESIGNED BY

CHECKED BY

DATE REVISED BY

DATE REVISED

STA 248+30 MATCH LINE



Caltrans

POIST COUNTY ROUTE TOTAL PROJECT

12 ORANGE 57 34.0/36.3

& LOS ANGELES + 1.1

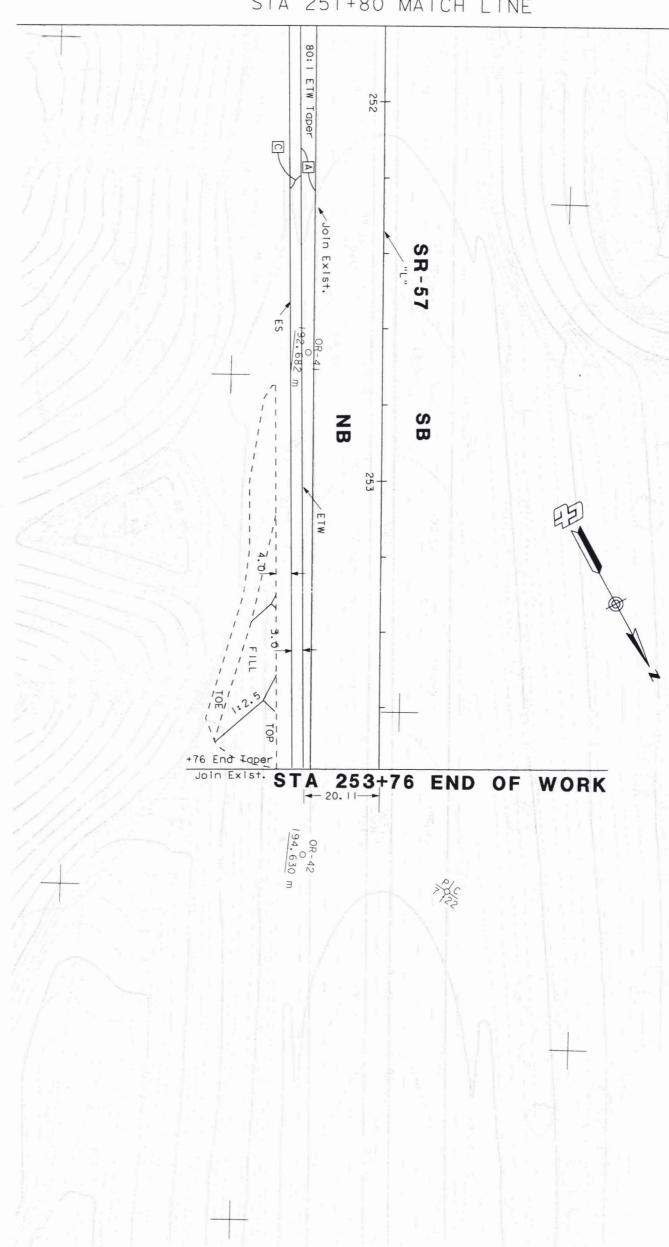
STA 251+80 MATCH LINE

LAYOUT

L-11 ALT.3

DATE REVISED BY STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION CALCULATED/ DESIGNED BY PROJECT ENGINEER Gt Caltrans CHECKED BY DATE REVISED

STA 251+80 MATCH LINE

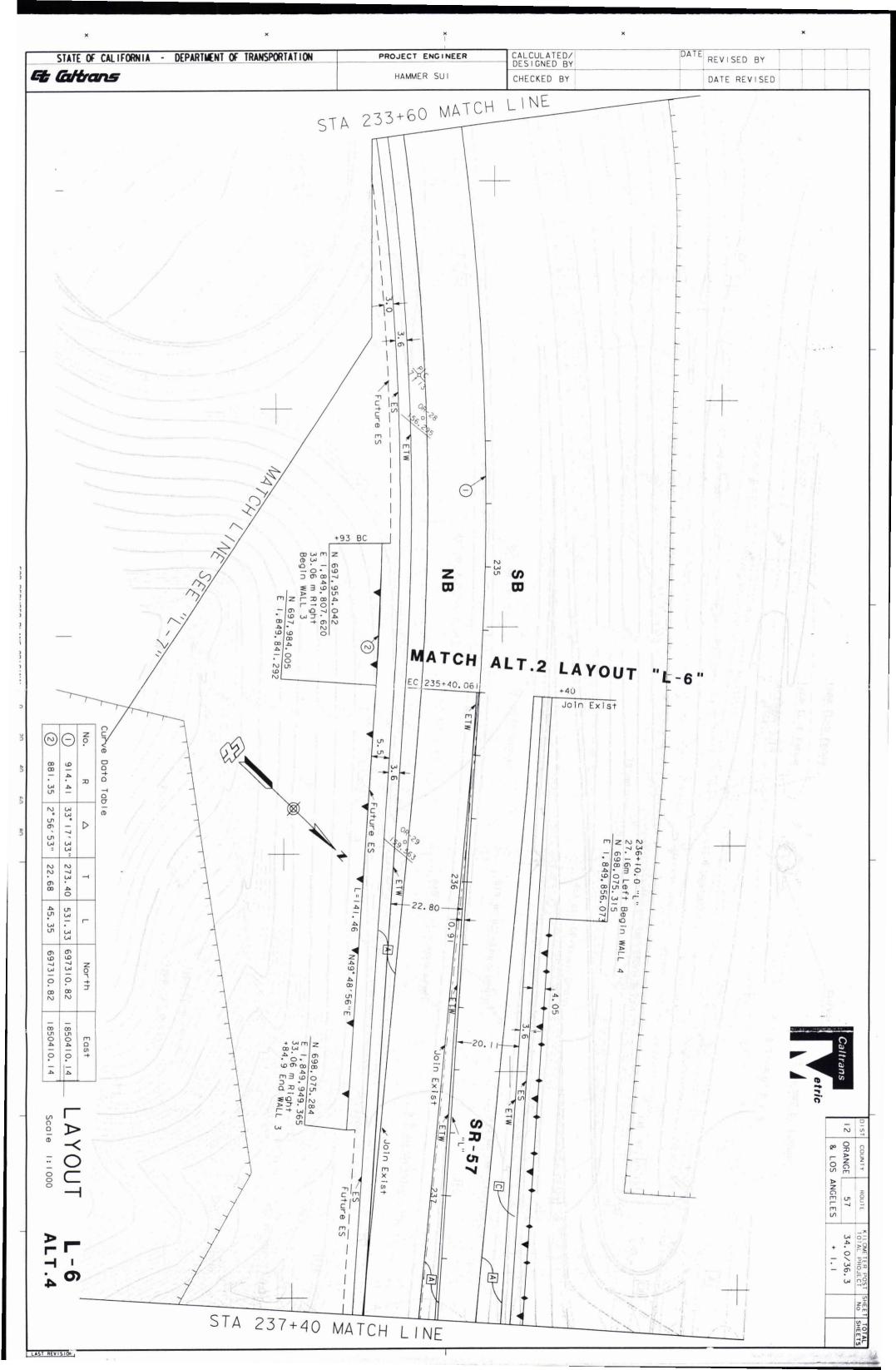


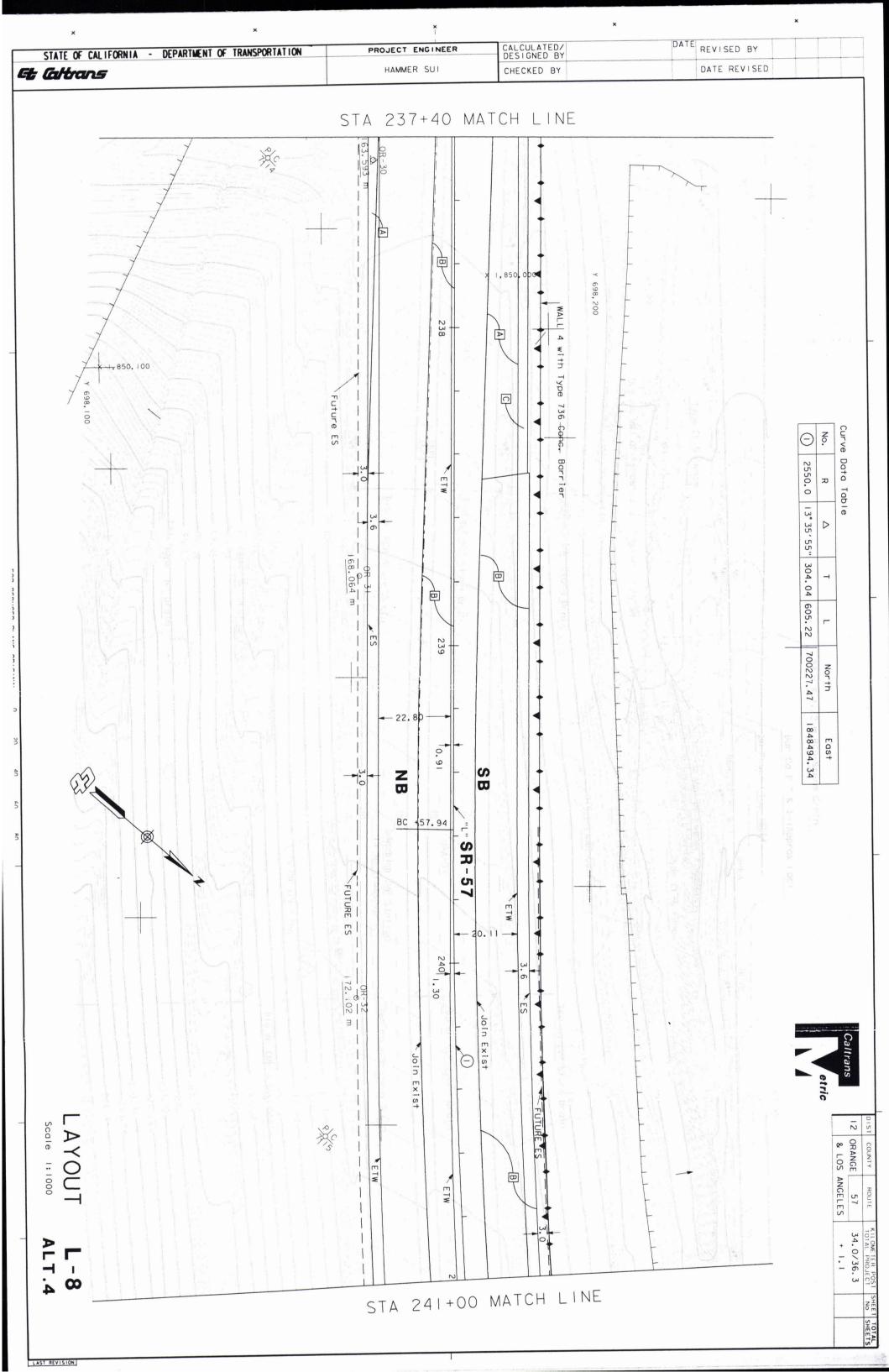
12 ORANGE 57

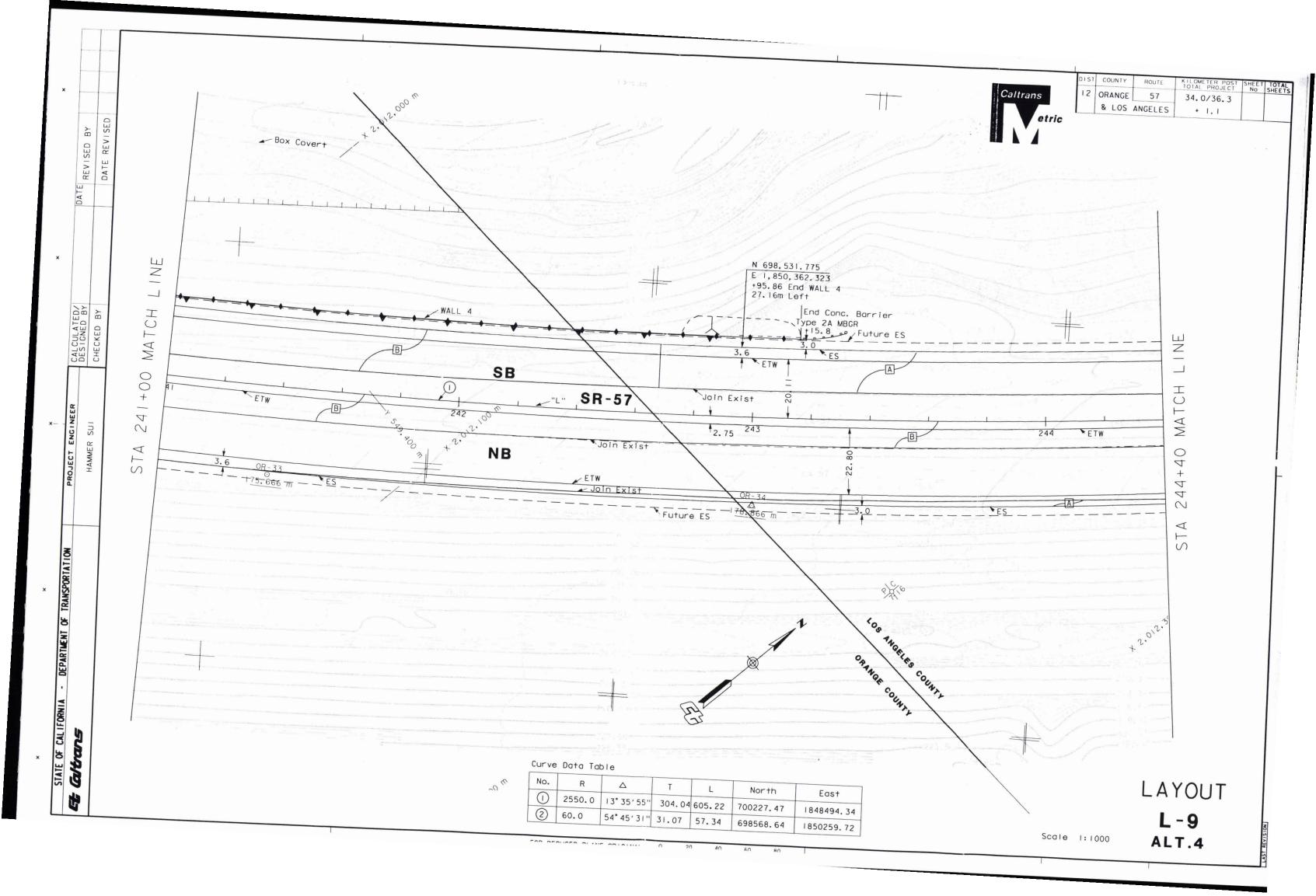
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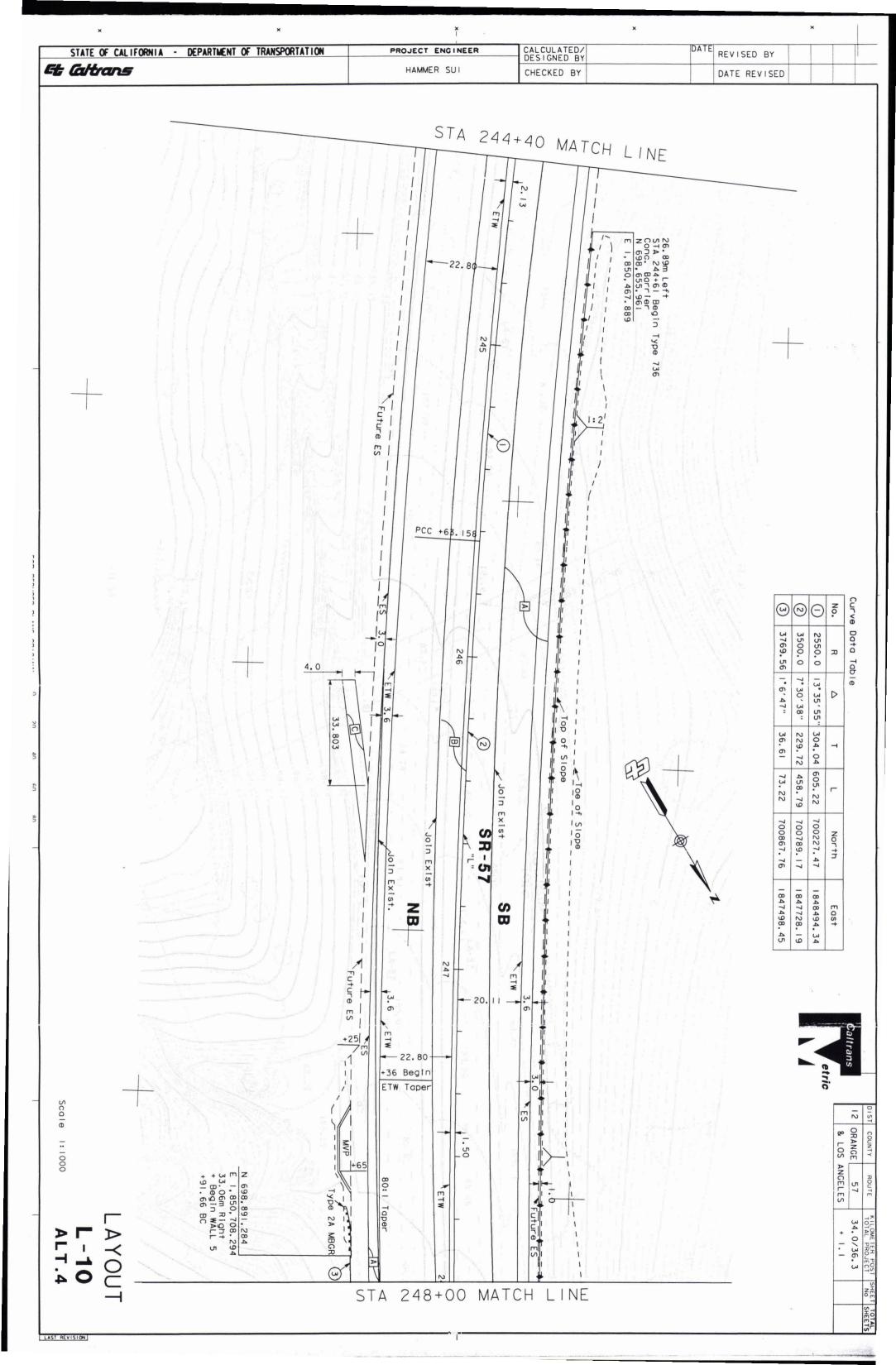
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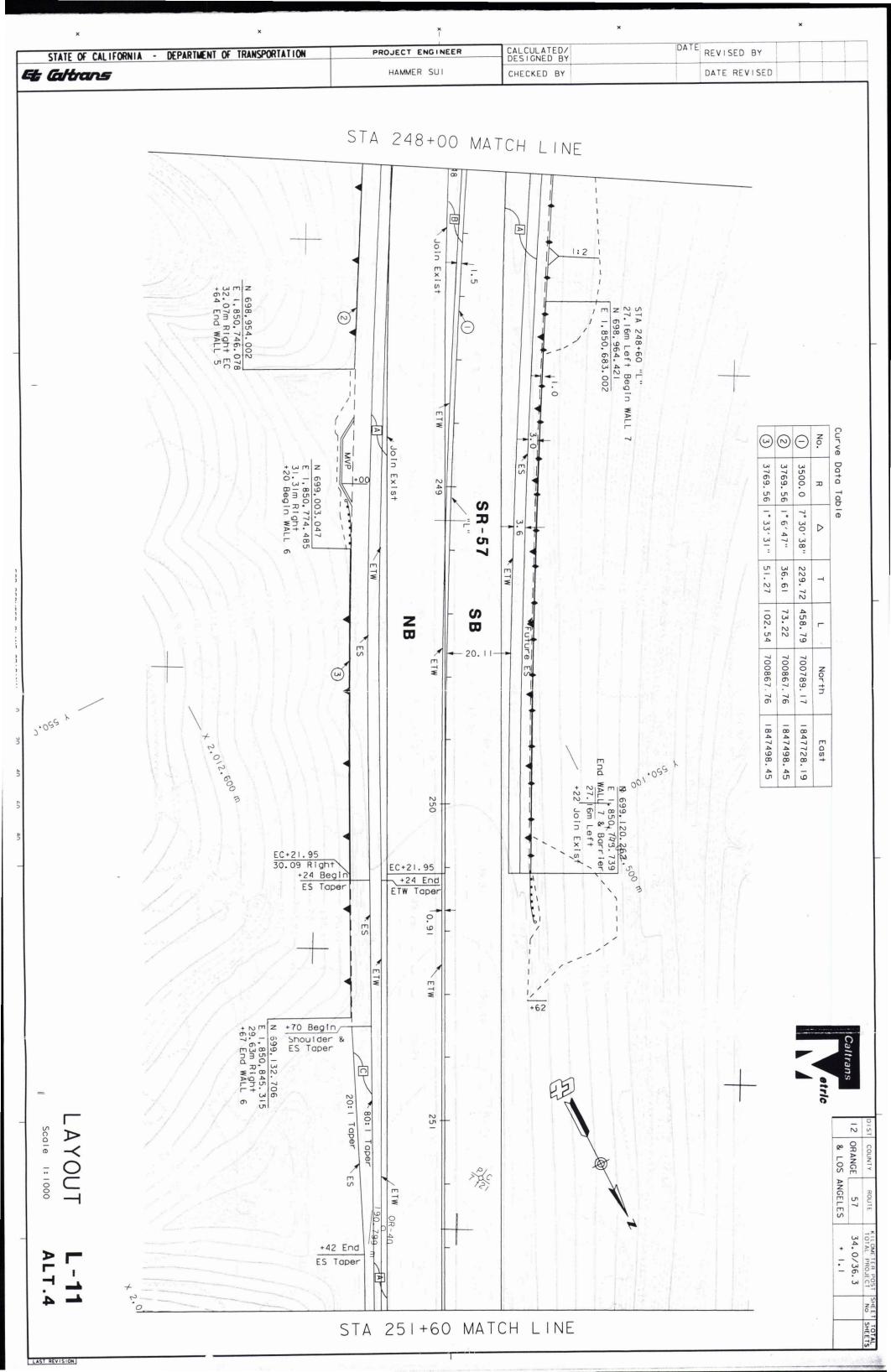
LAST REVISION

