



COMMENTS WITH RESPONSES

TO

C325 - WILLOW STATION TO OCEAN BLVD.

60% REVIEW

NOVEMBER 17, 1986



Southern California Rail Consultants

REVIEW COMMENTS

DATE 11/4/86  
SHEET 1 OF 10

VIEWER George Poli / C.L. Vollman ORGANIZATION & DIVISION ROLF JENSEN & ASSOCIATES, INC.

FINAL DESIGN

SUBMITTAL C325: WILLOW STATION TO OCEAN BOULEVARD; 60%

PRELIMINARY ENGINEERING

| EF O. | PAGE NO. | DRAWING NO./ SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION     |
|-------|----------|----------------------------|--|---------------------|
| 1     | 35       | UT-1109                    | 8" CI LBWD on West side of Long Beach Blvd should connect into 8" CI LBWD in 20th St. per Long Beach Water Dept. Map H/15.   | OK <u>RM</u>        |
| 2     | 45       | UT-1177                    | Long Beach Water Dept Map H/11 indicates the water main in 9th Street West of Long Beach Blvd. as 6" C.I.  | Being taken care of |
| 3     | 47       | UT-1179                    | Long Beach Water Dept. Map H/10 indicates a fire hydrant on the east side of Long Beach Blvd. south of 7th Street and before alleyway fire hydrant shown on UT-1180. | See Response above. |
| 1     |          |                            |  |                     |

**REVIEW COMMENTS**

DATE 11/4/86  
SHEET 2 OF 10

VIEWER George Pili / C.L. Vollman ORGANIZATION & DIVISION ROLF JENSEN & ASSOCIATES, INC.

FINAL DESIGN

INITIAL C325: WILLOW STATION TO OCEAN BOULEVARD ; 60%

PRELIMINARY ENGINEERING

| REF. | PAGE NO. | DRAWING NO./ SPEC. SECTION | COMMENTS BY REVIEWER  | RESPONSE/ACTION   |
|------|----------|----------------------------|---|---|
| 4    |          | CIVIL                      | CURB MODIFICATIONS SHOULD SHOW HANDICAPPED ACCESS RAMPS @ CORNERS NEAR THE MAIN ENTRANCES TO STATIONS.  | Will show BM  |
| 5    |          | CIVIL                      | OUTLINES OF SAFETY WALKS SHOULD BE INDICATED ON DRAWINGS. ALSO, GRADE WILL REQUIRE SOME SORT OF PREPARATION FOR SAFETY WALK.                        | To discuss<br>No median strip s/o 7th - must unload into the street.<br>Will refer to FLS Committee |
| 6    |          | CIVIL                      | EMERGENCY EXITS FROM STATIONS MUST LEAD TO A PUBLIC WAY (UBC:3301-b) THEY SHOULD BE INDICATED ON DRAWINGS SINCE GRADE PREPARATION WILL BE REQUIRED. | To discuss<br>See landscape package for details   |
| 7    | 23       | RW-1100                    | "Beauty" should be "Beautty"  | OK BM   |
| 2    |          |                            |   |   |

EV  
Maya  
flag  
stop  
for  
of  
center

**S|C|R|C**

**Southern California Rail Consultants**

**REVIEW COMMENTS**

DATE 11/4/86  
SHEET 3 OF 10

ENGINEER George Poli / C.L. Vollman ORGANIZATION & DIVISION ROLF JENSEN & ASSOCIATES, INC.

FINAL DESIGN

PROJECT C325: WILLOW STATION TO OCEAN BOULEVARD ; 60%

PRELIMINARY ENGINEERING

| REF. | PAGE NO. | DRAWING NO./ SPEC. SECTION | COMMENTS BY REVIEWER  | RESPONSE/ACTION                  |
|------|----------|----------------------------|---|----------------------------------|
|      | 0100-1   | SPEC'S.                    | 01010 - 1.1 : PROVISIONS SHOULD INCLUDE A DESCRIPTION FOR INSTALLATION OF SAFETY WALKS & DEFINED EXIT PATHS TO PUBLIC WAYS. | WILL ADD STATEMENT TO SPECS. NYA |
|      |          |                            |   |                                  |
| 3    |          |                            | Next comment #100   |                                  |



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REVIEW COMMENTS

DATE 11/4/86 SHEET 4 OF 10

REVIEWER L. Garside ORGANIZATION & DIVISION Project Integration
SUBMITTAL Willow Sta. to Ocean Blvd. 60% Review (C325) Specs.

FINAL DESIGN [checked]

PRELIMINARY ENGINEERING [unchecked]

Table with 4 columns: REF. NO., PAGE NO., DRAWING NO. SPEC. SECTION, COMMENTS BY REVIEWER, RESPONSE/ACTION. Contains 10 rows of review comments and responses.



Southern California Rail Consultants

REVIEW COMMENTS

DATE 11/4/86

SHEET 5 OF 10

REVIEWER A. Garside ORGANIZATION & DIVISION Project Integration

FINAL DESIGN [X]

SUBMITTAL Willow Sta. to Ocean Blvd. 60% Review (C325) Specs.

PRELIMINARY ENGINEERING [ ]

| REF. NO. | PAGE NO.     | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER  | RESPONSE/ACTION                          |
|----------|--------------|---------------------------|---|--|
| 106      | 2450-11      | 1.6 C                     | Please remove reference to Commission furnished items here or add section 01019 in front  | Will Add SECTION 01019                   |
| 107      | 2452-1<br>#2 |                           | Delete reference to section 02458 - "Track Appurtenances and other Track Material or add it to these contract documents. Also, our guide specs, simply calls section 02458 "BALCAST". | Will Add SECTION 02458 NYI               |
| 108      | 2452-7       | 3.7.1                     | Please make sure that all sections referenced in this paragraph are indeed a part of these contract documents.  | DONE NYI                                 |
| 109      | 2            | 1.3.1                     | Section 01412 is not "Quality Control" it's usually "Testing Laboratory. What abt 1453?   | SECTION 01453 COVERS QUALITY CONTROL NYI |
| 5        |              |                           |   |  |



**Southern California Rail Consultants**

**REVIEW COMMENTS**

DATE 11/4/86  
SHEET 6 OF 10

REVIEWER L. Garside ORGANIZATION & DIVISION Project Integration FINAL DESIGN   
SUBMITTAL Willow Sta. to Ocean Blvd. 60% Review PRELIMINARY ENGINEERING   
(C325) Specs.

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER  | RESPONSE/ACTION   |
|----------|----------|---------------------------|---|-------------------|
| 110      | General  |                           | You should add a section for "Tree Relocation" (029) see guide specs.   | Will Do <u>NY</u> |
| 111      | General  |                           | You should add section 22528 "Concrete Curbs, Gutters and Sidewalks" which is available from the guide specs.       | Will Do <u>NY</u> |
| 112      | General  |                           | You should add a modified version of section 02875 "Face walls and Tree Wells, also available from the guide specs. | Will Do <u>NY</u> |
| 6        |          |                           |   |                   |



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REVIEW COMMENTS

DATE 10/4/20 SHEET 7 OF 10

REVIEWER L. Garside ORGANIZATION & DIVISION Project Integration FINAL DESIGN [X]
SUBMITTAL Willow Sta. to Ocean Blvd. 60% Review (C325) drawings PRELIMINARY ENGINEERING [ ]

Table with 4 columns: REF. NO., PAGE NO., DRAWING NO. SPEC. SECTION, COMMENTS BY REVIEWER, RESPONSE/ACTION. Contains handwritten review notes and responses for items 113, 114, 115, 116, and 7.





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REVIEW COMMENTS

DATE 10/4/96 SHEET 8 OF 10

REVIEWER L. Garside ORGANIZATION & DIVISION Project Integration

FINAL DESIGN [X]

SUBMITTAL Willow Sta. to Ocean Blvd. 60% Review (C325) drawings

PRELIMINARY ENGINEERING [ ]

Table with 4 columns: REF. NO., PAGE NO., DRAWING NO. SPEC. SECTION, COMMENTS BY REVIEWER, RESPONSE/ACTION. Contains handwritten entries for items 117-122 and a final comment #301.





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REVIEW COMMENTS

DATE 11/4/86  
SHEET 10 OF 10

REVIEWER J. Yen  
SUBMITTAL C325 - 60%

ORGANIZATION & DIVISION Planning & Dna., Project Integration

FINAL DESIGN

PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION               | COMMENTS BY REVIEWER  | RESPONSE/ACTION              |
|----------|----------|---|---|------------------------------|
| 302      |          | SE-1100, 1102, 1104, 1106 & 1108        | Hill street station has one ramp on one end & one stair on other end. Platform foundation drawing shows ramp on both ends. please correct it.   | WILL CORRECT AS REQUIRED. RM |
| 303      |          | SE-1100.                                | Per CE-1113 LRT plan & profile, T/R IS at 0.080% slope which should be the slope of Hill street station platform. Please change the platform slope -1.00% in platform foundation elevation. | WILL CORRECT RM              |
| 304      |          | SE-1101, 1103, 1105, 1107 & 1109, 1111. | Electrical opening is shown as 3'-5" x 1'-7" in this drawing and shown as 4'-1" x 1'-7" in dwg. SE-1113. Please reconcile.  | WILL DO RM                   |
| 305      |          | SE-1102, 1104, 1106 & 1108, 1110        | Similar to comment # 303, station slope is not -1.00%. Please revise.   | WILL CORRECT RM              |
| 10       | 306      | SE-1112                                 | 2 - 3/4" rigid conduits are blocking the access opening. please revise.   | WILL REVIEW/RECONCILE. RM    |



Southern California Rail Consultants

REVISED

NOV 29 1986

REVIEW COMMENTS

DATE 11/3/86 SHEET OF

REVIEWER L. WELDON ORGANIZATION & DIVISION LACTC Program Control SUBMITTAL C325 60% submittal review

FINAL DESIGN PRELIMINARY ENGINEERING

Table with 5 columns: REF. NO., PAGE NO., DRAWING NO. SPEC. SECTION, COMMENTS BY REVIEWER, RESPONSE/ACTION. Contains handwritten entries for drawing 0311 regarding Gantt chart schedule and CPM schedule.



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REVIEW COMMENTS

DATE 10/7/86  
SHEET 1 OF 1

VIEWER J.T. BUMATAY ORGANIZATION & DIVISION PIE  
SUBMITTAL C 325 PRE 60% FINAL DESIGN ( PRELIMINARY ENGINEERING (

| REF NO. | PAGE NO. | DRAWING NO./ SPEC. SECTION | COMMENTS BY REVIEWER  | RESPONSE/ACTION                  |
|---------|----------|----------------------------|---|----------------------------------|
| 1       |          | UT 1141<br>THRU<br>1167    | 1. OCS SUPPORT NOT SHOWN ON SOME AREAS.   | WILL REVIEW & SHOW IF MISSING BM |
|         |          |                            | 2. OCS SUPPORTS SHALL BE ALIGNED WITH STREET LIGHT POLE WHERE PRACTICAL, MAINTAINING THE 120 FT MAXIMUM SPACING.  | OK BM                            |
|         |          |                            | 3. OCS SUPPORTS AT TURNOUTS SHALL BE PROVIDED BETWEEN P1 AND P5.  | OK BM                            |
| 2       |          | CE 1126<br>THRU<br>1150    | 4. AT TURNOUT BETWEEN 4TH AND 3RD STREETS, OCS SUPPORTS SHALL BE LOCATED BETWEEN P1 AND P5 AT EACH END OF CROSS OVER, AND ADJUST OTHER SUPPORTS TO MAINTAIN A MAXIMUM DISTANCE OF 120 FT. | WILL DO BM                       |
| 12      |          |                            | PADS OF REVIEW COMMENTS SHEETS AVAILABLE AT SCRC'S OFFICE SERVICES  |                                  |





Southern California Rail Consultants

REVIEW COMMENTS

DATE 11-1-86

SHEET 1 OF 11

REVIEWER S. Ralph J. Casimiro ORGANIZATION & DIVISION Technical Services

FINAL DESIGN [ ]

SUBMITTAL Willow Sta. to Green Blvd. - E325 (60% Review)

PRELIMINARY ENGINEERING [ ]

| REF. NO. | PAGE NO. | HAVING NO. SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION |
|----------|----------|--------------------------|--|-----------------|
| 1        | 1        | Table of contents        | Section 01453; Change Title to read: "Quality Control Requirements"                          | DONE NY         |
| 2        |          | 01200                    | # 3.1.B; 1st line: The word "Manager" misspelled.  | CORRECTED NY    |
| 2        |          | 01200                    | # 3.1.D; Item 8 through 15: Change the word "Contractor will" to "Contractor shall"          | DONE NY         |
| 3        |          | 01200                    | (a) <sup>change</sup> <del>Correct</del> # numbering: 3.4 & 3.5 To "3.2 & 3.3"               | DONE NY         |
|          |          |                          | (b) # 3.2.B: Word "personnel" misspelled; and change "Article 3.3C" to read "Paragraph 3.1C" | DONE NY         |

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# Southern California Rail Consultants

## REVIEW COMMENTS

DATE 11-1-85

SHEET 2 OF 11

REVIEWER Si Ralph J. Casimiro ORGANIZATION & DIVISION Technical Services

FINAL DESIGN

SUBMITTAL Willow Sta. to Ocean Blvd. - 325 (CO<sup>2</sup> Revised)

PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION |
|----------|----------|---------------------------|--|-----------------|
| 3        | 3        | 01300                     | <del>#</del> 3.2C : Change to read:<br><br>C. The marks have the following meanings:<br><br>1. ACCEPTED is an acceptance, and means that the illustration and description appears to conform to the respective requirements of the Contract Documents.<br><br>2. ACCEPTED AS NOTED is an acceptance, and means that the illustration and description appears to conform to the respective requirements of the Contract Documents after changes in recognition of the reviewers' comments. Submittals so marked need not be resubmitted.<br><br>3. REVISE AND RESUBMIT means that the submittal is unacceptable and shall be revised and resubmitted.<br><br>4. NOT ACCEPTED means that the submittal is not acceptable and that a new submittal in accordance with the Contract Documents shall be made. | DONE NY         |
| 4        | A        | 01340                     | <del>#</del> 3.1 D : Revise to read:<br>" Submit a final corrected, reproducible copia of as-built Contract Drawing showing the work as actually installed, placed, erected, and applied.  | DONE NY         |
| 15       |          |                           |  |                 |





Southern California Rail Consultants

REVIEW COMMENTS

DATE 11-4-86 SHEET 3 OF 11

REVIEWER Sr. Ralph J. Casimiro ORGANIZATION & DIVISION Technical Services FINAL DESIGN [ ] SUBMITTAL Willow Sta. to Ocean Blvd. - @ 325 (60% Review) PRELIMINARY ENGINEERING [ ]

Table with 4 columns: REF. NO., PAGE NO., DRAWING NO. SPEC. SECTION, COMMENTS BY REVIEWER, RESPONSE/ACTION. Contains 12 rows of review comments and responses.



