Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	801	1929

REGISTERED CIVIL ENGINEER 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JULIET SU No. C56168 Exp. 12/31/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

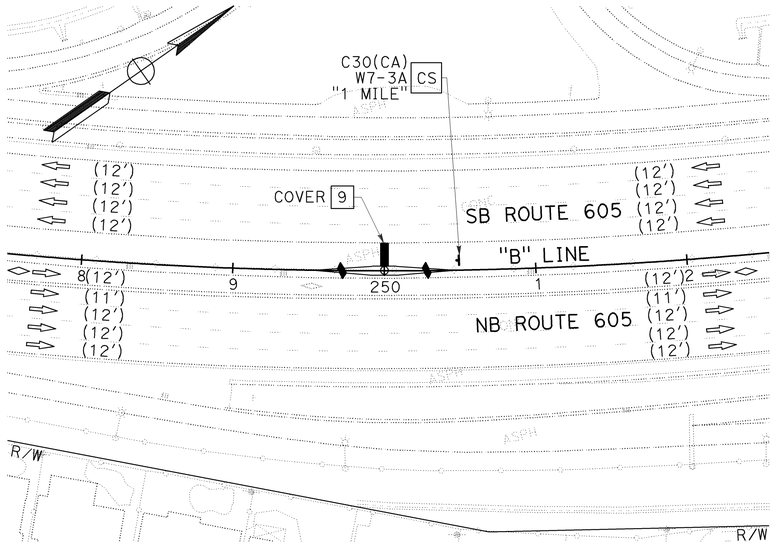
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

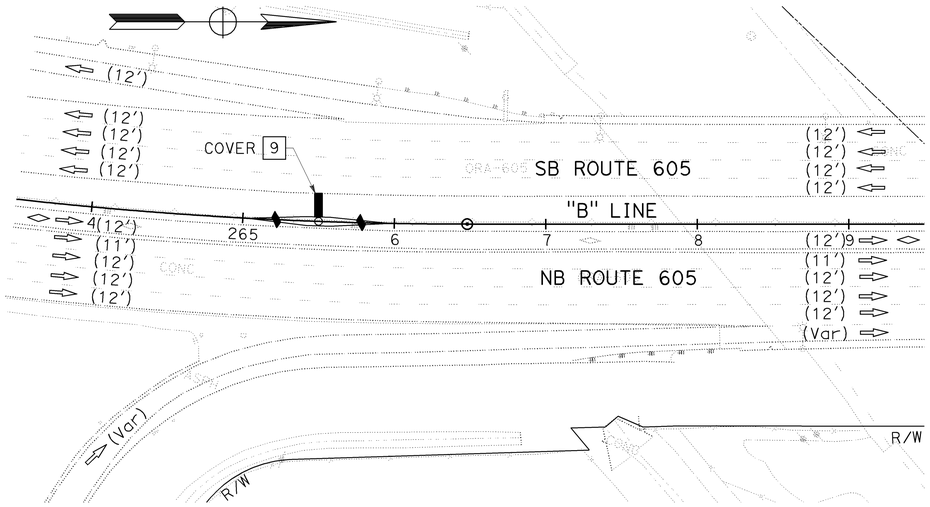
NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTE THIS SHEET:

9 Const OH SIGN. SEE SIGN PLANS. CONSECUTIVE OVERNIGHT LANE CLOSURES REQUIRED.





STAGE 3C

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-194

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION 08-10-09
DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	802	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

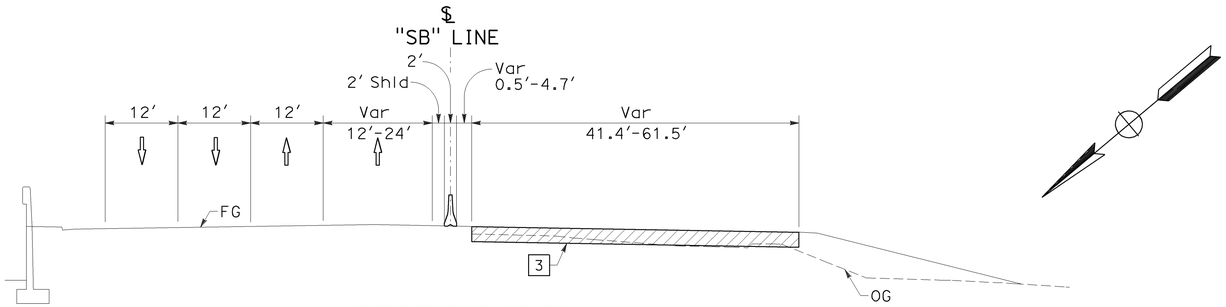
1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTES THIS SHEET:

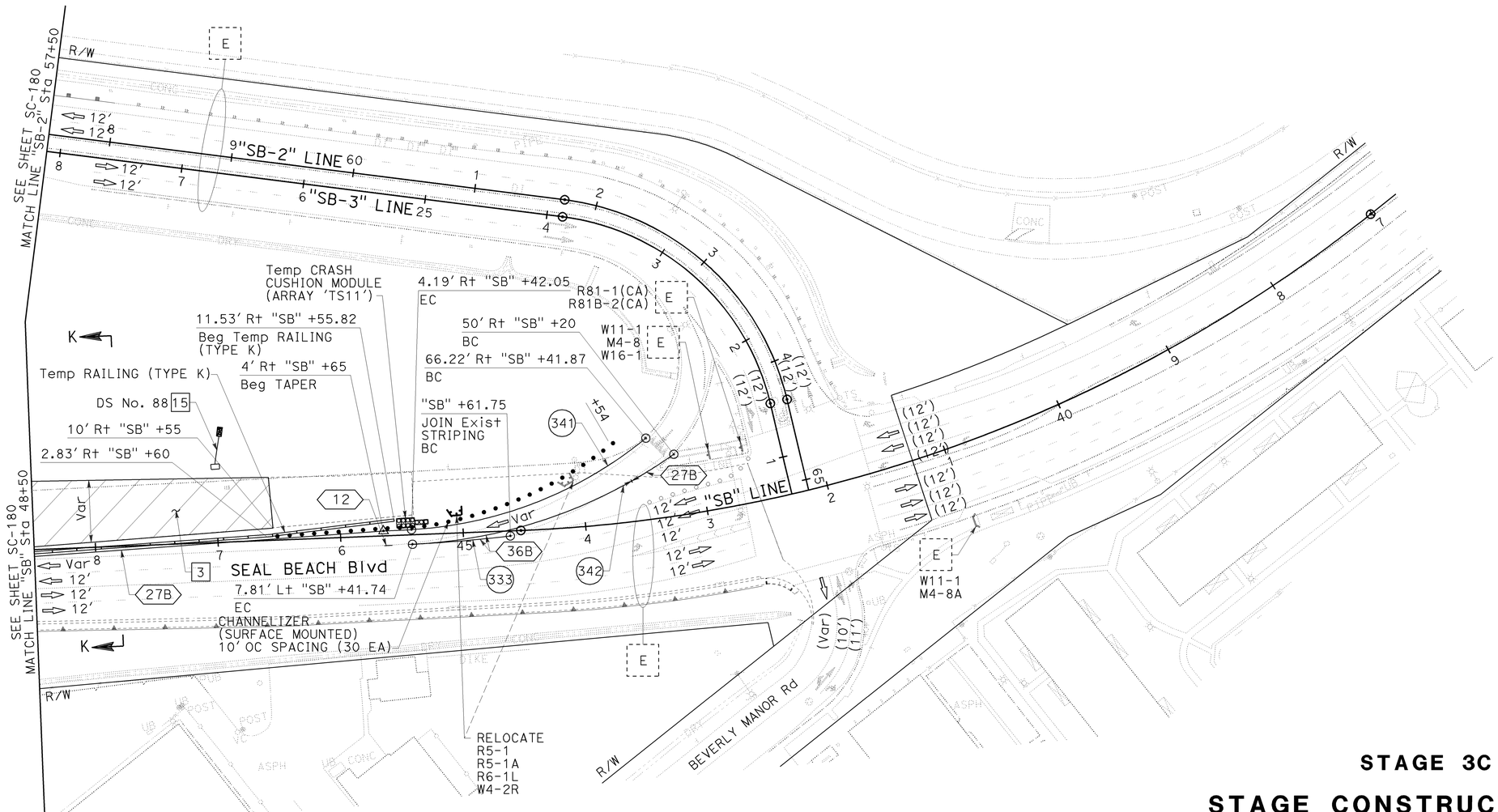
3 Const REMAINDER OF SEAL BEACH Blvd IMPROVEMENTS.

15 Const DRAINAGE SYSTEM. SEE DRAINAGE PLANS.

CURVE DATA				
No.	R	Δ	T	L
333	1,386.00′	03°18′39"	40.06′	80.09′
341	330.00′	36°12′04"	107.86′	208.50′
342	400.00′	32°43′22"	117.43′	228.45′



SECTION K-K
NO SCALE



THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 3C

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-195

LAST REVISION 08-10-09 | DATE PLOTTED => 03-FEB-2010 | TIME PLOTTED => 13:55

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
KELSIE ANDERSON	JULIET SU	KLA	12/22/09

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmnguye | DGN FILE => c07163ma195.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	803	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
PLANS APPROVAL DATE

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16795 VON KARMAN AVE
SUITE 205
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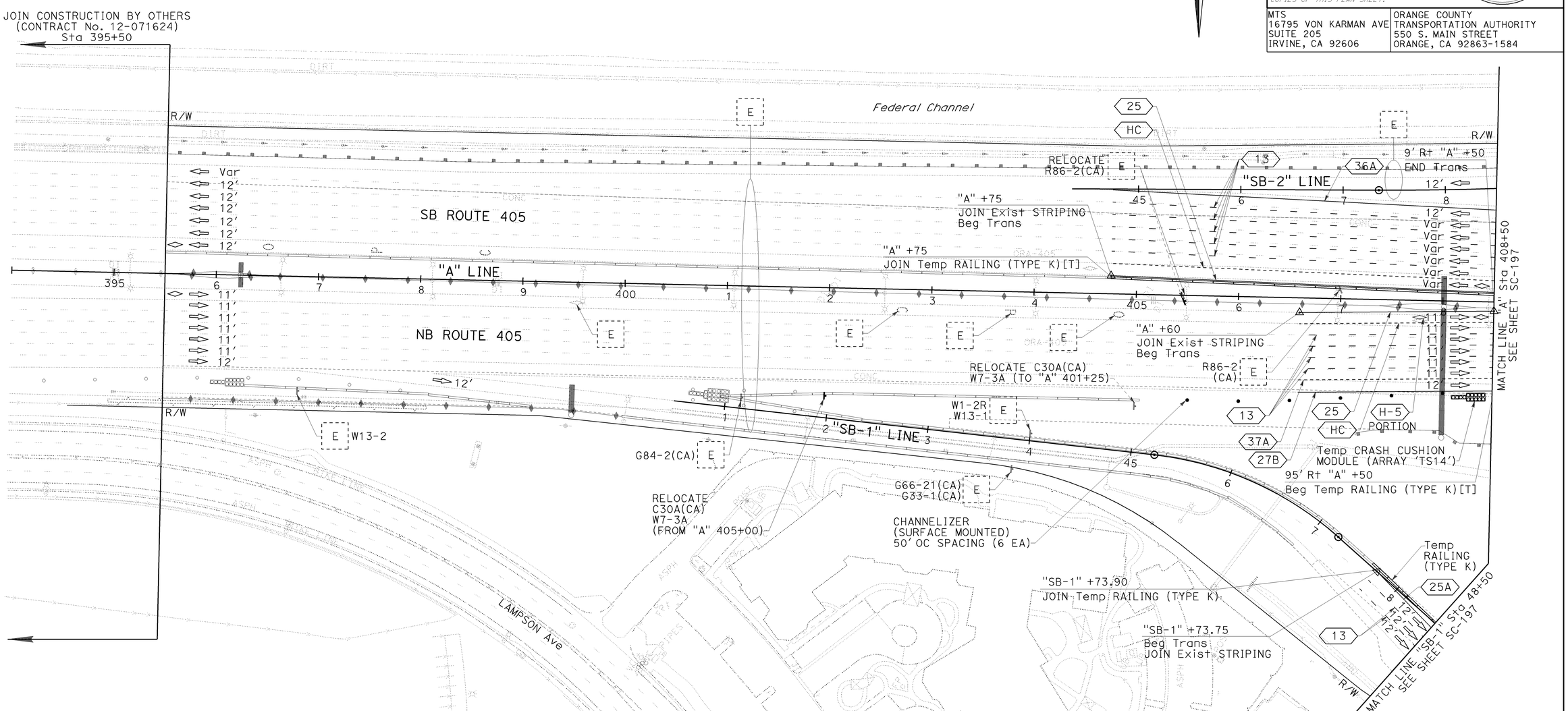
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



STAGE 3D.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-196

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
KELSIE ANDERSON	JULIET SU	KLA	12/22/09

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 08-10-09 | DATE PLOTTED => 14-APR-2010 | TIME PLOTTED => 13:12

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trlenard | DGN FILE => c07163ma196.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	804	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

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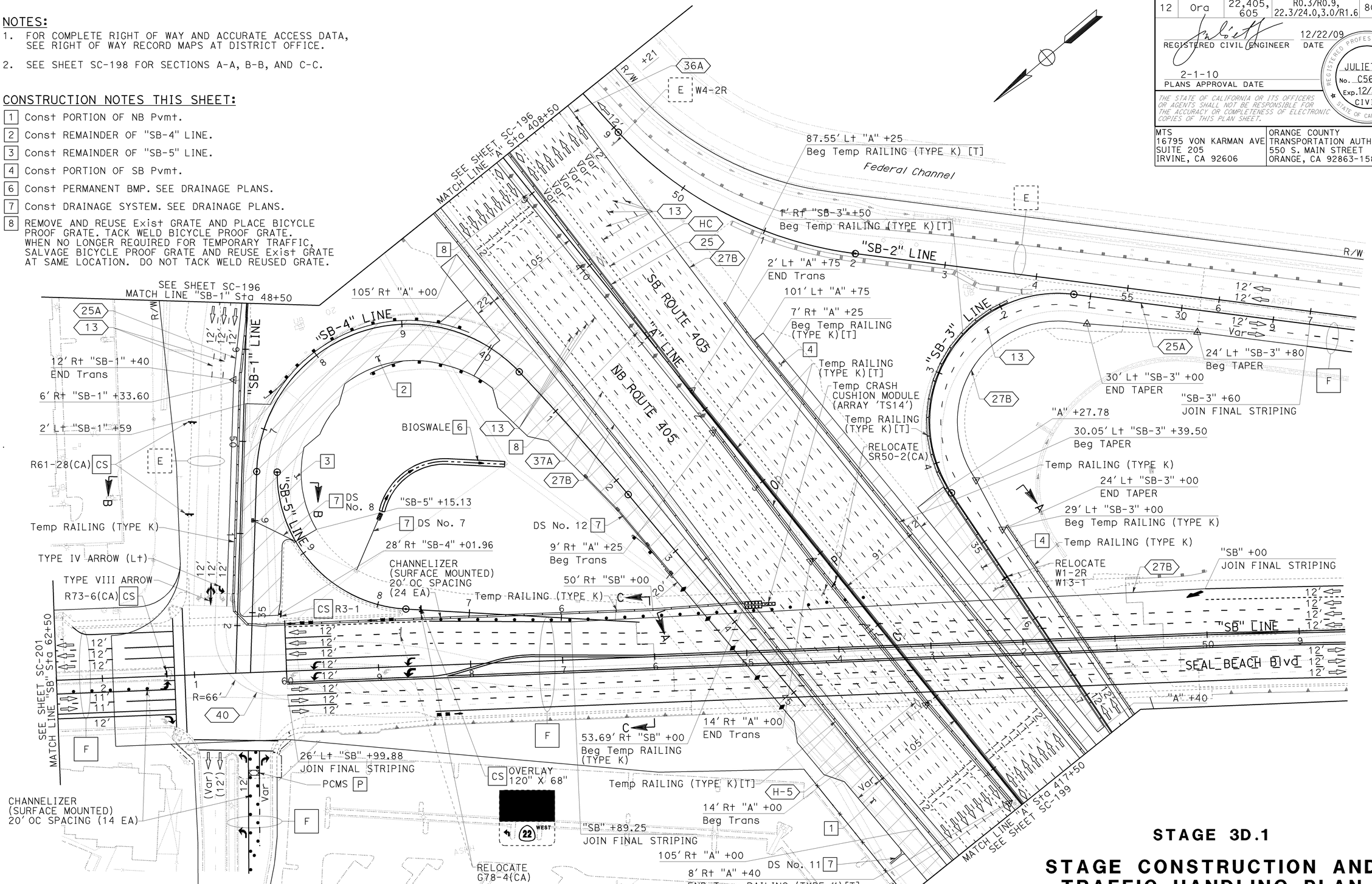
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. SEE SHEET SC-198 FOR SECTIONS A-A, B-B, AND C-C.

CONSTRUCTION NOTES THIS SHEET:

1. Const PORTION OF NB Pvmt.
2. Const REMAINDER OF "SB-4" LINE.
3. Const REMAINDER OF "SB-5" LINE.
4. Const PORTION OF SB Pvmt.
6. Const PERMANENT BMP. SEE DRAINAGE PLANS.
7. Const DRAINAGE SYSTEM. SEE DRAINAGE PLANS.
8. REMOVE AND REUSE Exist GRATE AND PLACE BICYCLE PROOF GRATE. TACK WELD BICYCLE PROOF GRATE. WHEN NO LONGER REQUIRED FOR TEMPORARY TRAFFIC, SALVAGE BICYCLE PROOF GRATE AND REUSE Exist GRATE AT SAME LOCATION. DO NOT TACK WELD REUSED GRATE.



STAGE 3D.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-197

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

LAST REVISION: DATE PLOTTED => 04-FEB-2010 08-10-09 TIME PLOTTED => 14:33

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

CALCULATED-DESIGNED BY: KELSIE ANDERSON

CHECKED BY: JULIET SU

DRAWN BY: KLA

REVISED BY

DATE REVISED: 12/22/09

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmnguye
DGN FILE => c07163ma197.dgn

CU 12235

EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	805	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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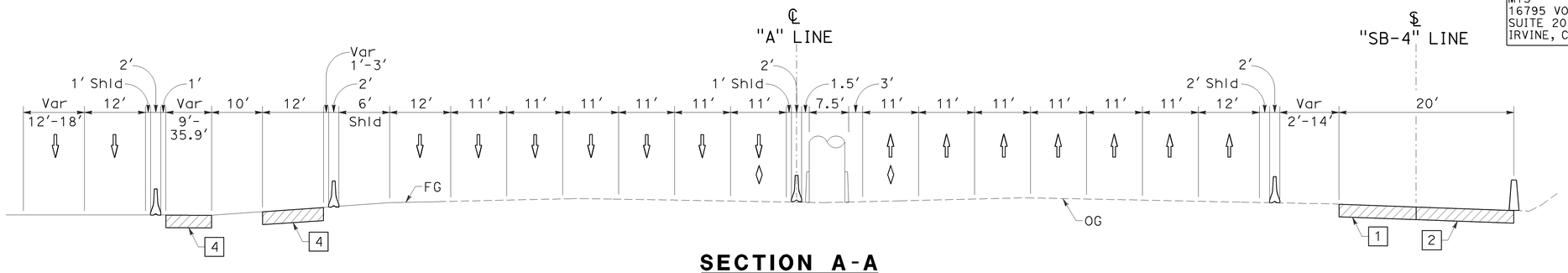
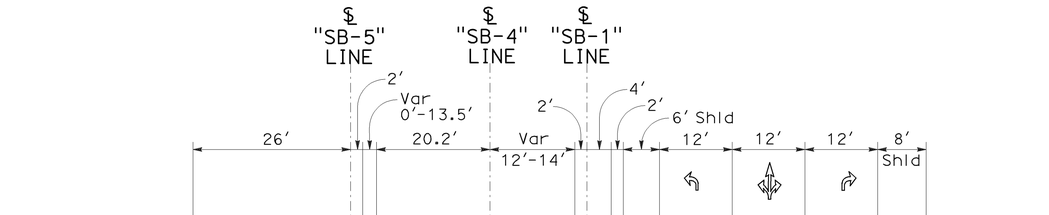
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

CONSTRUCTION NOTES THIS SHEET:

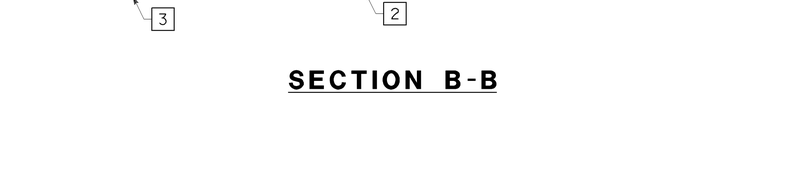
1 Const REMAINDER OF NB Pvmt
2 Const REMAINDER OF "SB-4" LINE.
3 Const REMAINDER OF "SB-5" LINE.
4 Const PORTION OF SB Pvmt.



SECTION A-A



SECTION B-B



SECTION C-C

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 3D.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

NO SCALE

SC-198

LAST REVISION 08-10-09 | DATE PLOTTED => 03-FEB-2010 TIME PLOTTED => 13:56

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmnguye DGN FILE => c07163ma198.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	806	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU — No. C56168 — Exp.12/31/10 — CIVIL — STATE OF CALIFORNIA

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SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

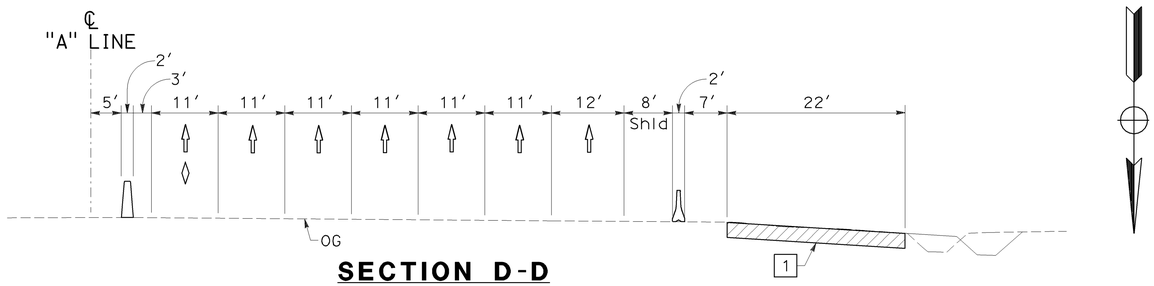
NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

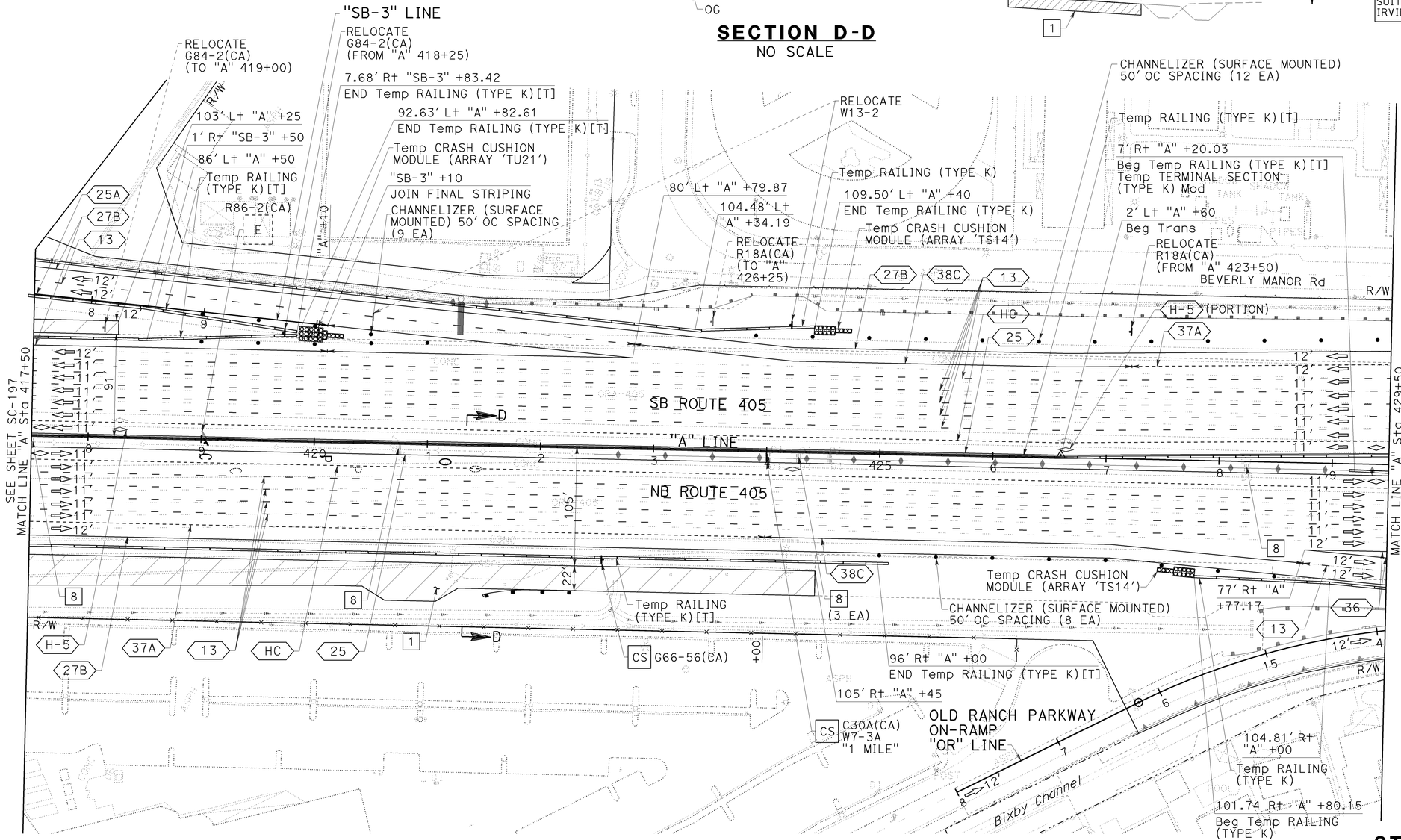
CONSTRUCTION NOTES THIS SHEET:

1 Const PORTION OF NB Pvmt.

8 REMOVE AND REUSE Exist GRATE AND PLACE BICYCLE PROOF GRATE. TACK WELD BICYCLE PROOF GRATE. WHEN NO LONGER REQUIRED FOR TEMPORARY TRAFFIC, SALVAGE BICYCLE PROOF GRATE AND REUSE Exist GRATE AT SAME LOCATION. DO NOT TACK WELD REUSED GRATE.



SECTION D-D
NO SCALE



STAGE 3D.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-199

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 08-10-09
DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:56

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmnguye
DGN FILE => c07163ma199.dgn
CU 12235
EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	807	1929

REGISTERED CIVIL ENGINEER 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JULIET SU No. C56168 Exp. 12/31/10 CIVIL STATE OF CALIFORNIA

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SUITE 205
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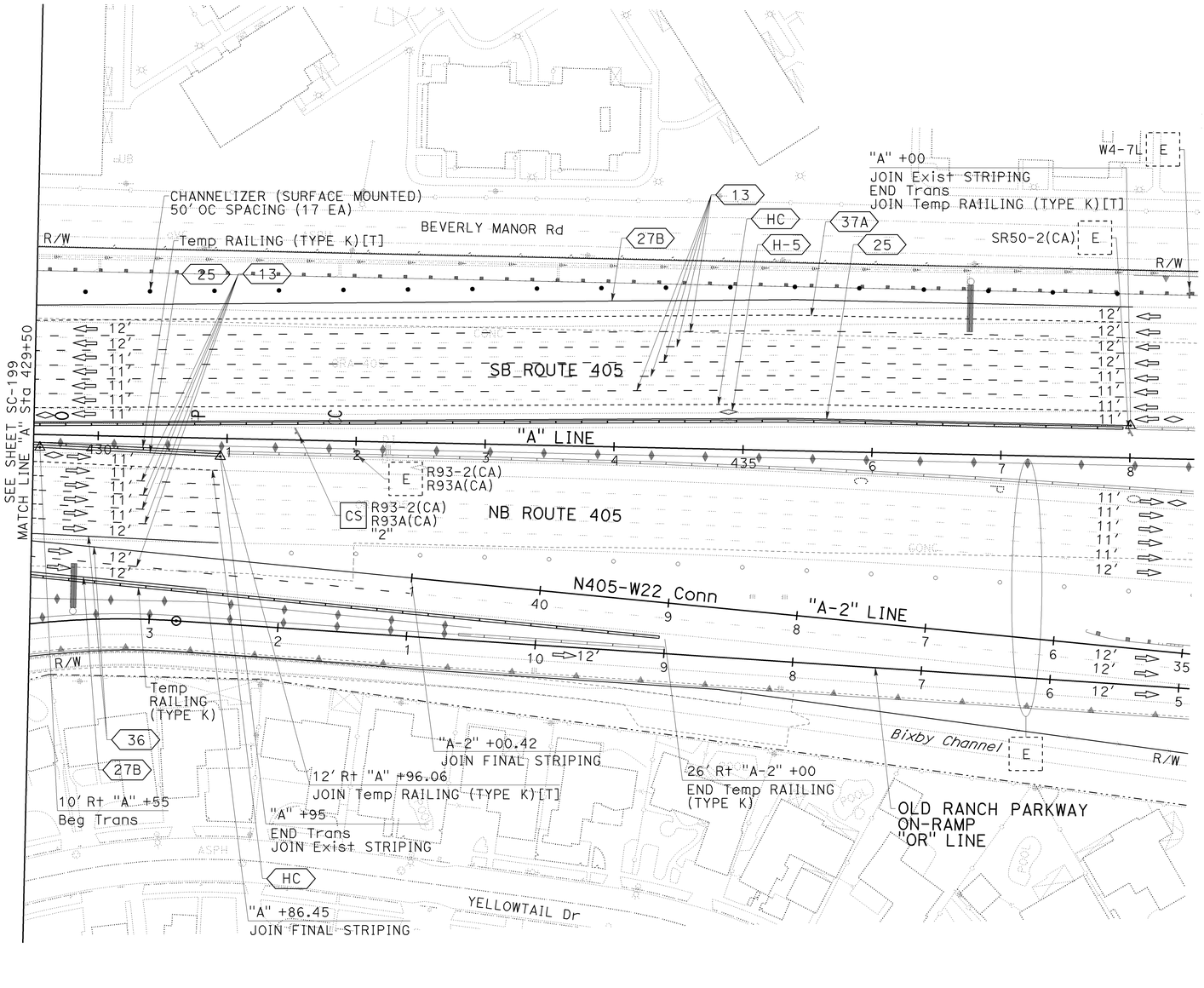
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



STAGE 3D.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-200

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION 08-10-09
DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:56

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmnguye
DGN FILE => c07163ma200.dgn
CU 12235
EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	808	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

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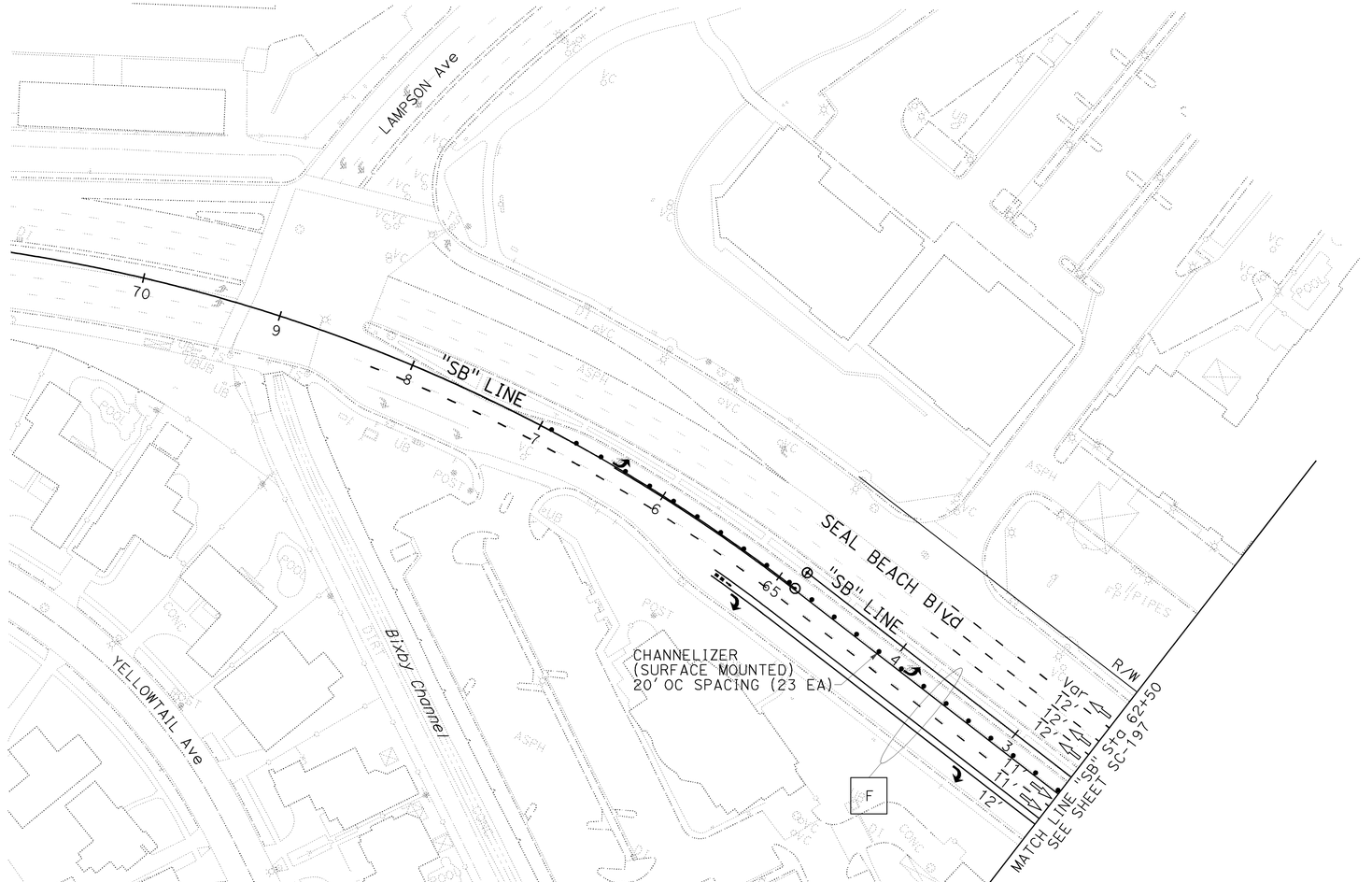
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 3D.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-201

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
KELSIE ANDERSON	JULIET SU	KLA	12/22/09

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR
LEONARD SEQUEIRA

LAST REVISION 08-10-09
DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:56

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmnguye
DGN FILE => c07163ma201.dgn

CU 12235

EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	809	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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ORANGE COUNTY
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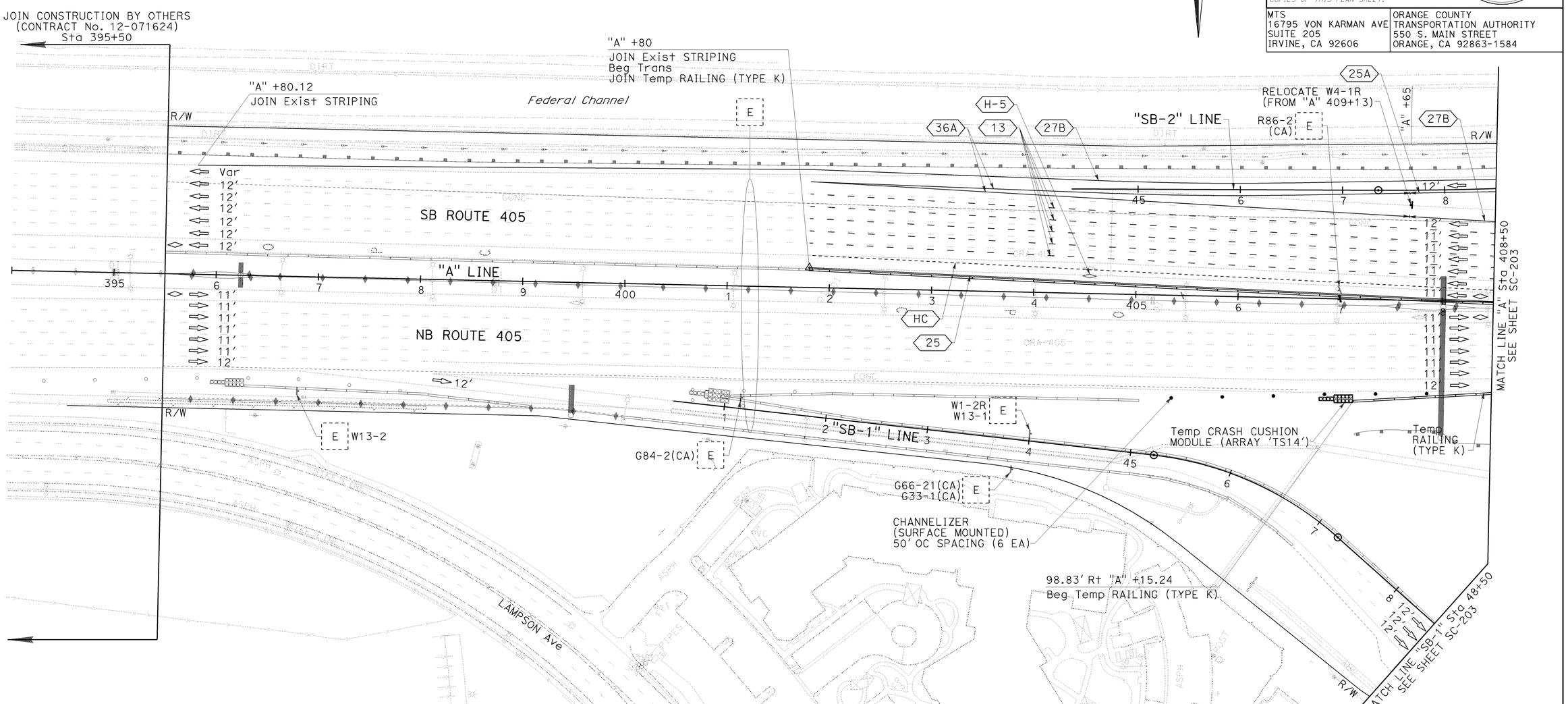
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



STAGE 3D.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-202

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION: DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 13:56

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmnguye | DGN FILE => c07163ma202.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	810	1929

REGISTERED CIVIL ENGINEER 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JULIET SU No. C56168 Exp. 12/31/10 CIVIL STATE OF CALIFORNIA

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SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

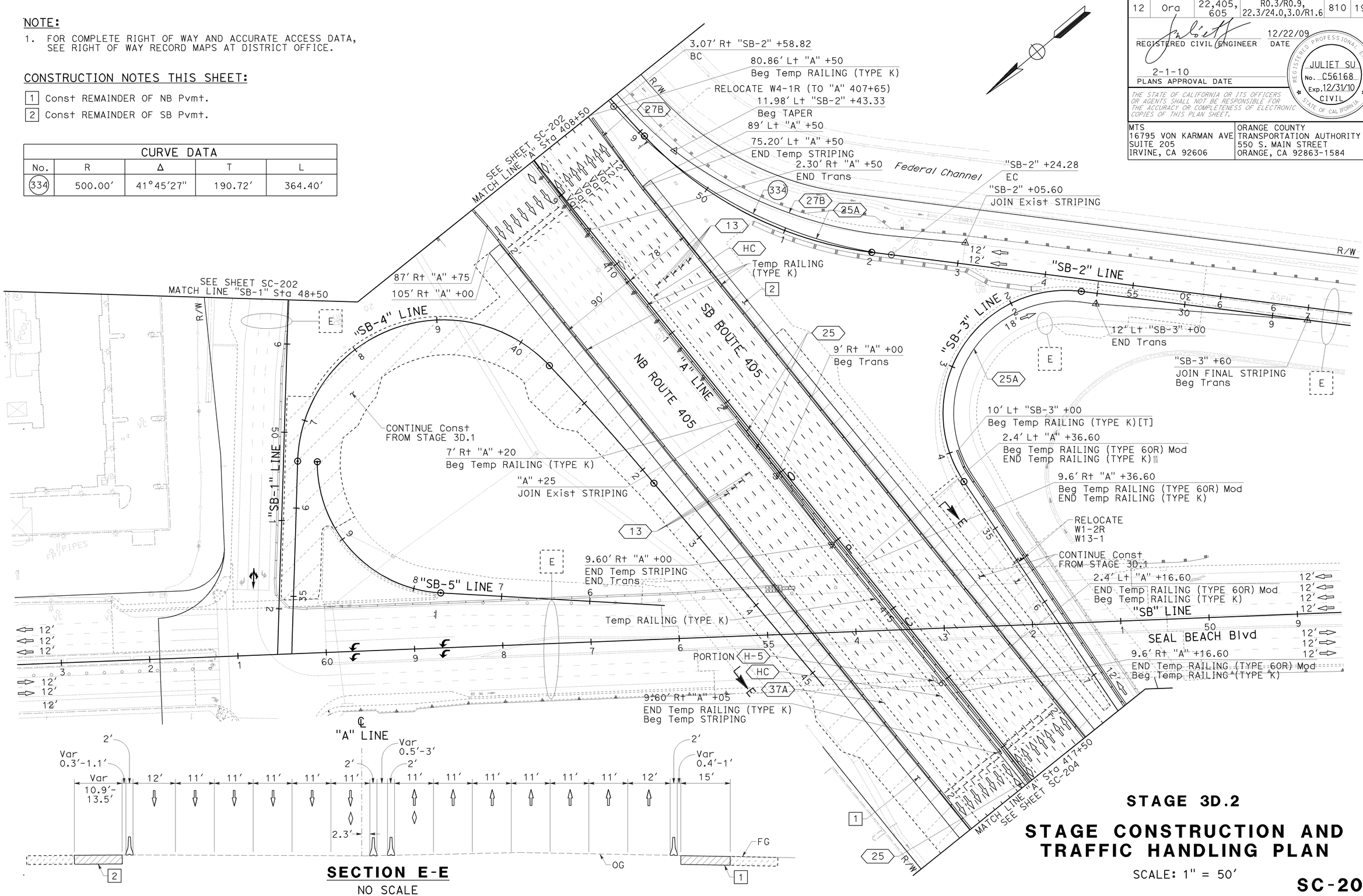
1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTES THIS SHEET:

1 Const REMAINDER OF NB Pvmt.
2 Const REMAINDER OF SB Pvmt.

CURVE DATA

No.	R	Δ	T	L
334	500.00′	41°45′27″	190.72′	364.40′



SECTION E-E
NO SCALE

STAGE 3D.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-203

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION 08-10-09
DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:56

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	811	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
PLANS APPROVAL DATE

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SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

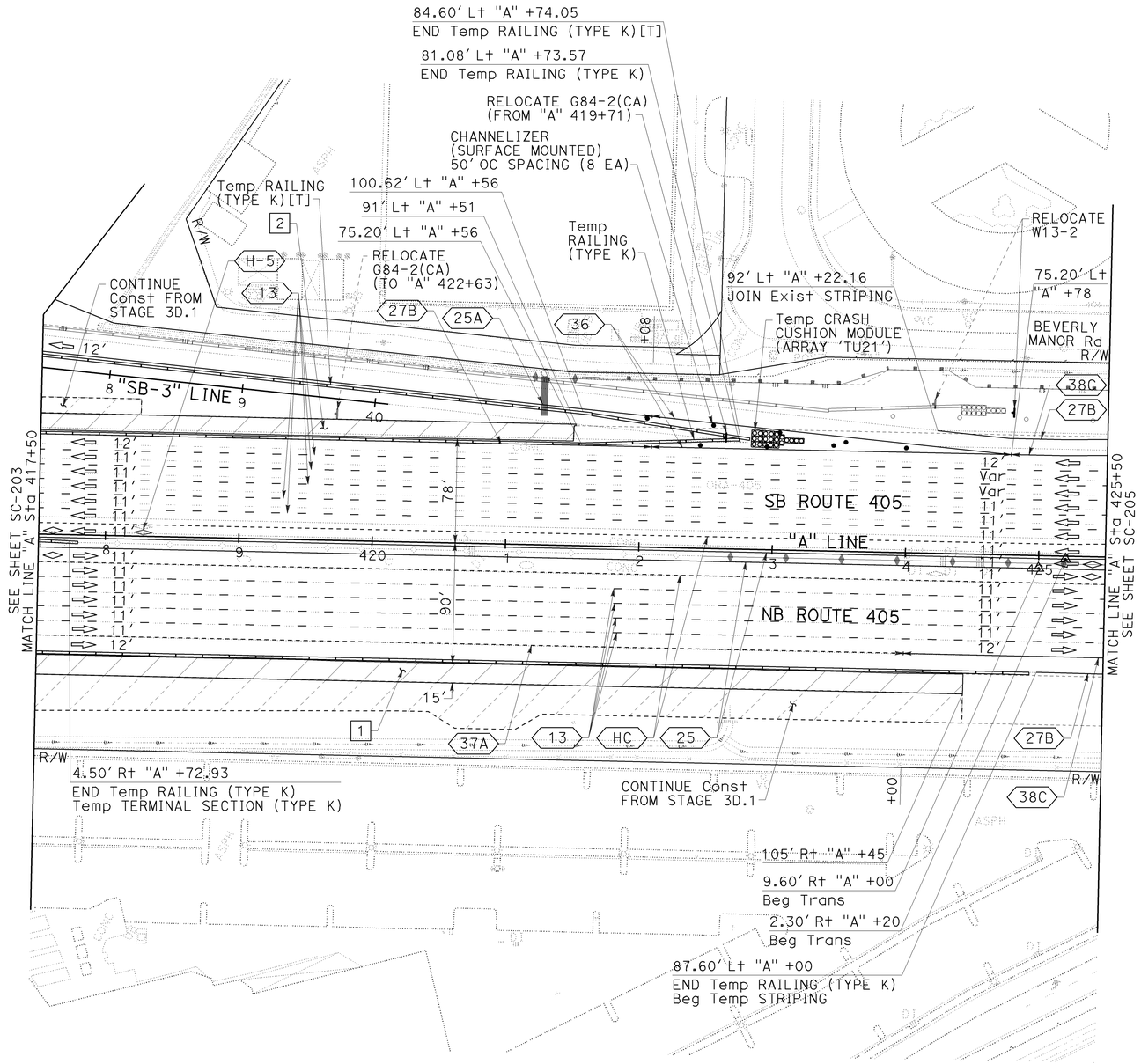
NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTES THIS SHEET:

1 Const REMAINDER OF NB Pvmt.

2 Const REMAINDER OF SB Pvmt.



STAGE 3D.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-204

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:56
08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmnguye | DGN FILE => c07163ma204.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	812	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

MTS
16795 VON KARMAN AVE
SUITE 205
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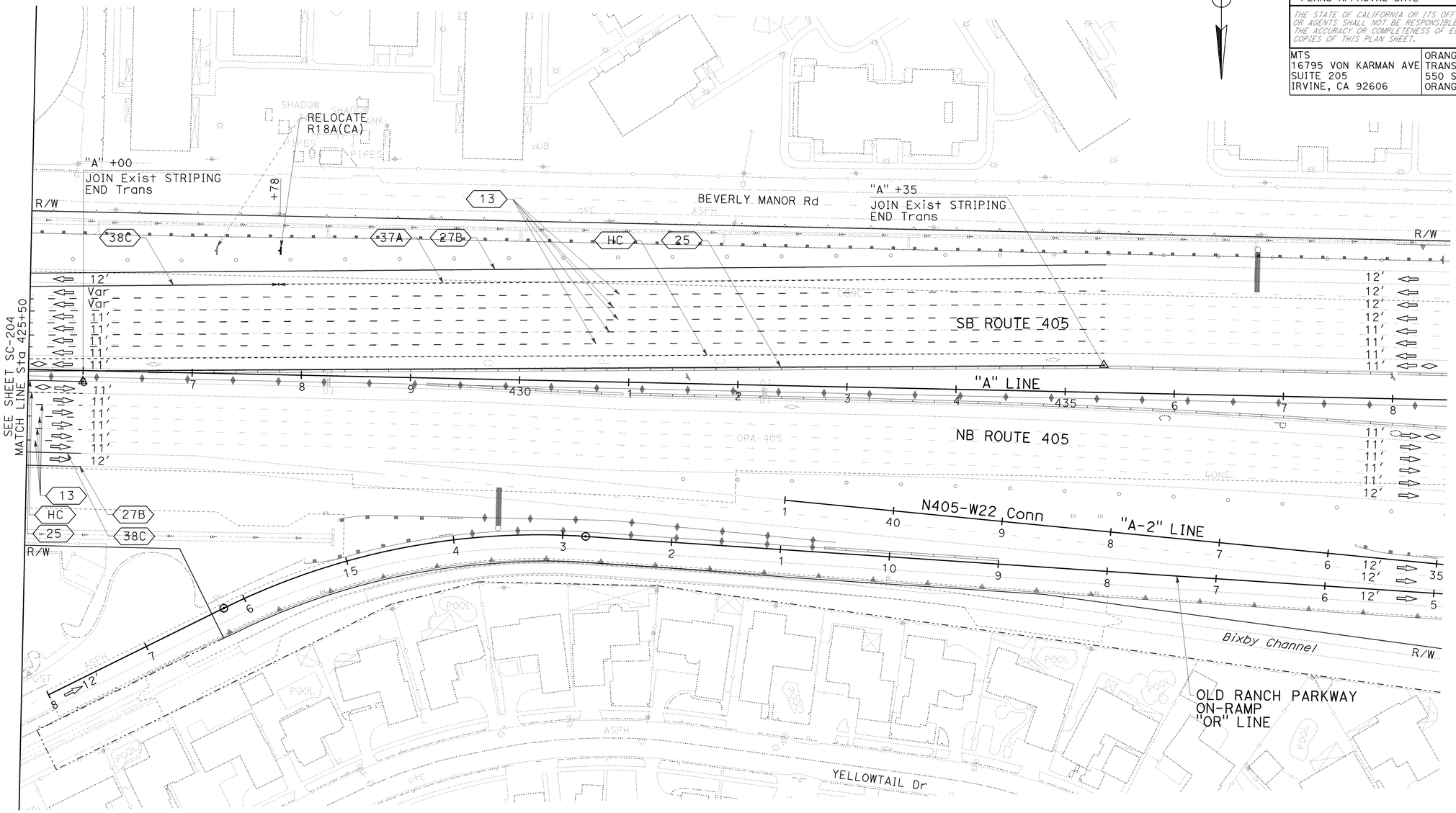
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



STAGE 3D.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-205

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY	CHECKED BY
KELSIE ANDERSON	JULIET SU

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 08-10-09 | DATE PLOTTED => 03-FEB-2010 | TIME PLOTTED => 13:56

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmnguye | DGN FILE => c07163ma205.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	813	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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SUITE 205
IRVINE, CA 92606

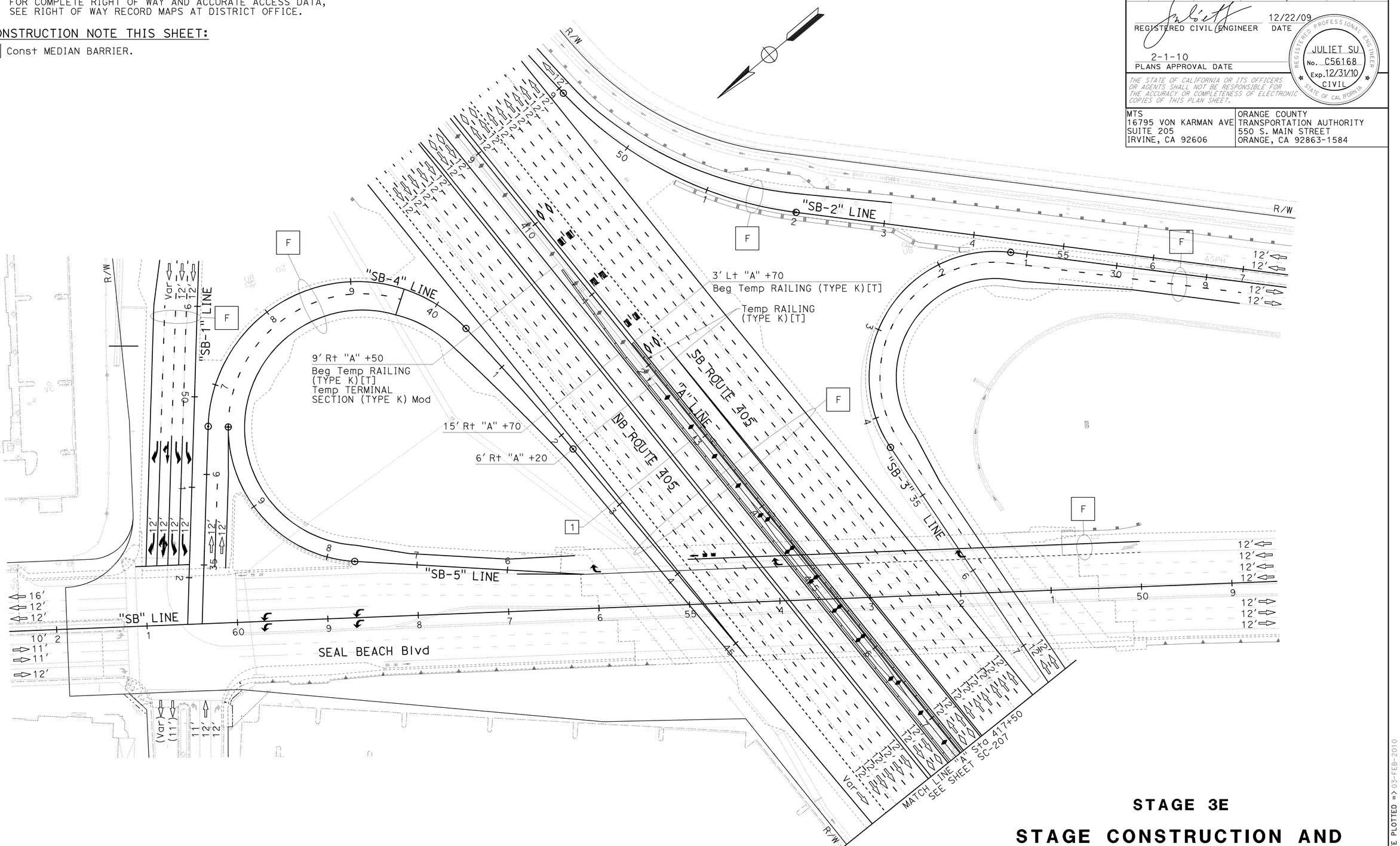
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1: FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTE THIS SHEET:

1 Const MEDIAN BARRIER.



STAGE 3E

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-206

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

CALCULATED-DESIGNED BY	KELSIE ANDERSON	REVISED BY	KLA
CHECKED BY	JULIET SU	DATE REVISED	12/22/09
CONSULTANT FUNCTIONAL SUPERVISOR	LEONARD SEQUEIRA		
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans		

LAST REVISION | DATE PLOTTED => 03-FEB-2010
08-10-09 | TIME PLOTTED => 13:57

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmnguye | DGN FILE => c07163ma206.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	814	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

