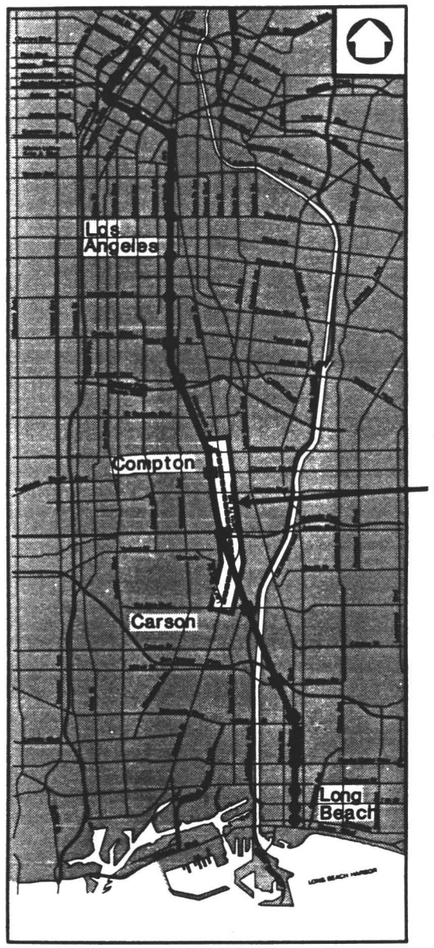
LOS ANGELES COUNTY TRANSPORTATION COMMISSION

LACTC

The Long Beach-Los Angeles Rail Transit Project



System Map

STOCKWELL TO DEL AMO BLVD.
RAILROAD RELOCATION WORK

CONTRACT NO.
R01-T01-C235

FINAL DESIGN

85% REVIEW

AUG 09 1988

85 % SUBMITTAL

Parsons Brinckerhoff

TRANSCAL
Transit Consultants of Southern California

SUBMITTED BY: _____ DATE: _____
PROJECT MANAGER

APPROVED: _____ DATE: _____
PROJECT MANAGER

LACTC

ACCEPTED: _____ DATE: _____
PROGRAM DIRECTOR
LOS ANGELES COUNTY TRANSPORTATION COMMISSION

SHEET NO.	DRAWING NO.	DRAWING TITLE	
		CIVIL	
		GENERAL	
		COVER SHEET	
1	GI - 0901	DRAWING INDEX	
2	GI - 0902	GENERAL NOTES & VICINITY MAP	
3	GI - 0903	KEY PLAN	
4	CES - 0002	CIVIL AND UTILITY STANDARD ABBREVIATIONS	SHEET 1 OF 3
5	CES - 0003	CIVIL AND UTILITY STANDARD ABBREVIATIONS	SHEET 2 OF 3
6	CES - 0004	CIVIL AND UTILITY STANDARD ABBREVIATIONS	SHEET 3 OF 3
7	CES - 0005	CIVIL AND UTILITY STANDARD SYMBOLS	SHEET 1 OF 2
8	CES - 0006	CIVIL AND UTILITY STANDARD SYMBOLS	SHEET 2 OF 2
9	GI - 0905	CONSTRUCTION PHASE	SHEET 1 OF 3
10	GI - 0906	CONSTRUCTION PHASE	SHEET 2 OF 3
11	GI - 0907	CONSTRUCTION PHASE	SHEET 3 OF 3
12	CS - 0901	PRIMARY SURVEY CONTROL MONUMENTATION	SHEET 1 OF 3
13	CS - 0902	PRIMARY SURVEY CONTROL MONUMENTATION	SHEET 2 OF 3
14	CS - 0903	PRIMARY SURVEY CONTROL MONUMENTATION	SHEET 3 OF 3
15	RR - 0933	ALIGNMENT SCHEMATIC	SHEET 1 OF 2
16	RR - 0934	ALIGNMENT SCHEMATIC	SHEET 2 OF 2
17	RR - 0936	ALIGNMENT DATA	SHEET 1 OF 2
18	RR - 0937	ALIGNMENT DATA	SHEET 2 OF 2
19	RR - 0939	CURVE DATA	
20	RR - 0931	TYPICAL SECTIONS	SHEET 1 OF 2
21	RR - 0932	TYPICAL SECTIONS	SHEET 2 OF 2
		RAILROAD RELOCATION WORK	
22	RR - 0901	PLAN & PROFILE STA 560+00 TO STA 570 +00	SHEET 1 OF 21
23	RR - 0902	PLAN & PROFILE STA 570+00 TO STA 581 +00	SHEET 2 OF 21
24	RR - 0903	PLAN & PROFILE OWENS - CORNING SPUR	SHEET 3 OF 21
25	RR - 0904	PLAN & PROFILE OWENS - CORNING SPUR	SHEET 4 OF 21
26	RR - 0905	PLAN & PROFILE STA 508+00 TO STA 581 +00	SHEET 5 OF 21
27	RR - 0906	PLAN & PROFILE SAN PEDRO BRANCH	SHEET 6 OF 21
28	RR - 0907	PLAN & PROFILE STA 495+00 TO STA 508 +00	SHEET 7 OF 21
29	RR - 0908	PLAN & PROFILE STA 480+50 TO STA 495 +00	SHEET 8 OF 21
30	RR - 0909	PLAN & PROFILE STA 466+00 TO STA 480 +50	SHEET 9 OF 21
31	RR - 0910	PLAN & PROFILE STA 452+00 TO STA 466 +00	SHEET 10 OF 21
32	RR - 0911	PLAN & PROFILE STA 438+00 TO STA 452 +00	SHEET 11 OF 21
33	RR - 0912	PLAN & PROFILE STA 423+50 TO STA 438 +00	SHEET 12 OF 21
34	RR - 0913	PLAN & PROFILE STA 409+00 TO STA 423 +50	SHEET 13 OF 21
35	RR - 0914	PLAN & PROFILE STA 395+00 TO STA 409 +00	SHEET 14 OF 21
36	RR - 0915	PLAN & PROFILE STA 381+00 TO STA 395 +00	SHEET 15 OF 21
37	RR - 0916	PLAN & PROFILE STA 368+00 TO STA 381 +00	SHEET 16 OF 21
38	RR - 0917	PLAN & PROFILE STA 355+00 TO STA 368 +00	SHEET 17 OF 21
39	RR - 0918	PLAN & PROFILE TRACK 5	SHEET 18 OF 21
40	RR - 0919	PLAN & PROFILE STA 341+50 TO STA 355 +00	SHEET 19 OF 21
41	RR - 0920	PLAN & PROFILE STA 327+50 TO STA 341 +50	SHEET 20 OF 21
42	RR - 0921	PLAN & PROFILE STA 318+03.96 TO STA 327 +50	SHEET 21 OF 21
43	RR - 0925	R/R GRADE CROSSING	SHEET 1 OF 4
44	RR - 0926	R/R GRADE CROSSING	SHEET 2 OF 4
45	RR - 0927	R/R GRADE CROSSING	SHEET 3 OF 4
46	RR - 0928	R/R GRADE CROSSING	SHEET 4 OF 4
47	RR - 0955	CROSS SECTION RELOCATED WILMINGTON BRANCH	SHEET 1 OF 22
48	RR - 0956	CROSS SECTION RELOCATED WILMINGTON BRANCH	SHEET 2 OF 22
49	RR - 0957	CROSS SECTION RELOCATED WILMINGTON BRANCH	SHEET 3 OF 22
50	RR - 0958	CROSS SECTION RELOCATED WILMINGTON BRANCH	SHEET 4 OF 22
51	RR - 0959	CROSS SECTION RELOCATED WILMINGTON BRANCH	SHEET 5 OF 22
52	RR - 0960	CROSS SECTION RELOCATED WILMINGTON BRANCH	SHEET 6 OF 22
53	RR - 0961	CROSS SECTION RELOCATED WILMINGTON BRANCH	SHEET 7 OF 22
54	RR - 0962	CROSS SECTION RELOCATED WILMINGTON BRANCH	SHEET 8 OF 22
55	RR - 0963	CROSS SECTION RELOCATED WILMINGTON BRANCH	SHEET 9 OF 22
56	RR - 0964	CROSS SECTION RELOCATED WILMINGTON BRANCH	SHEET 10 OF 22
57	RR - 0965	CROSS SECTION RELOCATED WILMINGTON BRANCH	SHEET 11 OF 22
58	RR - 0966	CROSS SECTION RELOCATED WILMINGTON BRANCH	SHEET 12 OF 22
59	RR - 0967	CROSS SECTION RELOCATED WILMINGTON BRANCH	SHEET 13 OF 22
60	RR - 0968	CROSS SECTION RELOCATED WILMINGTON BRANCH	SHEET 14 OF 22
61	RR - 0969	CROSS SECTION RELOCATED WILMINGTON BRANCH	SHEET 15 OF 22
62	RR - 0970	CROSS SECTION RELOCATED WILMINGTON BRANCH	SHEET 16 OF 22
63	RR - 0971	CROSS SECTION RELOCATED WILMINGTON BRANCH	SHEET 17 OF 22
64	RR - 0972	CROSS SECTION RELOCATED WILMINGTON BRANCH	SHEET 18 OF 22
65	RR - 0973	CROSS SECTION RELOCATED SAN PEDRO BRANCH	SHEET 19 OF 22
66	RR - 0974	CROSS SECTION RELOCATED SAN PEDRO BRANCH	SHEET 20 OF 22
67	RR - 0975	CROSS SECTION OWENS - CORNING SPUR	SHEET 21 OF 22
68	RR - 0976	CROSS SECTION OWENS - CORNING SPUR	SHEET 22 OF 22
		ROADWAY	
69	CE - 0901	KEY PLAN	
70	CE - 0902	E. WILLOWBROOK AVENUE/MONA AVENUE	

SHEET NO.	DRAWING NO.	DRAWING TITLE	
		CIVIL	
		ROADWAY	
71	CE - 0903	MEALY STREET/OWENS-CORNING SPUR	
72	CE - 0904	TAMARIND AVENUE	
73	CE - 0905	W. ALAMEDA, NO. OF ROSECRANS SHT. 1	
74	CE - 0906	W. ALAMEDA, NO. OF ROSECRANS SHT. 2	
75	CE - 0907	PINE ST.	
76	CE - 0908	ELM ST.	
77	CE - 0909	PALMER ST.	
78	CE - 0910	COMPTON BLVD.	
79	CE - 0911	LAUREL ST.	
80	CE - 0912	ALONDRA BLVD.	
81	CE - 0913	GREENLEAF BLVD.	
82	CE - 0914	AUTO DRIVE SOUTH	
83	CE - 0915	W. ALAMEDA ST./DOMINGUEZ JUNCTION	
84	CE - 0916	ACCESS ROAD AND SERVICE ROAD	SHEET 1 OF 3
85	CE - 0917	ACCESS ROAD AND SERVICE ROAD	SHEET 2 OF 3
86	CE - 0918	ACCESS ROAD AND SERVICE ROAD	SHEET 3 OF 3
87	CE - 0919	CURB RETURN PROFILE	SHEET 1 OF 3
88	CE - 0920	CURB RETURN PROFILE	SHEET 2 OF 3
89	CE - 0921	CURB RETURN PROFILE	SHEET 3 OF 3
90	CE - 0925	EAST ALAMEDA STREET	SHEET 1 OF 2
91	CE - 0926	EAST ALAMEDA STREET	SHEET 2 OF 2
92	CE - 0927	TYPICAL SECTION EAST ALAMEDA STREET	
		DRAINAGE	
93	CE - 0931	E. WILLOWBROOK/MONA/MEALY - PROFILE	
94	CE - 0932	TAMARIND AVE. - PROFILE	
95	CE - 0933	W. ALAMEDA ST. - PROFILE	
96	* CE - 0934	W. ALAMEDA ST./DOMINGUEZ JUNCTION - PROFILE	
97	* CE - 0935	NOTES AND DETAILS	
		SOUND BARRIER	
98	CE - 0941	CROSS SECTIONS/NOTES	
99	CE - 0942	PLAN AND PROFILE	
100	CE - 0943	PLAN AND PROFILE	
101	CE - 0944	PLAN AND PROFILE	
102	CE - 0945	DETAIL	
		UTILITY CROSSING	
103	CE - 0951	E. WILLOWBROOK AVENUE/MONA/W. ALAMEDA ST.	
104	CE - 0952	W. ALAMEDA ST./COMPTON/ALONDRA/GREENLEAF BLVD.	
105	CE - 0953	MANVILLE/W. ALAMEDA STREET	
106	CE - 0954	LAUREL PARK ROAD	
		RIGHT OF WAY	
107	RW - 0901	BASE PROPERTY MAP	SHEET 1 OF 17
108	RW - 0902	BASE PROPERTY MAP	SHEET 2 OF 17
109	RW - 0903	BASE PROPERTY MAP	SHEET 3 OF 17
110	RW - 0904	BASE PROPERTY MAP	SHEET 4 OF 17
111	RW - 0905	BASE PROPERTY MAP	SHEET 5 OF 17
112	RW - 0906	BASE PROPERTY MAP	SHEET 6 OF 17
113	RW - 0907	BASE PROPERTY MAP	SHEET 7 OF 17
114	RW - 0908	BASE PROPERTY MAP	SHEET 8 OF 17
115	RW - 0909	BASE PROPERTY MAP	SHEET 9 OF 17
116	RW - 0910	BASE PROPERTY MAP	SHEET 10 OF 17
117	RW - 0911	BASE PROPERTY MAP	SHEET 11 OF 17
118	RW - 0912	BASE PROPERTY MAP	SHEET 12 OF 17
119	RW - 0913	BASE PROPERTY MAP	SHEET 13 OF 17
120	RW - 0914	BASE PROPERTY MAP	SHEET 14 OF 17
121	RW - 0915	BASE PROPERTY MAP	SHEET 15 OF 17
122	RW - 0916	BASE PROPERTY MAP	SHEET 16 OF 17
123	RW - 0917	BASE PROPERTY MAP	SHEET 17 OF 17

TRAFFIC

		TRAFFIC SIGNAL MODIFICATION	
124	TR - 0901	ALAMEDA STREET AT PALMER STREET	
125	TR - 0902	ALAMEDA STREET AT PALMER STREET	
126	TR - 0903	ALAMEDA STREET AT COMPTON BOULEVARD	
127	TR - 0904	ALAMEDA STREET AT COMPTON BOULEVARD	
128	TR - 0905	ALAMEDA STREET AT LAUREL STREET	
129	TR - 0906	ALAMEDA STREET AT LAUREL STREET	
130	TR - 0907	ALAMEDA STREET AT ALONDRA BOULEVARD	
131	TR - 0908	ALAMEDA STREET AT ALONDRA BOULEVARD	
132	TR - 0909	ALAMEDA STREET AT GREENLEAF BOULEVARD	
133	TR - 0910	ALAMEDA STREET AT GREENLEAF BOULEVARD	
134	TR - 0911	ALAMEDA STREET AT AUTO DRIVE SOUTH	
135	TR - 0912	ALAMEDA STREET AT AUTO DRIVE SOUTH	

SHEET NO.	DRAWING NO.	DRAWING TITLE	
		TRAFFIC	
		TRAFFIC SIGNAL MODIFICATION	
136	TR - 0913	SANTA FE AVENUE AT AUTO DRIVE SOUTH	
137	TR - 0914	SANTA FE AVENUE AT AUTO DRIVE SOUTH	
138	TR - 0915	ALAMEDA STREET AT PINE AVENUE	
139	TR - 0916	ALAMEDA STREET AT PINE AVENUE	
		ROADWAY SIGNING AND STRIPING	
140	TR - 0921	EAST WILLOWBROOK AVENUE AT RAILROAD GRADE CROSSING	
141	TR - 0922	MONA BOULEVARD AT ACCESS ROAD AND MEALY STREET	
142	TR - 0923	TAMARIND AVENUE AT ACCESS ROAD AND MEALY STREET	
143	TR - 0924	ALAMEDA STREET NORTH OF ROSECRANS AVENUE	
144	TR - 0925	ALAMEDA STREET AT ROSECRANS AVENUE	
145	TR - 0926	ALAMEDA STREET AT MAPLE STREET	
146	TR - 0927	ALAMEDA STREET AT ELM STREET	
147	TR - 0928	ALAMEDA STREET AT PALMER STREET	
148	TR - 0929	ALAMEDA STREET AT MAGNOLIA STREET	
149	TR - 0930	ALAMEDA STREET AT COMPTON BOULEVARD	
150	TR - 0931	ALAMEDA STREET AT LAURAL STREET	
151	TR - 0932	ALAMEDA STREET AT MYRRH STREET	
152	TR - 0933	ALAMEDA STREET AT INDIGO STREET	
153	TR - 0934	ALAMEDA STREET NORTH OF ALONDRA BOULEVARD	
154	TR - 0935	ALAMEDA STREET AT ALONDRA BOULEVARD	
155	TR - 0936	ALAMEDA STREET AT REEVE STREET	
156	TR - 0937	ALAMEDA STREET AT CALDWELL STREET	
157	TR - 0938	ALAMEDA STREET AT JOHNSON STREET	
158	TR - 0939	ALAMEDA STREET AT BENNETT STREET	
159	TR - 0940	ALAMEDA STREET AT GREENLEAF BOULEVARD	
160	TR - 0941	ALAMEDA STREET AT AUTO DRIVE NORTH	
161	TR - 0942	ALAMEDA STREET AT AUTO DRIVE NORTH	
162	TR - 0943	COMPTON BOULEVARD CROSSING	
163	TR - 0944	COMPTON BOULEVARD CROSSING	
164	TR - 0945	ALONDRA BOULEVARD CROSSING	
165	TR - 0946	AUTO DRIVE SOUTH CROSSING	
166	TR - 0947	AUTO DRIVE SOUTH AT SANTA FE AVENUE	
167	TR - 0948	SANTA FE AVENUE AT AUTO DRIVE SOUTH	
168	TR - 0949	ALAMEDA STREET AT PINE AVENUE	
169	TR - 0950	ALAMEDA STREET AT OAKS STREET	
170	TR - 0951	ALAMEDA STREET NORTH OF MEALY STREET	
171	TR - 0952	ALAMEDA STREET AT MEALY STREET	
172	TR - 0953	PAVEMENT MARKINGS AND TRAFFIC STRIPPING TYPICAL DETAILS	
		ROADWAY LIGHTING MODIFICATION	
173	TR - 0961	EAST WILLOWBROOK AVENUE AT RAILROAD GRADE CROSSING	
174	TR - 0962	MONA BOULEVARD AT ACCESS ROAD AND MEALY STREET	
175	TR - 0963	TAMARIND AVENUE AT ACCESS ROAD AND MEALY STREET	
176	TR - 0964	ALAMEDA STREET NORTH OF ROSECRANS AVENUE	
177	TR - 0965	ALAMEDA STREET AT ELM STREET	
178	TR - 0966	COMPTON BOULEVARD CROSSING	
179	TR - 0967	ALAMEDA STREET AT OAKS STREET	
180	TR - 0968	ALAMEDA STREET NORTH OF MEALY STREET	
181	TR - 0969	ALAMEDA STREET AT MEALY STREET	
182	TR - 0981	GENERAL CONSTRUCTION ADVISORY SIGNING PLAN	
183	TR - 0982	CONSTRUCTION DETOUR ROUTING FOR WEST ALAMEDA STREET CLOSURE	
184	TR - 0983	CONSTRUCTION DETOUR ROUTING FOR PARTIAL CLOSURE	
185	TR - 0984	CONSTRUCTION DETOUR ROUTING FOR COMPTON BOULEVARD WIDENING	

UTILITIES

186	UT - 0901	EXISTING UNDERGROUND UTILITIES	SHEET 1 OF 17
187	UT - 0902	EXISTING UNDERGROUND UTILITIES	SHEET 2 OF 17
188	UT - 0903	EXISTING UNDERGROUND UTILITIES	SHEET 3 OF 17
189	UT - 0904	EXISTING UNDERGROUND UTILITIES	SHEET 4 OF 17
190	UT - 0905	EXISTING UNDERGROUND UTILITIES	SHEET 5 OF 17
191	UT - 0906	EXISTING UNDERGROUND UTILITIES	SHEET 6 OF 17
192	UT - 0907	EXISTING UNDERGROUND UTILITIES	SHEET 7 OF 17
193	UT - 0908	EXISTING UNDERGROUND UTILITIES	SHEET 8 OF 17
194	UT - 0909	EXISTING UNDERGROUND UTILITIES	SHEET 9 OF 17
195	UT - 0910	EXISTING UNDERGROUND UTILITIES	SHEET 10 OF 17
196	UT - 0911	EXISTING UNDERGROUND UTILITIES	SHEET 11 OF 17
197	UT - 0912	EXISTING UNDERGROUND UTILITIES	SHEET 12 OF 17
198	UT - 0913	EXISTING UNDERGROUND UTILITIES	SHEET 13 OF 17
199	UT - 0914	EXISTING UNDERGROUND UTILITIES	SHEET 14 OF 17
200	UT - 0915	EXISTING UNDERGROUND UTILITIES	SHEET 15 OF 17
201	UT - 0916	EXISTING UNDERGROUND UTILITIES	SHEET 16 OF 17
202	UT - 0917	EXISTING UNDERGROUND UTILITIES	SHEET 17 OF 17
203	UT - 0918	EXISTING UNDERGROUND UTILITIES EAST ALAMEDA STREET	SHEET 1 OF 2
204	UT - 0919	EXISTING UNDERGROUND UTILITIES EAST ALAMEDA STREET	SHEET 2 OF 2

* NOT INCLUDED IN THIS SUBMITTAL

FINAL DESIGN

85% REVII

AUG 09 1988

Work Element | Physical Entity | Contract Designator | Line Item | Cost Element | Project Number

Information confidential: all plans, drawings, specifications and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission shall be held confidential and shall not be used for any purpose not provided

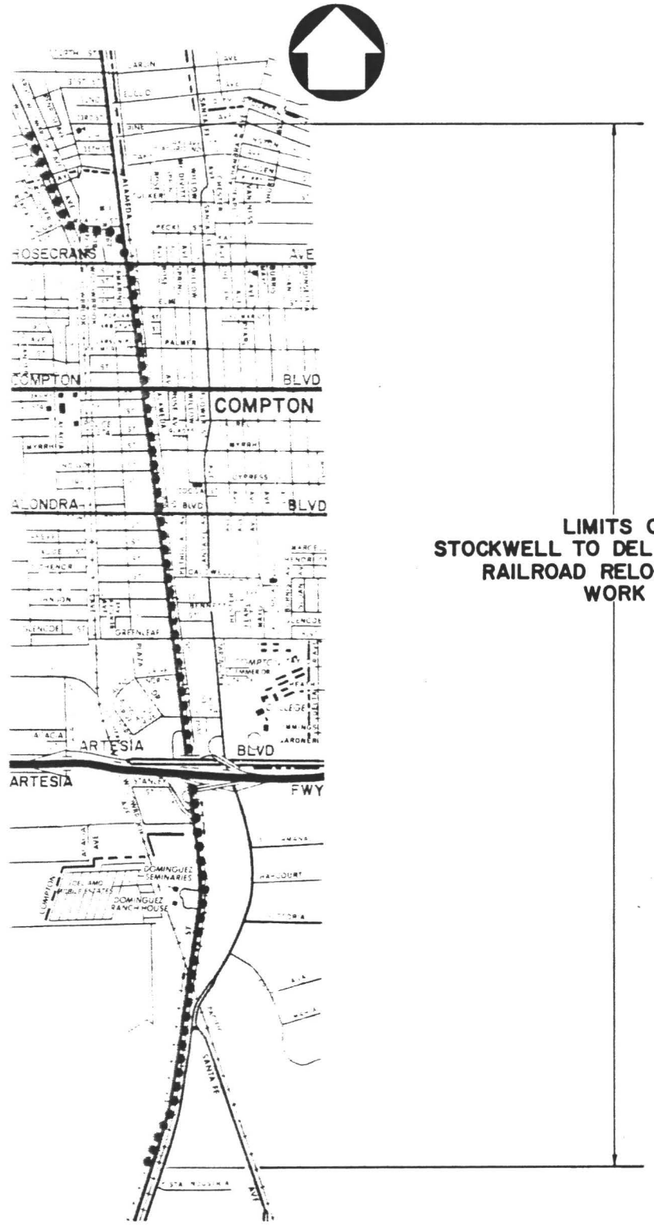
DESIGN BY A. PAK-POY
DRAWN BY A. PAK-POY
CHECKED BY J. CHEN
APPROVED BY S. OYAMA

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

Transit Consultants of Southern California
A Joint Venture of Parsons Brinckerhoff Quade & Douglas, Inc - Daniel Mann Johnson & Mendenhall -

STOCKWELL TO DEL AMO BLVD.
RAILROAD RELOCATION WORK

CONTRACT NO. RO1 - TO1 - C
DRAWING NO. GI - 0901
REV.
SHEET NO. 1



LIMITS OF
STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION
WORK

GENERAL NOTES

1. PRIMARY CONTROL SURVEYS WERE PERFORMED BY AIRBORNE SYSTEMS, INC., FROM AERIAL PHOTOGRAPHS DATED MAY 8, 1985. TOPOGRAPHIC MAPS WERE DEVELOPED AT A SCALE OF 1" = 50' WITH ONE FOOT CONTOUR INTERVALS. THE BASE MAPPING UTILIZED FOR THE FOLLOWING ALIGNMENT PLANS WERE REPRODUCED FROM THE ABOVE REFERENCED TOPOGRAPHIC MAPS.
2. ALL RAILROAD CONSTRUCTION DETAILS SHALL BE IN CONFORMANCE WITH THE SOUTHERN PACIFIC TRANSPORTATION COMPANY'S STANDARD DRAWINGS.
3. RAILROAD TURNOUTS SHALL BE IN CONFORMANCE TO SOUTHERN PACIFIC TRANSPORTATION COMPANY'S STANDARD TURNOUTS.
4. DEGREE OF CURVATURE ON RAILROAD ALIGNMENTS SHALL BE BASED UPON 50 FOOT CHORD DEFINITION.
5. ALL WARNING DEVICES FOR VEHICULAR AND PEDESTRIAN GRADE CROSSINGS SHALL HAVE AUTOMATIC GATES IN ACCORDANCE WITH CALIFORNIA UTILITY COMMISSION REQUIREMENTS; EXCEPT AT ROSECRANS AVENUE WHERE EXISTING WARNING DEVICES SHALL BE SALVAGED AND RELOCATED.
6. MINIMUM TRACK SPACING REQUIREMENT SHALL BE IN CONFORMANCE WITH SOUTHERN PACIFIC TRANSPORTATION COMPANY'S STANDARD DRAWING C.S. 1911. THE MINIMUM REQUIREMENT FOR VERTICAL CLEARANCE SHALL BE 23'-6" ABOVE THE TOP OF RAIL. (EXCEPT COMPTON CREEK BRIDGE).
7. EXISTING STORM DRAINS ARE NOT SHOWN ON THE RAILROAD PLANS. SEE ROADWAY PLANS FOR STORM DRAIN INFORMATION.
8. ALL ROADWAY IMPROVEMENTS SHALL BE IN CONFORMANCE TO THE LOS ANGELES COUNTY STANDARD PLANS UNLESS OTHERWISE NOTED ON THE PLANS.

FINAL DESIGN

85% REVIEW

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Work Element	Physical Entity	Contract Designator	Line Item	Cost Element

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DESIGNED BY R. Ordonez
DRAWN BY R. Ordonez
CHECKED BY
APPROVED BY

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

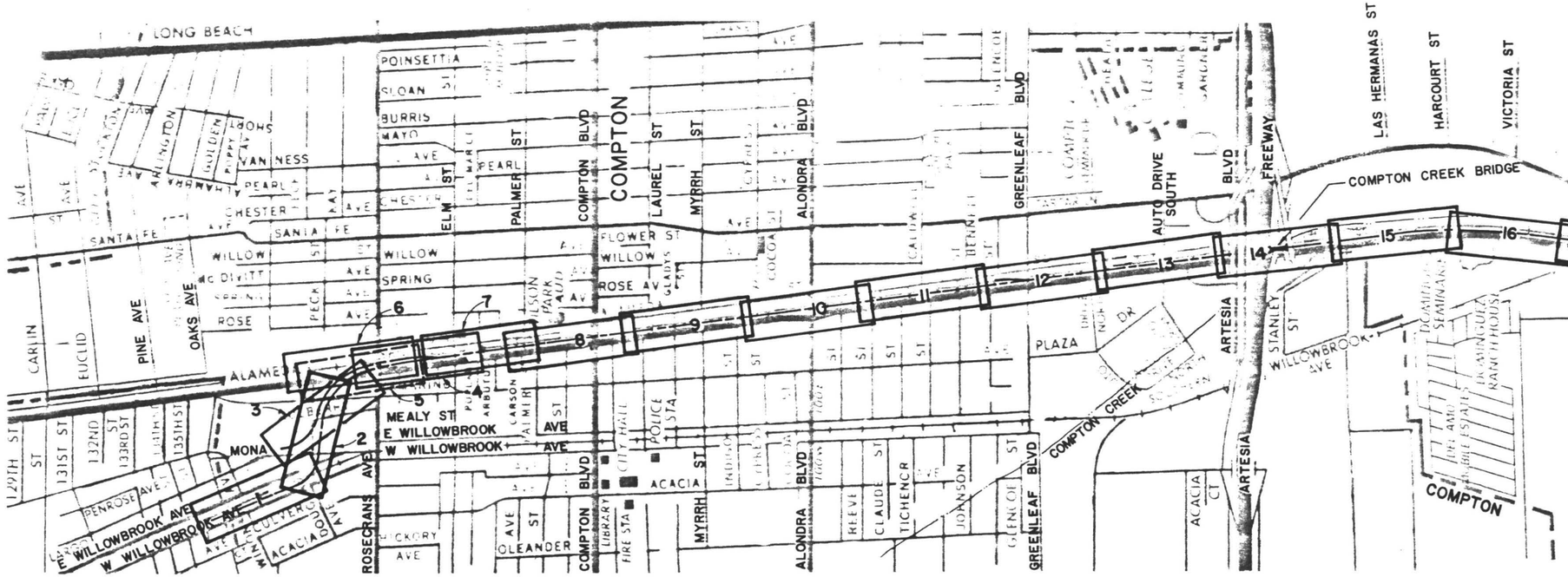
Parsons Brinckerhoff Quade & Douglas, Inc.

Transit Consultants of Southern California
A Joint Venture of: Parsons Brinckerhoff Quade & Douglas, Inc. / Daniel, Mann, Johnson & Mendenhall / Kaiser Engineers (California) Corporation

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK

GENERAL NOTES & VICINITY MAP

CONTRACT NO. R01-T01-C
DRAWING NO. GI-0902
REV.
SHEET NO. 2
SCALE



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Work Element	
Physical Entity	
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LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

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- Parsons Brinckerhoff Quade & Douglas, Inc.
- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK

KEY PLAN

CONTRACT NO. ROI-TO 1-C
DRAWING NO. GI - 0903
REV.
SHEET NO. 3
SCALE

TRACK AND ROAD ALIGNMENT

HORIZONTAL

BC	BEGINNING OF CIRCULAR CURVE
CC	CENTER OF CIRCULAR CURVE
CS	POINT OF CHANGE FROM CIRCULAR CURVE TO SPIRAL
D, Dc	DEGREE OF CURVE (CURVATURE)
△	DELTA OR DEFLECTION ANGLE (CENTRAL ANGLE OF CIRCULAR CURVE)
△c	DELTA OR DEFLECTION ANGLE (CIRCULAR CURVE)
△s	DELTA OR DEFLECTION ANGLE (SPIRAL CURVE)
EC	END OF CIRCULAR CURVE
ES	EXTERNAL DISTANCE
I	TOTAL INTERSECTION ANGLE OR TOTAL CENTRAL ANGLE
K	DISTANCE FROM TS TO PC ALONG TANGENT
L	TOTAL CURVE LENGTH
Lc	TOTAL LENGTH OF CIRCULAR CURVE
Ls	TOTAL LENGTH OF SPIRAL CURVE
Ls1	SUFFIX (1) AT THE SYMBOL DENOTES THE DATA FOR THE FIRST SPIRAL IN AN UNSYMMETRICAL SPIRALIZED CURVE
Ls2	SUFFIX (2) - SAME AS ABOVE, SECOND SPIRAL
L.T.	LONG TANGENT
PC	POINT OF CURVATURE OR POINT OF CHANGE FROM TANGENT TO CIRCULAR CURVE
PCC	POINT OF COMPOUND CIRCULAR CURVES
PI	POINT OF INTERSECTION OF TWO TANGENTS
POC	POINT OF CIRCULAR CURVE
POS	POINT ON SPIRAL
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CIRCULAR CURVE
PT	POINT OF TANGENCY OR POINT OF CHANGE FROM CIRCULAR CURVE TO TANGENT
R or Rc	RADIUS OF CIRCULAR CURVE
SC	POINT OF CHANGE FROM SPIRAL TO CIRCULAR CURVE
SS	POINT OF CHANGE FROM SPIRAL TO SPIRAL
ST	POINT OF CHANGE FROM SPIRAL TO TANGENT
S.T.	SHORT TANGENT
T	TOTAL CURVE TANGENT DISTANCE OF COMPLETE CURVE
Tc	TANGENT LENGTH OF CIRCULAR CURVE
Θs	CENTRAL ANGLE OF SPIRAL OR SPIRAL ANGLE
Ts	TANGENT DISTANCE FROM TS OR ST TO PI
TL	TOTAL LENGTH OF CURVE (SPIRALS & CIRCULAR PORTIONS)
TS	POINT OF CHANGE FROM TANGENT TO SPIRAL
TTL	TOTAL TANGENT LENGTH (SPIRALS & CIRCULAR PORTIONS)
Xs	TANGENT DISTANCE AT SC OR CS
Ys	TANGENT OFFSET AT SC OR CS

VERTICAL

BVC	BEGIN VERTICAL CURVE
EVC	END VERTICAL CURVE
LVC	LENGTH OF VERTICAL CURVE
PIVC	POINT OF INTERSECTION OF VERTICAL CURVE
POVC	POINT ON VERTICAL CURVE
PRVC	POINT OF REVERSING VERTICAL CURVE
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION OR POINT OF INTERSECTION OF TWO PROFILE TANGENTS
PVT	POINT OF VERTICAL TANGENCY
VC	VERTICAL CURVE

UTILITY COMPANY / AGENCY ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
AM STATE	W. AMERICAN STATES WATER COMPANY (NOW LACOW)
ARCO	ATLANTIC RICHFIELD COMPANY (NOW FOUR CORNERS PIPELINE COMPANY)
A.R.E.A	AMERICAN RAILWAY ENGINEERING ASSOCIATION
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AT&SF	ATCHISON, TOPEKA AND SANTA FE RAILWAY COMPANY
AT&T	AMERICAN TELEPHONE AND TELEGRAPH COMPANY
BPL	BUREAU OF POWER AND LIGHT (NOW LA DWPPS)
BWS	BUREAU OF WATER SUPPLIES (NOW LA DWPWS)
CALTRANS	CALIFORNIA STATE DEPARTMENT OF TRANSPORTATION
CARDREC	CARSON AND DOMINGUEZ REAL ESTATE CORPORATION
CON WCO	CONSERVATIVE WATER COMPANY (NOW LACOW)
DOT	CITY OF LOS ANGELES DEPARTMENT OF TRANSPORTATION
DWPWS	CITY OF LOS ANGELES, DEPARTMENT OF WATER AND POWER, WATER SYSTEMS
DWPPS	CITY OF LOS ANGELES, DEPARTMENT OF WATER AND POWER, POWER SYSTEMS
FHWA	FEDERAL HIGHWAY ADMINISTRATION
GP	GENERAL PETROLEUM
GSD	CITY OF LOS ANGELES, GENERAL SERVICES DIVISION
GTE	GENERAL TELEPHONE COMPANY
LACFCD	LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
LACOW	LOS ANGELES COUNTY WATER WORKS
LACSD	LOS ANGELES COUNTY SANITATION DISTRICT
LACTC	LOS ANGELES COUNTY TRANSPORTATION COMMISSION
LADWP-PS	CITY OF LOS ANGELES, DEPARTMENT OF WATER & POWER (POWER)
LADWP-WS	CITY OF LOS ANGELES, DEPARTMENT OF WATER & POWER (WATER)
LAG	LOS ANGELES GAS (NOW SCG)
LAG&E	LOS ANGELES GAS AND ELECTRIC (NOW SCG AND DWPPS)
LAWD	LOS ANGELES WATER DEPARTMENT (NOW DWPWS)
LB CATV	LONG BEACH CABLE TELEVISION (NOW SIMMONS CABLE TELEVISION)
LBG	LONG BEACH GAS DEPARTMENT
LBWD	LONG BEACH WATER DEPARTMENT
MWD	METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
PAC BELL	PACIFIC BELL COMPANY
PACTEL	PACIFIC TELEPHONE COMPANY (NOW PAC BELL)
PB	PACIFIC BELL COMPANY (PAC BELL)
PERY, PERR or PERWY	PACIFIC ELECTRIC RAILWAY COMPANY
PTT	PACIFIC TELEPHONE AND TELEGRAPH COMPANY (NOW PAC BELL)
SATIVACOW	SATIVA COUNTY WATER (NOW SATIVA WATER DISTRICT)
SCE	SOUTHERN CALIFORNIA EDISON COMPANY
SCAL W	SOUTHERN CALIFORNIA WATER COMPANY (NOW LACOW)
SCG	SOUTHERN CALIFORNIA GAS COMPANY
SCRC	SOUTHERN CALIFORNIA RAIL CONSULTANTS
SCT	SOUTHERN CALIFORNIA TELEPHONE COMPANY (NOW PAC BELL)
SO PAC P	SOUTHERN PACIFIC PIPELINE COMPANY
SPTC or SP	SOUTHERN PACIFIC TRANSPORTATION COMPANY
STD OIL CO	STANDARD OIL COMPANY OF CALIFORNIA
TM-CATV	TIMES MIRROR CABLE TELEVISION (NOW SIMMONS CABLE TELEVISION)
UPRR	UNION PACIFIC RAILWAY COMPANY
WUT	WESTERN UNION TELEGRAPH COMPANY

MISCELLANEOUS

AB	AGGREGATE BASE
ABND	ABANDONED
ABS	ASBESTOS
ABUT	ABUTMENT
AHD	AHEAD
&	AND
AC or ASPH CONC	ASPHALT CONCRETE OR ASPHALTIC CONCRETE
ACD	ASPHALTIC CONCRETE DUCT
ACL	AUXILIARY CONTROL LINE
ACP	ASBESTOS CEMENT PIPE
AGGR	AGGREGATE
AL	ALUMINUM
ALIGN	ALIGNMENT
APP	APPROVED (REF)
APPV	APPROVED
APPROX	APPROXIMATE OR APPROXIMATELY
AR	RIGHT TRACK-LINE A
AS	AGGREGATE SUB-BASE
A/R	AS REQUIRED
ASPH	ASPHALT
@	AT
ATC	AUTOMATIC TRAIN CONTROL
AVE	AVENUE
AWG	AMERICAN WIRE GAUGE (GAGE)
BB	BILLBOARD
BCOP	BARE COPPER
BEG	BEGIN OR BEGINNING
BFP	BACKFLOW PREVENTER
BIT	BITUMINOUS
BK	BACK
℄ or BL	BASELINE
BLDG	BUILDING
BLVD	BOULEVARD
BM	BENCH MARK
BO	BLOW-OFF
BOC	BOTTOM OF CURB
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF SLOPE
BRDG	BRIDGE
BRG	BEARING
BRK	BRICK
BS	BELL AND SPIGOT OR BODY SHOP
BU CA	BURIED CABLE
BW	BOTTOM OF WALL
C	CONDUIT
CA	CABLE OR COMPRESSED AIR
CB	CATCH BASIN
CBD	CENTER BUSINESS DISTRICT
c-c	CENTER TO CENTER
CF	CURB FACE
CFS	CUBIC FEET PER SECOND
CGS	CENTER OF GRAVITY, STRAND
CHEM	CHEMICAL
CI	CAST IRON
CIP(CL)	CAST IRON PIPE (CEMENT LINED)
CIRCUM	CIRCUMFERENCE
CISP(ES)	CAST IRON SOIL PIPE (EXTRA STRENGTH)
CJ	CONSTRUCTION JOINT
℄ or CL	CENTERLINE
CLF	CHAIN LINK FENCE
CLG	CEILING
CLR	CLEARANCE OR CLEAR
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT, COUNTY OR COMPANY
COL	COLUMN
COMM	COMMUNICATION
CONC	CONCRETE
COND	CONDUIT
CONF	CONFERENCE
CONN	CONNECT OR CONNECTION
CONST	CONSTRUCT OR CONSTRUCTION
CONT	CONTINUED, CONTINUOUS OR CONTINUATION
COORD	COORDINATE
COP	COPPER
CORR	CORRUGATE OR CORRUGATED
CP	CONCRETE PIPE OR CEMENT PIPE
CPC	CORRUGATED PLASTIC CONDUIT
CRSVR	CROSSOVER
CRV	CURVE
C/S	COMMUNICATION/SIGNAL
CSG	CASING
CSW	CONCRETE SIDEWALK
CULV	CULVERT
CU YD	CUBIC YARD
CWD	CREOSOTED WOOD DUCT
CWR	CONTINUOUS WELDED RAIL
D, d	DEPTH
DCT, DU	DUCT
DEF	DEFLECTION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN OR DIRECT FIXATION
DG	DIESEL GAS OR DRY GAS
DI	DUCTILE IRON
DIA or Ø	DIAMETER
DIAG	DIAGRAM
DIAM	DIAMETER (REF.)
DIM	DIMENSION
DIP(L)	DUCTILE IRON PIPE (LINED)
DIST	DISTRICT OR DISTANCE
DMH	DRAINAGE MANHOLE
DML	DEMOLITION
DN	DOWN
DRTK	DRILL TRACK
DW	DOMESTIC WATER
DWG	DRAWING
DWL	DOWEL
DWLG	DOWELLING
DWY	DRIVEWAY

FINAL DESIGN

85% REVIEW

AUG 09 1988

C	2-17-88	SEAL ADDED PER CR 6F-135	
B	9/14/87	REVISED PER CR 6F-105	

Work Element | Physical Entity | Contract Designator | Line Item | Cost Element | Project Number

Information confidential: all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for any purpose not provided for in connection with the

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APPROVED BY William P. Nelson

REGISTERED PROFESSIONAL ENGINEER WILLIAM P. NELSON EXP. 6/30/89

LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

TRANSCAL Transit Consultants of Southern California

Transit Consultants of Southern California
A Joint Venture of: ■Parsons Brinckerhoff Quade & Douglas, Inc. ■Daniel, Mann, Johnson & Mendenhall ■Kaiser Engineers (California) Corporation

CIVIL AND UTILITY STANDARD ABBREVIATIONS
SHT 1 OF 3

CONTRACT NO. ROI-TOI-C
DRAWING NO. CES-0002
REV. C
SHEET NO. 4
SCALE

MISCELLANEOUS

E	EAST
EA	EACH
EB	EASTBOUND
E/E	EAST OF EAST RIGHT-OF-WAY LINE
EL	ELEVATION
ELEC	ELECTRIC OR ELECTRICAL
ELECT	ELECTRIC (REF)
ELEV	ELEVATOR
EMB	EMBANKMENT
EMH	ELECTRICAL MANHOLE
E/O	EAST OF
EOR	END OF ROAD
EP	EDGE OF PAVEMENT
EQ	EQUAL OR EQUATION
ES	EXTRA STRENGTH
ET	END TRACK
ETC	ETCETERA
E/W	EAST OF WEST RIGHT OF WAY LINE
EW	EACH WAY
EX	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F	FIBER
FA	FIRE ALARM
FAC	FIRE ALARM CONDUIT
FB	FIRE ALARM BOX
FC	FIBER CONDUIT
FD	FIBER DUCT OR FLOOR DRAIN
FDN	FOUNDATION
FF	FINISHED FLOOR OR FAR FACE
FFE	FINISHED FLOOR ELEVATION
FG	FROG GAUGE PLATE
FH	FIRE HYDRANT
FIN	FINISH
FL	FLOW LINE
FLG	FLANGE
FLR	FLOOR
FP	FIRE PROTECTION
FPS	FOOT PER SECOND
FR	FRAME
FWY	FREEWAY
FS	FIRE SERVICE OR FINISHED SURFACE
FT	FOOT OR FEET
FTOF	FACE TO FACE
G	GAS
GA	GAUGE (GAGE)
GAL(S)	GALLON (GALLONS)
GALV	GALVANIZE OR GALVANIZED
GASO	GASOLINE
GB	GRADE BREAK
GM	GAS METER
GND	GROUND
GP	GENERAL PACKAGE OR GAUGE PLATE
GR	GRADE, GROUND OR GUARD RAIL PLATE
GSC	GALVANIZED STEEL CONDUIT
GV	GATE VALVE
GW	GUY WIRE

H	HEIGHT
HB	HOSE BIB
HD	HEAD
HF	HEEL OF FROG
HL	HEEL LENGTH
HMWPE	HIGH MOLECULAR WEIGHT POLYETHYLENE
HORIZ	HORIZONTAL
HP	HEEL PLATE
HP	HIGH PRESSURE, HORSE POWER OR HEEL PLATE
Hp	HORSEPOWER
HPT	HIGH-POINT
HR	HEADROOM OR HOUR
H/R	HEAVY REPAIR
HS	HIGH STRENGTH STEEL ASTM A432
HWY	HIGHWAY
ID	INSIDE DIAMETER
IJ	INSULATED JOINT
IN	INCH OR INCHES
INV	INVERT
IP	IRON PIPE
JAN	JANITOR
JT	JOINT
K	KIP OR KIPS
KF	FIP-FOOT
KLF	KIPS PER LINEAR FOOT
KSF	KIPS PER SQUARE FOOT
KV	KILOVOLT
L	LINE OR LENGTH
LT	LEFT
LA	LOS ANGELES
LACO	LOS ANGELES COUNTY
LB	POUND
LD	LEAD
LF	LINEAR FOOT (FEET)
LG	LONG OR LENGTH
LGT	LIGHT (REF)
LH	LAMPHOLE
LHD	LEFT HAND
LJ	LEADED JOINT
LOC	LOCATE, LOCATED OR LOCATION
LP	LOW PRESSURE
LPT	LOW POINT
LRT	LIGHT RAIL TRANSIT
LTG	LIGHTING
LTR	LEFT (REF)

M	MAIN
MACH	MACHINE OR MACHINERY
MAG	MAGNESIUM OR MAGNETIC
MAINT	MAINTENANCE
MAX	MAXIMUM
MC	MID CORRIDOR
MCD	MULTIPLE CONCRETE DUCT
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
M/L	MATCH LINE
MON	MONUMENT
MP	MEDIUM PRESSURE
MPH	MILES PER HOUR
MTC	MULTI-TILE CONDUIT
MTD	MULTI-TILE DUCT
N	NORTH
NA	NOT APPLICABLE
NB	NORTHBOUND
NF	NEAR FACE
NIC	NOT IN CONTRACT
N/N	NORTH OF NORTH RIGHT-OF-WAY LINE
N/O	NORTH OF
NO. or #	NUMBER
NRCP	NON-REINFORCED CONCRETE PIPE
NS	NEAR SIDE
N/S	NORTH OF SOUTH RIGHT-OF-WAY LINE
NTS	NOT TO SCALE
OC	ON CENTER OR ON CENTERS
OCS	OVERHEAD CONTACT SYSTEM
OD	OUTSIDE DIAMETER
OFC	ORANGEBURG FIBER CONDUIT
OH	OVERHEAD
OP	OPEN TRACK
OPP	OPPOSITE
ORL	ORNAMENTAL LIGHTS
P	PIPE
PA	POLICE ALARM OR PUBLIC ADDRESS
PB	PULL BOX
PCC	PORTLAND CEMENT CONCRETE
PCCP	PRE-STRESSED CONCRETE CYLINDER PIPE
PCL	PRIMARY CONTROL LINE
PD	PAPER DUCT
PE	POLYETHYLENE
PED	PEDESTRIAN
PEM	POLYETHYLENE MAIN
PF	POINT OF FROG
PGL	PROFILE GRADE LINE
PIV	POST INDICATOR VALVE
PL	PLATE
PL	PROPERTY LINE

PLD	PLASTIC DUCT
PLT	PLASTIC TILE
PM	PARKING METER
PO	PUSH-ON JOINT
POL	POLICE
PP	POWER POLE
PPD	PAPER PIPE DUCT
PROD	PRODUCT
PROP	PROPERTY
PRPSD	PROPOSED
PS	POINT OF SWITCH
PSP	PAINT SHOP
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
PVCC	POLYVINYL CHLORIDE CONDUIT
PVMT	PAVEMENT
QTY	QUANTITY
QUAD	QUADRANT
R	RADIUS
RCB	REINFORCED CONCRETE BOX (CULVERT)
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RECT	RECTANGLE OR RECTIFIER
REF	REFERENCE
REINF	REINFORCE, REINFORCED OR REINFORCEMENT
RET	RETAINING
REV	REVISE, REVISED OR REVISION
RGS	RIGID GALVANIZED STEEL
RH	RIGHT HAND
REQ'D	REQUIRED OR REQUIRE
RR	RAILROAD
RRS or RS	RAILROAD SIGNAL
RSC	RAILROAD SIGNAL & COMMUNICATION
RT	RIGHT
RTR	RIGHT (REF)
RET W	RETAINING WALL
R/W	RIGHT-OF-WAY
RY	RAILWAY
S	SOUTH
SA	SERVICE AISLE
S&I	SERVICE AND INSPECTION
SB	SOUTHBOUND
SCC	STEEL CYLINDER CONCRETE (PIPE)
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SECT	SECTION
SECY	SECRETARY
SGL	SUB-GRADE LINE
SHT	SHEET

SIG	SIGNAL
SIM	SIMILAR
SL	STREET LIGHT
SLG	STREET LIGHT CONDUIT
SLP	SLOPE
SLPR	SLOPE (REF)
SMH	SEWER MANHOLE
S/N	SOUTH OF NORTH RIGHT-OF-WAY LINE
SP	SPACE OR SPACING
SPTC	SOUTHERN PACIFIC TRANSPORTATION COMPANY (REF
SPEC	SPECIFICATION(S) (REF)
SPR	SPRINKLER
SQ	SQUARE
SS	SANITARY SEWER
S/S	SOUTH OF SOUTH RIGHT-OF-WAY LINE
SSD	SANDSTONE CEMENT DUCT
ST	STREET
STA	STATION
STD	STANDARD
STL	STEEL
STM	STEAM
STOR	STORAGE
STRUCT	STRUCTURE
STY	STYRENE
SUB	SUBMITTED
SUPV	SUPERVISE OR SUPERVISOR
SUR	SURFACE
SW	SWITCH
SWK	SIDEWALK
SYM	SYMMETRICAL
S-1 to S-13	STORAGE TRACKS 1 TO 13
TAN	TANGENT
T&B	TOP AND BOTTOM
TC	TILE CONDUIT, TOP OF CURB OR TRACK CENTER
TD	TILE DUCT OR TILE DRAIN
TEL	TELEPHONE
TELE	TELESCOPING
TEMP	TEMPERATURE OR TEMPORARY
TERM	TERMINAL
TF	TOP OF FACE
TG	TOP OF GRADE, TOP OF GRATE OR TELEGRAM
THEO	THEORETICAL
THK	THICK OR THICKNESS
THRU	THROUGH
TL	TRAFFIC LIGHT OR TOE LENGTH
TMH	TELEPHONE MANHOLE
TO	TURNOUT
TOC	TOP OF CURB
TOCON	TOP OF CONCRETE
TOP	TOP OF PIPE
T/R	TOP OF RAIL
TOS	TOP OF SLOPE
TPSS	TRACTION POWER SUPPLY SYSTEM
TPS/S	TRACTION POWER SUBSTATION
TRD	TRANSITE DUCT
TRK	TRACK
TS	TRAFFIC SIGNAL
TSC	TRAFFIC SIGNAL CONDUIT
TV	TELEVISION
TVM	TICKET VENDING MACHINE
T/W	TOP OF WALL
TW	TRAVELLED WAY
TYP	TYPICAL

FINAL DESIGN

85% REVIEW

AUG 09 1989

Work Element	Physical Entity	Contract Designator	Line Item	Cost Element	Account Number

REV	DATE	DESCRIPTION	BY	CHK
B	12-17-86	SEAL ADDED PER CR 6F-135	KA	W
A	6/6/86	INITIAL ISSUE		

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GEORGE P. STAYSNE No. 15144 EXP. 6/30/89 REGISTERED PROFESSIONAL ENGINEER CIVIL STATE OF CALIFORNIA

LACTC **LOS ANGELES COUNTY TRANSPORTATION COMMISSION**
The Long Beach-Los Angeles Rail Transit Project

TRANSCAL
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A Joint Venture of:
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- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

CIVIL AND UTILITY STANDARD ABBREVIATIONS SHT 2 OF 3

CONTRACT NO.	ROI-TOI-C2
DRAWING NO.	CES-0003
REV.	B
SHEET NO.	5
SCALE	NONE

MISCELLANEOUS

UD	UNDERDRAIN
UG	UNDERGROUND
UN	UNLESS NOTED
UNK	UNKNOWN
US	UNITED STATES
V	VALVE
VAC	VACUUM
VAR	VARIES OR VARIABLE
VCC	VITRIFIED CLAY CONDUIT
VCD	VITRIFIED CLAY DUCT
VCP	VITRIFIED CLAY PIPE
VCP(ES)	VITRIFIED CLAY PIPE (EXTRA STRENGTH)
VCT	VITRIFIED CLAY TILE
VERT	VERTICAL
VLT	VAULT
W	WEST
W/	WITH
WB	WESTBOUND
WD	WATER DECTECTOR
W/E	WEST OF EAST RIGHT OF WAY LINE
WG	WHITE GAS
WHSE	WAREHOUSE
WI	WROUGHT IRON
WID	WIDTH
WIP	WROUGHT IRON PIPE
WL	WATER LEVEL
WLN	WATER LINE
WM	WATER METER
W/O	WITHOUT
WP	WORKING POINT OR WORK POINT
WSP	WELDED STEEL PIPE
WSP(L)	WELDED STEEL PIPE (CEMENT LINED)
WTR	WATER
WTW	WALL TO WALL
WV	WATER VALVE
WW	WASTEWATER
W/W	WEST OF WEST RIGHT OF WAY LINE
X-DRAIN	CROSS DRAIN
X-ING	CROSSING
X-MITTER	TRANSMITTER
X-OVER	CROSS OVER
X-SECT	CROSS SECTION
YR	YARD RUN-AROUND

FINAL DESIGN

85% REVIEW

AUG 0 9 1988

Work Element	Physical Entity	Contract Designator	Line Item	Cost Element

1	WITCO SEAL ADDED PER SP 65-175	8/20	LJ

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LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

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CIVIL AND UTILITY STANDARD ABBREVIATIONS
SHT 3 OF 3

CONTRACT NO. ROI-TOI-C
DRAWING NO. CES-0004
REV. B
SHEET NO. 6

EXISTING		PROPOSED
N/A	ASPHALT CONCRETE PAVEMENT	
	ABANDONED UNDERGROUND UTILITY	
	ASPHALT ROAD	
N/A	BASE COURSE	
	BALLAST	
	BLOCK WALL	
N/A	BORING & NUMBER	1000
	BOX	
N/A	BASE SUBBALLAST	
	BILLBOARD	
	HOSE BIB	
	BENCH MARK (PLOTTED FROM CITY OF LOS ANGELES DESCRIPTIONS)	
	BUILDING	
	FOUNDATION OR RUIN	
	BRIDGE	
	TIMBER OR BRUSH AREA	
	DROP INLET OR CATCH BASIN	
	CONCRETE BARRIER	
	BARRICADE POSTS	
	CENTER LINE	
	LEFT HAND CURVE	
	RIGHT HAND CURVE	
	SINGLE CROSSOVER	
	DOUBLE CROSSOVER	
N/A	COORDINATE NUMBER	000-0
N/A	CURVE NUMBER	0000
	CANOPY	
N/A	CONDUIT RUN NUMBER	N/A
CONC	CONCRETE	
	CONTOUR LINES	
	CATCH BASIN OR DROP INLET	
	CLEANOUT	
	COLUMN	
N/A	O C S SUPPORT (INSIDE BUILDING)	
	CONTROL POINT OR STREET INTERSECTION POINT	

EXISTING		PROPOSED
	PRIMARY CONTROL LINE	
	HEADWALLS CULVERT ENDWALLS	
	CORROSION CONTROL CURB TEST BOX	
	CURB	
	CULVERT & HEADWALLS	
	CHANNEL	
	CURB AND GUTTER	
—CATV—	CABLE TELEVISION	—CATV—
	CONCRETE CHANNEL	
	DRAINAGE DITCH OR SWALE	
	ROAD DIVIDER	
N/A	TRENCH DRAIN	
	DRIVE OR WALK	
	DEPRESSION	N/A
N/A	ELASTOMER	
	SUBGRADE EARTH	
	EMBANKMENT OR SLOPE	
× 173.2	EXISTING SPOT ELEVATION (PHOTOGRAMMETRIC)	× 173.2
175.2	SPOT ELEVATION (TAKEN AT DECIMAL POINT)	175.2
173.12	FINISH GRADE ELEVATION	173.12
(175.2)	ELEVATION ON TRANSMISSION TOWER	
169.4	INVERT ELEVATION	169.4
36.0	ELEVATION AT POINT	36.0
□ ECB	ELECTRIC CONTROL BOX	□ ECB
	SEWER WATER OR GAS ENCASEMENT	
□ EV	ELECTRICAL VAULT	□ EV
—x—x—	FENCE-CHAIN LINK OR OTHER	—x—x—
	FLOW OR DIRECTION OF FLOW	
	FIRE HYDRANT	
	FIRE ALARM BOX	
	WOOD FENCE	
	FENCE AND GATE	
	FLOOD CHANNEL OR WASH	N/A
—FA—	FIRE ALARM	—FA—
FS	FIRE SERVICE STANDPIPE	FS

EXISTING		PROPOSED
N/A	GAUGE LINE	
N/A	GRADE CROSSING	
	EXISTING GROUND LINE	
	GATE	
	GRAVEL	
N/A	GUARD HOUSE	
	GUARD POST	
	GUARD RAIL	
	GUY STUB	
GV GM	REDUCER, GAS VALVE, GAS METER, CAP OR PLUG	GV GM
—G—	GAS	—G—
—Gs—	GASOLINE	—Gs—
N/A	ORIGINAL GROUND	OG
N/A	LRT C/S SYSTEM HANDHOLE	400
N/A	HEADSPAN	
	HEDGE	N/A
N/A	PI/PVT	PI or PVI
N/A	STANDARD JOINT	
N/A	BONDED STANDARD JOINT	
N/A	BONDED INSULATED JOINT	
N/A	BONDED STANDARD JOINT	ON RAIL LAYOUT DIAGRAMS
N/A	BONDED INSULATED JOINT	
N/A	STANDARD JOINT	
N/A	INSULATED JOINTS ON BOTH RAILS (TRACK CHARTS)	
N/A	MATCH LINE	
OR	DRAINAGE MANHOLE	OR
	SURVEY MONUMENT	
100	LRT C/S SYSTEM MANHOLE	100
	TRACTION POWER MANHOLE (REF)	
	MANHOLE WELL OR TANK	
	LIGHT WITH POST	
	LANE LINES	
	IRON PIN OR MONUMENT WITH PIN	
SMH, EMH, TMH, ETC	MANHOLE	SMH, EMH, TMH, ETC
MB	MAIL BOX	MB

FINAL DESIGN

AUG 09 1988

85% REVIEW

EXISTING		PROPO
TMH, EMH, ETC	MANHOLE PULL BOX OR SPLICING CHAMBER	
TMH, EMH, ETC	LARGE MANHOLE VAULT JUNCTION BOX TO SCALE COMPANY DESIGNATION	
	MARSH OR TIDAL AREA	N/A
	OVERHEAD SIGN	N/A
	ORCHARD	N/A
—O—	OIL	—O—
OW	OIL WELL	
—ORL—	ORNAMENTAL LIGHTING	—ORL
—OH—	OVERHEAD WIRES AND CABLES	—OH
	ASPHALT PARKING	
N/A	BUMPING POST	
	UTILITY POLE	
N/A	OCS POLE/FOUNDATION & NUMBER	26
N/A	HANDICAPPED PARKING	
PM	PARKING METER	
	POLE	
	EDGE OF PAVEMENT	EP
N/A	POLE WITH SINGLE CANTILEVER	
N/A	POLE WITH BACK TO BACK	
N/A	POLE WITH DOWN GUY	
	LIGHT TOP POST	
	POST, SIGN, PARKING METER	
N/A	AUTOMATIC DRINKING FOUNTAIN	
	GAS LIGHT POLE	
	JOINT USE POLE	
	POLE GUY AND ANCHOR	
	POWER POLES OR LIGHT POLES	
POL COM	POLICE COMMUNICATION	POL COM
PWR	POWER (ELECTRIC)	PWR
P C 1 4	PICTURE CORNER	N/A
N/A	STANDARD RAIL	
N/A	HIGH STRENGTH RAIL	

C	2-12-87	REVISED PER CR 7F-011	
B	12-7-87	SEAL ADDED PER CR 6F-135	

Work Element | Physical Entity | Contract Designator | Line Item | Cost Element | Project Number

Information confidential: all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for any purpose not provided

DESIGNED BY
DRAWN BY CAD
CHECKED BY
APPROVED BY

EXP. 6/30/89

LACTC

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

TRANSCAL
Transit Consultants of Southern California

Transit Consultants of Southern California
A Joint Venture of:
- Parsons Brinckerhoff Quade & Douglas, Inc.
- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation

CIVIL AND UTILITY STANDARD SYMBOLS SH. 1 OF 2

CONTRACT NO. ROH-TOI-C
DRAWING NO. CES-0005
REV. C
SHEET NO. 7
SCALE

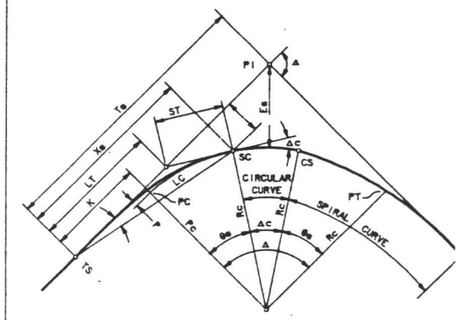
EXISTING		PROPOSED
N/A	CONTINUOUS WELDED RAIL	OR
	EXISTING RAILROAD (NON-LRT)	
	RAILROAD TRACK	LT TRK / RT TRK
	RIGHT OF WAY	
RS	RAILROAD SWITCH	
R	RIDGE	R
N/A	RAILROAD CROSSING SIGNAL	
N/A	RAILROAD CROSSING SIGN WITH FLASHES	
	RAILROAD SIGNAL	
	RAILROAD SIGNAL BOX	
	RAILROAD MILE POST	
	GRAVEL OR DIRT ROAD	N/A
RSC	RAILROAD SIGNAL & COMMUNICATION	RSC
N/A	POINT OF SWITCH-LOCATION OF SWITCH MACHINE	
N/A	STATION EQUALITIES	AR 19+00.0 AL 20+00.0 (OFFSET 25.1')
N/A	STATION EQUATION	AR 19+00 BK AL 20+00 AH
N/A	STEEL	
	DRAINAGE SWALE	
SD	STORM DRAIN	SD
	PERFORMED SUBDRAIN	
N/A	POINT SWITCH	
N/A	POWER OPERATED SWITCH MACHINE	
N/A	HAND OPERATED SWITCH MACHINE	
	LIGHT TRANSIT SIGNAL	
N/A	SIGNAL EQUIPMENT	
N/A	DENOTE PC POINT STA 19+00 AR LINE	PC AR 19+00
	SURFACED STREET HIGHWAY OR ROAD	
	SAND	
	STREAM OR RIVER	N/A
	SPRING	N/A
SLHV	STREET LIGHT HIGH VOLTAGE	SLHV
SS	SANITARY SEWER	SS
SLV	STREET CAST VAULT	SLV
STM	STEAM	STM
3 2 / 10 11	SECTION CORNER	N/A

EXISTING		PROPOSED
N/A	TURNOUT	
N/A	POINT OF INTERSECTION OF TURNOUT (PITO)	
1" DASH	TRAVEL WAY	1" DASH
	EXISTING TRACK FUTURE TRACKS	
TLB	TRAFFIC LIGHT BOX	TLB
N/A	TIMBER	
N/A	TURNOUT WITH NUMBER INDICATED	#10
	TRAFFIC LIGHT	
TSV	TRAFFIC SIGNAL VAULT	TSV
TL	POST LIGHT TRAFFIC LIGHT	TL
	TRAFFIC SIGN	
	LIGHT TRAFFIC LIGHT	
	TRANSMISSION LINE TOWER - TO SCALE	
	TELEPHONE BOOTH	
	TRAIL	N/A
	WALL OVERHEAD TRANSMISSION LINE	
	TREE	
	PALM TREE	
TEL	TELEPHONE	TEL
TG	TELEGRAPH	TG
TSC	TRAFFIC SIGNAL CONDUIT	TSC
	OTHER UTILITY FEATURES (IDENTIFIED)	
	UTILITY CROSSING MARKER	
N/A	UNDERDRAIN	UD
V	VALVE VENT	V
	PRIVATE VALULT - TO SCALE	
V V	VAULTS	V V
	VINEYARD	
HVV	HIGH VOLTAGE VAULT	HVV
N/A	WELDING	N/A
	WALL OR RETAINING WALL	
	OIL WELL	
WM WV	REDUCER, WATER-METER, WATER VALVE, CAP OR PLUG	WM WV
	BODY OF WATER	N/A
W	WATER	W

TRAFFIC ENGINEERING SYMBOLS

EXISTING		PROPOSED
	SIGNAL CONDUIT	
	TRAFFIC SIGNAL EACH ARROW THREE 8" SECTIONS	
12"	TRAFFIC SIGNAL THREE 12" SECTIONS	12"
	TRAFFIC SIGNAL WITH BACKPLATE & BEVELED VISOR	
	TRAFFIC SIGNAL WITH RADIO ANTENNA	
	TRAFFIC SIGNAL FOUR SECTIONS THREE 8" SECTIONS (R,Y,G) +12" GREEN ARROW	
12"	TRAFFIC SIGNAL FOUR SECTIONS THREE 12" SECTIONS R,Y,G) +12" GREEN ARROW	12"
	TRAFFIC SIGNAL THREE SECTIONS TWO 8" SECTIONS (R,Y) +12" GREEN ARROW	
12"	TRAFFIC SIGNAL THREE SECTIONS TWO 12" SECTIONS (R,Y) +12" GREEN ARROW	12"
R Y G	TRAFFIC SIGNAL WITH LIGHT(S) LOUVERED INDICATES LIGHT(S) LOUVERED	R Y G
	MAST ARM TRAFFIC SIGNAL	
	MAST ARM TRAFFIC SIGNAL AND ELECTROLIER	
	PEDESTRIAN WALK-DON'T WALK SIGNAL (NEON)	
ppb	PEDESTRIAN PUSH BUTTON	ppb
	PUSH BUTTON STANDARD (LINES INDICATES QUADRANT FOR INSTALLATION)	
bpb	BICYCLIST PUSH BUTTON	bpb
	COMMUNICATION CABINET	
	SIGNAL CONTROLLER	
M	MASTER CONTROLLER	M
	PULL BOX	
dir	NONDIRECTIONAL PRESSURE DECTECTOR	DIR
	DIRECTIONAL PRESSURE DETECTOR	
	INDUCTIVE LOOP DETECTOR	
	ELECTROLIER PENDANT TYPE	
	ELECTROLIER UPRIGHT TYPE	
	POWER POLE	
	POWER POLE WITH GUY ANCHORS	
	TRAFFIC SIGNAL FIVE SECTIONS - 12" RED, YELLOW AND GREEN ARROW'S	
	TRAFFIC SIGNAL FIVE SECTIONS - THREE 8" SECTIONS (R,Y,G) +12" YELLOW AND GREEN ARROWS	
12"	TRAFFIC SIGNAL FIVE SECTIONS - THREE 12" SECTIONS (R,Y,G) +12" YELLOW AND GREEN ARROWS	12"
12" PV	TRAFFIC SIGNAL THREE 12" PROGRAMMED VISIBILITY SECTIONS (R,Y,G)	12" PV

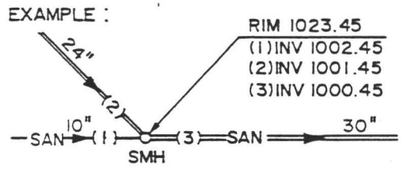
SPIRAL CURVE TERMINOLOGY



MANHOLE INVERT DATA

MANHOLE DATA IS INDICATED BY ARROWED LEADER GIVING TOP & INVERT ELEVATIONS.

EXAMPLE :



FINAL DESIGN

85% REVIEW

AUG 09 1988

Work Element	Physical Entity	Contract Designator	Line Item	Cost Element

C	2-12-87	REVISED PER CR 7F-011
B	12-17-86	SEAL ADDED PER CR 6F-135

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DESIGNED BY
DRAWN BY CAD
CHECKED BY B. Haghani
APPROVED BY

EXP 6/30/89

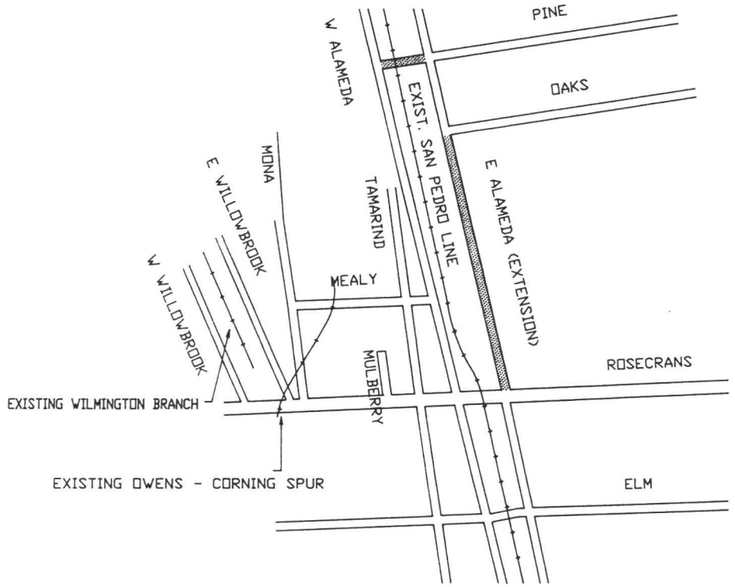
LACTC **LOS ANGELES COUNTY TRANSPORTATION COMMISSION**
The Long Beach-Los Angeles Rail Transit Project

TRANSCAL Transit Consultants of Southern California

Transit Consultants of Southern California
A Joint Venture of: Parsons Brinckerhoff Quade & Douglas, Inc. / Daniel, Mann, Johnson & Mendenhall / Kaiser Engineers (California) Corporation

CIVIL AND UTILITY STANDARD SYMBOLS SH. 2 OF 2

CONTRACT NO. ROI-TOI-C
DRAWING NO. CES-0006
REV. C
SHEET NO. 8

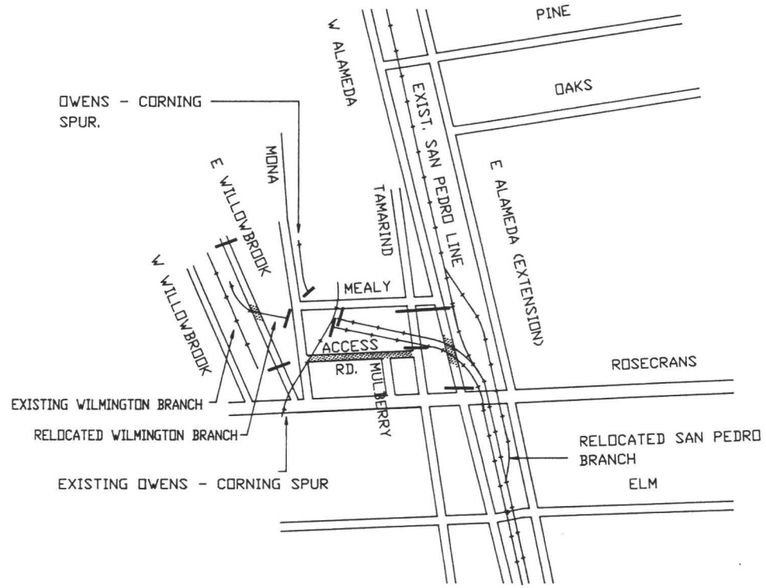


STAGE 1

STAGE 1

ROAD: CONSTRUCT PINE GRADE CROSSING
CONSTRUCT E ALAMEDA EXTENSION FROM ROSECRANS TO OAKS.

RAIL: MC-5 IS THE RELOCATED WILMINGTON BRANCH AND THE OWENS - CORNING SPUR TRACK.

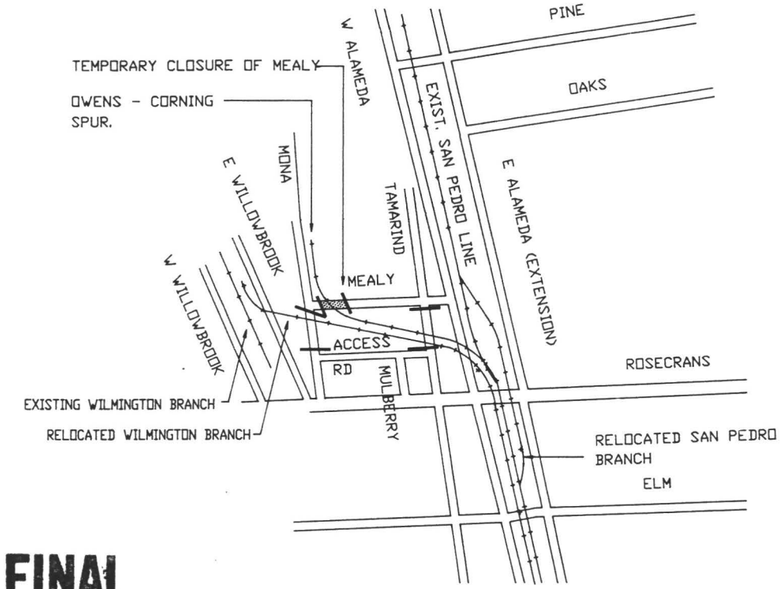


STAGE 2

STAGE 2

ROAD: CLOSE W ALAMEDA FROM MEALY TO ROSECRANS - REROUTE TRAFFIC THROUGH MEALY TO MONA AND THROUGH PINE TO E ALAMEDA.
STAGE CONSTRUCTION OF ROSECRANS CROSSING - SEE CONSTRUCTION PHASE SHEET 2 & 3.
CONSTRUCT ACCESS ROAD FROM TAMARIND TO MONA.
CLOSE TAMARIND PERMANENTLY FROM MEALY TO NEW ACCESS ROAD - REROUTE TRAFFIC THROUGH MONA.
CLOSE E WILLOWBROOK.

RAIL: CONSTRUCT MC-5. LEAVE GAPS AT MONA, MEALY, ROSECRANS AND EXISTING OWENS - CORNING SPUR.
STAGE CONSTRUCTION OF ROSECRANS CROSSING WITH MC-5 CONSTRUCTION AND RELOCATED SAN PEDRO BRANCH LINE - SEE CONSTRUCTION PHASE SHEET 2 & 3.



STAGE 3

STAGE 3

ROAD: OPEN W ALAMEDA FROM MEALY TO ROSECRANS
OPEN E WILLOWBROOK.
CLOSE MEALY TEMPORARILY - EAST OF MONA AROUND OWENS-CORNING SPUR CROSSING.
CLOSE MONA PERMANENTLY - SOUTH OF MEALY AROUND RELOCATED WILMINGTON BRANCH.

RAIL: COMPLETE MC-5 CONSTRUCTION. CLOSE GAPS AT MONA, AND MEALY. REMOVE EXISTING OWENS - CORNING SPUR.
OPEN MC-5.

ROAD: OPEN MEALY.

FINAL DESIGN

85% REVIEW

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DESIGN BY	A. PAK-POY
DRAWN BY	CADD
CHECKED BY	S. TSO
APPROVED BY	S. OYAMA
DATE	

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

Transit Consultants of Southern California
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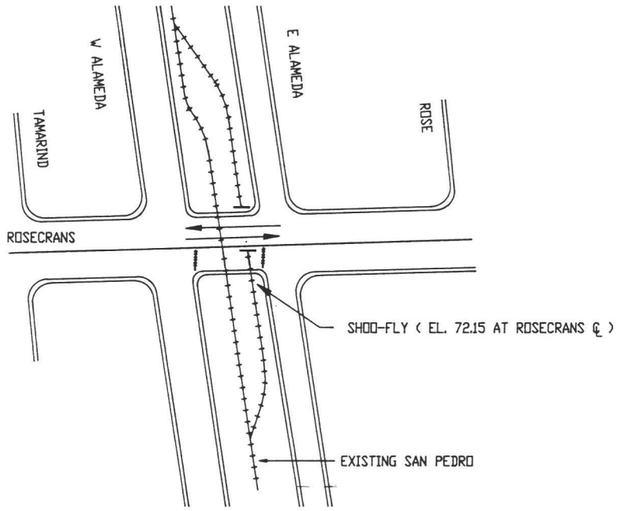
- Parsons Brinckerhoff Quade & Douglas, Inc -
- Daniel Mann Johnson & Mendenhall -
- Kaiser Engineers (California) Corp -
- North Pacific Construction Management

STOCKWELL TO DEL AMO
RAILROAD RELOCATION WORK

CONSTRUCTION PHASE SHEET 1 OF 3

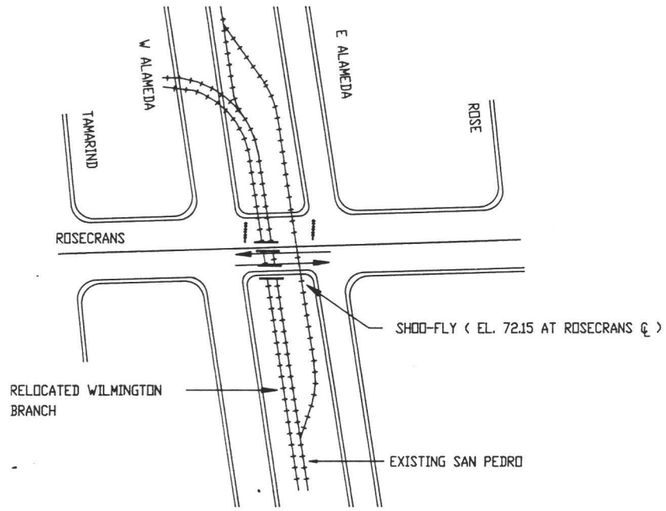
CONTRACT NO. R01 - T01 - (
DRAWING NO. GI - 0905
REV.
SHEET NO. 9
SCALE NOT TO SCALE



STAGE 2 A

ROAD: CLOSE SOUTH HALF OF ROSECRANS.
PROVIDE ONE LANE IN EACH DIRECTION IN NORTH HALF.

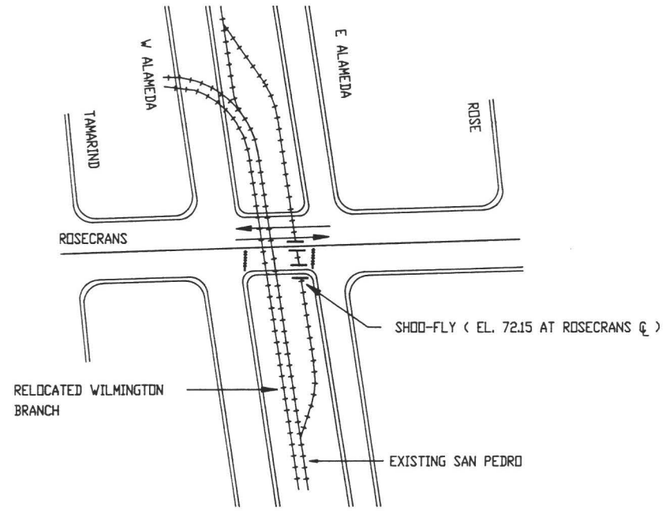
RAIL: CONSTRUCT SHOO-FLY EAST OF EXISTING SAN PEDRO BRANCH AT ELEVATION 72.15 AT ROSECRANS ℄ LEAVE GAP ACROSS NORTH HALF.



STAGE 2 B

ROAD: CLOSE NORTH HALF OF ROSECRANS.
ROUTE TRAFFIC THROUGH SOUTH HALF.

RAIL: COMPLETE SHOO-FLY CONSTRUCTION ACROSS ROSECRANS.
RELOCATE SAN PEDRO BRANCH TRAFFIC TO SHOO-FLY.
LOWER EXISTING SAN PEDRO BRANCH TRACKS TO ELEVATION 71.50 AT ROSECRANS ℄.
LEAVE GAP AT SOUTH HALF.
CONSTRUCT MC-5 (RELOCATED WILMINGTON BRANCH) AT ELEVATION 71.50 AT ROSECRANS ℄ LEAVE GAP AT SOUTH HALF.



STAGE 2 C

ROAD: CLOSE SOUTH HALF OF ROSECRANS.
ROUTE TRAFFIC THROUGH NORTH HALF.

RAIL: CONSTRUCT REMAINING MC-5 AT ELEVATION 71.50 (AT ROSECRANS ℄)
LOWER REMAINING SAN PEDRO BRANCH TRACKS TO ELEVATION 71.50.
REROUTE SAN PEDRO BRANCH TRAFFIC BACK TO EXISTING BRANCH LINE.
REMOVE SHOO-FLY, EXCEPT FOR SEGMENT OVER NORTH HALF OF ROSECRANS.
RELOCATE SAN PEDRO BRANCH TRACK ALONG SHOO-FLY ALIGNMENT AT ELEVATION 71.50. LEAVE GAP AT NORTH HALF.

85% REVIEW

FINAL DESIGN

AUG 09 1988

Work Element | Physical Entity | Contract Package | Line Item | Cost Element

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DESIGN BY A. PAK-POY
DRAWN BY CADD
CHECKED BY S. TSO
APPROVED BY S. OYAMA

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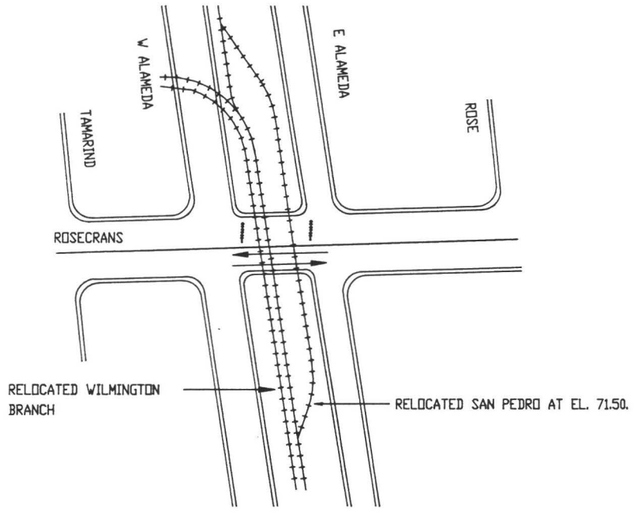
The Long Beach-Los Angeles Rail Transit Project

Transit Consultants of Southern California
A Joint Venture of ■ Parsons Brinckerhoff Quade & Douglas, Inc - ■ Daniel Mann Johnson & Mendenhall - ■ Kaiser Engineers (California) Corp -

STOCKWELL TO DEL AMO
RAILROAD RELOCATION WORK
CONSTRUCTION PHASE SHEET 2 OF 2

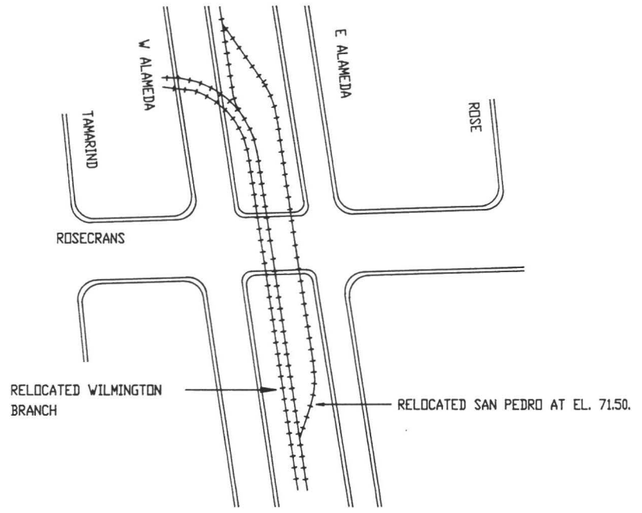
CONTRACT NO. RO1 - TO1 -
DRAWING NO. GI - 090E
REV.
SHEET NO. 10
SCALE



STAGE 2 D

ROAD: ROUTE TRAFFIC TO SOUTH HALF OF ROSECRANS. .

RAIL: RELOCATE REMAINING SAN PEDRO BRANCH LINE OVER ROSECRANS.
REROUTE SAN PEDRO BRANCH LINE TRAFFIC TO RELOCATED TRACKS.



STAGE 2 E

ROAD: OPEN ROSECRANS COMPLETELY. RETURN TRAFFIC TO NORMAL OPERATION.

FINAL DESIGN

85% REVIEW

AUG 09 1988

Work Element | Physical Entity | Contract Designator | Use Num | Cost Element

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DESIGN BY A. PAK-POY
DRAWN BY CADD
CHECKED BY S. TSO
APPROVED BY S. OYAMA

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
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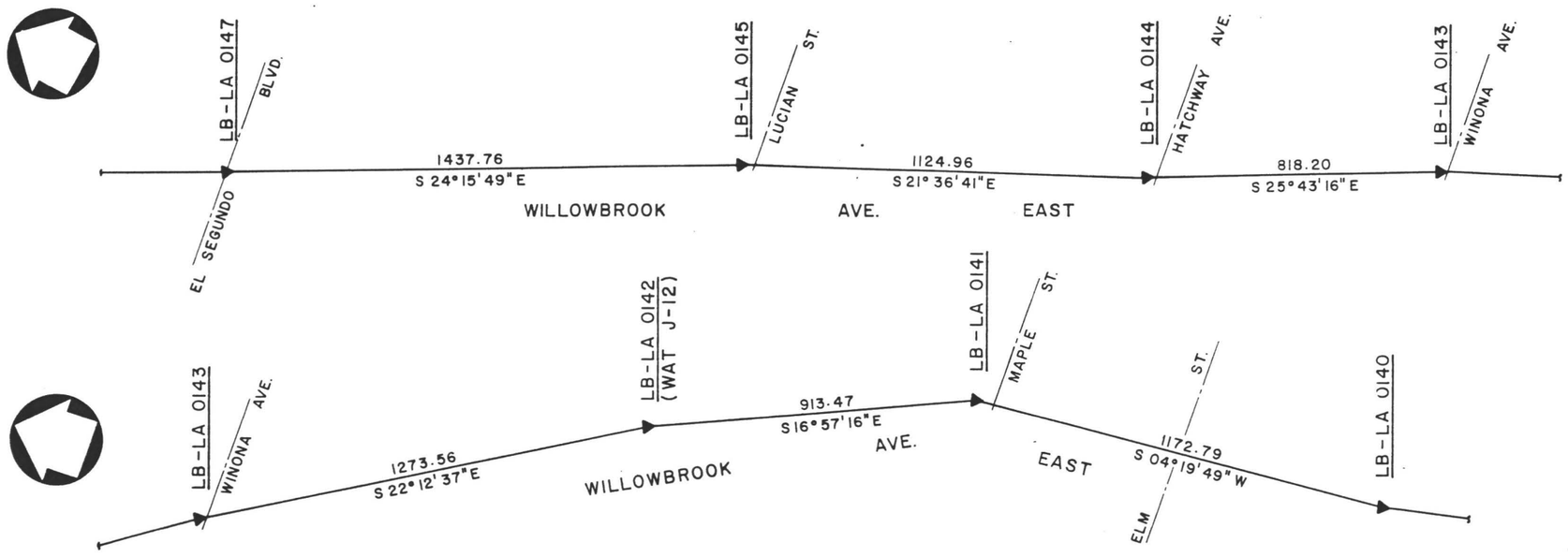
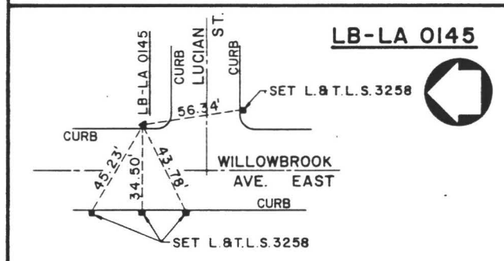
STOCKWELL TO DEL AMO
RAILROAD RELOCATION WORK
CONSTRUCTION PHASE SHEET 2 OF 2

CONTRACT NO. RO1 - TO1 -
DRAWING NO. GI - 0907
REV.
SHEET NO. 11
SCALE



MONUMENT LOCATION PLAN

LB-LA 0145



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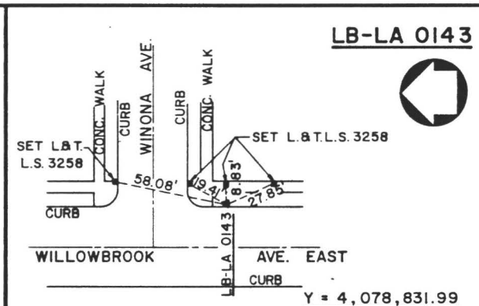
X = 4,218,560.99
Z = 74.888

LB-LA 0143



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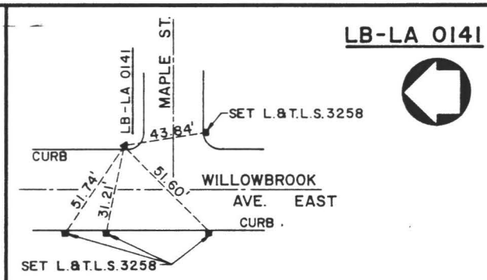
Z = 71.494

LB-LA 0141



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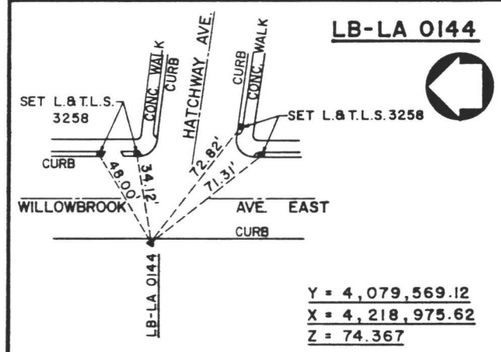
Z = 68.657

LB-LA 0144



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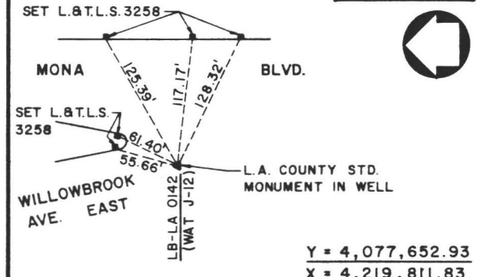
LB-LA 0142



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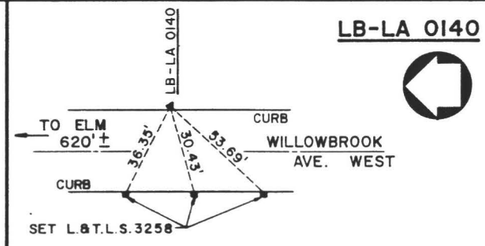
Z = ——

LB-LA 0140



Y = 4,075,609.72
X = 4,219,989.66
Z = 67.139

LEGEND

▲ MONUMENTS ARE 2" BRASS CAPS SET IN TOP OF CURB STAMPED LACTC LS 3258 LB-LA 0---
(EXCEPTIONS ARE NOTED ON SKETCHES)

NOTES:

1. ALL DISTANCES SHOWN ON LOCATION PLAN ARE HORIZONTAL GRID DISTANCES.
2. GRID DISTANCE EQUALS GROUND LEVEL DISTANCE MULTIPLIED BY GRID FACTOR.
3. GRID FACTOR EQUALS 0.99999215
4. VERTICAL CONTROL POINT IS INDICATED ON LOCATION SKETCHES.
5. ALL COORDINATES VALUES ARE STATE PLANE COORDINATES, ZONE VII.
6. ELEVATION VALUES ARE MEAN SEA LEVEL.
7. TIES ARE NOT TO BE USED TO RESET MONUMENTS, BUT AS REFERENCE ONLY.

FINAL DESIGN

85% REVIEW

AUG 09 1988

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DESIGNED BY F.K. MACAVINTA
DRAWN BY F.K. MACAVINTA
CHECKED BY R. CORMIER
APPROVED BY F. HENSTRIDGE

THOMAS W. HENSTRIDGE 3258 REGISTERED LAND SURVEYOR

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

PSOMAS & ASSOCIATES — CIVIL ENGINEERS, LAND PLANNERS, LAND SURVEYORS — 150 A PAULARINO AVE. COSTA MESA, CA 92626 PHONE 714 • 751-7373

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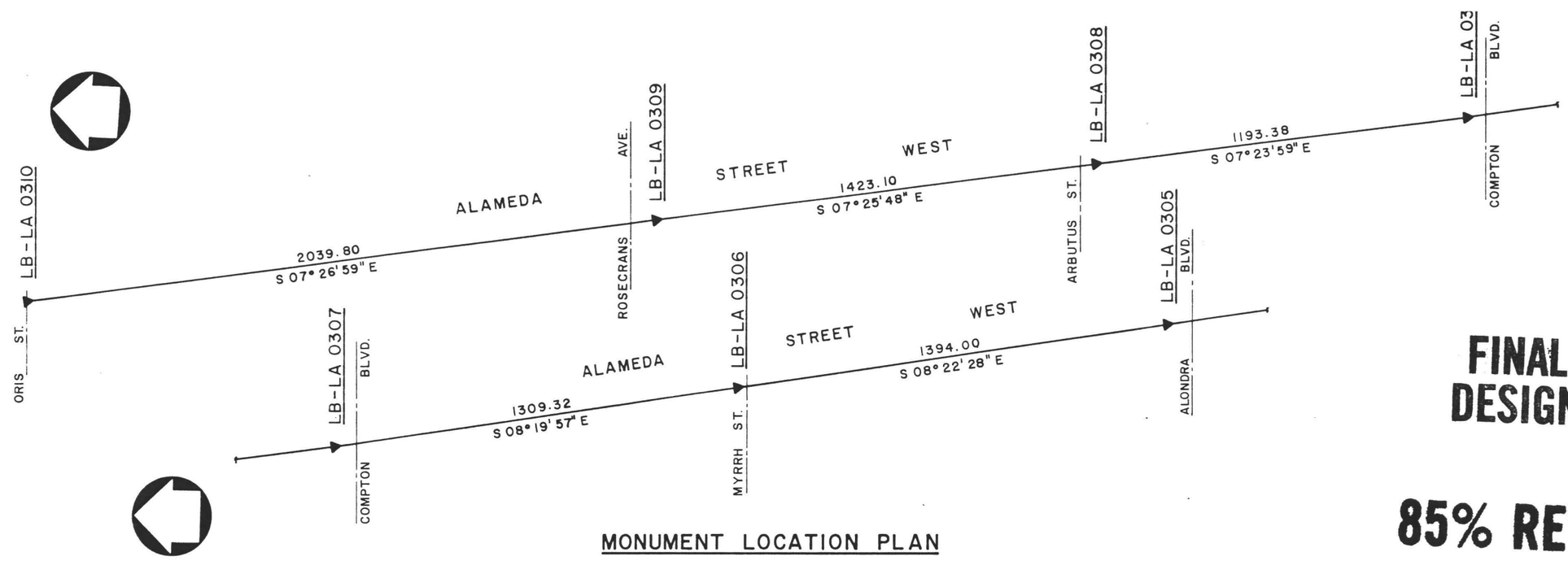
A Joint Venture of: Parsons Brinckerhoff Quade & Douglas, Inc. / Daniel, Mann, Johnson & Mendenhall / Kaiser Engineers (California) Corporation

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK

PRIMARY SURVEY CONTROL MONUMENTATION

CONTRACT NO. ROI-TO I-
DRAWING NO. CS-090
REV.
SHEET NO. 12
SCALE



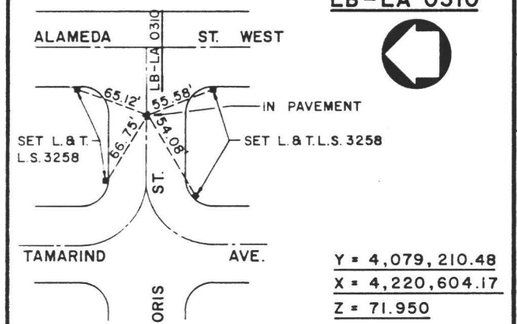
MONUMENT LOCATION PLAN

FINAL DESIGN

85% REVIEW

AUG 0 9 1988

LB-LA 0310



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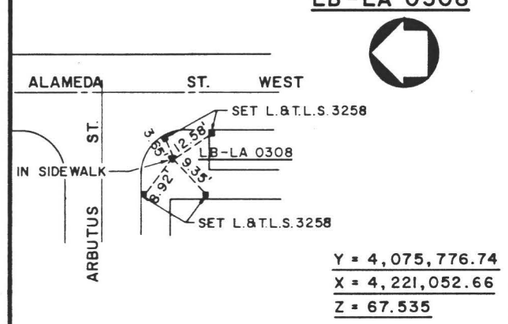
Z = 71.950

LB-LA 0308



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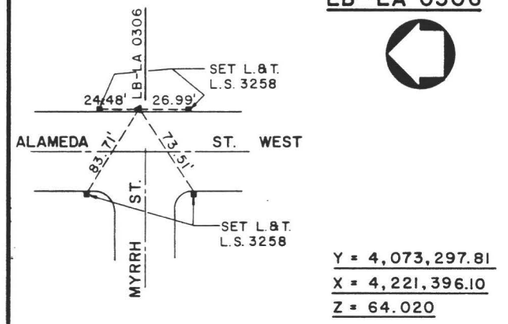
Z = 67.535

LB-LA 0306



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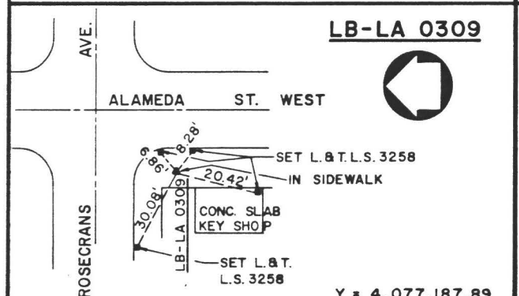
LB-LA 0309



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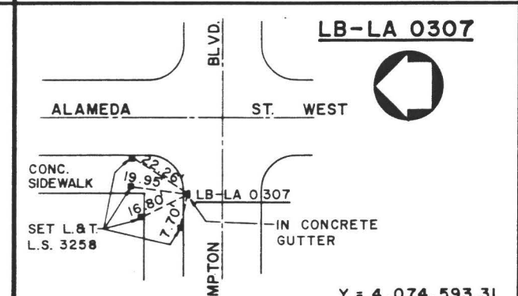
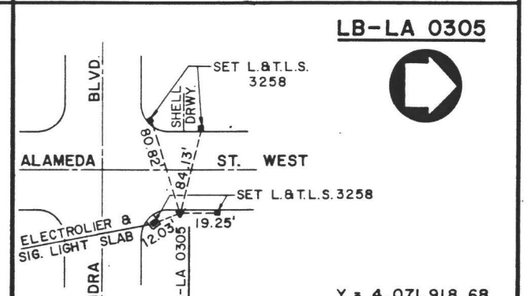
Z = 70.127

LB-LA 0307



Y = 4,074,593.31
X = 4,221,206.36
Z = 66.412

LB-LA 0305



Y = 4,071,918.68
X = 4,221,599.13
Z = 63.809

LEGEND

▲ MONUMENTS ARE 2" BRASS CAPS SET IN TOP OF CURB STAMPED LACTC LS 3258 LB-LA 0---
(EXCEPTIONS ARE NOTED ON SKETCHES)

NOTES:

1. ALL DISTANCES SHOWN ON LOCATION PLAN ARE HORIZONTAL GRID DISTANCES.
2. GRID DISTANCE EQUALS GROUND LEVEL DISTANCE MULTIPLIED BY GRID FACTOR.
3. GRID FACTOR EQUALS 0.99999215
4. VERTICAL CONTROL POINT IS INDICATED ON LOCATION SKETCHES.
5. ALL COORDINATES VALUES ARE STATE PLANE COORDINATES, ZONE VII.
6. ELEVATION VALUES ARE MEAN SEA LEVEL.
7. TIES ARE NOT TO BE USED TO RESET MONUMENTS, BUT AS REFERENCE ONLY.

REV.	DATE	DESCRIPTION	BY	APP.
2	7-13-88	Revised Control Data	REM.	
1	4-18-88	Revised Control Data	K.L.	

Information confidential: all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Los Angeles County Transportation Commission.

DESIGNED BY F.K. MACAVINTA
DRAWN BY F.K. MACAVINTA
CHECKED BY R. CORMIER
APPROVED BY F. HENSTRIDGE
DATE NOV. 19, 1985

LICENSED LAND SURVEYOR — FRED W. HENSTRIDGE — 3258 — STATE OF CALIFORNIA

LACTC **LOS ANGELES COUNTY TRANSPORTATION COMMISSION**
The Long Beach-Los Angeles Rail Transit Project

PSOMAS & ASSOCIATES — CIVIL ENGINEERS · LAND PLANNERS · LAND SURVEYORS — 180 A PALARINO AVE. COSTA MESA, CA 92626 PHONE 714 • 751-7373

SUBMITTED: FRED W. HENSTRIDGE L.S. 3258

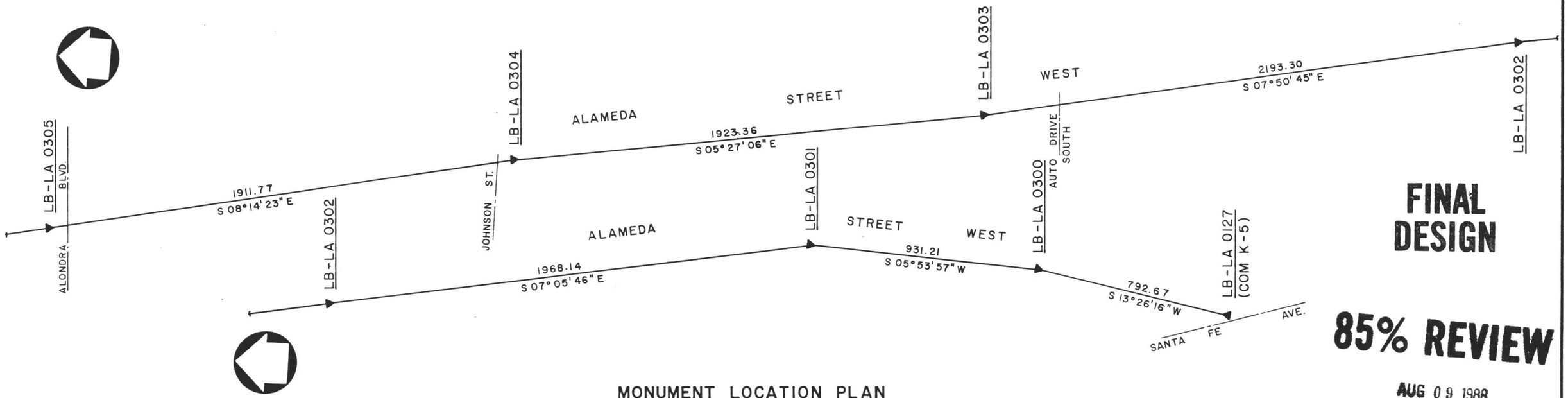
Transit Consultants of Southern California
A Joint Venture of:
- Parsons Brinckerhoff Quade & Douglas, Inc.
- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

APPROVED: _____

STOCKWELL TO DEL AMO BLVD RAILROAD RELOCATION WORK

PRIMARY SURVEY CONTROL MONUMENTATION
SHT. 2 OF 3

CONTRACT NO. ROI-TO I-C235
DRAWING NO. CS-0902
REV. | SHEET NO. 13
SCALE NOT TO SCALE



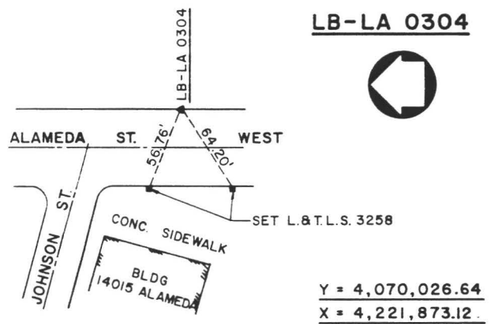
FINAL DESIGN

85% REVIEW

AUG 09 1988

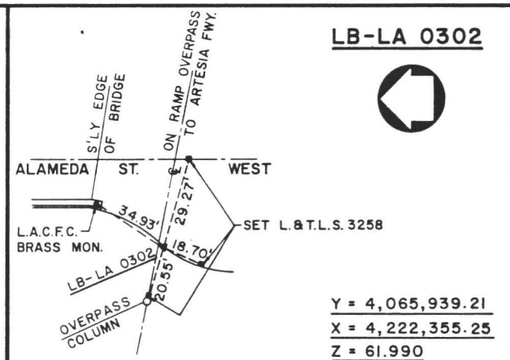
MONUMENT LOCATION PLAN

LB-LA 0304



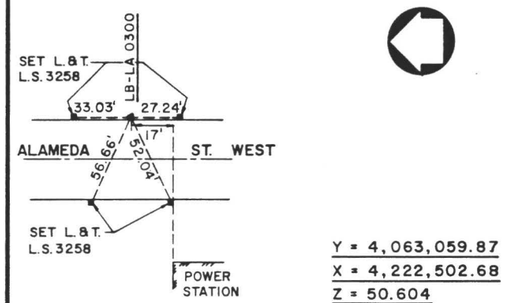
Y = 4,070,026.64
X = 4,221,873.12
Z = 61.210

LB-LA 0302



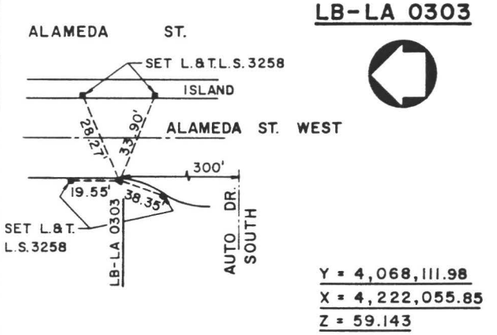
Y = 4,065,939.21
X = 4,222,355.25
Z = 61.990

LB-LA 0300



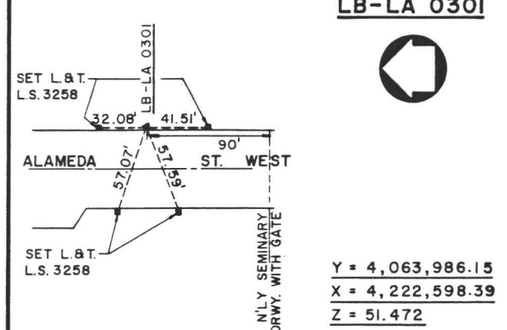
Y = 4,063,059.87
X = 4,222,502.68
Z = 50.604

LB-LA 0303



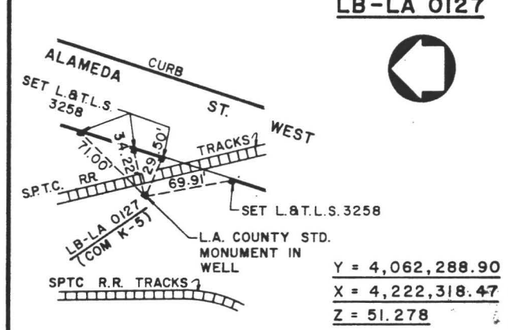
Y = 4,068,111.98
X = 4,222,055.85
Z = 59.143

LB-LA 0301



Y = 4,063,986.15
X = 4,222,598.39
Z = 51.472

LB-LA 0127



Y = 4,062,288.90
X = 4,222,318.47
Z = 51.278

LEGEND

▲ MONUMENTS ARE 2" BRASS CAPS SET IN TOP OF CURB STAMPED LACTC LS 3258 LB-LA 0---
(EXCEPTIONS ARE NOTED ON SKETCHES)

NOTES:

1. ALL DISTANCES SHOWN ON LOCATION PLAN ARE HORIZONTAL GRID DISTANCES.
2. GRID DISTANCE EQUALS GROUND LEVEL DISTANCE MULTIPLIED BY GRID FACTOR.
3. GRID FACTOR EQUALS 1.00000294
4. VERTICAL CONTROL POINT IS INDICATED ON LOCATION SKETCHES.
5. ALL COORDINATES VALUES ARE STATE PLANE COORDINATES, ZONE VII.
6. ELEVATION VALUES ARE MEAN SEA LEVEL.
7. TIES ARE NOT TO BE USED TO RESET MONUMENTS, BUT AS REFERENCE ONLY.

REV.	DATE	DESCRIPTION	BY	CHK'D	APP.
2	7-19-88	Revised Control Data	R.E.H.		
1	4-18-88	Revised Control Data	K.L.		

Information contained on all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Los Angeles County Transportation Commission.

DESIGNED BY F.K. MACAVINTA
DRAWN BY F.K. MACAVINTA
CHECKED BY R. CORMIER
APPROVED BY F. HENSTRIDGE
DATE NOV. 19, 1985

LICENSED LAND SURVEYOR — FRED W. HENSTRIDGE — 3258 — STATE OF CALIFORNIA

LACTC
LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

PSOMAS & ASSOCIATES — CIVIL ENGINEERS, LAND PLANNERS, LAND SURVEYORS — 180 A PALARINO AVE. COSTA MESA, CA 92626 — PHONE 714 • 751-7373

SUBMITTED: Fred W. Henstridge FRED W. HENSTRIDGE L.S. 3258

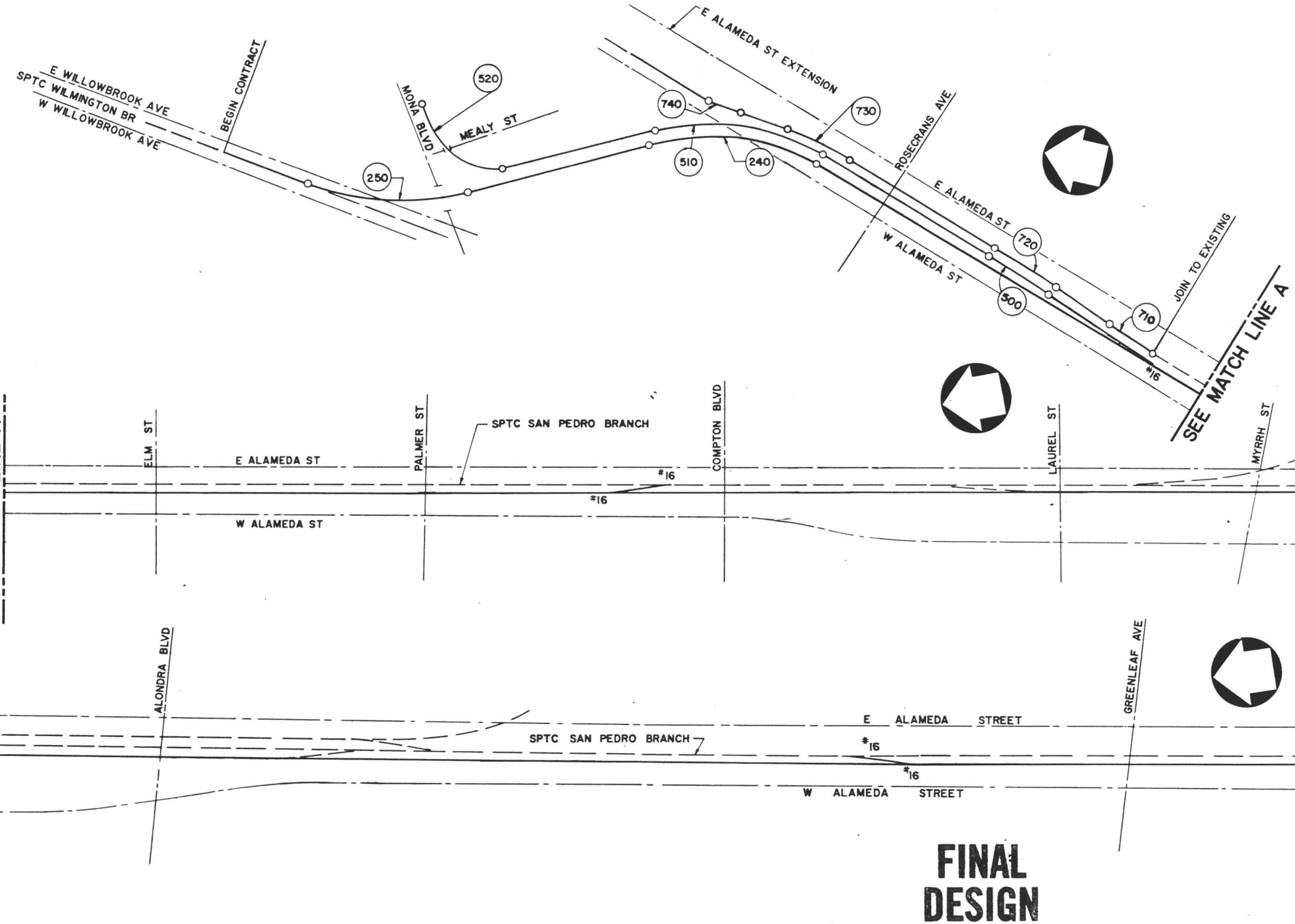
Transit Consultants of Southern California
A Joint Venture of:
- Parsons Brinckerhoff Quade & Douglas, Inc.
- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

APPROVED: _____

STOCKWELL TO DEL AMO BLVD RAILROAD RELOCATION WORK

PRIMARY SURVEY CONTROL MONUMENTATION
SHT. 3 OF 3

CONTRACT NO. ROI-TO I-C235
DRAWING NO. CS-0903
REV. | SHEET NO. 14
SCALE NOT TO SCALE



FINAL DESIGN

85% REVIEW

AUG 0 9 1988

REV.	DATE	DESCRIPTION	BY	APP.

Information confidential: all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Los Angeles County Transportation Commission.

DESIGNED BY J. CHEU
DRAWN BY R. Ordonez
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

Parsons Brinckerhoff Quade & Douglas, Inc.

SUBMITTED: _____

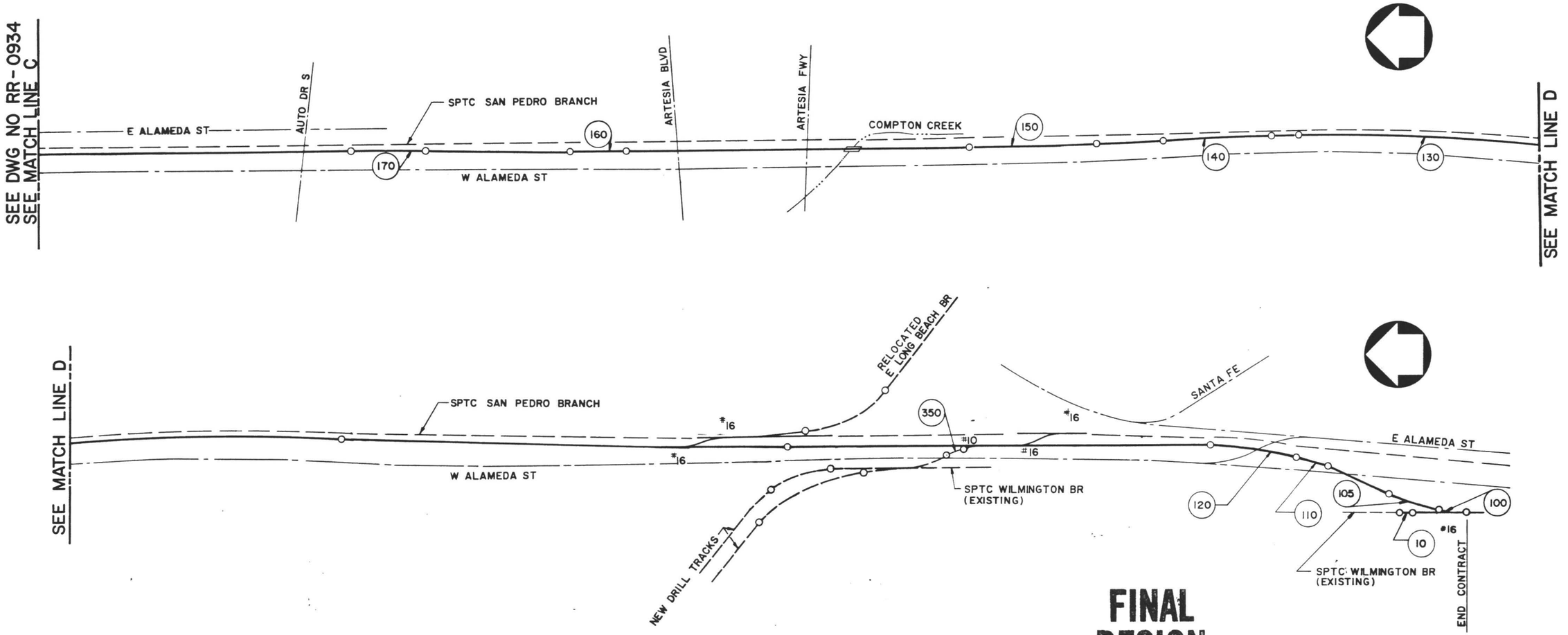
Transit Consultants of Southern California
A Joint Venture of:
- Parsons Brinckerhoff Quade & Douglas, Inc.
- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

APPROVED: _____

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK

ALIGNMENT SCHEMATIC SHT 1 OF 2

CONTRACT NO. ROI-TO 1-C235
DRAWING NO. RR-0933
REV.
SHEET NO. 15
SCALE NOT TO SCALE



FINAL DESIGN

85% REVIEW

AUG 09 1988

REV.	DATE	DESCRIPTION	BY	APP.

Information contained on all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission, shall be held confidential, and shall not be used for any purpose not provided for in agreements with the Los Angeles County Transportation Commission.

DESIGNED BY: J. CHEN
DRAWN BY: R. Ordonez
CHECKED BY:
APPROVED BY:
DATE: 4 AUG 88

85% SUBMITTAL

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

Parsons Brinckerhoff Quade & Douglas, Inc.