# Southern California Rail Consultants

## REVIEW COMMENTS

DATE 11-21-85  
SHEET 4 OF 11

REVIEWER A. Ralph / J. Casinero ORGANIZATION & DIVISION Technical Services

FINAL DESIGN

SUBMITTAL Willow St. to Ocean Blvd. - C-225 (CC) Review

PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. / SPEC. SECTION | COMMENTS BY REVIEWER  | RESPONSE/ACTION |
|----------|----------|-----------------------------|---|-----------------|
| 13       | 5        | C1576                       | <p>Add # 3.6 DE TOUR TRAFFIC STRIPING</p> <p>Existing traffic striping, where temporary striping is provided, shall be removed by sandblasting. Covering (painting over) these shall not be permitted. (C-215 addendum)</p>                         | DONE NY         |
| 14       | 1        | C1590                       | <p>(a) Section C1590: - Change title heading to read: "Field Office". Construction vehicles is being deleted, cause it's no longer provided (C-315 addendum)</p> <p>(b) #s 1.2, 1.3, and 1.4 to be deleted; - vehicles requirements not needed.</p> | DONE NY         |
| 15       | 2        | C1720                       | <p># 3.2: revise to read:</p> <p>" Submit a final, corrected, reproducible transparency of "as-built" drawings showing the work is actually installed, placed, erected, and applied. "</p>  | DONE NY         |
| 17       |          |                             |   |                 |



Southern California Rail Consultants

REVIEW COMMENTS

DATE 11-4-80 SHEET 5 OF 11

REVIEWER Si Patel / [unclear] ORGANIZATION & DIVISION Technical Services FINAL DESIGN [ ] SUBMITTAL Willow Sta. to Ocean Blvd. - 02325 (60' Review) PRELIMINARY ENGINEERING [ ]

Table with 5 columns: REF. NO., PAGE NO., DRAWING NO. SPEC. SECTION, COMMENTS BY REVIEWER, RESPONSE/ACTION. Contains handwritten entries for items 16, 17, 18, and 18.



Southern California Rail Consultants

REVIEW COMMENTS

DATE 11-1-86

SHEET 6 OF 11

REVIEWER Si. People / J. Casimiro

ORGANIZATION & DIVISION Technical Services

FINAL DESIGN

SUBMITTAL Willow St. to Crown Blvd. - (325 / 60' Revision)

PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION |
|----------|----------|---------------------------|--|-----------------|
| 19       | 2        | 22260                     | (a) # 3.1<br>Delete 4 <sup>th</sup> sentence - "If soils<br>by the Construction Manager"   | DONE NY         |
|          |          |                           | (b) # 3.1A.5: Change 95% to 90%; and<br>delete "and 90 pounds per cubic foot dry density"  | DONE NY         |
| 20       | 3        | 22260                     | (a) # 3.1B.3:<br>Change "100%" to "90%"; and delete<br>"and not less than 95 pounds per cubic<br>foot dry density"   | DONE NY         |
|          | 3        | 22260                     | (b) # 3.3:<br>1) 3 <sup>rd</sup> line: - Insert the word "density"<br>before the word "test"<br>2) 4 <sup>th</sup> line: delete the word "nuclear density" | DONE NY         |
| 21       | 4        | 22260                     | (a) # 3.4: - Words "compaction of"<br>"Atterberg" misspelled   | CORRECTED NY    |
| 19       |          |                           | (b) # 3.4: - 2 <sup>nd</sup> line<br>Delete 1 <sup>st</sup> sentence   | DONE NY         |



# Southern California Rail Consultants

## REVIEW COMMENTS

DATE 11-4-80

SHEET 7 OF 11

REVIEWER Mr. Ralph J. Coriuro ORGANIZATION & DIVISION Technical Services

FINAL DESIGN

SUBMITTAL Willow St. To Green Blvd. - 0335 (60" Review)

PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER  | RESPONSE/ACTION |
|----------|----------|---------------------------|---|-----------------|
| 22       | 1        | 02032                     | pt 2.1: 2 <sup>nd</sup> line change "Section" to read "Subsection"; and at the end of the paragraph add "(SSPWC), 1985 Edition"                         | DONE NY         |
| 23       | 1        | 02384                     | pt 3.2: 2 <sup>nd</sup> line add the word "guy" before anchor piers.  | DONE NY         |
| 24       | 2        | 02386                     | pt 3.1A:<br>Delete reference to Section 03301, Ballast concrete. All concrete requirements should be referred to Section 03302, Cast-In-Place Concrete. | DONE NY         |
|          |          |                           | (b) pt 3.1B: Change Section 03301 to "Section 03302"  | DONE NY         |
|          |          |                           | (c) pt 3.1: Same comment as in (a)  | DONE NY         |
|          |          |                           | (B) pt 3.3B: Delete the following:<br>"except for foundations between -----<br>----- its correct horizontal position."                                  | DONE NY         |
| 20       |          |                           |   | DONE NY         |

THESE SHOULD BE REVIEWED BY THE DCS DESIGNER



Southern California Rail Consultants

REVIEW COMMENTS

DATE 11-4-86

SHEET 8 OF 11

REVIEWER Sir Ralph Casimiro ORGANIZATION & DIVISION Technical Services

FINAL DESIGN [ ]

SUBMITTAL Willow Sta. to Green Blvd. - P 325 (CC Review)

PRELIMINARY ENGINEERING [ ]

Table with 4 columns: REF. NO., PAGE NO., SPEC. SECTION, COMMENTS BY REVIEWER, and RESPONSE/ACTION. Contains handwritten review notes and responses.



# Southern California Rail Consultants

## REVIEW COMMENTS

DATE 11-4-86SHEET 9 OF 11REVIEWER Si. Ralph J. Casimiro ORGANIZATION & DIVISION Technical ServicesFINAL DESIGN SUBMITTAL Willow Sta. To Crown Pt. - 0325 (Co? Permit)PRELIMINARY ENGINEERING 

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION   |
|----------|----------|---------------------------|--|---|
| 29       | 7        | 02452                     | # 3.7 - Sections 02451, 02455, 02458 and 02459 - where are these sections?   | Will discuss with B. Wilson<br>? THESE SECTIONS ARE BEING TYPED AT SCRC. ? I THINK NY |
| 30       | All      | 02456                     | Same comment as in item 27(a).   | TO DISCUSS WITH B. WILSON NY  |
|          | 2        | 02456                     | # 1.2 : Section 02455 - where?   | do  |
| 31       | B        | 02456                     | # 3.7A : This paragraph should be revised - only reference to Section 01412, and no longer used (related in the guide spec.) | I AM TOLD THAT THIS SECTION IS BEING REWRITTEN NY                                     |
| 32       | 1        | 02457                     | # 1.2 B.1 : ASTM 0230 and no longer used by ASTM - change to "ASTM T 189"  | DONE NY   |
|          |          |                           | # 1.2 B.2 : change "32" to "32 %"  | DONE NY   |
| 33       | All      | 02460                     | Same comment as in item 27(a)  | TO DISCUSS WITH SCRC: NY  |
| 22       |          |                           | hook related related sections  | Will do - ALL BEING REWORKED NY   |



# Southern California Rail Consultants

## REVIEW COMMENTS

DATE 11-4-80

SHEET 10 OF 11

REVIEWER So. Pacific Associates

ORGANIZATION & DIVISION T. Williams

FINAL DESIGN

SUBMITTAL Willow Ste. L. Form Blvd. - C325/Co. Review

PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION    |
|----------|----------|---------------------------|--|--------------------|
| 33       | All      | C-2403                    | Same comment as in item 27(a)  | SCRC TO ADVISE N/A |
|          | 2        | C-2403                    | # 1.3.1: Revise this paragraph - Section C-141? are we longer used? (quantity) Section C-1403 in the Guide Spec. | DONE N/A           |
| 34       | 2        | C-2720                    | # 2.3: Revise this paragraph C-3 Section C-3301 Reillman Cement Concrete and use use use (C-3315 abbreviation).  | DONE N/A           |
|          |          |                           | C-3.5 & 3.7  |                    |
| 35       | 2, 4 & 5 | C-3300                    | # 2.3.1: Delete letter A.  | DONE N/A           |
| 36       | 5        | C-3410                    | Same comment as above - # 2.2  | DONE N/A           |
| 37       | 1        | C-5000                    | # 1.2. A.2: Add the following in the proper order:   |                    |
|          |          |                           | A170 - Pipe, Steel, Black and Hot-Dipped Zinc-coated (Galvanized) welded and seamless, for delivery uses.        | DONE N/A           |
| 23       |          |                           |  |                    |





Southern California Rail Consultants

REVIEW COMMENTS

DATE 11-4-86

SHEET 11 OF 11

REVIEWER St. Ralph / J. Cassimiro ORGANIZATION & DIVISION Technical Services

FINAL DESIGN

SUBMITTAL Willow Star to Ocean Blvd. - 325 (Kerr Review)

PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION |
|----------|----------|---------------------------|--|-----------------|
| 37       | 1        | A5040                     | A384 - Safeguarding Against Warpage and Distortion During Hot-Dip Galvanizing of steel assemblies. | ✓               |
|          |          |                           | A385 - Providing High-Quality Zinc Coatings (Hot-Dip)  | DONE <i>UP</i>  |
|          |          |                           | A386 - Zinc Coating (Hot-Dip) on Assembled Steel Products  | ✓               |
|          |          |                           |  |                 |
|          |          |                           |  |                 |
|          |          |                           |  |                 |
|          |          |                           |  |                 |
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|          |          |                           |  |                 |
|          |          |                           |  |                 |
| 24       |          |                           |  |                 |



Southern California Rail Consultants

REVIEW COMMENTS

DATE 10-27-86 SHEET 1 OF 3

REVIEWER B.I. MADUKE ORGANIZATION & DIVISION SCRC, T.S. FINAL DESIGN [ ] SUBMITTAL CONTRACT C325 - 60% - DMJM. PRELIMINARY ENGINEERING [ ]

Table with 4 columns: REF. NO., PAGE NO., DRAWING NO. SPEC. SECTION, COMMENTS BY REVIEWER, RESPONSE/ACTION. Contains 5 rows of review comments regarding drawing specifications and track details.



Southern California Rail Consultants

REVIEW COMMENTS

DATE 10-27-06 SHEET 2 OF 3

REVIEWER B.I. MADUKE ORGANIZATION & DIVISION SCRC, T.S. FINAL DESIGN [ ] SUBMITTAL CONTRACT C325-60% - DMTM PRELIMINARY ENGINEERING [ ]

Table with 3 columns: REF. NO., PAGE NO., DRAWING NO. SPEC. SECTION, COMMENTS BY REVIEWER, RESPONSE/ACTION. Contains 3 rows of review comments regarding scheduling, soil testing, and aggregate specifications.



Southern California Rail Consultants

REVIEW COMMENTS

DATE 10-27-86

SHEET 3 OF 3

REVIEWER B.I. MADUKE ORGANIZATION & DIVISION SCRC, T.S.

FINAL DESIGN

SUBMITTAL CENTRAL C325 - 60% - DMJM.

PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER  | RESPONSE/ACTION                        |
|----------|----------|---------------------------|---|--|
| 9.       | 01453-8  | EMBAOKM. SUBGRADES        | PLEASE REFER TO SIMON RAUPH'S MEMO TO B.A. WILSON DATED 10-24-86 WHERE IN OTHER CORRECTIONS AND REVISIONS HAVE BEEN MADE AND COLLABORATED IN PARTICULARLY IN PAGES 01453-8 THRU - 01453-13 INCLOSE. | TO BE DISCUSSED WITH B. WILSON 11/1    |
| 10       | 01210-2  | 3.1.A.A.                  | AS REVISION WITH BAW 10-27-86.  | do 11/1                                |
| 11       | 01210-3  | 3.1.B.3<br>.4             | AS REVISION WITH BAW 10-27-86.<br>✓ ✓ ✓ ✓ ✓   | do 11/1                                |
|          |          |                           |   | WOULD LIKE TO HAVE A COPY OF THIS MEMO |
| 27       |          |                           |   |  |



Southern California Rail Consultants

REVIEW COMMENTS

RECEIVED

NOV - 5 1986

SCRC

DATE 11-4-86

SHEET 1 OF 1

REVIEWER L. HUBAUD ORGANIZATION & DIVISION

FINAL DESIGN

SUBMITTAL R01-T01-C325  
B WILSON

PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION  |
|----------|----------|---------------------------|--|--|
|          |          |                           | WILL THERE BE STANDARD LANGUAGE REGARDING SECURITY IN ORIGINAL PART OF THE SPECIFICATIONS. IT HAS BEEN IN OTHER CONTRACTS BUT I DON'T SEE IT HERE. | The LAETA boiler plate includes a section of Security; not included in Technical Provisions. BAW |
|          |          |                           | MY OTHER COMMENTS WILL BE INCORPORATED WITH POSSIBLE REVISIONS.  |  |
| 34       |          |                           |  |  |



Southern California Rail Consultants

REVIEW COMMENTS

DATE 11/3/86  
SHEET 1 OF 3

REVIEWER J. JOE ORGANIZATION & DIVISION Facilities Design FINAL DESIGN   
SUBMITTAL 60% Submittal C 325 PRELIMINARY ENGINEERING

| REF NO. | PAGE NO. | DRAWING NO./ SPEC. SECTION | COMMENTS BY REVIEWER  | RESPONSE/ACTION                                     |
|---------|----------|----------------------------|---|---|
| 1       | 161      | SE-1100                    | Show north arrow on the plan  | YES BM  |
| 2       | 161      | SE-1100<br>note 3          | Is Allowable Bearing soil pressure of 2000 psf conform to the soil report from Soil Consultant? please make a reference to it.  | ADDED TO NOTE #3 BM                                 |
| 3       | 162      | SE-1101<br>Plan            | North arrow and the work it should be established   | YES BM  |
| 4       | 162      | SE-1101                    | How would the section looks like through Ramp slab at the end of Ramp. Although Ramp slab is N/C, it is necessary to show how the Ramp slab sits on the Ramp foundation | THIS WILL BE SHOWN IN THE SECOND PHASE DRAWINGS. BM |
| 35      |          |                            |   |   |



# Southern California Rail Consultants

DATE 11/3/86  
 SHEET 2 OF 3

## REVIEW COMMENTS

REVIEWER J Yoo ORGANIZATION & DIVISION Facilities Design FINAL DESIGN   
 SUBMITTAL 60% Submittal C 325 PRELIMINARY ENGINEERING

| REF NO. | PAGE NO. | DRAWING NO./ SPEC. SECTION | COMMENTS BY REVIEWER  | RESPONSE/ACTION                       |
|---------|----------|----------------------------|---|---------------------------------------|
| 5       | 162      | SE-1101<br>Elevation       | The electrical opening is no longer at that location please check w/ architect. | WILL CHECK & CORRECT IF NECESSARY. BM |
| 6       | 163      | SE-1102                    | see Ref 1, Ref 2,   | WILL DO BM                            |
| 7       | 164      | SE-1103                    | see Ref 3, Ref 4  | ③ WILL DO ④ SAME REPLY BM             |
| 8       | 165      | SE-1104                    | see Ref 1, Ref 2  | YES WILL DO BM                        |
| 9       | 166      | SE-1105                    | see Ref 3, Ref 4  | ③ WILL DO ④ SAME REPLY BM             |
| 10      | 167      | SE-1106                    | see Ref 1, Ref 2  | WILL DO BM                            |
| 11      | 168      | SE-1107                    | see Ref 3, Ref 4  | { ③ WILL DO ④ SAME REPLY BM           |
| 12      | 169      | SE-1108                    | see Ref 1, Ref 2  | WILL DO BM                            |
| 13      | 170      | SE-1109                    | see Ref 3, Ref 4  | ③ WILL DO ④ SAME REPLY BM             |
| 36      |          |                            |   |                                       |



# Southern California Rail Consultants

## REVIEW COMMENTS

DATE 11/3/86  
SHEET 3 OF 3

REVIEWER J. Yoo ORGANIZATION & DIVISION Facility Design FINAL DESIGN   
SUBMITTAL 60% Submittal C 325 PRELIMINARY ENGINEERING

| REF NO. | PAGE NO. | DRAWING NO./ SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION                         |
|---------|----------|----------------------------|--|---|
| 14      | 172      | SE-1111                    | see Ref 3, Ref 4<br><br>specification  | ③ will do ④ same reply<br><del>AM</del> |
| 15      |          | 01380-1<br>Part-2          | clarify the diagram shown<br>with square indicating the<br>dimensions of length and<br>width |   |
| 37      |          |                            |  |   |





Southern California Rail Consultants

**REVIEW COMMENTS**

DATE 11/3/86  
SHEET 1 OF 1

REVIEWER Art Peterson ORGANIZATION & DIVISION SCRTD/Facilities Maintenance FINAL DESIGN   
SUBMITTAL C325 - 60% Submittal PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO.  | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER  | RESPONSE/ACTION   |
|----------|-----------|---------------------------|---|---|
| 1.       | 141, etc. | AR-1100 through AR-1112   | Trees marked as "①" in median: please confirm what will be done with them after the LRT construction is complete. Note ① only refers to their being placed in storage and nothing thereafter. DO NOT restore them to the median! They will be nothing but trouble there. Also, some trees in the median have no note number for reference (pg. 147, for example) - what is to be done with these trees? | Palm trees will be replaced in the median in accordance with EIR. City of LB will be maintaining BAW.<br><br>WILL CLARIFY |
| 38       |           |                           |   |   |



Southern California Rail Consultants

REVIEW COMMENTS

DATE November 5, 1986

SHEET 1 OF 1

REVIEWER H. Schweitzer *H. Schweitzer* ORGANIZATION & DIVISION Comstock Engineering, Inc.