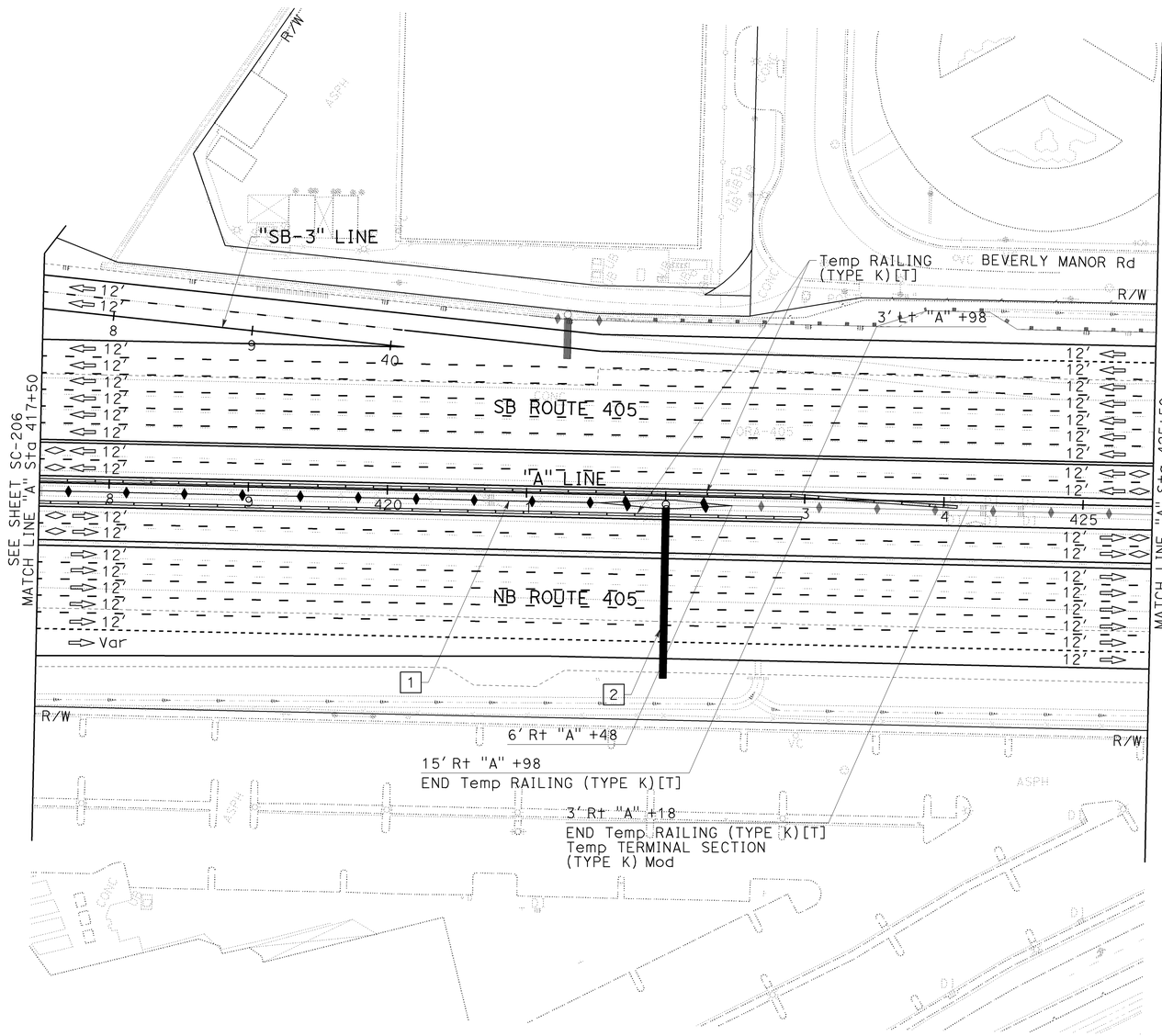
NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTES THIS SHEET:

1 Const MEDIAN BARRIER.

2 Const OH SIGN. SEE SIGN PLANS.



STAGE 3E

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-207

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

KELSIE ANDERSON
JULIET SU

CALCULATED-DESIGNED BY
CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR
LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:57
08-10-09

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	815	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

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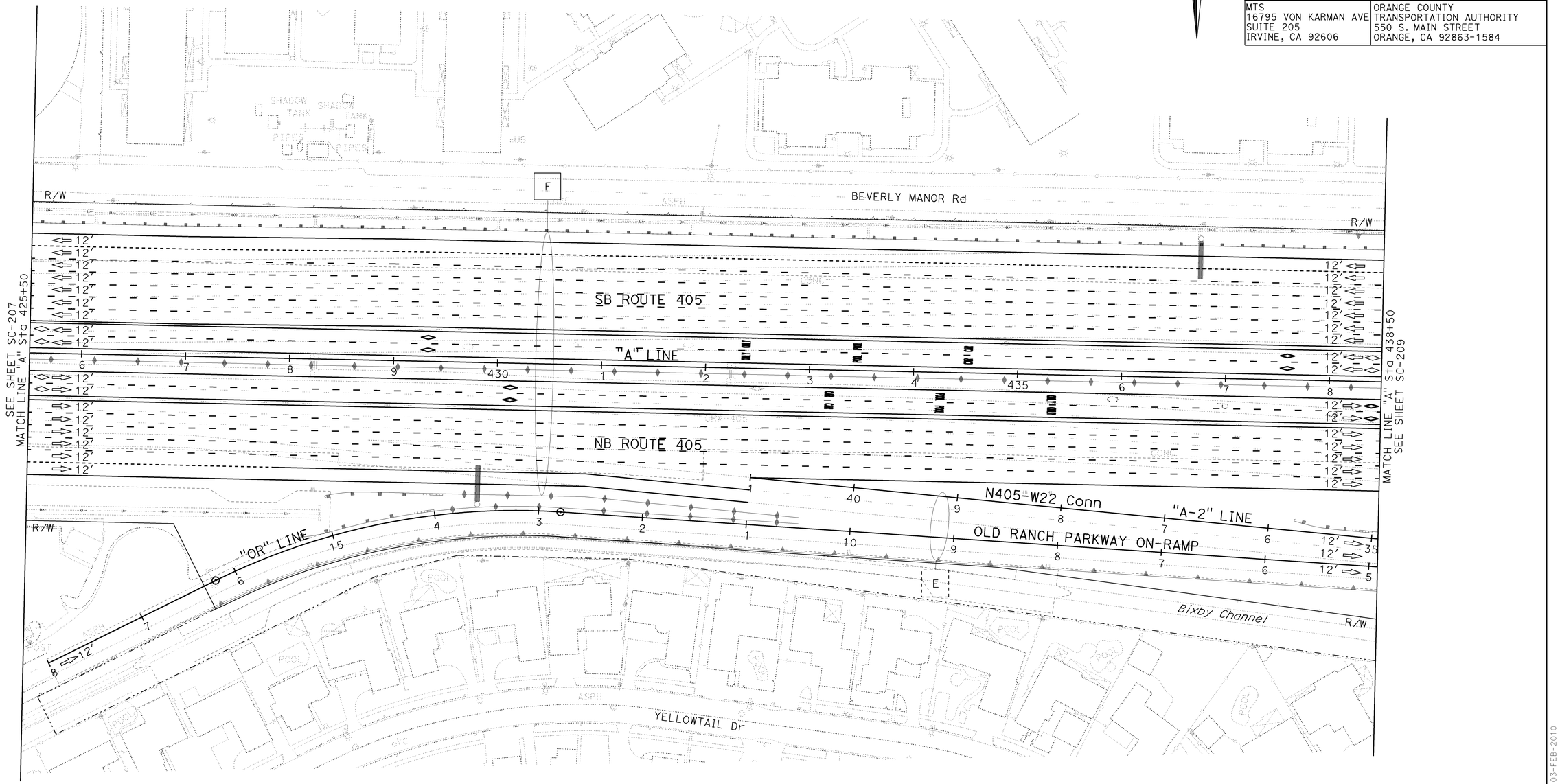
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584



STAGE 3E

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-208

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	KLA	
DATE REVISED	12/22/09	
CALCULATED-DESIGNED BY	KELSIE ANDERSON	
CHECKED BY	JULIET SU	
CONSULTANT FUNCTIONAL SUPERVISOR	LEONARD SEQUEIRA	
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans	

LAST REVISION — DATE PLOTTED => 03-FEB-2010 — TIME PLOTTED => 13:57 — 08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmnguye | DGN FILE => c07163ma208.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	816	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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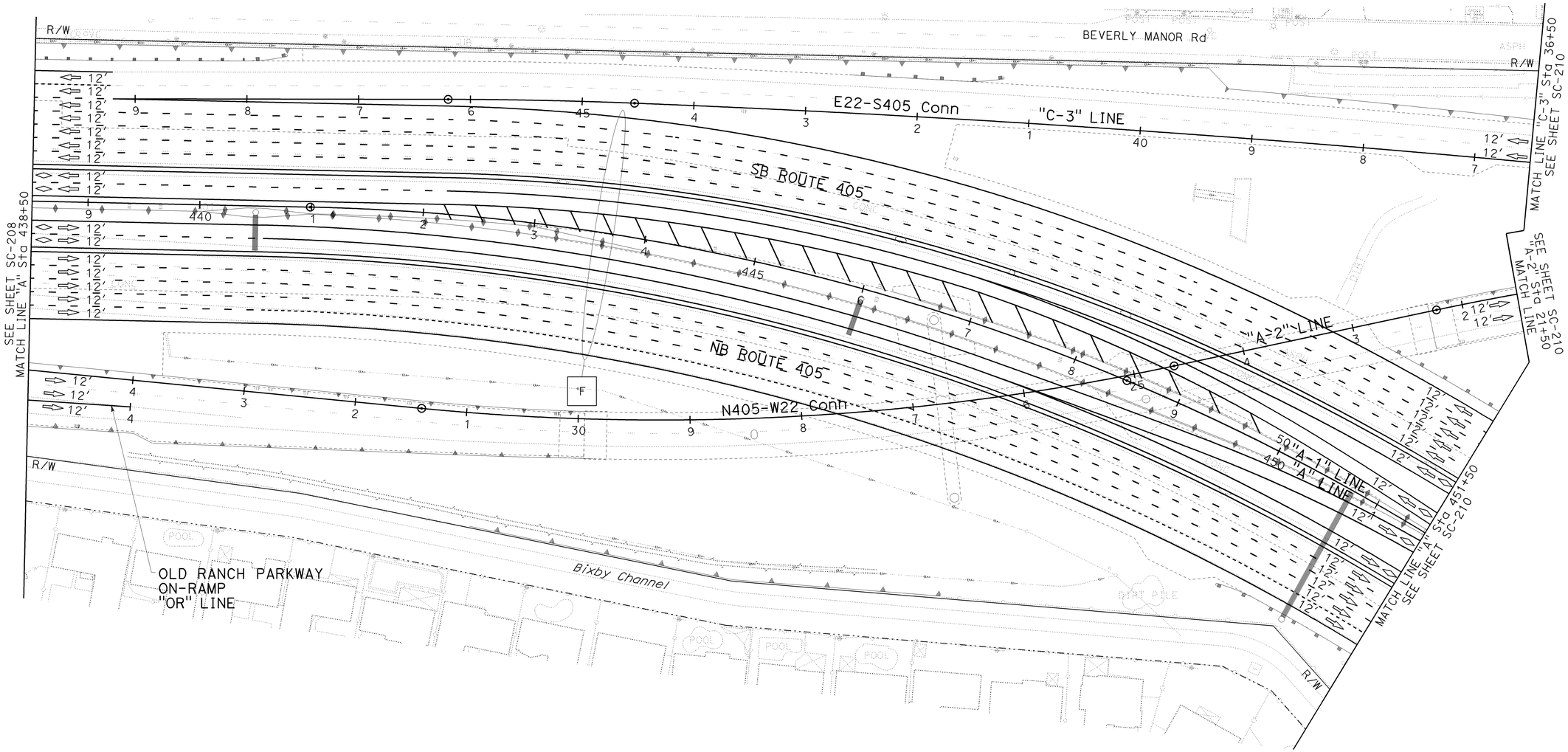
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



STAGE 3E

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-209

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	KLA		
DATE REVISED	12/22/09		
CALCULATED-DESIGNED BY	KELSIE ANDERSON		
CHECKED BY	JULIET SU		
CONSULTANT FUNCTIONAL SUPERVISOR	LEONARD SEQUEIRA		
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans		

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:57
08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmnguye DGN FILE => c07163ma209.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	817	1929

REGISTERED CIVIL ENGINEER 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JULIET SU No. C56168 Exp. 12/31/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

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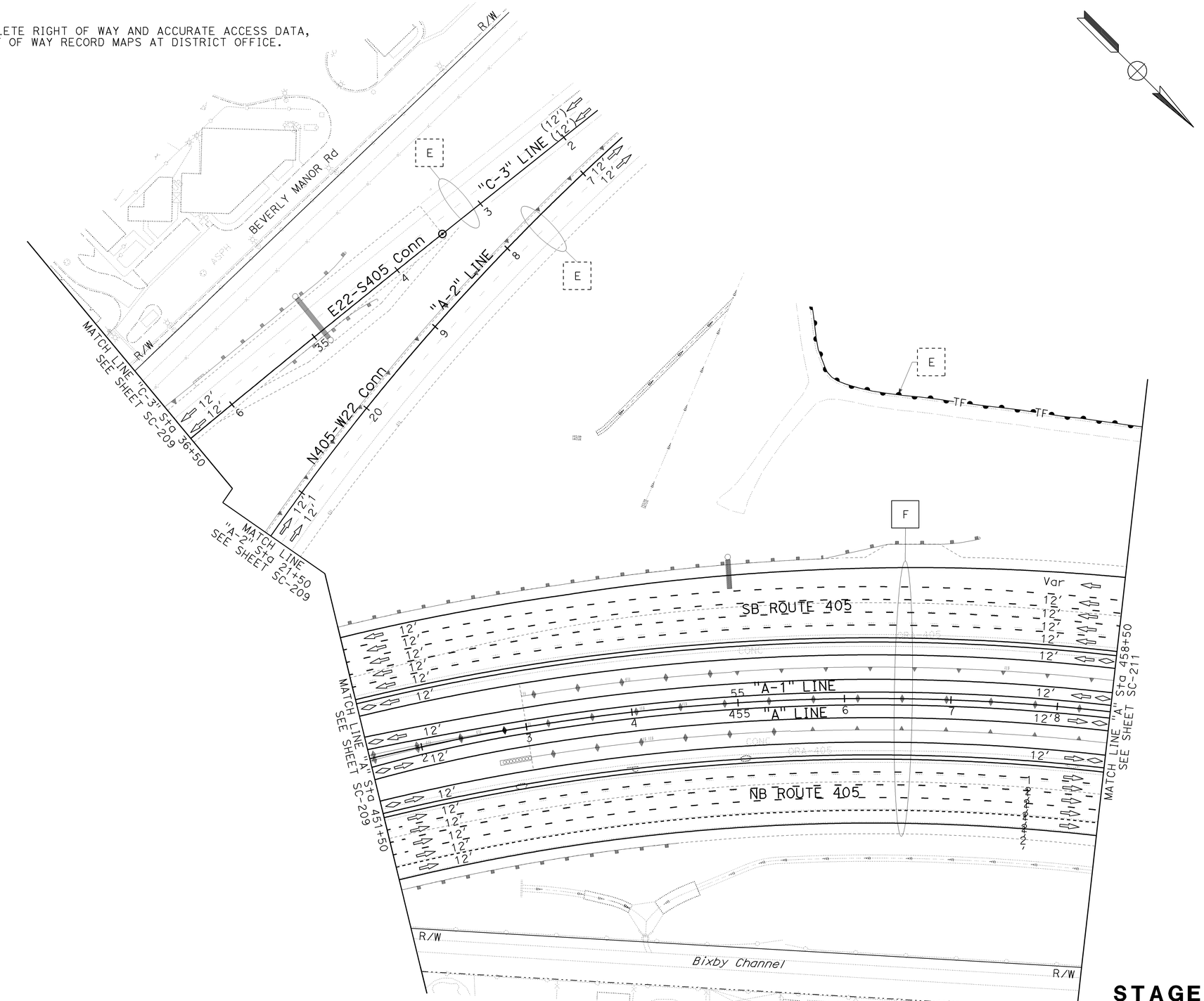
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



STAGE 3E

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-210

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION 08-10-09
DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:57

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	818	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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MTS
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IRVINE, CA 92606

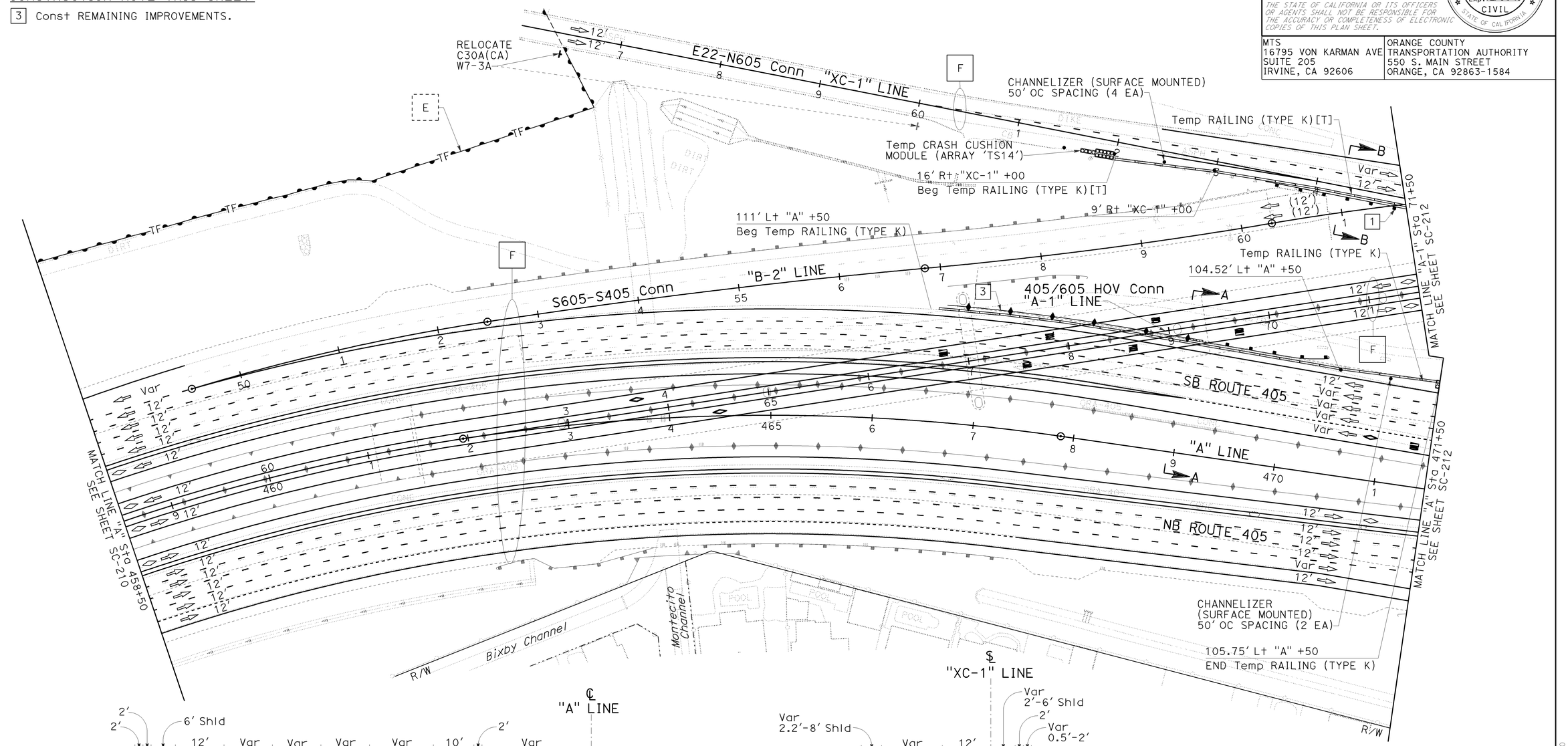
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

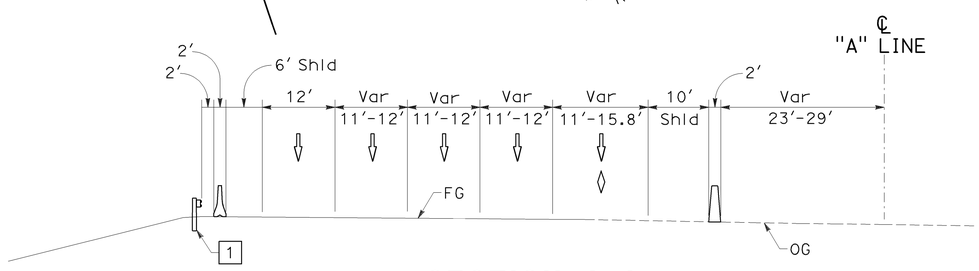
NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

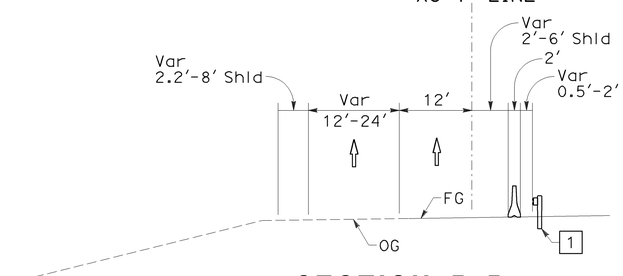
CONSTRUCTION NOTE THIS SHEET:

3 Const REMAINING IMPROVEMENTS.





SECTION A-A
NO SCALE



SECTION B-B
NO SCALE

STAGE 3E

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-211

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:57
08-10-09

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmnguye
DGN FILE => c07163ma211.dgn

CU 12235

EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	819	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

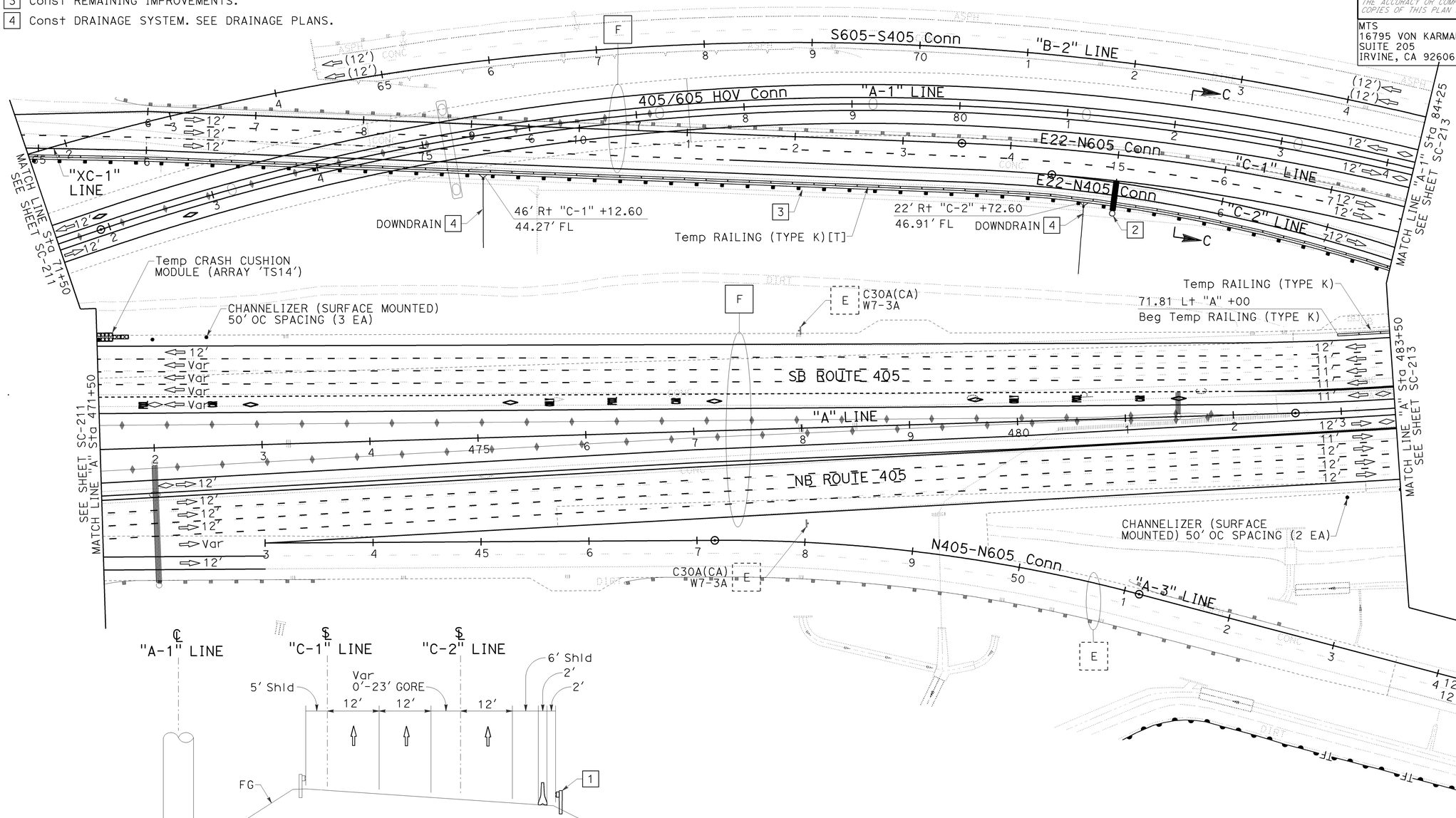
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

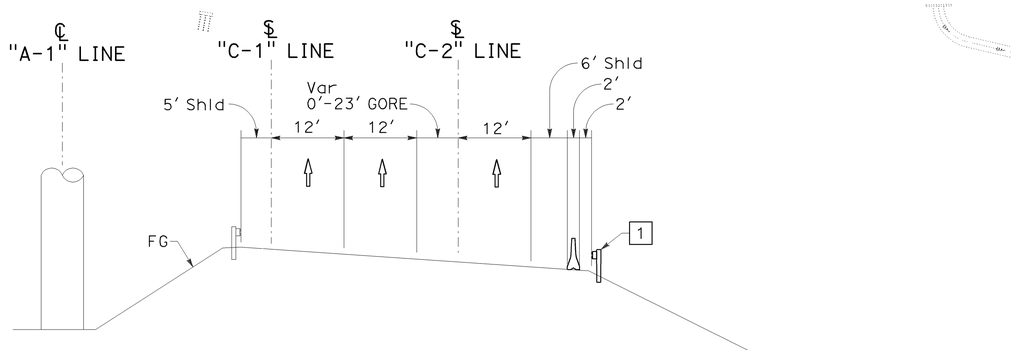
NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTES THIS SHEET:

2 Const OH SIGN. SEE SIGN PLANS.
3 Const REMAINING IMPROVEMENTS.
4 Const DRAINAGE SYSTEM. SEE DRAINAGE PLANS.





SECTION C-C
NO SCALE

STAGE 3E

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-212

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
KELSIE ANDERSON	JULIET SU	KLA	12/22/09

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:57
08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmnguye | DGN FILE => c07163ma212.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	820	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

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SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

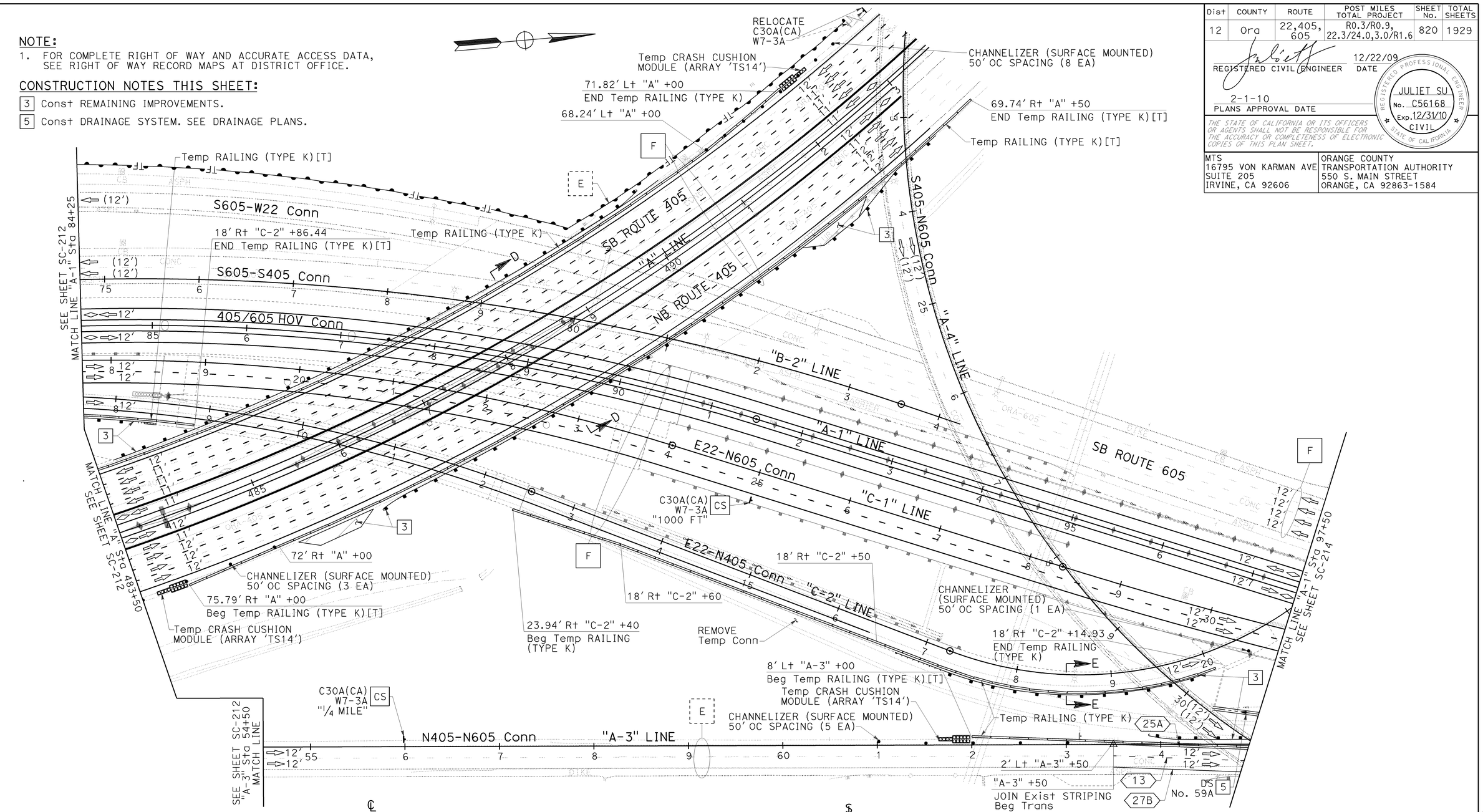
NOTE:

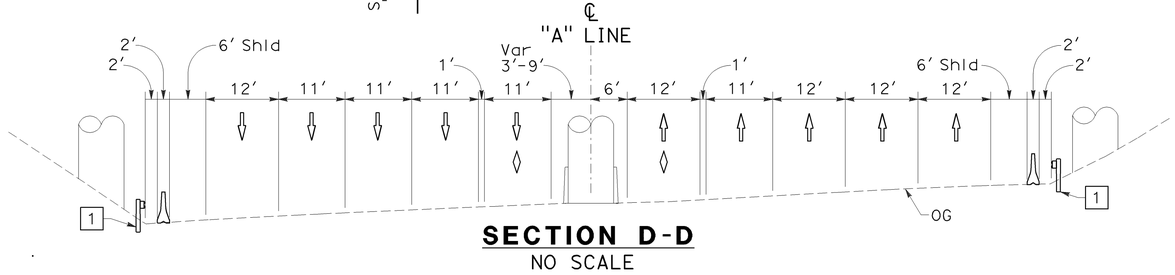
1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTES THIS SHEET:

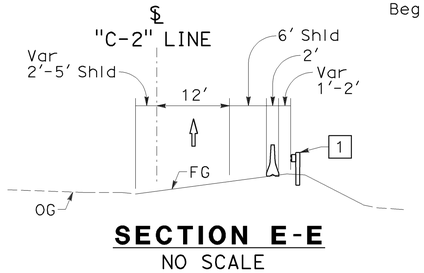
3 Const REMAINING IMPROVEMENTS.

5 Const DRAINAGE SYSTEM. SEE DRAINAGE PLANS.





SECTION D-D
NO SCALE



SECTION E-E
NO SCALE

STAGE 3E

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-213

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:57
08-10-09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmnguye
DGN FILE => c07163ma213.dgn
CU 12235
EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	821	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

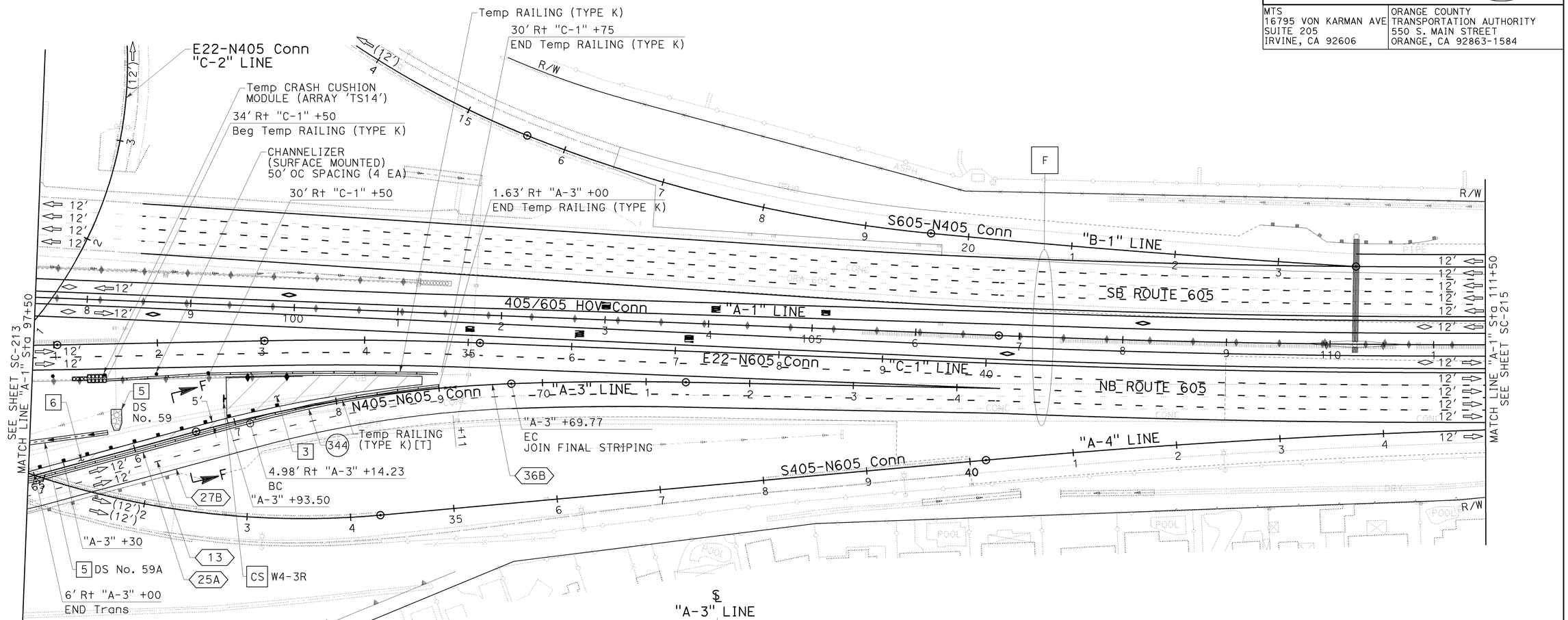
CONSTRUCTION NOTES THIS SHEET:

3 Const REMAINING IMPROVEMENTS.

5 Const DRAINAGE SYSTEM. SEE DRAINAGE PLANS.

6 Const REMAINDER OF "A-3" LINE.

CURVE DATA				
No.	R	Δ	T	L
(344)	1,118.00′	13°04′59"	128.20′	255.29′



SECTION F-F
NO SCALE

STAGE 3E

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50′

SC-214

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION: 08-10-09
DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:58

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	822	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

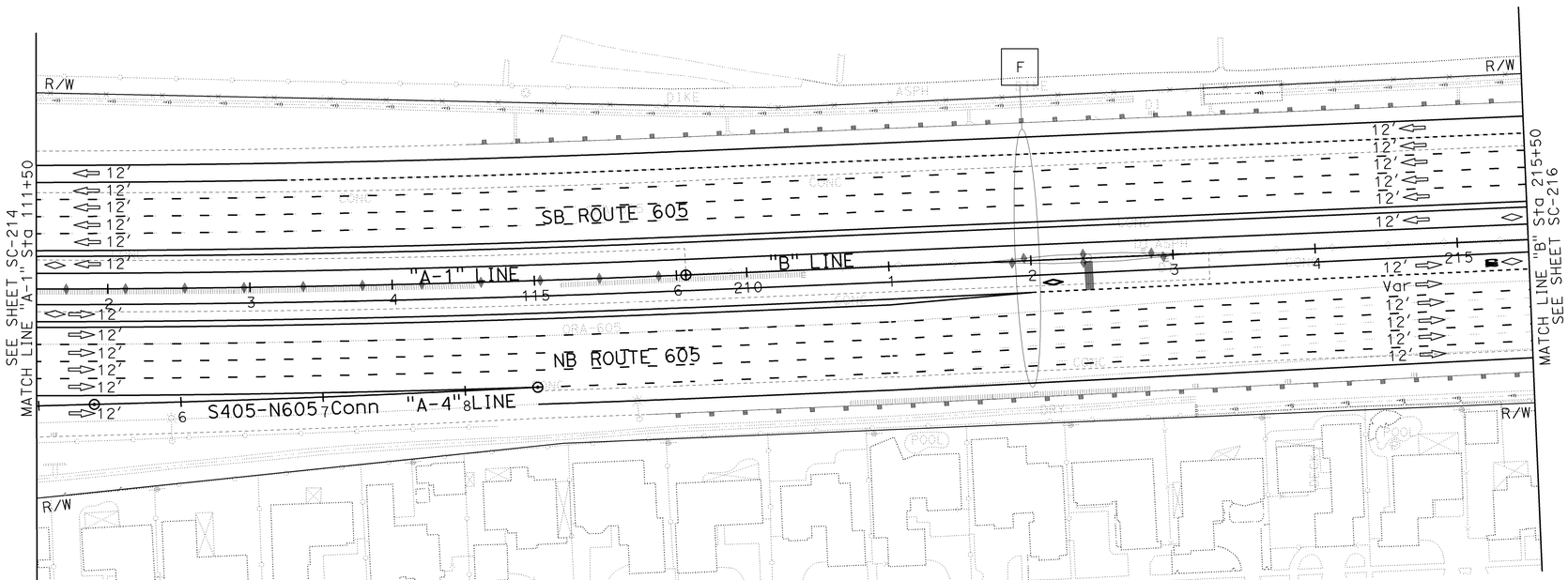
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 3E

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLANS

SCALE: 1" = 50′

SC-215

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:58
08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmnguye | DGN FILE => c07163ma215.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	823	1929

REGISTERED CIVIL ENGINEER 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JULIET SU No. C56168 Exp. 12/31/10 CIVIL STATE OF CALIFORNIA

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550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

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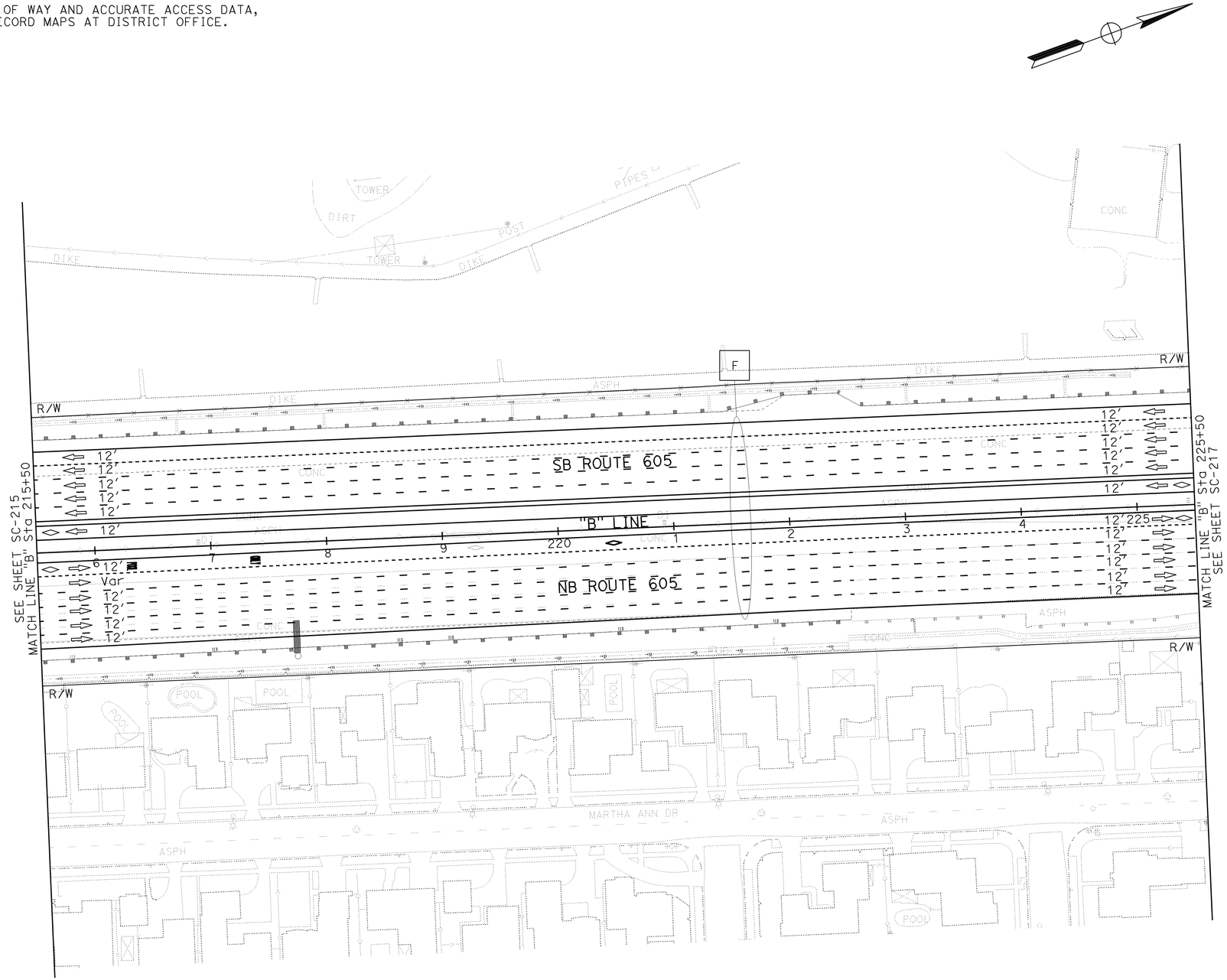

STAGE 3E

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-216

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION 08-10-09
DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:58

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	824	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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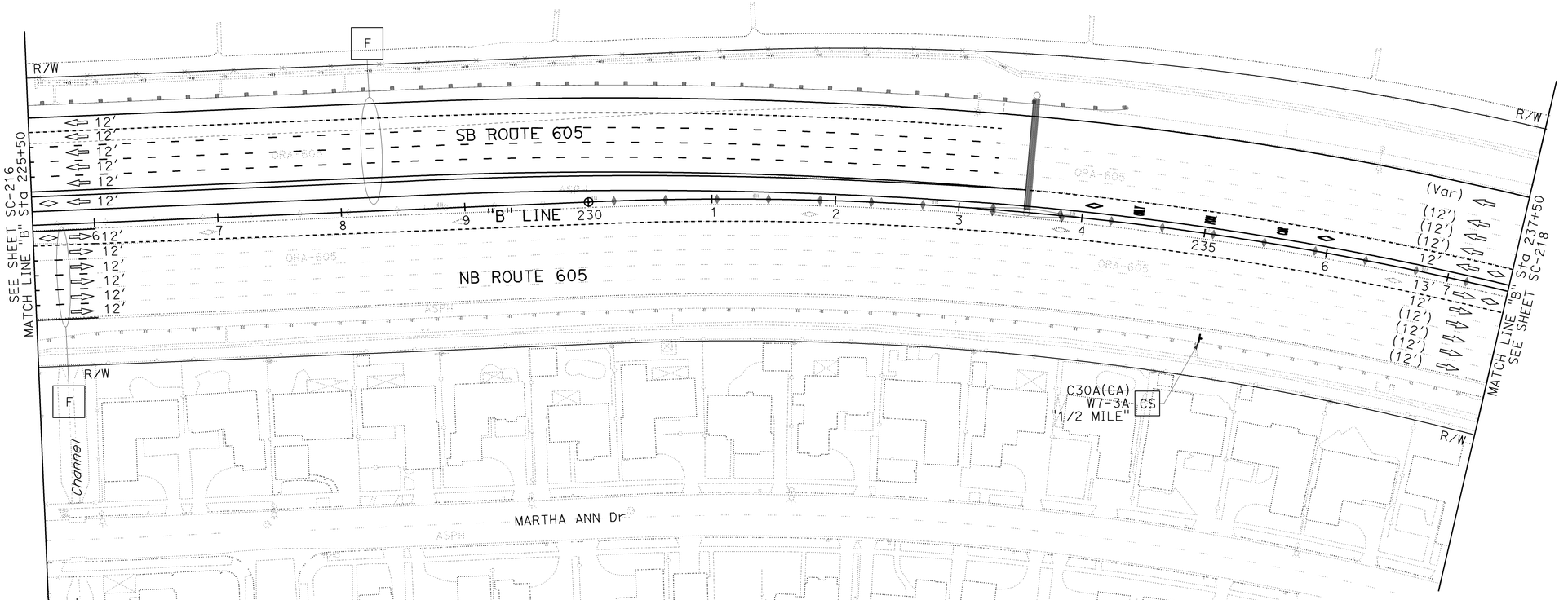

STAGE 3E

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-217

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU

REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
LAST REVISION TIME PLOTTED => 13:58
08-10-09

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmnguye
DGN FILE => c07163ma217.dgn

CU 12235

EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	825	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
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STATE OF CALIFORNIA

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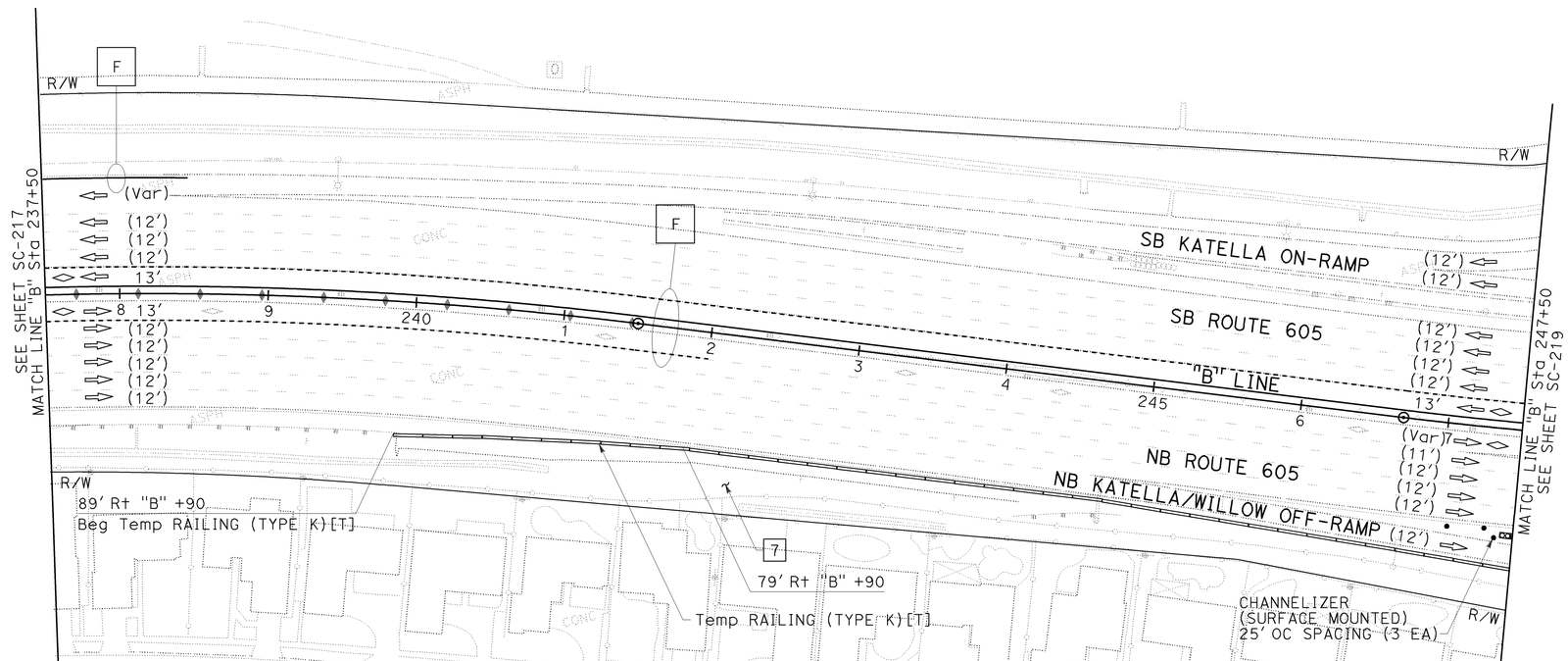
ORANGE, CA 92863-1584

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CONSTRUCTION NOTE THIS SHEET:

7 Const FO LINE. SEE COMMUNICATION SYSTEM PLANS.



STAGE 3E

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-218

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
KELSIE ANDERSON	JULIET SU	KLA	12/22/09

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:58
08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmnguye DGN FILE => c07163ma218.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	826	1929

REGISTERED CIVIL ENGINEER 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JULIET SU No. C56168 Exp. 12/31/10 CIVIL STATE OF CALIFORNIA

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TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

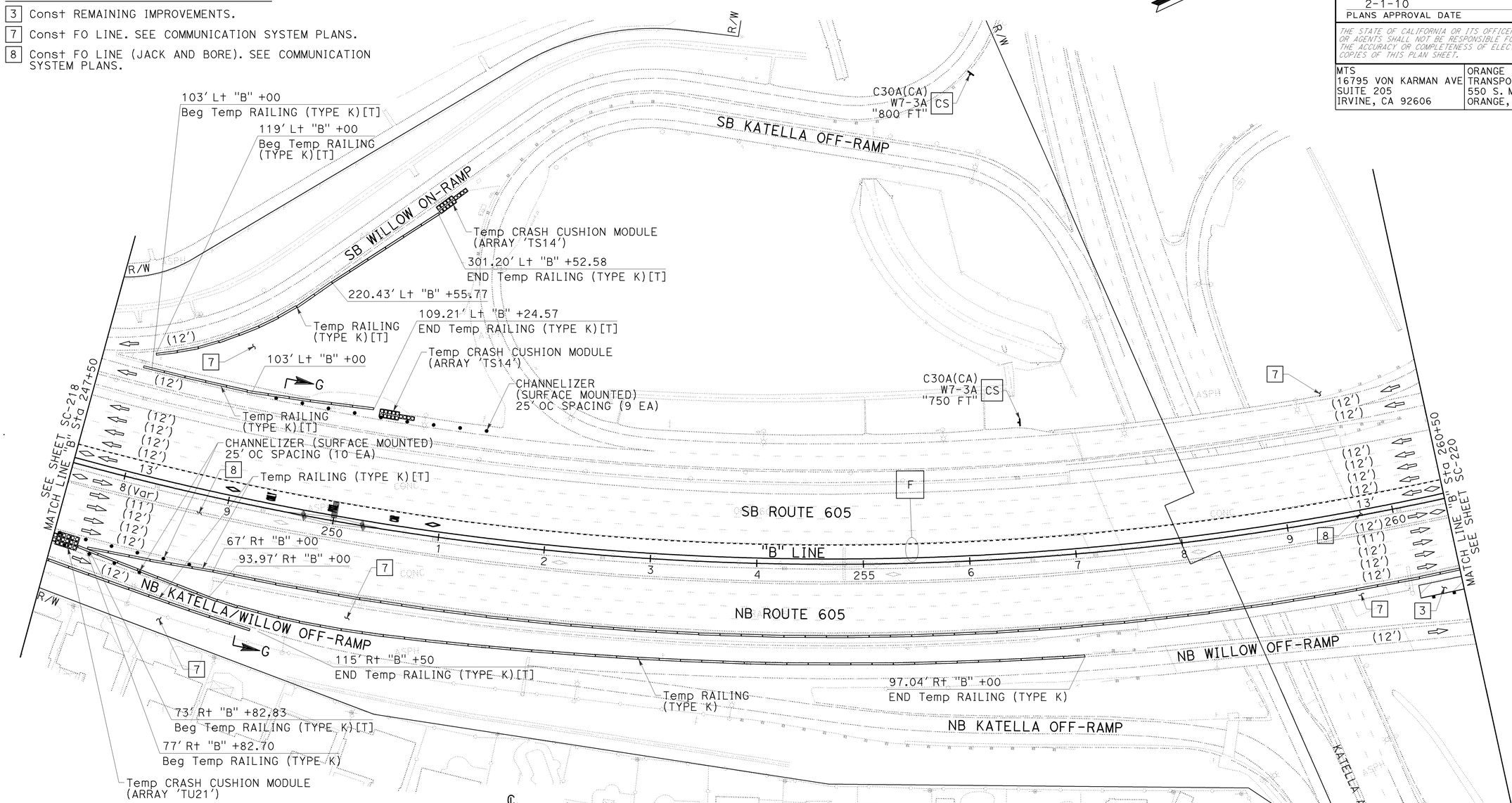
1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

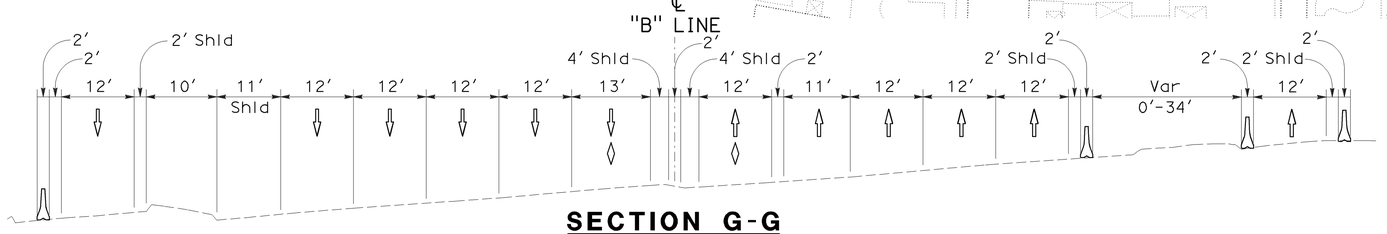
CONSTRUCTION NOTES THIS SHEET:

3 Const REMAINING IMPROVEMENTS.

7 Const FO LINE. SEE COMMUNICATION SYSTEM PLANS.

8 Const FO LINE (JACK AND BORE). SEE COMMUNICATION SYSTEM PLANS.





SECTION G-G
NO SCALE

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 3E

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-219

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION 08-10-09
DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:58

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	827	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
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STATE OF CALIFORNIA

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CONSTRUCTION NOTE THIS SHEET:

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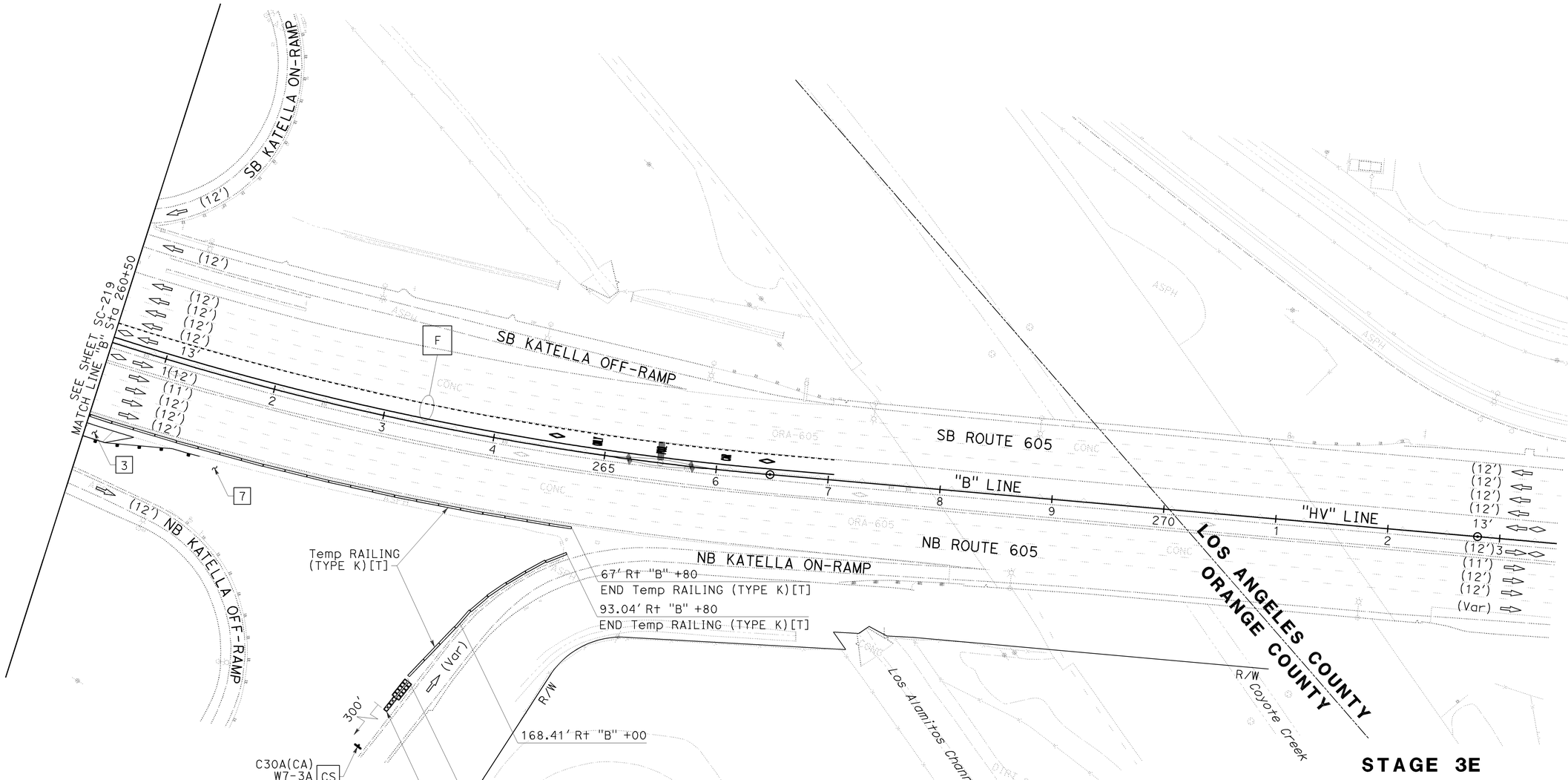
7 Const FO LINE. SEE COMMUNICATION SYSTEM PLANS.