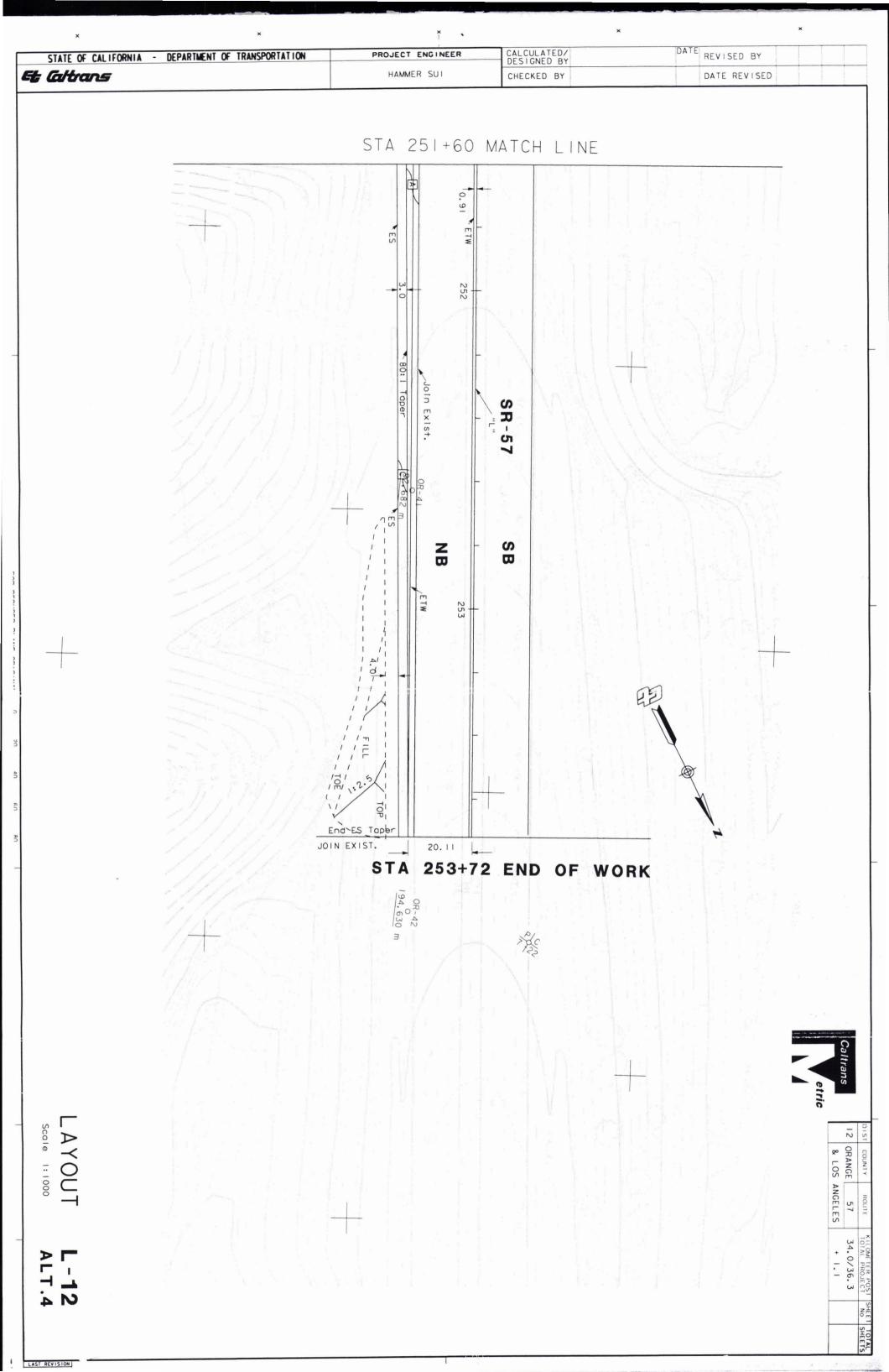








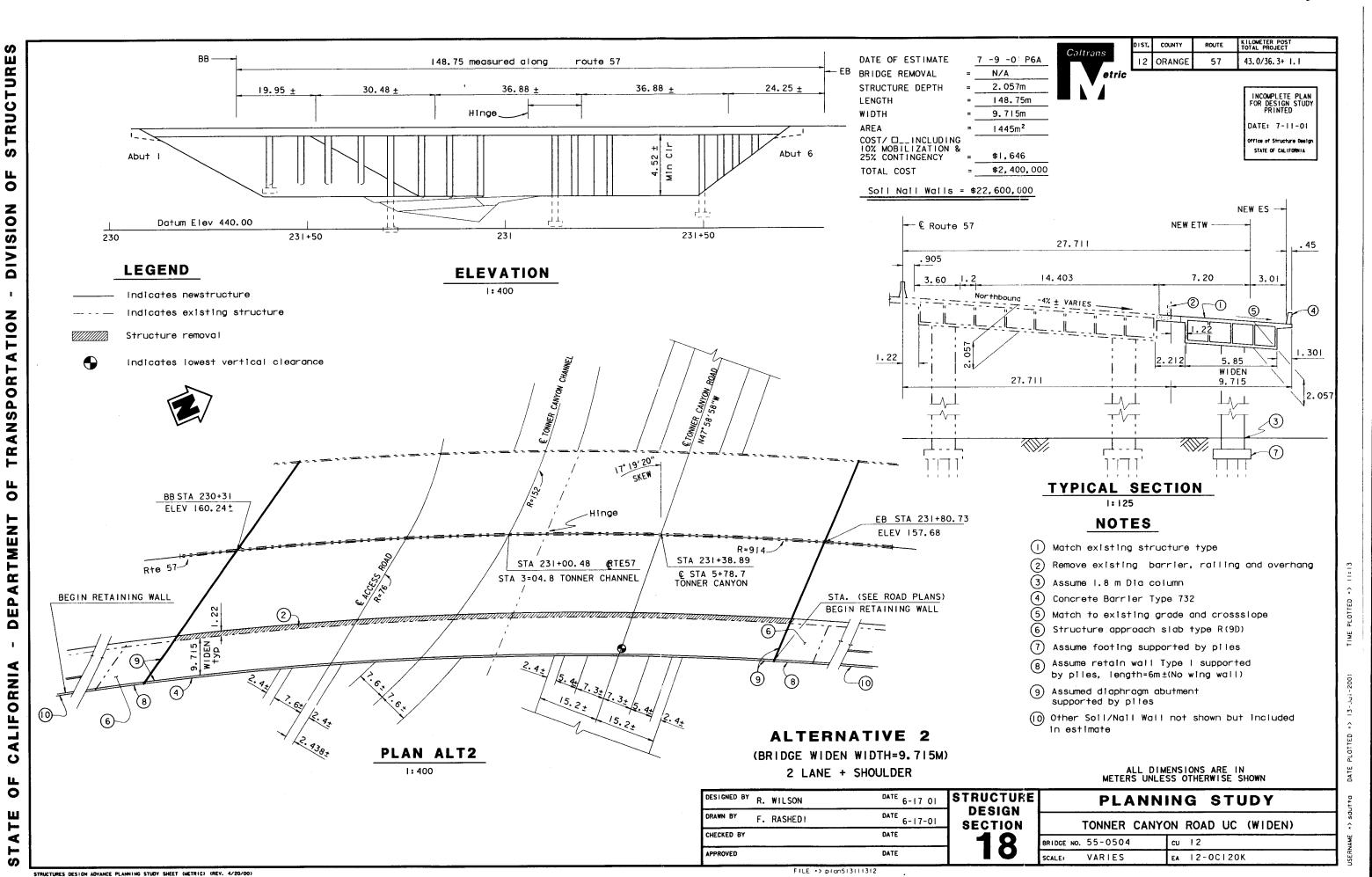


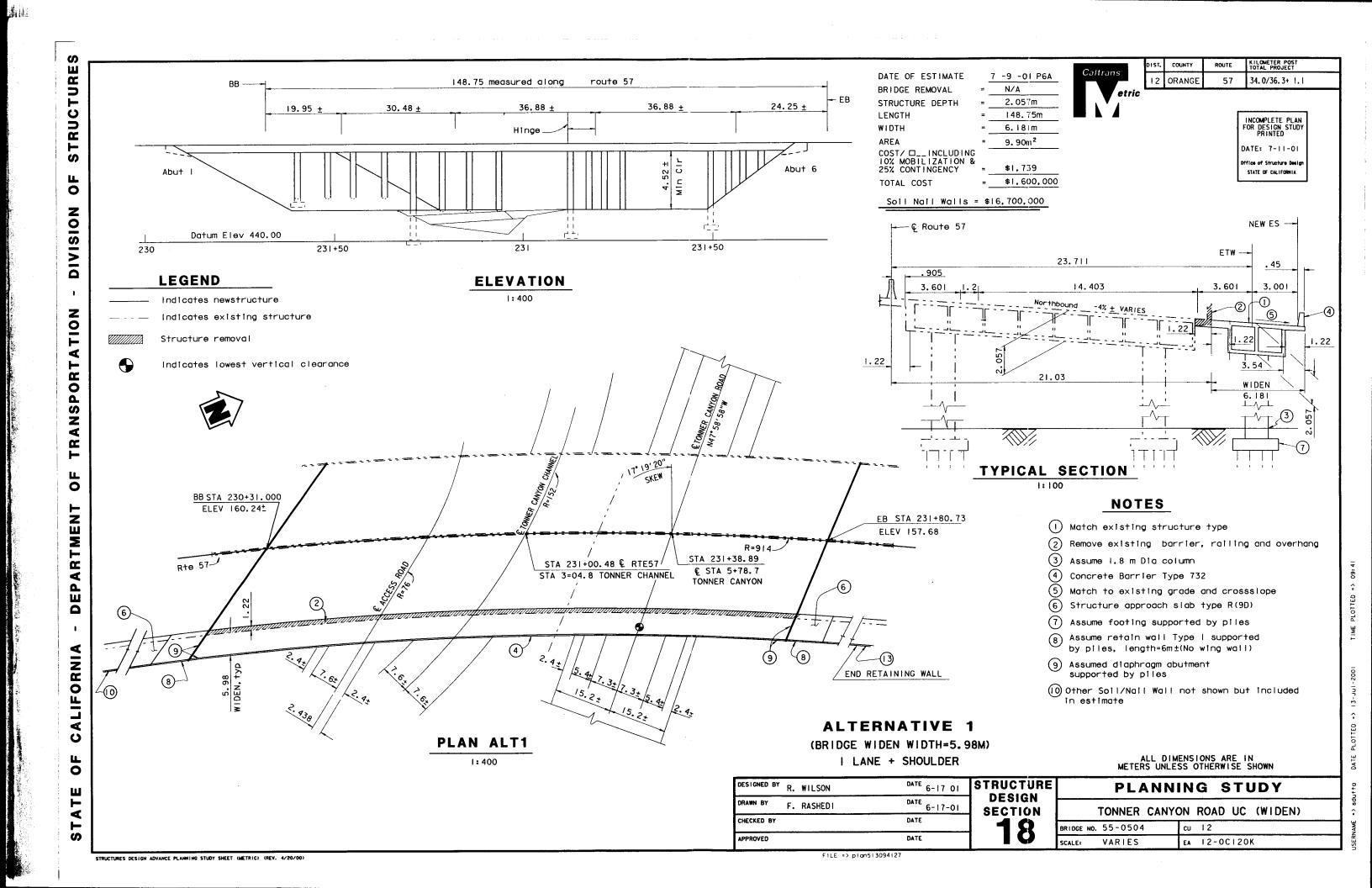


Attachment J

Structure Planning Study Plan Sheets

Planning Study of Tonner Canyon Road UC – Alternative 1 Planning Study of Tonner Canyon Road UC – Alternative 2 Planning Study of Soil Nail Wall Typical Cross Sections





Attachment K

Preliminary PSR Cost Estimate

Alternative 1 through 4

PRELIMINARY PSR COST ESTIMATE SUMMARY ALTERNATIVE 1

Dist-Co-Rt

12-ORA-57

KP(PM) 34.0/36.3 (21.13/22.56) +1.1 EA 0C120K Prgm. Code 20.50.025.714 PROJECT DESCRIPTION: Limits: ORA-57 from Lambert Road to 1.1 Km North of County Line Proposed Improvement (Scope) Construct climbing lane in the northbound direction Alternative: SUMMARY OF PROJECT COST ESTIMATE TOTAL ROADWAY ITEMS 14,374,000 TOTAL STRUCTURE ITEMS 18,300,000 SUBTOTAL CONSTRUCTION COSTS 32,674,000 TOTAL RIGHT OF WAY ITEMS 733,700 HAZARDOUS WAST MITIGATION COST 4,200,000 **ENVIRONMENTAL MITIGATION COST** \$ 2,016,000 TOTAL PROJECT CAPITAL OUTLAY COSTS 39,623,700 **USE** 39,624,000 Reviewed by Rhone No: Date: (949) 724-2929 Saied Hashemi District Program Advisor Reviewed by Hone No: (949) 724-2233 District Program Manager Approved by Phone No: (949) 440-4497 Project Manager Pija Ansari