FINAL DESIGN

SUBMITTAL Willow Station to Ocean Blvd (C325) In-Progress 60% Review Submittal WBS: N380

PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION <i>H.C.</i>   |
|----------|----------|---------------------------|--|---|
| 1        | 201      | TK-1120                   | Insulated joints not required for non-signaled special work.   | WILL UPDATE   |
| 2        | 202      | TK-1121                   | Insulated joints not required for non-signaled special work.   | WILL UPDATE   |
| 3        | 194      | TK-1110                   | Where used?  | ALL TURNOUTS OPPOSITE FROGS   |
| 4        | 196      | TK-1112                   | Insulated gage rods required.  | WILL PURCHASE INSULATED MACHINE IN P83C   |
| 5        | 198      | TK-1114                   | How can this layout work in embedded track? Also how is switch stand mounted? Insulated joints and insulated rods not required if switch is not interlocked.     | MOUNTING DETAILS BEING DONE NOW<br>LACTC WANTS ALL RODS THE SAME, SO THEY ARE ALL INSULATED |
| 6        | 200      | TK-1116                   | How can this layout work in embedded track? Also how is switch stand mounted? Insulated joints and insulated rods are not required if switch is not interlocked. | SAME AS COMMENT 5.  |
|          |          |                           | <i>Guard Rail 1" above top of running rail in street</i>   |   |
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Southern California Rail Consultants

DATE 10/28/86 SHEET 1 OF 1

DESIGN REVIEW COMMENTS

REVIEWER George Dunn/Leo Lee FILE NO. ORGANIZATION DKS Associates
60 % SUBMITTAL FOR Contract No. R02-T01-C325

Table with 6 columns: REF. NO., PAGE NO., DRAWING NO./ SPEC. SECTION, COMMENTS, RESPONSE, ACTION. Contains handwritten entries regarding Section 3.4, Section 3.6, and CE plans.



# Southern California Rail Consultants

## REVIEW COMMENTS

DATE 11-4-86  
 SHEET 1 OF 2

REVIEWER WALTER OKITSU ORGANIZATION & DIVISION CONSULTANT for DKS FINAL DESIGN   
 SUBMITTAL 60% PRELIMINARY ENGINEERING

| REF NO. | PAGE NO. | DRAWING NO./ SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION   |
|---------|----------|----------------------------|--|---|
|         |          | CE-1129                    | From a traffic standpoint, intersectional bulbs are not advisable. However, they probably will not cause serious congestion. These minor bottle-necks appear only at non-signalized intersections: Eagle, 21st, Willard, Rhea, 19th, Payman, 14th, 12th & 11th. REMOVE BULBS - GRD 11/5/86 | THE BULBS WERE IN THE WORK SHEETS OF DKS, SO WE TRIED TO RETAIN THEM. SOME OF THESE WERE CAUSING PROBLEMS ON THE CROSS SLOPES. WE WILL DISCUSS IN REVIEW MEETING, DKS |
|         |          | -1132                      |  |   |
|         |          | -1134                      |  |   |
|         |          | -1135                      |  |   |
|         |          | -1137                      |  |   |
|         |          | -1141                      |  |   |
|         |          | CE-1112                    | "Eagle Way" should read "Eagle St", no?  | yes <del>no</del>   |
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| 42      |          |                            | PADS OF REVIEW COMMENTS SHEETS AVAILABLE AT SCRC'S OFFICE SERVICES   |   |



Southern California Rail Consultants

**REVIEW COMMENTS**

DATE 11-4-86  
SHEET 2 OF 2

REVIEWER WALTER OKITSU ORGANIZATION & DIVISION CONSULTANT SW DKS FINAL DESIGN

SUBMITTAL 60% PRELIMINARY ENGINEERING

| REF NO. | PAGE NO. | DRAWING NO./ SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION  |
|---------|----------|----------------------------|--|--|
|         |          | AR -1108                   | For each corner of 11th/Long Beach intersection; a parking meter is shown relocated to the middle of a "bulb". Remove. | THE BULBS WILL BE REMOVED. SO THE METERS CAN STAY. (?) <del>RM</del> |
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| 43      |          |                            | PADS OF REVIEW COMMENTS SHEETS AVAILABLE AT SCRC'S OFFICE SERVICES   |  |



# Southern California Rail Consultants

DATE 10-29-86  
SHEET 1 OF 3

## DESIGN REVIEW COMMENTS

REVIEWER A. Willis FILE NO. \_\_\_\_\_  
60 % SUBMITTAL FOR R01-T01-C325

WOULD LIKE TO KNOW WHAT IS THE DIFFERENCE BETWEEN FLAGMEN AND FLAGGERS  
SHOULD PROBABLY BE FLAG PERSON  
ORGANIZATION DKS Associates

| REF. NO.  | PAGE NO.       | DRAWING NO./ SPEC. SECTION | COMMENTS  | RESPONSE                                       | ACTION |
|-----------|----------------|----------------------------|---|--|--------|
|           | 01576-1        | 1.1                        | Change "Flagmen" to "flaggers"  | DONE <u>HP</u>                                 |        |
|           | 01576-1        | 1.3.B                      | Line 5: change "traffic at all times." to read "traffic consistent with the Worksite Traffic Control Plan."   | DONE <u>HP</u>                                 |        |
|           | 01576-3        | 2.1.C                      | Insert attached table of Dry Reflectance Values at end of section C   | <u>Added to submittal</u><br>WILL DO <u>HP</u> |        |
|           | 01576-4<br>& 5 | 3.5.A & C                  | Change "flagmen" to "flaggers"  | DONE <u>HP</u>                                 |        |
|           | 01576-5        | 3.5.D                      | Change "flagman" to "flagger"   | DONE <u>HP</u>                                 |        |
|           | 01576-5        | 3.6.A                      | Delete "No street closure ... , however,"   | DONE <u>HP</u>                                 |        |
|           | 02580-1        | 1.1 - 3.5                  | Suggest replacing entire section with Section 02580 from C225 (with appropriate modifications for Long Beach) which is attached to these comment sheets | WILL DO. <u>HP</u>                             |        |
| <u>44</u> | 02846&7        |                            | Add (from C225) with appropriate modifications - see attached   | WILL DO <u>HP</u>                              |        |

**DESIGN REVIEW COMMENTS**

REVIEWER A. Willis FILE NO. \_\_\_\_\_ ORGANIZATION DKS Associates  
60 % SUBMITTAL FOR R01-T01-C325

| REF. NO. | PAGE NO. | DRAWING NO./ SPEC. SECTION | COMMENTS  | RESPONSE   | ACTION        |
|----------|----------|----------------------------|---|--|---------------|
|          |          | CE-0006                    | Delete Traffic Engineering Symbols  | THIS IS SCRS STD. DWG. <del>ADD</del>  |               |
|          |          | CE-1125                    | Curb transition opposite 27th Street into southbound right-turn lane for parking lot looks too abrupt - should be 60' long. | DKS LAYOUT WAS FOLLOWED. PLEASE CLARIFY YOUR COMMENT BY INDICATING ON LAYOUT AND HAVE DKS CONFORM/APPROVE. |               |
|          |          | CE-1126                    | Striping on southbound exit leg of Long Beach Blvd. is incorrect - there will only be 2 through lanes at the intersection   | PLS. CORRECT & HAVE DKS CONFORM/APPROVE LAYOUT. <del>RM</del>  |               |
|          |          | CE-1127                    | Southbound lane widths should be consistent - not 11', 10', 12' then 11', 11', 11' or 11', 11', 9' and then 11', 10', 10'   | PLS. MAKE YOUR CORRECTIONS ON DRAWINGS <del>RM</del>   |               |
|          |          | CE-1141                    | Narrow the median opening for left turns out of 12th Street to 16' - only one left-turn lane is necessary                   | -DITTO-  | <del>RM</del> |
|          |          | CE-1148                    | On east gutter profile, change "propoposed" to "proposed"   | <u>OK</u> <del>RM</del>  |               |
| 45       |          |                            |   |  |               |



DESIGN REVIEW COMMENTS

REVIEWER A. Willis FILE NO. \_\_\_\_\_ ORGANIZATION DKS Associates  
60 % SUBMITTAL FOR ROI-T01-C325

| REF. NO. | PAGE NO. | DRAWING NO./ SPEC. SECTION | COMMENTS  | RESPONSE  | ACTION          |
|----------|----------|----------------------------|---|---|-----------------|
|          |          | CE-1148                    | Southbound median lane at 4th Street: arrow should indicate a through movement only. Left turns into 4th are not permitted from this lane per M. Frank's Matrix | DKS TRANSMITTAL # P 85136 X5, 3/31/86 INCLUDED LIST OF LEFT TURN INCLUDING L.B. SOUTHBOUND AT 4TH ST. <del>PM</del> | SUGGESTED LANES |
|          |          | CE-1147                    | Narrow the median opening for left turns out of 5th Street to 16' - only one left-turn lane is necessary  | PLS. INDICATE CORRECTION ON DWG. <del>PM</del>  |                 |
|          |          | CE-1145                    | Recommend you show two 15.5' northbound through lanes with no parking on exit leg at 7th St.  | OK <del>PM</del>  |                 |
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Southern California Rail Consultants

REVIEW COMMENTS

DATE NOV 6, 1986 SHEET 1 OF 2

REVIEWER GEORGE P. KAPPAS ORGANIZATION & DIVISION SCRC - FACILITIES DESIGN FINAL DESIGN [X] SUBMITTAL 60% REVIEW - WILLOW STATION TO OCEAN BLVD. / C325 OCT 20, 1986 PRELIMINARY ENGINEERING [ ]

Table with 4 columns: REF. NO., PAGE NO., DRAWING NO. SPEC. SECTION, COMMENTS BY REVIEWER, and RESPONSE/ACTION. Contains 5 rows of review comments and responses.



Southern California Rail Consultants

REVIEW COMMENTS

DATE NOV 6, 1986 SHEET 1 OF 2

REVIEWER GEORGE P. KAPPAS ORGANIZATION & DIVISION SCRC - FACILITIES DESIGN FINAL DESIGN [X] SUBMITTAL 60% REVIEW - WILLOW STATION TO OCEAN BLVD / C325 / OCT 20, 1986 PRELIMINARY ENGINEERING [ ]

Table with 4 columns: REF. NO., PAGE NO., DRAWING NO. SPEC. SECTION, COMMENTS BY REVIEWER, RESPONSE/ACTION. Contains 9 rows of review comments and responses.



Southern California Rail Consultants

REVIEW COMMENTS

DATE 4 Nov, 1986 SHEET 1 OF 9

REVIEWER D. H. Boudoin ORGANIZATION & DIVISION MKE-DCS SUBMITTAL C325 Willow St. to Ocean Blvd - 60% Review Submittal

FINAL DESIGN [checked] PRELIMINARY ENGINEERING [unchecked]

Table with 4 columns: REF. NO., PAGE NO., DRAWING NO. SPEC. SECTION, COMMENTS BY REVIEWER, RESPONSE/ACTION. Contains two main entries regarding pole symbols and stationing.



Southern California Rail Consultants

REVIEW COMMENTS

DATE 4 Nov. 1986  
SHEET 2 OF 9

REVIEWER J. H. Bourasdin ORGANIZATION & DIVISION MKE-DES FINAL DESIGN   
SUBMITTAL C325 Willow St. to Ocean Blvd - 80% Review Submittal PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION  |
|----------|----------|---------------------------|--|--|
| 3.       | 16       | CE-1101                   | Horizontal Alignment Data -<br>It appears that there is no superelevation in the whole C325 track alignment. Please confirm.   | YES. NONE. RM  |
| 4.       | 92-118   | CE-1125 thru 1200         | Curb Modification -<br>Are the existing signal and lighting structures at the intersections, as shown on these drawings, the new locations? Locations of the signal and lighting structures that are relocated, due to curbs or street modification should be consistent on all of the drawings in the C325 package, especially on the UT drawings where the 865 pole structures are shown. Possible conflict may occur. | THESE WILL BE SHOWN IN THE UTILITY PLANS, UT-1140 THROUGH UT-1167. |
| 5.       | 122      | CE-1155                   | Typical Section, Sheet 1 - Section at Sta. 1072+31.47<br>Perhaps adding information as to the location of the section (6th St. Station) will be appropriate.   | We agree RM  |
| 50       |          |                           |  |  |



Southern California Rail Consultants

REVIEW COMMENTS

DATE 4 NOV. 1986

SHEET 3 OF 9

REVIEWER D. H. Bruscia

ORGANIZATION & DIVISION MKE-OCS

FINAL DESIGN

SUBMITTAL C325 Willow Sta to Ocean Blvd - 003 Review Submitted

PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION  |
|----------|----------|---------------------------|--|--|
| 6.       | 122      | CE-INV                    | Dimension from the edge of the curb to the outside face of the lighting pole is shown as 12" CLR - will this be applicable also to the OCS pole foundation?  | WE HAVE NO DEFINITE DIRECTIVE ON THE OCS POLE CLEARANCE FROM THE FACE OF CURB. REFER TO SCAC. <del>AWA</del> |
| 7.       | "        | "                         | What is the status of joint-use structure in Long Beach? Although center pole construction is being considered south of 7th Street along Long Beach Blvd, side poles will still be used in the passenger station areas and existing lighting poles in the vicinity of the station may be used to attach the OCS support. | Not settled yet. BAW   |
| 8.       | "        | "                         | Section at Sta. 1059+53.03 - Is this section typical for 26' track separation? Please revise reference to "Catenary Pole", to read, "OCS Pole".  | THIS IS ONLY FOR 6TH ST. STATION. OK AWA   |
| 51       |          |                           |  |  |



**Southern California Rail Consultants**

**REVIEW COMMENTS**

DATE 4 Nov. 1986

SHEET 4 OF 9

REVIEWER D.H. Bouladin ORGANIZATION & DIVISION MKE-OCS

FINAL DESIGN

SUBMITTAL C325 Willow St to Ocean Blvd - 60% Review Submitted

PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION  |
|----------|----------|---------------------------|--|--|
| 9        | 123      | CE-1156                   | Typical Section, Sheet 2 - Section at Sta. 963+01.47<br>Is this section typical for 12' track separation? Perhaps for representation of the actual section, the OCS pole on each side of the street should be shown. | NO. THIS IS ONLY FOR THIS SB TALK STATION NEAR VERNON ST.<br>JRM |
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Southern California Rail Consultants

REVIEW COMMENTS

DATE 4 NOV 1986 SHEET 5 OF 9

REVIEWER D.H. Bousodim ORGANIZATION & DIVISION MKE-OCS FINAL DESIGN [checked] SUBMITTAL C324- Willow Sta To Ocean Blvd - 80% Review Submittal PRELIMINARY ENGINEERING [unchecked]

Table with 4 columns: REF. NO., PAGE NO., DRAWING NO. SPEC. SECTION, COMMENTS BY REVIEWER, and RESPONSE/ACTION. Contains handwritten review notes and responses.