STAGE 3E

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

SC-220

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
KELSIE ANDERSON	JULIET SU	KLA	12/22/09

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION | DATE PLOTTED => 03-FEB-2010
08-10-09 | TIME PLOTTED => 13:58

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmnguye | DGN FILE => c07163ma220.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	828	1929

REGISTERED CIVIL ENGINEER — 8/10/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
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STATE OF CALIFORNIA

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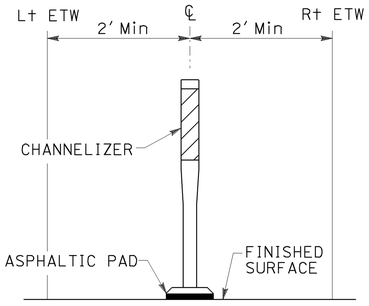
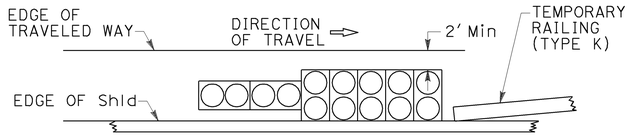


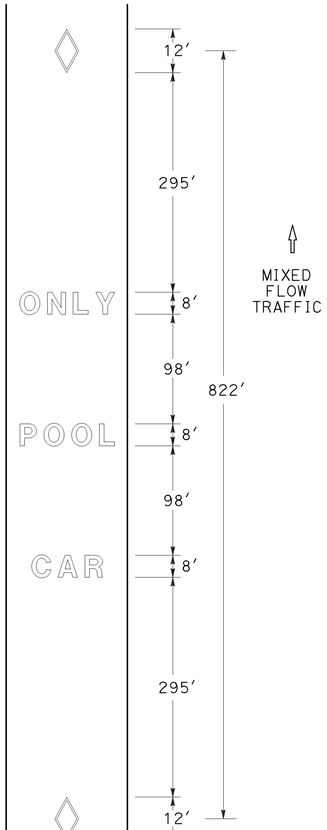
CHANNELIZER (SURFACE MOUNTED)

TYPICAL LEFT AND RIGHT SHOULDER INSTALLATION



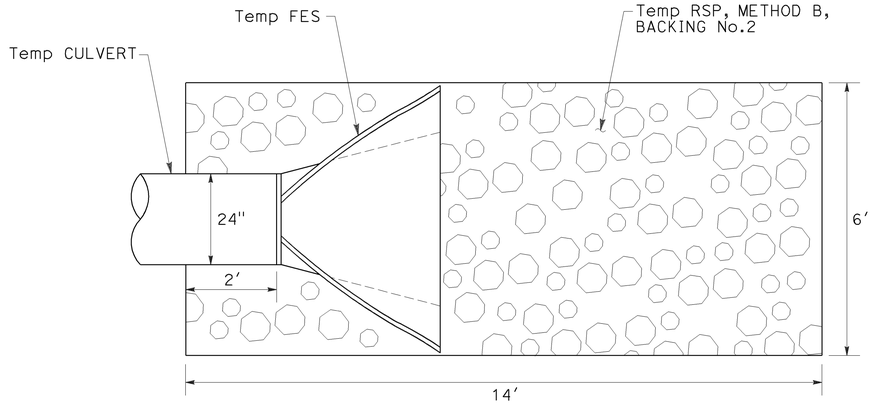
TEMPORARY CRASH CUSHION SAND FILLED

TYPICAL SHOULDER INSTALLATION
ADDITIONAL DETAILS SHOWN ON STANDARD PLAN T2



DETAIL H-5

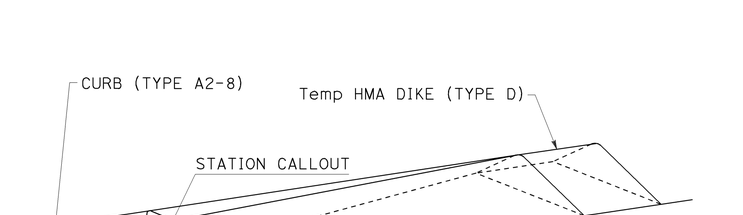
HOV LANE PAVEMENT MARKING



TEMPORARY ROCK SLOPE PROTECTION

NOTES:

1. FOR RSP DETAILS NOT SHOWN SEE DRAINAGE DETAILS.
2. FOR FES DETAILS NOT SHOWN SEE STANDARD PLANS.



CURB AND TEMP AC DIKE (TYPE D) TRANSITION

DETAIL HC

(DETAIL 13)
CONTINUOUS ACCESS STRIPE

STAGE CONSTRUCTION TRAFFIC HANDLING DETAILS

NO SCALE

SCD-1

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
KLA	8/10/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:58
08-10-09

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	829	1929

REGISTERED CIVIL ENGINEER — DATE 12/22/09

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
PLANS APPROVAL DATE

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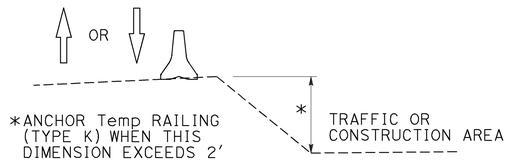
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

LEGEND THIS SHEET

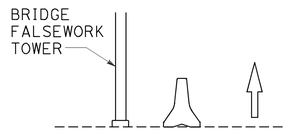
ANCHORED Temp RAILING (TYPE K)

DIRECTION OF TRAFFIC

REMOVE AND BACKFILL

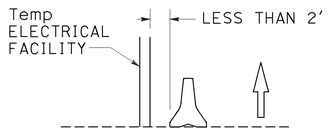


ANCHOR FOR EMBANKMENTS (SECTION)

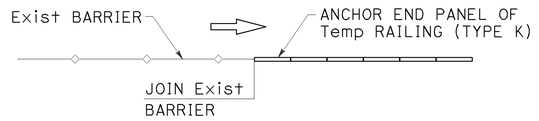


ANCHOR AT BRIDGE FALSEWORK TOWER (SECTION)

ANCHOR BETWEEN SEPARATE TRAFFIC DIRECTIONS (SECTION)



ANCHOR AT Temp ELECTRICAL FACILITY (SECTION)



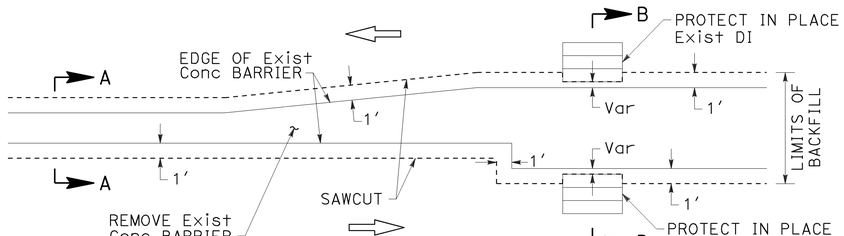
ANCHOR AT JOIN WITH Exist BARRIER (PLAN)

Temp RAILING (TYPE K) ANCHORING CONDITIONS

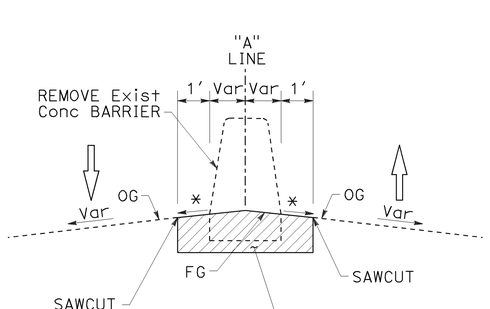
NOTES:

1. MAINTAIN POSITIVE LONGITUDINAL DRAINAGE TO INLETS.
2. CONSECUTIVE OVERNIGHT LANE CLOSURES REQUIRED AT EACH LOCATION OF REMOVE Exist CONCRETE BARRIER AND BACKFILL.

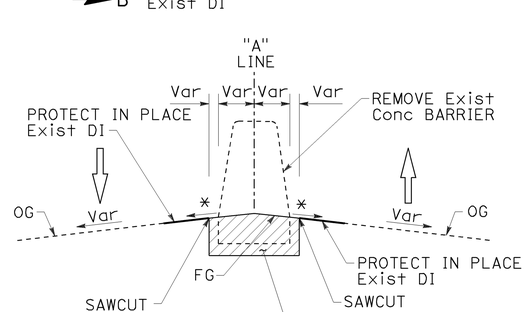
* MATCH Exist SLOPE



PLAN



SECTION A-A



SECTION B-B

STAGE 1A.2: "A" 440+57 TO 443+16
"A" 453+75 TO 455+71
"A" 467+50 TO 468+55
"A" 476+00 TO 481+46

STAGE 1B: "A" 437+22 TO 446+77

REMOVE Exist CONCRETE BARRIER AND BACKFILL

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

NO SCALE

SCD-2

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 08-10-09 | DATE PLOTTED => 03-FEB-2010 | TIME PLOTTED => 13:59

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmnguye | DGN FILE => c07163mb002.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	830	1929

REGISTERED CIVIL ENGINEER — 8/10/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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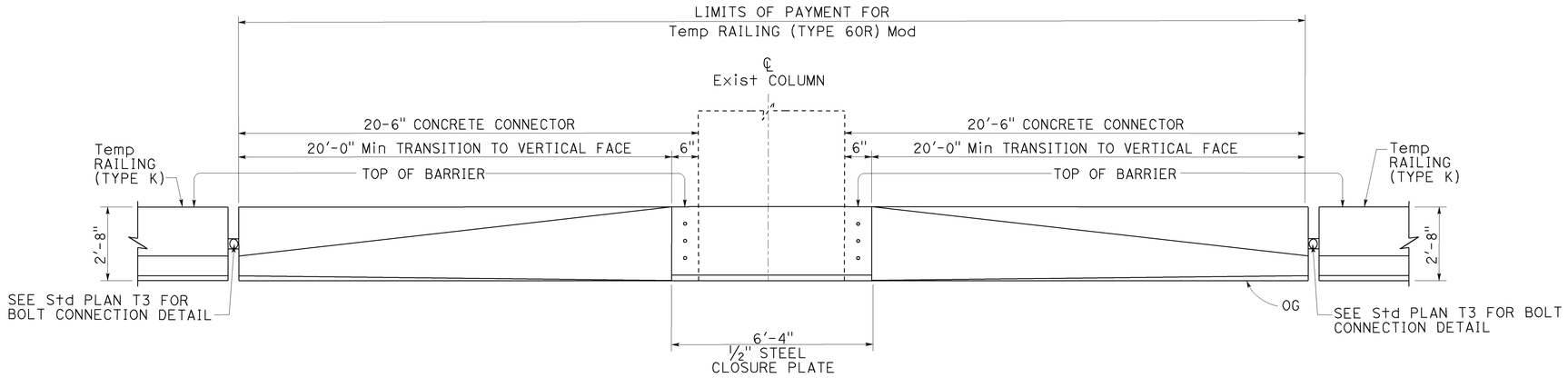
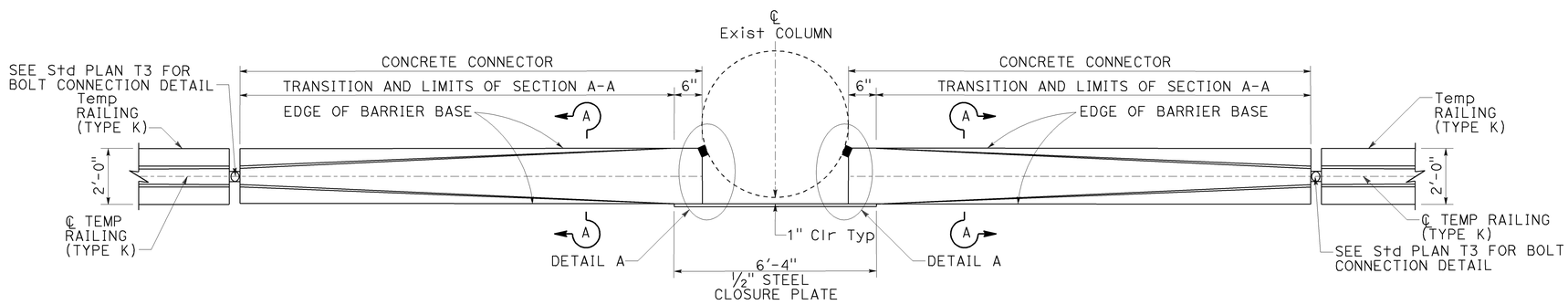


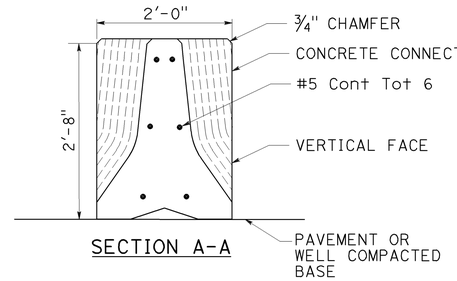
ELEVATION



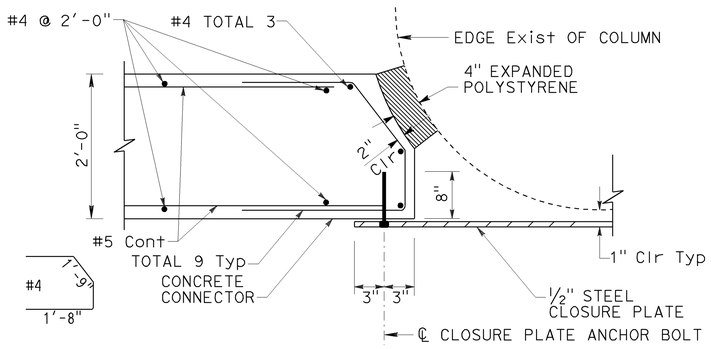
PLAN

NOTES:

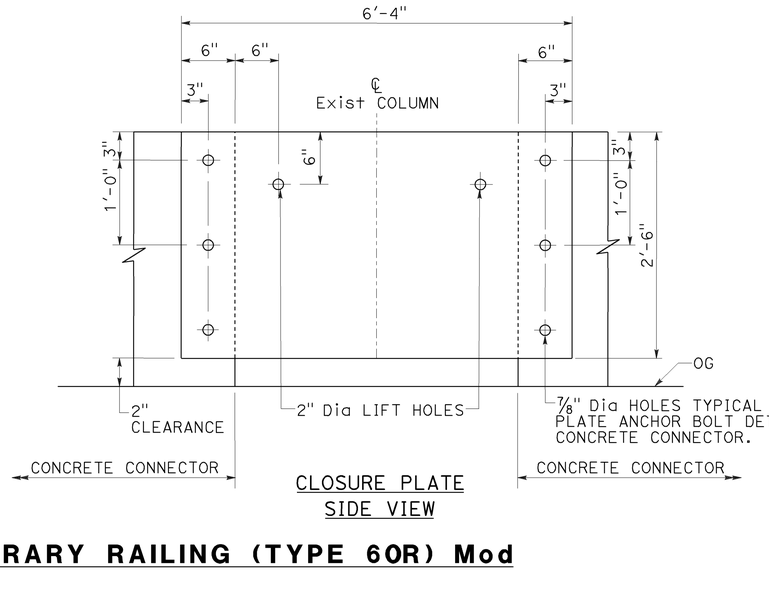
1. IF LIFTING HOLES ARE USED WITH THE CONCRETE CONNECTOR, THEY SHALL CONFORM TO THE LIFTING HOLE DETAILS SHOWN ON STANDARD PLAN T3.
2. ENCLOSE COLUMN WITH 4" EXPANDED POLYSTYRENE AT LOCATIONS WHERE CONCRETE OR CEMENT TREATED BASE ENCASES COLUMN.
3. PAINT CLOSURE PLATE WHITE.
4. WHEN THE TEMPORARY RAILING (TYPE 60R) Mod IS NO LONGER REQUIRED AND IS TO BE REMOVED, THE ANCHOR BOLTS CONNECTING THE CLOSURE PLATE AND THE CONCRETE CONNECTOR SHALL BE BE REMOVED OR CUT FLUSH WITH THE FACE OF THE CONCRETE CONNECTOR. IF THE ANCHOR BOLTS ARE REMOVED, THE RESULTING HOLES SHALL BE FILLED WITH GROUT.



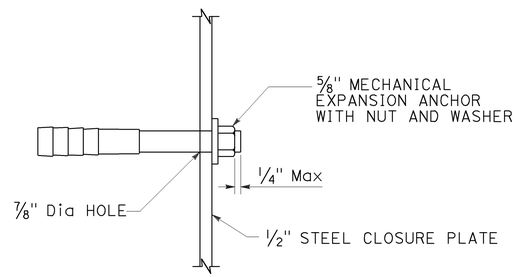
SECTION A-A



DETAIL A



CLOSURE PLATE SIDE VIEW



CLOSURE PLATE ANCHOR BOLT DETAIL

TEMPORARY RAILING (TYPE 60R) Mod

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAIL

NO SCALE

SCD-3

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
KLA	8/10/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:59
08-10-09

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	831	1929

REGISTERED CIVIL ENGINEER — 8/10/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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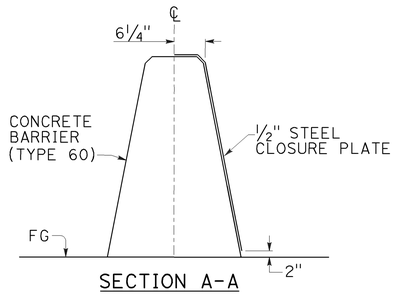
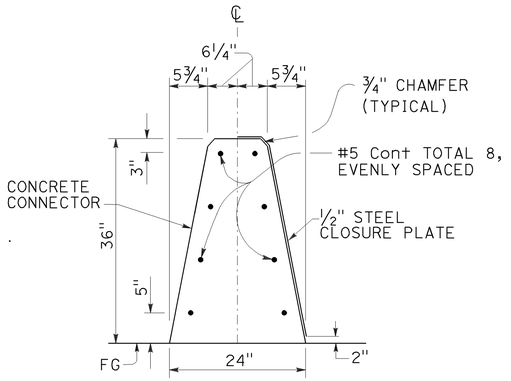
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTE:

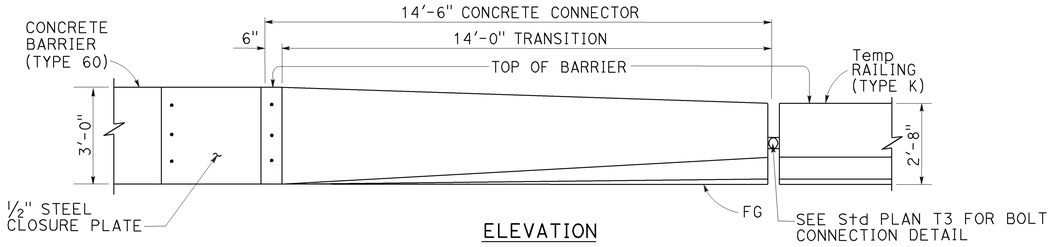
FOR ADDITIONAL INFORMATION NOT SHOWN, SEE STANDARD PLANS A76A, T3 AND T5.



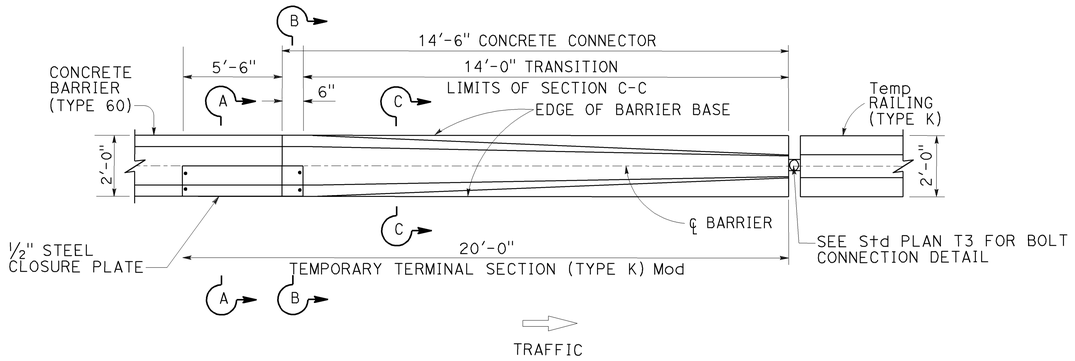
SECTION A-A



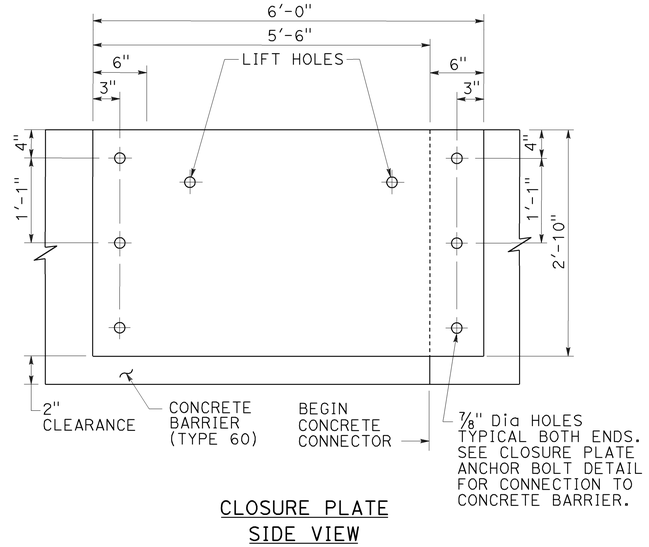
SECTION B-B



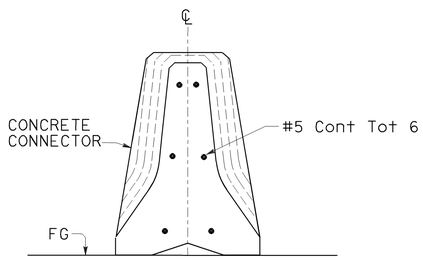
ELEVATION



PLAN
CONCRETE CONNECTOR



CLOSURE PLATE
SIDE VIEW



SECTION C-C

TEMPORARY TERMINAL SECTION (TYPE K) Mod

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAIL

NO SCALE

SCD-4

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
KLA	8/10/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
DIST COUNTY: 12 Ora
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION | DATE PLOTTED => 03-FEB-2010
08-10-09 | TIME PLOTTED => 14:49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	832	1929

REGISTERED CIVIL ENGINEER — 8/10/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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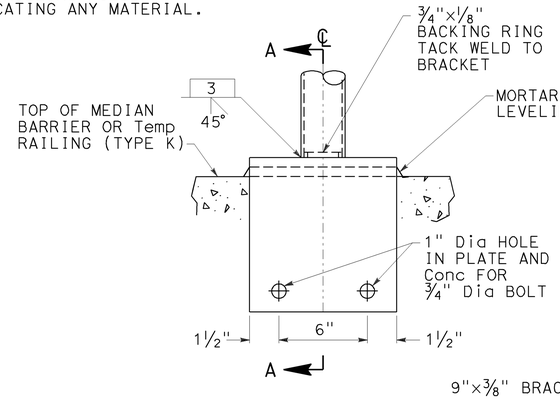
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

NOTES:

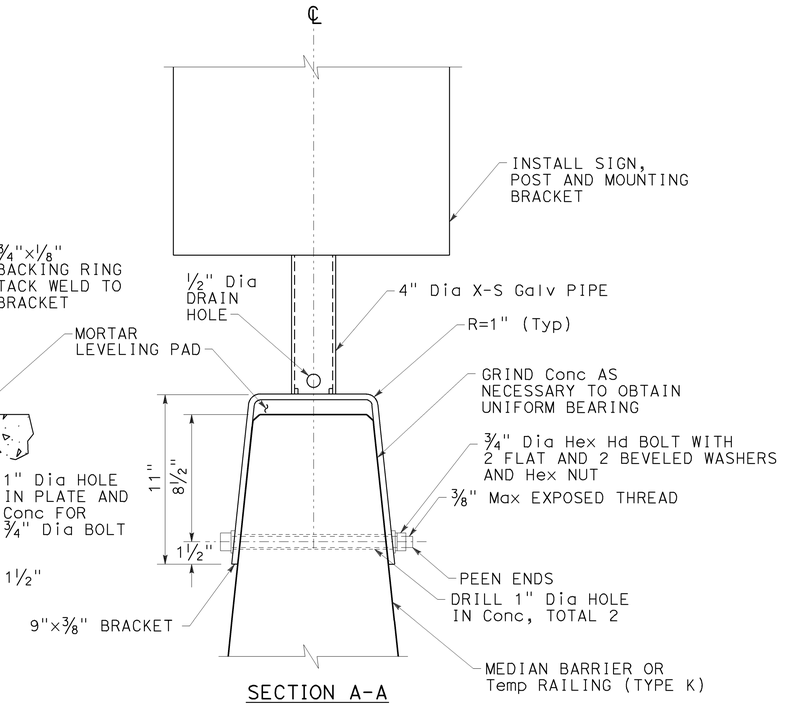
1. FOR DETAILS NOT SHOWN SEE STANDARD PLANS.
2. ALL BOLTS SHALL HAVE A WASHER UNDER THE NUT.
   BOLTS THROUGH THE POST SHALL BE ½" Dia.
   BOLTS THROUGH THE BACK BRACE SHALL BE ⅜" Dia.
   REAM HOLES IN SIZE AS REQUIRED.
3. ALL STEEL SHALL BE GALVANIZED.
4. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

ABBREVIATION

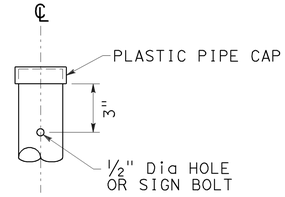
X-S EXTRA STRONG WEIGHT



ELEVATION

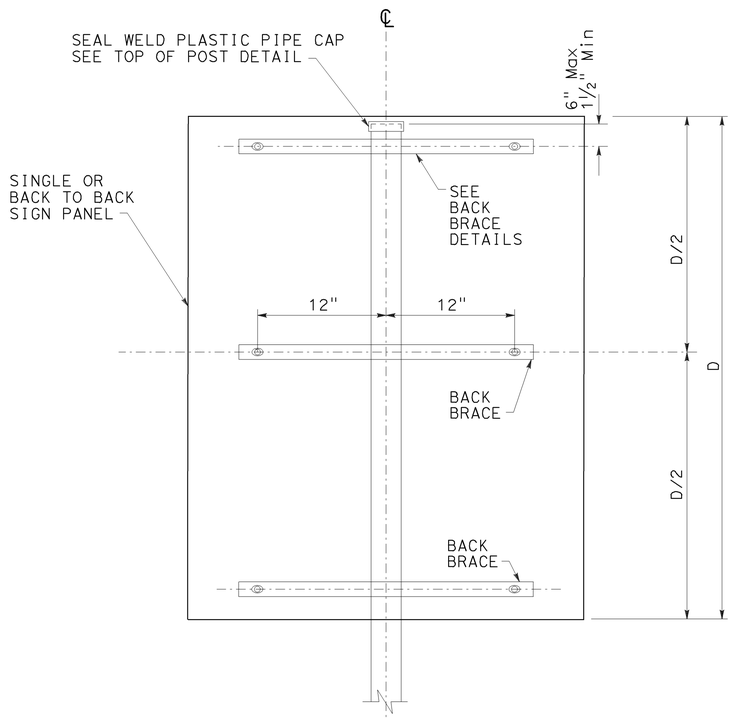


SECTION A-A

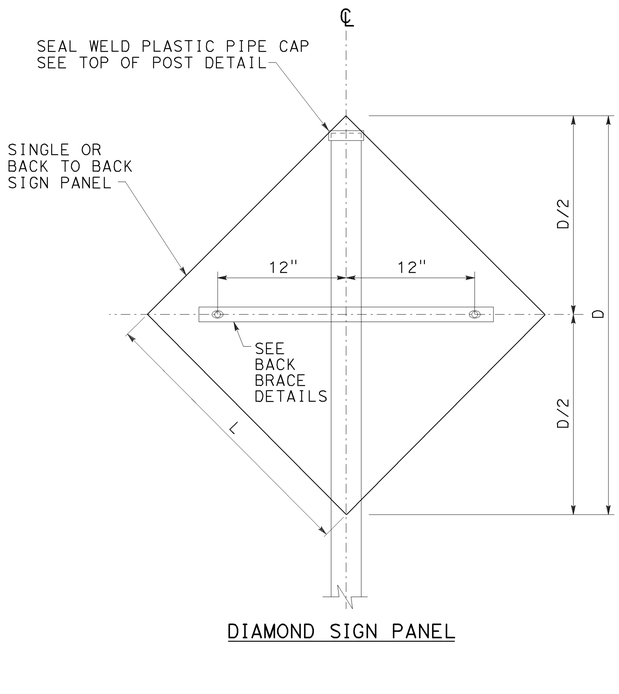


TOP OF POST DETAIL

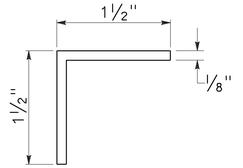
MEDIAN BARRIER MOUNTED SIGN



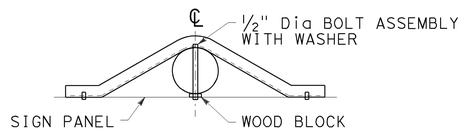
RECTANGULAR SIGN PANEL



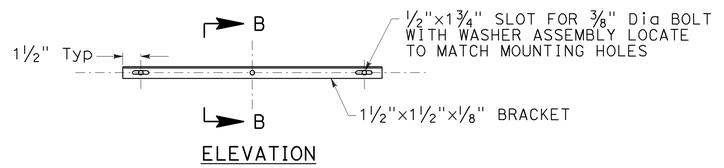
DIAMOND SIGN PANEL



SECTION B-B



PLAN



ELEVATION

BACK BRACE DETAILS

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

NO SCALE

SCD-5

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
KLA	8/10/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 14:49
08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s135318 DGN FILE => c07163mb005.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	833	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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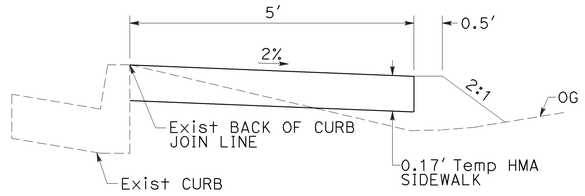
LEGEND THIS SHEET

TEMPORARY CURB RAMP DETECTABLE WARNING SURFACE

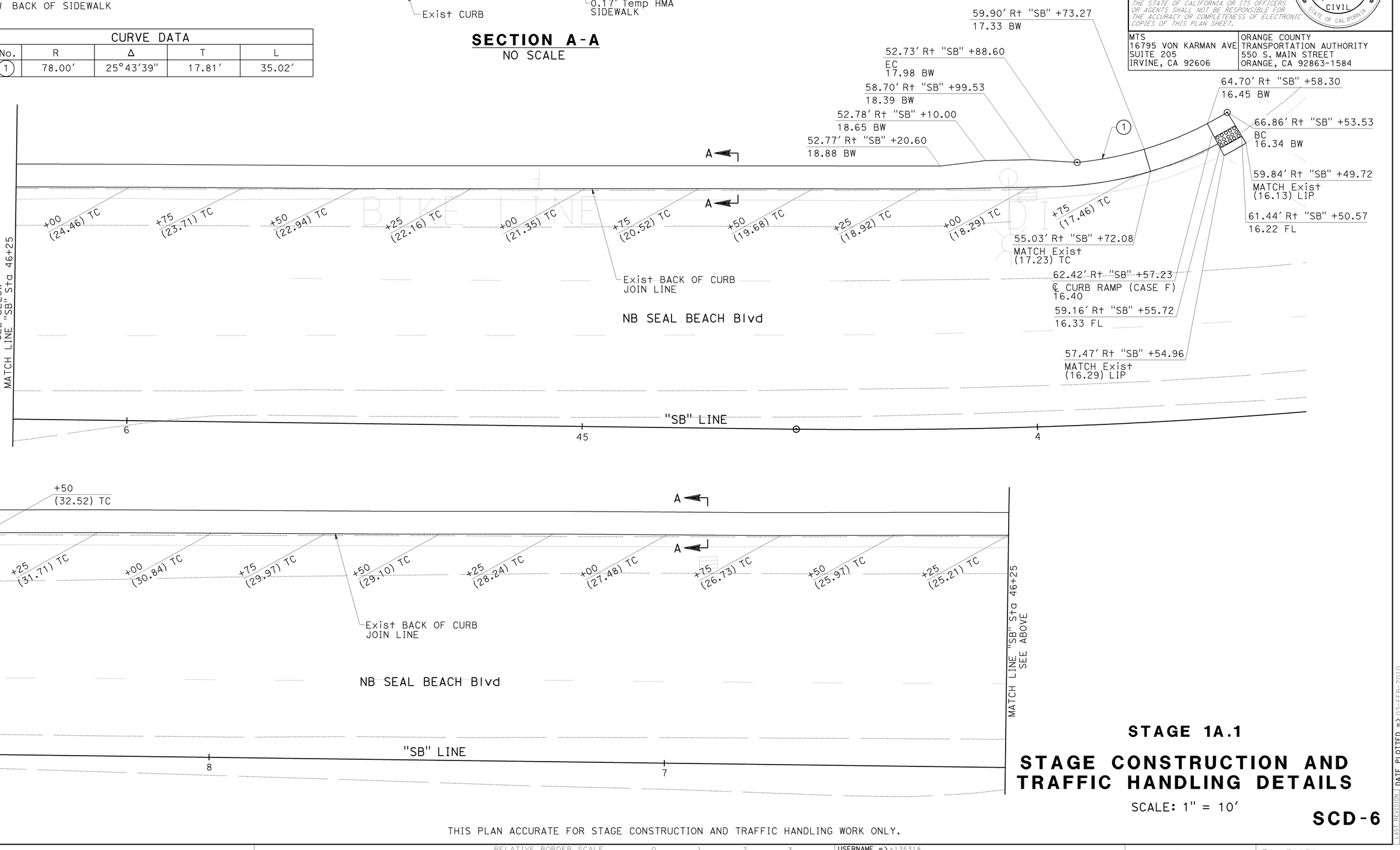
ABBREVIATION

BW BACK OF SIDEWALK

CURVE DATA				
No.	R	Δ	T	L
(1)	78.00′	25°43′39"	17.81′	35.02′



SECTION A-A
NO SCALE



STAGE 1A.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: 1" = 10′

SCD-6

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 08-10-09 | DATE PLOTTED => 03-FEB-2010 | TIME PLOTTED => 14:49

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s135318 | DGN FILE => c07163mb006.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	834	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU — No. C56168 — Exp.12/31/10 — CIVIL — STATE OF CALIFORNIA

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TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

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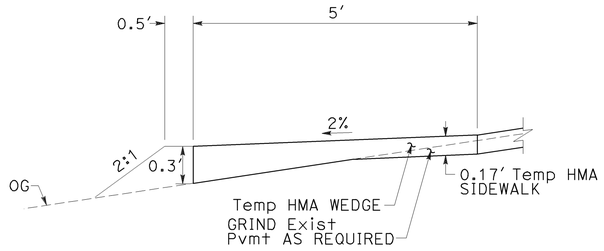
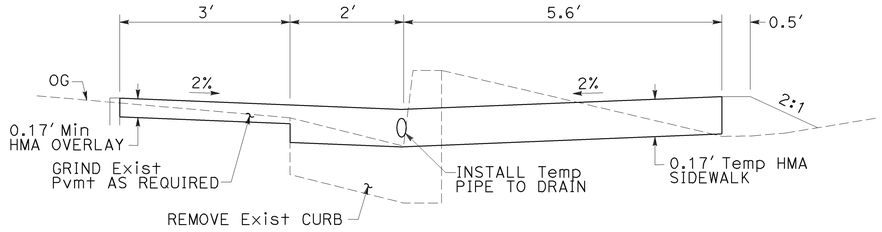
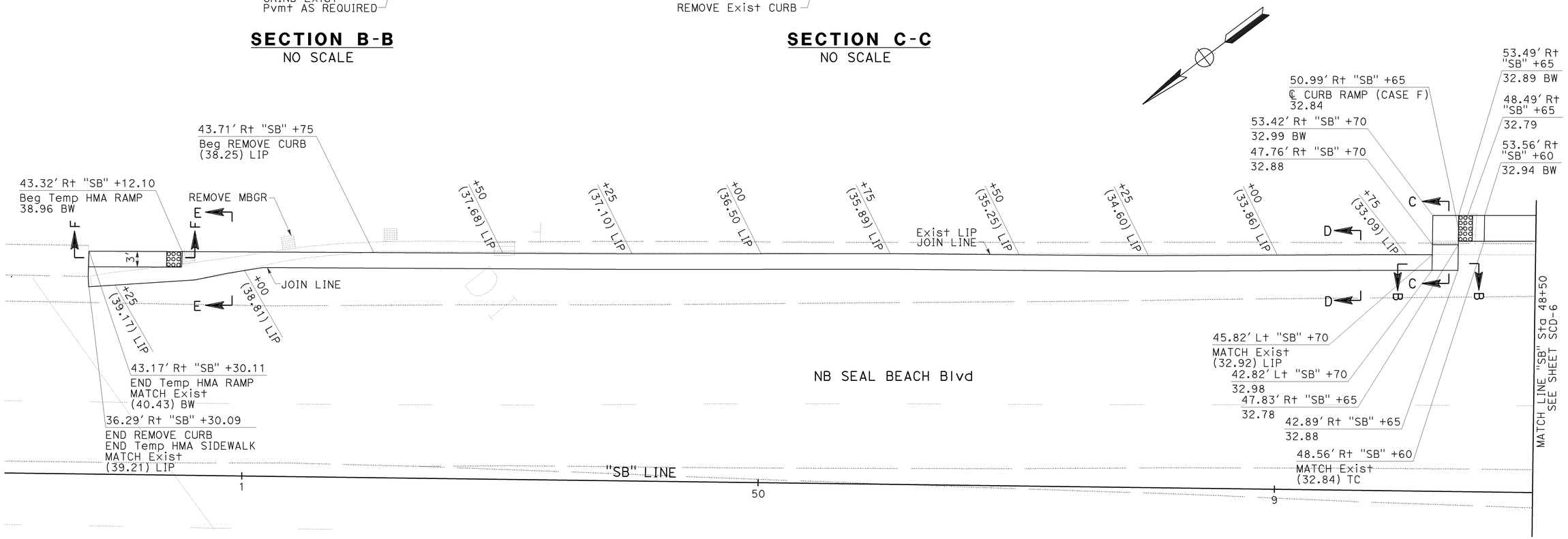
TEMPORARY CURB RAMP DETECTABLE WARNING SURFACE

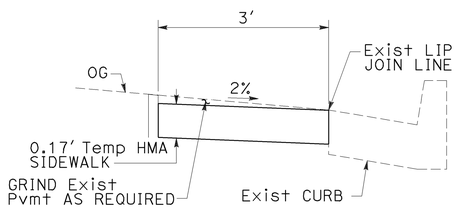


SECTION B-B
NO SCALE



SECTION C-C
NO SCALE





SECTION D-D
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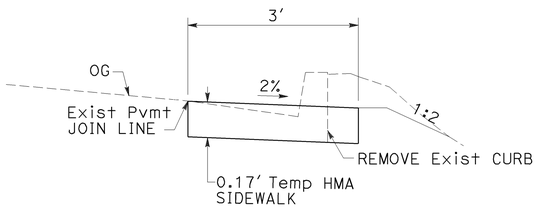
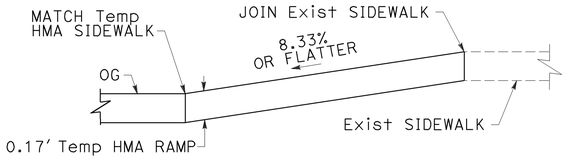


SECTION E-E
NO SCALE



SECTION F-F
NO SCALE

STAGE 1A.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: 1" = 10′

SCD-7

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 14:49

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s135318
DGN FILE => c07163mb007.dgn
CU 12235
EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	835	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
PLANS APPROVAL DATE

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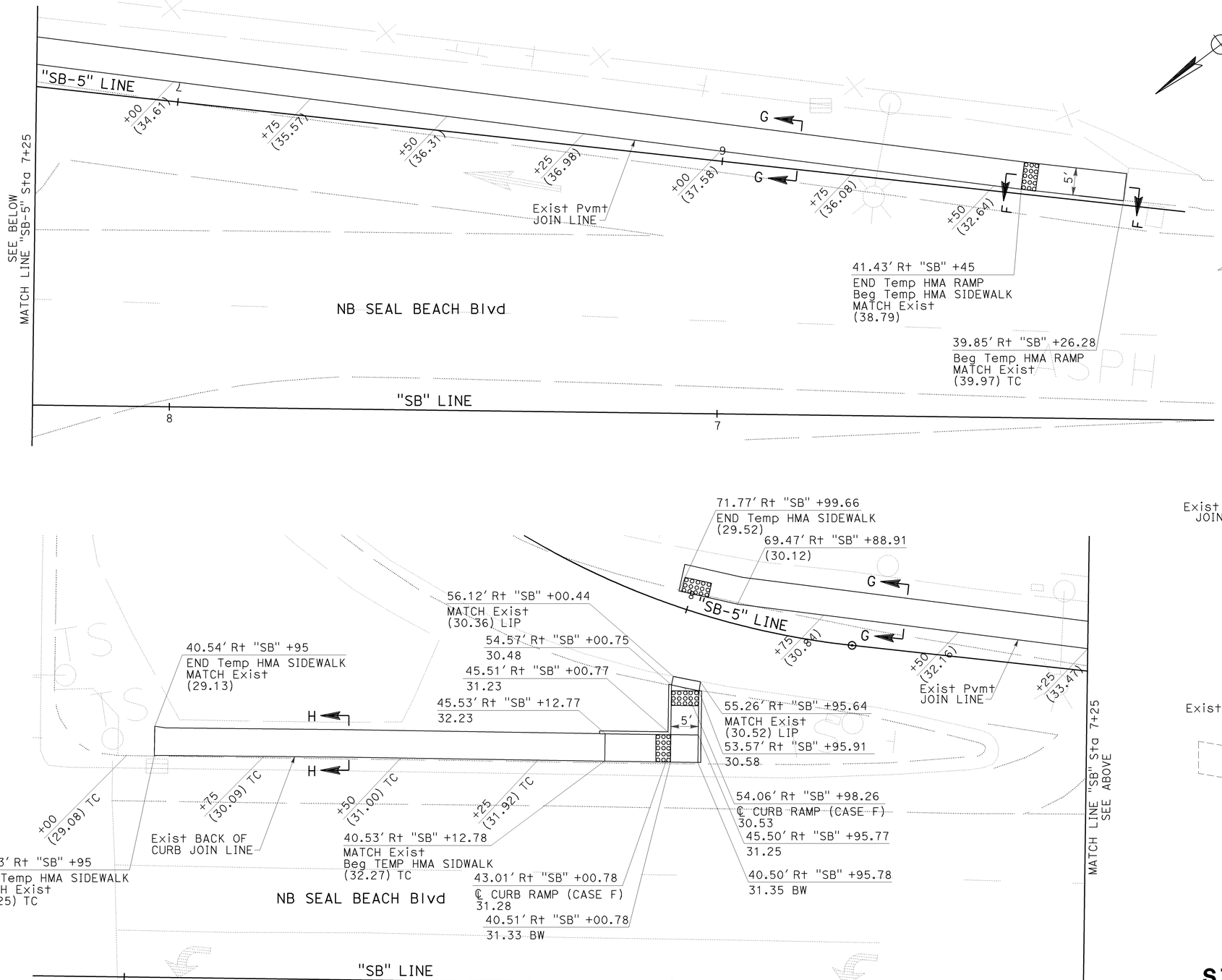
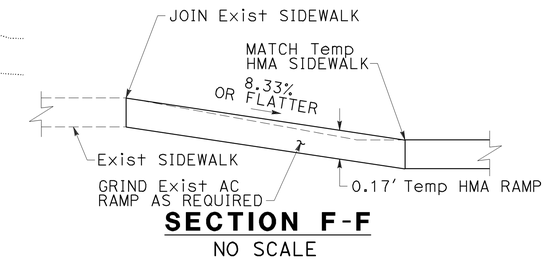
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

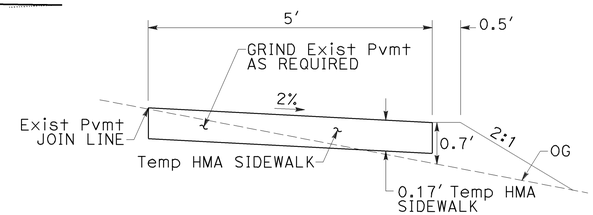
LEGEND THIS SHEET

TEMPORARY CURB RAMP DETECTABLE WARNING SURFACE

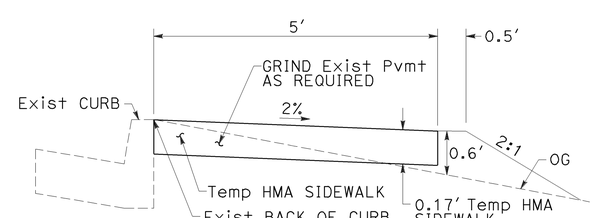




SECTION F-F
NO SCALE



SECTION G-G
NO SCALE



SECTION H-H
NO SCALE

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 1A.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: 1" = 10'

SCD-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU

REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION — DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 14:49

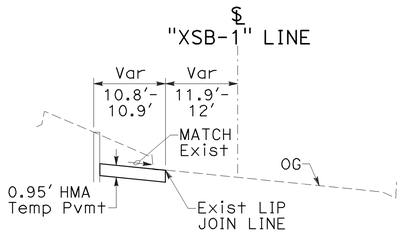
BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

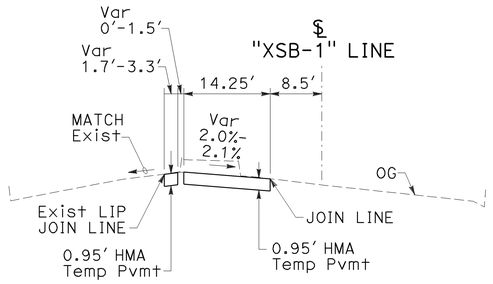
USERNAME => s135318
DGN FILE => c07163mb008.dgn

CU 12235

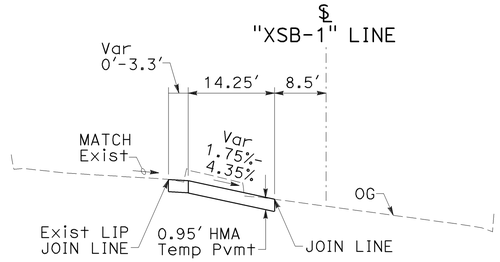
EA 071631



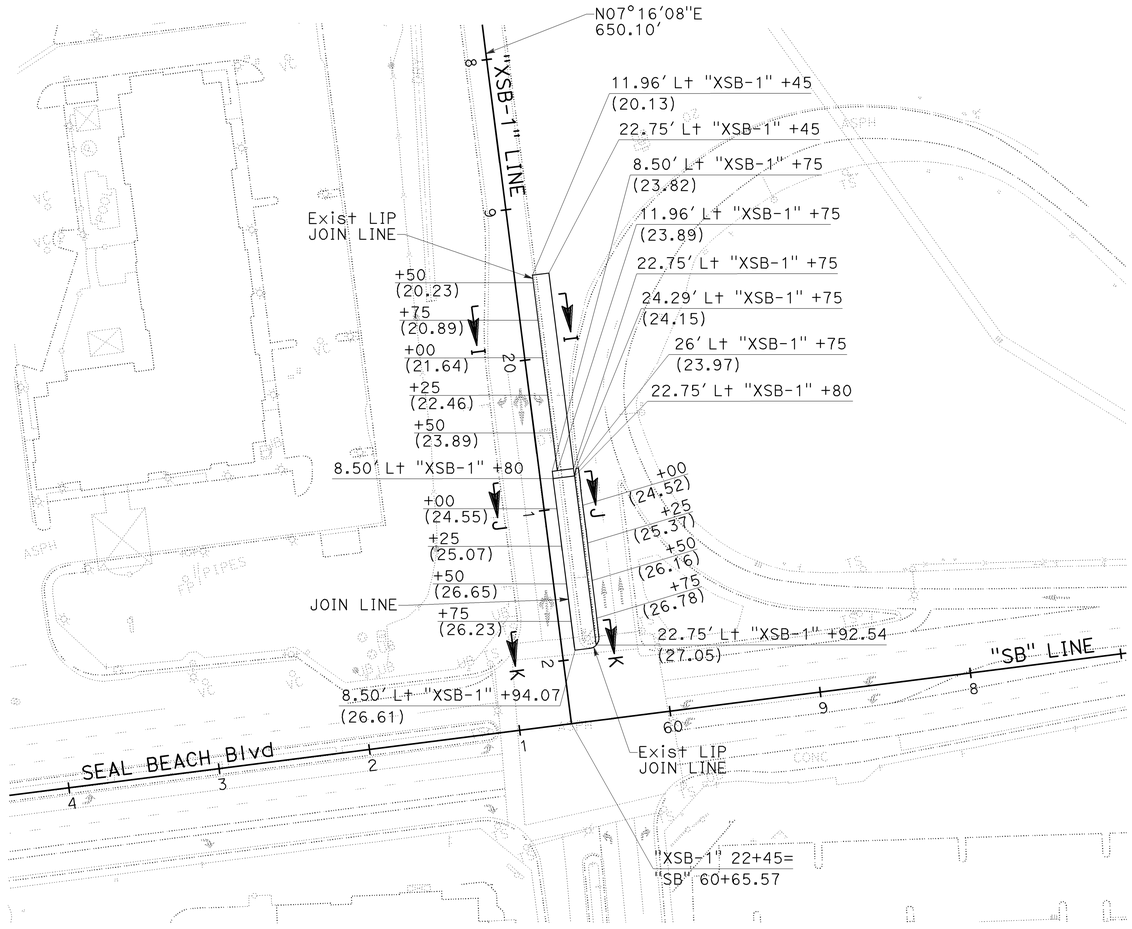
SECTION I-I
NO SCALE



SECTION J-J
NO SCALE



SECTION K-K
NO SCALE



THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 1A.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: 1" = 50'

SCD-9

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	836	1929

REGISTERED CIVIL ENGINEER — 8/10/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

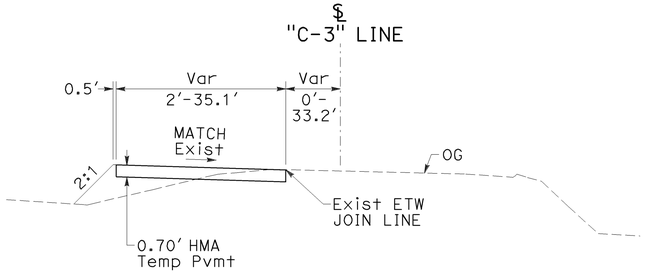
REVISED BY	DATE REVISED
KLA	8/10/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

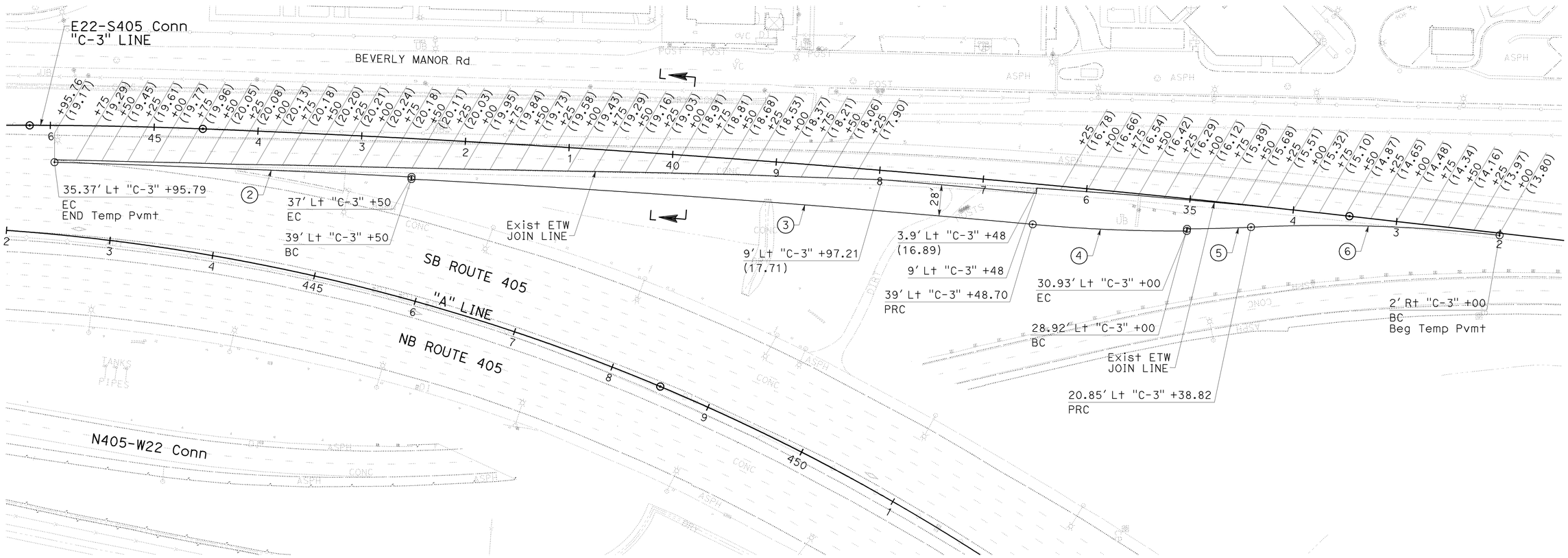
LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 14:49
08-10-09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s135318
DGN FILE => c07163mb009.dgn
CU 12235
EA 071631