ALTERNATIVE 1
ATTACHMENT K
Sheet 1 of 6

Dist-Co-Rt 12-ORA-57 KP(PM) 34.0/36.3 (21.13/22.56) +1.1 EA 0C120K Prgm. Code 20.50.025.714

I. ROADWAY ITEMS

I. KONDWAT TIEMS					
Section 1 Earthwork	Quantity	<u>Unit</u>	Unit Price	Item Cost	Section Cost
Roadway Excavation	100,900	M3	\$15	\$1,513,500	
Imported Borrow	7,000	M3	\$10	\$70,000	
Clearing & Grubbing	1	LS	\$200,000	\$200,000	
			Subtot	al Earthwork	\$1,783,500
Section 2 Structural Section*					
Portland Concrete Cement Pavement (PCCP)	5,504	M3	\$300	\$1,651,174	
Ashpalt Concrete (Type B)	9,029	TONNE	\$60	\$541,732	
Asphalt Treatment Permeable Base (ATPB)	3,016	M3	\$110	\$331,706	
Class 2 Aggregate Base (AB)	12,732	M3	\$50	\$636,617	
Class 2 Aggregate Subbase (AS)	7,635	M3	\$35	\$267,216	
				uctural Items	\$3,428,445
Section 3 Drainage					
Sand Backfill (Abandon Pipe)	467	M3	\$80	\$37,360	
Remove Inlet	23	ΕΛ	\$060	\$22,000	

Section 3	<u>Drainage</u>
-----------	-----------------

Sand Backfill (Abandon Pipe)	467	M3	\$80	\$37,360
Remove Inlet	23	EA	\$960	\$22,080
Concrete Channel Removal	90	M3	\$73	\$6,570
New Inlet	23	EA	\$2,700	\$62,100
New Manhole	4	EA	\$3,600	\$14,400
450 mm RCP	15	M	\$185	\$2,775
600 mm RCP	1,258	M	\$250	\$314,500
750 mm RCP	395	M	\$260	\$102,700
900 mm RCP	153	M	\$300	\$45,900
900 mm RCP (Channel Replacement)	125	M	\$300	\$37,500
1050 mm RCP (Extension)	6	M	\$350	\$2,100
1200 mm RCP	393	M	\$360	\$141,480

Total Drainage \$789,465

* Reference sketch showing typical pavement structural section elements of the roadway. Include (if available) T.I., R-Value and date tests were performed. **ALTERNATIVE 1** ATTACHMENT K Sheet 2 of 6

Dist-Co-Rt 12-ORA-57

KP(PM) 34.0/36.3 (21.13/22.56) +1.1

EA 0C120K

Prgm. Code 20.50.025.714

Section 4 Speciality Items	Quantity	<u>Unit</u>	Unit Price	Item Cost	Section Cost
Retaining Walls (H=1200 mm)		M	\$500		
Maint. Vehicle Pullouts at Var. Locations		EA	\$10,000	\$50,000	
Edge Drain	4,398	M	\$20	\$87,960	
Remove Concrete Barrier	900	M	\$30	\$27,000	
Concrete Barrier Type 60D	2,527	M	\$130	\$328,510	
Remove AC Dike	3,798	M	\$15	\$56,970	
AC Dike	2,659	M	\$15	\$39,885	
MBGR (Wood Post)	195	M	\$130	\$25,350	
Remove AC Pavement	18,295	M^2	\$20	\$365,900	
Salvage MBGR		M	\$25		
Landscape	1	LS	\$75,000	\$75,000	
Erosion Control	1	LS	\$54,000	\$54,000	
Slope Protection		LS	-		
R/E office		LS			
Water Pollution Control	1	LS	\$550,000	\$550,000	
Progress Schedule		LS		· · · · · · · · · · · · · · · · · · ·	
			Total Sp	ecialty Items	\$1,660,575
Section 5 Traffic Items			•		
Relocate Call Box	6	EA	\$1,000	\$6,000	
Relocate Lighting Standard	20	EA	\$2,500	\$50,000	
Temporary Lighting	1	LS	\$20,000	\$20,000	
Temporary Striping	1	LS	\$20,000	\$20,000	
Pavement Delineation	1	LS	\$22,100	\$22,100	
Overhead Sign Structures	1	EA	\$6,500	\$6,500	
Roadside Signs	1	LS	\$5,500	\$5,500	
Traffic Control Systems	1	LS	\$40,000	\$40,000	
Fiber Optic System Relocation	1	LS	\$500,000	\$500,000	
CCTV Relocation	1	LS	\$30,000	\$30,000	
Construction Signs	1	LS	\$6,000	\$6,000	
Temporary Crash Cushion	55	EA	\$350	\$19,250	
Temporary K-Rail	5,830	M	\$45	\$262,350	
Traffic Management Plan (TMP)					
Public Awareness Campaign	1	LS	\$20,000	\$20,000	
Traffic Management Team	1	LS	\$24,000	\$24,000	
Portable CMS	4	EA	\$15,000	\$60,000	
CHP / COZEEP (9 Hours, 200 nights)	1	LS	\$198,000	\$198,000	
FSP / Tow Truck Service	1	LS	\$60,000	\$60,000	

Total Traffic Items \$1,349,700

SUBTOTAL SECTIONS 1-5 \$7,776,146

ALTERNATIVE 1 ATTACHMENT K

Sheet 3 of 6

Dist-Co-Rt 12-ORA-57 KP(PM) 34.0/36.3 (21.13/22.56) +1.1 EA 0C120K Prgm. Code 20.50.025.714

Section 6 Minor Items		\$9,011,685 (Subtotal Section	X s 1-5)	10% (5% - 10%)	<u>Item Cost</u> \$901,169	Section Cost
Section 7 Roadway Mobil	lization			<u>Tota</u>	al Minor Items	\$901,169
, i		\$9,912,854 (Subtotal Section	X s 1-6)	10% 10%	\$991,285	
				Total Roadway	y Mobilization	\$991,285
Section 8 Roadway Addit Supplemental Work	ions					
		\$9,912,854 (Subtotal Section	X s 1-6)	10% (5% - 10%)	\$991,285	
Contingencies		\$9,912,854	X	25%	\$2 478 212	
		(Subtotal Sections		(**%)*	\$2,478,213 way Additions	
				TOTAL ROAD	WAY ITEMS	\$3,469,499
					f sections 1-8) _	\$14,373,638
					USE_	\$14,374,000
Estimate Prepared By _	Hammer Sui		Phone # ((949) 724-2412	Date _	8/21/01
Estimate Checked By	Gary Slater		Phone # (949) 724-7685	Date _	8/21/01

*Use appropriate Percentage per Chapter 3-50 of Project Development Procedures Manual.

ALTERNATIVE 1 ATTACHMENT K Sheet 4 of 6

Dist-Co-Rt 12-ORA-57 KP(PM) 34.0/36.3 (21.13/22.56) +1.1 EA 0C120K Prgm. Code 20.50.025.714

STRUCTURES ITEMS			STRUCTU	RE		
		No. 1	No. 2	<u>No. 3</u>	No. 4	
Bridge Name Structure Type Width M (out to out) Lengths M. Total Area Sq. M. Footing Type (Pile/Spread) Cost Per square M (include 10% mobilization		anyon Road UC lace Box Girder 6.18 148.75 919.40				
and 20% contingency) Total Cost for Structure		\$1,739	-			
Soil Nail Walls		\$16,700,000				
			SUB	TOTAL STRUC	CTURES ITEMS	\$18,300,000
Railroad Related Costs		-		SURTOTAL RA	 ILROAD ITEMS	
					CTURES ITEMS	\$18,300,000
					USE	\$18,300,000
COMMENTS						
Estimate Prepared By	Elias Kurani		Phone #		Date	7/13/01
(If appropriate, attach additional	Print Name al pages and back	up)			ATTA	NATIVE 1 CHMENT K Sheet 5 of 6

Dist-Co-Rt 12-ORA-57 KP(PM) 34.0/36.3 (21.13/22.56) +1.1 EA 0C120K Prgm. Code 20.50.025.714

III. RIGHT OF WAY			CURRENT VALUE		
A. Acquisition, including excess and damages to remainder(s	ss lands): (Temp. Const. Faser	ments) -	\$530,000		
B. Utility Relocation (State sha C. RAP	re)	-	\$200,000		
D. Clearance/Demolition		-			
E. Title and Escrow FeesE. Developmental Fees (Env. I	Permit etc.)	_	\$1,200 \$2,500		
	,	TOTAL RIGHT OF		\$733,700	
			USE:	\$733,700	
	Anticipated Date of Rig Date to which Values a	ht of Way Certification re Escalated)		07/04	
*This dollar amoun	ch Cost Estimate for We				
COMMENTS:					
	(arry Pantoja (Print Name)	Phone #		Date	06/29/01
					NATIVE 1 CHMENT K
(If appropriate, attach additional	pages and backup)			S	Sheet 6 of 6

PRELIMINARY PSR COST ESTIMATE SUMMARY ALTERNATIVE 2

Dist-Co-Rt 12-ORA-57

			KP(PM)	34.0/36.3	3 (21.13/	22.56) +1.1			
		EA 0C120K							
		Prgm. Code 20.50.025.714							
PROJECT DESCRIPT	ION:								
Limits: ORA-57 from	n Lambert Road to	o 1.1 Km North of Cou	nty Line						
-									
Proposed Improvement	(Scope)	Construct climbing la	ne in the northbound	d direction	1				
Alternatives:		2							
	SIIMM			TIP.					
	SUMM	ARY OF PROJECT	COST ESTIMA	TE					
	TOTAL ROAL	DWAY ITEMS			\$	17,810,000			
	TOTAL STRU	CTURE ITEMS			\$	25,000,000			
	SUBTO	TAL CONSTRUCTION	COSTS		\$	42,810,000			
	TOTAL RIGH	T OF WAY ITEMS			\$	986,000			
	HAZARDOUS	WAST MITIGATION COST			\$	4,200,000			
	ENVIRONME	NTAL MITIGATION CO	OST		\$	2,120,000			
	TOTAL	PROJECT CAPITAL O	UTLAY COSTS		\$	50,116,000			
			<u>USE</u>		\$	50,116,000			
Reviewed by District Program Advisor	Educada for Saied H	Phone No	0: (949) 724-2929	Date:	8)	122/2001			
Reviewed by District Program Manager	George	Hone No Kopjak	O: (949) 724-2233	Date:	8	127/01			
Approved by Project Manager	Pija A	Phone No	D: (949) 440-4497	Date:	8/2	27/61			

ALTERNATIVE 2 ATTACHMENT K Sheet 1 of 6

Dist-Co-Rt 12-ORA-57 KP(PM) 34.0/36.3 (21.13/22.56) +1.1 EA 0C120K Prgm. Code 20.50.025.714

Total Structural Items

\$3,612,766

I. ROADWAY ITEMS

Section 1 Earthwork	Quantity	<u>Unit</u>	Unit Price	Item Cost	Section Cost
Roadway Excavation	230,617	M3	\$15	\$3,459,255	
Imported Borrow	7,035	M3	\$10	\$70,350	
Clearing & Grubbing	1	LS	\$200,000	\$200,000	
Section 2 Structural Section*			Subtota	al Earthwork	\$3,729,605
Portland Concrete Cement Pavement (PCCP)	7,034	M3	\$300	\$2,110,282	
Ashpalt Concrete (Type B)	5,869	TONNE	\$60	\$352,145	
Asphalt Treatment Permeable Base (ATPB)	3,878	M3	\$110	\$426,601	
Class 2 Aggregate Base (AB)	7,380	M3	\$50	\$369,003	
Class 2 Aggregate Subbase (AS)	10,135	M3	\$35	\$354 736	

Section 3 Drainage

Sand Backfill (Abandon Pipe)	467	M3	\$80	\$37,360
Remove Inlet	23	EA	\$960	\$22,080
Concrete Channel Removal	90	M3	\$73	\$6,570
New Inlet	23	EA	\$2,700	\$62,100
New Manhole	4	EA	\$3,600	\$14,400
450 mm RCP	15	M	\$185	\$2,775
600 mm RCP	1,258	M	\$250	\$314,500
750 mm RCP	395	M	\$260	\$102,700
900 mm RCP	153	M	\$300	\$45,900
900 mm RCP (Channel Replacement)	125	M	\$300	\$37,500
1050 mm RCP (Extension)	6	M	\$350	\$2,100
1200 mm RCP	393	M	\$360	\$141,480

Total Drainage \$789,465

* Reference sketch showing typical pavement structural section elements of the roadway. Include (if available) T.I., R-Value and date tests were performed.

ALTERNATIVE 2
ATTACHMENT K
Sheet 2 of 6

Dist-Co-Rt 12-ORA-57

KP(PM) 34.0/36.3 (21.13/22.56) +1.1

EA 0C120K

Prgm. Code 20.50.025.714

Section 4 Speciality Items	Quantity	<u>Unit</u>	Unit Price	Item Cost	Section Cost
Retaining Walls (H=1200 mm)		M	\$500		
Maint. Vehicle Pullouts at Var. Locations	5	EA	\$10,000	\$50,000	
Edge Drain	4,398	M	\$20	\$87,960	
Remove Concrete Barrier	900	M	\$30	\$27,000	
Concrete Barrier Type 60D	2,555	M	\$130	\$332,150	
Remove AC Dike	3,798	M	\$15	\$56,970	
AC Dike	3,798	M	\$15	\$56,970	
MBGR (Wood Post)	216	M	\$130	\$28,080	
Remove AC Pavement	18,295	M^2	\$20	\$365,900	
Salvage MBGR		M	\$25	4202,700	
Landscape	1	LS	\$75,000	\$75,000	
Erosion Control	1	LS	\$54,000	\$54,000	
Slope Protection		LS		φ21,000	
R/E office		LS			
Water Pollution Control	1	LS	\$550,000	\$550,000	
Progress Schedule		LS		φεεσ,σσσ	
			Total Spe	ecialty Items	\$1,684,030
Section 5 Traffic Items				_	Ψ1,001,050
Relocate Call Box	6	EA	\$1,000	\$6,000	
Relocate Lighting Standard	20	EA	\$2,500	\$50,000	
Temporary Lighting	1	LS	\$20,000	\$20,000	
Temporary Striping	1	LS	\$20,000	\$20,000	
Pavement Delineation	1	LS	\$22,100	\$22,100	
Overhead Sign Structures	1	EA	\$6,500	\$6,500	
Roadside Signs	1	LS	\$5,500	\$5,500	
Traffic Control Systems	1	LS	\$40,000	\$40,000	
Fiber Optic System Relocation	1	LS	\$500,000	\$500,000	
CCTV Relocation	1	LS	\$30,000	\$30,000	
Construction Signs	1	LS	\$6,000	\$6,000	
Temporary Crash Cushion	55	EA	\$350	\$19,250	
Temporary K-Rail	5,830	M	\$45	\$262,350	
Traffic Management Plan (TMP)					
Public Awareness Campaign	1	LS	\$20,000	\$20,000	÷
Traffic Management Team	1	LS	\$24,000	\$24,000	
Portable CMS	4	EA	\$15,000	\$60,000	
CHP / COZEEP (9 Hours, 200 nights)	1	LS	\$198,000	\$198,000	
FSP / Tow Truck Service	1	LS	\$60,000	\$60,000	
-				Ψ00,000	

Total Traffic Items \$1,349,700

SUBTOTAL SECTIONS 1-5 _____\$10,015,227

ALTERNATIVE 2 ATTACHMENT K

Sheet 3 of 6

Dist-Co-Rt 12-ORA-57 KP(PM) 34.0/36.3 (21.13/22.56) +1.1 EA 0C120K Prgm. Code 20.50.025.714

Section 6 Minor Items		\$11,165,566		10%	<u>Item Cost</u> \$1,116,557	Section Cost
		(Subtotal Sect	ions 1-5)	(5% - 10%) Tota	l Minor Items	\$1,116,557
Section 7 Roadway Mobilization	n	\$12,282,123 (Subtotal Sect	X ions 1-6)	10% 10%	\$1,228,212	
				Total Roadway	Mobilization _	\$1,228,212
Section 8 Roadway Additions Supplemental Work		\$12,282,123 (Subtotal Sect	X ions 1-6)	10% (5% - 10%)	\$1,228,212	
Contingencies		\$12,282,123 (Subtotal Sect	X ions 1-6)	25 % (** %)* 	\$3,070,531	
				TOTAL ROADV	WAY ITEMS -	\$4,298,743
					f sections 1-8) _	\$17,809,078
					USE_	\$17,810,000
Estimate Prepared By	Hammer Sui		Phone #	(949) 724-2412	Date _	8/21/01
Estimate Checked By	Gary Slater		Phone #	(949) 724-7685	Date	8/21/01

*Use appropriate Percentage per Chapter 3-50 of Project Development Procedures Manual.