Transit Consultants of Southern California

A Joint Venture of:
- Parsons Brinckerhoff Quade & Douglas, Inc.
- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation
- NorthPacific Construction Management

SUBMITTED: _____
APPROVED: _____

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK

ALIGNMENT SCHEMATIC SHT 2 OF 2

CONTRACT NO. ROI-TO 1-C235
DRAWING NO. RR-0934
REV.
SHEET NO. 16
SCALE NOT TO SCALE

ALIGNMENT	POINT NO.	POINT DESCRIPTION	DISTANCE	BEARING	COORDINATES NORTH	COORDINATES EAST	STATION
RELOCATED WILMINGTON		PC CRV 10			58447.4035	21626.7256	322+51.27
BRANCH (ALAMEDA ST.)		PI CRV 10	10.53	N15°32'53"E	58457.5520	21629.5492	
↑		PT CRV 10	10.53	N 17°07'41"E	58467.6189	21632.6516	322+72.34
		PC CRV 100			58020.1995	21494.7649	318+03.96
		PI CRV 100	33.40	N 17°07'42"E	58052.0545	21504.5832	
		PT CRV 100	33.40	N 19°07'42"E	58083.5515	21515.5074	318+70.62
		PS 1 #16 TO	100.00	N 19°07'42"E	58178.0303	21548.2758	319+70.62
		PI 1 #16 TO	54.01	N 19°07'42"E	58229.0586	21565.9741	320+24.64
		PC CRV 105	100.00	N 19°07'42"E	58323.5374	21598.7424	321+24.64
		PI CRV 105	115.42	N 19°07'42"E	58432.5890	21636.5651	
		PT CRV 105	115.42	N 29°56'42"E	58532.6050	21694.1811	323+54.78
		PC CRV 110	179.85	N 29°56'42"E	58688.4456	21783.9560	325+34.63
		PI CRV 110	192.27	N 29°56'42"E	58855.0498	21879.9314	
		PCC 110/120	192.27	N 14°32'27"E	59041.1623	21928.2052	329+16.84
		PI CRV 120	323.66	N 14°32'27"E	59354.4527	22009.4664	
		PT CRV 120	323.66	N 8°09'52"E	59674.8299	22055.4311	335+63.48
		PI 2 #16 TO	1252.51	N 8°09'52"E	60914.6452	22233.3059	348+15.99
		PS 2 #16 TO	54.01	N 8°09'52"E	60968.1077	22240.9761	348+70.00
		PS 3 #10 TO	110.32	N 8°09'52"E	61077.3096	22256.6432	349+80.32
		PI 3 #10 TO	31.21	N 8°09'52"E	61108.2033	22261.0755	350+11.53
	314	POT	962.49	N 8°09'52"E	62060.9390	22397.7670	359+74.02
	1363	POT	131.40	N 8°07'19"E	62191.0210	22416.3310	361+05.42
		PI 4 #16 TO	580.52	N 8°07'19"E	62765.7182	22498.3471	366+85.94
		PS 4 #16 TO	54.01	N 8°07'19"E	62819.1864	22505.9777	367+39.95
		PC CRV 130	523.58	N 8°07'19"E	63337.2049	22579.9993	
		PI CRV 130	788.10	N 8°07'36"E	64117.3890	22691.4050	372+63.23
		PT CRV 130	788.10	N 7°32'13"W	64898.6780	22588.0322	388+29.59
		PC CRV 140	93.65	N 7°32'13"W	64991.5158	22575.7488	389+23.24
		PI CRV 140	131.17	N 7°32'13"W	65121.5570	22558.5430	
		PT CRV 140	131.17	N 8°50'56"W	65251.1702	22538.3649	391+85.58
		PC CRV 150	264.54	N 8°50'56"W	65512.5648	22497.6711	394+50.12
		PI CRV 150	136.28	N 8°50'56"W	65647.2270	22476.7070	
		PT CRV 150	136.28	N 7°29'10"W	65782.3497	22458.9514	397+22.68
		PC CRV 160	965.61	N 7°29'10"W	66739.7324	22333.1482	406+88.29
		PI CRV 160	98.10	N 7°29'10"W	66836.9990	22320.3670	
↓		PT CRV 160	98.10	N 6°30'18"W	66934.4702	22309.2530	408+84.49
RELOCATED WILMINGTON		PC CRV 170	444.29	N 6°30'18"W	67375.9021	22258.9195	413+28.78
BRANCH (ALAMEDA ST.)			102.34	N 6°30'18"W			

ALIGNMENT	POINT NO.	POINT DESCRIPTION	DISTANCE	BEARING	COORDINATES NORTH	COORDINATES EAST	STATION
RELOCATED WILMINGTON		PI CRV 170			67477.5870	22247.3250	
BRANCH (ALAMEDA ST.)		PT CRV 170	102.34	N 7°31'42"W	67579.0486	22233.9162	415+33.46
↑	1285	POT	247.66	N 7°31'42"W	67824.5700	22201.4690	417+81.12
	1256	POT	1398.09	N 7°30'35"W	69210.6680	22018.7460	431+79.21
		PS 6 #16 TO	70.79	N 7°29'55"W	69280.8526	22009.5078	432+50.00
		PI 6 #16 TO	54.01	N 7°29'55"W	69334.4007	22002.4593	433+04.04
		POT	1068.10	N 7°29'55"W	70393.4000	21863.0660	443+72.14
		POT	3792.99	N 7°29'02"W	74154.0830	21369.0380	481+65.14
	1083	POT	417.51	N 7°29'02"W	74568.0930	21314.6570	485+83.65
		PI 7 #16 TO	262.34	N 7°30'08"W	74828.1333	21280.4047	489+45.99
		PS 7 #16 TO	54.01	N 7°30'08"W	74881.6810	21273.3529	489+90.00
		PS 8 #16 TO	1575.69	N 7°30'08"W	76443.8828	21067.6235	505+65.69
↓		PI 8 #16 TO	54.01	N 7°30'08"W	76497.4304	21060.5717	506+19.70
RELOCATED WILMINGTON	3	POT	580.30	N 7°30'08"W	77072.7629	20984.8050	512+00.00
BRANCH (ALAMEDA ST.)	3	POT	0.00	N 7°30'08"W	77072.7629	20984.8050	589+96.21
RELOCATED WILMINGTON		ST CRV 240	135.60	N 7°30'15"W	77207.2002	20967.0960	588+60.61
BRANCH (MEALY ST.)		SPIRAL PI	113.42	N 7°30'16"W	77319.6458	20952.2834	
↑		CS CRV 240	56.74	N 14°18'11"W	77374.6297	20938.2650	586+90.61
		PI CRV 240	404.70	N 14°18'11"W	77766.7850	20838.2836	
		SC CRV 240	404.70	N 73°13'56"W	77883.5418	20450.7864	579+53.99
		SPIRAL PI	58.74	N 73°13'56"W	77899.9116	20396.4562	
		TS CRV 240	113.42	N 80°01'51"W	77919.5460	20284.7516	577+83.99
		ST CRV 250	259.00	N 80°01'51"W	77964.3840	20029.6580	575+24.99
		SPIRAL PI	113.42	N 80°01'51"W	77984.0184	19917.9534	
		CS CRV 250	56.74	N 73°13'56"W	78000.3882	19863.6232	573+54.99
		PI CRV 250	280.73	N 73°13'56"W	78081.3769	19594.8293	
		SC CRV 250	280.73	N 30°25'57"W	78323.4306	19452.6322	568+19.99
		SPIRAL PI	56.74	N 30°25'57"W	78372.3557	19423.8908	
↓		TS CRV 250	113.42	N 23°38'02"W	78476.2601	19278.4231	566+49.99
RELOCATED WILMINGTON			105.24	N 23°38'02"W	78572.6732	19336.2333	565+44.75
BRANCH (MEALY ST.)	1	POT					

FINAL DESIGN

85% REVIEW

AUG 0 9 1988

REV.	DATE	DESCRIPTION	BY	SUB	APP

Information confidential all plans, drawings, specifications, and or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Los Angeles County Transportation Commission

DESIGNED BY A. PAK-POY
DRAWN BY A. PAK-POY
CHECKED BY J. CHEN
APPROVED BY S. OYAMA
DATE 4 AUG 88

85 % SUBMITTAL

LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach – Los Angeles Rail Transit Project

Parsons Brinckerhoff
Parsons Brinckerhoff Quade & Douglas, Inc.

SUBMITTED: _____

Transit Consultants of Southern California
A Joint Venture of: ■ Parsons Brinckerhoff Quade & Douglas, Inc. – ■ Daniel, Mann, Johnson & Mendenhall – ■ Kaiser Engineers (California) Corp. – ■ North Pacific Construction Management

APPROVED: _____

STOCKWELL TO DEL AMO BLVD RAILROAD RELOCATION WORK

ALIGNMENT DATA

SHEET 1 OF 2

CONTRACT NO. R01-T01-C235
DRAWING NO. RR-0936
REV. | SHEET NO. 17
SCALE NOT TO SCALE

ALIGNMENT	POINT NO.	POINT DESCRIPTION	DISTANCE	BEARING	COORDINATES NORTH	COORDINATES EAST	STATION
RELOCATED OWENS CORNING		PS 8 #16 TO			76534.1031	21055.7377	505+65.69
SPUR TRACK		PI 8 #16 TO	54.01	N 7°30'20"W	76587.6512	21048.6857	506+19.70
		PC CRV 500	150.89	N 3°55'21"W	76738.1869	21038.3635	507+70.62
		PI CRV 500	89.60	N 3°55'21"W	76827.5770	21032.2340	
		PT CRV 500	89.60	N 7°30'20"W	76916.4094	21020.5305	509+49.70
	6	POT	250.30	N 7°30'20"W	77164.5650	20987.8363	512+00.00
	6	POT	0.0	N 7°30'20"W	77164.5650	20987.8363	589+96.21
		PC CRV 510	129.95	N 7°30'20"W	77293.4058	20970.8617	
		PI CRV 510	505.02	N 7°30'20"W	77794.1002	20904.8958	588+66.26
		PT CRV 510	505.02	N 76°38'09"W	77910.8316	20413.5506	586+87.12
		PT CRV 520	283.4967	N 76°38'09"W	77976.3595	20137.7310	584+03.62
RELOCATED OWENS CORNING		PI CRV 520	214.00	N 76°38'09"W	78025.8236	19929.5269	
SPUR TRACK		PC CRV 520	214.00	N 3°11'10"W	78239.4920	19917.6329	580+36.37
RELOCATED SAN PEDRO		PC CRV 710	105.03	N 7°27'27"W	76332.5554	21097.5740	503+60.41
BRANCH TRACK 1		PI CRV 710	105.03	N 5°21'25"W	76436.7019	21083.9417	
		PT CRV 710	182.14	N 5°21'25"W	76541.2780	21074.1357	505+70.45
		PC CRV 720	107.39	N 5°21'25"W	76722.6176	21057.1316	507+52.59
		PI CRV 720	107.39	N 7°30'16"W	76829.5360	21047.1060	
		PT CRV 720	362.48	N 7°30'16"W	76936.0037	21033.0809	509+67.34
		PC CRV 730	100.09	N 7°30'16"W	77295.3754	20985.7407	513+29.81
		PI CRV 730	100.09	N 4°38'34"W	77394.6125	20972.6681	
		PT CRV 730	324.12	N 13°30'16"W	77491.9394	20949.2941	515+29.81
		PC CRV 740	99.70	N 76°29'44"E	77807.1012	20873.6048	518+53.94
RELOCATED SAN PEDRO		PI CRV 740	99.70	N 7°31'41"W	77904.0437	20850.3231	
BRANCH TRACK 1		PT CRV 740			78002.8834	20837.2613	520+53.15

ALIGNMENT	POINT NO.	POINT DESCRIPTION	DISTANCE	BEARING	COORDINATES NORTH	COORDINATES EAST	STATION
DRILL TRACK – TRACK 5		PC CRV 350					441+98.22
		PI CRV 350	54.53				
		PT CRV 350	54.53				443+05.59
		PI 3 #10 TO	78.42				443+84.01
DRILL TRACK – TRACK 5		PS 3 #10 TO	30.81				444+14.82

FINAL DESIGN

85% REVIEW

AUG 09 1988

REV.	DATE	DESCRIPTION	BY	SUB	APP

Information confidential all plans, drawings, specifications, and or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Los Angeles County Transportation Commission

DESIGNED BY A. PAK–POY
DRAWN BY A. PAK–POY
CHECKED BY J. CHEN
APPROVED BY SAM OYAMA
DATE 4 AUG 88

85 % SUBMITTAL

LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach – Los Angeles Rail Transit Project

Parsons Brinckerhoff
Parsons Brinckerhoff Quade & Douglas, Inc.

SUBMITTED: _____

Transit Consultants of Southern California
A Joint Venture of: Parsons Brinckerhoff Quade & Douglas, Inc. – Daniel, Mann, Johnson & Mendenhall – Kaiser Engineers (California) Corp. – North Pacific Construction Management

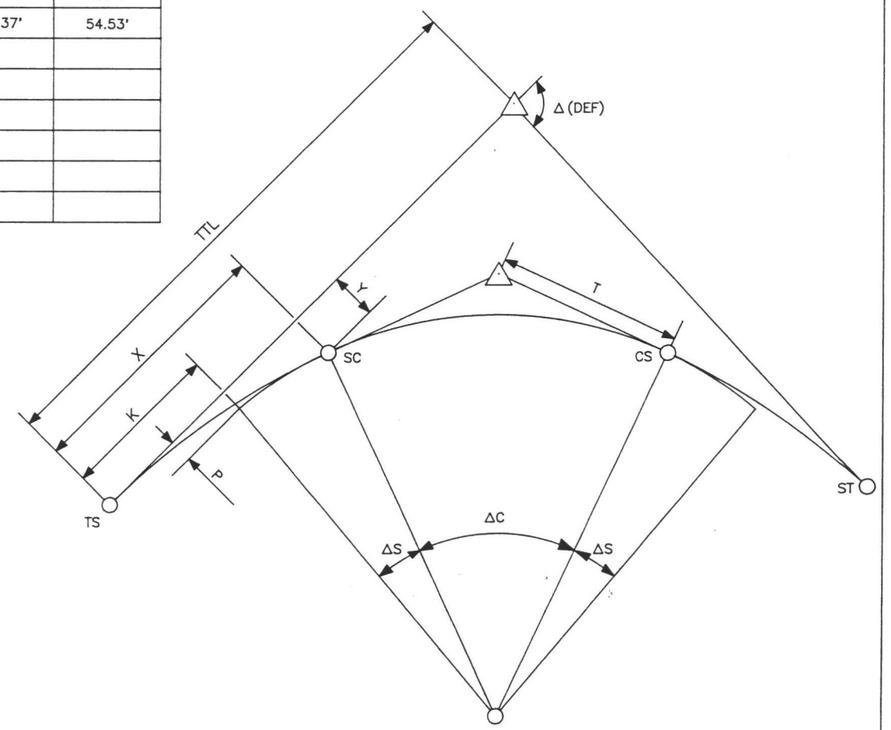
APPROVED: _____

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK

ALIGNMENT DATA SHEET 2 OF 2

CONTRACT NO. R01–T01–C235
DRAWING NO. RR–0937
REV. | SHEET NO. 18
SCALE NOT TO SCALE

ALIGNMENT	CURVE NO.	TOTAL CURVE DATA			CIRCULAR CURVE DATA						SPIRAL CURVE DATA					
		Δ(DEF)	TL	TTL	D	R	ΔC	Ea(IN)	LC	T	LS	ΔS	X	Y	P	K
EXISTING WILMINGTON BRANCH	10				7°30'00"	764.08	1°34'47"	0	21.07	10.53						
RELOCATED WILMINGTON BRANCH	100				3°00'00"	1909.91	2°00'00"	0	66.67	33.34						
↑	105				4°41'59.6"	1219.17	10°49'00"	0	230.16	115.42						
	110				4°01'49"	1421.70	15°24'14"	0	382.22	192.27						
	120				0°59'10"	5810.52	6°22'35"	0	646.65	323.66						
	130				1°00'00"	5729.60	15°39'49"	0	1566.36	788.10						
	140				0°30'00"	11459.17	1°18'42"	0	262.34	131.17						
	150				0°30'00"	11459.17	1°21'46"	0	272.56	136.28						
	160				0°30'00"	11459.17	0°58'52"	0	196.20	98.10						
	170				0°30'00"	11459.17	1°01'24"	0	204.68	102.34						
↓	240	72°31'35"	1076.62	611.69	8°00'00"	716.34	58°55'45"	4	736.62	404.70	170.00'	6°47'55"	169.76	6.72	0.84	84.96
RELOCATED WILMINGTON BRANCH	250	56°33'50"	875.00	469.94	8°00'00"	716.34	42°48'00"	4	535.00	280.73	170.00'	6°47'55"	169.76	6.72	0.84	84.96
RELOCATED OWENS CORNING SPUR TRACK	500				2°00'00"	2864.83'	3°34'54"	0	179.09'	89.57'						
RELOCATED OWENS CORNING SPUR TRACK	510				7°49'04"	733.02	69°07'46"	0	884.42	505.01						
RELOCATED OWENS CORNING SPUR TRACK	520				20°00'00"	286.84'	73°26'59"	0	367.71	214.00						
RELOCATED SAN PEDRO BRANCH	710				1°00'00"	5729.60'	2°08'40"	0	214.45'	107.24'						
↑	720				1°00'00"	5729.60'	2°08'51"	0	214.75'	107.39'						
↓	730				3°00'00"	1909.91'	6°00'00"	0	200.00'	100.09'						
RELOCATED SAN PEDRO BRANCH	740				3°00'00"	1909.91'	5°58'35"	0	199.21'	99.70'						
DOMINGUEZ JUNCTION DRILL TRACK – TRACK 5	350				15°24'41"	375.00'	16°32'50"	0	107.37'	54.53'						



FINAL DESIGN

85% REVIEW

AUG 0 9 1988

REV.	DATE	DESCRIPTION	BY	SUB	APP

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DESIGNED BY A. PAK–POY
DRAWN BY A. PAK–POY
CHECKED BY J. CHEN
APPROVED BY S. OYAMA
DATE 4 AUG 88

85 % SUBMITTAL

LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach – Los Angeles Rail Transit Project

Parsons Brinckerhoff
Parsons Brinckerhoff Quade & Douglas, Inc.

SUBMITTED: _____

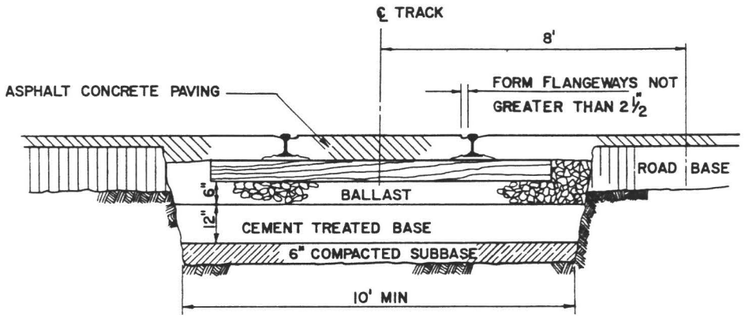
Transit Consultants of Southern California
A Joint Venture of: Parsons Brinckerhoff Quade & Douglas, Inc. – Daniel, Mann, Johnson & Mendenhall – Kaiser Engineers (California) Corp. – North Pacific Construction Management

APPROVED: _____

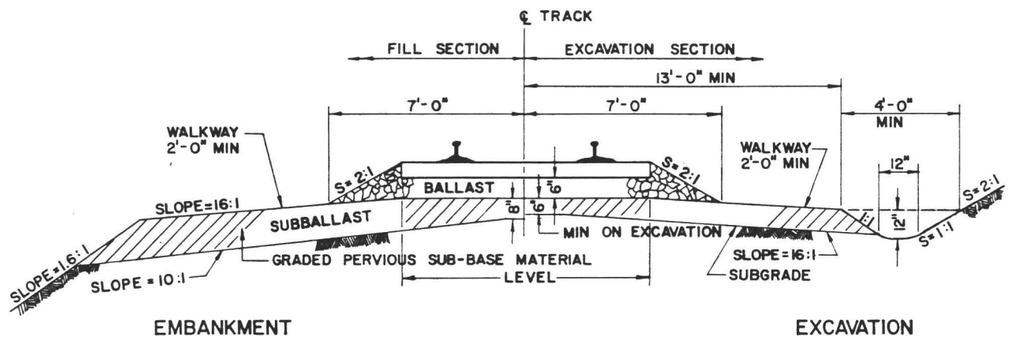
STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK

CURVE DATA SHT 1

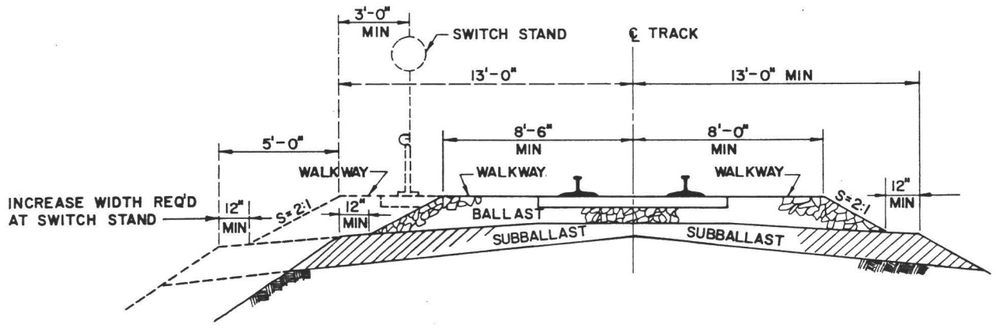
CONTRACT NO. R01–T01–C235
DRAWING NO. RR – 0939
REV. SHEET NO. 19
SCALE NOT TO SCALE



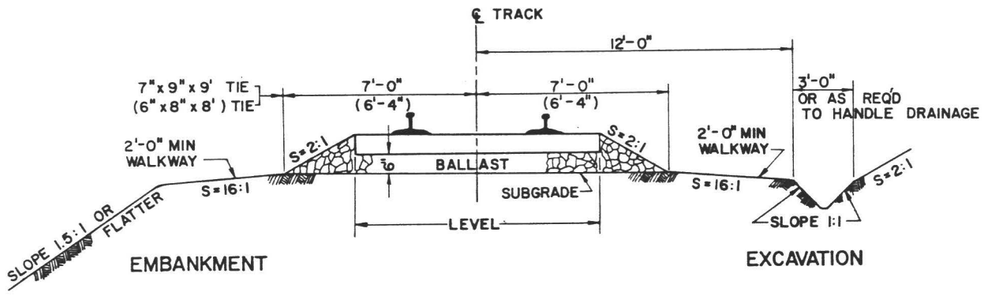
GRADE CROSSING



TANGENT TRACK



BRANCH LINES AND SIDINGS



DRILL AND SPUR

FINAL DESIGN

85% REVIEW

AUG 09 1988

REV.	DATE	DESCRIPTION	BY	APP.

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DESIGNED BY: J. Uyeno
DRAWN BY: R. Adams
CHECKED BY:
APPROVED BY:
DATE: 4 AUG 88

85% SUBMITTAL

LACTC
LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

Parsons Brinckerhoff Quade & Douglas, Inc.

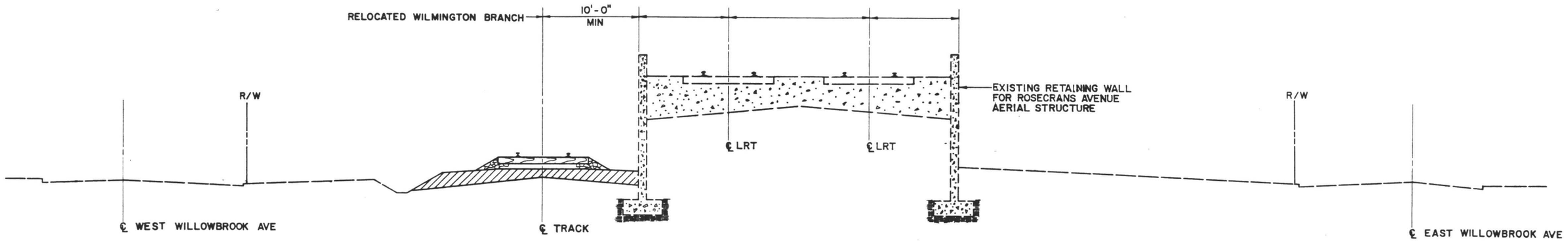
Transit Consultants of Southern California
A Joint Venture of:
- Parsons Brinckerhoff Quade & Douglas, Inc.
- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

SUBMITTED: _____
APPROVED: _____

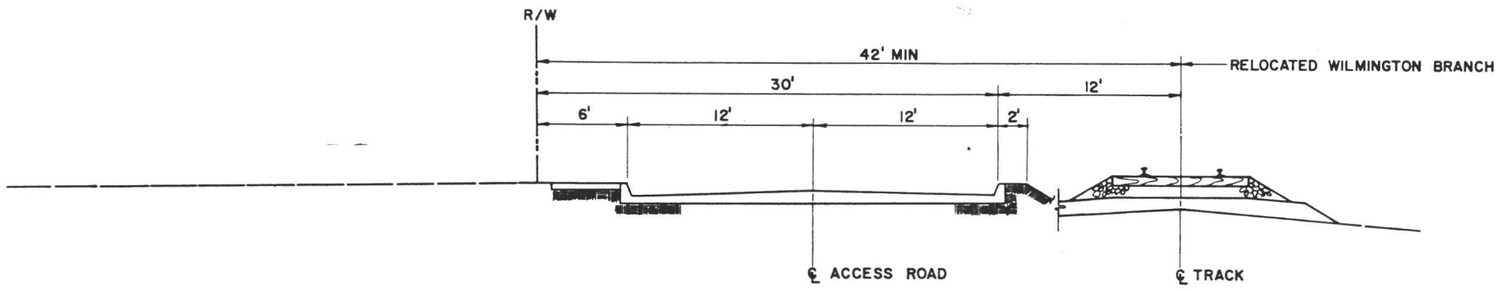
STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK

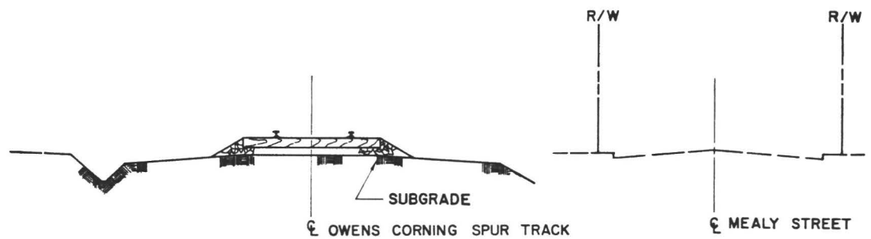
TYPICAL SECTIONS SHT 1 OF 2

CONTRACT NO. RO1-TO 1-C235
DRAWING NO. RR-0931
REV.
SHEET NO. 20
SCALE NOT TO SCALE



ALONG WILLOWBROOK AVENUE



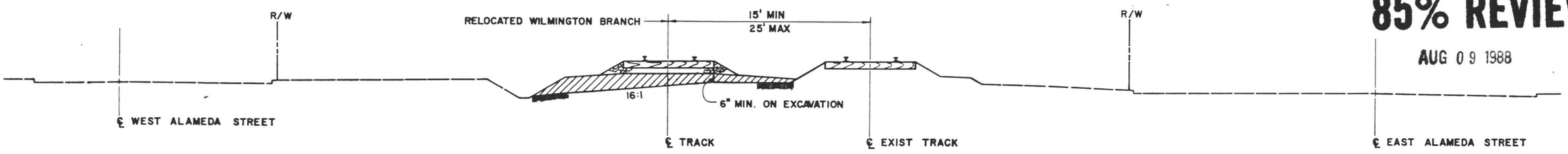


ALONG MEALY STREET

FINAL DESIGN

85% REVIEW

AUG 0 9 1988



ALONG ALAMEDA STREET

REV.	DATE	DESCRIPTION	BY	APP.

Information confidential: all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Los Angeles County Transportation Commission.

DESIGNED BY: S. Ogawa
DRAWN BY: R. Ordaz
CHECKED BY:
APPROVED BY:
DATE: 4 AUG 88

85 % SUBMITTAL

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

Parsons Brinckerhoff Quade & Douglas, Inc.

SUBMITTED: _____

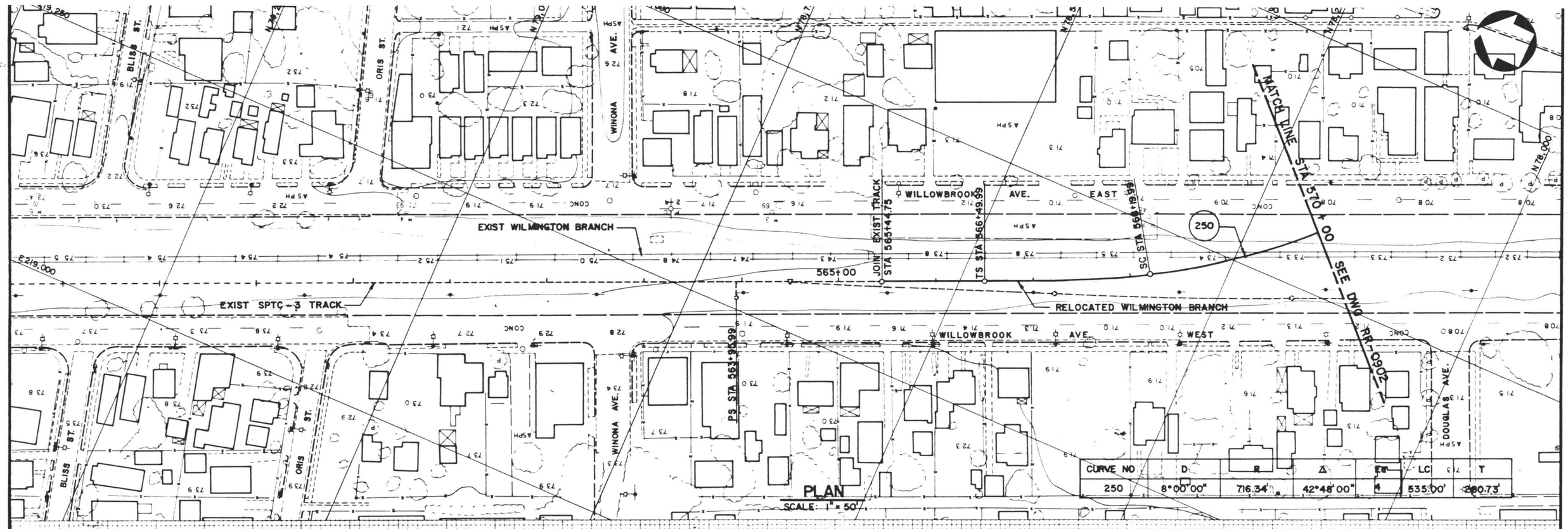
Transit Consultants of Southern California
A Joint Venture of:
- Parsons Brinckerhoff Quade & Douglas, Inc.
- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

APPROVED: _____

STOCKWELL TO DEL AMO BLVD RAILROAD RELOCATION WORK

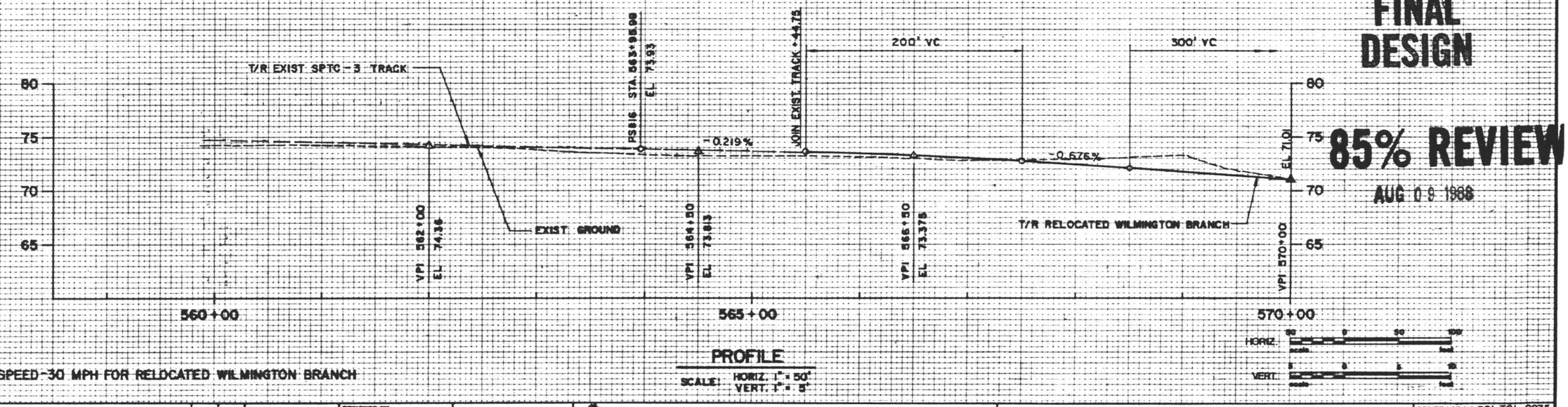
TYPICAL SECTIONS SHT 2 OF 2

CONTRACT NO. ROI-TO 1-C235
DRAWING NO. RR - 0932
REV.
SHEET NO. 21
SCALE NOT TO SCALE



PLAN
SCALE: 1" = 50'

CURVE NO	D	R	Δ	EC	LC	T
250	8°00'00"	716.34'	42°48'00"	4	535.00'	280.73'



PROFILE
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

DESIGN SPEED-30 MPH FOR RELOCATED WILMINGTON BRANCH

FINAL DESIGN

85% REVIEW

AUG 0 9 1988

REV.	DATE	DESCRIPTION	BY	APP.

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DESIGNED BY J. Crew
DRAWN BY R. Cardenas
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

Parsons Brinckerhoff Quade & Douglas, Inc.

SUBMITTED: _____

Transit Consultants of Southern California
A Joint Venture of: Parsons Brinckerhoff Quade & Douglas, Inc.; Daniel, Mann, Johnson & Mendenhall; Kaiser Engineers (California) Corporation; North Pacific Construction Management

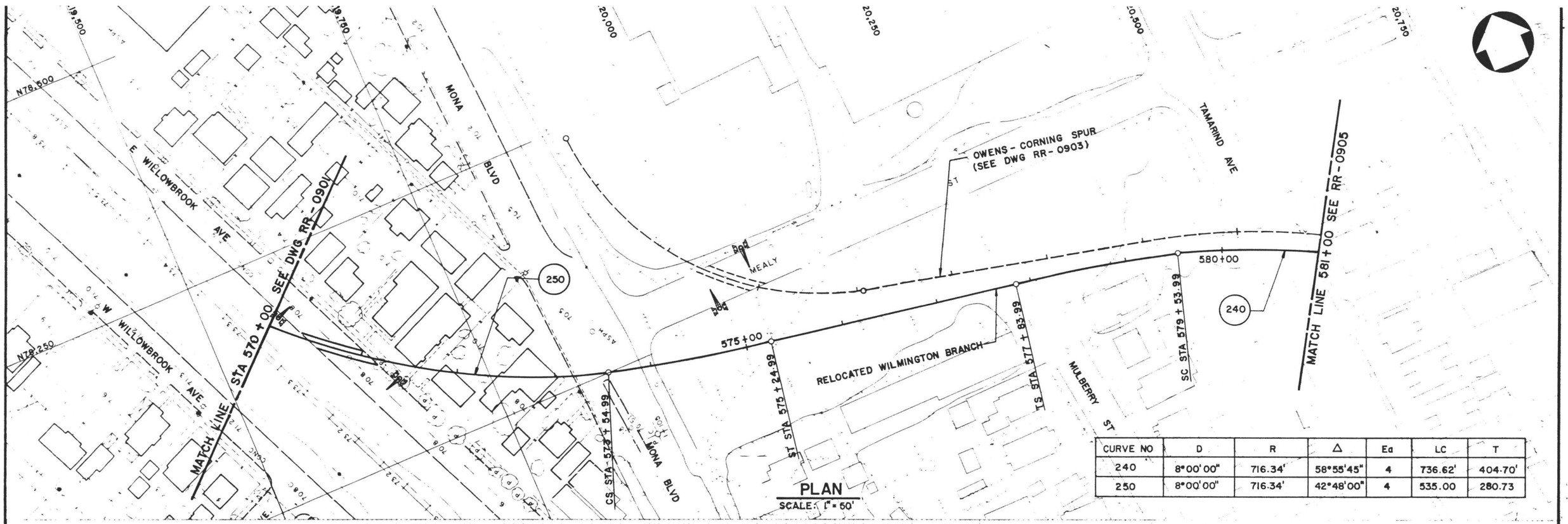
APPROVED: _____

STOCKWELL TO DEL AMO BLVD RAILROAD RELOCATION WORK

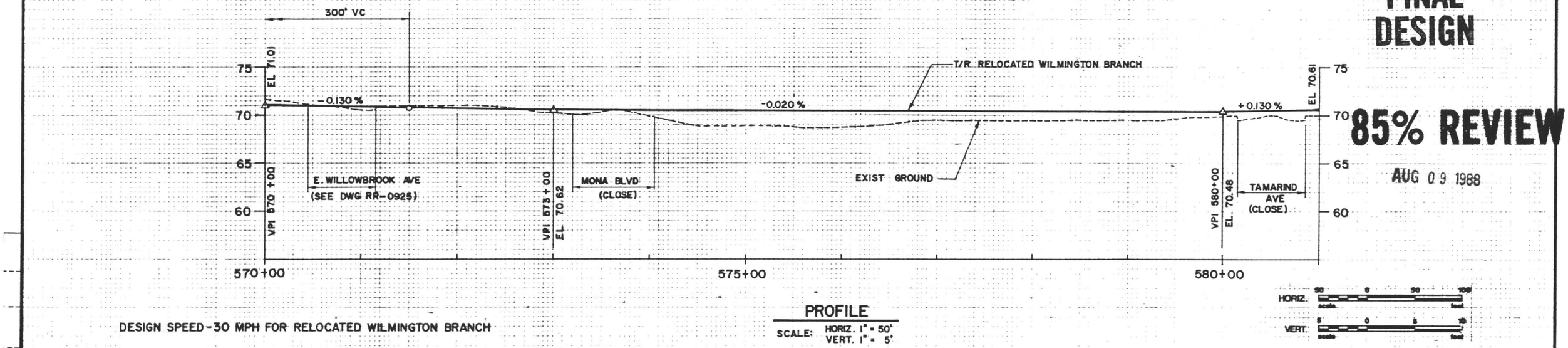
STA 560+00 TO STA 570+00

PLAN & PROFILE SHT 1 OF 21

CONTRACT NO. RO1-T01-C235
DRAWING NO. RR-0901
REV.
SHEET NO. 22
SCALE AS NOTED



CURVE NO	D	R	Δ	Ea	LC	T
240	8°00'00"	716.34'	58°55'45"	4	736.62'	404.70'
250	8°00'00"	716.34'	42°48'00"	4	535.00	280.73



PROFILE
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

DESIGN SPEED-30 MPH FOR RELOCATED WILMINGTON BRANCH

FINAL DESIGN

85% REVIEW

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DESIGNED BY J. Chen
DRAWN BY R. Ordonez
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

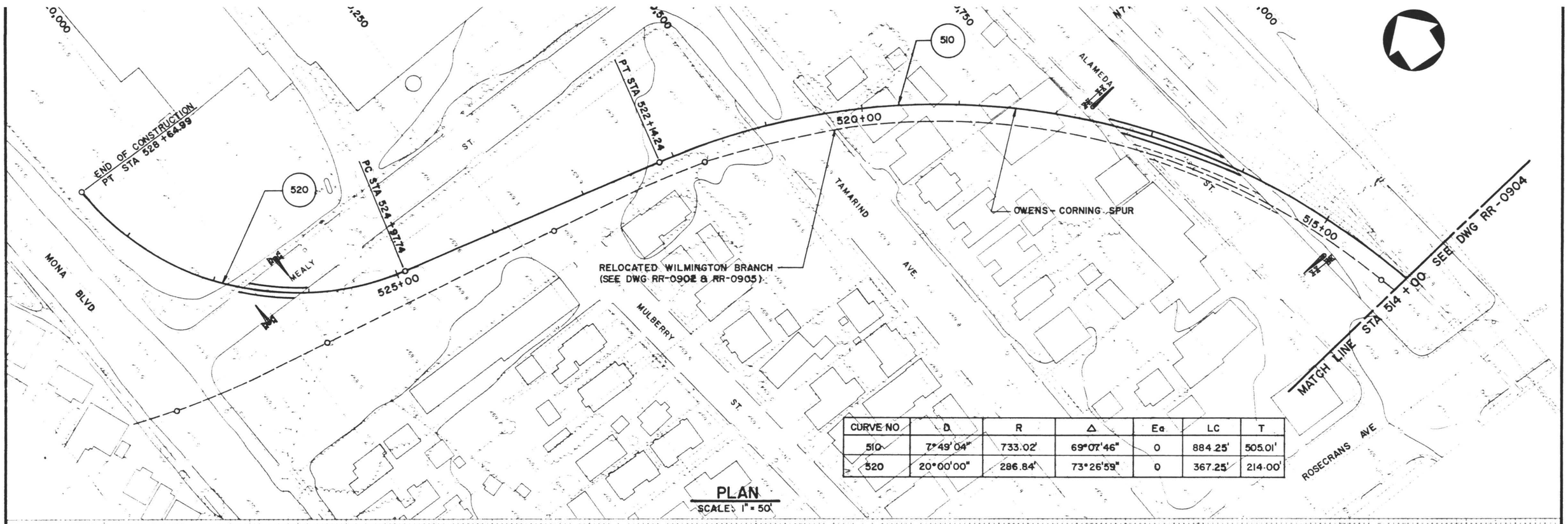
Parsons Brinckerhoff Quade & Douglas, Inc.

Transit Consultants of Southern California
A Joint Venture of:
- Parsons Brinckerhoff Quade & Douglas, Inc.
- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

SUBMITTED: _____ APPROVED: _____

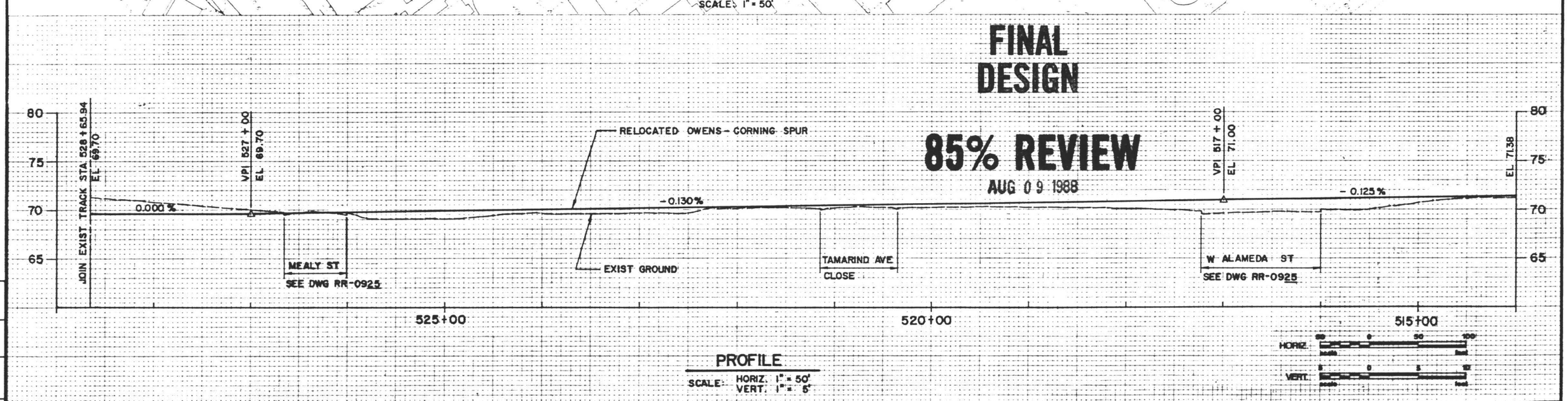
STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
STA 570+00 TO STA 581+00
PLAN & PROFILE SHT 2 OF 21

CONTRACT NO. RO1-TO 1-C235
DRAWING NO. RR-0902
REV.
SHEET NO. 23
SCALE AS NOTED



CURVE NO	D	R	Δ	Ec	LC	T
510	7°49'04"	733.02'	69°07'46"	0	884.25'	505.01'
520	20°00'00"	286.84'	73°26'59"	0	367.25'	214.00'

PLAN
SCALE: 1" = 50'



PROFILE
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

FINAL DESIGN

85% REVIEW
AUG 09 1988

REV.	DATE	DESCRIPTION	BY	APP.

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DESIGNED BY J. CHEN
DRAWN BY R. Ordonez
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

Parsons Brinckerhoff Quade & Douglas, Inc.

SUBMITTED: _____

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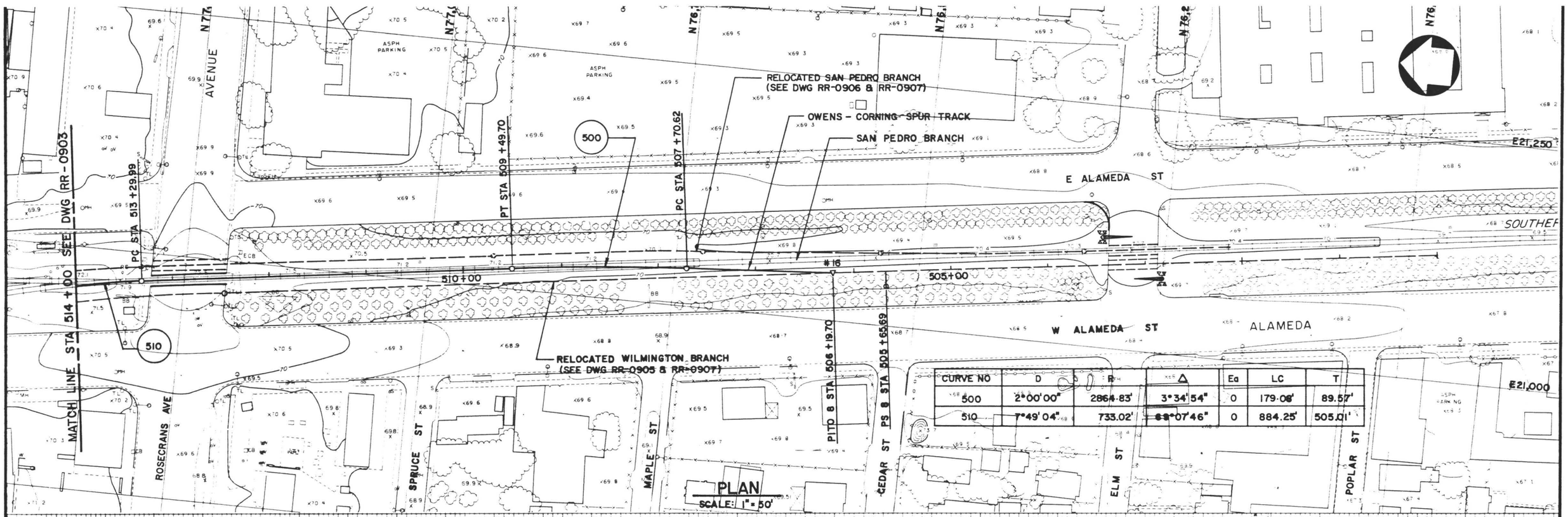
- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

APPROVED: _____

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
OWENS-CORNING SPUR
PLAN & PROFILE SHT 3 OF 21

CONTRACT NO. ROI-T01-C235
DRAWING NO. RR-0903
REV.
SHEET NO. 24
SCALE AS NOTED

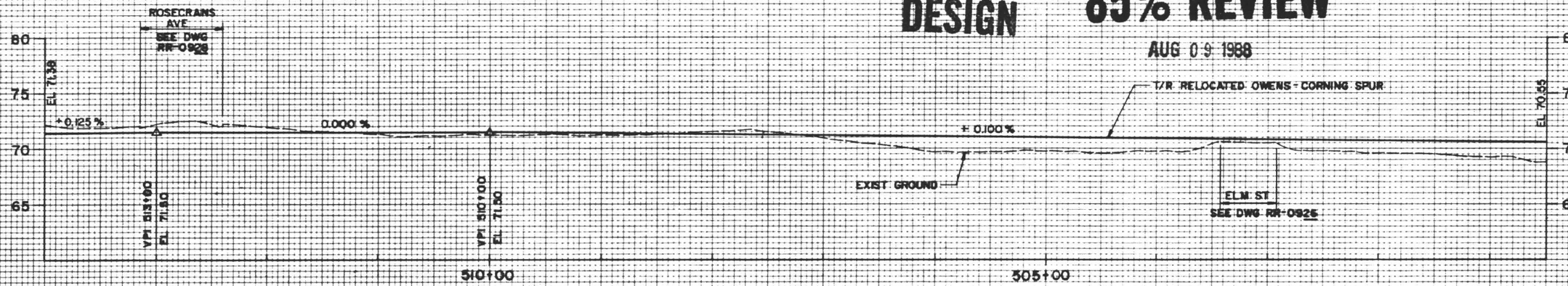


CURVE NO	D	R	Δ	Eq	LC	T
500	2°00'00"	2864.83'	3°34'54"	0	179.08'	89.57'
510	7°49'04"	733.02'	69°07'46"	0	884.25'	505.01'

PLAN
SCALE: 1" = 50'

FINAL DESIGN 85% REVIEW

AUG 09 1988



PROFILE
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

REV.	DATE	DESCRIPTION	BY	APP.

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DRAWN BY
CHECKED BY
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- North Pacific Construction Management

APPROVED: _____

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
OWENS-CORNING SPUR
PLAN & PROFILE SHT 4 OF 21

CONTRACT NO. ROI-TOI-C235
DRAWING NO. RR-0904
REV.
SHEET NO. 25
SCALE AS NOTED

RELOCATED SAN PEDRO BRANCH (SEE DWG RR-0906)

EXIST SAN PEDRO BRANCH

RELOCATED OWENS-CORNING SPUR (SEE DWG RR-0903)

E 20,750

E 20,500

585+00

240

MATCH LINE 581+00 SEE DWG RR-0902

TAMARIND AVE

C℄ STA 586+90.61

ST STA 588+60.61

NB 589+05.21 AHD

SB 512+00 BK

ROSECRANS AVE

E ALAMEDA ST

510+00

RELOCATED WILMINGTON BRANCH

W ALAMEDA ST

SPRUCE ST

508+00 SEE DWG RR-0906

MATCH LINE STA 508+00 SEE DWG RR-0906

CURVE NO	D	R	△	Eq	LC	T
240	8°00'00"	716.34'	58°55'45"	4	736.62'	404.70'

PLAN
SCALE: 1" = 50'

ROSECRANS AVE SEE DWG RR-09

IDENTICAL POINT

T/R RELOCATED WILMINGTON BRANCH

+0.130%

+0.125%

0.000%

+0.100%

W. ALAMEDA ST SEE DWG RR-0925

EXIST GROUND

EL 70.81

EL 71.30

75

70

65

60

VPI 584+00 EL 71.00

VPI 586+00 EL 71.50

589+05.21 ≤

512+00

VPI 510+00 EL 71.50

585+00

510+00

HORIZ: 50 0 50 100 scale feet

VERT: 5 0 5 10 scale feet

PROFILE
SCALE: HORIZ: 1" = 50'
VERT: 1" = 5'

DESIGN SPEED - 30 MPH FOR RELOCATED WILMINGTON BRANCH

FINAL DESIGN 85% REVIEW
AUG 09 1988

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DRAWN BY R. Ordonez
CHECKED BY
APPROVED BY
DATE 4 AUG 88

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SUBMITTED: _____

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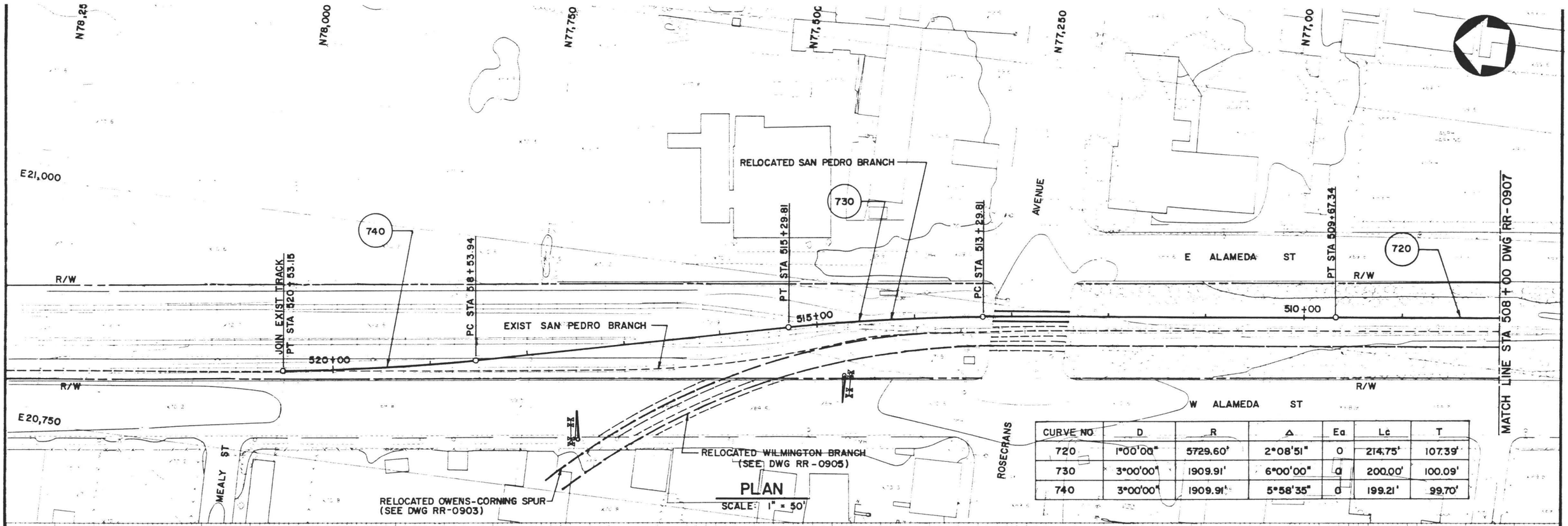
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

APPROVED: _____

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
STA 508+00 TO STA 581+00

PLAN & PROFILE SHT 5 OF 21

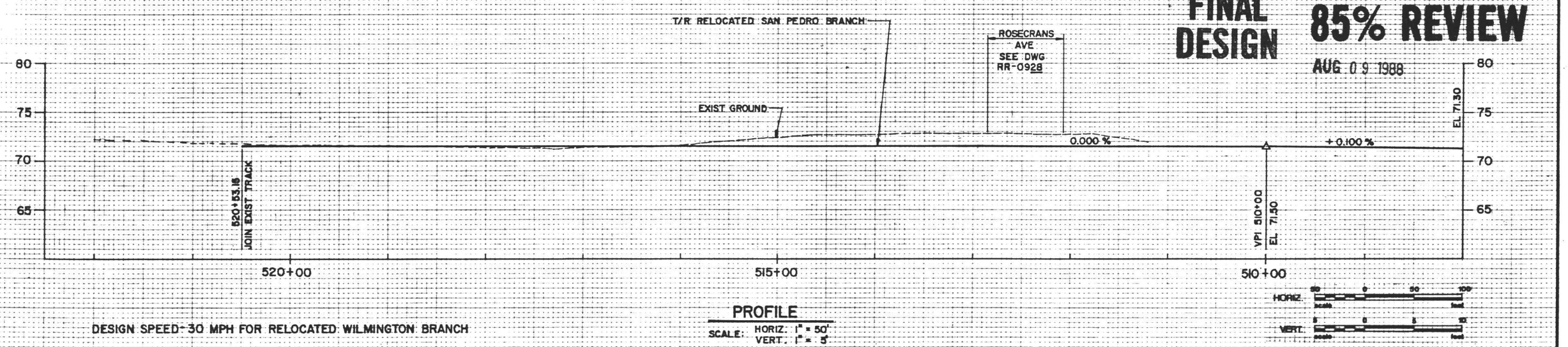
CONTRACT NO. ROI-TO 1-C235
DRAWING NO. RR - 0905
REV.
SHEET NO. 26
SCALE AS NOTED



PLAN

SCALE: 1" = 50'

CURVE NO	D	R	Δ	Ea	Lc	T
720	1°00'00"	5729.60'	2°08'51"	0	214.75'	107.39'
730	3°00'00"	1909.91'	6°00'00"	0	200.00'	100.09'
740	3°00'00"	1909.91'	5°58'35"	0	199.21'	99.70'



PROFILE

SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

DESIGN SPEED-30 MPH FOR RELOCATED WILMINGTON BRANCH

FINAL DESIGN **85% REVIEW**

AUG 09 1988

REV.	DATE	DESCRIPTION	BY	SUB	APP.

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DESIGNED BY J. CHEN
DRAWN BY R. Ordaneo
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LACTC

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

Parsons Brinckerhoff Quade & Douglas, Inc.

SUBMITTED: _____

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- Parsons Brinckerhoff Quade & Douglas, Inc.
- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

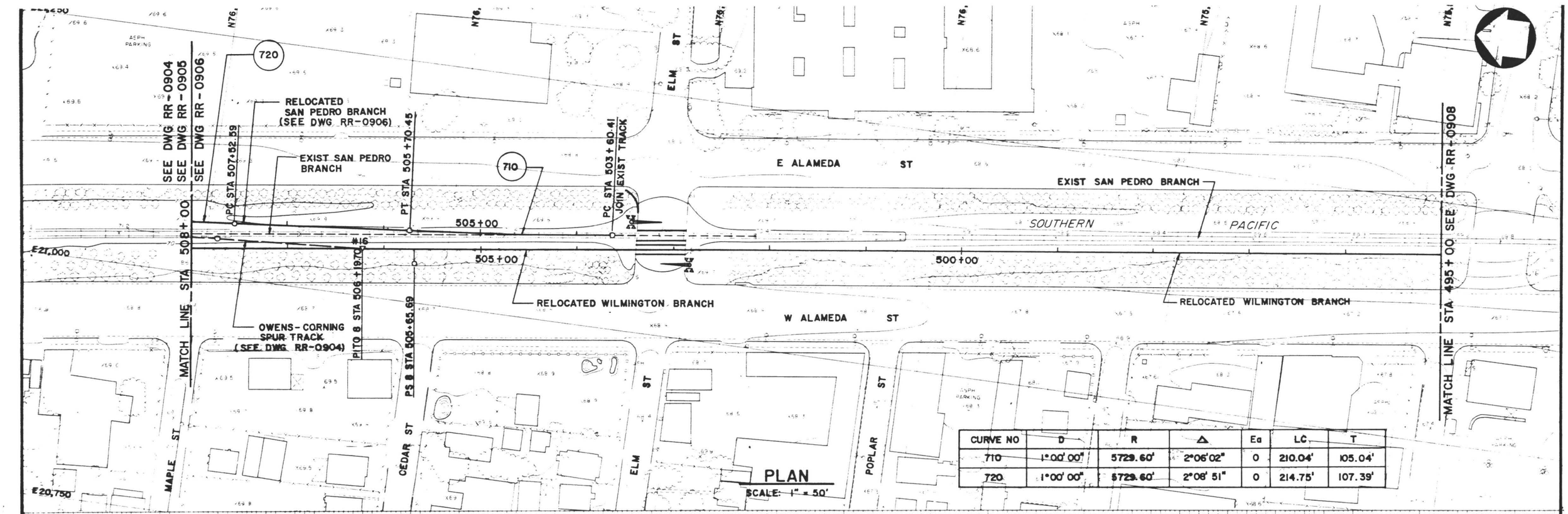
APPROVED: _____

STOCKWELL TO DEL AMO BLVD RAILROAD RELOCATION WORK

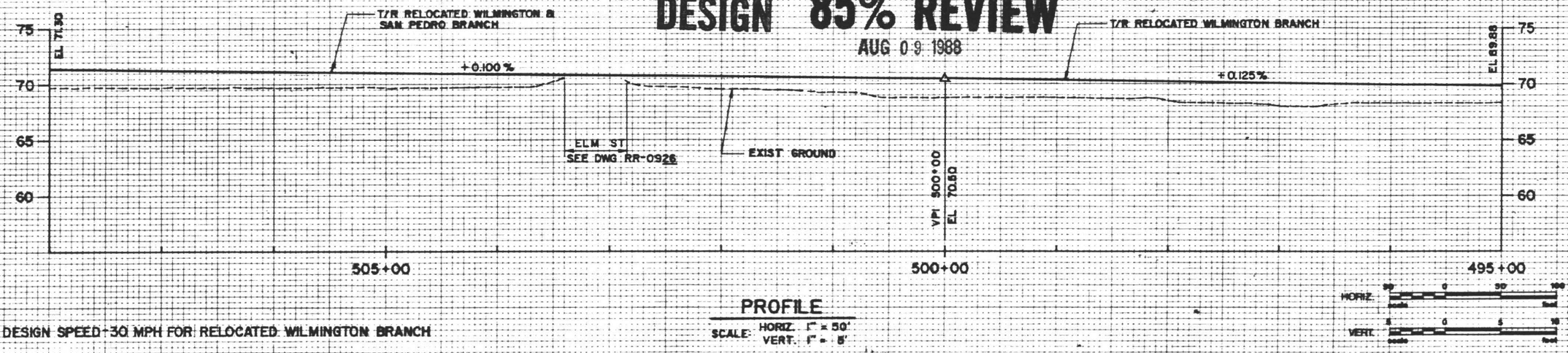
SAN PEDRO BRANCH

PLAN & PROFILE SHT 6 OF 21

CONTRACT NO. ROI-TO I-C235
DRAWING NO. RR-0906
REV.
SHEET NO. 27
SCALE AS NOTED



CURVE NO	D	R	Δ	Ea	LC	T
710	1°00'00"	5729.60'	2°06'02"	0	210.04'	105.04'
720	1°00'00"	5729.60'	2°08'51"	0	214.75'	107.39'



PROFILE

SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

DESIGN SPEED=30 MPH FOR RELOCATED WILMINGTON BRANCH

FINAL DESIGN 85% REVIEW
AUG 09 1988

REV.	DATE	DESCRIPTION	BY	APP.

Information contained on all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Los Angeles County Transportation Commission.

DESIGNED BY J. CHEN
DRAWN BY K. Anderson
CHECKED BY
APPROVED BY
DATE 4 AUG 88

LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

Parsons Brinckerhoff Quade & Douglas, Inc.

SUBMITTED: _____

Transit Consultants of Southern California
A Joint Venture of:
- Parsons Brinckerhoff Quade & Douglas, Inc.
- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

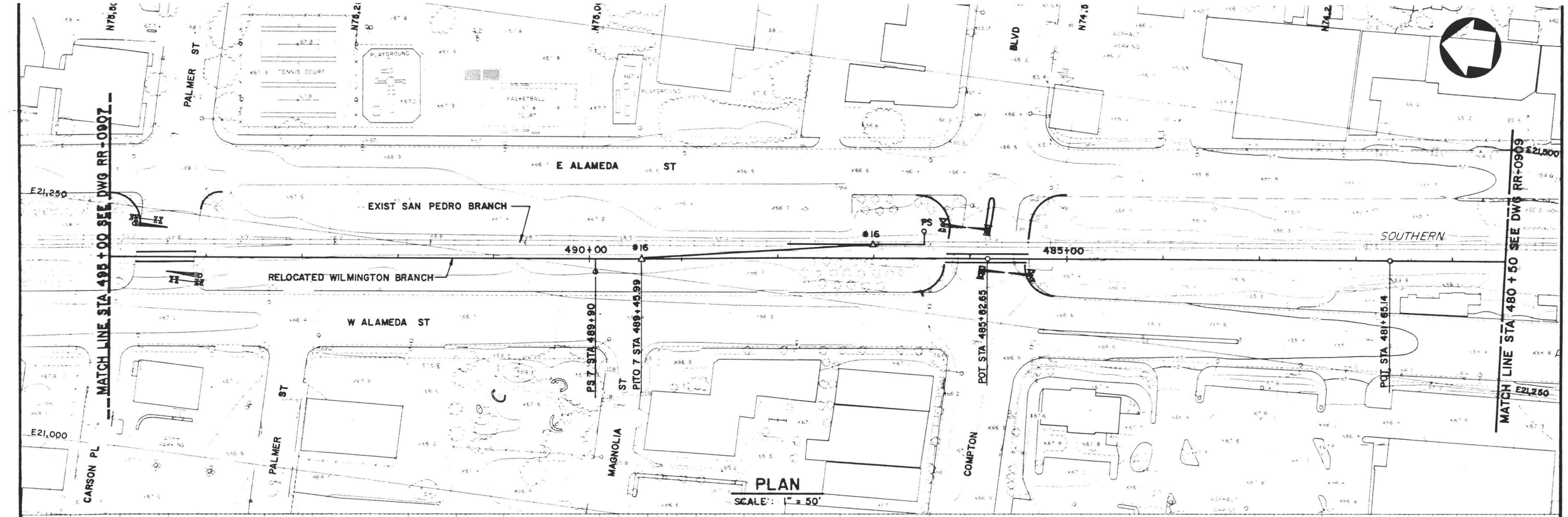
APPROVED: _____

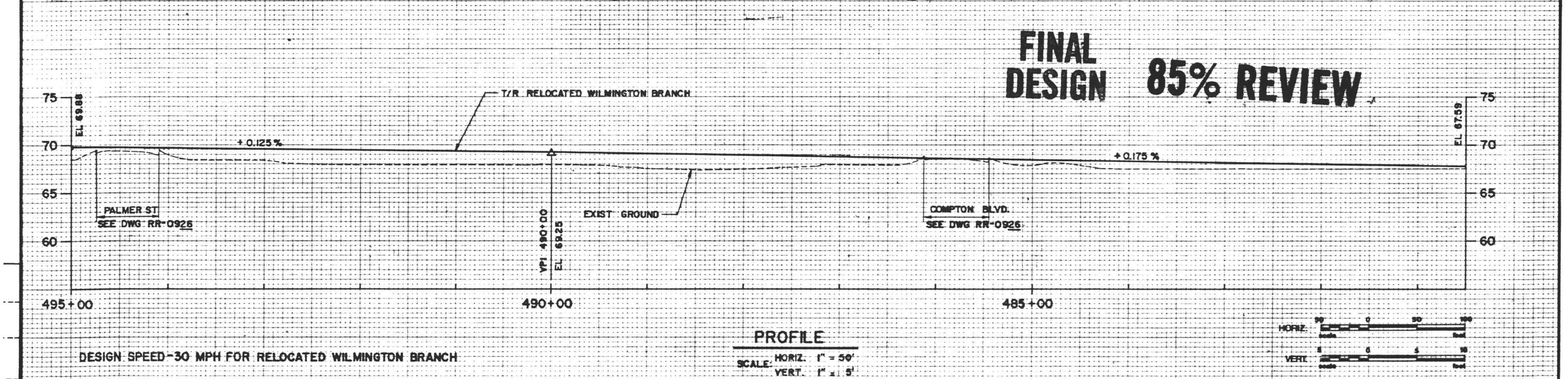
STOCKWELL TO DEL AMO BLVD RAILROAD RELOCATION WORK

STA 495+00 TO STA 508+00

PLAN & PROFILE SHT 7 OF 21

CONTRACT NO. ROI-TO I-C235
DRAWING NO. RR-0907
REV.
SHEET NO. 28
SCALE AS NOTED





DESIGN SPEED-30 MPH FOR RELOCATED WILMINGTON BRANCH

FINAL DESIGN 85% REVIEW

REV.	DATE	DESCRIPTION	BY	CHK'D	APP.

Information confidential: all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Los Angeles County Transportation Commission.

DESIGNED BY J. CHEW
DRAWN BY R. Ordaz
CHECKED BY
APPROVED BY
DATE 4 AUG 88

LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

Parsons Brinckerhoff Quade & Douglas, Inc.

Transit Consultants of Southern California
A Joint Venture of:
- Parsons Brinckerhoff Quade & Douglas, Inc.
- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

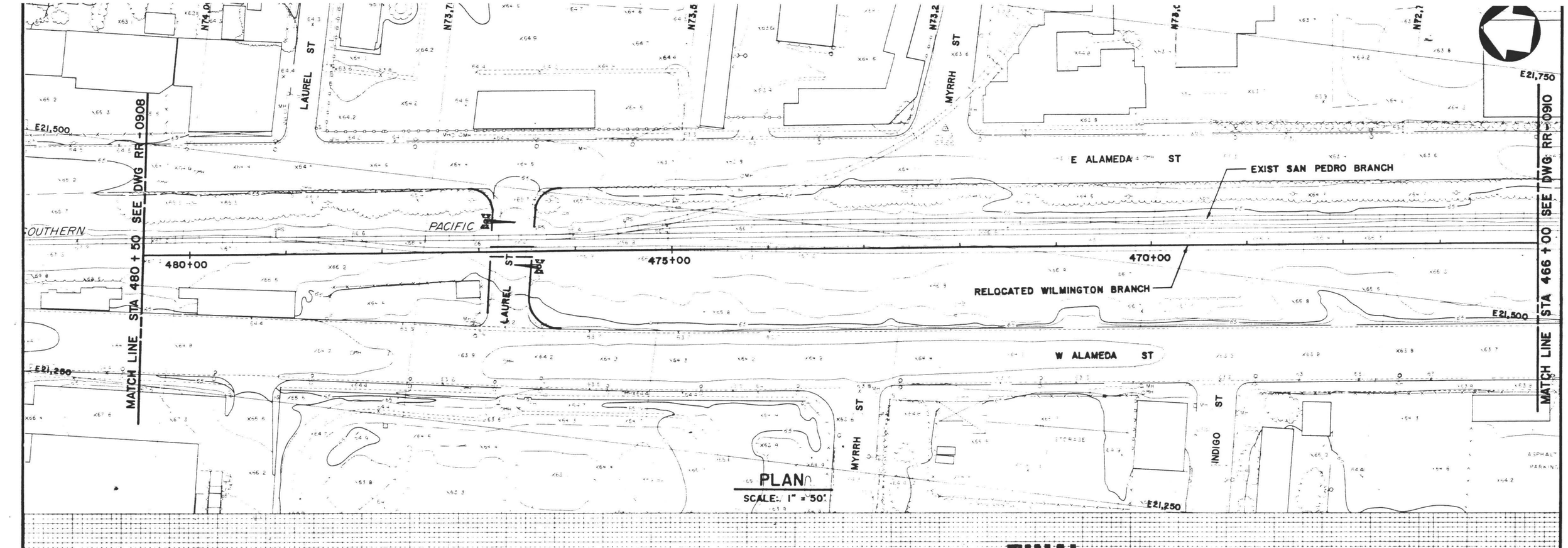
SUBMITTED: _____ APPROVED: _____

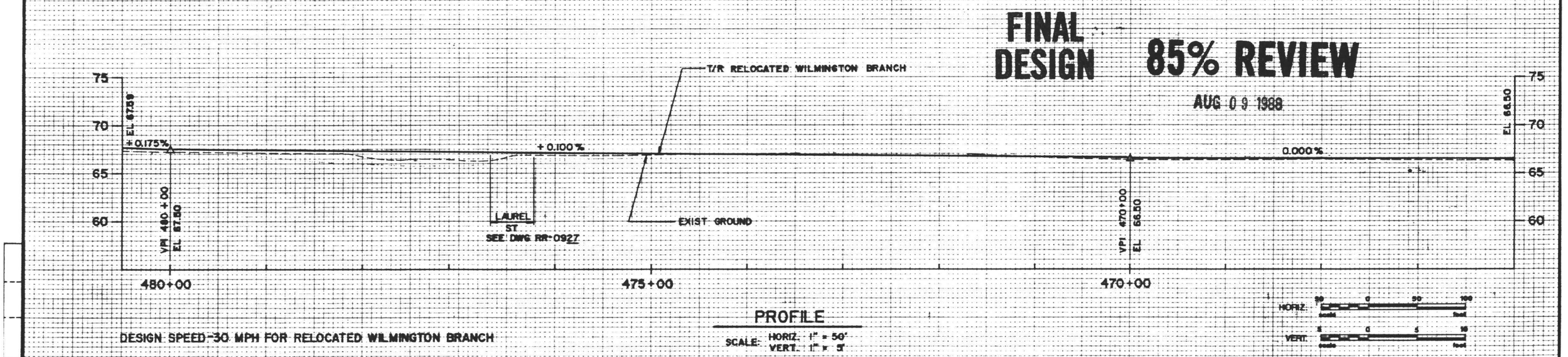
STOCKWELL TO DEL AMO BLVD RAILROAD RELOCATION WORK

STA 480+50 TO STA 495+00

PLAN & PROFILE SHT 8 OF 21

CONTRACT NO. ROI-TO I-C235
DRAWING NO. RR - 0908
REV.
SHEET NO. 29
SCALE AS NOTED





PROFILE

SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

DESIGN SPEED-30 MPH FOR RELOCATED WILMINGTON BRANCH

FINAL DESIGN

85% REVIEW

AUG 0 9 1988

REV.	DATE	DESCRIPTION	BY	APP.

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DESIGNED BY J. CHEW
DRAWN BY R. Ordonez
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

Parsons Brinckerhoff Quade & Douglas, Inc.

SUBMITTED: _____

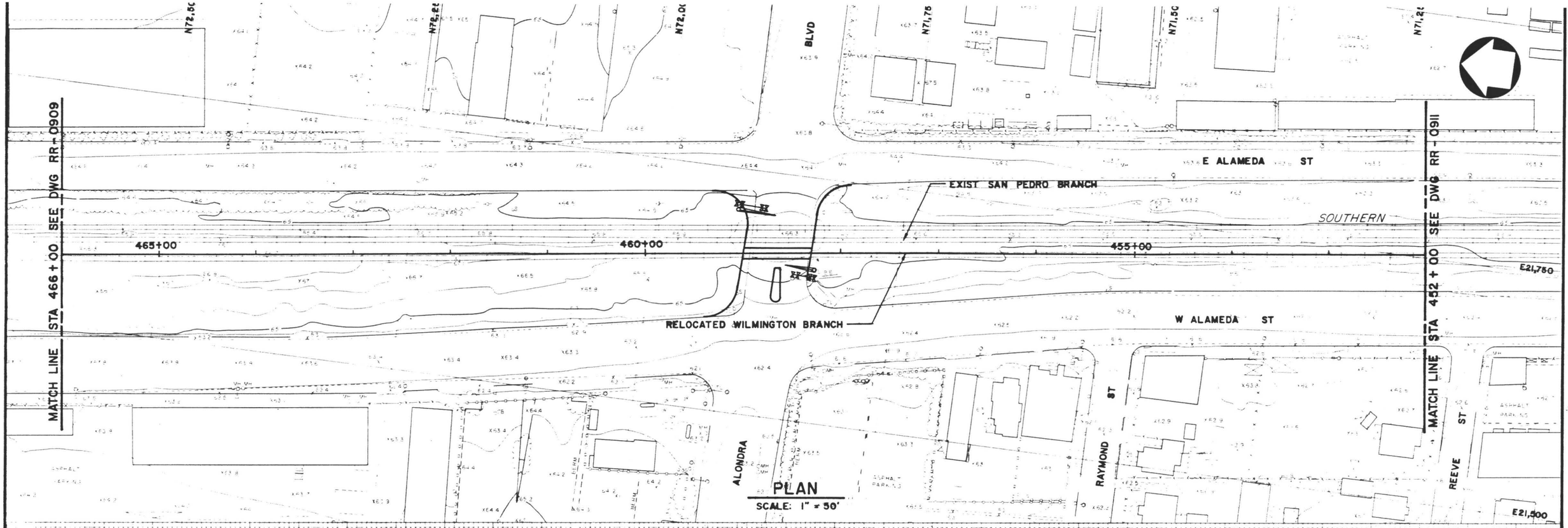
Transit Consultants of Southern California
A Joint Venture of:
- Parsons Brinckerhoff Quade & Douglas, Inc.
- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

APPROVED: _____

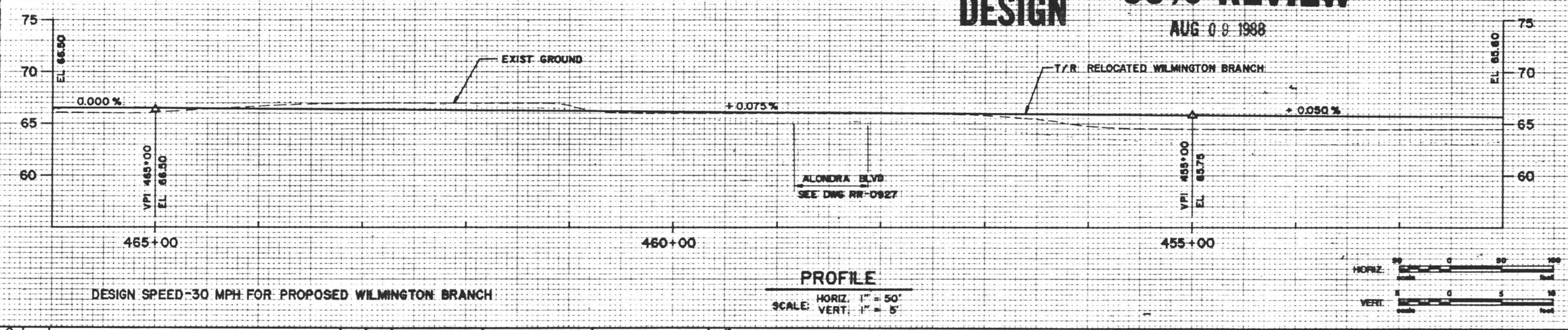
STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
STA 466+00 TO STA 480+50

PLAN & PROFILE SHT 9 OF 21

CONTRACT NO. ROI-TO 1-C235
DRAWING NO. RR-0909
REV.
SHEET NO. 30
SCALE AS NOTED



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

DESIGN SPEED-30 MPH FOR PROPOSED WILMINGTON BRANCH

FINAL DESIGN

85% REVIEW

AUG 09 1988

REV.	DATE	DESCRIPTION	BY	APP.

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DESIGNED BY J. CHEN
DRAWN BY R. Ordonez
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

Parsons Brinckerhoff Quade & Douglas, Inc.

SUBMITTED: _____

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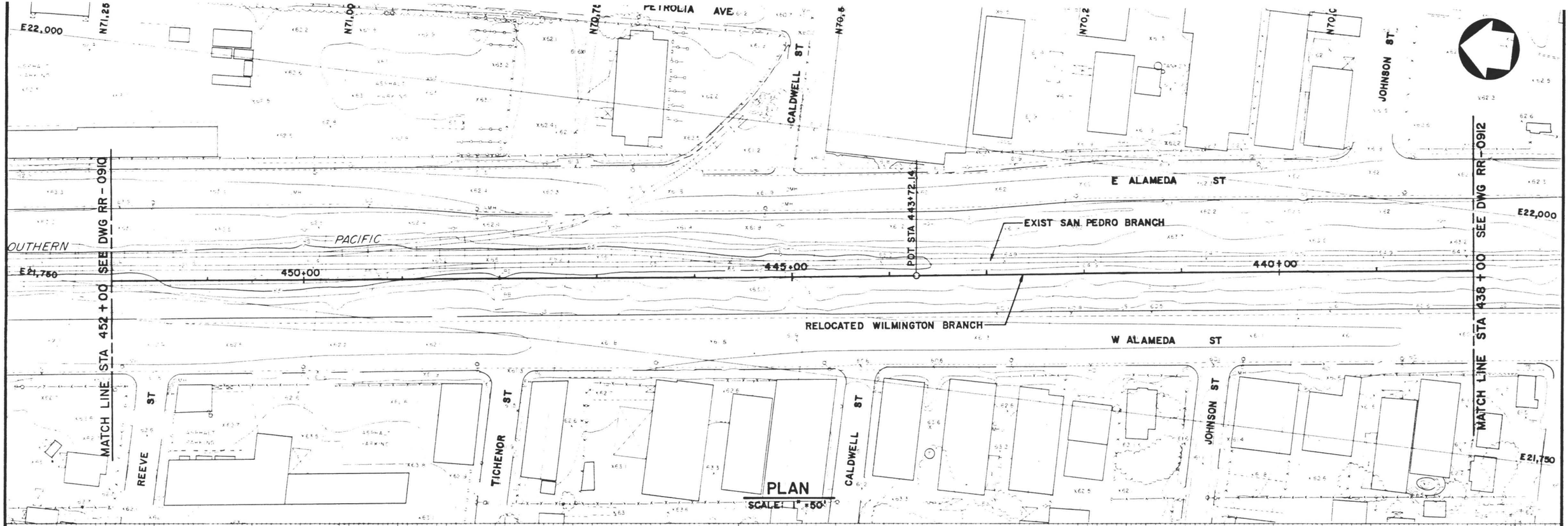
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

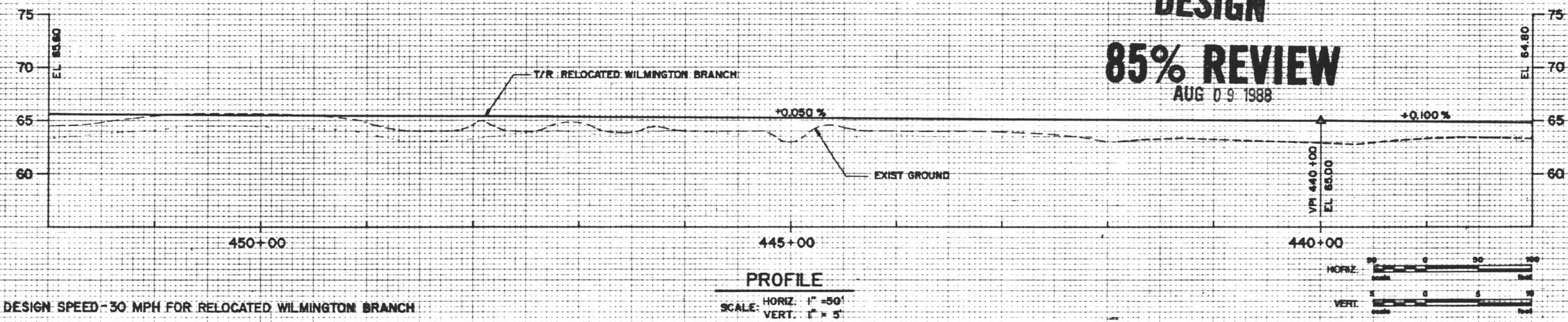
APPROVED: _____

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
STA 452+00 TO STA 466+00

PLAN & PROFILE SHT 10 OF 21

CONTRACT NO. ROI-TO 1-C235
DRAWING NO. RR - 0910
REV.
SHEET NO. 31
SCALE AS NOTED





DESIGN SPEED - 30 MPH FOR RELOCATED WILMINGTON BRANCH

FINAL DESIGN

85% REVIEW

AUG 0 9 1988

REV.	DATE	DESCRIPTION	BY	APP.

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DESIGNED BY J. CHEN
DRAWN BY R. Ordaz
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

Parsons Brinckerhoff Quade & Douglas, Inc.

SUBMITTED: _____

Transit Consultants of Southern California
A Joint Venture of:
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- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

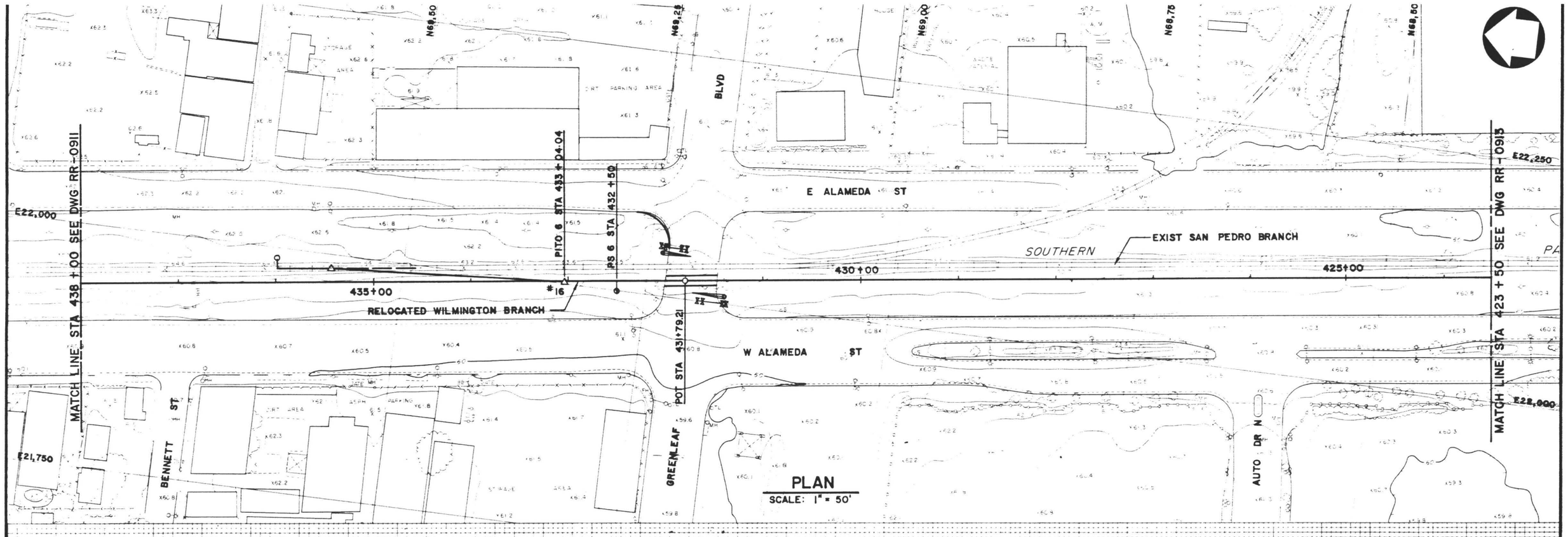
APPROVED: _____

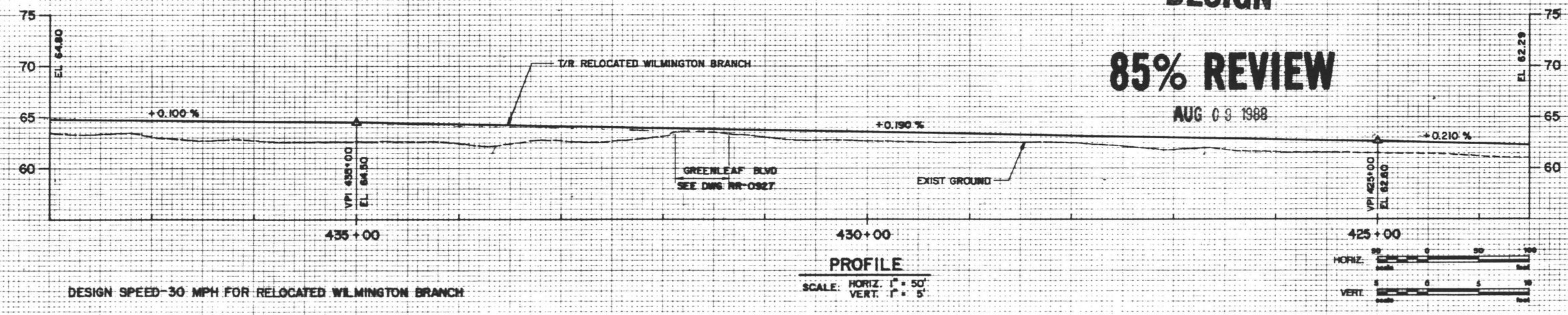
STOCKWELL TO DEL AMO BLVD RAILROAD RELOCATION WORK

STA 438+00 TO STA 452+00

PLAN & PROFILE SHT 11 OF 21

CONTRACT NO. ROI-TO 1C-235
DRAWING NO. RR - 0911
REV.
SHEET NO. 32
SCALE AS NOTED





DESIGN SPEED-30 MPH FOR RELOCATED WILMINGTON BRANCH

FINAL DESIGN

85% REVIEW

AUG 08 1988

REV.	DATE	DESCRIPTION	BY	APP.

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DESIGNED BY J. CHEN
DRAWN BY K. Ordonez
CHECKED BY
APPROVED BY
DATE 4 AUG 88

% SUBMITTAL

LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

Parsons Brinckerhoff Quade & Douglas, Inc.

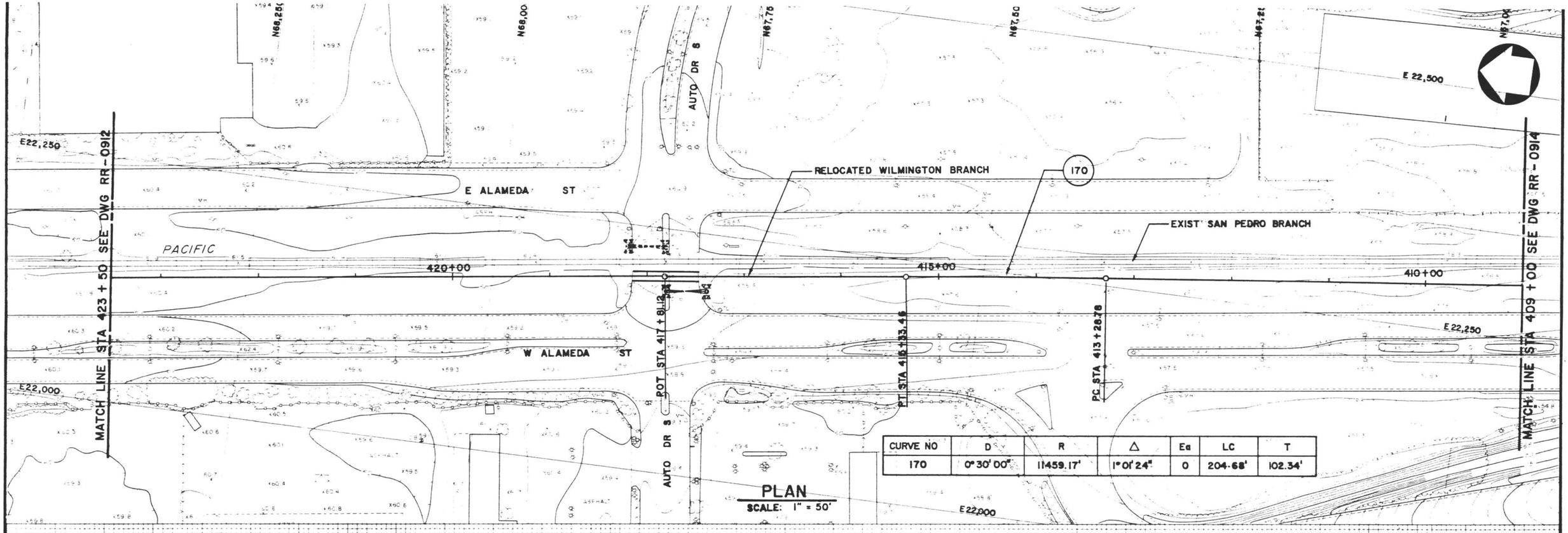
SUBMITTED: _____

Transit Consultants of Southern California
A Joint Venture of:
- Parsons Brinckerhoff Quade & Douglas, Inc.
- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

APPROVED: _____

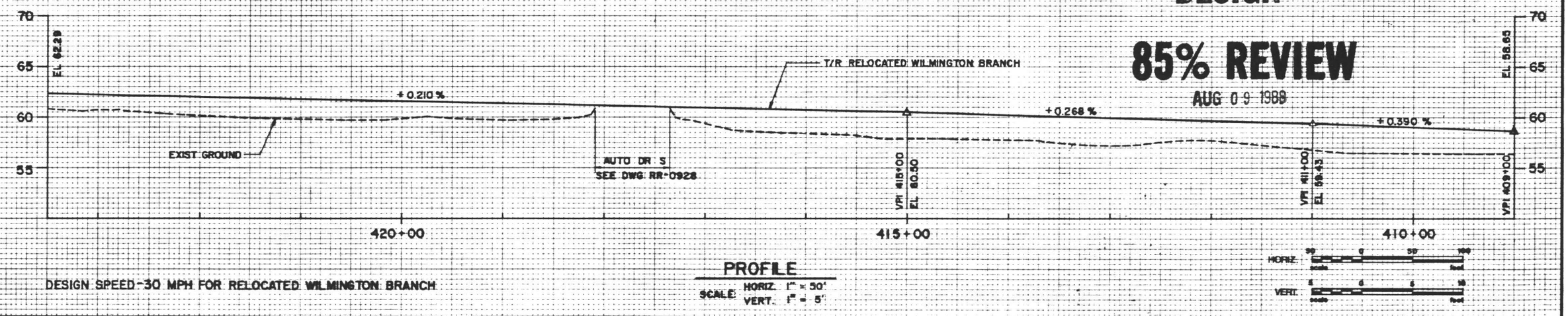
STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
STA 423+50 TO STA 438+00
PLAN & PROFILE SHT 12 OF 21

CONTRACT NO. ROI-TO 1-C235
DRAWING NO. RR - 0912
REV.
SHEET NO. 33
SCALE AS NOTED



CURVE NO	D	R	Δ	Ea	LC	T
170	0°30'00"	11459.17'	1°01'24"	0	204.68'	102.34'

PLAN
SCALE: 1" = 50'



DESIGN SPEED-30 MPH FOR RELOCATED WILMINGTON BRANCH

PROFILE
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

FINAL DESIGN

85% REVIEW

AUG 0 9 1988

REV.	DATE	DESCRIPTION	BY	APP.

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DESIGNED BY J. CHEN
DRAWN BY R. Ordaz
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

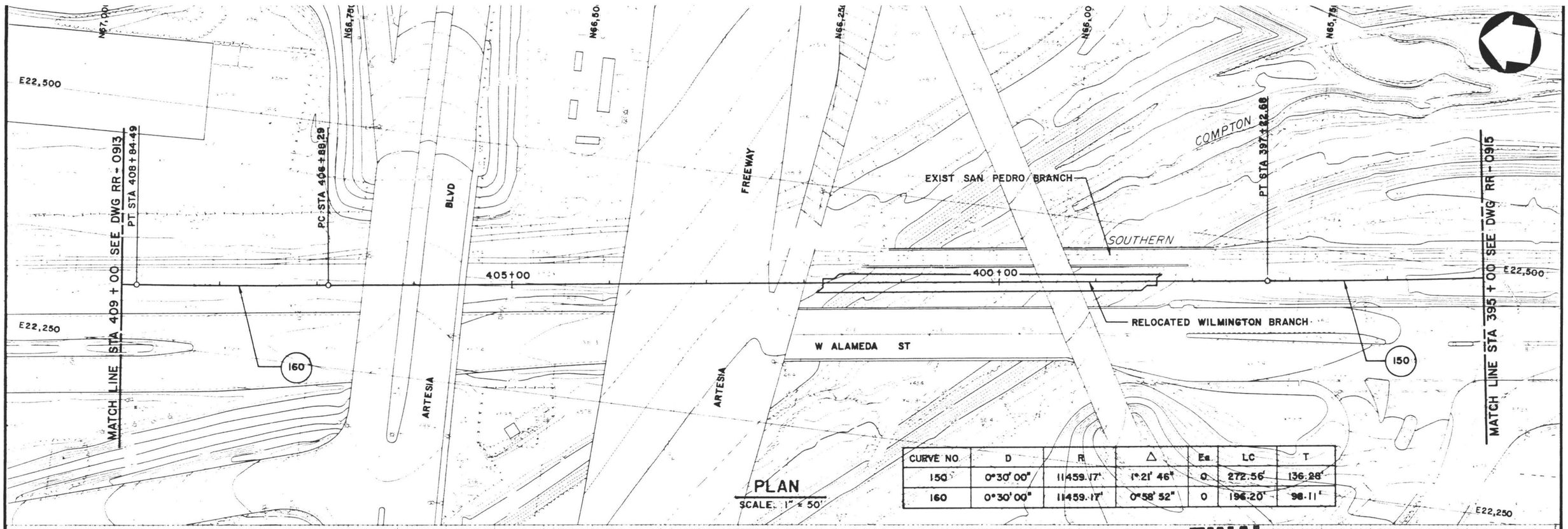
Parsons Brinckerhoff Quade & Douglas, Inc.

Transit Consultants of Southern California
A Joint Venture of: Parsons Brinckerhoff Quade & Douglas, Inc.; Daniel, Mann, Johnson & Mendenhall; Kaiser Engineers (California) Corporation; North Pacific Construction Management

SUBMITTED: _____ APPROVED: _____

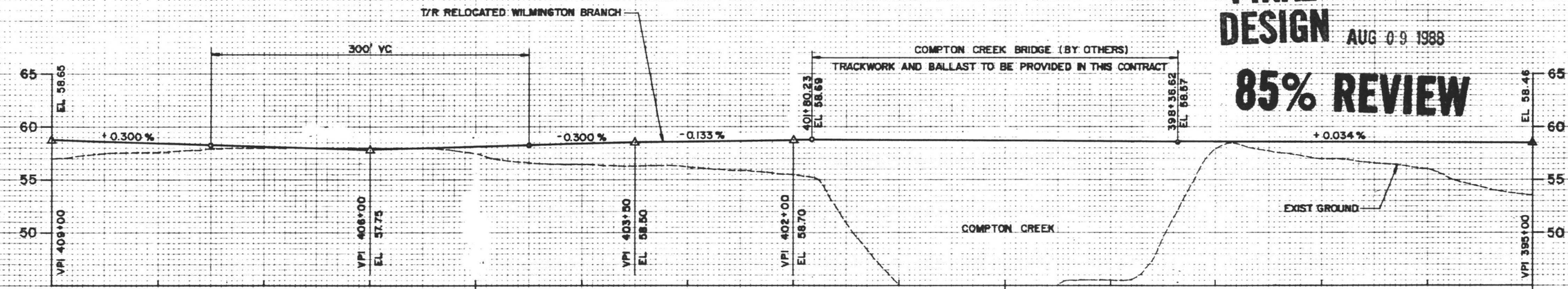
STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
STA 409+00 TO STA 423+50
PLAN & PROFILE SHT 13 OF 21

CONTRACT NO. ROI-TO 1-C235
DRAWING NO. RR - 0913
REV.
SHEET NO. 34
SCALE AS NOTED



CURVE NO.	D	R	Δ	Ea	LC	T
150	0°30' 00"	11459.17'	1°21' 46"	0	272.56'	136.28'
160	0°30' 00"	11459.17'	0°58' 52"	0	196.20'	98.11'

PLAN
SCALE: 1" = 50'



PROFILE
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

DESIGN SPEED-30 MPH FOR RELOCATED WILMINGTON BRANCH

FINAL DESIGN AUG 09 1988

85% REVIEW

REV.	DATE	DESCRIPTION	BY	APP.

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DESIGNED BY J. CHEN
DRAWN BY R. Ordonez
CHECKED BY
APPROVED BY
DATE 4 AUG 88

LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

Parsons Brinckerhoff Quade & Douglas, Inc.

Transit Consultants of Southern California
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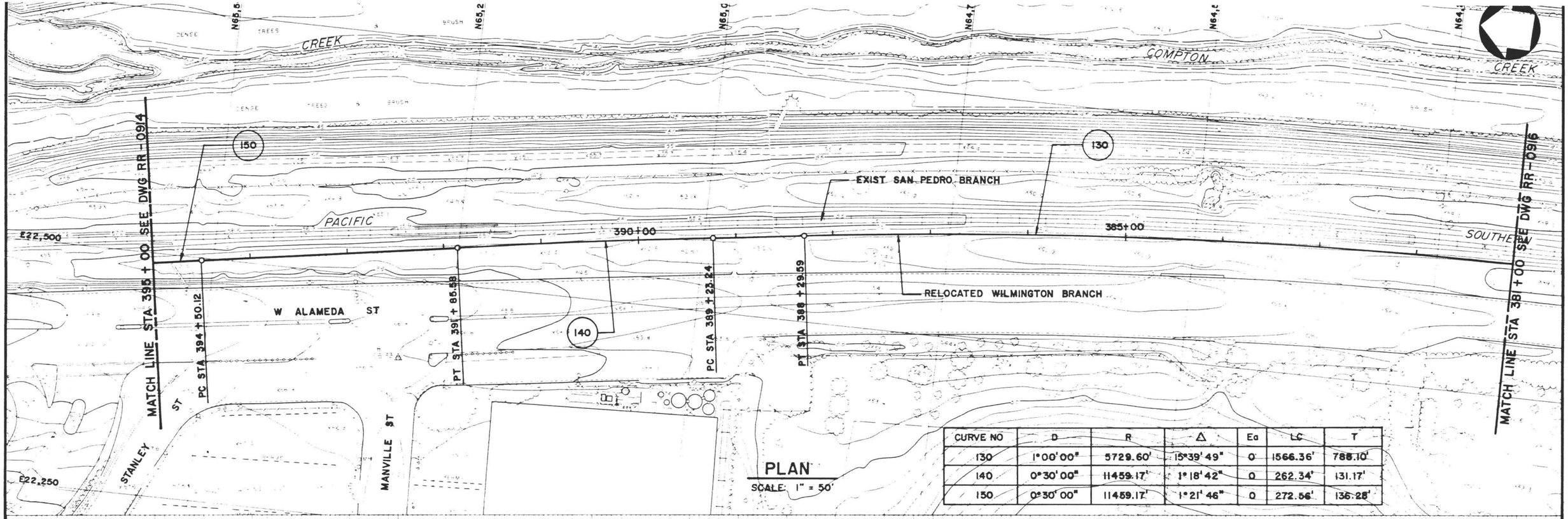
- Parsons Brinckerhoff Quade & Douglas, Inc.
- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

SUBMITTED: _____ APPROVED: _____

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
STA 395+00 TO STA 409+00
PLAN & PROFILE SHT 14 OF 21

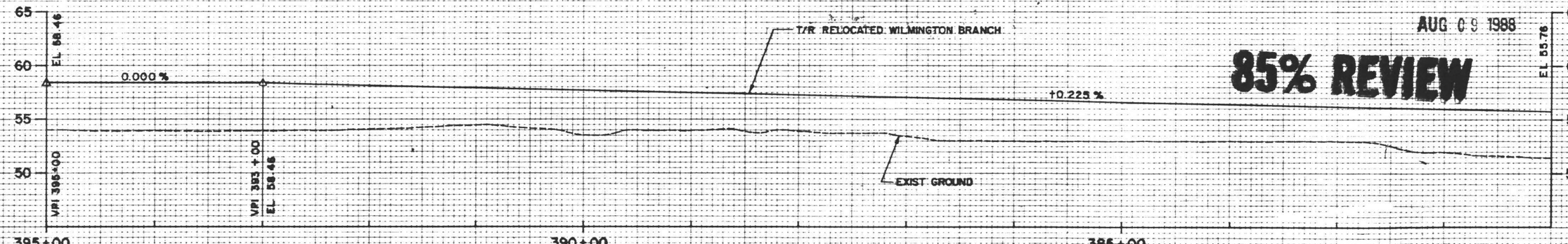
CONTRACT NO. ROI-TO 1-C235
DRAWING NO. RR-0914
REV. SHEET NO. 35
SCALE AS NOTED



PLAN

SCALE: 1" = 50'

CURVE NO	D	R	Δ	Ea	LC	T
130	1°00'00"	5729.60'	15°39'49"	0	1566.36'	788.10'
140	0°30'00"	11459.17'	1°18'42"	0	262.34'	131.17'
150	0°30'00"	11459.17'	1°21'46"	0	272.56'	136.28'



PROFILE

SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

DESIGN SPEED=30 MPH FOR RELOCATED WILMINGTON BRANCH

HORIZ. 50 0 50 100 scale feet
VERT. 5 0 5 10 scale feet

FINAL DESIGN

AUG 09 1988

85% REVIEW

REV.	DATE	DESCRIPTION	BY	APP.

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DESIGNED BY J. CHEN
DRAWN BY R. Ordaz
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

Parsons Brinckerhoff Quade & Douglas, Inc.

SUBMITTED: _____

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- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

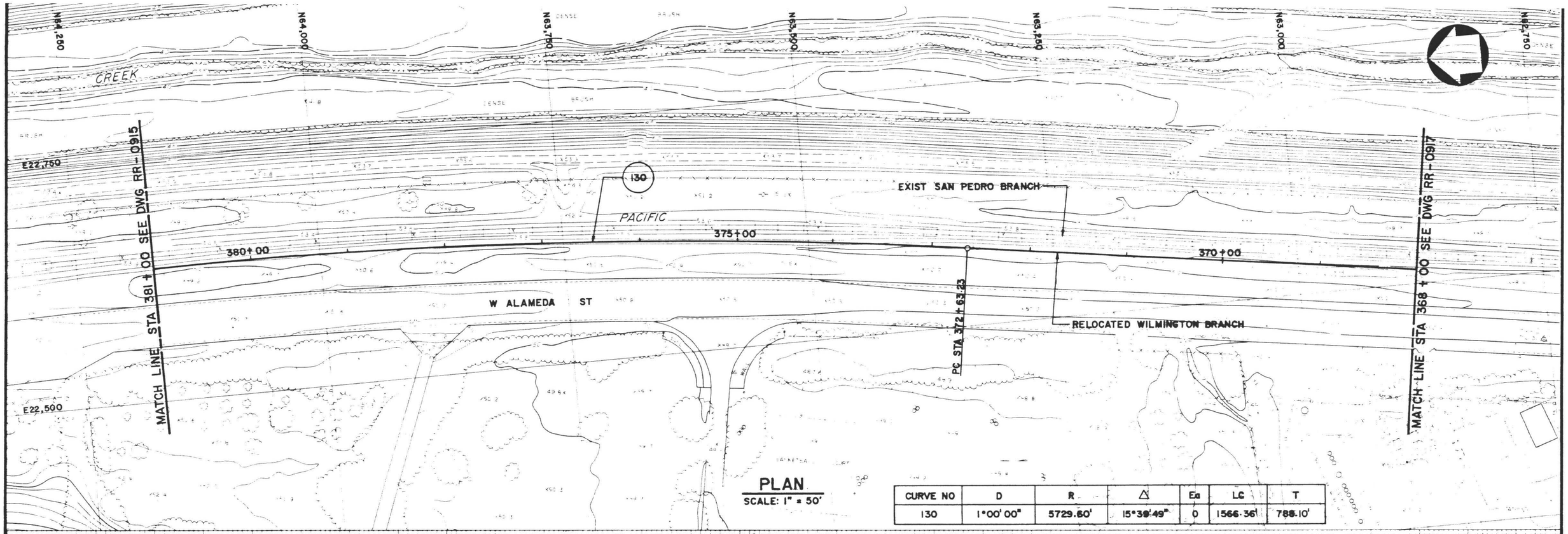
APPROVED: _____

STOCKWELL TO DEL AMO BLVD RAILROAD RELOCATION WORK

STA 381+00 TO STA 395+00

PLAN & PROFILE SHT 15 OF 21

CONTRACT NO. RQI-TO I-C235
DRAWING NO. RR-0915
REV.
SHEET NO. 36
SCALE AS NOTED



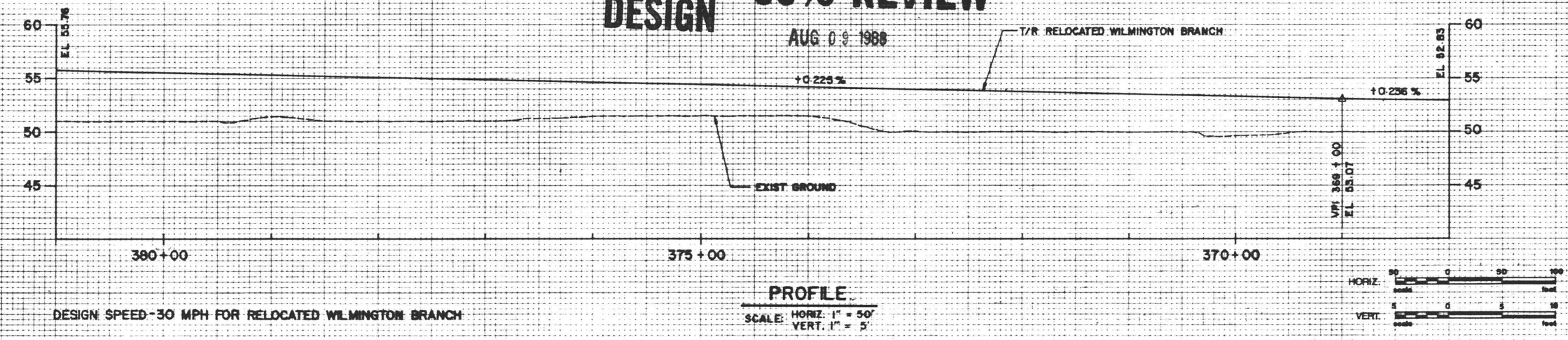
PLAN
SCALE: 1" = 50'

CURVE NO	D	R	Δ	Ea	LC	T
130	1°00'00"	5729.60'	15°39'49"	0	1566.36'	788.10'

FINAL DESIGN

85% REVIEW

AUG 09 1988



PROFILE
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

DESIGN SPEED-30 MPH FOR RELOCATED WILMINGTON BRANCH

REV.	DATE	DESCRIPTION	BY	APP.

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DESIGNED BY J. CHEN
DRAWN BY R. Ordonez
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85% SUBMITTAL

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

Parsons Brinckerhoff Quade & Douglas, Inc.

SUBMITTED: _____

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- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

APPROVED: _____

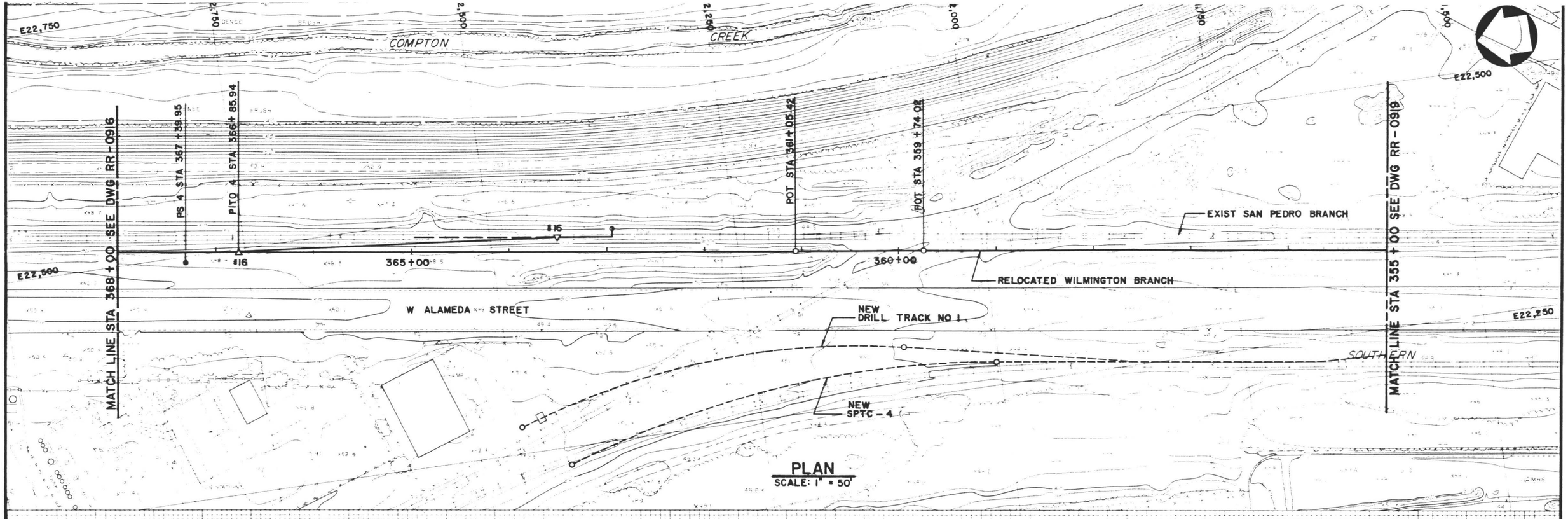
STOCKWELL TO DEL AMO BLVD RAILROAD RELOCATION WORK

STA 368+00 TO STA 381+00

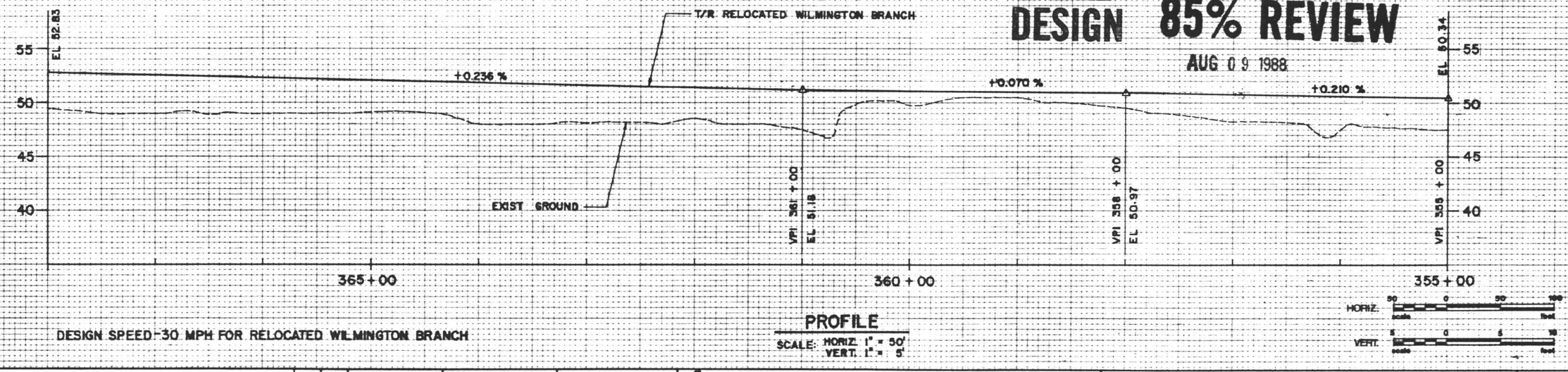
PLAN & PROFILE

SHT 16 OF 21

CONTRACT NO. ROI-TO 1-C235
DRAWING NO. RR-0916
REV.
SHEET NO. 37
SCALE AS NOTED



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

DESIGN SPEED-30 MPH FOR RELOCATED WILMINGTON BRANCH

FINAL DESIGN 85% REVIEW
AUG 09 1988

REV.	DATE	DESCRIPTION	BY	APP.

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DESIGNED BY J. CHEN
DRAWN BY R. Ordaz
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

Parsons Brinckerhoff Quade & Douglas, Inc.

SUBMITTED: _____

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- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

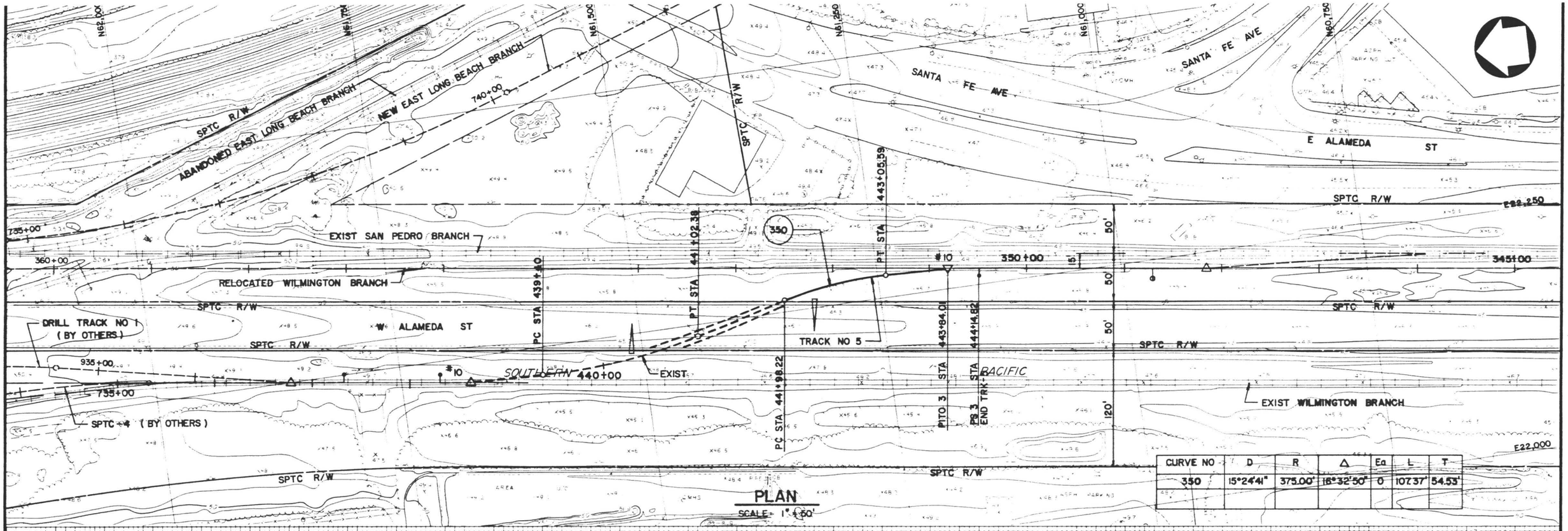
APPROVED: _____

STOCKWELL TO DEL AMO BLVD RAILROAD RELOCATION WORK

STA 355+00 TO STA 368+00

PLAN & PROFILE SHT 17 OF 21

CONTRACT NO. ROI-TO 1-C235
DRAWING NO. RR-0917
REV.
SHEET NO. 38
SCALE AS NOTED



REV.	DATE	DESCRIPTION	BY	APP.

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DRAWN BY R. Ordaz
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LACTC
LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

Parsons Brinckerhoff Quade & Douglas, Inc.