CURVE DATA				
No.	R	Δ	T	L
(2)	15,093.00′	01°18′23"	172.07′	344.12′
(3)	15,091.00′	02°16′37"	299.92′	599.75′
(4)	1,504.00′	05°39′44"	74.38′	148.63′
(5)	1,502.00′	02°21′02"	30.81′	61.62′
(6)	1,498.00′	09°10′06"	102.11′	239.71′
(7)	2,028.00′	02°39′18"	47.00′	93.98′



SECTION L-L
NO SCALE



STAGE 1A.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: 1" = 50′

SCD-10

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	837	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

REVISED BY	DATE REVISED
KLA	12/22/09

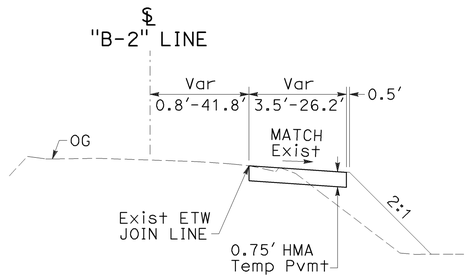
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

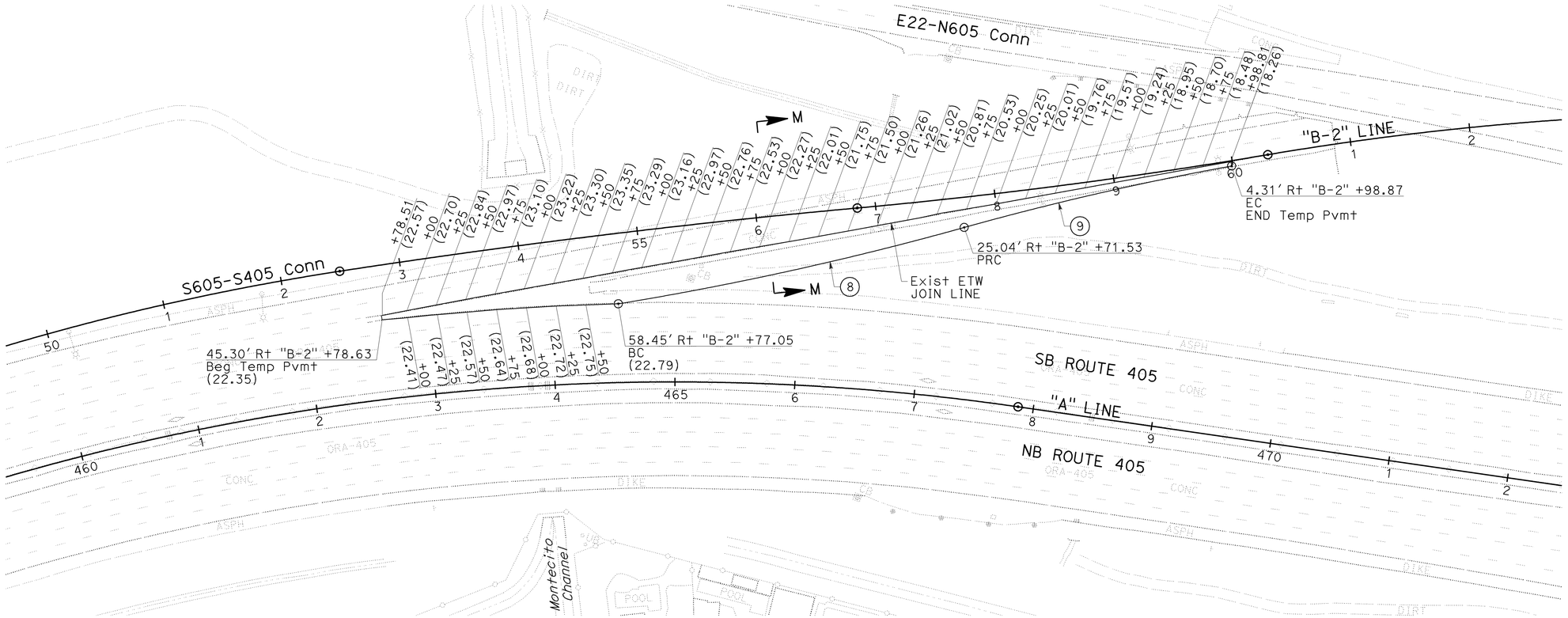
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 14:49
08-10-09

CURVE DATA				
No.	R	Δ	T	L
(8)	2,704.00′	06°15′59"	148.01′	295.73′
(9)	2,496.00′	05°15′30"	114.62′	229.08′



SECTION M-M
NO SCALE



THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 1A.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: 1" = 50′

SCD-11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	838	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

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IRVINE, CA 92606

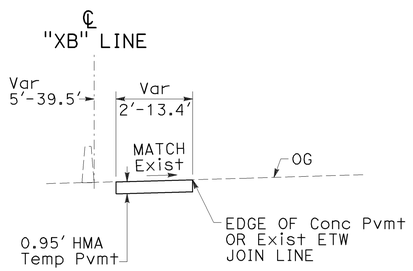
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

REVISED BY	DATE REVISED
KLA	12/22/09

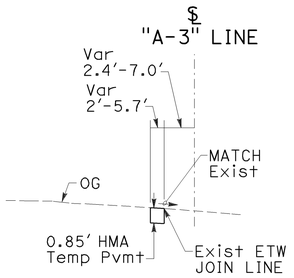
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 14:50

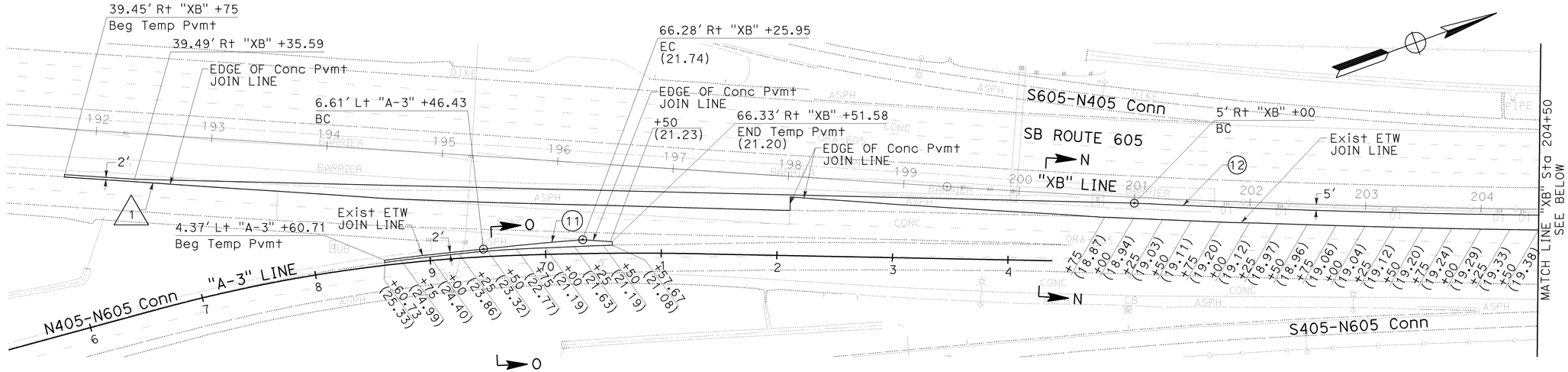
CURVE DATA				
No.	R	Δ	T	L
(10)	9,505.00′	05°10′12"	429.13′	857.67′
(11)	2,100.00′	02°21′18"	43.16′	86.31′



SECTION N-N
NO SCALE



SECTION O-O
NO SCALE



1 JOIN LINE Elev

Sta	Elev
191+75	(35.15)
192+00	(34.45)
192+25	(33.72)
192+50	(32.87)
192+75	(32.04)
193+00	(31.25)
193+25	(30.48)
193+50	(29.77)
193+75	(29.09)
194+00	(28.37)
194+25	(27.63)
194+50	(26.86)
194+75	(26.09)
195+00	(25.39)
195+25	(24.68)
195+50	(23.99)
195+75	(23.33)
196+00	(22.70)
196+25	(22.08)
196+50	(21.66)
196+75	(21.16)
197+00	(20.73)
197+25	(20.35)
197+50	(20.07)
197+75	(19.77)
198+00	(19.62)
198+25	(19.36)
198+50	(19.20)
198+75	(19.05)
199+00	(19.02)
199+25	(18.90)
199+50	(18.86)
199+75	(18.86)
200+00	(18.86)
200+25	(18.87)
200+50	(18.86)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	839	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

MTS
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SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

STAGE 1A.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: 1" = 50′

SCD-12

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY: KLA — DATE REVISED: 12/22/09
CALCULATED-DESIGNED BY: KELSIE ANDERSON — CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 14:50

BORDER LAST REVISED 8/1/2008 — RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 — USERNAME => s135318 — DGN FILE => c07163mb012.dgn — CU 12235 — EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	840	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

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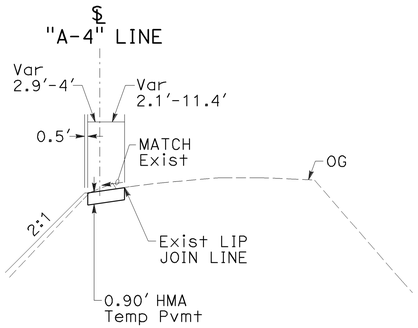
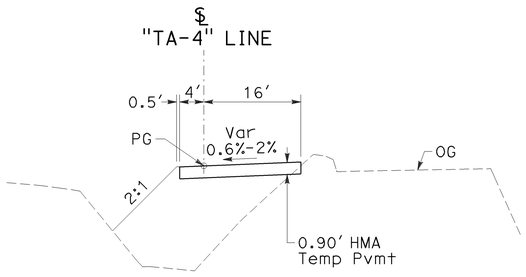
IRVINE, CA 92606

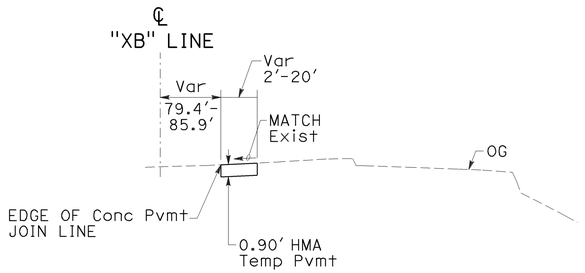
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584



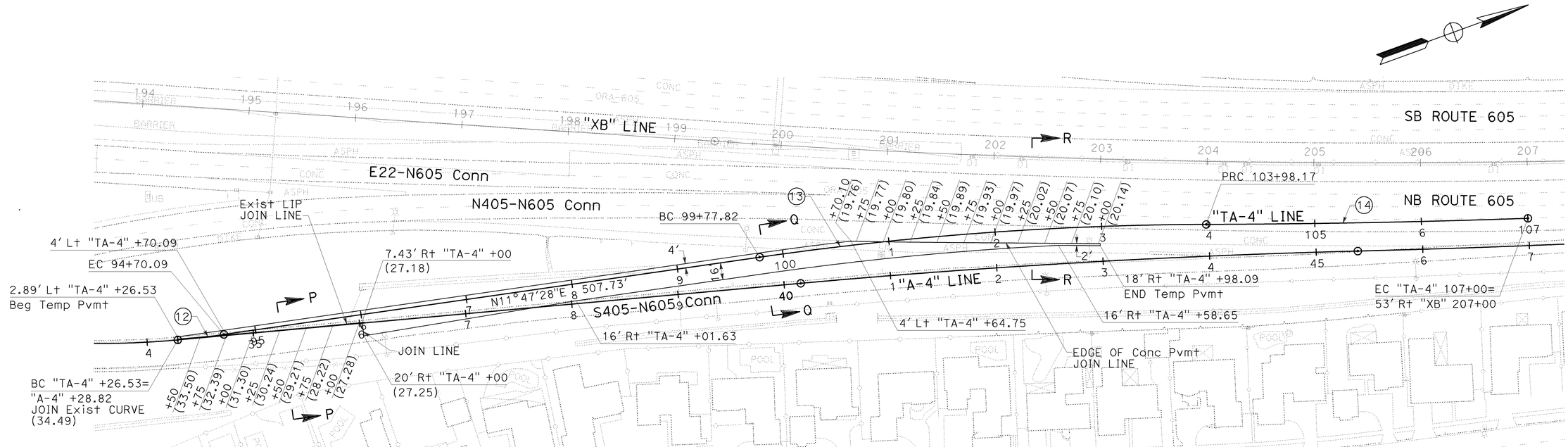
SECTION P-P
NO SCALE



SECTION Q-Q
NO SCALE



SECTION R-R
NO SCALE



CURVE DATA				
No.	R	Δ	T	L
(12)	826.00′	03°01′16"	21.78′	43.56′
(13)	3,000.00′	08°01′41"	210.52′	420.35′
(14)	9,554.00′	01°48′36"	150.93′	301.83′

STAGE 1A.2

"TA-4" LINE (Temp S405-N605 Conn)

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: 1" = 50′

SCD-13

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09
LAST REVISION — DATE PLOTTED => 03-FEB-2010 TIME PLOTTED => 14:50
08-10-09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s135318
DGN FILE => c07163mb013.dgn
CU 12235
EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	841	1929

REGISTERED CIVIL ENGINEER — 8/10/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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ORANGE COUNTY
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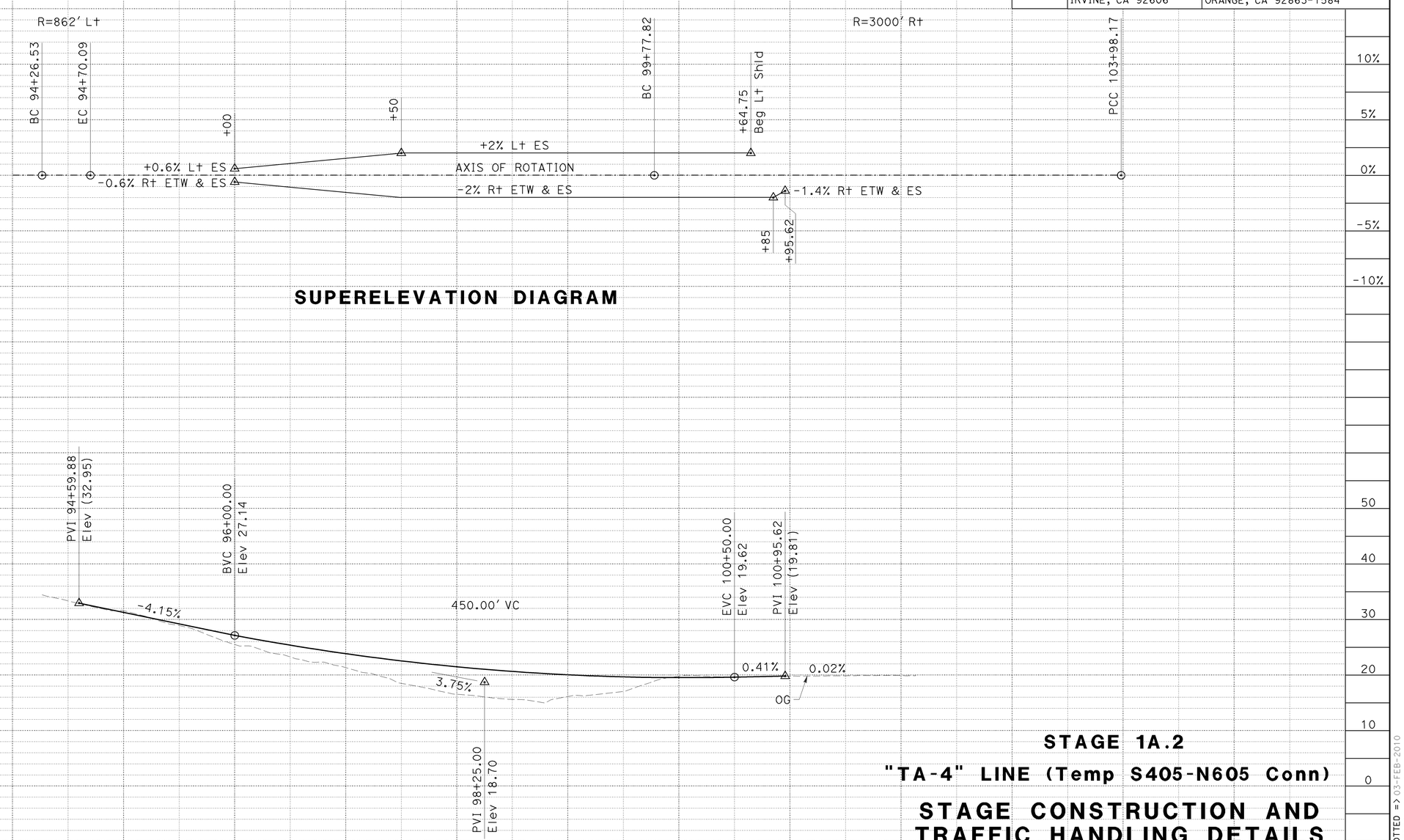
550 S. MAIN STREET
ORANGE, CA 92863-1584



SUPERELEVATION DIAGRAM

PROFILE

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 1A.2

"TA-4" LINE (Temp S405-N605 Conn)

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: Horiz 1" = 50'
Vert 1" = 10'

SCD-14

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 14:50
08-10-09

STATION	4	95	6	7	8	9	100	1	2	3	4	TOTAL
CY Exc												
CY Emb												

REVISED BY	DATE REVISED
KLA	8/10/09

KELSIE ANDERSON — CALCULATED-DESIGNED BY
JULIET SU — CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s135318
DGN FILE => c07163mb014.dgn

CU 12235

EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	842	1929

REGISTERED CIVIL ENGINEER — DATE 12/22/09

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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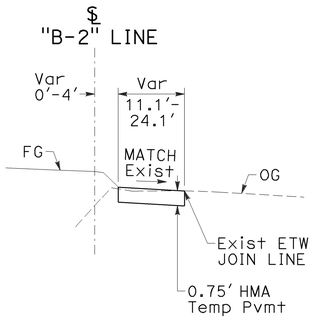
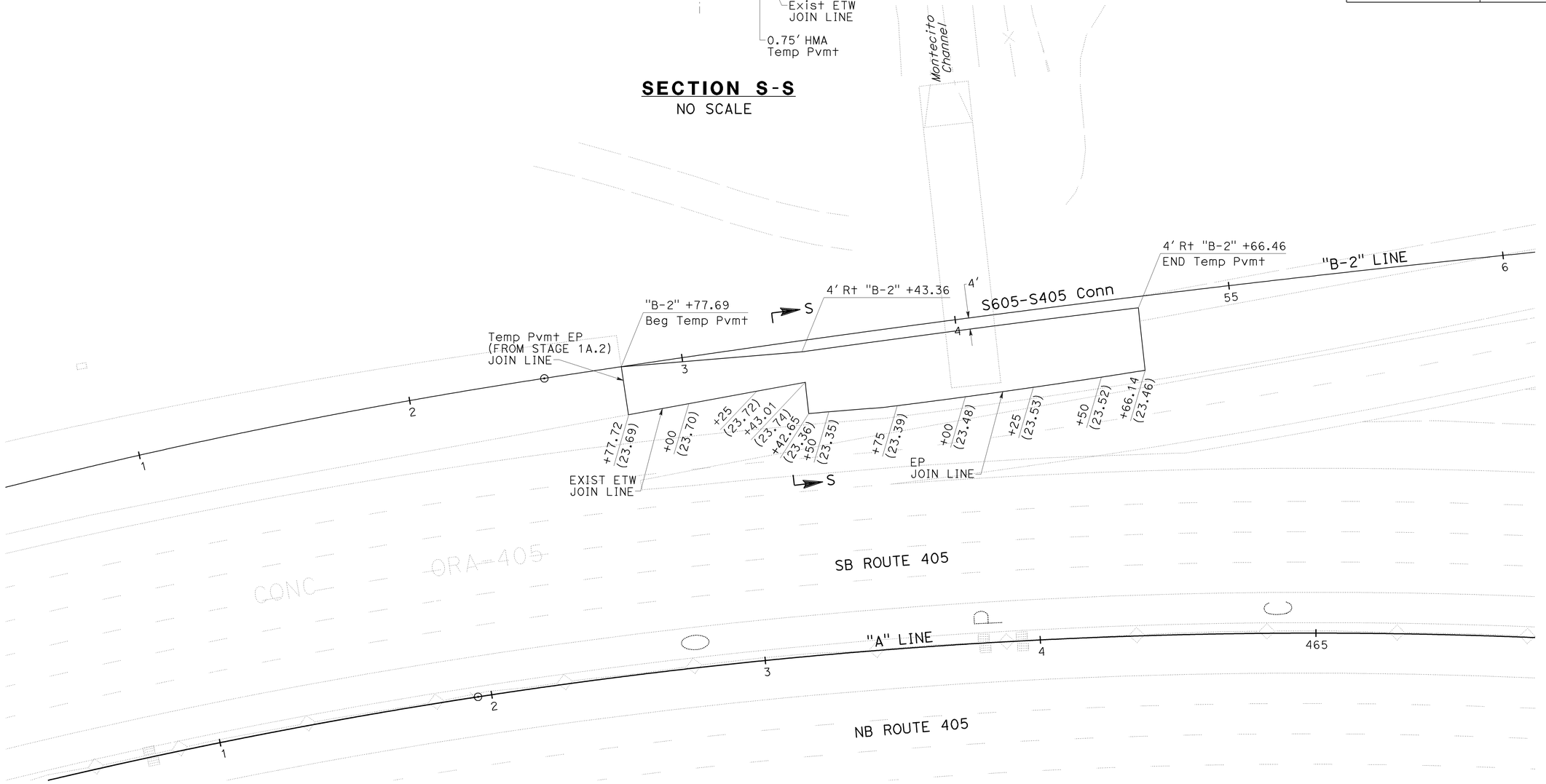
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584



SECTION S-S
NO SCALE



STAGE 1B.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: 1" = 20'

SCD-15

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU

REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 14:50
08-10-09

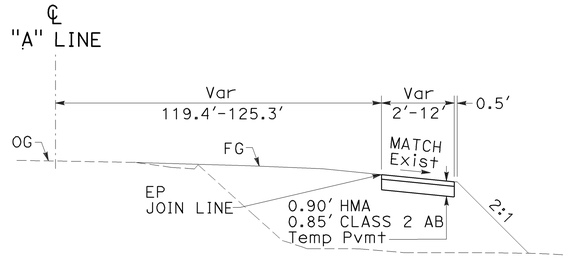
BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

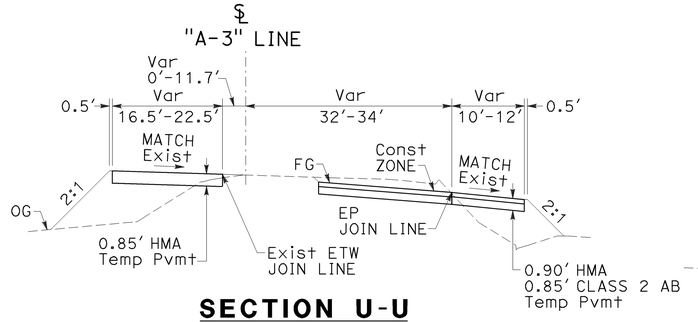
USERNAME => s135318
DGN FILE => c07163mb015.dgn

CU 12235

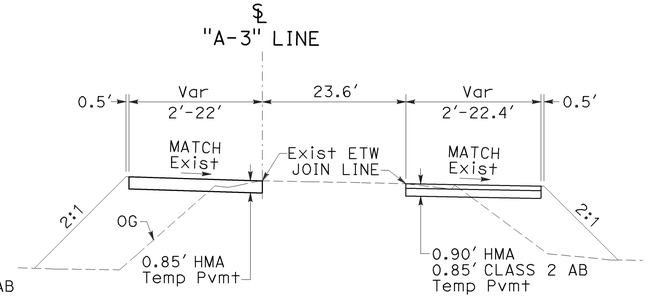
EA 071631



SECTION T-T
NO SCALE



SECTION U-U
NO SCALE



SECTION V-V
NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	843	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

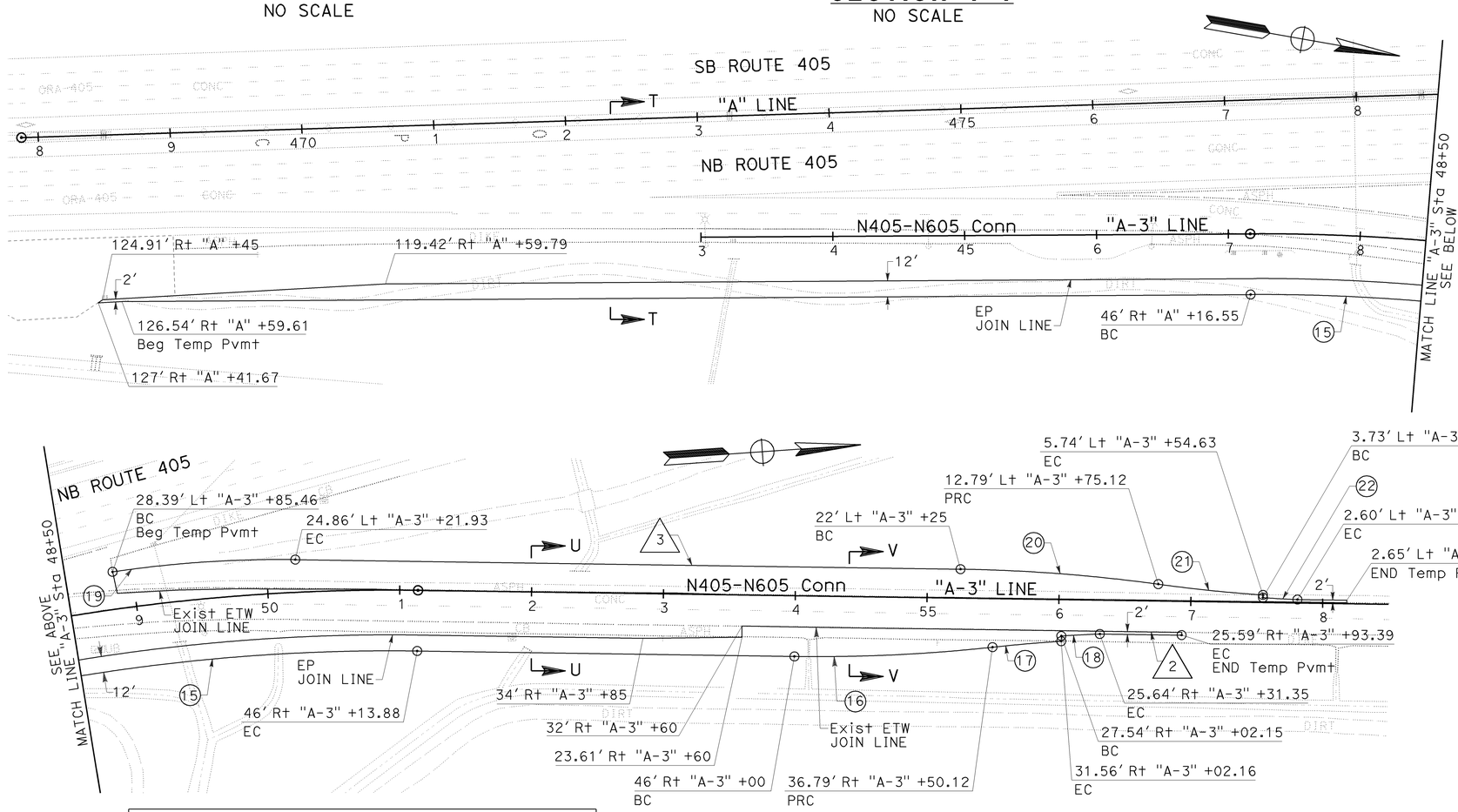
MTS 16795 VON KARMAN AVE SUITE 205 IRVINE, CA 92606	ORANGE COUNTY TRANSPORTATION AUTHORITY 550 S. MAIN STREET ORANGE, CA 92863-1584

△2 JOIN LINE Elev

Sta	Elev
53+60	(19.05)
53+75	(19.19)
54+00	(19.42)
54+25	(19.65)
54+50	(19.88)
54+75	(20.12)
55+00	(20.37)
55+25	(20.62)
55+50	(20.87)
55+75	(21.12)
56+00	(21.37)
56+25	(21.62)
56+50	(21.88)
56+75	(22.12)
56+93.39	(22.29)

△3 JOIN LINE Elev

Sta	Elev
48+86.73	(17.92)
49+00	(17.91)
49+25	(17.80)
49+50	(17.55)
49+75	(17.29)
50+00	(17.00)
50+25	(16.98)
50+50	(16.96)
50+75	(16.78)
51+00	(16.69)
51+25	(16.84)
51+50	(17.27)
51+75	(17.56)
52+00	(17.81)
52+25	(17.97)
52+50	(18.15)
52+75	(18.40)
53+00	(18.64)
53+25	(18.89)
53+50	(19.15)
53+75	(19.40)
54+00	(19.65)
54+25	(19.90)
54+50	(20.13)
54+75	(20.35)
55+00	(20.56)
55+25	(20.78)
55+50	(21.01)
55+75	(21.24)
56+00	(21.48)
56+25	(21.71)
56+50	(21.94)
56+75	(22.21)
57+00	(22.49)
57+25	(22.78)
57+50	(23.06)
57+75	(23.34)
58+00	(23.63)
58+18.39	(23.84)



CURVE DATA				
No.	R	Δ	T	L
(15)	1,456.00'	15°10'36"	193.71'	385.14'
(16)	1,228.00'	07°01'18"	75.34'	150.49'
(17)	1,172.00'	02°33'26"	26.16'	52.31'
(18)	1,176.00'	01°25'32"	14.63'	29.26'
(19)	854.00'	09°19'42"	69.67'	139.04'
(20)	1,228.00'	07°01'18"	75.34'	150.49'
(21)	1,172.00'	03°54'11"	39.94'	79.84'
(22)	1,174.00'	01°16'48"	13.11'	26.23'

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 1B.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: 1" = 50'

SCD-16

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 14:50
08-10-09

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY	CHECKED BY
KELSIE ANDERSON	JULIET SU

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

BORDER LAST REVISED 8/1/2008

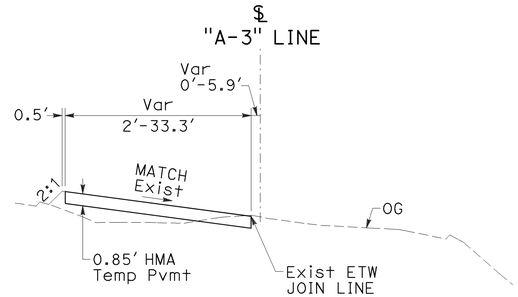
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s135318
DGN FILE => c07163mb016.dgn

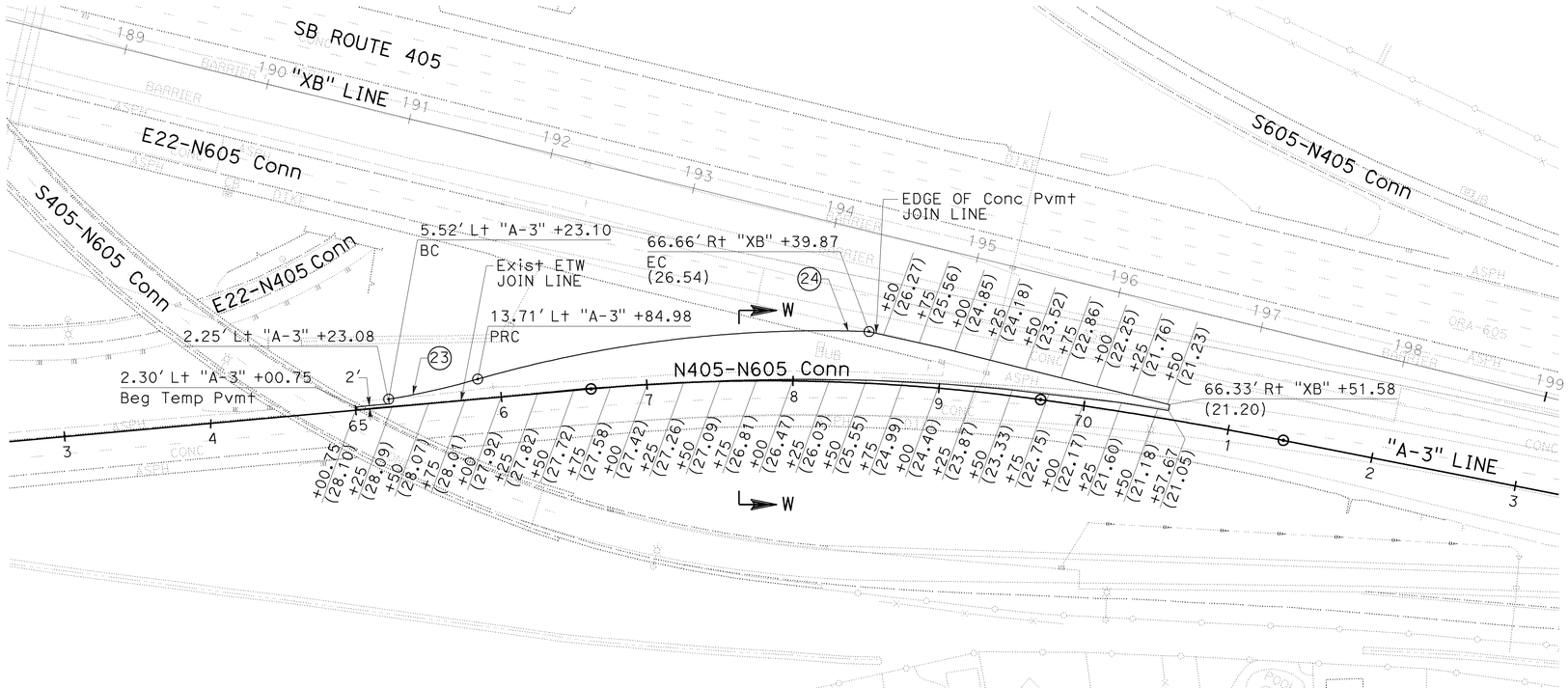
CU 12235

EA 071631

CURVE DATA				
No.	R	Δ	T	L
(23)	546.00′	06°33′15"	31.26′	62.46′
(24)	854.00′	18°10′26"	136.59′	270.88′



SECTION W-W
NO SCALE



STAGE 1B.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: 1" = 50′

SCD-17

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	844	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 14:51

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	845	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

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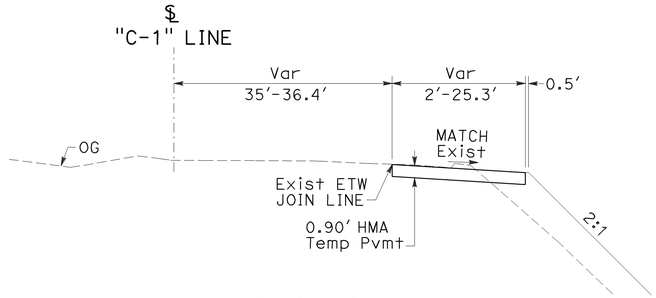
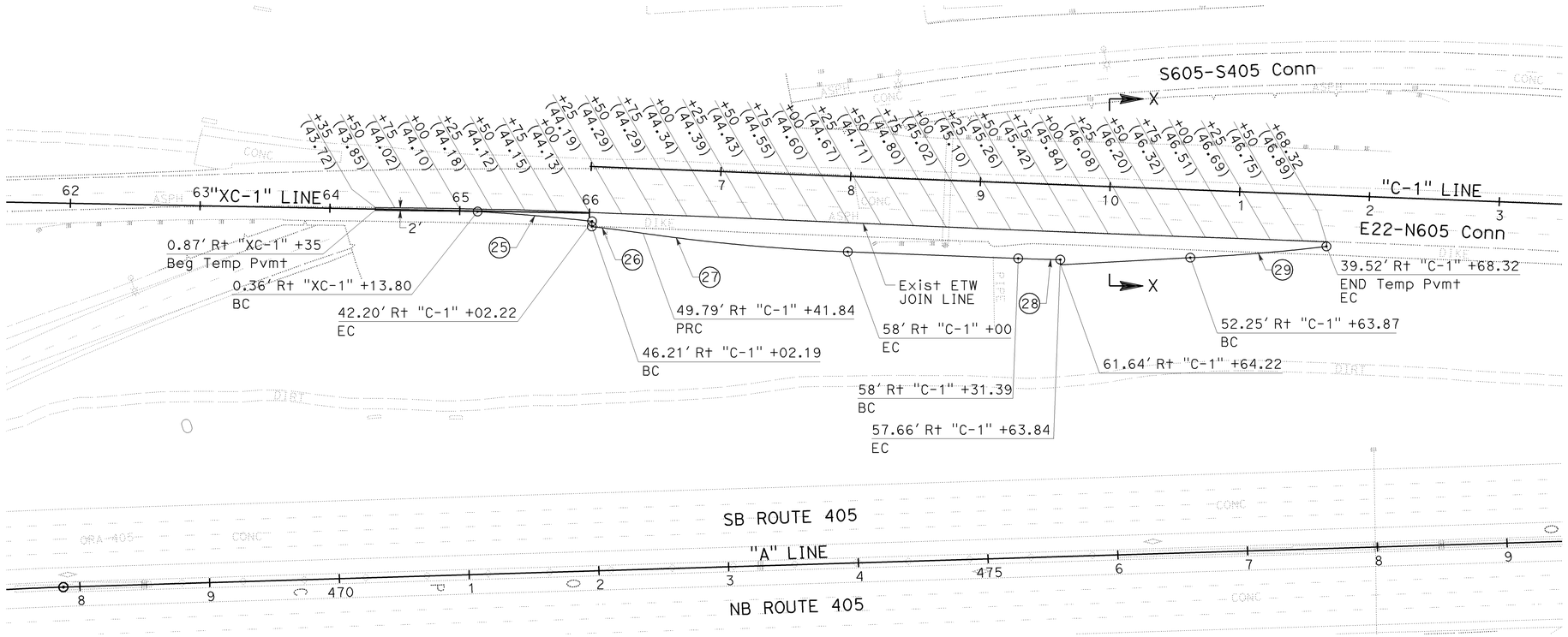
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

CURVE DATA				
No.	R	Δ	T	L
(25)	1,476.00′	03°26′01"	44.24′	88.45′
(26)	1,472.00′	01°32′58"	19.91′	39.81′
(27)	1,528.00′	05°56′28"	79.29′	158.44′
(28)	1,528.00′	01°13′01"	16.23′	32.45′
(29)	1,528.00′	03°56′49"	56.65′	105.26′



SECTION X-X
NO SCALE



STAGE 1B.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: 1" = 50′

SCD-18

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU

REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION — DATE PLOTTED => 03-FEB-2010 — TIME PLOTTED => 14:51
08-10-09

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s135318
DGN FILE => c07163mb018.dgn

CU 12235

EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	846	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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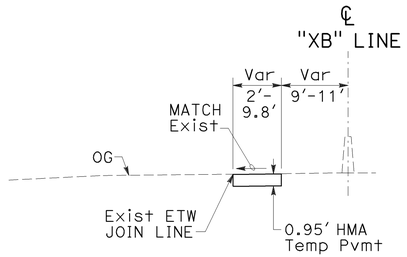
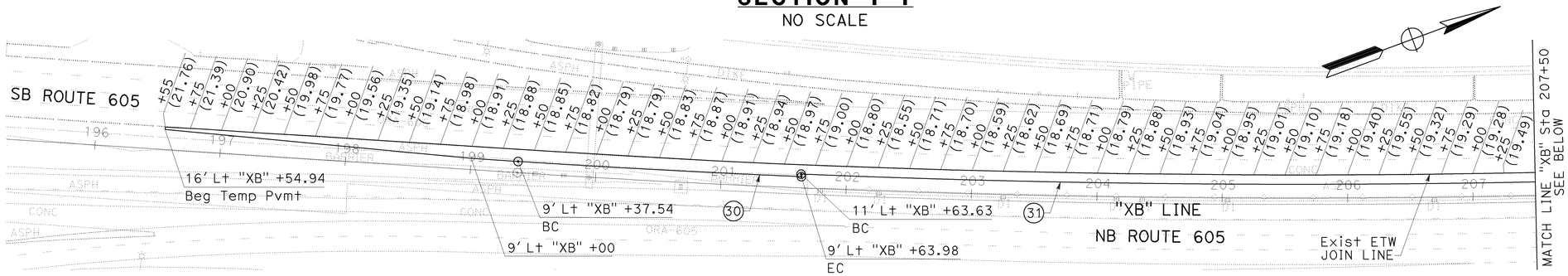
IRVINE, CA 92606

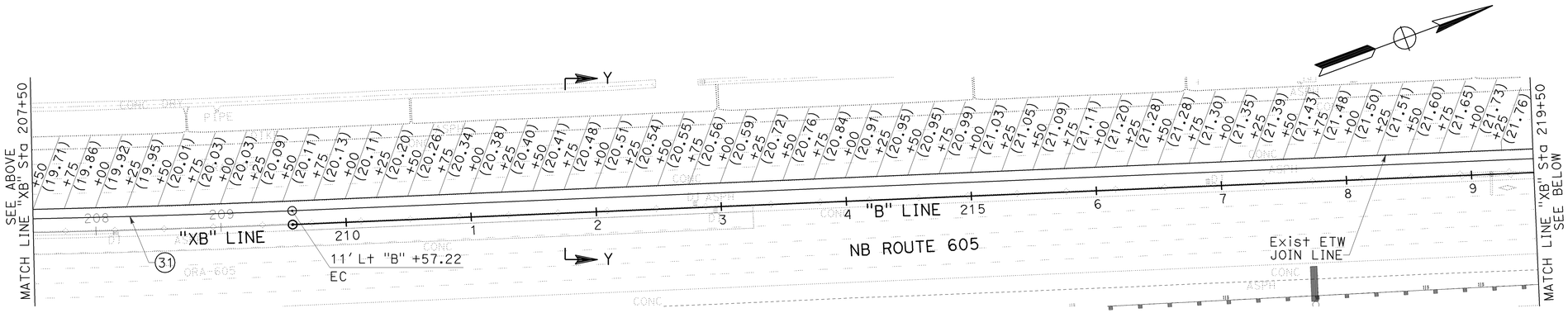
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

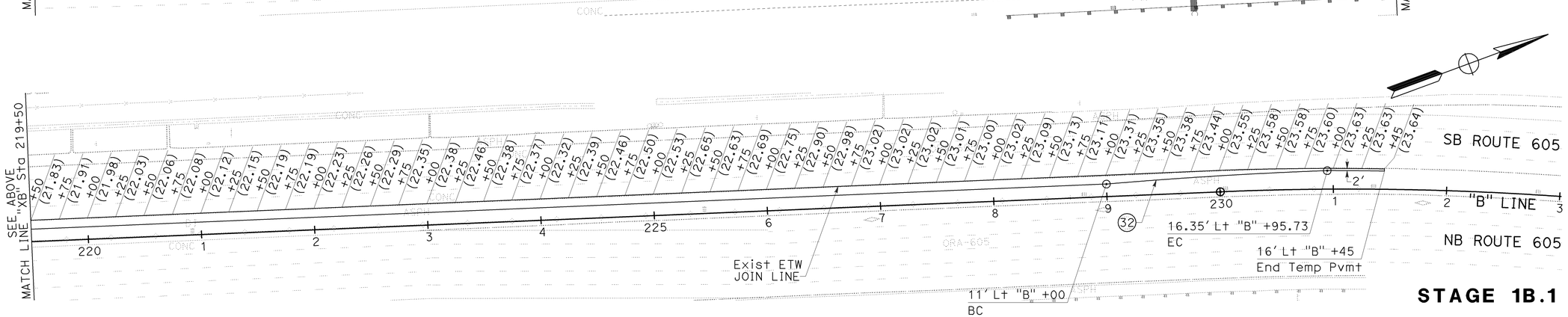
CURVE DATA				
No.	R	Δ	T	L
(30)	9,491.00′	01°21′56"	113.12′	226.22′
(31)	9,489.00′	04°47′11"	396.57′	792.68′
(32)	4,030.00′	02°46′36"	97.69′	195.34′



SECTION Y-Y
NO SCALE







STAGE 1B.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: 1" = 50′

SCD-19

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU

REVISED BY: KLA — DATE REVISED: 12/22/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 14:51
08-10-09

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s135318
DGN FILE => c07163mb019.dgn

CU 12235

EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	847	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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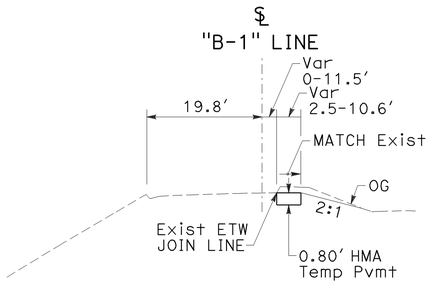
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

CURVE DATA				
No.	R	Δ	T	L
(33)	1,629.00′	08°30′03"	121.07′	241.69′
(34)	1,625.00′	09°39′23"	137.26′	273.87′



SECTION Z-Z
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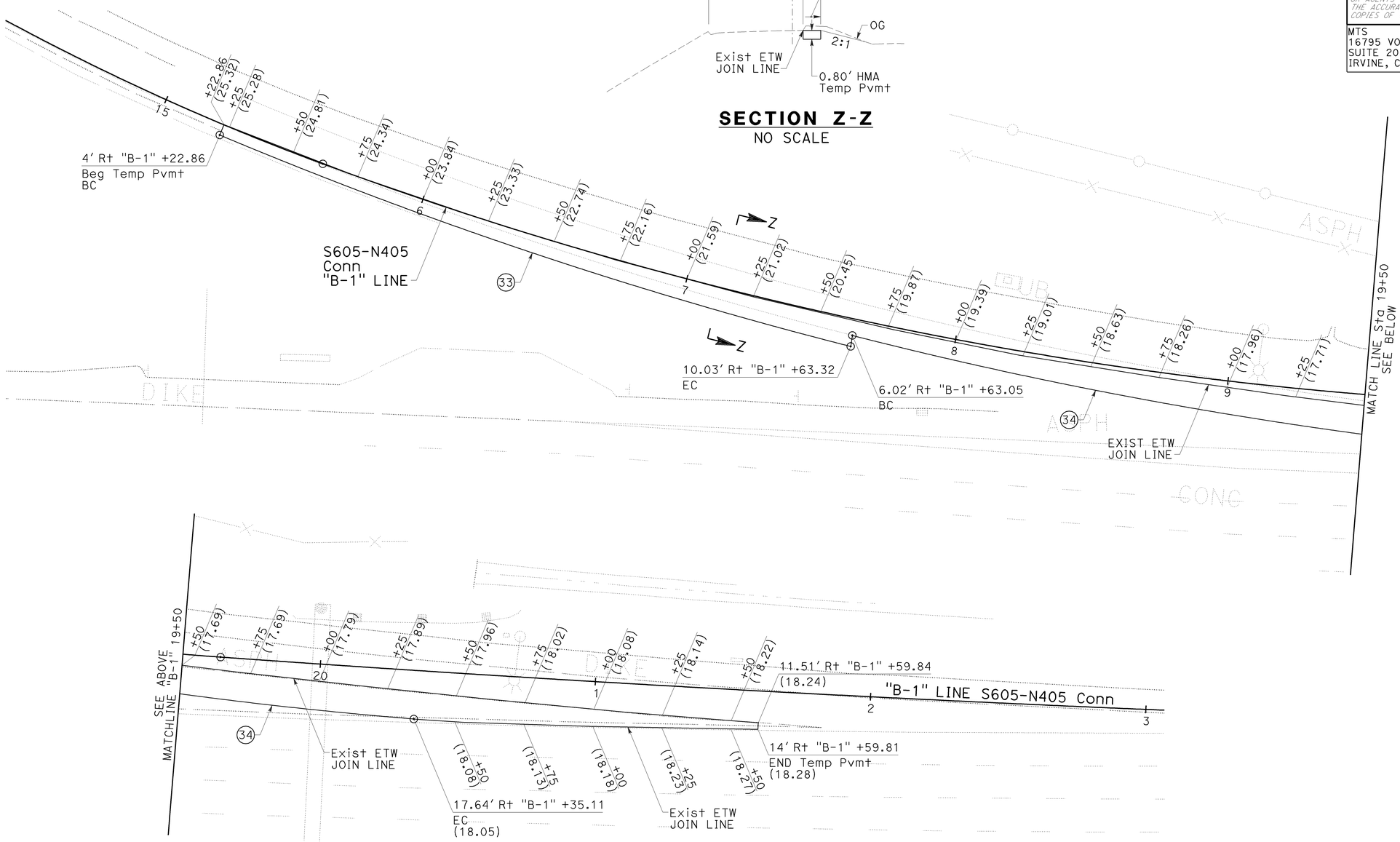


STAGE 1B.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: 1" = 20′

SCD-20

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

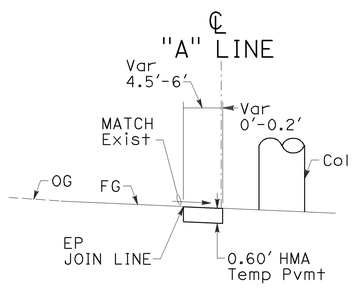
CALCULATED-DESIGNED BY	CHECKED BY
KELSIE ANDERSON	JULIET SU

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

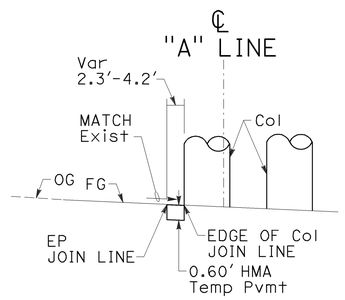
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 14:51
08-10-09

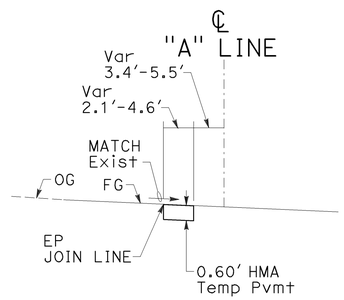
CURVE DATA				
No.	R	Δ	T	L
(35)	2001.00′	02°04′55"	36.36′	72.71′
(36)	1936.00′	02°09′13"	36.39′	72.77′
(37)	1936.00′	00°47′25"	13.35′	26.70′
(38)	1936.00′	03°15′06"	54.95′	109.87′
(39)	2008.00′	03°30′49"	61.59′	123.14′
(40)	2001.00′	00°29′00"	8.44′	16.88′



SECTION AA-AA
NO SCALE



SECTION BB-BB
NO SCALE



SECTION CC-CC
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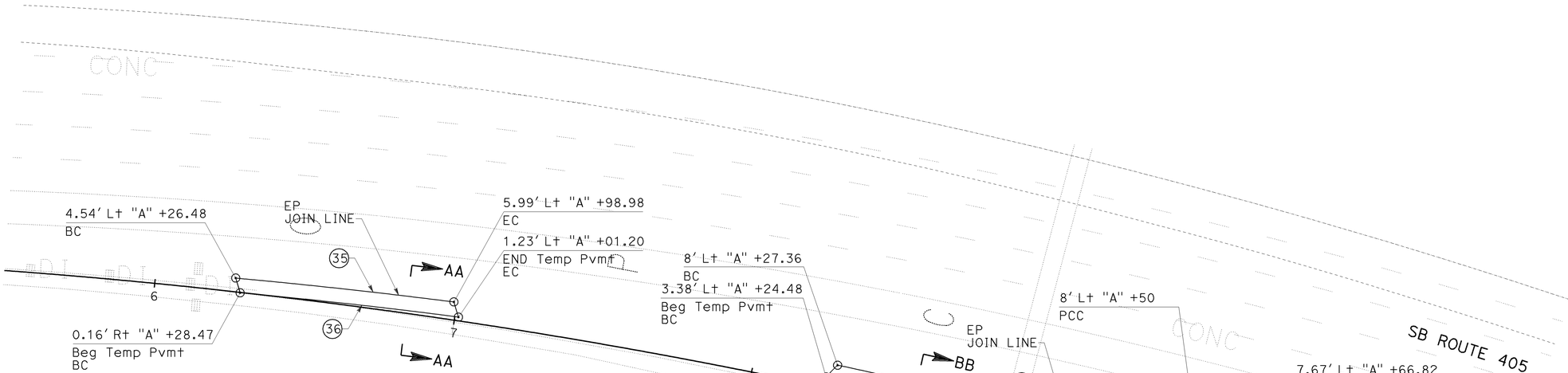


STAGE 1B.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: 1" = 20′

SCD-21

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	848	1929

REGISTERED CIVIL ENGINEER — DATE 12/22/09

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU — No. C56168 — Exp.12/31/10 — CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

REVISED BY	DATE REVISED
KLA	12/22/09

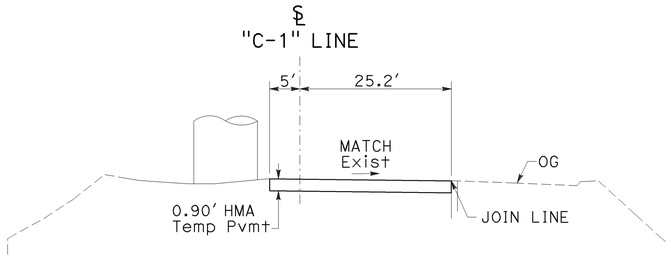
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

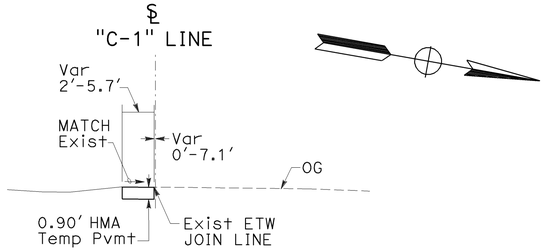
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION: DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 14:51

CURVE DATA				
No.	R	Δ	T	L
(41)	2,100.00′	03°44′52"	68.71′	137.36′
(42)	2,482.00′	08°25′39"	182.87′	366.07′
(43)	2,475.00′	02°05′04"	45.03′	90.05′