ALTERNATIVE 2
ATTACHMENT K
Sheet 4 of 6

Dist-Co-Rt 12-ORA-57 KP(PM) 34.0/36.3 (21.13/22.56) +1.1 EA 0C120K

Prgm. Code 20.50.025.714

STRUCTURES ITEMS	STRUCTURE						
		No. 1	No. 2	No. 3	No. 4		
Bridge Name Structure Type Width M (out to out) Lengths M. Total Area Sq. M. Footing Type (Pile/Spread) Cost Per square M (include 10% mobilization		yon Road UC ce Box Girder 9.72 148.75 1,445.00					
and 20% contingency) Total Cost for Structure		\$1,646					
Soil Nail Walls		\$22,600,000					
			SUBTOT	AL STRUCTU	RES ITEMS	\$25,000,000	_
Railroad Related Costs							
				TOTAL RAILR	_		_
			ТОТ	AL STRUCTU	RES ITEMS _	\$25,000,000	-
					USE	\$25,000,000	-
COMMENTS							
Estimate Prepared By	Elias Kurani		Phone #		Date	7/13/01	
(If appropriate, attach addition	nal pages and back	kup)			ATT	RNATIVE 2 ACHMENT K Sheet 5 of 6	

Dist-Co-Rt 12-ORA-57

KP(PM) 34.0/36.3 (21.13/22.56) +1.1

EA 0C120K Prgm. Code 20.50.025.714 III. RIGHT OF WAY **CURRENT** VALUE A. Acquisition, including excess lands \$780,000 and damages to remainder(s): (Temp. Const. Easements) B. Utility Relocation (State share) \$200,000 C. RAP D. Clearance/Demolition E. Title and Escrow Fees \$6,000 TOTAL RIGHT OF WAY ITEMS \$986,000 **USE:** \$986,000 Anticipated Date of Right of Way Certification (Date to which Values are Escalated) F. Construction Contract Work Brief Description of Work Right of Way Branch Cost Estimate for Work* *This dollar amount is to be included in the Roadway and/or Structures Items of Work, as appropriate. Do not include in Right of Way Items.

ALTERNATIVE 2
ATTACHMENT K
Sheet 6 of 6

Date

(If appropriate, attach additional pages and backup)

Estimate Prepared By _____ Harry Pantoja Phone #____

COMMENTS:

PRELIMINARY PSR COST ESTIMATE SUMMARY ALTERNATIVE 3

	Dist-Co-Rt 12-ORA	57
	KP(PM) _34.0/36.3	3 (21.13/22.56) +1.1
	EA 0C120K	
	Prgm. Code 20.50.025	.714
PROJECT DESCRIPT	ΓΙΟΝ:	
Limits: ORA-57 fro	m Lambert Road to 1.1 Km North of County Line	
Proposed Improvemen	tt (Scope) Construct climbing lane in the northbound direction	n
Alternatives:	3	
	SUMMARY OF PROJECT COST ESTIMATE	
	TOTAL ROADWAY ITEMS	\$29,934,000
	TOTAL STRUCTURE ITEMS	\$16,640,000
	SUBTOTAL CONSTRUCTION COSTS	\$46,574,000
	TOTAL RIGHT OF WAY ITEMS	\$1,129,000
	HAZARDOUS WAST MITIGATION COST	\$4,200,000
	ENVIRONMENTAL MITIGATION COST	\$
	TOTAL PROJECT CAPITAL OUTLAY COSTS	\$54,023,000
	<u>USE</u>	\$54,023,000
Reviewed by District Program Advisor	Educado Phone No: (949) 724-2929 Date:	P/ZZ/Z001
Reviewed by District Program Manager	Phone No: (949) 724-2233 Date:	8/27/01
Approved by Project Manager	Phone No: (949) 440-4497 Date:	8/27/01

ALTERNATIVE 3
ATTACHMENT K
Sheet 1 of 6

Dist-Co-Rt 12-ORA-57

KP(PM) 34.0/36.3 (21.13/22.56) +1.1

EA 0C120K

Prgm. Code 20.50.025.714

I. ROADWAY ITEMS

Section 1 Earthwork	Quantity	<u>Unit</u>	Unit Price	Item Cost	Section Cost
Roadway Excavation Imported Borrow Clearing & Grubbing	726,045 7,035 1	M3 M3 LS	\$15 \$10 \$200,000	\$10,890,675 \$70,350 \$200,000	
			Subtot	al Earthwork	\$11,161,025
Section 2 Structural Section*					
Portland Concrete Cement Pavement (PCCP) Ashpalt Concrete (Type B) Asphalt Treatment Permeable Base (ATPB) Class 2 Aggregate Base (AB) Class 2 Aggregate Subbase (AS)	7,034 5,869 3,878 7,380 10,135	M3 TONNE M3 M3 M3	\$300 \$60 \$110 \$50 \$35	\$2,110,282 \$352,145 \$426,601 \$369,003 \$354,736	\$2,612,766
			1 otal Stri	ictural Items	\$3,612,766

Section 3 Drainage

Sand Backfill (Abandon Pipe)	467	M3	\$80	\$37,360
Remove Inlet	23	EA	\$960	\$22,080
Concrete Channel Removal	90	M3	\$73	\$6,570
New Inlet	23	EA	\$2,700	\$62,100
New Manhole	4	EA	\$3,600	\$14,400
450 mm RCP	15	M	\$185	\$2,775
600 mm RCP	1,258	M	\$250	\$314,500
750 mm RCP	395	M	\$260	\$102,700
900 mm RCP	153	M	\$300	\$45,900
900 mm RCP (Channel Replacement)	125	M	\$300	\$37,500
1050 mm RCP (Extension)	6	M	\$350	\$2,100
1200 mm RCP	393	M	\$360	\$141,480

Total Drainage \$789,465

ALTERNATIVE 3
ATTACHMENT K
Sheet 2 of 6

^{*} Reference sketch showing typical pavement structural section elements of the roadway. Include (if available) T.I., R-Value and date tests were performed.

Dist-Co-Rt 12-ORA-57 KP(PM) 34.0/36.3 (21.13/22.56) +1.1 EA 0C120K

Prgm. Code 20.50.025.714

			-		
Section 4 Speciality Items	Quantity	<u>Unit</u>	Unit Price	Item Cost	Section Cost
Retaining Walls (H=1200 mm)		M	\$500		
Maint. Vehicle Pullouts at Var. Locations		EA	\$10,000	\$50,000	
Edge Drain	4,398	M	\$20	\$87,960	
Remove Concrete Barrier	900	M	\$30	\$27,000	
Concrete Barrier Type 60D	2,555	M	\$130	\$332,150	
Remove AC Dike	3,798	M	\$15	\$56,970	
AC Dike	3,798	M	\$15	\$56,970	
MBGR (Wood Post)	216	M	\$130	\$28,080	
Remove AC Pavement	18,295	M2	\$20	\$365,900	
Salvage MBGR		M	\$25		
Landscape	1	LS	\$75,000	\$75,000	
Erosion Control	1	LS	\$54,000	\$54,000	
Slope Protection		LS	-01		
R/E office		LS			
Water Pollution Control	1	LS	\$720,000	\$720,000	
Progress Schedule		LS			
			Total Sp	ecialty Items	\$1,854,030
Section 5 Traffic Items				_	
Relocate Call Box	6	EA	\$1,000	\$6,000	
Relocate Lighting Standard	20	EA	\$2,500	\$50,000	
Temporary Lighting	1	LS	\$20,000	\$20,000	
Temporary Striping	1	LS	\$20,000	\$20,000	
Pavement Delineation	1	LS	\$22,100	\$22,100	
Overhead Sign Structures		EA	\$6,500	\$6,500	
Roadside Signs Traffic Control Systems		LS	\$5,500	\$5,500	
		LS	\$40,000	\$40,000	
Fiber Optic System Relocation CCTV Relocation		LS	\$500,000	\$500,000	
Construction Signs	1	LS	\$30,000	\$30,000	
Temporary Crash Cushion		LS	\$6,000	\$6,000	
Temporary Crash Cushion Temporary K-Rail	55	EA	\$350	\$19,250	
Temporary K-Ran	5,830	M	\$45	\$262,350	
Traffic Management Plan (TMP)					
Public Awareness Campaign	1	LS	\$20,000	\$20,000	
Traffic Management Team	1	LS	\$24,000	\$24,000	
Portable CMS	4	EA	\$15,000	\$60,000	
CHP / COZEEP (9 Hours, 200 nights)	1	LS	\$198,000	\$198,000	
FSP / Tow Truck Service	1	LS	\$60,000	\$60,000	

Total Traffic Items \$1,349,700

SUBTOTAL SECTIONS 1-5 \$17,616,647

ALTERNATIVE 3 ATTACHMENT K

Sheet 3 of 6

Dist-Co-Rt 12-ORA-57 KP(PM) 34.0/36.3 (21.13/22.56) +1.1 EA 0C120K Prgm. Code 20.50.025.714

Section 6 Minor Items		\$18,766,986	X	10%	<u>Item Cost</u> \$1,876,699	Section Cost
		(Subtotal Section	ns 1-5)	(5% - 10%) Tota	al Minor Items	\$1,876,699
Section 7 Roadway Mobilizati	on	\$20,643,685 (Subtotal Section	X ns 1-6)	10% 10%	\$2,064,368	
				Total Roadway	y Mobilization	\$2,064,368
Section 8 Roadway Additions Supplemental Work						
		\$20,643,685 (Subtotal Section	X ns 1-6)	10% (5% - 10%)	\$2,064,368	
Contingencies		\$20,643,685 (Subtotal Section	X ns 1-6)		\$5,160,921	
				Total Road	way Additions	\$7,225,290
				TOTAL ROAD (Total o	WAY ITEMS f sections 1-8)	\$29,933,343
					USE_	\$29,934,000
Estimate Prepared By	Hammer Sui		Phone #	(949) 724-2412	Date	8/21/01
Estimate Checked By	Gary Slater		Phone #	(949) 724-7685	Date _	8/21/01

*Use appropriate Percentage per Chapter 3-50 of Project Development Procedures Manual.

ALTERNATIVE 3
ATTACHMENT K
Sheet 4 of 6

Dist-Co-Rt 12-ORA-57 KP(PM) 34.0/36.3 (21.13/22.56) +1.1 EA 0C120K Prgm. Code 20.50.025.714

Estimate Prepared By	Elias Kurani		Phone #		Date	7/13/01
COMMENTS						
COMMENTS					USE	\$16,640,000
				TOTAL RAILE TAL STRUCTU	-	\$16,640,000
Railroad Related Costs			SUBTO1	TAL STRUCTI	JRES ITEMS _	\$16,640,000
Soil Nail Walls (NB)		\$14,240,000	OV IDATION OF			016 640 000
and 20% contingency) Total Cost for Structure		\$1,646	. ————			
Bridge Name Structure Type Width M (out to out) Lengths M. Total Area Sq. M. Footing Type (Pile/Spread) Cost Per square M (include 10% mobilization		anyon Road UC ace Box Girder 9.72 148.75 1,445.00				
		No. 1	No. 2	No. 3	No. 4	
STRUCTURES ITEMS		STRUCTURE				

Dist-Co-Rt 12-ORA-57 KP(PM) 34.0/36.3 (21.13/22.56) +1.1 EA 0C120K Prgm. Code 20.50.025.714

III. RIGHT OF WAY	(
			CURRENT VALUE		
A. Acquisition, incluand damages to re	uding excess lands emainder(s): (Temp. Const. E	Casements)	\$924,000		
B. Utility RelocationC. RAP	(State share)	-	\$200,000		
D. Clearance/Demoi	Fees	-	\$2,500		
F. Developmental Fo	ees (Env. Permit etc.)	TOTAL RIGHT OF	\$2,500 WAY ITEMS	\$1,129,000	
			USE:	\$1,129,000	
	Anticipated Date of (Date to which Value	Right of Way Certification are Escalated)	ı -	07/04	
F. Construction Con Brief De	tract Work scription of Work				
*This do	Way Branch Cost Estimate for llar amount is to be included in the set Items of Work, as appropriated.	in the Roadway and/or	ght		
COMMENTS:					
Estimate Prepared By	Harry Pantoja (Print Name)	Phone #		Date	06/29/01
(If appropriate, attach	additional pages and backup)	,		ATTA	NATIVE 3 CHMENT K

PRELIMINARY PSR COST ESTIMATE SUMMARY ALTERNATIVE 4

Dist-Co-Rt 12-ORA-57

	KP(PM	1) 34.0/36.3 (21.13/22.56) +1.1				
EA 0C120K							
	Prgm. Coc	le 20.50.025.7	14				
PROJECT DESCRIPTION:							
Limits: ORA-57 from Lambert Road	to 1.1 Km North of County Line						
Proposed Improvement (Scope) Construct climbing lane in the northbound direction							
Alternatives:	4						
SUMM	ARY OF PROJECT COST ESTIM	IATE					
TOTAL ROA	DWAY ITEMS	5	23,365,000				
TOTAL STRU	9	18,290,000					
SUBTO	S	41,655,000					
TOTAL RIGH	IT OF WAY ITEMS	\$	986,000				
HAZARDOUS	S WAST MITIGATION COST	9	4,200,000				
ENVIRONME	ENTAL MITIGATION COST	\$	2,120,000				
TOTAL	PROJECT CAPITAL OUTLAY COSTS	9	48,961,000				
	<u>USE</u>	\$	48,961,000				
Reviewed by District Program Advisor Saied F	Phone No: (949) 724-2929 Hashemi	Date:	8/22/2001				
Reviewed by District Program Manager George	Phone No: (949) 724-2233	Date:	8/27/01				
Approved by Project Manager Pija	Phone No: (949) 440-4497	_ Date:	8/27/01				

ALTERNATIVE 4
ATTACHMENT K
Sheet 1 of 6

Dist-Co-Rt 12-ORA-57 KP(PM) 34.0/36.3 (21.13/22.56) +1.1 EA 0C120K Prgm. Code 20.50.025.714

I. ROADWAY ITEMS

Section 1 Earthwork	Quantity	<u>Unit</u>	Unit Price	Item Cost	Section Cost
Roadway Excavation Imported Borrow Clearing & Grubbing	180,268 38,893 1	M3 M3 LS	\$15 \$10 \$200,000	\$2,704,020 \$388,930 \$200,000	
			Subtota	l Earthwork	\$3,292,950
Section 2 Structural Section*					
Portland Concrete Cement Pavement (PCCP)	7,469	M3	\$300	\$2,240,690	
Ashpalt Concrete (Type B)	10,589	TONNE	\$60	\$635,318	
Asphalt Treatment Permeable Base (ATPB)	6,003	M3	\$110	\$660,279	
Class 2 Aggregate Base (AB)	20,018	M3	\$50	\$1,000,884	
Class 2 Aggregate Subbase (AS)	18,990	M3	\$35	\$664,640	
			Total Stru	ctural Items	\$5,201,811

Section 3 Drainage

Sand Backfill (Abandon Pipe)	900	M3	\$80	\$72,000
Remove Inlet	46	EA	\$960	\$44,160
Concrete Channel Removal	90	M3	\$73	\$6,570
New Inlet	50	EA	\$2,700	\$135,000
New Manhole	8	EA	\$3,600	\$28,800
450 mm RCP	50	M	\$185	\$9,250
600 mm RCP	2,500	M	\$250	\$625,000
750 mm RCP	800	M	\$260	\$208,000
900 mm RCP	300	M	\$300	\$90,000
900 mm RCP (Channel Replacement)	250	M	\$300	\$75,000
1050 mm RCP (Extension)	6	M	\$350	\$2,100
1200 mm RCP	800	M	\$360	\$288,000

Total Drainage \$1,583,880

ALTERNATIVE 4
ATTACHMENT K

Sheet 2 of 6

^{*} Reference sketch showing typical pavement structural section elements of the roadway. Include (if available) T.I., R-Value and date tests were performed.

Dist-Co-Rt 12-ORA-57

KP(PM) 34.0/36.3 (21.13/22.56) +1.1

EA 0C120K

Prgm. Code 20.50.025.714

Retaining Walls (H=1200 mm) M \$500	
Maint. Vehicle Pullouts at Var. Locations 5 EA \$10,000 \$50,000	
Edge Drain 5,574 M \$20 \$111,480	
Remove Concrete Barrier 2,382 M \$30 \$71,460	
Concrete Barrier Type 60D 2,549 M \$130 \$331,370	
Concrete Barrier Type 60GC 1,440 M \$300 \$432,000	
Concrete Barrier Type 736 1,267 M \$260 \$329,420	
Remove AC Dike 5,276 M \$15 \$79,140	
AC Dike 5,276 M \$15 \$79,140	
MBGR (Wood Post) 232 M \$130 \$30,160	
Remove AC Pavement 33,811 M2 \$20 \$676,220	
Salvage MBGR M \$25	
Landscape 1 LS \$75,000 \$75,000	
Erosion Control 1 LS \$54,000 \$54,000	
Slope Protection LS	
R/E office LS	
Water Pollution Control 1 LS \$550,000 \$550,000	
Progress Schedule LS	
Total Specialty Items \$2,8	69,390
Section 5 Traffic Items	
Relocate Call Box 10 EA \$1,000\$10,000	
Relocate Lighting Standard 20 EA \$2,500 \$50,000	
Temporary Lighting 1 LS \$20,000 \$20,000	
Temporary Striping 1 LS \$70,000 \$70,000	
Pavement Delineation 1 LS \$71,700 \$71,700	
Overhead Sign Structures 3 LS \$6,500 \$19,500	
Roadside Signs 1 LS \$5,200 \$5,200	
Traffic Control Systems 1 LS \$40,000 \$40,000	
Fiber Optic System Relocation 1 LS \$500,000 \$500,000	
CCTV Relocation 1 LS \$30,000 \$30,000	
Construction Signs 1 LS \$6,000 \$6,000	
Temporary Crash Cushion 77 EA \$350 \$26,950	
Temporary K-Rail 10,206 M \$45 \$459,270	
Traffic Management Plan (TMP)	
Public Awareness Campaign 1 LS \$20,000 \$20,000	
Traffic Management Team 1 LS \$24,000 \$24,000	
Portable CMS 6 EA \$15,000 \$90,000	
CHP / COZEEP (9 Hours, 200 nights) 1 LS \$198,000 \$198,000	
FSP / Tow Truck Service 1 LS \$60,000 \$60,000	

Total Traffic Items \$1,700,620

SUBTOTAL SECTIONS 1-5 ____\$12,322,848

ALTERNATIVE 4
ATTACHMENT K
Sheet 3 of 6

Dist-Co-Rt 12-ORA-57 KP(PM) 34.0/36.3 (21.13/22.56) +1.1 EA 0C120K Prgm. Code 20.50.025.714