SUBMITTED: _____

Transit Consultants of Southern California
A Joint Venture of:
- Parsons Brinckerhoff Quade & Douglas, Inc.
- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

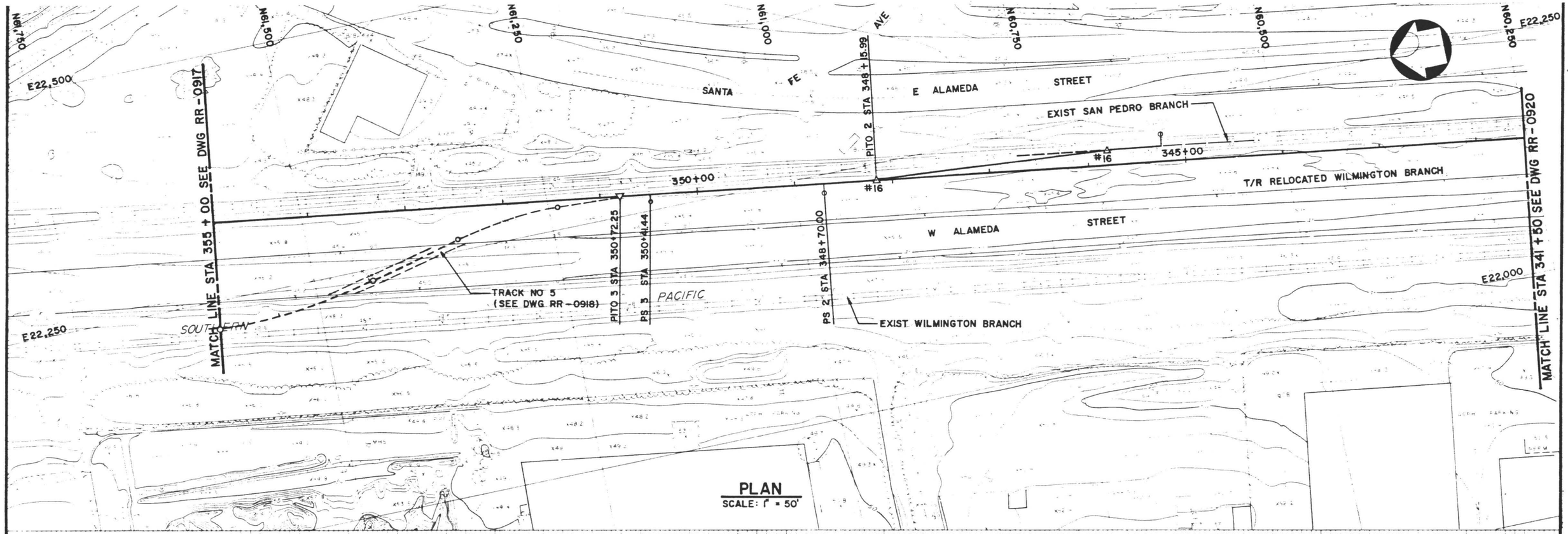
APPROVED: _____

STOCKWELL TO DEL AMO BLVD RAILROAD RELOCATION WORK

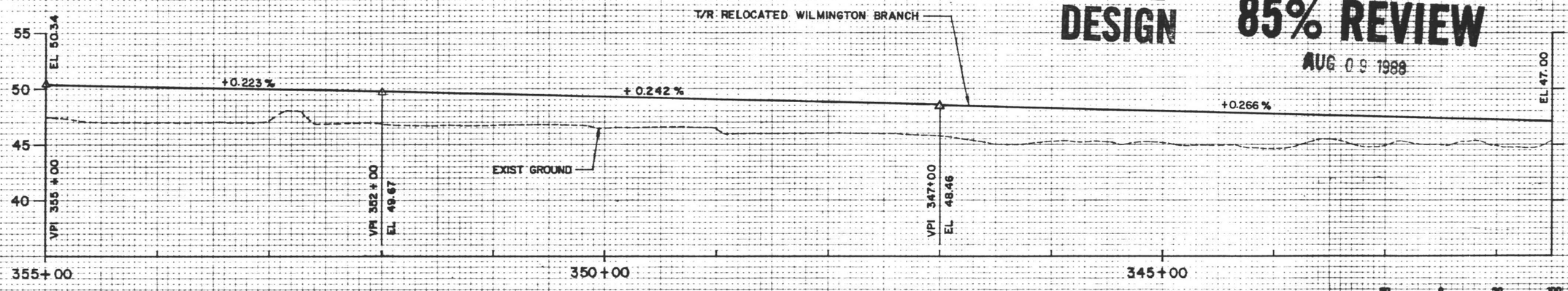
TRACK NO 5

PLAN & PROFILE SHT 18 OF 21

CONTRACT NO. ROI-T01-C235
DRAWING NO. RR-0918
REV.
SHEET NO. 39
SCALE AS NOTED



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

DESIGN SPEED-30 MPH FOR RELOCATED WILMINGTON BRANCH

FINAL DESIGN

85% REVIEW

AUG 09 1988

REV.	DATE	DESCRIPTION	BY	APP.

Information contained on all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Los Angeles County Transportation Commission.

DESIGNED BY J. CHEN
DRAWN BY R. Ordonez
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

Parsons Brinckerhoff Quade & Douglas, Inc.

SUBMITTED: _____

Transit Consultants of Southern California
A Joint Venture of:
@Parsons Brinckerhoff Quade & Douglas, Inc.
@Daniel, Mann, Johnson & Mendenhall
@Kaiser Engineers (California) Corporation
@North Pacific Construction Management

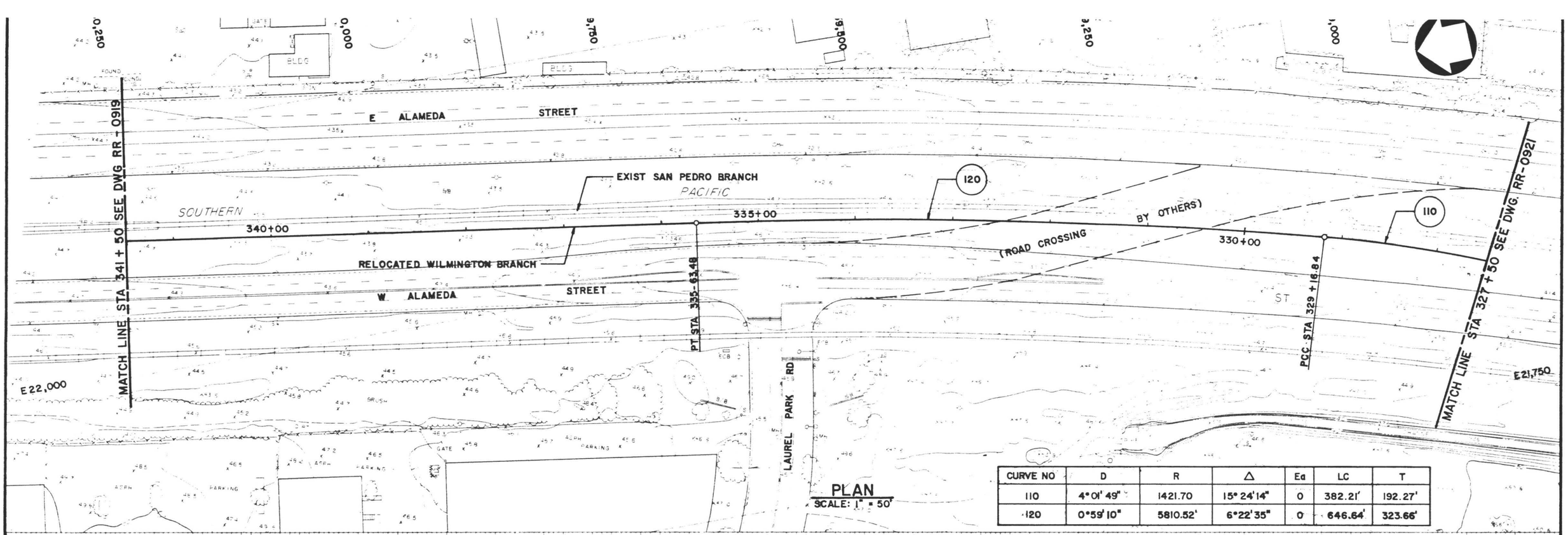
APPROVED: _____

STOCKWELL TO DEL AMO BLVD RAILROAD RELOCATION WORK

STA 341+50 TO STA 355+00

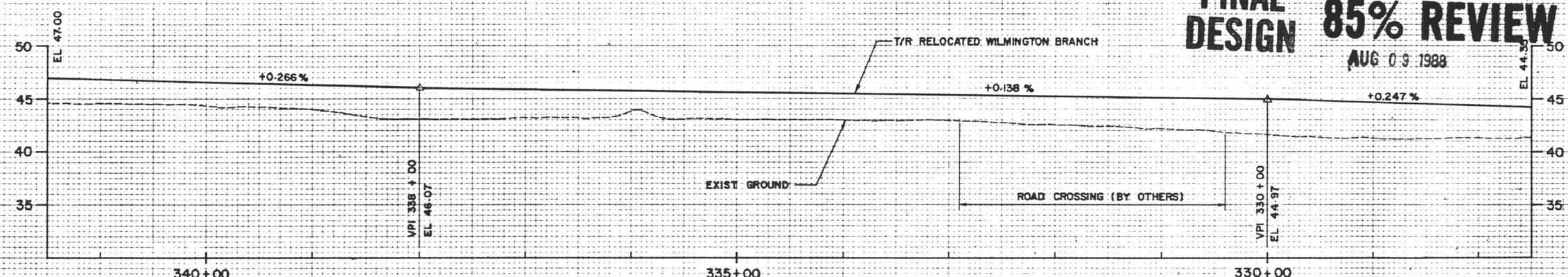
PLAN & PROFILE SHT 19 OF 21

CONTRACT NO. ROI-TO 1-C235
DRAWING NO. RR - 0919
REV.
SHEET NO. 40
SCALE AS NOTED



CURVE NO	D	R	Δ	Ed	LC	T
110	4°01'49"	1421.70	15°24'14"	0	382.21'	192.27'
120	0°59'10"	5810.52'	6°22'35"	0	646.64'	323.66'

PLAN
SCALE: 1" = 50'



PROFILE
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

DESIGN SPEED-30 MPH FOR RELOCATED WILMINGTON BRANCH

FINAL DESIGN 85% REVIEW
AUG 09 1988

REV.	DATE	DESCRIPTION	BY	APP.

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DESIGNED BY J. CHEN
DRAWN BY R. Graham
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

Parsons Brinckerhoff Quade & Douglas, Inc.

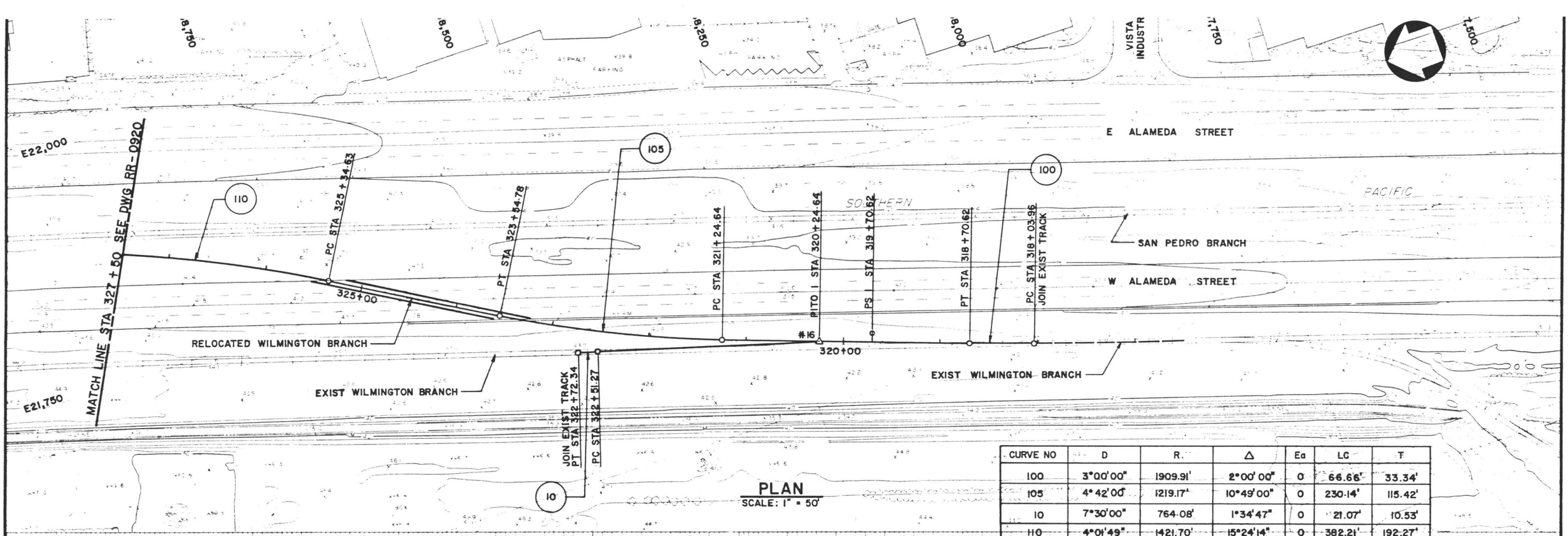
SUBMITTED: _____

Transit Consultants of Southern California
A Joint Venture of: Parsons Brinckerhoff Quade & Douglas, Inc.; Daniel, Mann, Johnson & Mendenhall; Kaiser Engineers (California) Corporation; North Pacific Construction Management

APPROVED: _____

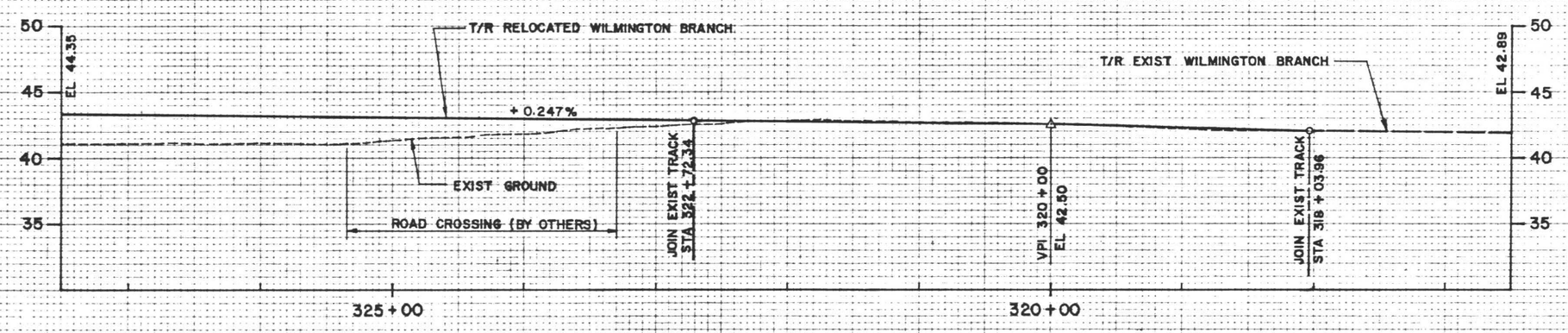
STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
STA 327+50 TO STA 341+50
PLAN & PROFILE SHT 20 OF 21

CONTRACT NO. ROI-TO I-C235
DRAWING NO. RR - 0920
REV.
SHEET NO. 41
SCALE AS NOTED



PLAN
SCALE: 1" = 50'

CURVE NO	D	R	Δ	Ea	LC	T
100	3°00'00"	1909.91'	2°00'00"	0	66.66'	33.34'
105	4°42'00"	1219.17'	10°49'00"	0	230.14'	115.42'
10	7°30'00"	764.08'	1°34'47"	0	21.07'	10.53'
110	4°01'49"	1421.70'	15°24'14"	0	382.21'	192.27'



PROFILE
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

DESIGN SPEED-30 MPH FOR RELOCATED WILMINGTON BRANCH

HORIZ. 50 0 50 100 scale feet
VERT. 5 0 5 10 scale feet

FINAL DESIGN

85% REVIEW

AUG 09 1988

REV.	DATE	DESCRIPTION	BY	SUB	APP.

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DESIGNED BY J. CHEN
DRAWN BY R. Ordonez
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

Parsons Brinckerhoff Quade & Douglas, Inc.

SUBMITTED: _____

Transit Consultants of Southern California
A Joint Venture of: Parsons Brinckerhoff Quade & Douglas, Inc.; Daniel, Mann, Johnson & Mendenhall; Kaiser Engineers (California) Corporation; North Pacific Construction Management

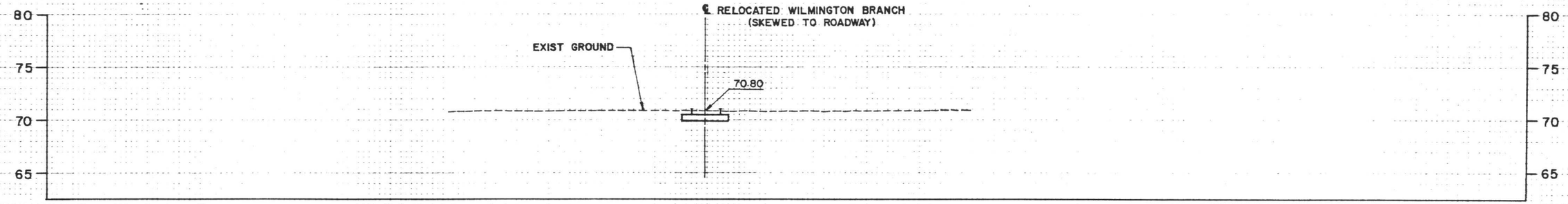
APPROVED: _____

STOCKWELL TO DEL AMO BLVD RAILROAD RELOCATION WORK

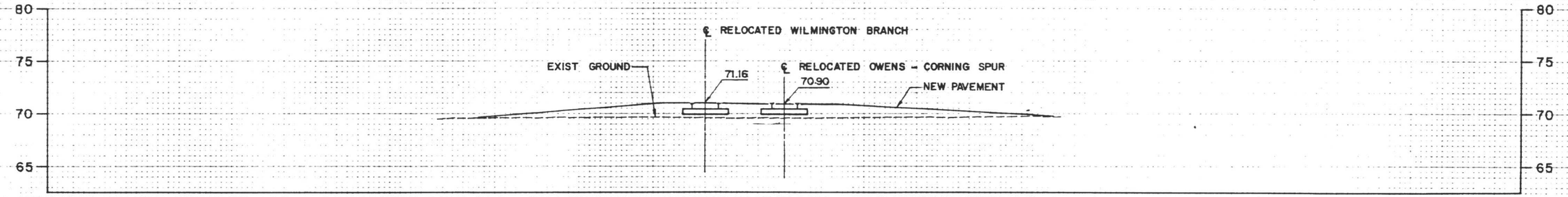
STA 320+91.30 TO STA 327+50

PLAN & PROFILE SHT 21 OF 21

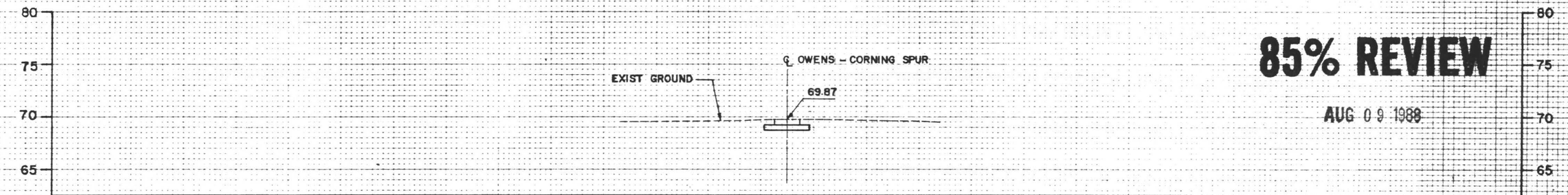
CONTRACT NO. ROI-TO 1-C235
DRAWING NO. RR-0921
REV.
SHEET NO. 42
SCALE AS NOTED



E WILLOWBROOK AVE



W ALAMEDA ST



MEALY ST

FINAL DESIGN

85% REVIEW

AUG 0 9 1988

HORIZ. 10 0 10 20 scale feet

VERT. 5 0 5 10 scale feet

REV.	DATE	DESCRIPTION	BY	APP.

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DRAWN BY R. Ordonez
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LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

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SUBMITTED: _____

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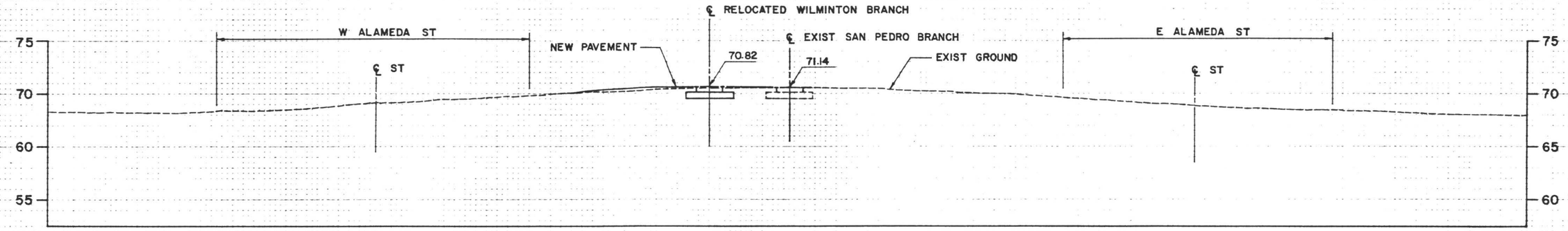
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

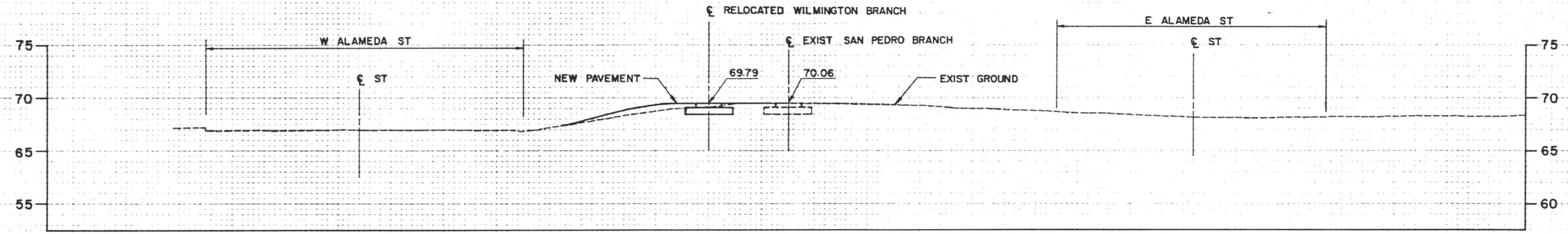
APPROVED: _____

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
RAILROAD GRADE CROSSING
CROSS SECTION SHT 1 OF 4

CONTRACT NO. ROI-TO1-C256
DRAWING NO. RR-0925
REV.
SHEET NO. 43
SCALE AS NOTED



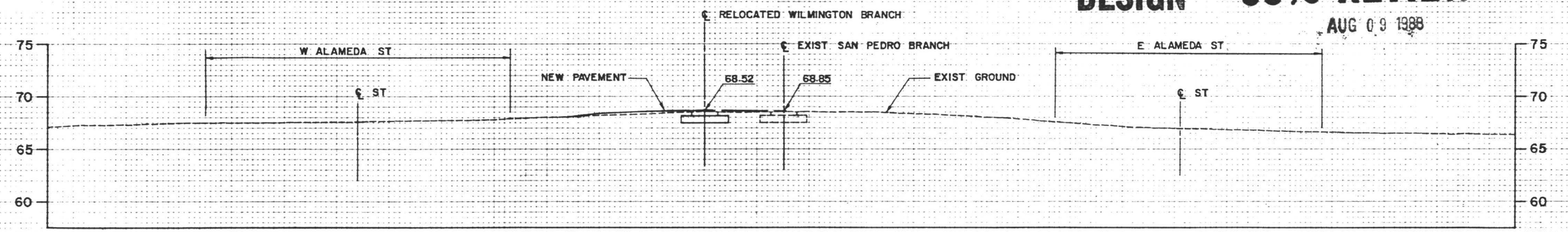
ELM STREET



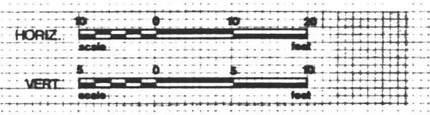
PALMER STREET

FINAL DESIGN **85% REVIEW**

AUG 09 1988



COMPTON BLVD



REV.	DATE	DESCRIPTION	BY	APP.

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DESIGNED BY J. CHEN
DRAWN BY R. Ordonez
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

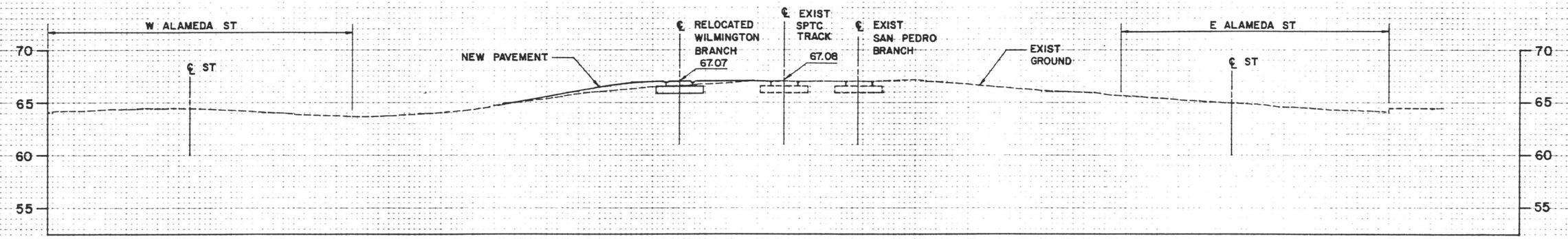
Parsons Brinckerhoff Quade & Douglas, Inc.

Transit Consultants of Southern California
A Joint Venture of:
- Parsons Brinckerhoff Quade & Douglas, Inc.
- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

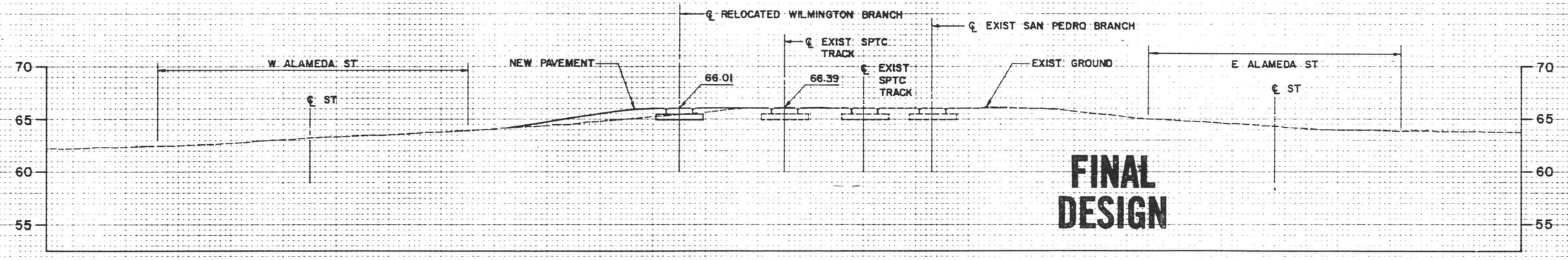
SUBMITTED: _____
APPROVED: _____

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
RAILROAD GRADE CROSSING
CROSS SECTION SHT 2 OF 4

CONTRACT NO. ROI-TO 1-C235
DRAWING NO. RR-0926
REV. SHEET NO. 44
SCALE AS NOTED



LAUREL STREET

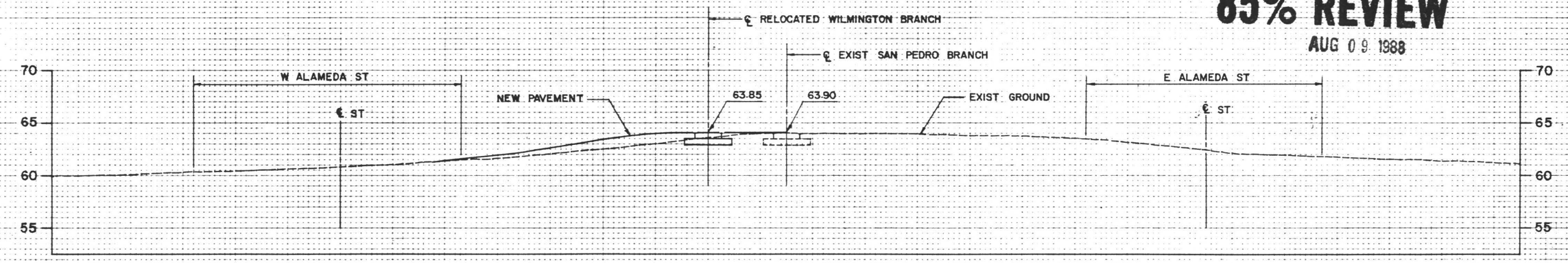


FINAL DESIGN

ALONDRA BLVD

85% REVIEW

AUG 09 1988



GREENLEAF BLVD

HORIZ. 10 0 10 20 scale feet

VERT. 5 0 5 10 scale feet

REV.	DATE	DESCRIPTION	BY	CHK	APP.

Information confidential: all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Los Angeles County Transportation Commission.

DESIGNED BY J. CHEN
DRAWN BY K. Ordaz
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LACTC

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

Parsons Brinckerhoff Quade & Douglas, Inc.

Transit Consultants of Southern California
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- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

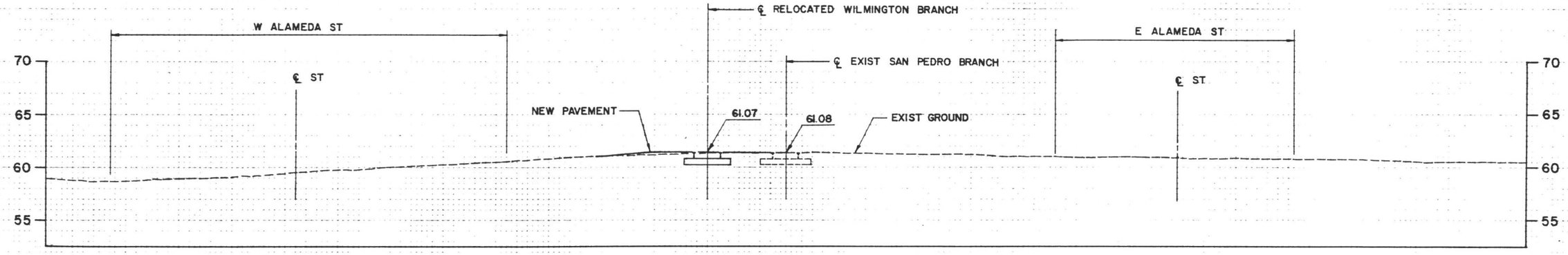
SUBMITTED: _____ APPROVED: _____

STOCKWELL TO DEL AMO BLVD RAILROAD RELOCATION WORK

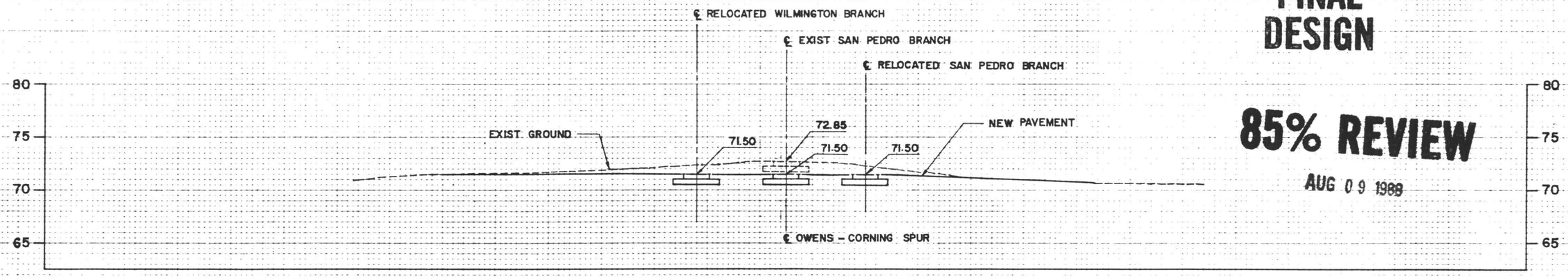
RAILROAD GRADE CROSSING

CROSS SECTION SHT 3 OF 4

CONTRACT NO. ROI-TO I-C235
DRAWING NO. RR-0927
REV.
SHEET NO. 45
SCALE AS NOTED



AUTO DR SOUTH



ROSECRANS AVE

FINAL DESIGN

85% REVIEW

AUG 09 1988

HORIZ. 10 0 10 20 scale feet

VERT. 5 0 5 10 scale feet

REV.	DATE	DESCRIPTION	BY	APP.

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DESIGNED BY J. Chew
DRAWN BY R. Ordaz
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

Parsons Brinckerhoff Quade & Douglas, Inc.

Transit Consultants of Southern California
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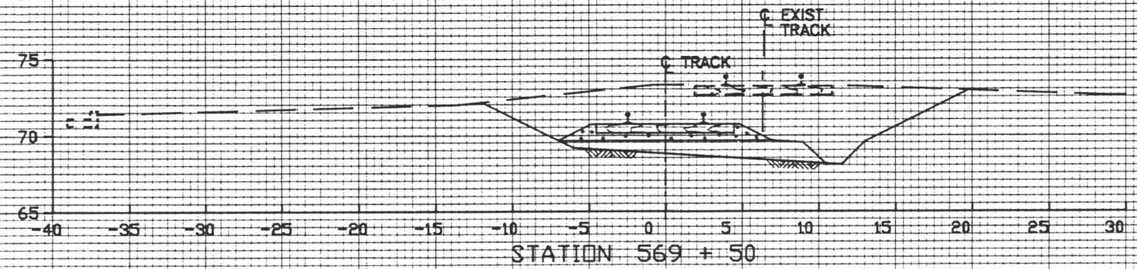
- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

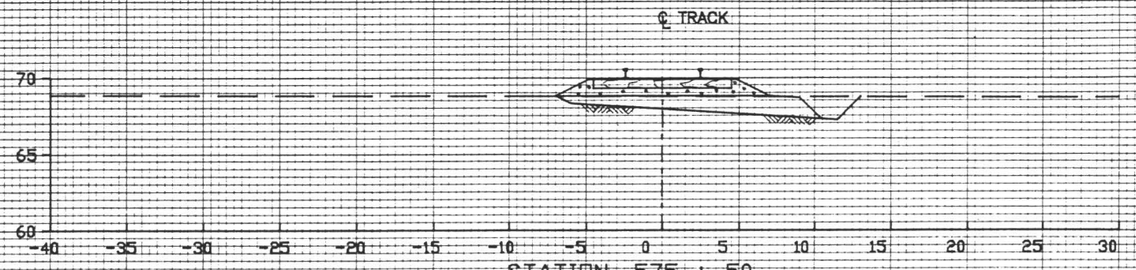
SUBMITTED: _____ APPROVED: _____

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
RAILROAD GRADE CROSSING
CROSS SECTION SHT 4 OF 4

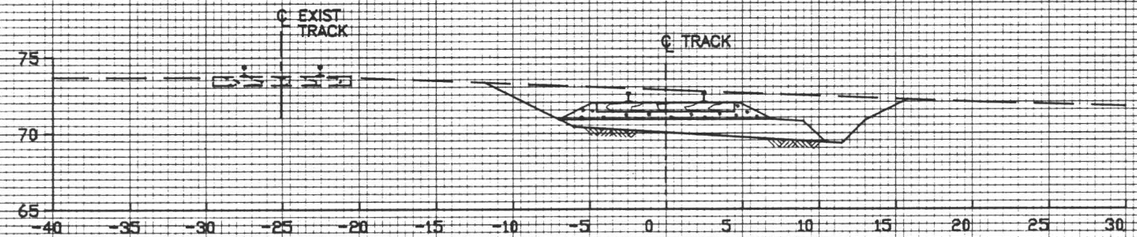
CONTRACT NO. ROI-TO 1-C235
DRAWING NO. RR-0928
REV.
SHEET NO. 46
SCALE AS NOTED



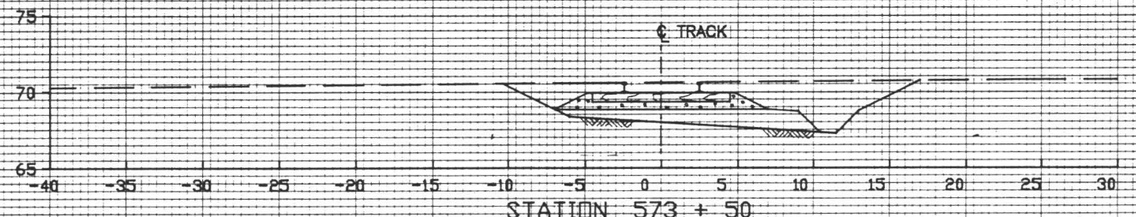
STATION 569 + 50



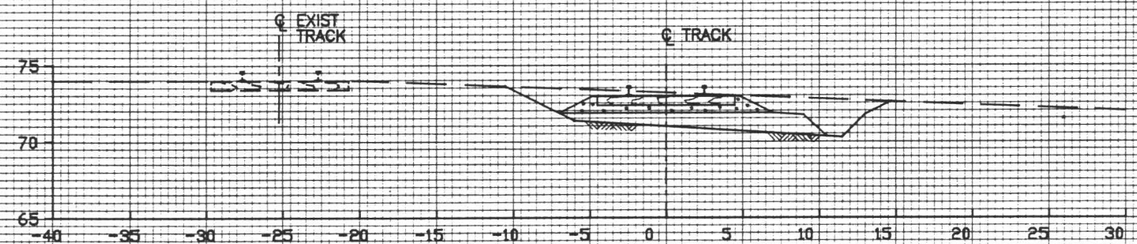
STATION 575 + 50



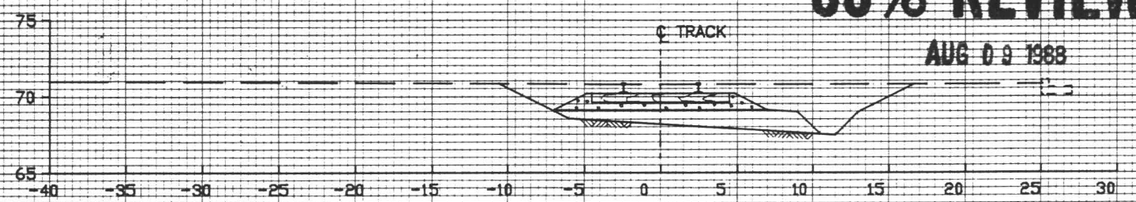
STATION 567 + 50



STATION 573 + 50



STATION 565 + 44.75

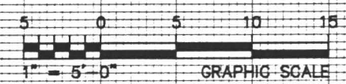


STATION 571 + 50

FINAL DESIGN

85% REVIEW

AUG 0 9 1988



1" = 5'-0" GRAPHIC SCALE

REV.	DATE	DESCRIPTION	BY	SUB	APP.

information confidential
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DESIGNED BY C SHIMUZU
DRAWN BY S STILES
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach – Los Angeles Rail Transit Project

Parsons Brinckerhoff
Parsons Brinckerhoff Quade & Douglas, Inc.

SUBMITTED:

TRANSCAL Transit Consultants of Southern California
A Joint Venture of: ■ Parsons Brinckerhoff Quade & Douglas, Inc. – ■ Daniel, Mann, Johnson & Mendenhall – ■ Kaiser Engineers (California) Corp. – ■ North Pacific Construction Management

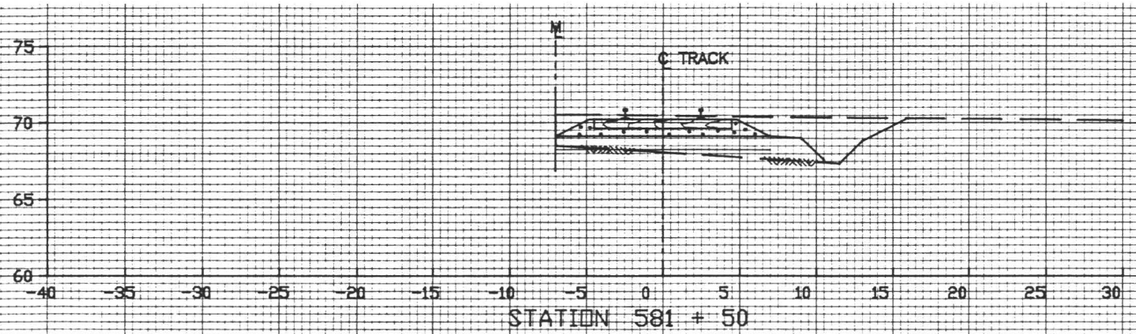
APPROVED:

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK

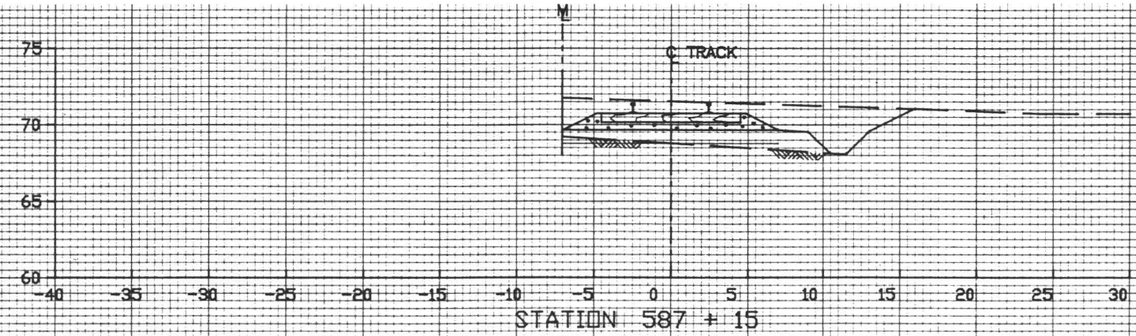
RELOCATED WILMINGTON BRANCH

CROSS–SECTIONS SHEET 1 OF 22

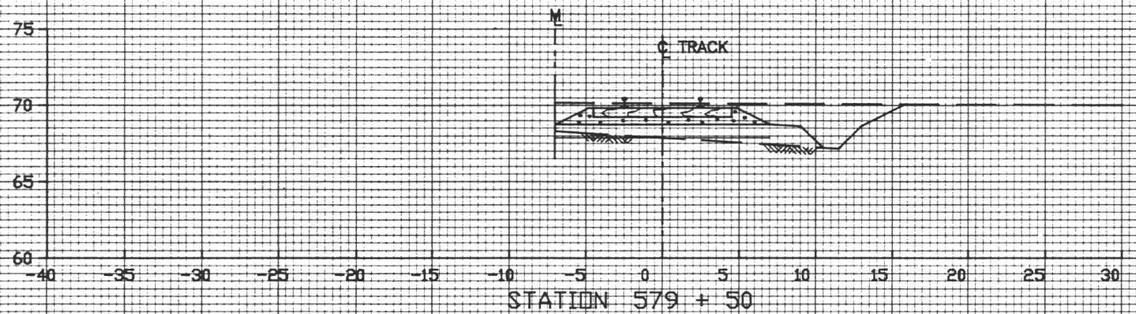
CONTRACT NO. R01–T01–C235
DRAWING NO. RR–0955
REV.
SHEET NO. 47
SCALE 1" = 5'



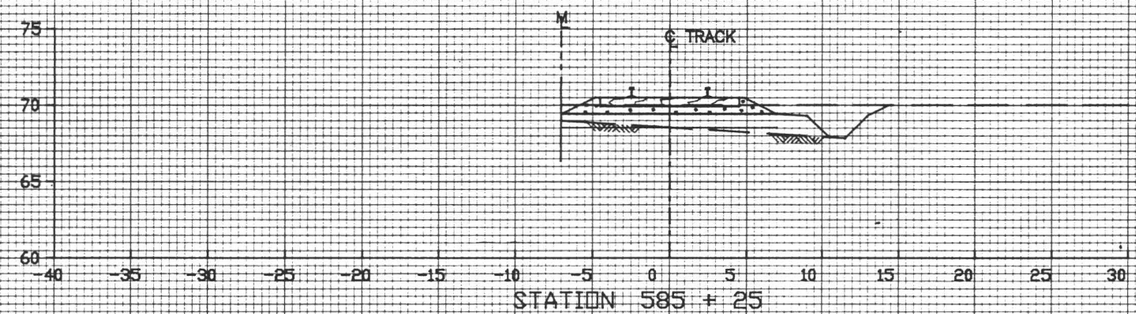
STATION 581 + 50



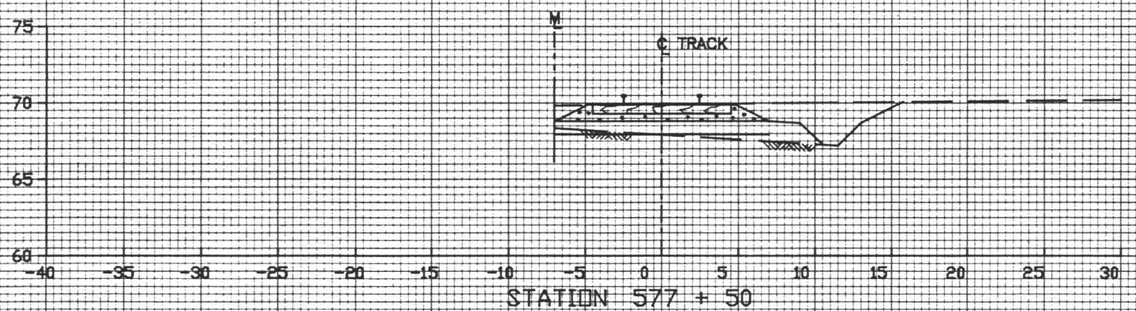
STATION 587 + 15



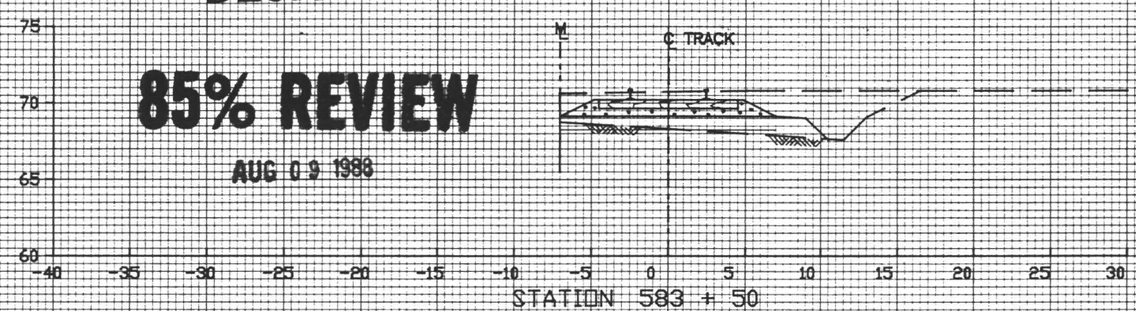
STATION 579 + 50



STATION 585 + 25



STATION 577 + 50



STATION 583 + 50

FINAL DESIGN

85% REVIEW

AUG 0 9 1988

REV.	DATE	DESCRIPTION	BY	SUB	APP.

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DESIGNED BY C SHIMUZU
DRAWN BY S STILES
CHECKED BY
APPROVED BY
DATE 4 AUG 88

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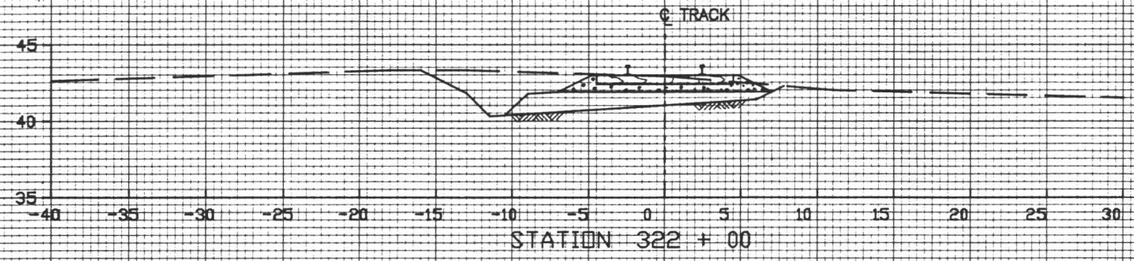
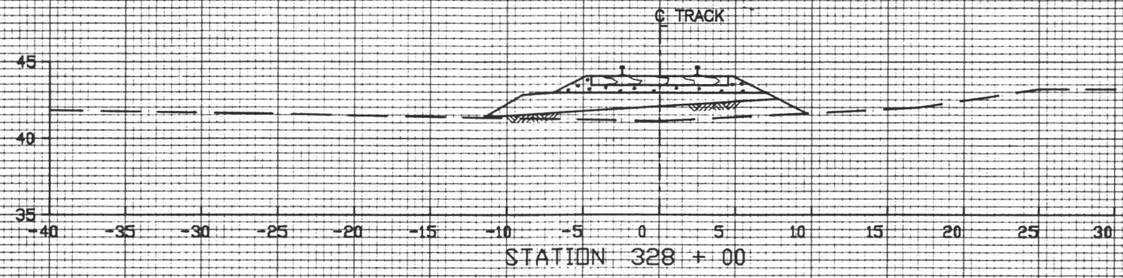
APPROVED:

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
RELOCATED WILMINGTON BRANCH
CROSS–SECTIONS SHEET 2 OF 22

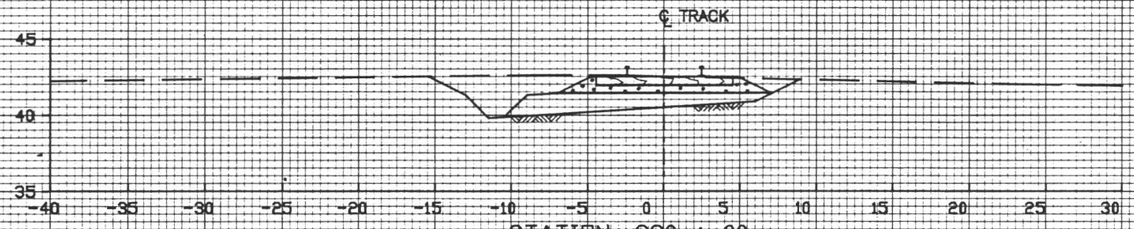
CONTRACT NO. R01–T01–C235
DRAWING NO. RR–0956
REV. SHEET NO. 48
SCALE 1" = 5'



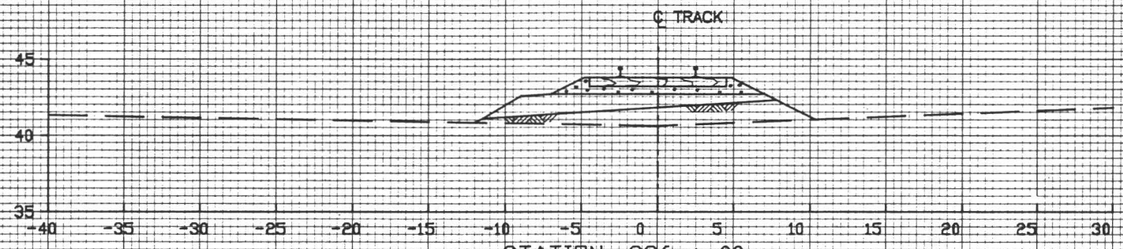
STATION 322 + 00



STATION 328 + 00

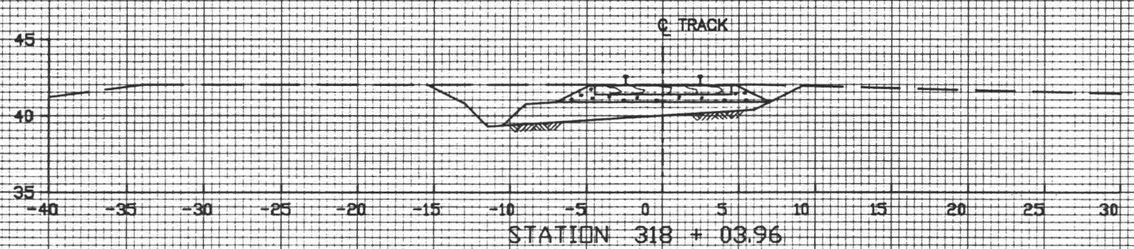


STATION 320 + 00

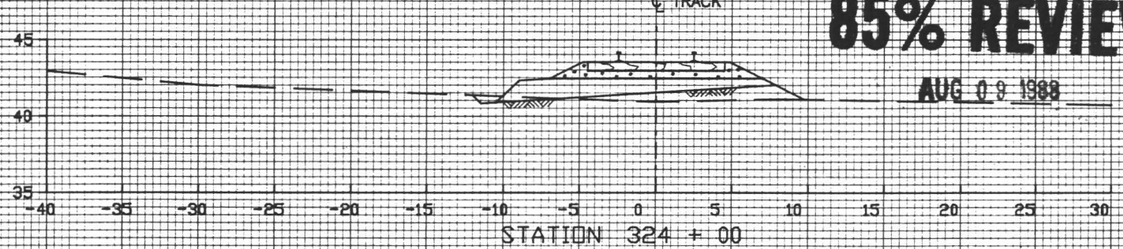


STATION 326 + 00

FINAL DESIGN



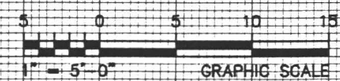
STATION 318 + 03.96



STATION 324 + 00

85% REVIEW

AUG 0 8 1988



1" = 5'-0" GRAPHIC SCALE

REV.	DATE	DESCRIPTION	BY	SUB	APP.

Information confidential all plans, drawings, specifications, and or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Los Angeles County Transportation Commission

DESIGNED BY C SHIMUZU
DRAWN BY S STILES
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach – Los Angeles Rail Transit Project

Parsons Brinckerhoff
Parsons Brinckerhoff Quade & Douglas, Inc.

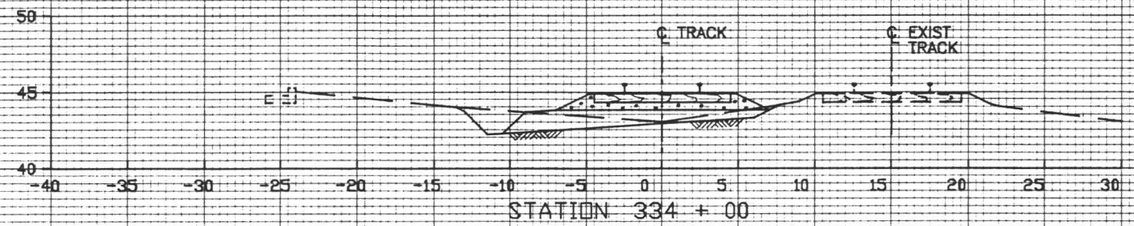
SUBMITTED:

TRANSCAL Transit Consultants of Southern California
A Joint Venture of: ■ Parsons Brinckerhoff Quade & Douglas, Inc. – ■ Daniel, Mann, Johnson & Mendenhall – ■ Kaiser Engineers (California) Corp. – ■ North Pacific Construction Management

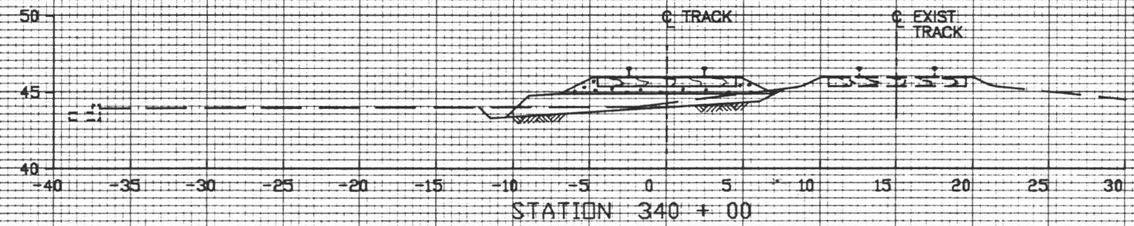
APPROVED:

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
RELOCATED WILMINGTON BRANCH
CROSS–SECTIONS SHEET 3 OF 22

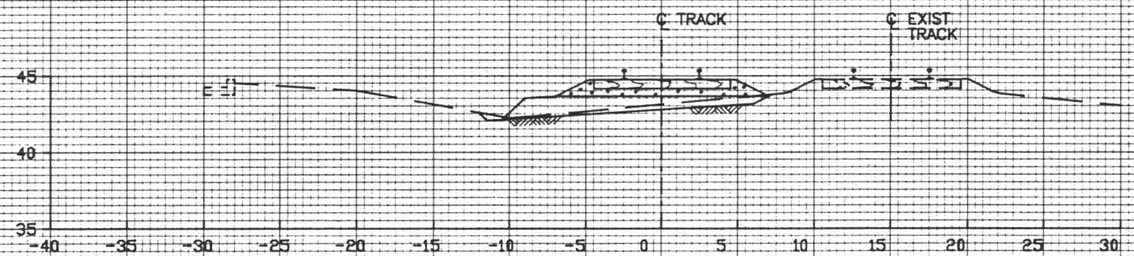
CONTRACT NO. R01–T01–C235
DRAWING NO. RR–0957
REV. | SHEET NO. 49
SCALE 1" = 5'



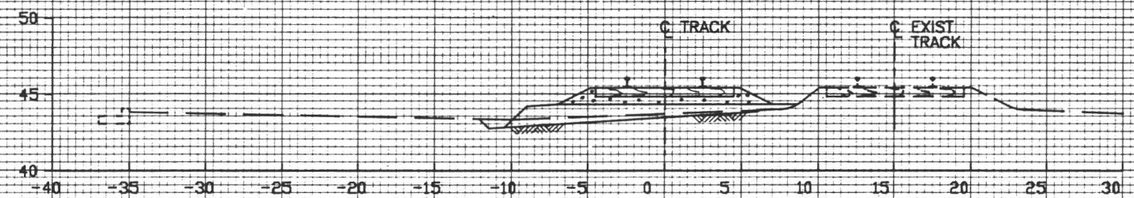
STATION 334 + 00



STATION 340 + 00



STATION 333 + 00

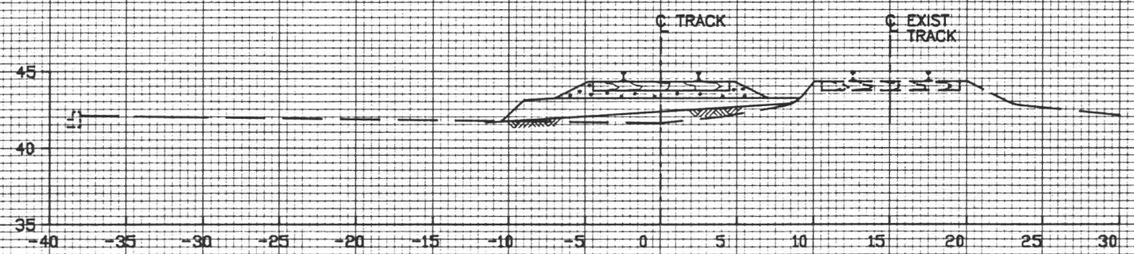


STATION 338 + 00

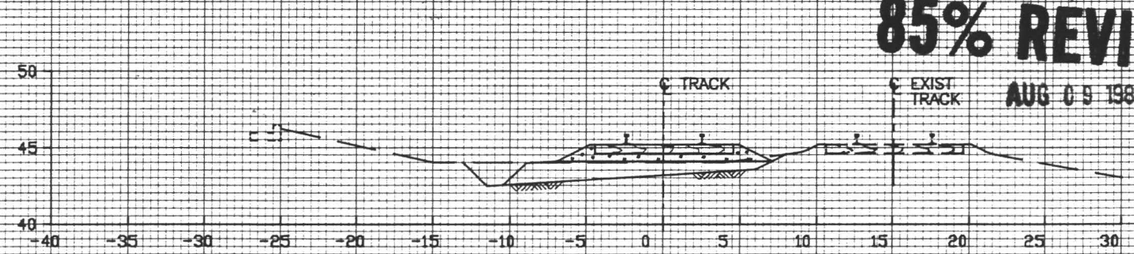
FINAL DESIGN

85% REVIEW

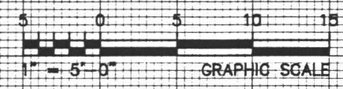
AUG 0 8 1988



STATION 330 + 00



STATION 336 + 00



REV.	DATE	DESCRIPTION	BY	APP.

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DESIGNED BY C SHIMUZU
DRAWN BY S STILES
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach – Los Angeles Rail Transit Project

Parsons Brinckerhoff
Parsons Brinckerhoff Quade & Douglas, Inc.

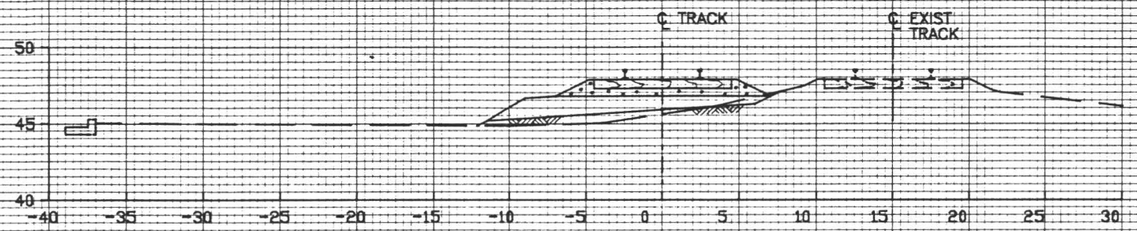
SUBMITTED:

TRANSCAL Transit Consultants of Southern California
A Joint Venture of: ■ Parsons Brinckerhoff Quade & Douglas, Inc. – ■ Daniel, Mann, Johnson & Mendenhall – ■ Kaiser Engineers (California) Corp. – ■ North Pacific Construction Management

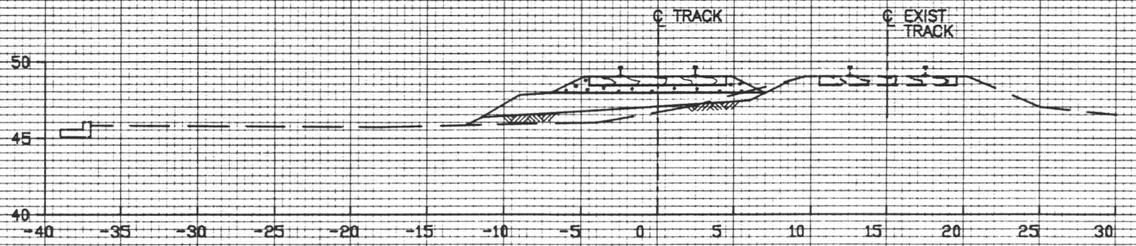
APPROVED:

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
RELOCATED WILMINGTON BRANCH
CROSS–SECTIONS SHEET 4 OF 22

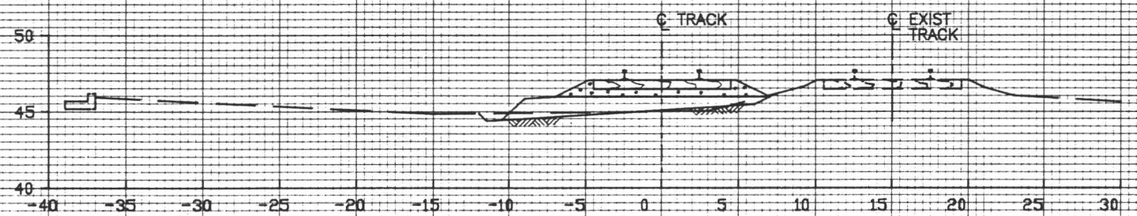
CONTRACT NO. R01–T01–C235
DRAWING NO. RR–0958
REV. SHEET NO. 50
SCALE 1" = 5'



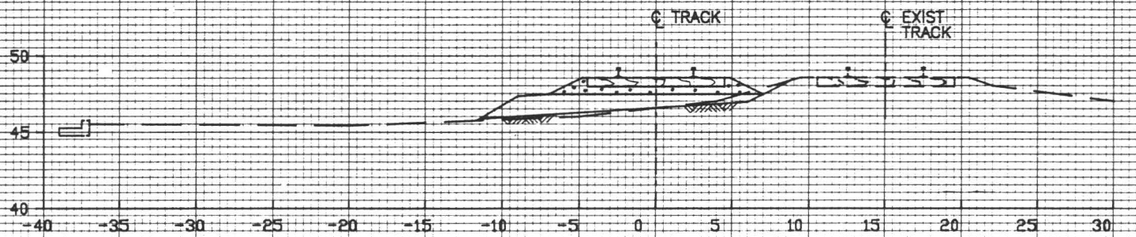
STATION 347 + 00



STATION 352 + 00



STATION 344 + 00

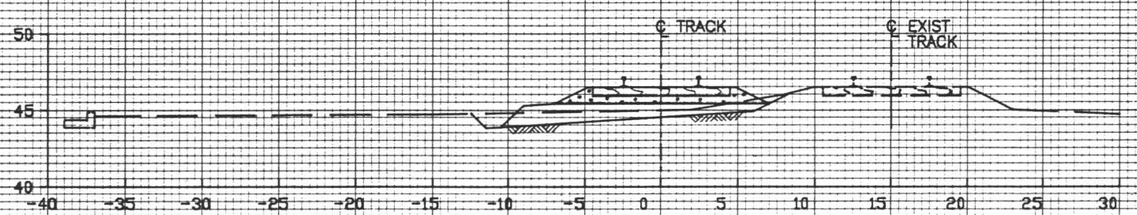


STATION 350 + 00

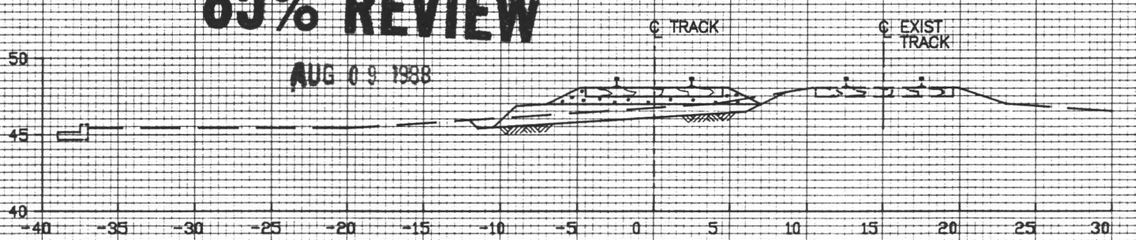
FINAL DESIGN

85% REVIEW

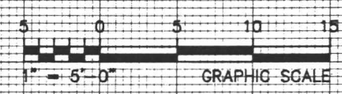
AUG 09 1988



STATION 342 + 00



STATION 348 + 00



REV.	DATE	DESCRIPTION	BY	APP.

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DESIGNED BY C SHIMUZU
DRAWN BY S STILES
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach – Los Angeles Rail Transit Project

Parsons Brinckerhoff
Parsons Brinckerhoff Quade & Douglas, Inc.

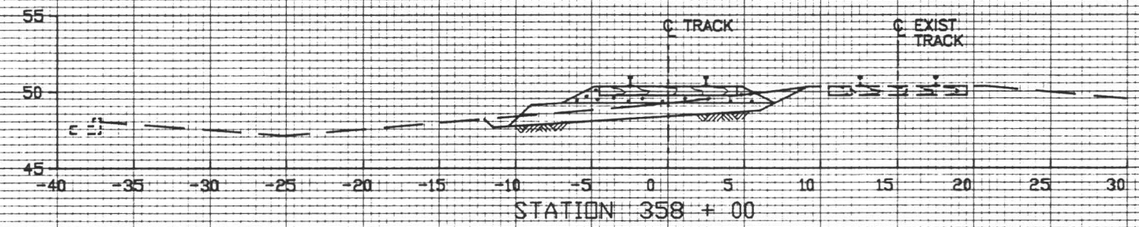
TRANSCAL Transit Consultants of Southern California
A Joint Venture of: ■ Parsons Brinckerhoff Quade & Douglas, Inc. – ■ Daniel, Mann, Johnson & Mendenhall – ■ Kaiser Engineers (California) Corp. – ■ North Pacific Construction Management

SUBMITTED:

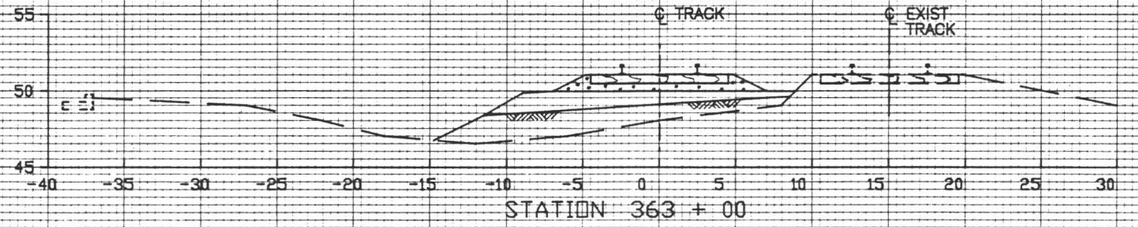
APPROVED:

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
RELOCATED WILMINGTON BRANCH
CROSS–SECTIONS SHEET 5 OF 22

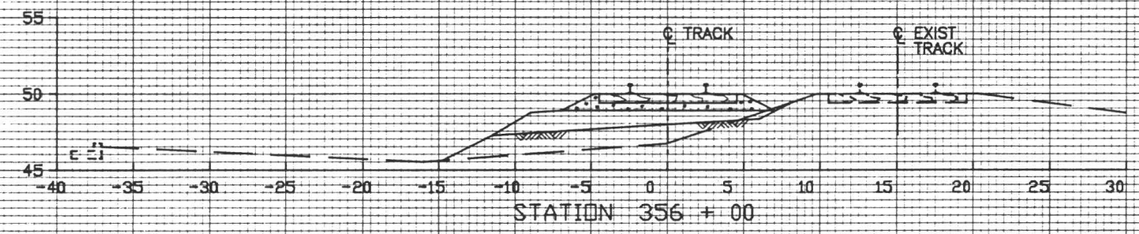
CONTRACT NO. R01–T01–C235
DRAWING NO. RR–0959
REV. SHEET NO. 51
SCALE 1" = 5'



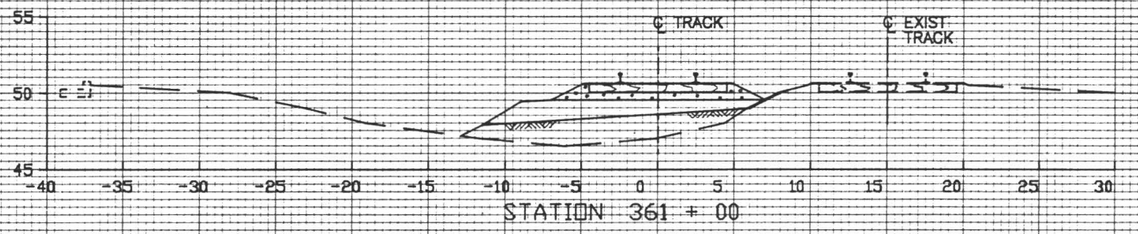
STATION 358 + 00



STATION 363 + 00



STATION 356 + 00

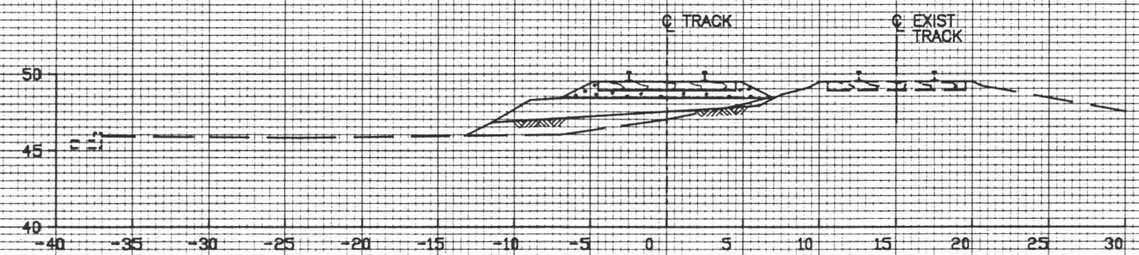


STATION 361 + 00

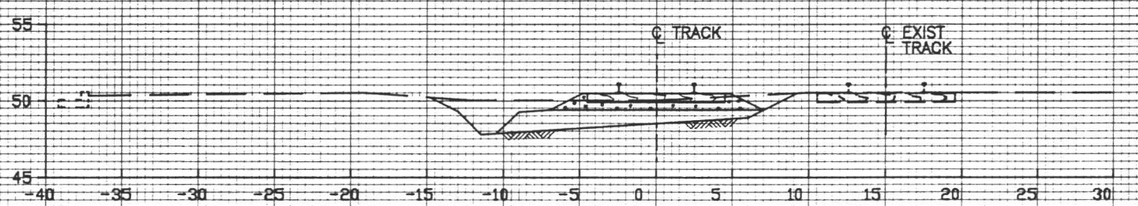
85% REVIEW

FINAL DESIGN

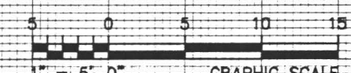
AUG 09 1988



STATION 354 + 00



STATION 360 + 00



REV.	DATE	DESCRIPTION	BY / SUB / APP.

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DESIGNED BY C SHIMUZU
DRAWN BY S STILES
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach – Los Angeles Rail Transit Project

Parsons Brinckerhoff
Parsons Brinckerhoff Quade & Douglas, Inc.

TRANSCAL Transit Consultants of Southern California
A Joint Venture of: Parsons Brinckerhoff Quade & Douglas, Inc. – Daniel, Mann, Johnson & Mendenhall – Kaiser Engineers (California) Corp. – North Pacific Construction Management

SUBMITTED:

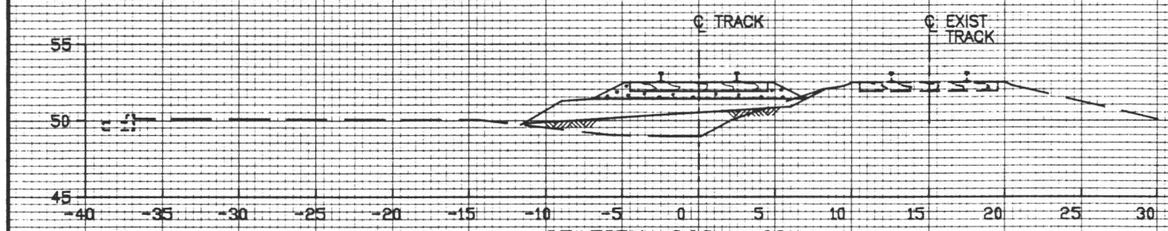
APPROVED:

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK

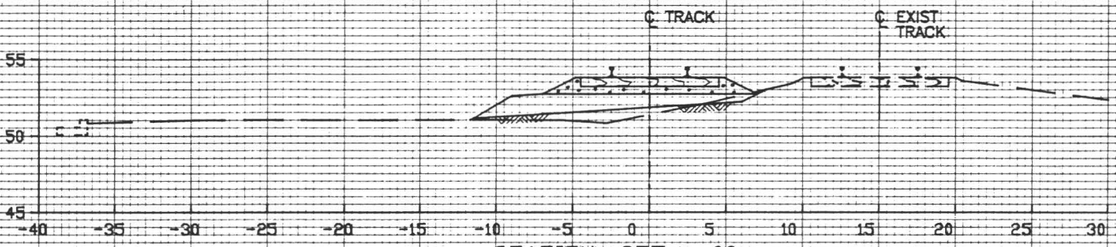
RELOCATED WILMINGTON BRANCH

CROSS–SECTIONS SHEET 6 OF 22

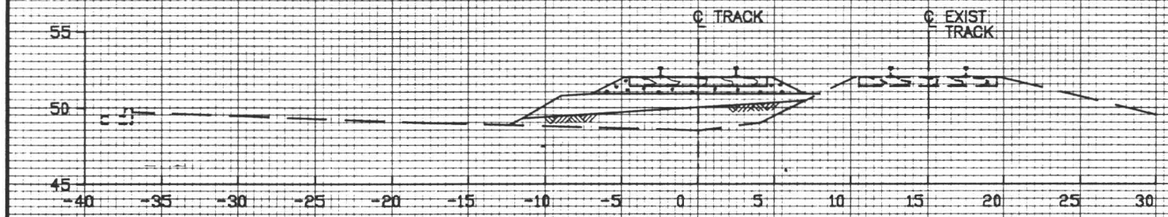
CONTRACT NO. R01–T01–C235
DRAWING NO. RR–0960
REV. SHEET NO. 52
SCALE 1" = 5'



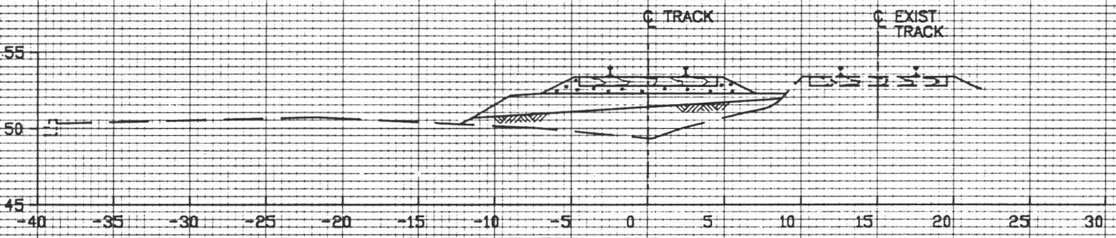
STATION 369 + 00



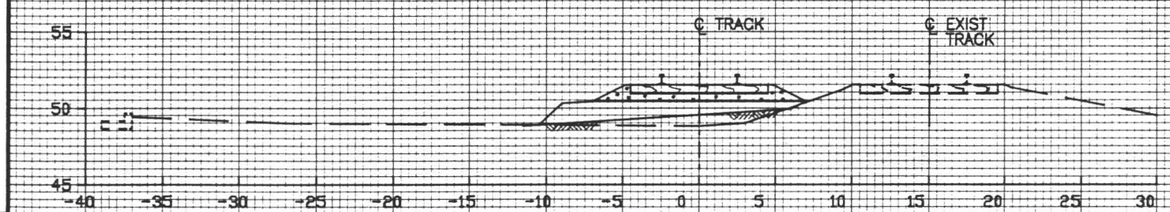
STATION 375 + 00



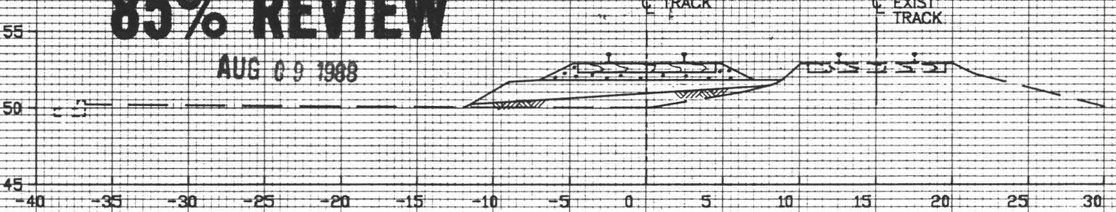
STATION 367 + 00



STATION 373 + 00



STATION 365 + 00



STATION 371 + 00

FINAL DESIGN

85% REVIEW

AUG 09 1988

5 0 5 10 15

1" = 5'-0" GRAPHIC SCALE

REV.	DATE	DESCRIPTION	BY	SUB	APP.

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DRAWN BY S STILES
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APPROVED BY
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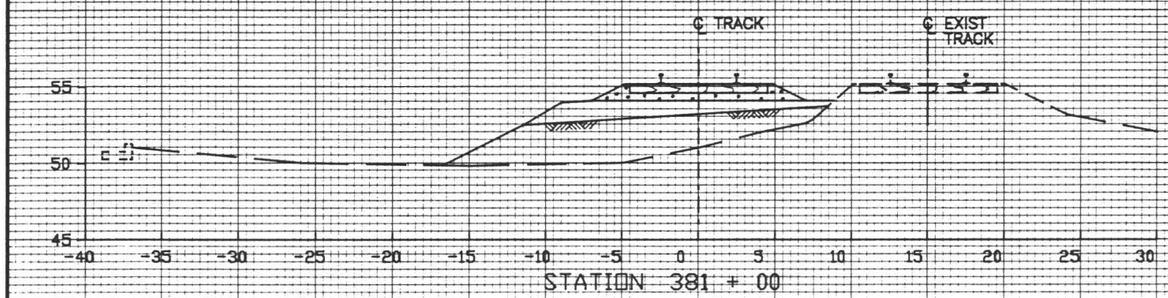
APPROVED:

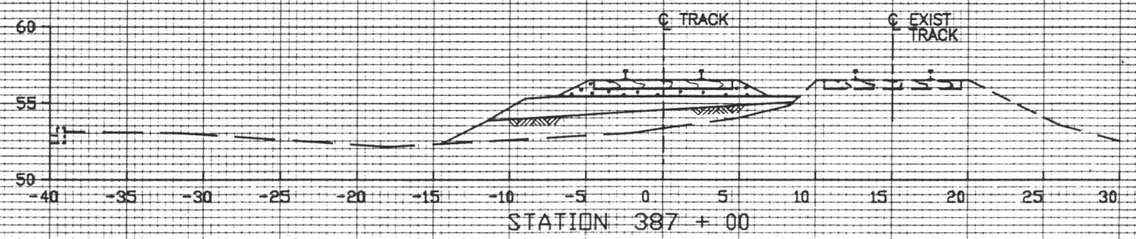
STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
RELOCATED WILMINGTON BRANCH

CROSS–SECTIONS SHEET 7 OF 22

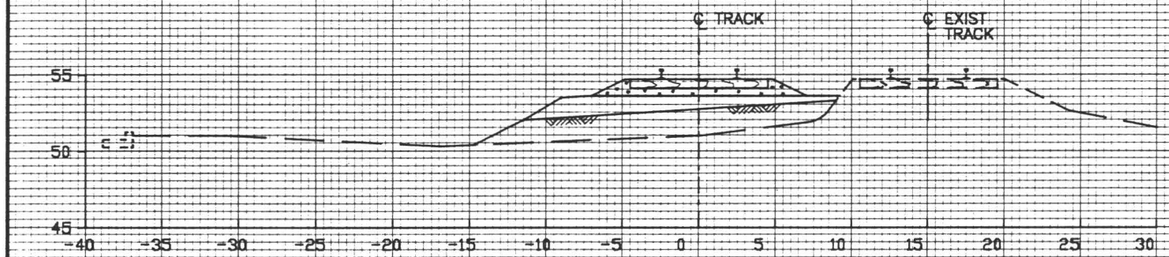
CONTRACT NO. R01–T01–C235
DRAWING NO. RR–0961
REV. SHEET NO. 53
SCALE 1" = 5'



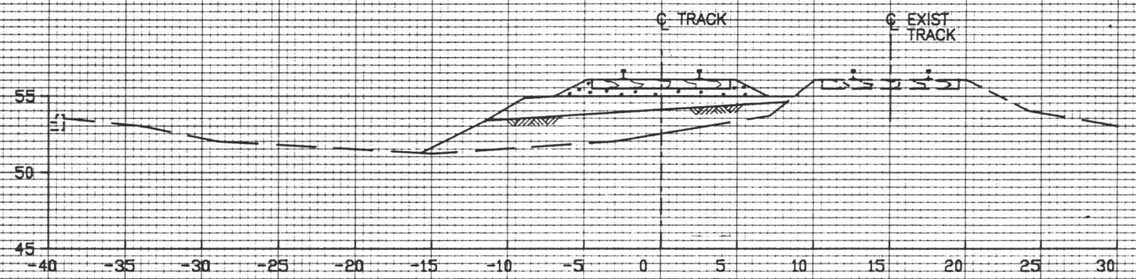
STATION 381 + 00



STATION 387 + 00



STATION 379 + 00

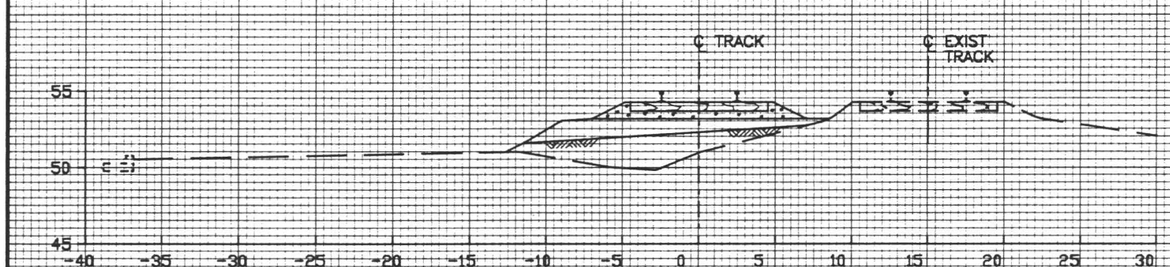


STATION 385 + 00

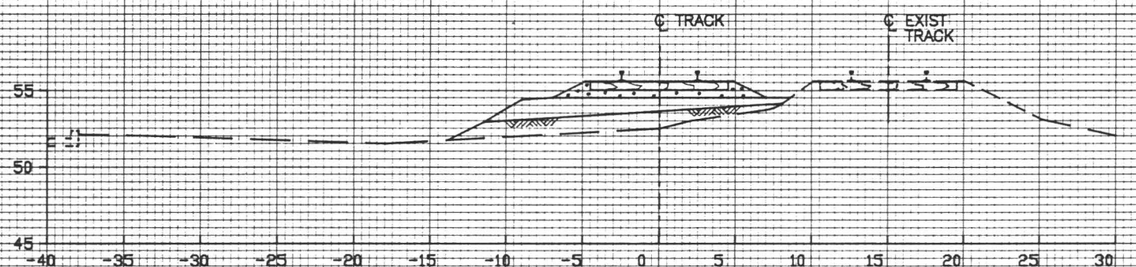
FINAL DESIGN

85% REVIEW

AUG 09 1988



STATION 377 + 00



STATION 383 + 00



REV.	DATE	DESCRIPTION	BY	SUB	APP.

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DRAWN BY S STILES
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

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The Long Beach – Los Angeles Rail Transit Project

Parsons Brinckerhoff
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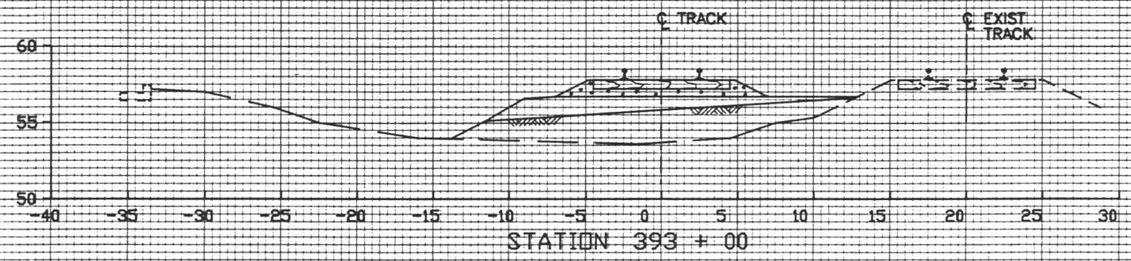
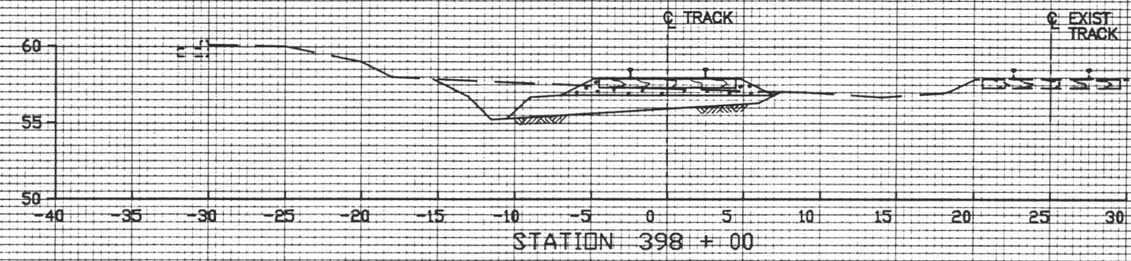
APPROVED:

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
RELOCATED WILMINGTON BRANCH
CROSS–SECTIONS SHEET 8 OF 22

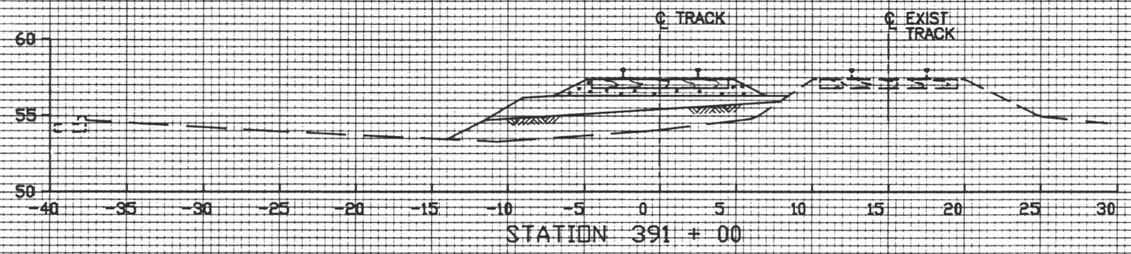
CONTRACT NO. R01–T01–C235
DRAWING NO. RR–0962
REV. | SHEET NO. 54
SCALE 1" = 5'



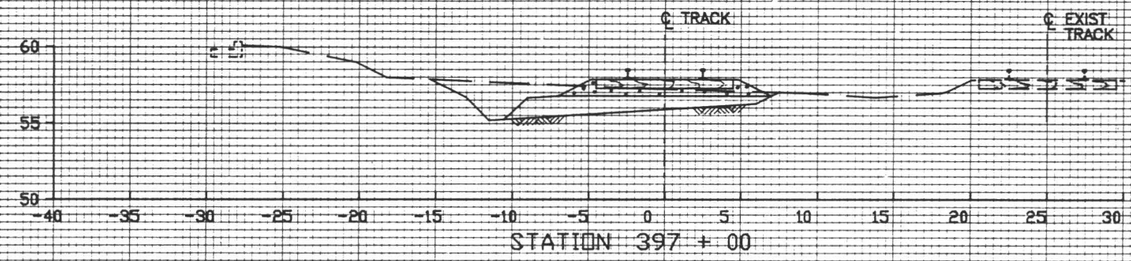
STATION 393 + 00



STATION 398 + 00



STATION 391 + 00

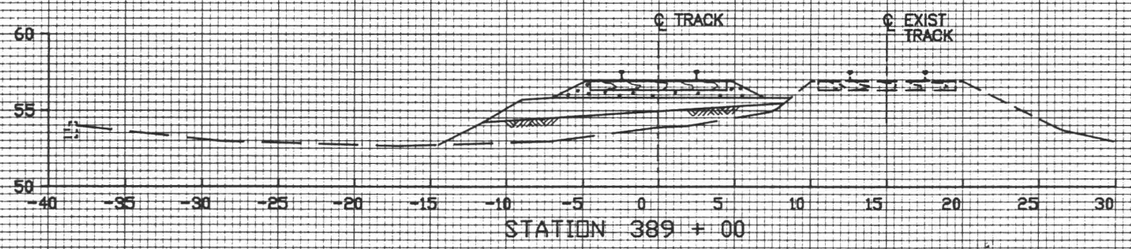


STATION 397 + 00

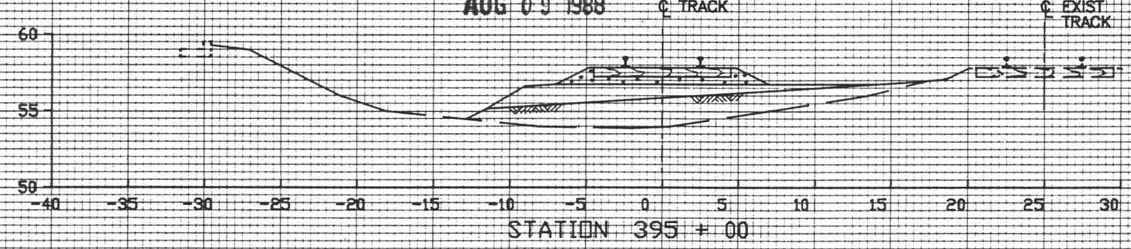
FINAL DESIGN

85% REVIEW

AUG 0 9 1988



STATION 389 + 00



STATION 395 + 00

5 0 5 10 15

1" = 5'-0" GRAPHIC SCALE

REV.	DATE	DESCRIPTION	BY SUB	APP.

Information confidential all plans, drawings, specifications, and or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Los Angeles County Transportation Commission

DESIGNED BY C SHIMUZU
DRAWN BY S STILES
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach – Los Angeles Rail Transit Project

Parsons Brinckerhoff
Parsons Brinckerhoff Quade & Douglas, Inc.

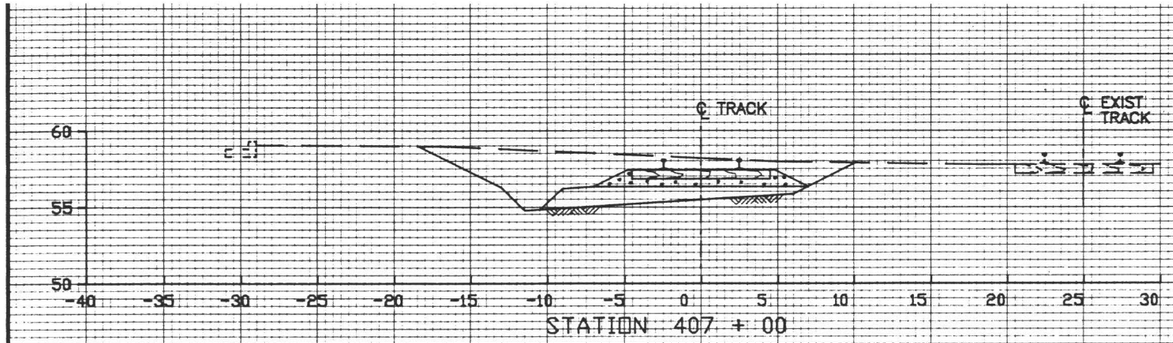
SUBMITTED:

TRANSCAL Transit Consultants of Southern California
A Joint Venture of: Parsons Brinckerhoff Quade & Douglas, Inc. – Daniel, Mann, Johnson & Mendenhall – Kaiser Engineers (California) Corp. – North Pacific Construction Management

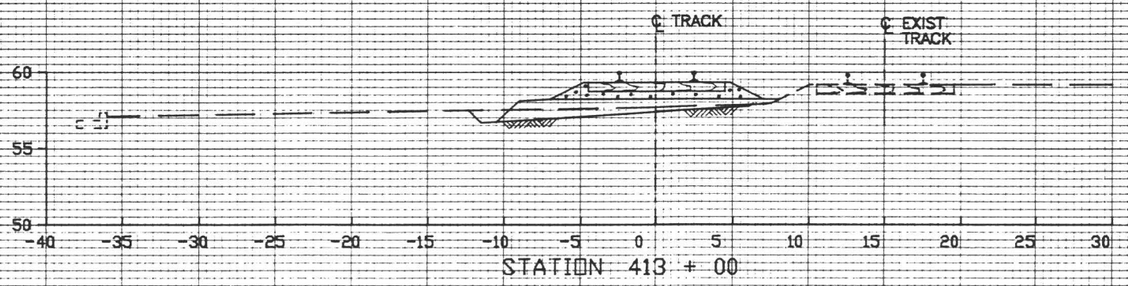
APPROVED:

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
RELOCATED WILMINGTON BRANCH
CROSS-SECTIONS SHEET 9 OF 22

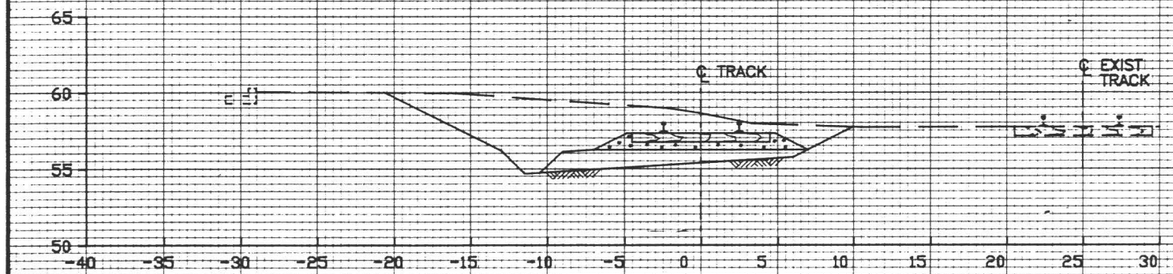
CONTRACT NO. R01-T01-C235
DRAWING NO. RR-0963
REV. SHEET NO. 55
SCALE 1" = 5'



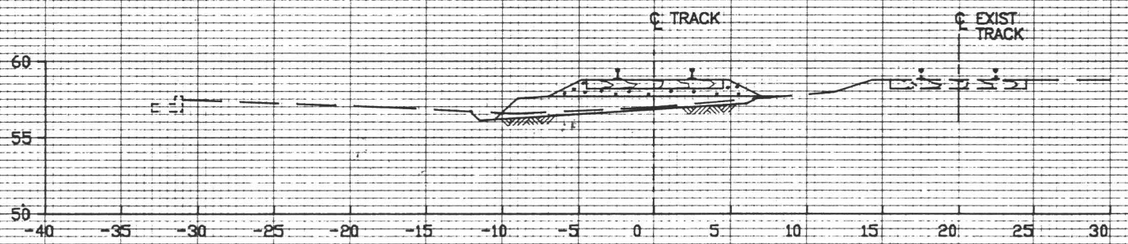
STATION 407 + 00



STATION 413 + 00



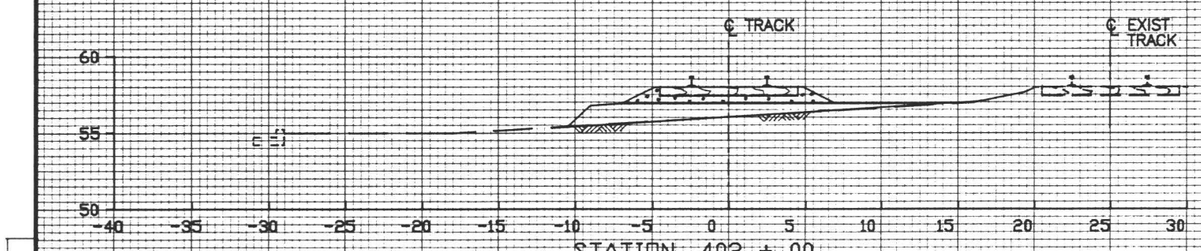
STATION 405 + 00



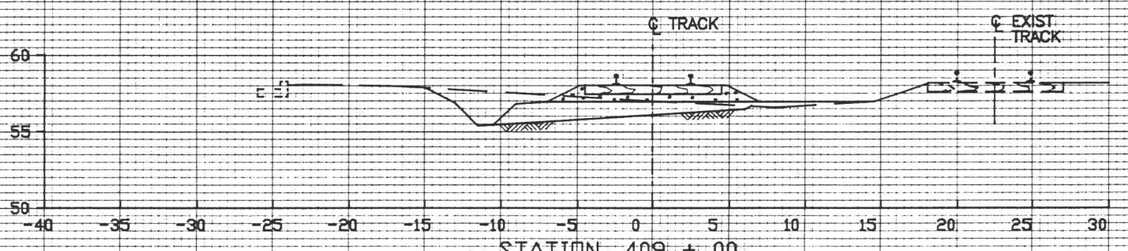
STATION 411 + 00

FINAL DESIGN **85% REVIEW**

AUG 0 9 1988



STATION 402 + 00



STATION 409 + 00

5 0 5 10 15

1" = 5'-0" GRAPHIC SCALE

REV.	DATE	DESCRIPTION	BY	SUB	APP.

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DESIGNED BY C SHIMUZU
DRAWN BY S STILES
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach – Los Angeles Rail Transit Project

Parsons Brinckerhoff
Parsons Brinckerhoff Quade & Douglas, Inc.

TRANSCAL
Transit Consultants of Southern California
A Joint Venture of: ■ Parsons Brinckerhoff Quade & Douglas, Inc. – ■ Daniel, Mann, Johnson & Mendenhall – ■ Kaiser Engineers (California) Corp. – ■ North Pacific Construction Management

SUBMITTED:

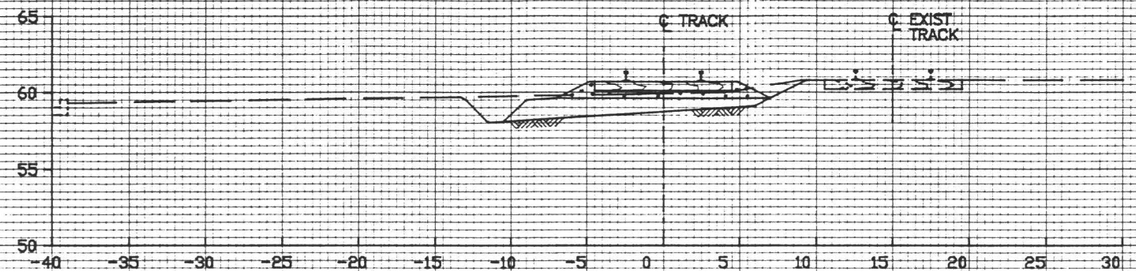
APPROVED:

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK

RELOCATED WILMINGTON BRANCH

CROSS–SECTIONS SHEET 10 OF 22

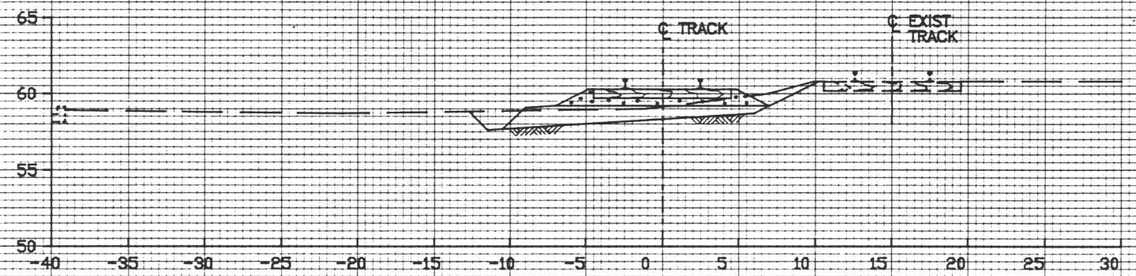
CONTRACT NO. R01–T01–C235
DRAWING NO. RR–0964
REV. SHEET NO. 56
SCALE 1" = 5'



STATION 419 + 00



STATION 425 + 00



STATION 417 + 00

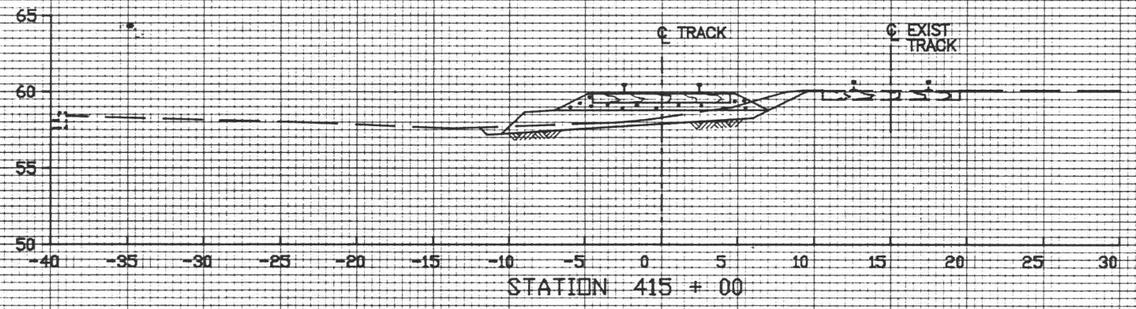


STATION 423 + 00

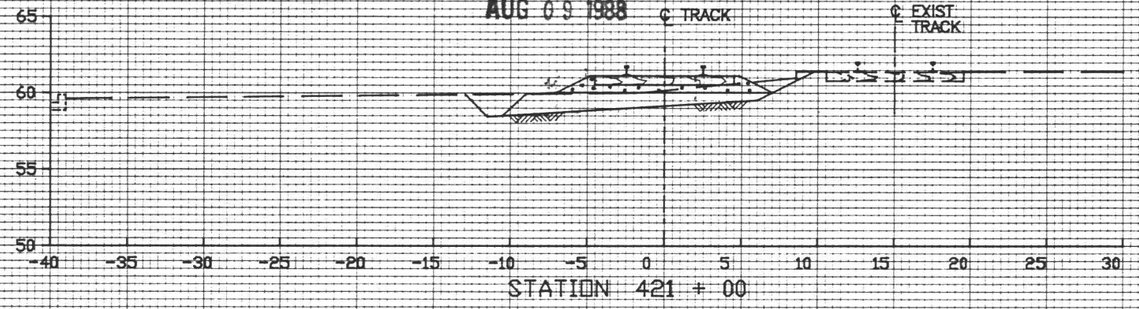
FINAL DESIGN

85% REVIEW

AUG 09 1988



STATION 415 + 00



STATION 421 + 00

5 0 5 10 15

1" = 5'-0" GRAPHIC SCALE

REV.	DATE	DESCRIPTION	BY	SUB	APP.

Information confidential all plans, drawings, specifications, and or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Los Angeles County Transportation Commission

DESIGNED BY C SHIMUZU
DRAWN BY S STILES
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach – Los Angeles Rail Transit Project

Parsons Brinckerhoff
Parsons Brinckerhoff Quade & Douglas, Inc.

SUBMITTED:

TRANSIT
Transit Consultants of Southern California
A Joint Venture of: Parsons Brinckerhoff Quade & Douglas, Inc. – Daniel, Mann, Johnson & Mendenhall – Kaiser Engineers (California) Corp. – North Pacific Construction Management

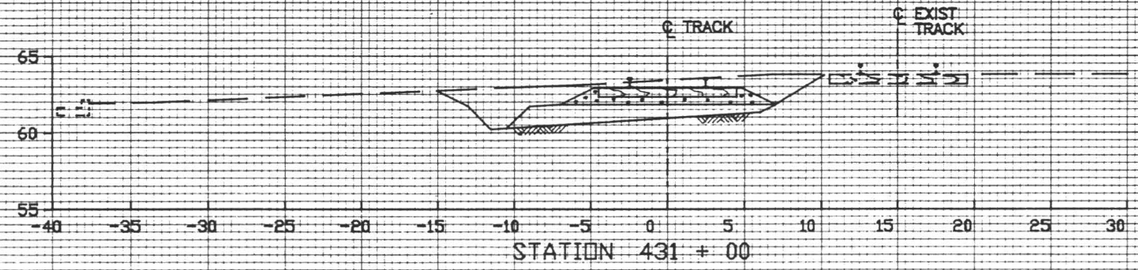
APPROVED:

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK

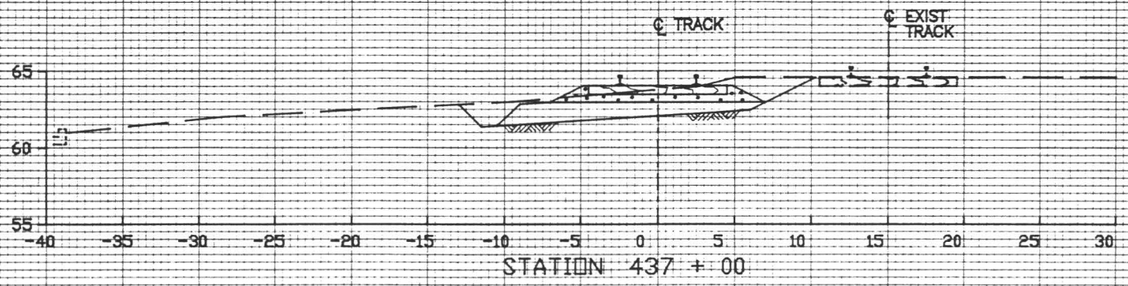
RELOCATED WILMINGTON BRANCH

CROSS–SECTIONS SHEET 11 OF 22

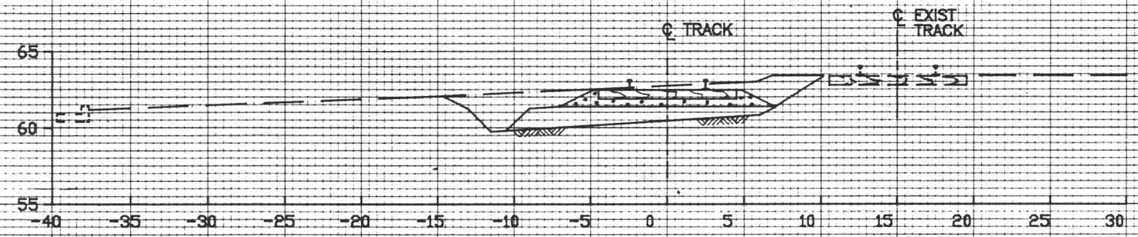
CONTRACT NO. R01–T01–C235
DRAWING NO. RR–0965
REV. SHEET NO. 57
SCALE 1" = 5'



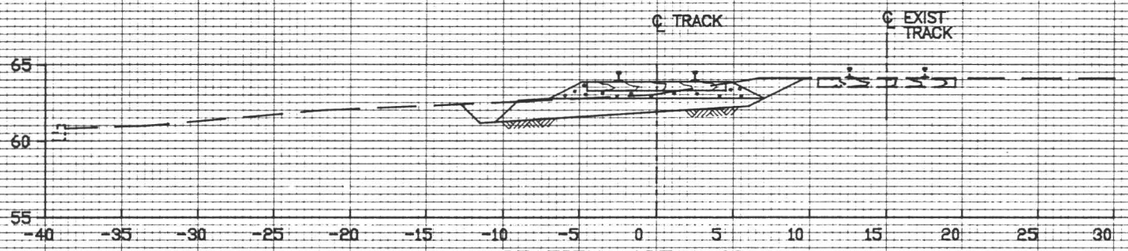
STATION 431 + 00



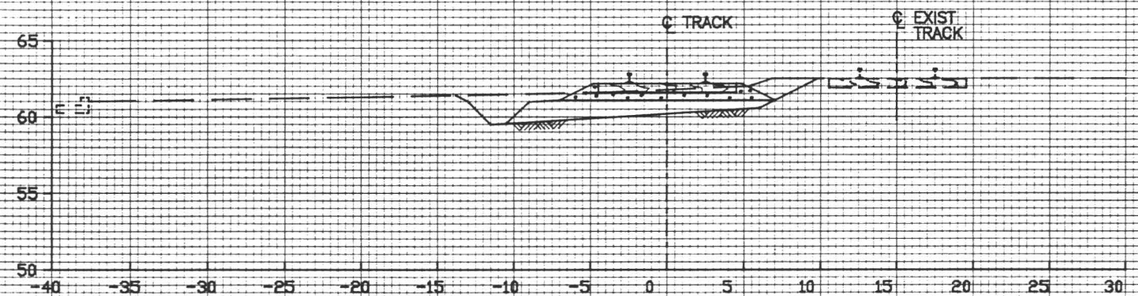
STATION 437 + 00



STATION 429 + 00



STATION 435 + 00

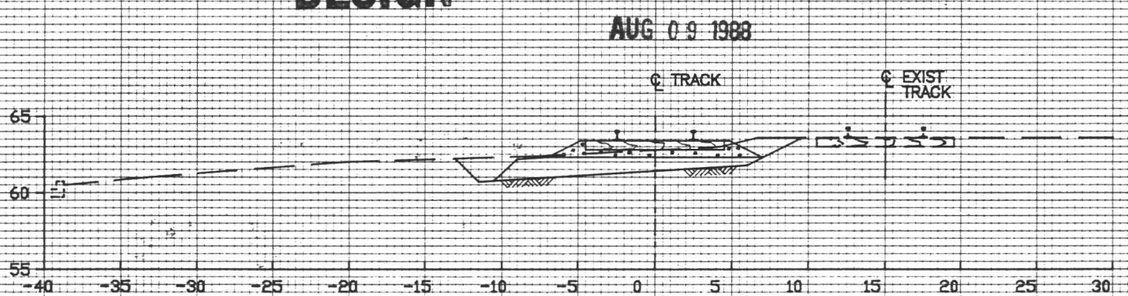


STATION 427 + 00

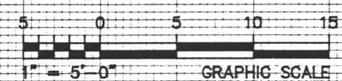
FINAL DESIGN

85% REVIEW

AUG 0 9 1988



STATION 433 + 00



REV.	DATE	DESCRIPTION	BY	APP.

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DESIGNED BY C SHIMUZU
DRAWN BY S STILES
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

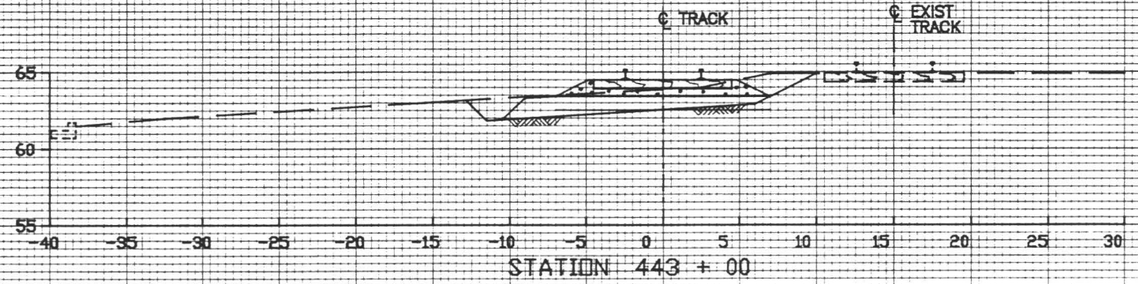
LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach – Los Angeles Rail Transit Project

Parsons Brinckerhoff
Parsons Brinckerhoff Quade & Douglas, Inc.
SUBMITTED:

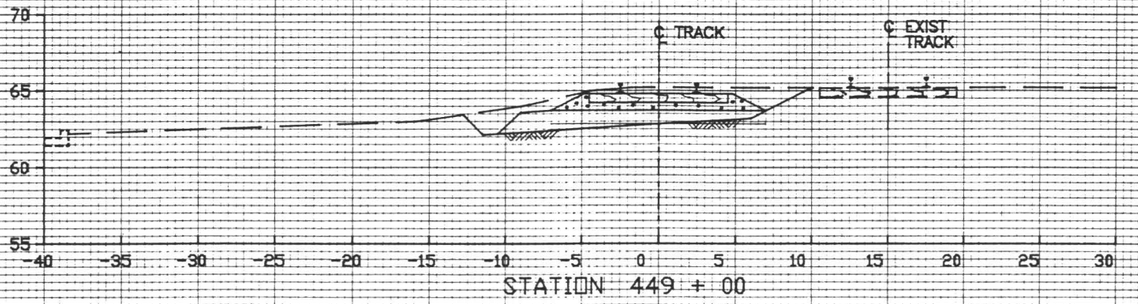
TRANSCAL Transit Consultants of Southern California
A Joint Venture of: Parsons Brinckerhoff Quade & Douglas, Inc. – Daniel, Mann, Johnson & Mendenhall – Kaiser Engineers (California) Corp. – North Pacific Construction Management
APPROVED:

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
RELOCATED WILMINGTON BRANCH
CROSS–SECTIONS SHEET 12 OF 22

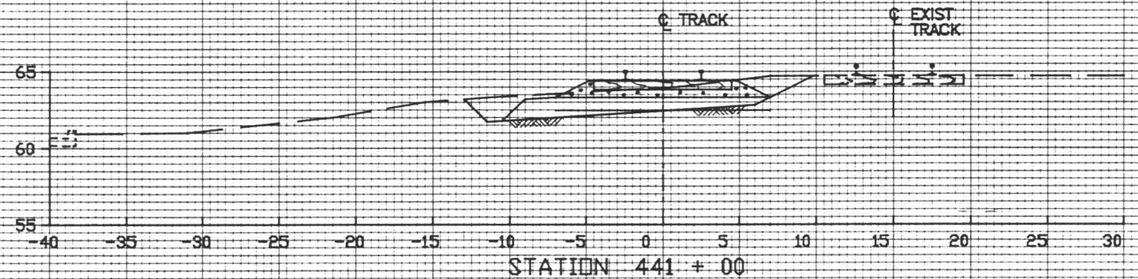
CONTRACT NO. R01–T01–C235
DRAWING NO. RR–0966
REV. SHEET NO. 58
SCALE 1" = 5'



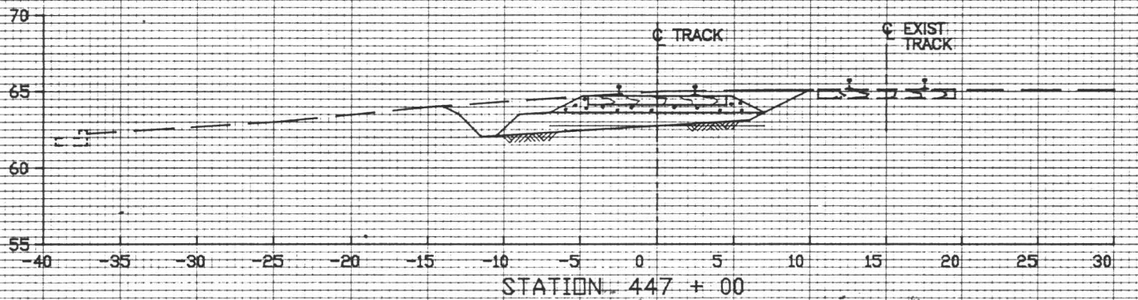
STATION 443 + 00



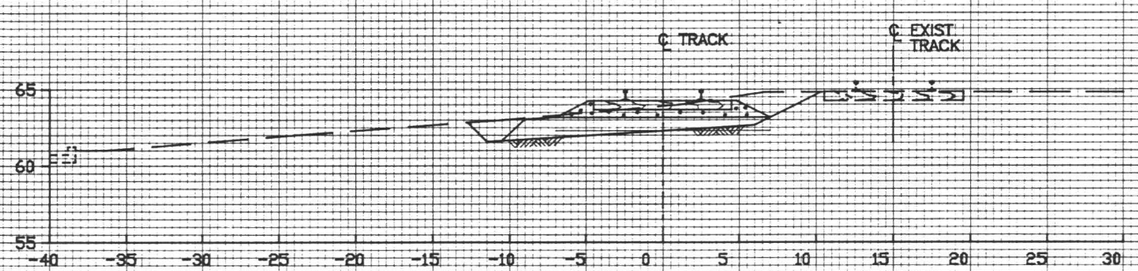
STATION 449 + 00



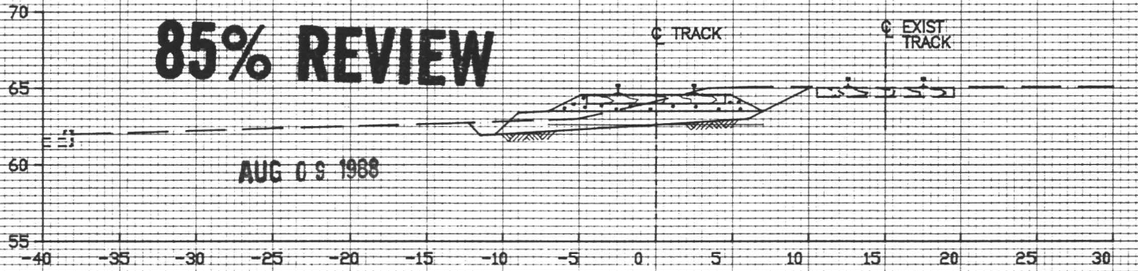
STATION 441 + 00



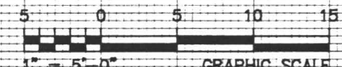
STATION 447 + 00



STATION 439 + 00



STATION 445 + 00



FINAL DESIGN

85% REVIEW

AUG 0 5 1988

REV.	DATE	DESCRIPTION	BY	SUB	APP.

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DESIGNED BY C SHIMUZU
DRAWN BY S STILES
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach – Los Angeles Rail Transit Project

Parsons Brinckerhoff
Parsons Brinckerhoff Quade & Douglas, Inc.