SECTION DD-DD
NO SCALE



SECTION EE-EE
NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	849	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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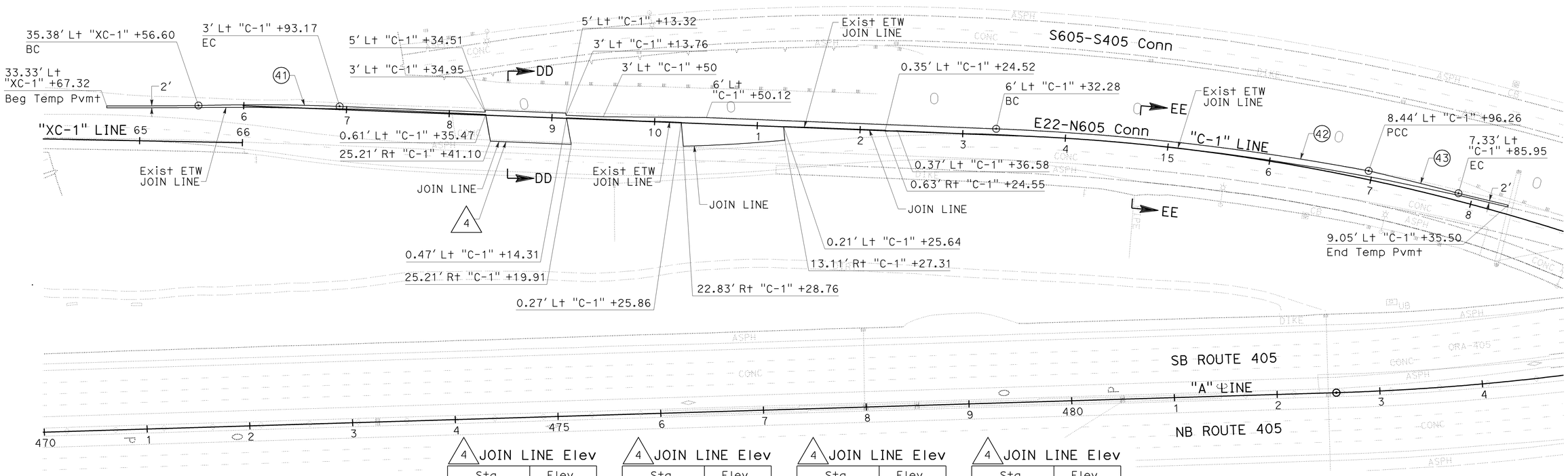
550 S. MAIN STREET
ORANGE, CA 92863-1584



4 JOIN LINE Elev

Sta	Elev
64+67.40	(42.97)
64+75	(43.04)
65+00	(43.24)
65+25	(43.35)
65+50	(43.53)
65+75	(43.77)
66+00	(43+95)
6+00	(43.96)
6+25	(44.12)
6+50	(44.29)
6+75	(44.31)
7+00	(44.29)
7+25	(44.33)
7+50	(44.53)
7+75	(44.60)
8+00	(44.78)
8+25	(44.93)

4 JOIN LINE Elev

Sta	Elev
8+50	(44.82)
8+75	(45.00)
9+00	(45.25)
9+25	(45.64)
9+50	(45.94)
9+75	(46.17)
10+00	(46.43)
10+25	(46.60)
10+50	(46.61)
10+75	(46.75)
11+00	(46.92)
11+25	(47.07)
11+50	(47.42)
11+75	(47.57)
12+00	(47.64)
12+25	(47.63)
12+50	(47.68)

4 JOIN LINE Elev

Sta	Elev
12+75	(47.77)
13+00	(47.89)
13+25	(47.92)
13+50	(47.94)
13+75	(47.96)
14+00	(47.96)
14+25	(47.96)
14+50	(47.95)
14+75	(47.96)
15+00	(48.00)
15+25	(48.16)
15+50	(48.28)
15+75	(48.29)
16+00	(48.32)
16+25	(48.50)
16+50	(48.50)
16+75	(48.50)

4 JOIN LINE Elev

Sta	Elev
17+00	(48.52)
17+25	(48.57)
17+50	(48.65)
17+75	(48.85)
18+00	(49.00)
18+25	(49.08)
18+35.59	(49.12)

STAGE 1B.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: 1" = 50′

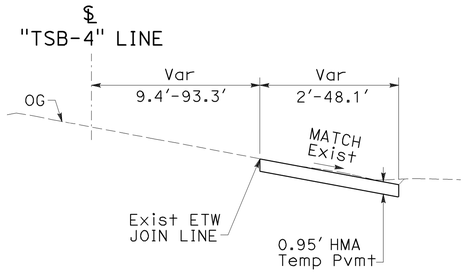
SCD-22

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

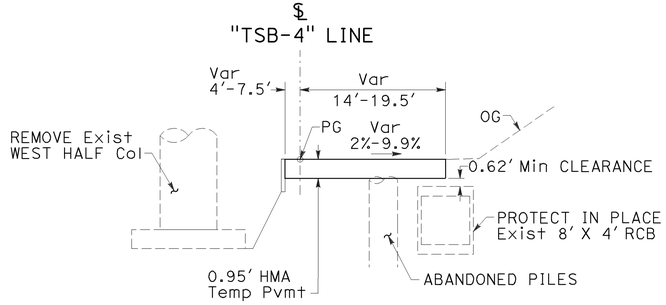
REVISED BY	KLA	12/22/09
DATE REVISED		
CALCULATED-DESIGNED BY	KELSIE ANDERSON	
CHECKED BY	JULIET SU	
CONSULTANT FUNCTIONAL SUPERVISOR	LEONARD SEQUEIRA	
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Gates	

LAST REVISION 08-10-09 | DATE PLOTTED => 03-FEB-2010 | TIME PLOTTED => 14:51

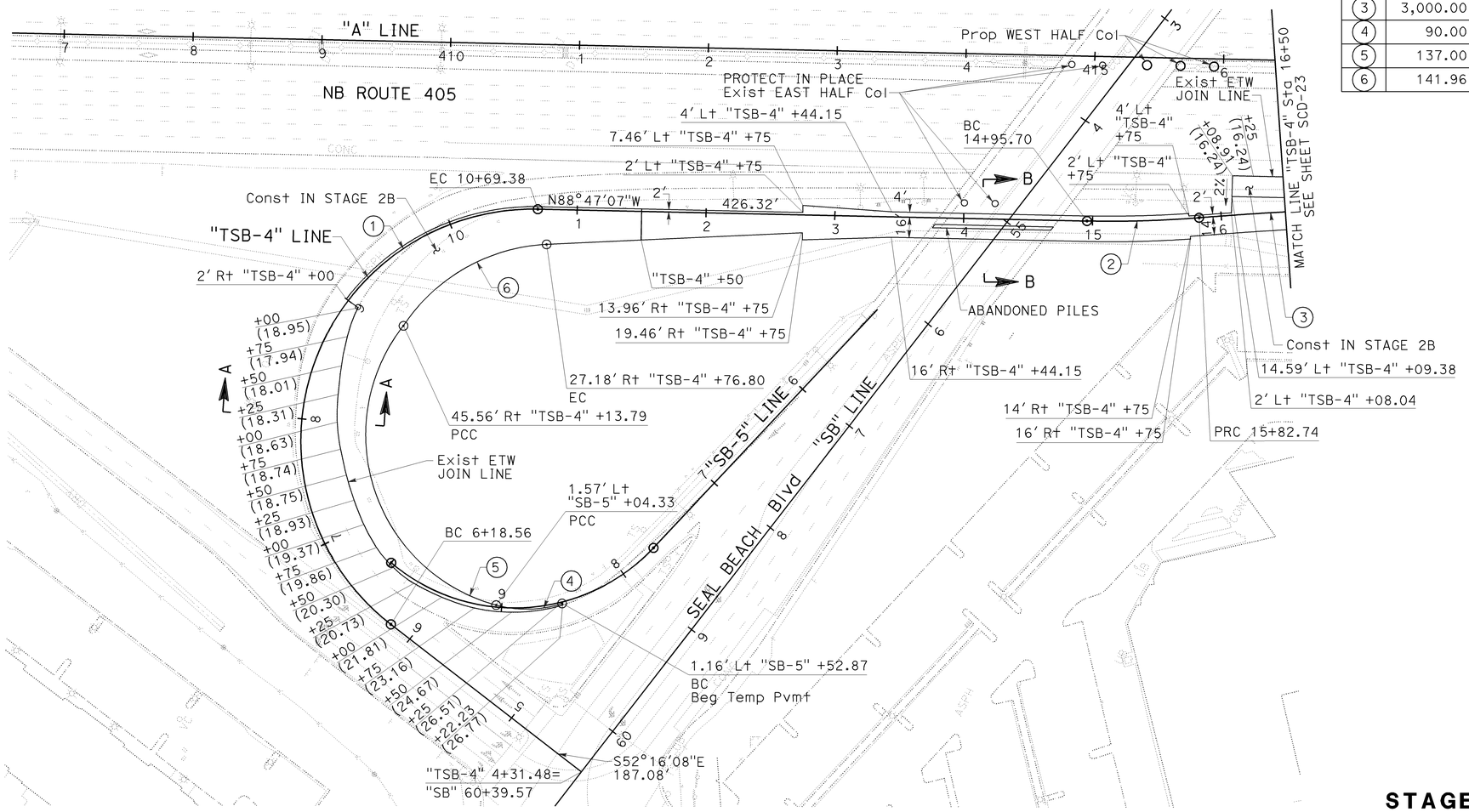
BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s135318 | DGN FILE => c07163mb022.dgn | CU 12235 | EA 071631



SECTION A-A
NO SCALE



SECTION B-B
NO SCALE



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	850	1929

REGISTERED CIVIL ENGINEER — DATE 12/22/09

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
PLANS APPROVAL DATE

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SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

CURVE DATA				
No.	R	Δ	T	L
1	180.00'	143°30'01"	545.87'	450.82'
2	860.00'	05°47'56"	43.56'	87.04'
3	3,000.00'	03°11'36"	83.62'	167.20'
4	90.00'	33°03'04"	26.70'	51.92'
5	137.00'	112°58'04"	206.86'	270.12'
6	141.96'	53°29'50"	71.55'	132.55'

STAGE 2A
"TSB-4" LINE (Temp NB SEAL BEACH ON-RAMP)
STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: 1" = 50'

SCD-23

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

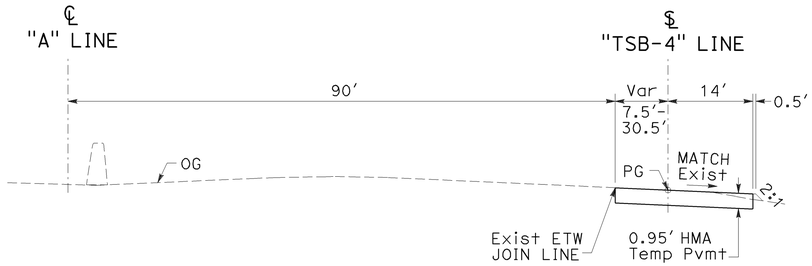
REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

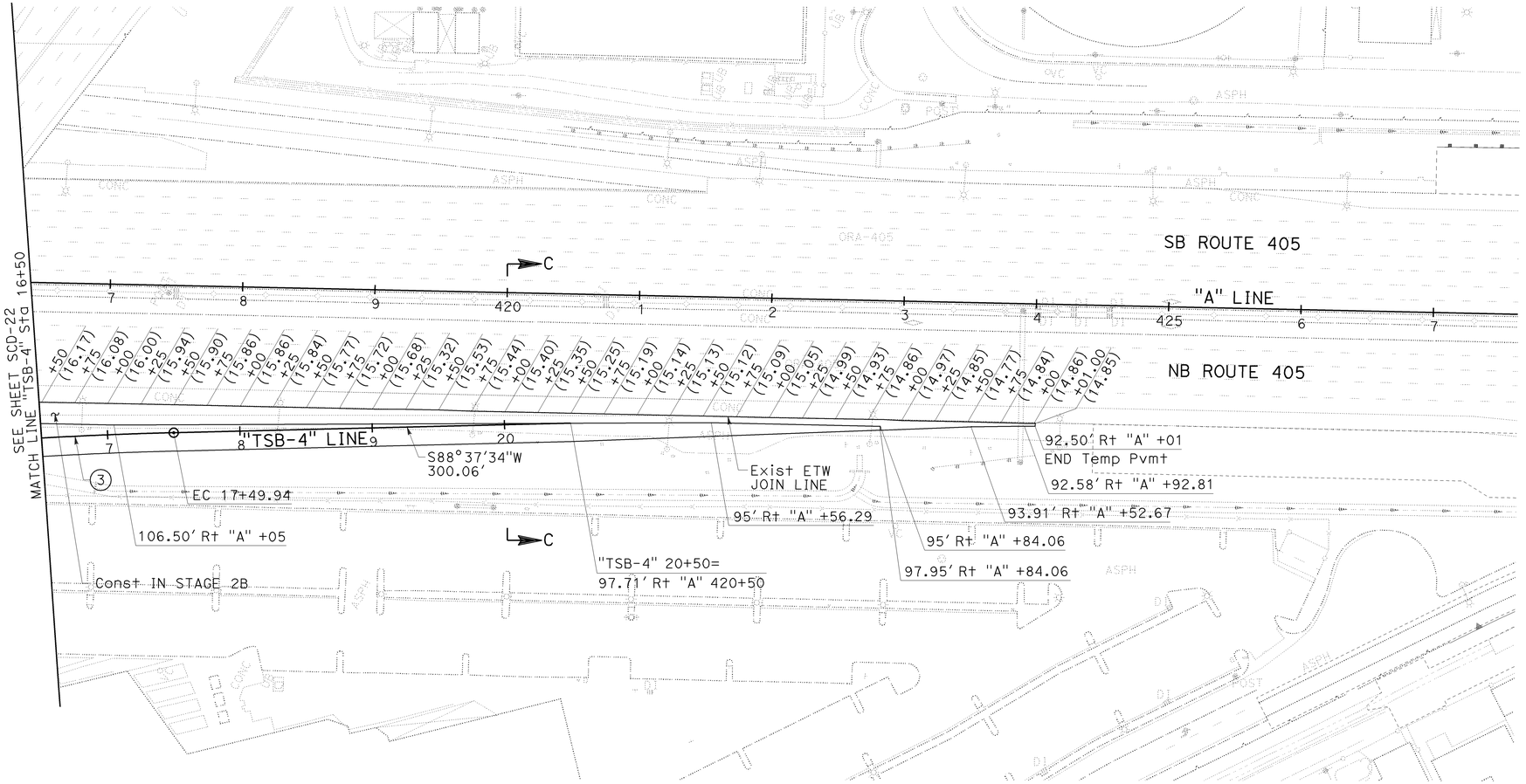
LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 14:51
08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s135318 DGN FILE => c07163mb023.dgn | CU 12235 | EA 071631

CURVE DATA				
No.	R	Δ	T	L
(3)	3000.00′	03°11′36"	83.62′	167.20′



SECTION C-C
NO SCALE



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	851	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

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SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

STAGE 2A

"TSB-4" LINE (Temp NB SEAL BEACH ON-RAMP)
STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: 1" = 50′

SCD-24

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:34
08-10-09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmariak
DGN FILE => c07163mb024.dgn
CU 12235
EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	852	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

MTS
16795 VON KARMAN AVE
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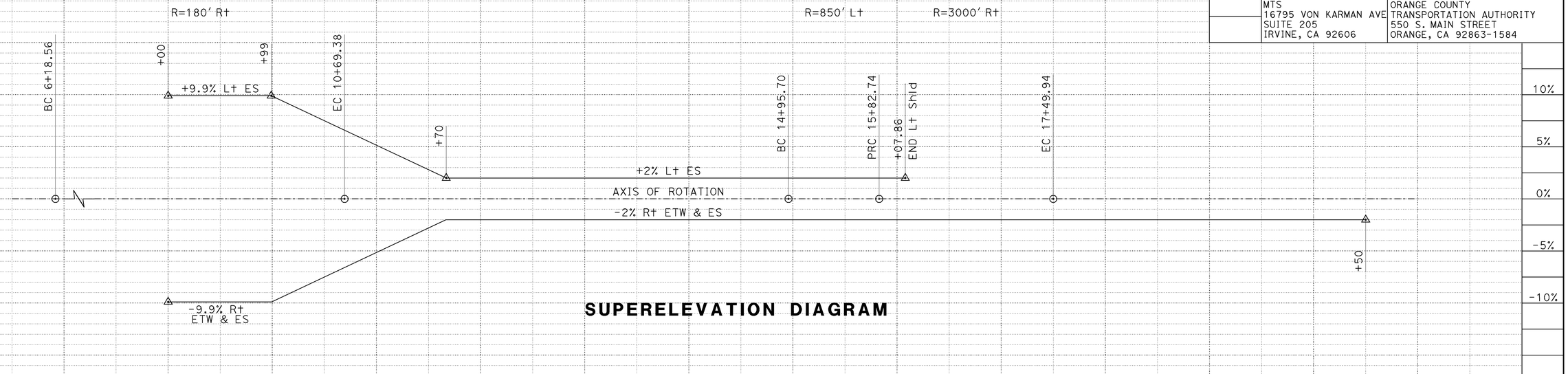
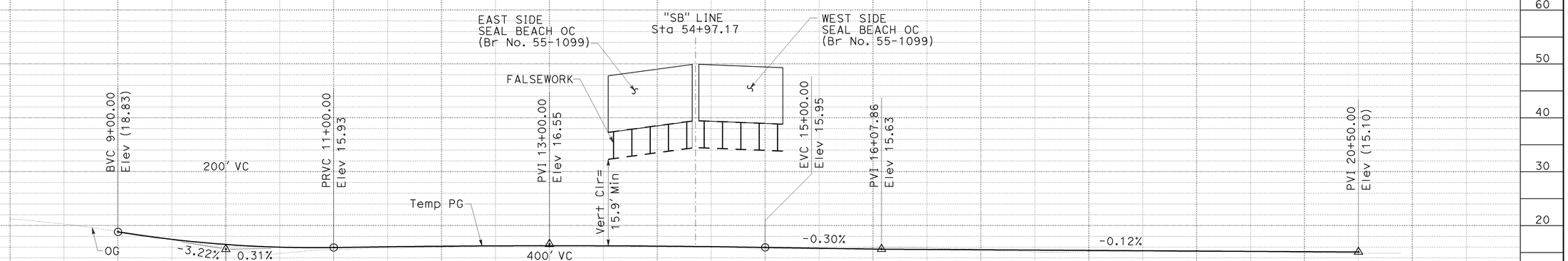
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584



SUPERELEVATION DIAGRAM



PROFILE

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 2A

"TSB-4" LINE (Temp NB SEAL BEACH ON-RAMP)

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: Horiz 1" = 50'
Vert 1" = 10'

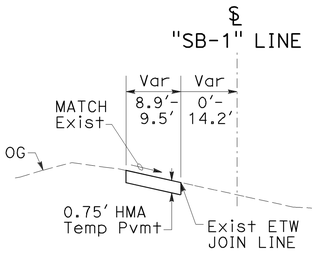
SCD-25

STATION	8	9	10	1	2	3	4	15	6	7	8	9	20	1	TOTAL
CY Exc															
CY Emb															

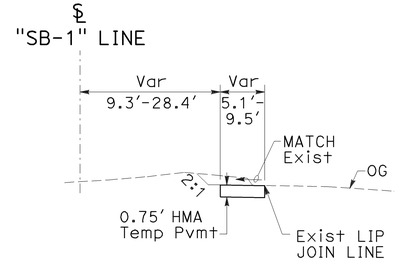
REVISED BY: KLA — DATE REVISED: 12/22/09
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:34
08-10-09

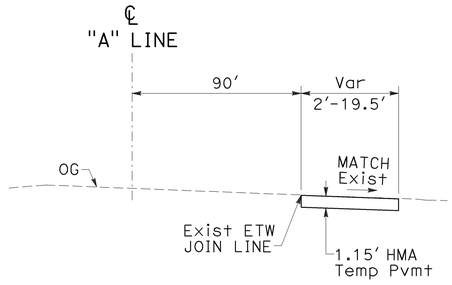
BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmariak | DGN FILE => c07163mb025.dgn | CU 12235 | EA 071631



SECTION D-D
NO SCALE



SECTION E-E
NO SCALE



SECTION F-F
NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	853	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
PLANS APPROVAL DATE

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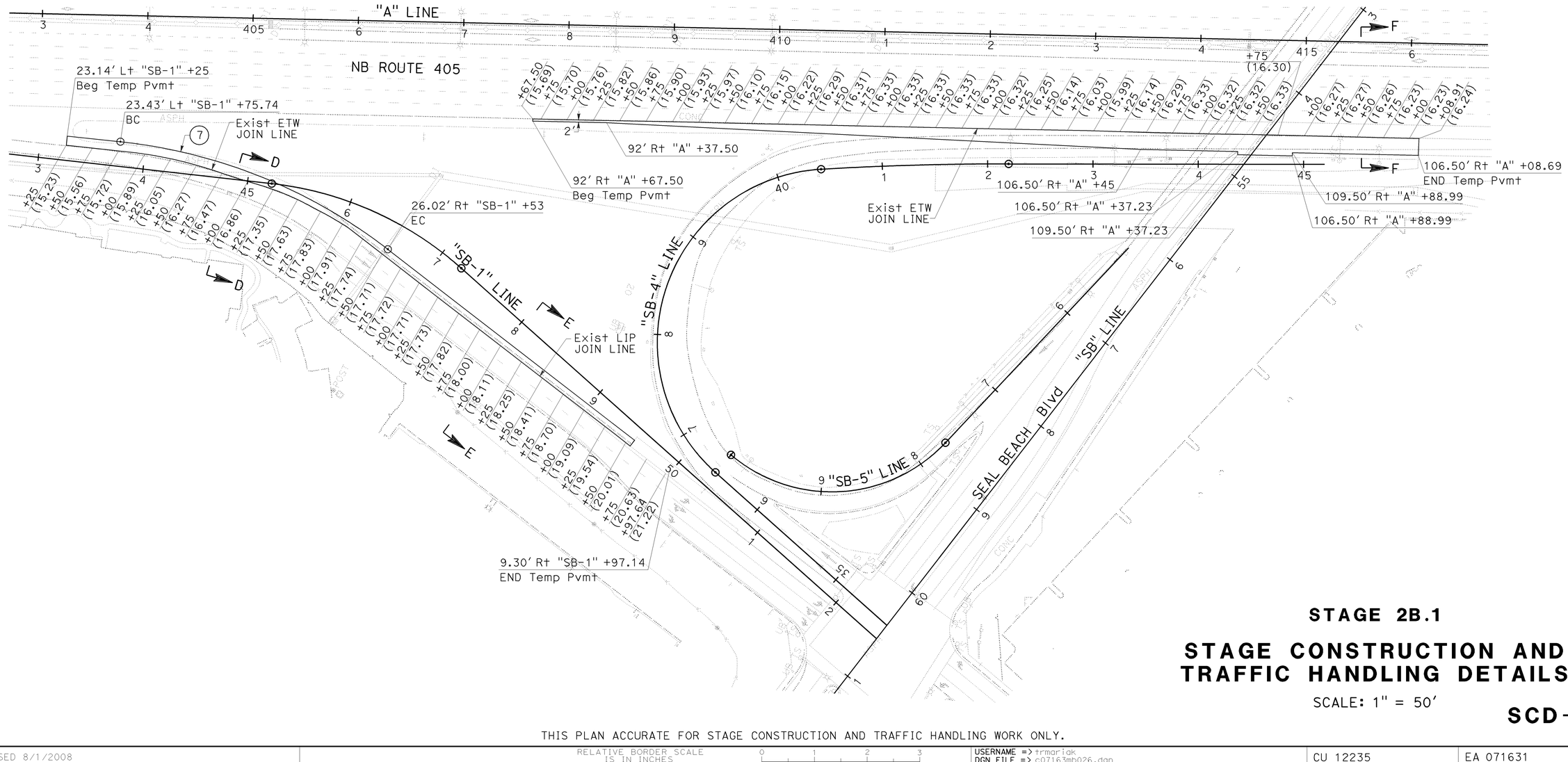
ORANGE, CA 92863-1584

CURVE DATA				
No.	R	Δ	T	L
(7)	502.00'	31°37'51"	142.20'	277.13'



STAGE 2B.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: 1" = 50'

SCD-26

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU

REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION — DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 13:34

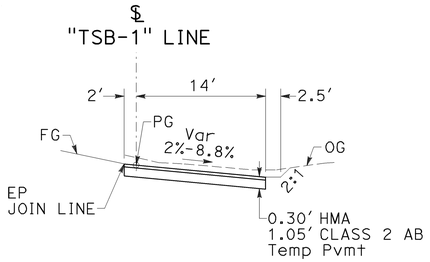
BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

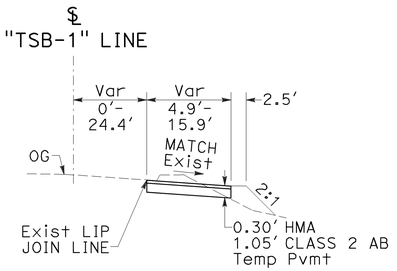
USERNAME => trmariak
DGN FILE => c07163mb026.dgn

CU 12235

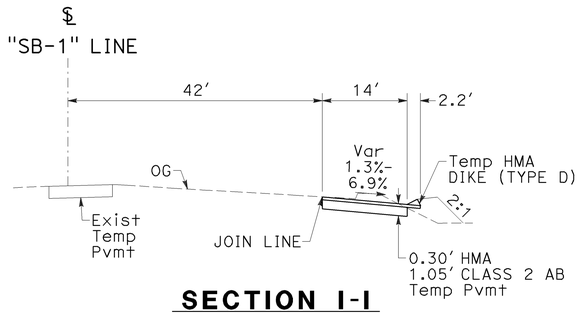
EA 071631



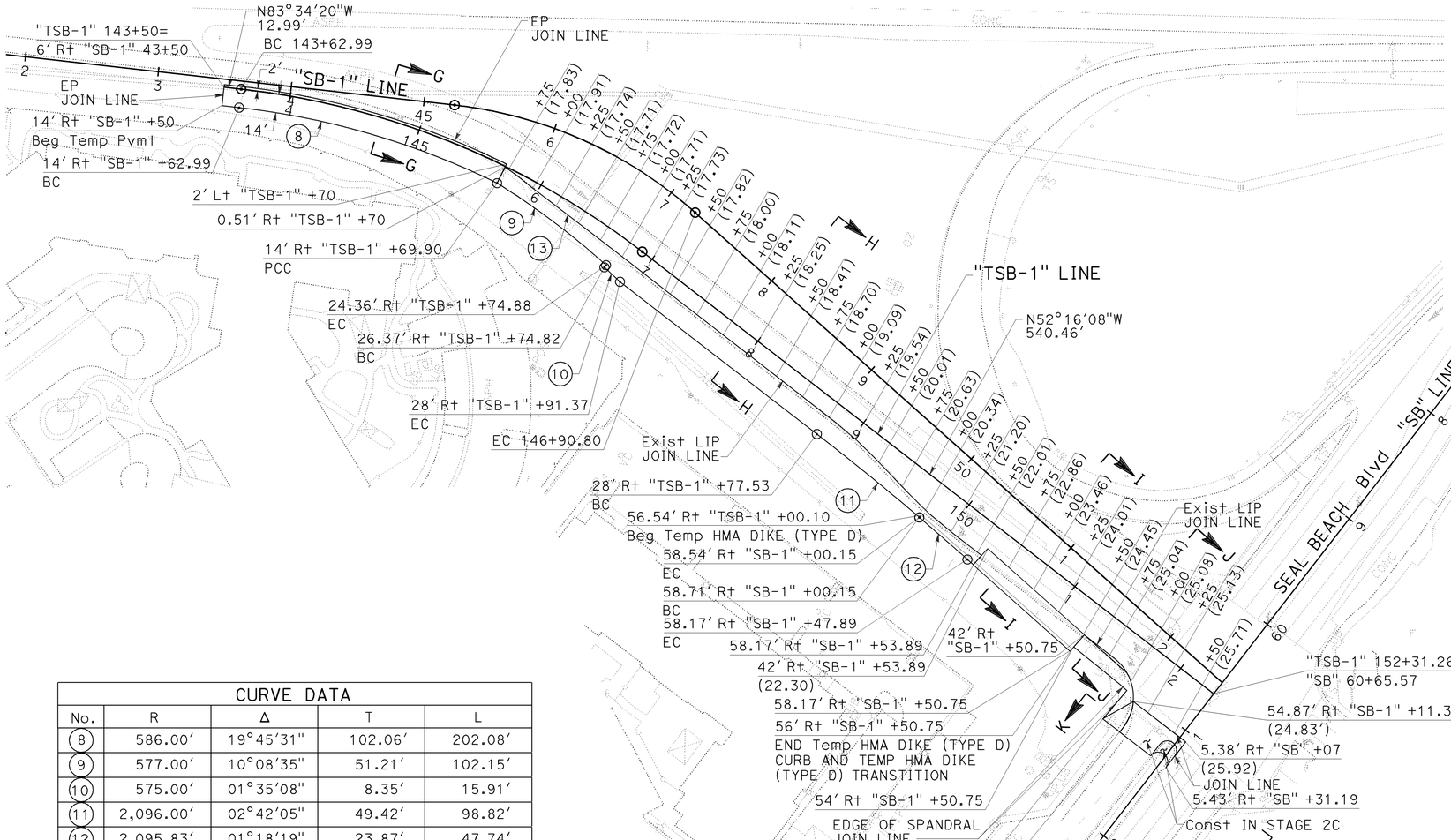
SECTION G-G
NO SCALE



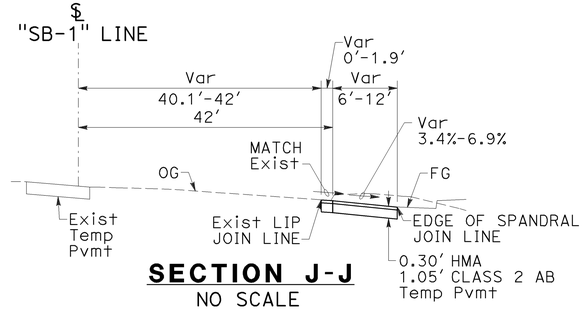
SECTION H-H
NO SCALE



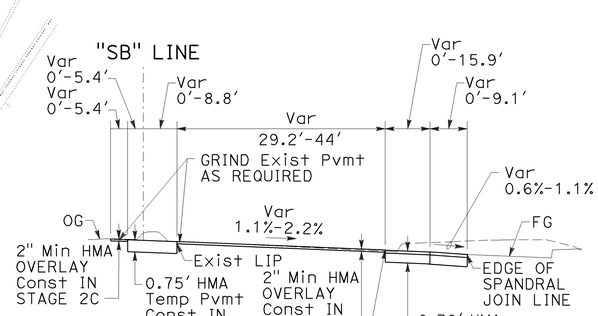
SECTION I-I
NO SCALE



CURVE DATA				
No.	R	Δ	T	L
(8)	586.00'	19°45'31"	102.06'	202.08'
(9)	577.00'	10°08'35"	51.21'	102.15'
(10)	575.00'	01°35'08"	8.35'	15.91'
(11)	2,096.00'	02°42'05"	49.42'	98.82'
(12)	2,095.83'	01°18'19"	23.87'	47.74'
(13)	600.00'	31°18'12"	168.11'	327.81'



SECTION J-J
NO SCALE



SECTION K-K
NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	854	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU
No. C56168
Exp.12/31/10
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

2-1-10
PLANS APPROVAL DATE

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SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

STAGE 2B.1
"TSB-1" LINE (Temp NB SEAL BEACH OFF-RAMP)
STAGE CONSTRUCTION
TRAFFIC HANDLING DETAILS

SCALE: 1" = 50'

SCD-27

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION: 08-10-09
DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:34

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmariak
DGN FILE => c07163mb027.dgn
CU 12235
EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	855	1929

REGISTERED CIVIL ENGINEER 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp. 12/31/10
CIVIL
STATE OF CALIFORNIA

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ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY	CHECKED BY
KELSIE ANDERSON	JULIET SU

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®

SUPERELEVATION DIAGRAM

PROFILE

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATION	3	4	145	6	TOTAL
CY Exc					
CY Emb					

STAGE 2B.1
"TSB-1" LINE (Temp NB SEAL BEACH OFF-RAMP)

STAGE CONSTRUCTION TRAFFIC HANDLING DETAILS

SCALE: Horiz 1" = 50'
Vert 1" = 10'

SCD-28

LAST REVISION 08-10-09 | DATE PLOTTED => 03-FEB-2010 | TIME PLOTTED => 13:34

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	856	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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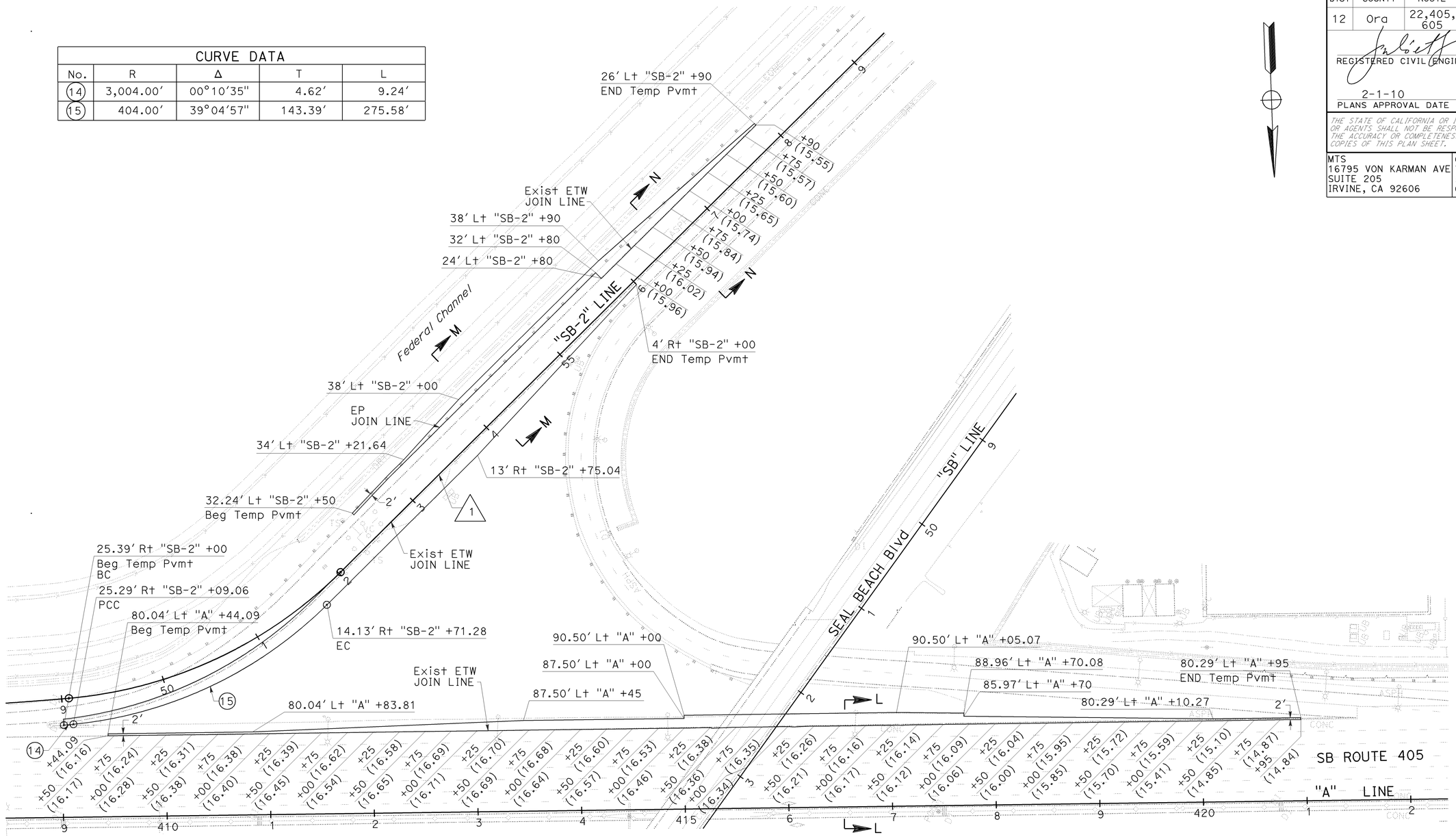
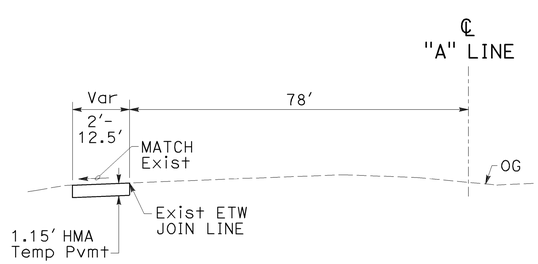
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

CURVE DATA				
No.	R	Δ	T	L
(14)	3,004.00′	00°10′35"	4.62′	9.24′
(15)	404.00′	39°04′57"	143.39′	275.58′

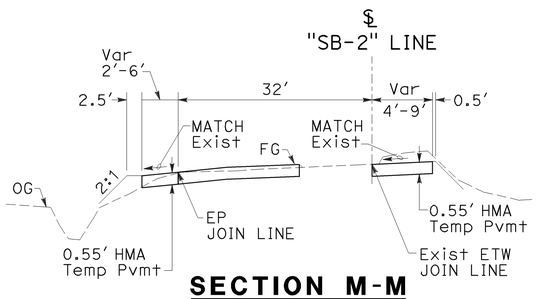


1 JOIN LINE Elev

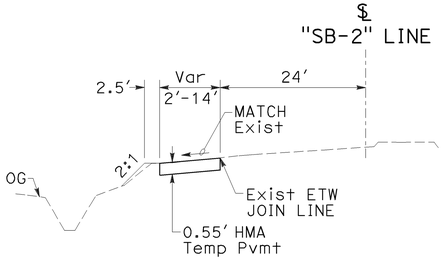
Sta	Elev
49+00	(15.89)
49+25	(16.10)
49+50	(16.21)
49+75	(16.31)
50+00	(16.35)
50+25	(16.38)
50+50	(16.40)
50+75	(16.36)
51+00	(16.37)
51+25	(16.27)
51+50	(16.33)
51+75	(16.28)
52+00	(16.27)
52+25	(16.26)
52+50	(16.25)
52+75	(16.18)
53+00	(16.42)
53+25	(16.52)
53+50	(16.54)
53+75	(16.54)
54+00	(16.57)
54+25	(16.80)
54+50	(16.83)
54+75	(16.85)
55+00	(16.94)
55+25	(16.91)
55+50	(16.89)
55+75	(16.81)
56+00	(16.84)



SECTION L-L
NO SCALE



SECTION M-M
NO SCALE



SECTION N-N
NO SCALE

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 2B.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: 1" = 50′

SCD-29

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:34
08-10-09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmariak
DGN FILE => c07163mb029.dgn
CU 12235
EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	857	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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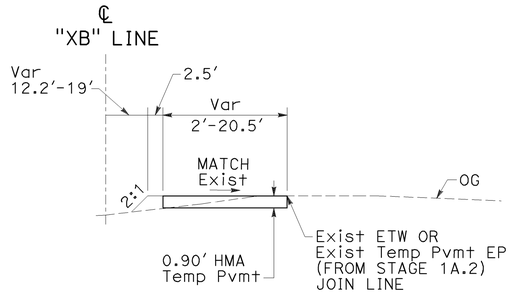
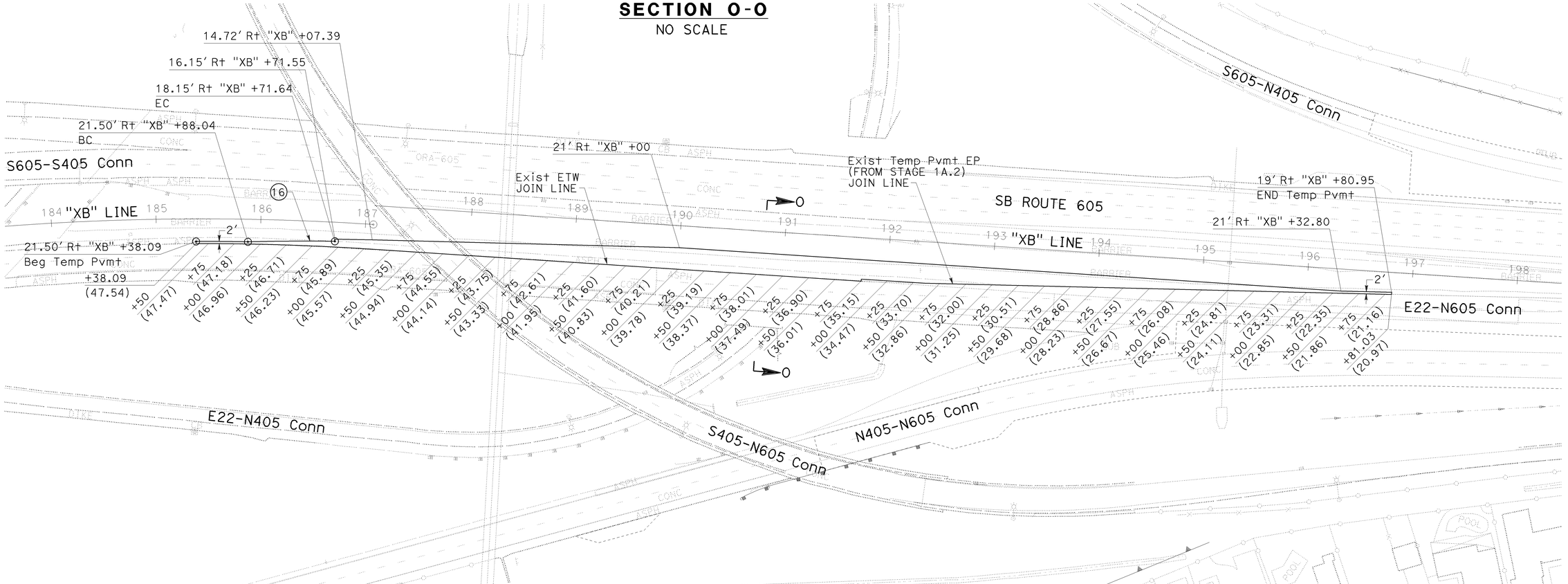
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

CURVE DATA				
No.	R	Δ	T	L
(16)	2,476.88′	01°55′12"	41.50′	83.00′



SECTION O-O
NO SCALE



STAGE 2B.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: 1" = 50′

SCD-30

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 08-10-09 | DATE PLOTTED => 03-FEB-2010 | TIME PLOTTED => 13:35

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmariak | DGN FILE => c07163mb030.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	858	1929

REGISTERED CIVIL ENGINEER — DATE 12/22/09

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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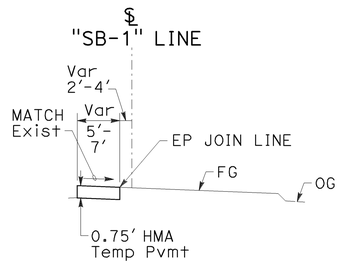
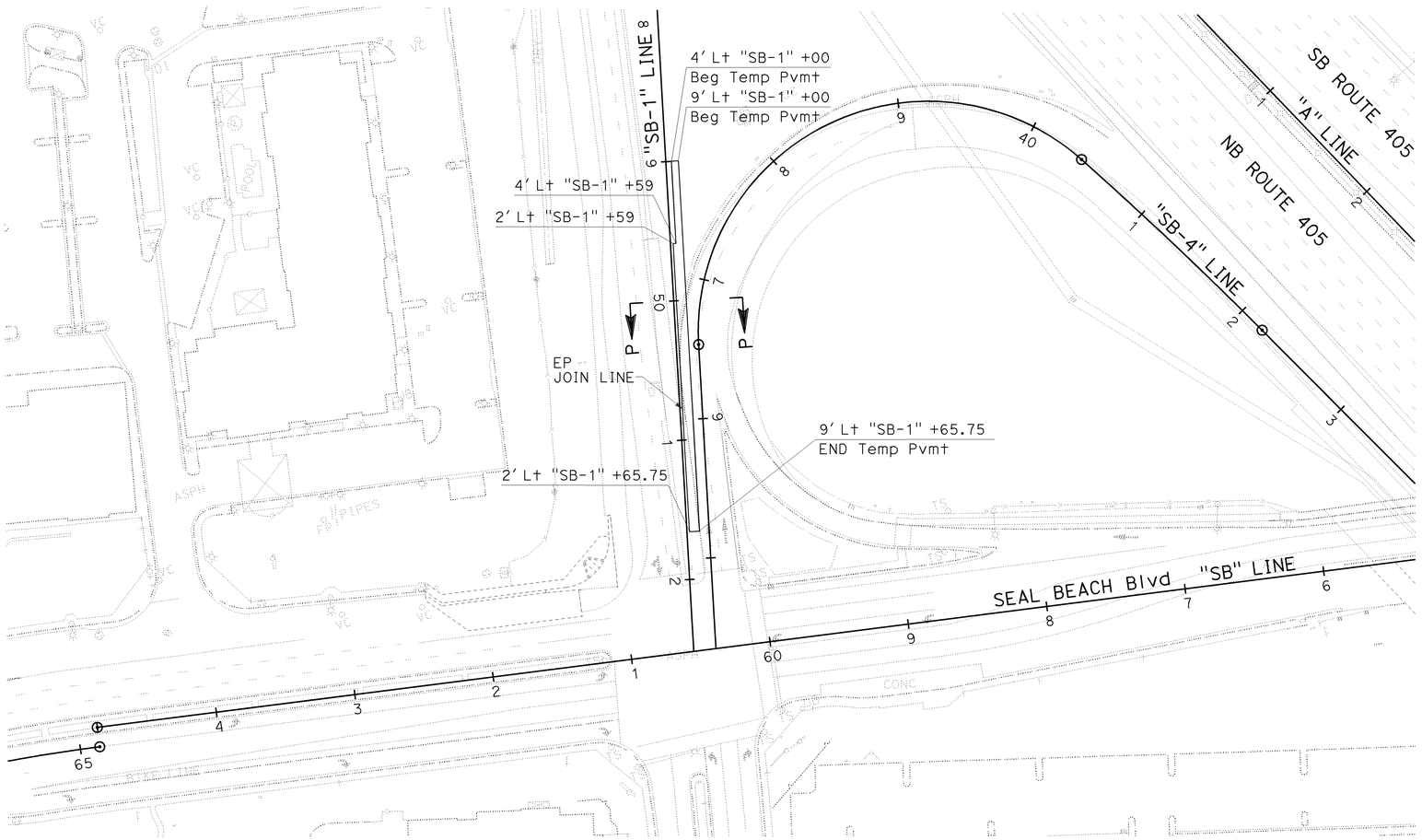


SECTION P-P
NO SCALE



STAGE 2C.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: 1" = 50'

SCD-31

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION | DATE PLOTTED => 03-FEB-2010
08-10-09 | TIME PLOTTED => 13:35

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmariak | DGN FILE => c07163mb031.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	859	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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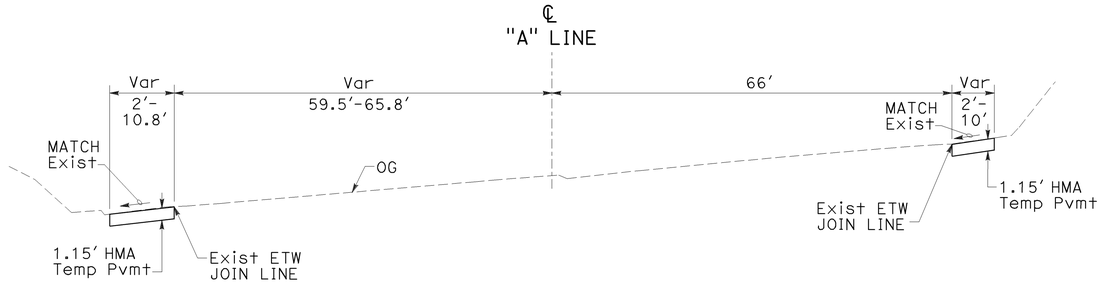
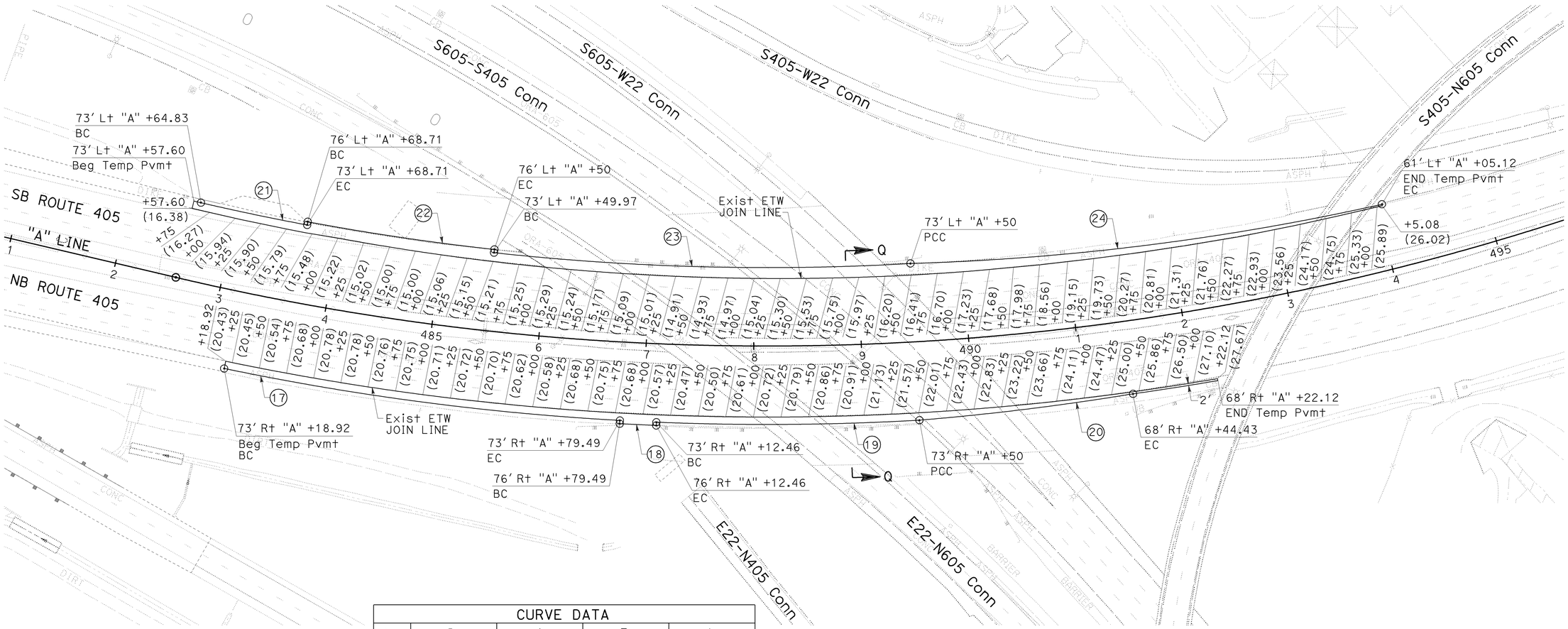
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584



SECTION Q-Q

NO SCALE



CURVE DATA				
No.	R	Δ	T	L
(17)	2,473.00′	08°36′28"	186.12′	371.53′
(18)	2,467.00′	00°47′14"	17.01′	34.02′
(19)	2,473.00′	05°40′15"	122.48′	244.77′
(20)	2,466.99′	04°38′59"	100.16′	200.21′
(21)	2,327.00′	02°29′06"	50.47′	100.92′
(22)	2,324.00′	04°19′46"	87.85′	175.61′
(23)	2,327.00′	09°33′00"	387.86′	194.38′
(24)	2,332.01′	10°52′26"	221.96′	442.58′

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 2C.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

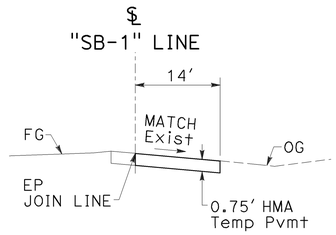
SCALE: 1" = 50′

SCD-32

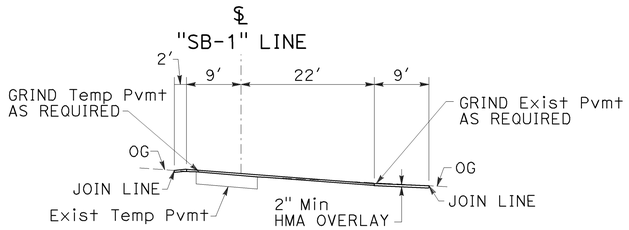
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
DRAWN BY
REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 13:35
08-10-09

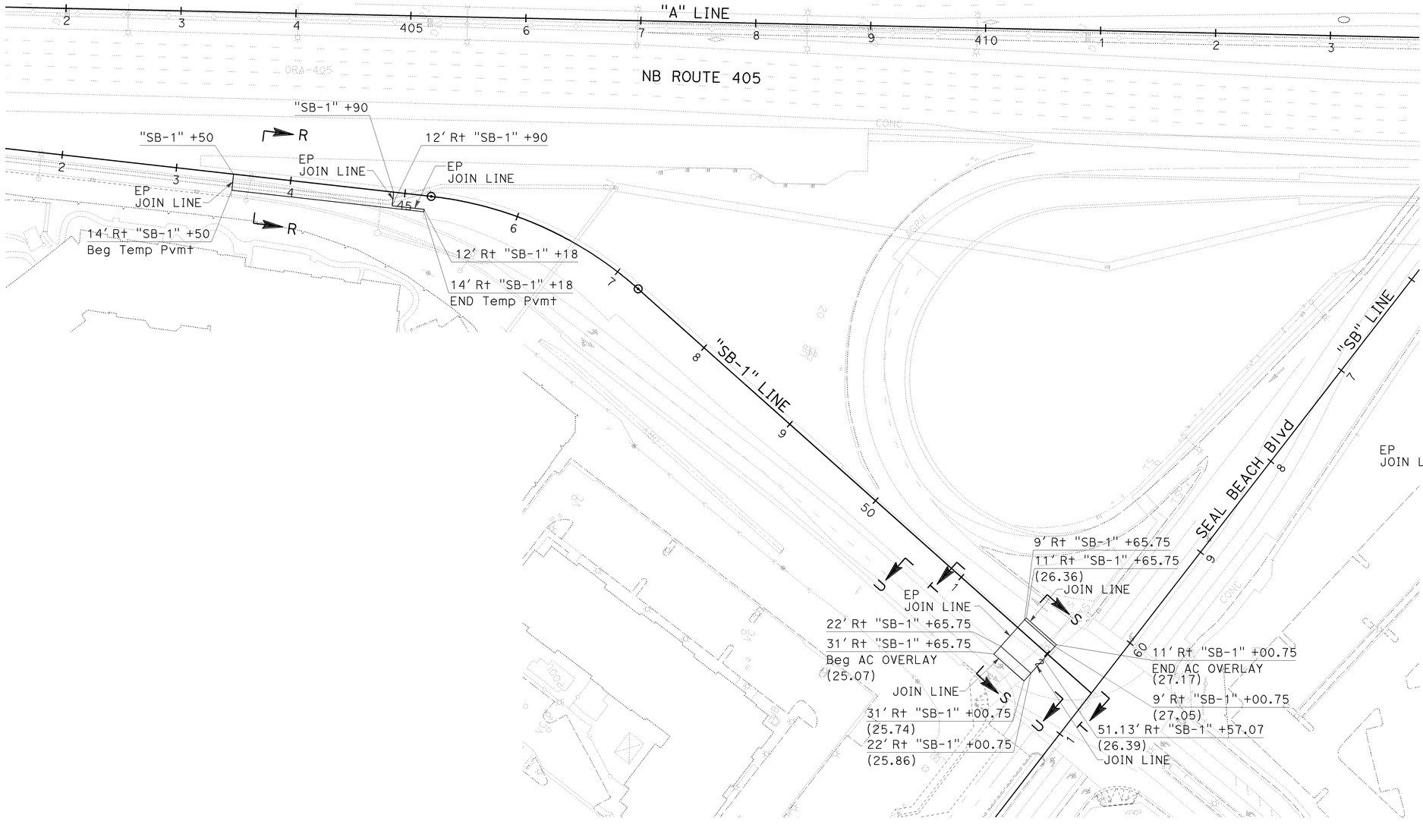
BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmariak
DGN FILE => c07163mb032.dgn
CU 12235
EA 071631