Section 6 Minor Items		\$14,648,651 (Subtotal Section	X	10% (5% - 10%)	Item Cost \$1,464,865	Section Cost
		(Subtotal Section	IS 1-3)		l Minor Items	\$1,464,865
Section 7 Roadway Mobi	ilization	\$16,113,516 (Subtotal Section	X ns 1-6)	10% 10%	\$1,611,352	
				Total Roadway	Mobilization	\$1,611,352
Section 8 Roadway Addi Supplemental Work	tions	\$16,113,516 (Subtotal Section	X ns 1-6)	10% (5% - 10%)	\$1,611,352	
Contingencies		\$16,113,516 (Subtotal Section	X as 1-6)	25% (**%)* Total Roady	\$4,028,379 way Additions	¢5 (20 72)
				TOTAL ROADV (Total of	VAY ITEMS sections 1-8)	\$5,639,731 \$23,364,599
					USE_	\$23,365,000
Estimate Prepared By _	Hammer Sui		Phone #	(949) 724-2412	Date _	8/21/01
Estimate Checked By _	Gary Slater		Phone #	(949) 724-7685	Date _	8/21/01

*Use appropriate Percentage per Chapter 3-50 of Project Development Procedures Manual. ALTERNATIVE 4
ATTACHMENT K
Sheet 4 of 6

Dist-Co-Rt 12-ORA-57 KP(PM) 34.0/36.3 (21.13/22.56) +1.1 EA 0C120K Prgm. Code 20.50.025.714

STRUCTURES ITEMS		STRUCTURE			
	No. 1	No. 2	No. 3	No. 4	
Bridge Name Structure Type Width M (out to out) Lengths M. Total Area Sq. M. Footing Type (Pile/Spread) Cost Per square M (include 10% mobilization	Tonner Canyon Road UC Cast in Place Box Girder 9.72 148.75 1,445.00				
and 20% contingency)	\$1,646				
Total Cost for Structure	\$2,400,000				
Soil Nail Walls (NB) MSE (SB)	\$13,824,420 \$2,065,165				
()	42 ,000,100	SUBTOTA	AL STRUCTU	RES ITEMS _	\$18,289,585
Railroad Related Costs	·				
		SUBT	OTAL RAILR	OAD ITEMS _	
		TOTA	AL STRUCTU	RES ITEMS _	\$18,289,585
				USE _	\$18,290,000
COMMENTS					
Estimate Prepared By		Phone #		Date	7/13/01
	s Kurani	Phone #		,	
(If appropriate, attach additional pa	ges and backup)			ATTAC	NATIVE 4 CHMENT K Sheet 5 of 6

Dist-Co-Rt 12-ORA-57 KP(PM) 34.0/36.3 (21.13/22.56) +1.1 EA 0C120K Prgm. Code 20.50.025.714

III. RIGHT OF WAY	CURRENT VALUE	
 A. Acquisition, including excess lands and damages to remainder(s): (Temp. Const. Easements) B. Utility Relocation (State share) C. RAP D. Clearance/Demolition E. Title and Escrow Fees 	\$780,000 \$200,000 	
	HT OF WAY ITEMS	\$986,000
	USE:	\$986,000
Anticipated Date of Right of Way Cer (Date to which Values are Escalated)	rtification	07/04
F. Construction Contract Work Brief Description of Work Right of Way Branch Cost Estimate for Work*	nd/or	
*This dollar amount is to be included in the Roadway ar Structures Items of Work, as appropriate. Do not inclu of Way Items.		
*This dollar amount is to be included in the Roadway ar Structures Items of Work, as appropriate. Do not inclu		

(If appropriate, attach additional pages and backup)

ALTERNATIVE 4
ATTACHMENT K
Sheet 6 of 6

Attachment L

Preliminary Environmental Assessment Report

Memorandum

To:

GARY SLATER

DISTRICT 12 CHIEF PROJECT STUDY REPORT UNIT

Attn: Hammer Sui

From:

LESLIE MANDERSCHEID

DEPARTMENT OF TRANSPORTATION

DISTRICT 12

CHIEF, ENVIRONMENTAL PLANNING, BRANCH B

Date: August 2, 2001

File: 12-ORA-57

KP 34.04/36.29 Climbing Lane

0C120K

Subject: Additional Environmental Planning Commentary Regarding the PSR

After reviewing the draft PSR and assessing our comments dated July 12, 2001 (attached), we request The Environmental Determination section of the be revised. The July 12, 2001 comments are still valid and need to be addressed. Furthermore, we have attached a revised copy of the Preliminary Environmental Assessment Report (PEAR).

Comments:

1. Include the following for the Section 8 Environmental Determination, which was formerly on page 11.

The preliminary investigation of the proposed project focused on the direct impacts regarding a build alternative, typically from median of the highway to the top of the slope on either side. The potential for adverse impacts in this environmentally sensitive area would affect the viability of alternatives and involve extensive studies and time-consuming processes that could effect schedules. The anticipated documentation for CEQA and NEPA compliance would be an Environmental Impact Report/Environmental Impact Statement (EIR/EIS), with Caltrans as the Lead Agency for CEQA and Federal Highway Administration (FHWA) as the Lead Agency for NEPA. The EIR/EIS could require three years to prepare without extensive studies or time-consuming processes.

The reviews for biological concerns, cultural resources, and hazardous materials identified potential issues that could affect cost and/or schedules. The environmental setting includes Endangered Species (Federal and State), Species of Concern, and would require a Biological Assessment and Wetland Delineation, incorporated into a Natural Environmental Study (NES). The NES could help identify mitigation for temporary and permanent impacts. Reasonable mitigation costs are generally considered to be up to 10% of the project cost. For this project, biological mitigation could include California Gnatcatcher exclusion, restricted construction scheduling, habitat enhancement, habitat restoration, or habitat replacement. Special considerations for the following processes have the potential to complicate, slow, and essentially lengthen the environmental process. For this project special considerations may entail; Section 7 Coordination, bird surveys, turtle surveys, wetland delineation,

coordination with several resource and/or regulatory agencies, possible NEPA 404 Coordination, and adherence to the Migratory Bird Treaty Act.

Time constraints for performing the surveys required in the NES are dictated by the regulatory agency and seasonal conditions. Surveys can require one to three years. Excluding the cost for surveys, permits, and monitoring of the mitigated areas; the biological issues could cost \$4,756,000. There appears to be no cultural resources located within the project limits; however, the presence of fossil fuels could suggest paleontological resources. Hazardous waste may occur within the project limits. An Initial Site Assessment would report the findings and confirm or negate an added \$4,200,000 for Hazardous Waste to the project cost making the mitigation costs \$8,900,000.

The following table presents the anticipated permits required for this proposed project.

egulation and	l Description	Resource Agency
Section 7	Endangered Species Act - Conserve End. Species	US Fish and Wildlife Service
	Fish and Game Code – Streambed Alteration	CA Department of Fish and Game
		US Army Corps. of Engineers
		Santa Ana RWQCB
		Santa Ana RWQCB
	The state of the s	US Army Corps. of Engineers
	Section 7 Section 1601 Section 404 Section 401 Section 402	Section 1601 Fish and Game Code – Streambed Alteration Section 404 Clean Water Act – Dredge and Fill Section 401 Clean Water Act – Waste Discharge Certification Section 402 Clean Water Act – NPDES, Stormwater

You may contact Shay Lynn Harrison of my staff at x 4460 or me at x 2122 with any concerns regarding these comments.

Attachments

c: Pija Ansari, Project Manager Shay Lynn Harrison, Environmental Planner, Branch B

Preliminary Environmental Analysis Report: District 12

Project Information

District 12 County ORA Route 57	Kilometer Post (Post Mile)	34.04/36.29 (21.15/22.55)	EA <u>0C120K</u>		
Project Title: SR-57 Northbound Climbing Lane					
Project Manager Pija Ansari	Phone # <u>440-4497</u>				
Project Engineer Hammer X. Sui			Phone # <u>724-2436</u>		
Environmental Branch Chief Leslie Manderscheid			Phone # <u>724-2122</u>		
Environmental Coordinator Shay Lynn	Phone # <u>440-4460</u>				

Project Description

Purpose and Need: The proposed project contains the area, which has been identified as a cokepoint by OCTA. The State Route 57 is a major link between Orange County and Los Angles County and this particular segment contains traffic for the local area, which includes traffic from SR-90 and . At peak hour the current Level of service is "F." Although the area does not have an accident rate higher than the average State highway system, in which 46% of all accidents involved trucks.

The proposed project would increase the level of service, relieving a chokepoint area, as defined by OCTA. This may improve safety by removing some of the vehicles that are typically involved with 46% of the accidents. The increase in capacity would meet the current and future demand.

For more detail, please review the "Project Study Report: SR-57 Northbound Climbing Lane Widening."

Description of work: In all alternatives, this project proposes the construction of a climbing truck lane (northbound only) on SR 57 starting from Lambert Road north to the Orange County/L.A. County Line. Due to the variable terrain along this stretch of SR-57 as well as complicated retaining wall placement, grading and new retaining walls placement must occur. Dewatering and bridge work would occur to span the creek. Additional grading would be required to allow for ramp realignment. One alternative (Alternative 4) proposed widening on the Southbound side and changing the centerline, but all other work would be applicable. Further review for the description of work can be found within the corresponding Project Study Report.

Alternatives: Fourteen project concepts were considered, but only five were advanced for alternative consideration. However, for environmental scoping purposes, an overall core project area was selected and studied, since the proposed project concepts were not finalized to proposed alternatives. The five Alternatives could be further reviewed in the Project Study

Report for this proposed project. The Five alternatives are; No build, Minimum Build, Ultimate Build, Interim Build, and a southbound build.

Anticipated Environmental Approval

CEQA	NEPA
Categorical/Statutory Exemption Negative Declaration Environmental Impact Report	Categorical Exclusion Finding of No Significant Impact Environmental Impact Statement

The anticipated document for the proposed project is an EIR/EIS. The proposed project may result in substantial impacts to wildlife and plant life that may not be less than significant after mitigation. In addition, extensive soil contamination from past oil refining activities would require study and documentation. At minimum an EIR/EIS would require three years to prepare.

PSR Summary Statement (to be included with the Environmental Compliance Section)

The preliminary investigation of the proposed project focused on the direct impacts regarding a build alternative, typically from median of the highway to the top of the slope on either side. The potential for adverse impacts in this environmentally sensitive area would affect the viability of alternatives and involve extensive studies and time-consuming processes that could effect schedules. The anticipated documentation for CEQA and NEPA compliance would be an Environmental Impact Report/Environmental Impact Statement (EIR/EIS), with Caltrans as the Lead Agency for CEQA and Federal Highway Administration (FHWA) as the Lead Agency for NEPA. The EIR/EIS could require three years to prepare without extensive studies or time-consuming processes.

The reviews for biological concerns, cultural resources, and hazardous materials identified potential issues that could affect cost and/or schedules. The environmental setting includes Endangered Species (Federal and State), Species of Concern, and would require a Biological Assessment and Wetland Delineation, incorporated into a Natural Environmental Study (NES). The NES could help identify mitigation for temporary and permanent impacts. Reasonable mitigation costs are generally considered to be up to 10% of the project cost. For this project, biological mitigation could include California Gnatcatcher exclusion, restricted construction scheduling, habitat enhancement, habitat restoration, or habitat replacement. Special considerations for the following processes have the potential to complicate, slow, and essentially lengthen the environmental process. For this project special considerations may entail; Section 7 Coordination, bird surveys, turtle surveys, wetland delineation, coordination with several resource and/or regulatory agencies, possible NEPA 404 Coordination, and adherence to the Migratory Bird Treaty Act.

Time constraints for performing the surveys required in the NES are dictated by the regulatory agency and seasonal conditions. Surveys can require one to three years. Excluding the cost for surveys, permits, and monitoring of the mitigated areas; the biological issues could cost \$4,756,000. There appears to be no cultural resources located within the project limits; however, the presence of fossil fuels could suggest paleontological resources. Hazardous waste may occur within the project limits. An Initial Site Assessment would report the findings

and confirm or negate an added \$4,200,000 for Hazardous Waste to the project cost making the mitigation costs \$8,900,000.

The following table presents the anticipated permits required for this proposed project.

Regulation ar	nd Description	Resource Agency
	Endangered Species Act - Conserve End. Species	US Fish and Wildlife Service
	Fish and Game Code – Streambed Alteration	CA Department of Fish and Game
Section 404	Clean Water Act – Dredge and Fill	US Army Corps. of Engineers
Section 401	Clean Water Act – Waste Discharge Certification	Santa Ana RWQCB
Section 402	Clean Water Act – NPDES, Stormwater	Santa Ana RWQCB
Section 10	Rivers and Harbors Act – Navigable Waters	US Army Corps. of Engineers

Special Considerations

Special Considerations would fluctuate depending on the proposed project alternative. Until reasonable and feasible alternatives are identified, which meet the goals and objectives of the proposed project, Environmental Planning has reviewed the most likely "footprint" of the proposed project with focus on the direct impacts regarding a build alternative. In general, special considerations would incorporate any special processes and/or seasonal constraints that may effect project delivery and require unusual, exceptional, or extended environmental processes. As noted, the proposed project footprint overlays an environmentally sensitive area.

Biological monitoring would most likely be required in addition to limiting the construction window. Special Considerations for the most likely "footprint" for this project may entail Section 7 Coordination, bird surveys, turtle surveys, wetland delineation, coordination with several resource and/or regulatory agencies, and possible NEPA 404 Coordination. The previous items have the potential, in and of themselves; to complicate, slow essentially lengthen the environmental process. Oil wells are located in the corridor, which increase the potential for paleontological resources and the potential for hazardous materials to be present.

Anticipated Project Mitigation

Mitigation for temporary and permanent impacts to sensitive biological resources (wetlands, riparian vegetation, regulated plants and animals) would be required. Temporary bat roosts may be required for bats displaced by construction disturbance. Avoidance of California Gnatcatcher nests may be required from February 1 through August 31. Reasonable mitigation costs are generally considered to be up to 10% of the project cost. For this project, biological mitigation could include California Gnatcatcher exclusion, restricted construction scheduling, habitat enhancement, habitat restoration, or habitat replacement; the cost of which is estimated to be around \$4,756,000.00 dollars, which excludes the cost for species surveys (by outside consultants), permit association fees, and mitigation monitoring. Hazardous waste mitigation could add an additional \$4.2 million.

<u>Disclaimer</u>

This report is not an environmental document. Preliminary analysis, determinations, and estimates of mitigation costs are based on the project description provided in this report. The estimates and conclusions provided are approximate and are based on cursory analysis of probable effects related directly to the project impact. This report is to provide a preliminary

level of environmental analysis to supplement the Project Study Report. Changes in project scope, alternatives, or environmental laws, processes, or permit requirements after the completion of the PEAR would require additional evaluation later in the project development process.

Reviewed by:	
Alslie Manderschud	Date: <u>8/2/0</u> /
Myronmental Branch Chief	
N/A	Date:
Project Manager	

Environmental Technical Reports or Studies Required

Community Impact Assessment Farmland Section 4(f) Evaluation Visual Resources Water Quality Floodplain Evaluation and Hydrology Noise Study Air Quality Study Paleontology Cumulative Impacts Other: Geology, Traffic, Utilities Landuse, Mineral, Population & Housing, Public Services, and Recreation	Study/ Report	Document Text Only	Not Anticipated
Cultural ASR HSR HASR HPSR Section 106/SHPO Native American Coordination Other: Field visit Literature Review			
Hazardous Waste ISA (Additional) PSA Other:			
Endangered Species (Federal) Endangered Species (State) Species of Concern (CNPS, USFWS, BLM, S, F) Biological Assessment (USWFS, NMFS, State) Wetlands Natural Environment Study Biological Assessment NEPA 404 Coordination Other: May require Sect. 7 consultation			
Permits 401 Permit Coordination 404 Permit Coordination 1601 Permit Coordination City/County Coastal Permit Coordination State Coastal Permit Coordination NPDES Coordination US Coast Guard (Section 10)			

Project Screening

An attached project location map indicates all known and/or potential hazardous waste, cultural (not archaeological) and biological sites identified. Also included are drainage and/or waterways.

Railroad Involvement? No **Excavation?** Yes 1. Project Features: New R/W? No Subsurface utility relocation? Structure demolition/modification? Yes

2. Project Setting:

SR-57 from Lambert Road and the LA/Orange county line climbs through the

hills of Brea Canyon.

Rural or Urban:

Urban land use with mixed residential, rural, and light industrial.

Current land uses:

Transportation

Adjacent land uses: Residential, light industrial, rural

Existing landscaping

/planting:

Native vegetation and no planting

Discussion of Technical Review

Below are brief paragraphs focused on topics that would need environmental review including reasons for any absence of issues. The paragraphs follow the Checklist. Typical evaluation for the following issues would be written as separate documentation from the EIR/EIS, but only separate/formal technical studies would be included as attachments to the EIR/EIS.

Socio-economic and Community Effects: The project is not expected to have any effects on the local community or the economy which would require a separate technical study, because no right of way takes are required and the assumption is made that the communities agree that this is a transportation issue that can be resolved with a truck lane. Documentation for Community Involvement would occur through the environmental document, not a separate study.

Scoping meetings/Open Houses with the communities involved would give a better indication for level of documentation required. The communities surrounding the proposed project include residences, users of the high school, and the businesses, along either side of the freeway. If a Community Impact Assessment were requested, the formal technical report would require at least 3 months preparation.