SUBMITTED:

TRANSCAL Transit Consultants of Southern California
A Joint Venture of: Parsons Brinckerhoff Quade & Douglas, Inc. – Daniel, Mann, Johnson & Mendenhall – Kaiser Engineers (California) Corp. – North Pacific Construction Management

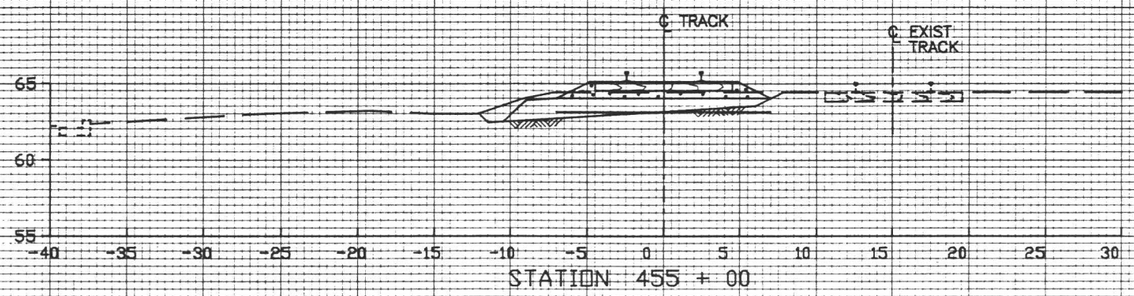
APPROVED:

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK

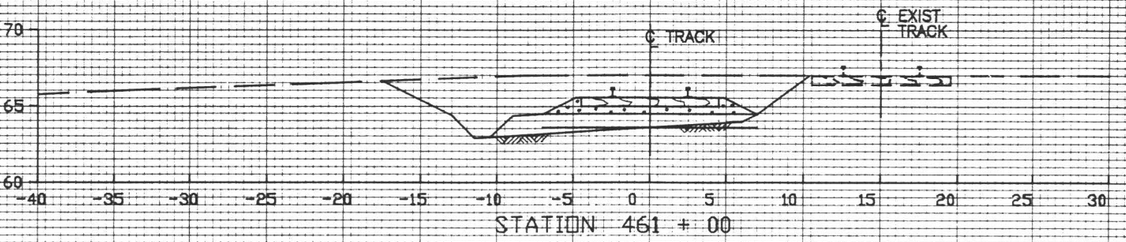
RELOCATED WILMINGTON BRANCH

CROSS–SECTIONS SHEET 13 OF 22

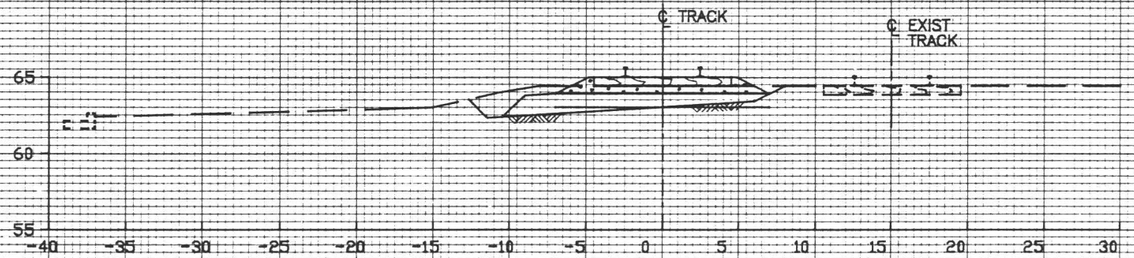
CONTRACT NO. R01–T01–C235
DRAWING NO. RR–0967
REV. SHEET NO. 59
SCALE 1" = 5'



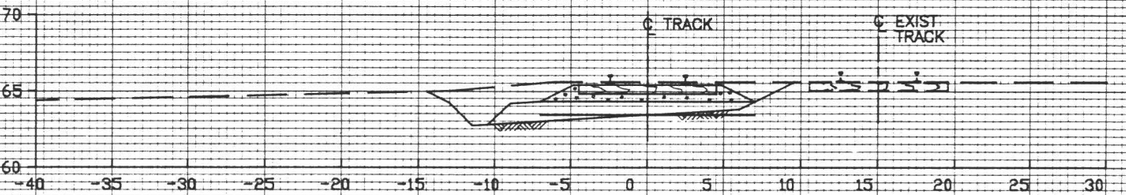
STATION 455 + 00



STATION 461 + 00



STATION 453 + 00

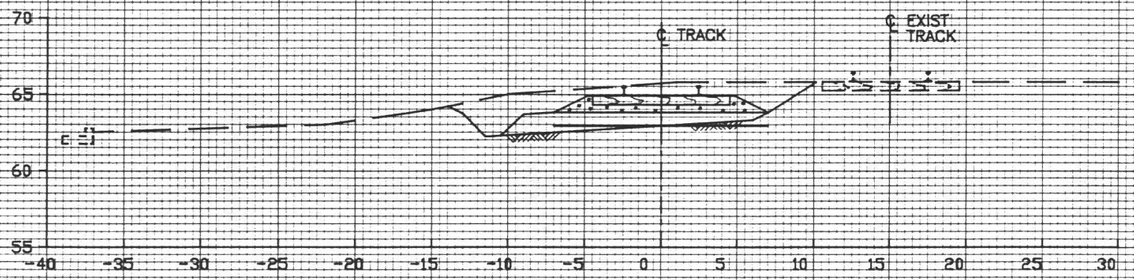


STATION 459 + 00

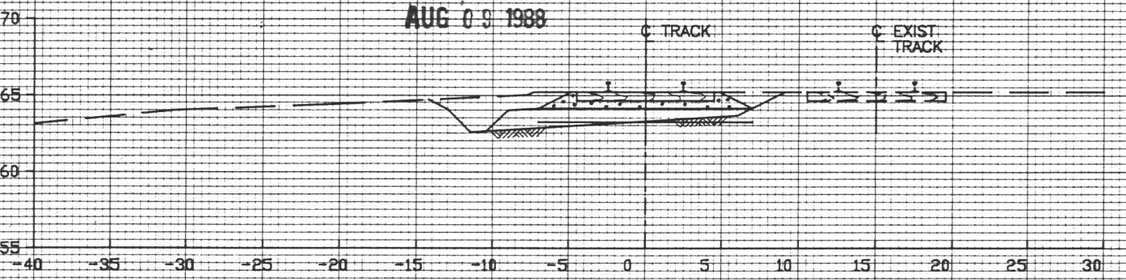
FINAL DESIGN

85% REVIEW

AUG 0 8 1988



STATION 451 + 00



STATION 457 + 00



1" = 5'-0" GRAPHIC SCALE

REV.	DATE	DESCRIPTION	BY	SUB	APP.

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DRAWN BY S STILES
CHECKED BY
APPROVED BY
DATE 4 AUG 88

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The Long Beach – Los Angeles Rail Transit Project

Parsons Brinckerhoff
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SUBMITTED:

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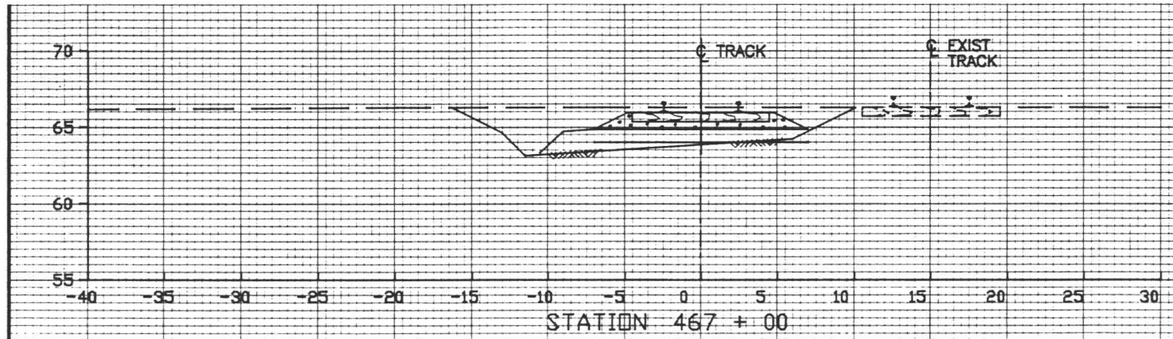
A Joint Venture of: ■ Parsons Brinckerhoff Quade & Douglas, Inc. – ■ Daniel, Mann, Johnson & Mendenhall – ■ Kaiser Engineers (California) Corp. – ■ North Pacific Construction Management

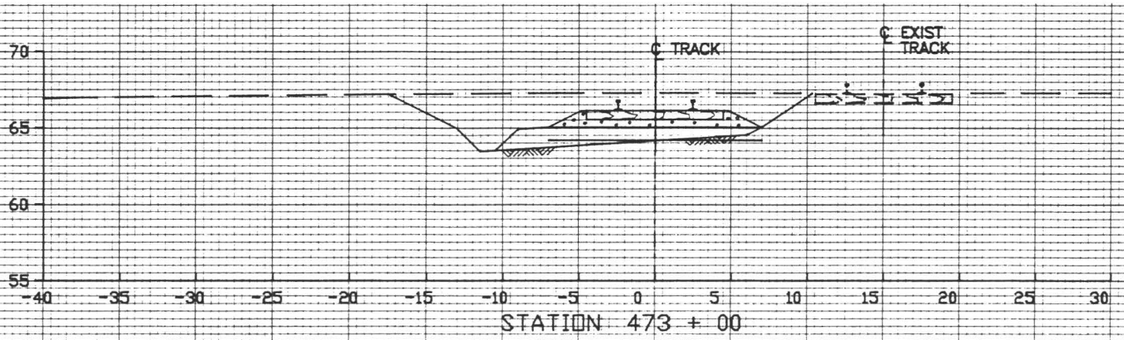
APPROVED:

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
RELOCATED WILMINGTON BRANCH
CROSS-SECTIONS SHEET 14 OF 22

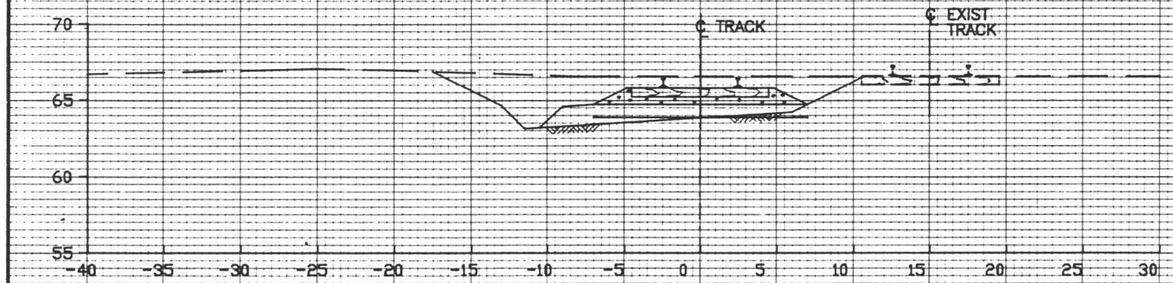
CONTRACT NO. R01-T01-C235
DRAWING NO. RR-0968
REV. | SHEET NO. 60
SCALE 1" = 5'



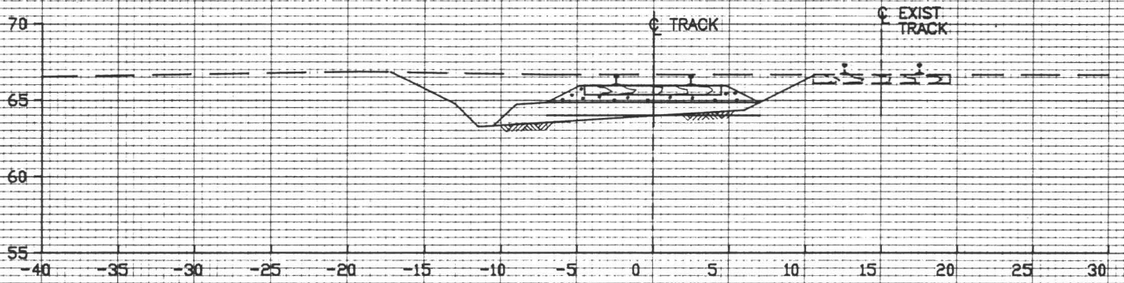
STATION 467 + 00



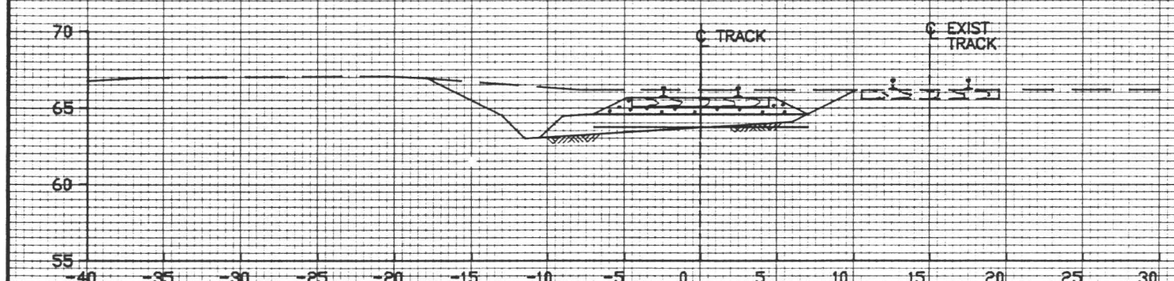
STATION 473 + 00



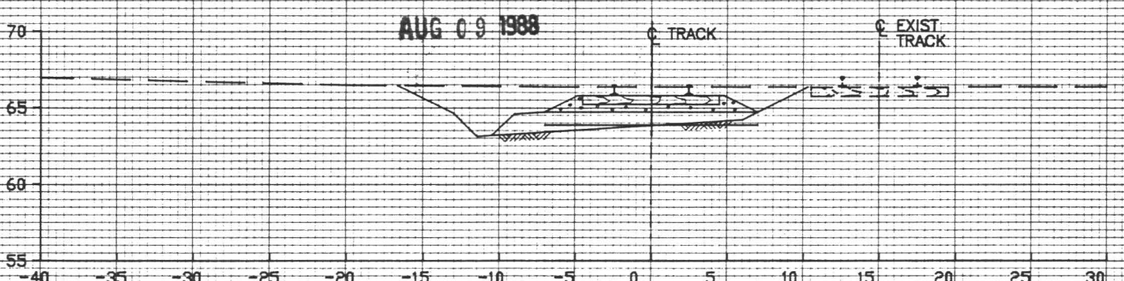
STATION 465 + 00



STATION 471 + 00



STATION 463 + 00

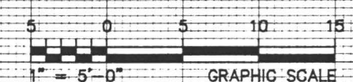


STATION 469 + 00

FINAL DESIGN

85% REVIEW

AUG 09 1988



REV.	DATE	DESCRIPTION	BY	SUB	APP.

information confidential all plans, drawings, specifications, and or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Los Angeles County Transportation Commission

DESIGNED BY C SHIMUZU
DRAWN BY S STILES
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach – Los Angeles Rail Transit Project

Parsons Brinckerhoff
Parsons Brinckerhoff Quade & Douglas, Inc.

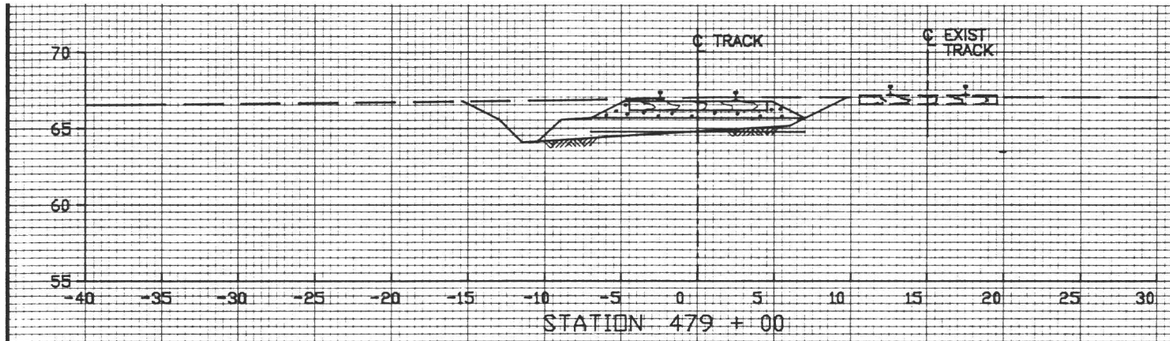
SUBMITTED:

TRANSCAL Transit Consultants of Southern California
A Joint Venture of: ■ Parsons Brinckerhoff Quade & Douglas, Inc. – ■ Daniel, Mann, Johnson & Mendenhall – ■ Kaiser Engineers (California) Corp. – ■ North Pacific Construction Management

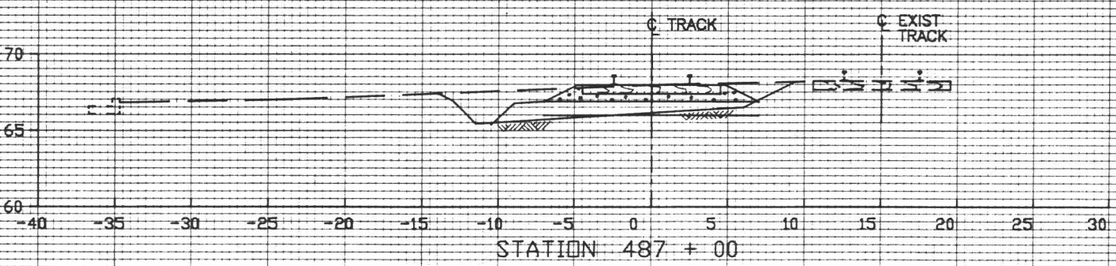
APPROVED:

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
RELOCATED WILMINGTON BRANCH
CROSS-SECTIONS SHEET 15 OF 22

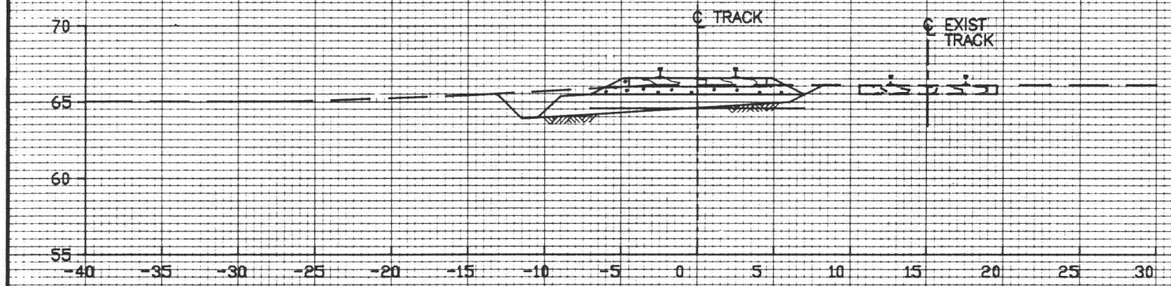
CONTRACT NO. R01-T01-C235
DRAWING NO. RR-0969
REV. SHEET NO. 61
SCALE 1" = 5'



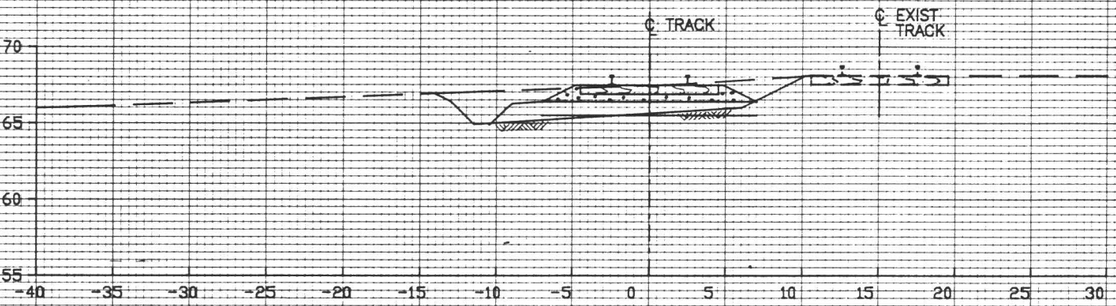
STATION 479 + 00



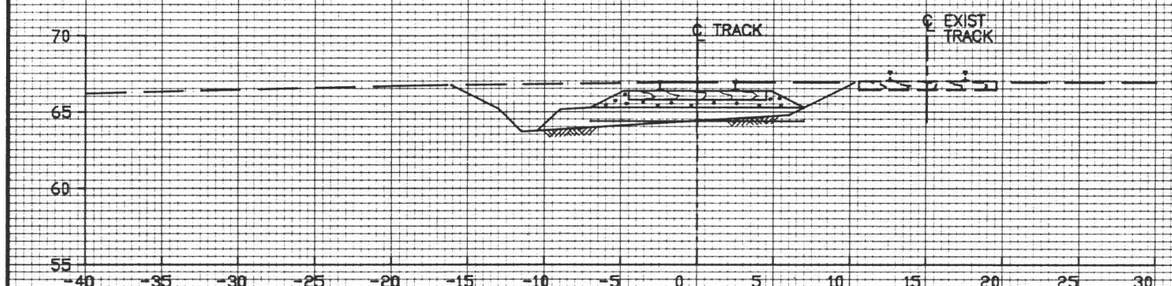
STATION 487 + 00



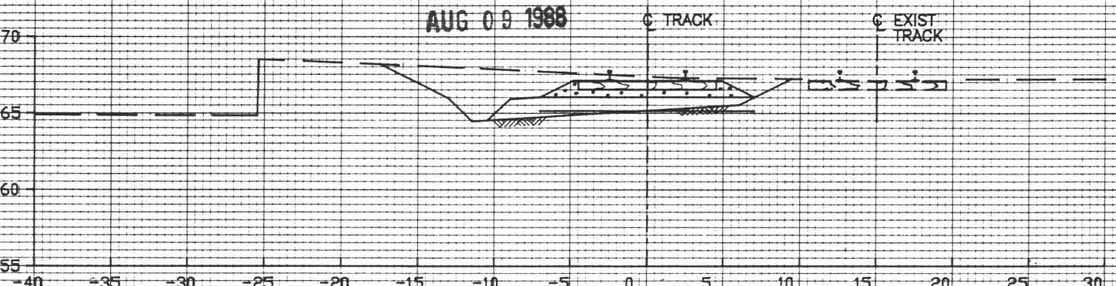
STATION 477 + 00



STATION 484 + 00



STATION 475 + 00

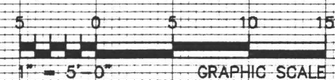


STATION 481 + 50

FINAL DESIGN

85% REVIEW

AUG 09 1988



REV.	DATE	DESCRIPTION	BY	SUB	APP.

Information confidential all plans, drawings, specifications, and or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Los Angeles County Transportation Commission

DESIGNED BY C SHIMUZU
DRAWN BY S STILES
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach – Los Angeles Rail Transit Project

Parsons Brinckerhoff
Parsons Brinckerhoff Quade & Douglas, Inc.

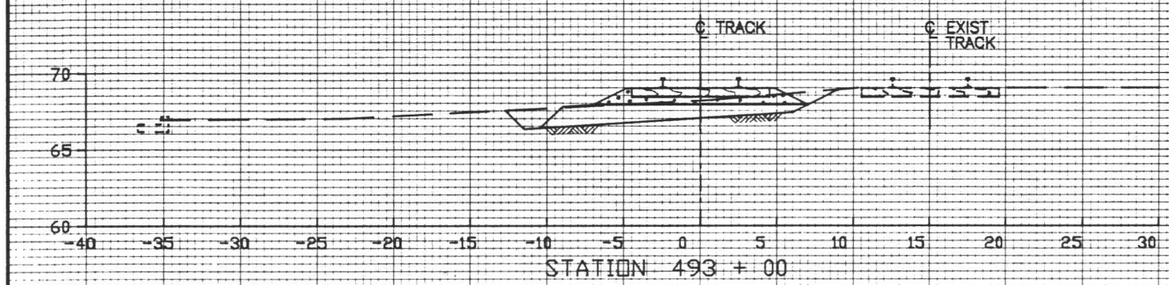
TRANSCAL Transit Consultants of Southern California
A Joint Venture of: ■ Parsons Brinckerhoff Quade & Douglas, Inc. – ■ Daniel, Mann, Johnson & Mendenhall – ■ Kaiser Engineers (California) Corp. – ■ North Pacific Construction Management

SUBMITTED:

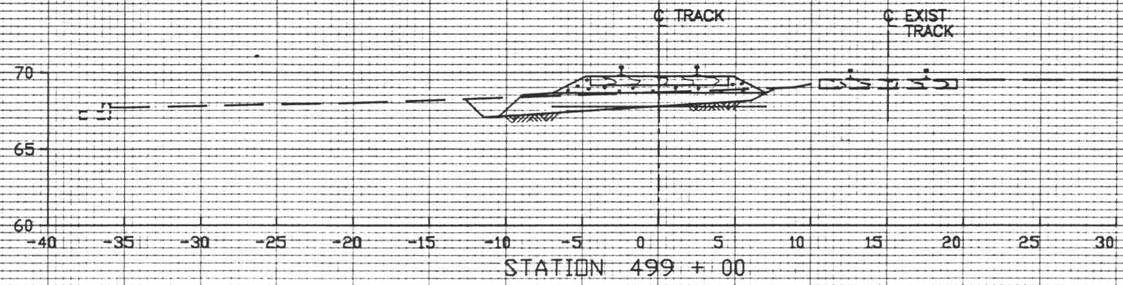
APPROVED:

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
RELOCATED WILMINGTON BRANCH
CROSS–SECTIONS SHEET 16 OF 22

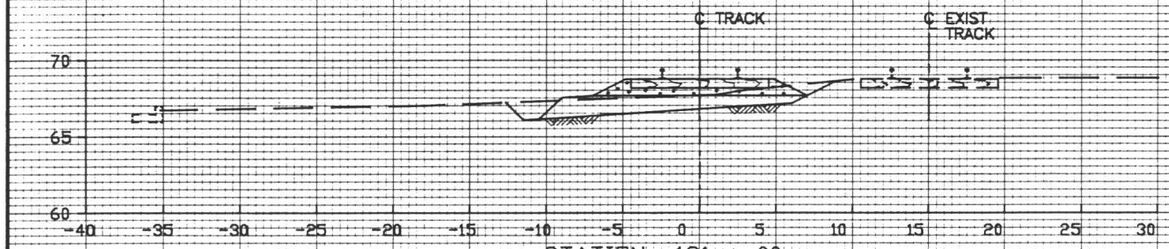
CONTRACT NO. R01–T01–C235
DRAWING NO. RR–0970
REV. SHEET NO. 62
SCALE 1" = 5'



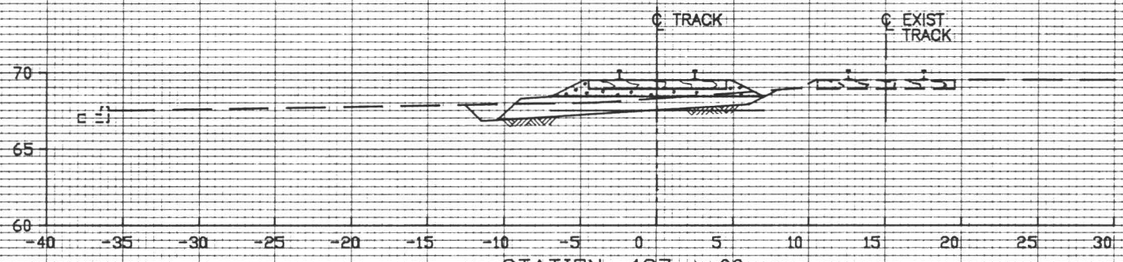
STATION 493 + 00



STATION 499 + 00



STATION 491 + 00

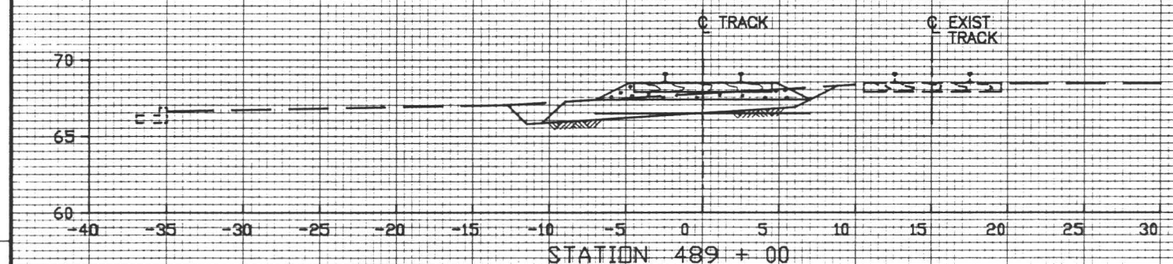


STATION 497 + 00

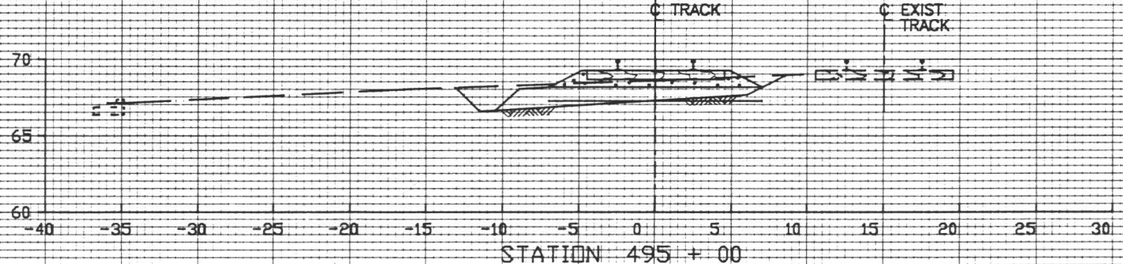
FINAL DESIGN

85% REVIEW

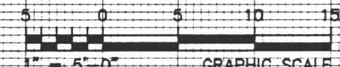
AUG 0 9 1988



STATION 489 + 00



STATION 495 + 00



1" = 5'-0" GRAPHIC SCALE

REV.	DATE	DESCRIPTION	BY	SUB	APP.

Information confidential all plans, drawings, specifications, and or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Los Angeles County Transportation Commission

DESIGNED BY C SHIMUZU
DRAWN BY S STILES
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach – Los Angeles Rail Transit Project

Parsons Brinckerhoff
Parsons Brinckerhoff Quade & Douglas, Inc.

SUBMITTED:

TRANSCAL Transit Consultants of Southern California
A Joint Venture of: Parsons Brinckerhoff Quade & Douglas, Inc. – Daniel, Mann, Johnson & Mendenhall – Kaiser Engineers (California) Corp. – North Pacific Construction Management

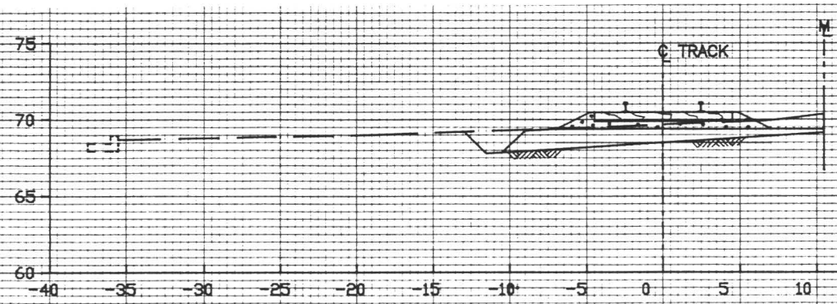
APPROVED:

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK

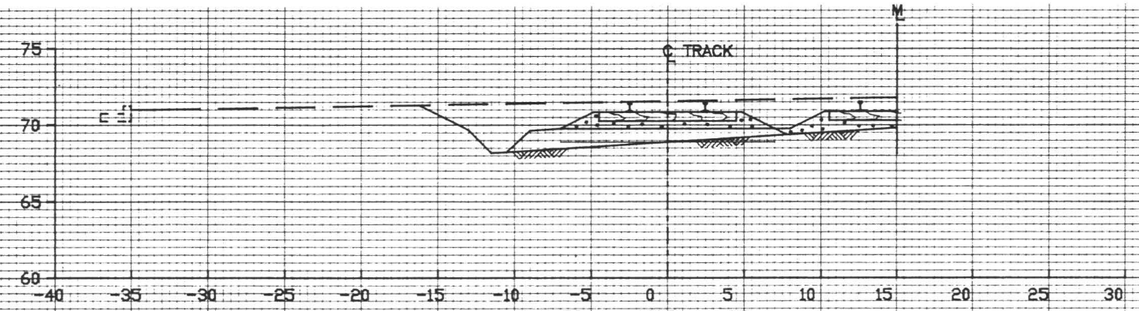
RELOCATED WILMINGTON BRANCH

CROSS–SECTIONS SHEET 17 OF 22

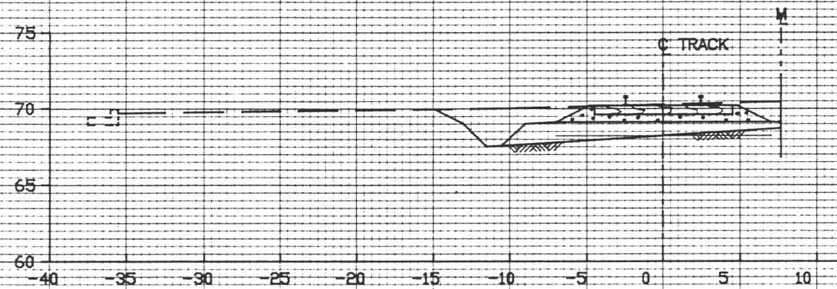
CONTRACT NO. R01–T01–C235
DRAWING NO. RR–0971
REV. SHEET NO. 63
SCALE 1" = 5'



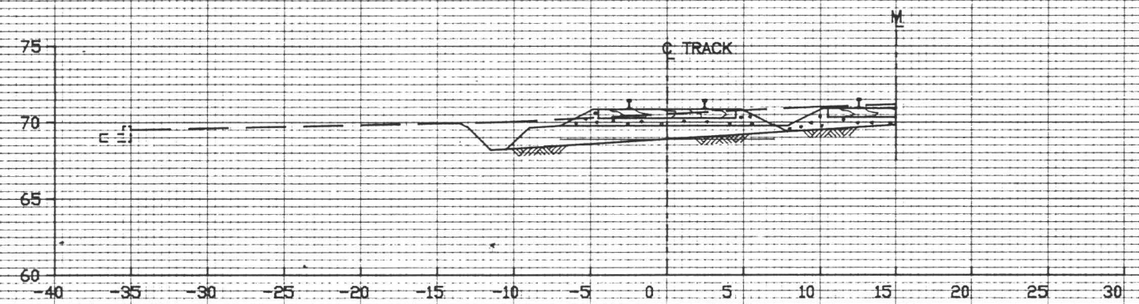
STATION 506 + 00



STATION 512 + 00



STATION 503 + 53.05

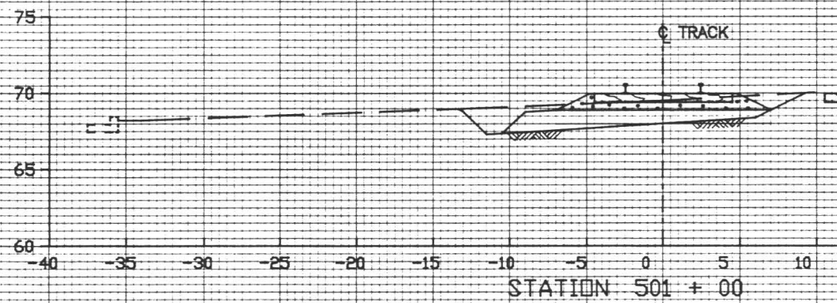


STATION 510 + 00

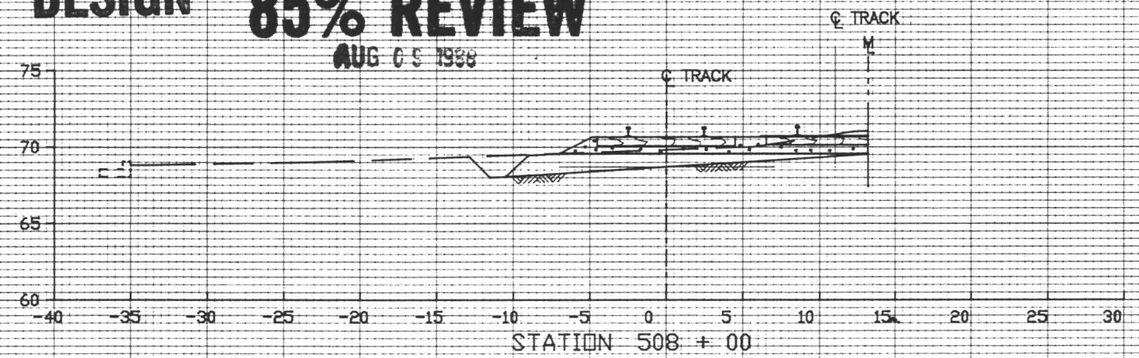
FINAL DESIGN

85% REVIEW

AUG 0 5 1988



STATION 501 + 00



STATION 508 + 00

5 0 5 10 15

1" = 5'-0" GRAPHIC SCALE

REV.	DATE	DESCRIPTION	BY	SUB	APP.

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DESIGNED BY C SHIMUZU
DRAWN BY S STILES
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach – Los Angeles Rail Transit Project

Parsons Brinckerhoff
Parsons Brinckerhoff Quade & Douglas, Inc.

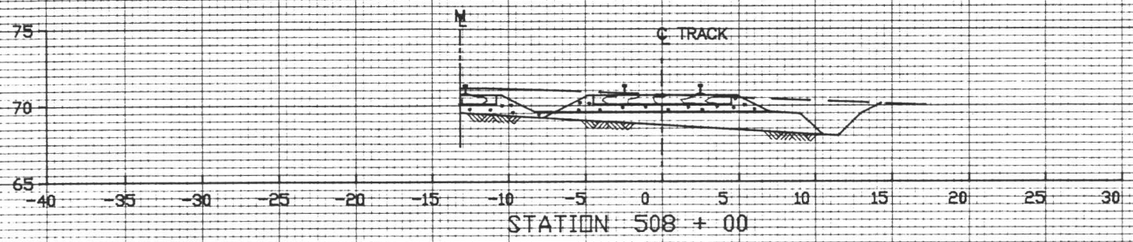
SUBMITTED:

TRANSCAL Transit Consultants of Southern California
A Joint Venture of: ■ Parsons Brinckerhoff Quade & Douglas, Inc. – ■ Daniel, Mann, Johnson & Mendenhall – ■ Kaiser Engineers (California) Corp. – ■ North Pacific Construction Management

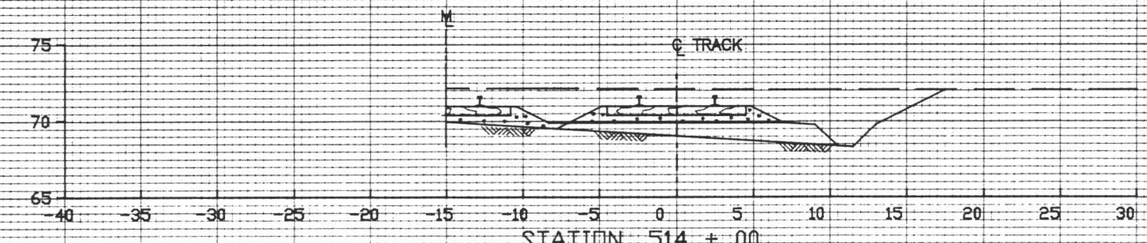
APPROVED:

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
RELOCATED WILMINGTON BRANCH
CROSS-SECTIONS SHEET 18 OF 22

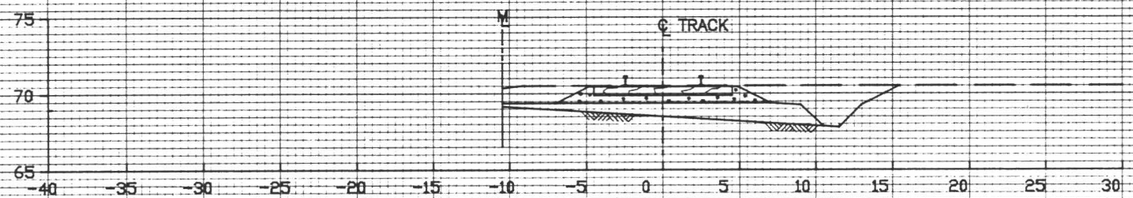
CONTRACT NO. R01-T01-C235
DRAWING NO. RR-0972
REV. SHEET NO. 64
SCALE 1" = 5'



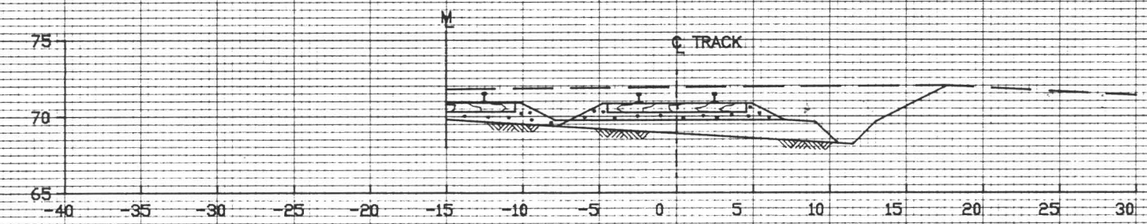
STATION 508 + 00



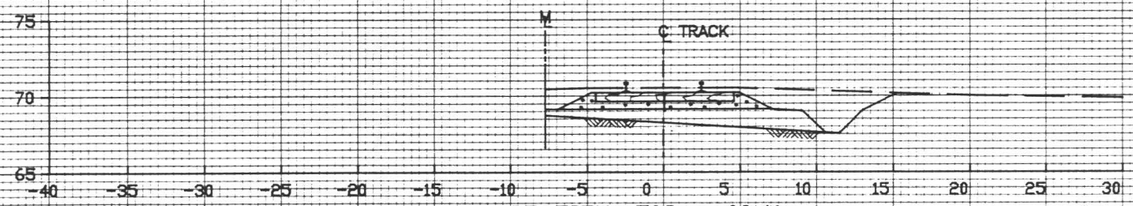
STATION 514 + 00



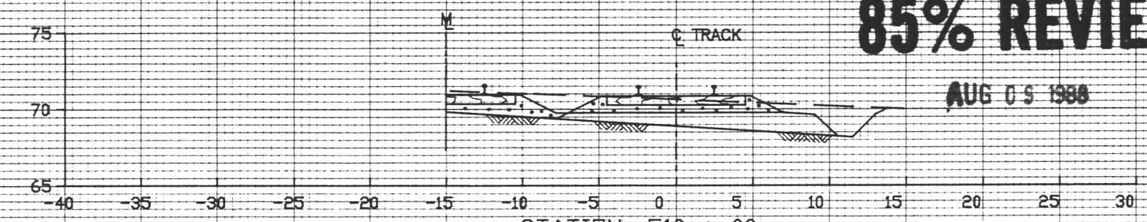
STATION 506 + 00



STATION 512 + 00



STATION 503 + 60.41



STATION 510 + 00

5 0 5 10 15

1" = 5'-0" GRAPHIC SCALE

FINAL DESIGN

85% REVIEW

AUG 0 5 1988

REV.	DATE	DESCRIPTION	BY	SUB	APP.

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DRAWN BY S STILES
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

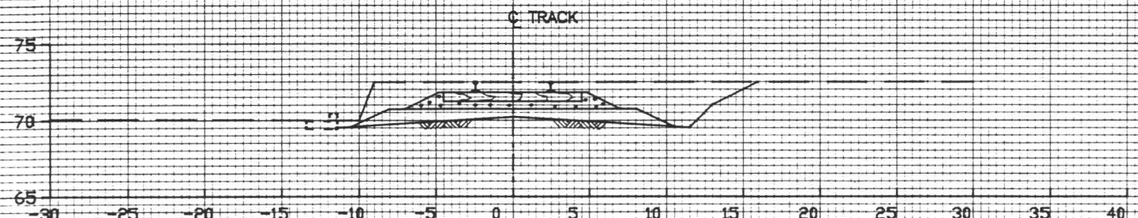
LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach – Los Angeles Rail Transit Project

Parsons Brinckerhoff
Parsons Brinckerhoff Quade & Douglas, Inc.
SUBMITTED:

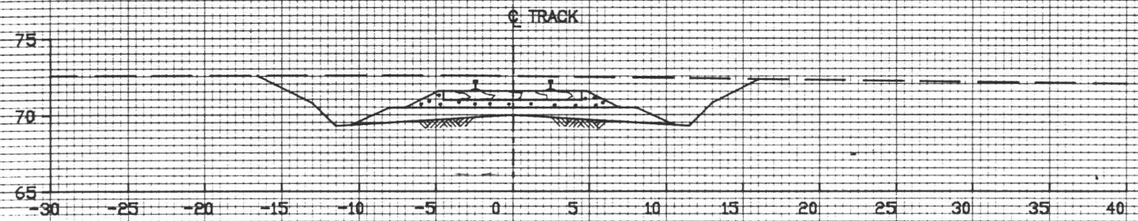
TRANSCAL Transit Consultants of Southern California
A Joint Venture of: Parsons Brinckerhoff Quade & Douglas, Inc. – Daniel, Mann, Johnson & Mendenhall – Kaiser Engineers (California) Corp. – North Pacific Construction Management
APPROVED:

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
RELOCATED SAN PEDRO BRANCH
CROSS-SECTIONS SHEET 19 OF 22

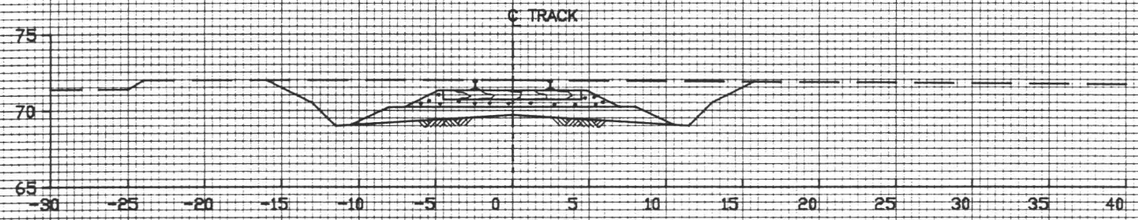
CONTRACT NO. R01-T01-C235
DRAWING NO. RR-0973
REV. SHEET NO. 65
SCALE 1" = 5'



STATION 520 + 53.15



STATION 518 + 00



STATION 516 + 00

FINAL DESIGN

85% REVIEW

AUG 0 9 1988

5 0 5 10 15

1" = 5'-0" GRAPHIC SCALE

REV.	DATE	DESCRIPTION	BY	APP.

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DESIGNED BY C SHIMUZU
DRAWN BY S STILES
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach – Los Angeles Rail Transit Project

Parsons Brinckerhoff
Parsons Brinckerhoff Quade & Douglas, Inc.

SUBMITTED:

TRANSCAL Transit Consultants of Southern California
A Joint Venture of: Parsons Brinckerhoff Quade & Douglas, Inc. – Daniel, Mann, Johnson & Mendenhall – Kaiser Engineers (California) Corp. – North Pacific Construction Management

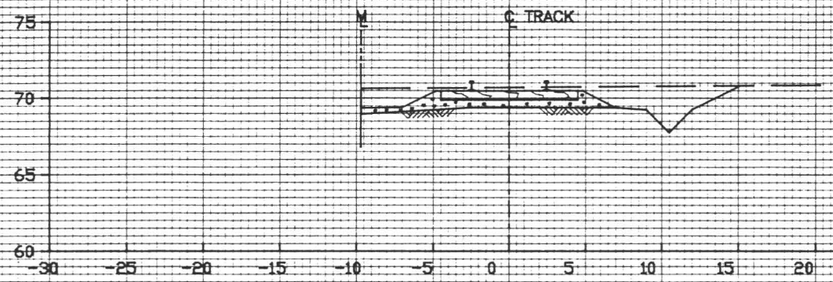
APPROVED:

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK

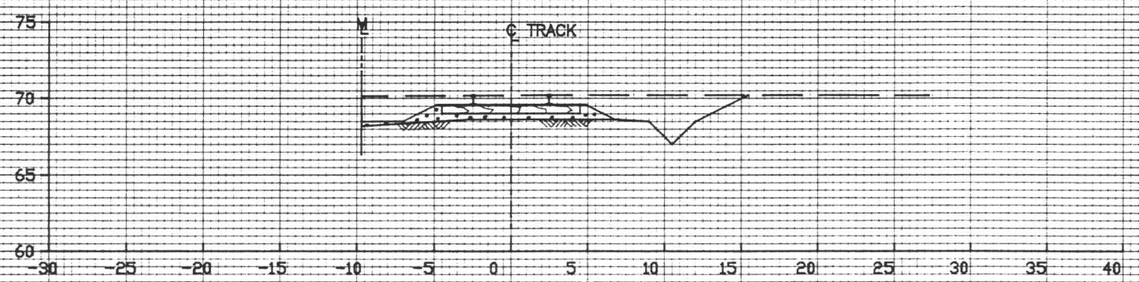
RELOCATED SAN PEDRO BRANCH

CROSS–SECTIONS SHEET 20 OF 22

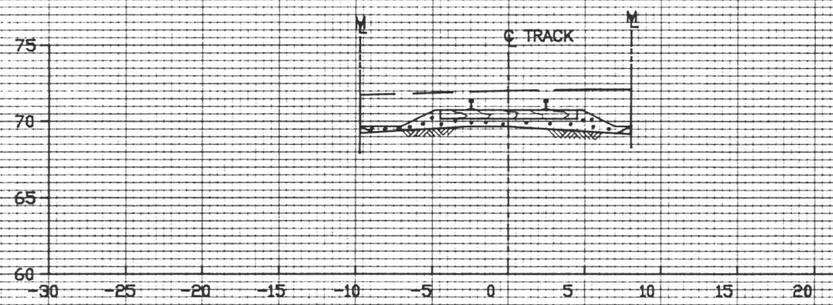
CONTRACT NO. R01–T01–C235
DRAWING NO. RR–0974
REV. SHEET NO. 66
SCALE 1" = 5'



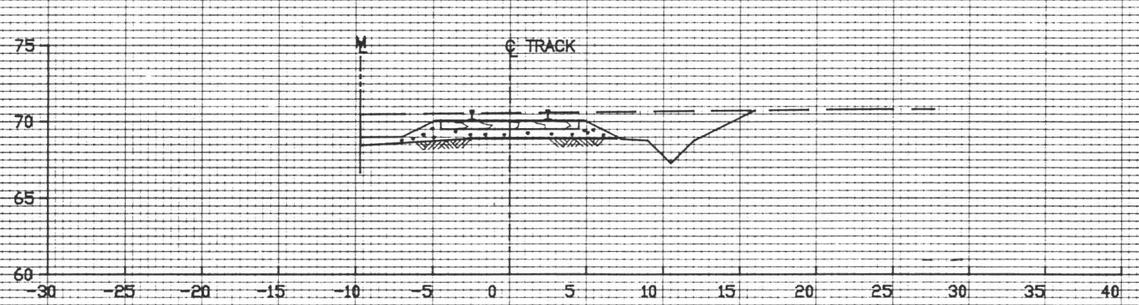
STATION 515 + 90



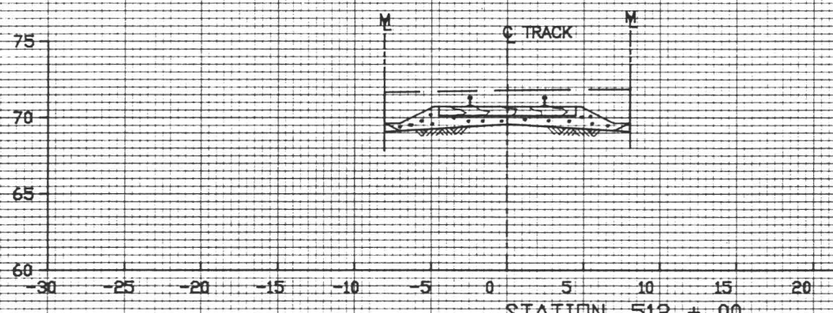
STATION 521 + 79



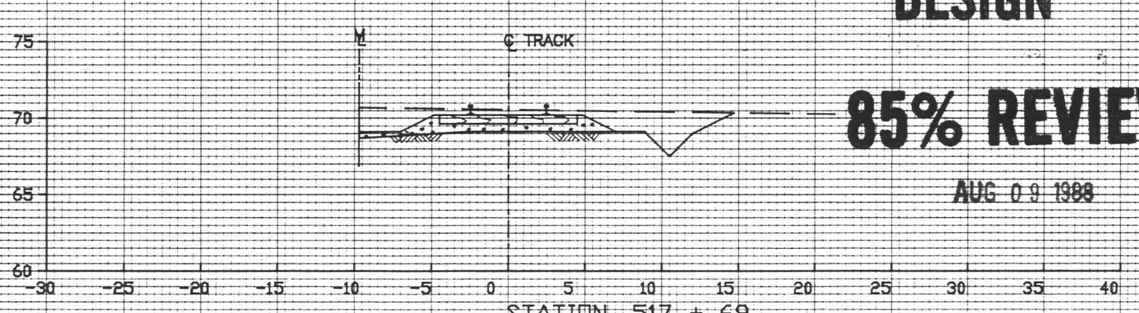
STATION 513 + 95



STATION 519 + 74



STATION 512 + 00

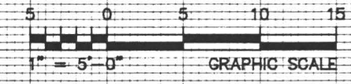


STATION 517 + 69

FINAL DESIGN

85% REVIEW

AUG 0 9 1988



REV.	DATE	DESCRIPTION	BY	APP.

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DESIGNED BY	C SHIMUZU
DRAWN BY	S STILES
CHECKED BY	
APPROVED BY	
DATE	4 AUG 88

85 % SUBMITTAL

LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach – Los Angeles Rail Transit Project

Parsons Brinckerhoff
Parsons Brinckerhoff Quade & Douglas, Inc.

SUBMITTED:

TRANSFAIL Transit Consultants of Southern California
A Joint Venture of: ■ Parsons Brinckerhoff Quade & Douglas, Inc. – ■ Daniel, Mann, Johnson & Mendenhall – ■ Kaiser Engineers (California) Corp. – ■ North Pacific Construction Management

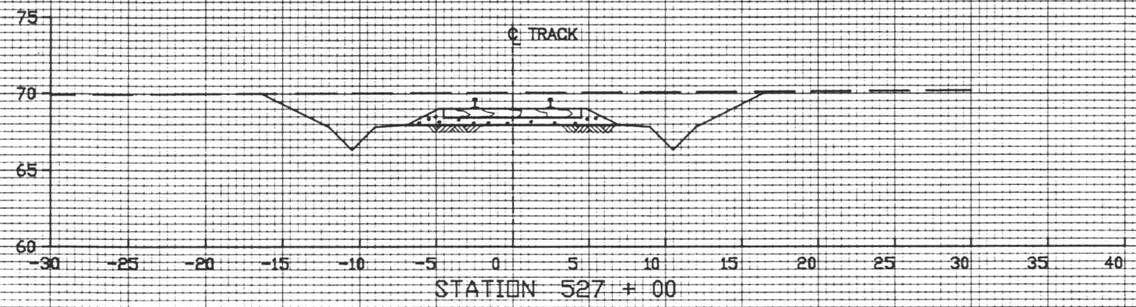
APPROVED:

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK

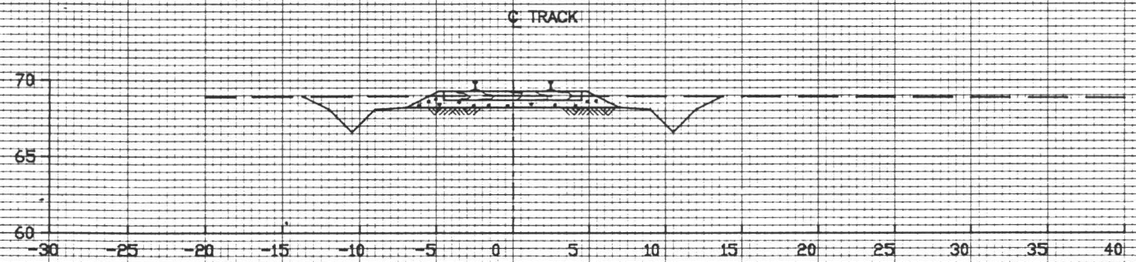
OWENS–CORNING SPUR

CROSS–SECTIONS SHEET 21 OF 22

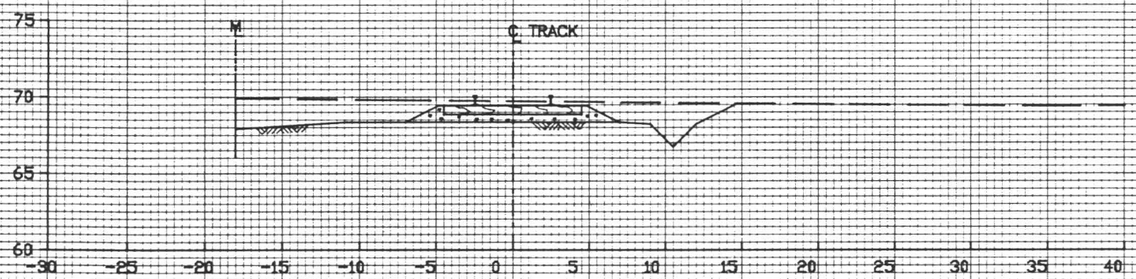
CONTRACT NO. R01–T01–C235
DRAWING NO. RR–0975
REV. SHEET NO. G7
SCALE 1" = 5'



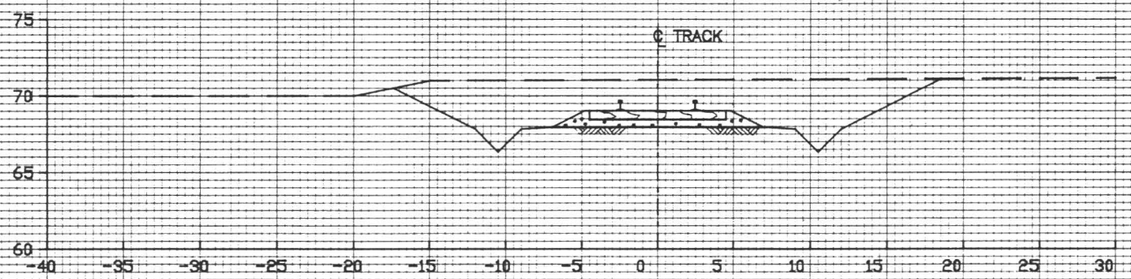
STATION 527 + 00



STATION 525 + 00



STATION 523 + 83



STATION 528 + 65.63

5 0 5 10 15

1" = 5'-0" GRAPHIC SCALE

FINAL DESIGN

85% REVIEW

AUG 09 1988

REV.	DATE	DESCRIPTION	BY	SUB	APP.

information confidential all plans, drawings, specifications, and or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Los Angeles County Transportation Commission

DESIGNED BY C SHIMUZU
DRAWN BY S STILES
CHECKED BY
APPROVED BY
DATE 4 AUG 88

85 % SUBMITTAL

LACTC LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach – Los Angeles Rail Transit Project

Parsons Brinckerhoff
Parsons Brinckerhoff Quade & Douglas, Inc.

SUBMITTED:

TRANSCAL Transit Consultants of Southern California
A Joint Venture of: Parsons Brinckerhoff Quade & Douglas, Inc. – Daniel, Mann, Johnson & Mendenhall – Kaiser Engineers (California) Corp. – North Pacific Construction Management

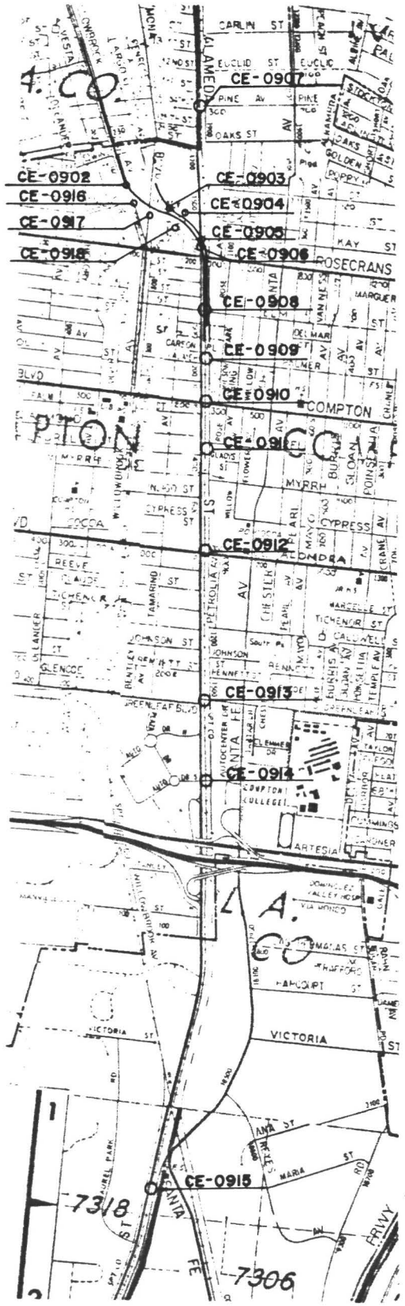
APPROVED:

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK

OWENS–CORNING SPUR

CROSS–SECTIONS SHEET 22 OF 22

CONTRACT NO. R01–T01–C235
DRAWING NO. RR–0976
REV.
SHEET NO. 68
SCALE 1" = 5'



CONSTRUCTION NOTES

1. REMOVE PORTIONS OF EXISTING CURB & EXISTING CURB & GUTTER.
2. REMOVE INTERFERING PORTIONS OF EXISTING CURB.
3. REMOVE EXISTING A.C PAVEMENT.
4. CONSTRUCT 4" A.C PAVEMENT ON 6" A.B.
5. CONSTRUCT 8" CONCRETE CURB & GUTTER, PER CITY OF COMPTON STD. PLAN NO. 10848.
6. CONSTRUCT 8" CONCRETE CURB & GUTTER, TYPE A2, PER LACRD STD. PLAN NO. 28-01.
7. OVERLAY 1" (MIN.) A.C. RESURFACING LAYER & FEATHER EDGES FOR SMOOTH JOIN.
8. CONSTRUCT ACCESS RAMP, PER CITY OF COMPTON DRAWING NO. 1085.
9. SAWCUT AND REMOVE 12" (MIN.) FROM EDGE OF EXISTING PAVEMENT & JOIN.
10. SAWCUT AND REMOVE EXISTING CURB & GUTTER & JOIN.
11. REMOVE AND/OR RELOCATE EXISTING TRAFFIC LIGHT/SIGNAL PER TRAFFIC SIGNAL PLANS.
12. CONSTRUCT 6" CONCRETE CURB, TYPE A1-6 PER A.P.W.A. STD. PLAN NO. 104-0.
13. CONSTRUCT 4" P.C.C SIDEWALK.
14. REMOVE AND/OR RELOCATE STREET LIGHT/WIRE POST PER STREET LIGHTING PLAN.
15. REMOVE AND/OR RELOCATE EXISTING R.R CROSSING BARRIER AND PULL BOX.
16. SAWCUT & REMOVE PORTION OF EXISTING A.C. PAVEMENT (10" MIN.) AND CONSTRUCT GRADE CROSSING PER DWG. RR-0931.
17. RELOCATE FIRE HYDRANT.
18. ADJUST MANHOLE TO GRADE.
19. REMOVE CATCH BASIN.
20. CONSTRUCT 8" CONC. CURB & GUTTER. TYPE A-3 PER LACRD STD. PLAN 28-01.
21. CONSTRUCT CATCH BASIN. PER APWA STD. PLAN 300-0
22. CONSTRUCT LOCAL DEPRESSION PER A.P.W.A. STD. PLAN.
23. CONSTRUCT DWY PER CITY OF COMPTON STD. PLAN 1124-C.
24. CONSTRUCT NEW CROSS GUTTER AS PER A.P.W.A. STD. PLAN NO. 106-0.
25. CONSTRUCT TYPE 1 DWY PER LACRD STD. PLAN NO. 36-01.
26. CONSTRUCT LOCAL DEPRESSION NO. 2 CASE C PER LACFCD STD. PLAN NO. 2-088.
27. REMOVE EXISTING SIDEWALK.
28. ADJUST EXISTING UTILITY VAULT TO GRADE.
29. CONSTRUCT CATCH BASIN PER LACFCD STD.
30. CONSTRUCT 5' LENGTH TRANSITION CURB FROM 0" TO 8" CF.
31. CONSTRUCT 18" RCP LATERAL, 1250 D.
32. CONSTRUCT 24" RCP LATERAL, 1250 D.
33. CONSTRUCT 2" x 4" REDWOOD HEADER.
34. CONSTRUCT JUNCTION STRUCTURE.
35. REMOVE INTERFERING PORTIONS OF EXISTING R.R. TRACK.
36. CONSTRUCT GRATING CATCH BASIN PER A.P.W.A. STD. PLAN 304-0 (1 GRATE)
37. CONSTRUCT CONCRETE SWALE

CITY OF COMPTON DRAFTING STANDARDS

10848	DETAIL OF INTEGRAL CURB & GUTTER
1085	WHEELCHAIR RAMP
1124-C	COMMERCIAL DRIVEWAY APPROACH

AMERICAN PUBLIC WORKS ASSOCIATION

104-0	CURB AND GUTTER - BARRIER
106-0	CROSS GUTTER
300-0	CURB OPENING CATCH BASINS
313-0	LOCAL DEPRESSIONS AT CATCH BASINS

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

2-D88 LOCAL DEPRESSION

LOS ANGELES COUNTY ROAD DEPARTMENT STD.

28-01	CURB AND GUTTER
36-01	DRIVEWAY

FINAL DESIGN

85% REVIEW

AUG 09 1988

REV.	DATE	DESCRIPTION	BY	APP.

Information confidential: all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Los Angeles County Transportation Commission.

DESIGNED BY AS
DRAWN BY Ray Eberle
CHECKED BY
APPROVED BY
DATE 4 Aug 1988

LACTC
LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

KaWES and Associates
Consulting Civil Engineers

SUBMITTED: _____

Transit Consultants of Southern California
A Joint Venture of:
- Parsons Brinckerhoff Quade & Douglas, Inc.
- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

APPROVED: _____

STOCKWELL TO DEL AMO BLVD.
RELOCATION AND SITE WORK
KEY PLAN

CONTRACT NO. R01-T01-C235
DRAWING NO. CE-0901
REV.
SHEET NO. 69
SCALE

85% REVIEW

AUG 09 1988

FINAL DESIGN

CURVE DATA	Δ	R	T	L
A	31°42'32"	45.00'	12.78'	24.91'
B	20°53'26"	707.34'	130.40'	257.90'

CONSTRUCTION NOTES

1. REMOVE PORTION OF EXISTING CURB & GUTTER.
5. CONSTRUCT 8" CONCRETE CURB & GUTTER PER CITY OF COMPTON STD. PLAN NO 10848.
7. OVERLAY 1" MIN. A.C. RESURFACING LAYER & FEATHER EDGES FOR A SMOOTH JOIN.
10. SAWCUT & REMOVE EXISTING CURB & GUTTER AND JOIN
13. CONSTRUCT 4" P.C.C SIDEWALK
16. SAWCUT AND REMOVE PORTIONS OF EXISTING A.C PAVEMENT (10' MIN) & CONSTRUCT GRADE CROSSING PER DWG NO. RR-0931
21. CONSTRUCT CATCH BASIN
22. CONSTRUCT LOCAL DEPRESSION PER A.P.W.A STD. PLAN
23. CONSTRUCT DRIVEWAY AS PER CITY OF COMPTON STD. PLAN 124-C
27. REMOVE EXISTING SIDEWALK
30. CONSTRUCT 5' LENGTH OF TRANSITION CURB FROM 0" TO 8" C.F
32. CONSTRUCT 24" RCP LATERAL, 1250 D.
33. CONSTRUCT 2" x 4" REDWOOD HEADER.
34. CONSTRUCT JUNCTION STRUCTURE

NOTE:
L STATIONS WITH [ ] ARE STORM DRAIN STATIONS

SEE DWG. NO. 0903 FOR THIS PART.

SEE DWG. NO. 0916 FOR THIS PART.

SEE DWG. NO. 0942 FOR THIS PART.

SEE DWG. NO. 0916 FOR THIS PART.

GRAPHIC SCALE 1"=20'

REV.	DATE	DESCRIPTION	BY	APP.

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DESIGNED BY J. ILANO
DRAWN BY F.DE CASTRO
CHECKED BY
APPROVED BY
DATE 6-4-88

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

KaWES and Associates
Consulting Civil Engineers

Transit Consultants of Southern California
A Joint Venture of:
Parsons Brinckerhoff Quade & Douglas, Inc.
Daniel, Mann, Johnson & Mendenhall
Kaiser Engineers (California) Corporation
North Pacific Construction Management

SUBMITTED: _____
APPROVED: _____

STOCKWELL TO DEL AMO BLVD.
RAILROAD RELOCATION WORK

ROADWAY IMPROVEMENT

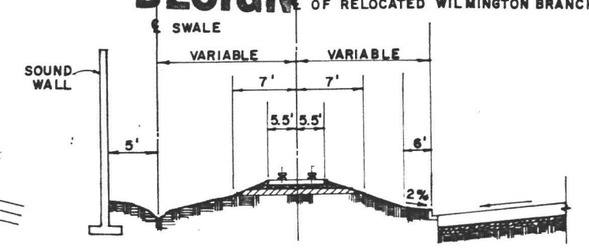
EAST WILLOWBROOK AVE.

CONTRACT NO. ROI-TOI-C235
DRAWING NO. CE-0902
REV.
SHEET NO. 70
SCALE AS NOTED

CURVE DATA				
CURVE	Δ	R	T	L
(A)	87°47'06"	=75.00'	72.16'	114.91'

1. REMOVE INTERFERING PORTIONS OF EXISTING CURB & GUTTER
2. REMOVE INTERFERING PORTIONS OF EXISTING CURB
3. REMOVE EXISTING A.C. PAVEMENT
4. CONSTRUCT 4" A.C. PAVEMENT ON 6" A.B.
5. CONSTRUCT 8" CONCRETE CURB & GUTTER, PER CITY OF COMPTON STD. PLAN NO. 10848
6. CONSTRUCT 8" CONCRETE CURB & GUTTER TYPE A2 PER L.A.C.R.D. STD. PLAN NO. 28-01
7. OVERLAY 1" (MIN.) A.C. RESURFACING LAYER & FEATHER EDGES FOR A SMOOTH JOIN
8. CONSTRUCT ACCESS RAMP, PER CITY OF COMPTON NO. 1085
9. SAWCUT & REMOVE 12" (MIN.) FROM EDGE OF EXISTING PAVEMENT AND JOIN
10. SAWCUT & REMOVE EXISTING CURB & GUTTER & JOIN
16. SAWCUT & REMOVE INTERFERING PORTIONS OF EXISTING A.C PAVEMENT (10' MIN. PER DWG. No. RR-0931)
18. ADJUST MANHOLE TO GRADE
21. CONSTRUCT CATCH BASIN
22. CONSTRUCT LOCAL DEPRESSION PER A.P.W.A STD. PLAN
30. CONSTRUCT 5' LENGTH OF TRANSITION CURB FROM 0" TO 8" C.F
31. CONSTRUCT 18" RCP LATERAL, 1250 D.
34. CONSTRUCT JUNCTION STRUCTURE.
35. REMOVE INTERFERING PORTION OF EXISTING R.R. TRACK.

FINAL DESIGN



SECTION A-A
N.T.S.

AUG 09 1988

85% REVIEW

20 0 20 40
1" = 20'-0" GRAPHIC SCALE

REV.	DATE	DESCRIPTION	BY	APP.

Information contained on all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Los Angeles County Transportation Commission.

DESIGNED BY J. ADRIANO
DRAWN BY Z. ONTIVEROS
CHECKED BY
APPROVED BY
DATE 08-09-88

LACTC

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

KaWES and Associates
Consulting Civil Engineers

SUBMITTED: _____

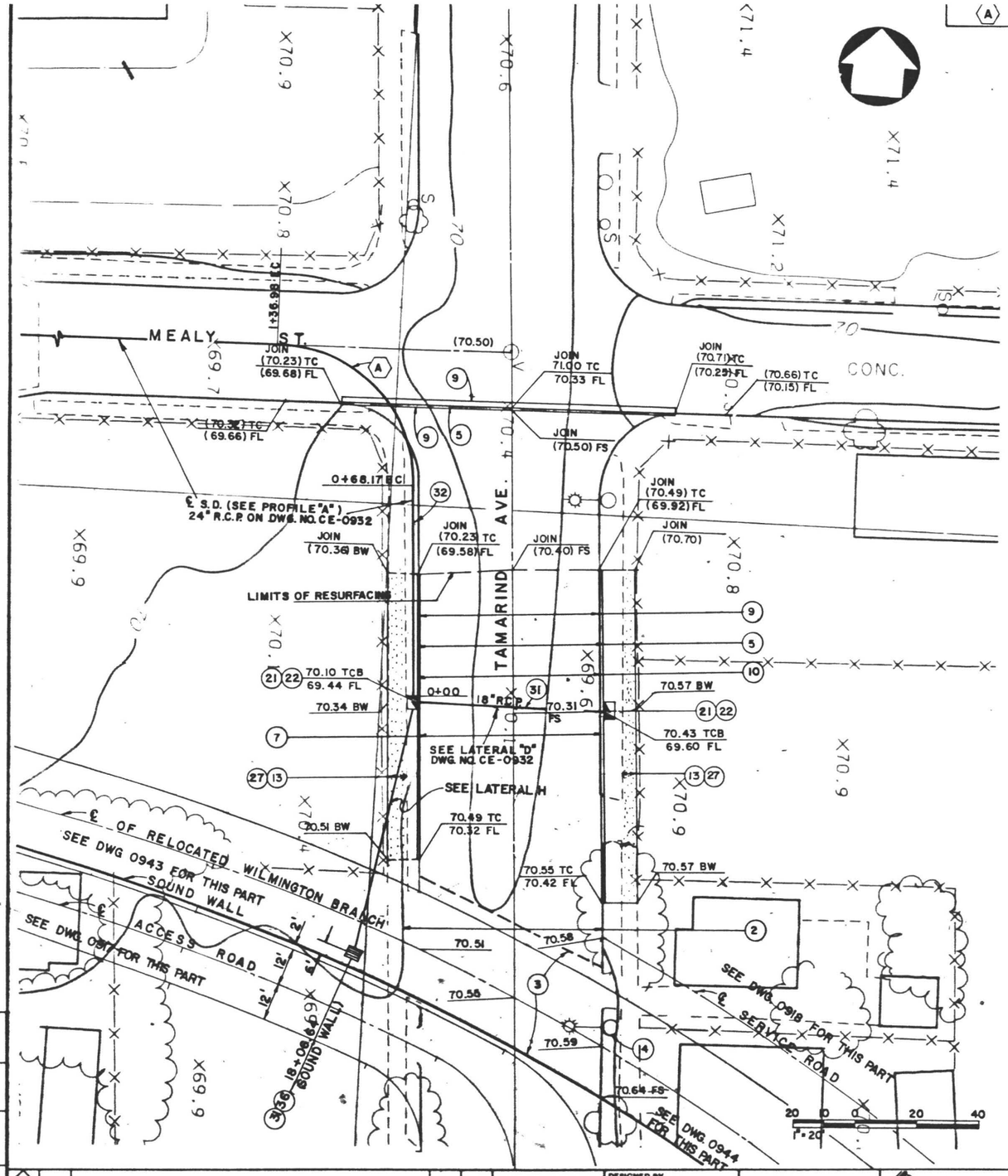
Transit Consultants of Southern California
A Joint Venture of:
- Parsons Brinckerhoff Quade & Douglas, Inc.
- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

APPROVED: _____

STOCKWELL TO DEL AMO BLVD.
RELOCATION AND SITE WORK
ROADWAY IMPROVEMENT
MEALY STREET/OWENS CORNING SPUR

CONTRACT NO. RO1-T01-C235
DRAWING NO. CE-0903
REV.
SHEET NO. 71
SCALE AS NOTED

(A)	83°36'42"	45.00'	43.16'	68.81'



1. REMOVE INTERFERING PORTIONS OF EXISTING CURB & GUTTER
2. REMOVE INTERFERING PORTIONS OF EXISTING CURB
3. REMOVE EXISTING A.C. PAVEMENT
4. CONSTRUCT 4" A.C. PAVEMENT ON 6" A.B.
5. CONSTRUCT 8" CONCRETE CURB & GUTTER, PER CITY OF COMPTON STD. PLAN No. 1084B
6. CONSTRUCT 8" CONCRETE CURB & GUTTER TYPE A-2 PER LACRD STD. PLAN No. 28-01
7. OVERLAY 1" (MIN.) A.C. RESURFACING LAYER & FEATHER EDGES FOR A SMOOTH JOIN
8. CONSTRUCT ACCESS RAMP, PER CITY OF COMPTON No. 1085
9. SAWCUT & REMOVE 12" (MIN.) FROM EDGE OF EXISTING PAVEMENT AND JOIN
10. SAWCUT & REMOVE EXISTING CURB & GUTTER & JOIN
11. REMOVE AND/OR RELOCATE EXISTING TRAFFIC LIGHT/SIGNAL PER TRAFFIC SIGNAL PLAN
12. CONSTRUCT 6" CONCRETE CURB, TYPE A1-6 PER A.P.W.A. STD. PLAN NO. 104-0
13. CONSTRUCT 4" P.C.C. SIDEWALK
14. REMOVE AND/OR RELOCATE EXISTING STREET LIGHT/WIRE POST PER STREET LIGHTING PLAN
15. REMOVE AND/OR RELOCATE EXISTING R.R. CROSSING BARRIER AND PULL BOX
16. SAWCUT AND REMOVE INTERFERING PORTIONS OF EXISTING A.C PAVEMENT (10' MIN. PER DWG. No. RR-0931
17. RELOCATE FIRE HYDRANT
18. ADJUST MAN HOLE TO GRADE
21. CONSTRUCT CATCH BASIN PER A.P.W.A. STD. PLAN NO. 300-0 W=3.5' V=3.5'
22. CONSTRUCT LOCAL DEPRESSION PER A.P.W.A. STD. PLAN NO. 313-0 CASE "E" H=0
27. REMOVE EXISTING SIDEWALK
31. CONSTRUCT 18" R.C.P. LATERAL, 1250 D
32. CONSTRUCT 24" R.C.P. LATERAL, 1250 D
34. CONSTRUCT JUNCTION STRUCTURE
36. CONSTRUCT GRATING CATCH BASIN PER A.P.W.A. STD. NO. 304-0 (1 GRATE).

FINAL DESIGN

85% REVIEW

AUG 09 1988

REV.	DATE	DESCRIPTION	BY	CHK	APP.

Information confidential: all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Los Angeles County Transportation Commission.

DESIGNED BY J. ADRIANO
DRAWN BY Z. ONTIVEROS
CHECKED BY
APPROVED BY
DATE 8-4-88

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

KaWES and Associates
Consulting Civil Engineers

Transit Consultants of Southern California
A Joint Venture of:
- Parsons Brinckerhoff Quade & Douglas, Inc.
- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

SUBMITTED: _____ APPROVED: _____

STOCKWELL TO DEL AMO BLVD. RELOCATION AND SITE WORK

ROADWAY IMPROVEMENT

TAMARIND AVE.

CONTRACT NO. RO1-T01-C235
DRAWING NO. CE-0904 4
REV.
SHEET NO. 72
SCALE AS NOTED

CONSTRUCTION NOTES

1. REMOVE PORTIONS OF EXISTING CURB & GUTTER
5. CONSTRUCT 8" CONCRETE CURB & GUTTER, PER CITY OF COMPTON STD. PLAN NO. 10848.
7. OVERLAY 1" MIN A.C. RESURFACING LAYER & FEATHER EDGES FOR A SMOOTH JOIN.
10. SAWCUT & REMOVE EXISTING CURB & GUTTER & JOIN
13. CONSTRUCT 4" P.C.C. SIDEWALK
21. CONSTRUCT CATCH BASIN PER A.P.W.A STD.
22. CONSTRUCT LOCAL DEPRESSION PER A.P.W.A STD.
23. CONSTRUCT DRIVEWAY AS PER CITY OF COMPTON STD. PLAN 1124-C
27. REMOVE EXISTING SIDEWALK
30. CONSTRUCT 5' LENGTH OF TRANSITION CURB FROM 0" TO 8" C.F
31. CONSTRUCT 18" RCP LATERAL, 1250 D.

PLAN
SCALE 1"=20'

PROFILE
SCALE 1"=4'

FINAL DESIGN

85% REVIEW

AUG 09 1988

REV.	DATE	DESCRIPTION	BY	APP.
1				
2				

Information confidential: all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Los Angeles County Transportation Commission.

DESIGNED BY J. ILANO
DRAWN BY F. DE CASTRO
CHECKED BY
APPROVED BY
DATE 08-04-88

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

KaWES and Associates
Consulting Civil Engineers

Transit Consultants of Southern California
A Joint Venture of: Parsons Brinckerhoff Quade & Douglas, Inc.; Daniel, Mann, Johnson & Mendenhall; Kaiser Engineers (California) Corporation; North Pacific Construction Management

SUBMITTED: _____ APPROVED: _____

STOCKWELL TO DEL AMO BLVD. RAILROAD RELOCATION WORK

ROADWAY IMPROVEMENT

WEST ALAMEDA STREET NORTH OF ROSECRANS SHT. 1 OF 2

CONTRACT NO. ROI-TOI-C235
DRAWING NO. CE-0905
REV.
SHEET NO. 73
SCALE AS NOTED

CONSTRUCTION NOTES

1. REMOVE PORTIONS OF EXISTING CURB & GUTTER
5. CONSTRUCT 8" CONCRETE CURB & GUTTER, PER CITY OF COMPTON STD. PLAN NO. 10848.
7. OVERLAY 1" MIN A.C. RESURFACING LAYER & FEATHER EDGES FOR A SMOOTH JOIN.
10. SAWCUT & REMOVE EXISTING CURB & GUTTER & JOIN.
14. REMOVE AND/OR RELOCATE STREET LIGHT/ WIRE POST, SEE STREET LIGHTING PLAN.
16. SAWCUT & REMOVE PORTIONS OF EXISTING PAVEMENT (10' MIN.) AND CONSTRUCT GRADE CROSSING PER DWG. RR-0931
17. RELOCATE FIRE HYDRANT.
30. CONSTRUCT 5' LENGTH OF TRANSITION CURB FROM 0" TO 8" C.F
31. CONSTRUCT 18" RCP LATERAL, 1250 D.

MATCH LINE STA 4+20.00 SEE DWG NO. CE-0905

ALAMEDA ST.

℄ OF OWENS CORNING SPUR

℄ OF RELOCATED WILMINGTON BRANCH

℄ 18" R.C.P. (SEE PROFILE "C" ON DWG. NO. CE-0933

SOUND WALL

STA 3+73.00

STA 3+24.00

71.11 TC
0" CF

71.13

STA 2+33

71.17 TC JOIN
0" CF

STA 1+42.00

JOIN
(70.73) TC
(70.08) FL
(70.07) LIP

(70.88) TC
(70.23) FL
(70.21) FL

LIMITS OF RESURFACING

(70.45) FS

70.54

STA 3+84.75
JOIN EXIST. CURB

(70.06) FS

70.83 TC
0" CF

71.04

71.00

71.00 BW

71.07 BW

71.02 BW

69.88 BW

(69.43) TC
(68.60) FL
(68.77) LIP

STA 1+75.20

STA 1+01.00

JOIN
(69.68) TC
(69.01) FL
(69.18) LIP

STA 0+00.00

AVE.

ROSECRANS

PLAN
SCALE 1"=20'

PROPOSED TOP OF CURB EAST SIDE

-0.43%

STA 3+24
71.11

STA 2+33.00
71.17

PROPOSED TOP OF CURB EAST SIDE

0.438%

STA 1+42
(70.73) JOIN

STA 3+75.00
70.83

PROPOSED TOP OF CURB WEST SIDE

+0.708%

STA 1+75.20
69.43

0.337%

STA 1+01.00
(69.68) JOIN

MATCH LINE STA 4+20.00
SEE DWG. NO. CE-0905
70.69

PROFILE
SCALE 1"=4'

4+00 3+00 2+00 1+00 0+00

FINAL DESIGN

85% REVIEW

AUG 09 1988

20 10 0 20 40
1"=20' HORIZ

8 4 0 4 8
1"=4' VERT

REV.	DATE	DESCRIPTION	BY	APP.

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DESIGNED BY J. ADRIANO
DRAWN BY F. DE CASTRO
CHECKED BY
APPROVED BY
DATE 08-04-88

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

KaWES and Associates
Consulting Civil Engineers

Transit Consultants of Southern California
A Joint Venture of:
- Parsons Brinckerhoff Quade & Douglas, Inc.
- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

SUBMITTED: _____
APPROVED: _____

STOCKWELL TO DEL AMO BLVD. RAILROAD RELOCATION WORK

ROADWAY IMPROVEMENT

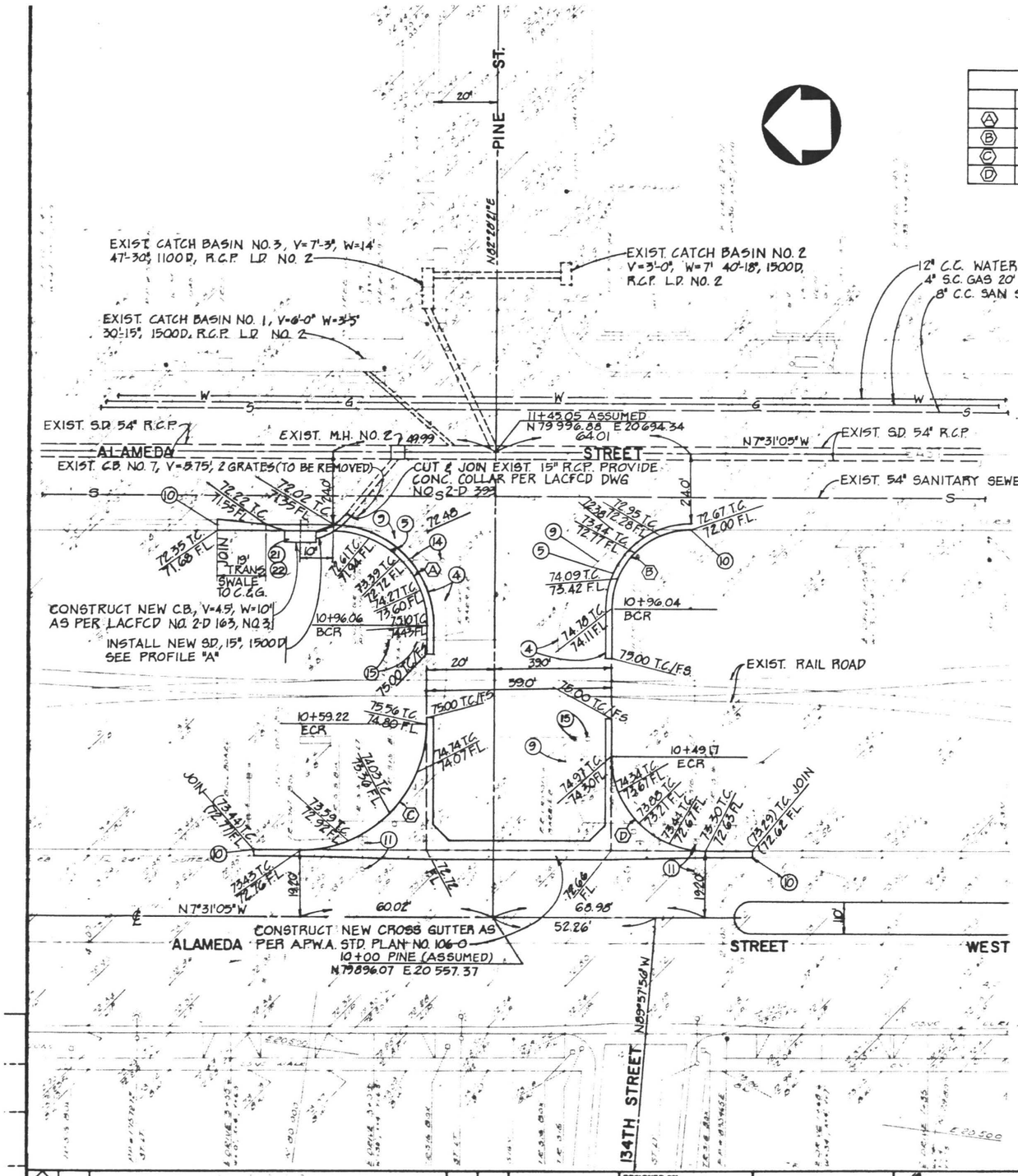
WEST ALAMEDA STREET NORTH OF ROSECRANS SHT 2 OF 2

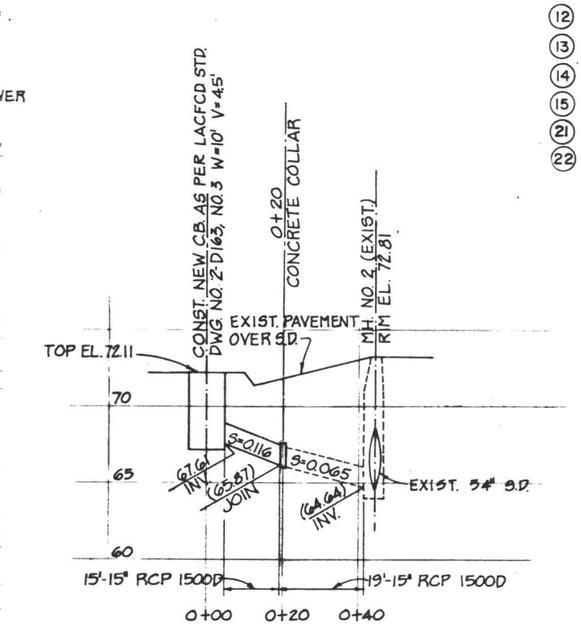
CONTRACT NO. ROI-TOI-C235
DRAWING NO. CE-0906
REV.
SHEET NO. 74
SCALE AS NOTED

CURVE DATA				
	R	Δ	L	T
Ⓐ	30'	89°59'26"	47.12'	30'
Ⓑ	25'	90°00'34"	39.27	25'
Ⓒ	40'	90°01'17"	62.85'	4001'
Ⓓ	30'	89°58'43"	47.11'	29.99'

CONSTRUCTION NOTES

1. REMOVE PORTIONS OF EXISTING CURB & GUTTER
2. REMOVE PORTIONS OF EXISTING CURB
3. REMOVE EXISTING A.C. PAVEMENT
4. CONSTRUCT 4" A.C. PAVEMENT ON 6" A.B.
5. CONSTRUCT 8" CONCRETE CURB & GUTTER, PER CITY OF COMPTON STD. PLAN NO. 10848
6. CONSTRUCT 8" CONCRETE CURB & GUTTER TYPE A-2 PER LACRD STD. PLAN No. 28.01
7. OVERLAY 1" (MIN.) A.C. RESURFACING LAYER & FEATHER EDGES FOR A SMOOTH JOIN
8. CONSTRUCT ACCESS RAMP, PER CITY OF COMPTON NO. 1085
9. SAWCUT & REMOVE 12" (MIN.) FROM EDGE OF EXISTING PAVEMENT AND JOIN
10. SAWCUT & REMOVE EXISTING CURB & GUTTER & JOIN
11. REMOVE AND/OR RELOCATE EXISTING TRAFFIC LIGHT/SIGNAL PER TRAFFIC SIGNAL PLAN
12. CONSTRUCT 6" CONCRETE CURB, TYPE A1-6 PER A.P.W.A. STD. PLAN NO. 104-0
13. CONSTRUCT 4" P.C.C SIDEWALK
14. REMOVE AND/OR RELOCATE STREET LIGHT/WIRE POST PER STREET LIGHTING PLAN
15. REMOVE AND/OR RELOCATE EXISTING R.R. CROSSING BARRIER AND PULL BOX.
21. CONSTRUCT CATCH BASIN PER A.P.W.A. STD.
22. CONSTRUCT LOCAL DEPRESSION PER A.P.W.A. STD.





PROFILE "A"
SCALE: HORIZ. 1"=20'
VERT. 1"= 5'

20 10 0 20 40
1"= 20'

FINAL DESIGN

85% REVIEW

AUG 09 1988

REV.	DATE	DESCRIPTION	BY	APP.

Information confidential: all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Los Angeles County Transportation Commission.

DESIGNED BY J. ADRIANO
DRAWN BY A. JAUREGUI
CHECKED BY
APPROVED BY
DATE 08-07-88

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

LeWES and Associates
Consulting Civil Engineers

SUBMITTED: _____

Transit Consultants of Southern California
A Joint Venture of:
- Parsons Brinckerhoff Quade & Douglas, Inc.
- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

APPROVED: _____

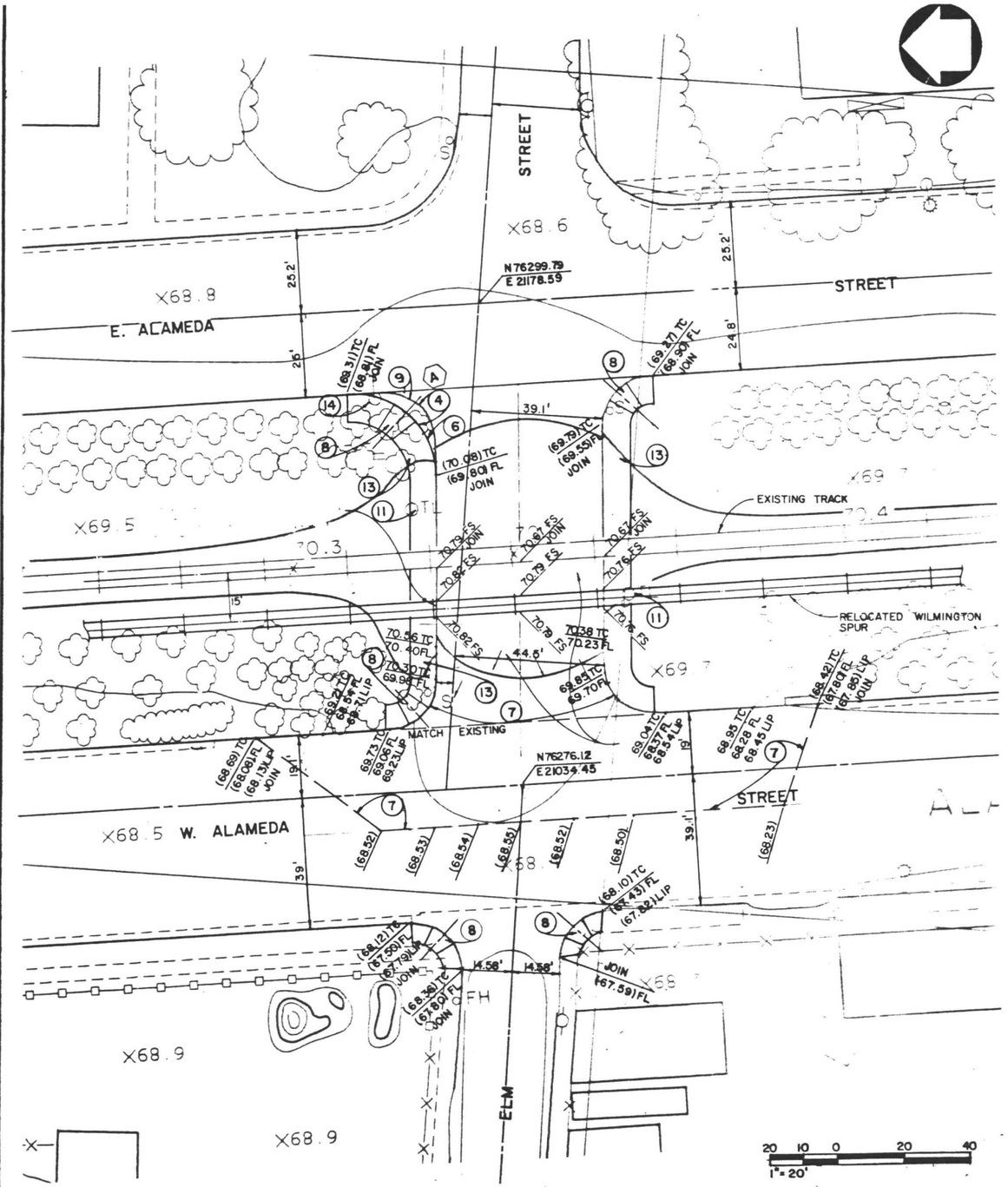
STOCKWELL TO DEL AMO BLVD. RELOCATION AND SITE WORK

ROADWAY IMPROVEMENT

PINE STREET

CONTRACT NO. R01-T01-C235
DRAWING NO. CE-0907
REV. | SHEET NO. 75
SCALE AS NOTED

961C04



CONSTRUCTION NOTES

1. REMOVE PORTIONS OF EXISTING CURB & GUTTER
2. REMOVE PORTIONS OF EXISTING CURB
3. REMOVE EXISTING A.C. PAVEMENT
4. CONSTRUCT 4" A.C. PAVEMENT ON 6" A.B.
5. CONSTRUCT 8" CONCRETE CURB & GUTTER, PER CITY OF COMPTON STD. PLAN No. 10848
6. CONSTRUCT 8" CONCRETE CURB & GUTTER TYPE A-2 PER LACRD STD. PLAN No. 28-01
7. OVERLAY 1" (MIN.) A.C. RESURFACING LAYER & FEATHER EDGES FOR A SMOOTH JOIN
8. CONSTRUCT ACCESS RAMP, PER CITY OF COMPTON No. 1085
9. SAWCUT & REMOVE 12" (MIN.) FROM EDGE OF EXISTING PAVEMENT AND JOIN
10. SAWCUT & REMOVE EXISTING CURB & GUTTER & JOIN
11. REMOVE AND/OR RELOCATE EXISTING TRAFFIC LIGHT/SIGNAL PER TRAFFIC SIGNAL PLAN
12. CONSTRUCT 6" CONCRETE CURB, TYPE A1-6 PER A.P.W.A. STD. PLAN NO. 104-0
13. CONSTRUCT 4" P.C.C. SIDEWALK
14. REMOVE AND/OR RELOCATE EXISTING STREET LIGHT/WIRE POST PER STREET LIGHTING PLAN
15. REMOVE AND/OR RELOCATE EXISTING R.R. CROSSING BARRIER AND PULL BOX
16. SAWCUT AND REMOVE PORTIONS OF EXISTING PAVEMENT (10' MIN.) AND CONSTRUCT GRADE CROSSING PER DWG. RR-0931
17. RELOCATE FIRE HYDRANT
18. ADJUST MANHOLE TO GRADE
19. REMOVE CATCH BASIN
20. CONSTRUCT 8" CONCRETE CURB & GUTTER, TYPE A-3 PER LACRD STD. PLAN 28-01
21. CONSTRUCT CATCH BASIN PER A.P.W.A STD.
22. CONSTRUCT LOCAL DEPRESSION PER A.P.W.A STD.
23. CONSTRUCT DRIVEWAY PER CITY OF COMPTON STD. PLAN 1124-C

FINAL DESIGN

85% REVIEW

AUG 09 1988

REV.	DATE	DESCRIPTION	BY	SUB	APP.

Information confidential: all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for any purpose not provided for in agreements with the Los Angeles County Transportation Commission.

DESIGNED BY R. Stovall
DRAWN BY F. DE CASTRO
CHECKED BY
APPROVED BY
DATE 08-04-88

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

LACTC

KaWES and Associates
Consulting Civil Engineers

SUBMITTED: _____

Transit Consultants of Southern California
A Joint Venture of:
- Parsons Brinckerhoff Quade & Douglas, Inc.
- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

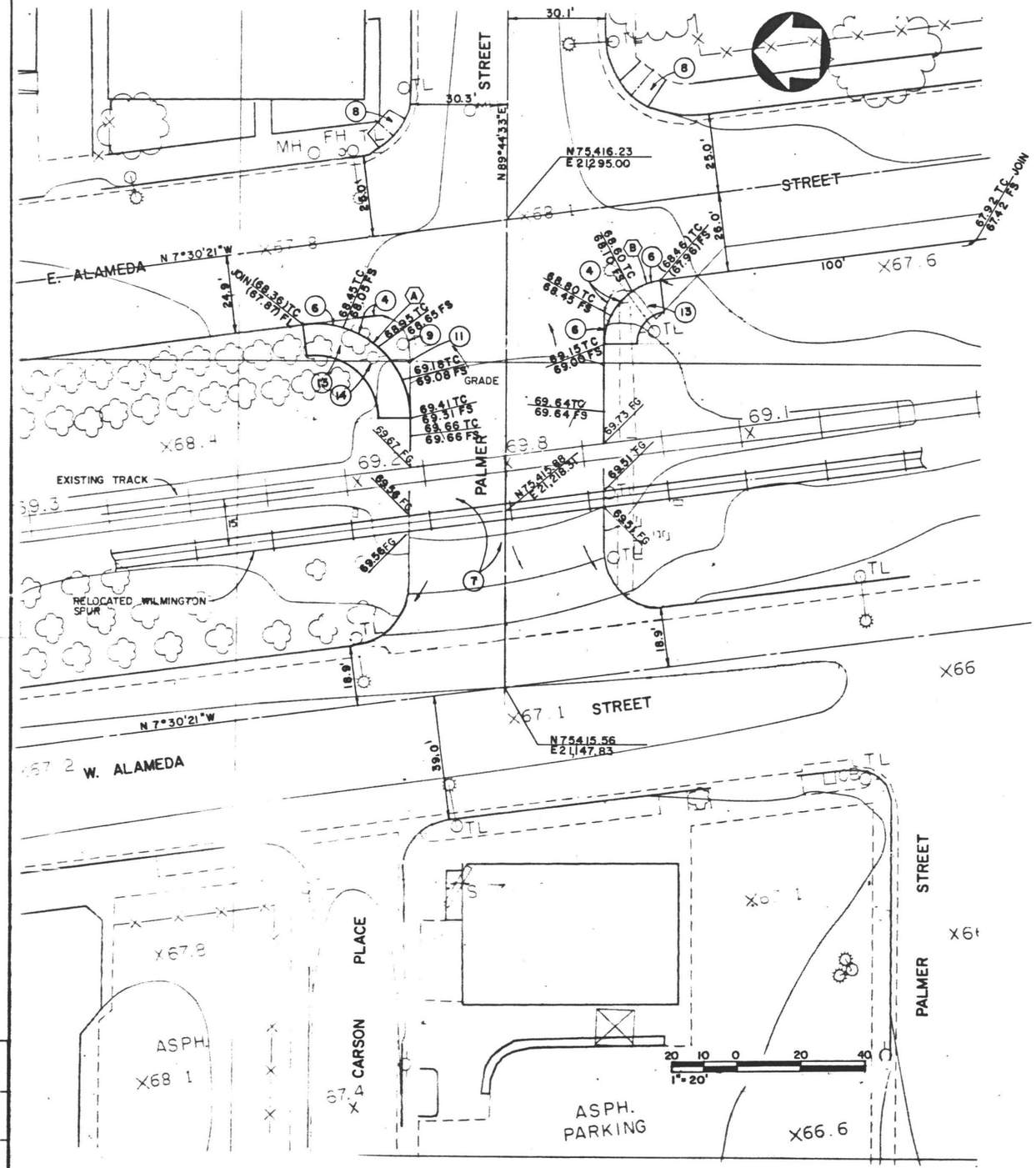
APPROVED: _____

STOCKWELL TO DEL AMO BLVD. RELOCATION AND SITE WORK

ROADWAY IMPROVEMENT

ELM STREET

CONTRACT NO. RQI-TOI-C235
DRAWING NO. CE-0908
REV.
SHEET NO. 76
SCALE AS NOTED



CURVE DATA				
NO.	Δ	R	L	T
A	97°14'53"	30.00'	50.92'	34.06'
B	82°45'07"	20.00'	28.89'	17.62'

CONSTRUCTION NOTES

1. REMOVE PORTIONS OF EXISTING CURB & GUTTER
2. REMOVE PORTIONS OF EXISTING CURB
3. REMOVE EXISTING A.C. PAVEMENT
4. CONSTRUCT 4" A.C. PAVEMENT ON 6" A.B.
5. CONSTRUCT 8" CONCRETE CURB & GUTTER, PER CITY OF COMPTON STD. PLAN No. 10848
6. CONSTRUCT 8" CONCRETE CURB & GUTTER TYPE A-2 PER LACRD STD. PLAN No. 28-01
7. OVERLAY 1" (MIN.) A.C. RESURFACING LAYER & FEATHER EDGES FOR A SMOOTH JOIN
8. CONSTRUCT ACCESS RAMP, PER CITY OF COMPTON No. 1085
9. SAWCUT & REMOVE 12" (MIN.) FROM EDGE OF EXISTING PAVEMENT AND JOIN
10. SAWCUT & REMOVE EXISTING CURB & GUTTER & JOIN
11. REMOVE AND/OR RELOCATE EXISTING TRAFFIC LIGHT/SIGNAL PER TRAFFIC SIGNAL PLANS
12. CONSTRUCT 6" CONCRETE CURB, TYPE A1-6 PER A.P.W.A. STD. PLAN NO. 104-0
13. CONSTRUCT 4" P.C.C. SIDEWALK
14. REMOVE AND/OR RELOCATE EXISTING STREET LIGHT/WIRE POST PER STREET LIGHTING PLAN
15. REMOVE AND/OR RELOCATE EXISTING R.R. CROSSING BARRIER AND PULL BOX
16. SAWCUT AND REMOVE PORTIONS OF EXISTING PAVEMENT (10' MIN.) AND CONST GRADE CROSSING PER DWG. RR-0931
17. RELOCATE FIRE HYDRANT
18. ADJUST MAN HOLE TO GRADE

FINAL DESIGN

85% REVIEW

AUG 09 1988

Work Element | Physical Entity | Contract Designator | Line Item | Cost Element | Number

Information confidential: all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for any purpose not provided

DESIGNED BY R.Estevez
DRAWN BY Z. ONTIVEROS
CHECKED BY
APPROVED BY

LACTC
LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

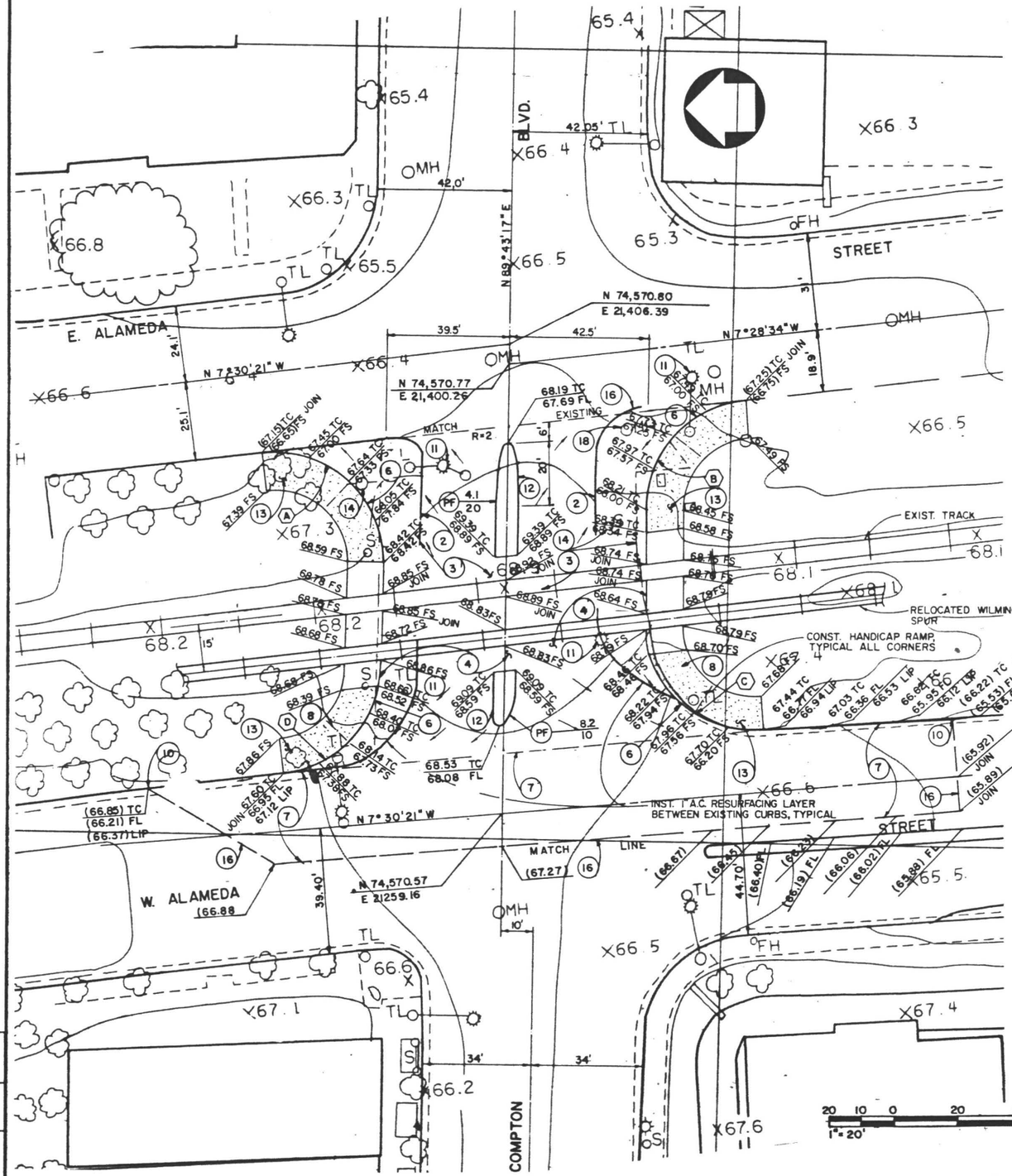
KaWES and Associates
Consulting Civil Engineers

Transit Consultants of Southern California
A Joint Venture of:
- Parsons Brinckerhoff Quade & Douglas, Inc.
- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation

STOCKWELL TO DEL AMO BLVD. RELOCATION AND SITE WORK

ROADWAY IMPROVEMENT

CONTRACT NO. RO1-TO1-C
DRAWING NO. CE-0909
REV.
SHEET NO. 77
SCALE



CURVE DATA				
NO	Δ	R	L	T
(A)	97° 13' 58"	35.00'	59.40'	39.72'
(B)	82° 48' 15"	35.00'	50.58'	30.86'
(C)	94° 31' 49"	30.00'	49.50'	32.47'
(D)	85° 28' 33"	30.00'	44.75'	27.72'

CONSTRUCTION NOTES

1. REMOVE PORTIONS OF EXISTING CURB & GUTTER
2. REMOVE INTERFERING PORTIONS OF EXISTING CURB
3. REMOVE EXISTING A.C. PAVEMENT
4. CONSTRUCT 4" A.C. PAVEMENT ON 6" A.B.
5. CONSTRUCT 8" CONCRETE CURB & GUTTER, TYPE A2-8 PER A.P.W.A STD. PLAN NO. 104-O
6. CONSTRUCT 8" CONCRETE CURB & GUTTER, TYPE A2 PER LACRD STD. PLAN NO. 28-01.
7. OVERLAY 1" (MIN.) A.C. RESURFACING LAYER & FEATHER EDGES FOR A SMOOTH JOIN.
8. CONSTRUCT ACCESS RAMP, PER CITY OF COMPTON NO. 1085.
9. SAWCUT & REMOVE 12" (MIN.) FROM EDGE OF EXISTING PAVEMENT AND JOIN
10. SAWCUT & REMOVE EXISTING CURB & GUTTER & JOIN
11. REMOVE AND/OR RELOCATE EXISTING TRAFFIC LIGHT/SIGNAL BOX
12. CONSTRUCT 6" CONCRETE CURB, TYPE A1-6 PER A.P.W.A. STD. PLAN NO. 104-(
13. CONSTRUCT 4" P.C.C. SIDEWALK
14. REMOVE AND/OR RELOCATE EXISTING STREET LIGHT/WIRE POST
15. REMOVE AND/OR RELOCATE EXISTING R.R. CROSSING BARRIER AND PULL BO)
16. SAWCUT AND JOIN EXISTING PAVEMENT
17. RELOCATE FIRE HYDRANT
18. ADJUST MAN HOLE TO GRADE

FINAL DESIGN

85% REVIEW

AUG 09 1988

Work Element | Physical Entity | Contract Designator | Line Item | Cost Element

Information confidential: all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for any purpose not provided

DESIGNED BY R.Stinalda
DRAWN BY F. DE CASTRO
CHECKED BY
APPROVED BY

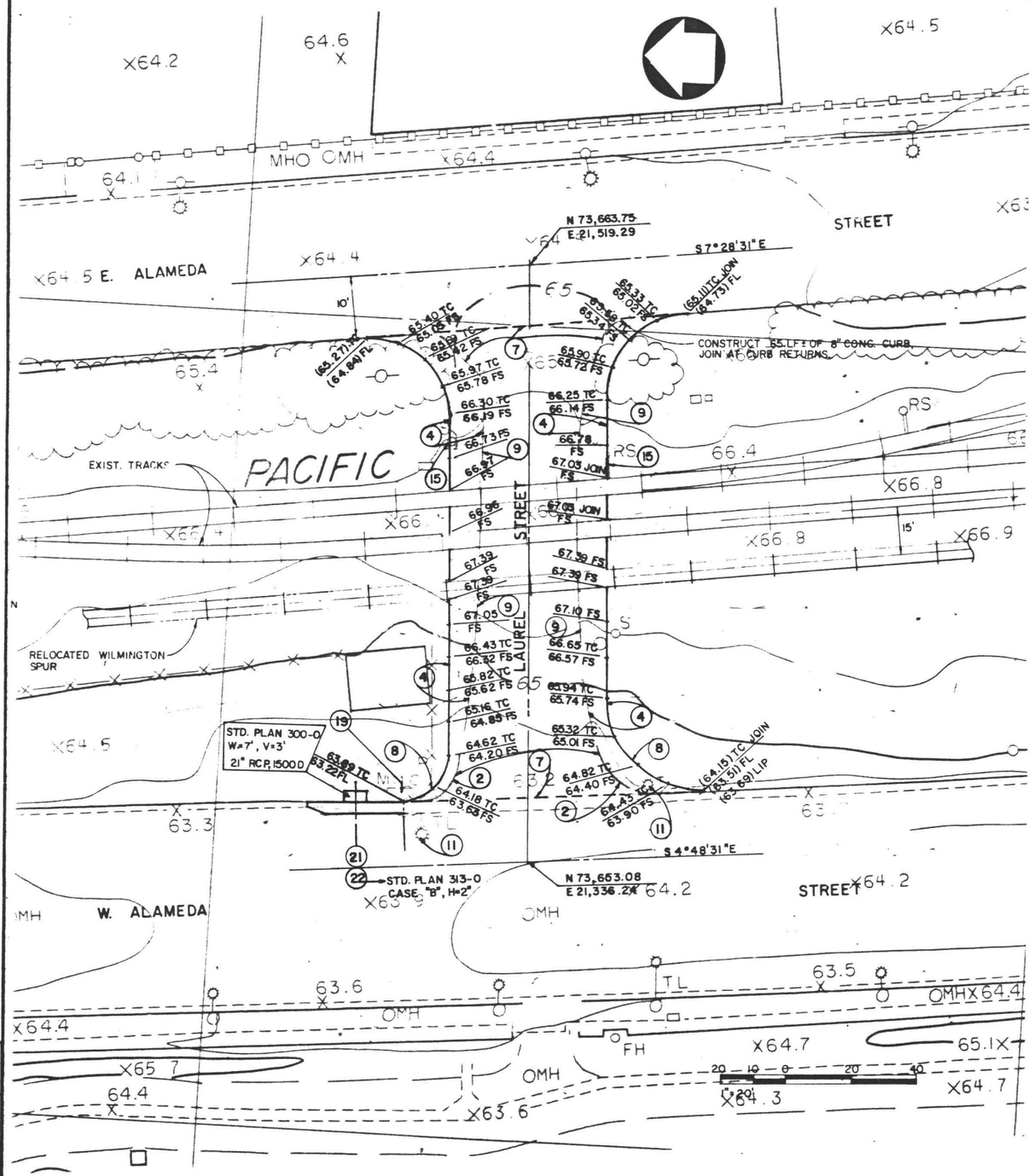
LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

KaWES and Associates
Consulting Civil Engineers

Transit Consultants of Southern California
A Joint Venture of: Parsons Brinckerhoff Quade & Douglas, Inc. / Daniel, Mann, Johnson & Mendenhall / Kaiser Engineers (California) Corporation

STOCKWELL TO DEL AMO BLVD.
RELOCATION AND SITE WORK
ROADWAY IMPROVEMENT

CONTRACT NO. RO1-TO1-
DRAWING NO. CE-0910
REV.
SHEET NO. 78
SCALE



CONSTRUCTION NOTES

1. REMOVE PORTIONS OF EXISTING CURB & GUTTER
2. REMOVE PORTIONS OF EXISTING CURB
3. REMOVE EXISTING A.C. PAVEMENT
4. CONSTRUCT 4" A.C. PAVEMENT ON 6" A.B.
5. CONSTRUCT 8" CONCRETE CURB & GUTTER, PER CITY OF COMPTON STANDARD PLAN No. 10848
6. CONSTRUCT 8" CONCRETE CURB & GUTTER TYPE A-2 PER LACRD STD PLAN NO. 28-01
7. OVERLAY 1" (MIN.) A.C. RESURFACING LAYER & FEATHER EDGES FOR A SMOOTH JOIN
8. CONSTRUCT ACCESS RAMP, PER CITY OF COMPTON STD. PLAN No. 1085
9. SAWCUT & REMOVE 12" (MIN.) FROM EDGE OF EXISTING PAVEMENT AND JOIN
10. SAWCUT & REMOVE EXISTING CURB & GUTTER & JOIN
11. REMOVE AND/OR RELOCATE EXISTING TRAFFIC LIGHT/SIGNAL PER TRAFFIC SIGNAL PLANS
12. CONSTRUCT 6" CONCRETE CURB, TYPE A1-6 PER A.P.W.A STD. PLAN No. 104-0
13. CONSTRUCT 4" P.C.C. SIDEWALK
14. REMOVE AND/OR RELOCATE EXISTING STREET LIGHT/WIRE POST PER STREET LIGHTING PLAN
15. REMOVE AND/OR RELOCATE EXISTING R.R. CROSSING BARRIER AND PULL BOX
16. SAWCUT AND REMOVE PORTIONS OF EXISTING PAVEMENT (10' MIN.) AND CONSTRUCT GRADE CROSSING PER DWG. RR-0931
17. RELOCATE FIRE HYDRANT
18. ADJUST MANHOLE TO GRADE
19. REMOVE CATCH BASIN
20. CONSTRUCT 8" CONCRETE CURB & GUTTER TYPE A-3 PER LACRD STANDARD PLAN 28-01
21. CONSTRUCT CATCH BASIN PER A.P.W.A STD.
22. CONSTRUCT LOCAL DEPRESSION PER A.P.W.A STD.
23. CONSTRUCT DRIVEWAY AS PER CITY OF COMPTON STD. PLAN 1124-C