53



Southern California Rail Consultants

**REVIEW COMMENTS**

DATE 4 Nov. 1984

SHEET 6 OF 9

REVIEWER D. H. Borulodin ORGANIZATION & DIVISION MKE-DCS FINAL DESIGN   
 SUBMITTAL C325 Willow Sta to Ocean Blvd. - 60% Review Submitted PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION   |
|----------|----------|---------------------------|--|---|
| 13.      | 141      | AR-1100                   | Tree Relocation Plan   |   |
|          | thru     | thru                      | Plane coordinates relocated trees with the   | Final landscaping of median                                       |
|          | 153      | AR-1112                   | DCS pole locations especially at the street median. Sufficient distance from the DCS pole should be provided for safety. | is not part of this contract. It's a separate contract C.335. BAW |
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Southern California Rail Consultants

REVIEW COMMENTS

DATE 4 Nov. 1986

SHEET 7 OF 9

REVIEWER D.H. Boucodin

ORGANIZATION & DIVISION MKE-DCS

FINAL DESIGN

SUBMITTAL C325 Willow Station Ocean Blvd - 60% Review Submitted

PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO.    | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION     |
|----------|-------------|---------------------------|--|---------------------|
| 14.      | 161         | SE-1100                   | <u>Station Foundation</u>  |                     |
|          | <u>thru</u> | <u>thru</u>               | <u>One of the requirements of the station designers is to line up the OCS poles with the canopy supports in the station area. Please provide the stationing of at least the extreme canopy supports in order that the OCS poles can be properly located.</u> | <u>WILL BE DONE</u> |
|          | 172         | SE-1111                   |  | <u>(BN)</u>         |
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Southern California Rail Consultants

REVIEW COMMENTS

DATE 4 Nov. 1986  
SHEET 8 OF 9

REVIEWER D.H. Borodoin ORGANIZATION & DIVISION MKE-OLS FINAL DESIGN   
SUBMITTAL C325 Willow Sta to Ocean Blvd - 100% Review Submittal PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO.     | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER  | RESPONSE/ACTION     |
|----------|--------------|---------------------------|---|---------------------|
| 15.      | 178          | TK-1103                   | Track Chart<br>The note above the cross-section south of Anaheim Passenger Station should read, "NO. 10 Cross-section Detail See Dwg. TK-1123".   | AGREE MM            |
| 16.      | 192 thru 204 | TK-1105 TK-1123           | Perhaps it would be preferable to group all TK drawings together. Track Charts (TK-1100 thru TK-1104) should belong in this group.  | YES MM              |
| 17.      | 196<br>193   | TK-1106                   | Embedded Track Details - Typical Section D<br>Please revise reference to "catenary pole" to read, "OLS pole".   | OK. DONE. MM        |
| 18       | 2N           | OC-1103                   | This standard drawing may be revised or additional drawing may be prepared to address embedment into the sidewalk and other foundation details applicable to the downtown construction. | good suggestion. MM |
| 56       |              |                           |   |                     |



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REVIEW COMMENTS

DATE 7 Nov. 1986  
SHEET 9 OF 9

REVIEWER D.H. Bourdieu ORGANIZATION & DIVISION MKE-DCS FINAL DESIGN   
SUBMITTAL C325 Willow Sta to Ocean Blvd - 002 Review Submitted PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION   |
|----------|----------|---------------------------|--|---|
| 19.      | 4        | 02386                     | Specifications, Paragraph 3.3.B.<br>Third line from the top - Please end sentence after "Contract Drawings" and delete "except for foundation... horizontal position".   | DONE<br>MK  |
| 20       | General  |                           | Sections 02384, 02386 and 02388 of the specifications were derived from C31N. Although most of its provisions are applicable to C325, a separate specifications will be prepared for the DCS pole foundations and anchors. Please advise of next submission. | Since we have these versions on the 325 Diskette; it would be more expeditious for MK to mark up these versions in red and return to S. Neujaim |
| 57       |          |                           |  |   |



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**REVIEW COMMENTS**

DATE 11/15/86  
SHEET 1 OF 8

REVIEWER C. Elliott ORGANIZATION & DIVISION P. I FINAL DESIGN   
SUBMITTAL C 325 60% PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION             |
|----------|----------|---------------------------|--|-----------------------------|
| 125      |          | General                   | Please add a construction site plan as required by drafting standards  | WILL DISCUSS. <del>NO</del> |
| 26       |          | General                   | The utility drawings are not in the correct sequence per section 6.2.8. It is especially confusing to have CE demolition drawings in the middle of utility drawings. Place in correct order or obtain drafting exemption Same is true for Right of Way | WILL CONFORM TO 6.2.8.      |
| 27       |          | UT-1100<br>UT-1140        | File in STA numbers in title block & on index once determined  | YES <del>NO</del>           |
| 128      |          | UT-1100                   | Drawing # UT-1176 & 1177 Change stations from 11+60 to 11+20 to match drawings Same for UT-1159 & 1158   | } OK <del>NO</del>          |
|          |          | AR-1100                   | Change 7+00 to 7+76.69 to agree with drawing   |                             |
| 58       |          | SE-1100 & SE-1101         | add "station" after Street to agree with drawings  |                             |

AR-1120 AR-1130 Chans "furnishings" to "Furnishings"



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REVIEW COMMENTS

DATE 11/5/86 SHEET 2 OF 8

REVIEWER C. Elliott ORGANIZATION & DIVISION P.I. FINAL DESIGN [X] SUBMITTAL Q 325 60% PRELIMINARY ENGINEERING [ ]

Table with 4 columns: REF. NO., PAGE NO., DRAWING NO. SPEC. SECTION, COMMENTS BY REVIEWER, RESPONSE/ACTION. Contains handwritten review notes and responses.



Southern California Rail Consultants

REVIEW COMMENTS

DATE 11/5/86 SHEET 3 OF 8

REVIEWER C Elliott ORGANIZATION & DIVISION PI FINAL DESIGN [X] SUBMITTAL C 325 60% PRELIMINARY ENGINEERING [ ]

Table with 3 columns: REF. NO., PAGE NO., DRAWING NO. SPEC. SECTION, COMMENTS BY REVIEWER, RESPONSE/ACTION. Contains 7 rows of review comments and responses.



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REVIEW COMMENTS

DATE 11/5/86 SHEET 4 OF 8

REVIEWER C. Elliott ORGANIZATION & DIVISION P.F. FINAL DESIGN [X] SUBMITTAL C 325 60% PRELIMINARY ENGINEERING [ ]

Table with 4 columns: REF. NO., PAGE NO., DRAWING NO. SPEC. SECTION, COMMENTS BY REVIEWER, RESPONSE/ACTION. Contains handwritten review notes and responses for items 139, 140, 141, 142, and 61.



Southern California Rail Consultants

REVIEW COMMENTS

DATE 11/5/86 SHEET 5 OF 8

REVIEWER C. Elliott ORGANIZATION & DIVISION PI FINAL DESIGN [X] SUBMITTAL C 325 40% PRELIMINARY ENGINEERING [ ]

Table with 4 columns: REF. NO., PAGE NO., DRAWING NO. SPEC. SECTION, COMMENTS BY REVIEWER, and RESPONSE/ACTION. Contains handwritten review notes and responses.





Southern California Rail Consultants

**REVIEW COMMENTS**

DATE 11/5/86  
SHEET 6 OF 8

REVIEWER C. Elliott ORGANIZATION & DIVISION P.F. FINAL DESIGN   
SUBMITTAL @ 325 60% PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER  | RESPONSE/ACTION       |
|----------|----------|---------------------------|---|-----------------------|
| 147.     |          | SE-1113                   | Details 5 & 6 Section F add cross reference to SE-1101, SE-1103, SE-1105, SE-1107, SE-1109, SE-1111 | Will Do <del>it</del> |
| 148      |          | SE-1112<br>1113           | Fill in Designed By.  | Will Do <del>it</del> |
| 63       |          |                           |   |                       |



# Southern California Rail Consultants

## REVIEW COMMENTS

DATE 11/5/84  
SHEET 7 OF 8

REVIEWER C. Elliott ORGANIZATION & DIVISION PT FINAL DESIGN   
SUBMITTAL @ 325 60% PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION       | COMMENTS BY REVIEWER  | RESPONSE/ACTION                 |
|----------|----------|---------------------------------|---|---------------------------------|
| 149      |          | CE-1113                         | Change "Hill St" to "Hill" where station is shown   | WILL DO <del>HA</del>           |
| 150      |          | CE-1117                         | Change "Anaheim Ave" to "Anaheim" where station is shown  | WILL DO <del>HA</del>           |
| 151      |          | TK-1106                         | Section D cross references CE-1155 but I don't see a reference on that drawings   | WILL CHECK <del>HA</del>        |
| 152      |          | TK-1106                         | section B cross references CE-1157 but also I don't see reference on drawing  | WILL CHECK/REVIEW <del>HA</del> |
| 153      |          | TK-1111<br>TK-1113<br>thru 1116 | Please delete Note "To be supplied by LACTE" these drawings will be included as reference drawings in this pkg as you note on your index. | WILL DO <del>HA</del>           |
| 154      |          | TK-1111                         | This indicates reference to TK 0201 from P830. Add this as a reference dwg.   | WILL DO <del>HA</del>           |
| 64       |          |                                 |   |                                 |



Southern California Rail Consultants

REVIEW COMMENTS

DATE 11/5/85

SHEET 8 OF 8

REVIEWER D. Elliott  
SUBMITTAL @ 325 4090

ORGANIZATION & DIVISION PF

FINAL DESIGN

PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION  |
|----------|----------|---------------------------|--|--|
| 155      |          | 00-1100                   | Add SA1, SA2, SA3 to agree with index and comply with drafting standards   | Will Do It!  |
|          |          | 1101                      |  |  |
|          |          | 1102                      |  |  |
|          |          |                           | Also fill in "designed by" & change "drawn by" to a signature  | Provided by MK. Will refer comment to them                   |
| 156      |          | 00-1103                   | This is a standard drawing change to 00S-0001. Also you don't have the most recent revision. Another change is pending. I'll send a new mylar once approved. | OK. Please have final mylar to us before 85% (due on 1/2/87) |
| 157      |          | 00-1100                   | Why don't these include notes such as a reference to the pole foundation drawings as all of your other schedules have?                                       | Provided by MK. Will refer action to them                    |
|          |          | 1101                      |  |  |
|          |          | 1102                      |  |  |
| 65       |          |                           |  |  |



### Southern California Rail Consultants

### REVIEW COMMENTS

DATE 10/5/86  
SHEET 1 OF 2

REVIEWER G.E. Vandeventer ORGANIZATION & DIVISION RTD Rail Operations  
SUBMITTAL WILLOW-OCEAN 60% CB25

FINAL DESIGN

PRELIMINARY ENGINEERING

| REF NO. | PAGE NO. | DRAWING NO./ SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION                |
|---------|----------|----------------------------|--|--------------------------------|
|         |          | GENERAL                    | CONSTRUCTION PHASING PLANS SHOW NOTHING<br>DEMOLITION PLANS SHOW NOTHING   | Agree. Will be updated for 85% |
|         |          |                            | DON'T LIKE ALL THE LEFT TURNS OFF DEADEND<br>SIDE STREETS. CAN'T LONG BEACH GIVE UP<br>SOME OF THESE? CARS WAITING TO MERGE<br>INTO TRAFFIC WILL BE SITTING ON THE TRACKS. | Long Beach will not.           |
|         |          |                            |  |                                |
|         |          |                            |  |                                |
|         |          |                            |  |                                |
|         |          |                            |  |                                |
|         |          |                            |  |                                |
|         |          |                            |  | BAW                            |
|         |          |                            |  |                                |
|         |          |                            |  |                                |
|         |          |                            |  |                                |
|         |          |                            |  |                                |
|         |          |                            |  |                                |
|         |          |                            |  |                                |
| Go      |          |                            |  |                                |



Southern California Rail Consultants

REVIEW COMMENTS

DATE 11/5/86 SHEET 2 OF 2

REVIEWER G.E. Vandeventer ORGANIZATION & DIVISION LTD Rail Operations FINAL DESIGN [checked] SUBMITTAL WILLOW-OCEAN 607. C325 PRELIMINARY ENGINEERING [unchecked]

Table with 4 columns: REF NO., PAGE NO., DRAWING NO./ SPEC. SECTION, COMMENTS BY REVIEWER, and RESPONSE/ACTION. Contains handwritten entries for drawings CE 1106, CE 1107, CE 1184, CE 1185, CE 1200, TK 1112, 1114, and 1116.



Southern California Rail Consultants

DATE 11-3-86 SHEET 1 OF 6

DESIGN REVIEW COMMENTS

REVIEWER CE JONES DRAWING NO. C325 Willow Station to Ocean Blvd ORGANIZATION TCM % SUBMITTAL FOR 60

Table with 6 columns: REF. NO., PAGE NO., DRAWING NO./ SPEC. SECTION, COMMENTS, RESPONSE, ACTION. Contains handwritten entries A through J detailing design review comments and responses.