Farmlands: The site visit and aerial photographs did not indicate the presence of farmland. The environmental document would site GIS data to conclude (if founded) that no impacts to farmland are expected, since farmland is not located near the proposed project limits. A separate technical study is not required.

4(f) Impacts: No impacts regarding Section 4(f) are anticipated due to a map review and literature search, which would have identified parks and recreation and historic properties (using National Register of Historic Places, California Register of Historic Resources, State Historic Landmarks, or Points of Historic Interest, and the state and local inventories). Section 4(f) issues would be addressed within the environmental document, since a formal technical study is not required.

<u>Visual Effects</u>: Visual resources shall be reviewed and documented within the environmental document, since substantial impacts are not anticipated; however, further coordination with a Landscape Architect is required.

<u>Water Quality and Erosion</u>: The site would be evaluated for potential water quality impacts associated with the project. Site access for construction must be included in any water quality analysis. A separate Water Quality Technical Report would be completed which would take approximately three months to prepare.

The project is covered under the Statewide NPDES Storm Water Permit (Order # 99-06-DWQ, NPDES # CAS 000003). A Storm Water Pollution Prevention Plan (SWPPP) would need to be prepared and implemented for this project. Preparation for a SWPPP generally requires 2 ½ months (30 days to write, 15 days to review, 15 days to re-submit, and 15 day for a final review). Note that specialized Best Management Practices (BMP's) are required for work within or around a creek.

Additional constraints could include slurry disposal, concrete waste management, and a permit for Section 10 of the Rivers and Harbors Act for additions to the bridge above Tonner Canyon Creek.

<u>Floodplain</u>: A floodplain evaluation report would be prepared to analyze the effects of the alterations to the bridge on the 100-year floodplain. Only a qualified hydraulic engineer can make a determination regarding floodplain issues, but a review the Flood Hazard Maps from ESRI/FEMA indicate a low impact to the 100-year floodplain.

<u>Air and Noise</u>: Air quality and noise impacts should be assessed by Air Quality and Noise Quality Engineers to ensure compliance with the appropriate laws. Work and time estimates should be made by Environmental Engineering.

<u>Paleontology:</u> The presence of oil increases the likelihood of paleontological resources. Further study would be necessary to determine impacts regarding paleontology. A formal technical study is not anticipated; however, preparation for inclusion into the environmental documentation would require three months.

<u>Cumulative Impacts</u>: Cumulative Impacts would be incorporated into the environmental documentation; therefore, a separate technical study is not anticipated.

<u>Geology</u>: Geology of the project area is best understood through the preparation of a formal technical study.

<u>Traffic:</u> Traffic of the project area is best understood through the preparation of a separate technical study.

<u>Utilities:</u> Utilities within the project area are best understood through the preparation of a formal technical study.

<u>Landuse, Mineral, Population & Housing, Public Services, and Recreation:</u> These topics would be reviewed and incorporated into the environmental documentation. Separate technical studies are not anticipated.

<u>Cultural Resources:</u> Archaeology: A field inspection occurred on 12/11/00 by Philippe Lapin the District Archaeologist. There were no cultural materials identified during this field survey conducted from Lambert Road to Tonner Creek Bridge (KP 34/35). Since there appears to be no cultural resources located within the project, this project would have "no affect" on historic properties contingent upon the following conditions.

- 1. Additional review of the proposed project to ensure that the alternatives are within the proposed core project area.
- 2. If cultural remains and/or human remains are discovered in or adjacent to Caltrans Right of Way during excavation and/or construction activities, all earth moving activity within and around the site area must stop and the Caltrans Archaeologist notified immediately.

The proposed project appears to comply with the laws and regulation regarding cultural resources, any changes in the project scope, alternatives, or work activity must be presented to the environmental coordinator, so that additional cultural reviews can occur as appropriate.

Historic: The state route structures were built in 1971; therefore, impacts to historic properties are not anticipated.

Native American Coordination: Further Native American Coordination is not anticipated. A letter was sent to the Native American Heritage Commission in regards to the proposed project. The letter would be documented within the environmental documentation and a separate technical study is not anticipated.

<u>Hazardous Waste/Materials:</u> A detailed subsurface site investigation is anticipated to be conducted in early Summer of 2001. The purpose of this investigation is to evaluate and assess the possible impacts of natural petroleum hydrocarbons to the subsurface soil materials along the existing cut slope located with in the project area between Lambert Road and Tonner Canyon. The result of this investigation will be incorporated into the environmental document. Therefore, it is anticipated that this study would be finalized in the PA/ED phase. Work and time estimates should be made by Environmental Engineering.

Biological Resources: This project would affect sensitive biological resources. This project would lower the value and quantity of native plants and impact all sensitive wildlife associated with the plant communities, and have impacts to Waters of the United States, therefore, the biologist concluded that this project may have significant impacts to sensitive biological resources and would require mitigation and coordination. In addition the following coordination would occur: biological surveys in which further review is necessary to obtain accurate work and time estimates; the Natural Diversity Data Base (NDDB) indicated the presence of the California Gnatcatcher, with in the project limits, which has threatened status under federal law and is a species of concern status under State law; and future protocol surveys would be required to determine the presence/absence of this species, which may have to be consulted out. These surveys could include:

- In addition, formal consultation with California Fish and Game on the Southwest Pond Turtle may be required; thus, a future protocol survey must be completed to determine the presence of this species within the project limits;
- The existing bridge should be inspected for the presence/absence of bats, nesting swallows and other protected species. Bird and bat surveys should be completed in the spring/summer season.

The NDDB does not indicate any other known sensitive biological resources in this location. Furthermore, any work, including soil borings, between the months of February to August should be coordinated with the District Biologist to ensure compliance with the environmental laws regarding the sensitive flora and fauna.

Wetlands: Executive Order 11990 requires an avoidance alternative analysis for wetland impacts unless there is no practicable alternative available. Impacts to waters of the U.S. and wetlands from the project and any temporary access roads would need to be quantified through a Wetland Delineation technical study.

<u>Invasive Pest Plant Species</u>: Executive Order 13112 requires that any federal action may not cause or promote the spread or introduction of invasive species. The proposed project may introduce invasive species through landscaping; therefore, measures to ensure this project complies with EO 13112 would be taken.

Right-of-Way Relocation or Staging Areas: No new Right-of-Way is indicated for this project. Material sites and disposal sites are assumed, but not identified. These areas, which must be identified prior to initiating environmental studies, would require complete environmental evaluation as part of this project.

Mitigation: Mitigation for temporary and permanent impacts to sensitive biological resources (wetlands, riparian vegetation, regulated plants and animals) would be required. Temporary bat roosts may be required for bats displaced by construction disturbance. Avoidance of California Gnatcatcher nests may be required from February 1 through August 31. Reasonable mitigation costs are generally considered to be up to 10% of the project cost. For this project, biological mitigation could include California Gnatcatcher exclusion, restricted construction scheduling, habitat enhancement, habitat restoration, or habitat replacement; the cost of which is estimated to be around \$4,756,000.00 dollars, which excludes the cost for species surveys (by outside consultants), permit association fees, and mitigation monitoring. Hazardous waste mitigation could add an additional \$4.2 million.

<u>Permits</u>: The proposed project would require the permits identified below and additional permits for the material site and disposal site may be required.

- Coordination with California Department of Fish and Game for a 1601 permit regarding streambed alternation
- Coordination with US Army Corps. of Engineers for Section 404 of the Nationwide Permit.
- Coordination with the Regional Water Quality Control Board (RWQCB) for a section 401 certification/waiver regarding the activities which involve natural drainages.
- Santa Ana Regional Water Quality Control Board (SARWQCB) for coverage with the Caltrans NPDES Permit.
- Possible permit for Section 10 of the Rivers and Harbors Act.

<u>Coastal Zone</u>: This project is neither within state coastal jurisdiction nor within state appealable jurisdiction.

List of Preparers

Hazardous Waste Review by: Mitch Khalilifar	Date <u>3/20/01</u>
Biological Review by: Kedest Ketsela	Date <u>2/20/01</u>
Cultural Review by: Philippe Lapin	Date 1/2/01 & 5/9/01

Attachment A - PEAR Mitigation and Compliance Cost Estimate*

A reporting mechanism for specific mitigation as required by the CTC (estimates may be inappropriate if utilized for other purposes)

Dist.-Co.-Rte.-KP(PM): 12-ORA-57-34.04/36.29 (21.15/22.55) EA: 0C120K

Project Description: This project proposes the construction of a climbing truck lane (northbound only) on SR 57 starting from Lambert Road north to the Orange County/L.A. County Line. Due to the variable terrain along this stretch of SR-57 as well as complicated retaining wall placement.

Person completing form/Dist. Branch: Shay Lynn Harrison, Environmental Planning, Branch B
Project Manager: Pija Ansari
Phone number: 440-4497

Date: April 12, 2001

Date: April 12, 2001				T = 41
		Mitigation		Compliance
	Project	Enviro.	Statutory	Permit &
	Feature ¹	Obligation ²	Require. ³	Agreement ⁴
Fish & Game 1601 Agreement				✓
Coastal Development Permit				
State Lands Agreement				
NPDES Permit				1
COE 404 Permit- Nationwide				1
COE 404 Permit- Individual				
COE Section 10 Permit		=		
COE Section 9 Permit				
Other:				
Noise attenuation				
Special landscaping				
Archaeological				
Biological		4700		
Historical				
Scenic resources				
Wetland/riparian		56		
Other: Hazardous Waste (4.2m)				*
TOTAL (Enter zeros if no cost)	0	\$4,756	0	TBD

Costs are to be reported in \$1,000s.

Costs are to include all costs to complete the commitment including: capital outlay and staff support; cost of right-of-way or easements; long-term
monitoring and reporting, and; any follow-up maintenance.

[•] A copy of the completed form shall be included in the project approval report (Project Report/PSSR), and a copy sent to Headquarters Environmental Program, attention: John Hebner.

¹ Mitigation Caltrans would normally do if not required by a permit or environmental agreement.

² Mitigation Caltrans would not normally do but is required by conditions of a permit or environmental agreement.

³ Mitigation Caltrans would not normally do and is not required by a permit or Enviro. agreement but is required by a law.

⁴ Non-mitigation Caltrans would not normally do but is required by conditions of a permit or agreement.

Attachment M

Right of Way Data Sheet

Note: Alternative 2A is referred as Alternative 3 in the report and plan sheets

To: Gary Slater, Chief Date: June 29, 2001 Project Studies Branch Dist: 12 Co: ORA Route 57NB KP: 34.04/36.29 (PM:21.15/22.55) E.A.: 0C120K - ALTERNATIVE 1 Attn: Hammer Sui Project Description: Congestion Relief - 57NB from Lambert Road to Orange County/Los Angeles County Line. From: YOSHIKO HENSLEE, Chief Right of Way Capital Coordinator Subject: CURRENT ESTIMATED RIGHT OF WAY COSTS We have completed an estimate of the right of way costs for the above referenced project based on maps we received from you on May 16, 2001, and the following assumptions and limiting conditions: The mapping did not provide sufficient detail to determine the limits of the [] 1. right of way required. [] 2. The transportation facilities have not been sufficiently designed so our estimator could determine the damage to any of the remainder parcels affected by the project. Additional right of way requirements are anticipated, but are not defined [] 3. due to the preliminary nature of the early design requirements. [X] 4. As per maps provided. [] 5. We have determined there are no right of way functional involvement's in the proposed project at this time, as designed. Right of Way Lead Time will require a minimum of 18 months after we begin Regular right of way (PYPSCAN node No. 224), necessary environmental clearance has been obtained, and freeway agreements have been approved. From the date of receipt of final right of way requirements (PYPSCAN node No. 265), we will require a minimum of months prior to the date of certification of the project. Right of Way Capital Coordinator YOSHIKO HENSLEE, Chief, R/W P&M Attachments: Right of Way Data Sheet – Page one (always required) [X] Right of Way Data Sheet - All Pages (required when interest in real [X] property is being acquired)

[X]

[]

Utility Information Sheet Railroad Information Sheet

RIGHT OF WAY DATA SHEET

DATE: June 29, 2001 To: Gary Slater, Chief Dist 12 Co ORA Rte 57NB Project Studies Branch KP: 34.04/36.29 (PM: 21.15/22.55) 0C120K EA Attn: Hammer Sui Project Description: Congestion Relief - 57NB From Lambert Road to Orange County/Los Angeles County line. Subject: RIGHT OF WAY DATA - Alternative No. Alternative 1 1. Right of Way Cost Estimate: Annual Current Value Escalation Escalated Value (Future Use) Rate A. Acquisition, including Excess Lands, Damages 5% \$640,000.00 \$530,000.00 And Goodwill 5% \$240,000.00 \$200,000.00 B. Utility Relocation (State Share) % \$ 0.00 \$ 0.00 C. Relocation Assistance % \$ \$ 0.00 0.00 D. Clearance / Demolition % \$ 1,200.00 \$ 1,200.00 E. Title and Escrow Fees % \$ 2,500.00 \$ 2,500.00 F. Developmental Fees (Env. Perm etc) % \$ \$733,700.00 G. Total Current Value (Future Use) \$883,700.00 H. TOTAL ESCALATED VALUE \$0.00 Construction Contract Work 07/04 2. Anticipated Date of Right of Way Certification 3. Parcel Data: RR Involvement's Utilities Dual / Appr Type None 114 -1 X **C&M** Agreement -2 0 3 Α Svc Contract 3 -3 2 B Lic / RR Clauses C -4 0 U5 -7 3 D Misc R/W Work -8 0 E XXXX N/A RAP Displ 3 XXXX N/A Clear / Demo N/A **Const Permits** 5 Total N/A Condemnation Excess 0 No. Excess Parcels Areas: Right of Way 14,023m2 by CYNTHIA HALL Enter PMCS Screens 06/26/01 enter AGRE Screen (Railroad data only)

^{*}TWO (2) OIL WELLS AND ONE (1) PRODUCTS TESTING STATION M&E APPRAISAL REPORT.

EA 0C120K - ALTERNATIVE 1

4. <i>A</i>	Are there any major items of construction contract work? Yes No _X (If yes, explain).			
5	Provide a general description of the right of way and excess lands required (zoning, use, major improvements, critical or sensitive parcels, etc.). No right of way required.			
•	PERMANENT STRUCTURE EASEMENTS AND TEMPORARY CONSTRUCTION EASEMENTS (TCE) WILL BE ACQUIRED FROM PRODUCTIVE NUEVO ENERGY OIL COMPANY (OIL) FIELDS AND ENVIRONMENTALLY SENSITIVE TONNER CREEK PROPERTY FROM THE COUNTY AND/OR CITY. NUEVO ENERGY COMPANY PRIVATE PROPERTY IS CURRENTLY A PRODUCTIVE OIL FIELD THAT CONTAINS NUMEROUS ACTIVE OIL WELLS WITH EXTENSIVE ABOVE GROUND PIPE FACILITIES RUNNING THROUGHOUT AND NEAR STATE ROUTE 57 STRUCTURE. THIS RIGHT OF WAY ESTIMATE PROVIDES FOR RE-CAPPING AND RE-INTRODUCING TWO (2) OIL WELLS AND ONE (1) PRODUCTS TESTING STATION FOR 18 MONTHS FOR STRUCTURE WIDENING/100-150 TON CRANE OPERATIONS. IT IS ANTICIPATED THAT CONSTRUCTION M&E (IE) 100-150 TON CRANE & 10 TON EXCAVATOR WILL BE SITUATED WITHIN AN OIL FIELD ACCESS ROAD AND TONER CANYON CREEK BED AREA. DURING CONSTRUCTION, OIL FIELD ACCESS FOR CONSTRUCTION WILL PROBABLY BE FROM NUEVO ENERGY COMPANY ACCESS GATE AND ROAD NEAR THE STATE ROUTE 57 STRUCTURE.			
•	DAMAGES: THE RE-CAPPING AND RE-INTRODUCTION OF TWO (2) OIL WELLS HAS THE POTENTIAL OF DECREASING THE PRODUCTION RATE IN THE AFTER CONDITION. THIS POTENTIAL LIABILITY HAS NOT BEEN ACCOUNTED FOR IN THIS RIGHT OF WAY DATA SHEET. THERE ARE POTENTIAL UTILITY INVOLVEMENTS CONCERNING AERIAL CONVERSION OF SOUTHERN CALIFORNIA EDISON'S 12KV DISTRIBUTION AND PACIFIC BELL'S FIBER OPTIC TO CLEAR STRUCTURE WIDENING AND CRANE OPERATIONS.			
	Is there an effect on assessed valuation? Yes Not Significant X No (If yes, explain).			
	Are utility facilities or rights of way affected? Yes X No (If yes, attach Utility Information Sheet Exhibit 01-01-05).			
8.	Are Railroad facilities or rights of way affected? Yes No _X (If yes, attach Railroad Information Sheet Exhibit 01-01-06).			
	Were any previously unidentified sites with hazardous waste and / or material found? Yes None Evident X (If yes, attach memorandum per Procedural Handbook Volume 1, Section 101.011)			
10.	Are RAP displacements required? Yes NoX (If yes, provide the following information)			
	No. of single family No. of business/nonprofit			
	No. of multi-family ———— No. of farms			
	Based on Draft/Final Relocation Impact Statement/Study dated it is anticipated that sufficient replacement housing (will / will not) be available without Last Resort Housing.			
11	. Are there material borrow and / or disposal site required? Yes No_X (If yes, explain).			
	. Are there potential relinquishments and/or abandonments? Yes NoX (If yes, explain)			
	Are there any existing and/or potential Airspace Sites? Yes No X (If yes, explain)			
14	Indicate the anticipated Right of Way schedule and lead time requirements. (Discuss if District proposes less than PMCS lead time and / or if significant pressures for project advancement are anticipated).			
	PMCS calculated REG R/W lead time (from parcel maps from R/W Engineering to R/W Appraisals) months18			
	PMCS calculated FINAL R/W lead time (from final maps to R/W to project certification) 14 months.			