FINAL DESIGN

85% REVIEW

AUG 09 1988

Work Element | Physical Entity | Contract Designator | Line Item | Cost Element

Information confidential: all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for

DESIGNED BY J. ADRIANO
DRAWN BY G. BELTRAN
CHECKED BY
APPROVED BY

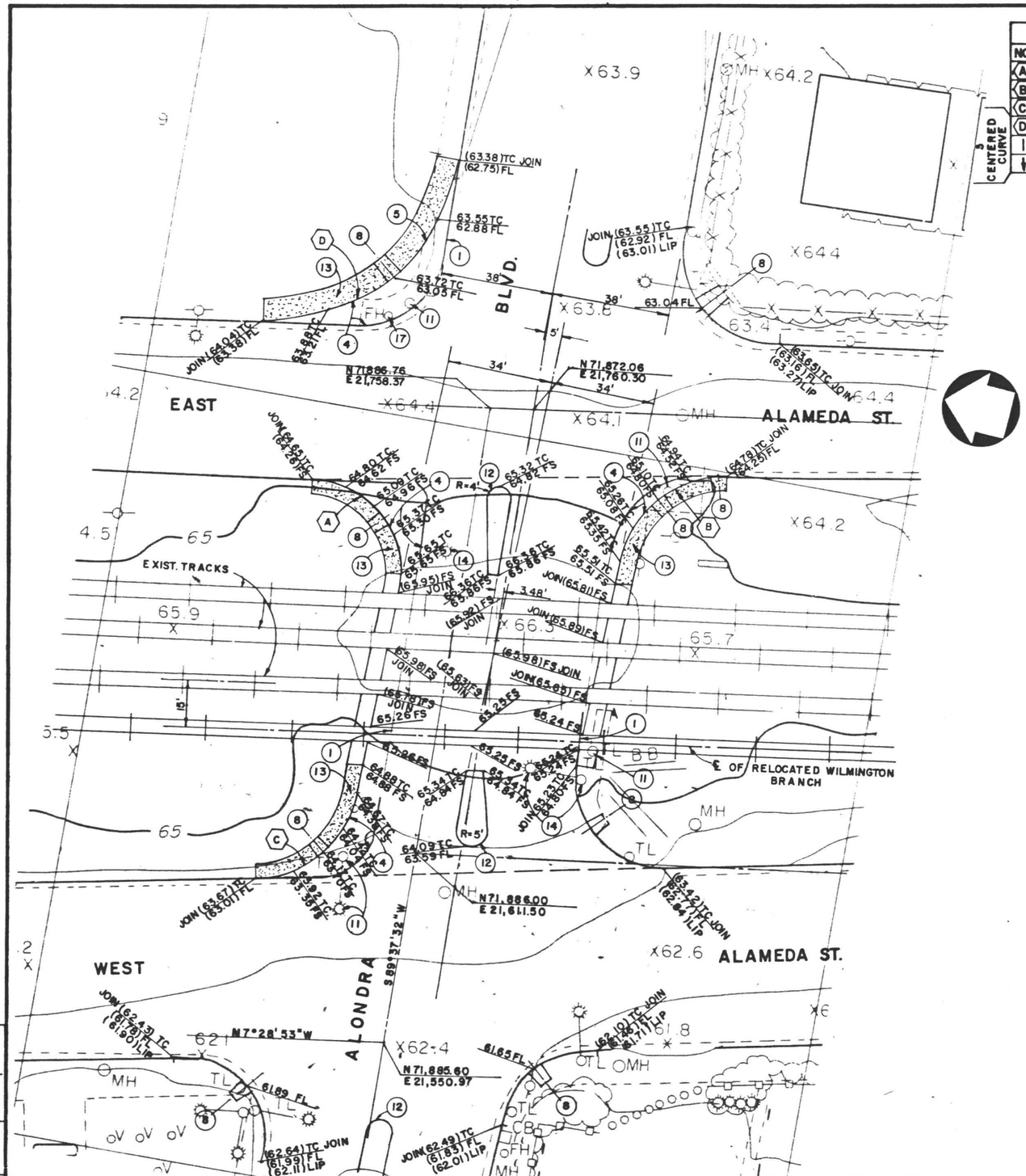
LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

KaWES and Associates
Consulting Civil Engineers

Transit Consultants of Southern California
A Joint Venture of: Parsons Brinckerhoff Quade & Douglas, Inc.; Daniel, Mann, Johnson & Mendenhall; Kaiser Engineers (California) Corporation

STOCKWELL TO DEL AMO BLVD.
RELOCATION AND SITE WORK
ROADWAY IMPROVEMENT

CONTRACT NO. RO1-T01-
DRAWING NO. CE-0911
REV.
SHEET NO. 79
SCALE


EAST
WEST
ALAMEDA ST.
ALAMEDA ST.
BLVD.
ALONDRA
EXIST. TRACKS
℄ OF RELOCATED WILMINGTON BRANCH
CENTERED CURVE
N 71,886.76
E 21,758.37
N 71,872.06
E 21,760.30
N 71,886.00
E 21,611.50
N 71,885.60
E 21,550.97
S 89°37'32" W
N 7°28'53" W
(63.38)TC JOIN
(62.75)FL
63.55TC
62.88FL
63.72TC
63.03FL
63.04FL
(63.65)TC JOIN
(63.16)FL
(63.27)LIP
(64.79)TC JOIN
(64.20)FL
64.80TC
64.67FS
65.59TC
64.96FS
65.37TC
65.10FS
65.32TC
64.82FS
65.42TC
65.33FS
65.51TC
65.24FS
65.46TC
65.08FS
64.94TC
64.52FS
64.10TC
63.88FS
64.09TC
63.59FL
64.97TC
64.84FS
65.34TC
64.84FS
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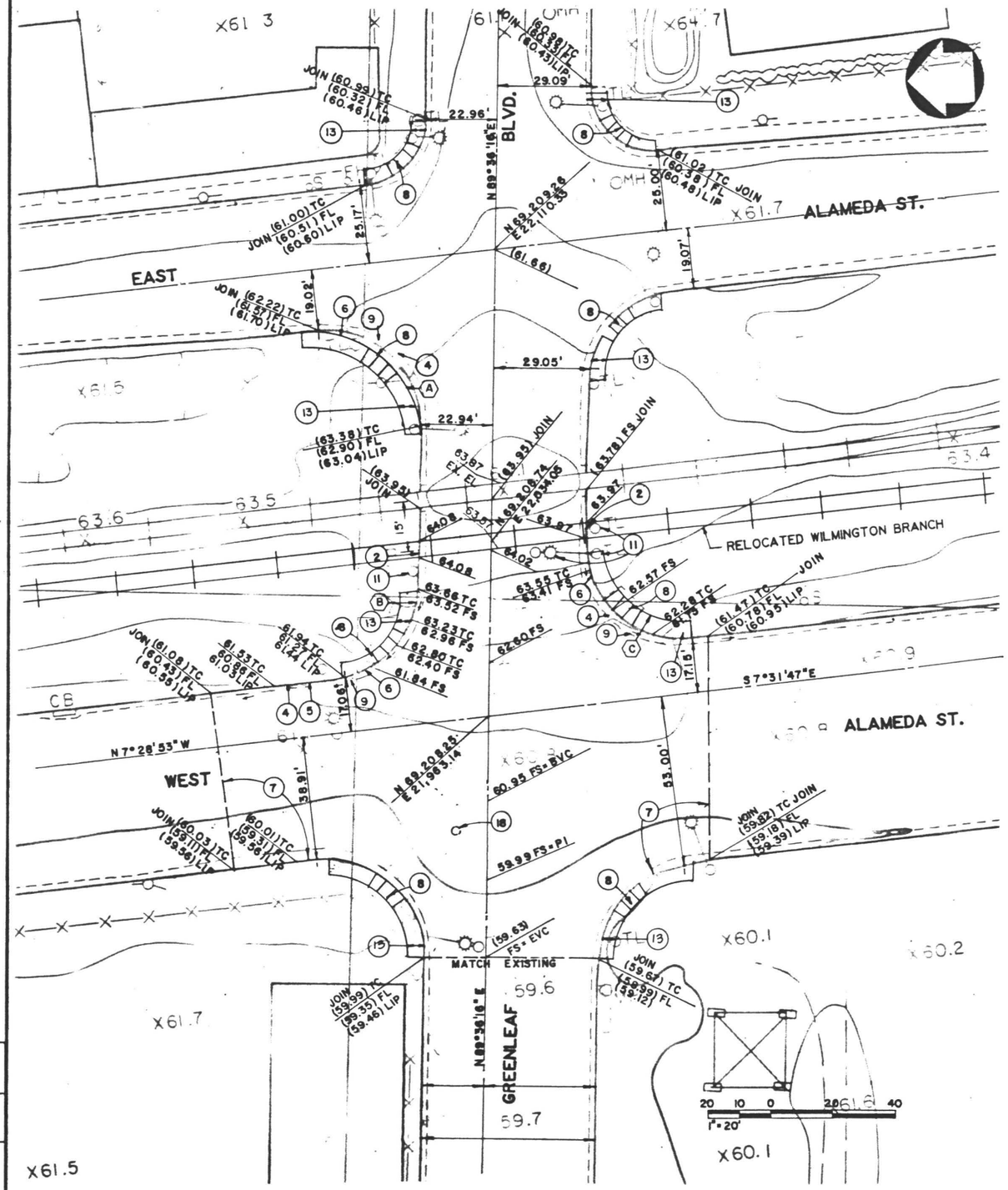
65.51FS
65.98FS
65.98FS
65.98



CURVE DATA				
NO	Δ	R	L	T
(A)	97° 05' 09"	35.00'	59.31'	39.62'
(B)	82° 54' 51"	25.00'	36.18'	22.08'
(C)	97°08' 03"	30.00'	50.86'	33.99'

CONSTRUCTION NOTES

1. REMOVE INTERFERING PORTIONS OF EXISTING CURB & GUTTER
2. REMOVE INTERFERING PORTIONS OF EXISTING CURB
3. REMOVE EXISTING A.C. PAVEMENT
4. CONSTRUCT 4" A.C. PAVEMENT ON 6" A.B.
5. CONSTRUCT 8" CONCRETE CURB & GUTTER, TYPE A2-8 PER A.P.W.A STD. PLAN NO. 10848
6. CONSTRUCT 8" CONCRETE CURB & GUTTER TYPE A2 PER LACRD STD PLAN NO. 28-01.
7. OVERLAY 1" (MIN.) A.C. RESURFACING LAYER & FEATHER EDGES FOR A SMOOTH JOIN
8. CONSTRUCT ACCESS RAMP, PER CITY OF COMPTON NO. 1085
9. SAWCUT & REMOVE 12" (MIN.) FROM EDGE OF EXISTING PAVEMENT AND JOIN
10. SAWCUT & REMOVE EXISTING CURB & GUTTER & JOIN
11. REMOVE AND/OR RELOCATE EXISTING TRAFFIC LIGHT/SIGNAL PER TRAFFIC SIGNAL PLANS.
13. CONSTRUCT 4" P.C.C. SIDEWALK
16. SAWCUT & REMOVE PORTIONS OF EXISTING PAVEMENT

FINAL DESIGN

85% REVIEW

AUG 0 9 1988

Work Element	Physical Entity	Contract Designator	Line Item	Cost Element

Information confidential: all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for

DESIGNED BY G. BELTRAN
DRAWN BY G. BELTRAN
CHECKED BY
APPROVED BY

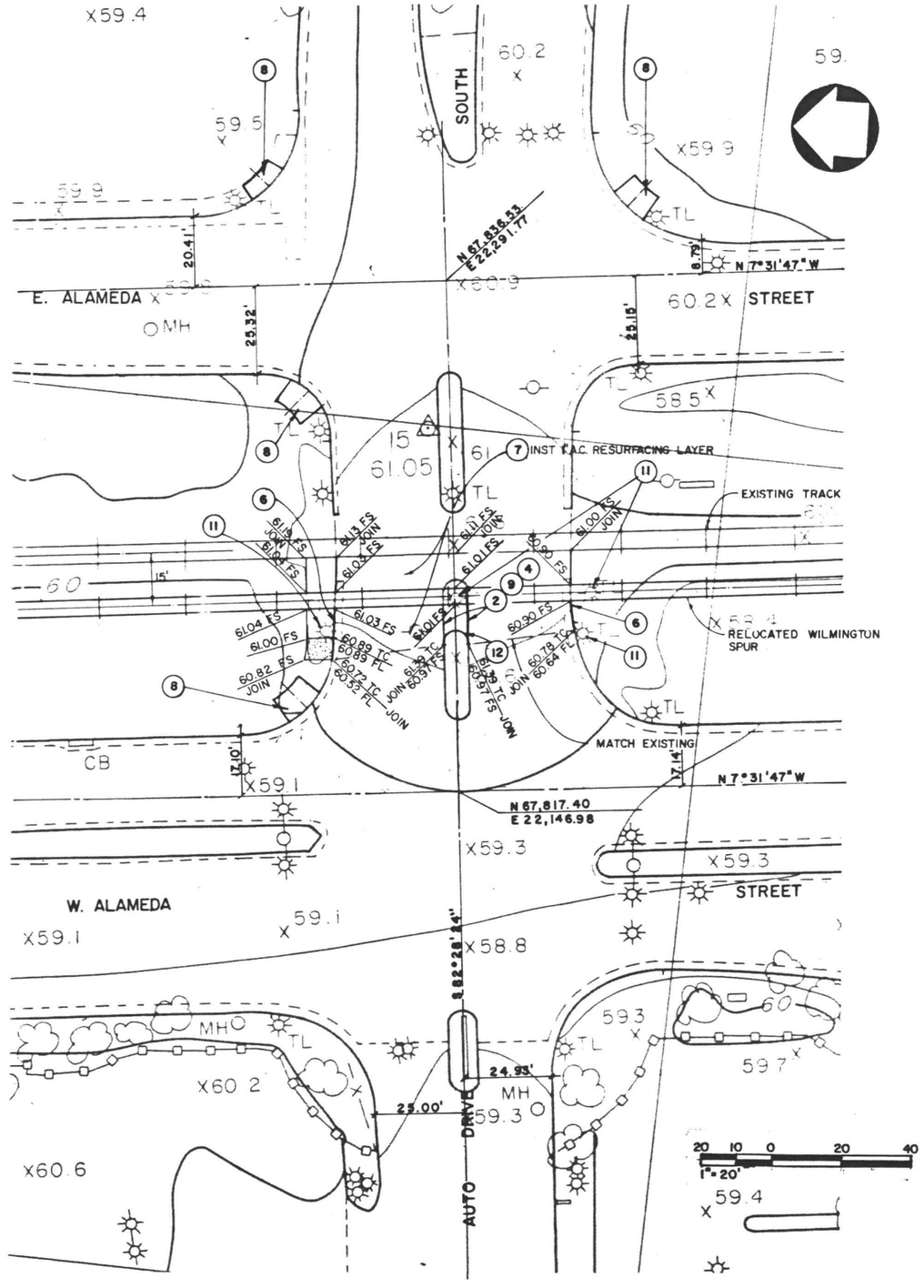
LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

KaWES and Associates
Consulting Civil Engineers

Transit Consultants of Southern California
A Joint Venture of: Parsons Brinckerhoff Quade & Douglas, Inc.; Daniel, Mann, Johnson & Mendenhall; Kaiser Engineers (California) Corporation

STOCKWELL TO DEL AMO BLVD.
RELOCATION AND SITE WORK
ROADWAY IMPROVEMENT

CONTRACT NO. RQ1-T01
DRAWING NO. CE-0913
REV.
SHEET NO. 81
SCALE



CONSTRUCTION NOTES

1. REMOVE PORTIONS OF EXISTING CURB & GUTTER
2. REMOVE PORTIONS OF EXISTING CURB
3. REMOVE EXISTING A.C. PAVEMENT
4. CONSTRUCT 4" A.C. PAVEMENT ON 6" A.B.
5. CONSTRUCT 8" CONCRETE CURB & GUTTER, PER CITY OF COMPTON STD. PLAN No. 10848
6. CONSTRUCT 8" CONCRETE CURB & GUTTER TYPE A-2 PER LACRD STD. PLAN No. 2801
7. OVERLAY 1" (MIN.) A.C. RESURFACING LAYER & FEATHER EDGES FOR A SMOOTH JOIN
8. CONSTRUCT ACCESS RAMP, PER CITY OF COMPTON No. 1085
9. SAWCUT & REMOVE 12" (MIN.) FROM EDGE OF EXISTING PAVEMENT AND JOIN
10. SAWCUT & REMOVE EXISTING CURB & GUTTER & JOIN
11. REMOVE AND/OR RELOCATE EXISTING TRAFFIC LIGHT/SIGNAL PER TRAFFIC SIGNAL PLANS
12. CONSTRUCT 6" CONCRETE CURB, TYPE A1-6 PER A.P.W.A. STD. PLAN NO. 104-(
13. CONSTRUCT 4" PCC SIDEWALK
14. REMOVE AND/OR RELOCATE EXISTING STREET LIGHT/WIRE POST PER STREE LIGHTING PLAN
15. REMOVE AND/OR RELOCATE EXISTING R.R. CROSSING BARRIER AND PULL BO
16. SAWCUT AND REMOVE PORTIONS OF EXISTING PAVEMENT (10' MIN.) AND CONSTRUCT GRADE CROSSING PER DWG. RR-0931

FINAL DESIGN

85% REVIEW

AUG 09 1988

Work Element | Physical Entity | Contract Designator | Line Item | Cost Element

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DESIGNED BY J. ADRIANO
DRAWN BY C. BELTRAN
CHECKED BY
APPROVED BY

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

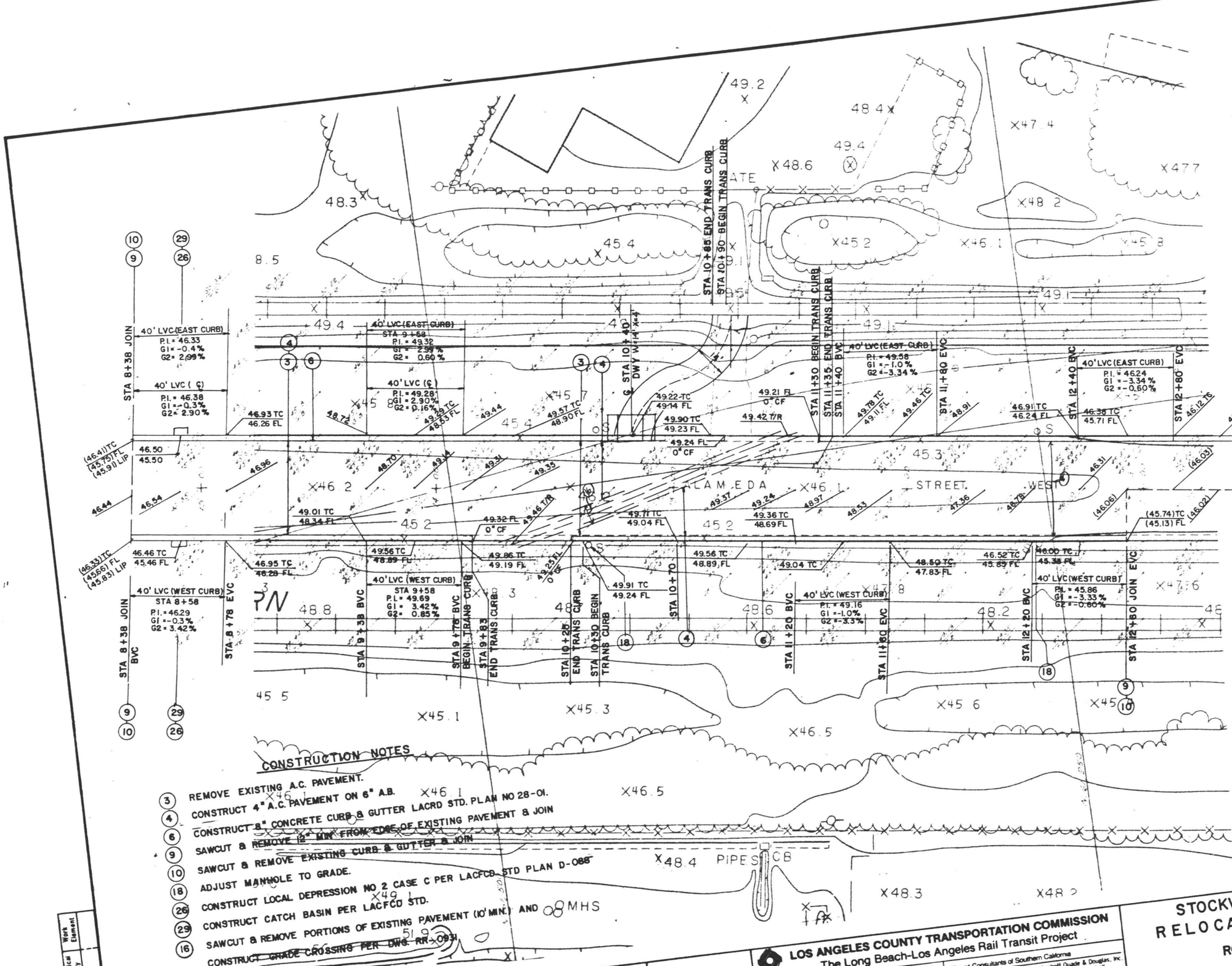
KaWES and Associates
Consulting Civil Engineers

Transit Consultants of Southern California
A Joint Venture of: Parsons Brinckerhoff Quade & Douglas, Inc.; Daniel, Mann, Johnson & Mendenhall; Kaiser Engineers (California) Corporation

STOCKWELL TO DEL AMO BLVD. RELOCATION AND SITE WORK

ROADWAY IMPROVEMENT

CONTRACT NO. RO1-TO1-
DRAWING NO. CE-0914
REV.
SHEET NO. 82
SCALE



CONSTRUCTION NOTES

3. REMOVE EXISTING A.C. PAVEMENT.
4. CONSTRUCT 4" A.C. PAVEMENT ON 6" A.B.
6. CONSTRUCT 8" CONCRETE CURB & GUTTER LACRD STD. PLAN NO 28-01.
9. SAWCUT & REMOVE 12" MIN FROM EDGE OF EXISTING PAVEMENT & JOIN
10. SAWCUT & REMOVE EXISTING CURB & GUTTER & JOIN
18. ADJUST MANHOLE TO GRADE.
26. CONSTRUCT LOCAL DEPRESSION NO 2 CASE C PER LACFCD STD PLAN D-088
29. CONSTRUCT CATCH BASIN PER LACFCD STD.
16. SAWCUT & REMOVE PORTIONS OF EXISTING PAVEMENT (10' MIN.) AND CONSTRUCT GRADE CROSSING PER DWG. RR-0931

FINAL DESIGN

85% REVIEW

AUG 09 1988

20 0 20
1" = 20'-0" GRAPHIC S

CONTRACT NO.	R01-TO
DRAWING NO.	CE-0915
REV.	
SHEET NO.	83
SCALE	

STOCKWELL TO DEL AMO BLVD.
RELOCATION AND SITE WORK
ROADWAY IMPROVEMENT

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

LACTC

KaWES and Associates
Consulting Civil Engineers

Transit Consultants of Southern California
A Joint Venture of: Parsons Brinckerhoff Quade & Douglas, Inc. / Daniel, Mann, Johnson & Mendenhall / Kaiser Engineers (California) Corporation

DESIGNED BY J. ILANO
DRAWN BY F. DE CASTRO
CHECKED BY

Information confidential: all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission.

Work Element | Physical Entity | Contract Designator

SEE DWG NO. 0903 FOR THIS PART.

SEE DWG. NO. 0902 FOR THIS PART

SEE DWG. NO. 0942 FOR THIS PART.

MATCH LINE STA 13+00 SEE DWG NO CE-0917

CONSTRUCTION NOTES

1. REMOVE INTERFERING PORTIONS OF EXISTING CURB & GUTTER
3. REMOVE EXISTING A.C. PAVEMENT
4. CONSTRUCT 4" A.C PAVEMENT ON 6" A.B.
5. CONSTRUCT 8" CONCRETE CURB & GUTTER, PER CITY OF COMPTON STD. PLAN No. 1084-B
7. OVERLAY ¼" (MIN) A.C. RESURFACING LAYER & FEATHER EDGES FOR A SMOOTH JOIN.
9. SAWCUT & REMOVE 12" MIN FROM EDGE OF EXISTING PAVEMENT & JOIN.
10. SAWCUT & REMOVE EXISTING CURB & GUTTER & JOIN.
13. CONSTRUCT 4" R.C.C. SIDEWALK
21. CONSTRUCT CATCH BASIN
22. CONSTRUCT LOCAL DEPRESSION PER A.P.W.A STD. PLAN.
31. CONSTRUCT 18" RCP LATERAL, 1250D.

CURVE DATA

NO.	Δ	R	L	T
A	50° 25' 29"	45.00'	39.60'	21.19'
B	8° 34' 52"	745.34'	111.63'	55.92'
C	99° 19' 32"	70.00'	121.35'	82.43'
D	99° 19' 32"	50.00'	86.68'	58.88'
E	99° 31' 18"	25.00'	43.42'	29.54'
F	3° 49' 27"	3722.03'	248.43'	124.26'
G	3° 49' 27"	3710.03'	247.62'	123.86'
H	3° 37' 42"	3698.03'	234.18'	117.13'

PLAN
SCALE 1"=20'

PROFILE

PROPOSED SERVICE ROAD ℄ GRADE

TOP OF NORTHERLY CURVE

GRADE AT ℄

TOP OF SOUTHERLY CURB

FINAL DESIGN 85% REVIEW

AUG 09 1988

| | | |

NO	Δ	R	L	T
I	72° 30'27"	30.00'	37.96'	22.00'
J	110° 22'21"	30.00'	57.79'	43.14'
K	6° 47'55"	1224.09'	145.25'	72.71'
L	6° 47'55"	1212.09'	143.82'	72.00'
M	3° 57'07"	1200.09'	82.08'	41.05'
N	8° 43'11"	700.34'	106.58'	53.39'
O	7° 15'40"	688.34'	87.23'	43.67'
P	5° 50'05"	676.34'	68.87'	34.47'
Q	61° 09'52"	60.00'	64.05'	35.46'
R	62° 37'24"	45.00'	49.18'	27.37'
S	64° 02'59"	30.00'	33.54'	18.76'

PLAN
SCALE 1"=20'

PROFILE
SCALE 1"=4'

FINAL DESIGN
AUG 09 1988

85% REVIEW

STOCKWELL TO DEL AMO BLVD.
RAILROAD RELOCATION WORK
ROADWAY IMPROVEMENT

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

KaWES and Associates
Consulting Civil Engineers

Transit Consultants of Southern California
A Joint Venture of: Parsons Brinckerhoff Quade & Douglas, Inc.; Daniel, Mann, Johnson & Mendenhall; Kaiser Engineers (California) Corporation

DESIGNED BY J. ADRIANO
DRAWN BY F. DE CASTRO
CHECKED BY
APPROVED BY

CONTRACT NO. ROI-TOI
DRAWING NO. CE-09
REV.
SHEET NO. 85
SCALE

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Work Element | Physical Entity | Contract Designator | Line Item | Cost Element

CURVE DATA				
NO	△	R	L	T
(A)	16°28'25"	746.30'	214.57'	108.03'
(B)	51°07'46"	40.00'	35.70'	19.13'

SEE DWG. NO. 0904 FOR THIS PART

SEE DWG. 0917 FOR THIS PART

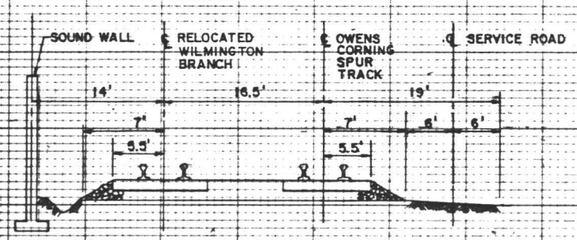
SEE DWG. NO. 0944 FOR THIS PART

SEE DWG. 0906 FOR THIS PART

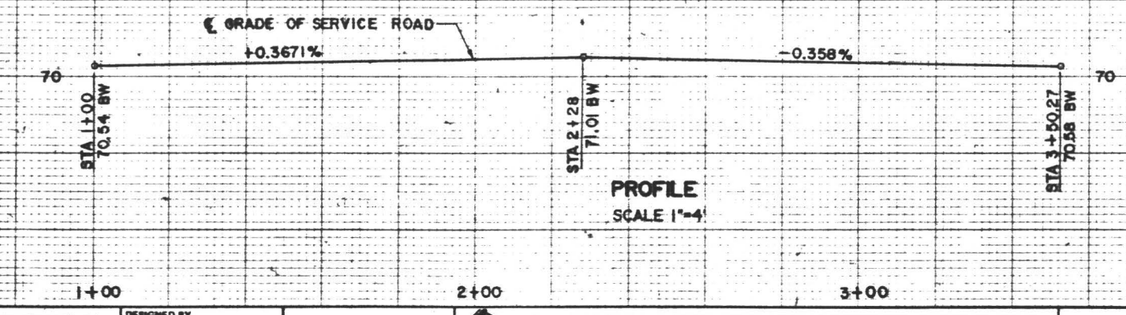
CONSTRUCTION NOTES:

1. REMOVE PORTIONS OF EXISTING CURB & GUTTER
5. CONSTRUCT 8" CONCRETE CURB & GUTTER PER CITY OF COMPTON STD. PLAN NO. 10848.
9. SAWCUT & REMOVE 12" MIN FROM EDGE OF EXISTING PAVEMENT & JOIN
23. CONSTRUCT DRIVEWAY AS PER CITY OF COMPTON STD PLAN 1124-C.

PLAN
SCALE 1"=20'



SECTION A-A
SCALE: NTS



PROFILE
SCALE 1"=4'

FINAL DESIGN

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CHECKED BY
APPROVED BY

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

KaWES and Associates
Consulting Civil Engineers

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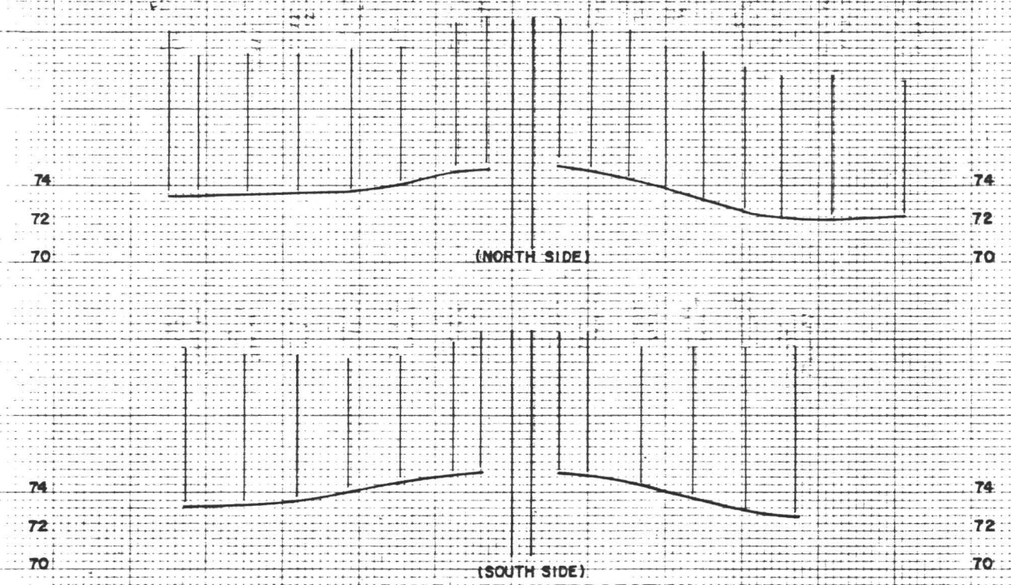
STOCKWELL TO DEL AMO BLVD.
RAILROAD RELOCATION WORK

ROADWAY IMPROVEMENT

CONTRACT NO. ROI-TOI-
DRAWING NO. CE-091
REV.
SHEET NO. 86
SCALE



PINE ST. INTERSECTION

FINAL DESIGN

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AUG 09 1988

HORIZ: 20' 0 20 40
1" = 20'-0" GRAPHIC SCALE

VERT: GRAPHIC SCALE

Work Element	Physical Entity	Contract Designator	Line Item	Cost Element

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DESIGNED BY R. Stralla
DRAWN BY Z. ONTIVEROS
CHECKED BY

LACTC

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

KaWEN and Associates
Consulting Civil Engineers

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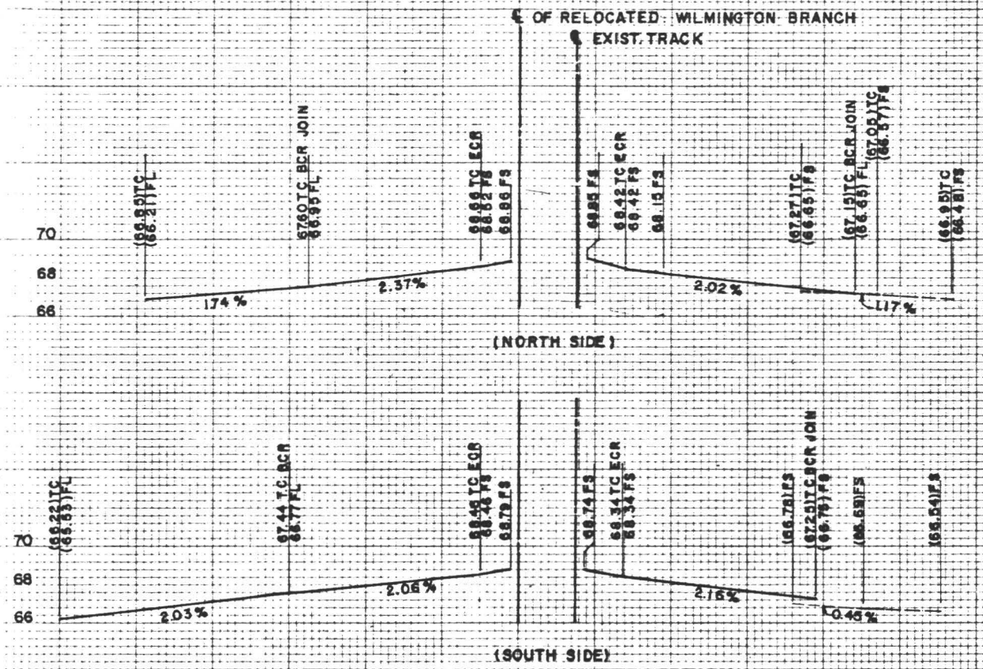
STOCKWELL TO DEL AMO BLVD.
RELOCATION AND SITE WORK
CURB RETURN PROFILE
PINE ST.

CONTRACT NO. RO1-TOI-
DRAWING NO. CE-0919
REV.
SHEET NO. 87



FINAL DESIGN

85% REVIEW

AUG 09 1988

HORIZ: 1"=20'-0" GRAPHIC SCALE (20 0 20 40)

VERT: 1"=4'-0" GRAPHIC SCALE (4 0 4 8)

Work Element	Physical Entity	Contract Designator	Line Item	Cost Element

Information contained on all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for

DESIGNED BY R Stinchcomb
DRAWN BY Z. ONTIVEROS
CHECKED BY
APPROVED BY

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The Long Beach-Los Angeles Rail Transit Project

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Consulting Civil Engineers

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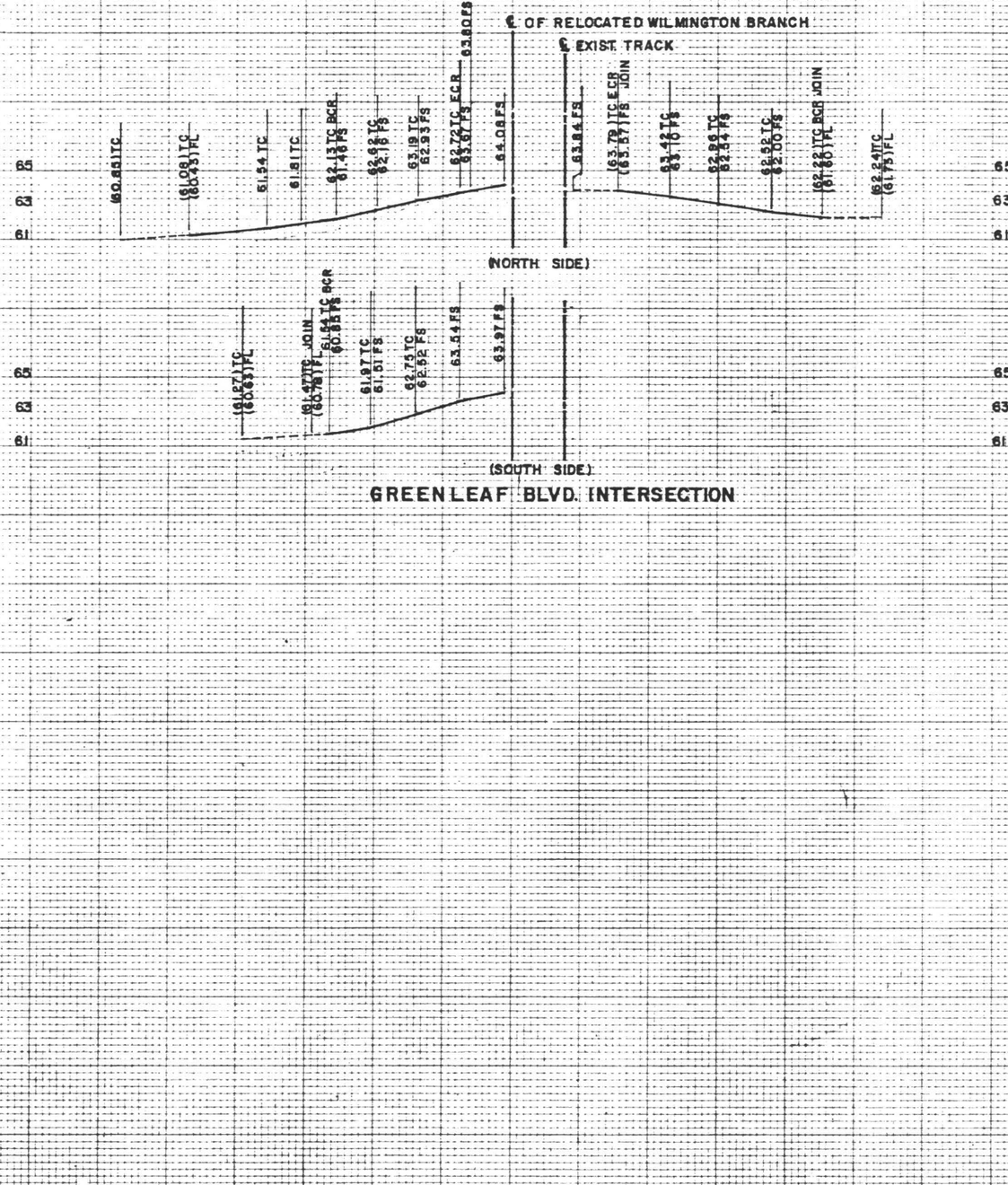
STOCKWELL TO DEL AMO BLVD.
RELOCATION AND SITE WORK
CURB RETURN PROFILE
COMPTON BLVD.
LAUREL ST.

CONTRACT NO. ROI-TOI-
DRAWING NO. CE-0920
REV.
SHEET NO. 88



GREENLEAF BLVD. INTERSECTION

FINAL DESIGN

85% REVIEW

AUG 09 1988

HORIZ: 20 0 20 40 — 1" = 20'-0" GRAPHIC SCALE

VERT: 4 0 4 8 — 1" = 4'-0" GRAPHIC SCALE

Work Element	Physical Entity	Contract Designator	Line Item	Cost Element

Information considered confidential: all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for

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DRAWN BY Z. ONTIVEROS
CHECKED BY
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The Long Beach-Los Angeles Rail Transit Project

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STOCKWELL TO DEL AMO BLVD.
RELOCATION AND SITE WORK
CURB RETURN PROFILE
GREENLEAF BLVD.

CONTRACT NO RO1-TO1-
DRAWING NO CE-0921
REV
SHEET NO. 89
SCALE

OAKS STREET

ECR 0+44.81

BCR JOIN EXIST CURB AND GUTTER SIDEWALK AT EL 71.20 ± (TC)

25' R

WHEEL CHAIR RAMP CASE I

TYPE A4 CURB & GUTTER WITH 5' SIDEWALK

10'

R/W

R/W

493'

0+00

REMOVE EXIST CURB & GUTTER

OVERLAY ASPHALT CONCRETE AND GRADE TO DRAIN

N 79312.31
E 20780.52

50

5+00

S7°22'09"E

10+00

E ALAMEDA STREET

25'(TYP)

TYPE E CURB & GUTTER

JOIN EXIST CURB & GUTTER

350'
CROSS SLOPE TRANSITION

N79,500 N79,250 N79,000 N78,750 N78,600 N78,250

MATCH LINE STA 11+00 SEE DWG CE-0926

E21,0

W ALAMEDA STREET

ORIS STREET

MEALY STREET

NOTE: ROADWAY CONSTRUCTION DETAIL SEE DWG CE-0927

PLAN
SCALE: 1" = 50'

STA. 0+00 EL 71.62
℄ OAK STREET

EXIST. GROUND

+0.12 %

VPI STA. 7+30
EL. 72.52

-0.23 %

EL. 71.72

80 75 70 65

0+00 5+00 10+00

PROFILE
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

HORIZ. 50 0 50 100' scale feet

VERT. 5 0 5 10 scale feet

FINAL DESIGN

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AUG 09 1988

Work Element	Physical Entity	Contract Designator	Line Item	Cost Element

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DRAWN BY R. Cardenas
CHECKED BY

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The Long Beach-Los Angeles Rail Transit Project

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STOCKWELL TO DEL AMO BLVD RAILROAD RELOCATION WORK

EAST ALAMEDA STREET

CONTRACT NO. ROI-TO I-
DRAWING NO. CE-0925
REV.
SHEET NO.

N78,500 N78,250 N78,000 N77,750 N77,500 N77,250

E21,000

E20,750

MATCH LINE STA 11+00 SEE DWG CE-0925

TYPE A4 CURB & GUTTER WITH 5' SIDEWALK

10'

R/W

300' TRANSITION

JOIN EXIST CURB & GUTTER

50'

S7°22'09"E

25'(TYP)

15+00

E ALAMEDA STREET

36'

OVERLAY ASPHALT CONCRETE

20+00

20+83.76
N77245.76
E21047.79

TYPE E CURB & GUTTER

17+70.66

JOIN EXIST CURB AND GUTTER AT EXIST BCR

W ALAMEDA STREET

AVENUE

MEALY STREET

ROSECRANS

SPRUCE STREET

NOTE: ROADWAY CONSTRUCTION DETAIL SEE DWG CE-0927

PLAN
SCALE: 1" = 50'

FINAL DESIGN

85% REVIEW

AUG 09 1988

80
75
70
65

EL 71.72

-0.23 %

EXIST GROUND

6 FL STA 20+46.50
EL 69.34 (EXIST)

STA 20+83.76
EL 70.30 (EXIST)

15+00

20+00

HORIZ. 50 0 50 100 scale feet

VERT. 5 0 5 10 scale feet

PROFILE
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

Work Element	Physical Entity	Contract Designator	Line Item	Cost Element

Information contained on all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for

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DRAWN BY R. Cardenas
CHECKED BY
APPROVED BY

LACTC
LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

Parsons Brinckerhoff Quade & Douglas, Inc.

Transit Consultants of Southern California
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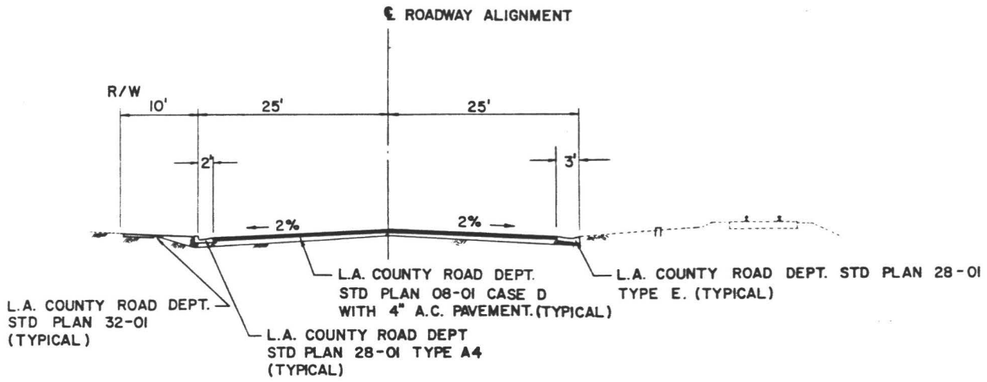
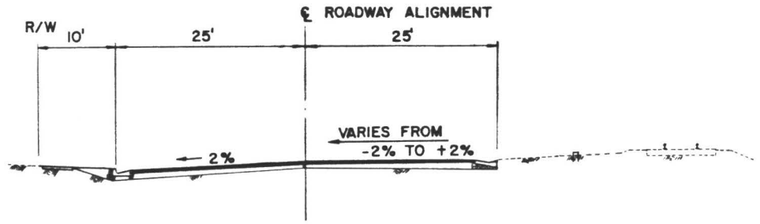
STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
EAST ALAMEDA STREET

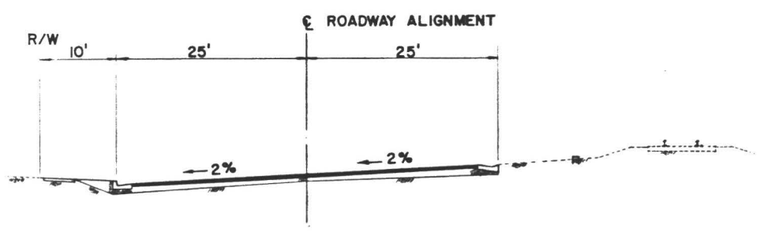
CONTRACT NO. RO1-TO 1
DRAWING NO. CE-0926
REV.
SHEET NO.
SCALE



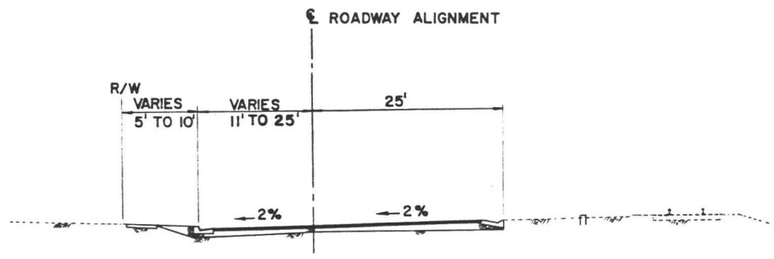
STA 0 + 00 TO STA 2 + 00



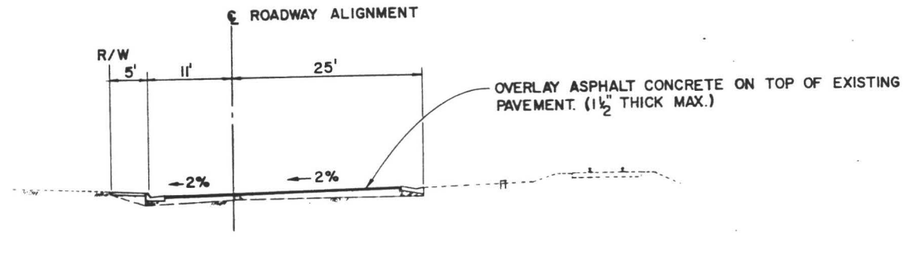
STA 2 + 00 TO STA 3 + 50



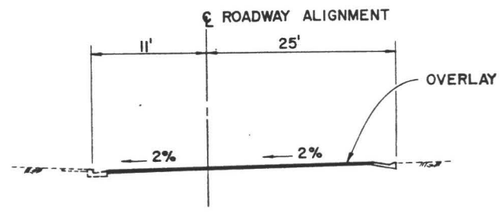
STA 3 + 50 TO STA 14 + 00



STA 14 + 00 TO STA 17 + 00



STA 17 + 00 TO STA 19 + 12



STA 19 + 12 TO STA 20 + 46.50

FINAL DESIGN

85% REVIEW

AUG 09 1988

NOTE:
FOR PLAN & PROFILE SEE DWG NO. CE-0925 & CE-0926.

Work Element | Physical Entity | Contract Designator | Line Item | Cost Element

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DRAWN BY R. Ordonez
CHECKED BY
APPROVED BY

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The Long Beach-Los Angeles Rail Transit Project

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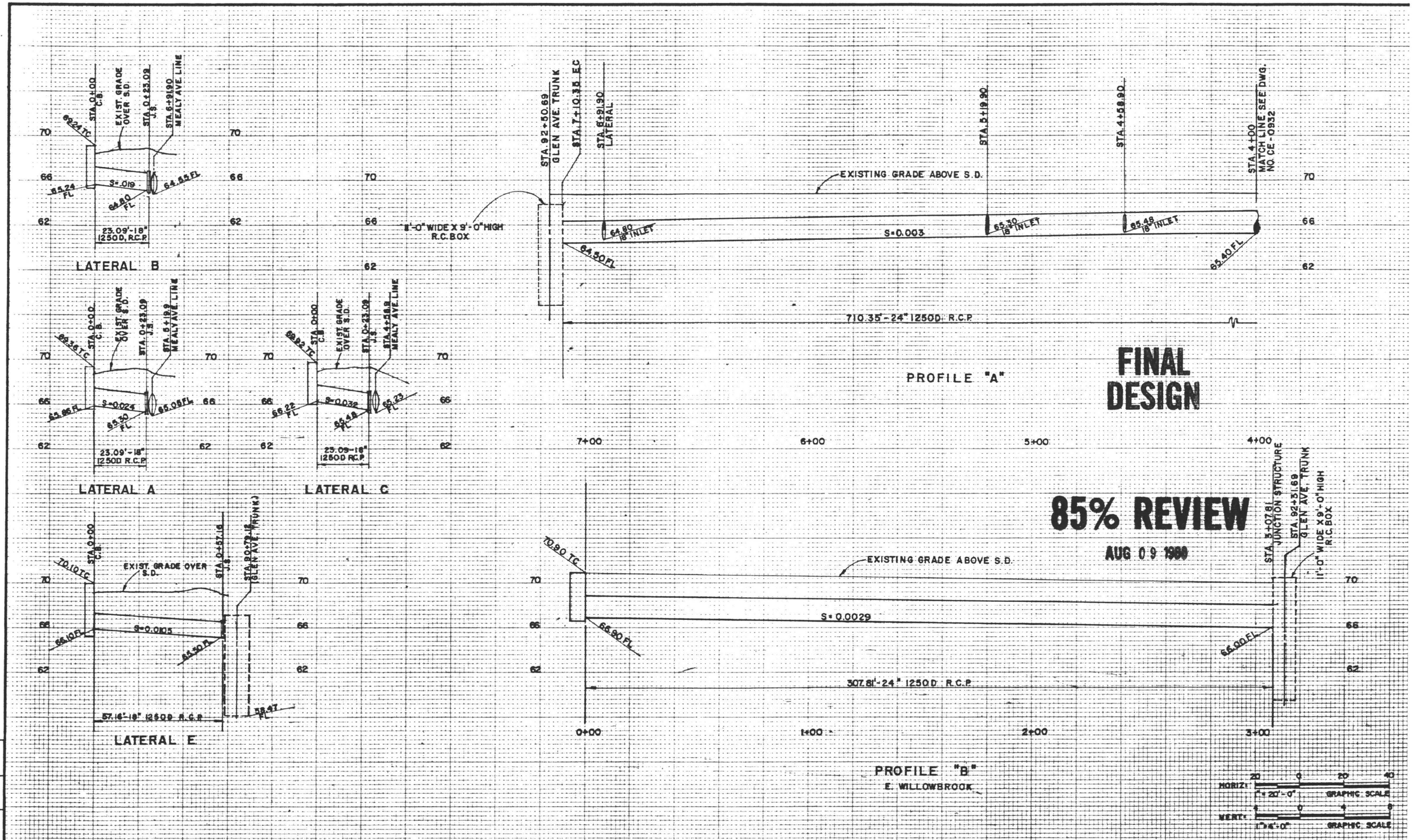
STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
EAST ALAMEDA STREET

CONTRACT NO. RO1-TO1-
DRAWING NO. CE-0927
REV.
SHEET NO. 9



FINAL DESIGN

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AUG 09 1980

Work Element	Physical Entity	Contract Designator	Line Item	Cost Element

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DRAWN BY Z. ONTIVEROS
CHECKED BY
APPROVED BY

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The Long Beach-Los Angeles Rail Transit Project

KaWES and Associates
Consulting Civil Engineers

Transit Consultants of Southern California
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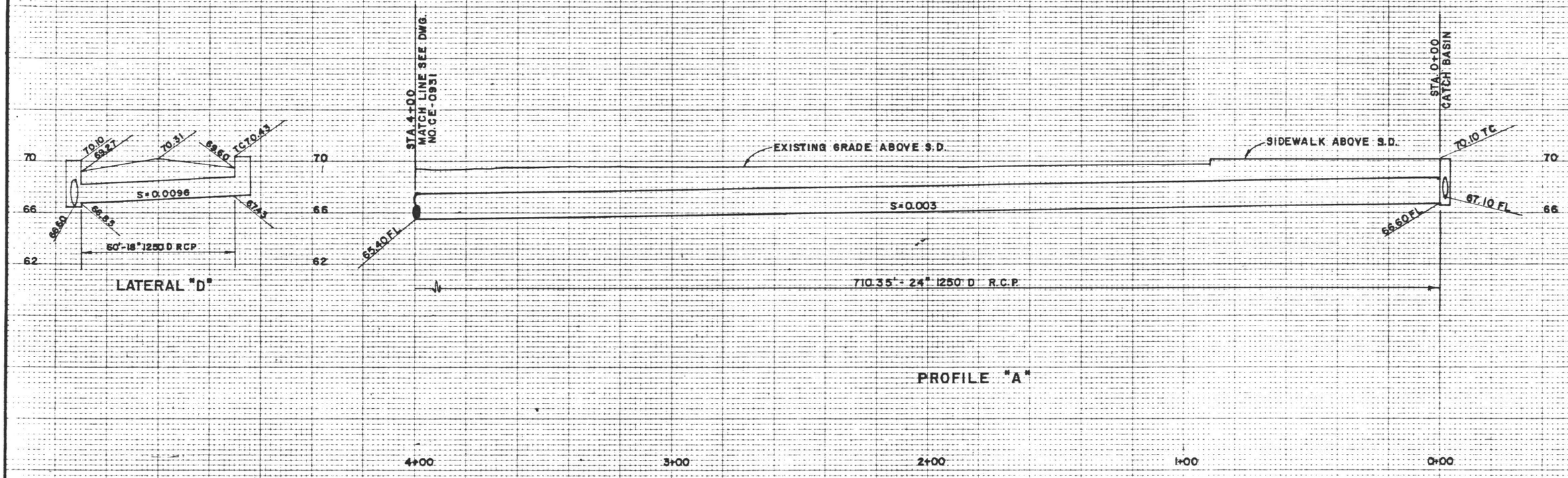
STOCKWELL TO DEL AMO BLVD.
RELOCATION AND SITE WORK
DRAINAGE

CONTRACT NO. R01-T01-
DRAWING NO. CE-0931
REV.
SHEET NO. 93
SCALE



PROFILE "A"

FINAL DESIGN

85% REVIEW

AUG 08 1988

HORIZ. 20 0 20 40 — 1" = 20'-0" GRAPHIC SCALE

VERT. 4 0 4 8 — 1" = 4'-0" GRAPHIC SCALE

Work Element | Physical Entity | Contract Designator | Line Item | Cost Element

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DRAWN BY I. ONTIVEROS
CHECKED BY
APPROVED BY

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The Long Beach-Los Angeles Rail Transit Project

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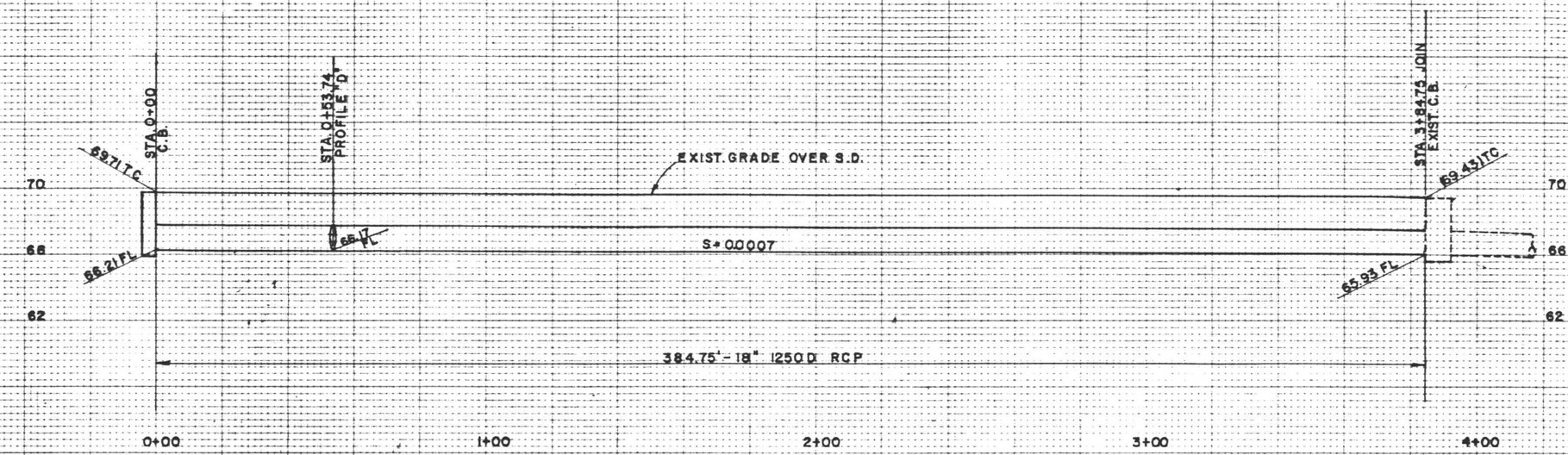
- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation

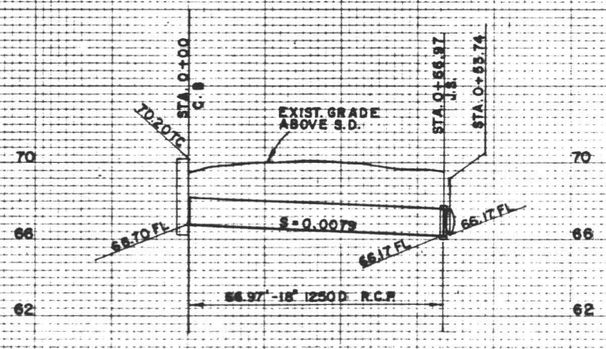
STOCKWELL TO DEL AMO BLVD.
RELOCATION AND SITE WORK

DRAINAGE

CONTRACT NO. ROI-TOI-
DRAWING NO. CE-0932
REV.
SHEET NO. 94
SCALE



PROFILE "C"



PROFILE "D"

FINAL DESIGN

85% REVIEW

AUG 09 1988

HORIZ: 20 0 20 40 — 1" = 20'-0" GRAPHIC SCALE

VERT: 4 0 4 8 — 1" = 4'-0" GRAPHIC SCALE

Cost Element	Line Item	Contract Designator	Physical Entity	Work Element

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DRAWN BY Z. ONTIVEROS
CHECKED BY

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The Long Beach-Los Angeles Rail Transit Project

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Consulting Civil Engineers

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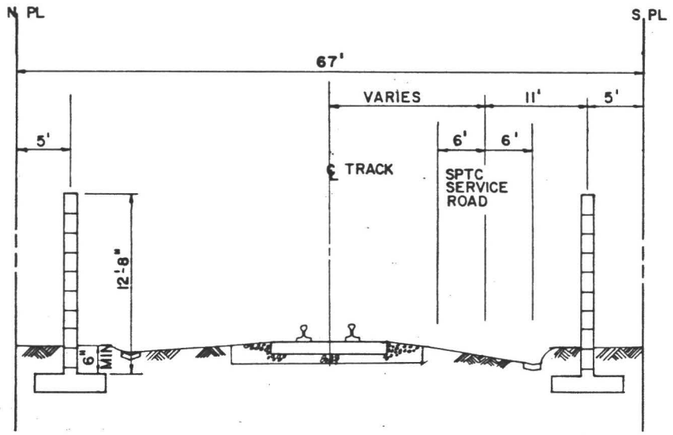
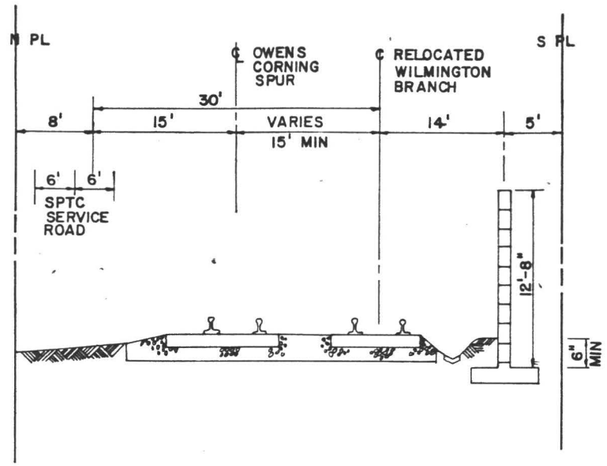
STOCKWELL TO DEL AMO BLVD.
RELOCATION AND SITE WORK
DRAINAGE

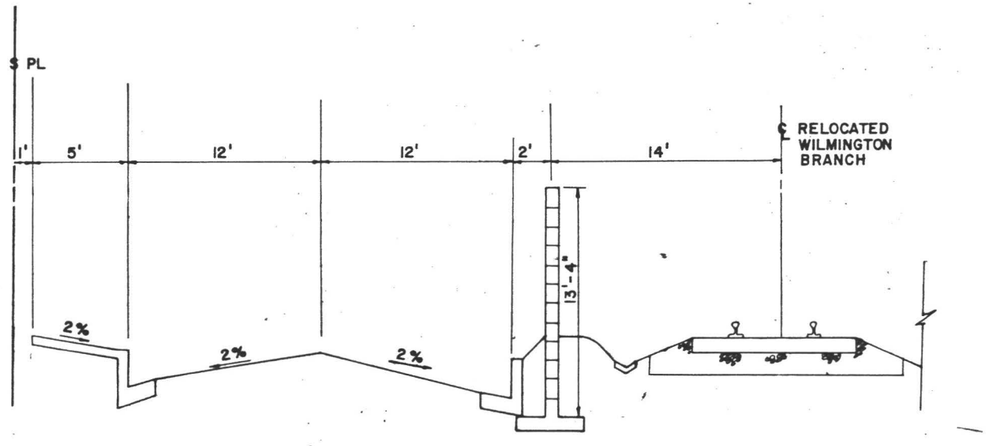
CONTRACT NO. ROI-TOI-
DRAWING NO. CE-0933
REV.
SHEET NO. 95



SECTION BETWEEN MONA & WILLOWBROOK



SECTION BETWEEN TAMARIND & W. ALAMEDA



SECTION BETWEEN MONA & TAMARIND

FINAL DESIGN

85% REVIEW

AUG 09 1988

Work Element	Physical Entity	Contract Designator	Line Item	Cost Element

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DESIGNED BY J. ILANO
DRAWN BY
CHECKED BY
APPROVED BY

LACTC **LOS ANGELES COUNTY TRANSPORTATION COMMISSION**
The Long Beach-Los Angeles Rail Transit Project

KaWES and Associates
Consulting Civil Engineers

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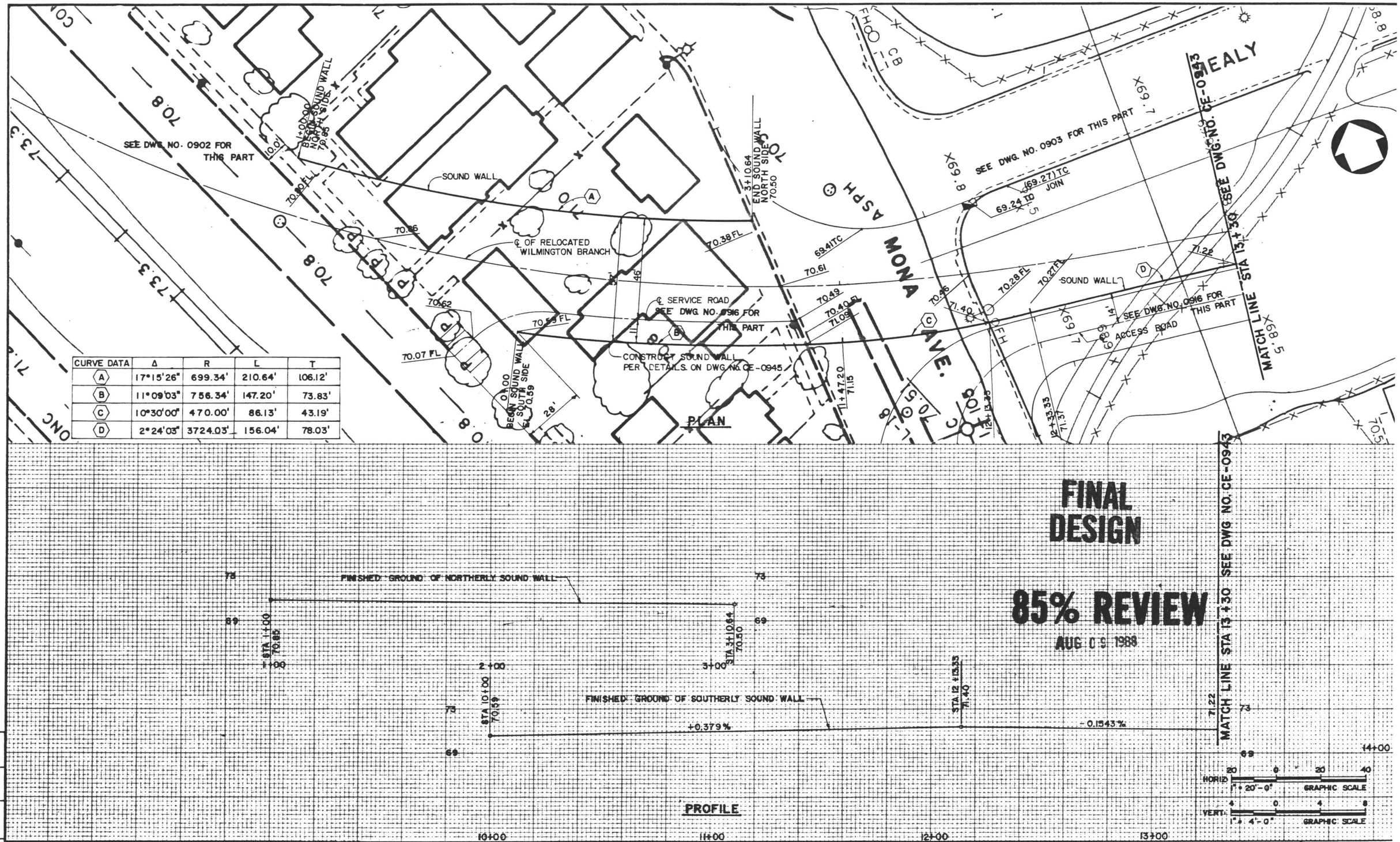
STOCKWELL TO DEL AMO BLVD.
RELOCATION AND SITE WORK
SOUND WALL CROSS SECTIONS

CONTRACT NO. ROI-TOI-R
DRAWING NO. CE-0941
REV.
SHEET NO. 98



CURVE DATA	Δ	R	L	T
A	17°15'26"	699.34'	210.64'	106.12'
B	11°09'03"	756.34'	147.20'	73.83'
C	10°30'00"	470.00'	86.13'	43.19'
D	2°24'03"	3724.03'	156.04'	78.03'

FINAL DESIGN

85% REVIEW

AUG 09 1988

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DESIGNED BY J. ILANO
DRAWN BY F. DE CASTRO
CHECKED BY

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

KaWES and Associates
Consulting Civil Engineers

Transit Consultants of Southern California
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STOCKWELL TO DEL AMO BLVD.
RAILROAD RELOCATION WORK

SOUND WALL PLAN & PROFILE

CONTRACT NO. ROI-TOI-
DRAWING NO. CE-0942
REV.
SHEET NO. 99
SCALE

CURVE DATA	Δ	R	L	T
(E)	1°26'24"	3724.03'	93.60'	46.80'
(F)	6°47'55"	1226.09'	145.49'	72.83'

MEALY

MATCH LINE STA 13+30 SEE DWG NO. CE-0942

℄ OF RELOCATED WILMINGTON BRANCH

SOUND WALL

℄ ACCESS ROAD

SEE DWG. NO. 0917 FOR THIS PART

SEE DWG. NO. 0904 FOR THIS PART

MULBERRY ST.

TAMARIND AVE.

BERM

MATCH LINE STA. 19+00 SEE DWG. No. CE-0944

FINISHED GROUND OF SOUTHERLY SOUND WALL

-0.155I%

10.15%

MATCH LINE STA 13+30 SEE DWG NO. CE-0942

MATCH LINE STA. 19+00 SEE DWG. No. CE-0944

14+00 15+00 16+00 17+00 18+00 19+00

HORIZ: 1" = 20'-0" GRAPHIC SCALE 20 0 20 40

VERT: 1" = 4'-0" GRAPHIC SCALE 4 0 4 8

FINAL DESIGN

85% REVIEW

AUG 0 9 1988

Work Element | Physical Entity | Contract Designator | Line Item | Cost Element

Information confidential: all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for

DESIGNED BY J. A. ILANO
DRAWN BY F. DE CASTRO
CHECKED BY

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

LACTC

KaWEN and Associates
Consulting Civil Engineers

Transit Consultants of Southern California
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STOCKWELL TO DEL AMO BLVD.
RAILROAD RELOCATION WORK

SOUND PLAN & PROFILE

CONTRACT NO. RO1-TO1-
DRAWING NO. CE-0943
REV.
SHEET NO. 10

CURVE DATA	Δ	R	T	L
(G)	36°03'07"	702.34	228.56'	441.93'

TAMARIND AVE.

SEE DWG. 0904 FOR THIS PART

MATCH LINE STA. 19+00 SEE DWG. No. CE 0943

SEE DWG. 0918 FOR THIS PART

℄ SERVICE ROAD

℄ OF RELOCATED WILMINGTON BRANCH

SOUND WALL

14'

SEE DWG. 0944 FOR THIS PART

ALAMEDA

SEE DWG. 0906 FOR THIS PART

22+09.27 END SOUND WALL SOUTH SIDE

MATCH LINE STA. 19+00 SEE DWG. No. CE-0943

PROPOSED EDGE OF SOUND WALL

F.G. 15 %

STA 22+09.27 71.08

END OF SOUND WALL SOUTH SIDE

22+00

HORIZ: 20 0 20 40 — 1" = 20'-0" GRAPHIC SCALE

VERT: 4 0 4 8 — 1" = 4'-0" GRAPHIC SCALE

18+00 19+00 20+00 21+00

FINAL DESIGN

85% REVIEW

AUG 09 1988

Work Element | Physical Entity | Contract Designator | Line Item | Cost Element

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DRAWN BY F. DE CASTRO

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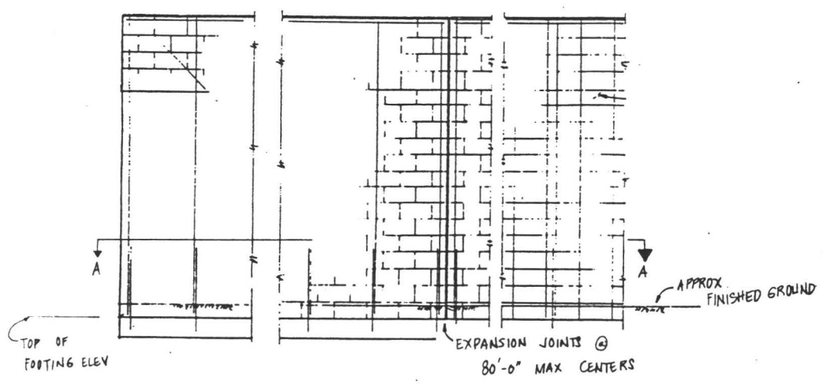
STOCKWELL TO DEL AMO BLVD.
RAILROAD RELOCATION WORK

SOUND WALL PLAN & PROFILE

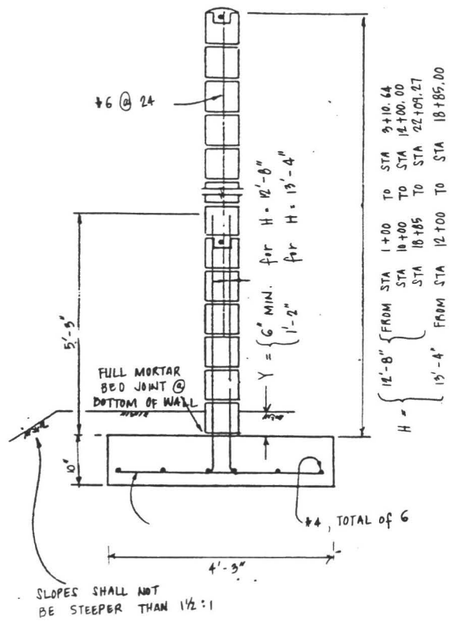
CONTRACT NO. ROI-TOI-

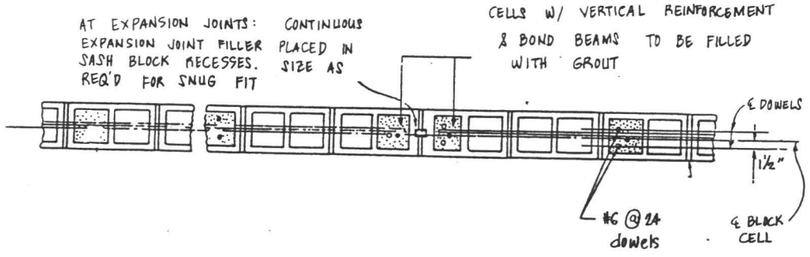
DRAWING NO. CE-094

REV. | SHEET NO. 101



ELEVATION





SECTION A-A

NOTES:

A. USE 8"x 8"x 16" MEDIUM WEIGHT BLOCK RUNNING BOARD.
B. JOINTS SHALL BE TOOLED CONCAVE OR MAY BE WEATHERED.
C. UNIFORM BUILDING CODE. 1979 EDITION AND THE BRIDGE DESIGN SPECIFICATIONS.

DESIGN WIND LOAD
15 psf

DESIGN SEISMIC LOAD
0.3 DEAD LOAD

REINFORCED CONCRETE
f'c = 2,700 psi
fy = 60,000 psi
n = 10

CONCRETE MASONRY

PARTIAL GROUT
f'm = 1,350 psi
fm = 450 psi
fs = 24,000 psi
n = 22

SOLID GROUT
f'c = 2,000 psi
n = 20

FINAL DESIGN

85% REVIEW

AUG 09 1988

Cost Element	Line Item	Contract Designator	Physical Entity	Work Element

Information confidential: all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for

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APPROVED BY

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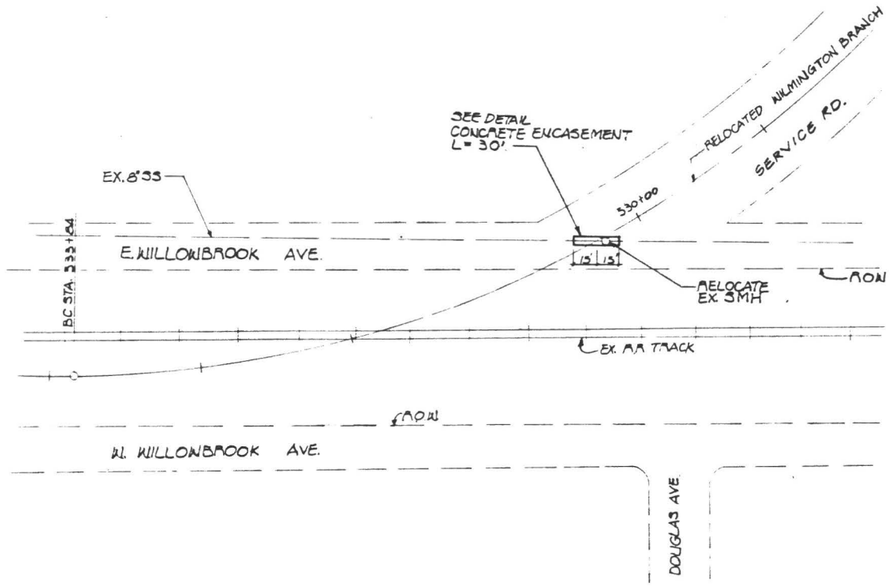
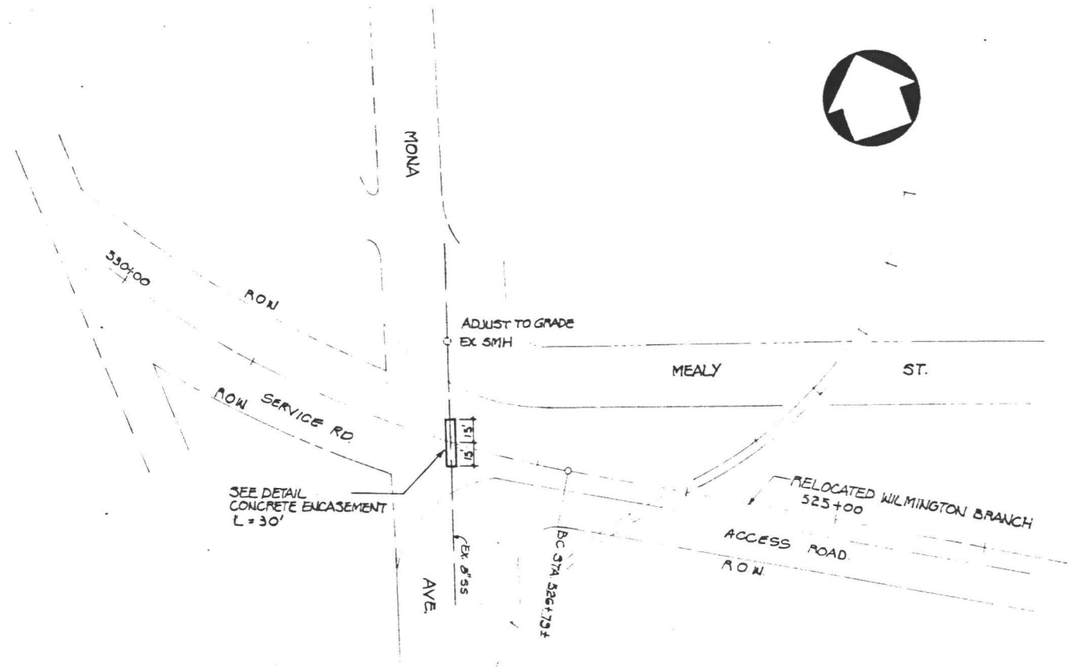
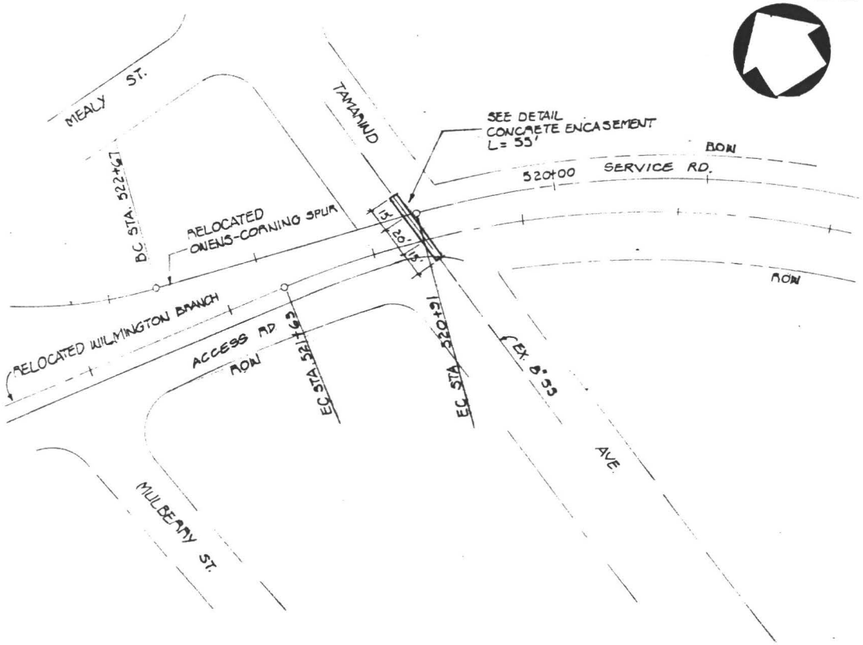
STOCKWELL TO DEL AMO BLVD.
RAILROAD RELOCATION WORK

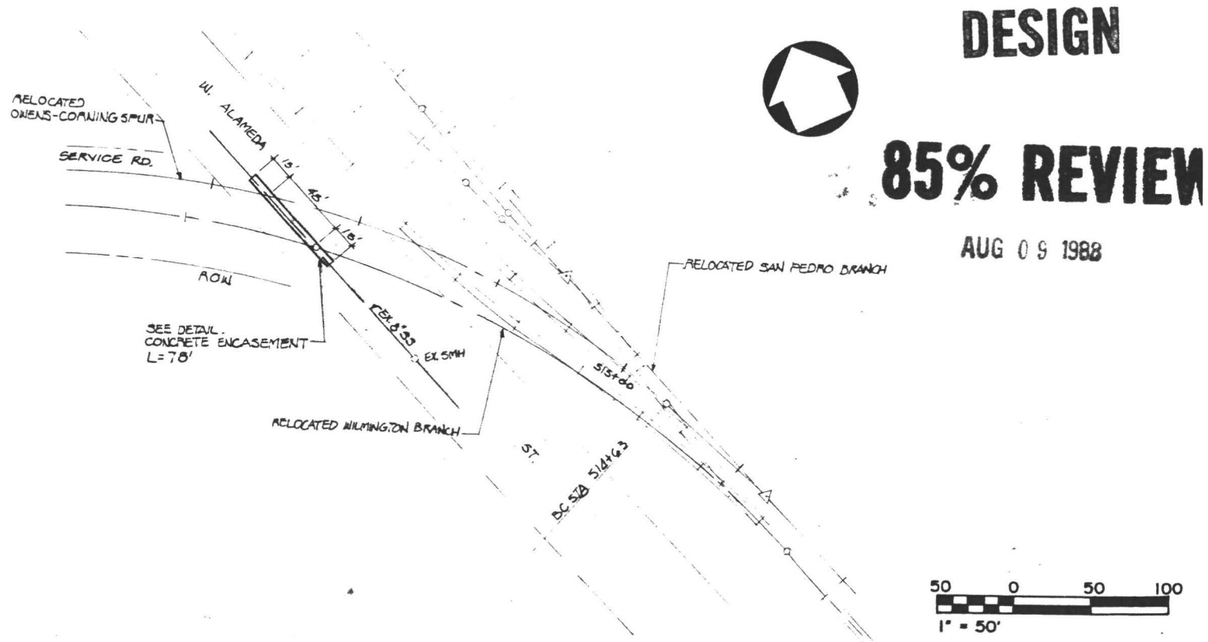
SOUND WALL DETAIL

CONTRACT NO. ROI-TOI-
DRAWING NO. CE-094
REV.
SHEET NO. 102
SCALE









50 0 50 100
1" = 50'

FINAL DESIGN

85% REVIEW

AUG 09 1988

Work Element	Physical Entity	Contract Designator	Line Item	Cost Element

Information confidential: all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for

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DRAWN BY R. SHUN
CHECKED BY

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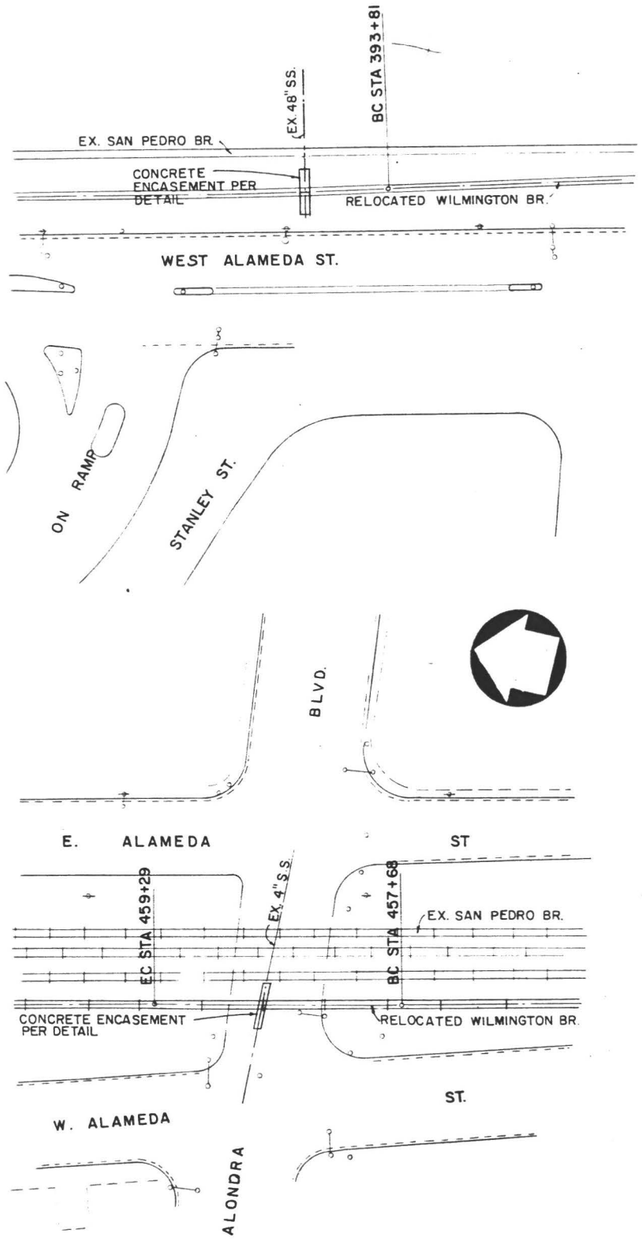
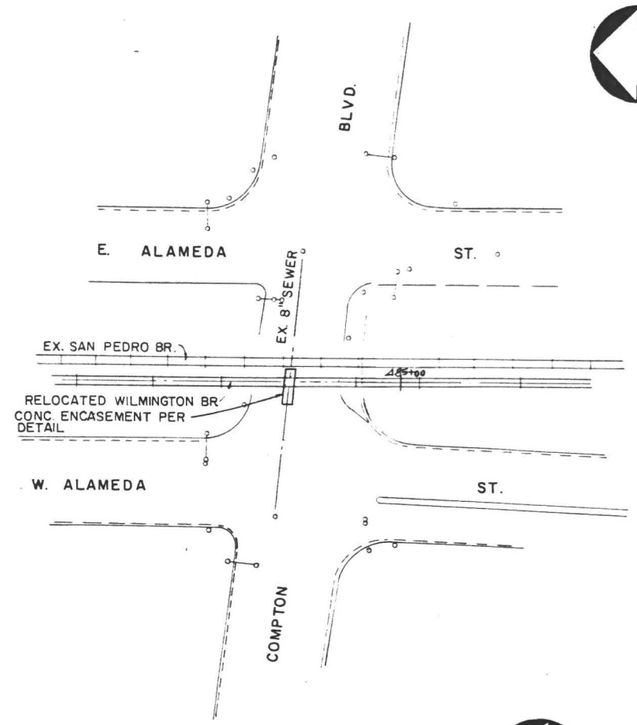
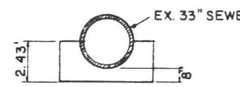
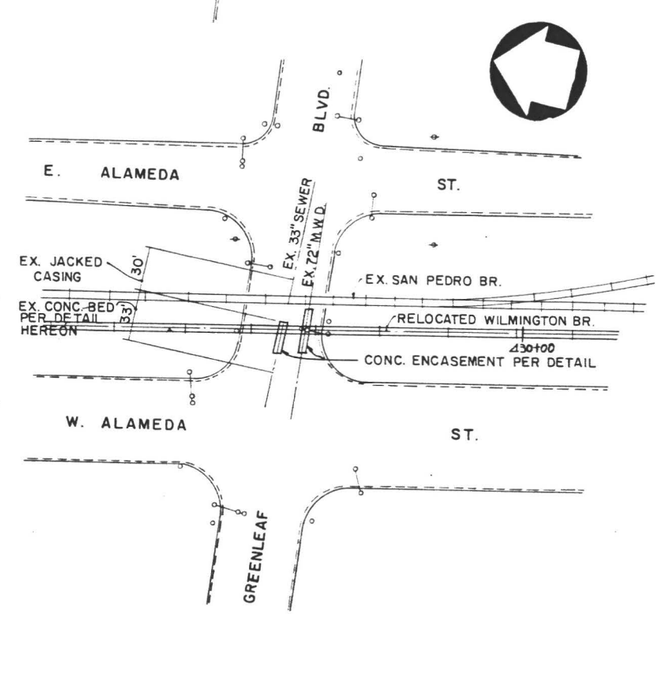
STOCKWELL TO DEL AMO BLVD.
RAILROAD RELOCATION WORK
UTILITY CROSSING

CONTRACT NO. ROI-TOI
DRAWING NO. CE-09
REV.
SHEET NO. 103









FINAL DESIGN

85% REVIEW

AUG 09 1988

50 0 50 100
1"=50' HORIZ.

Work Element	Physical Entity	Contract Designator	Line Item	Cost Element

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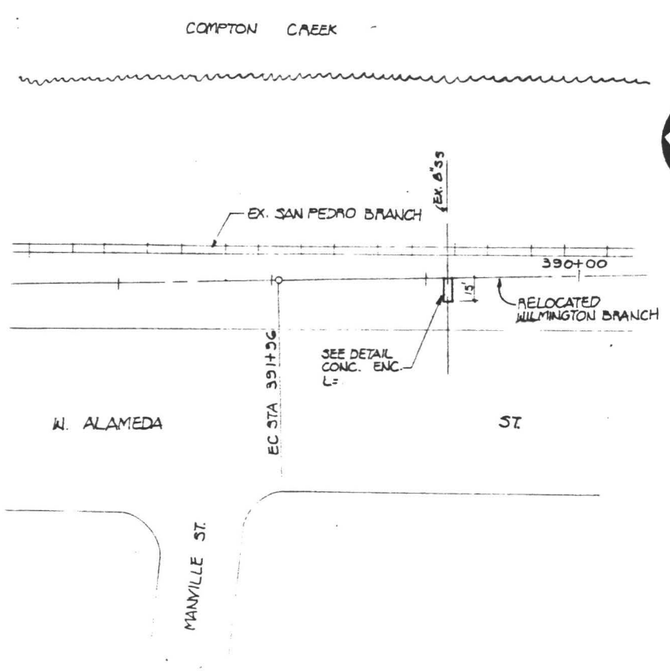
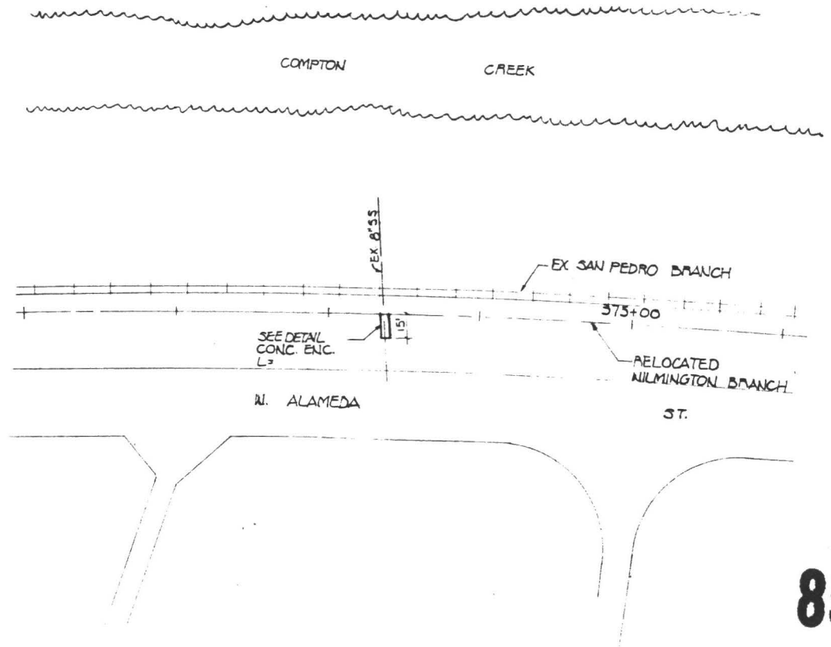
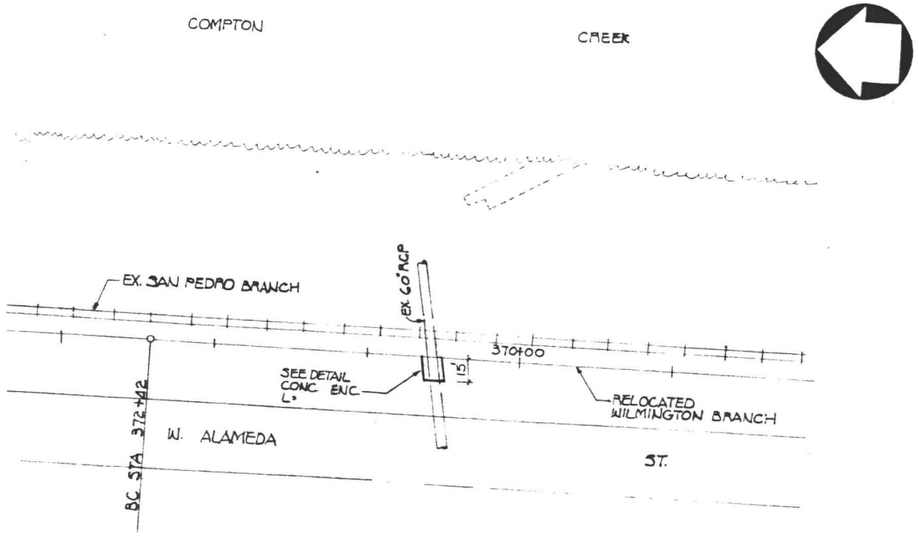
STOCKWELL TO DEL AMO BLVD. RAILROAD RELOCATION WORK

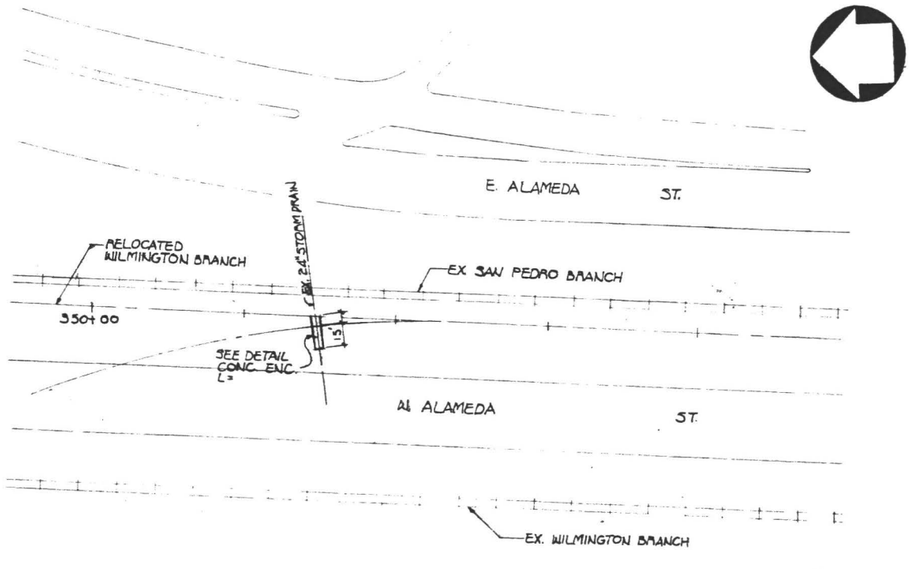
UTILITY CROSSING

CONTRACT NO. RQI-TOI
DRAWING NO. CE-05
REV.
SHEET NO. 104









FINAL DESIGN

85% REVIEW

AUG 09 1988

50 0 50 100
1" = 50' HORIZ.

Work Element	Physical Entity	Contract Designator	Line Item	Cost Element

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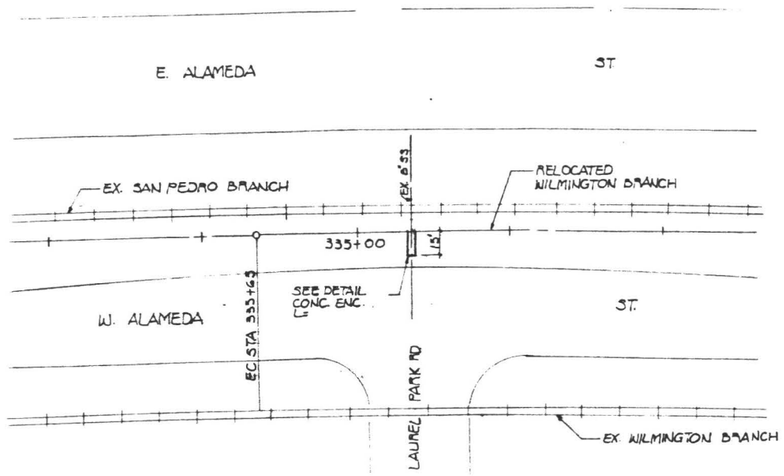
STOCKWELL TO DEL AMO BLVD. RAILROAD RELOCATION WORK

UTILITY CROSSING

CONTRACT NO. ROI-TOI
DRAWING NO. CE-05
REV.
SHEET NO. 105



ENCASEMENT SCHEDULE

NO.	STREET	STATION	DIA.	L	H
1.	WILLOWBROOK	330+33	8'SS	30'	
2	MONA	327+60	8'SS	30'	
3.	TAMARIND	320+99	8'SS	50'	
4	W. ALAMEDA	317+64	8'SS	78'	6'
5	COMPTON	485+85	8'SS	15'	
6	ALONDRA	458+60	4'SS	15'	
7	GREENLEAF	431+58	33'SS	15'	12'
8	GREENLEAF	431+42	72"MBID	15'	
9	STANLEY	334+36	48'SS	15'	3'
10	MANVILLE	330+81	8'SS	15'	
11	W. ALAMEDA	376+64	4'SS	15'	
12	W. ALAMEDA	370+57	60"RCP	15'	
13	W. ALAMEDA	348+34	24'SD	22'	
14	LAUREL	334+65	18'SS	15'	

FINAL DESIGN

85% REVIEW

AUG 0 9 1988

50 0 50
1" = 50' HORIZ

Work Element	Physical Entity	Contract Designator	Line Item	Cost Element

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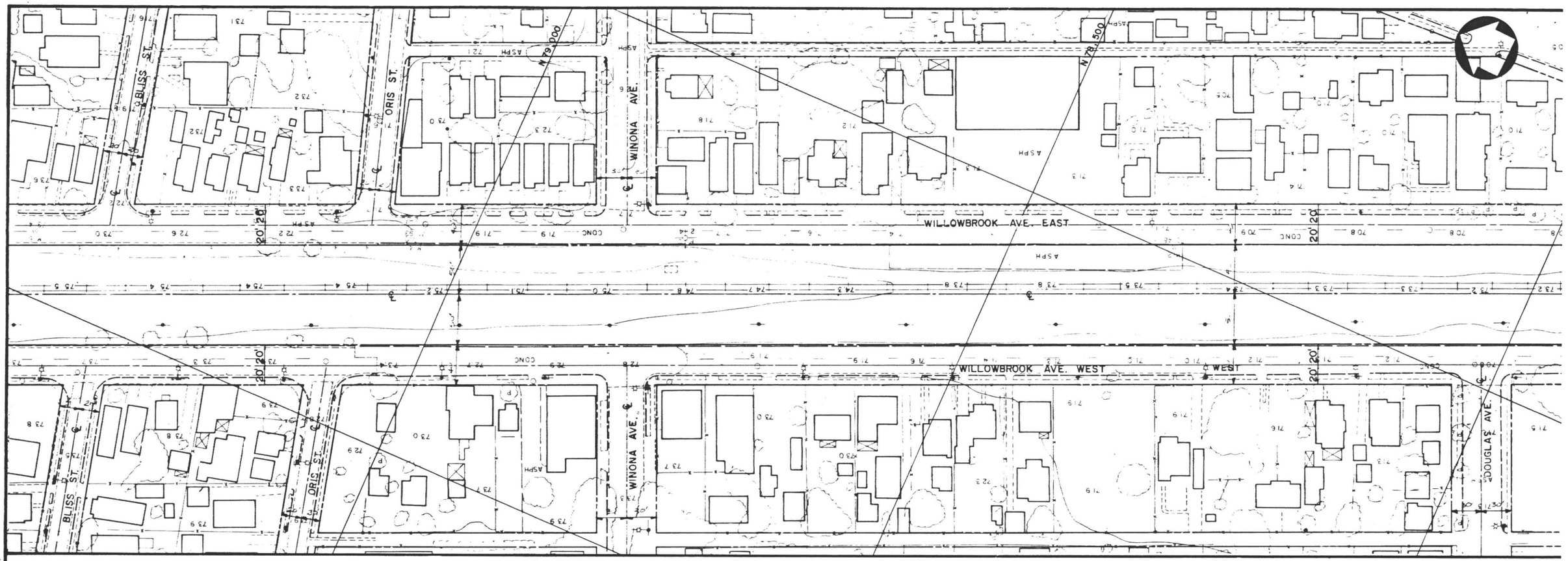
- Kaiser Engineers (California) Corporation

STOCKWELL TO DEL AMO BLVD.
RAILROAD RELOCATION WORK

UTILITY CROSSING AND DETAIL

CONTRACT NO. R01-TO
DRAWING NO. CE-0
REV.
SHEET NO. 106



FINAL DESIGN

85% REVIEW

AUG 09 1988

50 0 50 100
1" = 50'-0" GRAPHIC SCALE

Cost Element	Line Item	Contract Designator	Physical Entity	Work Element

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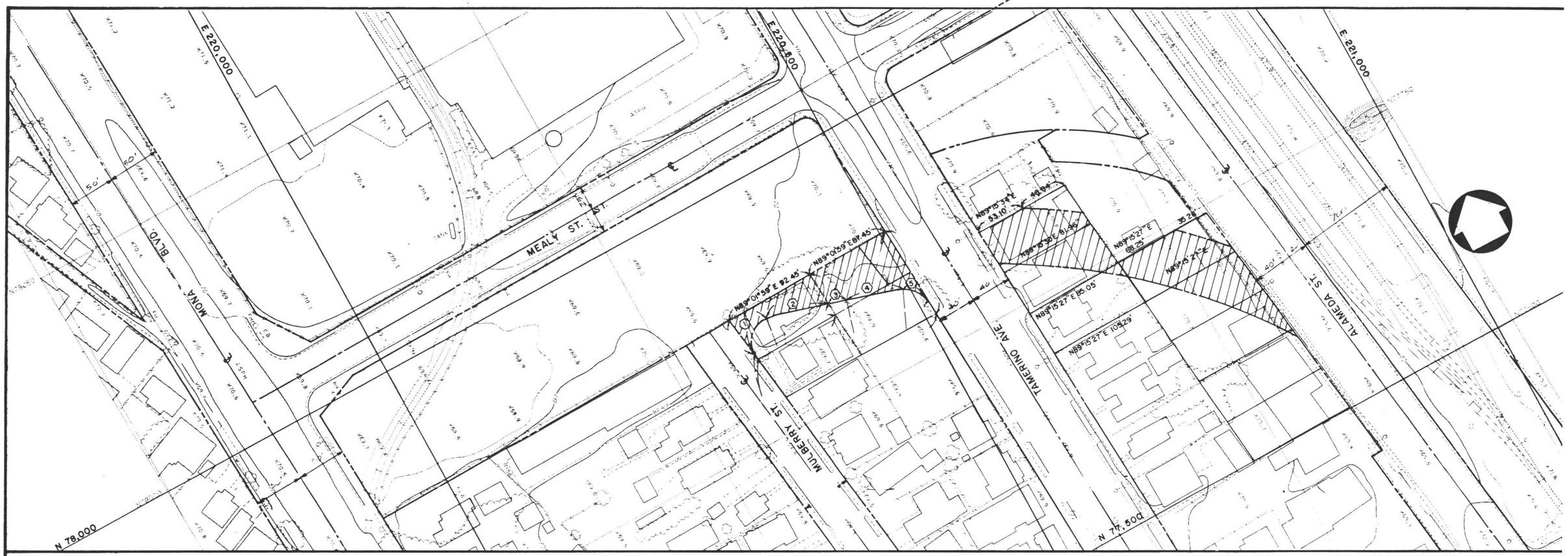
STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
BASE PROPERTY MAP SH 1

CONTRACT NO. R01-T01-
DRAWING NO. RW-09
REV.
SHEET NO. 10



FINAL DESIGN

85% REVIEW

AUG 09 1988

50 0 50
1" = 50'-0" GRAPHIC SC

Cost Element	Line Item	Contract Designator	Physical Entity	Work Element

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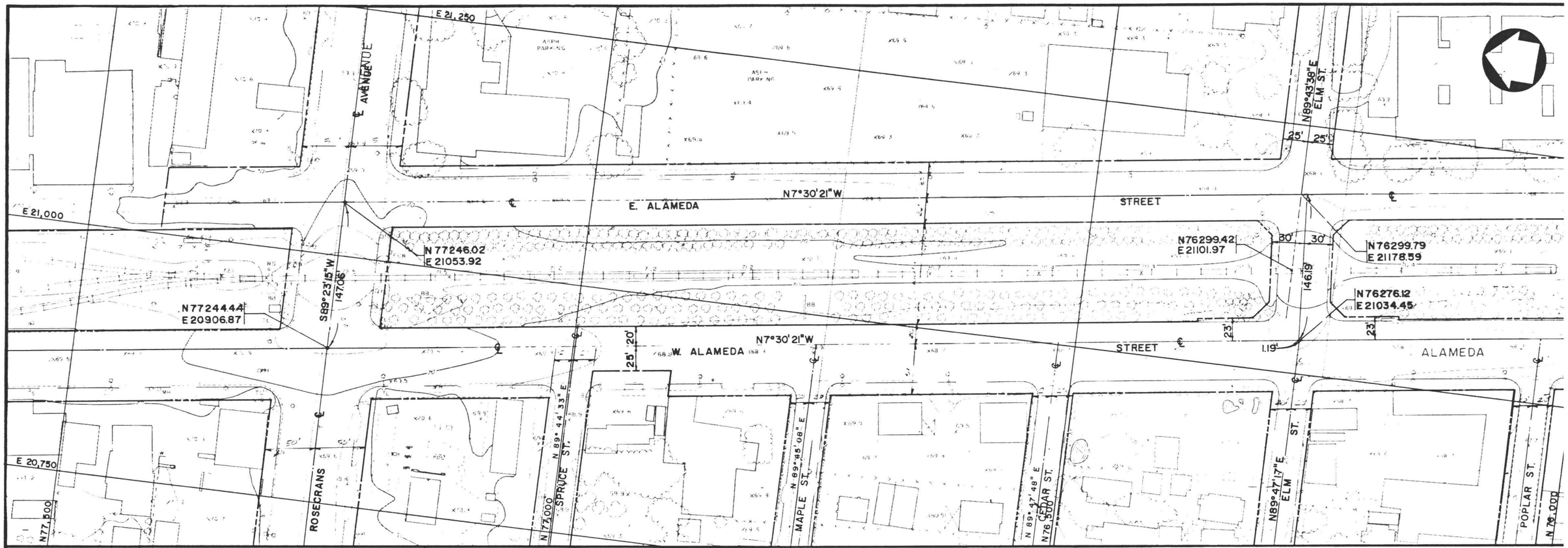
STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
BASE PROPERTY MAP SH 2

CONTRACT NO. R01-"01-
DRAWING NO. RW-0
REV.
SHEET NO. 1C



FINAL DESIGN

85% REVIEW

AUG 09 1988

50 0 50
1" = 50' - 0" GRAPHIC SCAL

Cost Element	Line Item	Contract Designator	Physical Entity	Work Element

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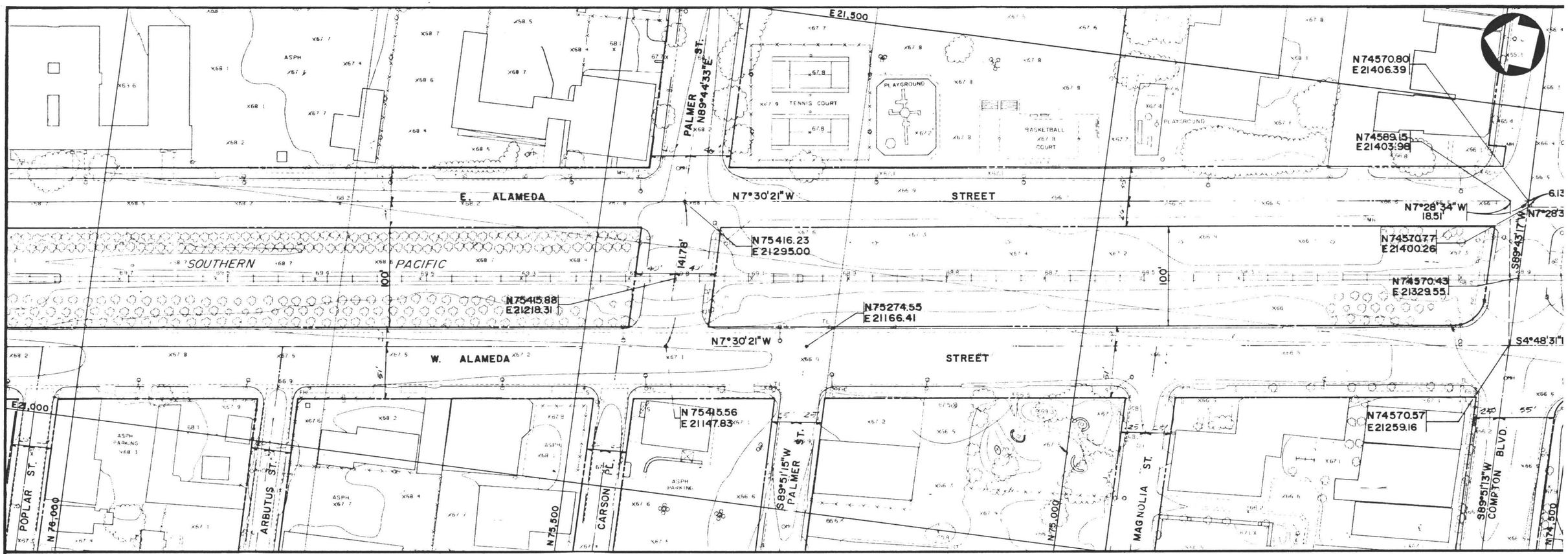
STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK

BASE PROPERTY MAP SH 3

CONTRACT NO. R01-T01-
DRAWING NO. RW-0S
REV.
SHEET NO. 1C



FINAL DESIGN

85% REVIEW

AUG 09 1988

50 0 50
1" = 50'-0" GRAPHIC SCA

Work Element	Physical Entity	Contract Designator	Line Item	Cost Element

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STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK

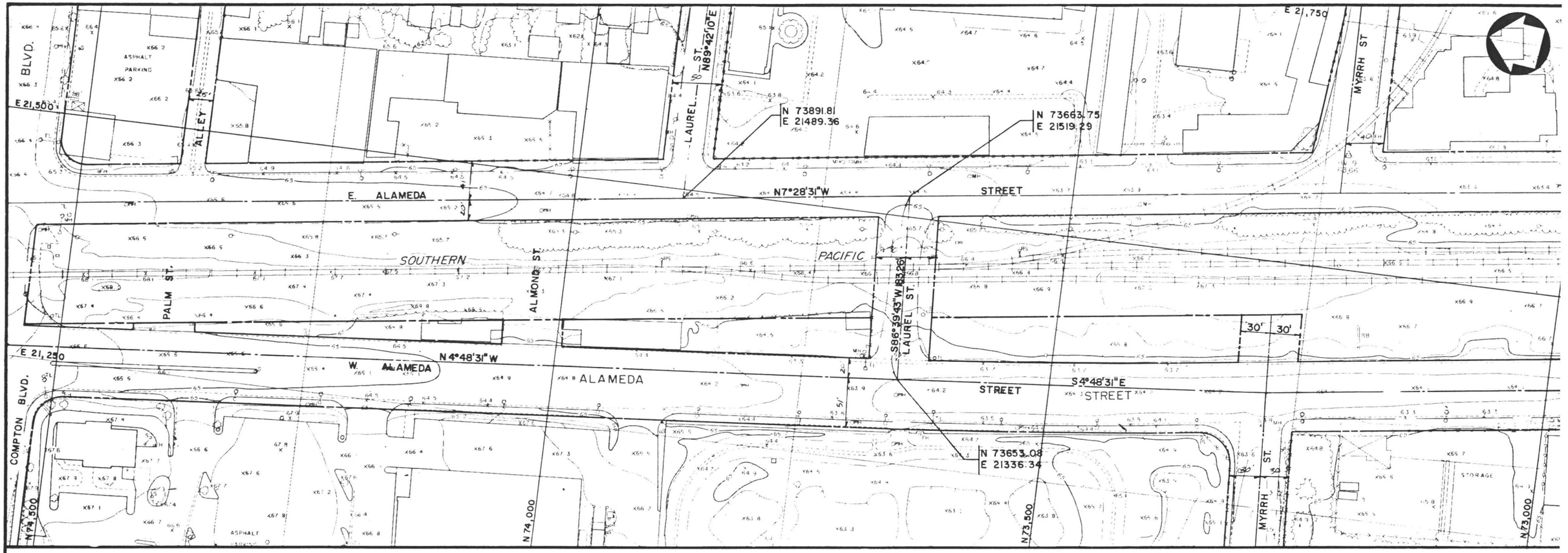
BASE PROPERTY MAP SH 4

CONTRACT NO. R01-T01-C

DRAWING NO. RW-09(

REV.

SHEET NO. 11(



FINAL DESIGN

85% REVIEW

AUG 09 1988

50 0 50 100
1" = 50'-0" GRAPHIC SCALE

Work Element	Physical Entity	Contract Designator	Line Item	Cost Element

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STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
BASE PROPERTY MAP SH. 5

CONTRACT NO. R01-T01-C
DRAWING NO. RW-09(
REV.
SHEET NO. 111

E 21,750

N7°28'53"W

E. ALAMEDA STREET

S7°28'53"E

N89°19'12"E

45'

40'

BLVD.

N 71872.26
E 21760.61

26'

36'

N71871.34
E21683.86

N71871.49
E21696.85

E 21,500

N71886.00
E21611.50

N71885.60
E21550.97

147.08'

147.18'

20'

15.62'

60.52'

VAR.

VAR.

W. ALAMEDA STREET

N7°28'53"W

S7°28'53"E

N73,000

INDIGO ST.

ASPHALT PARK NO

N72,500

N72,000

S89°37'32"W
ALONDRA

ASPHALT PARKING

RAYMOND ST.

FINAL DESIGN

85% REVIEW

AUG 0 9 1988

50 0 50
1" = 50'-0" GRAPHIC SCA

Cost Element	Line Item	Contract Designator	Physical Entity	Work Element

Information confidential: all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for

DESIGNED BY

DRAWN BY

CHECKED BY

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The Long Beach-Los Angeles Rail Transit Project

LACTC

TRANSCAL

TRANSCAL Transit Consultants of Southern California
A Joint [illegible]

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK

BASE PROPERTY MAP SH. 6

CONTRACT NO. R01-T01-C

DRAWING NO. RW-09

REV.

SHEET NO. 11

E 22,000

PETROLIA AVE.

CALDWELL STREET

E. ALAMEDA STREET

E 21,750

SOUTHERN PACIFIC

W. ALAMEDA STREET

RAYMOND ST.

REEVE ST.

TICHENOR ST.

CALDWELL ST.

JOHNSON ST.

N 71,500

N 71,000

N 70,500

N 70,000

ASPHALT PARKING

50 0 50 100

1" = 50'-0" GRAPHIC SCALE

FINAL DESIGN

85% REVIEW

AUG 09 1988

Work Element	Physical Entity	Contract Designator	Line Item	Cost Element

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STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK

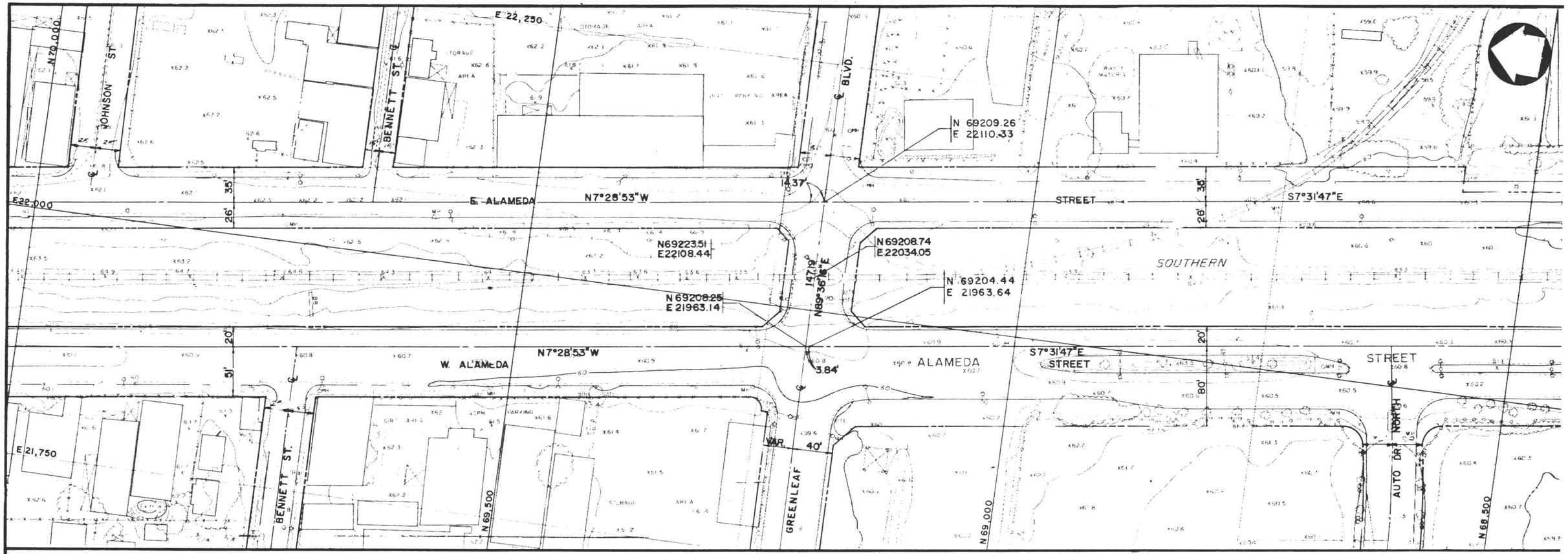
BASE PROPERTY MAP SH. 7

CONTRACT NO. ROI-TOI-C

DRAWING NO. RW-09

REV.