DESIGN REVIEW COMMENTS

REVIEWER CEJONES FILE NO. \_\_\_\_\_ ORGANIZATION TCM  
60 % SUBMITTAL FOR 6-325

| REF. NO. | PAGE NO. | DRAWING NO./ SPEC. SECTION | COMMENTS   | RESPONSE    | ACTION |
|----------|----------|----------------------------|--|-------------|--------|
| ✓        | 69       | UT-1146                    | Believe "W" symbol should be shown on abbreviations page 4 as well as page UT-1144 | Will Do NY  |        |
| K        | 92       | CE-1125                    | Where is "Notes referenced" CE-1201?   | Will Add UN |        |
| L        | 93       | CE-1126                    | Add curb return data!  | Will Do NY  |        |
| M        | 94       | CE-1127                    | " " " "  | do          |        |
|          | 95       | -1128                      | " " " "  | do NY       |        |
|          | 96       | -1129                      | " " " "  | do          |        |
|          | 97       | -1130                      | " " " "  | do          |        |
| N        | "        | "                          | Correct spelling of Catholic Welfare Bureau de Bureau                              |             |        |
| O        | 98       | CE-1131                    | Add curb return data.  | do          |        |
|          | 99       | -1132                      | " " " "  | do NY       |        |
|          | 100      | -1133                      | " " " "  |             |        |
|          | 101      | -1134                      | " " " "  |             |        |
|          | 102      | -1135                      | " " " "  |             |        |
| (69)     | 103      | -1136                      | " " " "  |             |        |
|          | 104-111  | CE-1137-1144               | " " " "  |             |        |

DESIGN REVIEW COMMENTS

REVIEWER CENONES FILE NO. \_\_\_\_\_ ORGANIZATION TCM  
60 % SUBMITTAL FOR C-325

| REF. NO. | PAGE NO. | DRAWING NO./ SPEC. SECTION | COMMENTS   | RESPONSE              | ACTION |
|----------|----------|----------------------------|--|-----------------------|--------|
| P        | 141      | ARC-1100                   | Identify legend & Notes activity symbols on drawings.  | Will Do <u>UP</u>     |        |
|          | 142      | -1101                      | Same as above where missing.   | do                    |        |
|          | 143      | -1102                      | " " " " "  | } <u>UP</u>           |        |
|          | 145      | -1104                      | " " " " "  |                       |        |
|          | 147      | -1106                      | " " " " "  |                       |        |
| Q        | 154      | ARC-1115                   | Provide missing criteria   | Will Do <u>UP</u>     |        |
| R        | 155      | ARC-1116                   | Provide dimensioning, radii, etc.  | Will Add <u>UP</u>    |        |
| S        | 156      | ARC-1117                   | Add symbol data  | Will Do <u>UP</u>     |        |
| T        | "        | "                          | Proposed "wood seats" design should include provision for backs for more comfortable waiting interval. | Will Review <u>UP</u> |        |
| U        | 157      | ARC-1118                   | Add details  | Will Do <u>UP</u>     |        |
|          | 158      | -1119                      | "  | do <u>UP</u>          |        |



DESIGN REVIEW COMMENTS

REVIEWER C. JONES FILE NO. \_\_\_\_\_ ORGANIZATION TCM  
60 % SUBMITTAL FOR C-325

| REF. NO. | PAGE NO. | DRAWING NO./ SPEC. SECTION | COMMENTS  | RESPONSE               | ACTION |
|----------|----------|----------------------------|---|------------------------|--------|
| V        | 159      | AR-1120                    | Complete symbol information   | Will Do <u>UH</u>      |        |
| W        | "        | "                          | "Strippable" has 2 ps   | Will Correct <u>UH</u> |        |
| X        | "        | "                          | Provide balance of missing graphics and associated details.                     | Will Do <u>UH</u>      |        |
| Y        | 160      | AR-1130                    | Same as above.  | do                     |        |
| Z        | 173      | SE-1112                    | Identify drawings from which sections are taken.                                | Will Do. <u>UH</u>     |        |
| A'       | "        | "                          | Identify drawing number for steel conduit elbows absent in Typ. Section A plan. | Will Do <u>UH</u>      |        |
| B'       | "        | "                          | <sup>see Notes</sup> Where is referenced, drawing G1-1102                       | Will Add <u>UH</u>     |        |
| C'       | "        | "                          | Steel hatch should be specified galvanized.                                     | Will Do <u>UH</u>      |        |
| D'       | "        | "                          | Det. AB-1: Bottom template un-necessary.  | Will Review <u>UH</u>  |        |



Southern California Rail Consultants

REVIEW COMMENTS

DATE 11-6-86 SHEET 5 OF 6

VIEWER CE JONES ORGANIZATION & DIVISION TCM FINAL DESIGN [checked] SUBMITTAL 60% C-325 PRELIMINARY ENGINEERING [unchecked]

Table with 3 columns: REF NO., PAGE NO., DRAWING NO./SPEC. SECTION, COMMENTS BY REVIEWER, RESPONSE/ACTION. Contains handwritten review notes for drawings SE-1112, SE-1113, CE-1111, CE-1120, TK-1105, TK-1106, TK-1107, TK-1108, TK-1110.

PADS OF REVIEW COMMENTS SHEETS AVAILABLE AT SCRC'S OFFICE SERVICES

DESIGN REVIEW COMMENTS

REVIEWER CE JONES FILE NO. \_\_\_\_\_ ORGANIZATION TCM  
60 % SUBMITTAL FOR C-325

| REF. NO. | PAGE NO. | DRAWING NO./ SPEC. SECTION | COMMENTS   | RESPONSE                        | ACTION |
|----------|----------|----------------------------|--|---------------------------------|--------|
| N'       | 194      | TK-1110                    | Identified reference drawing number is required for elastomer pad shown in elevation | Will do <u>NP</u>               |        |
| O'       | 196      | TK-1112                    | Sections A & B are not as prominently depicted as sections C & D. Why change?        | Will review & correct <u>NP</u> |        |
| P'       | "        | "                          | Provide lock washer under nut in Section A detail.                                   | Will do <u>NP</u>               |        |
| Q'       | 198      | TK-1114                    | Add drawing number for Section "A" symbol  | Will do <u>NP</u>               |        |
| R'       | 201      | TK-1120                    | See Notes: Add drawing numbers for notes numbers #1 & #4                             | Will do <u>NP</u>               |        |
| S'       | "        | "                          | Complete "Bill of Material" block  | Will do <u>NP</u>               |        |
| T'       | 202      | TK-1121                    | See R' above   | Will do <u>NP</u>               |        |
| U'       | 203      | TK-1122                    | Add drawing number required by Note #1   | Will do <u>NP</u>               |        |
| V'       | 204      | TK-1123                    | ~ Ditto ~  |                                 |        |

**DESIGN REVIEW COMMENTS**

REVIEWER CEJONES FILE NO. \_\_\_\_\_ ORGANIZATION TCA  
60 % SUBMITTAL FOR C325

| REF. NO. | PAGE NO. | DRAWING NO./ SPEC. SECTION | COMMENTS  | RESPONSE     | ACTION |
|----------|----------|----------------------------|---|--------------|--------|
| W'       | 212      | OC-1100                    | Complete information schedules  | Will do (up) |        |
| X'       | 213      | OC-1101                    | Ditto ↗   | }            |        |
| Y'       | 214      | OC-1102                    | Ditto ↗   |              |        |
|          |          |                            | <p>ALL WILL BE COMPLETED<br/>BY 85%. THIS IS A<br/>60% SUBMITTAL AND<br/>THEREFORE NOT COMPLETE</p> |              |        |
| (74)     |          |                            |   |              |        |



Southern California Rail Consultants

REVIEW COMMENTS

DATE Nov. 6, 1986 SHEET 1 OF

REVIEWER Joan A Kugler ORGANIZATION & DIVISION Mupa L. Frank & Assoc. FINAL DESIGN [checked] SUBMITTAL 60% Review Willow to Ocean C-325 PRELIMINARY ENGINEERING [unchecked]

Table with 5 columns: REF. NO., PAGE NO., DRAWING NO. SPEC. SECTION, COMMENTS BY REVIEWER, RESPONSE/ACTION. Contains 5 rows of review comments regarding stationing and drawing details.



Southern California Rail Consultants

REVIEW COMMENTS

DATE 11/6/86 SHEET 2 OF

REVIEWER J.A. Kugler ORGANIZATION & DIVISION Myra L. Lamb + Assoc. FINAL DESIGN [checked] SUBMITTAL 60% Review Final C-235 PRELIMINARY ENGINEERING [unchecked]

Table with 3 columns: REF. NO., PAGE NO., DRAWING NO. SPEC. SECTION, COMMENTS BY REVIEWER, RESPONSE/ACTION. Contains handwritten entries for tree well locations and missing notes.



# Southern California Rail Consultants

## REVIEW COMMENTS

DATE 11/5/86  
SHEET 1 OF 6

REVIEWER S.K. BRAVKIS ORGANIZATION & DIVISION SCRC - TRACKWORK FINAL DESIGN   
SUBMITTAL C325 WILLOW STA. TO OCEAN BLVD. PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER                                    | RESPONSE/ACTION        |
|----------|----------|---------------------------|---|------------------------|
|          | ii       | General                   | INCLUDE EMBEDDED TRACK SECTION.                         | Will Do <del>NA</del>  |
|          |          | 02452                     | REVISE THESE SECTIONS TO COMPLY WITH                    | Will Do <del>NA</del>  |
|          |          | 02456                     | FORMAT OF GUIDE LINE SPECIFICATIONS AS                  |                        |
|          |          | 02457                     | PREPARED BY THE SCRC TECHNICAL SERVICES                 |                        |
|          |          | 02460                     | DIVISION.   |                        |
|          |          | 02463                     |   |                        |
|          | 5        | 02452                     | THERE IS NO BALLASTED TRACK CONSTRUCTION                | Will Do <del>NA</del>  |
|          |          | 3.63.1.                   | TOLERANCE LISTED IN SECTION 02450, AS CALLED            |                        |
|          |          |                           | OUT HERE. PLEASE SPECIFY.                               |                        |
|          | 1        | 2450                      | CONTRACT C325, WILLOW STA TO OCEAN BLVD, WILL           | TRACKWORK SPECS ARE    |
|          |          |                           | THERMITE WELD THE RAIL AFTER IT HAS BEEN                | BEING COORDINATED WITH |
|          |          |                           | WELDED INTO LONG STRINGS BY THE ELECTRIC FLASH          | C258                   |
|          |          |                           | BUTT METHOD. THIS LATTER WELDING METHOD WILL            |                        |
|          |          |                           | BE DONE IN CONTRACT C258, TRACKWORK                     |                        |
|          |          |                           | INSTALLATION. SUGGEST REVISING THIS SECTION             |                        |
|          |          |                           | AND MAKING TWO: "THERMITE WELDING OF RAIL,"             |                        |
| 77       |          |                           | AND "CONTINUOUSLY WELDED RAIL," OR EQUIVALENT,          |                        |
|          |          |                           | AND INCORPORATING THEM INTO THEIR RESPECTIVE CONTRACTS. |                        |



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REVIEW COMMENTS

DATE 11/6/86 SHEET 2 OF 6

REVIEWER S.K. BRAUKIS ORGANIZATION & DIVISION SCRC - TRACKWORK FINAL DESIGN [X] SUBMITTAL C 325 - WILLOW STA TO OCEAN BLVD. 60% PRELIMINARY ENGINEERING [ ]

Table with 3 columns: REF. NO., PAGE NO., DRAWING NO. SPEC. SECTION, COMMENTS BY REVIEWER, RESPONSE/ACTION. Contains handwritten entries for items 9, 15, 22, 62, 20, 60, and 70.





# Southern California Rail Consultants

## REVIEW COMMENTS

DATE 11/6/86  
SHEET 3 OF 6

REVIEWER S.K. BRAUKIS ORGANIZATION & DIVISION SCRC- TRACKWORK

FINAL DESIGN

SUBMITTAL C325- 60% WILLOW TO OCEAN

PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION       |
|----------|----------|---------------------------|--|-----------------------|
|          | 108      | CE-1141                   | SHOW POINT OF SWITCH SYMBOL AS PER YOUR  | WILL DO <del>BM</del> |
|          | 115      | CE-1148                   | STANDARD SYMBOLS DRWG. NO- CES-0006,   |                       |
|          | 116      | CE-1149                   | AND SHOW ON TURNOUT SIDE OF TRACK.   |                       |
|          | 117      | CE-1199                   |  |                       |
|          | 118      | CE-1200                   |  |                       |
|          | 122      | CE-1155                   | SINCE SCALE OF DRAWING EXAGGERATES RAIL, PLEASE  | OK <del>BM</del>      |
|          | 123      | CE-1156                   | CALL OUT ONCE THAT 4'-8 1/2" IS "GAGE (TYP.)"  |                       |
|          | 188      | CE-1118                   | LIMIT OF CROSSOVER INCORRECT, PLEASE SHOW FROM P.S. TO P.S., WITH PROPER DEFINITION: SINGLE CROSSOVER, WITH 190- FT. RADIUS TURNOUT. USE PROPER SYMBOL FOR POINTS OF SWITCH. | OK <del>BM</del>      |
|          | 190      | CE-1120                   | LIMIT OF CROSSOVER INCORRECT, PLEASE SHOW FROM P.S. TO P.S. USE PROPER SYMBOL FOR P.S.   | OK <del>BM</del>      |
|          | 191      | CE-1121                   | SHOW PROPER SYMBOL FOR P.S. ON TURNOUT SIDE OF TRACK.  | OK <del>BM</del>      |
| 79       |          |                           |  |                       |



Southern California Rail Consultants

REVIEW COMMENTS

DATE 11/6/86 SHEET 4 OF 6

REVIEWER S.K. BRAUKIS ORGANIZATION & DIVISION SCRC- TRACKWORK FINAL DESIGN [ ]
SUBMITTAL C325- WILLOW TO OCEAN BLVD. 60% PRELIMINARY ENGINEERING [ ]

Table with 4 columns: REF. NO., PAGE NO., DRAWING NO. SPEC. SECTION, COMMENTS BY REVIEWER, RESPONSE/ACTION. Contains handwritten entries for ref. 81 and 87, 88, 89, 90.



Southern California Rail Consultants

**REVIEW COMMENTS**

DATE 11/6/86  
SHEET 5 OF 6

REVIEWER S. K. BRAUKIS ORGANIZATION & DIVISION SCRC - TRACKWORK FINAL DESIGN   
SUBMITTAL C325 - WILLOW TO OCEAN 60% PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER  | RESPONSE/ACTION            |
|----------|----------|---------------------------|---|----------------------------|
|          | 149      | AR-1108                   | SHOW SINGLE CROSSOVER. MAY CONFLICT WITH LANDSCAPING AND TREE RELOCATION. SHOW POINT OF SWITCH, AS THERE WILL BE A SWITCH MACHINE LOCATED HERE. | WILL DO <i>[Signature]</i> |
|          | 152      | AR-1111                   | SHOW POINTS OF SWITCH.  | WILL DO <i>[Signature]</i> |
|          | 153      | AR-1112                   |   |                            |
|          |          |                           |   |                            |
|          |          |                           |   |                            |
|          |          |                           |   |                            |
|          |          |                           |   |                            |
|          |          |                           |   |                            |
|          |          |                           |   |                            |
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|          |          |                           |   |                            |
|          |          |                           |   |                            |
|          |          |                           |   |                            |
|          |          |                           |   |                            |
| 81       |          |                           |   |                            |



Southern California Rail Consultants

REVIEW COMMENTS

DATE 11/6/86
SHEET 6 OF 6

REVIEWER S. K. BRAUKIS ORGANIZATION & DIVISION SCRC- TRACK WORK
SUBMITTAL C325- WILLOW TO OCEAN 60%

FINAL DESIGN [checked]

PRELIMINARY ENGINEERING [unchecked]

Table with 4 columns: REF. NO., PAGE NO., DRAWING NO. SPEC. SECTION, COMMENTS BY REVIEWER, and RESPONSE/ACTION. Contains handwritten review notes and responses.

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**Southern California Rail Consultants**

**REVIEW COMMENTS**

DATE November 5, 1986

SHEET 1 OF 1

REVIEWER H. Schweitzer ORGANIZATION & DIVISION Comstock Engineering, Inc.