5.	Is it anticipated Yes X N	that all Right of Way work will be performed by CALTRANS staff? (If no discuss).	
	Evaluation Pre	pared By:	
	Right of Way:	Name Harry Date 6.29.01	,
	Railroad:	Name Other Date 6-29-01	
	Utilities:	Name Laney Bocarreg Date 4/2 9/01	
		Passemended for Approval:	
		Recommended for Approval:	
		Tosluta I Sender	
		Right of Way Capital Coordinator YOSHIKO HENSLEE, Chief R/W P&M	
op as	inion that the presumptions are r	eviewed this Right of Way Data Sheet and all supporting information. bbable Highest and Best Use, estimated values, escalation rates, and easonable and proper subject to the limiting conditions set forth, and ete and current. KATHY J. ANDERSON, Chief Right of Way Project Coordinator Irvine Office Southern Right of Way Region	

Date

cc: Program Manager Project Manager

UTILITY INFORMATION SHEET

- 1. Name of utility companies involved in project:
- Nuevo Energy
- Torch Energy
- Southern California Gas
- Southern California Edison (SCE)
- Pacific Bell
- Adelphia Communications
- 2. Types of facilities and agreements required:
- Notice to owner to pothole. SCE with utility agreement.
- Notice to owner to relocate. SCE and Pacific Bell with utility agreement.
- 3. Additional information concerning utility involvement's on this project:
- An SCE 12kv aerial distribution line and Pacific Bell aerial communications line may require conversion to underground to clear Caltrans' construction and necessary M&E operations and will require 14-18 months time from conflict letter to owner to actual physical relocation.
- 4. PMCS Input Information

Total estimated cost of State's obligation for Utility relocation on this project:

Unescalated: \$200,000.00

Escalated : \$240,000.00

Utility Involvements					
U4-1	0	U5-7	3		
-2	0	-8	0		
-3	3	-9	3		
-4	0				

Prepared By:

Right of Way Utility Coordinator

6/29/01 Date

R/W ESTIMATOR'S INFORMATION SHEET FOR DEVELOPMENTAL FEES

ORGANIZATION PERMIT REQUESTED FROM: Regional Water Fish and Game	1601 401	ERMIT/SERVICE ED	PERMIT \$1,500.00 \$1,000.00 \$ \$ \$	
TOTAL NUMBER OF PERMITS:	2			
TOTAL DOLLAR AMOUNT OF PERMITS:	\$2,500.00			
Prepared By: Hamy Tambyy R/W ESTIMATOR				
6.29.01 DATE				

	Slater, Chief Studies Branch	Date: June 29, 2001 Dist: 12 Co: ORA Route 57NB KP: 34.04/36.29 (PM:21.15/22.55)		
Attn: Hami	mer Sui	E.A.: OC120K – ALTERNATIVE 2A Project Description: Congestion Relief – 57NB from Lambert Road to Orange County/Los Angeles County Line.		
Rig	SHIKO HENSLEE, Chief ght of Way Capital ordinator			
Subject:	CURRENT ESTIMATED RIGHT	OF WAY COSTS		
based on	completed an estimate of the right maps we received from you on No gooditions:	nt of way costs for the above referenced project May 16, 2001, and the following assumptions		
[] 1.	The mapping did not provid right of way required.	e sufficient detail to determine the limits of the		
[] 2.	The transportation facilities estimator could determine t affected by the project.	The transportation facilities have not been sufficiently designed so our estimator could determine the damage to any of the remainder parcels affected by the project.		
[] 3.	Additional right of way requ due to the preliminary natur	irements are anticipated, but are not defined e of the early design requirements.		
[x] 4.	As per maps provided.			
[] 5.	We have determined there the proposed project at this	are no right of way functional involvement's in time, as designed.		
Right of Way Lead Time will require a minimum of months after we begin Regular right of way (PYPSCAN node No. 224), necessary environmental clearance has been obtained, and freeway agreements have been approved. From the date of receipt of final right of way requirements (PYPSCAN node No. 265), we will require a minimum of months prior to the date of certification of the project.				
		Truin Me. C.		
	to to	Right of Way Capital Coordinator YOSHIKO HENSLEE, Chief, R/W P&M		
Attachme [x	Right of Way Data Sheet – Right of Way Data Sheet – property is being acquired)	Page one (always required) All Pages (required when interest in real		

Date: August 2, 2001 To: Gary Slater, Chief Dist: 12 Co: ORA Route 57NB Project Studies Branch KP: 34.04/36.29 (PM:21.15/22.55) E.A.: 0C120K - ALTERNATIVE 2 Attn: Hammer Sui Project Description: To design a climbing in the Northbound direction of SR-57 Freeway from Lambert Road to approximately 1 km north Of Orange County/Los Angeles County line. From: YOSHIKO HENSLEE, Chief Right of Way Capital Coordinator Subject: CURRENT ESTIMATED RIGHT OF WAY COSTS We have completed an estimate of the right of way costs for the above referenced project based on maps we received from you on July 11, 2001, and the following assumptions and limiting conditions: The mapping did not provide sufficient detail to determine the limits of the [] 1. right of way required. The transportation facilities have not been sufficiently designed so our [] 2. estimator could determine the damage to any of the remainder parcels affected by the project. Additional right of way requirements are anticipated, but are not defined [] 3. due to the preliminary nature of the early design requirements. 4. As per maps provided. [X] We have determined there are no right of way functional involvement's in [] 5. the proposed project at this time, as designed. months after we begin Right of Way Lead Time will require a minimum of 18 Regular right of way (PYPSCAN node No. 224), necessary environmental clearance has been obtained, and freeway agreements have been approved. From the date of receipt of final right of way requirements (PYPSCAN node No. 265), we will require a minimum of months prior to the date of certification of the project. 14 Right of Way Capital Coordinator YOSHIKO HENSLEE, Chief, R/W P&M Attachments: Right of Way Data Sheet - Page one (always required) [x] Right of Way Data Sheet - All Pages (required when interest in real [x] property is being acquired)

Utility Information Sheet

Railroad Information Sheet

[X]

RIGHT OF WAY DATA SHEET

To: Gary Slater, Chief Project Studies Branch

Attn: Hammer Sui

DATE: August 2, 2001

Dist 12 Co ORA Rte 57NB

KP: 34.04/36.29 [PM: 21.15/22.55]

EA 0C120K

Project Description: <u>To design a climbing in the</u> Northbound direction of SR-57 Freeway from Lambert Road to approximately 1 km north Of Orange County/Los Angeles County line.

Subject: RIGHT OF WAY DATA -ALTERNATIVE 2 [Sta.216+70 to Sta.253+76, Layout Sheet L-1 to L-12]

		Current Value (Future Use)		y Cost Estimate:	Right of Way	1. I
\$ 900,000.00	5%	¢780 000 00	s Lands, Damages		The second second	Α.
	_	\$780,000.00			And Goody	
	_	\$200,000.00	re)	cation (State Sha	Utility Relo	В.
5 \$ 0.00	%	\$ 0.00		Assistance	Relocation	C.
\$ 0.00	%	\$ 0.00		/ Demolition	Clearance	D.
\$ 2,500.00	- %	\$ 2,500.00		scrow Fees	Title and E	E.
\$ 3,500.00	%	\$ 3,500.00				F.
\$	%	\$986,000.00	G. Total Current Value (Future Use)			G.
\$1,146,000.00	-		H. TOTAL ESCALATED VALUE			Н.
	_	\$0.00		on Contract Worl	Construction	1.
		07/04	Way Certification	d Date of Right of	Anticipated	2.
				a:	Parcel Date	3.
	nent's	RR Involver	Utilities	Dual / Appr	Type	
X		None	U4 -1 0		1	X
	ment	C&M Agree	-2 0		1	Α
	ct	Svc Contrac	-3 3		3	В
\$ 3,500.00 \$ \$1,146,000.00	ment's	\$ 3,500.00 \$986,000.00 \$0.00 07/04 RR Involver None C&M Agree	Use) JE Way Certification Utilities U4 -1 0 -2 0	scrow Fees ental Fees (Env. ent Value (Future GCALATED VALI on Contract Worl d Date of Right of	Title and Est Developme Total Curre TOTAL EST Construction Anticipated Parcel Date Type	E. F. G. H. I. 2. 3.

U4 -1 0	None	
0110	None	Λ
-2 0	C&M Agreement	
-3 3	Svc Contract	
-4 0	Lic / RR Clauses	
U5 -7 3	-	
-8 0	Misc R/W Work	
-9 3	RAP Displ	N/A
	Clear / Demo	N/A
	Const Permits	N/A
	Condemnation	N/A
	-2 0 -3 3 -4 0 U5 -7 3 -8 0	-2 0

Areas: Right of Way 14,329 sq. meters No. Excess Parcels 0 Excess 0

Enter PMCS Screens 07/26/01 by CYNTHIA HALL
enter AGRE Screen (Railroad data only)

^{*}TWO(2) OIL WELLS AND ONE (1) PRODUCTS TESTING STATION, M&E APPRAISAL REPORT.

(If y	Are there any major items of construction contract work? Yes No _X es, explain).
5.	Provide a general description of the right of way and excess lands required (zoning, use, major improvements, critical or sensitive parcels, etc.). No right of way required.
•	PERMANENT STRUCTURE EASEMENTS, FOOTING EASEMENTS AND TEMPORARY CONSTRUCTION EASEMENTS (TCE) WILL BE ACQUIRED FROM PRODUCTIVE NUEVO ENERGY OIL COMPANY (OIL) FIELDS AND ENVIRONMENTALLY SENSITIVE TONNER CREEK PROPERTY FROM THE COUNTY AND/OR CITY. NUEVO ENERGY COMPANY PRIVATE PROPERTY IS CURRENTLY A PRODUCTIVE OIL FIELD THAT CONTAINS NUMEROUS ACTIVE OIL WELLS WITH EXTENSIVE ABOVE GROUND PIPE FACILITIES RUNNING THROUGHOUT AND NEAR STATE ROUTE 57 STRUCTURE. THIS RIGHT OF WAY ESTIMATE PROVIDES FOR RE-CAPPING AND RE-INTRODUCING TWO (2) OIL WELLS AND ONE (1) PRODUCTS TESTING STATION FOR 18 MONTHS FOR STRUCTURE WIDENING/ CRANE AND EXCAVATION OPERATIONS. IT IS ANTICIPATED THAT CONSTRUCTION M&E (IE) 100-150 TON CRANE 10 TON EXCAVATOR WILL BE SITUATED WITHIN AN OIL FIELD ACCESS ROAD AND TONER CANYON CREEK BED AREA. DURING CONSTRUCTION, OIL FIELD ACCESS FOR CONSTRUCTION WILL PROBABLY BE FROM NUEVO ENERGY COMPANY ACCESS GATE AND ROAD NEAR THE STATE ROUTE 57 STRUCTURE.DAMAGES: THE RE-CAPPING AND RE-INTRODUCTION OF TWO (2) OIL WELLS HAS THE POTENTIAL OF CAUSING THE DECREASE OF THE PRODUCTION RATE IN THE AFTER CONDITION. THIS POTENTIAL LIABILITY HAS NOT BEEN ACCOUNTED FOR IN THIS RIGHT OF WAY DATA SHEET. THERE ARE POTENTIAL UTILITY INVOLVEMENTS CONCERNING AERIAL CONVERSION OF SOUTHERN CALIFORNIA EDISON'S 12KV DISTRIBUTION POWER LINE AND PACIFIC BELL'S FIBER OPTIC LINE TO UNDERGROUND TO CLEAR STRUCTURE WIDENING AND CRANE OPERATIONS.
6.	Is there an effect on assessed valuation? Yes Not Significant
7.	Are utility facilities or rights of way affected? Yes X No (If yes, attach Utility Information Sheet Exhibit 01-01-05).
8.	Are Railroad facilities or rights of way affected? Yes NoX_ (If yes, attach Railroad Information Sheet <i>Exhibit 01-01-06</i>).
9.	Were any previously unidentified sites with hazardous waste and / or material found? Yes——— None Evident X (If yes, attach memorandum per Procedural Handbook <i>Volume 1, Section 101.011</i>)
10.	Are RAP displacements required? Yes No _X _(If yes, provide the following information)
	No. of single familyNo. of business/nonprofit
	No. of multi-family No. of farms
	Based on Draft/Final Relocation Impact Statement/Study datedit is anticipated that sufficient replacement housing (will / will not) be available without Last Resort Housing.
11	. Are there material borrow and / or disposal site required? YesNo_X (If yes, explain).
12	. Are there potential relinquishments and/or abandonments? Yes No X (If yes, explain)
13	. Are there any existing and/or potential Airspace Sites? Yes NoX (If yes, explain)
14	Indicate the anticipated Right of Way schedule and lead time requirements. (Discuss if District proposes less than PMCS lead time and / or if significant pressures for project advancement are anticipated).
	PMCS calculated REG R/W lead time (from parcel maps from R/W Engineering to R/W Appraisals) months18
	PMCS calculated FINAL R/W lead time (from final maps to R/W to project certification) 14 months.

	d that all Right of Way work will be performed by CALTRANS staff? Io (If no discuss).
Evaluation Pre	epared By:
Right of Way:	Name Harry Poutry Date 8.3.0/
Railroad:	Name Total Date 86-01
Utilities:	Name Lancy Bounege Date 1/6/01
	Recommended for Approval:
	Right of Way Capital Coordinator YOSHIKO HENSLEE, Chief R/W P&M

I have personally reviewed this Right of Way Data Sheet and all supporting information. It is my opinion that the probable Highest and Best Use, estimated values, escalation rates, and assumptions are reasonable and proper subject to the limiting conditions set forth, and find this

Data Sheet complete and current.

KATHY J. ANDERSON, Chief Right of Way\Project Coordinator

Irvine Office

Southern Right of Way Region

Date

cc: Program Manager Project Manager

UTILITY INFORMATION SHEET

- 1. Name of utility companies involved in project:
- Nuevo Energy
- Torch Energy
- Southern California Gas
- Southern California Edison (SCE)
- Pacific Bell
- Adelphia Communications
- 2. Types of facilities and agreements required:
- Notice to owner to pothole. SCE with utility agreement.
- Notice to owner to relocate. SCE and Pacific Bell with utility agreement.
- 3. Additional information concerning utility involvement's on this project:
- An SCE 12kv aerial distribution line and Pacific Bell aerial communications line may require conversion to underground to clear Caltrans' construction and necessary M&E operations and will require 14-18 months time from conflict letter to owner to actual physical relocation.
- 4. Additional information concerning utility involvement's on this project:
- 5. PMCS Input Information

Total estimated cost of State's obligation for Utility relocation on this project:

Unescalated: \$200,000.00

Escalated : \$240,000.00

Utility Involvements					
U4-1	0	U5-7	3		
-2	0	-8	0		
-3	3	-9	3		
-4	0				

Prepared By:

Right of Way Utility Coordinator

8/4/01

R/W' ESTIMATOR'S INFORMATION SHEET FOR DEVELOPMENTAL FEES

ORGANIZATION PERMIT REQUESTED FROM: California Dept. of Fish and Game	TYPE OF PERMIT/SERVICE REQUESTED Section 1601	DOLLAR AMOUNT OF PERMIT \$1,500.00
California Regional Quality Control Board	Section 401	\$1,000.00
Orange County Public Facilities & Resource	Permit /Permit	\$1, 0 00.00
		\$ \$
		\$
TOTAL NUMBER OF PERMITS:	3	
TOTAL DOLLAR AMOUNT OF PERMITS:	\$3,500.00	

RIGHT OF WAY DATA SHEET

To: Gary Slater, C	hief		DATE:	June 29, 20	01	
Project Studie	es Branch		Dist 12		Rte 57N	
Attn: Hammer Sui	i			04/36.29 (PM 0C120K	. 21.13/2	2.55)
			Project	Description: 0	Congestic	on Relief – 57NB
					to Orang	e County/Los
			Angeles	County line.		
Subject: RIGHT (OF WAY DATA -	Alternative N	o. Alte	ernative 2A		
					E .	
1. Right of Way C	Cost Estimate:					
o ,					Annual	
				Surrent Value		
				(Future Use)	Rate	Value
 A. Acquisition, ir And Goodwill 		Lands, Dama	iges \$!	924,000.00	5%	\$1,124,000.00
B. Utility Relocat)		200,000.00	5%	\$ 240,000.00
C. Relocation As	ssistance		\$	0.00	%	\$ 0.00
D. Clearance / D	Demolition		\$	0.00	%	\$ 0.00
E. Title and Escr	row Fees		\$	2,500.00	%	\$ 2,500.00
	tal Fees (Env. Pe		\$	2,500.00	%	\$ 2,500.00
	: Value (Future U: ALATED VALUE	,	\$	1,129,000,00	%	\$1,369,000.00
	Contract Work	•	\$	0.00		
	ate of Right of W	Vay Certificati		07/04	-	
						_
3. Parcel Data:						
Туре	Dual / Appr	Utilities		RR Involver	nent's	
Χ		U4 -1 0		None		X
A 3	*1	-2 0		C&M Agree		
B 4		-3 <u>3</u> -4 0		Svc Contrac Lic / RR Cla		
D		U5 -7 3		21071111010	4000	
E XXXX		-8 0		Misc R/W W	/ork	
F XXXX		-9 3	_	RAP Displ		N/A
	_			Clear / Dem		N/A
Total	7			Const Perm		N/A
				Condemnat	ion	N/A
Areas: Right of V	Areas: Right of Way 23,547 No. Excess Parcels 0 Excess 0					
Enter PMCS Scre			<u>b</u>	y CYNTHIA F		
enter AGRE Scree	en (Railroad data	a only)			by	•

^{*}TWO (2) OIL WELLS AND ONE (1) PRODUCTS TESTING STATION, M&E APPRAISAL REPORT.