SHEET NO. 11



FINAL DESIGN

85% REVIEW

AUG 09 1988

50 0 50
1" = 50'-0" GRAPHIC SCALE

Cost Element	Line Item	Contract Designator	Physical Entity	Work Element

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TRANSCAL

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A Joint [illegible]

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK

BASE PROPERTY MAP SH. 8

CONTRACT NO. R01-T01-C
DRAWING NO. RW-09
REV. SHEET NO. 11

N68.500

E 22,250

E. ALAMEDA

N7°31'47"W

PACIFIC

N67826.57
E22216.38

AUTO DRIVE SOUTH

N 67836.53
E 22291.77

E 22,500

STREET

N7°31'47"W

N 67817.40
E 22146.98

W. ALAMEDA

E22,000

N68,000

S82°28'24"W

N 67,500

ARTESIA FREEWAY RAMP

N67,000

26'

100'

460'

FINAL DESIGN

85% REVIEW

AUG 09 1988

50 0 50

1" = 50'-0" GRAPHIC SCALE

Work Element	Physical Entity	Contract Designator	Line Item	Cost Element

Information confidential: all plans, drawings, specifications, and/or information furnished herewith shall remain the property of the Los Angeles County Transportation Commission; shall be held confidential; and shall not be used for

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LACTC

TRANSCAL

TRANSCAL Transit Consultants of Southern California

A Joint [illegible] Parsons Brinckerhoff Quade & Douglas, Inc. –

STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK

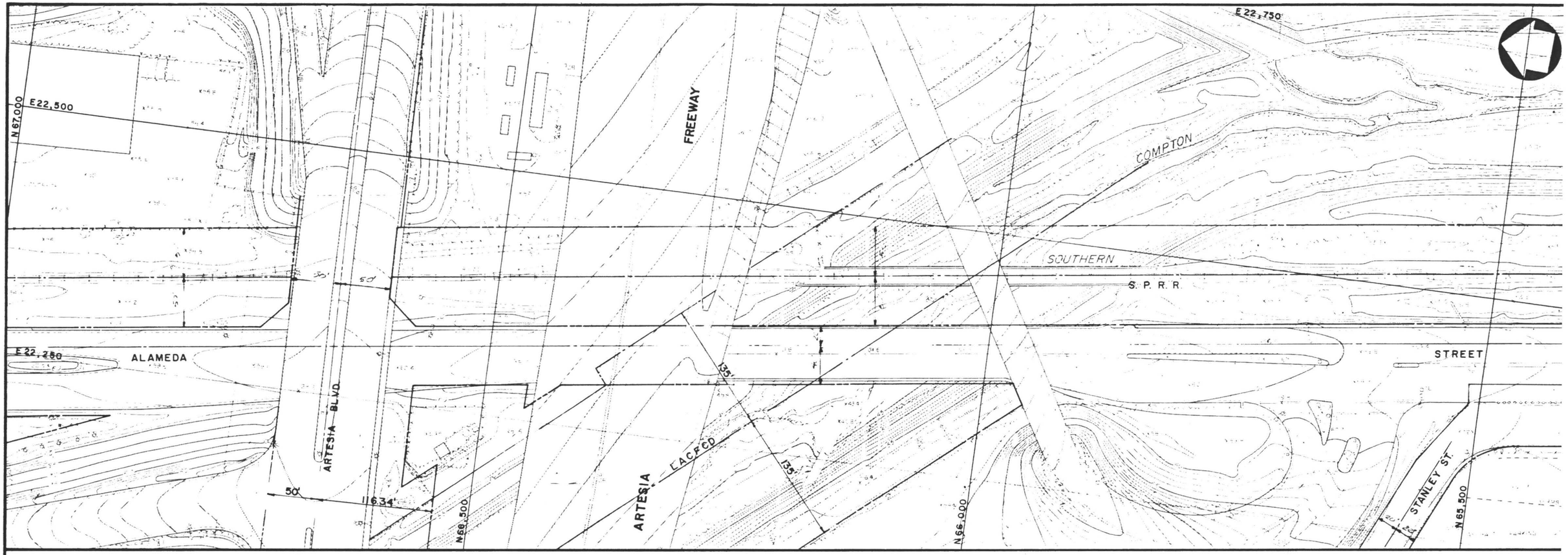
BASE PROPERTY MAP SH. 9

CONTRACT NO. RO1-TO1-C

DRAWING NO. RW-09

REV.

SHEET NO. 11



FINAL DESIGN

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AUG 09 1988

50 0 50

1" = 50' - 0" GRAPHIC SCAL

Cost Element	Line Item	Contract Designator	Physical Entity	Work Element

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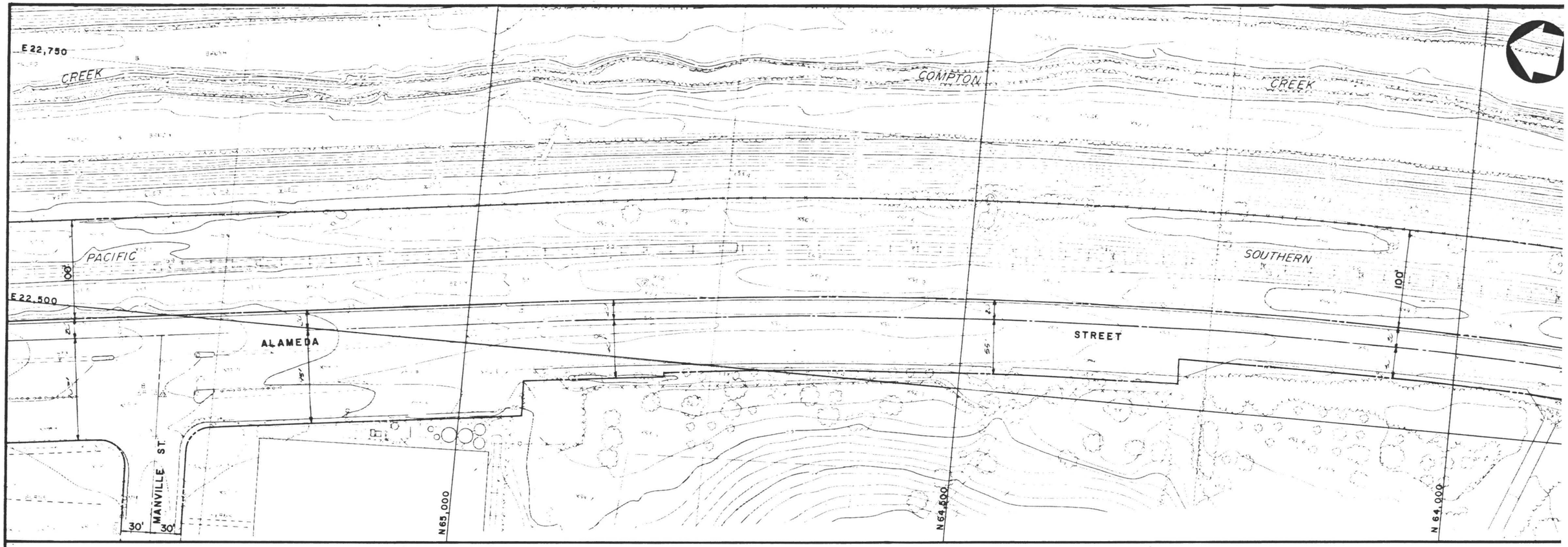
STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK

BASE PROPERTY MAP SH 10

CONTRACT NO.	R01-T01-C
DRAWING NO.	RW-091
REV.	SHEET NO. 11



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50 0 50 100
1" = 50'-0" GRAPHIC SCALE

Work Element	Physical Entity	Contract Designator	Line Item	Cost Element

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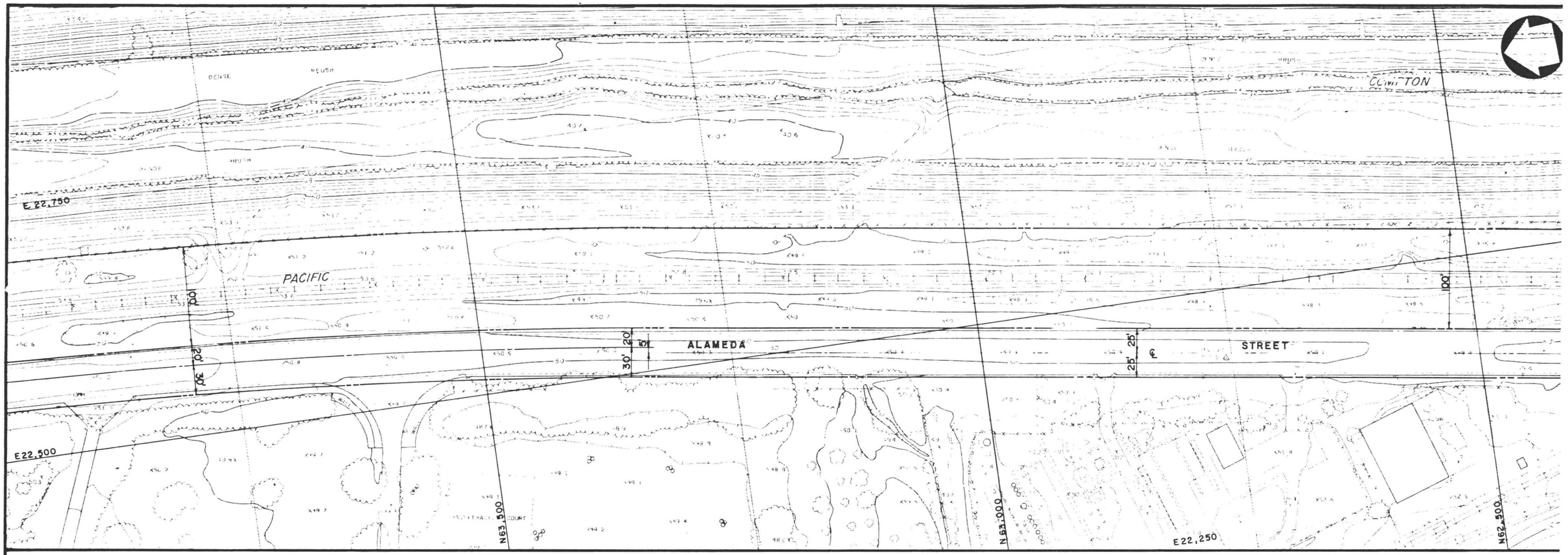
STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK

BASE PROPERTY MAP SH. 11

CONTRACT NO. R01-T01-C
DRAWING NO. RW-091
REV.
SHEET NO. 11



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50 0 50
1" = 50'-0" GRAPHIC SCALE

Cost Element	Line Item	Contract Designator	Physical Entity	Work Element

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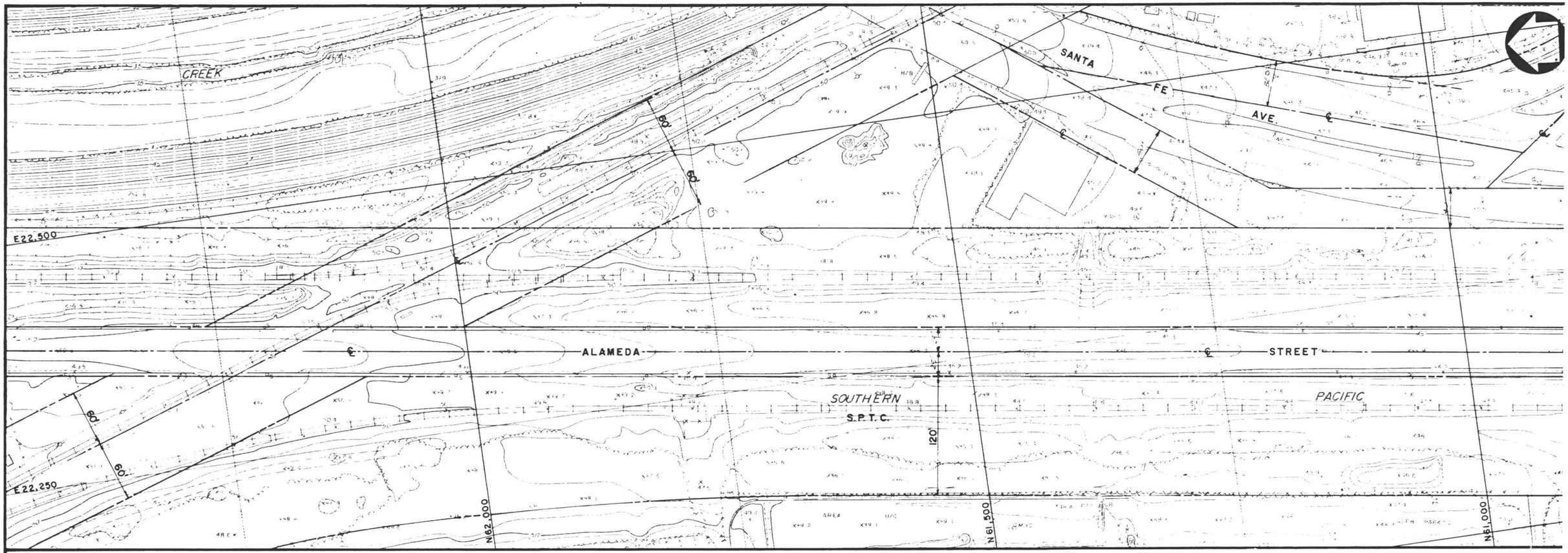
STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK

BASE PROPERTY MAP SH. 12

CONTRACT NO. R01-T01-C
DRAWING NO. RW-09
REV.
SHEET NO. 11



FINAL DESIGN

85% REVIEW

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50 0 50
1" = 50'-0" GRAPHIC SCAL

Cost Element	Line Item	Contract Designator	Physical Entity	Work Element

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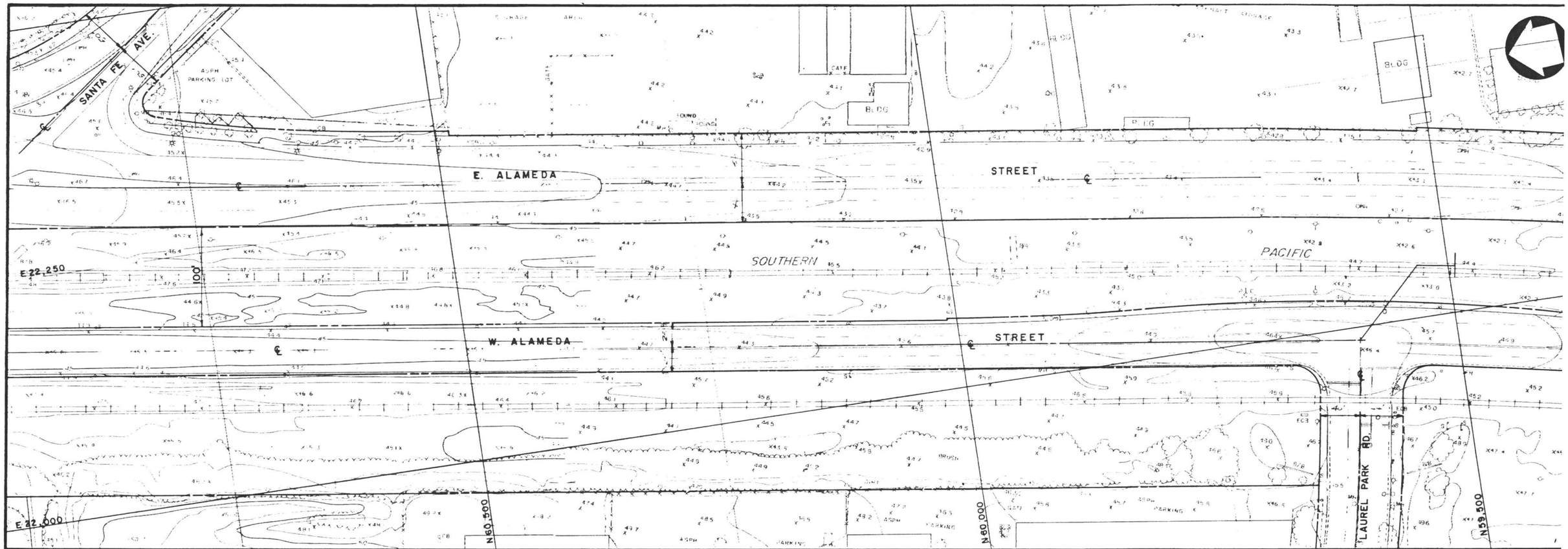
STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK
BASE PROPERTY MAP SH. 13

CONTRACT NO. R01-T01-C
DRAWING NO. RW-09
REV.
SHEET NO. 11



FINAL DESIGN

85% REVIEW

AUG 09 1988

50 0 50

1" = 50' - 0" GRAPHIC SCALE

Cost Element	Line Item	Contract Designator	Physical Entity	Work Element

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STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK

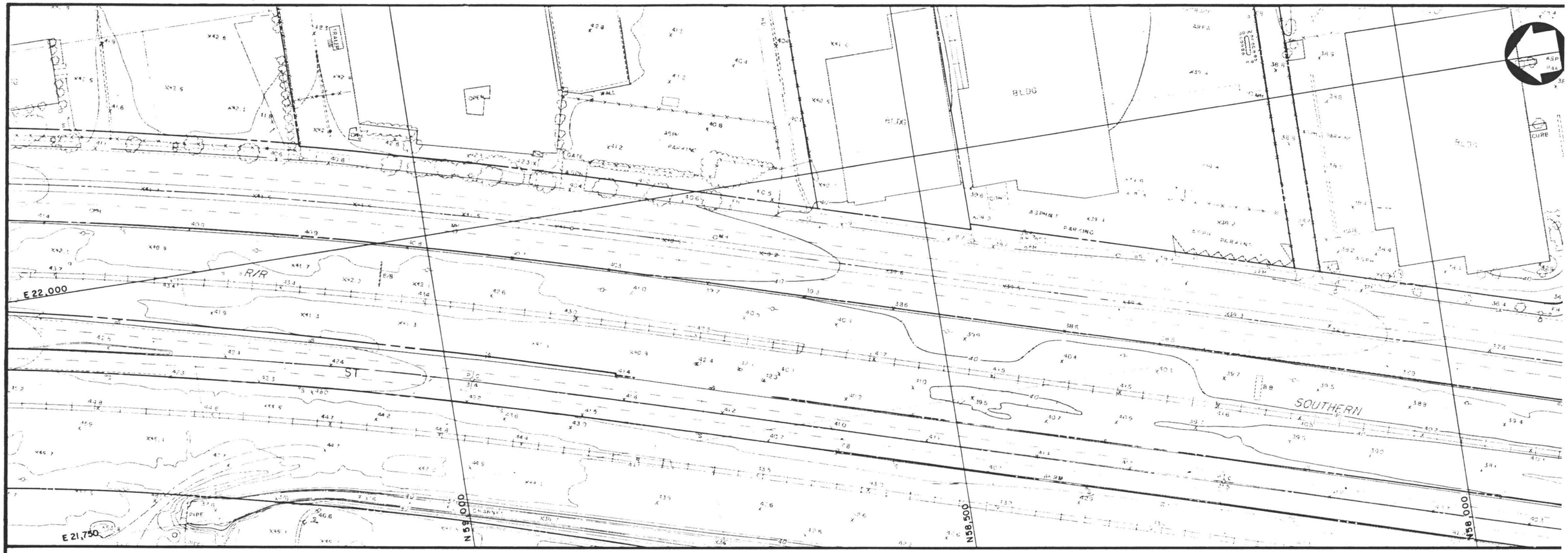
BASE PROPERTY MAP SH. 14

CONTRACT NO. R01-T01

DRAWING NO. RW-09

REV.

SHEET NO. 12



FINAL DESIGN

85% REVIEW

AUG 09 1988

50 0 50
1" = 50' - 0" GRAPHIC SCAL

Work Element	Physical Entity	Contract Designator	Line Item	Cost Element

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STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK

BASE PROPERTY MAP SH. 15

CONTRACT NO. R01-T01-C
DRAWING NO. RW-09
REV.
SHEET NO. 12

E 21,000

TEMPLE & GIBSON TRACT
MR. 2 - 32 - 451 - 46

E 20,750

ASPH

ALAMEDA STREET

MH. 3
Δ 71.40

N 79,000

TANK

E 20,500

N 78,500

MEALY ST.

N 78,000

N 77,500

FINAL DESIGN

85% REVIEW

AUG 09 1988

50 0 50 10
1" = 50'-0" GRAPHIC SCALE

Cost Element	Line Item	Contract Designator	Physical Entity	Work Element

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STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK

BASE PROPERTY MAP SH. 16

CONTRACT NO. RO1-TO1-C
DRAWING NO. RW-09
REV.
SHEET NO. 1
SCALE

N 79,500

OAKS ST.

N 79,000

N 78,500

E. ALAMEDA ST.

N7°31'02"W

FOUNDATION

100'

N 7°30'21"W
W. ALAMEDA ST.

ALAMEDA

E 20,750

E 20,500

N 89°57'47"W
135th ST.

N 83°43'18"W
ORIS ST.

COMPTON CITY BOUNDARY

EUCLID STREET

N 82°28'23"E
PINE AVENUE

OAKS STREET

660.12'

N 7°31'02" W
E. ALAMEDA ST.

N79967.07
E20694.41

60'

145.01'

N 7°30'21" W
W. ALAMEDA ST.

20'

52.24'

51'

N79896.29
E20557.48

133RD STREET

N 89°57'54" W
134TH ST.

FINAL DESIGN

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50 0 50 100
1" = 50'-0" GRAPHIC SCALE

Work Element	Physical Entity	Contract Designator	Line Item	Cost Element

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STOCKWELL TO DEL AMO BLVD
RAILROAD RELOCATION WORK

BASE PROPERTY MAP SH. 17

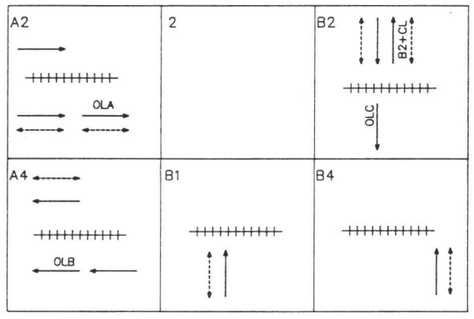
CONTRACT NO. RO1-T01-C

DRAWING NO. RW-09

REV. | SHEET NO. 12

APPLICABLE CALTRANS STANDARD PLANS
DATED JANUARY 1988

ES-1A	ES-3C	ES-5B	ES-6S	ES-8
ES-1B	ES-3D	ES-5C	ES-6T	ES-11
ES-3A	ES-3E	ES-5E	ES-7B	ES-13
ES-3B	ES-5A	ES-6K	ES-7D	ES-14



EXISTING PHASING

NOTES – CITY OF COMPTON

- ALL PULL BOXES SHALL BE NO. 5 UNLESS OTHERWISE NOTED.
- POSITIONING OF POLES, PULL BOXES, CONTROLLER CABINETS AND DETECTORS SHALL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION.
- LOOP DETECTORS SHALL BE CENTERED IN EFFECTIVE LANE WIDTHS UNLESS OTHERWISE NOTED ON THE PLAN OR DIRECTED BY THE ENGINEER.
- THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

NOTES

AB ABANDON; IF APPLIED TO CONDUITS, REMOVE CONDUCTORS.
BC INSTALL PULL BOX IN EXISTING CONDUIT RUN.
CB INSTALL CONDUIT INTO EXISTING PULLBOX.
RD REMOVE AND DELIVER SALVAGED EQUIPMENT.
SC SPLICE NEW TO EXISTING CONDUCTORS.

DLC FOR DETECTOR 3-A2 SHALL BE PULLED BACK TO PULL BOX ON NORTH SIDE OF PALMER BEFORE INSTALLING NEW CONDUIT AND PULL BOXES; AND RETURNED THROUGH NEW CONDUIT RUN.

INSTALL NEW DETECTOR LOOPS FOR:
2-A2, 2-A4, 3-A4, 4-A2, AND 4-A4.

FINAL DESIGN 85% REVIEW

AUG 09 1988

20 0 20 40
1" = 20' GRAPHIC SCALE

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STOCKWELL TO DEL AMO BLVD
TRAFFIC SIGNAL MODIFICATION
ALAMEDA STREET AT

CONTRACT NO. R01-T01-C
DRAWING NO. TR-0901
REV.
SHEET NO. 124

EQUIPMENT SCHEDULE

LOCATION	STANDARD			LUMINAIRE WATTAGE	VEHICLE SIGNAL MOUNTING	PED SIGNAL MOUNTING	PED PUSH BUTTON		STREET NAME SIGN LEGEND	POLE LOCATION					REMARKS
	TYPE	SIGNAL MAST ARM	LUMINAIRE MAST ARM				ø	ARROW		A	B	C	D	E	
(1)	(E)														
(2)	(E)														
(3)	(E)														
(4)	(E)														
(5)	(E)														
(6)	(E)														
(7)	(E)														
(8)	19-2-70	30'	12'	200W HPS	MAS SV-1-T	SP-1-T	B2	LEFT	E. Alameda St.			20'			TWO-SIDED STREET NAME SIGN, MOUNTED ON MAST ARM, NOT ILLUMINATED.
(9)	(E)														
(10)	(E)														
(11)	(E)														
(12)	(E)														
(13)	(E)														

(E) EXISTING

NEW HEAD SCHEDULE

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
R12	R	R	HAND																														
Y12	Y	Y	MAN																														
G12	G	G																															

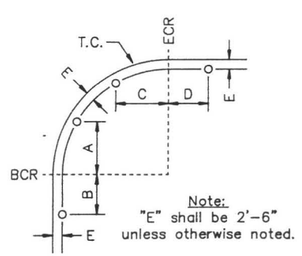
CONDUCTOR SCHEDULE

AWG	CIRCUIT	RUN NUMBER 1	2	3	4	5	6	7	8	9	10	11	12
#14	A4	3	3										
	B2		3										
	B2 + CLEARANCE	3	3										
	A4 PED	2	2										
	B2 PED	2	2										
	A4 PPB	1	1										
	B2 PPB	1	1										
	PPB COMMON	1	1										
	ILLUM. ST. SIGN(FUTURE)	1	1										
	SPARES	3	3										
	TOTAL	17	20										
#10	SIGNAL & SIGN COMMON	1	1										
	LUMINAIRE	2	2										
	TOTAL	3	3										
DLC	A2 EAST		2										
	B2	1	1										
	TOTAL	1	3										
	CONDUIT SIZE (INCHES)	2"	2"										

FINAL DESIGN

85% REVIEW

AUG 0 9 1988



Note:
"E" shall be 2'-6" unless otherwise noted.

POLE LOCATION DETAIL
(No Scale)

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STOCKWELL TO DEL AMO BLVD.
TRAFFIC SIGNAL MODIFICATION
ALAMEDA STREET AT

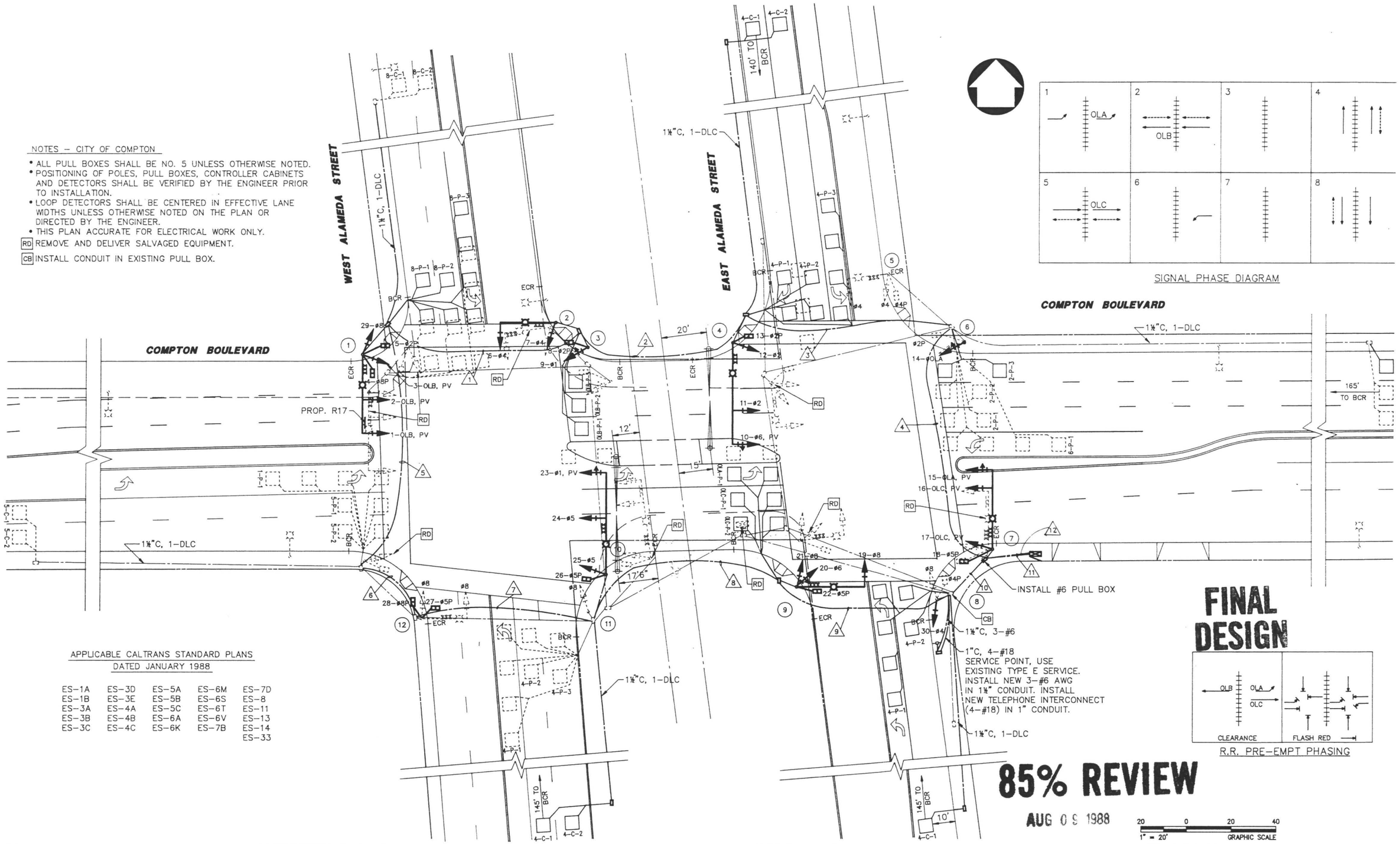
CONTRACT NO. R01-T01-
DRAWING NO. TR-0902
REV.
SHEET NO. 12

NOTES – CITY OF COMPTON

- ALL PULL BOXES SHALL BE NO. 5 UNLESS OTHERWISE NOTED.
- POSITIONING OF POLES, PULL BOXES, CONTROLLER CABINETS AND DETECTORS SHALL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION.
- LOOP DETECTORS SHALL BE CENTERED IN EFFECTIVE LANE WIDTHS UNLESS OTHERWISE NOTED ON THE PLAN OR DIRECTED BY THE ENGINEER.
- THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

RD REMOVE AND DELIVER SALVAGED EQUIPMENT.

CB INSTALL CONDUIT IN EXISTING PULL BOX.



SIGNAL PHASE DIAGRAM

APPLICABLE CALTRANS STANDARD PLANS
DATED JANUARY 1988

ES-1A	ES-3D	ES-5A	ES-6M	ES-7D
ES-1B	ES-3E	ES-5B	ES-6S	ES-8
ES-3A	ES-4A	ES-5C	ES-6T	ES-11
ES-3B	ES-4B	ES-6A	ES-6V	ES-13
ES-3C	ES-4C	ES-6K	ES-7B	ES-14
				ES-33

R.R. PRE-EMPT PHASING

FINAL DESIGN

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1" = 20' GRAPHIC SCALE

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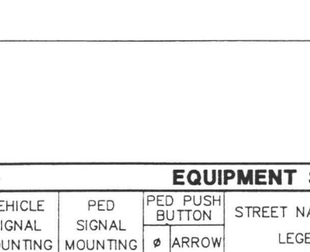
STOCKWELL TO DEL AMO BLVD.
TRAFFIC SIGNAL MODIFICATION
ALAMEDA STREET AT

CONTRACT NO. R01-T01-
DRAWING NO. TR-090
REV.
SHEET NO. 12

EQUIPMENT SCHEDULE

LOCATION	STANDARD TYPE	STANDARD SIGNAL MAST ARM	STANDARD LUMINAIRE MAST ARM	LUMINAIRE WATTAGE	VEHICLE SIGNAL MOUNTING	PED SIGNAL MOUNTING	PED PUSH BUTTON ø	PED PUSH BUTTON ARROW	STREET NAME SIGN LEGEND	POLE LOCATION A	B	C	D	E	REMARKS
(1)	24-4-70	35'	12'	200W HPS	(2) MAS SV-2-TA	SP-2-T	2/8	LEFT/LEFT	Alameda West (R)			6'			RELOCATE EXISTING STREET NAME SIGN
(2)	19-2-70	25'	12'	200W HPS	MAS SV-1-T		2	LEFT	Compton Blvd. (R)			16'			RELOCATE EXISTING STREET NAME SIGN
(3)	1A				TV-1-T	SP-1-T				12'					RELOCATE EXISTING STREET NAME SIGN
(4)	26-4-70	45'	12'	200W HPS	(2) MAS SV-1-T	SP-1-T	2	LEFT	Alameda East (R)			18'			RELOCATE EXISTING STREET NAME SIGN
(5)	(E)						2	LEFT	Compton Blvd. (E)						
(6)	(E)				TV-1-T	(E)	4	RIGHT		4'					
(7)	24-4-70	35'	12'	200W HPS	(2) MAS SV-2-TA	SP-1-T	4	LEFT	Alameda East (R)			3'			RELOCATE EXISTING STREET NAME SIGN
(8)	(E)						5	RIGHT							
(9)	19-2-70	30'	12'	200W HPS	MAS SV-2-TA	SP-1-T	5	LEFT	Compton Blvd. (R)			15'			RELOCATE EXISTING STREET NAME SIGN
(10)	26-4-70	45'	12'	200W HPS	(2) MAS SV-1-T	SP-1-T			Alameda West (R)			27'			RELOCATE EXISTING STREET NAME SIGN
(11)	(E)						5	RIGHT							
(12)	(E)						5	LEFT							

(E) EXISTING (R) RELOCATE



Note:
"E" shall be 2'-6" unless otherwise noted.

POLE LOCATION DETAIL
(No Scale)

FINAL DESIGN

85% REVIEW

AUG 09 1988

NEW HEAD SCHEDULE

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
R12	R12	R	HAND	HAND	R12	R	HAND	RLA	RLA	R12	R	HAND	RLA	RLA	R12	R	HAND	R12	RLA	R	HAND	RLA	R12	R	HAND	HAND	HAND	R12	R12
Y12	Y12	Y	MAN	MAN	Y12	Y	MAN	YLA	YLA	Y12	Y	MAN	YLA	YLA	Y12	Y	MAN	Y12	YLA	Y	MAN	YLA	Y12	Y	MAN	MAN	MAN	Y12	Y12
G12	G12	G			G12	G		GLA	GLA	G12	G		GLA	GLA	G12	G		G12	GLA	G		GLA	G12	G				G12	G12
(PV)	(PV)	(PV)							(PV)					(PV)	(PV)	(PV)						(PV)							

(PV) – PROGRAMMED VISIBILITY SIGNAL HEADS

CONDUCTOR SCHEDULE

AWG	CIRCUIT	RUN NUMBER 1	2	3	4	5	6	7	8	9	10	11	12
#14	ø1		3	3	3				3	3	3	3	3
	ø2			3	3								3
	ø4		3	3	3								3
	ø5								3	3	3	3	
	ø6			3	3					3	3	3	3
	ø8	3	3	3	3			3	3	3	3	3	3
	OLA				3							3	3
	OLB	3	3	3	3								3
	OLC											3	
	ø2P	2	2	2	2								2
	ø4P				2								2
	ø5P							2	2	2	2	2	
	ø8P	2	2	2	2			2	2	2	2	2	2
	ø2PPB	1	1	1	1								1
	ø4PPB				1								1
	ø5PPB							1	1	1	1	1	
	ø8PPB	1	1	1	1			1	1	1	1	1	1
	PPB COMMON	1	1	1	1			1	1	1	1	1	1
	SPARE	3	3	3	3			3	3	3	3	3	3
	TOTAL	16	22	28	34			13	19	22	22	28	35
#12	SIGN LIGHTING	1	1	1	1			1	1	1	1	1	1
	TOTAL	1	1	1	1			1	1	1	1	1	1
#10	120V COMMON	1	1	1	1			1	1	1	1	1	1
	TOTAL	1	1	1	1			1	1	1	1	1	1
#8	LUMINAIRE	2	2	2	2			2	2	2	2	2	2
	TOTAL	2	2	2	2			2	2	2	2	2	2
#6	SEVICE										3	3	
	TOTAL										3	3	
DLC	ø1 DET						2	2	2	2	2	2	
	ø2 DET				4								4
	ø4 DET								4	4	8	8	
	ø5 DET						3	3	3	3	3	3	
	ø6 DET				2								2
	ø8 DET	5	5	10	10								10
	OLA DET									1	1	1	
	OLB DET		1	1	1								1
	OLC DET									2	2	2	
	TOTAL	5	6	11	17		5	5	9	12	16	16	17
4#18 TELEPHONE INTERCONNECT											1	1	
	CONDUIT (IN)	3"	3"	3½"	4"	3"	2"	3"	3"	3½"	4"	4"	4"

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STOCKWELL TO DEL AMO BLVD.
TRAFFIC SIGNAL MODIFICATION
ALAMEDA STREET AT

CONTRACT NO. R01-T01-(
DRAWING NO. TR-0904
REV. SHEET NO. 12

APPLICABLE CALTRANS STANDARD PLANS
DATED JANUARY 1988

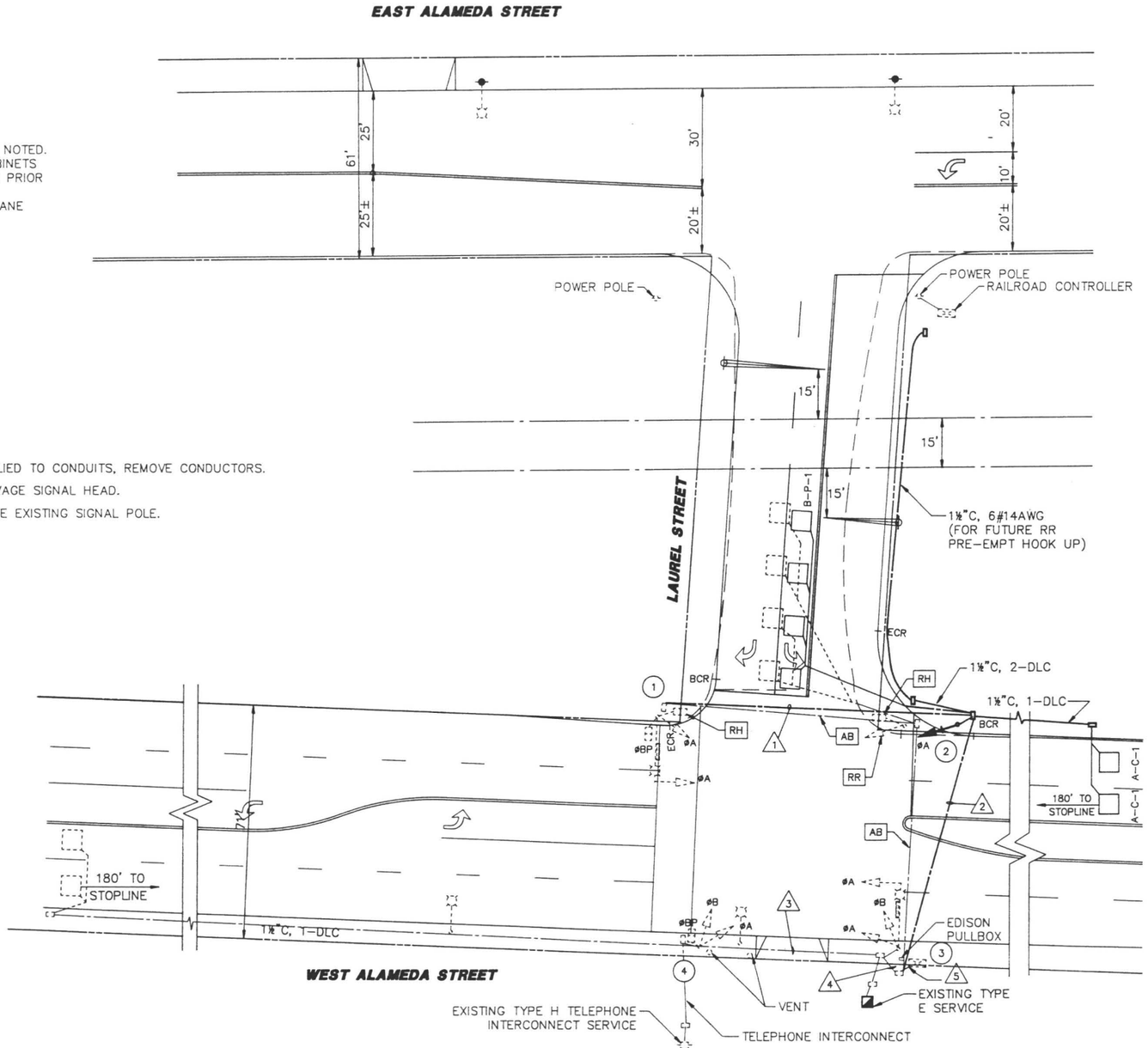
ES-1A	ES-3C	ES-5A	ES-6A	ES-7D
ES-1B	ES-3D	ES-5B	ES-6S	ES-8
ES-3A	ES-3E	ES-5E	ES-7B	ES-13
ES-3B				ES-14

NOTES – CITY OF COMPTON

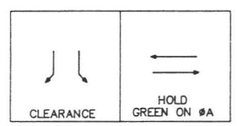
- ALL PULL BOXES SHALL BE NO. 5 UNLESS OTHERWISE NOTED.
- POSITIONING OF POLES, PULL BOXES, CONTROLLER CABINETS AND DETECTORS SHALL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION.
- LOOP DETECTORS SHALL BE CENTERED IN EFFECTIVE LANE WIDTHS UNLESS OTHERWISE NOTED ON THE PLAN OR DIRECTED BY THE ENGINEER.
- THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

NOTES

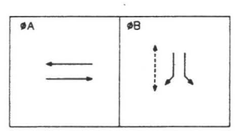
AB ABANDON; IF APPLIED TO CONDUITS, REMOVE CONDUCTORS.
RH REMOVE AND SALVAGE SIGNAL HEAD.
RR RELOCATE AND USE EXISTING SIGNAL POLE.



NOTE: CONTRACTOR SHALL PULL NEW WIRE FROM CONDUIT 2 TO CONTROLLER AND MAKE CONNECTIONS.



R.R. PRE-EMPT PHASING



SIGNAL PHASE DIAGRAM

20 0 20 40
1" = 20' GRAPHIC SCALE

FINAL DESIGN

85% REVIEW

AUG 09 1988

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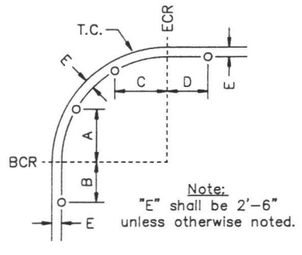
STOCKWELL TO DEL AMO BLVD.
TRAFFIC SIGNAL MODIFICATION
ALAMEDA STREET AT

CONTRACT NO. RQ1-T01-
DRAWING NO. TR-0905
REV.
SHEET NO. 12

EQUIPMENT SCHEDULE

LOCATION	STANDARD TYPE	STANDARD SIGNAL MAST ARM	STANDARD LUMINAIRE MAST ARM	LUMINAIRE WATTAGE	VEHICLE SIGNAL MOUNTING	PED SIGNAL MOUNTING	PED PUSH BUTTON ø	PED PUSH BUTTON ARROW	STREET NAME SIGN LEGEND	POLE LOCATION A	B	C	D	E	REMARKS
(1)	(E)						A/B			4'					REMOVE PHASE A PEDESTRIAN HEAD, AND PHASE A PPB , AND PPB SIGN.
(2)	1-A(E)	———	———	———	TV-1	SP-1-T	A								REMOVE AND RELOCATE AS SHOWN, REMOVE PEDESTRIAN SIGNAL HEAD, PPB AND PPB SIGN
(3)	(E)														
(4)	(E)														
(5)															
(6)															
(7)															
(8)													—	—	
(9)															
(10)															
(11)															
(12)															

(E) EXISTING



Note:
"E" shall be 2'-6" unless otherwise noted.

POLE LOCATION DETAIL
(No Scale)

CONDUCTOR SCHEDULE

AWG	CIRCUIT	RUN NUMBER 1	2	3	4	5
#14	øA	3	3	3	3	6
	øB			3	3	3
	øBP	2	2	2	2	4
	øBPPB	1	1	1	1	2
	PPB COMMON	1	1	1	1	1
	SPARE	3	3	3	3	6
	RR PRE-EMPT				6	6
	TOTAL	10	10	13	19	28
#10	SIGNAL COMMON	1	1	1	1	1
	TOTAL	1	1	1	1	1
#8	LUMINAIRE	2	2		2	4
	SERVICE				3	3
	TOTAL	2	2		5	7
DLC	øA DLC		1	1	1	2
	øB DLC		2			2
	TOTAL		3	1	1	4
4#18 TEL.	SHIELDED INTERCONNECT			1	1	1
	CONDUIT (IN)	2"	2½"	2"		2½"

FINAL DESIGN

85% REVIEW

AUG 09 1988

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STOCKWELL TO DEL AMO BLVD.
TRAFFIC SIGNAL MODIFICATION
ALAMEDA STREET AT

CONTRACT NO. R01-T01-
DRAWING NO. TR-0906
REV.
SHEET NO. 12

APPLICABLE CALTRANS STANDARD PLANS
DATED JANUARY 1988

ES-1A	ES-3C	ES-4C	ES-6J	ES-7B
ES-1B	ES-3D	ES-5A	ES-6K	ES-7D
ES-2A	ES-3E	ES-5B	ES-6M	ES-8
ES-3A	ES-4A	ES-5C	ES-6S	ES-11
ES-3B	ES-4B	ES-5E	ES-6T	ES-13
				ES-14
				ES-33

NOTES – CITY OF COMPTON

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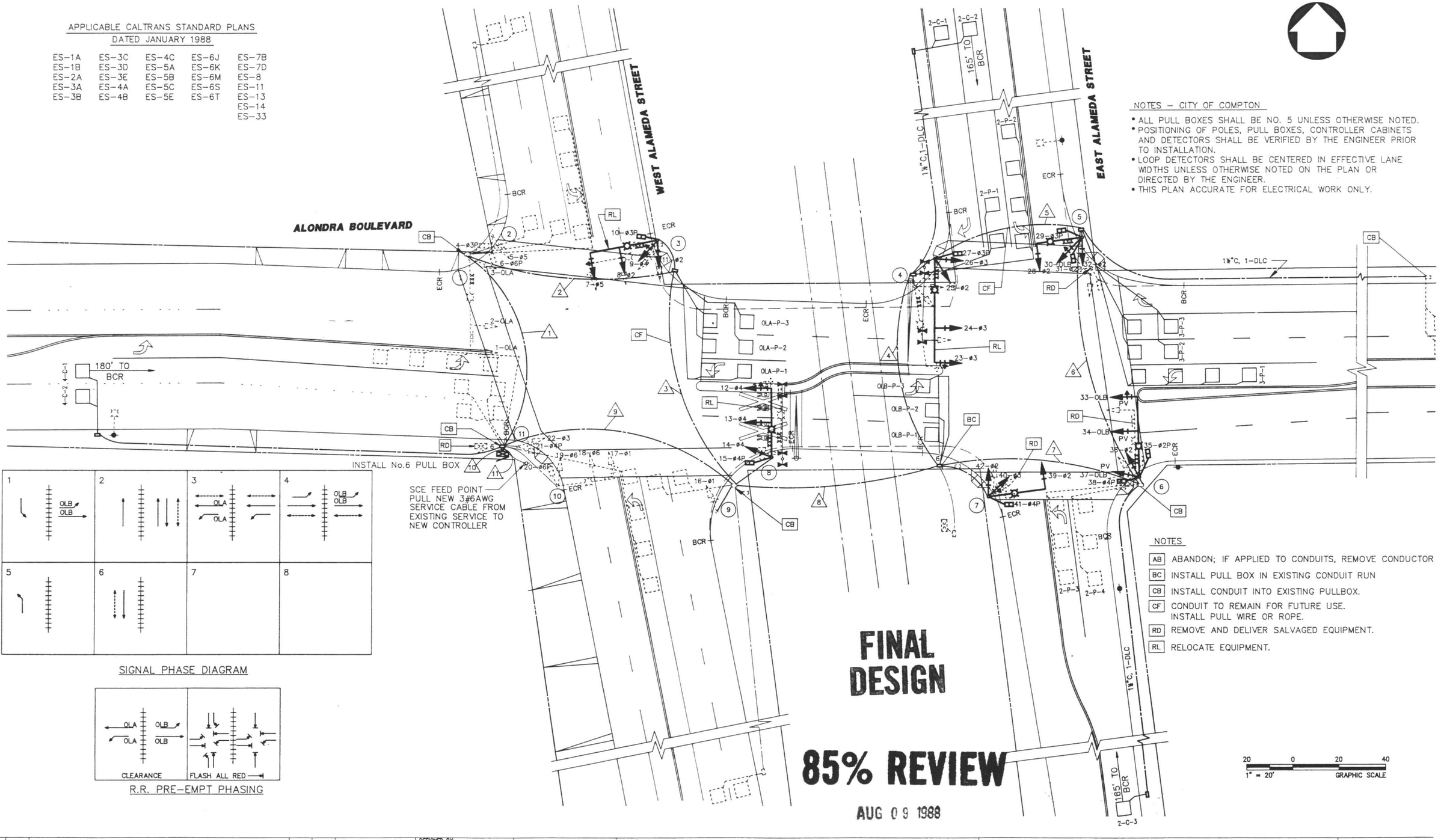

SIGNAL PHASE DIAGRAM

R.R. PRE-EMPT PHASING

NOTES

AB	ABANDON; IF APPLIED TO CONDUITS, REMOVE CONDUCTOR
BC	INSTALL PULL BOX IN EXISTING CONDUIT RUN
CB	INSTALL CONDUIT INTO EXISTING PULLBOX.
CF	CONDUIT TO REMAIN FOR FUTURE USE. INSTALL PULL WIRE OR ROPE.
RD	REMOVE AND DELIVER SALVAGED EQUIPMENT.
RL	RELOCATE EQUIPMENT.

FINAL DESIGN

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20 0 20 40
1" = 20' GRAPHIC SCALE

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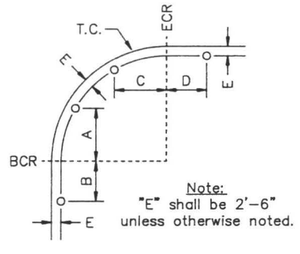
STOCKWELL TO DEL AMO BLVD.
TRAFFIC SIGNAL MODIFICATION
ALAMEDA STREET AT

CONTRACT NO. R01-T01-
DRAWING NO. TR-090
REV.
SHEET NO. 13

EQUIPMENT SCHEDULE

LOCATION	STANDARD TYPE	STANDARD SIGNAL MAST ARM	STANDARD LUMINAIRE MAST ARM	LUMINAIRE WATTAGE	VEHICLE SIGNAL MOUNTING	PED SIGNAL MOUNTING	PED PUSH BUTTON ø	PED PUSH BUTTON ARROW	STREET NAME SIGN LEGEND	POLE LOCATION A	B	C	D	E	REMARKS
1	(E)														
2	(E)														
3	XIX, (R)	30'	12'									3'6"			RELOCATE EXISTING SIGNAL POLE AS SHOWN.
4	XXVI, (R)	45'	12'									20'			RELOCATE EXISTING SIGNAL POLE AS SHOWN.
5	17B-2-70	20'	12'	200W HPS	MAS SV-2-TA	SP-2-T	3/2	RIGHT/LEFT	Alondra Bl			28'			
6	24-4-70	35'	12'	200W HPS	2-MAS SV-2-TA	SP-2-T	2/4	LEFT/LEFT				15'6"			
7	19-1-70	25'	12'	200W HPS	MAS SV-2-TA	SP-1-T	4	LEFT	Alameda St. East			10'			
8	XIX, (R)	30'	15'									9'			RELOCATE EXISTING SIGNAL POLE AS SHOWN.
9	(E)														
10	(E)														
11	(E)														
12															

(E) EXISTING
(R) RELOCATE



Note:
"E" shall be 2'-6" unless otherwise noted.

POLE LOCATION DETAIL
(No Scale)

CONDUCTOR SCHEDULE

AWG	CIRCUIT	RUN NUMBER 1	2	3	4	5	6	7	8	9	10	11	12
#14	ø1									3	3		
	ø2	3	3		3		3	3	3	3	3	3	
	ø3				3				3	3		3	
	ø4	3	3							3	3	3	
	ø5	3	3								3		
	ø6										3		
	OLA	3									3		
	OLB						3	3	3	3		3	
	ø2P						2	2	2	2		2	
	ø3P	2	2		2		2	2	2	2	2	2	
	ø4P							2	2	2		2	
	ø6P	2									2		
	ø2PPB						1	1	1	1		1	
	ø3PPB	1	1		1		1	1	1	1	1	1	
	ø4PPB							1	1	1		1	
	ø6PPB	1									1		
	PPB COMMON	1	1		1		1	1	1	1	1	1	
	RR PRE-EMPT								6	6	6		
	SPARE	3	3		3		3	6	6	6	3	6	
	TOTAL	22	16		13		16	22	31	37	34	28	
#12	SIGN LIGHTING	1	1		1		1	1	1	1	1	1	
	TOTAL	1	1		1		1	1	1	1	1	1	
#10	SIGNAL COMMON	1	1		1		1	1	1	1	1	1	
	TOTAL	1	1		1		1	1	1	1	1	1	
#8	LUMINAIRE	2	2		2		2	2	2	2	2	2	
	TOTAL	2	2		2		2	2	2	2	2	2	
#6	SERVICE										3		
	TOTAL										3		
DLC	ø1 DET.	2									2		
	ø2 DET.				4			3	7	10		10	
	ø3 DET.						5	5	5	5		5	
	ø4 DET.										5		
	ø5 DET.										2		
	ø6 DET.	3									3		
	OLA DET.	3	3								3		
	OLB DET.								2	2		2	
	TOTAL	8	3		4		5	8	14	17	15	17	
	CONDUIT (IN)	3"	2"	3"	2½"	3"	2½"	3"	4"	4"	3"	3"	

NEW HEAD SCHEDULE

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
RLA	R	R	HAND	HAND	RLA	RLA	R12	RLA	HAND	R	RLA	R12	R	HAND	RLA	RLA	R12	R	HAND	HAND	RLA	RLA	R12	R	R	HAND	R12	HAND	RLA	HAND	R	RLA	R12	HAND	R	R	HAND	R12	RLA	HAND	R
YLA	Y	Y	MAN	MAN	YLA	YLA	Y12	YLA	MAN	Y	YLA	Y12	Y	MAN	YLA	YLA	Y12	Y	MAN	MAN	YLA	YLA	Y12	Y	Y	MAN	Y12	MAN	YLA	MAN	Y	YLA	Y12	MAN	Y	Y	MAN	Y12	YLA	MAN	Y
GLA	G	G			GLA	GLA	G12	GLA		G	GA	G12	G		GLA	GLA	G12	G			GLA	GLA	G12	G	G		G12		GLA		G	GLA	G12		G	G		G12	GLA		G
(PV)	(PV)	(PV)																														(PV)	(PV)			(PV)					
(E)	(E)	(E)	(E)	(E)	(E)										(E)	(E)	(E)	(E)	(E)	(E)	(E)																					

(E) EXISTING
(PV) PROGRAMMED VISIBILITY SIGNAL HEADS

FINAL DESIGN

85% REVIEW AUG 0 9 1988

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STOCKWELL TO DEL AMO BLVD.
TRAFFIC SIGNAL MODIFICATION
ALAMEDA STREET AT

CONTRACT NO. R01-T01-
DRAWING NO. TR-0908
REV.
SHEET NO. 131

NOTES – CITY OF COMPTON

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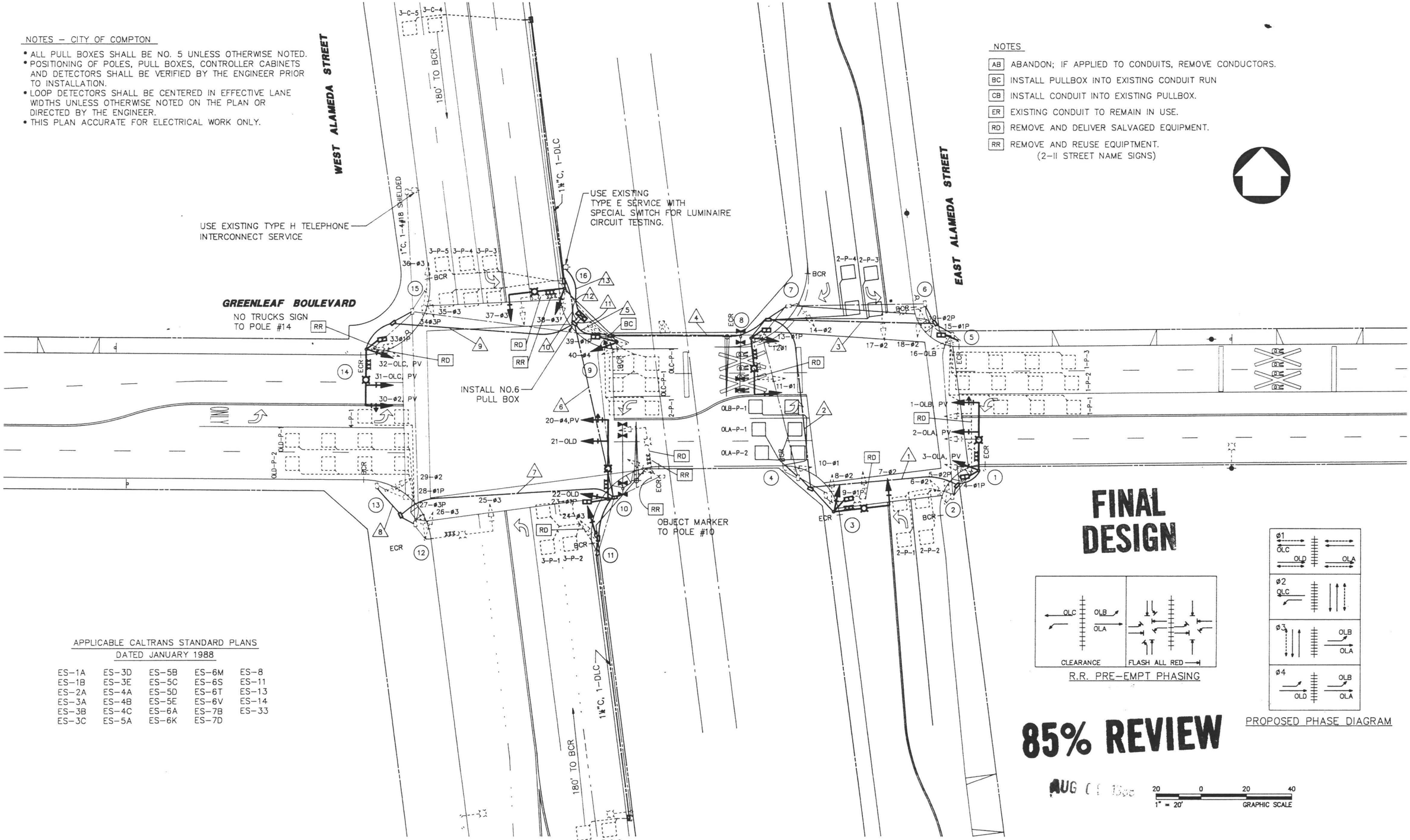
- THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

NOTES

AB ABANDON; IF APPLIED TO CONDUITS, REMOVE CONDUCTORS.
BC INSTALL PULLBOX INTO EXISTING CONDUIT RUN
CB INSTALL CONDUIT INTO EXISTING PULLBOX.
ER EXISTING CONDUIT TO REMAIN IN USE.
RD REMOVE AND DELIVER SALVAGED EQUIPMENT.
RR REMOVE AND REUSE EQUIPTMENT. (2–II STREET NAME SIGNS)



APPLICABLE CALTRANS STANDARD PLANS
DATED JANUARY 1988

ES-1A	ES-3D	ES-5B	ES-6M	ES-8
ES-1B	ES-3E	ES-5C	ES-6S	ES-11
ES-2A	ES-4A	ES-5D	ES-6T	ES-13
ES-3A	ES-4B	ES-5E	ES-6V	ES-14
ES-3B	ES-4C	ES-6A	ES-7B	ES-33
ES-3C	ES-5A	ES-6K	ES-7D	

FINAL DESIGN

R.R. PRE–EMPT PHASING

PROPOSED PHASE DIAGRAM

85% REVIEW

AUG 0 [illegible]

20 0 20 40
1" = 20' GRAPHIC SCALE

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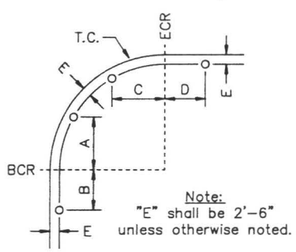
STOCKWELL TO DEL AMO BLVD.
TRAFFIC SIGNAL MODIFICATION
ALAMEDA STREET AT

CONTRACT NO. R01–T01–C
DRAWING NO. TR–0909
REV.
SHEET NO. 132

EQUIPMENT SCHEDULE

LOCATION	STANDARD			LUMINAIRE WATTAGE	VEHICLE SIGNAL MOUNTING	PED SIGNAL MOUNTING	PED PUSH BUTTON		STREET NAME SIGN LEGEND	POLE LOCATION					REMARKS
	TYPE	SIGNAL MAST ARM	LUMINAIRE MAST ARM				ø	ARROW		A	B	C	D	E	
(1)	19-4-70	30'	12'	200W HPS	(2)MAS SV-1-T	SP-1-T	2	LEFT	E. ALAMEDA ST.			3'			
(2)	(E)						1	RIGHT							ADD PEDESTRIAN PUSH BUTTON TO NEW POLE
(3)	19-2-70	25'	12'	200W HPS	MAS SV-1-T	SP-1-T	1	LEFT	GREENLEAF BL.			2'			
(4)	(E)														
(5)	(E)				(E)	SP-1-T									
(6)	(E)						1	LEFT							ADD PEDESTRIAN PUSH BUTTON TO NEW POLE
(7)	(E)						1	RIGHT							ADD PEDESTRIAN PUSH BUTTON TO NEW POLE
(8)	19-2-70	25'	12'	200W HPS	MAS SV-1-T	SP-1-T			E. ALAMEDA ST.			10'			
(9)	1-A				TV-1-T	SP-1-T					0'				
(10)	24-4-70	35'	12'	200W HPS	(2)MAS SV-1-T	SP-1-T	1	RIGHT	W. ALAMEDA ST. (R)			23'			RELOCATE EXISTING STREET SIGN TO NEW MAST ARM
(11)	1-A				TV-1-T					3'					
(12)	(E)														
(13)	(E)														
(14)	19-4-70	25'	12'	200W HPS	(2)MAS SV-1-T	SP-1-T	3	LEFT	W. ALAMEDA ST.			2'			
(15)	(E)														
(16)	19-2-70	25'	12'	200W HPS	MAS SV-1-T		1	LEFT	GREENLEAF BL. (R)				5'		RELOCATE EXISTING STREET SIGN TO NEW MAST ARM

(E)-EXISTING (R)-RELOCATE



Note:
"E" shall be 2'-6" unless otherwise noted.

POLE LOCATION DETAIL
(No Scale)

CONDUCTOR SCHEDULE

AWG	CIRCUIT	RUN NUMBER												
		1	2	3	4	5	6	7	8	9	10	11	12	13
#14	OLA	3	3		3	3						3		
	OLB	3	3	3	3	3						3		
	OLC									3		3		
	OLD						3					3		
	ø1		3		3	3						3		
	ø2	3	3	3	3	3	3	3	3	3		6		
	ø3						3	3		3	3	6		
	ø4					3	3					6		
	ø1P	2	2	2	2	2	2	2	2	2		4		
	ø2P	2	2	2	2	2						2		
	ø3P						2	2		2		4		
	ø1PPB	1	1	1	1	1	1	1	1	1	1	2		
	ø2PPB	1	1	1	1	1						1		
	ø3PPB						1	1	1	1		1		
	PPB COMMON	1	1	1	1	1	1	1	1	1	1	2		
	R.R. PRE-EMPT					6						6		
	SPARE	3	3	3	6	6	3	3	3	3	3	12		
	TOTAL	19	22	16	25	34	22	16	11	19	8	67		
#12	SIGN LIGHTING	1	1	1	1	1	1	1		1	1	2	2	
	TOTAL	1	1	1	1	1	1	1		1	1	2	2	
#10	SIGNAL COMMON	1	1	1	1	1	1	1	1	1	1	1	1	
	TOTAL	1	1	1	1	1	1	1	1	1	1	1	1	
#8	LUMINAIRES	2	2	2	2	2	2	2		2	2		4	
	SIGNAL SERVICE													3
	TOTAL	2	2	2	2	2	2	2		2	2		4	3
DLC	OLA DETECTORS		2		2	2						2		
	OLB DETECTORS		1		1	1						1		
	OLC DETECTORS					2						2		
	OLD DETECTORS						4	4				4		
	ø1 DETECTORS			3	3	3							3	
	ø2 DETECTORS	2	2		4	5							5	
	ø3 DETECTORS						3				4		7	
	ø4 DETECTORS						1	1					1	
	TOTAL	2	5	3	10	13	8	5			4	9	16	
4#18 SHIELDED TEL. INTERCONNECT										1				
	CONDUIT SIZE (INCHES)	2"	2½"	2"	3½"	3½"	3"	2½"	2"	2"	2"	3½"	3½"	2"

FINAL DESIGN

85% REVIEW
AUG 09 1988

NEW HEAD SCHEDULE

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
RLA	R12	R	HAND	HAND	R12	R12	R	HAND	R	R12	R	HAND	R12	HAND	RLA	R12	R12	HAND	RLA	R12	R	HAND	R	R	R	HAND	HAND	RLA	RLA	R12	R	HAND	HAND	R	R	R12	R	HAND	RLA
YLA	Y12	Y	MAN	MAN	Y12	Y12	Y	MAN	Y	Y12	Y	MAN	Y12	MAN	YLA	Y12	Y12	MAN	YLA	Y12	Y	MAN	Y	Y	Y	MAN	MAN	YLA	YLA	Y12	Y	MAN	MAN	Y	Y	Y12	Y	MAN	YLA
GLA	G12	G			G12	G12	G		G	G12	G		G12		GLA	G12	G12		GLA	G12	G		G	G	G			GLA	GLA	G12	G			G	G	G12	G		GLA
(PV)	(PV)	(PV)		(E)	(E)				(E)				(E)		(E)	(E)	(E)	(E)	(PV)					(E)	(E)	(E)	(E)	(E)	(PV)	(PV)	(PV)		(E)	(E)	(E)				

(E)-EXISTING
(PV)-PROGRAMMED VISIBILITY SIGNAL HEADS

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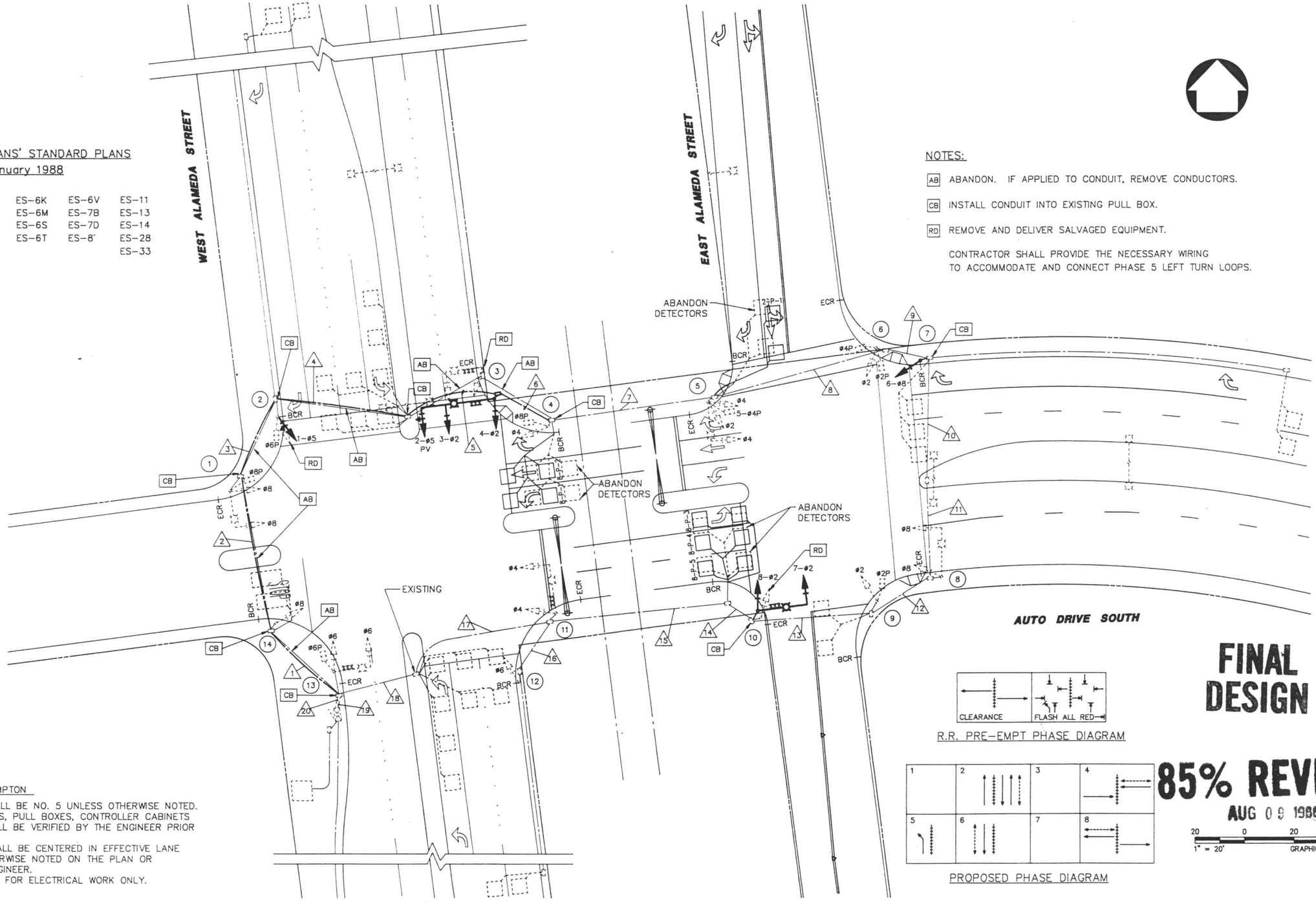
STOCKWELL TO DEL AMO BLVD.
TRAFFIC SIGNAL MODIFICATION
ALAMEDA STREET AT

CONTRACT NO. R01-T01-C
DRAWING NO. TR-0910
REV.
SHEET NO. 133

APPLICABLE CALTRANS' STANDARD PLANS
DATED January 1988

ES-1A	ES-3C	ES-5B	ES-6K	ES-6V	ES-11
ES-1B	ES-3D	ES-5C	ES-6M	ES-7B	ES-13
ES-3A	ES-3E	ES-5E	ES-6S	ES-7D	ES-14
ES-3B	ES-5A	ES-6A	ES-6T	ES-8	ES-28
					ES-33



NOTES:

AB ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.

CB INSTALL CONDUIT INTO EXISTING PULL BOX.

RD REMOVE AND DELIVER SALVAGED EQUIPMENT.

CONTRACTOR SHALL PROVIDE THE NECESSARY WIRING TO ACCOMMODATE AND CONNECT PHASE 5 LEFT TURN LOOPS.

R.R. PRE-EMPT PHASE DIAGRAM

PROPOSED PHASE DIAGRAM

FINAL DESIGN

85% REVIEW

AUG 09 1988

20 0 20 40
1" = 20' GRAPHIC SCALE

NOTES – CITY OF COMPTON

- ALL PULL BOXES SHALL BE NO. 5 UNLESS OTHERWISE NOTED.
- POSITIONING OF POLES, PULL BOXES, CONTROLLER CABINETS AND DETECTORS SHALL BE VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION.
- LOOP DETECTORS SHALL BE CENTERED IN EFFECTIVE LANE WIDTHS UNLESS OTHERWISE NOTED ON THE PLAN OR DIRECTED BY THE ENGINEER.
- THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

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STOCKWELL TO DEL AMO BLVD.
TRAFFIC SIGNAL MODIFICATION
ALAMEDA STREET AT

CONTRACT NO. R01-T01-
DRAWING NO. TR-091
REV.
SHEET NO. 13

EQUIPMENT SCHEDULE

LOCATION	STANDARD			LUMINAIRE	VEHICLE SIGNAL	PED SIGNAL	PED PUSH BUTTON		STREET NAME SIGN	POLE LOCATION				
	TYPE	SIGNAL MAST ARM	LUMINAIRE MAST ARM	WATTAGE	MOUNTING	MOUNTING	ø	ARROW	LEGEND	A	B	C	D	E
1	(E)													
2	(E)				TV-1-T									
3	19-4-70	30'	12'	200W HPS	2-MAS SV-1-T				AUTO DR. SOUTH (R)			13'		
4	(E)													
5	(E)													
6	(E)													
7	1-A				TV-1-T					6"				
8	(E)													
9	(E)													
10	17B-2-70	20'	12'	200W HPS	MAS SV-1-T				AUTO DR. SOUTH			6'		
11	(E)													
12	(E)													
13	(E)													
14	(E)													

(E) EXISTING (R) RELOCATE

CONDUCTOR SCHEDULE

AWG	CIRCUIT	RUN NUMBER																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
#14	ø2	3	3	3	3	3	3	3	3					3	3	3		3	3	3	3
	ø4	3	3	3	3	3	3	3										3	3	3	3
	ø5	3	3	3	3	3															3
	ø6																3	3	3	3	
	ø8	3	3	3	3	3	3	3	3	3			3	3	3	3		3	3	3	3
	ø2P	2	2	2	2	2	2	2	2					2	2	2		2	2	2	2
	ø4P	2	2	2	2	2	2	2	2												2
	ø6P	2	2	2																	2
	ø8P	2	2	2	2	2	2														2
	ø2PPB	1	1	1	1	1	1	1	1				1	1	1	1		1	1	1	1
	ø4PPB	1	1	1	1	1	1	1	1												1
	ø6PPB	1	1	1																	1
	ø8PPB	1	1	1	1	1	1														1
	PPB COMMON	1	1	1	1	1	1	1	1	1			1	1	1	1		1	1	1	1
	RR PRE-EMPT	6	6	6	6	6	6													6	
	SPARES	3	3	3	3	3	3	3	3	3			3	3	3	3	3	3	3	3	3
	TOTAL	34	34	34	31	31	28	19	16	7			8	13	13	13	6	19	19	25	28
#12	SIGN LIGHTING	1	1	1	1	1									1	1		1	1	1	1
	TOTAL	1	1	1	1	1									1	1		1	1	1	1
#10	120 V COMMON	1	1	1	1	1	1	1	1	1			1	1	1	1	1	1	1	1	1
	TOTAL	1	1	1	1	1	1	1	1	1			1	1	1	1	1	1	1	1	1
#8	SERVICE																				
	LUMINAIRE	2	2	2	2	2	2	2					2	2	2	2		2	2	2	2
	TOTAL	2	2	2	2	2	2	2					2	2	2	2		2	2	2	2
DLC	ø2 DET	2	2	2	2	2	2	2						1	1	1	1	2	4	4	2
	ø4 DET	3	2	2	2	2	2	2	2	1											3
	ø5 DET																		2	2	
	ø6 DET	5	5	5	4																5
	ø8 DET	2	2	2	2	2	2									3		3	3	3	2
	TOTAL	12	11	11	10	6	6	4	2	1				1	1	4	1	5	9	9	12
	CONDUIT SIZE (INCHES)	3½"	3½"	3½"	3"	3"	3"	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)

NEW HEAD SCHEDULE

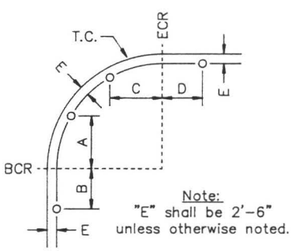
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
RLA	RLA	R12	R	HAND	R	R12	R																										
YLA	YLA	Y12	Y	MAN	Y	Y12	Y																										
GLA	GLA	G12	G		G	G12	G																										
	(PV)																																

(PV) PROGRAMMED VISIBILITY SIGNAL HEAD

FINAL DESIGN

85% REVIEW

AUG 09 1988



Note:
"E" shall be 2'-6" unless otherwise noted.

POLE LOCATION DETAIL
(No Scale)

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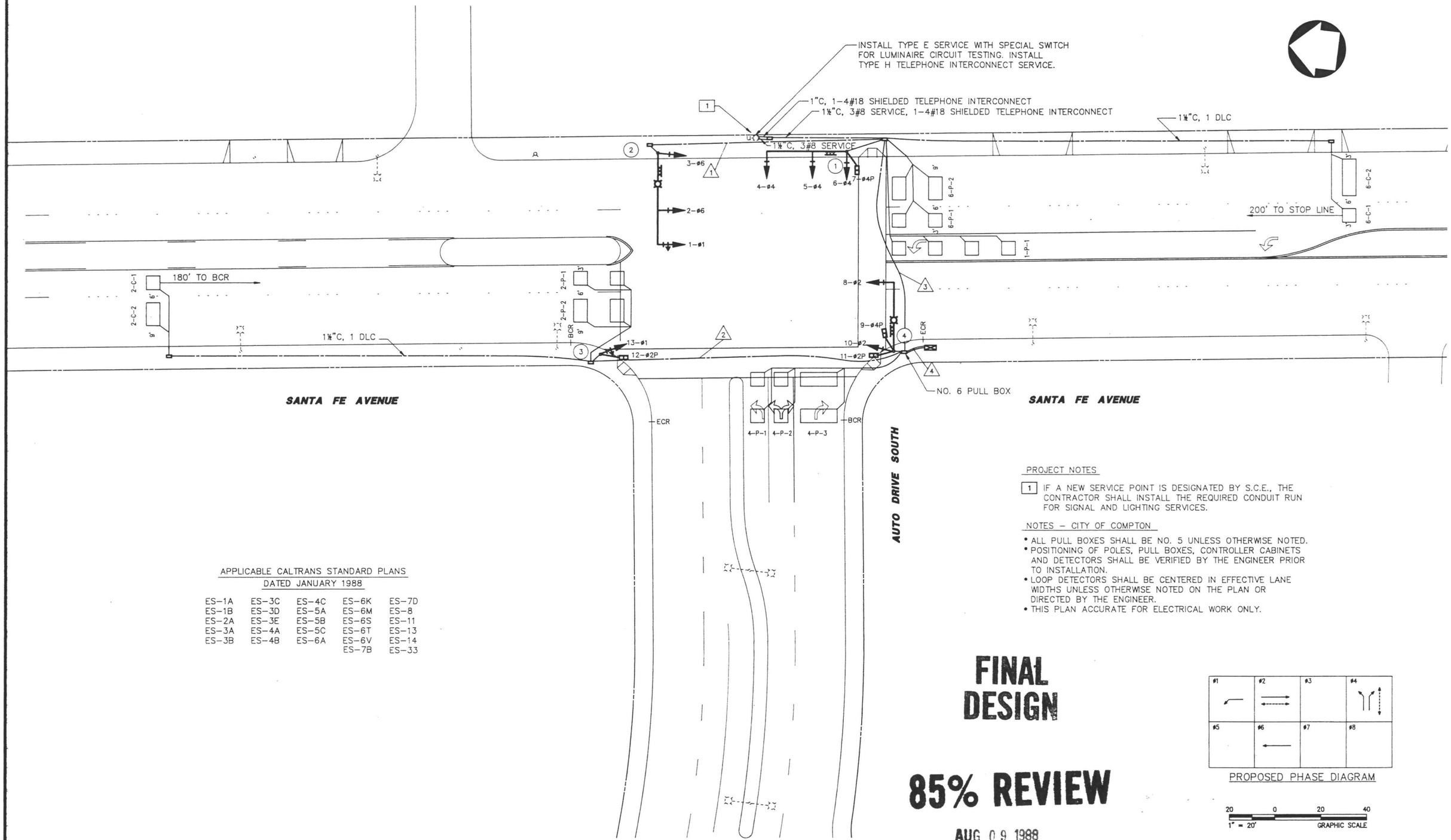
STOCKWELL TO DEL AMO BLVD.
TRAFFIC SIGNAL MODIFICATION
ALAMEDA STREET AT

CONTRACT NO. R01-T01-
DRAWING NO. TR-0912
REV.
SHEET NO. 13



APPLICABLE CALTRANS STANDARD PLANS
DATED JANUARY 1988

ES-1A	ES-3C	ES-4C	ES-6K	ES-7D
ES-1B	ES-3D	ES-5A	ES-6M	ES-8
ES-2A	ES-3E	ES-5B	ES-6S	ES-11
ES-3A	ES-4A	ES-5C	ES-6T	ES-13
ES-3B	ES-4B	ES-6A	ES-6V	ES-14
			ES-7B	ES-33

PROJECT NOTES

1 IF A NEW SERVICE POINT IS DESIGNATED BY S.C.E., THE CONTRACTOR SHALL INSTALL THE REQUIRED CONDUIT RUN FOR SIGNAL AND LIGHTING SERVICES.

NOTES – CITY OF COMPTON

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FINAL DESIGN

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PROPOSED PHASE DIAGRAM

20 0 20 40
1" = 20' GRAPHIC SCALE

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STOCKWELL TO DEL AMO BLVD.
TRAFFIC SIGNAL MODIFICATION
SANTA FE AVENUE AT

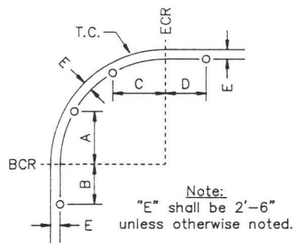
CONTRACT NO. R01-T01-
DRAWING NO. TR-0913
REV.
SHEET NO. 13

EQUIPMENT SCHEDULE

LOCATION	STANDARD TYPE	STANDARD SIGNAL MAST ARM	STANDARD LUMINAIRE MAST ARM	LUMINAIRE WATTAGE	VEHICLE SIGNAL MOUNTING	PED SIGNAL MOUNTING	PED PUSH BUTTON ø	PED PUSH BUTTON ARROW	STREET NAME SIGN LEGEND	POLE LOCATION A	B	C	D	E	REMARKS
(1)	23-4-70	35'			MAS MAS SV-1-T	SP-1-T	4	LEFT	Santa Fe Av.						INSTALL POLE NO. 1 APPROX. 2' SOUTH OF SOUTH EDGE OF CURB OF AUTO DR.
(2)	26-4-70	40'	12'	200W HPS	MAS MAS SV-1-T				Auto Dr. So.						INSTALL POLE NO. 2 APPROX. 3' SOUTH OF NORTH EDGE OF CURB OF AUTO DR.
(3)	1-A				TV-1-T	SP-1-T	2	RIGHT		12'					
(4)	19-2-70	30'	12'	200W HPS	MAS SV-1-T	SP-2-T	2/4	LEFT/LEFT	Auto Dr. So.			13'			
(5)															
(6)															
(7)															
(8)															
(9)															
(10)															
(11)															
(12)															

NEW HEAD SCHEDULE

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
RLA	R12	R12	R12	R12	R12	HAND	R12	HAND	R12	HAND	HAND	RLA			
YLA	Y12	Y12	Y12	Y12	Y12	MAN	Y12	MAN	Y12	MAN	MAN	YLA			
GLA	G12	G12	G12	G12	G12		G12		G12			GLA			



Note:
"E" shall be 2'-6" unless otherwise noted.

POLE LOCATION DETAIL
(No Scale)

CONDUCTOR SCHEDULE

AWG	CIRCUIT	RUN NUMBER 1	2	3	4	5	6	7	8	9	10	11	12
#14	ø1	3	3	3	6								
	ø2				3								
	ø4			3	3								
	ø6	3		3	3								
	ø2P		2		4								
	ø4P			2	4								
	ø2PPB		1		2								
	ø4PPB			1	2								
	PPB COMMON		1	1	1								
	SPARE	3	3	3	6								
	TOTAL	9	10	16	34								
#12	SIGN LIGHTING	1		1	2								
	TOTAL	1		1	2								
#10	SIGNAL COMMON	1	1	1	1								
	TOTAL	1	1	1	1								
#8	SERVICE			3	3								
	LUMINAIRE	2		2	4								
	TOTAL	2		5	7								
DLC	ø1 DET.			2	2								
	ø2 DET.		3		3								
	ø4 DET.				3								
	ø6 DET.			3	3								
	TOTAL		3	5	11								
INTERCONNECT 4 #18 SHIELDED				1	1								
	CONDUIT (IN)	1½"	2"	3"	2-3"								

FINAL DESIGN

85% REVIEW

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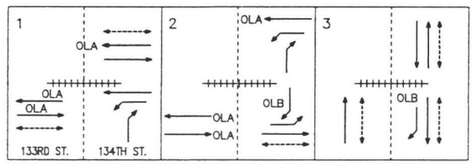
STOCKWELL TO DEL AMO BLVD.
TRAFFIC SIGNAL MODIFICATION
SANTA FE AVENUE AT

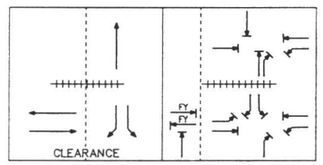
CONTRACT NO. R01-T01-
DRAWING NO. TR-091
REV.
SHEET NO. 13

NOTES – LOS ANGELES COUNTY SIGNALS

- ALL MATERIALS AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- ALL WIRING, WHETHER EXISTING OR NEW, SHALL BE MARKED (TAGGED) WITHIN THE CONTROLLER CABINET FOR PHASE IDENTIFICATION.
- (XXXX) INDICATES LOOP ASSIGNMENT IN THE CONTROLLER CABINET. EACH LOOP ASSIGNMENT SHALL HAVE A SEPARATE LEAD-IN CABLE TO THE CONTROLLER.
- ROUND LOOPS (6' DIAMETER) MAY BE SUBSTITUTED IN LIEU OF 6' X 6' OCTAGON LOOPS.
- 3-6' DIAMETER ROUND LOOPS AT 6' SPACING MAY BE SUBSTITUTED IN LIEU OF 6' X 30' LOOP.
- NEW PEDESTRIAN HEADS (7) SHALL BE MODULAR TYPE III WITH INTERNATIONAL SYMBOLS SEE SPECIAL PROVISIONS.
- ALL INTERNATIONAL SYMBOL PEDESTRIAN SIGNAL HEADS SHALL HAVE THE PEDESTRIAN PUSHBUTTON SIGNS FOR INTERNATIONAL SYMBOL SIGNALS. SEE SPECIAL PROVISIONS.
- FOR DISPOSITION OF SALVAGED MATERIALS, SEE SPECIAL PROVISIONS.
- FOR ELECTRICAL SERVICE CONNECTION, CALL SOUTHERN CALIFORNIA EDISON COMPANY MR. (213) 608-5063.
- PROPOSED SIGNING, STRIPING, AND MARKINGS BY THE CONTRACTOR.
- THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.



SIGNAL PHASE DIAGRAM



R.R. PRE-EMPT PHASING

FY FLASH YELLOW
FLASH RED

ALL PED PHASES TURN DARK DURING R.R. PR-EMPT.

NOTES

- AB ABANDON; IF APPLIED TO CONDUITS, REMOVE CONDUCTORS.
- BC INSTALL PULL BOX IN EXISTING CONDUIT RUN.
- RD REMOVE AND DELIVER SALVAGED EQUIPMENT.
- RR REMOVE AND REUSE EQUIPMENT. (2-II STREET NAME SIGNS)
- SC SPLICE NEW TO EXISTING CONDUCTORS

FINAL DESIGN

85% REVI

AUG 09 1988

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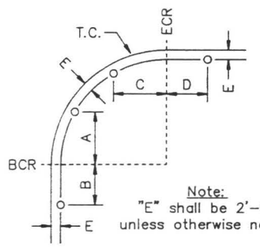
STOCKWELL TO DEL AMO BLVD.
TRAFFIC SIGNAL MODIFICATION
ALAMEDA STREET AT

CONTRACT NO. R01-T01-
DRAWING NO. TR-0915
REV.
SHEET NO. 13

POLE SCHEDULE

POLE No.	POLE TYPE	SIGNAL MAST ARM LENGTH	LUMINAIRE M.A. LENGTH	LUMINAIRE H.P.S. WATTS	PED PUSH BUTTON No.	PED PUSH BUTTON PHASE	INTERNALLY ILLUMINATED STREET NAME SIGN TYPE	INTERNALLY ILLUMINATED STREET NAME SIGN LEGEND	POLE LOCATION A	B	C	D	E	REMARKS
①	19–4–70	25'	12'	200	1	1	II	Pine Av			0			
②	17B–2–70	20'	12'	200	2	1/3	II	E. Alameda St			9'			
③	19–2–70	25'	12'	200	1	3	II	Pine Av			17'			
④	19–2–70	25'	12'	200	–	–	II	E. Alameda St			14'			
⑤	1–A	–	–	–	1	3	–		4'					
⑥	17–3–70	20'	12'	200	–	–	–				25'			
⑦	19–4–70	30'	12'	200	–	–	II	*				2'6"		
⑧	19–4–70	30'	12'	200	2	2/3	II	*			0'			

* REMOVE EXISTING II STREET NAME SIGN AND RELOCATE TO NEW MAST ARM



Note:
"E" shall be 2'–6" unless otherwise noted.

POLE LOCATION DETAIL
(No Scale)

FINAL DESIGN

85% REVIEW

AUG 09 1988

CONDUCTOR SCHEDULE

AWG	CIRCUIT	RUN NUMBER 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
#14	ø1	3	3	3	3			3	3	3	3	3	3								
	ø2	3	3	3	3	3		3	3	3	3	3	3								
	ø3	3	3	3	3	3		3	3	3	3	3	3	3	3	3	3				
	OLA	3	3	3	3	3				3	3	3	3	3	3	3	3	3			
	OLB		3							3	3	3	3								
	ø1P	2	2	2	2	2		2	2	2	2	2	2	2	2	2	2	2			
	ø2P		2							2	2	2									
	ø3P	2	2	2	2			2	2	2	2	2	2	2	2	2	2				
	ø1PPB	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1			
	ø2PPB		1							1	1	1									
	ø3PPB	1	1	1	1			1	1	1	1	1	1	1	1	1	1				
	RR PRE–EMPT		6																		
	PPB COMMON	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1			
	SPARE	6	3	6	6	3		3	3	3	3	3	3	3	3	3	3	3			
	TOTAL	25	34	25	25	16		19	19	28	28	28	25	16	16	16	16	10			
#12	SIGN LIGHTING	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1				
	TOTAL	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1				
#10	120V COMMON	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1			
	TOTAL	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1			
#8	LUMINAIRE	2	2	2	2	2		2	2	2	2	2	2	2	2	2	2				
	TOTAL	2	2	2	2	2		2	2	2	2	2	2	2	2	2	2				
#6	SERVICE		3							3	3	3									
	TOTAL		3							3	3	3									
DLC	ø1 DET.	3	5	3	3					5	1										
	ø2 DET.	4	3	4	4			2	4	2	2	2	2	2	1						
	ø3 DET.	5	1	5	4	2			1	1	1	1	1	1	1	1	1				
	OLA DET.	2	3	2	2			2	2	2	2	2	2	2	2	1	1	1			
	OLB DET.	2		2	1																
	TOTAL	16	12	16	14	2		4	7	10	6	5	5	5	4	2	2	1			
	CONDUIT (IN)	3½"	3½"	3½"	3½"	3"	3"	3"	3"	3½"	3"	3"	2½"	2½"	2½"	2"	2"	2"			

NEW HEAD SCHEDULE

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
RLA	R12	R	R	HAND	R12	R	R	HAND	HAND	R12	R	R	HAND	R12	RLA	R	RLA	R12	R	RRA	RLA	RRA	R	HAND	RLA	R12	R	HAND	HAND	HAND	R	RLA	R	R	R	R	R	R	R	HAND	R	R	HAND	HAND	HAND	R
YLA	Y12	Y	Y	MAN	Y12	Y	Y	MAN	MAN	Y12	Y	Y	MAN	Y12	YLA	Y	YLA	Y12	Y	YRA	YLA	YRA	Y	MAN	YLA	Y12	Y	MAN	MAN	MAN	Y	YLA	Y	Y	Y	Y	Y	Y	Y	MAN	Y	Y	MAN	MAN	MAN	Y
GLA	G12	G	G		G12	G	G			G12	G	G		G12	GLA	G	GLA	G12	G	GRA	GLA	GRA	G		GLA	G12	G				G	GLA	G	G	G	G	G	G	G		G	G				G
							YRA																										YRA													
							GRA																							(E)	(E)		GRA	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)

(E) EXISTING

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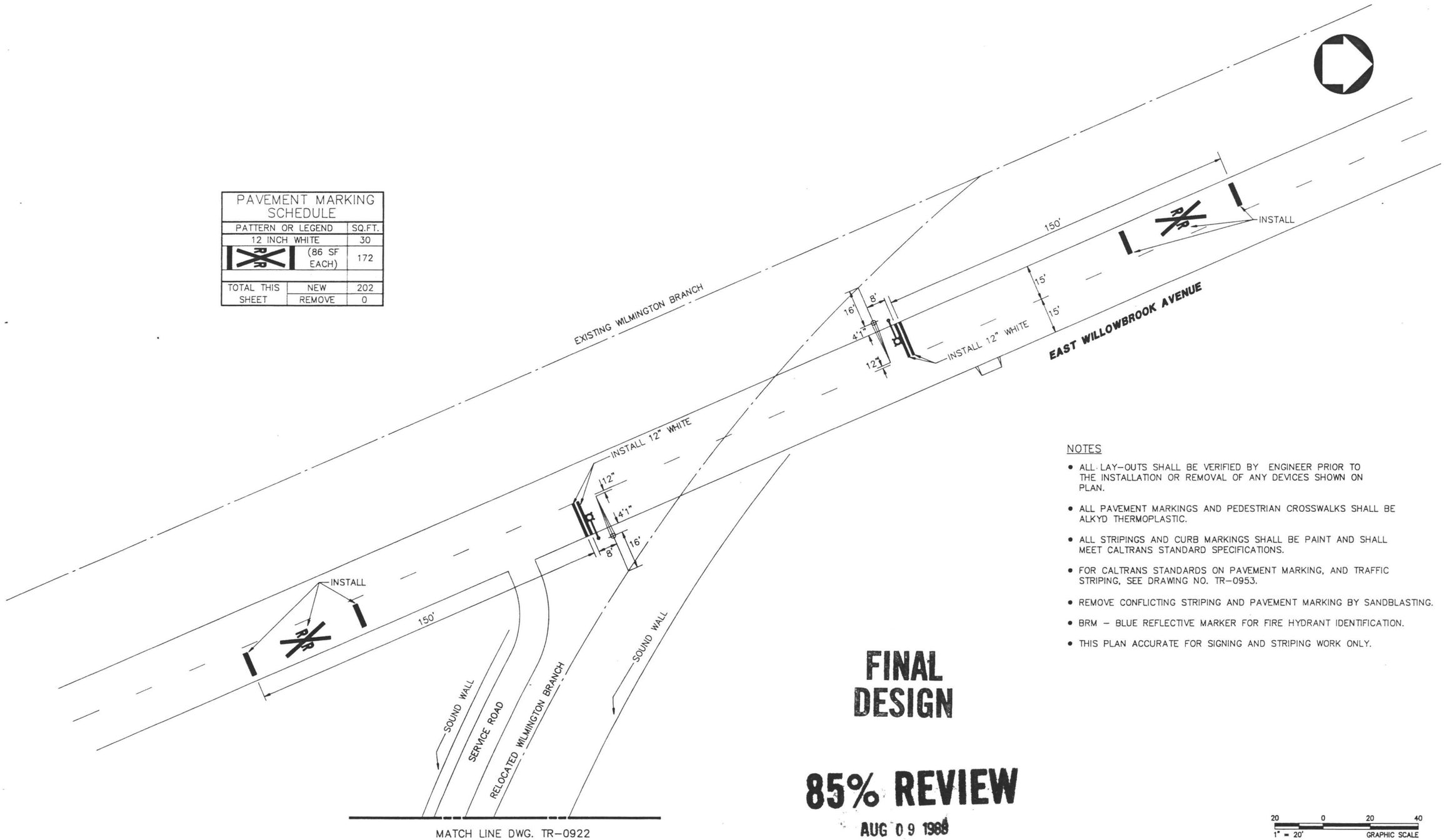
STOCKWELL TO DEL AMO BLVD
TRAFFIC SIGNAL MODIFICATION
ALAMEDA STREET AT

CONTRACT NO. R01–T01–
DRAWING NO. TR–0916
REV.
SHEET NO. 13

PAVEMENT MARKING SCHEDULE		
PATTERN OR LEGEND		SQ.FT.
12 INCH WHITE		30
	(86 SF EACH)	172
TOTAL THIS SHEET	NEW	202
	REMOVE	0



NOTES

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- REMOVE CONFLICTING STRIPING AND PAVEMENT MARKING BY SANDBLASTING.
- BRM - BLUE REFLECTIVE MARKER FOR FIRE HYDRANT IDENTIFICATION.
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FINAL DESIGN

85% REVIEW

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20 0 20 40
1" = 20' GRAPHIC SCALE

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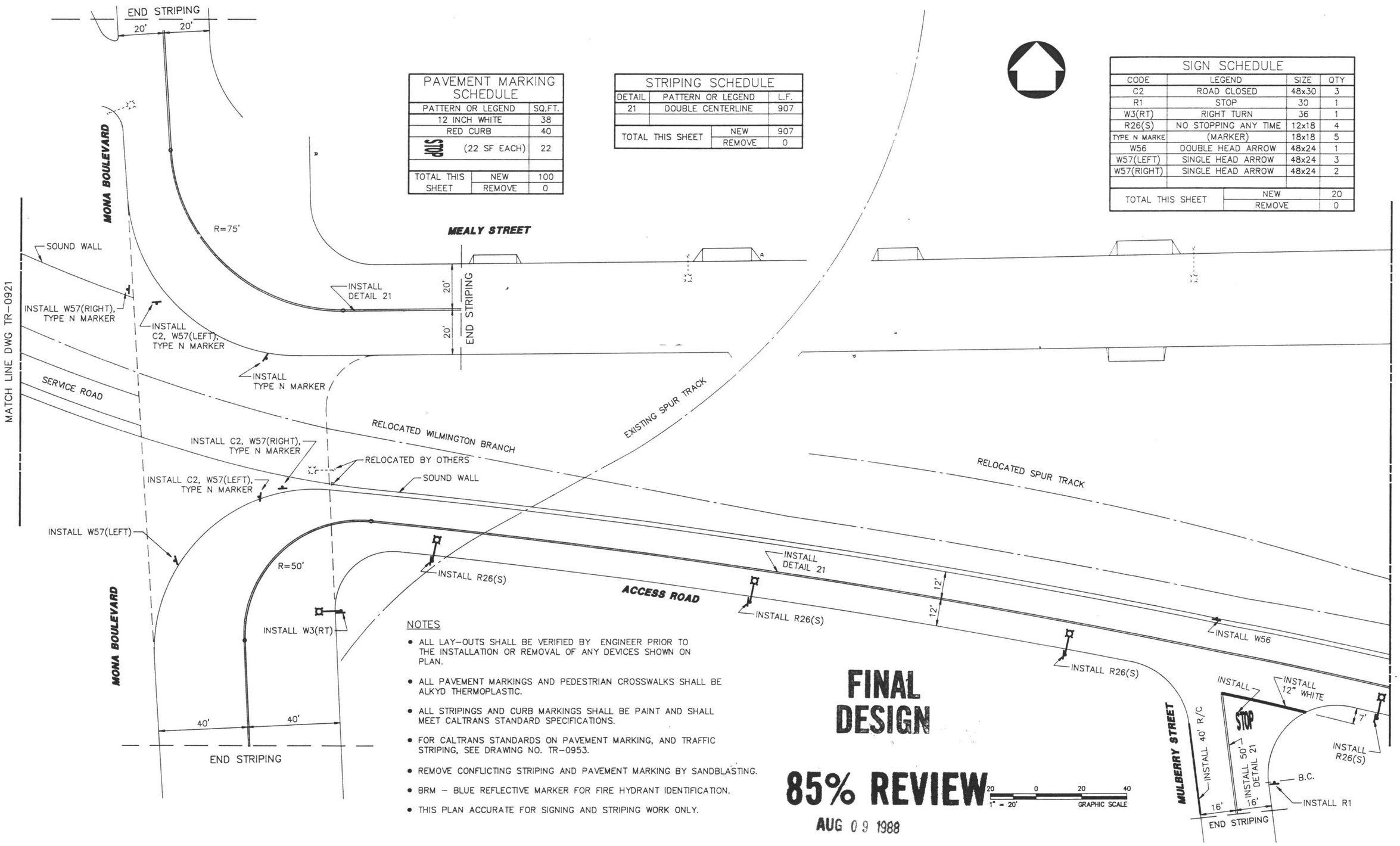
STOCKWELL TO DEL AMO BLVD.
ROADWAY SIGNING AND STRIPING
EAST WILLOWBROOK AVENUE AT

CONTRACT NO. R01-T01-
DRAWING NO. TR-092
REV.
SHEET NO. 14



PAVEMENT MARKING SCHEDULE		
PATTERN OR LEGEND		SQ.FT.
12 INCH WHITE		38
RED CURB		40
STOP (22 SF EACH)		22
TOTAL THIS SHEET	NEW	100
	REMOVE	0

STRIPING SCHEDULE		
DETAIL	PATTERN OR LEGEND	L.F.
21	DOUBLE CENTERLINE	907
TOTAL THIS SHEET	NEW	907
	REMOVE	0

SIGN SCHEDULE			
CODE	LEGEND	SIZE	QTY
C2	ROAD CLOSED	48x30	3
R1	STOP	30	1
W3(RT)	RIGHT TURN	36	1
R26(S)	NO STOPPING ANY TIME	12x18	4
TYPE N MARKE	(MARKER)	18x18	5
W56	DOUBLE HEAD ARROW	48x24	1
W57(LEFT)	SINGLE HEAD ARROW	48x24	3
W57(RIGHT)	SINGLE HEAD ARROW	48x24	2
TOTAL THIS SHEET	NEW		20
	REMOVE		0

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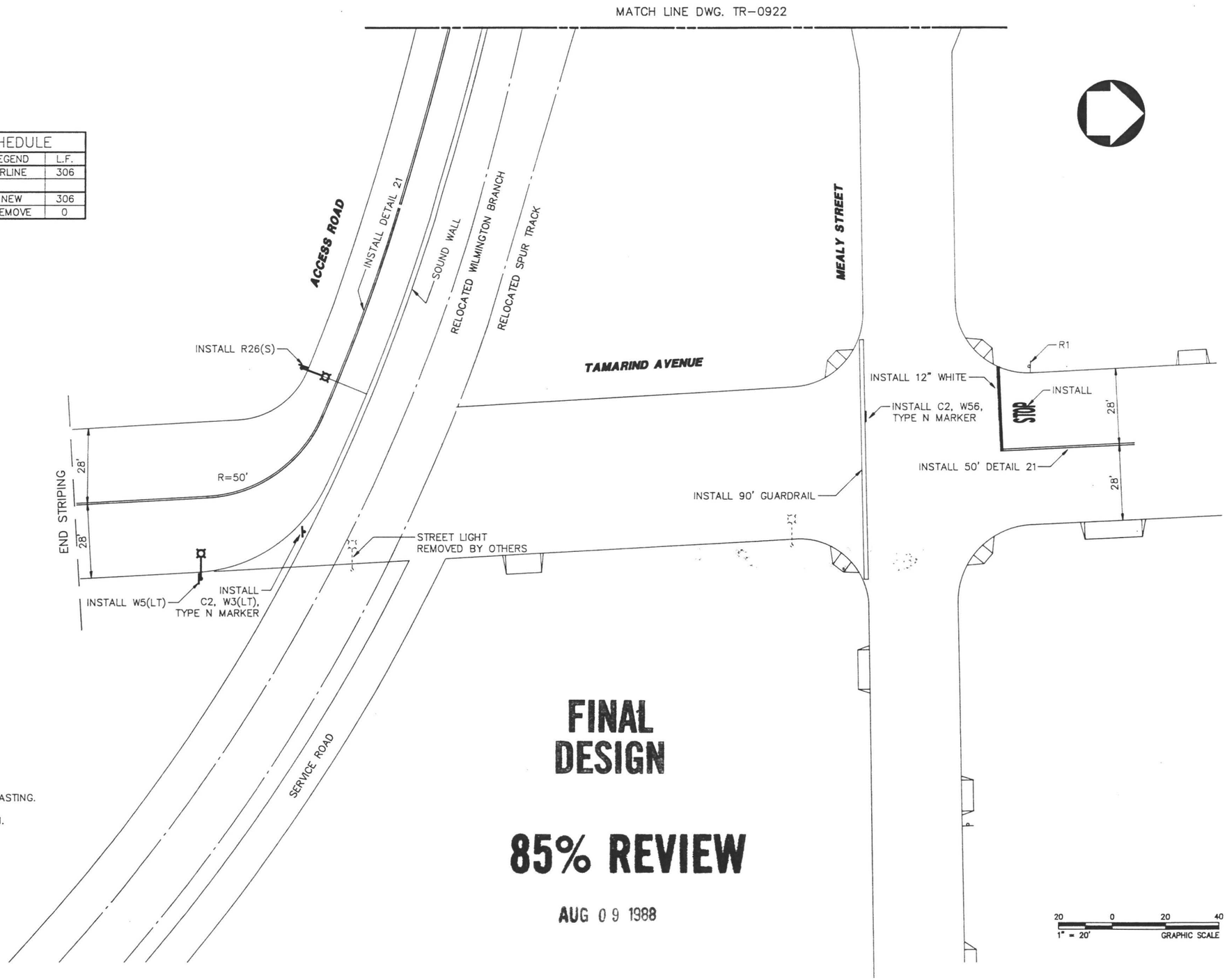
ROADWAY SIGNING AND STRIPING
MONA BOULEVARD AT

CONTRACT NO. R01-T01-
DRAWING NO. TR-0922
REV.
SHEET NO. 14

PAVEMENT MARKING SCHEDULE		
PATTERN OR LEGEND		SQ.FT.
12 INCH WHITE		32
STOP (22 SF EACH)		22
TOTAL THIS SHEET	NEW	54
	REMOVE	0

STRIPING SCHEDULE		
DETAIL	PATTERN OR LEGEND	L.F.
21	DOUBLE CENTERLINE	306
TOTAL THIS SHEET	NEW	306
	REMOVE	0

SIGN SCHEDULE			
CODE	LEGEND	SIZE	QTY
C2	ROAD CLOSED	48x30	2
R26(S)	NO STOPPING ANY TIME	12x18	1
TYPE N MARKE	(MARKER)	18x18	2
W3(LT)	LEFT TURN	36	1
W5(LT)	LEFT CURVE	36	1
W56	DOUBLE HEAD ARROW	48x24	1
TOTAL THIS SHEET	NEW		8
	REMOVE		0



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STOCKWELL TO DEL AMO BLVD.
ROADWAY SIGNING AND STRIPING
TAMARIND AVENUE AT

CONTRACT NO. R01-T01-
DRAWING NO. TR-092
REV.
SHEET NO. 14

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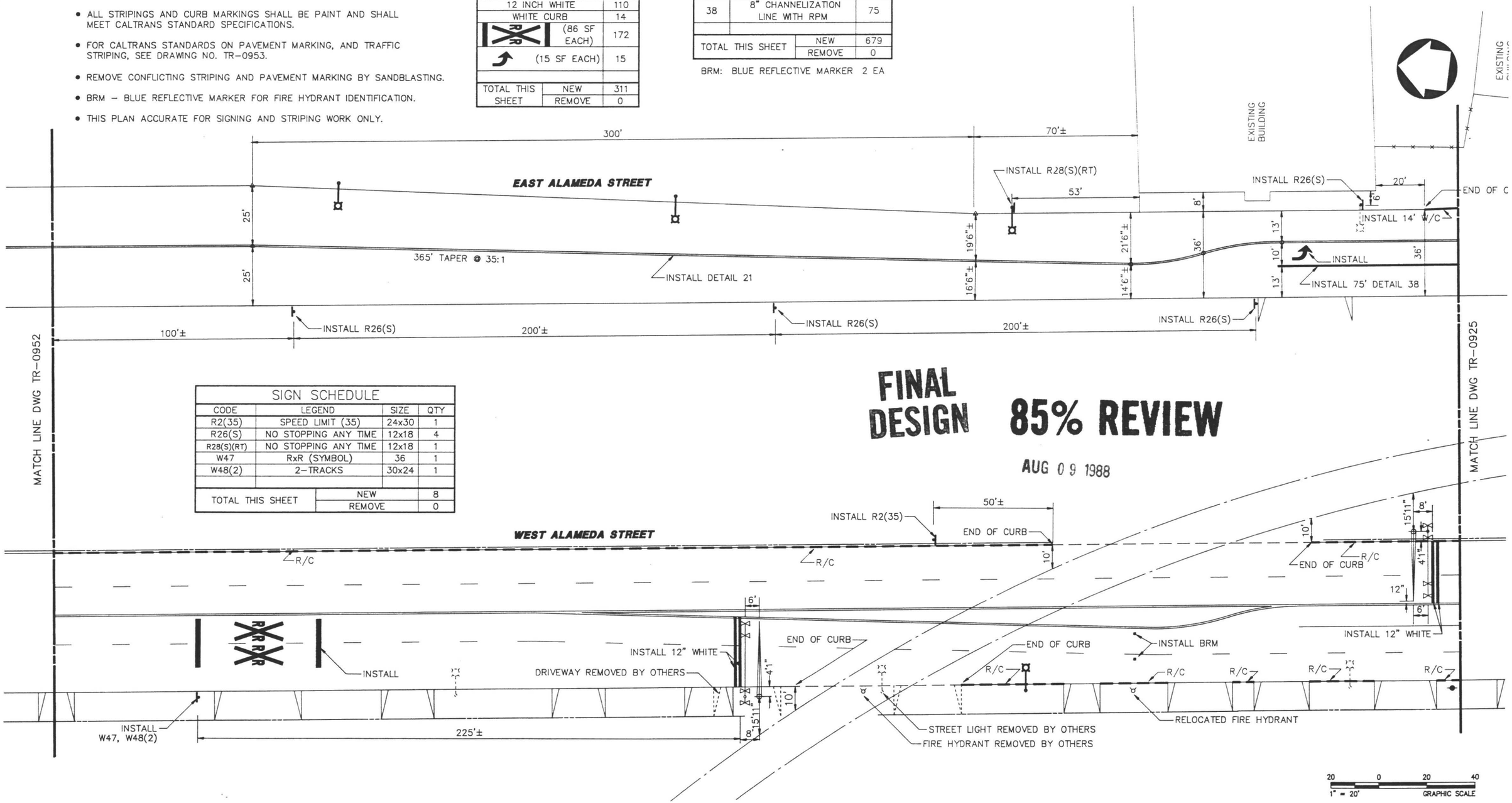
PAVEMENT MARKING SCHEDULE		
PATTERN OR LEGEND		SQ.FT.
12 INCH WHITE		110
WHITE CURB		14
(86 SF EACH)		172
(15 SF EACH)		15
TOTAL THIS SHEET	NEW	311
	REMOVE	0

STRIPING SCHEDULE		
DETAIL	PATTERN OR LEGEND	L.F.
21	DOUBLE CENTERLINE	604
38	8" CHANNELIZATION LINE WITH RPM	75
TOTAL THIS SHEET	NEW	679
	REMOVE	0

BRM: BLUE REFLECTIVE MARKER 2 EA

SIGN SCHEDULE			
CODE	LEGEND	SIZE	QTY
R2(35)	SPEED LIMIT (35)	24x30	1
R26(S)	NO STOPPING ANY TIME	12x18	4
R28(S)(RT)	NO STOPPING ANY TIME	12x18	1
W47	RxR (SYMBOL)	36	1
W48(2)	2-TRACKS	30x24	1
TOTAL THIS SHEET	NEW		8
	REMOVE		0



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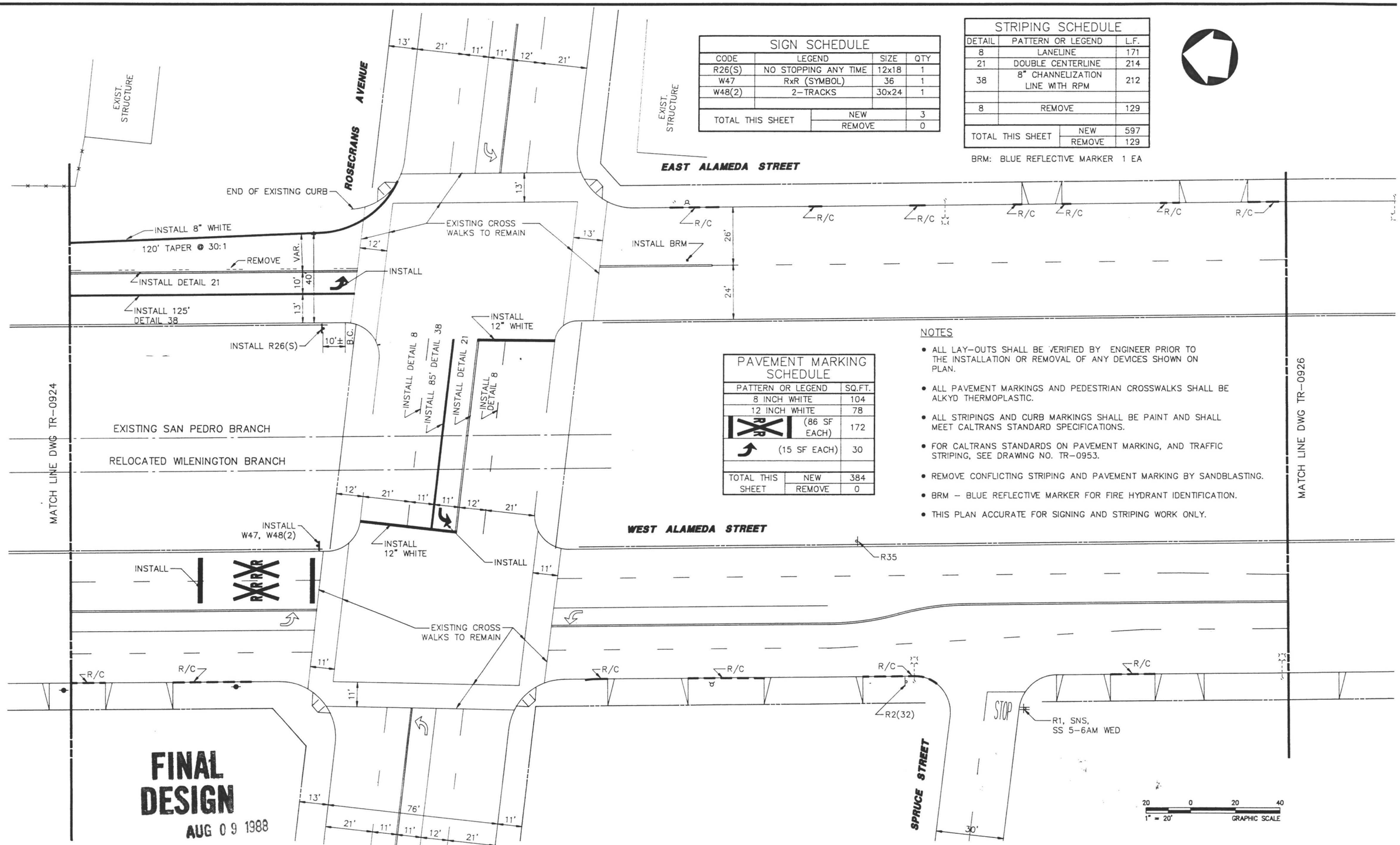
STOCKWELL TO DEL AMO BLVD.
ROADWAY SIGNING AND STRIPING
ALAMEDA STREET

CONTRACT NO. R01-T01-
DRAWING NO. TR-092
REV.
SHEET NO. 14



SIGN SCHEDULE			
CODE	LEGEND	SIZE	QTY
R26(S)	NO STOPPING ANY TIME	12x18	1
W47	RxR (SYMBOL)	36	1
W48(2)	2-TRACKS	30x24	1
TOTAL THIS SHEET	NEW		3
	REMOVE		0

STRIPING SCHEDULE		
DETAIL	PATTERN OR LEGEND	L.F.
8	LANELINE	171
21	DOUBLE CENTERLINE	214
38	8" CHANNELIZATION LINE WITH RPM	212
8	REMOVE	129
TOTAL THIS SHEET	NEW	597
	REMOVE	129

BRM: BLUE REFLECTIVE MARKER 1 EA

PAVEMENT MARKING SCHEDULE		
PATTERN OR LEGEND		SQ.FT.
8 INCH WHITE		104
12 INCH WHITE		78
RXR	(86 SF EACH)	172
	(15 SF EACH)	30
TOTAL THIS SHEET	NEW	384
	REMOVE	0