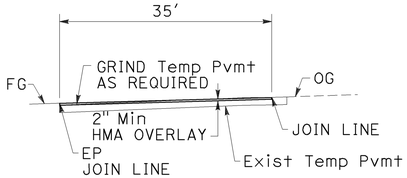


SECTION R-R
NO SCALE

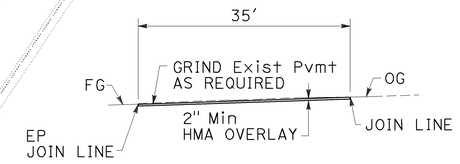


SECTION S-S
NO SCALE





SECTION T-T
NO SCALE



SECTION U-U
NO SCALE

STAGE 2D.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: 1" = 50'

SCD-33

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	860	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

REVISED BY	DATE REVISED
KLA	12/22/09

KELSIE ANDERSON — CALCULATED-DESIGNED BY
JULIET SU — CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR
LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 13:35

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	861	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
PLANS APPROVAL DATE

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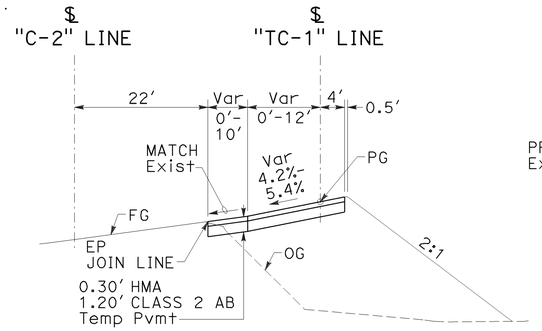
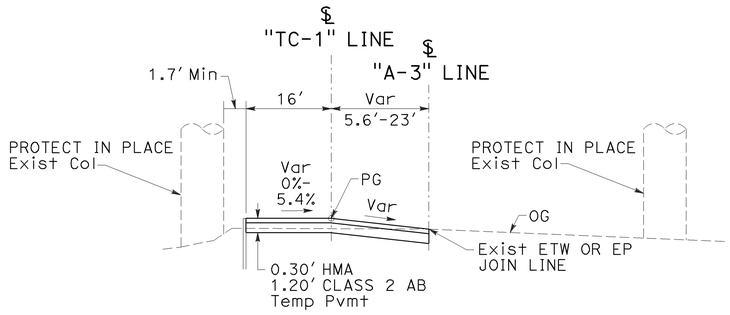
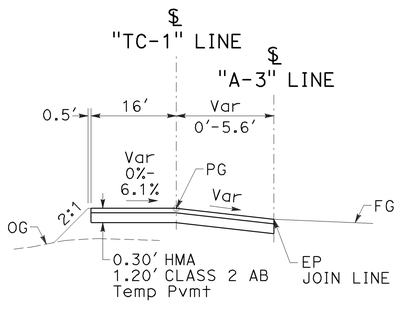


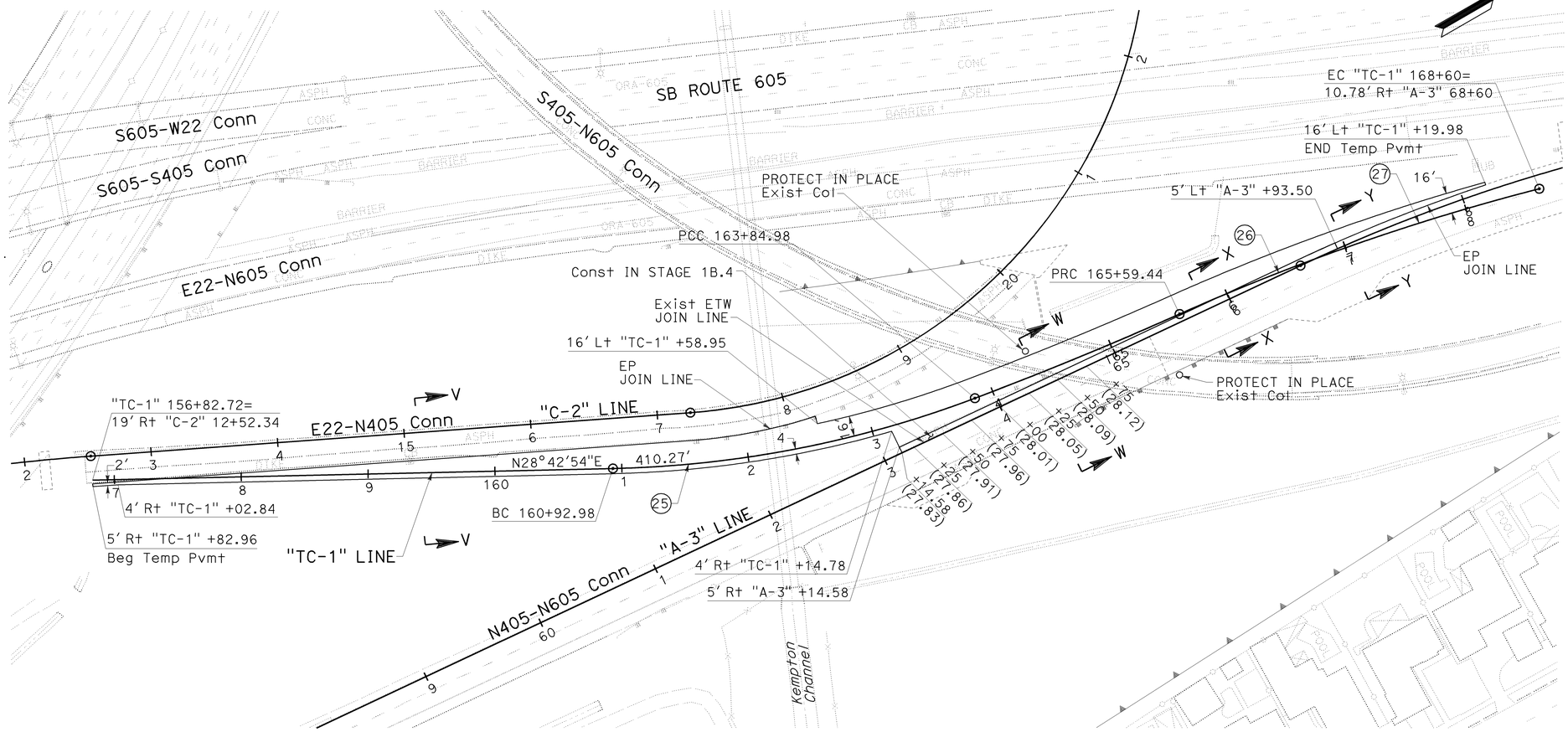
SECTION V-V
NO SCALE

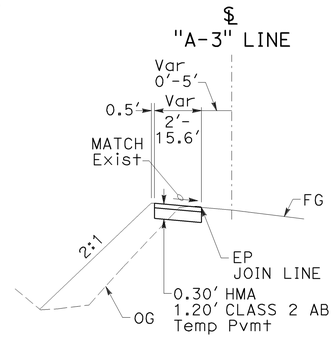


SECTION W-W
NO SCALE



SECTION X-X
NO SCALE





SECTION Y-Y
NO SCALE

CURVE DATA				
No.	R	Δ	T	L
(25)	862.00'	19°24'31"	147.41'	292.00'
(26)	3,000.00'	3°19'54"	87.25'	174.45'
(27)	1,787.00'	9°38'13"	150.64'	300.21'

STAGE 2D.1

"TC-1" LINE (Temp E22-N605 Conn)

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: 1" = 50'

SCD-34

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

REVISED BY	DATE REVISED
KLA	12/22/09

LAST REVISION DATE PLOTTED => 04-FEB-2010
08-10-09 TIME PLOTTED => 06:40

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmartin
DGN FILE => c07163mb034.dgn
CU 12235
EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	862	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
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STATE OF CALIFORNIA

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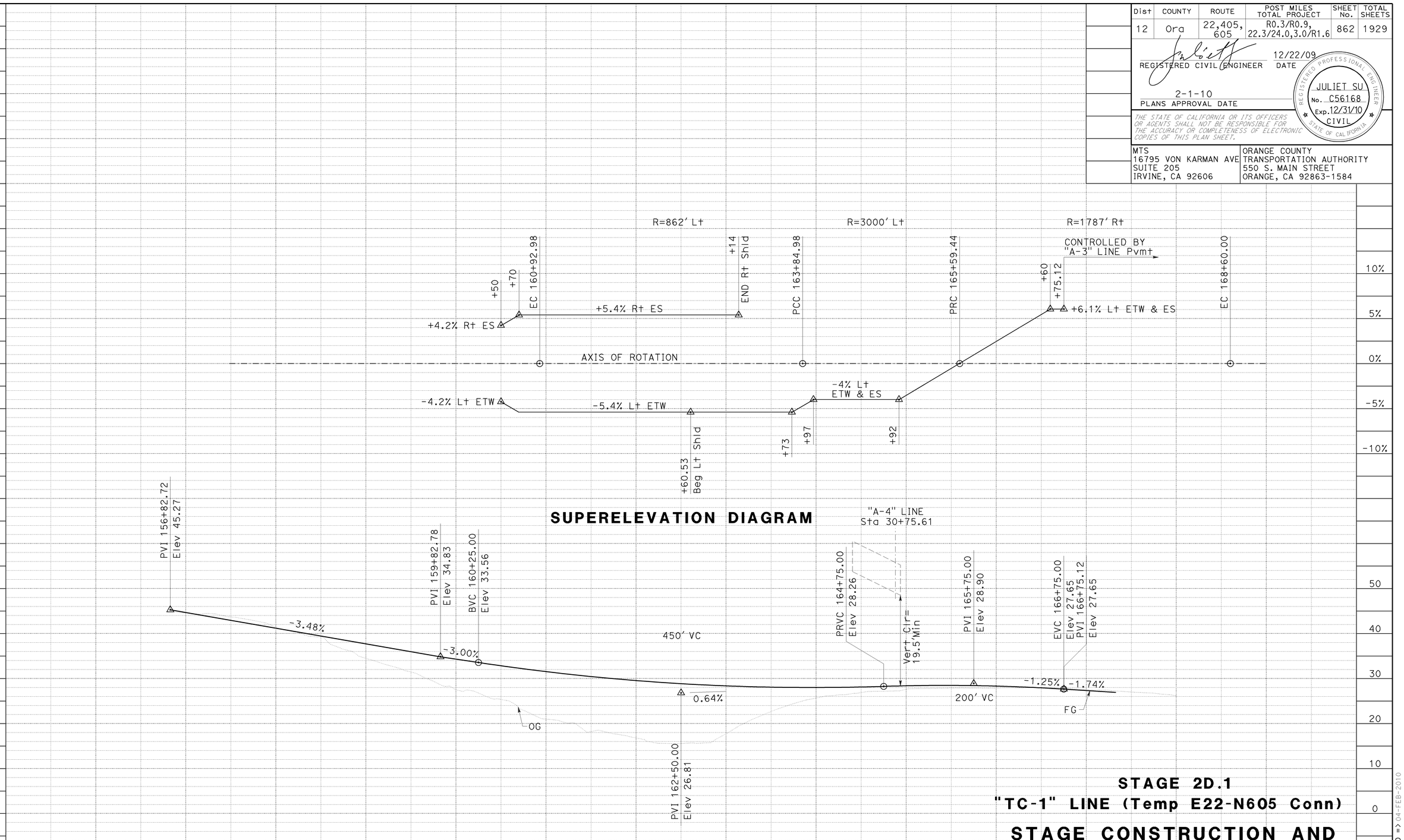
REVISED BY: KLA — DATE REVISED: 12/22/09
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans



SUPERELEVATION DIAGRAM

PROFILE

STAGE 2D.1
"TC-1" LINE (Temp E22-N605 Conn)

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: Horiz 1" = 50'
Vert 1" = 10'

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

SCD-35

STATION	6	7	8	9	160	1	2	3	4	165	6	7	8	TOTAL
CY Exc														
CY Emb														

LAST REVISION DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 06:40

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmartin
DGN FILE => c07163mb035.dgn

CU 12235

EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	863	1929

REGISTERED CIVIL ENGINEER 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JULIET SU No. C56168 Exp. 12/31/10 CIVIL STATE OF CALIFORNIA

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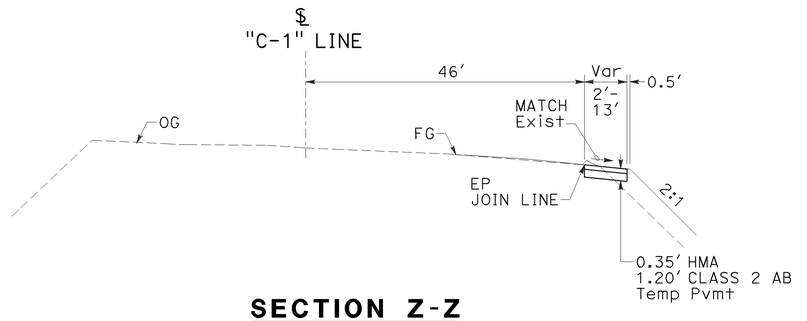
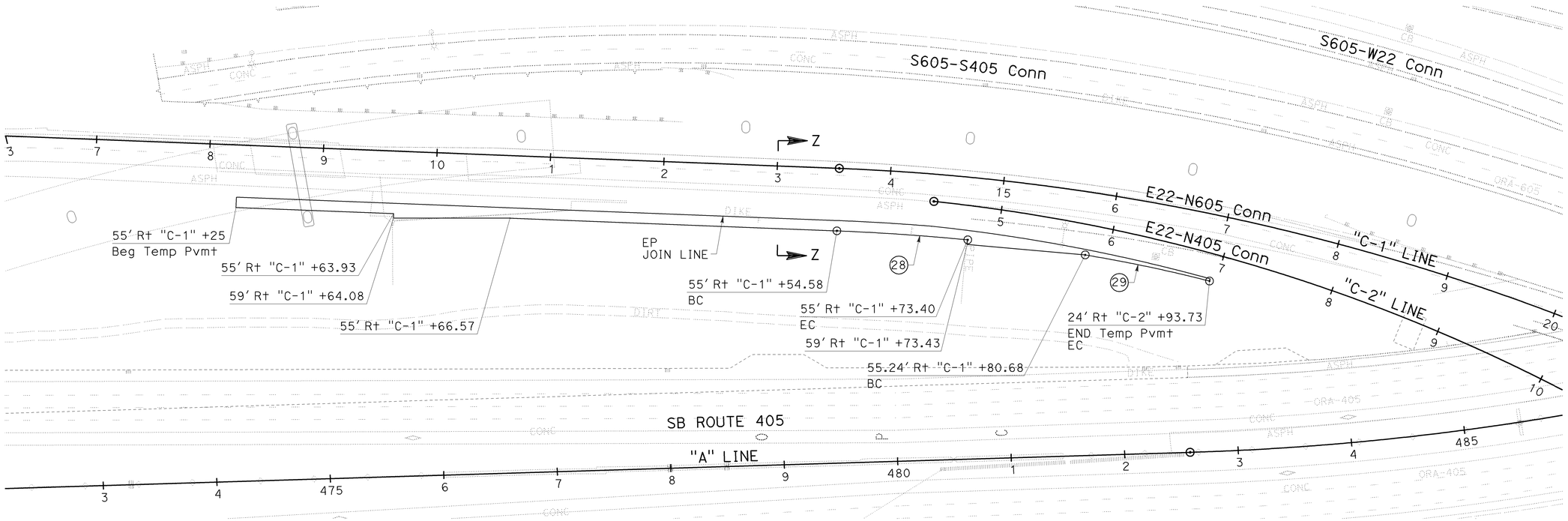
ORANGE, CA 92863-1584

CURVE DATA				
No.	R	Δ	T	L
28	1,945.00′	03°24′13"	57.79′	115.55′
29	1,274.00′	05°02′02"	56.00′	111.93′



SECTION Z-Z
NO SCALE



STAGE 2D.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: 1" = 50′

SCD-36

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION 08-10-09
DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 06:40

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	864	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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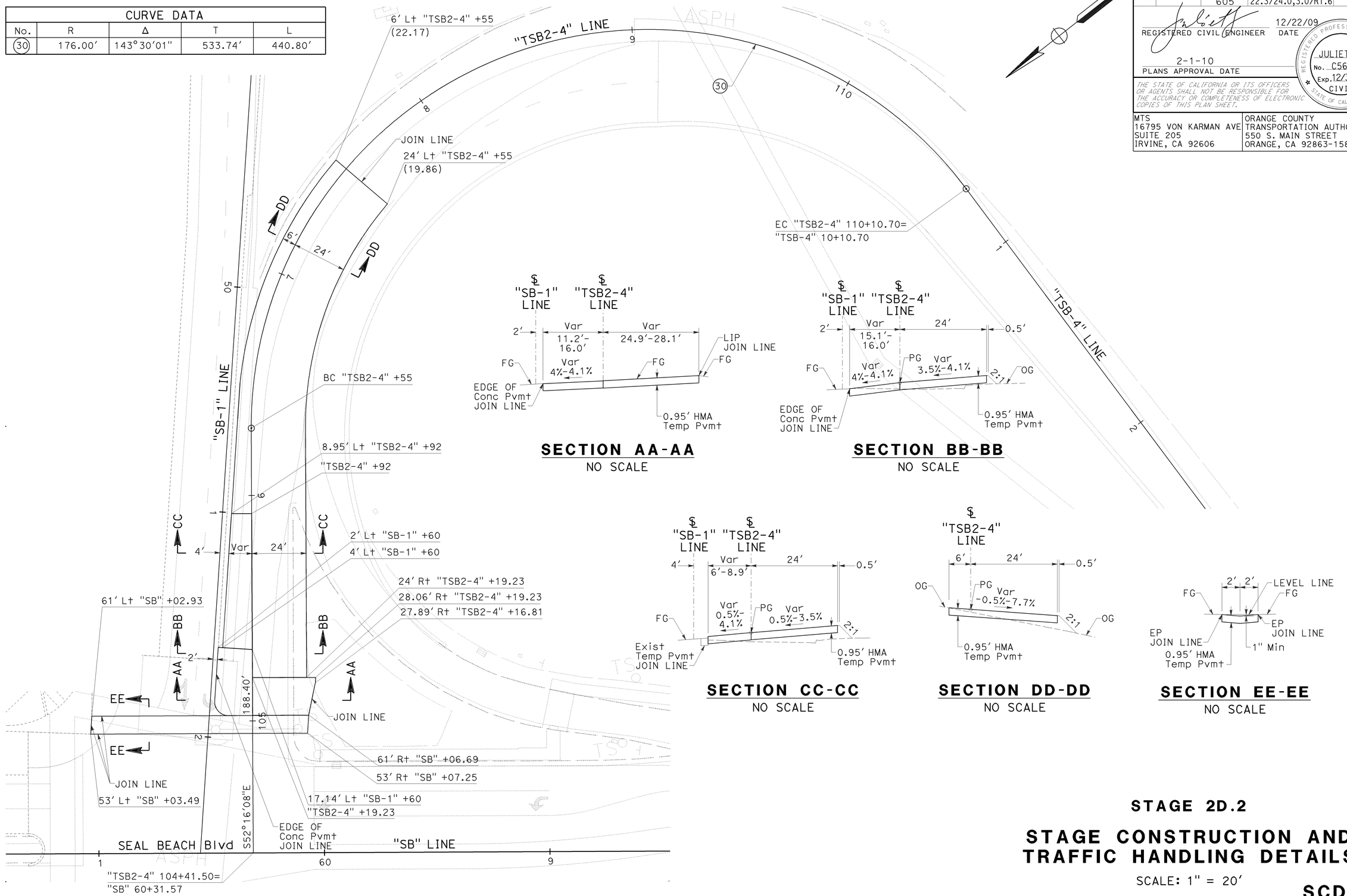
ORANGE, CA 92863-1584

CURVE DATA				
No.	R	Δ	T	L
(30)	176.00′	143°30′01"	533.74′	440.80′



SECTION AA-AA
NO SCALE

SECTION BB-BB
NO SCALE

SECTION CC-CC
NO SCALE

SECTION DD-DD
NO SCALE

SECTION EE-EE
NO SCALE

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 2D.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: 1" = 20′

SCD-37

LAST REVISION DATE PLOTTED => 04-FEB-2010
08-10-09 TIME PLOTTED => 06:40

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Caltrans
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmartin
DGN FILE => c07163mb037.dgn
CU 12235
EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	865	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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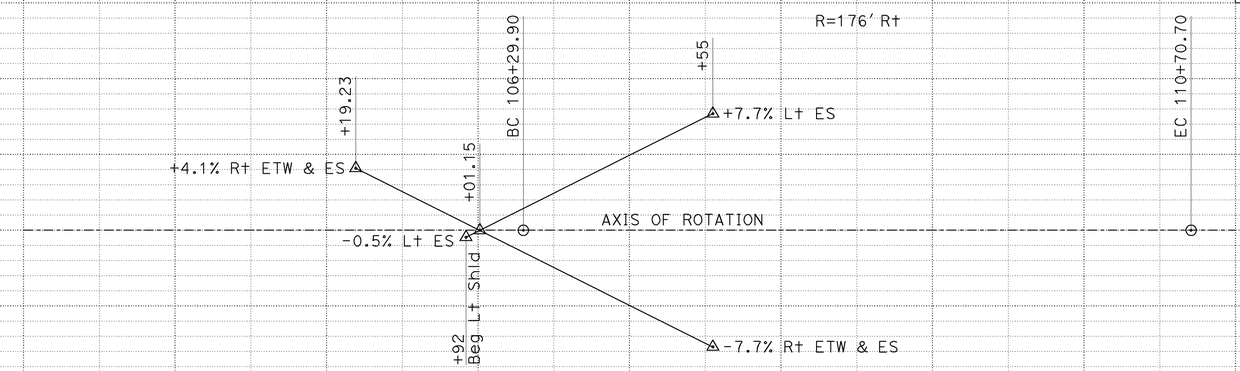
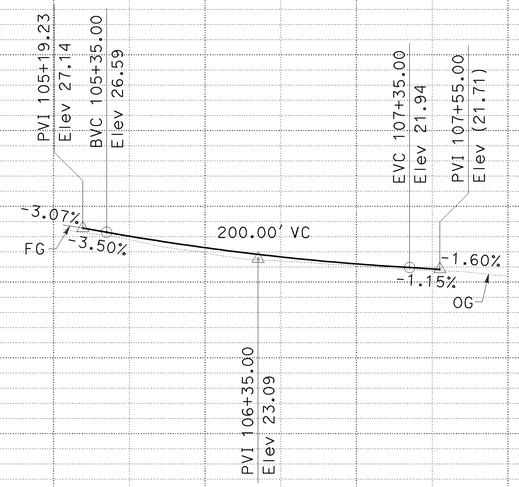


SUPERELEVATION DIAGRAM



PROFILE

STAGE 2D.2

"TSB2-4" LINE (Temp NB SEAL BEACH ON-RAMP)

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: Horiz 1" = 50'
Vert 1" = 10'

SCD-38

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

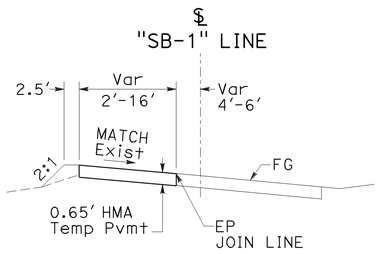
STATION	3	4	2	105	6	7	8	9	110	1	TOTAL
CY Exc											
CY Emb											

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09

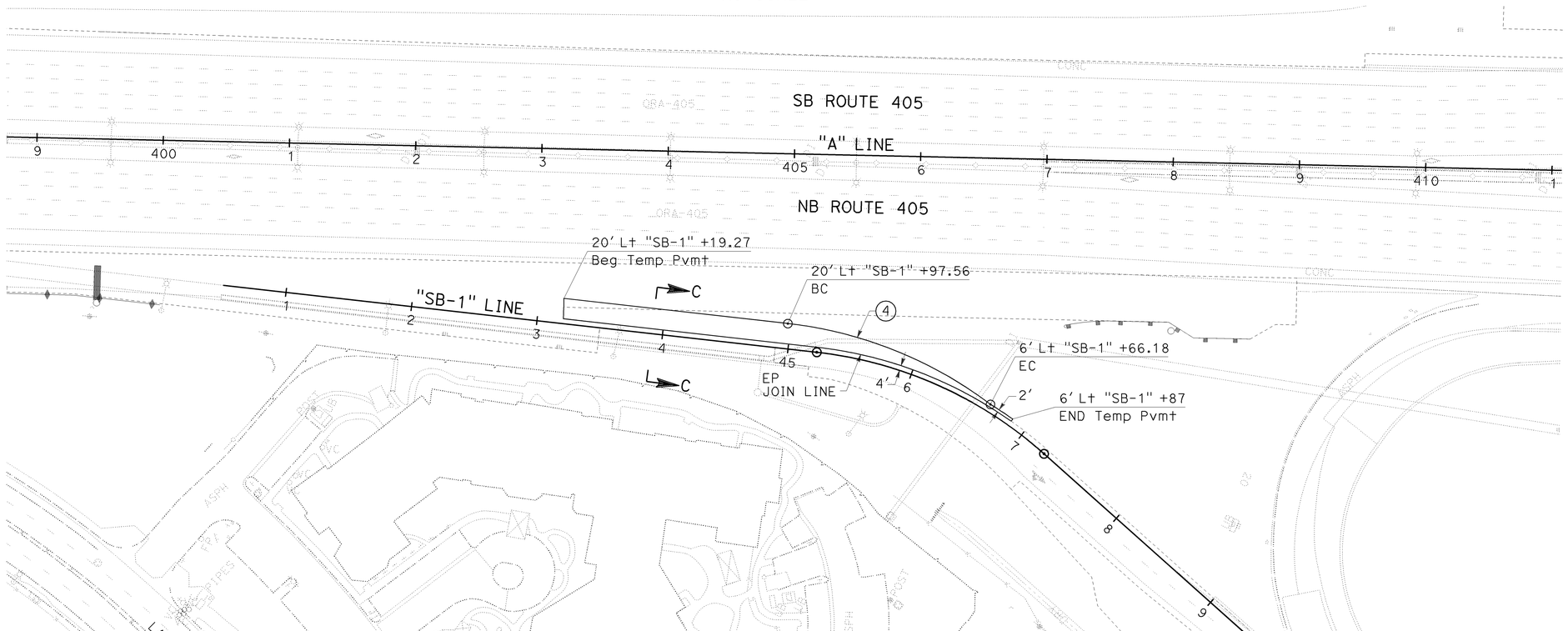
LAST REVISION DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 06:41
08-10-09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmartin
DGN FILE => c07163mb038.dgn
CU 12235
EA 071631

CURVE DATA				
No.	R	Δ	T	L
(4)	327.00′	30°37′42"	89.54′	174.80′



SECTION C-C
NO SCALE



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	866	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
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REVISED BY: KLA — DATE REVISED: 12/22/09
KELSIE ANDERSON — JULIET SU
CALCULATED-DESIGNED BY — CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

STAGE 3A.1

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: 1" = 50′

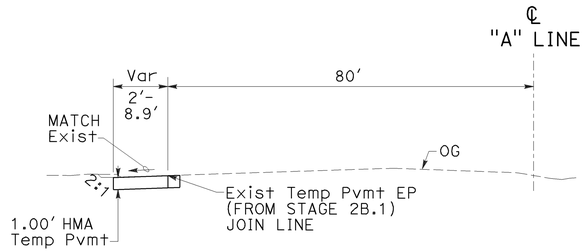
SCD-39

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

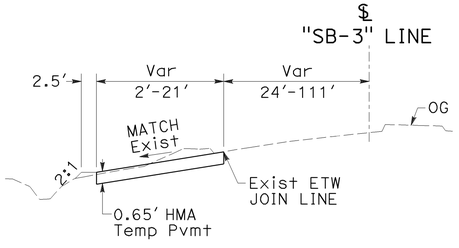
LAST REVISION 08-10-09 | DATE PLOTTED => 04-FEB-2010 | TIME PLOTTED => 06:41

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmartin | DGN FILE => c07163mb039.dgn | CU 12235 | EA 071631

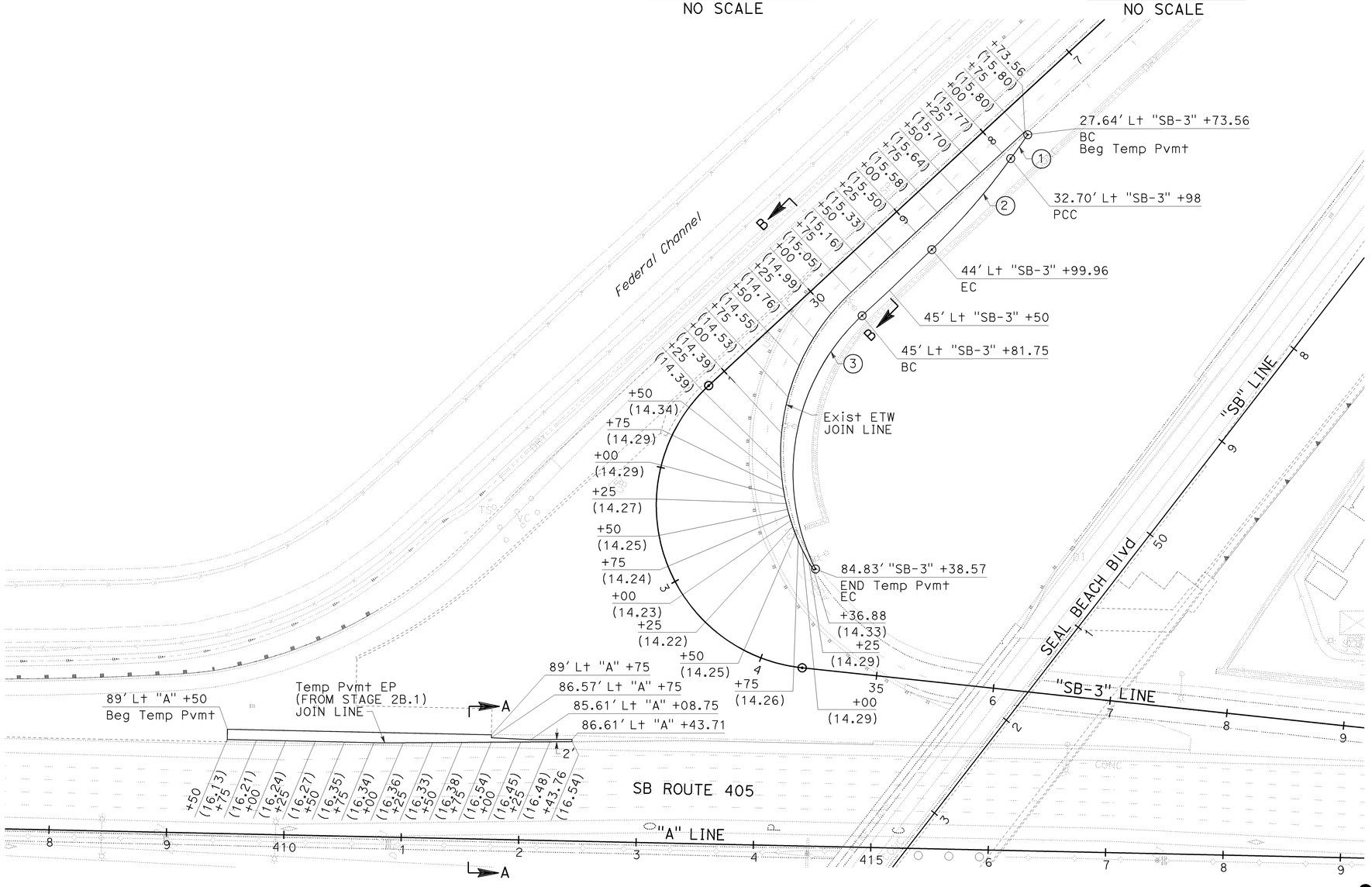
CURVE DATA				
No.	R	Δ	T	L
1	564.00′	02°32′09"	12.48′	24.96′
2	568.00′	10°21′44"	51.50′	102.72′
3	183.00′	73°37′32"	136.97′	235.16′



SECTION A-A
NO SCALE



SECTION B-B
NO SCALE



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	867	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
PLANS APPROVAL DATE

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ORANGE, CA 92863-1584

STAGE 3A.1

STAGE CONSTRUCTION TRAFFIC HANDLING DETAILS

SCALE: 1" = 50′

SCD-40

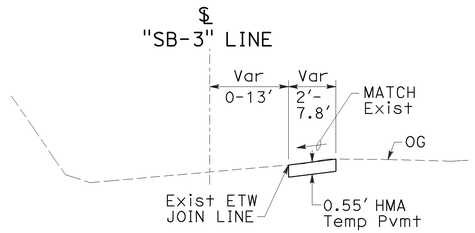
THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09

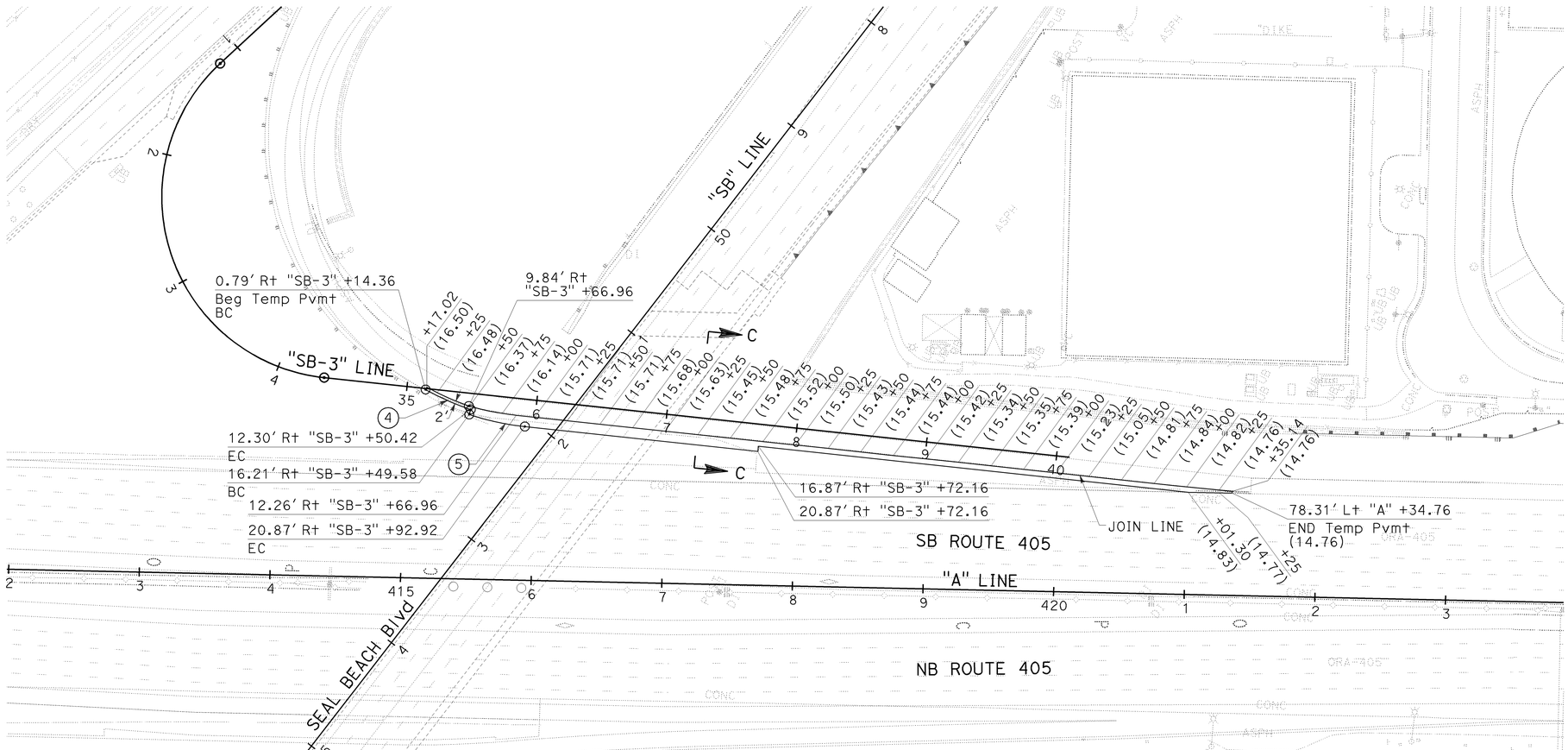
LAST REVISION DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 06:41
08-10-09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmartin
DGN FILE => c07163mb040.dgn
CU 12235
EA 071631

CURVE DATA				
No.	R	Δ	T	L
(4)	200.00′	10°51′37"	19.01′	37.91′
(5)	204.00′	12°16′06"	21.92′	43.68′



SECTION C-C
NO SCALE



STAGE 3A.2

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: 1" = 50′

SCD-41

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	868	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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550 S. MAIN STREET
ORANGE, CA 92863-1584

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION | DATE PLOTTED => 04-FEB-2010
08-10-09 | TIME PLOTTED => 06:41

CURVE DATA				
No.	R	Δ	T	L
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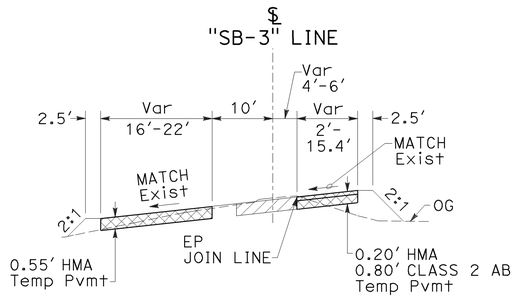
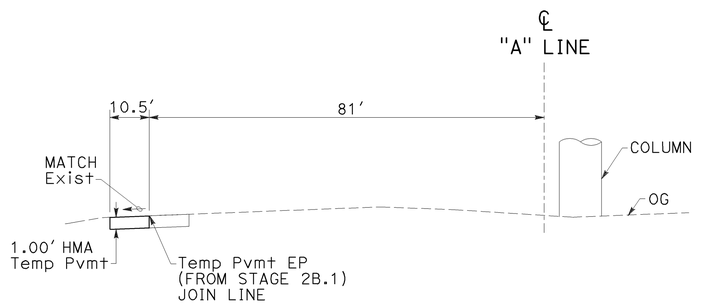
(6)	162.00′	18°44′30"	26.73′	52.99′



SECTION D-D
NO SCALE



SECTION E-E
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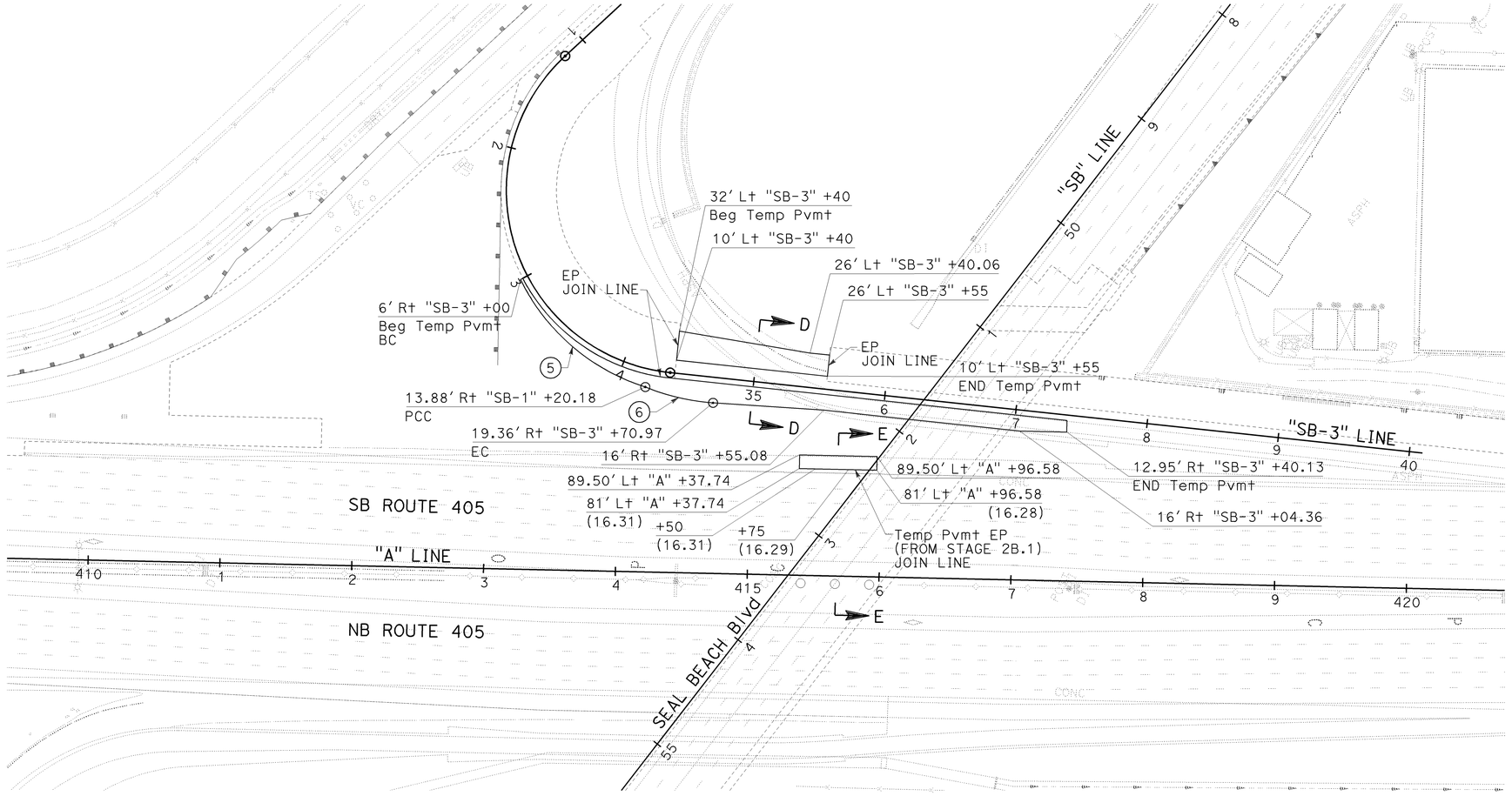


THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STAGE 3B

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: 1" = 50′

SCD-42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	869	1929

REGISTERED CIVIL ENGINEER — DATE 12/22/09

PLANS APPROVAL DATE 2-1-10

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

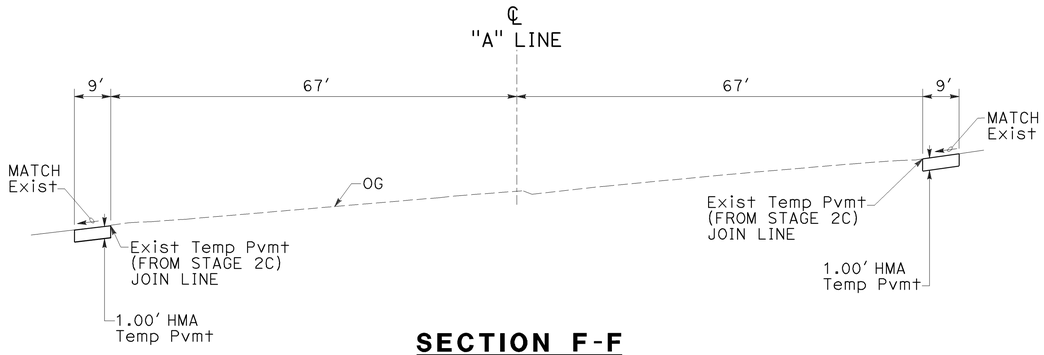
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

REVISED BY	DATE REVISED
KLA	12/22/09

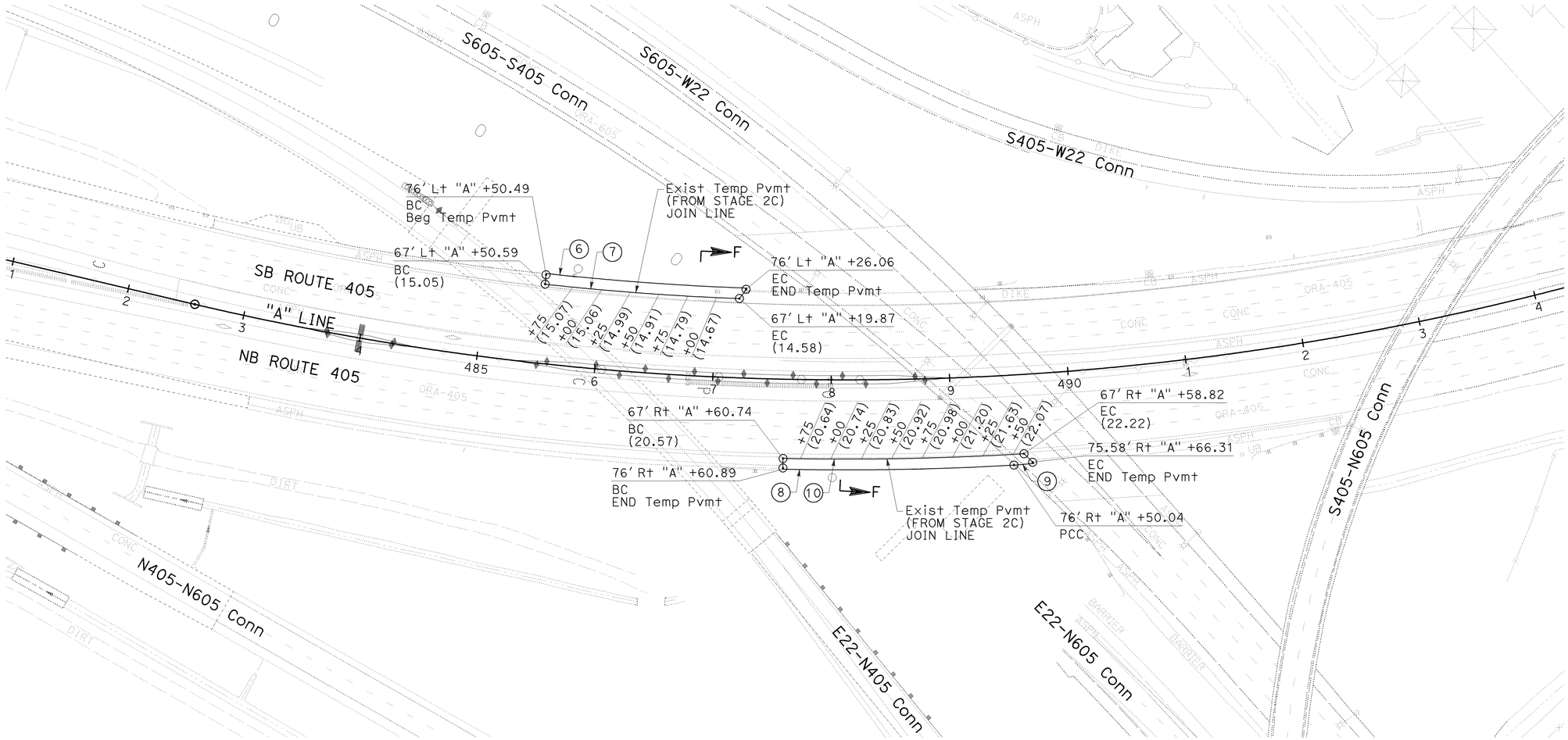
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 06:41
08-10-09

CURVE DATA				
No.	R	Δ	T	L
(6)	2,324.00′	04°11′29"	85.04′	170.01′
(7)	2,333.00′	04°02′28"	82.31′	164.55′
(8)	2,476.00′	04°30′56"	97.62′	195.14′
(9)	2,469.99′	00°23′22"	8.39′	16.79′
(10)	2,467.00′	04°43′44"	101.86′	203.61′



SECTION F-F
NO SCALE



STAGE 3C

STAGE CONSTRUCTION AND TRAFFIC HANDLING DETAILS

SCALE: 1" = 50′

SCD-43

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	870	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
PLANS APPROVAL DATE

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ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

REVISED BY	DATE REVISED
KLA	12/22/09

KELSIE ANDERSON — CALCULATED-DESIGNED BY
JULIET SU — CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR
LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 04-FEB-2010
08-10-09 TIME PLOTTED => 06:41

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmartin
DGN FILE => c07163mb043.dgn
CU 12235
EA 071631

NOTE:

1. NO QUANTITIES THIS SHEET.

LEGEND:

(N) NOT A SEPARATE PAY ITEM. FOR INFORMATION ONLY.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	871	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

TEMPORARY PAVEMENT DELINEATION QUANTITIES-STAGES 1A.1 AND 1A.2

STAGE	SHEET No.	STATION LIMITS	DIRECTION	TEMPORARY TRAFFIC STRIPE (PAINT) 4" SOLID YELLOW DETAIL 24, 25, 25A	4" SOLID DOUBLE YELLOW DETAIL 22, 29	4" SOLID WHITE DETAIL 27B, 36A, 36B	4" WHITE (BROKEN 36'-12') DETAIL 12	4" WHITE (BROKEN 6'-1') DETAIL 40	8" WHITE SOLID DETAIL 36, 36A, 36B, 38, 38A, 38B	8" WHITE (BROKEN 12'-3') DETAIL 37	(N) DETAIL 10	(N) DETAIL 13, HC	(N) DETAIL 38C	(N) DETAIL 37A	TEMPORARY PAVEMENT MARKING (PAINT) DIAGONAL/CHEVRON/ LIMIT LINE/ CROSSWALK (WHITE)	TEMPORARY PAVEMENT MARKING (PAINT) ARROWS/SYMBOLS/ WORDS (WHITE)	TEMPORARY PAVEMENT MARKER TYPE A	TYPE C	TYPE D	TYPE G	TYPE H
				LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	SQFT	SQFT	EA	EA	EA	EA	EA
1A.1	SC-14	"A" 397+50 TO "A" 408+50	NB													84					
	SC-15	"A" 408+50 TO "A" 417+50	NB	331		741			709			153				186	13			15	15
		"SB" 48+50 TO "SB" 62+50	NB	611	403	220	1,090	211	340						82				18	37	
		"SB" 48+50 TO "SB" 62+50	SB	750	400	1,151	2,181	199	120							60			18	48	
	SC-16	"A" 417+50 TO "A" 428+50	NB			1,209			108		292									14	
	SC-17	"A" 428+50 TO "A" 441+50	NB			950															
	SC-18	SEE NOTE 1																			
	SC-19	"XC" 165+00 TO "XB-3" 45+50	WB	671		661						666					56			15	29
	SC-20	"XB-3" 45+50 TO "XB-3" 58+50	WB	303		1,292						1,303					109			29	15
	SC-21	"XB-3" 58+50 TO "XB-3" 71+50	WB	595		588						592					50			14	26
	SC-22	"SB" 38+50 TO "SB" 48+50	NB	301	280	577	636		60										13	16	
		"SB" 38+50 TO "SB" 48+50	SB	302	281	591	1,025	209	453							30			13	38	
	SC-23	SEE NOTE 1																			
	SC-24	WESTMINSTER Ave						166								281					
1A.2	SC-25	"A" 417+50 TO "A" 425+50	SB			20															
	SC-26	"A" 425+50 TO "A" 438+50	NB	800		800						4,000				51	334			89	18
		"A" 425+50 TO "A" 438+50	SB			1,301															
	SC-27	"A" 438+50 TO "A" 451+50	NB	1,297		1,261						5,129		1,157		44	737	78		114	29
		"A" 438+50 TO "A" 451+50	SB	1,818		2,441			454			6,164				84	514			154	57
	SC-28	SEE NOTE 1																			
	SC-29	"A" 451+50 TO "A" 458+50	NB	699		675						3,451		679		62	470	46		76	16
		"A" 451+50 TO "A" 458+50	SB	1,152		1,127						4,016					335			91	36
	SC-30	"A" 458+50 TO "A" 471+50	NB	1,298		1,266						5,141	507	728		62	843	49		158	29
		"A" 458+50 TO "A" 471+50	SB	1,751		1,964			183			6,922				84	577			160	49
	SC-31	SEE NOTE 1																			
	SC-32	"A" 471+50 TO "A" 483+50	NB	1,200		716			804			4,805				33	401			141	27
		"A" 471+50 TO "A" 483+50	SB	1,200		1,198						4,795				73	400			104	26
	SC-33	"A-1" 84+25 TO "A-1" 97+50	NB	261		267						1,055					88			26	7
		"A-1" 84+25 TO "A-1" 97+50	SB	117		115						465				11	39			14	4
	SC-34	"A-1" 97+50 TO "A-1" 111+50	NB	2,182		3,550			970			2,302					192			93	90
	SC-35	SEE NOTE 1																			
	SC-36	"A-1" 111+50 TO "B" 215+50	NB	1,050		1,252			200			1,050					88			33	23
	SC-37	"B" 215+50 TO "B" 216+50	NB	1,050		1,054						1,955					163			45	23
	SC-38	SEE NOTE 1																			
	SC-39	SEE NOTE 1																			
SHEET SUBTOTAL				19,739	1,364	26,987	4,932	785	4,401		292	53,964	507	2,564	82	1,145	5,409	173	62	1,524	519
SHEET TOTAL				58,208							292	53,964	507	2,564	1,227		7,687				

STAGE CONSTRUCTION QUANTITIES

SCQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU

REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 06:41
08-10-09

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmartin
DGN FILE => c07163mc001.dgn

CU 12235

EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	872	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

TEMPORARY PAVEMENT DELINEATION QUANTITIES-STAGES 1A.3 AND 1B.1

STAGE	SHEET No.	STATION LIMITS	DIRECTION	TEMPORARY TRAFFIC STRIPE (PAINT) 4" SOLID YELLOW DETAIL 24, 25, 25A	4" SOLID DOUBLE YELLOW DETAIL 22, 29	4" SOLID WHITE DETAIL 27B, 36A, 36B	4" WHITE (BROKEN 36'-12') DETAIL 12	4" WHITE (BROKEN 6'-1') DETAIL 40	8" WHITE SOLID DETAIL 36, 36A, 36B, 38, 38A, 38B	8" WHITE (BROKEN 12'-3') DETAIL 37	(N) DETAIL 10	(N) DETAIL 13, HC	(N) DETAIL 38C	(N) DETAIL 37A	TEMPORARY PAVEMENT MARKING (PAINT) DIAGONAL/CHEVRON/ LIMIT LINE/ CROSSWALK (WHITE)	TEMPORARY PAVEMENT MARKING (PAINT) ARROWS/SYMBOLS/ WORDS (WHITE)	TEMPORARY PAVEMENT MARKER TYPE A	TYPE C	TYPE D	TYPE G	TYPE H
				LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	SQFT	SQFT	EA	EA	EA	EA	EA
1A.3	SC-40	"A" 424+50 TO "A" 438+50	NB	800		800						4,000				51	334			89	18
	SC-41	"A" 438+50 TO "A" 451+50	NB	463		486						5,136		1,160		44	738	78		113	12
	SC-42	"A" 451+50 TO "A" 458+50	NB	699		676						2,758		680		73	412	46		64	16
	SC-43	"A" 458+50 TO "A" 471+50	NB	936		1,001						3,691	279	728		11	623	49		108	21
1B.1	SC-44	SEE NOTE 1																			
	SC-45	"A" 425+50 TO "A" 438+50	NB	800		800						4,000				73	334			89	18
	SC-46	"A" 438+50 TO "A" 451+50	NB	1,277		1,241						5,299		959		84	698	64		116	28
		"A" 438+50	SB	1,075		1,110						5,449				11	455			119	24
	SC-47	SEE NOTE 1																			
	SC-48	"A" 451+50 TO "A" 458+50	NB	684		660						2,696		665		73	403	45		61	16
		"A" 451+50 TO "A" 458+50	SB	710		738						3,756				11	314			85	16
	SC-49	"A" 458+50 TO "A" 471+50	NB	1,032		975						5,363	389	873		11	850	59		152	23
		"A" 458+50 TO "A" 471+50	SB	1,302		1,251			229			5,247				73	438			127	40
	SC-50	SEE NOTE 1																			
	SC-51	"A" 471+50 TO "A" 483+50	NB	736		1,300			800			1,133	170				175			78	32
		"A" 471+50 TO "A" 483+50	SB	878		979						873					73			20	38
	SC-52	SEE NOTE 1																			
	SC-53	"A-1" 84+25 TO "A-1" 97+50	NB	381		373						377					32			9	17
	SC-54	"A-1" 97+50 TO"A-1" 111+50	NB	1,575		3,236			401			1,729					145			57	68
		"A-1" 97+50 TO"A-1" 111+50	SB	1,219		1,211			606			2,530					211			84	36
	SC-55	SEE NOTE 1																			
	SC-56	"A-1" 111+50 TO "B" 215+50	NB	429		1,002			575											25	19
		"A-1" 111+50 TO "B" 215+50	SB	1,049		1,047						3,144					262			69	23
	SC-57	"B" 215+50 TO "B" 225+50	SB	1,000		1,000						3,000					250			66	22
	SC-58	"B" 225+50 TO "B" 239+00	SB	596		1,318						1,792					150			41	14
	SC-59	SEE NOTE 1																			
SHEET SUBTOTAL				17,641		21,204			2,611			61,973	839	5,065		515	6,897	341		1,572	501
SHEET TOTAL				41,456								61,973	839	5,065	515		9,311				