EA 0C120K - ALTERNATIVE 2A

4.	Are there any major items of construction contract work? Yes No _X (If yes, explain).
5.	Provide a general description of the right of way and excess lands required (zoning, use, major improvements, critical or sensitive parcels, etc.). No right of way required.
•	PERMANENT STRUCTURE EASEMENTS, FOOTING EASEMENTS AND TEMPORARY CONSTRUCTION EASEMENTS (TCE) WILL BE ACQUIRED FROM BREA SCHOOL DISTRICT, PRODUCTIVE NUEVO ENERGY OIL COMPANY (OIL) FIELDS AND ENVIRONMENTALLY SENSITIVE TONNER CREEK PROPERTY FROM THE COUNTY/ CITY. NUEVO ENERGY COMPANY PRIVATE PROPERTY IS CURRENTLY A PRODUCTIVE OIL FIELD THAT CONTAINS NUMEROUS ACTIVE OIL WELLS WITH EXTENSIVE ABOVE GROUND PIPE FACILITIES RUNNING THROUGHOUT AND NEAR STATE ROUTE 57 STRUCTURE. THIS RIGHT OF WAY ESTIMATE PROVIDES FOR RE-CAPPING AND RE-INTRODUCING TWO (2) OIL WELLS AND ONE (1) PRODUCTS TESTING STATION FOR 18 MONTHS FOR STRUCTURE WIDENING/100-150 TON CRANE OPERATIONS AND TEN (10) TON EXCAVATION OPERATIONS. IT IS ANTICIPATED THAT CONSTRUCTION M&E (IE) 100-150 TON CRANE & 10 TON EXCAVATOR WILL BE SITATED WITHIN AN OIL FIELD ACCESS ROAD AND TONNER CANYON CREEK BED AREA. DURING CONSTRUCTION, OIL FIELD ACCESS FOR CONSTRUCTION WILL PROBABLY BE FROM NUEVO ENERGY COMPANY ACCESS GATE AND ROAD NEAR THE STATE ROUTE 57 STRUCTURE. DAMAGES: THE RE-CAPPING AND RE-INTRODUCTION OF TWO (2) OIL WELLS HAS THE POTENTIAL OF CAUSING THE DECREASE OF THE PRODUCTION RATE IN THE AFTER CONDITION. THIS POTENTIAL LIABILITY HAS NOT BEEN ACCOUNTED FOR IN THIS RIGHT OF WAY DATA SHEET. THERE ARE POTENTIAL UTILITY INVOLVEMENTS CONCERNING AERIAL CONVERSION OF SOUTHERN CALIFORNIA EDISON'S 12KV DISTRIBUTION POWER LINE AND PACIFIC BELL'S FIBER OPTIC LINE TO UNDERGROUND TO CLEAR STRUCTURE WIDENING AND CRANE OPERATIONS.
6.	Is there an effect on assessed valuation? Yes Not SignificantX No (If yes, explain).
7.	Are utility facilities or rights of way affected? Yes X No (If yes, attach Utility Information Sheet Exhibit 01-01-05).
8.	Are Railroad facilities or rights of way affected? Yes No _X (If yes, attach Railroad Information Sheet <i>Exhibit 01-01-06</i>).
9.	Were any previously unidentified sites with hazardous waste and / or material found? Yes None Evident X (If yes, attach memorandum per Procedural Handbook Volume 1, Section 101.011)
10.	Are RAP displacements required? Yes NoX (If yes, provide the following information)
	No. of single family No. of business/nonprofit
	No. of multi-family ———— No. of farms
	Based on Draft/Final Relocation Impact Statement/Study dated it is anticipated that sufficient replacement housing (will / will not) be available without Last Resort Housing.
11.	Are there material borrow and / or disposal site required? Yes No_X_ (If yes, explain).
12.	Are there potential relinquishments and/or abandonments? Yes No _X (If yes, explain)
13.	Are there any existing and/or potential Airspace Sites? Yes No_X (If yes, explain)
14.	Indicate the anticipated Right of Way schedule and lead time requirements. (Discuss if District proposes less than PMCS lead time and / or if significant pressures for project advancement are anticipated).
	PMCS calculated REG R/W lead time (from parcel maps from R/W Engineering to R/W Appraisals) months18
	PMCS calculated FINAL R/W lead time (from final maps to R/W to project certification) 14 months.

15. Is it anticipated that all Right of Way work will be performed by CALTRANS staff? Yes X No (If no discuss).
Evaluation Prepared By:
Right of Way: Name Hony Poutry Date 6.29.01
Railroad: Name Other Date (29-01
Utilities: Name vanay bocansque Date 6/29/61
Recommended for Approval:
Cychile Fende
Right of Way Capital Coordinator OSHIKO HENSLEE, Chief R/W P&M
I have personally reviewed this Right of Way Data Sheet and all supporting information. It is my opinion that the probable Highest and Best Use, estimated values, escalation rates, and assumptions are reasonable and proper subject to the limiting conditions set forth, and find this
Data Sheet complete and current.
Mahy Maler
KATHY J. ANDERSON, Chief
Right of Way Project Coordinator
Irvine Office Southern Right of Way Region
Southern Right G. Way Region
Date

cc: Program Manager Project Manager

(1 (1

EA 0C120K - ALTERNATIVE 2A

UTILITY INFORMATION SHEET

- 1. Name of utility companies involved in project:
- Nuevo Energy
- Torch Energy
- Southern California Gas
- Southern California Edison (SCE)
- Pacific Bell
- Adelphia Communications
- 2. Types of facilities and agreements required:
- Notice to owner to pothole. SCE with utility agreement.
- Notice to owner to relocate. SCE and Pacific Bell with utility agreement.
- 3. Additional information concerning utility involvement's on this project:
- An SCE 12kv aerial distribution line and Pacific Bell aerial communications line may require conversion to underground to clear Caltrans' construction and necessary M&E operations and require 14-18 months time from conflict letter to owner to actual physical relocation.
- 4. PMCS Input Information

Total estimated cost of State's obligation for Utility relocation on this project:

Unescalated: \$200,000.00

Escalated : \$240,000.00

Utility Involvements			
U4-1	0	U5-7	3
-2	0	-8	0
-3	3	-9	3
-4	0		

Prepared By:

Right of Way Utility Coordinated

<u>6/29/01</u> Date

R/W ESTIMATORS INFORMATION SHEET FOR DEVELOPMENTAL FEES

ORGANIZATION PERMIT REQUESTED FROM:	TYPE OF PERMIT/SERVICE REQUESTED	DOLLAR AMOUNT OF PERMIT \$
Regional Water Fish and Game	1601 401	\$1,500.00 \$1,000.00 \$ \$
TOTAL NUMBER OF PERMITS: TOTAL DOLLAR AMOUNT OF PERMITS:	\$2,500.00	
Prepared By: Howy Sutoni R/W ESTMATOR		
6.29.01 DATE		

To: Gary Slater, Chief Date: August 2, 2001 Dist: 12 Co: ORA Route 57NB Project Studies Branch KP: <u>34.04/36.29</u> (PM:<u>21.15/22.55</u>) E.A.: 0C120K - ALTERNATIVE 4 Attn: Hammer Sui Project Description: To design a climbing in the Northbound direction of SR-57 Freeway from Lambert Road to approximately 1 km north Of Orange County/Los Angeles County line. From: YOSHIKO HENSLEE, Chief Right of Way Capital Coordinator Subject: CURRENT ESTIMATED RIGHT OF WAY COSTS We have completed an estimate of the right of way costs for the above referenced project based on maps we received from you on July 11, 2001, and the following assumptions and limiting conditions: [] The mapping did not provide sufficient detail to determine the limits of the 1. right of way required. The transportation facilities have not been sufficiently designed so our [] 2. estimator could determine the damage to any of the remainder parcels affected by the project. Additional right of way requirements are anticipated, but are not defined [] 3. due to the preliminary nature of the early design requirements. As per maps provided. [x] 4. [] 5. We have determined there are no right of way functional involvement's in the proposed project at this time, as designed. **Right of Way Lead Time** will require a minimum of 18 months after we begin Regular right of way (PYPSCAN node No. 224), necessary environmental clearance has been obtained, and freeway agreements have been approved. From the date of receipt of final right of way requirements (PYPSCAN node No. 265), we will require a minimum of 14 months prior to the date of certification of the project. Right of Way Capital Coordinator YOSHIKO HENSLEE, Chief, R/W P&M Attachments: Right of Way Data Sheet – Page one (always required) [x] Right of Way Data Sheet – All Pages (required when interest in real [X] property is being acquired)

Utility Information Sheet

Railroad Information Sheet

[X]

Excess

by CYNTHIA HALL

RIGHT OF WAY DATA SHEET

To: Gary Slater, Chief DATE: August 2, 2001 **Project Studies Branch** Dist 12 Co ORA Rte 57NB KP: 34.04/36.29 [PM: 21.15/22.55] Attn: Hammer Sui 0C120K EΑ Project Description: To design a climbing in the Northbound direction of SR-57 Freeway from Lambert Road to approximately 1 km north Of Orange County/Los Angeles County line. Subject: RIGHT OF WAY DATA -ALTERNATIVE 4 [Sta.216+70 to Sta.253+40, Layout Sheet L-1 to L-12; From Sta.235+40 to Sta.253+76 Layout Sheet L-6, L-8 through L-12].] 1. Right of Way Cost Estimate: Annual Current Value Escalation Escalated (Future Use) Rate Value A. Acquisition, including Excess Lands, Damages 5% \$ 900,000.00 \$780,000.00 And Goodwill % \$ 240,000.00 \$200,000.00 B. Utility Relocation (State Share) % \$ 0.00 0.00 C. Relocation Assistance \$ % \$ D. Clearance / Demolition 0.00 0.00 2,500.00 % \$ 2,500.00 E. Title and Escrow Fees % \$ 3,500.00 F. Developmental Fees (Env. Perm etc) 3,500.00 % \$986,000.00 G. Total Current Value (Future Use) \$ H. TOTAL ESCALATED VALUE \$1,146,000.00 I. Construction Contract Work \$0.00 2. Anticipated Date of Right of Way Certification 07/04 Parcel Data: Utilities RR Involvement's Type Dual / Appr X U4 -1 0 None Α -2 0 **C&M** Agreement 1 В 3 -3 3 Svc Contract C Lic / RR Clauses -4 0 D U5 -7 3 E XXXX -8 0 Misc R/W Work -9 3 RAP Displ N/A XXXX N/A Clear / Demo **Const Permits** Total N/A Condemnation N/A

Areas: Right of Way 14,329 sq. meters No. Excess Parcels 0

07/26/01

Enter PMCS Screens

enter AGRE Screen (Railroad data only)

^{*}TWO(2) OIL WELLS AND ONE (1) PRODUCTS TESTING STATION, M&E APPRAISAL REPORT.

EA 0C120K

ALTERNATIVE 2

	Are there any major items of construction contract work? Yes No _X
5.	Provide a general description of the right of way and excess lands required (zoning, use, major improvements, critical or sensitive parcels, etc.). No right of way required.
•	PERMANENT STRUCTURE EASEMENTS, FOOTING EASEMENTS, AND TEMPORARY CONSTRUCTION EASEMENTS (TCE) WILL BE ACQUIRED FROM PRODUCTIVE NUEVO ENERGY OIL COMPANY (OIL) FIELDS AND ENVIRONMENTALLY SENSITIVE TONNER CREEK PROPERTY FROM THE COUNTY AND/OR CITY. NUEVO ENERGY COMPANY PRIVATE PROPERTY IS CURRENTLY A PRODUCTIVE OIL FIELD THAT CONTAINS NUMEROUS ACTIVE OIL WELLS WITH EXTENSIVE ABOVE GROUND PIPE FACILITIES RUNNING THROUGHOUT AND NEAR STATE ROUTE 57 STRUCTURE. THIS RIGHT OF WAY ESTIMATE PROVIDES FOR RE-CAPPING AND RE-INTRODUCING TWO (2) OIL WELLS AND ONE (1) PRODUCTS TESTING STATION FOR 18 MONTHS FOR STRUCTURE WIDENING/CRANE AND EXCAVATION OPERATIONS. IT IS ANTICIPATED THAT CONSTRUCTION M&E (IE) 100-150 TON CRANE & 10 TON EXCAVATOR WILL BE SITUATED WITHIN AN OIL FIELD ACCESS ROAD AND TONER CANYON CREEK BED AREA. DURING CONSTRUCTION, OIL FIELD ACCESS FOR CONSTRUCTION WILL PROBABLY BE FROM NUEVO ENERGY COMPANY ACCESS GATE AND ROAD NEAR THE STATE ROUTE 57 STRUCTURE.DAMAGES: THE RE-CAPPING AND RE-INTRODUCTION OF TWO (2) OIL WELLS HAS THE POTENTIAL OF CAUSING THE DECREASE OF THE PRODUCTION RATE IN THE AFTER CONDITION. THIS POTENTIAL LIABILITY HAS NOT BEEN ACCOUNTED FOR IN THIS RIGHT OF WAY DATA SHEET. THERE ARE POTENTIAL UTILITY INVOLVEMENTS CONCERNING AERIAL CONVERSION OF SOUTHERN CALIFORNIA EDISON'S 12KV DISTRIBUTION POWER LINE AND PACIFIC BELL'S FIBER OPTIC LINE TO UNDERGROUND TO CLEAR STRUCTURE WIDENING AND CRANE OPERATIONS.
6.	Is there an effect on assessed valuation? Yes Not Significant
7.	Are utility facilities or rights of way affected? Yes X No (If yes, attach Utility Information Sheet Exhibit 01-01-05).
8.	Are Railroad facilities or rights of way affected? Yes No_X (If yes, attach Railroad Information Sheet <i>Exhibit 01-01-06</i>).
9.	Were any previously unidentified sites with hazardous waste and / or material found? Yes——— None Evident X (If yes, attach memorandum per Procedural Handbook <i>Volume 1, Section 101.011</i>)
10.	Are RAP displacements required? Yes No _X(If yes, provide the following information)
	No. of single familyNo. of business/nonprofit
	No. of multi-family No. of farms
	Based on Draft/Final Relocation Impact Statement/Study datedit is anticipated that sufficient replacement housing (will / will not) be available without Last Resort Housing.
11.	Are there material borrow and / or disposal site required? YesNoX (If yes, explain).
12.	Are there potential relinquishments and/or abandonments? Yes No_X (If yes, explain)
13.	Are there any existing and/or potential Airspace Sites? Yes No X (If yes, explain)
14.	Indicate the anticipated Right of Way schedule and lead time requirements. (Discuss if District proposes less than PMCS lead time and / or if significant pressures for project advancement are anticipated).
	PMCS calculated REG R/W lead time (from parcel maps from R/W Engineering to R/W Appraisals) months18
	PMCS calculated FINAL R/W lead time (from final maps to R/W to project certification) 14 months.

15. Is it anticipated that all Right of Way work will be performed by CALTRANS staff? Yes X No (If no discuss).
Evaluation Prepared By:
Right of Way: Name Hony Contray Date 8.3.0
Railroad: Railroad: Name Name Date 8-6-0
Utilities: Name <u>Lancy bocure</u> pate \$/6/01
Recommended for/Approvat?
For la le
Right of Way Capital Coordinator
YOSHIKO HENSLEE Chief R/W P&M

I have personally reviewed this Right of Way Data Sheet and all supporting information. It is my opinion that the probable Highest and Best Use, estimated values, escalation rates, and assumptions are reasonable and proper subject to the limiting conditions set forth, and find this

Data Sheet complete and current.

KATHY JANDERSON, Chief Right of Way Project Coordinator

Irvine Office

Southern Right of Way Region

Date

cc: Program Manager Project Manager

UTILITY INFORMATION SHEET

- 1. Name of utility companies involved in project:
- Nuevo Energy
- Torch Energy
- Southern California Gas
- Southern California Edison (SCE)
- Pacific Bell
- Adelphia Communications
- 2. Types of facilities and agreements required:
- Notice to owner to pothole. SCE with utility agreement.
- Notice to owner to relocate. SCE and Pacific Bell with utility agreement.
- 3. Additional information concerning utility involvement's on this project:
- An SCE 12kv aerial distribution line and Pacific Bell aerial communications line may require conversion to underground to clear Caltrans' construction and necessary M&E operations and will require 14-18 months time from conflict letter to owner to actual physical relocation.
- 4. Additional information concerning utility involvement's on this project:
- 5. PMCS Input Information

Total estimated cost of State's obligation for Utility relocation on this project:

Unescalated: \$200,000.00

Escalated : \$240,000.00

Utility Involvements			
U4-1	0	U5-7	3
-2	0	-8	0
-3	3	-9	3
-4	0		

Prepared By:

Right of Way Utility Coordinator

Date

8/6/01

R/W' ESTIMATOR'S INFORMATION SHEET FOR DEVELOPMENTAL FEES

ORGANIZATION	TYPE OF PERMIT/SERVICE	DOLLAR AMOUNT OF
PERMIT REQUESTED FROM:	REQUESTED	PERMIT
California Dept. of Fish and Game	Section 1601	\$1,500.00
California Regional Quality Control		
Board	Section 401	\$1,000.00
Orange County Public Facilities &		
Resource	Permit /Permit	\$1,000.00
		\$
		\$
		\$
TOTAL NUMBER OF PERMITS:	3	
TOTAL DOLLAR AMOUNT OF		
PERMITS:	\$3,500.00	