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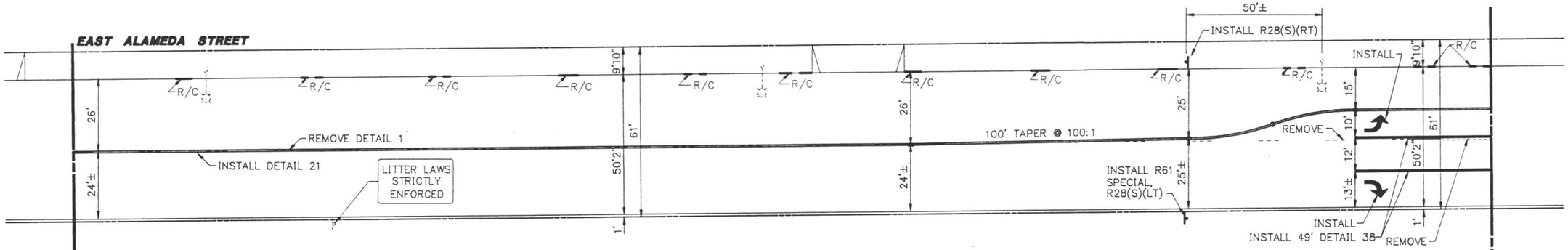
ROADWAY SIGNING AND STRIPING
ALAMEDA STREET AT

CONTRACT NO. R01-T01-
DRAWING NO. TR-092
REV.
SHEET NO. 14



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PAVEMENT MARKING SCHEDULE

PATTERN OR LEGEND		SQ.FT.
(15 SF EACH)		30
TOTAL THIS SHEET	NEW	30
	REMOVE	0

STRIPING SCHEDULE

DETAIL	PATTERN OR LEGEND	L.F.
8	LANELINE	75
21	DOUBLE CENTERLINE	481
38	8" CHANNELIZATION LINE WITH RPM	98
1	REMOVE	492
8	REMOVE	75
21	REMOVE	18
TOTAL THIS SHEET	NEW	654
	REMOVE	585

SIGN SCHEDULE

CODE	LEGEND	SIZE	QTY
R28(S)(LT)	NO STOPPING ANY TIME	12x18	1
R28(S)(RT)	NO STOPPING ANY TIME	12x18	1
R61 SPECIAL	LANE-USE CONTROL	–	1
TOTAL THIS SHEET	NEW		3
	REMOVE		0

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ROADWAY SIGNING AND STRIPING
ALAMEDA STREET AT MAPLE STREET

CONTRACT NO. R01-T01-
DRAWING NO. TR-092
REV.
SHEET NO. 4

SIGN SCHEDULE			
CODE	LEGEND	SIZE	QTY
R26(S)	NO STOPPING ANY TIME	12x18	1
R28(S)(LT)	NO STOPPING ANY TIME	12x18	1
R32(2)(7AM–6PM)	2–HOUR PARKING	12x18	2
R32(2)	REMOVE	–	1
TOTAL THIS SHEET	NEW		4
	REMOVE		1

STRIPING SCHEDULE		
DETAIL	PATTERN OR LEGEND	L.F.
8	LANELINE	120
21	DOUBLE CENTERLINE	580
38	8" CHANNELIZATION LINE WITH RPM	158
39	12" WHITE CROSSWALK AND LIMIT LINE	51
1	REMOVE	499
8	REMOVE	185
21	REMOVE	132
38	REMOVE	
TOTAL THIS SHEET	NEW	909
	REMOVE	816

BRM: BLUE REFLECTIVE MARKER 3 EA

PAVEMENT MARKING SCHEDULE		
PATTERN OR LEGEND		SQ.FT.
12 INCH WHITE		105
BLUE CURB		50
YELLOW CURB		105
	(15 SF EACH)	45
STOP	(22 SF EACH)	154
REMOVE YELLOW CURB		50
REMOVE RED CURB		53
REMOVE BLUE CURB		26
REMOVE R X R		140
REMOVE STOP		44
TOTAL THIS SHEET	NEW	482
	REMOVE	313

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STOCKWELL TO DEL AMO BLVD.
ROADWAY SIGNING AND STRIPING
ALAMEDA STREET AT

CONTRACT NO. R01–T01–
DRAWING NO. TR–0927
REV.
SHEET NO. 14

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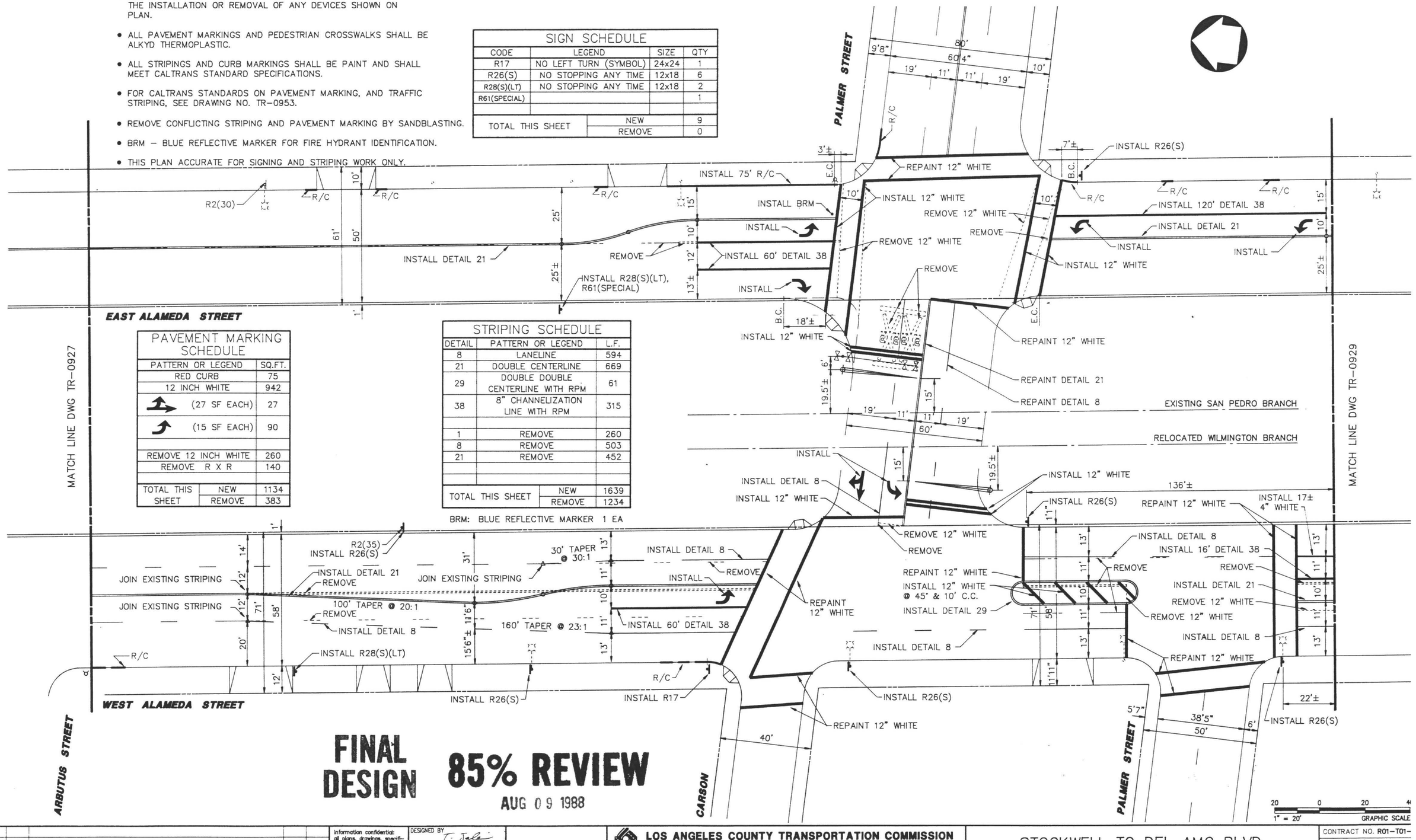
SIGN SCHEDULE			
CODE	LEGEND	SIZE	QTY
R17	NO LEFT TURN (SYMBOL)	24x24	1
R26(S)	NO STOPPING ANY TIME	12x18	6
R28(S)(LT)	NO STOPPING ANY TIME	12x18	2
R61(SPECIAL)			1
TOTAL THIS SHEET	NEW		9
	REMOVE		0

PAVEMENT MARKING SCHEDULE		
PATTERN OR LEGEND		SQ.FT.
RED CURB		75
12 INCH WHITE		942
(27 SF EACH)		27
(15 SF EACH)		90
REMOVE 12 INCH WHITE		260
REMOVE R X R		140
TOTAL THIS SHEET	NEW	1134
	REMOVE	383

STRIPING SCHEDULE		
DETAIL	PATTERN OR LEGEND	L.F.
8	LANELINE	594
21	DOUBLE CENTERLINE	669
29	DOUBLE DOUBLE CENTERLINE WITH RPM	61
38	8" CHANNELIZATION LINE WITH RPM	315
1	REMOVE	260
8	REMOVE	503
21	REMOVE	452
TOTAL THIS SHEET	NEW	1639
	REMOVE	1234

BRM: BLUE REFLECTIVE MARKER 1 EA



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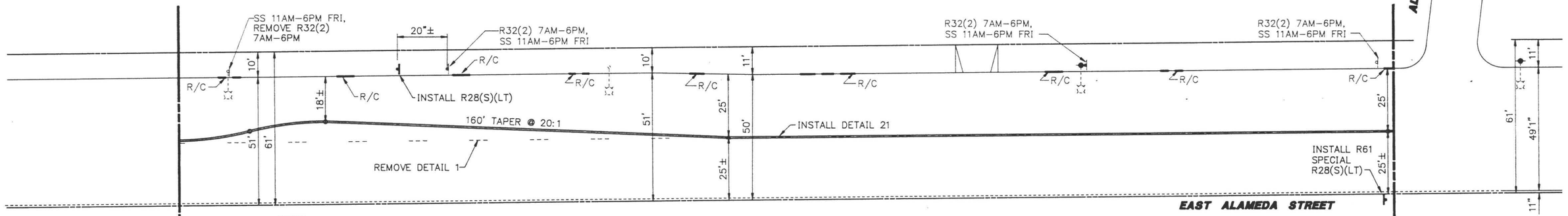
ROADWAY SIGNING AND STRIPING
ALAMEDA STREET AT

CONTRACT NO. R01-T01-
DRAWING NO. TR-0928
REV.
SHEET NO. 14



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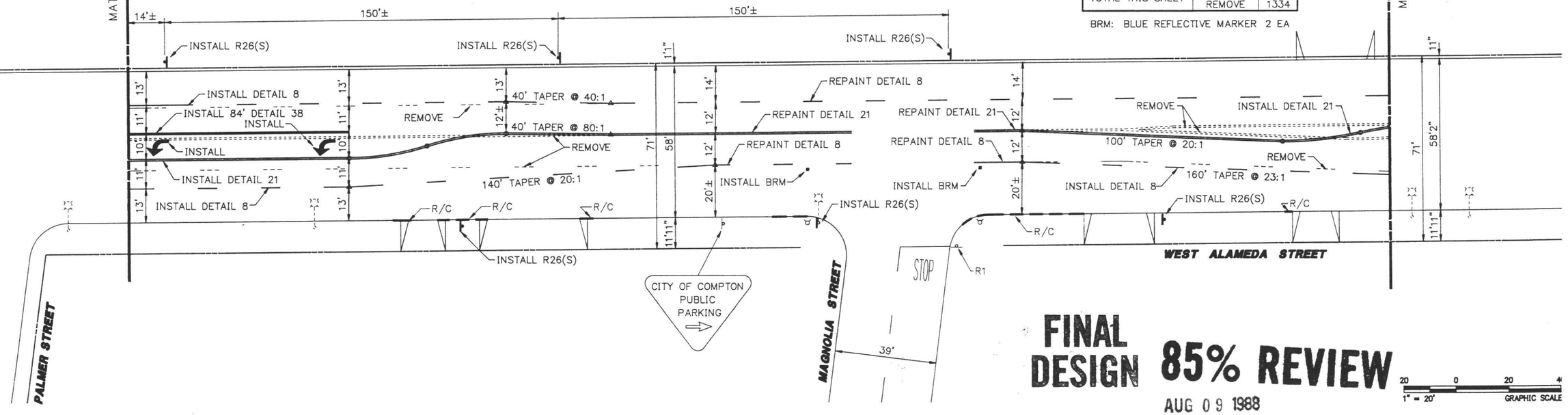
PAVEMENT MARKING SCHEDULE		
PATTERN OR LEGEND		SQ.FT.
(15 SF EACH)		30
TOTAL THIS SHEET	NEW	30
	REMOVE	0

SIGN SCHEDULE			
CODE	LEGEND	SIZE	QTY
R26(S)	NO STOPPING ANY TIME	12x18	6
R28(S)(LT)	NO STOPPING ANY TIME	12x18	1
R61 SPECIAL	LANE–USE CONTROL	–	1
R32(2)	REMOVE	–	1
TOTAL THIS SHEET	NEW		8
	REMOVE		1

STRIPING SCHEDULE		
DETAIL	PATTERN OR LEGEND	L.F.
8	LANELINE	918
21	DOUBLE CENTERLINE	921
38	8" CHANNELIZATION LINE WITH RPM	84
8	REMOVE	1032
21	REMOVE	184
28	REMOVE	118
TOTAL THIS SHEET	NEW	1923
	REMOVE	1334

BRM: BLUE REFLECTIVE MARKER 2 EA



FINAL DESIGN 85% REVIEW

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1" = 20' GRAPHIC SCALE

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DRAWN BY C.T.J.
CHECKED BY T. Jalali
APPROVED BY

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The Long Beach–Los Angeles Rail Transit Project

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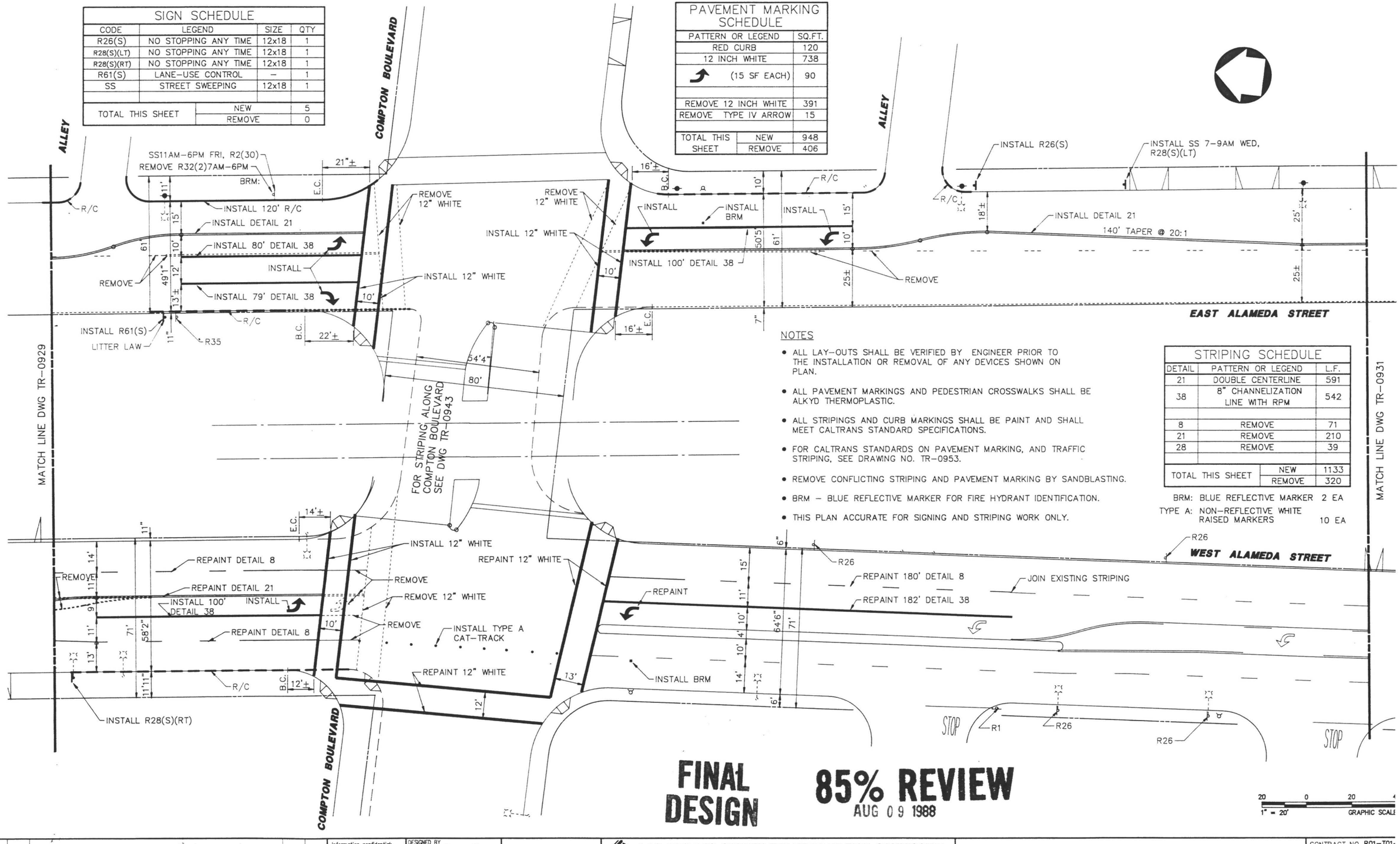
STOCKWELL TO DEL AMO BLVD.
ROADWAY SIGING AND STRIPING
ALAMEDA STREET AT MAGNOLIA STREET

CONTRACT NO. R01–T01–
DRAWING NO. TR–092
REV.
SHEET NO. 14

SIGN SCHEDULE			
CODE	LEGEND	SIZE	QTY
R26(S)	NO STOPPING ANY TIME	12x18	1
R28(S)(LT)	NO STOPPING ANY TIME	12x18	1
R28(S)(RT)	NO STOPPING ANY TIME	12x18	1
R61(S)	LANE-USE CONTROL	–	1
SS	STREET SWEEPING	12x18	1
TOTAL THIS SHEET	NEW		5
	REMOVE		0

PAVEMENT MARKING SCHEDULE		
PATTERN OR LEGEND		SQ.FT.
RED CURB		120
12 INCH WHITE		738
(15 SF EACH)		90
REMOVE 12 INCH WHITE		391
REMOVE TYPE IV ARROW		15
TOTAL THIS SHEET	NEW	948
	REMOVE	406



NOTES

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- FOR CALTRANS STANDARDS ON PAVEMENT MARKING, AND TRAFFIC STRIPING, SEE DRAWING NO. TR-0953.
- REMOVE CONFLICTING STRIPING AND PAVEMENT MARKING BY SANDBLASTING.
- BRM – BLUE REFLECTIVE MARKER FOR FIRE HYDRANT IDENTIFICATION.
- THIS PLAN ACCURATE FOR SIGNING AND STRIPING WORK ONLY.

STRIPING SCHEDULE		
DETAIL	PATTERN OR LEGEND	L.F.
21	DOUBLE CENTERLINE	591
38	8" CHANNELIZATION LINE WITH RPM	542
8	REMOVE	71
21	REMOVE	210
28	REMOVE	39
TOTAL THIS SHEET	NEW	1133
	REMOVE	320

BRM: BLUE REFLECTIVE MARKER 2 EA

TYPE A: NON-REFLECTIVE WHITE RAISED MARKERS 10 EA

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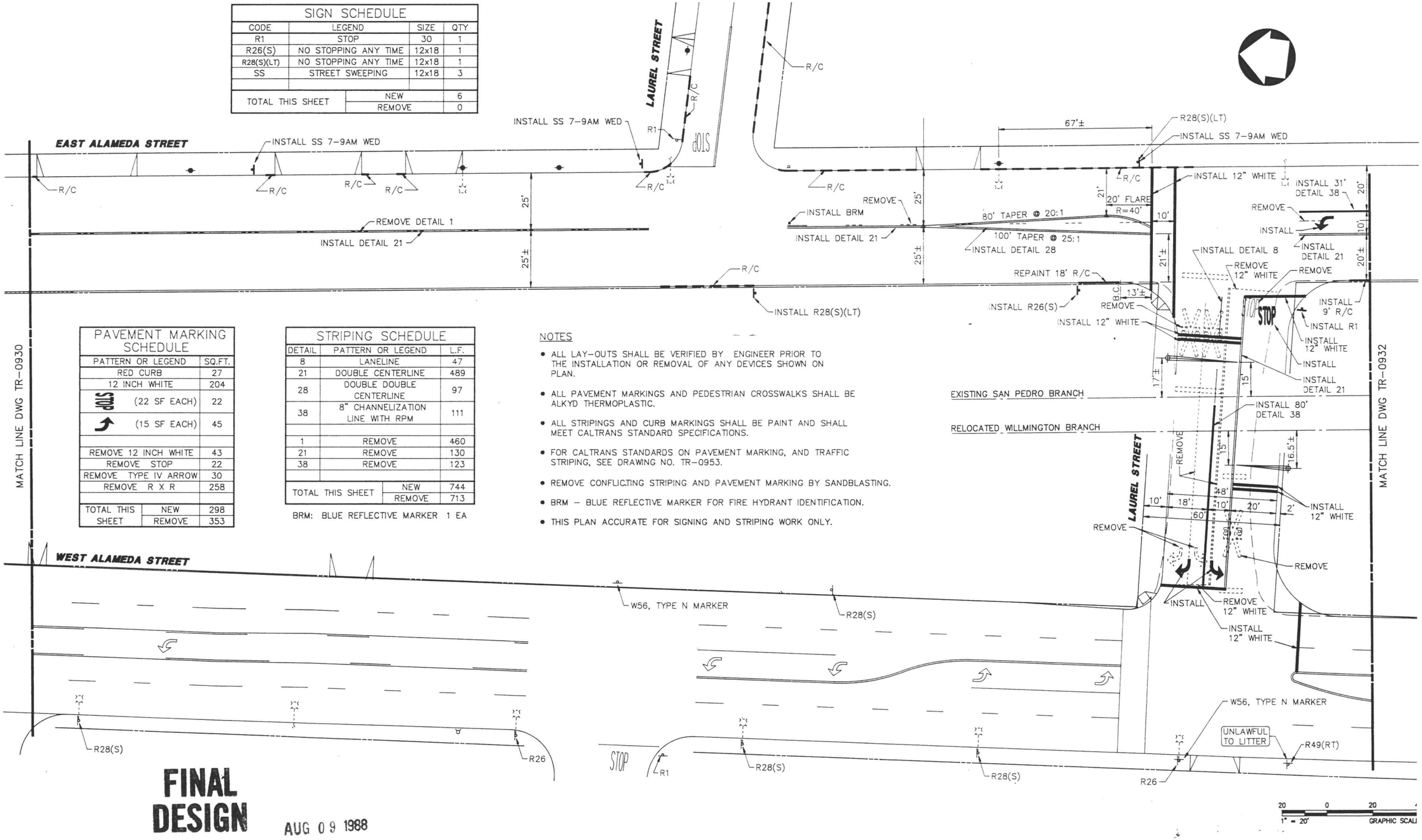
STOCKWELL TO DEL AMO BLVD.
ROADWAY SIGNING AND STRIPING
ALAMEDA STREET AT

CONTRACT NO. R01-T01-
DRAWING NO. TR-093
REV. | SHEET NO. 14

SIGN SCHEDULE			
CODE	LEGEND	SIZE	QTY
R1	STOP	30	1
R26(S)	NO STOPPING ANY TIME	12x18	1
R28(S)(LT)	NO STOPPING ANY TIME	12x18	1
SS	STREET SWEEPING	12x18	3
TOTAL THIS SHEET	NEW		6
	REMOVE		0



PAVEMENT MARKING SCHEDULE		
PATTERN OR LEGEND		SQ.FT.
RED CURB		27
12 INCH WHITE		204
STOP	(22 SF EACH)	22
	(15 SF EACH)	45
REMOVE 12 INCH WHITE		43
REMOVE STOP		22
REMOVE TYPE IV ARROW		30
REMOVE R X R		258
TOTAL THIS SHEET	NEW	298
	REMOVE	353

STRIPING SCHEDULE		
DETAIL	PATTERN OR LEGEND	L.F.
8	LANELINE	47
21	DOUBLE CENTERLINE	489
28	DOUBLE DOUBLE CENTERLINE	97
38	8" CHANNELIZATION LINE WITH RPM	111
1	REMOVE	460
21	REMOVE	130
38	REMOVE	123
TOTAL THIS SHEET	NEW	744
	REMOVE	713

BRM: BLUE REFLECTIVE MARKER 1 EA

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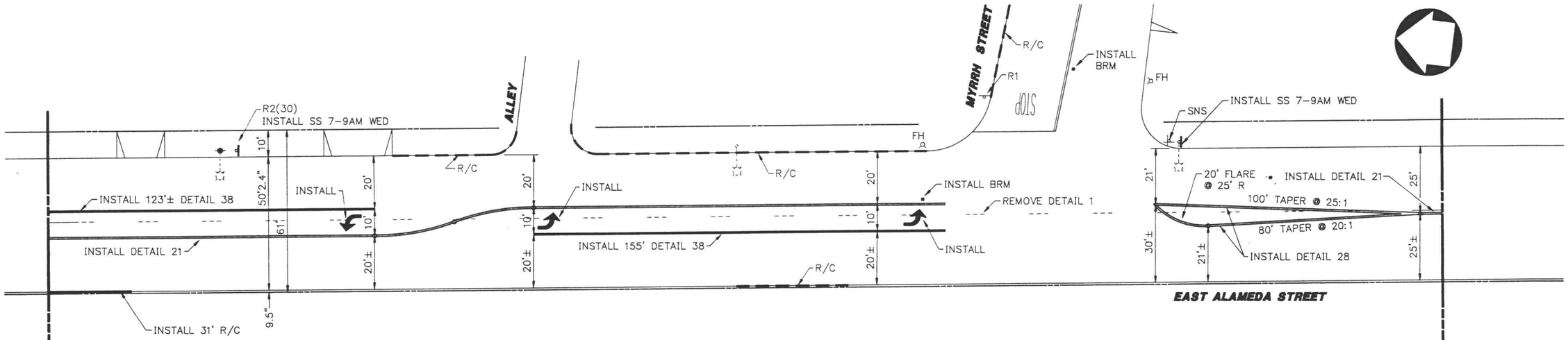
STOCKWELL TO DEL AMO BLVD.
ROADWAY SIGNING AND STRIPING
ALAMEDA STREET AT

CONTRACT NO. R01-T01-
DRAWING NO. TR-093
REV.
SHEET NO. 15



MATCH LINE DWG TR-0931

MATCH LINE DWG TR-0933

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PAVEMENT MARKING SCHEDULE

PATTERN OR LEGEND		SQ.FT.
RED CURB		31
(15 SF EACH)		45
TOTAL THIS SHEET	NEW	76
	REMOVE	0

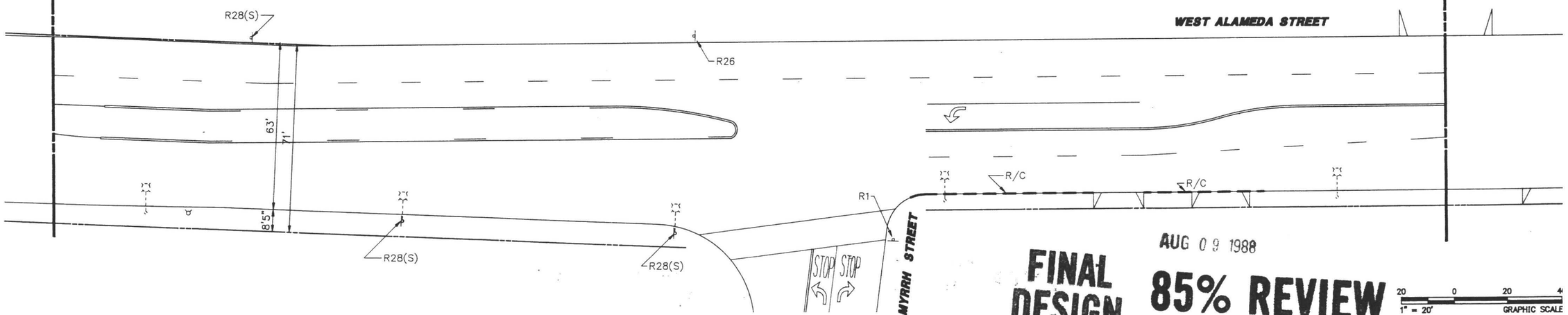
STRIPING SCHEDULE

DETAIL	PATTERN OR LEGEND	L.F.
21	DOUBLE CENTERLINE	347
28	DOUBLE DOUBLE CENTERLINE	97
38	8" CHANNELIZATION LINE WITH RPM	278
1	REMOVE	525
TOTAL THIS SHEET	NEW	722
	REMOVE	525

BRM: BLUE REFLECTIVE MARKER 2 EA

SIGN SCHEDULE

CODE	LEGEND	SIZE	QTY
SS	STREET SWEEPING	12x18	2
TOTAL THIS SHEET	NEW		2
	REMOVE		0



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CHECKED BY T. Jabi
APPROVED BY

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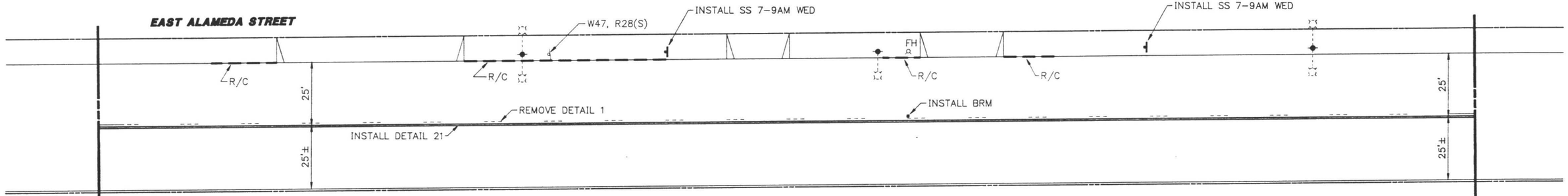
STOCKWELL TO DEL AMO BLVD.
ROADWAY SIGNING AND STRIPING
ALAMEDA STREET AT MYRRH STREET

CONTRACT NO. R01-T01-
DRAWING NO. TR-093[illegible]
REV.
SHEET NO. [illegible]



MATCH LINE DWG TR-0932

MATCH LINE DWG TR-0934

NOTES

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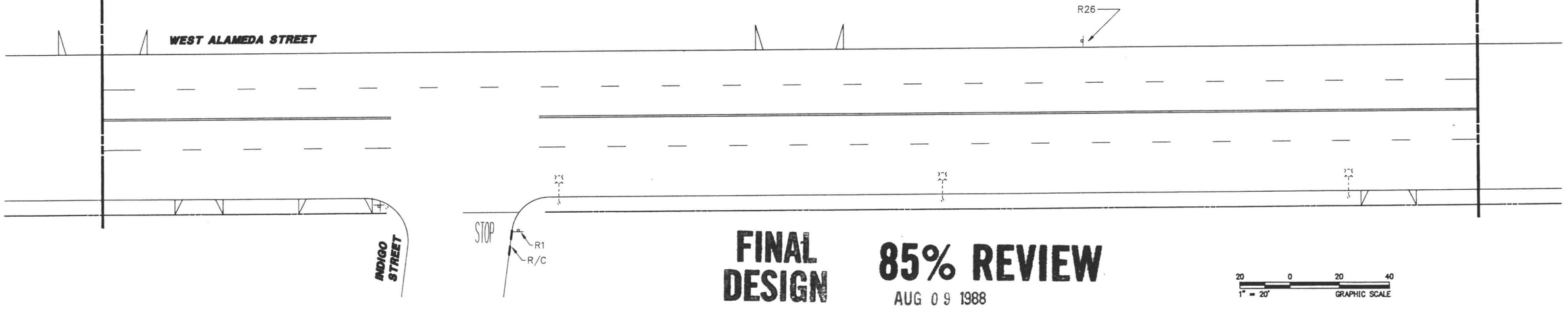
STRIPING SCHEDULE

DETAIL	PATTERN OR LEGEND		L.F.
21	DOUBLE CENTERLINE		547
1	REMOVE		547
TOTAL THIS SHEET		NEW	547
		REMOVE	547

BRM: BLUE REFLECTIVE MARKER 1 EA

SIGN SCHEDULE

CODE	LEGEND	SIZE	QTY
SS	STREET SWEEPING	12x18	2
TOTAL THIS SHEET	NEW		2
	REMOVE		0



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DRAWN BY C. T. J
CHECKED BY T. Jabi
APPROVED BY

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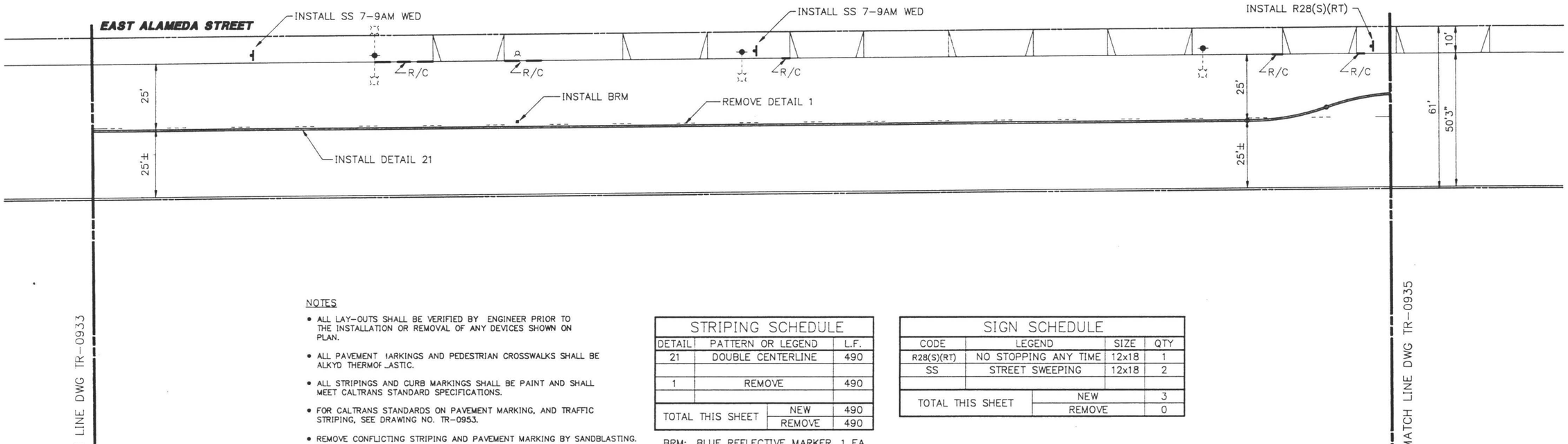
STOCKWELL TO DEL AMO BLVD.
ROADWAY SIGNING AND STRIPING
ALAMEDA STREET AT INDIGO STREET

CONTRACT NO. R01-T01-
DRAWING NO. TR-093.
REV.
SHEET NO. 15



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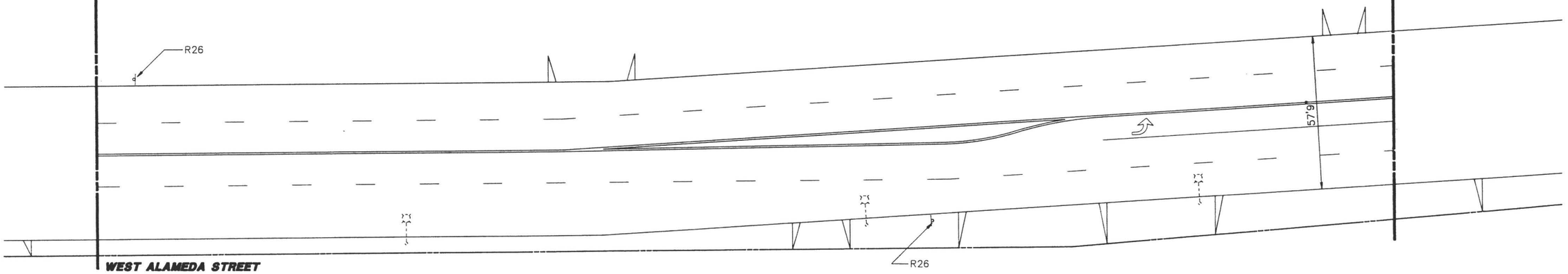
STRIPING SCHEDULE			
DETAIL	PATTERN OR LEGEND		L.F.
21	DOUBLE CENTERLINE		490
1	REMOVE		490
TOTAL THIS SHEET		NEW	490
		REMOVE	490

BRM: BLUE REFLECTIVE MARKER 1 EA

SIGN SCHEDULE			
CODE	LEGEND	SIZE	QTY
R28(S)(RT)	NO STOPPING ANY TIME	12x18	1
SS	STREET SWEEPING	12x18	2
TOTAL THIS SHEET		NEW	3
		REMOVE	0



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1" = 20' GRAPHIC SCALE

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STOCKWELL TO DEL AMO BLVD.
ROADWAY SIGNING AND STRIPING
ALAMEDA STREET NORTH OF ALONDRA

CONTRACT NO. R01-T01-
DRAWING NO. TR-093
REV.
SHEET NO. 1

STRIPING SCHEDULE		
DETAIL	PATTERN OR LEGEND	L.F.
21	DOUBLE CENTERLINE	456
38	8" CHANNELIZATION LINE WITH RPM	297
21	REMOVE	211
38	REMOVE	64
TOTAL THIS SHEET	NEW	753
	REMOVE	275

BRM: BLUE REFLECTIVE MARKER 1 EA

SIGN SCHEDULE			
CODE	LEGEND	SIZE	QTY
R26(S)	NO STOPPING ANY TIME	12x18	3
R28(S)(LT)	NO STOPPING ANY TIME	12x18	1
R61 SPECIAL	LANE-USE CONTROL	–	1
TOTAL THIS SHEET	NEW		5
	REMOVE		0

PAVEMENT MARKING SCHEDULE		
PATTERN OR LEGEND		SQ.FT.
12 INCH WHITE		551
(15 SF EACH)		75
REMOVE 12 INCH WHITE		402
REMOVE TYPE IV ARROW		15
TOTAL THIS SHEET	NEW	626
	REMOVE	417

NOTES

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ALONDRA BOULEVARD
EAST ALAMEDA STREET
WEST ALAMEDA STREET
RAYMOND STREET
INSTALL R26(S)
32'±
E.C.
INSTALL BRM
INSTALL DETAIL 21
REMOVE
INSTALL
INSTALL 120' DETAIL 38
INSTALL 118'± DETAIL 38
INSTALL R61 SPECIAL
15'
10'
12'
13'±
B.C.
11'±
REMOVE 12" WHITE
REMOVE 12" WHITE
INSTALL 12" WHITE
INSTALL 12" WHITE
12'
17'±
9'±
INSTALL R26(S)
INSTALL 60' DETAIL 38
60' TAPER @ 20:1
SS 8-11AM WED
INSTALL R28(S)(LT)
INSTALL DETAIL 21
19'±
17'±
21'
R28(S), R2(35)
MATCH LINE DWG. TR-0934
MATCH LINE DWG. TR-0936
ECR
EXISTING SAN PEDRO BRANCH
RELOCATED WILMINGTON BRANCH
FOR STRIPING ALONG ALONDRA BOULEVARD SEE DWG TR-0945
12'±
REMOVE 12" WHITE
REPAINT 12" WHITE
INSTALL 12" WHITE
24'±
5'±
19'±
R/C
R26
R1
STOP
20 0 20 40
1" = 20' GRAPHIC SCALE

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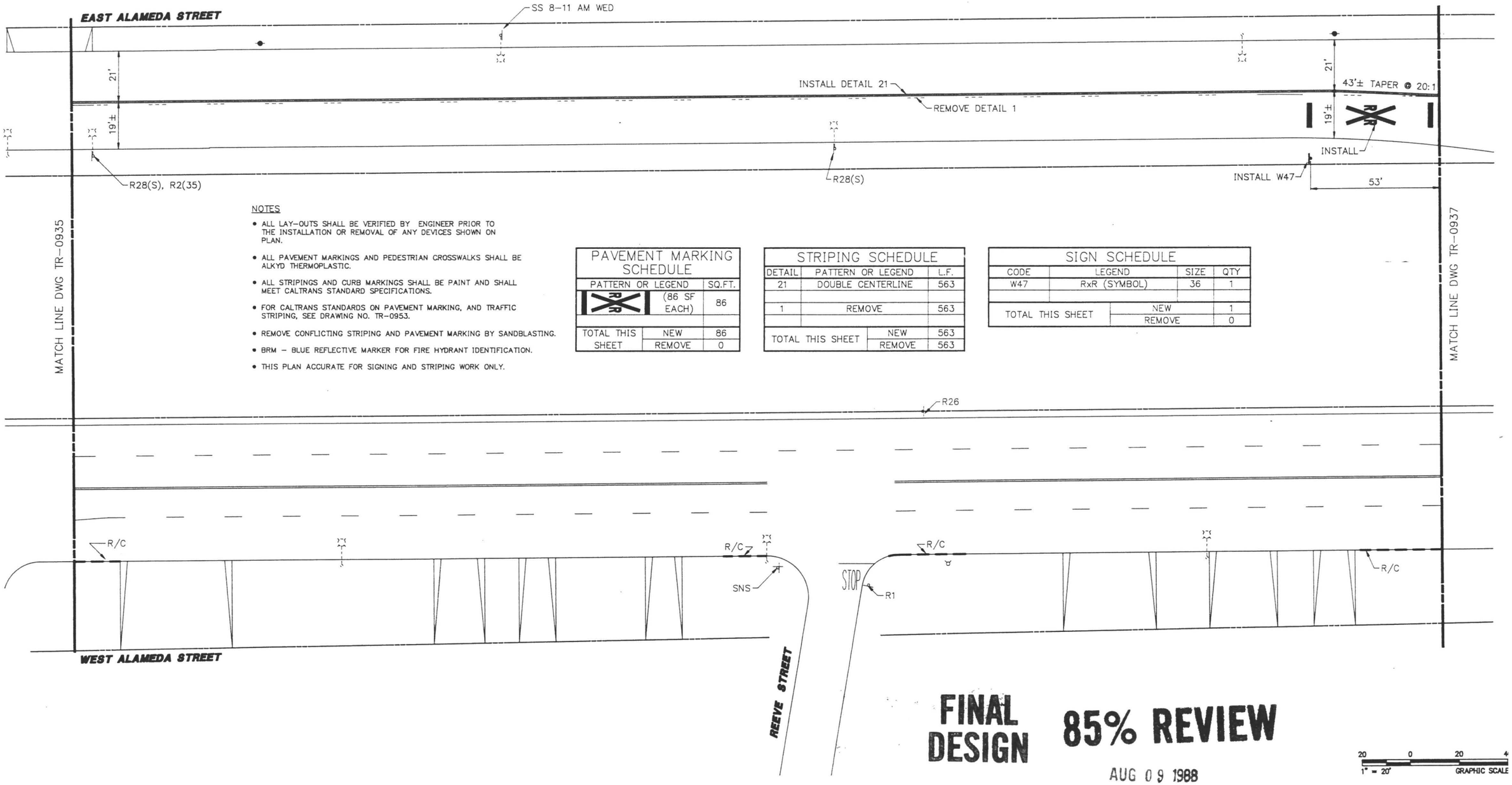
STOCKWELL TO DEL AMO BLVD.
ROADWAY SIGNING AND STRIPING
ALAMEDA STREET AT

CONTRACT NO. R01-T01-
DRAWING NO. TR-0935
REV.
SHEET NO. 15



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PAVEMENT MARKING SCHEDULE

PATTERN OR LEGEND		SQ.FT.
	(86 SF EACH)	86
TOTAL THIS SHEET	NEW	86
	REMOVE	0

STRIPING SCHEDULE

DETAIL	PATTERN OR LEGEND	L.F.
21	DOUBLE CENTERLINE	563
1	REMOVE	563
TOTAL THIS SHEET	NEW	563
	REMOVE	563

SIGN SCHEDULE

CODE	LEGEND	SIZE	QTY
W47	RxR (SYMBOL)	36	1
TOTAL THIS SHEET	NEW		1
	REMOVE		0

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20 0 20 4
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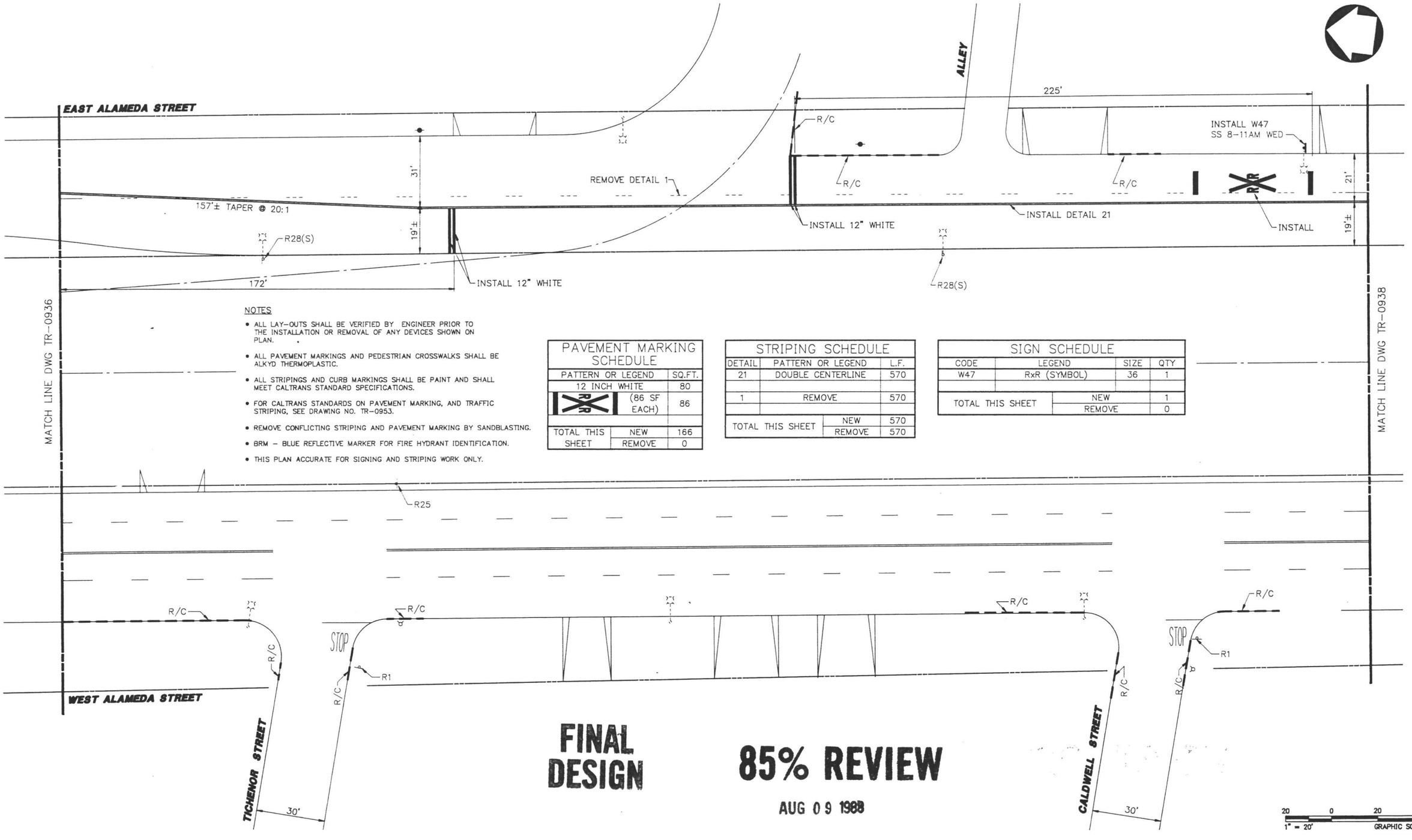
ROADWAY SIGNING AND STRIPING
ALAMEDA STREET AT REEVE STREET

CONTRACT NO. R01–T01–
DRAWING NO. TR–093(
REV.
SHEET NO. 1(



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PAVEMENT MARKING SCHEDULE

PATTERN OR LEGEND		SQ.FT.
12 INCH WHITE		80
RxR	(86 SF EACH)	86
TOTAL THIS SHEET	NEW	166
	REMOVE	0

STRIPING SCHEDULE

DETAIL	PATTERN OR LEGEND		L.F.
21	DOUBLE CENTERLINE		570
1	REMOVE		570
TOTAL THIS SHEET		NEW	570
		REMOVE	570

SIGN SCHEDULE

CODE	LEGEND	SIZE	QTY
W47	RxR (SYMBOL)	36	1
TOTAL THIS SHEET	NEW		1
	REMOVE		0

FINAL DESIGN

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ROADWAY SIGNING AND STRIPING
ALAMEDA STREET AT CALDWELL STREET

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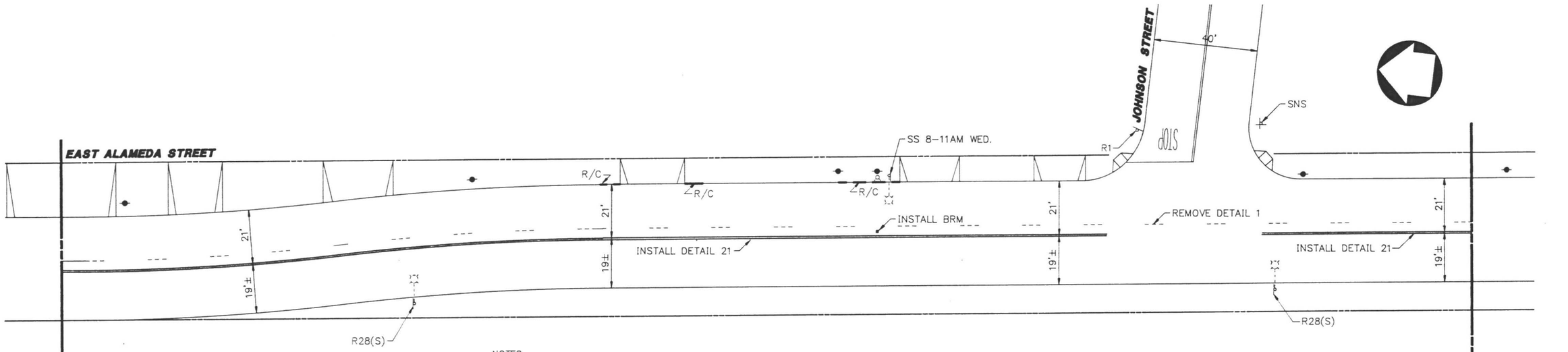
REV.
SHEET NO. 1



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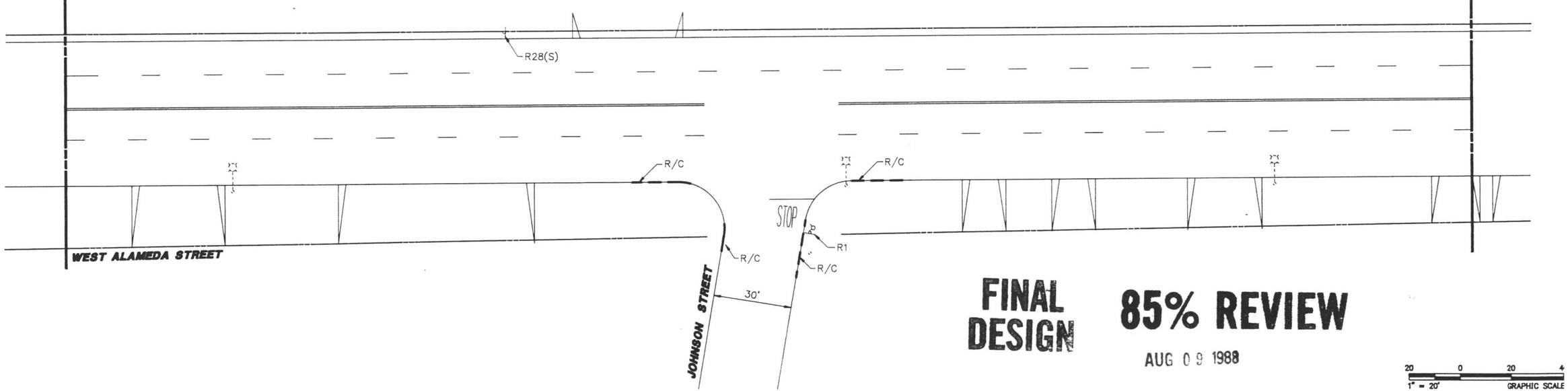
STRIPING SCHEDULE

DETAIL	PATTERN OR LEGEND		L.F.
21	DOUBLE CENTERLINE		486
1	REMOVE		546
TOTAL THIS SHEET		NEW	486
		REMOVE	546

BRM: BLUE REFLECTIVE MARKER 1 EA



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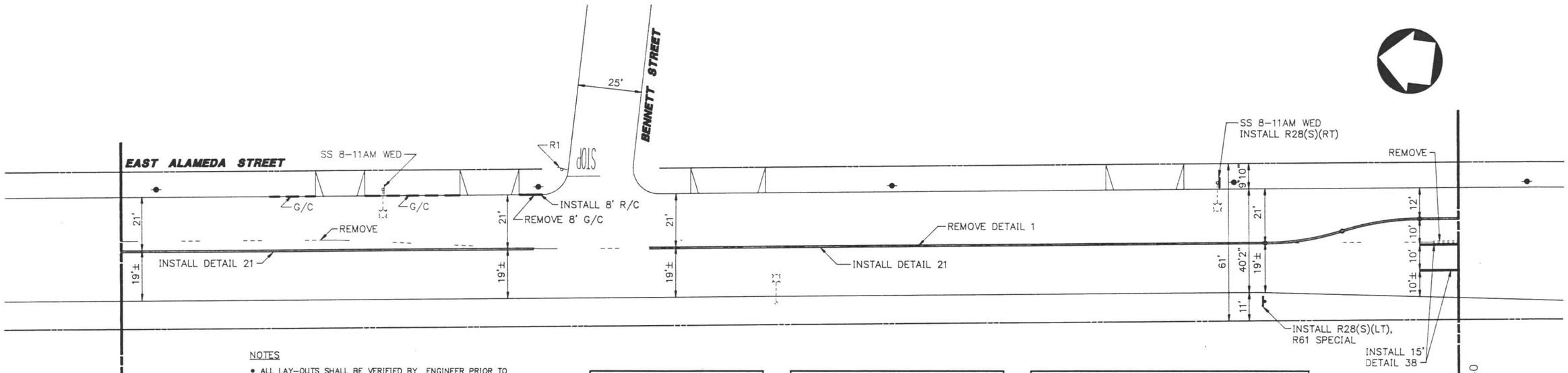
STOCKWELL TO DEL AMO BLVD.
ROADWAY SIGNING AND STRIPING
ALAMEDA STREET AT JOHNSON STREET

CONTRACT NO. R01-T01-
DRAWING NO. TR-093
REV.
SHEET NO. 12



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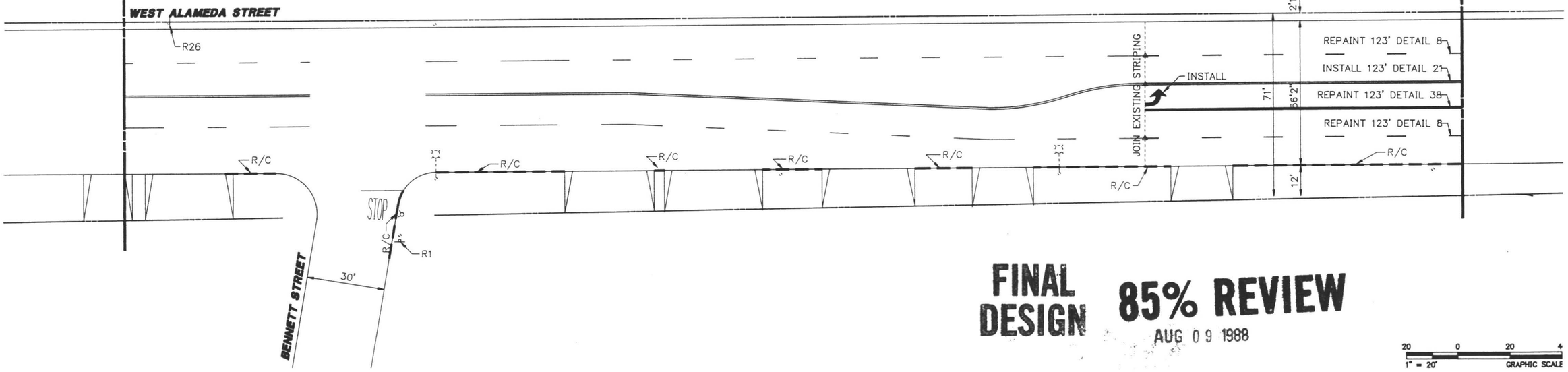
PAVEMENT MARKING SCHEDULE		
PATTERN OR LEGEND		SQ.FT.
RED CURB		8
(15 SF EACH)		15
REMOVE GREEN CURB		8
TOTAL THIS SHEET	NEW	23
	REMOVE	0

STRIPING SCHEDULE		
DETAIL	PATTERN OR LEGEND	L.F.
21	DOUBLE CENTERLINE	598
38	8" CHANNELIZATION LINE WITH RPM	153
8	LANE LINE WITH RPM	246
1	REMOVE	510
21	REMOVE	10
TOTAL THIS SHEET	NEW	997
	REMOVE	520

SIGN SCHEDULE			
CODE	LEGEND	SIZE	QTY
R28(S)(LT)	NO STOPPING ANY TIME	12x18	1
R28(S)(RT)	NO STOPPING ANY TIME	12x18	1
R61 SPECIAL	LANE–USE CONTROL	–	1
TOTAL THIS SHEET	NEW		3
	REMOVE		0



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STOCKWELL TO DEL AMO BLVD.
ROADWAY SIGNING AND STRIPING
ALAMEDA STREET AT BENNETT STREET

CONTRACT NO. R01–T01–
DRAWING NO. TR–093
REV.
SHEET NO. 11

PAVEMENT MARKING SCHEDULE		
PATTERN OR LEGEND		SQ.FT.
12 INCH WHITE		846
(15 SF EACH)		150
REMOVE 12 INCH WHITE		497
REMOVE R X R		140
REMOVE TYPE IV ARROW		30
TOTAL THIS SHEET	NEW	996
	REMOVE	667

SIGN SCHEDULE			
CODE	LEGEND	SIZE	QTY
R26(S)	NO STOPPING ANY TIME	12x18	2
R28(S)(LT)	NO STOPPING ANY TIME	12x18	2
TOTAL THIS SHEET	NEW		4
	REMOVE		0

STRIPING SCHEDULE		
DETAIL	PATTERN OR LEGEND	L.F.
8	LANELINE	354
10	LANELINE USE ALL RPM	70
21	DOUBLE CENTERLINE	834
38	8" CHANNELIZATION LINE WITH RPM	507
1	REMOVE	272
8	REMOVE	
21	REMOVE	176
28	REMOVE	43
38	REMOVE	
TOTAL THIS SHEET	NEW	1765
	REMOVE	491

BRM: BLUE REFLECTIVE MARKER 4 EA

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EAST ALAMEDA STREET

WEST ALAMEDA STREET

GREENLEAF BOULEVARD

MATCH LINE DWG TR-0939

MATCH LINE DWG TR-0941

EXISTING SAN PEDRO BRANCH

RELOCATED WILMINGTON BRANCH

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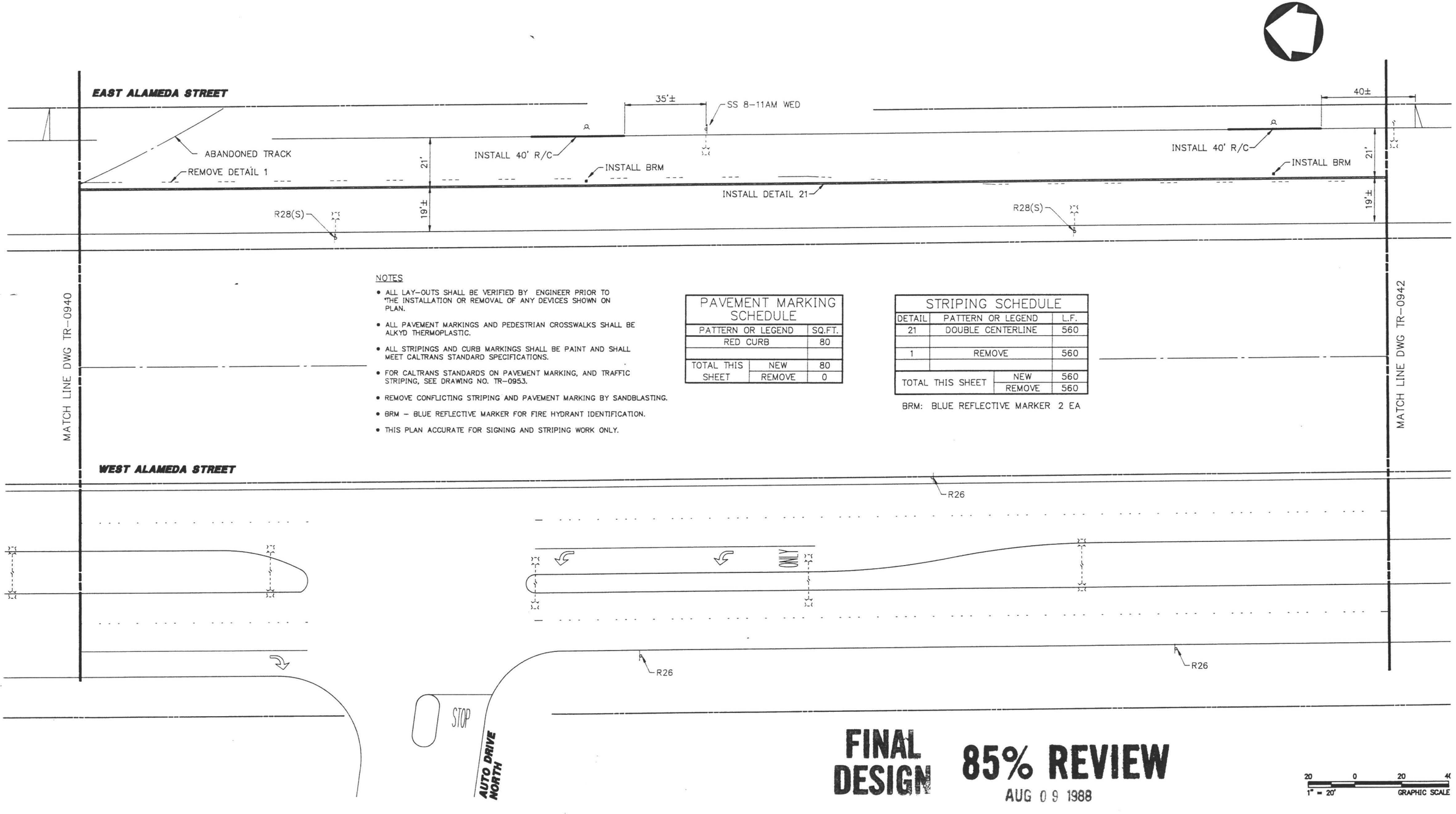
STOCKWELL TO DEL AMO BLVD.
ROADWAY SIGNING AND STRIPING
ALAMEDA STREET AT

CONTRACT NO. R01-T01-
DRAWING NO. TR-094(
REV.
SHEET NO. 15



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PAVEMENT MARKING SCHEDULE		
PATTERN OR LEGEND		SQ.FT.
RED CURB		80
TOTAL THIS SHEET	NEW	80
	REMOVE	0

STRIPING SCHEDULE		
DETAIL	PATTERN OR LEGEND	L.F.
21	DOUBLE CENTERLINE	560
1	REMOVE	560
TOTAL THIS SHEET	NEW	560
	REMOVE	560

BRM: BLUE REFLECTIVE MARKER 2 EA

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STOCKWELL TO DEL AMO BLVD.
ROADWAY SIGNING AND STRIPIING
ALAMEDA STREET AT AUTO DRIVE NORTH

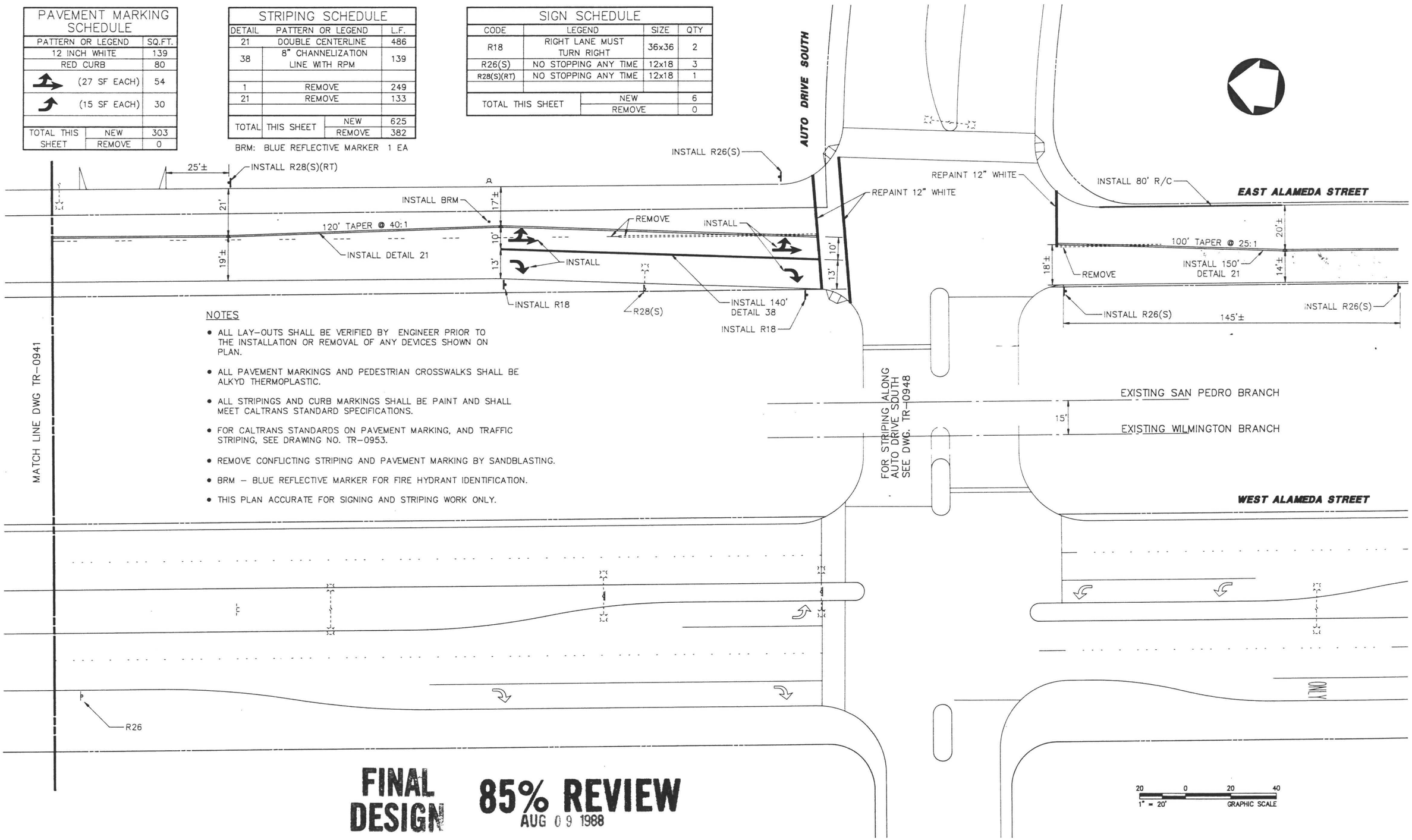
CONTRACT NO. R01-T01-
DRAWING NO. TR-094
REV.
SHEET NO. 16

PAVEMENT MARKING SCHEDULE		
PATTERN OR LEGEND		SQ.FT.
12 INCH WHITE		139
RED CURB		80
(27 SF EACH)		54
(15 SF EACH)		30
TOTAL THIS SHEET	NEW	303
	REMOVE	0

STRIPING SCHEDULE			
DETAIL	PATTERN OR LEGEND		L.F.
21	DOUBLE CENTERLINE		486
38	8" CHANNELIZATION LINE WITH RPM		139
1	REMOVE		249
21	REMOVE		133
TOTAL	THIS SHEET	NEW	625
		REMOVE	382

BRM: BLUE REFLECTIVE MARKER 1 EA

SIGN SCHEDULE			
CODE	LEGEND	SIZE	QTY
R18	RIGHT LANE MUST TURN RIGHT	36x36	2
R26(S)	NO STOPPING ANY TIME	12x18	3
R28(S)(RT)	NO STOPPING ANY TIME	12x18	1
TOTAL THIS SHEET	NEW		6
	REMOVE		0



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STOCKWELL TO DEL AMO BLVD.
ROADWAY SIGNING AND STRIPING
ALAMEDA STREET AT

CONTRACT NO. R01-T01-
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REV.
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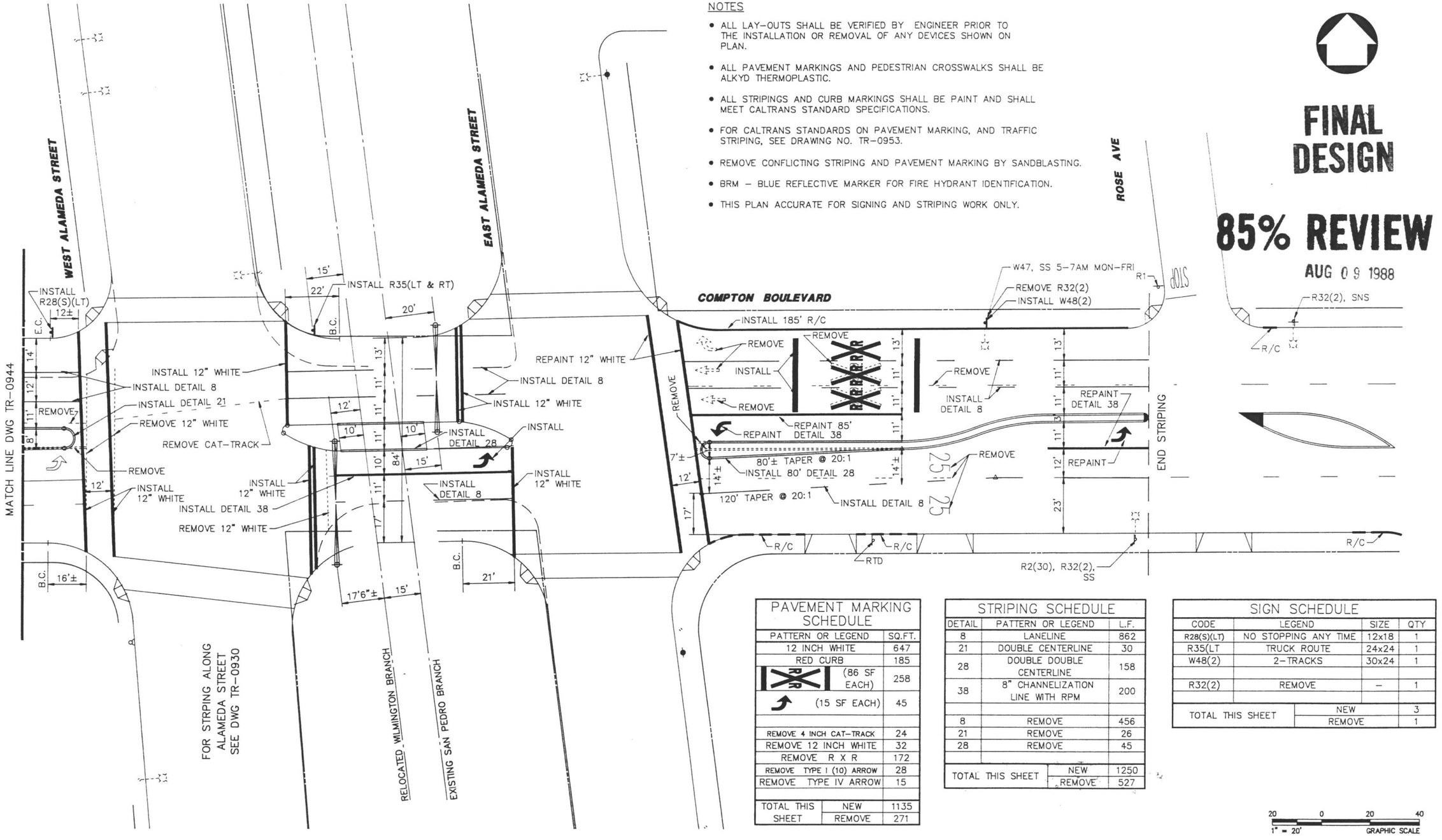

PAVEMENT MARKING SCHEDULE		
PATTERN OR LEGEND		SQ.FT.
12 INCH WHITE		647
RED CURB		185
R X R	(86 SF EACH)	258
	(15 SF EACH)	45
REMOVE 4 INCH CAT-TRACK		24
REMOVE 12 INCH WHITE		32
REMOVE R X R		172
REMOVE TYPE I (10) ARROW		28
REMOVE TYPE IV ARROW		15
TOTAL THIS SHEET	NEW	1135
	REMOVE	271

STRIPING SCHEDULE		
DETAIL	PATTERN OR LEGEND	L.F.
8	LANELINE	862
21	DOUBLE CENTERLINE	30
28	DOUBLE DOUBLE CENTERLINE	158
38	8" CHANNELIZATION LINE WITH RPM	200
8	REMOVE	456
21	REMOVE	26
28	REMOVE	45
TOTAL THIS SHEET	NEW	1250
	REMOVE	527

SIGN SCHEDULE			
CODE	LEGEND	SIZE	QTY
R28(S)(LT)	NO STOPPING ANY TIME	12x18	1
R35(LT	TRUCK ROUTE	24x24	1
W48(2)	2-TRACKS	30x24	1
R32(2)	REMOVE	-	1
TOTAL THIS SHEET	NEW		3
	REMOVE		1

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STOCKWELL TO DEL AMO BLVD.
ROADWAY SIGNING AND STRIPING
COMPTON BOULEVARD CROSSING

CONTRACT NO. R01-T01-
DRAWING NO. TR-094
REV.
SHEET NO.

PAVEMENT MARKING SCHEDULE		
PATTERN OR LEGEND		SQ.FT.
RED CURB		50
12 INCH WHITE		347
RxR	(86 SF EACH)	172
XING	(39 SF EACH)	78
	(15 SF EACH)	30
TOTAL THIS SHEET	NEW	677
	REMOVE	0

STRIPING SCHEDULE			
DETAIL	PATTERN OR LEGEND		L.F.
8	LANELINE		424
21	DOUBLE CENTERLINE		176
38	8" CHANNELIZATION LINE WITH RPM		147
8	REMOVE		176
21	REMOVE		176
TOTAL THIS SHEET		NEW	747
		REMOVE	352

SIGN SCHEDULE			
CODE	LEGEND	SIZE	QTY
R18	RIGHT LANE MUST TURN RIGHT	36x36	2
R28(S)(RT)	NO STOPPING ANY TIME	12x18	1
R32A	30-MINUTE PARKING	12x18	2
W47	RxR (SYMBOL)	36	1
W48(2)	2-TRACKS	30x24	1
W54	PED XING (SYMBOL)	30	1
TOTAL THIS SHEET		NEW	8
		REMOVE	0

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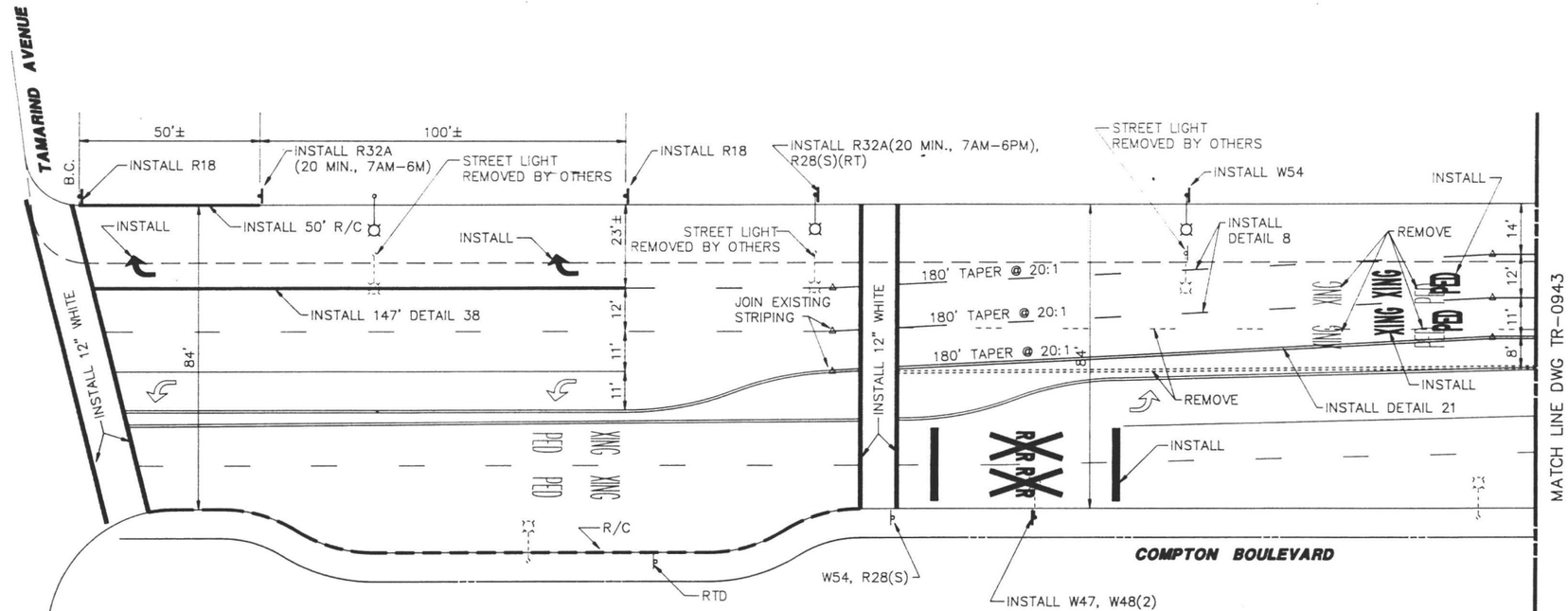

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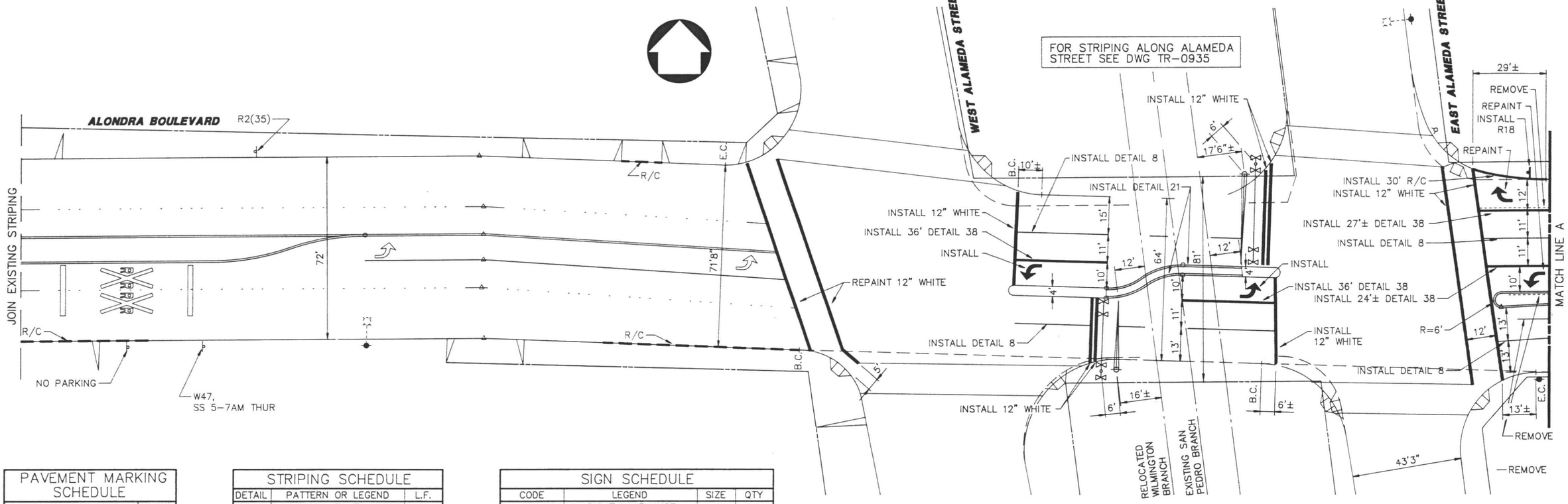

PAVEMENT MARKING SCHEDULE		
PATTERN OR LEGEND		SQ.FT.
RED CURB		30
12 INCH WHITE		282
	(86 SF EACH)	172
	(15 SF EACH)	75
TOTAL THIS SHEET	NEW	559
	REMOVE	0

STRIPING SCHEDULE		
DETAIL	PATTERN OR LEGEND	L.F.
8	LANELINE	611
21	DOUBLE CENTERLINE	111
28	DOUBLE DOUBLE CENTERLINE	216
38	8" CHANNELIZATION LINE WITH RPM	451
38	REMOVE	132
TOTAL THIS SHEET	NEW	1389
	REMOVE	132

BRM: BLUE REFLECTIVE MARKER 1 EA

SIGN SCHEDULE			
CODE	LEGEND	SIZE	QTY
R18	RIGHT LANE MUST TURN RIGHT	36x36	1
TOTAL THIS SHEET	NEW		1
	REMOVE		.0

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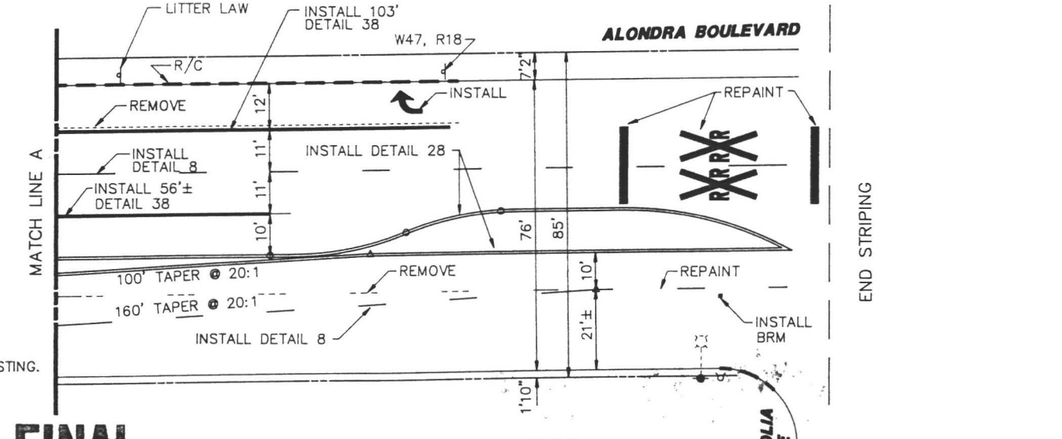

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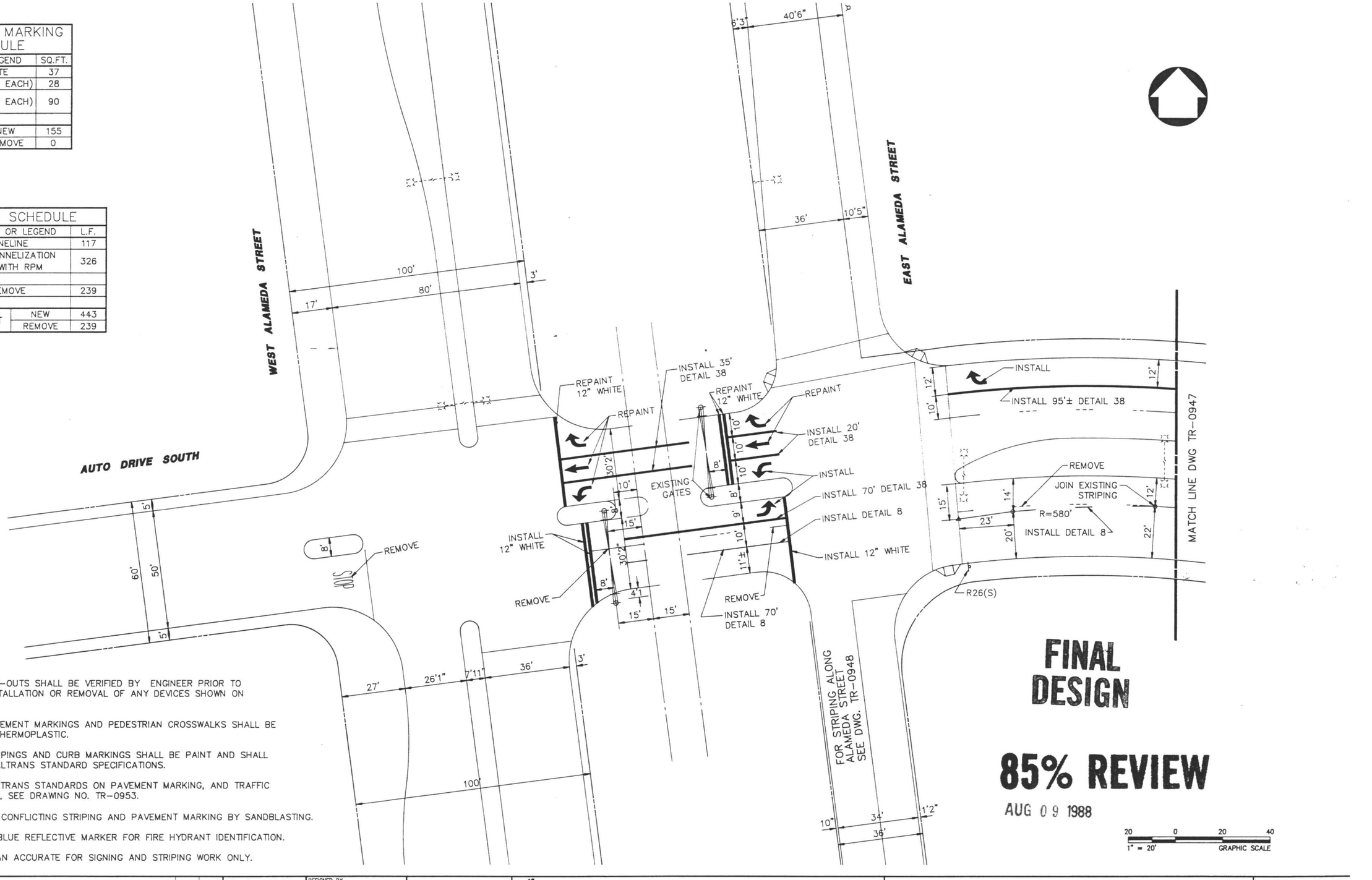
STOCKWELL TO DEL AMO BLVD.
ROADWAY SIGNING AND STRIPING
ALONDRA BOULEVARD AT

CONTRACT NO. R01-T01-
DRAWING NO. TR-094
REV.
SHEET NO. 16

PAVEMENT MARKING SCHEDULE		
PATTERN OR LEGEND		SQ.FT.
12 INCH WHITE		37
→ (14 SF EACH)		28
↱ (15 SF EACH)		90
TOTAL THIS SHEET	NEW	155
	REMOVE	0

STRIPING SCHEDULE		
DETAIL	PATTERN OR LEGEND	L.F.
8	LANELINE	117
38	8" CHANNELIZATION LINE WITH RPM	326
1	REMOVE	239
TOTAL THIS SHEET	NEW	443
	REMOVE	239



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AUTO DRIVE SOUTH AT

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DRAWING NO. TR-094(
REV.
SHEET NO. 16

PAVEMENT MARKING SCHEDULE		
PATTERN OR LEGEND		SQ.FT.
	(86 SF EACH)	172
	(15 SF EACH)	75
REMOVE TYPE IV ARROW		15
TOTAL THIS SHEET	NEW	247
	REMOVE	15

STRIPING SCHEDULE		
DETAIL	PATTERN OR LEGEND	L.F.
38	8" CHANNELIZATION LINE WITH RPM	155
TOTAL THIS SHEET	NEW	155
	REMOVE	0

SIGN SCHEDULE			
CODE	LEGEND	SIZE	QTY
R18	RIGHT LANE MUST TURN RIGHT	36x36	2
R18(R)	RIGHT LANE MUST TURN RIGHT	36x36	1
R1	REMOVE	–	1
TOTAL THIS SHEET	NEW		3
	REMOVE		1

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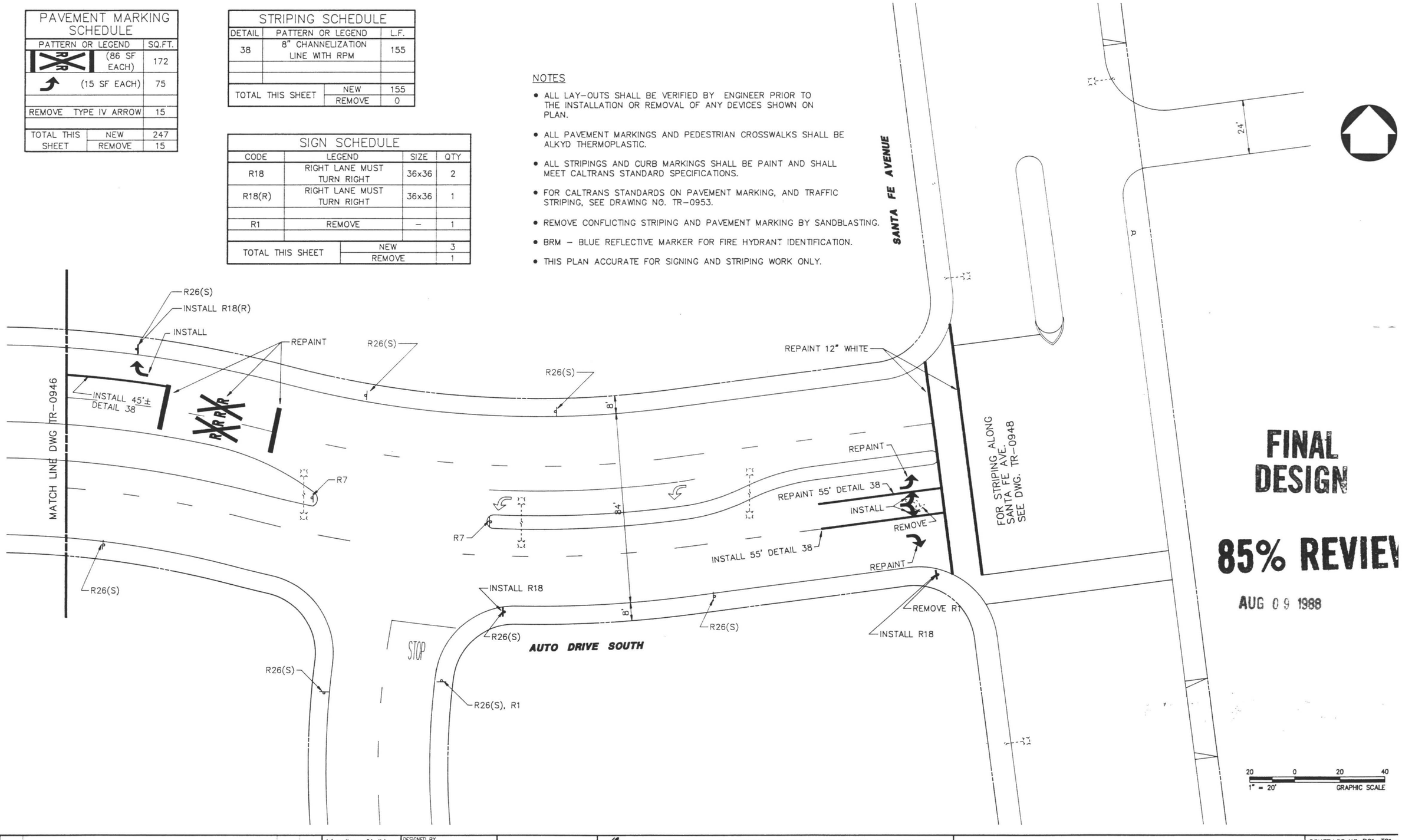

FINAL DESIGN

85% REVIEW

AUG 09 1988

20 0 20 40
1" = 20' GRAPHIC SCALE

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STOCKWELL TO DEL AMO BLVD.
ROADWAY SIGNING AND STRIPING
AUTO DRIVE SOUTH AT

CONTRACT NO. R01-T01-
DRAWING NO. TR-0947
REV.
SHEET NO. 16

PAVEMENT MARKING SCHEDULE		
PATTERN OR LEGEND		SQ.FT.
RED CURB		47
12 INCH WHITE		205
↱ (15 SF EACH)		30
REMOVE TYPE IV ARROW		30
TOTAL THIS SHEET	NEW	282
	REMOVE	30

STRIPING SCHEDULE		
DETAIL	PATTERN OR LEGEND	L.F.
21	DOUBLE CENTERLINE	304
38	8" CHANNELIZATION LINE WITH RPM	162
32	REMOVE	23
38	REMOVE	98
TOTAL THIS SHEET	NEW	466
	REMOVE	121

BRM: BLUE REFLECTIVE MARKER 1 EA

NOTES

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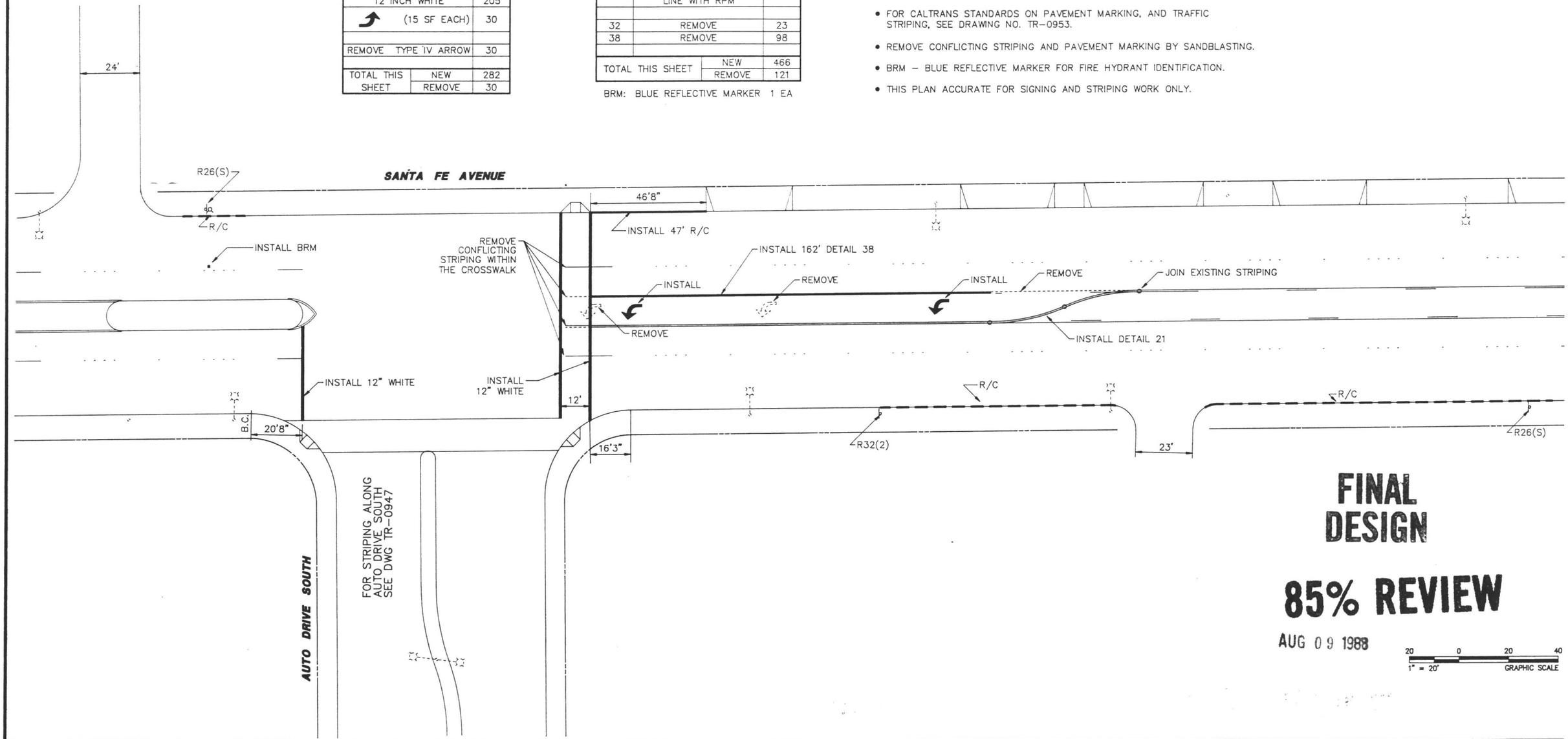

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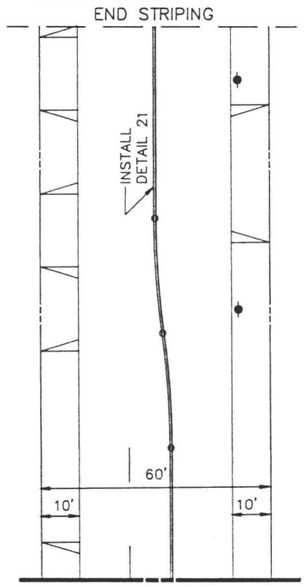
STOCKWELL TO DEL AMO BLVD.
ROADWAY SIGNING AND STRIPING
SANTA FE AVENUE AT

CONTRACT NO. R01-T01-
DRAWING NO. TR-0948
REV.
SHEET NO. 16



SIGN SCHEDULE			
CODE	LEGEND	SIZE	QTY
R1	STOP	30	1
R26(S)	NO STOPPING ANY TIME	12x18	5
R28(S)(LT)	NO STOPPING ANY TIME	12x18	1
R41	RIGHT TURN ONLY	30x36	1
R1	REMOVE	–	2
R90	REMOVE	–	1
TOTAL THIS SHEET	NEW		8
	REMOVE		3

STRIPING SCHEDULE		
DETAIL	PATTERN OR LEGEND	L.F.
8	LANELINE	890
21	DOUBLE CENTERLINE	965
38	8" CHANNELIZATION LINE WITH RPM	547
1	REMOVE	170
8	REMOVE	
21	REMOVE	154
38	REMOVE	40
TOTAL THIS SHEET	NEW	2402
	REMOVE	364

BRM: BLUE REFLECTIVE MARKER 1 EA

PAVEMENT MARKING SCHEDULE	
PATTERN OR LEGEND	SQ.FT.
RED CURB	66
12 INCH YELLOW	412
4 INCH CAT–TRACK	22
12 INCH WHITE	229
→ (14 SF EACH)	14
⇉ (27 SF EACH)	81
↱ (15 SF EACH)	180
REMOVE 12 INCH WHITE	94
REMOVE 12 INCH YELLOW	303
REMOVE TYPE IV ARROW	15
REMOVE WAIT HERE	45
REMOVE STOP	44
TOTAL THIS SHEET NEW	1004
TOTAL THIS SHEET REMOVE	501

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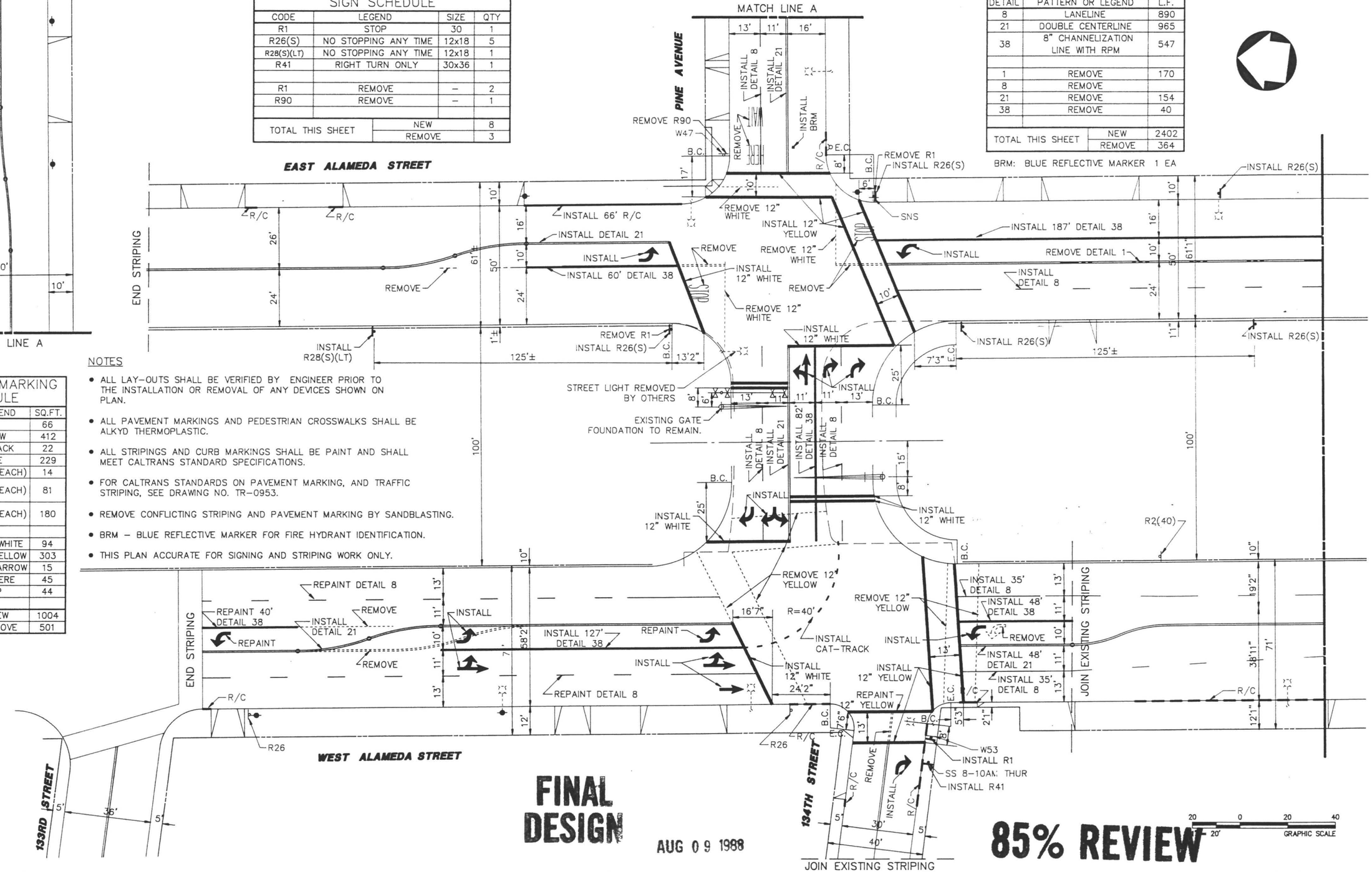

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STOCKWELL TO DEL AMO BLVD.
ROADWAY SIGNING AND STRIPING
ALAMEDA STREET AT

CONTRACT NO. R01–T01–
DRAWING NO. TR–094
REV.
SHEET NO. 1

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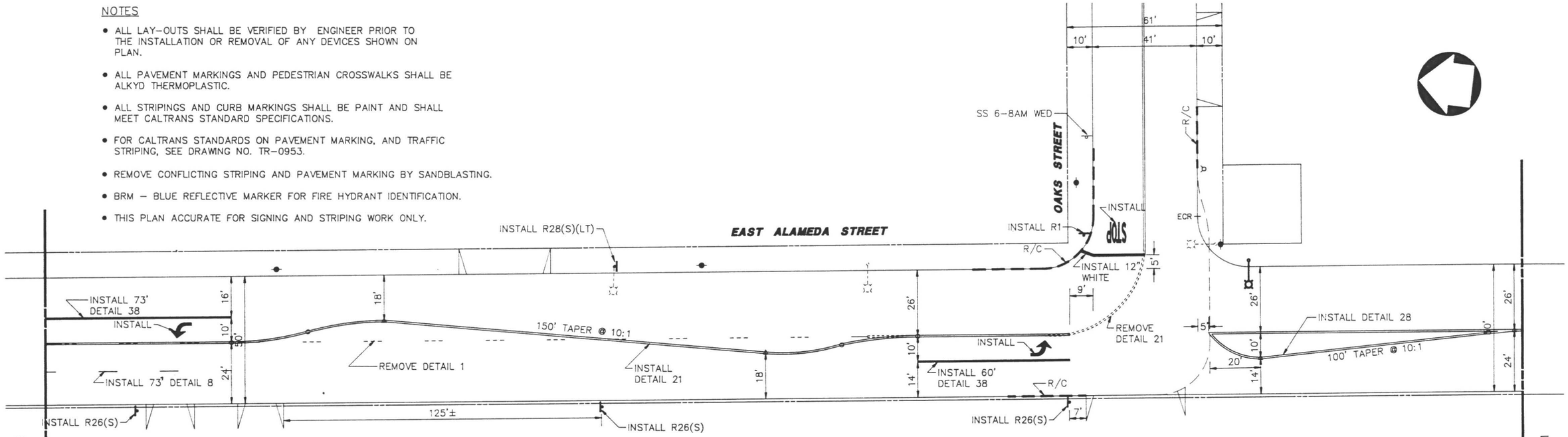

MATCH LINE DWG. TR-0949

MATCH LINE DWG. TR-0951

PAVEMENT MARKING SCHEDULE		
PATTERN OR LEGEND		SQ.FT.
12 INCH WHITE		25
(15 SF EACH)		30
STOP (22 SF EACH)		22
TOTAL THIS SHEET	NEW	77
	REMOVE	0

STRIPING SCHEDULE		
DETAIL	PATTERN OR LEGEND	L.F.
8	LANELINE	73
21	DOUBLE CENTERLINE	405
28	DOUBLE DOUBLE CENTERLINE	119
38	8" CHANNELIZATION LINE WITH RPM	133
1	REMOVE	323
21	REMOVE	79
TOTAL THIS SHEET	NEW	730
	REMOVE	402

SIGN SCHEDULE			
CODE	LEGEND	SIZE	QTY
R1	STOP	30	1
R26(S)	NO STOPPING ANY TIME	12x18	3
R28(S)(LT)	NO STOPPING ANY TIME	12x18	1
TOTAL THIS SHEET	NEW		5
	REMOVE		0

FINAL DESIGN

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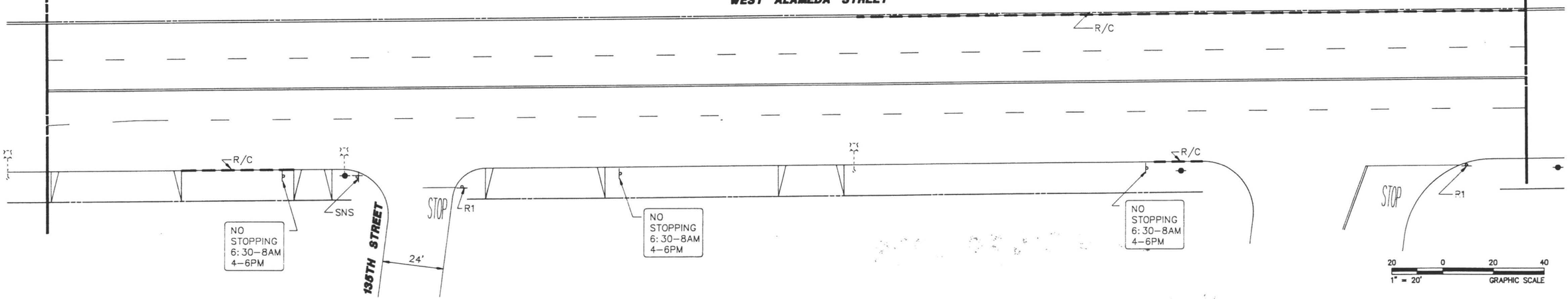

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STOCKWELL TO DEL AMO BLVD.
ROADWAY SIGNING AND STRIPING
ALAMEDA STREET AT

CONTRACT NO. R01-T01-
DRAWING NO. TR-095(
REV.
SHEET NO. 16

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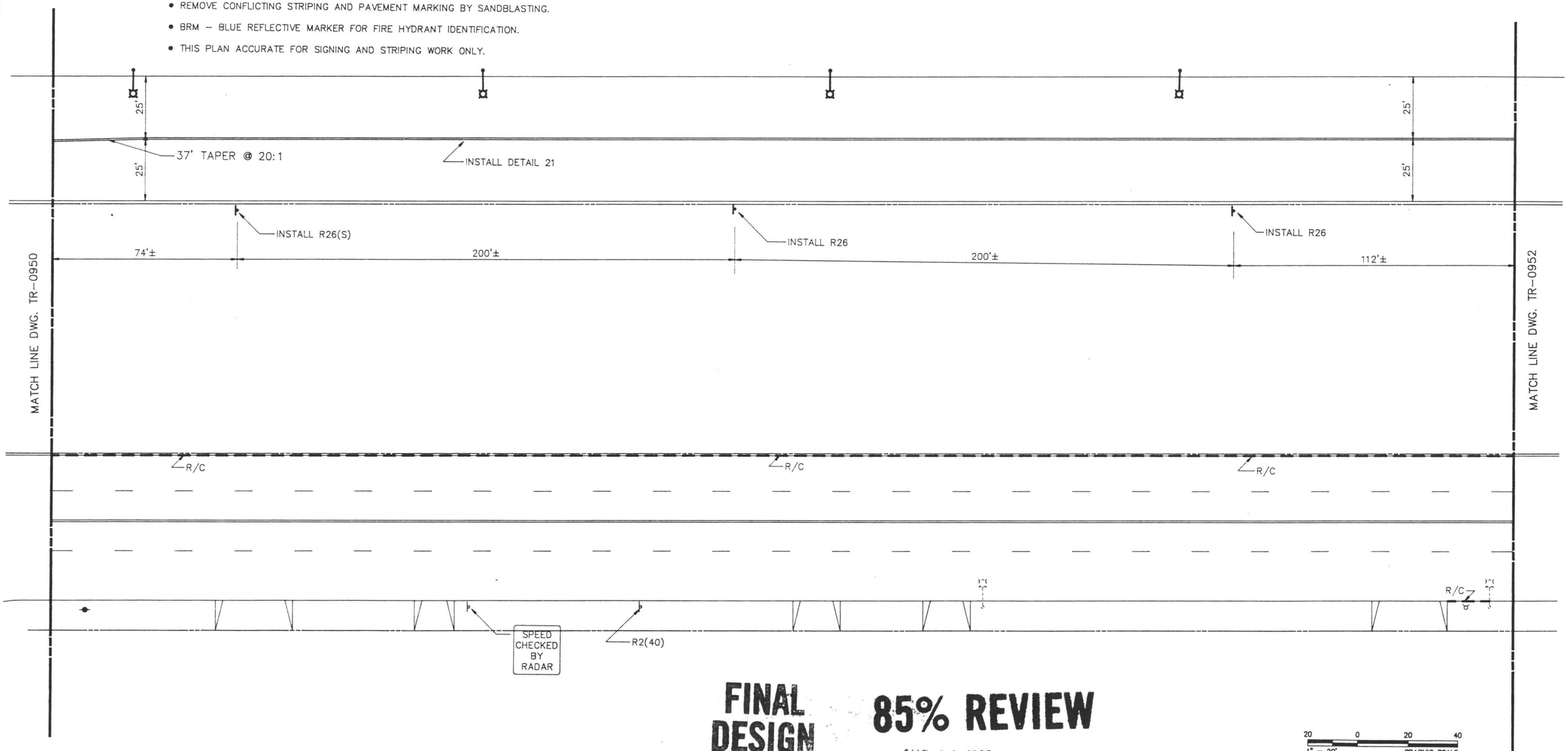
STRIPING SCHEDULE		
DETAIL	PATTERN OR LEGEND	L.F.
21	DOUBLE CENTERLINE	586
TOTAL THIS SHEET	NEW	586
	REMOVE	0

SIGN SCHEDULE			
CODE	LEGEND	SIZE	QTY
R26	NO PARKING ANY TIME	12x18	2
R26(S)	NO STOPPING ANY TIME	12x18	1
TOTAL THIS SHEET	NEW		3
	REMOVE		0



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ROADWAY SIGNING AND STRIPING
ALAMEDA STREET AT

CONTRACT NO. R01-T01-
DRAWING NO. TR-095
REV.
SHEET NO. 17

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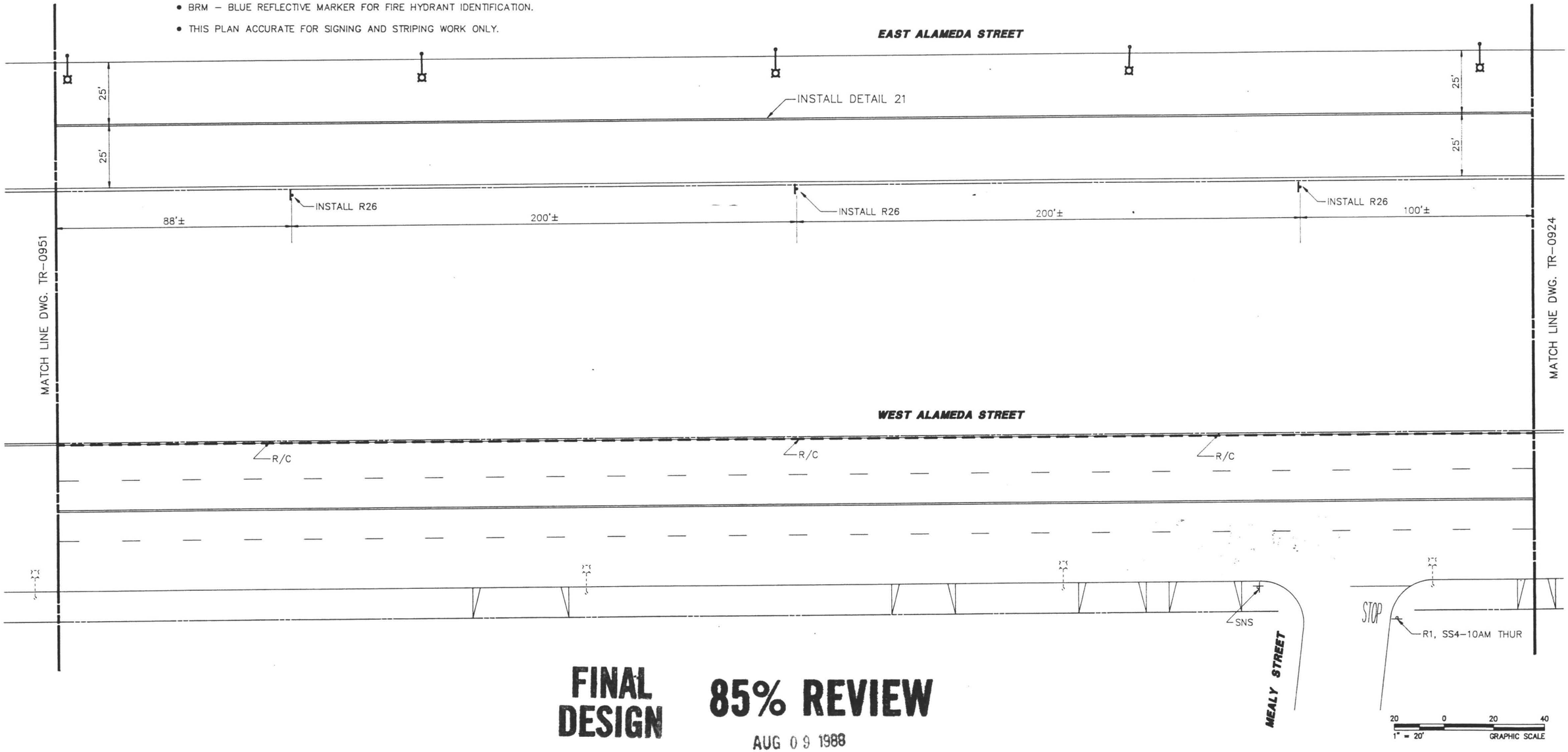
STRIPING SCHEDULE			
DETAIL	PATTERN OR LEGEND		L.F.
21	DOUBLE CENTERLINE		586
TOTAL THIS SHEET		NEW	586
		REMOVE	0

SIGN SCHEDULE			
CODE	LEGEND	SIZE	QTY
R26	NO PARKING ANY TIME	12x18	3
TOTAL THIS SHEET	NEW		3
	REMOVE		0



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DRAWING NO. TR-095
REV.
SHEET NO. 17

CENTERLINES (2 LANE HIGHWAYS)

DETAIL 1



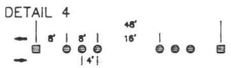
DETAIL 2



DETAIL 3



DETAIL 4



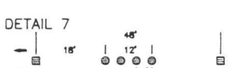
DETAIL 5



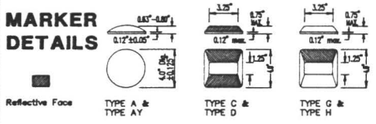
DETAIL 6



DETAIL 7

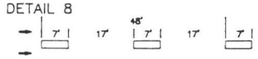


MARKER DETAILS

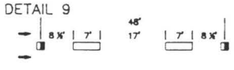


LANELINES (MULTILANE HIGHWAYS)

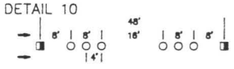
DETAIL 8



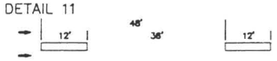
DETAIL 9



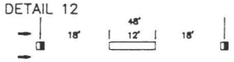
DETAIL 10



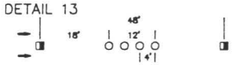
DETAIL 11



DETAIL 12



DETAIL 13



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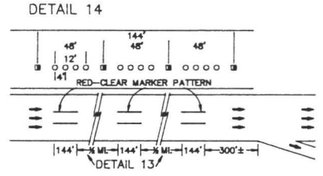


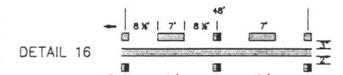
DETAIL 13

NO PASSING ZONES - ONE DIRECTION

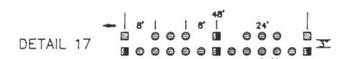
DETAIL 15



DETAIL 16



DETAIL 17



DETAIL 18



DETAIL 19



DETAIL 20

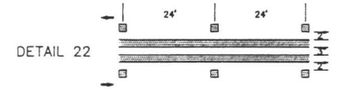


NO PASSING ZONES - TWO DIRECTION

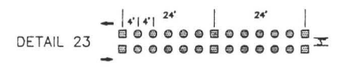
DETAIL 21



DETAIL 22

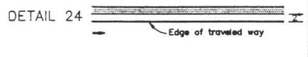


DETAIL 23

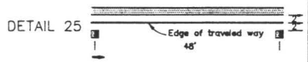


LEFT EDGELINES (Divided Highways)

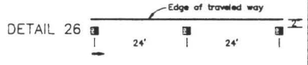
DETAIL 24



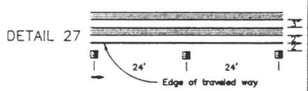
DETAIL 25



DETAIL 26



DETAIL 27

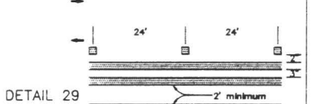


MEDIAN ISLANDS

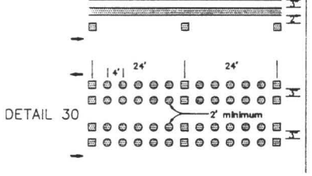
DETAIL 28



DETAIL 29

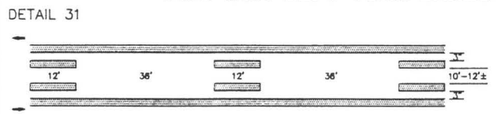


DETAIL 30

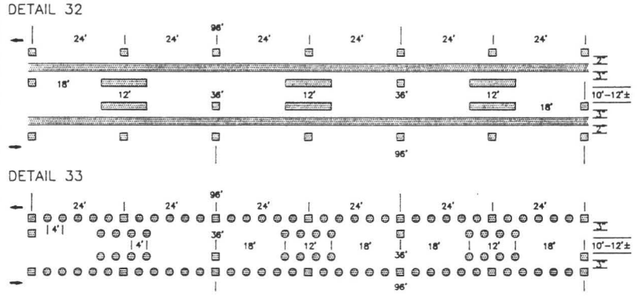


TWO-WAY LEFT TURN LANES

DETAIL 31



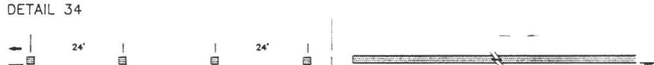
DETAIL 32



DETAIL 33

INTERSECTION TREATMENTS

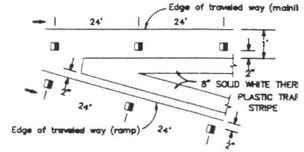
DETAIL 34



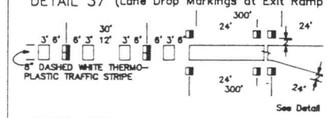
DETAIL 35

MISCELLANEOUS MARKIN(

DETAIL 36 (Exit Ramp Treatment)



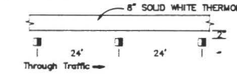
DETAIL 37 (Lane Drop Markings at Exit Ramp



DETAIL 37A



DETAIL 38 (Channelizing Line)



CROSSWALK AND LIMIT LINE

CROSSWALK

BUS LANE

FINAL DESIGN

BEGINNING AND ENDING DETAIL FOR LANE LINES

TYPICAL LOCATIONS FOR FIRE HYDRANT MARKERS

TYPICAL REVERSE CURVE TRANSITION

LEGEND

MARKERS

- TYPE A White Non-Reflective
- TYPE AY Yellow Non-Reflective
- TYPE C Red-Clear Reflective
- TYPE D Two-Way Yellow Refl
- TYPE G One-Way Clear Refle
- TYPE H One-Way Yellow Refl

LINES

- 4" White
- 4" Yellow
- Direction of Travel
- No Scale

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AUG 09 1988

NOTES:

1. ALL LETTERS AND NUMERALS SHOULD BE IN CONFORMANCE WITH THE CALTRANS STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS. LARGE LETTERS AND NUMERALS SHOULD BE USED, 8 FEET OR MORE IN HEIGHT.
2. THE SPACE BETWEEN LINES SHOULD BE AT LEAST FOUR TIMES THE HEIGHT OF THE CHARACTERS FOR LOW SPEED ROADS BUT NOT MORE THAN TEN TIMES THE EHIGHT OF THE CHARACTERS. THE SPACE BETWEEN LINES MAY BE REDUCED APPROPRIATELY WHERE THERE IS LIMITED SPACE BECAUSE OF LOCAL CONDITIONS.
3. PAVEMENT MESSAGES SHOULD GENERALLY BE NO MORE THAN ONE LANE IN WIDTH.