STAGE CONSTRUCTION QUANTITIES

SCQ-2

REVISED BY	KLA						
DATE REVISED	12/22/09						
CALCULATED-DESIGNED BY	KELSIE ANDERSON						
CHECKED BY	JULIET SU						
CONSULTANT FUNCTIONAL SUPERVISOR	LEONARD SEQUEIRA						
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans						

LAST REVISION 08-10-09 | DATE PLOTTED => 03-FEB-2010 | TIME PLOTTED => 15:27

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s135318 | DGN FILE => c07163mc002.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	873	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

TEMPORARY PAVEMENT DELINEATION QUANTITIES-STAGES 1B.2, 1B.3, 1B.4 AND 1B.5

STAGE	SHEET No.	STATION LIMITS	DIRECTION	TEMPORARY TRAFFIC STRIPE (PAINT) 4" SOLID YELLOW DETAIL 24, 25, 25A	4" SOLID DOUBLE YELLOW DETAIL 22, 29	4" SOLID WHITE DETAIL 27B, 36A, 36B	4" WHITE (BROKEN 36'-12') DETAIL 12	4" WHITE (BROKEN 6'-1') DETAIL 40	8" WHITE SOLID DETAIL 36, 36A, 36B, 38, 38A, 38B	8" WHITE (BROKEN 12'-3') DETAIL 37	(N) DETAIL 10	(N) DETAIL 13, HC	(N) DETAIL 38C	(N) DETAIL 37A	TEMPORARY PAVEMENT MARKING (PAINT) DIAGONAL/CHEVRON/ LIMIT LINE/ CROSSWALK (WHITE)	TEMPORARY PAVEMENT MARKING (PAINT) ARROWS/SYMBOLS/ WORDS (WHITE)	TEMPORARY PAVEMENT MARKER TYPE A	TYPE C	TYPE D	TYPE G	TYPE H
				LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	SQFT	SQFT	EA	EA	EA	EA	EA
1B.2	SC-60	"A" 424+00 TO "A" 438+50	NB											790				53		2	
	SC-61	"A" 438+50 TO "A" 451+50	NB											288				20		2	
	SC-62	"A" 451+50 TO "A" 458+50	NB										143				60			14	
	SC-63	"A" 458+50 TO "A" 471+50	NB	526		1,632			797			920	334				217			87	23
		"A" 458+50 TO "A" 471+50	SB	177		185						181					16			5	9
	SC-64	"A" 471+50 TO "A" 483+50	NB	1,295		1,858						1,291					108			28	55
		"A" 471+50 TO "A" 483+50	SB	1,295		988			678			1,289					108			59	55
	SC-65	SEE NOTE 1																			
	SC-66	"A-1" 84+25 TO "A-1" 98+50	NB	444		369			74			444					37			17	21
	SC-67	"A-1" 98+50 TO "A-1" 111+50	NB	803		1,416			346											17	35
	SC-68	"A-1" 111+50 TO "B" 215+50	SB			609			698											32	
1B.3	SC-69	"A" 408+50 TO "A" 417+50	NB			750								750				50		2	
	SC-70	"A" 417+50 TO "A" 427+50	NB			1,000							320	680			322	46		32	
	SC-71	"A" 427+50 TO "A" 440+50	NB			495			650			356	140				90			53	
	SC-72	SEE NOTE 1																			
1B.4	SC-73	SEE NOTE 1																			
	SC-74	"A-1" 97+50 TO"A-1" 111+50	NB			903															
	SC-75	"A-1" 111+50 TO "B" 215+50	NB			190			190											9	
1B.5	SC-76	SEE NOTE 1																			
SHEET SUBTOTAL				4,540		10,395			3,433			4,481	936	2,508			958	169		359	198
SHEET TOTAL				18,368								4,481	936	2,508			1,684				

STAGE CONSTRUCTION QUANTITIES

SCQ-3

REVISED BY: KLA — DATE REVISED: 12/22/09
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 15:27
08-10-09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s135318
DGN FILE => c07163mc003.dgn
CU 12235
EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	874	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
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SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

TEMPORARY PAVEMENT DELINEATION QUANTITIES-STAGE 2A

STAGE	SHEET No.	STATION LIMITS	DIRECTION	TEMPORARY TRAFFIC STRIPE (PAINT) 4" SOLID YELLOW DETAIL 24, 25, 25A	4" SOLID DOUBLE YELLOW DETAIL 22, 29	4" SOLID WHITE DETAIL 27B, 36A, 36B	4" WHITE (BROKEN 36'-12') DETAIL 12	4" WHITE (BROKEN 6'-1') DETAIL 40	8" WHITE SOLID DETAIL 36, 36A, 36B, 38, 38A, 38B	8" WHITE (BROKEN 12'-3') DETAIL 37	(N) DETAIL 10	(N) DETAIL 13, HC	(N) DETAIL 38C	(N) DETAIL 37A	TEMPORARY PAVEMENT MARKING (PAINT) DIAGONAL/CHEVRON/ LIMIT LINE/ CROSSWALK (WHITE)	TEMPORARY PAVEMENT MARKING (PAINT) ARROWS/SYMBOLS/ WORDS (WHITE)	TEMPORARY PAVEMENT MARKER TYPE A	TYPE C	TYPE D	TYPE G	TYPE H
				LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	SQFT	SQFT	EA	EA	EA	EA	EA
2A		"A" 408+50 TO "A" 417+50	NB	267												54					13
	SC-77	"SB" 48+50 TO "SB" 62+50	NB		1,154	293			244						1,455	30			50	7	
		"SB" 48+50 TO "SB" 62+50	SB		1,153	1,153			272						118				50	13	
	SC-78	SEE NOTE 1																			
	SC-79	"A" 417+50 TO "A" 425+50	SB			20						20	20				12			6	
	SC-80	"A" 425+50 TO "A" 438+50	SB	386		2,046			566			2,322	50	500			358	34		91	15
	SC-81	"A" 438+50 TO "A" 451+50	NB									276					23			7	
		"A" 438+50 TO "A" 451+50	SB	2,353		2,390						6,318				73	527			138	74
	SC-82	"A" 451+50 TO "A" 458+50	NB	672		648						2,648		653			395	44		63	15
		"A" 451+50 TO "A" 458+50	SB	704		728						3,578					299			79	16
	SC-83	"A" 458+50 TO "A" 471+50	NB	1,277		1,246						5,057	408	840		50	816	56		150	28
		"A" 458+50 TO "A" 471+50	SB	1,264		1,552			260			4,874				73	407			120	36
	SC-84	"A" 471+50 TO "A" 483+50	NB	1,170		150			400			4,681	150			33	461			136	26
		"A" 471+50 TO "A" 483+50	SB			231															
	SC-85	"A-1" 84+25 TO "A-1" 97+50	NB	405		404						1,194					100			30	14
	SC-86	"A-1" 97+50 TO"A-1" 111+50	NB	1,260		1,620			103			1,418					119			37	54
		"A-1" 97+50 TO"A-1" 111+50	SB	1,299		827			469			3,892	123				385			120	29
	SC-87	"A-1" 111+50 TO "B" 215+50	NB			904			452			452					38			31	
		"A-1" 111+50 TO "B" 215+50	SB	1,048		1,044						3,142	171	873			575	59		90	23
	SC-88	"B" 215+50 TO "B" 225+50	SB	1,000		1,000						3,000		1,000			517	67		68	22
	SC-89	"B" 225+50 TO "B" 239+00	SB	782		1,324						2,370		773			405	52		55	18
	SC-90	"SB" 31+00 TO "SB" 38+50	NB	555																	
	SC-91	"SB" 38+50 TO "SB" 48+50	NB	44	579										755	12			26	2	
		"SB" 38+50 TO "SB" 48+50	SB		583	591			205			325			30	30	28		26	19	
	SC-92	"SB" 62+50 TO "SB" 70+00	SB						578						289					27	
SHEET SUBTOTAL				14,486	3,469	18,171			3,549			45,567	921	4,639	2,647	355	5,465	312	152	1,289	383
SHEET TOTAL				39,675								45,567	921	4,639	3,002		7,601				

STAGE CONSTRUCTION QUANTITIES

SCQ-4

REVISED BY	KLA
DATE REVISED	12/22/09
CALCULATED-DESIGNED BY	KELSIE ANDERSON
CHECKED BY	JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR	LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 15:27
08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s135318 DGN FILE => c07163mc004.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	875	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

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16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

TEMPORARY PAVEMENT DELINEATION QUANTITIES-STAGES 2B.1, 2B.2 AND 2B.3

STAGE	SHEET No.	STATION LIMITS	DIRECTION	TEMPORARY TRAFFIC STRIPE (PAINT) 4" SOLID YELLOW DETAIL 24, 25, 25A	4" SOLID DOUBLE YELLOW DETAIL 22, 29	4" SOLID WHITE DETAIL 27B, 36A, 36B	4" WHITE (BROKEN 36'-12') DETAIL 12	4" WHITE (BROKEN 6'-1') DETAIL 40	8" WHITE SOLID DETAIL 36, 36A, 36B, 38, 38A, 38B	8" WHITE (BROKEN 12'-3') DETAIL 37	(N) DETAIL 10	(N) DETAIL 13, HC	(N) DETAIL 38C	(N) DETAIL 37A	TEMPORARY PAVEMENT MARKING (PAINT) DIAGONAL/CHEVRON/ LIMIT LINE/ CROSSWALK (WHITE)	TEMPORARY PAVEMENT MARKING (PAINT) ARROWS/SYMBOLS/ WORDS (WHITE)	TEMPORARY PAVEMENT MARKER TYPE A	TYPE C	TYPE D	TYPE G	TYPE H
				LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	SQFT	SQFT	EA	EA	EA	EA	EA
2B.1	SC-93	"A" 394+00 TO "A" 398+50	NB	300		300						1,800					150			44	8
		"A" 395+50 TO "A" 398+50	SB	450		450						2,100				45	175			50	11
	SC-94	"A" 398+50 TO "A" 408+50	NB	1,632		1,622			567			5,191		920		27	679	62		143	50
		"A" 398+50 TO "A" 408+50	SB	1,000		1,150			150		300	5,000				28	455			126	23
	SC-95	SEE NOTE 1																			
	SC-96	"A" 408+50 TO "A" 417+50	NB	2,277		2,455			232			5,253		900	34	53	679	61		130	80
		"A" 408+50 TO "A" 417+50	SB	1,563		1,804			101			5,401			12	73	451			125	49
		"SB" 48+50 TO "SB" 62+50	NB												178						
		"SB" 48+50 TO "SB" 62+50	SB												59						
	SC-97	SEE NOTE 1																			
	SC-98	"A" 417+50 TO "A" 425+50	NB	603		661					300	3,014		603		73	451	41		76	14
		"A" 417+50 TO "A" 425+50	SB	358		358						2,146				11	179			51	9
	SC-99	SEE NOTE 1																			
	SC-100	SEE NOTE 1																			
	SC-101	SEE NOTE 1																			
	SC-102	SEE NOTE 1																			
	SC-103	SEE NOTE 1																			
	SC-104	"A-1" 84+25 TO "A-1" 97+50	NB	563		561						564					47			13	25
	SC-105	SEE NOTE 1																			
	SC-106	"A-1" 97+50 TO "A-1" 110+50	NB	532		532						532					45			13	24
	SC-107	"SB-2" 57+50 TO "SB-2" 65+00	SB			453															
2B.2	SC-108	SEE NOTE 1																			
2B.3	SC-109	"A" 437+00 TO "A" 451+50	SB			470															
	SC-110	"A" 451+50 TO "A" 458+50	SB	31		1,273			540			575					48			37	3
	SC-111	"A" 458+50 TO "A" 471+50	SB	1,185		1,593						1,187					99			26	51
	SC-112	SEE NOTE 1																			
	SC-113	SEE NOTE 1																			
	SC-114	SEE NOTE 1																			
SHEET SUBTOTAL				10,494		13,682			1,590		600	32,763		2,423	283	310	3,458	164		834	347
SHEET TOTAL				25,766							600	32,763		2,423	593		4,803				

STAGE CONSTRUCTION QUANTITIES

SCQ-5

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 15:27

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s135318
DGN FILE => c07163mc005.dgn
CU 12235
EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	876	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

TEMPORARY PAVEMENT DELINEATION QUANTITIES-STAGES 2C.1 AND 2C.2

STAGE	SHEET No.	STATION LIMITS	DIRECTION	TEMPORARY TRAFFIC STRIPE (PAINT) 4" SOLID YELLOW DETAIL 24, 25, 25A	4" SOLID DOUBLE YELLOW DETAIL 22, 29	4" SOLID WHITE DETAIL 27B, 36A, 36B	4" WHITE (BROKEN 36'-12') DETAIL 12	4" WHITE (BROKEN 6'-1') DETAIL 40	8" WHITE SOLID DETAIL 36, 36A, 36B, 38, 38A, 38B	8" WHITE (BROKEN 12'-3') DETAIL 37	(N) DETAIL 10	(N) DETAIL 13, HC	(N) DETAIL 38C	(N) DETAIL 37A	TEMPORARY PAVEMENT MARKING (PAINT) DIAGONAL/CHEVRON/ LIMIT LINE/ CROSSWALK (WHITE)	ARROWS/SYMBOLS/ WORDS (WHITE)	TEMPORARY PAVEMENT MARKER TYPE A	TYPE C	TYPE D	TYPE G	TYPE H
				LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	SQFT	SQFT	EA	EA	EA	EA	EA
2C.1	SC-115	"A" 388+00 TO "A" 398+50	NB			397			516											24	
		"A" 388+00 TO "A" 398+50	SB	69		1,300			250		201						26			18	4
	SC-116	"A" 398+50 TO "A" 408+50	NB	978		1,968						136					12			4	42
		"A" 398+50 TO "A" 408+50	SB	848		1,550			152							42				8	37
	SC-117	"A" 408+50 TO "A" 417+50	NB	907		1,205			252			559			81	42				25	40
		"A" 408+50 TO "A" 417+50	SB	893		884															39
		"SB" 48+50 TO "SB" 62+50	NB	14		115	157													6	
		"SB" 48+50 TO "SB" 62+50	SB	14		136		255	506							42				7	
	SC-118	SEE NOTE 1																			
	SC-119	SEE NOTE 1																			
	SC-120	"A" 425+50 TO "A" 438+50	SB	995		995						4,977		995		84	681	67		110	22
	SC-121	"A" 438+50 TO "A" 451+50	SB	1,323		1,062						6,771		70		84	584	5		148	29
	SC-122	"A" 451+50 TO "A" 458+50	SB	717		212						3,644					304			81	16
	SC-123	"A" 458+50 TO "A" 471+50	SB	1,325		1,246						5,440				84	454			119	29
	SC-124	"A" 471+50 TO "A" 483+50	NB	351		353						1,407				73	118			34	9
		"A" 471+50 TO "A" 483+50	SB	1,173		1,198						4,795				11	400			104	26
	SC-125	"A-1" 84+25 TO "A-1" 98+50	NB	956		978						3,868				73	323			85	21
		"A-1" 84+25 TO "A-1" 98+50	SB	1,049		1,024						4,147				11	346			91	23
	SC-126	SEE NOTE 1																			
	SC-127	SEE NOTE 1																			
	SC-128	SEE NOTE 1																			
	SC-129	"SB" 38+50 TO "SB" 48+50	NB	7					11											3	2
		"SB" 38+50 TO "SB" 48+50	SB	8		462			23						272						2
		"SB-2" 57+50 TO "SB-2" 65+00	SB	424		424															19
	SC-130	"SB" 62+50 TO "SB" 70+00	SB			372			290	297						30		20		16	
2C.2	SC-131	"A" 394+00 TO "A" 398+50	SB	450		300						2,700				45	225			63	11
	SC-132	"A" 398+50 TO "A" 408+50	SB	1,000		100						6,000				28	500			131	22
	SC-133	"A" 408+50 TO "A" 417+50	SB	495		420						2,970					248			68	12
SHEET SUBTOTAL				12,051		16,701	157	255	2,000	297	201	47,414		1,065	353	649	4,221	92		1,145	405
SHEET TOTAL				31,461							201	47,414		1,065	1,002		5,863				

STAGE CONSTRUCTION QUANTITIES

SCQ-6

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
REVISED BY: KLA
DATE REVISED: 12/22/09
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 15:27
08-10-09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s135318
DGN FILE => c07163mc006.dgn
CU 12235
EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	877	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

TEMPORARY PAVEMENT DELINEATION QUANTITIES-STAGES 2D.1 AND 2D.2

STAGE	SHEET No.	STATION LIMITS	DIRECTION	TEMPORARY TRAFFIC STRIPE (PAINT) 4" SOLID YELLOW DETAIL 24, 25, 25A	4" SOLID DOUBLE YELLOW DETAIL 22, 29	4" SOLID WHITE DETAIL 27B, 36A, 36B	4" WHITE (BROKEN 36'-12') DETAIL 12	4" WHITE (BROKEN 6'-1') DETAIL 40	8" WHITE SOLID DETAIL 36, 36A, 36B, 38, 38A, 38B	8" WHITE (BROKEN 12'-3') DETAIL 37	(N) DETAIL 10	(N) DETAIL 13, HC	(N) DETAIL 38C	(N) DETAIL 37A	TEMPORARY PAVEMENT MARKING (PAINT) DIAGONAL/CHEVRON/ LIMIT LINE/ CROSSWALK (WHITE)	TEMPORARY PAVEMENT MARKING (PAINT) ARROWS/SYMBOLS/ WORDS (WHITE)	TEMPORARY PAVEMENT MARKER TYPE A	TYPE C	TYPE D	TYPE G	TYPE H
				LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	SQFT	SQFT	EA	EA	EA	EA	EA
2D.1	SC-134	"A" 395+50 TO "A" 398+50	NB			328			257			199		128			52	9		21	
		"A" 395+50 TO "A" 398+50	SB	450		250						2,250		450			308	30		53	11
	SC-135	"A" 398+50 TO "A" 408+50	NB	876		1,866			250			127		1,000		27	278	67		19	38
		"A" 398+50 TO "A" 408+50	SB	1,000		1,000						5,000		1,000			684	67		111	22
	SC-136	"A" 408+50 TO "A" 417+50	NB	910		999			219			575			60	42	48			25	39
		"A" 408+50 TO "A" 417+50	SB	145		145						725		145			100	10		22	5
		"SB" 48+50 TO "SB" 63+50	NB		417	244			105						587	30			19	6	
		"SB" 48+50 TO "SB" 63+50	SB	223	417	678		225	457						222	30			19		
	SC-137	SEE NOTE 1																			
	SC-138	SEE NOTE 1																			
	SC-139	SEE NOTE 1																			
	SC-140	SEE NOTE 1																			
	SC-141	SEE NOTE 1																			
	SC-142	"A" 471+50 TO "A" 483+50	SB	446		444						445					38			11	20
	SC-143	SEE NOTE 1																			
	SC-144	SEE NOTE 1																			
	SC-145	SEE NOTE 1																			
	SC-146	"SB" 63+50 TO "SB" 70+00	SB				297		378						56	15				26	
2D.2	SC-147	SEE NOTE 1																			
	SC-148	SEE NOTE 1																			
SHEET SUBTOTAL				4,050	834	5,954	297	225	1,666			9,321		2,723	925	144	1,508	183	38	294	135
SHEET TOTAL				13,026								9,321		2,723	1,069		2,158				

STAGE CONSTRUCTION QUANTITIES

SCQ-7

REVISED BY: KLA — DATE REVISED: 12/22/09
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 08-10-09 | DATE PLOTTED => 03-FEB-2010 | TIME PLOTTED => 15:28

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s135318 | DGN FILE => c07163mc007.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	878	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

TEMPORARY PAVEMENT DELINEATION QUANTITIES-STAGES 3A.1 AND 3A.2

STAGE	SHEET No.	STATION LIMITS	DIRECTION	TEMPORARY TRAFFIC STRIPE (PAINT) 4" SOLID YELLOW DETAIL 24, 25, 25A	4" SOLID DOUBLE YELLOW DETAIL 22, 29	4" SOLID WHITE DETAIL 27B, 36A, 36B	4" WHITE (BROKEN 36'-12') DETAIL 12	4" WHITE (BROKEN 6'-1') DETAIL 40	8" WHITE SOLID DETAIL 36, 36A, 36B, 38, 38A, 38B	8" WHITE (BROKEN 12'-3') DETAIL 37	(N) DETAIL 10	(N) DETAIL 13, HC	(N) DETAIL 38C	(N) DETAIL 37A	TEMPORARY PAVEMENT MARKING (PAINT) DIAGONAL/CHEVRON/ LIMIT LINE/ CROSSWALK (WHITE)	TEMPORARY PAVEMENT MARKING (PAINT) ARROWS/SYMBOLS/ WORDS (WHITE)	TEMPORARY PAVEMENT MARKER TYPE A	TYPE C	TYPE D	TYPE G	TYPE H
				LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	SQFT	SQFT	EA	EA	EA	EA	EA
3A.1	SC-149	"A" 373+50 TO "A" 386+50	NB	220		220						1,320				126	110			34	6
	SC-150	"A" 386+50 TO "A" 398+50	NB	1,200		1,200						6,900					575			150	26
		"A" 395+50 TO "A" 398+50	SB	300		300						1,500				45	125			38	8
	SC-151	"A" 398+50 TO "A" 408+50	NB	1,591		1,582			507			5,163		837		84	655	56		139	48
		"A" 398+50 TO "A" 408+50	SB	1,000		1,200			200		215	6,001				39	528			147	22
	SC-152	"A" 408+50 TO "A" 417+50	NB	905		1,052			389			558		2	75	72	48	1		62	42
		"A" 408+50 TO "A" 417+50	SB	2,088		2,103			61			5,401				73	451			123	72
		"SB" 48+50 TO "SB" 62+50	NB		1,150	1,212	1,153	154	138						99	30			98	36	
		"SB" 48+50 TO "SB" 62+50	SB			166	1,229	392	370						436	90				48	
	SC-153	SEE NOTE 1																			
	SC-154	"A" 417+50 TO "A" 425+50	SB	487		706			540			2,145	301	100			336	7		105	16
	SC-155	"A" 425+50 TO "A" 438+50	SB											50				4		2	
	SC-156	SEE NOTE 1																			
	SC-157	SEE NOTE 1																			
	SC-158	"A" 458+50 TO "A" 471+50	SB	240		147								1,159				78		2	11
	SC-159	"A" 471+50 TO "A" 483+50	SB	838		831								835				56		2	36
	SC-160	"A-1" 84+25 TO "A-1" 97+50	NB	1,114		1,111			1,105				281	203			175	14		78	49
	SC-161	"A-1" 97+50 TO "A-1" 110+50	NB	1,412		1,343			664			2,395					200			82	40
	SC-162	"A-1" 111+50 TO "B" 215+50	NB	1,051		703			352			2,808					234			78	23
	SC-163	"A-1" 215+50 TO "A-1" 226+50	NB	1,050		1,050						3,150					263			69	23
	SC-164	"SB" 41+00 TO "SB" 48+50	NB		586	831	1,205	103	188						50				52	38	
		"SB" 41+00 TO "SB" 48+50	SB			373	588		201						196	30				25	
		"SB-2" 57+50 TO "SB-2" 65+00	SB	159		45									38						8
	SC-165	"SB" 62+50 TO "SB" 70+00	SB				290													8	
3A.2	SC-166	"A" 413+50 TO "A" 425+50	SB	1,586		1,552			545			5,100	300	106		11	584	8		166	51
	SC-167	"A" 425+50 TO "A" 438+50	SB	1,250		1,250						7,500		1,250		11	959	84		164	28
SHEET SUBTOTAL				16,491	1,736	18,977	4,465	649	5,260		215	49,941	882	4,542	894	611	5,243	308	150	1,596	509
SHEET TOTAL				47,578							215	49,941	882	4,542	1,505		7,806				

STAGE CONSTRUCTION QUANTITIES

SCQ-8

REVISED BY: KLA — DATE REVISED: 12/22/09
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 15:28

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s135318 DGN FILE => c07163mc008.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	879	1929

REGISTERED CIVIL ENGINEER — DATE 12/22/09

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

TEMPORARY PAVEMENT DELINEATION QUANTITIES-STAGE 3B

STAGE	SHEET No.	STATION LIMITS	DIRECTION	TEMPORARY TRAFFIC STRIPE (PAINT) 4" SOLID YELLOW DETAIL 24, 25, 25A	4" SOLID DOUBLE YELLOW DETAIL 22, 29	4" SOLID WHITE DETAIL 27B, 36A, 36B	4" WHITE (BROKEN 36'-12') DETAIL 12	4" WHITE (BROKEN 6'-1') DETAIL 40	8" WHITE SOLID DETAIL 36, 36A, 36B, 38, 38A, 38B	8" WHITE BROKEN 12'-3' DETAIL 37	(N) DETAIL 10	(N) DETAIL 13, HC	(N) DETAIL 38C	(N) DETAIL 37A	TEMPORARY PAVEMENT MARKING (PAINT) DIAGONAL/CHEVRON/ LIMIT LINE/ CROSSWALK (WHITE)	TEMPORARY PAVEMENT MARKING (PAINT) ARROWS/SYMBOLS/ WORDS (WHITE)	TEMPORARY PAVEMENT MARKER TYPE A	TYPE C	TYPE D	TYPE G	TYPE H
				LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	SQFT	SQFT	EA	EA	EA	EA	EA
3B	SC-168	"A" 395+50 TO "A" 408+50	NB	656		1,031			453			61					6			23	29
		"A" 395+50 TO "A" 408+50	SB	250		200						1,501					126			38	7
	SC-169	"A" 408+50 TO "A" 417+50	SB	1,826		1,775						5,401				11	451			119	60
		"SB" 48+50 TO "SB" 62+50	NB		326	4,035	329	111	228						383	30			19	21	
		"SB" 48+50 TO "SB" 62+50	SB		166	166	166	231											8	6	
	SC-170	SEE NOTE 1																			
	SC-171	"A" 417+50 TO "A" 425+50	SB	1,226		1,228			546			4,800	105			11	450			143	37
	SC-172	"A" 425+50 TO "A" 438+50	SB	1,250		1,250						7,500	200	1,050		11	995	70		182	28
	SC-173	SEE NOTE 1																			
	SC-174	SEE NOTE 1																			
	SC-175	SEE NOTE 1																			
	SC-176	"A" 471+50 TO "A" 483+50	NB	701		703						2,807					234			63	16
		"A" 471+50 TO "A" 483+50	SB	700		696						2,792				73	233			63	16
	SC-177	"A-1" 84+25 TO "A-1" 97+50	NB	953		975						3,855				84	322			85	21
		"A-1" 84+25 TO "A-1" 97+50	SB	1,052		1,028						4,161				11	347			91	23
	SC-178	"SB-2" 57+50 TO "SB-2" 65+00	SB	161		161						130					11			4	8
		"SB" 38+50 TO "SB" 48+50	NB			521			142							18					
SHEET SUBTOTAL				8,775	492	13,769	495	342	1,369			33,008	305	1,050	383	249	3,175	70	27	838	245
SHEET TOTAL				25,242								33,008	305	1,050	632		4,355				

STAGE CONSTRUCTION QUANTITIES

SCQ-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU

REVISED BY	DATE REVISED
KLA	12/22/09

LAST REVISION — DATE PLOTTED => 03-FEB-2010, TIME PLOTTED => 15:28
08-10-09

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s135318
DGN FILE => c07163mc009.dgn

CU 12235

EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	880	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

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SUITE 205
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ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

TEMPORARY PAVEMENT DELINEATION QUANTITIES-STAGE 3C

STAGE	SHEET No.	STATION LIMITS	DIRECTION	TEMPORARY TRAFFIC STRIPE (PAINT) 4" SOLID YELLOW DETAIL 24, 25, 25A	4" SOLID DOUBLE YELLOW DETAIL 22, 29	4" SOLID WHITE DETAIL 27B, 36A, 36B	4" WHITE (BROKEN 36'-12') DETAIL 12	4" WHITE (BROKEN 6'-1') DETAIL 40	8" WHITE SOLID DETAIL 36, 36A, 36B, 38, 38A, 38B	8" WHITE (BROKEN 12'-3') DETAIL 37	(N) DETAIL 10	(N) DETAIL 13, HC	(N) DETAIL 38C	(N) DETAIL 37A	TEMPORARY PAVEMENT MARKING (PAINT) DIAGONAL/CHEVRON/ LIMIT LINE/ CROSSWALK (WHITE)	TEMPORARY PAVEMENT MARKING (PAINT) ARROWS/SYMBOLS/ WORDS (WHITE)	TEMPORARY PAVEMENT MARKER TYPE A	TYPE C	TYPE D	TYPE G	TYPE H
				LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	SQFT	SQFT	EA	EA	EA	EA	EA
	SC-179	SEE NOTE 1																			
	SC-180	"A" 408+50 TO "A" 417+50	NB			45						45		45			16	3		4	
		"A" 408+50 TO "A" 417+50	SB	688		918						270					23			12	30
		"SB" 48+50 TO "SB" 62+50	NB			75															
	SC-181	"A" 417+50 TO "A" 425+50	NB	338		170					208	2,150	92	709		11	435	48		68	9
		"A" 417+50 TO "A" 425+50	SB	831		832			541			4,800	299	200		11	584	14		161	21
	SC-182	"A" 425+50 TO "A" 438+50	NB	1,263		812			263			7,569	379			11	791			209	28
		"A" 425+50 TO "A" 438+50	SB	1,250		1,250						7,501		1,250		73	960	84		165	28
	SC-183	SEE NOTE 1																			
	SC-184	SEE NOTE 1																			
	SC-185	SEE NOTE 1																			
3C	SC-186	"A" 471+50 TO "A" 483+50	NB	401		447						1,607				11	134			38	10
		"A" 471+50 TO "A" 483+50	SB	449		403						1,793				62	150			42	11
	SC-187	"A-1" 84+25 TO "A-1" 97+50	NB	956		978						3,868					323			85	21
		"A-1" 84+25 TO "A-1" 97+50	SB	1,049		1,024						5,192					433			113	23
	SC-188	SEE NOTE 1																			
	SC-189	SEE NOTE 1																			
	SC-190	SEE NOTE 1																			
	SC-191	SEE NOTE 1																			
	SC-192	"B" 225+50 TO "B" 237+50	NB	1,145																	25
	SC-193	"B" 237+50 TO "B" 250+50	NB	447																	11
	SC-194	SEE NOTE 1																			
	SC-195	"SB" 36+50	NB			637	23		188											10	
SHEET SUBTOTAL				8,817		7,591	23		992		208	34,795	770	2,204		179	3,849	149		907	217
SHEET TOTAL				17,423							208	34,795	770	2,204	179		5,122				

STAGE CONSTRUCTION QUANTITIES

SCQ-10

REVISED BY	KLA
DATE REVISED	12/22/09
CALCULATED-DESIGNED BY	KELSIE ANDERSON
CHECKED BY	JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR	LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 08-10-09 | DATE PLOTTED => 03-FEB-2010 | TIME PLOTTED => 15:28

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s135318 | DGN FILE => c07163mc010.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	881	1929

REGISTERED CIVIL ENGINEER — DATE 12/22/09

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

TEMPORARY PAVEMENT DELINEATION QUANTITIES-STAGES 3D.1 AND 3D.2

STAGE	SHEET No.	STATION LIMITS	DIRECTION	TEMPORARY TRAFFIC STRIPE (PAINT) 4" SOLID YELLOW DETAIL 24, 25, 25A	4" SOLID DOUBLE YELLOW DETAIL 22, 29	4" SOLID WHITE DETAIL 27B, 36A, 36B	4" WHITE (BROKEN 36'-12') DETAIL 12	4" WHITE (BROKEN 6'-1') DETAIL 40	8" WHITE SOLID DETAIL 36, 36A, 36B, 38, 38A, 38B	8" WHITE (BROKEN 12'-3') DETAIL 37	(N) DETAIL 10	(N) DETAIL 13, HC	(N) DETAIL 38C	(N) DETAIL 37A	TEMPORARY PAVEMENT MARKING (PAINT) DIAGONAL/CHEVRON/ LIMIT LINE/ CROSSWALK (WHITE)	TEMPORARY PAVEMENT MARKING (PAINT) ARROWS/SYMBOLS/ WORDS (WHITE)	TEMPORARY PAVEMENT MARKER TYPE A	TYPE C	TYPE D	TYPE G	TYPE H
				LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	SQFT	SQFT	EA	EA	EA	EA	EA
3D.1	SC-196	"A" 397+50 TO "A" 408+50	NB	317		190						1,105		190		11	144	13		33	12
		"A" 397+50 TO "A" 408+50	SB	375		644						2,250					188			53	9
	SC-197	"A" 408+50 TO "A" 417+50	NB	1,230		900						4,667		900		51	630	61		107	35
		"A" 408+50 TO "A" 417+50	SB	1,789		1,719						6,261				73	522			137	59
		"SB" 48+50 TO "SB" 62+50	NB			689		137													
		"SB" 48+50 TO "SB" 62+50	SB					248													
		"SB-3" 38+50 TO "SB-3" 37+50	SB	1,096		1,025						1,067					89			24	47
	SC-198	SEE NOTE 1																			
	SC-199	"A" 417+50 TO "A" 429+50	NB	1,200		1,201			146			6,074	477	650		73	881	44		185	26
		"A" 417+50 TO "A" 429+50	SB	1,461		1,200			541			7,733	441	229		22	897	16		233	38
	SC-200	"A" 429+50 TO "A" 438+50	NB	145		137			441			1,020					86			49	5
		"A" 429+50 TO "A" 438+50	SB	850		850						5,100		850		73	652	57		115	19
	SC-201	SEE NOTE 1																			
3D.2	SC-202	"A"395+50 TO "A" 408+50	SB	754		1,640			1,458		300	4,020				11	373			162	20
	SC-203	"A" 408+50 TO "A" 417+50	NB	525								2,625		525			359	35		61	12
		"A" 408+50 TO "A" 417+50	SB	900		900						5,400		900			690	60		120	20
		"SB-2" 48+50 TO "SB-2" 57+50	SB	455		443															11
		"SB-3" 38+50 TO "SB-3" 37+50	SB	861																	19
	SC-204	"A" 417+50 TO "A" 425+50	NB	800		50						4,000	150	650			578	44		106	18
		"A" 417+50 TO "A" 425+50	SB	1,260		586			541			4,800	72			11	430			139	39
	SC-205	"A" 425+50 TO "A" 438+50	NB			50						250					51				
		"A" 425+50 TO "A" 438+50	SB	985		985						5,910	228	757			795	51		152	22
SHEET SUBTOTAL				15,003		13,209		385	3,127		300	62,282	1,368	5,651		325	7,365	381		1,676	411
SHEET TOTAL				31,724							300	62,282	1,368	5,651	325		9,833				

STAGE CONSTRUCTION QUANTITIES

SCQ-11

REVISED BY: KLA | DATE REVISED: 12/22/09
CALCULATED-DESIGNED BY: KELSIE ANDERSON | CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 08-10-09 | DATE PLOTTED => 04-FEB-2010 | TIME PLOTTED => 05:31

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmikesl | DGN FILE => c07163mc011.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	882	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

TEMPORARY PAVEMENT DELINEATION QUANTITIES-STAGES 3E

STAGE	SHEET No.	STATION LIMITS	DIRECTION	TEMPORARY TRAFFIC STRIPE (PAINT) 4" SOLID YELLOW DETAIL 24, 25, 25A	4" SOLID DOUBLE YELLOW DETAIL 22, 29	4" SOLID WHITE DETAIL 27B, 36A, 36B	4" WHITE (BROKEN 36'-12') DETAIL 12	4" WHITE (BROKEN 6'-1') DETAIL 40	8" WHITE SOLID DETAIL 36, 36A, 36B, 38, 38A, 38B	8" WHITE (BROKEN 12'-3') DETAIL 37	(N) DETAIL 10	(N) DETAIL 13, HC	(N) DETAIL 38C	(N) DETAIL 37A	TEMPORARY PAVEMENT MARKING (PAINT) DIAGONAL/CHEVRON/ LIMIT LINE/ CROSSWALK (WHITE)	ARROWS/SYMBOLS/ WORDS (WHITE)	TEMPORARY PAVEMENT MARKER TYPE A	TYPE C	TYPE D	TYPE G	TYPE H
				LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	SQFT	SQFT	EA	EA	EA	EA	EA
	SC-206	SEE NOTE 1																			
	SC-207	SEE NOTE 1																			
	SC-208	SEE NOTE 1																			
	SC-209	SEE NOTE 1																			
	SC-210	SEE NOTE 1																			
	SC-211	SEE NOTE 1																			
	SC-212	SEE NOTE 1																			
3E	SC-213	"A-1" 84+25 TO "A-1" 97+50	NB	142		135						139					12			4	7
	SC-214	"A-1" 97+50 TO "A-1" 111+50	NB	447		479						478					40			11	20
	SC-215	SEE NOTE 1																			
	SC-216	SEE NOTE 1																			
	SC-217	SEE NOTE 1																			
	SC-218	SEE NOTE 1																			
	SC-219	SEE NOTE 1																			
	SC-220	SEE NOTE 1																			
SHEET SUBTOTAL				589		614						617					52			15	27
SHEET TOTAL				1,203								617					94				
GRAND TOTAL				351,130							1,816	436,126	6,528	34,434	10,049		66,317				

STAGE CONSTRUCTION QUANTITIES

SCQ-12

REVISED BY	KLA
DATE REVISED	12/22/09
CALCULATED-DESIGNED BY	KELSIE ANDERSON
CHECKED BY	JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR	LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 08-10-09
DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 05:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	883	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

TEMPORARY STAGE CONSTRUCTION QUANTITIES-STAGES 1A.1, 1A.2 AND 1A.3

STAGE	SHEET No.	STATION LIMITS	CHANNELIZER (SURFACE MOUNTED)	CHANNELIZER (EMBEDDED)	TYPE III BARRICADE	TEMPORARY TERMINAL SECTION (TYPE K)	TEMPORARY TERMINAL SECTION (TYPE K) Mod	TEMPORARY RAILING (TYPE 60R) Mod	TEMPORARY RAILING (TYPE K)	TEMPORARY TRAFFIC SCREEN	TEMPORARY CRASH CUSHION MODULE ARRAY					(N) HMA OVERLAY	HOT MIX ASPHALT	CLASS 2 AGGREGATE BASE
											TB11	TS11	TS14	TU14	TU21			
			EA	EA	EA	EA	EA	EA	LF	LF	EA	EA	EA	EA	EA	SQFT	TON	CY
1A.1	SC-14	SEE NOTE 1																
	SC-15	"A" 408+50 TO "A" 417+50	13						520		11						282	
	SC-16	"A" 417+50 TO "A" 428+50	19		1													
	SC-17	"A" 428+50 TO "A" 441+50	6						820	820			14					
	SC-18	"A" 441+50 TO "A" 454+00	12						1,140				28				159	
	SC-19	SEE NOTE 1																
	SC-20	"XB-3" 45+50 TO "XB-3" 58+50	8						1,180				14					
	SC-21	"XB-3" 58+50 TO "XB-3" 71+50	1															
	SC-22	"SB" 38+50 TO "SB" 48+50	17						100			11	14				46	
	SC-23	SEE NOTE 1																
	SC-24	SEE NOTE 1																
1A.2	SC-25	"A" 416+50 TO "A" 425+50																
	SC-26	"A" 425+50 TO "A" 438+50	8	17	1				2,232	932		11	14				45	
	SC-27	"A" 438+50 TO "A" 451+50	6						6,372	2,945							2,048	
	SC-28	SEE NOTE 1																
	SC-29	"A" 451+50 TO "A" 458+50	2						2,825	1,220			14				2,601	
	SC-30	"A" 458+50 TO "A" 471+50	28						3,632	2,267			14				1,880	
	SC-31	SEE NOTE 1																
	SC-32	"A" 471+50 TO "A" 483+50	11						3,035	1,198							209	
	SC-33	"A-1" 84+50 TO "A-1" 97+50	16						455	109			14					
	SC-34	"A-1" 97+50 TO "A-1" 111+50	9						3,136	1,256			14				1,868	
	SC-35	SEE NOTE 1	34										14					
	SC-36	"A-1" 111+50 TO "B" 215+50							1,052	1,052							756	
	SC-37	"B" 215+50 TO "B" 229+50							752	752								
	SC-38	"XC" 172+50 TO "A-2" 16+50	15						649	649			14					
	SC-39	"A" 415+50	24		5													
1A.3	SC-40	"A" 424+50 TO "A" 438+50	8						870				14					
	SC-41	"A" 438+50 TO "A" 451+50							2,381								129	
	SC-42	"A" 451+50 TO "A" 458+50	7						717									
	SC-43	"A" 458+50 TO "A" 472+50	26		1				992				14					
SHEET SUBTOTAL			270	17	8				32,860	13,200	11	22	196				10,023	
SHEET TOTAL			270	17	8				32,860	13,200	229						10,023	

STAGE CONSTRUCTION QUANTITIES

SCQ-13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA — DATE REVISED: 12/22/09
LAST REVISION DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 05:31
08-10-09

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	884	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

TEMPORARY STAGE CONSTRUCTION QUANTITIES-STAGES 1B.1, 1B.2, 1B.3, 1B.4 AND 1B.5

STAGE	SHEET No.	STATION LIMITS	CHANNELIZER (SURFACE MOUNTED)	CHANNELIZER (EMBEDDED)	TYPE III BARRICADE	TEMPORARY TERMINAL SECTION (TYPE K)	TEMPORARY TERMINAL SECTION (TYPE K) Mod	TEMPORARY RAILING (TYPE 60R) Mod	TEMPORARY RAILING (TYPE K)	TEMPORARY TRAFFIC SCREEN	TEMPORARY CRASH CUSHION MODULE ARRAY					(N)	HOT MIX ASPHALT	CLASS 2 AGGREGATE BASE
											TB11	TS11	TS14	TU14	TU21	HMA OVERLAY		
			EA	EA	EA	EA	EA	EA	LF	LF	EA	EA	EA	EA	EA	SQFT	TON	CY
1B.1	SC-44	"A" 415+50 TO "A" 425+50	7						265	265			14					
	SC-45	"A" 425+50 TO "A" 438+50				1			1,492	1,492								
	SC-46	"A" 438+50 TO "A" 451+50	1						3,631	2,772								
	SC-47	SEE NOTE 1																
	SC-48	"A" 451+50 TO "A" 458+50	20						1,558	848			14					
	SC-49	"A" 458+50 TO "A" 471+50	42				1		4,043	1,369			42				394	79
	SC-50	SEE NOTE 1																
	SC-51	"A" 471+50 TO "A" 483+50	1						4,710	1,867			28				2,616	518
	SC-52	SEE NOTE 1																
	SC-53	"A-1" 84+25 TO "A-1" 97+50	9						1,127	407			14				504	80
	SC-54	"A-1" 97+50 TO "A-1" 111+50	18						4,350	2,560			14		21		1,510	
	SC-55	SEE NOTE 1																
	SC-56	"A-1" 111+50 TO "B" 215+50	8						1,398				14				589	
	SC-57	"B" 215+50 TO "B" 225+50	17						1,142								570	
	SC-58	"B" 225+50 TO "B" 238+50	8						1,017				14				275	
	SC-59	SEE NOTE 1																
1B.2	SC-60	SEE NOTE 1																
	SC-61	"A" 438+50 TO "A" 451+50															37	
	SC-62	"A" 451+50 TO "A" 458+50	5														1	
	SC-63	"A" 458+50 TO "A" 471+50	29						1,649	582			56					
	SC-64	"A" 471+50 TO "A" 483+50	26						5,464	2,938			14				485	
	SC-65	SEE NOTE 1																
	SC-66	"A-1" 84+25 TO "A-1" 98+50							327								9	
	SC-67	"A-1" 98+50 TO "A-1" 111+50							1,366									
	SC-68	"A-1" 111+50 TO "B" 215+50							154						21			
1B.3	SC-69	"A" 408+50 TO "A" 417+50	11						651	651			14					
	SC-70	"A" 417+50 TO "A" 427+50							1,000	1,000								
	SC-71	"A" 427+50 TO "A" 441+50	19						1,049	889								
	SC-72	SEE NOTE 1																
1B.4	SC-73	"A-3" 43+00 TO "A-3" 64+90															20	40
	SC-74	"A-1" 97+50 TO "A-1" 111+50	6						1,020	1,020			14				22	44
	SC-75	"A-1" 111+50 TO "B" 215+50																
1B.5	SC-76	SEE NOTE 1																
SHEET SUBTOTAL			227			1	1		37,420	18,660			252		42		7,032	761
SHEET TOTAL			227			1	1		37,420	18,660	294						7,032	761

STAGE CONSTRUCTION QUANTITIES

SCQ-14

REVISED BY: KLA — DATE REVISED: 12/22/09
KELSIE ANDERSON — JULIET SU
CALCULATED-DESIGNED BY — CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION DATE PLOTTED => 04-FEB-2010
08-10-09 TIME PLOTTED => 05:31

BORDER LAST REVISED 8/1/2008 — RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 — USERNAME => trmikesl — DGN FILE => c07163mc014.dgn — CU 12235 — EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	885	1929

REGISTERED CIVIL ENGINEER — DATE 12/22/09

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

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SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

TEMPORARY STAGE CONSTRUCTION QUANTITIES-STAGES 2A, 2B.1, 2B.2 AND 2B.3

STAGE	SHEET No.	STATION LIMITS	CHANNELIZER (SURFACE MOUNTED)	CHANNELIZER (EMBEDDED)	TYPE III BARRICADE	TEMPORARY TERMINAL SECTION (TYPE K)	TEMPORARY TERMINAL SECTION (TYPE K) Mod	TEMPORARY RAILING (TYPE 60R) Mod	TEMPORARY RAILING (TYPE K)	TEMPORARY TRAFFIC SCREEN	TEMPORARY CRASH CUSHION MODULE ARRAY					(N) HMA OVERLAY	HOT MIX ASPHALT	CLASS 2 AGGREGATE BASE
											TB11	TS11	TS14	TU14	TU21			
			EA	EA	EA	EA	EA	EA	LF	LF	EA	EA	EA	EA	EA	SQFT	TON	CY
2A	SC-77	"A" 408+50 TO "A" 417+50	28						1,879			11					897	
	SC-78	SEE NOTE 1																
	SC-79	"A" 417+50 TO "A" 425+50	14						274				14		21		518	
	SC-80	"A" 425+50 TO "A" 438+50	10						1,015	50							54	
	SC-81	"A" 438+50 TO "A" 451+50	4					1	3,894	2,634			14				160	
	SC-82	"A" 451+50 TO "A" 458+50	2				1		1,377	1,322								
	SC-83	"A" 458+50 TO "A" 471+50	16						3,265	2,182			28					
	SC-84	"A" 471+50 TO "A" 483+50	6						2,856	1,926				14				
	SC-85	"A-1" 84+25 TO "A-1" 97+50	14						1,013	226			14					
	SC-86	"A-1" 97+50 TO "A-1" 111+50	32						478						21		194	
	SC-87	"A-1" 111+50 TO "B" 215+50	21						922									
	SC-88	"B" 215+50 TO "B" 225+50	20															
	SC-89	"B" 225+50 TO "B" 238+50	15															
	SC-90	SEE NOTE 1																
	SC-91	"SB" 38+50 TO "SB" 48+50	74						887				14					
	SC-92	"SB" 62+50 TO "SB" 70+00																
2B.1	SC-93	"A" 394+00 TO "A" 398+50							750	690								
	SC-94	"A" 398+50 TO "A" 408+50	5				1		2,607	993			14				375	274
	SC-95	SEE NOTE 1																
	SC-96	"A" 408+50 TO "A" 417+50	56					1	6,492	2,771		11			21		2,221	194
	SC-97	SEE NOTE 1																
	SC-98	"A" 417+50 TO "A" 425+50	9			1			2,024	1,006					21		581	
	SC-99	"A" 425+50 TO "A" 438+50	5						900				14					
	SC-100	SEE NOTE 1																
	SC-101	SEE NOTE 1																
	SC-102	SEE NOTE 1																
	SC-103	SEE NOTE 1																
	SC-104	"A-1" 84+75 TO "A-1" 97+50							1,012	783							476	
	SC-105	SEE NOTE 1																
	SC-106	"A-1" 97+50 TO "A-1" 111+50							1,128	537							459	
	SC-107	"SB" 38+50 TO "SB" 48+50	13						207				14				5	
2B.2	SC-108	"A" 458+50 TO "A" 471+50	24						580	580								
2B.3	SC-109	"A" 438+00 TO "A" 451+50	28						94									
	SC-110	"A" 451+50 TO "A" 458+50	8						517	31			14					
	SC-111	"A" 458+50 TO "A" 471+50	18						2,029	869								
	SC-112	SEE NOTE 1																
	SC-113	SEE NOTE 1																
	SC-114	SEE NOTE 1																
SHEET SUBTOTAL			422			1	2	2	36,200	16,600		22	140	14	84		5,940	468
SHEET TOTAL			422			1	2	2	36,200	16,600	260						5,940	468

STAGE CONSTRUCTION QUANTITIES

SCQ-15

KELSIE ANDERSON — REVISED BY — KLA
JULIET SU — DATE REVISED — 12/22/09
CALCULATED-DESIGNED BY
CHECKED BY
LEONARD SEQUEIRA — CONSULTANT FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 08-10-09 — DATE PLOTTED => 04-FEB-2010 — TIME PLOTTED => 05:31

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	886	1929

REGISTERED CIVIL ENGINEER — DATE 12/22/09

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU — No. C56168 — Exp.12/31/10 — CIVIL — STATE OF CALIFORNIA

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ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

TEMPORARY STAGE CONSTRUCTION QUANTITIES-STAGES 2C.1, 2C.2, 2D.1 AND 2D.2

STAGE	SHEET No.	STATION LIMITS	CHANNELIZER (SURFACE MOUNTED)	CHANNELIZER (EMBEDDED)	TYPE III BARRICADE	TEMPORARY TERMINAL SECTION (TYPE K)	TEMPORARY TERMINAL SECTION (TYPE K) Mod	TEMPORARY RAILING (TYPE 60R) Mod	TEMPORARY RAILING (TYPE K)	TEMPORARY TRAFFIC SCREEN	TEMPORARY CRASH CUSHION MODULE ARRAY					(N) HMA OVERLAY	HOT MIX ASPHALT	CLASS 2 AGGREGATE BASE
											TB11	TS11	TS14	TU14	TU21			
			EA	EA	EA	EA	EA	EA	LF	LF	EA	EA	EA	EA	EA	SQFT	TON	CY
2C.1	SC-115	"A" 387+50 TO "A" 398+50	13						1,234	313			14		21			
	SC-116	"A" 398+50 TO "A" 408+50							4,813	3,817								
	SC-117	"A" 408+50 TO "A" 417+50	53		5				3,132	1,465		22				855	109	
	SC-118	SEE NOTE 1																
	SC-119	SEE NOTE 1																
	SC-120	"A" 425+50 TO "A" 438+50	14						1,090	750			14					
	SC-121	"A" 438+50 TO "A" 451+50	6						2,141	610			14					
	SC-122	"A" 451+50 TO "A" 458+50							877									
	SC-123	"A" 458+50 TO "A" 471+50	4						2,444				14					
	SC-124	"A" 471+50 TO "A" 483+50	9						2,181	149				14			75	
	SC-125	"A-1" 84+25 TO "A-1" 97+50				1			2,267	1,051							1,204	
	SC-126	"XB-3" 49+50 TO "XB-3" 58+50							799									
	SC-127	"XB-3" 58+50 TO "XB-3" 71+50							1,299									
	SC-128	"XB-3" 71+50 TO "XA-5" 45+00	14						362				14					
	SC-129	"SB" 38+50 TO "SB" 48+50	33						1,201	225		11	14					
	SC-130	"SB" 62+50 TO "SB" 70+00	18															
2C.2	SC-131	SEE NOTE 1																
	SC-132	"A" 398+50 TO "A" 408+50							900	900								
	SC-133	"A" 408+50 TO "A" 417+50							840	840								
2D.1	SC-134	SEE NOTE 1																
	SC-135	"A" 398+50 TO "A" 408+50	34						1,560	900			28				113	
	SC-136	"A" 408+50 TO "A" 417+50	21		5				2,040	180	11	22				1,470	18	
	SC-137	SEE NOTE 1																
	SC-138	SEE NOTE 1																
	SC-139	SEE NOTE 1																
	SC-140	SEE NOTE 1																
	SC-141	"A" 458+50 TO "A" 471+50							346	346			14					
	SC-142	"A" 471+50 TO "A" 483+50							674	674							193	324
	SC-143	"A-1" 84+25 TO "A-1" 97+50	6						455	455			14				315	623
	SC-144	"A-1" 97+50 TO "A-1" 111+50							425	425							83	164
	SC-145	SEE NOTE 1																
	SC-146	SEE NOTE 1																
2D.2	SC-147	"SB" 51+50 TO "SB" 63+50															633	
	SC-148	SEE NOTE 1																
SHEET SUBTOTAL			225		10	1			31,080	13,100	11	55	140	14	21	2,325	2,743	1,111
SHEET TOTAL			225		10	1			31,080	13,100	241					2,325	2,743	1,111

STAGE CONSTRUCTION QUANTITIES

SCQ-16

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 05:32
08-10-09

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	887	1929

REGISTERED CIVIL ENGINEER — DATE 12/22/09

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
PLANS APPROVAL DATE

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ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

TEMPORARY STAGE CONSTRUCTION QUANTITIES-STAGES 3A.1, 3A.2 AND 3B

STAGE	SHEET No.	STATION LIMITS	CHANNELIZER (SURFACE MOUNTED)	CHANNELIZER (EMBEDDED)	TYPE III BARRICADE	TEMPORARY TERMINAL SECTION (TYPE K)	TEMPORARY TERMINAL SECTION (TYPE K) Mod	TEMPORARY RAILING (TYPE 60R) Mod	TEMPORARY RAILING (TYPE K)	TEMPORARY TRAFFIC SCREEN	TEMPORARY CRASH CUSHION MODULE ARRAY					(N) HMA OVERLAY	HOT MIX ASPHALT	CLASS 2 AGGREGATE BASE
											TB11	TS11	TS14	TU14	TU21			
			EA	EA	EA	EA	EA	EA	LF	LF	EA	EA	EA	EA	EA	SQFT	TON	CY
	SC-149	SEE NOTE 1																
	SC-150	"A" 395+50 TO "A" 398+50	8						1,030	600			14					
	SC-151	"A" 398+50 TO "A" 408+50	25						3,289	2,000			28				222	
	SC-152	"A" 408+50 TO "A" 417+50	28			1			4,983	2,308	11		14				459	
	SC-153	SEE NOTE 1																
	SC-154	"A" 417+50 TO "A" 425+50	11						1,053	252					21			
	SC-155	"A" 425+50 TO "A" 438+50	8						326				14					
	SC-156	SEE NOTE 1																
3A.1	SC-157	SEE NOTE 1																
	SC-158	"A" 458+50 TO "A" 471+50	2															
	SC-159	"A" 471+50 TO "A" 483+50	14						2,306	1,217			28					
	SC-160	"A-1" 84+25 TO "A-1" 97+50	32						1,211	83					21			
	SC-161	"A-1" 97+50 TO "A-1" 111+50	8						2,425				14				201	
	SC-162	"A-1" 111+50 TO "B" 215+50							1,417									
	SC-163	"B" 215+50 TO "B" 229+50							1,041									
	SC-164	"SB" 32+50 TO "SB" 48+50	44						439			11	14					
	SC-165	SEE NOTE 1																
3A.2	SC-166	"A" 413+50 TO "A" 425+50	9						2,071						21		130	
	SC-167	"A" 425+50 TO "A" 438+50	10						369				14					
	SC-168	"A" 395+50 TO "A" 408+50	14						2,470	250			14		21			
	SC-169	"A" 408+50 TO "A" 417+50	2						3,416	1,969		11					205	139
	SC-170	SEE NOTE 1																
	SC-171	"A" 417+50 TO "A" 425+50	9			1			2,144	1,341					21			
	SC-172	"A" 425+50 TO "A" 438+50	11						160				14					
3B	SC-173	SEE NOTE 1																
	SC-174	SEE NOTE 1																
	SC-175	SEE NOTE 1																
	SC-176	"A" 471+50 TO "A" 483+50	1			1												
	SC-177	"A" 483+50 TO "A" 495+50	27						1,360				28					
	SC-178	"SB" 38+50 TO "SB" 48+50	19						410			11						
SHEET SUBTOTAL			282			3			31,920	10,020	11	33	196		105		1,217	139
SHEET TOTAL			282			3			31,920	10,020	345						1,217	139

STAGE CONSTRUCTION QUANTITIES

SCQ-17

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
REVISED BY: KLA
DATE REVISED: 12/22/09
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION: DATE PLOTTED => 04-FEB-2010
08-10-09 TIME PLOTTED => 05:32

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmikesl
DGN FILE => c07163mc017.dgn
CU 12235
EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	888	1929

REGISTERED CIVIL ENGINEER — DATE 12/22/09

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

TEMPORARY STAGE CONSTRUCTION QUANTITIES-STAGE 3C

STAGE	SHEET No.	STATION LIMITS	CHANNELIZER (SURFACE MOUNTED)	CHANNELIZER (EMBEDDED)	TYPE III BARRICADE	TEMPORARY TERMINAL SECTION (TYPE K)	TEMPORARY TERMINAL SECTION (TYPE K) Mod	TEMPORARY RAILING (TYPE 60R) Mod	TEMPORARY RAILING (TYPE K)	TEMPORARY TRAFFIC SCREEN	TEMPORARY CRASH CUSHION MODULE ARRAY					(N) HMA OVERLAY	HOT MIX ASPHALT	CLASS 2 AGGREGATE BASE
											TB11	TS11	TS14	TU14	TU21			
			EA	EA	EA	EA	EA	EA	LF	LF	EA	EA	EA	EA	EA	SQFT	TON	
	SC-179	SEE NOTE 1																
	SC-180	"A" 408+50 TO "A" 417+50	2						1,772	1,199								
	SC-181	"A" 417+50 TO "A" 425+50	17						2,383	1,751			14		21			
	SC-182	"A" 425+50 TO "A" 438+50	13						2,600	2,600								
	SC-183	"A" 438+50 TO "A" 451+50							790	790								
	SC-184	SEE NOTE 1																
	SC-185	SEE NOTE 1																
	SC-186	"A" 471+50 TO "A" 483+50	8						953					14				
3C	SC-187	"A-1" 84+25 TO "A-1" 97+50	5			1			3,387	500			14				253	
	SC-188	SEE NOTE 1																
	SC-189	"A-1" 97+50 TO "A-1" 111+50							1,399	1,399								
	SC-190	"A-1" 111+50 TO "B" 215+50							1,048	901								
	SC-191	"B" 215+50 TO "B" 225+50							1,050									
	SC-192	"B" 225+50 TO "B" 237+50							2,402									
	SC-193	"B" 237+50 TO "B" 250+50	8						1,021				14					
	SC-194	SEE NOTE 1																
	SC-195	"SB" 36+50 TO "SB" 48+50	30						295			11						
SHEET SUBTOTAL			83			1			19,100	9,140		11	42	14	21		253	
SHEET TOTAL			83			1			19,100	9,140	88						253	

STAGE CONSTRUCTION QUANTITIES

SCQ-18

REVISED BY	KLA
DATE REVISED	12/22/09
CALCULATED-DESIGNED BY	KELSIE ANDERSON
CHECKED BY	JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR	LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 08-10-09
DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 05:32

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmikesl
DGN FILE => c07163mc018.dgn
CU 12235
EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	889	1929

REGISTERED CIVIL ENGINEER — DATE: 12/22/09

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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550 S. MAIN STREET
ORANGE, CA 92863-1584

TEMPORARY STAGE CONSTRUCTION QUANTITIES-STAGES 3D.1, 3D.2 AND 3E

STAGE	SHEET No.	STATION LIMITS	CHANNELIZER (SURFACE MOUNTED)	CHANNELIZER (EMBEDDED)	TYPE III BARRICADE	TEMPORARY TERMINAL SECTION (TYPE K)	TEMPORARY TERMINAL SECTION (TYPE K) Mod	TEMPORARY RAILING (TYPE 60R) Mod	TEMPORARY RAILING (TYPE K)	TEMPORARY TRAFFIC SCREEN	TEMPORARY CRASH CUSHION MODULE ARRAY					(N) HMA OVERLAY	HOT MIX ASPHALT	CLASS 2 AGGREGATE BASE
											TB11	TS11	TS14	TU14	TU21			
			EA	EA	EA	EA	EA	EA	LF	LF	EA	EA	EA	EA	EA	SQFT	TON	CY
3D.1	SC-196	"A" 398+50 TO "A" 408+50	6						451	375			14					
	SC-197	"A" 408+50 TO "A" 417+50	38						4,645	3,496			14					
	SC-198	SEE NOTE 1																
	SC-199	"A" 417+50 TO "A" 429+50	21				1		3,319	2,454			28		21			
	SC-200	"A" 429+50 TO "A" 438+50							1,525	1,035								
	SC-201	"SB" 62+50 TO "SB" 70+00	23															
3D.2	SC-202	"A" 395+50 TO "A" 408+50	6						805				14					
	SC-203	"A" 408+50 TO "A" 417+50						2	3,166	346								
	SC-204	"A" 417+50 TO "A" 425+50	8			1			1,829	534					21			
	SC-205	"A" 425+50 TO "A" 438+50																
3E	SC-206	"A" 395+50 TO "A" 417+50					1		1,280	1,280								
	SC-207	"A" 417+50 TO "A" 425+50					1		1,220	1,220								
	SC-208	SEE NOTE 1																
	SC-209	SEE NOTE 1																
	SC-210	SEE NOTE 1																
	SC-211	"A" 458+50 TO "A" 471+50	6						791	291			14					
	SC-212	"A" 471+50 TO "A" 483+50	5						1,320	1,271			14				1	
	SC-213	"A-1" 84+25 TO "A-1" 97+50	17						3,002	1,098			42					
	SC-214	"A-1" 97+50 TO "A-1" 111+50	4						727				14					
	SC-215	SEE NOTE 1																
	SC-216	SEE NOTE 1																
	SC-217	SEE NOTE 1																
	SC-218	"B" 237+50 TO "B" 247+50	3						758	758								
	SC-219	"B" 247+50 TO "B" 260+50	19						3,002	2,042					21			
	SC-220	"B" 260+50 TO "HV" 273+50							620	620			14					
SHEET SUBTOTAL			156			1	3	2	28,460	16,820			196		63		1	
SHEET TOTAL			156			1	3	2	28,460	16,820			259				1	
GRAND TOTAL			1,665	17	18**	8	6	4	217,040	97,540	1,716					2,325	27,209*	2,479*

* FOR ADDITIONAL QUANTITIES OF HOT MIX ASPHALT AND CLASS 2 AGGREGATE BASE, SEE SUMMARY OF QUANITIES - PAVEMENT STRUCTURAL SECTION (Q-6).