FINAL DESIGN

SUBMITTAL Willow Station to Ocean Blvd (C325) In-Progress 60% Review Submittal WBS: N380

PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION  |
|----------|----------|---------------------------|--|--|
| 1        | 201      | TK-1120                   | Insulated joints not required for non-signaled special work.   | TRUE DON/MS  |
| 2        | 202      | TK-1121                   | Insulated joints not required for non-signaled special work.   | TRUE DON/MS  |
| 3        | 194      | TK-1110                   | Where used?  | OPPOSITE FROG (E - TK-1111, TK-1112), ETC.   |
| 4        | 196      | TK-1112                   | Insulated gage rods required. <i>THERE ARE NO GAGE RODS ON THE</i>   | <i>DUGS (OR ANYWHERE). THE SWITCH</i>  |
| 5        | 198      | TK-1114 a)                | How can this layout work in embedded track? b) Also how is switch stand mounted? c) Insulated joints and insulated rods not required if switch is not interlocked. | <i>MACHINE WILL BE INSULATED BY A RUBBER PAD. AGREE. DON/MS</i>  |
| 6        | 200      | TK-1116                   | How can this layout work in embedded track? Also how is switch stand mounted? Insulated joints and insulated rods are not required if switch is not interlocked.   | <i>5 a) THE AREA BETWEEN THE SWITCH PT. &amp;HEEL BLOCK MUST REMAIN OPEN. b) SWITCH STAND IS MOUNTED ON 14' SWITCH TIMBER (NOT SHOWN) WITH A STAND MOUNTED FLUSH WITH THE PAVEMENT. THE RODS MUST BE FREE TO MOVE &amp; NOT PAVED OVER. c) INSULATED JOINTS NOT REQD. IF SWITCH IS NOT INTERLOCKED. TRUE. DON/MS</i> |
|          |          |                           |  | <i>6. TK-1116 - SAME ANSWERS AS # 5. DON/MS</i>  |
| 84       |          |                           |  |  |



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REVIEW COMMENTS

DATE Oct. 31, 1986 SHEET 1 OF 1

REVIEWER R. AvLo ORGANIZATION & DIVISION KECC FINAL DESIGN [X] SUBMITTAL 60% REVIEW Willow Station To Ocean Blvd RO1-701-C325 PRELIMINARY ENGINEERING [ ]

Table with 4 columns: REF. NO., PAGE NO., DRAWING NO. SPEC. SECTION, COMMENTS BY REVIEWER, and RESPONSE/ACTION. Contains two main entries regarding utility interface manholes and ducts for OCS feeder poles.

85

B. Wilson



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NOV 12 1986

App'd.....

DATE Oct 29, 80  
SHEET 1 OF 3

REVIEWER Mayola / Lee

ORGANIZATION & DIVISION SDD - Traction Power

SUBMITTAL In-Progress 60%

C325 WBS: N380

FINAL DESIGN

PRELIMINARY ENGINEERING

| REF NO. | PAGE NO. | DRAWING NO./ SPEC. SECTION | COMMENTS BY REVIEWER  | RESPONSE/ACTION  |
|---------|----------|----------------------------|---|--|
| TP1     |          | UT-1125                    | "C" channel should be cast-in-place in 4-walls.   | DONT AGREE-THIS WAS DISCUSSED <sup>FOR</sup> DURING THE C315 AND IT WAS AGREED THAT IT WOULD NOT BE CAST <sub>IN PLACE</sub> |
| TP2     |          | "                          | Type I handhole / pullbox dimension is 6' x 5'  | WILL DO <i>J</i>   |
| TP3     |          | "                          | Manhole / handhole cover label is "LRT TPSS HIGH VOLTAGE"   | WILL CORRECT <i>J</i>  |
| TP4     |          | Gen                        | Develop a drawing showing handhole manhole four walls indicating ductbank entrances.  | Will Do <i>HW</i>  |
| TP5     |          | Gen                        | Make note that min. 3" per 100'-0" slope to provide positive drainage to manhole is required. Splice box or pull box shown has 4'-0" minimum depth. Some splice boxes will be more than 4'-0" depth for the slope required. | AGREE  |
| 86      |          |                            | PADS OF REVIEW COMMENTS SHEETS AVAILABLE AT SCRC'S OFFICE SERVICES  |  |





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DATE Oct 29, 86  
SHEET 2 OF     

REVIEWER Mayola / Lee ORGANIZATION & DIVISION SDD - Traction Power  
SUBMITTAL In-progress Coj. C325 WBS: N380

FINAL DESIGN

PRELIMINARY ENGINEERING

| REF NO. | PAGE NO. | DRAWING NO./ SPEC. SECTION | COMMENTS BY REVIEWER  | RESPONSE/ACTION                         |
|---------|----------|----------------------------|---|---|
| TPG     |          | UT-1141<br>to<br>UT-1167   | (a) Provide Traction Power ductbank profiles  | WILL DO. REQUIRE EXTRA SHEETS. <i>J</i> |
|         |          |                            | (b) Advance information on ductbank layout and location of manhole/splice boxes were given awhile ago. Complete ductbank layout | WILL ADD SOME MORE INFORMATION <i>J</i> |
|         |          |                            | (c) Change T/P to TPSS  | <i>OK</i> <i>ROM</i>                    |
|         |          |                            | (d) Show ductbank sections  | WILL DO <i>J</i>                        |
|         |          |                            | (e) Indicate splice boxes identification. ?   |   |
|         |          |                            | (f) Show Traction Power substation and ductbank to it along Esther St. & Broadway/Em.   | WILL DO <i>J</i>                        |
| 87      |          |                            | PADS OF REVIEW COMMENTS SHEETS AVAILABLE AT SCRC'S OFFICE SERVICES  |   |



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DATE Oct 29, 86  
SHEET 3 OF 3

REVIEWER Mayola / Lee ORGANIZATION & DIVISION SDD - Traction Power

SUBMITTAL In-Progress 60% C325. WBS: N380

FINAL DESIGN

PRELIMINARY ENGINEERING

| REF NO. | PAGE NO. | DRAWING NO./ SPEC. SECTION | COMMENTS BY REVIEWER  | RESPONSE/ACTION  |
|---------|----------|----------------------------|---|--|
| TP7     |          | TK-1106                    | Change "catenary pole" to "OCS pole"  | OK <del>PA</del>   |
| TP8     |          | Gen                        | <p>a) Traction Power negative duct bank 6-4" conduit shall be shown from Traction Power substation to running rail.</p> <p>b) Provide conduit identification or tags.</p> | ?<br><br>THIS WAS TO BE PROVIDED BY MR SYSTEMS GROUP - LET'S DISCUSS AGAIN         |
| TP9     |          | OC-1103                    | A latest version of this drawing is available at configuration office. This show a standard drawing.  | IF A LATER DRAWING IS AVAILABLE PLEASE FURNISH SAME TO DTM. HQ. C. Elliott has it. |
| 88      |          |                            | PADS OF REVIEW COMMENTS SHEETS AVAILABLE AT SCRC'S OFFICE SERVICES  |  |



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**REVIEW COMMENTS**

DATE 11/5/86  
SHEET \_\_\_\_\_ OF \_\_\_\_\_

REVIEWER Mayola/Lee ORGANIZATION & DIVISION SDO

SUBMITTAL 100% C325

FINAL DESIGN

PRELIMINARY ENGINEERING

| REF NO. | PAGE NO. | DRAWING NO./ SPEC. SECTION | COMMENTS BY REVIEWER .   | RESPDNSE/ACTION  |
|---------|----------|----------------------------|--|--|
| TP10    |          | general                    | will need 4'x6' area for 2 motorized disconnect switches near <del>at</del> the 1st st passenger station.  | ? Please provide memo to S. Noujaim with details including height reqts., etc. |
| TP11    |          | general                    | lateral feed underground ducts to other side of LB Blvd from OCS handholes at OCS feeder locations missing | WILL SHOW <i>J</i>   |
| TP12    |          | general                    | TPSS interface manhole (8'x10') not shown in TP duct blank... 1 @ Ester, 1 @ B'way                         | WILL SHOW <i>J</i>   |
| 89      |          |                            | PADS OF REVIEW COMMENTS SHEETS AVAILABLE AT SCRC'S OFFICE SERVICES   |  |



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Ans'd.....

DATE 10/24/86  
SHEET 1 OF 3

REVIEWER JOVEN BUMATAY / TONY V. PALLOSTOKOS ORGANIZATION & DIVISION PIE FINAL DESIGN   
SUBMITTAL C 325 60% PRELIMINARY ENGINEERING

| REF NO. | PAGE NO. | DRAWING NO./ SPEC. SECTION  | COMMENTS BY REVIEWER  | RESPONSE/ACTION       |
|---------|----------|-----------------------------|---|-----------------------|
| 1       |          | LIT 1141<br>THRU<br>UT 1167 | 1. OCS SUPPORTS NORTH OF 27 <sup>TH</sup> STREET NOT SHOWN  | WILL SHOW. <i>J</i>   |
|         |          |                             | 2. OCS SUPPORTS AT INTERSECTION OF WILLOW ST. IS MORE THAN 120 FT.  | WILL CORRECT <i>J</i> |
|         |          |                             | 3. ALIGN OCS SUPPORTS WITH CANOPY SUPPORTS IF POSSIBLE AT PCH STATION   | WILL CORRECT <i>J</i> |
|         |          |                             | 4. LOCATE T/P SPlice BOXES TO KEEP ELECTRICAL DUCT BANKS AWAY FROM OCS FOUNDATIONS AT A DISTANCE EQUAL OR MORE THE DEPTH OF OCS SUPPORT FOUNDATION. | ?                     |
|         |          |                             | 5. THERE IS A CROSSOVER BETWEEN POLES NOS. 3117 AND 3119. OCS POLES SHALL BE AT MIDPOINT OF PI AND PS (TYPICAL)                                     | WILL DO <i>J</i>      |
| 90      |          |                             | PADS OF REVIEW COMMENTS SHEETS AVAILABLE AT SCRC'S OFFICE SERVICES  |                       |



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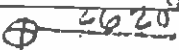

Ans'd:.....

DATE 10/29/86  
SHEET 2 OF 3

REVIEWER J. BUNATAY / TONY V. BALLESTEROS  
ORGANIZATION & DIVISION PIE

SUBMITTAL C 325 60%

FINAL DESIGN [ ]  
PRELIMINARY ENGINEERING [ ]

| REF NO. | PAGE NO. | DRAWING NO./ SPEC. SECTION | COMMENTS BY REVIEWER  | RESPONSE/ACTION              |
|---------|----------|----------------------------|---|------------------------------|
|         |          | CONT.                      | 6. UCS SUPPORTS NO. 3174 TO 3179, NO. 3182 TO 3187 NOT SHOWN.   | WILL SHOW <i>J</i>           |
|         |          |                            | 7. LOCATE POLE NO. 3192 AND 3193 AT MIDPOINT OF PS AND PI.  | WILL DO <i>J</i>             |
|         |          |                            | 8. OCS POLE DESIGNATION AND SYMBOL SHOULD BE SHOWN AS PER THE CIVIL AND UTILITY STANDARD SYMBOLS (SEE DING. CDS - 60005.)                 |                              |
|         |          |                            |  <del>6620</del> CATENARY PILE AND NUMBER              | ← WE'RE USING THIS. <i>J</i> |
|         |          |                            |  CATENARY POLE FOUNDATION (THIS SYMBOL SHOULD BE USED) |                              |
| 91      |          |                            | PADS OF REVIEW COMMENTS SHEETS AVAILABLE AT SCRC'S OFFICE SERVICES  |                              |



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DATE 10/29/86  
SHEET 3 OF 3

REVIEWER \_\_\_\_\_ ORGANIZATION & DIVISION \_\_\_\_\_ FINAL DESIGN

SUBMITTAL \_\_\_\_\_ PRELIMINARY ENGINEERING

| REF NO. | PAGE NO. | DRAWING NO./ SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION         |
|---------|----------|----------------------------|--|-------------------------|
|         |          |                            | 9. INDICATE SPLICE BOX DESIGNATION AND NUMBERING SYSTEM  | OK. <i>J</i>            |
|         |          |                            | 10. INDICATE THE SYMBOL ---T/P--- FROM SPLICE BOX TO FEEDER POLES (TYP.)                               | OK. <i>J</i> ---TPSS--- |
| 2       |          | UT-1151<br>& UT-1104       | 1. SHOW MANHOLE INTERFACE BETWEEN TPS/S AND UNDERGROUND TRACTION POWER. DUCT BANK RUNS TO SPLIT BOYES. | OK. <i>J</i>            |
|         |          |                            | PADS OF REVIEW COMMENTS SHEETS AVAILABLE AT SCRC'S OFFICE SERVICES                                     |                         |

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DATE 10-29-86

SHEET 1 OF 1

REVIEWER TONY V. BALLESTEROS ORGANIZATION & DIVISION PIE

SUBMITTAL C 325 60%

FINAL DESIGN

PRELIMINARY ENGINEERING

| REF NO. | PAGE NO. | DRAWING NO./ SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION              |
|---------|----------|----------------------------|--|------------------------------|
| 1       |          | CE-1155<br>THRU<br>CE-1157 | UNDERGROUND DUCT BANK FOR THE<br>TRACTION POWER IS NOT SHOWN<br>IN THE TYPICAL SECTION | WILL SHOW <i>(signature)</i> |
|         |          |                            |  |                              |
|         |          |                            |  |                              |
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|         |          |                            |  |                              |
| 93      |          |                            | PADS OF REVIEW COMMENTS SHEETS<br>AVAILABLE AT SCRC'S OFFICE SERVICES                  |                              |



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DATE 11-10-86

SHEET 1 OF

REVIEWER B. Wilson

ORGANIZATION & DIVISION SCRC Facs Design

FINAL DESIGN [X]

SUBMITTAL 6070 C325

PRELIMINARY ENGINEERING [ ]

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER  | RESPONSE/ACTION   |
|----------|----------|---------------------------|---|---|
| 1.       |          | GI-1102                   | Delete Note 2. It's confusing and applies to only 2 sheets. Instead, add to Sheets CE-1110 and CE-1111 : SPTC tracks shown on background of plan have been removed from <del>the</del> Commission owned property. | OK MM   |
| 2.       |          | "                         | Add d) Underground Services Alert Tel: 1-800-422-4133 to Note 11.   | OK MM   |
| 3.       |          | "                         | Include Emergency Nos for all utility cos. in general notes with note that all should be notified 48 hours in advance of excavation.  | WILL INCLUDE THIS. PLS. FURNISH THE EMERGENCY TEL. #S. I sent them to D. Irish (BAW) MM |
| 4.       |          | "                         | Delete Notes 15 & 20  |   |
| 5.       |          | GI-1104                   | Something is weird about <sup>how the</sup> the northern contract limit is shown on the 2 different areas. On CE-1125, STA 7+76.69 is shown as parallel to 27 <sup>th</sup> Street.                               | WILL ADJUST MM  |
| 94       |          |                           |   |   |





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DATE 11/10 SHEET 2 OF

REVIEWER BAW ORGANIZATION & DIVISION FACS DES. SCRC FINAL DESIGN [X] SUBMITTAL C325 607 PRELIMINARY ENGINEERING [ ]

Table with 3 columns: REF. NO., PAGE NO., DRAWING NO. SPEC. SECTION, COMMENTS BY REVIEWER, RESPONSE/ACTION. Contains handwritten review notes and responses regarding stationing and sheet sequencing.



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Ans'd.....