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DRAWN BY
CHECKED BY
APPROVED BY

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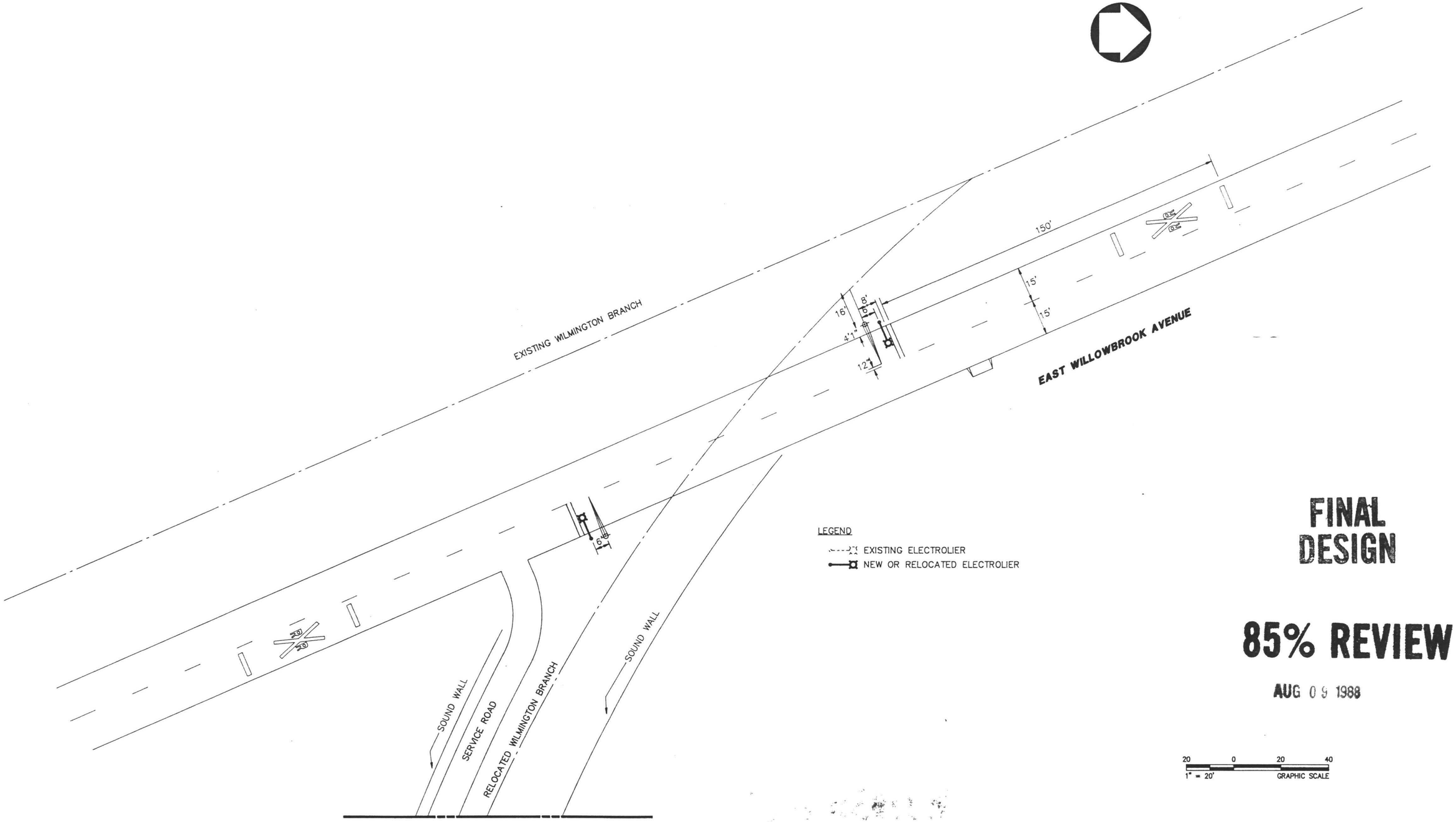
TRANSCAL Transit Consultants of Southern California
A Joint [illegible] Parsons Brinckerhoff Quade & Douglas Inc.–

STOCKWELL TO DEL AMO BLVD.
PAVEMENT MARKINGS AND TRAFFIC STRIPING
TYPICAL DETAILS

CONTRACT NO. R01-T01-
DRAWING NO. TR-095.
REV.
SHEET NO. 17



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DRAWN BY Gail Ellen Head
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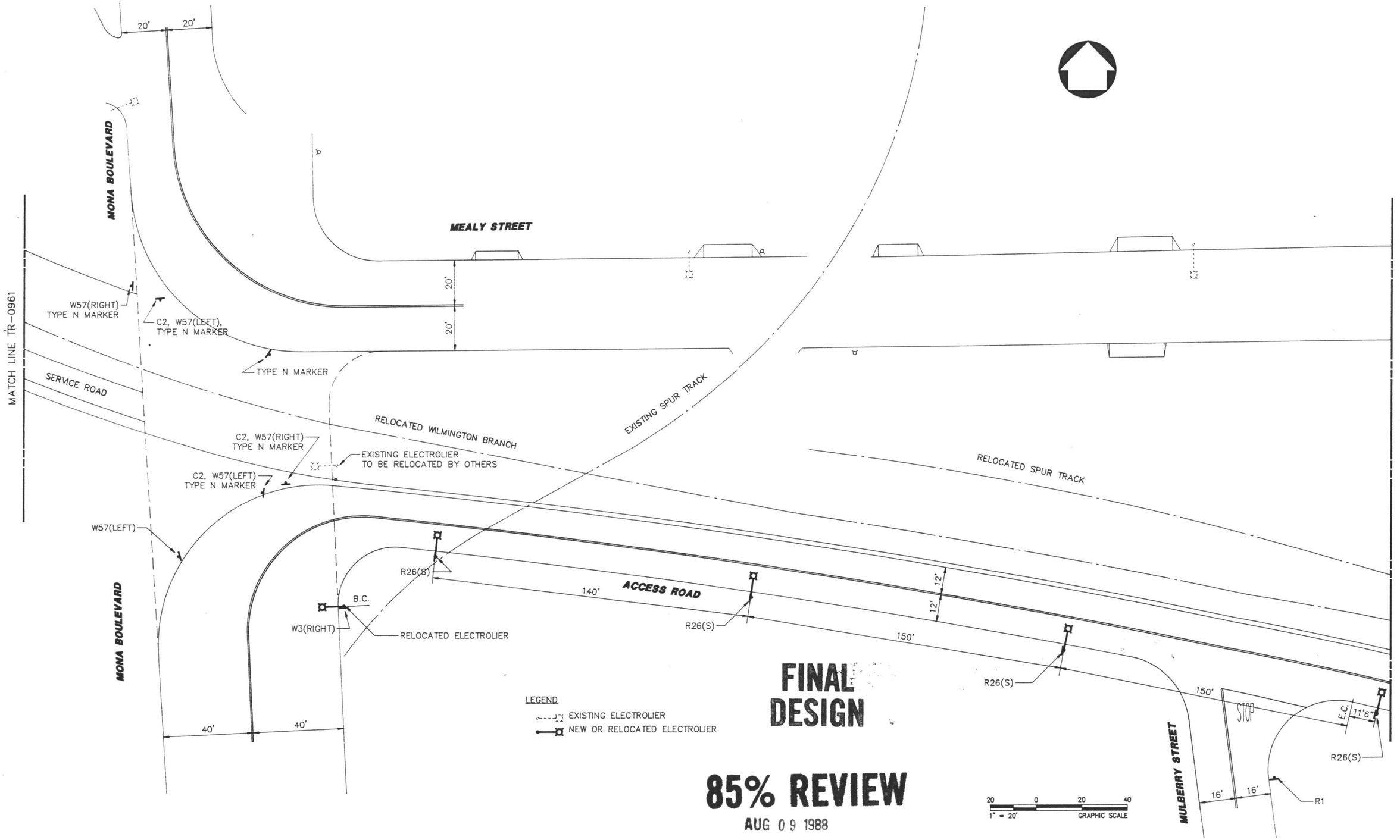
STOCKWELL TO DEL AMO BLVD.
ROADWAY LIGHTING MODIFICATION
EAST WILLOWBROOK AVENUE AT

CONTRACT NO. R01–T01–
DRAWING NO. TR–096
REV.
SHEET NO. 17



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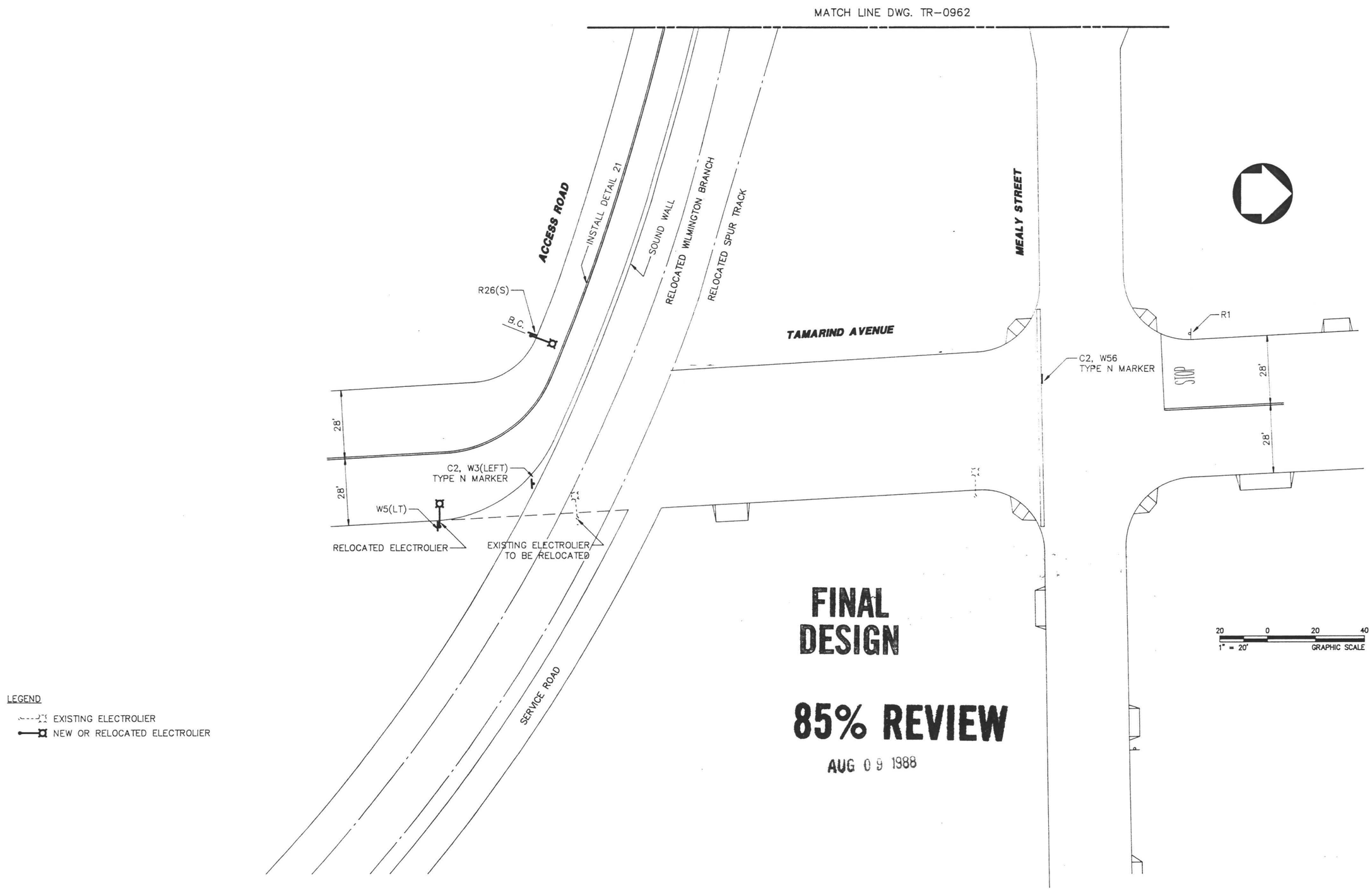
STOCKWELL TO DEL AMO BLVD.
ROADWAY LIGHTING MODIICATION
MONA BOULEVARD AT

CONTRACT NO. R01–T01–
DRAWING NO. TR–096
REV.
SHEET NO. 17



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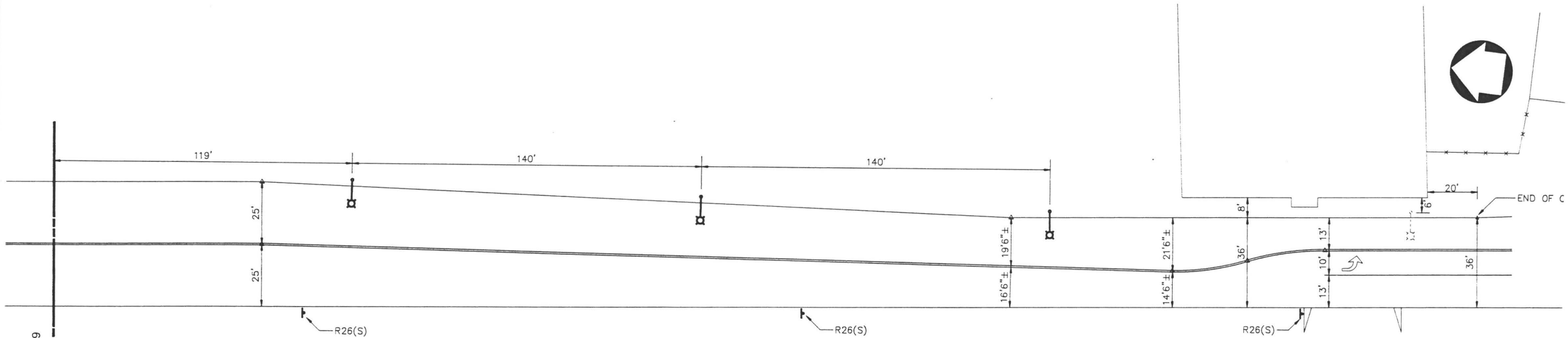
STOCKWELL TO DEL AMO BLVD.
ROADWAY LIGHTING MODIFICATION
TAMARIND AVENUE AT

CONTRACT NO. R01-T01-
DRAWING NO. TR-096
REV.
SHEET NO. 17



MATCH LINE DWG. TR-0969

EAST ALAMEDA STREET

FINAL DESIGN

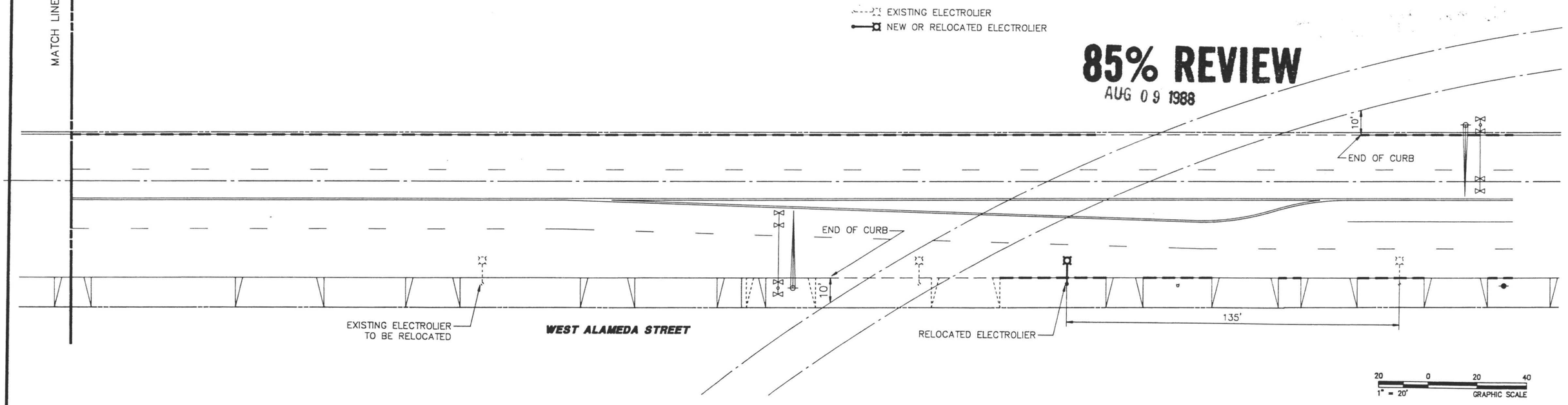
LEGEND

EXISTING ELECTROLIER

NEW OR RELOCATED ELECTROLIER

85% REVIEW

AUG 09 1988



20 0 20 40

1" = 20' GRAPHIC SCALE

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STOCKWELL TO DEL AMO BLVD.

ROADWAY LIGHTING MODIFICATION

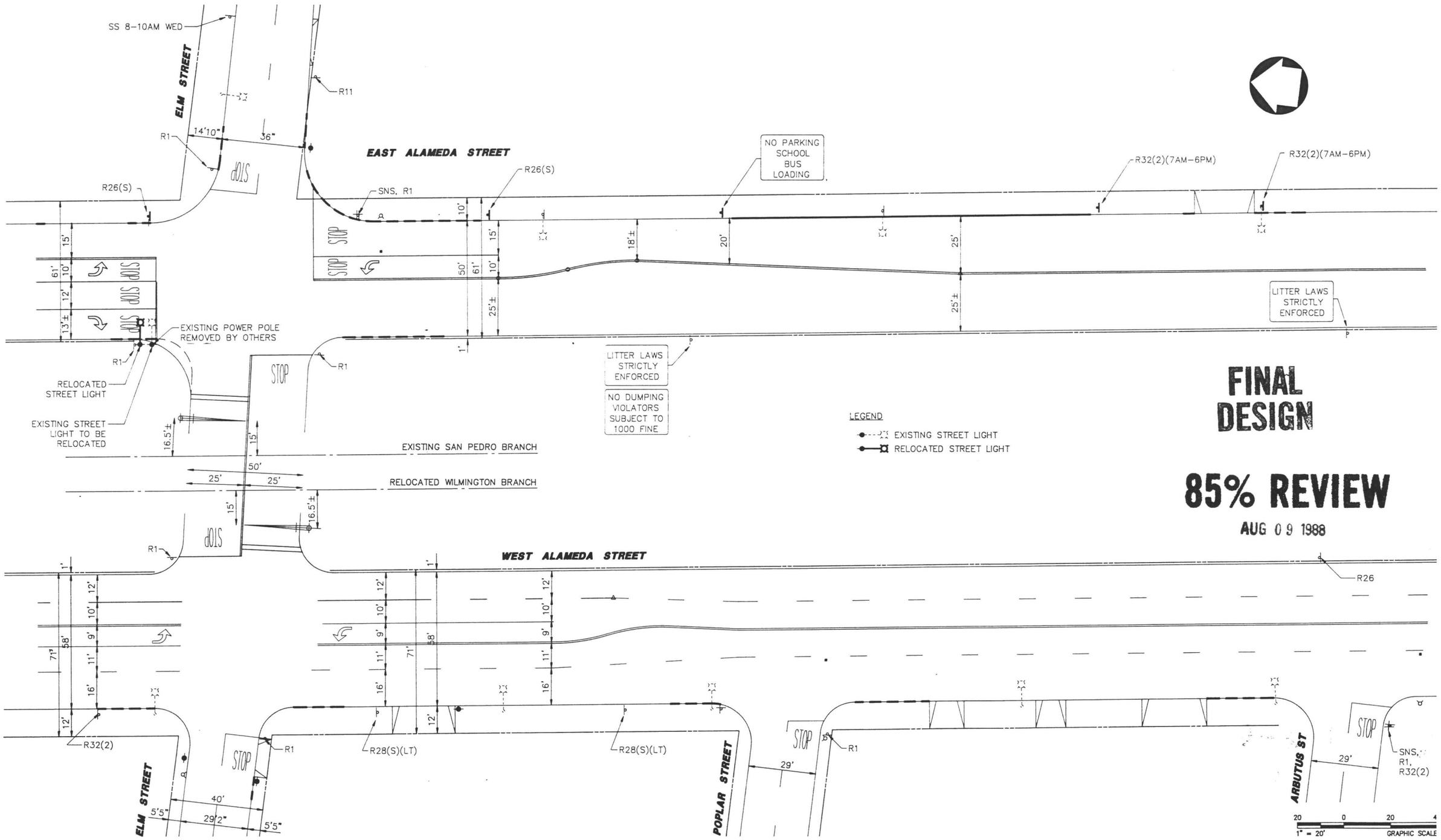
ALAMEDA STREET

CONTRACT NO. R01-T01-

DRAWING NO. TR-096-

REV.

SHEET NO. 17



LEGEND

EXISTING STREET LIGHT

RELOCATED STREET LIGHT

FINAL DESIGN

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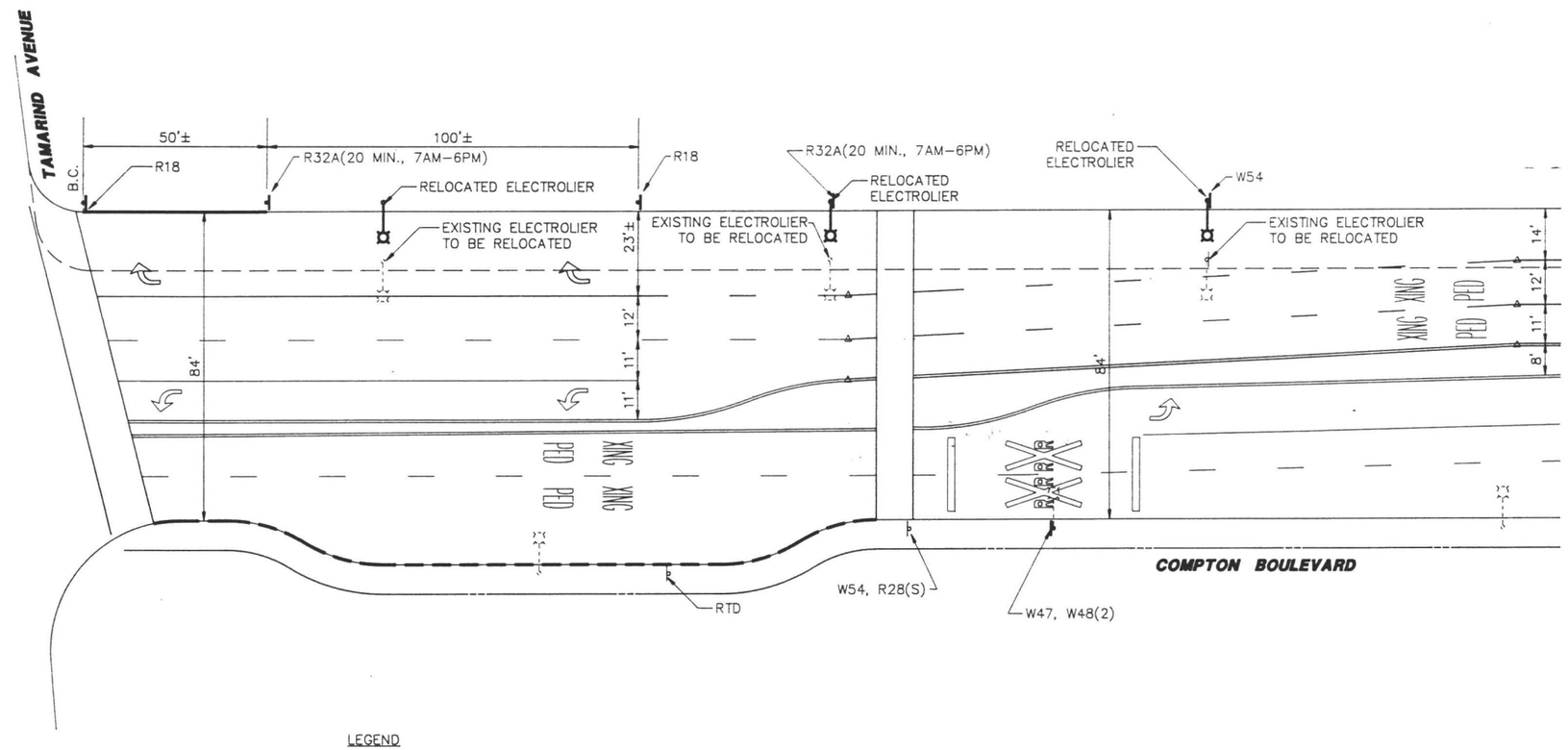
STOCKWELL TO DEL AMO BLVD.
ROADWAY LIGHTING MODIFICATION
ALAMEDA STREET AT

CONTRACT NO. R01–T01–

DRAWING NO. TR–096

REV.

SHEET NO. 17



LEGEND

EXISTING ELECTROLIER

NEW OR RELOCATED ELECTROLIER

FINAL DESIGN

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20 0 20 40

1" = 20' GRAPHIC SCALE

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STOCKWELL TO DEL AMO BLVD.

ROADWAY LIGHTING MODIFICATION

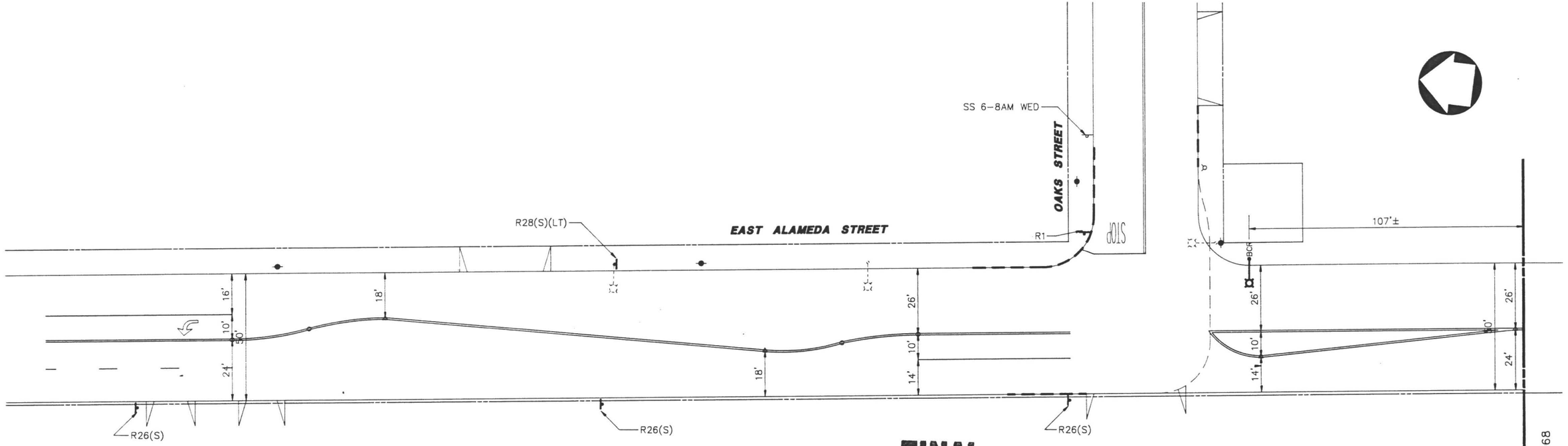
COMPTON BOULEVARD CROSSING

CONTRACT NO. R01–T01–

DRAWING NO. TR–096(

REV.

SHEET NO. 17



FINAL DESIGN

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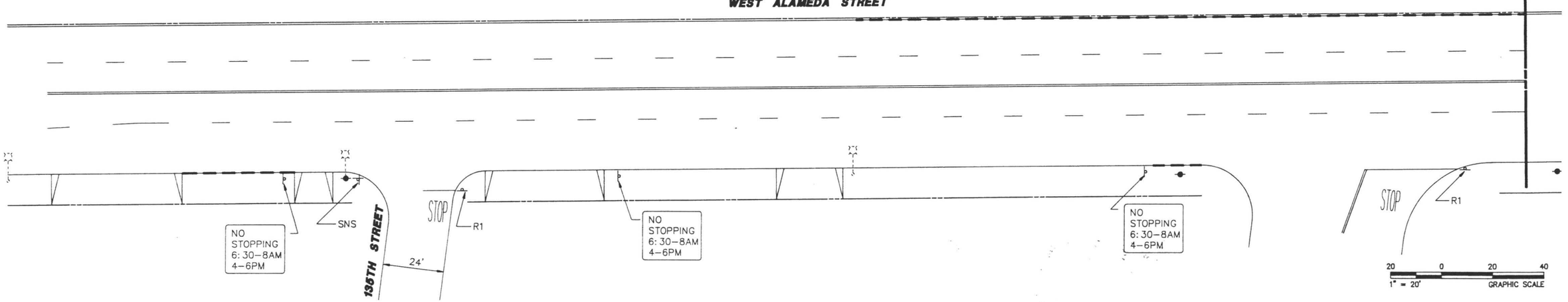
LEGEND

EXISTING ELECTROLIER

NEW OR RELOCATED ELECTROLIER

MATCH LINE DWG. TR-0968



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DRAWN BY Gail Ellenstead

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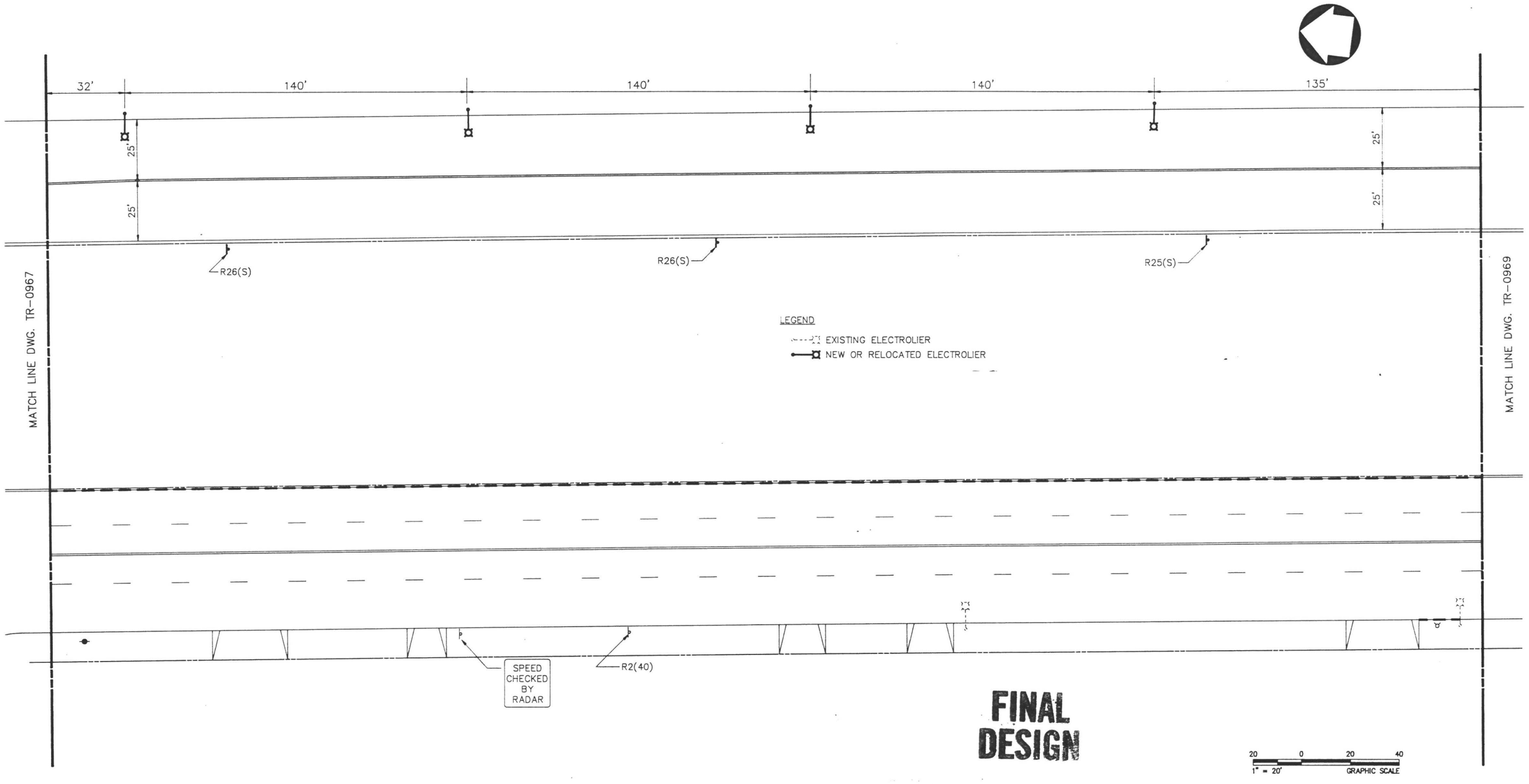
STOCKWELL TO DEL AMO BLVD.
ROADWAY LIGHTING MODIFICATION
ALAMEDA STREET AT

CONTRACT NO. R01-T01-
DRAWING NO. TR-096
REV.
SHEET NO. 17



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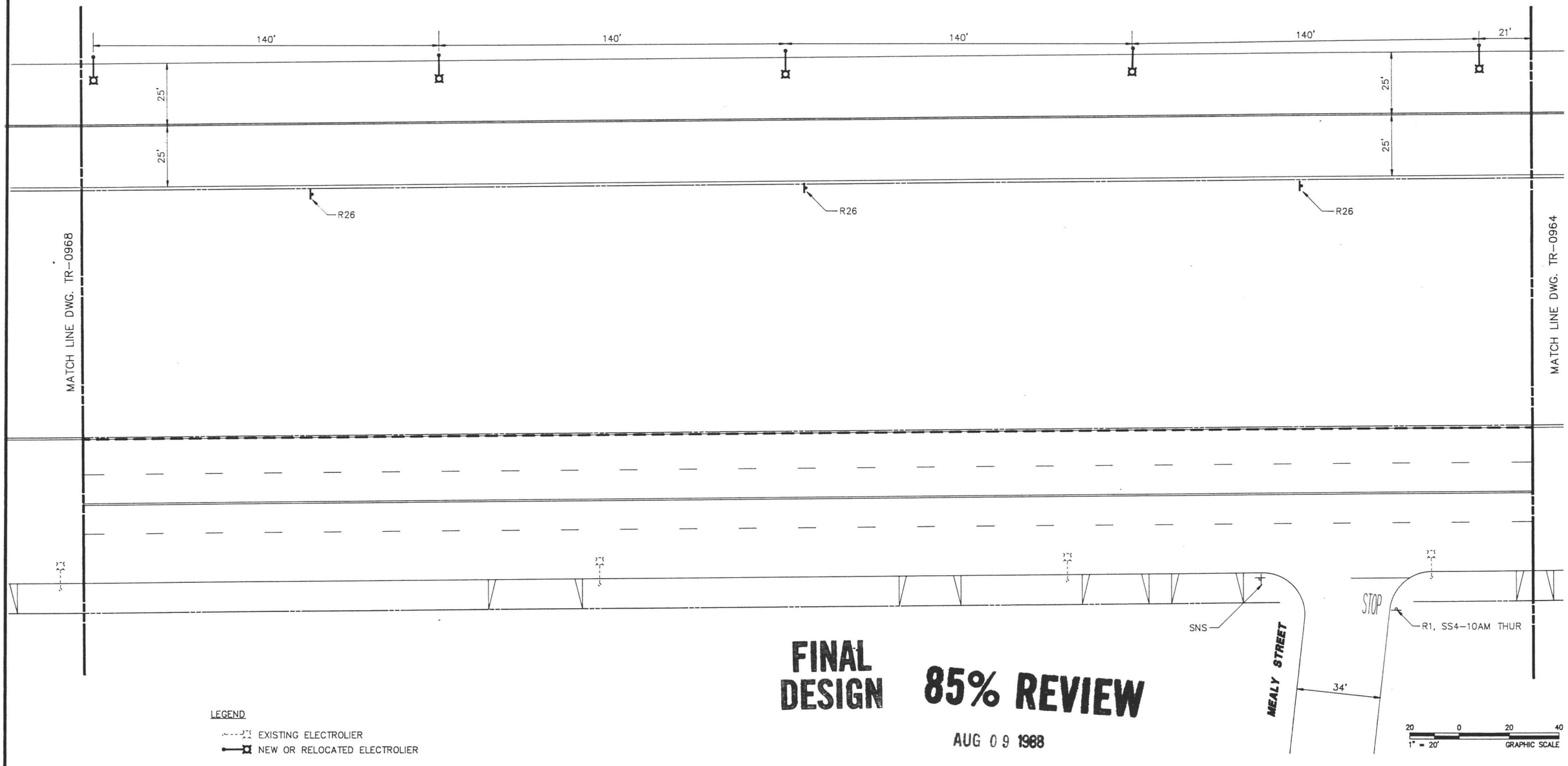
ROADWAY LIGHTING MODIFICATION
ALAMEDA STREET

CONTRACT NO. R01–T01
DRAWING NO. TR–096
REV.
SHEET NO. 18



LEGEND

EXISTING ELECTROLIER

NEW OR RELOCATED ELECTROLIER

FINAL DESIGN

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REV.	DATE	DESCRIPTION	BY	APP

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DRAWN BY	Dail Ellen Head
CHECKED BY	
APPROVED BY	
DATE	8-4-1988

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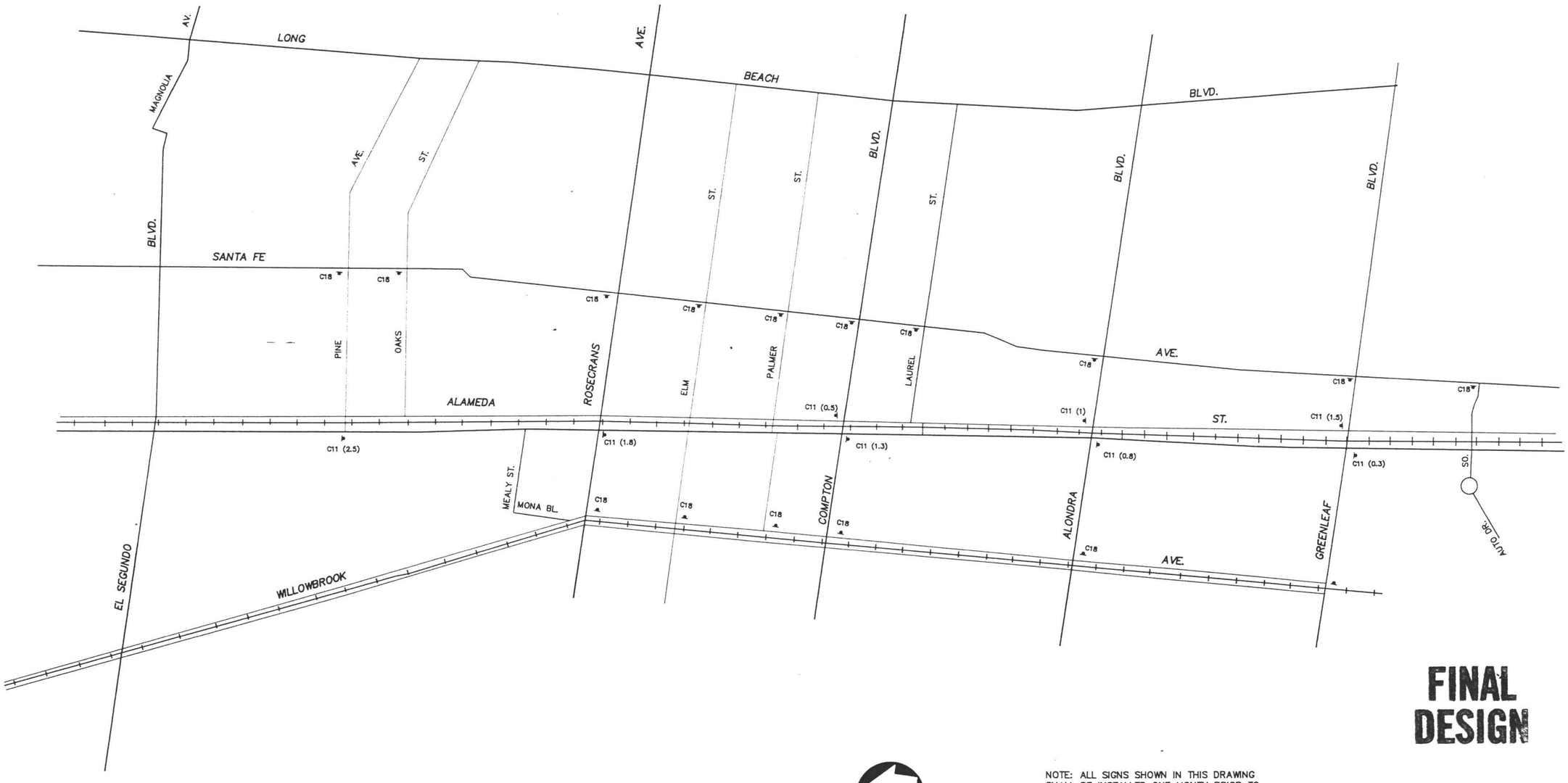
SUBMITTED: _____

APPROVED: _____

STOCKWELL TO DEL AMO BLVD.
ROADWAY LIGHTING MODIFICATION

ALAMEDA STREET AT
MEALY STREET

CONTRACT NO.	R01–T01–
DRAWING NO.	TR–0969
REV.	
SHEET NO.	18
SCALE	1" = 20'



NOTE: ALL SIGNS SHOWN IN THIS DRAWING SHALL BE INSTALLED ONE MONTH PRIOR TO THE START OF CONSTRUCTION AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.

FINAL DESIGN

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DESIGNED BY	T. Sala
DRAWN BY	
CHECKED BY	
APPROVED BY	
DATE	

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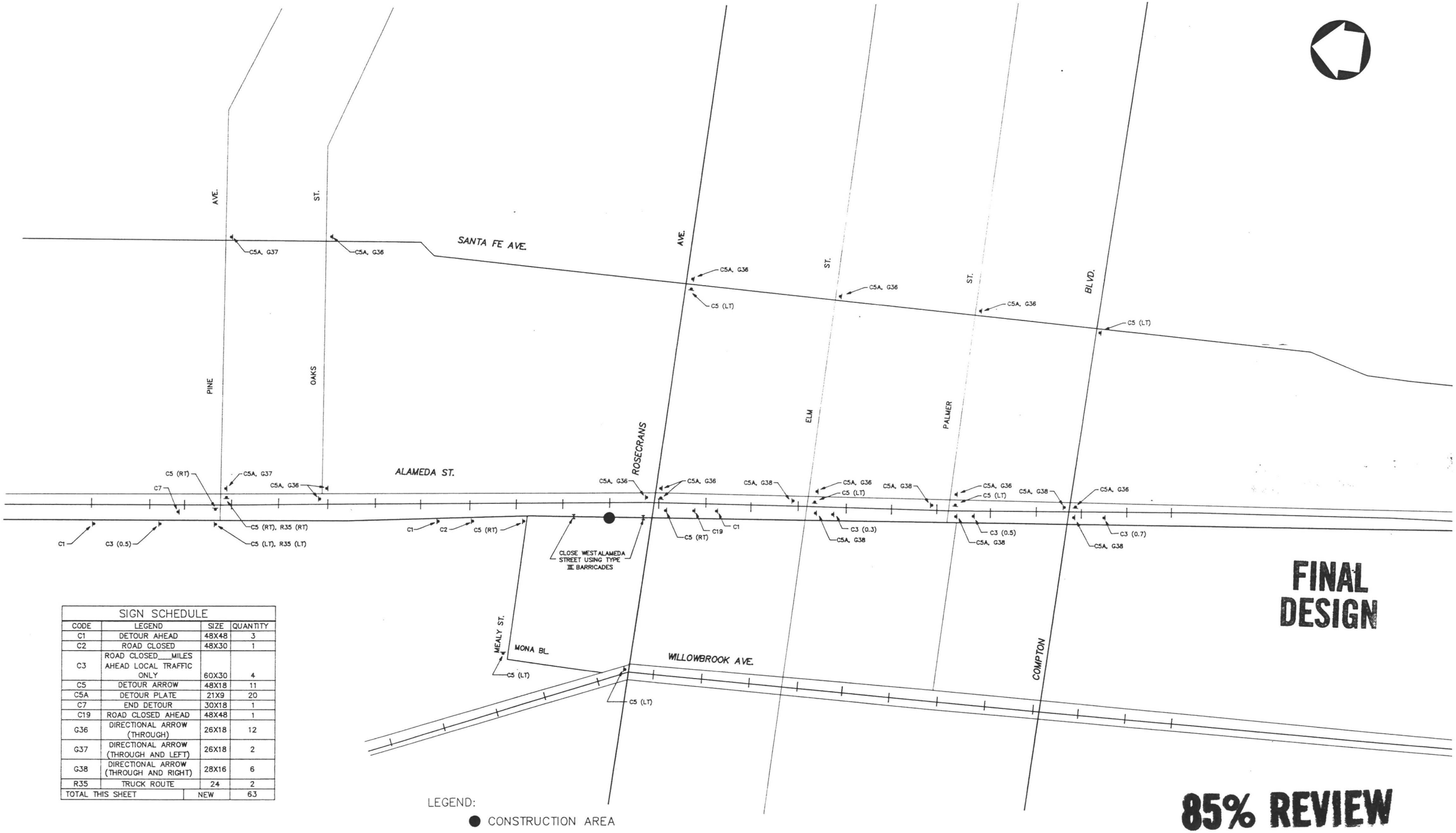
SUBMITTED:

APPROVED:

STOCKWELL TO DEL AMO BLVD.
CONSTRUCTION DETOUR ROUTING
GENERAL CONSTRUCTION ADVISORY SIGNING PLAN

CONTRACT NO.	R01–T01–
DRAWING NO.	TR–098
REV.	
SHEET NO.	18
SCALE	NOT TO SCALE



SIGN SCHEDULE			
CODE	LEGEND	SIZE	QUANTITY
C1	DETOUR AHEAD	48X48	3
C2	ROAD CLOSED	48X30	1
C3	ROAD CLOSED___MILES AHEAD LOCAL TRAFFIC ONLY	60X30	4
C5	DETOUR ARROW	48X18	11
C5A	DETOUR PLATE	21X9	20
C7	END DETOUR	30X18	1
C19	ROAD CLOSED AHEAD	48X48	1
G36	DIRECTIONAL ARROW (THROUGH)	26X18	12
G37	DIRECTIONAL ARROW (THROUGH AND LEFT)	26X18	2
G38	DIRECTIONAL ARROW (THROUGH AND RIGHT)	28X16	6
R35	TRUCK ROUTE	24	2
TOTAL THIS SHEET		NEW	63

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DESIGNED BY T. Salem
DRAWN BY D. Yeh
CHECKED BY
APPROVED BY
DATE 9-11-1988

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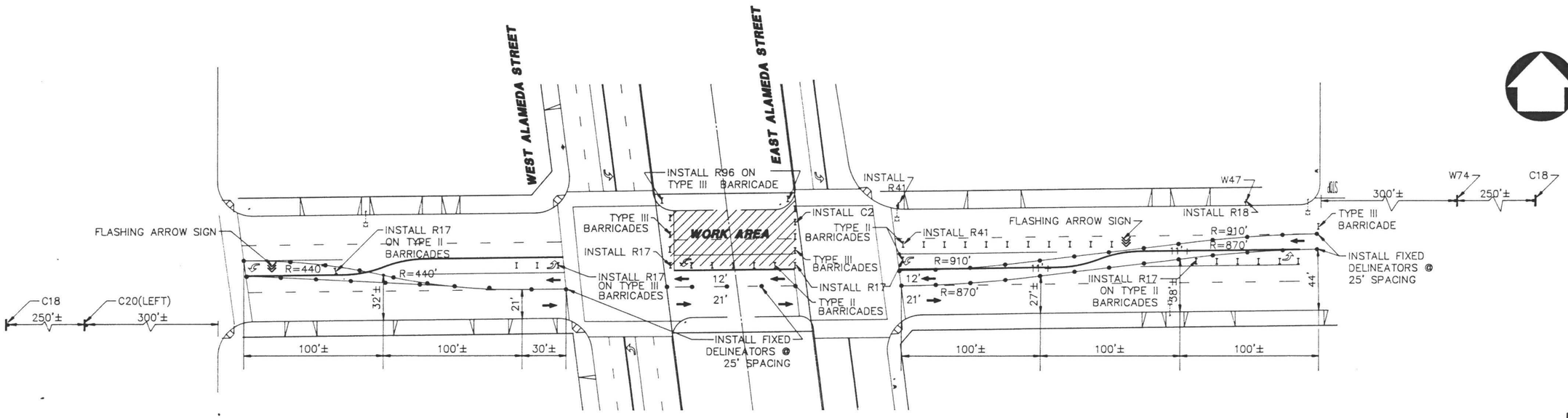
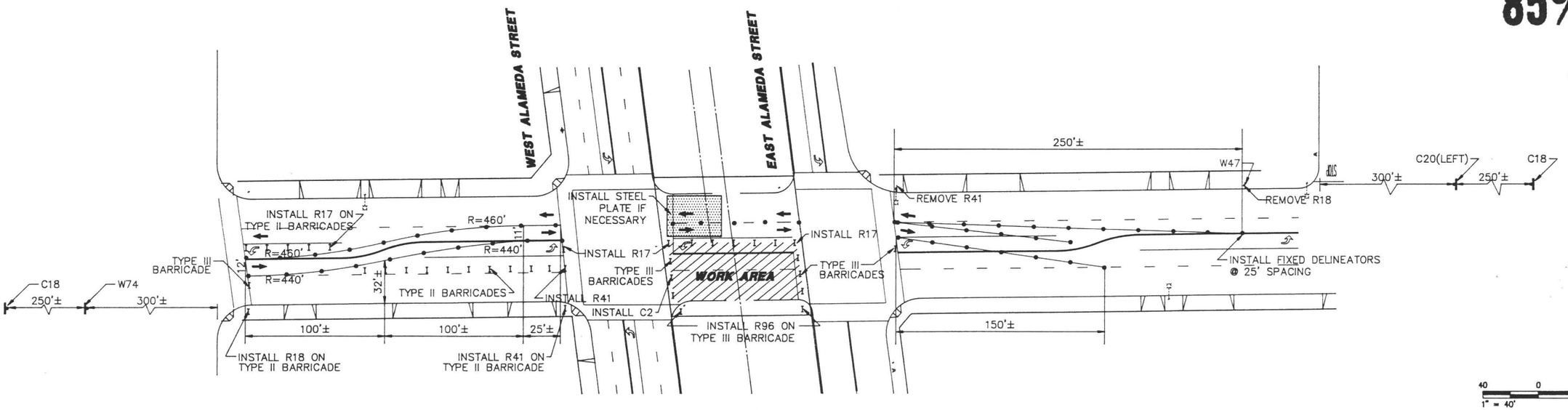
SUBMITTED:
APPROVED:

STOCKWELL TO DEL AMO BLVD.
CONSTRUCTION DETOUR ROUTING
FOR WEST ALAMEDA STREET CLOSURE

CONTRACT NO. R01–T01–
DRAWING NO. TR–0982
REV.
SHEET NO. 183
SCALE NOT TO SCALE



PHASE I



PHASE II

40 0 40 80
1" = 40' GRAPHIC SCALE

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DRAWN BY D. Yost
CHECKED BY
APPROVED BY
DATE 8-4-1988

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STOCKWELL TO DEL AMO BLVD.

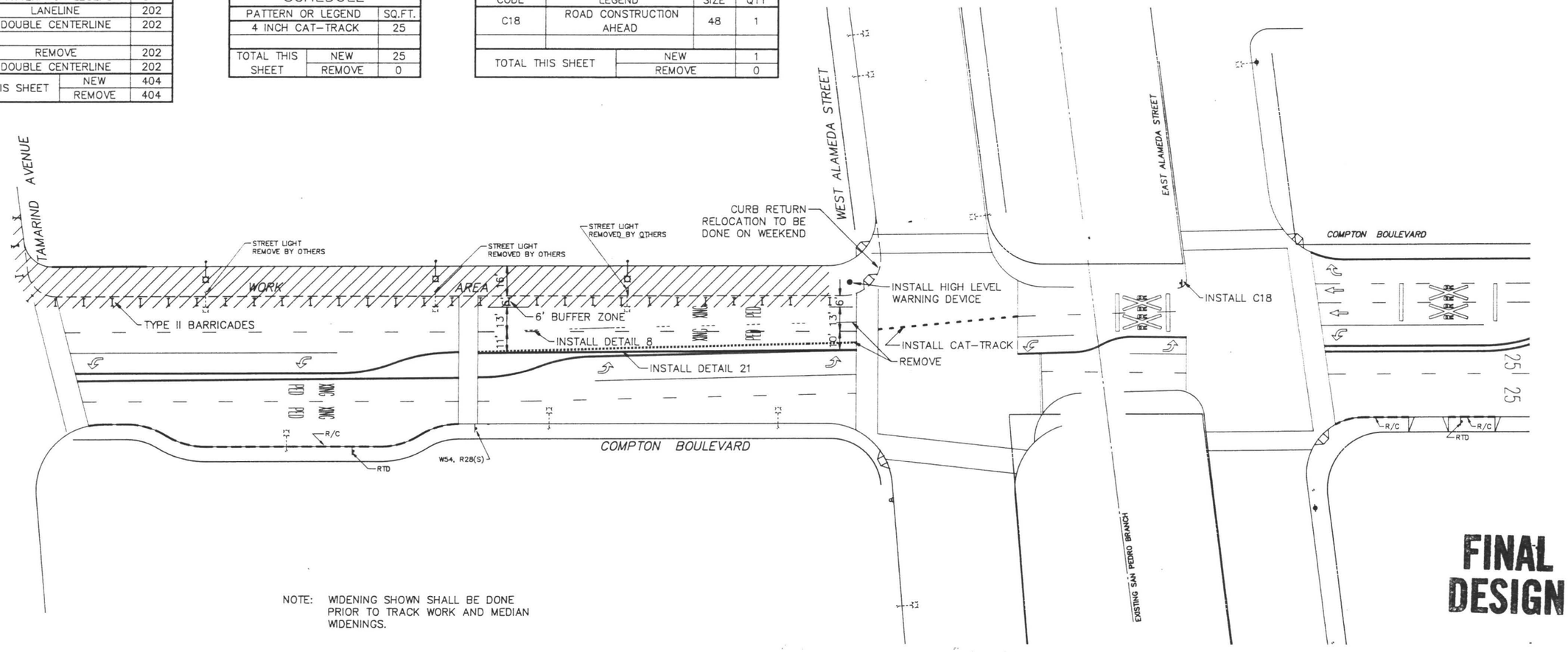
CONSTRUCTION DETOUR ROUTING FOR PARTIAL CLOSURE

CONTRACT NO. R01–T01–(
DRAWING NO. TR–0983
REV.
SHEET NO. 18
SCALE 1" = 40'

STRIPING SCHEDULE		
DETAIL	PATTERN OR LEGEND	L.F.
8	LANELINE	202
21	DOUBLE CENTERLINE	202
8	REMOVE	202
21	DOUBLE CENTERLINE	202
TOTAL THIS SHEET	NEW	404
	REMOVE	404

PAVEMENT MARKING SCHEDULE		
PATTERN OR LEGEND		SQ.FT.
4 INCH CAT-TRACK		25
TOTAL THIS SHEET	NEW	25
	REMOVE	0

SIGN SCHEDULE			
CODE	LEGEND	SIZE	QTY
C18	ROAD CONSTRUCTION AHEAD	48	1
TOTAL THIS SHEET	NEW		1
	REMOVE		0



NOTE: WIDENING SHOWN SHALL BE DONE PRIOR TO TRACK WORK AND MEDIAN WIDENINGS.

FINAL DESIGN

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30 0 30 60
1" = 30' GRAPHIC SCALE

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DRAWN BY
CHECKED BY
APPROVED BY
DATE

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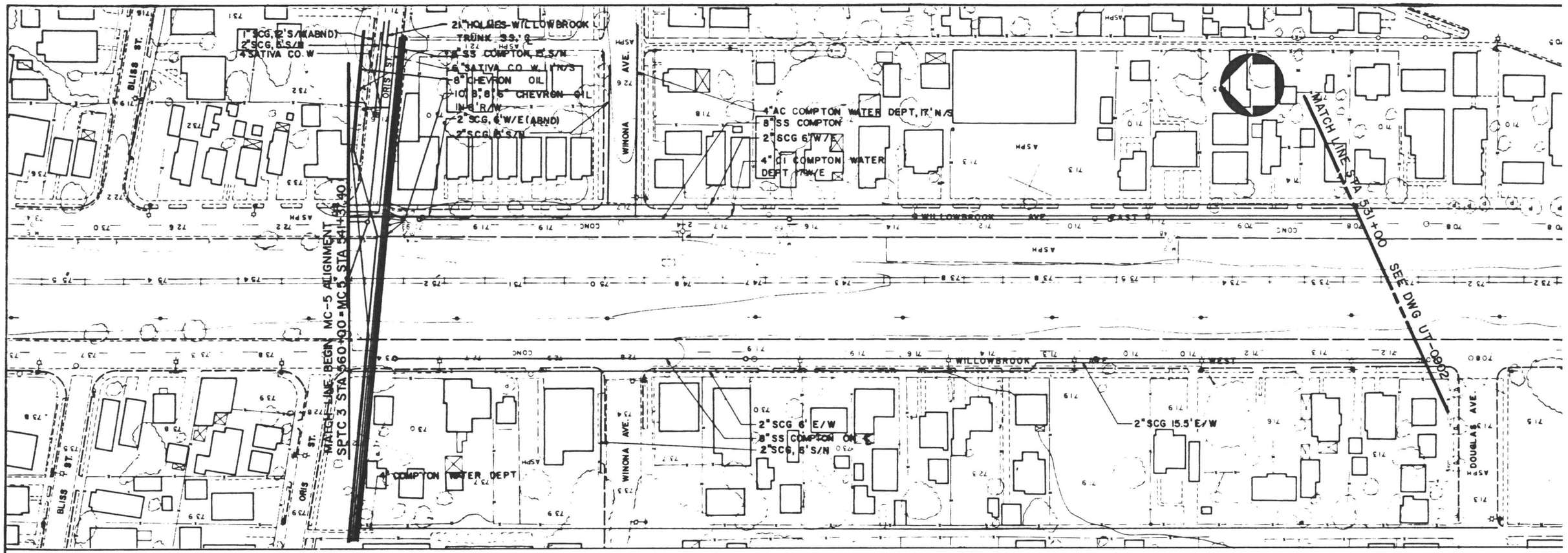
STOCKWELL TO DEL AMO BLVD.
CONSTRUCTION DETOUR ROUTING
FOR COMPTON BOULEVARD WIDENING

CONTRACT NO. R01–T01–
DRAWING NO. TR–098
REV.
SHEET NO. 185
SCALE 1" = 30'



FINAL DESIGN

85% REVIEW

AUG 09 1988

WARNING

THERE IS NO ASSURANCE THAT THE LOCATION OF SUBSTRUCTURES SHOWN THE DRAWINGS IS ACCURATE, OR THAT ALL EXISTING SUBSTRUCTURES SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR PROTECT ALL SUBSTRUCTURES WHETHER SHOWN OR NOT. ANY DAMAGE TO EXISTING SUBSTRUCTURES, SHALL BE REPAIRED AT THE CONTRACTC EXPENSE.

50 0 50 100
1" = 50'-0" GRAPHIC SCALE

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DRAWN BY G. STEVENS
CHECKED BY B. Haghani
APPROVED BY
DATE

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The Long Beach-Los Angeles Rail Transit Project

TRANSCAL
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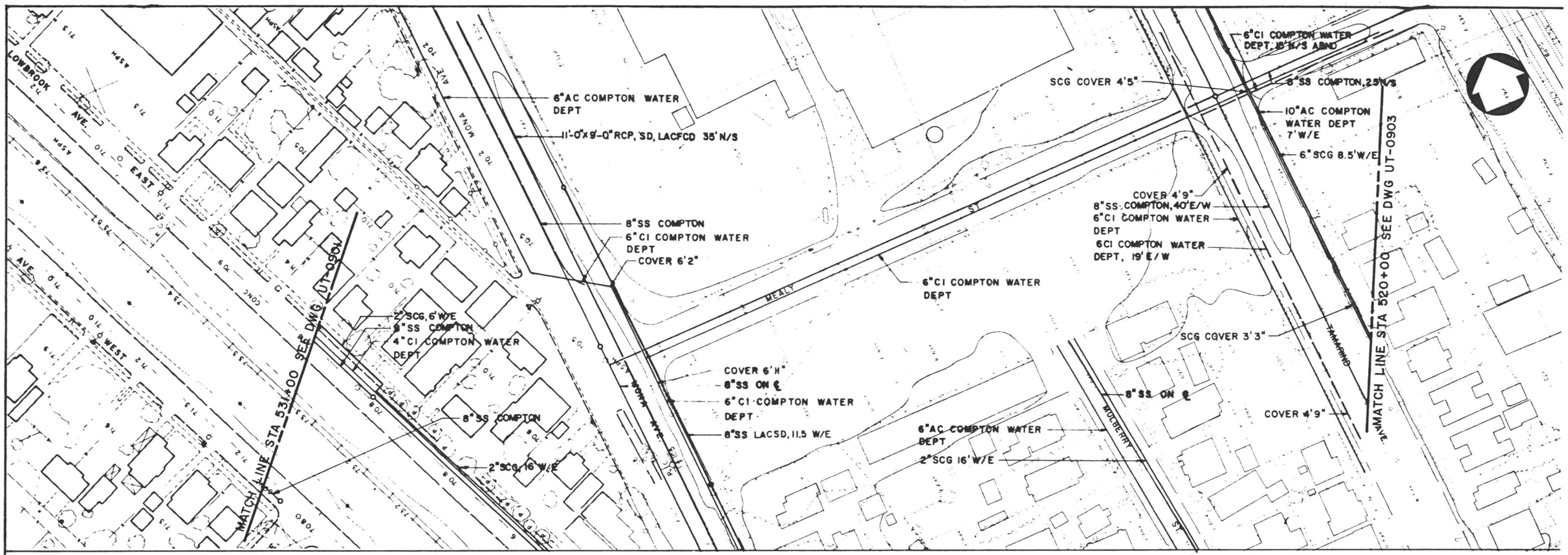
STOCKWELL TO DEL AMO BLVD.
RAILROAD RELOCATION WORK
EXISTING UNDERGROUND UTILITIES

SH. 1 OF 17

CONTRACT NO. ROI-TOI-C
DRAWING NO. UT-0901
REV.
SHEET NO. 18(
SCALE AS NOTED



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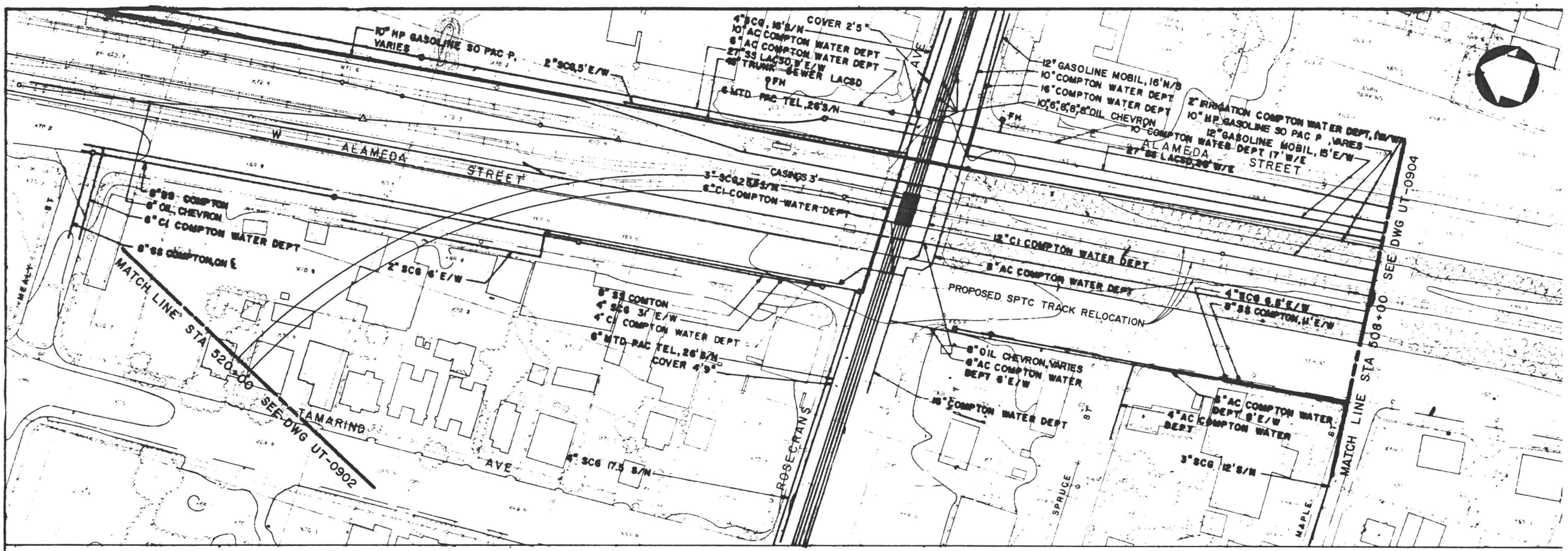
RAILROAD RELOCATION WORK
EXISTING UNDERGROUND UTILITIES

SH. 2 OF 17

CONTRACT NO. ROI-TOI-
DRAWING NO UT-0902
REV.
SHEET NO. 18
SCALE AS NOTED



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EXISTING UNDERGROUND UTILITIES
SH.3 OF 17

CONTRACT NO. ROI-TOI-C
DRAWING NO. UT-0903
REV.
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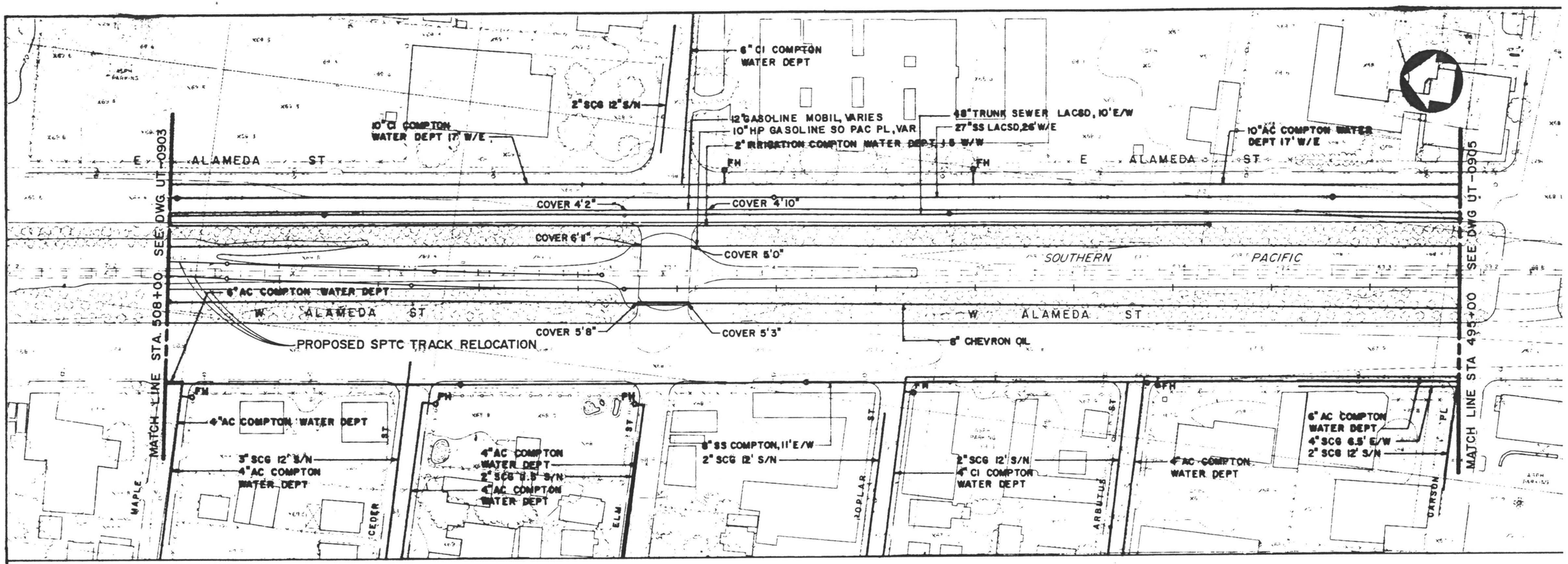
SCALE AS NOTED



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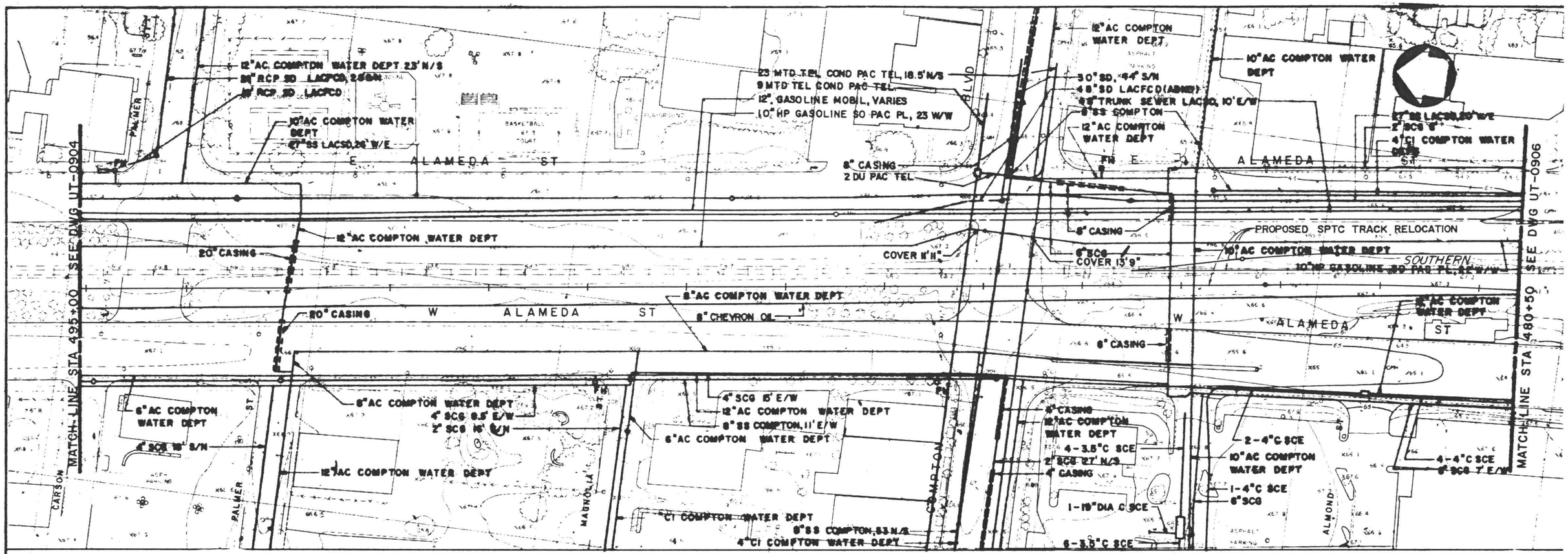
EXISTING UNDERGROUND UTILITIES

SH. 4 OF 17

CONTRACT NO. ROI-TOI-
DRAWING NO. UT-0904
REV.
SHEET NO. 18
SCALE AS NOTED



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DRAWN BY G. STEVENS.
CHECKED BY B. Haghani
APPROVED BY J. McKay
DATE

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SH.5 OF 17

CONTRACT NO. ROI-TOI-
DRAWING NO. UT-0905
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SHEET NO. 19
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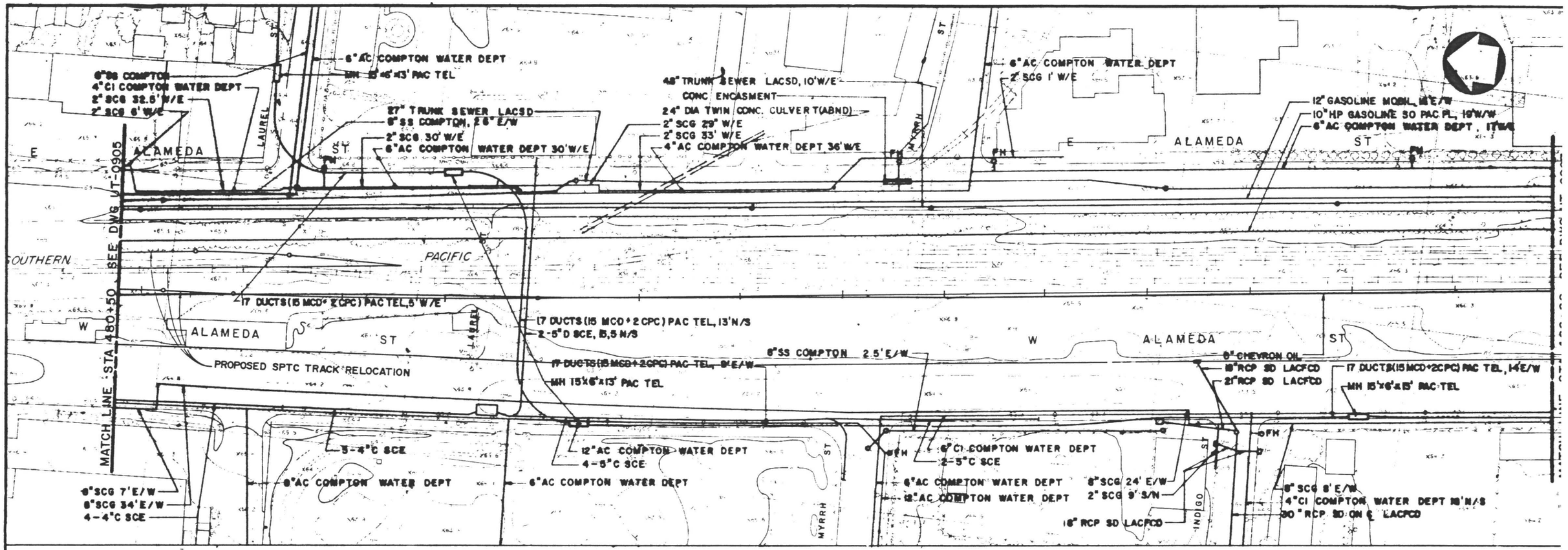

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SH 6 OF 17

CONTRACT NO. RQI-TOI-C
DRAWING NO. UT-0906
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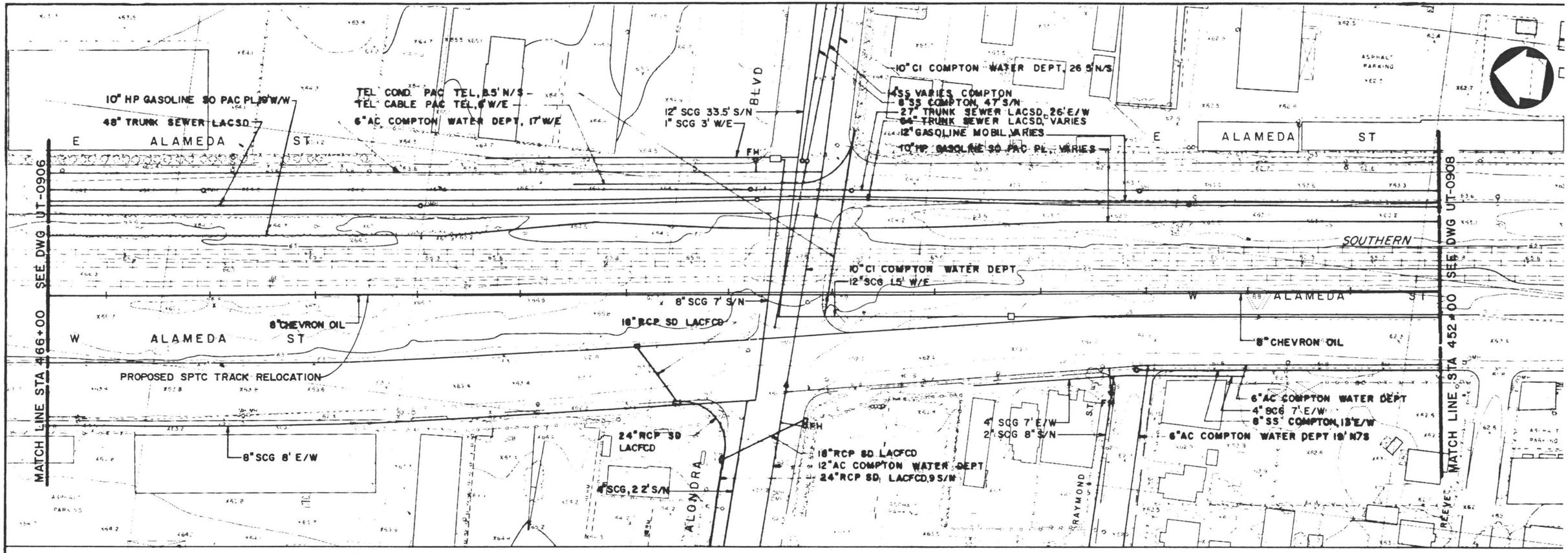

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DRAWN BY G. STEVENS
CHECKED BY B. Haghani
APPROVED BY [signature]
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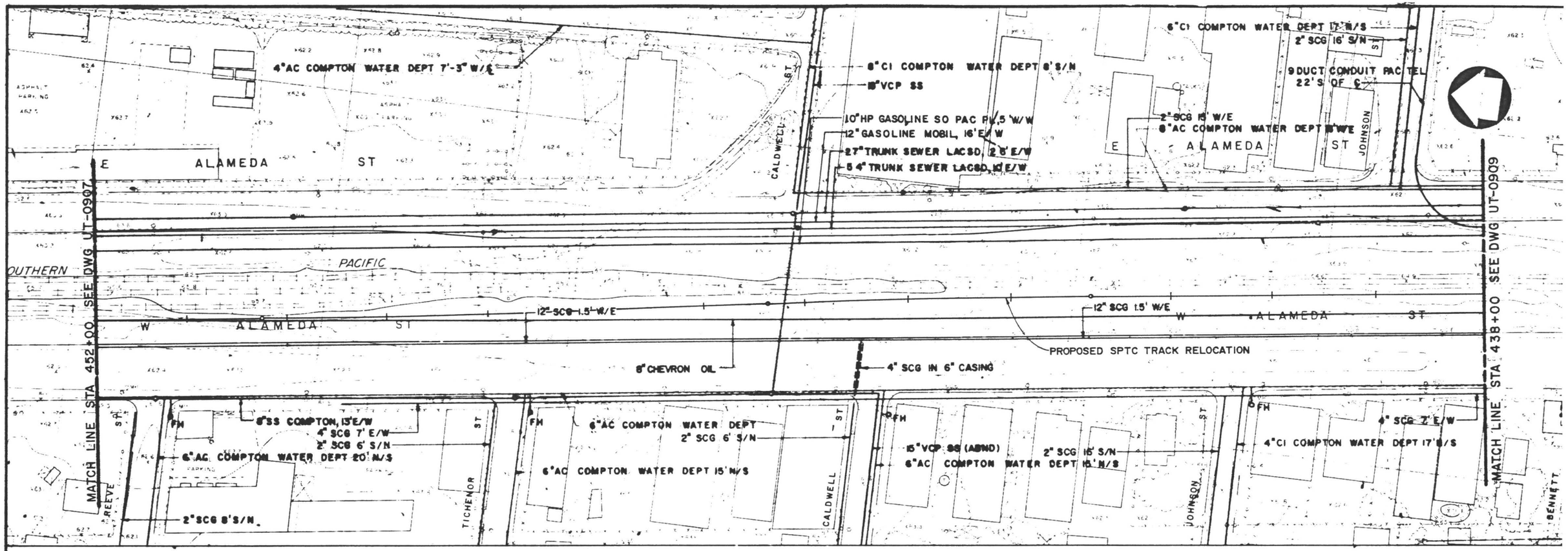
RAILROAD RELOCATION WORK
EXISTING UNDERGROUND UTILITIES

SH.7 OF 17

CONTRACT NO. R01-T01-
DRAWING NO. UT-0907
REV.
SHEET NO. 19
SCALE AS NOTED



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DRAWN BY G. STEVENS
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DATE

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EXISTING UNDERGROUND UTILITIES

SH. 8 OF 17

CONTRACT NO. ROI-TOH-
DRAWING NO. UT-0908
REV.
SHEET NO. 10
SCALE AS NOTED

8"AC COMPTON WATER DEPT 19.5'S/N

6 DUCT CONDUIT PAC TEL
4" SCG 5' S/N
2" SCG 15' W/E
8" GASOLINE MOBIL, 15'E/W
10" HIGH PRESSURE GASOLINE

6"CI COMPTON WATER DEPT 17'S/N

27" TRUNK SEWER LACSD, 26'E/W
2" SCG 6' W/E
6"AC COMPTON WATER DEPT 16.5' W/E
54" TRUNK SEWER LACSD, 10'E/W

4" SCG 2' N/S
12" GASOLINE MOBIL, 10'E/W
10" HP GASOLINE, SO PAC PL, 8'W/W

2" SCG 7' W/E
6"CI COMPTON WATER DEPT

2" SCG 3' W/E

4" SCG
12" SCG 1.5' W/E

6"AC COMPTON WATER DEPT

72" MWD 15.5'℄

42" TRUNK SEWER LACSD, 14.67'E/W
33" SS, LACSD 5'E/W

33" SS, LACSD

1-1"C SCE

12" SCG 1.5' W/E

18" STL CASING
10" SS

1-2"C SCE

1-2"C SCE

PROPOSED SPTC TRACT RELOCATION

8" CHEVRON OIL CASING

4" SCG 18' E/W
6"AC COMPTON WATER DEPT
8" SS COMPTON 9'E/W

4"CI COMPTON WATER DEPT 17'N/S

1-2"C SCE

1-1"C SCE
12"AC COMPTON WATER DEPT
42" SD, 87' W/W

33" SS, LACSD

3" SCG 12' S/N

6"CI COMPTON WATER DEPT

4" SCG 7'E/W
8" SCG 7' S/N

12"AC COMPTON WATER DEPT 12'S/℄

ALAMEDA ST

SOUTHERN AUTO DR

GREENLEAF BLVD

BENNETT

MATCH LINE STA 438+00 SEE DWG UT-0908

MATCH LINE STA 423+50 SEE DWG UT-0910

FINAL DESIGN

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DRAWN BY G. STEVENS
CHECKED BY B. Haghani
APPROVED BY
DATE

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

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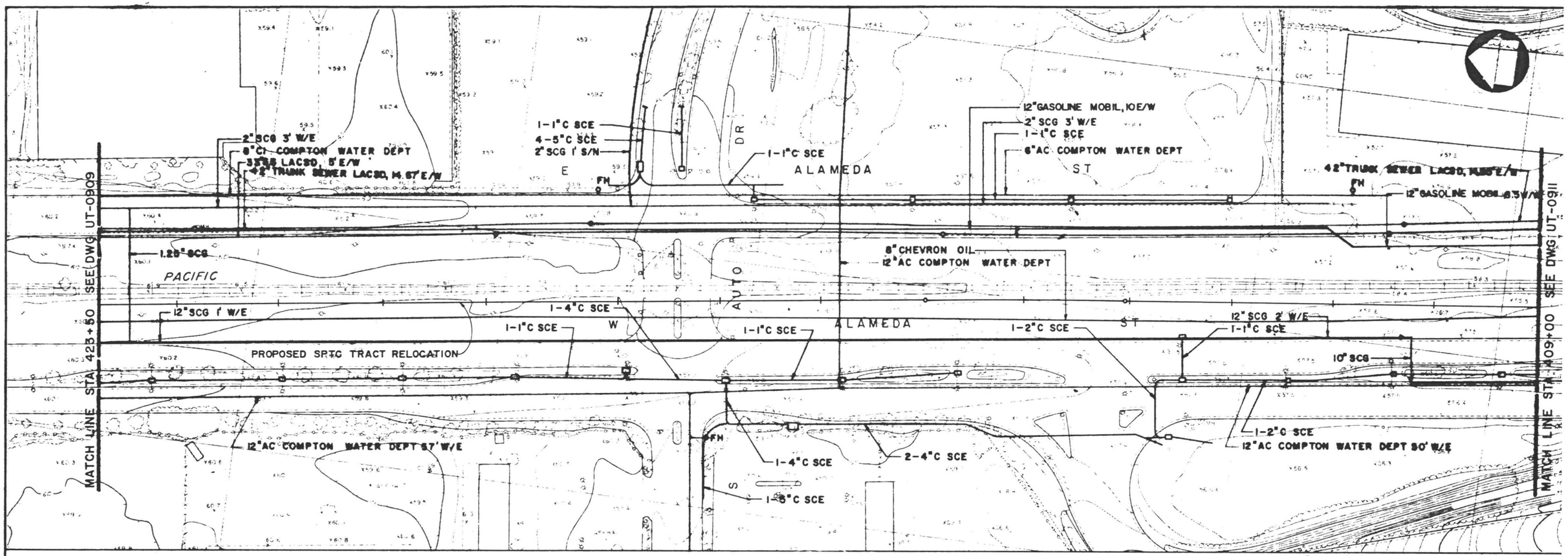
STOCKWELL TO DEL AMO BLVD.
RAILROAD RELOCATION WORK
EXISTING UNDERGROUND UTILITIES
SH. 9 OF 17

CONTRACT NO. ROI-TOI-C
DRAWING NO UT-0909
REV.
SHEET NO. 19
SCALE AS NOTED



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APPROVED:

STOCKWELL TO DEL AMO BLVD.
RAILROAD RELOCATION WORK
EXISTING UNDERGROUND UTILITIES
SH 10 OF 17

CONTRACT NO. RO1-TOH
DRAWING NO. UT-0910
REV.
SHEET NO. 19
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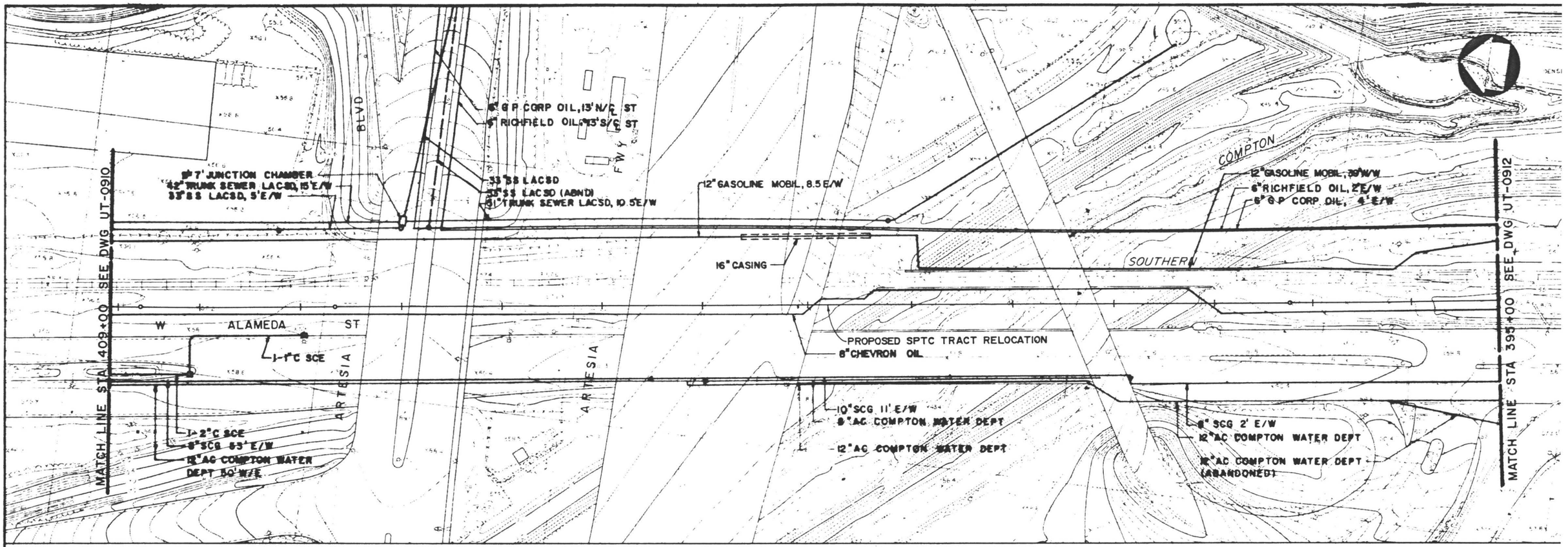

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DRAWN BY G. STEVENS
CHECKED BY B. Haghani
APPROVED BY [signature]
DATE

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RAILROAD RELOCATION WORK
EXISTING UNDERGROUND UTILITIES

SH. 11 OF 17

CONTRACT NO. R01-T01-
DRAWING NO. UT-0911
REV.
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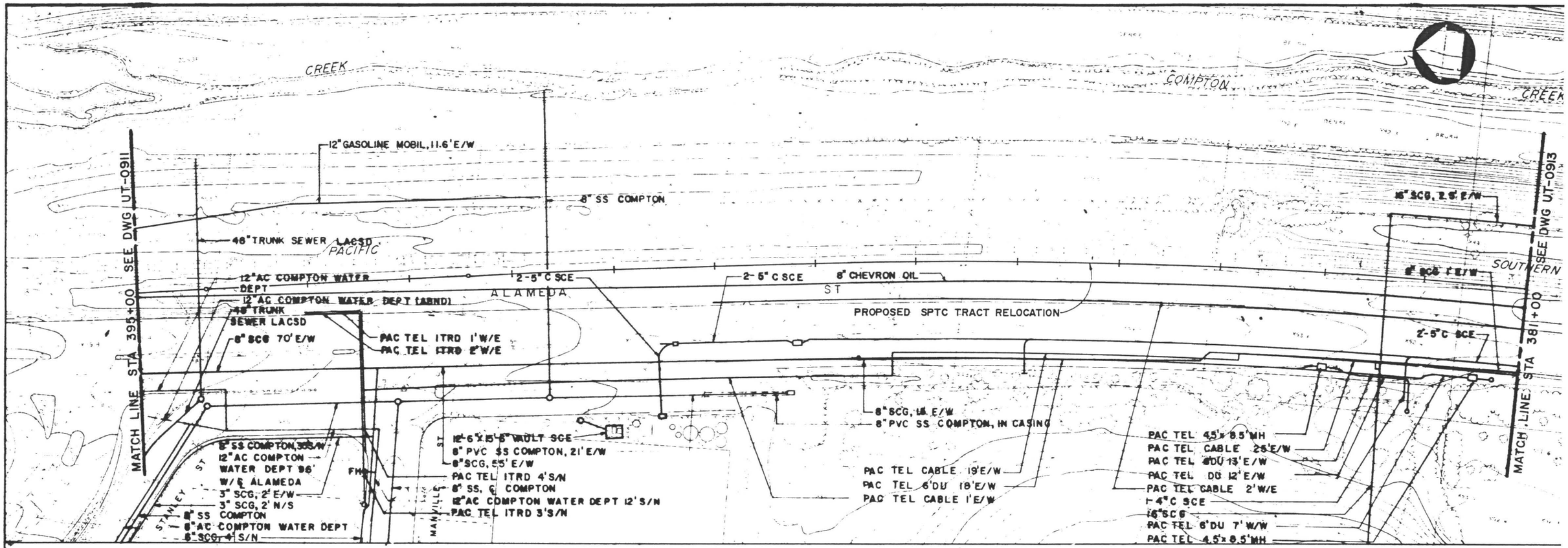

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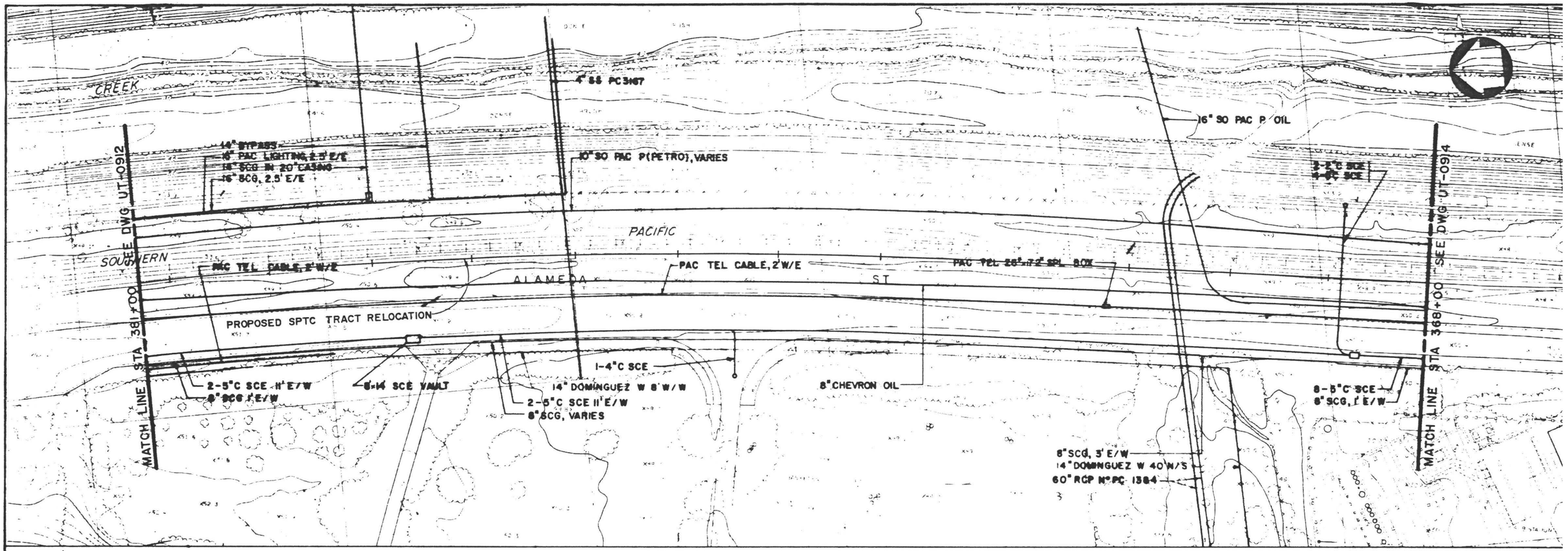
RAILROAD RELOCATION WORK
EXISTING UNDERGROUND UTILITIES
SH. 12 OF 17

CONTRACT NO. ROI-TOI
DRAWING NO. UT-0912
REV.
SHEET NO. 10
SCALE AS NOTED



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CHECKED BY B. Hashani
APPROVED BY [signature]
DATE 12-6-85

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SH. 13 OF 17

CONTRACT NO. R01-T01-(
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REV.
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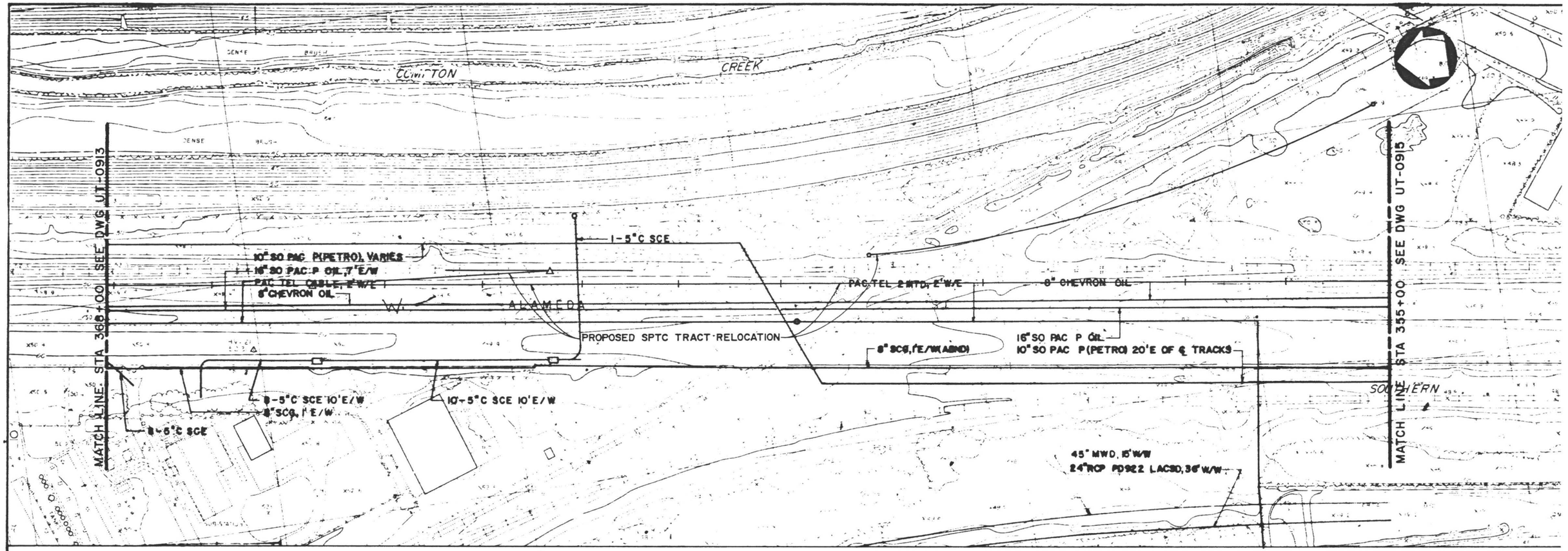

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SH. 14 OF 17

CONTRACT NO. ROI-TOI-(
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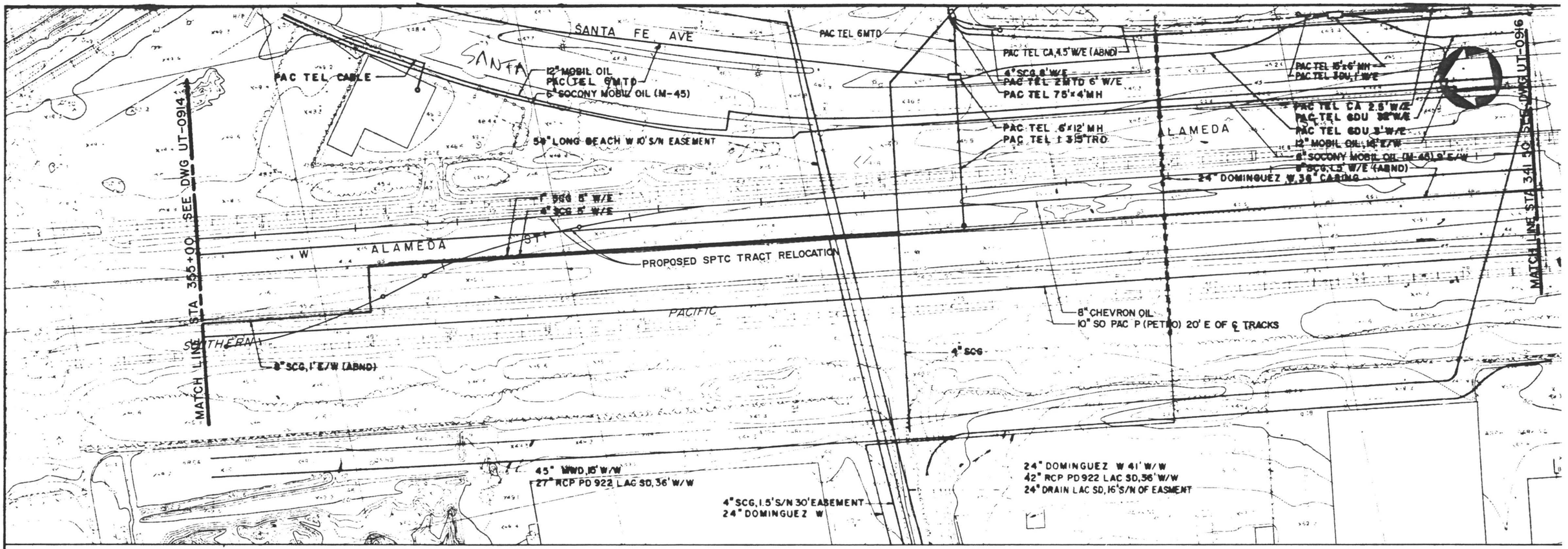
SHEET NO. 19
SCALE AS NOTED



FINAL DESIGN

85% REVIEW

AUG 09 1988

WARNING

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50 0 50 10
1" = 50'-0" GRAPHIC SCALE

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DESIGNED BY Clark Gamer
DRAWN BY G. STEVENS
CHECKED BY B. Haghani
APPROVED BY
DATE

LACTC
LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

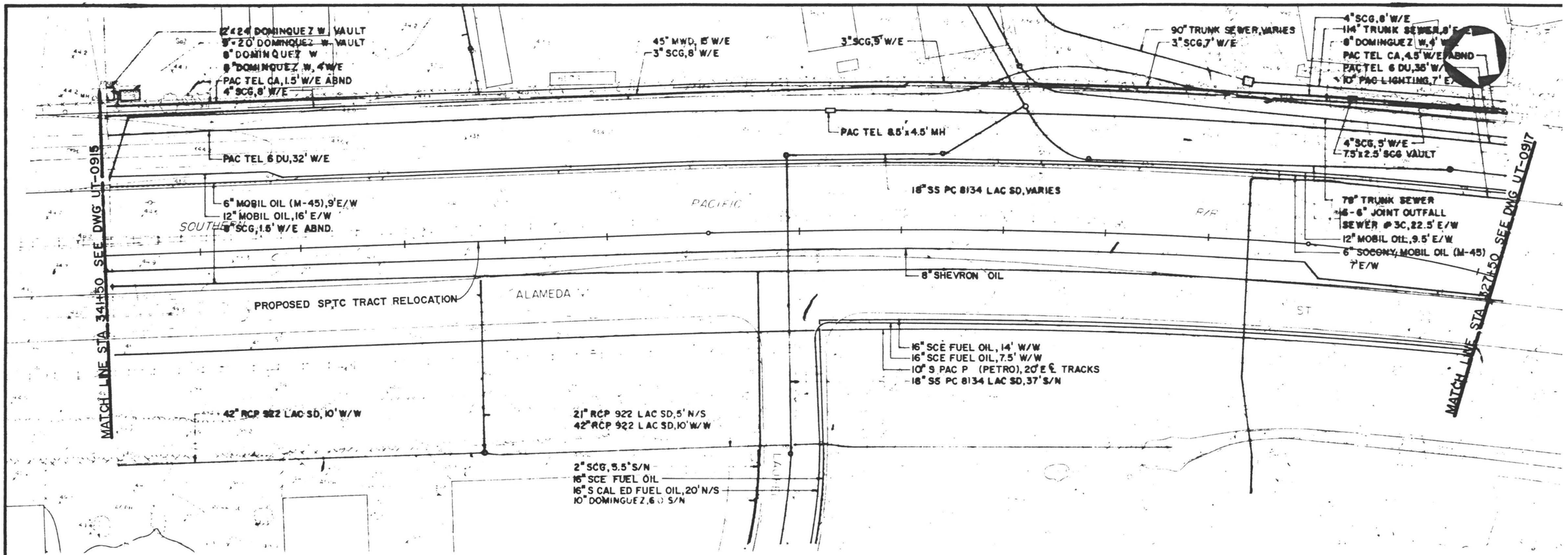
TRANSFAIL
Transit Consultants of Southern California

Transit Consultants of Southern California
A Joint Venture of:
- Parsons Brinckerhoff Quade & Douglas, Inc.
- Daniel, Mann, Johnson & Mendenhall
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

SUBMITTED:
APPROVED:

STOCKWELL TO DEL AMO BLVD.
RAILROAD RELOCATION WORK
EXISTING UNDERGROUND UTILITIES
SH. 15 OF 17

CONTRACT NO. ROI-TOI-C
DRAWING NO. UT-0915
REV.
SHEET NO. 20
SCALE AS NOTED



FINAL DESIGN

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1" = 50'-0" HORIZ.

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DESIGNED BY
DRAWN BY
CHECKED BY
APPROVED BY
DATE

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

TRANSCAL
Transit Consultants of Southern California

SUBMITTED:

Transit Consultants of Southern California
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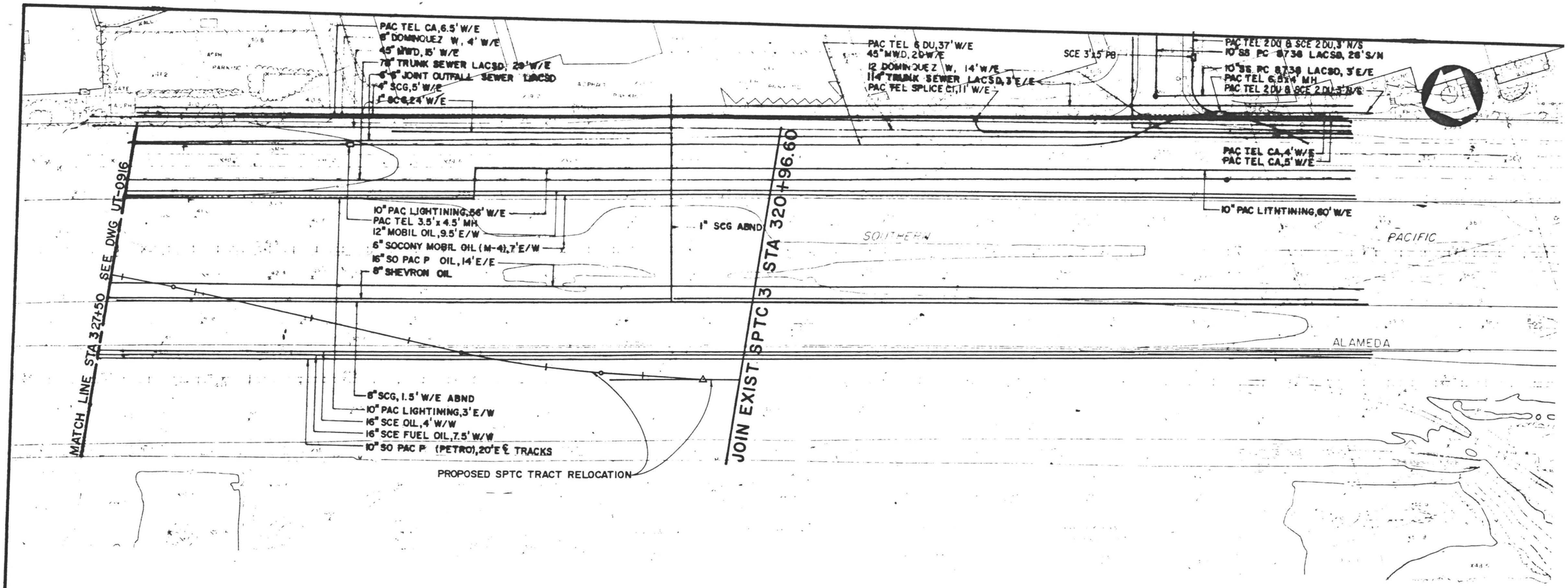
- North Pacific Construction Management

APPROVED:

STOCKWELL TO DEL AMO BLVD.
RAILROAD RELOCATION WORK
EXISTING UNDERGROUND UTILITIES

SH. 16 OF 17

CONTRACT NO. ROI-TOI-C
DRAWING NO. UT-0916
REV.
SHEET NO. 2C
SCALE AS NOTED



FINAL DESIGN

85% REVIEW

AUG 09 1988

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50 0 50 100
1" = 50'-0" HORIZ

REV	DATE	DESCRIPTION	BY	APP

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DESIGNED BY OGAWA
DRAWN BY Z. Grimshaw
CHECKED BY HAGHANI
APPROVED BY [signature]
DATE 12-6-85

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

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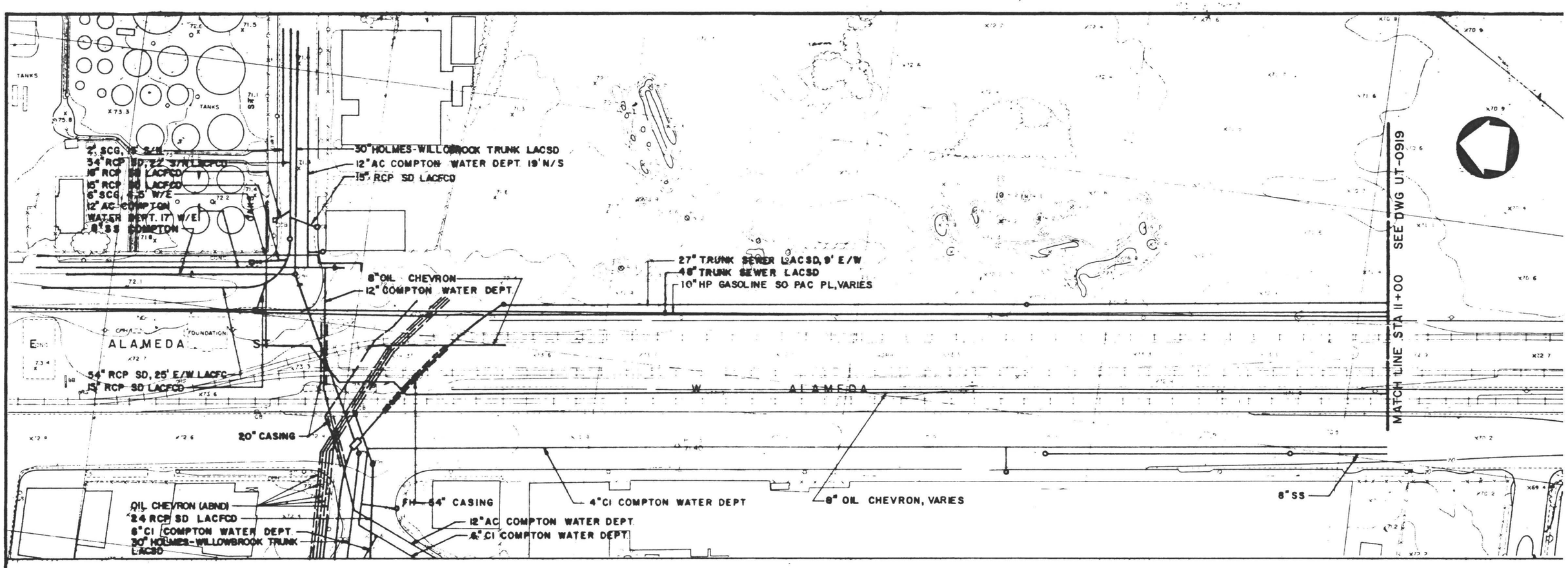
- Kaiser Engineers (California) Corporation
- North Pacific Construction Management

APPROVED:

STOCKWELL TO DEL AMO BLVD.
RAILROAD RELOCATION WORK
EXISTING UNDERGROUND UTILITIES

SH.17 OF 17

CONTRACT NO. R01-T01-C
DRAWING NO UT-0917
REV.
SHEET NO. 20
SCALE AS NOTED



FINAL DESIGN

85% REVIEW

AUG 09 1988

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1" = 50'-0" GRAPHIC SCA

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DESIGNED BY Chuck Quan
DRAWN BY G. STEVENS
CHECKED BY B. Hughes
APPROVED BY
DATE

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

TRANSCAL
Transit Consultants of Southern California

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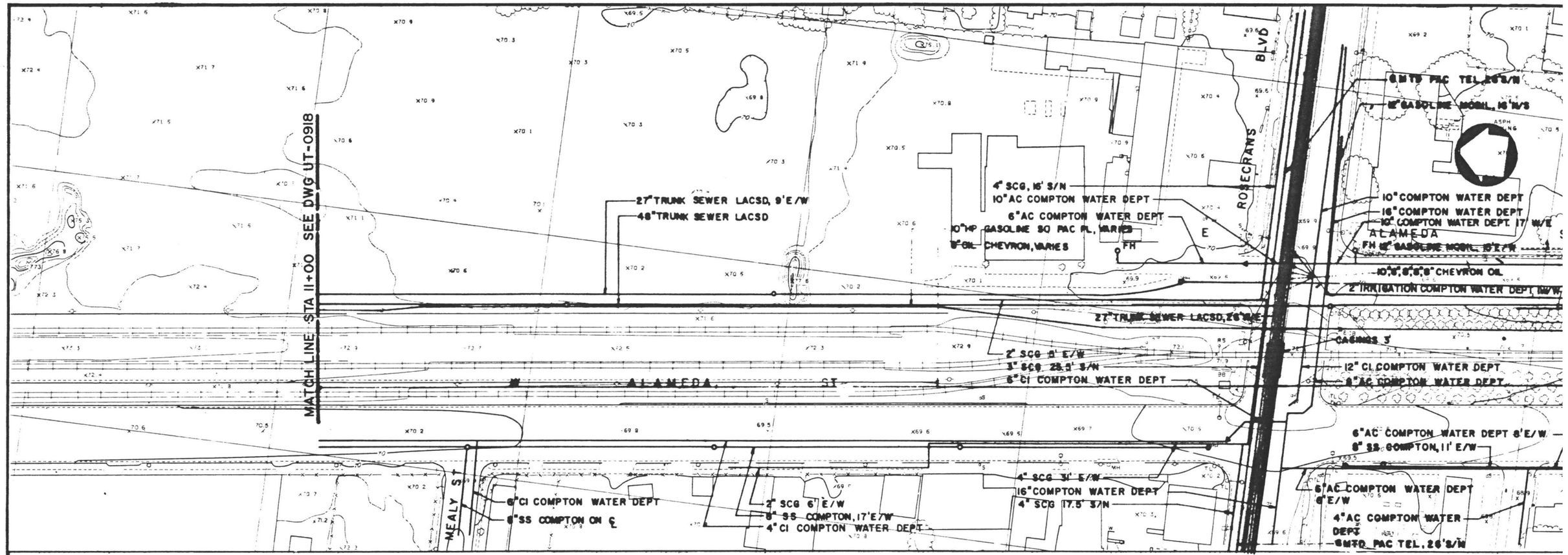
A Joint Venture of:
Parsons Brinckerhoff Quade & Douglas, Inc.
Daniel, Mann, Johnson & Mendenhall
Kaiser Engineers (California) Corporation
North Pacific Construction Management

SUBMITTED:
APPROVED:

STOCKWELL TO DEL AMO BLVD.
RAILROAD RELOCATION WORK
EXISTING UNDERGROUND UTILITIES
EAST ALAMEDA STREET
SH. 1 OF 2

CONTRACT NO. RO1-TO1-C
DRAWING NO. UT-0918
REV.
SHEET NO. 20
SCALE AS NOTED



FINAL DESIGN

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DESIGNED BY
DRAWN BY G. STEVENS
CHECKED BY B. Hagbani
APPROVED BY
DATE

LOS ANGELES COUNTY TRANSPORTATION COMMISSION
The Long Beach-Los Angeles Rail Transit Project

TRANSCAL
Transit Consultants of Southern California

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- North Pacific Construction Management

APPROVED:

STOCKWELL TO DEL AMO BLVD.
RAILROAD RELOCATION WORK
EXISTING UNDERGROUND UTILITIES
EAST ALAMEDA STREET

SH. 2 OF 2

CONTRACT NO. ROI-TOI-
DRAWING NO. UT-091
REV.
SHEET NO. 2
SCALE AS NOTED