DATE 11/11/86  
SHEET 3 OF     

REVIEWER BAW ORGANIZATION & DIVISION SCRC Facs Des. FINAL DESIGN   
SUBMITTAL T325 60% PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION                   |
|----------|----------|---------------------------|--|-----------------------------------|
| 8.       |          | UT-1101<br>→ 1125         | There will be corrections to these existing plans as the individual utility co's start looking at them more carefully.<br><br>At some point, SCRC Tech Svs. will need to borrow these <del>out</del> mylar & make the corrections. Because the corrections may not be reflected on the Rearrangement dwg's, unless DPMI makes them, suggest you add a General Note to the effect that the Contractor should refer to the Utility Composite Drawings for existing conditions. | Will Do 11/11<br><br>OK <u>MM</u> |
| 9.       |          | UT-1115                   | This sheet is misnamed and out of place. These aren't utility details; they are TPSS and C/S Details.  | will correct <u>MM</u>            |
| 96       |          |                           |  |                                   |



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DATE 11/11/86

SHEET 4 OF     

REVIEWER BAW

ORGANIZATION & DIVISION Facs Design SRCC

FINAL DESIGN

SUBMITTAL 60% C325

PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION  |
|----------|----------|---------------------------|--|--|
| 2        |          | UT-1115                   | If this is on CAD, it would be better to make 2 sheets out of; one for C/S details and one for TPSS details  | THIS SHEET SHOWS ONLY C/S DETAILS. THE TPSS DETAILS ARE IN UT-1125 EAS |
| 10.      |          | UT-1116                   | Not a Utility Details sheet. This is a schedule of C/S Manholes & Handholes.   | YES. WILL REVISE TITLE. BAW  |
| 11.      |          | UT-1125                   | Same as 9 above, <del>make</del> separate C/S from TPSS  | WILL REVISE. BAW   |
| 12.      |          | UT-1125                   | Cable Rack Detail (1) Based on discussions with H. Spitzer and S. Lee, I believe the cable rack is part of the contract.                             | OK BAW   |
| 13.      |          | CE-1180<br>→ 1185         | As agreed earlier: These should be 1"=20' scale drawings so that PSDMAS' base maps can be used. Too much chafing involved in updating 1"=50' scales. | CE-1180 thru CE-1192 (13 SHEETS) DEMOLITION DWGS - WILL BE 1"=20' BAW  |
| 97       |          |                           |  |  |



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DATE 11-11-86

SHEET 5 OF

Ans'd.....

REVIEWER BAW

ORGANIZATION & DIVISION FAES DESIGN

SCRC

FINAL DESIGN

SUBMITTAL 60% CB25

PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER  | RESPONSE/ACTION  |
|----------|----------|---------------------------|---|--|
| 14.      |          | UT-1140                   | Same as <del>#6</del> #7  | SAME REPLY <del>MM</del>   |
| 15.      |          | UT-1141<br>thru-1167      | J. Cummings has indicated that the warrants<br>a/s Duct under trackways. Manholes are not under track.  | WILL DISCUSS   |
| 16.      |          | UT-1142<br>→ 1167         | Show proposed locations of traffic signals<br>pole foundations on next submittal<br>85%. (DKS can assist if needed.)<br>OCS poles should be located at least<br>10 feet away from TS poles. | OK <del>MM</del>   |
| 17.      |          | UT-1144                   | How do I tell which irrigation <del>facilities</del><br>facilities are new (part of this<br>work) and which are existing?   | NEW - solid lines<br>EXISTING - SCREENED OR DASHED<br>LINES<br><del>MM</del> |
| 18.      |          | UT-1141<br>→ 1167         | Don't forget to show profile of OCS feeder<br>duct besides c/s duct. You may<br>need to use other sheets.   | Yes <del>MM</del>  |
| 98       |          |                           |   |  |



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Ans'd.....

DATE 11/11/86 SHEET 6 OF

REVIEWER BAW ORGANIZATION & DIVISION FACS. FINAL DESIGN [ ] SUBMITTAL CB25 609. PRELIMINARY ENGINEERING [ ]

Table with 3 columns: REF. NO., PAGE NO., DRAWING NO. SPEC. SECTION, COMMENTS BY REVIEWER, RESPONSE/ACTION. Contains handwritten entries for items 20, 21, 22, 23, and 99.



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## REVIEW COMMENTS

REVIEWER BAW ORGANIZATION & DIVISION FAOS. DESIGN DATE 11/11/86  
 SUBMITTAL 60% - C325 PRELIMINARY ENGINEERING  FINAL DESIGN

RECEIVED NOV 12 1986  
 SHEET 7 OF       
 Ans'd.....

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION  |
|----------|----------|---------------------------|--|--|
| 24.      |          | CE-1127                   | Left turn opening in median - where does the 3" mountable curb end? Are the curved lines paint lines or do they show the available space for turning vehicles. | THE CURVED LINES WILL BE PAINTED THAT IS WHY THEY ARE DASHED. THE MOUNTABLE CURB WILL END AT THE BEGINNING/END OF CURVE. THEY WILL BE LABELED. <b>KRM</b>        |
| 25.      |          | CE-1127<br>→ 1200         | 25 <sup>th</sup> Street: Need a small radius on corner of median.  | THE MEDIANS WILL ALSO BE MOUNTABLE CURBS TAPERING FROM 3" ABOVE GRADE TO ZERO AT EDGE OF POSSIBLE CROSSWALK. DONT SEE USE OF SMALL RADIUS AT CORNERS. <b>KRM</b> |
| 26.      |          | CE-1126<br>→ 1200         | What about existing driveways. Will you show them like on CE-1199?   | YES <b>KRM</b>   |
| 27.      |          | CE-1127                   | Use smaller curb return radius on NW corner of 25 <sup>th</sup> to avoid modificat'n to nearby driveway.   | THE RADIUS IS ALREADY 20 FT. A 15' R WILL CLEAR IT. <b>KRM</b>   |
| 28A      |          | CE-1128                   | There are things on other corners that look like they'll be affected. Be sure to field check what your affecting before as part of finalizing curb returns.    | OK <b>KRM</b>  |
| 100      |          |                           |  |  |



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Ans'd.....SRCRC

DATE 11/11/86  
SHEET 8 OF

REVIEWER BAW ORGANIZATION & DIVISION FACS. DES. SRCRC FINAL DESIGN   
SUBMITTAL 60% C325 PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER  | RESPONSE/ACTION  |
|----------|----------|---------------------------|---|--|
| 28B      |          | CE-1128                   | same as # 27  | WE NEED A 12' R TO CLEAR RAMP<br>AM  |
| 29.      |          | CE-1127<br>→ 1200         | Where are the wheel chair ramps.<br>Remember to use CALTRANS standard for them.                                     | will be indicated<br>AM<br>will use CALTRANS STD. FOR FCH. CUB STD. FOR NORTH OF 7TH<br>AM |
| 30.      |          | CE-1128                   | Sidewalk widths on Burnett near building corners look skimpy -- you need to adjust radii.                           | NOT IF I GET THE 8' MIN. CLEARANCE.<br>AM  |
| 31.      |          | CE-1129                   | upper right hand corner: separate word "walk" from "BUS STOP".  | OK<br>AM   |
| 32.      |          | CE-1127<br>→ 1200         | What about wells or openings in sidewalks for street trees. Will these be shown on 85% or are sidewalks too narrow. | THEY WILL BE SHOWN AND IN THE TREE RELOCATION PLANS ALSO.<br>AM                            |
| 101      |          |                           | (Direct to K. Henry)  |  |



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**REVIEW COMMENTS**

RECEIVED  
NOV 12 1986  
Ans'd

DATE 11/11/86  
SHEET 9 OF     

REVIEWER BAW ORGANIZATION & DIVISION FACS DES SCRC FINAL DESIGN   
SUBMITTAL 60% C325 PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION   |
|----------|----------|---------------------------|--|---|
| 33       |          | CE-1132<br>e others       | What will happen to grass parking strips in sidewalk areas?<br><br>(K. Henry)  | WHERE THEY ARE 4' OR GREATER AFTER THE CURB IS MOVED THEY WILL REMAIN. WHERE THEY ARE LESS THAN 4', CONC. WILL BE INSTALLED. K.H. |
| 34       |          | CE-1127<br>→ 1200         | Bus stop pads missing in some areas.   | WILL CHECK. <del>PM</del>   |
| 35       |          | CE-1135<br>and others     | Arch. Directive for these stations show 6" difference bet'n crosswalk elevation and ramp entrance level.   | CROSS WALK & RAMP ENTRANCE LEVEL HAVE SAME ELEV. ALONG LONG. Φ & BOTH ARE 0.50' HIGHER THAN T/R. <del>PM</del>                    |
| 36       |          | CE-1135                   | It looks like the Commission needs to buy some R/W (corner cuts). Based on these plans please submit a memo or letter delineating property lines so we can get them certified. | YES. THREE OF THEM AT PCH. WILL SUBMIT A MEMO. <del>PM</del>  |
|          |          |                           | I assume that you're not proposing buying building corners.  | ALL CORNERS EXCEPT THE SW ARE VACANT. PER PERUM PHOTO. <del>PM</del>  |
| 102      |          |                           |  | WILL VERIFY IN FIELD.   |



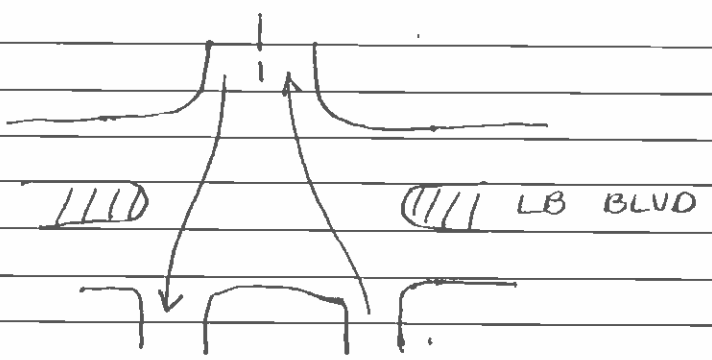


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REVIEW COMMENTS

REVIEWER Wilson ORGANIZATION & DIVISION FACS DESIGN  
SUBMITTAL 60% C325

RECEIVED  
NOV 12 1986  
DATE 11/11/86  
SHEET 10 OF       
FINAL DESIGN   
PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER  | RESPONSE/ACTION                                  |
|----------|----------|---------------------------|---|--|
| 37       |          | CE-1137                   | Sidewalk on SW corner of 16 <sup>th</sup> looks skimpy. Clearance between curb & property line                    | IT IS MINIMUM 11' ± AROUND CORNER OF P.L.<br>MAY |
|          |          |                           | Refer to meeting minutes of 6-30-86 meeting with City for guidelines. City wants 10' on main streets, 8' minimum. |  |
| 38       |          | CE 1139                   | Cut back median at 14 <sup>th</sup> to allow for through auto movements across Blvd.                              | OK MAY   |
|          |          |                           |                                |  |
| 103      |          |                           |   |  |



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REVIEW COMMENTS

RECEIVED NOV 12 1986 Ans'd.....

DATE 11/11/86 SHEET 11 OF

REVIEWER BAW ORGANIZATION & DIVISION SCRC FACS

FINAL DESIGN [ ]

SUBMITTAL C325 60%

PRELIMINARY ENGINEERING [ ]

Table with 4 columns: REF. NO., PAGE NO., DRAWING NO. SPEC. SECTION, COMMENTS BY REVIEWER, RESPONSE/ACTION. Contains handwritten review notes and responses.



Southern California Rail Consultants

REVIEW COMMENTS

DATE 11/11/86 SHEET 12 OF

REVIEWER BAW ORGANIZATION & DIVISION SCRC FAES, AUST. RECEIVED NOV 12 1986 FINAL DESIGN PRELIMINARY ENGINEERING

Table with 3 columns: REF. NO., PAGE NO., DRAWING NO. SPEC. SECTION, COMMENTS BY REVIEWER, RESPONSE/ACTION. Contains handwritten review notes and responses for items 43 and 44.



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REVIEW COMMENTS

DATE 11/11/86 SHEET 13 OF

REVIEWER B. WILSON ORGANIZATION & DIVISION SCRC FACS.

SUBMITTAL 60% C325

RECEIVED NOV 12 1986 PRELIMINARY ENGINEERING

Table with 4 columns: REF. NO., PAGE NO., DRAWING NO. SPEC. SECTION, COMMENTS BY REVIEWER, RESPONSE/ACTION. Contains handwritten review notes for items 45, 46, 47, 48, and 106.



**Southern California Rail Consultants**

**REVIEW COMMENTS**

DATE 10NOV86  
 SHEET 1 OF 9

REVIEWER J.A. CUMMINGS ORGANIZATION & DIVISION SDD Comm.

FINAL DESIGN

SUBMITTAL 60% F C325 willow to ocean Blvd.

PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION  |
|----------|----------|---------------------------|--|--|
| 1        | General  |                           | <p>the communication/signal ductbank should be shown within the LRT trackway concrete pour</p> <p>the c/s ductbank manholes should be located clear of the LRT trackway. (Clear of trackway is where the manhole entrance is a safe distance from the vehicle dynamic envelope).</p> <p>the c/s ductbank is presently shown ranging from 10 to 20 feet from center line of the N.B. track.</p> | <p>WILL LOCATE TO SUITE. PRESENTLY LOCATED AS PER CRITERIA RECEIVED FROM SYSTEMS GROUP</p> <p>WHAT IS YOUR DEFINITION OF SAFE? PLEASE BE SPECIFIC IN'S</p> <p>SUGGEST WE DISCUSS AT REVIEW MEETING</p> |
|          |          |                           |  | <p>LATEST TRACK BED ADOPTED BY SRCRC/LARTC DOES NOT HAVE A CONCRETE POUR? OR DOES IT</p> <p>ALSO, WHAT IS THE LOAD CARRYING CAPACITY OF THE PREFABRICATED DUCT BANK</p>                                |
| 107      |          |                           |  |  |



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REVIEW COMMENTS

DATE 10 Nov 86

SHEET 2 OF 9

REVIEWER J. A. CUMMINGS ORGANIZATION & DIVISION SDD Comm

FINAL DESIGN [checked]

SUBMITTAL 6020 C325 Willow to ocean Blvd

PRELIMINARY ENGINEERING [unchecked]

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER  | RESPONSE/ACTION |
|----------|----------|---------------------------|---|-----------------|
| 2.       | 70       | UT-1147                   | Please route the communication lateral conduits for the station Communications Interface Cabinets (CIC) from the manhole located at approximately 44 + 30 to the ramp and stair area.<br>CIC'S #1 and #2 are beneath the ramp area.<br>CIC #3 is located beneath the exit stair area.   | Will Do Yes     |
| 3        | 75       | UT 1152                   | The C/S Building is located east of Long Beach Blvd and north of Esther St. Please locate a manhole at the intersection of Long Beach Blvd and Esther Street. Route the required Comm/sig ducts up Esther Street to the C/S Building.<br>Due to the distance between the mainline ductbank and the C/S Building, suggest that 2-2" and 2-2" 8-1/2" ducts be routed from mainline to the C/S Building.<br>see sketch on next sheet | Will Do Yes     |
| 108      |          |                           |   |                 |



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REVIEW COMMENTS

DATE 10 NOV 86

SHEET 3 OF 9

REVIEWER J. A. CUMMINGS ORGANIZATION & DIVISION SDD Comm.

FINAL DESIGN [X]

SUBMITTAL 60% F C325 willow to ocean Blvd.

PRELIMINARY ENGINEERING [ ]

| REF. NO. | PAGE NO.  | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION  |
|----------|-----------|---------------------------|--|--|
| 3        | Continued |                           | <p>SEE SHEET UT-1144 FOR IRRIGATION WATER NOTES<br/>2 E 30,800</p> <p>2-9WAY<br/>2-2INCH<br/>8-1 INCH</p> <p>TOC/S BUILDING</p> <p>ESTHER ST</p> <p>PACIFIC COAST HIGHWAY STATION</p> <p>DMUM CANNOT CHECK THIS M.H. SIZE WITHOUT MORE SPECIFIC CABLE INFO</p> | <p>WILL DO - THIS IS THE TYPE OF SPECIFIC INFO WE NEED.</p> <p>WJF</p> |
| 4        | 75        | UT 1152                   | <p>From the manhole at Esther Street please extend the necessary conduits to the CIC's #1 and #2 located beneath the station ramp.</p> <p>NO CIC #3 required at the PCH station.</p> <p>See sketch on next sheet</p>   |  |
| 109      |           |                           |  |  |



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REVIEW COMMENTS

DATE 10 NOV 86

SHEET 4 OF 9

REVIEWER J. A. CUMMINGS ORGANIZATION & DIVISION SDD Comm.

FINAL DESIGN

SUBMITTAL F 6020 C325 Willow to Ocean Blvd

PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO.  | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER | RESPONSE/ACTION                 |
|----------|-----------|---------------------------|----------------------|---------------------------------|
| 4        | Continued |                           |                      | Will Add To Our Drawings<br>ASR |
| 110      |           |                           |                      |                                 |





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REVIEW COMMENTS

DATE 10 Nov 86  
SHEET 5 OF 9

REVIEWER J. A. CUMMINGS ORGANIZATION & DIVISION SDD Comm.

FINAL DESIGN

SUBMITTAL 60% F C 325 Willow to Ocean Blvd

PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION |
|----------|----------|---------------------------|--|-----------------|
| 5        | 79       | UT 1156                   | <p>Please show the necessary conduit routing to the Anaheim station CIC's.</p> <p>CIC'S #1 and #2 located beneath the ramp while CIC #3 is to be located beneath the exit stairs.</p>                          | Will Do N/A     |
| 6        | 85<br>86 | UT 1162<br>UT 1163        | <p>Please furnish conduit routing to the 6th Street Station CIC's as detailed on the sheets located on the next sheet.</p> <p>CIC #1 = 1-2INCH; 2-2INCH<br/>CIC #2 = 1-2INCH; 6-2INCH<br/>CIC #3 = 3-2INCH</p> | Will Do N/A     |
| 111      |          |                           |  |                 |



Southern California Rail Consultants

REVIEW COMMENTS

DATE 10 NOV 86

SHEET 6 OF 9

REVIEWER J. A. CUMMINGS ORGANIZATION & DIVISION SDD Comm.

FINAL DESIGN [X]

SUBMITTAL 60% F C325 willow to ocean Blvd.

PRELIMINARY ENGINEERING [ ]

| REF. NO. | PAGE NO.  | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER  | RESPONSE/ACTION |
|----------|-----------|---------------------------|---|-----------------|
| 6        | Continued |                           |   | Will Do NY      |
| 7        | 89        | UT1166                    | Please furnish the communication conduits to 1st Street station as shown on sketch below: | Will Do NY      |
| 112      |           |                           |   |                 |





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REVIEW COMMENTS

DATE 10 NOV 86

SHEET 8 OF 9

REVIEWER J.A. Cummings ORGANIZATION & DIVISION SDD COMM

FINAL DESIGN [X]

SUBMITTAL 6020F C325 Willow to ocean Blvd.

PRELIMINARY ENGINEERING [ ]

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER  | RESPONSE/ACTION |
|----------|----------|---------------------------|---|-----------------|
| 9        | 54       | UT-1115                   | <p>Section B shows a note at the ingress or egress elev. - see schedule on SHT. This should have either the note below the figure or an arrow referenced. See annotation below.</p>                 | Will Do<br>MM   |
| 10       | 84       | UT-1161                   | <p>Please show a knockout for 2.5 inch GRS conduits on the west wall of the manhole located at approximately 123+90. These knock-outs are in addition to the normal future knock-outs required.</p> | Will Do MM      |
| 114      |          |                           |   |                 |





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REVIEW COMMENTS

DATE 10-31-86

SHEET 1 OF 1

REVIEWER B. FENG ORGANIZATION & DIVISION SCR TD TFD FINAL DESIGN [

SUBMITTAL WILLOW STATION TO OCEAN BLVD. STATION 60% REVIEW PRELIMINARY ENGINEERING [

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION |
|----------|----------|---------------------------|--|-----------------|
| (1)      | 113      | SE-1112                   | IN TYP. DETAIL 1 & 2, ADDITIONAL TIES SHALL BE PROVIDED AROUND ANCHOR BOLTS WHICH ARE SET IN TOP OF A COLUMN FOR STRUCTURES LOCATED IN SEISMIC ZONES 2, 3 and 4. SEE UBC 2607. III. 3. | Will Add Rebar  |
| (2)      | 173      | SE-1112                   | TYPICAL DETAIL AT SLAB/WALL OPENING/PENETRATION: FOR LARGER OPENINGS ADD'L HORIZ. OR/AND VERT. BARS @ OPENINGS MAY BE REQ'D.   | Will Add Rebars |
| 116      |          |                           |  |                 |

S C R C

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REVIEW COMMENTS

DATE 10/27/86  
SHEET 1 OF 2

VIEWER DENNIS MORI <sup>DAL</sup> / BY JAT. ORGANIZATION & DIVISION SCRIP TFD ARCHITECTURE FINAL DESIGN   
SUBMITTAL LB/LA RAIL TRANSIT PROJECT WILLOW STATION TO OCEAN BLVD 60% REVIEW PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO. | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION                                    |
|----------|----------|---------------------------|--|--|
| 1.       | 141      | AR-1100                   | COMPLETE NOTE REFERENCES FOR TREES ALONG LONG BEACH BLVD   | Will Do <i>HM</i>                                  |
| 2.       | 142      | AR-1101                   | COMPLETE NOTE REFERENCES FOR EMPTY BUBBLES FOR TREES ALONG MEDIAN & AT ST 20+13 & STA 20+36.   | Will Do <i>HM</i>                                  |
| 3.       | 143      | AR-1102                   | COMPLETE NOTE REFERENCES FOR EMPTY BUBBLES FOR TREES ALONG MEDIAN SOUTH OF 23RD ST.  | Will Do <i>HM</i>                                  |
| 4.       | 144      | AR-1103                   | TREES ALONG THE WEST SIDEWALK OF LONG BEACH BLVD, SOUTH OF HILL ARE IN SOME CASES REMOVED WITHOUT CONSTRUCTION OF NEW TREE WELLS, IS THIS AN INCONSISTENCY?<br><i>No room to plant trees</i> | Will Review and Advise<br>AT REVIEW MTO. <i>HM</i> |
| 5.       | 145      | AR-1104                   | COMPLETE NOTE REFERENCE FOR TREE ALONG MEDIAN, SOUTH OF 20TH ST.   | Will Do <i>HM</i>                                  |
| 6.       | 146      | AR-1105                   | SHOULD THE BUS STOP AT THE NORTHEAST CORNER OF PCH & LONG BEACH BLVD, BE RELOCATED?<br><i>Will consult with Long Beach</i>   | Will Review & Advise AT<br>Review MTO              |
|          | (117)    |                           |  |  |
| 7.       | 147      | AR-1106                   | COMPLETE NOTE REFERENCES ALONG MEDIAN FOR TREES<br><i>South of 11th St</i>   | Will Do <i>HM</i>                                  |

S | C | R | C

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REVIEW COMMENTS

DATE 10/27/06

SHEET 1 OF 2

VIEWER DENNIS MORI ORGANIZATION & DIVISION SCRTPD TFD ARCHITECTURE

FINAL DESIGN

SUBMITTAL LB/LA RAIL TRANSIT PROJECT WILLOW STATION TO OCEAN BLVD 60% REVIEW

PRELIMINARY ENGINEERING

| REF. NO. | PAGE NO.     | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER  | RESPONSE/ACTION  |
|----------|--------------|---------------------------|---|--|
| 8        | 147          | AR-1106                   | SHOULD THE THREE TREES LOCATED IN THE MEDIAN, JUST SOUTH OF 15TH STREET, BE REMOVED?  | YES - THIS WILL BE SHOWN ON PLANS K.H.   |
| 9        | 148          | AR-1107                   | SHOULD THE TREES LOCATED IN THE MEDIAN, NORTH & SOUTH OF 14TH STREET, BE REMOVED?   | YES THIS WILL BE SHOWN ON PLANS K.H.   |
| 10       | 148          | AR-1107                   | SHOULD THE BUS STOP ON THE NORTHEAST CORNER OF ANAHEIM AVENUE & LONG BEACH BLVD BE REMOVED?   | YES - THIS WILL BE SHOWN ON PLANS K.H.   |
| 11       | 150          | AR-1109                   | SHOULD ALL THE TREES IN THE MEDIAN ALONG LONG BEACH BLVD BE REMOVED?  | YES - THIS WILL BE SHOWN ON PLANS K.H.   |
| 12       | 151          | AR-1110                   | SHOULD THE TWO TREES THAT ARE BEING REMOVED ON THE SOUTHWEST CORNER OF 17TH ST & LONG BEACH BLVD, BE PROVIDED WITH A NEW TREE WELL? | THE RAISED PLANTER WILL BE REMOVED + A 4' WIDE AT CURB PLANTER WILL BE PROVIDED IN BACK OF THE CURB K.H. |
| 13       | 152          | AR-1111                   | SHOULD THE THREE BUS STOPS ALONG THE EAST SIDE OF LONG BEACH BLVD, BE RELOCATED?  | YES - THIS WILL BE SHOWN ON PLANS K.H.   |
| 14       | 152<br>(118) | AR-1111                   | SHOULD THE TWO TREES THAT ARE BEING REMOVED FROM THE NORTH EAST CORNER OF 4TH & LONG BEACH BLVD BE                                  | YES - THIS WILL BE SHOWN ON PLANS K.H.   |





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**REVIEW COMMENTS**

DATE Nov 4 86

SHEET 1 OF 2

REVIEWER K. PHAM / R. FERRETTI ORGANIZATION & DIVISION ELCON ASSOCIATES INC.

FINAL DESIGN [

SUBMITTAL WILLOW STATION TO OCEAN BLVD. CONTRACT NO. ROI-TOI-C325 PRELIMINARY ENGINEERING [

| REF NO. | PAGE NO. | DRAWING NO./ SPEC. SECTION | COMMENTS BY REVIEWER  | RESPONSE/ACTION  |
|---------|----------|----------------------------|---|--|
|         |          |                            | General comments:   |  |
| ①       |          |                            | T/P (Traction Power) duct bank shown on plans should indicate 2-4" PVC concrete encased ducts for 2-750 KCMIL supplementary along track feeder cables | Will Do <i>WJ</i>  |
| ②       |          |                            | Please show T/P duct bank on profile below plan   | No Room - Additional Ducts Required - To Be Reviewed                       |
| ③       | 75       | UT-1152                    | Please show positive interface manhole and negative interface handhole for Pacific coast TPS/S. also show connections to OCS and return rails         | To Be Discussed With SCRC Systems & DMJMT Elec. Eng. <i>WJ</i>             |
| ④       | 89       | UT-1166                    | Please show interface manhole and handhole for 1st street TPS/S. also connections to OCS and return rails.  | To Be Discussed In Detail With SCRC Systems & DMJMT's Elec. Eng. <i>WJ</i> |
| 119     |          |                            | <b>PADS OF REVIEW COMMENTS SHEETS AVAILABLE AT SCRC'S OFFICE SERVICES</b>   |  |



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REVIEW COMMENTS

DATE Nov 4 86

SHEET 2 OF 2

REVIEWER K. PHAM / R. FERRETTI ORGANIZATION & DIVISION ELCON ASSOCIATES INC.

FINAL DESIGN

SUBMITTAL WILLOW STATION TO OCEAN BLVD. CONTRACT NO. R01-T01-C325 PRELIMINARY ENGINEERING

| REF NO. | PAGE NO. | DRAWING NO./ SPEC. SECTION | COMMENTS BY REVIEWER  | RESPONSE/ACTION  |
|---------|----------|----------------------------|---|--|
| ⑤       | 54       | UT-1115                    | Detail 3, we recommend No. 4 U rebar at 60" c/c instead of 18"  | OK. Will Do. <i>RF</i>   |
| ⑥       | 56       | UT-1125                    | 5/8" x 8'-0" rod (ground) should be installed in interface manhole.<br>Cable racks must be bonded together and connected to ground rod. | Will Do IN CONJUNCTION WITH OUR ELECTRICAL ENGINEER<br><i>RF</i> |
| 120     |          |                            | PADS OF REVIEW COMMENTS SHEETS AVAILABLE AT SCRC'S OFFICE SERVICES  |  |



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REVIEW COMMENTS

DATE 11/11/86 SHEET 14 OF

REVIEWER B. Wilson ORGANIZATION & DIVISION SCRC, FACS. FINAL DESIGN [ ] SUBMITTAL 60% 0.325 PRELIMINARY ENGINEERING [ ]

Table with 4 columns: REF. NO., PAGE NO., DRAWING NO. SPEC. SECTION, COMMENTS BY REVIEWER, and RESPONSE/ACTION. Contains handwritten review notes and responses for items 49, 50, 51, and 121.



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REVIEW COMMENTS

DATE 11/11/86 SHEET 15 OF

REVIEWER BAW ORGANIZATION & DIVISION SCRC Facs. FINAL DESIGN [X] SUBMITTAL 60% 0325 PRELIMINARY ENGINEERING [ ]

Table with 4 columns: REF. NO., PAGE NO., DRAWING NO. SPEC. SECTION, COMMENTS BY REVIEWER, and RESPONSE/ACTION. Contains 7 rows of review comments and responses.



Southern California Rail Consultants

REVIEW COMMENTS

DATE 11-12-86

SHEET 1 OF

REVIEWER C. Gambo ORGANIZATION & DIVISION SC-RC - Facil. Design

SUBMITTAL C-325 - Long Beach 60% Submittal

FINAL DESIGN [X]

PRELIMINARY ENGINEERING [ ]

| REF. NO. | PAGE NO.      | DRAWING NO. SPEC. SECTION | COMMENTS BY REVIEWER   | RESPONSE/ACTION        |
|----------|---------------|---------------------------|--|------------------------|
| 1        | 23, 2A & 25   | RW-1100, 1101 & 1102      | Please describe points that are not properly corners.  | WILL DO <del>ALL</del> |
| 2        | 122, 123, 124 | CE-1155, 1156, 1157       | Please add Long Beach Blvd. stationing as most of this work is street improvements.  | DONE <del>ALL</del>    |
| 3        | 193           | TK-1106                   | Call out material adjacent to rail shown in sections A & B. Identify location of "Joint Sealant" shown in sections A & B.                        | WILL DO                |
| A        |               | 01010                     | Delete "temporary" fencing from section 1.2-B.   | WILL DO                |
| 5        |               | 02450                     | In section 1.1-D-A, delete "timber".   | WILL DO                |
| 6        |               |                           | General Specification Comment Division 2, Site Work & Division 3 - Concrete to be revised to agree with latest revision of guide specifications. | WILL DO                |
| 123      |               |                           |  |                        |