** FOR ADDITIONAL QUANTITIES OF TYPE III BARRICADE, SEE STAGE CONSTRUCTION QUANTITIES - CONSTRUCTION AREA SIGNS (SCQ-30).

STAGE CONSTRUCTION QUANTITIES

SCQ-19

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 04-FEB-2010
08-10-09 TIME PLOTTED => 05:32

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmikesl
DGN FILE => c07163mc019.dgn

CU 12235

EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	890	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

TEMPORARY CURB RAMP DETECTABLE WARNING SURFACE

STAGE	SHEET No.	SQFT
1A.1	SC-22	36
	SCD-6	15
	SCD-7	15
	SCD-8	45
	TOTAL	111

TEMPORARY FENCE

STAGE	SHEET	LF
1A.1	SC-13	15,004
	TOTAL	15,004

TEMPORARY DRAINAGE FACILITY QUANTITIES

STAGE	SHEET No.	STATION LIMITS	18" TEMPORARY CULVERT	24" TEMPORARY CULVERT	36" TEMPORARY CULVERT	TEMPORARY PIPE INLET	(N) GRATES		MISC IRON AND STEEL	TEMPORARY ROCK SLOPE PROTECTION	TEMPORARY FLARED END SECTION	TEMPORARY STRUCTURAL CONCRETE (BOX CULVERT)	PLACE TEMPORARY HMA DIKE	TEMPORARY 18" DOWNDRAIN	TEMPORARY MINOR CONCRETE		REMARKS
							TYPE 24-10C	TYPE 36R							JUNCTION STRUCTURE	CONCRETE COLLAR	
			LF	LF	LF	LF	EA	EA	LB	TON	EA	CY	LF	LF	CY	CY	
1A.1	SC-19	"XC" 160+50 TO "XB-3" 45+50					6		1,173								
1A.2	SC-26	"A" 425+50 TO "A" 438+50		517		4		1	1,955		1	10.1			0.5	3.4	4′ x 2′
	SC-27	"A" 438+50 TO "A" 451+50	21	116		4	10	1			1				0.4	0.4	
	SC-29	"A" 451+50 TO "A" 458+50					12		2,346								
	SC-30	"A" 458+50 TO "A" 471+50					16		3,128								
	SC-32	"A" 471+50 TO "A" 483+50					18		3,519								
	SC-34	"A-1" 97+50 TO "A-1" 111+50		19			18		3,519		1					0.4	
	SC-36	"A" 111+50 TO "B" 215+50					8		1,564								
1B.1	SC-51	"A" 471+50 TO "A" 483+50		42		5		1	236					60			
	SC-53	"A-1" 84+25 TO "A-1" 97+50	91														
	SC-54	"A-1" 97+50 TO "A-1" 111+50	142	51		6	2	1	627	1.1	1					0.4	
	SC-56	"A-1" 111+50 TO "B" 215+50					4		782								
	SC-57	"B" 215+50 TO "B" 225+50					6		1,173								
	SC-58	"B" 225+50 TO "B" 238+50					6		1,173								
1B.2	SC-64	"A" 471+50 TO "A" 483+50					16		3,128				190				HMA DIKE (TYPE A)
1B.4	SC-73	"A-1" 97+50 TO "A-1" 111+50		28		6		1	236							0.4	
2B.1	SC-93	"A" 398+50 TO "A" 408+50			149										0.7		
	SC-95	"A" 408+50 TO "A" 417+50	32			2		1	236				151		0.4		HMA DIKE (TYPE D)
2C.1	SC-116	"A" 398+50 TO "A" 408+50					4		782								
	SC-124	"A" 471+50 TO "A" 483+50					4		782								
	SC-125	"A-1" 84+25 TO "A-1" 97+50					8		1,564								
2D.1	SC-142	"A" 408+50 TO "A" 417+50	73			10		2	472					60			
3A.1	SC-154	"A" 417+50 TO "A" 425+50					2		391								
	SC-158	"A" 408+50 TO "A" 417+50	200													0.2	
	SC-161	"A-1" 97+50 TO "A-1" 111+50					2		391								
3A.2	SC-166	"A" 413+50 TO "A" 425+50					10		1,955								
	SC-167	"A" 425+50 TO "A" 483+50					2		391								
3C	SC-187	"A-1" 84+25 TO "A-1" 97+50					2		391								
3D.1	SC-197	"A" 408+50 TO "A" 417+50					4		782								
	SC-199	"A" 417+50 TO "A" 425+50					12		2,346								
SUBTOTAL			559	773	149	37	172	8	35,514***	1.1	4	10.1	341	120	2.0	5.2	
TOTAL			559	773	149	37	172	8	35,514***	1.1	4	10.1	341	120	7.2		

*** FOR ADDITIONAL QUANTITIES OF MISCELLANEOUS IRON AND STEEL, SEE DRAINAGE QUANTITIES.

STAGE CONSTRUCTION QUANTITIES

SCQ-20

REVISED BY	DATE REVISED
KLA	12/22/09
KELSIE ANDERSON	JULIET SU

CALCULATED-DESIGNED BY | CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION DATE PLOTTED => 04-FEB-2010
08-10-09 TIME PLOTTED => 05:32

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmikesl DGN FILE => c07163mc020.dgn | CU 12235 | EA 071631

NOTES:

1. NO QUANTITIES THIS SHEET.
2. SEE REMARKS FOR POST SIZE.

CONSTRUCTION AREA SIGNS 1A.1 AND 1A.2

STAGE	SHEET No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS			SIGNS MOUNTED ON TYPE III BARRICADE	REMARKS
				TEMPORARY OVERLAY SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	TYPE III BARRICADE	
						EA	EA	
1A.1	SC-14	W4-2R	48" x 48"		1-6" X 6"	1		
		W61E(CA) Mod		192" x 20"		1		"CLOSED"
	SC-15			120" x 52"		1		BLANK PANEL
		R61-17(CA)	64" x 30"		2-4" X 6"	3		
		W11-1	36" x 36"		1-6" X 6"	5		
		M4-8	24" x 12"					
		W16-1	24" x 30"					
	SC-16	R11-2	48" x 30"				2	"RAMP CLOSED"
		C30A(CA)	48" x 48"		1-6" X 6"	1		"1 MILE"
		W7-3A	24" x 18"					
		W61E(CA) Mod		192" X 20"		1		"CLOSED"
	SC-17	SEE NOTE 1						
	SC-18	C30A(CA)	48" x 48"		1-6" X 6"	1		"1100 FT"
		W7-3A	24" x 18"					
	SC-19	SEE NOTE 1						
	SC-20	SEE NOTE 1						
	SC-21	C30A(CA)	48" x 48"		1-6" x 6"	1		"1/4 MILE"
		W7-3A	24" x 18"					
		C30A(CA)	48" x 48"		1-6" x 6"	1		"1/2 MILE"
		W7-3A	24" x 18"					
	SC-22	R81-2(CA)	24" x 18"			1		MOUNTED ON PORTABLE SUPPORT
		R81B-1(CA)	8" x 5"					
		W11-1	36" x 36"			1		MOUNTED ON PORTABLE SUPPORT
		M4-8	24" x 12"					
		W16-1	24" x 30"					
		W11-1	36" x 36"			1		MOUNTED ON PORTABLE SUPPORT
		M4-8A	24" x 18"					
	SC-23	R81-2(CA)	24" x 18"		1-4" X 6"	1		
		R81B-1(CA)	8" x 5"					
		W11-1	36" x 36"		1-4" X 6"	1		
		M4-8A	24" x 18"					
	SC-24	SEE NOTE 1						
1A.2	SC-25	W11-1	24" x 24"		1-6" x 6"	1		
		W16-1	18" x 24"					
	SC-26	G86-5(CA) Mod	204" x 108"		2-SEE NOTE 2	1		LAMINATED WOOD POST (TYPE M)
	SC-27	G66-21(CA)	30" x 30"		2-4" X 4"	1		"1/2 MILE"
		G66-21A(CA)	18" x 18"					
		G95B(CA)	108" x 72"		2-6" X 6"	1		
		G86-7(CA) Mod	180" x 96"		2-SEE NOTE 2	1		LAMINATED WOOD POST (TYPE M)
		W4-3R	48" x 48"		1-6" X 6"	1		
	SC-28	SEE NOTE 1						
	SC-29	W4-2R	48" x 48"		1-6" x 6"	1		
		W4-7L	48" x 48"		1-6" x 6"	1		
	SC-30	W4-2R	48" x 48"		1-6" x 6"	1		
		W4-3R	48" x 48"		1-6" x 6"	1		
	SC-31	SEE NOTE 1						
					SUBTOTAL		2	

CONSTRUCTION AREA SIGNS 1A.2 AND 1A.3

STAGE	SHEET No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS			SIGNS MOUNTED ON TYPE III BARRICADE	REMARKS
				TEMPORARY OVERLAY SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	TYPE III BARRICADE	
						EA	EA	
1A.2	SC-32	G85-3(CA) Mod	174" x 114"		2-SEE NOTE 2	1		LAMINATED WOOD POST (TYPE M)
		C30A(CA)	48" x 48"		1-6" x 6"	1		"1/4 MILE"
		W7-3A	24" x 18"					
		C30A(CA)	48" x 48"		1-6" x 6"	1		"1/2 MILE"
		W7-3A	24" x 18"					
		W1-4L	48" x 48"		1-6" x 6"	2		
	SC-33	C30A(CA)	48" x 48"		1-6" x 6"	2		"1/2 MILE"
		W7-3A	24" x 18"					
		C30A(CA)	48" x 48"		1-6" x 6"	1		"1 MILE"
		W7-3A	24" x 18"					
		W1-4L	48" x 48"		1-6" x 6"	2		
	SC-34	R82-1(CA)	30" x 60"		1-4" X 6"	1		
		W4-3R	48" x 48"		1-6" x 6"	2		
	SC-35	SEE NOTE 1						
	SC-36	SR50-2(CA)	30" x 66"			1		"$341" MOUNTED ON BARRIER
		W1-4R	48" x 48"		1-6" x 6"	1		
		W1-4R	30" x 30"			1		MOUNTED ON BARRIER
	SC-37	G86-5(CA) Mod	132" x 108"		2-SEE NOTE 2	1		LAMINATED WOOD POST (TYPE M)
		R86-2(CA)	30" x 60"			1		MOUNTED ON BARRIER
		R93-2(CA)	30" x 72"			1		MOUNTED ON BARRIER
		R93A(CA)	30" x 12"					
	SC-38	C30A(CA)	48" x 48"		1-6" x 6"	1		"1/2 MILE"
		W7-3A	24" x 18"					
		C30A(CA)	48" x 48"		1-6" x 6"	1		"3/4 MILE"
		W7-3A	24" x 18"					
		W1-4L	48" x 48"		1-6" x 6"	2		
	SC-39	R3-2	30" x 30"		1-4" x 4"	1		
		R3-5L	30" x 30"				1	
		R6-1R	36" x 12"		1-4" X 4"	1		
		R11-2	48" x 30"				4	
		W20-3	36" x 36"		1-6" x 6"	1		"500 FT"
1A.3	SC-40	R11-2	48" x 30"				1	
	SC-41	SEE NOTE 1						
	SC-42	SEE NOTE 1						
	SC-43	SEE NOTE 1						
						SUBTOTAL	6	
						SHEET TOTAL	8	

STAGE CONSTRUCTION QUANTITIES

SCQ-21

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	891	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

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IRVINE, CA 92606

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

LAST REVISION DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 08:32
08-10-09

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	892	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

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CONSTRUCTION AREA SIGNS 1B.1

STAGE	SHEET No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS: TEMPORARY OVERLAY SIZE	CONSTRUCTION AREA SIGNS: No. OF POSTS AND SIZE	CONSTRUCTION AREA SIGNS: No. OF SIGNS EA	SIGNS MOUNTED ON TYPE III BARRICADE: TYPE III BARRICADE EA	REMARKS
1B.1	SC-44	C30A(CA)	48" × 48"		1-6" × 6"	1		RELOCATE
		W7-3A	24" × 18"					
	SC-45	C30A(CA)	30" × 30"			1		"1 MILE" MOUNTED ON BARRIER
		W7-3A	24" × 18"					
		R11-2	48" × 30"				1	
	SC-46	G66-21(CA)	30" × 30"		2-4" X 4"	1		RELOCATE
		G66-21A(CA)	18" × 18"					
		G86-7(CA) Mod	180" × 96"		2-SEE NOTE 2	1		RELOCATE LAMINATED WOOD POST (TYPE M)
		G95B(CA)	108" × 72"		2-6" X 6"	1		RELOCATE
		R86-2(CA)	30" × 60"		1-4" X 6"	2		
		W4-3R	48" × 48"		1-6" × 6"	1		RELOCATE
	SC-47	SEE NOTE 1						
	SC-48	SR50-2(CA)	30" × 66"		1-4" X 6"	1		RELOCATE
		R93-2(CA)	30" × 72"		1-6" × 6"	1		RELOCATE
		R93A(CA)	30" × 12"					
		W4-7L	48" × 48"		1-6" × 6"	1		RELOCATE
	SC-49	C30A(CA)	48" × 48"		1-6" × 6"	2		"1/2 MILE"
		W7-3A	24" × 18"					
		R93-2(CA)	30" × 72"		1-6" × 6"	1		"2"
		R93A(CA)	30" × 12"					
		SR50-2(CA)	30" × 66"		1-4" X 6"	1		"341"
		W4-3R	48" × 48"		1-6" × 6"	1		RELOCATE
		W24-1R	48" × 48"		1-6" × 6"	2		
	SC-50	SEE NOTE 1						
	SC-51	C30A(CA)	30" × 30"			1		"3/4 MILE" MOUNTED ON BARRIER
		W7-3A	24" × 18"					
		G84-2(CA)	54" × 48"		1-6" × 6"	1		"24"
		G85-3(CA)	174" × 114"		2-SEE NOTE 2	1		LAMINATED WOOD POST (TYPE M)
		G85-6(CA)	198" × 80"		2-SEE NOTE 2	1		LAMINATED WOOD POST (TYPE M)
		W1-4R	48" × 48"		1-6" × 6"	2		
	SC-52	SEE NOTE 1						
	SC-53	C30A(CA)	48" × 48"		1-6" × 6"	1		"800 FT"
		W7-3A	24" × 18"					
		C30A(CA)	48" × 48"		1-6" × 6"	1		"1/4 MILE"
		W7-3A	24" × 18"					
		W4-18L(CA)	48" × 48"		1-6" × 6"	2		"40"
	SC-54	G84-2(CA)	54" × 48"		1-6" × 6"	1		"1C"
		G85-6(CA)	198" × 80"		2-SEE NOTE 2	1		LAMINATED WOOD POST (TYPE M)
		G86-7(CA) Mod	306" × 96"		2-SEE NOTE 2	2		LAMINATED WOOD POST (TYPE L)
		W4-3R	48" × 48"		1-6" × 6"	1		RELOCATE
	SC-55	SEE NOTE 1						
	SC-56	W1-4R	30" × 30"			1		MOUNTED ON BARRIER
		W1-4R	48" × 48"		1-6" × 6"	1		RELOCATE
		W1-4R	48" × 48"		1-6" × 6"	1		
		W4-3R	48" × 48"		1-6" × 6"	1		
	SC-57	R6-4(CA)	48" × 60"		1-6" × 6"	1		
	SC-58	C30A(CA)	48" × 48"		1-6" × 6"	2		"1 MILE"
		W7-3A	24" × 18"					
		W1-4L	48" × 48"		1-6" × 6"	1		
						SUBTOTAL	1	

CONSTRUCTION AREA SIGNS 1B.1, 1B.2, 1B.3, 1B.4 AND 1B.5

STAGE	SHEET No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS: TEMPORARY OVERLAY SIZE	CONSTRUCTION AREA SIGNS: No. OF POSTS AND SIZE	CONSTRUCTION AREA SIGNS: No. OF SIGNS EA	SIGNS MOUNTED ON TYPE III BARRICADE: TYPE III BARRICADE EA	REMARKS
1B.1	SC-59	SEE NOTE 1						
1B.2	SC-60	G86-7(CA) Mod	180" × 96"		2-SEE NOTE 2	1		RELOCATE LAMINATED WOOD POST (TYPE M)
	SC-61	W4-7L	48" × 48"		1-6" × 6"	1		RELOCATE
	SC-62	SEE NOTE 1						
	SC-63	G84-2(CA)	54" × 48"		1-6" × 6"	1		RELOCATE
		G85-3(CA) Mod	174" × 114"		2-SEE NOTE 2	1		RELOCATE LAMINATED WOOD POST (TYPE M)
	SC-64	G85-6(CA)	198" × 80"		2-SEE NOTE 2	1		RELOCATE LAMINATED WOOD POST (TYPE M)
		G85-3(CA) Mod	198" × 80"		2-SEE NOTE 2	1		RELOCATE LAMINATED WOOD POST (TYPE M)
		W1-4R	48" × 48"		1-6" × 6"	2		RELOCATE
	SC-65	SEE NOTE 1						
	SC-66	SEE NOTE 1						
	SC-67	SEE NOTE 1						
	SC-68	G84-2(CA)	54" × 48"		1-6" × 6"	1		RELOCATE
		G85-6(CA)	198" × 80"		2-SEE NOTE 2	1		RELOCATE LAMINATED WOOD POST (TYPE M)
1B.3	SC-69	C30A(CA)	48" × 48"		1-6" × 6"	1		"1/4 MILE"
		W7-3A	24" × 18"					
	SC-70	SEE NOTE 1						
	SC-71	G86-7(CA) Mod	180" × 96"		2-SEE NOTE 2	1		RELOCATE LAMINATED WOOD POST (TYPE M)
	SC-72	SEE NOTE 1						
1B.4	SC-73	C30A(CA)	48" × 48"		1-6" × 6"	1		"1/4 MILE"
		W7-3A	24" × 18"					
	SC-74	SEE NOTE 1						
	SC-75	SEE NOTE 1						
1B.5	SC-76	SEE NOTE 1						
						SUBTOTAL		
						SHEET TOTAL	1	

STAGE CONSTRUCTION QUANTITIES
SCQ-22

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION DATE PLOTTED => FEB-2010
TIME PLOTTED => 7:32
08-10-09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmikesl
DGN FILE => c07163mc022.dgn
CU 12235
EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	893	1929

REGISTERED CIVIL ENGINEER — DATE 12/22/09

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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550 S. MAIN STREET
ORANGE, CA 92863-1584

CONSTRUCTION AREA SIGNS 2A

STAGE	SHEET No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS			SIGNS MOUNTED ON TYPE III BARRICADE	REMARKS
				TEMPORARY OVERLAY SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	TYPE III BARRICADE	
						EA	EA	
2A	SC-77	R3-8A Mod	48" x 30"		2-4" X 6"	3		
		W1-4L	36" x 36"		1-4" X 6"	1		
		R26(S)(CA)	12" x 18"					
		W11-1	36" x 36"		1-6" x 6"	2		
		M4-8	24" x 12"					
		W16-1	24" x 30"					
	SC-78	SEE NOTE 1						
	SC-79	C30A(CA)	48" x 48"		1-6" x 6"	1		"1/4 MILE"
		W7-3A	24" x 18"					
	SC-80	G86-5(CA)	204" x 108"		2-SEE NOTE 2	1		LAMINATED WOOD POST (TYPE M)
		W4-7L	48" x 48"					
		R18A(CA)	66" x 48"		1-6" x 6"	1		
		W4-3R	48" x 48"		1-6" x 6"	1		
	SC-81	G66-21(CA)	30" x 30"		1-4" X 4"	1		RELOCATE
		G66-21A(CA)	18" x 18"					
		G95B(CA)	108" x 72"		1-6" x 6"	1		RELOCATE
		R86-2(CA)	30" x 60"		1-4" X 6"	1		RELOCATE
		R93-2(CA)	30" x 72"		1-6" x 6"	1		"2"
		R93A(CA)	30" x 12"					
	SC-82	C30A(CA)	48" x 48"		1-6" x 6"	1		"1/4 MILE"
		W7-3A	24" x 18"					
		C30A(CA)	30" x 30"			1		"1/2 MILE" MOUNTED ON BARRIER
		W7-3A	24" x 18"					
		R93-2(CA)	30" x 72"		1-6" x 6"	1		RELOCATE
		R93A(CA)	30" x 12"					
		SR50-2(CA)	30" x 66"			1		RELOCATE MOUNTED ON BARRIER
		W4-7L	48" x 48"		1-6" x 6"	1		RELOCATE
	SC-83	R93-2(CA)	30" x 72"			1		RELOCATE MOUNTED ON BARRIER
		R93A(CA)	30" x 12"					
		SR50-2(CA)	30" x 66"		1-4" X 6"	1		RELOCATE
		W4-3R	48" x 48"		1-6" x 6"	1		RELOCATE
					SUBTOTAL			

CONSTRUCTION AREA SIGNS 2A

STAGE	SHEET No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS			SIGNS MOUNTED ON TYPE III BARRICADE	REMARKS
				TEMPORARY OVERLAY SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	TYPE III BARRICADE	
						EA	EA	
2A	SC-84	C30A(CA)	48" x 48"		1-6" x 6"	1		"1/4 MILE"
		W7-3A	24" x 18"					
		G84-2(CA)	54" x 48"		1-6" x 6"	1		RELOCATED
		G85-3(CA) Mod	174" x 114"		2-SEE NOTE 2	1		LAMINATED WOOD POST (TYPE M)
		R86-2(CA)	30" x 60"		1-4" X 6"	1		
		R93-2(CA)	30" x 72"		1-6" x 6"	1		"2" BARRIER MOUNTED
		R93A(CA)	30" x 12"					
	SC-85	C30A(CA)	48" x 48"		1-6" x 6"	1		RELOCATE
		W7-3A	24" x 18"					
	SC-86	G84-2(CA)	54" x 48"		1-6" x 6"	1		RELOCATE
		G85-6(CA)	198" x 80"		2-SEE NOTE 2	1		RELOCATE LAMINATED WOOD POST (TYPE M)
		W4-3R	48" x 48"		1-6" x 6"	2		RELOCATE
	SC-87	SEE NOTE 1						
	SC-88	SEE NOTE 1						
	SC-89	SEE NOTE 1						
	SC-90	W4-2R	36" x 36"		1-4" X 6"	1		
	SC-91	C30A(CA)	48" x 48"		1-6" x 6"	1		"1/4 MILE"
		W7-3A	24" x 18"					
		R1-2	48" x 48"		1-4" X 6"	1		
		R81-2(CA)	24" x 18"		1-4" X 6"	1		RELOCATE
		R81B-1(CA)	8" x 5"					
		R6-1L	36" x 12"					
		R5-1	36" x 36"		1-6" x 6"	1		
		R5-1A	36" x 24"					
		R6-1L	36" x 12"		1-4" X 6"	1		
		W1-4R	36" x 36"		1-4" X 6"	1		
		W11-8	36" x 36"		1-4" X 6"	1		
		W11-1	36" x 36"		1-6" x 6"	1		
		M4-8	24" x 12"					
		W16-1	24" x 30"					
	SC-92	SEE NOTE 1						
					SUBTOTAL			
					SHEET TOTAL			

STAGE CONSTRUCTION QUANTITIES

SCQ-23

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY	CHECKED BY
KELSIE ANDERSON	JULIET SU

CONSULTANT FUNCTIONAL SUPERVISOR
LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 05:32
08-10-09

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmikesl
DGN FILE => c07163mc023.dgn

CU 12235

EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	894	1929

REGISTERED CIVIL ENGINEER — DATE 12/22/09

JULIET SU No. C56168 Exp.12/31/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-1-10
PLANS APPROVAL DATE

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550 S. MAIN STREET
ORANGE, CA 92863-1584

CONSTRUCTION AREA SIGNS 2B.1, 2B.2 AND 2B.3

STAGE	SHEET No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS			SIGNS MOUNTED ON TYPE III BARRICADE	REMARKS
				TEMPORARY OVERLAY SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	TYPE III BARRICADE	
						EA	EA	
2B.1	SC-93	W13-2	48" x 60"		1-6" x 6"	1		"35 MPH"
		W24-1R	48" x 48"		1-6" x 6"	1		
		W24-1R	30" x 30"			1		MOUNTED ON BARRIER
	SC-94	G66-21(CA)	30" x 30"		1-4" X 6"	1		
		G33-1(CA)	30" x 8"					
		G84-2(CA)	54" x 48"		1-6" x 6"	1		"22"
		G86-7(CA) Mod	222" x 96"		2-SEE NOTE 2	1		"1/4 MILE" LAMINATED WOOD POST (TYPE M)
		C30A(CA)	48" x 48"					
		W7-3A	24" x 18"					
		W1-2R	48" x 48"		2-4" X 6"	1		"35 MPH"
		W13-1	30" x 30"					
	SC-95	SEE NOTE 1						
	SC-96	C30A(CA)	48" x 48"		1-6" x 6"	1		RELOCATE
		W7-3A	24" x 18"					
		R5-1	36" x 36"		1-6" x 6"	1		
		R5-1A	36" x 24"					
		R6-1L	36" x 12"		1-4" X 6"	1		
		R61-5(CA)	36" x 30"		1-4" X 6"	2		
		R61-5(CA)	36" x 30"			2		MOUNTED ON BARRIER
		W4-10R(CA)	48" x 48"		1-6" x 6"	1		"20"
		W4-1R	48" x 48"		1-6" x 6"	2		
		SR50-2(CA)	30" x 66"		1-4" X 6"	1		" $341"
	SC-97	SEE NOTE 1						
	SC-98	G84-2(CA)	54" x 48"		1-6" x 6"	1		"22"
		W4-7L	48" x 48"		1-6" x 6"	1		
	SC-99	C30A(CA)	48" x 48"		1-6" x 6"	1		"1/4 MILE"
		W7-3A	24" x 18"					
		W24-1R	30" x 30"			1		MOUNTED ON BARRIER
	SC-100	SEE NOTE 1						
	SC-101	SEE NOTE 1						
	SC-102	SEE NOTE 1						
	SC-103	W24-1L	48" x 48"		1-6" x 6"	2		
	SC-104	C30A(CA)	48" x 48"		1-6" x 6"	1		"1/4 MILE"
		W7-3A	24" x 18"					
	SC-105	SEE NOTE 1						
	SC-106	SEE NOTE 1						
	SC-107	C30A(CA)	48" x 48"			1		"1/4 MILE" MOUNTED ON PORTABLE SUPPORT
		W7-3A	24" x 18"					
		C30A(CA)	48" x 48"			1		"1/2 MILE" MOUNTED ON PORTABLE SUPPORT
		W7-3A	24" x 18"					
		W4-2R	36" x 36"			1		MOUNTED ON PORTABLE SUPPORT
2B.2	SC-108	W4-2R	48" x 48"		1-6" X 6"	1		RELOCATE
2B.3	SC-109	SEE NOTE 1						
	SC-110	W4-3R	48" x 48"		1-6" X 6"	1		
	SC-111	SEE NOTE 1						
	SC-112	SEE NOTE 1						
	SC-113	SEE NOTE 1						
	SC-114	SEE NOTE 1						
SHEET TOTAL								

STAGE CONSTRUCTION QUANTITIES

SCQ-24

CALCULATED-DESIGNED BY	KLA	REVISED BY	KELSIE ANDERSON
CHECKED BY	JULIET SU	DATE REVISED	12/22/09
CONSULTANT FUNCTIONAL SUPERVISOR	LEONARD SEQUEIRA		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 04-FEB-2010
08-10-09 TIME PLOTTED => 05:33

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmikesl DGN FILE => c07163mc024.dgn | CU 12235 | EA 071631

CONSTRUCTION AREA SIGNS 2C.1 AND 2C.2

STAGE	SHEET No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS			SIGNS MOUNTED ON TYPE III BARRICADE	REMARKS
				TEMPORARY OVERLAY SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	TYPE III BARRICADE	
						EA	EA	
2C.1	SC-115	G84-2(CA)	54" x 48"		1-6" x 6"	1		RELOCATE
		W13-2	48" x 60"		1-6" x 6"	1		RELOCATE
		W24-1R	30" x 30"			1		RELOCATE MOUNTED ON BARRIER
		W24-1R	48" x 48"		1-6" x 6"	1		RELOCATE
	SC-116	W1-2R	48" x 48"		2-4" X 6"	1		RELOCATE
		W13-1	30" x 30"					
		W4-1R	48" x 48"		1-6" x 6"	1		RELOCATE
	SC-117	G86-7(CA) Mod	222" x 96"		2-SEE NOTE 2	1		RELOCATE LAMINATED WOOD POST (TYPE M)
		R61-5(CA)	36" x 30"		1-4" X 6"	4		RELOCATE
	SC-118	SEE NOTE 1						
	SC-119	SEE NOTE 1						
	SC-120	R93-2(CA)	30" x 72"			1		RELOCATE MOUNTED ON BARRIER
		R93A(CA)	30" x 12"					
		W4-7L	48" x 48"		1-6" x 6"	1		
		W24-1R	30" x 30"			1		RELOCATE MOUNTED ON BARRIER
		W24-1R	48" x 48"		1-6" x 6"	1		
	SC-121	R86-2(CA)	30" x 60"		1-4" X 6"	1		RELOCATE
	SC-122	SR50-2(CA)	30" x 66"		1-4" X 6"	1		RELOCATE
	SC-123	R93-2(CA)	30" x 72"		1-6" x 6"	1		RELOCATE
		R93A(CA)	30" x 12"					
	SC-124	C30A(CA)	48" x 48"		1-6" x 6"	1		"1/4 MILE"
		W7-3A	24" x 18"					
		R86-2(CA)	30" x 60"		1-4" X 6"	1		
		R93-2(CA)	30" x 72"		1-6" x 6"	1		RELOCATE
		R93A(CA)	30" x 12"					
		SR50-2(CA)	30" x 66"		1-4" X 6"	1		"$341"
	SC-125	C30A(CA)	48" x 48"		1-6" x 6"	1		"1000 FT"
		W7-3A	24" x 18"					
		C30A(CA)	30" x 30"			1		"1 MILE" MOUNTED ON BARRIER
		W7-3A	24" x 18"					
	SC-126	SEE NOTE 1						
	SC-127	SEE NOTE 1						
	SC-128	C30A(CA)	48" x 48"		1-6" x 6"	1		"1/2 MILE"
		W7-3A	24" x 18"					
	SC-129	C30A(CA)	48" x 48"			1		RELOCATE MOUNTED ON PORTABLE SUPPORT
		W7-3A	24" x 18"					
		G78(CA)	72" x 120"		2-6" x 8"	1		RELOCATE Exist SIGN
	SC-130	R81-2(CA)	24" x 18"		1-4" X 6"	1		
		R81B-1(CA)	8" x 5"					
		W11-1	36" x 36"		1-6" x 6"	1		
		M4-8	24" x 12"					
		W16-1	24" x 30"					
2C.2	SC-131	SEE NOTE 1						
	SC-132	W4-1R	48" x 48"		1-6" x 6"	1		RELOCATE
	SC-133	SEE NOTE 1						
SHEET TOTAL								

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	895	1929

REGISTERED CIVIL ENGINEER — DATE 12/22/09

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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ORANGE, CA 92863-1584

STAGE CONSTRUCTION QUANTITIES

SCQ-25

REVISED BY: KLA — DATE REVISED: 12/22/09
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION — DATE PLOTTED => 04-FEB-2010 — TIME PLOTTED => 08-10-09 05:33

BORDER LAST REVISED 8/1/2008 — RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 — USERNAME => trmikesl — DGN FILE => c07163mc025.dgn — CU 12235 — EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	896	1929

REGISTERED CIVIL ENGINEER 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JULIET SU No. C56168 Exp. 12/31/10 CIVIL STATE OF CALIFORNIA

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550 S. MAIN STREET
ORANGE, CA 92863-1584

CONSTRUCTION AREA SIGNS 2D.1 AND 2D.2

STAGE	SHEET No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS: TEMPORARY OVERLAY SIZE	CONSTRUCTION AREA SIGNS: No. OF POSTS AND SIZE	CONSTRUCTION AREA SIGNS: No. OF SIGNS EA	SIGNS MOUNTED ON TYPE III BARRICADE: TYPE III BARRICADE EA	REMARKS
2D.1	SC-134	W13-2	48" x 60"		1-6" x 6"	1		"30 MPH"
		W24-1R	30" x 30"			1		RELOCATE MOUNTED ON BARRIER
		W24-1R	48" x 48"		1-6" x 6"	1		RELOCATE
	SC-135	C30A(CA)	48" x 48"		1-6" x 6"	1		"1/4 MILE"
		W7-3A	24" x 18"					
		G84-2(CA)	54" x 48"		1-6" x 6"	1		RELOCATE
		W1-2R	48" x 48"		2-4" X 6"	1		"30 MPH"
		W13-1	30" x 30"					
	SC-136	R61-5(CA)	36" x 30"		1-4" X 6"	2		RELOCATE
		R61-5(CA)	36" x 30"			2		RELOCATE MOUNTED ON BARRIER
		W1-4L	36" x 36"		1-6" x 6"	1		RELOCATE
	SC-137	SEE NOTE 1						
	SC-138	SEE NOTE 1						
	SC-139	SEE NOTE 1						
	SC-140	SEE NOTE 1						
	SC-141	SEE NOTE 1						
	SC-142	SEE NOTE 1						
	SC-143	SEE NOTE 1						
	SC-144	SEE NOTE 1						
	SC-145	W11-8	36" x 36"		1-4" X 6"	1		RELOCATE
		W1-4R	36" x 36"		1-6" x 6"	1		RELOCATE
	SC-146	SEE NOTE 1						
2D.2	SC-147	M5-1		21" x 15"		1		
		G78-4(CA)	84" x 48"		2-4" X 6"	1		RELOCATE Exist SIGN
		G78-4(CA) Mod	120" x 120"		2-SEE NOTE 2	1		RELOCATE Exist SIGN LAMINATED WOOD POST
	SC-148	SEE NOTE 1						
						SHEET TOTAL		

STAGE CONSTRUCTION QUANTITIES

SCQ-26

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION 08-10-09
DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 05:33

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	897	1929

REGISTERED CIVIL ENGINEER — DATE 12/22/09

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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CONSTRUCTION AREA SIGNS 3A.1

STAGE	SHEET No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS			SIGNS MOUNTED ON TYPE III BARRICADE	REMARKS
				TEMPORARY OVERLAY SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	TYPE III BARRICADE	
						EA	EA	
3A.1	SC-149	SEE NOTE 1						
	SC-150	W24-1R	48" × 48"		1-6" × 6"	1		RELOCATE
		W24-1R	30" × 30"		1-4" × 6"	1		RELOCATE
	SC-151	C30A(CA)	48" × 48"		1-6" × 6"	1		RELOCATE
		W7-3A	24" × 18"					
		G84-2(CA)	54" × 48"		1-6" × 6"	1		RELOCATE
		R86-2(CA)	30" × 60"		1-4" X 6"	2		
		W1-2R	48" × 48"		2-4" X 6"	1		RELOCATE
		W13-1	30" × 30"					
		W13-2	48" × 60"		1-6" × 6"	1		RELOCATE
	SC-152	G20-5(CA)	48" × 60"		2-4" X 6"	1		
		G92(CA)	48" × 30"		1-6" × 6"	1		"405"
		G27-2(CA)	30" × 25"					
		M3-1	24" × 12"					
		M6-2	21" × 15"					
		M3-1	24" × 12"		1-6" × 6"	1		"405" "22"
		G27-2(CA)	30" × 25"					
		M3-4	24" × 12"					
		G28-2(CA)	30" × 31"					
		M6-1	21" × 15"					
		R61-17(CA) Mod	64" × 30"		2-4" X 6"	3		
		W1-4L	36" × 36"		1-6" × 6"	1		
		W4-1R	48" × 48"		1-6" × 6"	1		RELOCATE
		W11-1	36" × 36"		1-6" × 6"	4		RELOCATE
		M4-8	24" × 12"					
		W16-1	24" × 30"					
	SC-153	SEE NOTE 1						
	SC-154	C30A(CA)	30" × 30"			1		RELOCATE MOUNTED ON BARRIER
		W7-3A	24" × 18"					
		G84-2(CA)	54" × 48"		1-6" × 6"	1		RELOCATE
		R18A(CA)	66" × 48"		1-6" × 6"	1		RELOCATE
		W13-2	48" × 60"		1-6" × 6"	1		"20 MPH"
	SC-155	C30A(CA)	48" × 48"		1-6" × 6"	1		RELOCATE
		W7-3A	24" × 18"					
SUBTOTAL								

CONSTRUCTION AREA SIGNS 3A.1 AND 3A.2

STAGE	SHEET No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS			SIGNS MOUNTED ON TYPE III BARRICADE	REMARKS
				TEMPORARY OVERLAY SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	TYPE III BARRICADE	
						EA	EA	
3A.1	SC-156	SEE NOTE 1						
	SC-157	SEE NOTE 1						
	SC-158	C30A(CA)	48" × 48"		1-6" × 6"	1		RELOCATE
		W7-3A	24" × 18"					
		M1-1 Mod		50" × 40"		1		"405"
		M1-1 Mod		50" × 40"		1		"605"
		W1-4R	48" × 48"		1-6" × 6"	2		2 EA
		W61B(CA)		44" × 20"		2		
	SC-159	G86-7(CA) Mod	258" × 96"		2-SEE NOTE 2	2		LAMINATED WOOD POST (TYPE M)
	SC-160	C30A(CA)	48" × 48"		1-6" × 6"	1		"1/4 MILE"
		W7-3A	24" × 18"					
		G85-3(CA) Mod	84" × 114"		2-SEE NOTE 2	1		LAMINATED WOOD POST (TYPE M)
		W1-2L	48" × 48"		2-4" X 6"	1		"40 MPH"
		W13-1	30" × 30"					
		W4-3L	48" × 48"		1-6" × 6"	1		
	SC-161	W4-3R	48" × 48"		1-6" × 6"	1		RELOCATE
		R82-1(CA)	30" × 60"		1-4" X 6"	1		RELOCATE
	SC-162	SR50-2(CA)	30" × 66"		1-4" X 6"	1		RELOCATE
	SC-163	R93-2(CA)	30" × 72"		1-6" × 6"	1		RELOCATE
		R93A(CA)	30" × 12"					
	SC-164	C30A(CA)	48" × 48"			1		RELOCATE MOUNTED ON PORTABLE SUPPORT
		W7-3A	24" × 18"					
		R5-1	36" × 36"		1-6" × 6"	1		RELOCATE
		R5-1A	36" × 24"					
		R6-1L	36" × 12"		1-4" X 6"	1		RELOCATE
		W4-2R	36" × 36"		1-6" × 6"	1		
	SC-165	SEE NOTE 1						
3A.2	SC-166	W13-2	48" × 60"		1-6" × 6"	1		RELOCATE
	SC-167	R18A(CA)	66" × 48"		1-6" × 6"	1		RELOCATE
SUBTOTAL								
SHEET TOTAL								

STAGE CONSTRUCTION QUANTITIES

SCQ-27

REVISED BY	KLA		
DATE REVISED	12/22/09		
CALCULATED-DESIGNED BY	KELSIE ANDERSON		
CHECKED BY	JULIET SU		
CONSULTANT FUNCTIONAL SUPERVISOR	LEONARD SEQUEIRA		
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	Caltrans		

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BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmikesl DGN FILE => c07163mc027.dgn | CU 12235 | EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	898	1929

REGISTERED CIVIL ENGINEER 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JULIET SU No. C56168 Exp. 12/31/10 CIVIL STATE OF CALIFORNIA

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550 S. MAIN STREET
ORANGE, CA 92863-1584

CONSTRUCTION AREA SIGNS 3B

STAGE	SHEET No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS: TEMPORARY OVERLAY SIZE	CONSTRUCTION AREA SIGNS: No. OF POSTS AND SIZE	CONSTRUCTION AREA SIGNS: No. OF SIGNS EA	SIGNS MOUNTED ON TYPE III BARRICADE: TYPE III BARRICADE EA	REMARKS
3B	SC-168	G84-2(CA)	54" x 48"		1-6" x 6"	1		RELOCATE
		W1-2R	48" x 48"		2-4" X 6"	1		RELOCATE
		W13-1	30" x 30"					
		W13-2	48" x 60"		1-6" x 6"	1		RELOCATE
		W24-1R	30" x 30"		1-4" X 6"	1		
		W24-1R	48" x 48"		1-6" x 6"	1		RELOCATE
	SC-169	M5-1		21" x 15"	2-SEE NOTE 2	1		RELOCATE LAMINATED WOOD POST (TYPE M)
		G78-4(CA) Mod	84" x 48"					
		R81-2(CA)	24" x 18"		1-4" X 6"	1		RELOCATE
		R81B-1(CA)	8" x 5"					
		W1-2R	48" x 48"		2-4" X 6"	1		"20 MPH"
		W13-1	30" x 30"					
		W11-1	36" x 36"		1-6" x 6"	1		RELOCATE
		M4-8	24" x 12"					
		W16-1	24" x 30"					
		SR50-2(CA)	30" x 66"		1-4" X 6"	1		RELOCATE
	SC-170	SEE NOTE 1						
	SC-171	G84-2(CA)	54" x 48"		1-6" x 6"	1		RELOCATE
		W13-2	48" x 60"		1-6" x 6"	1		RELOCATE
	SC-172	C30A(CA)	30" x 30"			1		RELOCATE MOUNTED ON BARRIER
		W7-3A	24" x 18"					
		R18A(CA)	66" x 48"		1-6" x 6"	1		RELOCATE
	SC-173	SEE NOTE 1						
	SC-174	SEE NOTE 1						
	SC-175	SEE NOTE 1						
	SC-176	R93-2(CA)	30" x 72"			1		RELOCATE MOUNTED ON BARRIER
		R93A(CA)	30" x 12"					
	SC-177	C30A(CA)	48" x 48"		1-6" x 6"	1		RELOCATE
		W7-3A	24" x 18"					
	SC-178	R5-1	36" x 36"		1-6" x 6"	1		RELOCATE
		R5-1A	36" x 24"					
		R6-1L	36" x 12"		1-4" X 6"	1		RELOCATE
		W4-2R	36" x 36"		1-6" x 6"	1		RELOCATE
					SHEET TOTAL			

STAGE CONSTRUCTION QUANTITIES

SCQ-28

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA
CALCULATED-DESIGNED BY: KELSIE ANDERSON
CHECKED BY: JULIET SU
REVISED BY: KLA
DATE REVISED: 12/22/09

LAST REVISION 08-10-09
DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 05:33

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	899	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JULIET SU No. C56168 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

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ORANGE, CA 92863-1584

CONSTRUCTION AREA SIGNS 3C AND 3D.1

STAGE	SHEET No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS: TEMPORARY OVERLAY SIZE	CONSTRUCTION AREA SIGNS: No. OF POSTS AND SIZE	CONSTRUCTION AREA SIGNS: No. OF SIGNS EA	SIGNS MOUNTED ON TYPE III BARRICADE: TYPE III BARRICADE EA	REMARKS
3C	SC-179	R86-2(CA)	30" x 60"		1-4" X 6"	1		RELOCATE
	SC-180	W1-2R	48" x 48"		2-4" X 6"	1		RELOCATE
		W13-1	30" x 30"					
	SC-181	G84-2(CA)	54" x 48"		1-6" x 6"	1		RELOCATE
		R18A(CA)	66" x 48"		1-6" x 6"	1		RELOCATE
		R86-2(CA)	30" x 60"		1-4" X 6"	1		
		W4-7L	48" x 48"		1-6" x 6"	1		RELOCATE
		W13-2	48" x 60"		1-6" x 6"	1		RELOCATE
	SC-182	C30A(CA)	48" x 48"		1-6" x 6"	1		RELOCATE
		W7-3A	24" x 18"					
		R93-2(CA)	30" x 72"		1-6" x 6"	1		RELOCATE
		R93A(CA)	30" x 12"					
		R93-2(CA)	30" x 72"		1-6" x 6"	1		"2"
		R93A(CA)	30" x 12"					
		SR50-2(CA)	30" x 66"		1-4" X 6"	1		"$341"
	SC-183	R86-2(CA)	30" x 60"		1-4" X 6"	1		RELOCATE
	SC-184	SEE NOTE 1						
	SC-185	SEE NOTE 1						
	SC-186	R93-2(CA)	30" x 72"		1-6" x 6"	1		RELOCATE
		R93A(CA)	30" x 12"					
	SC-187	C30A(CA)	30" x 30"			1		"1/2 MILE" MOUNTED ON BARRIER
		W7-3A	24" x 18"					
		C30A(CA)	48" x 48"		1-6" x 6"	1		RELOCATE
		W7-3A	24" x 18"					
	SC-188	SEE NOTE 1						
	SC-189	C30A(CA)	48" x 48"		1-6" x 6"	1		"1000 FT"
		W7-3A	24" x 18"					
		G85-6(CA)	198" x 80"		2-SEE NOTE 2	1		RELOCATE LAMINATED WOOD POST (TYPE M)
	SC-190	SEE NOTE 1						
	SC-191	SEE NOTE 1						
	SC-192	SEE NOTE 1						
	SC-193	SEE NOTE 1						
	SC-194	C30A(CA)	48" x 48"		1-6" x 6"	1		"1 MILE"
		W7-3A	24" x 18"					
	SC-195	R5-1	36" x 36"		1-6" x 6"	1		RELOCATE
		R5-1A	36" x 24"					
		R6-1L	36" x 12"		1-4" X 6"	1		RELOCATE
		W4-2R	36" x 36"		1-6" x 6"	1		RELOCATE
3D.1	SC-196	C30A(CA)	48" x 48"		1-6" x 6"	1		RELOCATE
		W7-3A	24" x 18"					
	SC-197	G78-4(CA) Mod	84" x 48"		2-SEE NOTE 2	1		RELOCATE LAMINATED WOOD POST (TYPE M)
			120" x 68"			1		BLANK PANEL
		R61-28(CA)	48" x 50"		2-4" X 6"	2		
		R73-6(CA)	36" x 36"		1-6" X 6"	1		
		SR50-2(CA)	30" x 66"			1		RELOCATE MOUNTED ON BARRIER
		W1-2R	48" x 48"		2-4" X 6"	1		RELOCATE
		W13-1	30" x 30"					
					SUBTOTAL			

CONSTRUCTION AREA SIGNS 3D.1 AND 3D.2

STAGE	SHEET No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS: TEMPORARY OVERLAY SIZE	CONSTRUCTION AREA SIGNS: No. OF POSTS AND SIZE	CONSTRUCTION AREA SIGNS: No. OF SIGNS EA	SIGNS MOUNTED ON TYPE III BARRICADE: TYPE III BARRICADE EA	REMARKS
3D.1	SC-198	SEE NOTE 1						
	SC-199	C30A(CA)	30" x 30"			1		"1 MILE" MOUNTED ON BARRIER
		W7-3A	24" x 18"					
		G66-56(CA)	30" x 30"		1-4" X 6"	1		
		G84-2(CA)	54" x 48"		1-6" x 6"	1		RELOCATE
		R18A(CA)	66" x 48"		1-6" x 6"	1		RELOCATE
		W13-2	48" x 60"		1-6" x 6"	1		RELOCATE
	SC-200	R93-2(CA)	30" x 72"		1-6" x 6"	1		"2"
		R93A(CA)	30" x 12"					
	SC-201	SEE NOTE 1						
3D.2	SC-202	W4-1R	48" x 48"		1-6" x 6"	1		RELOCATE
	SC-203	W1-2R	48" x 48"		2-4" x 6"	1		RELOCATE
		W13-1	30" x 30"					
	SC-204	G84-2(CA)	54" x 48"		1-6" x 6"	1		RELOCATE
		W13-2	48" x 60"		1-6" x 6"	1		RELOCATE
	SC-205	R18A(CA)	66" x 48"		1-6" x 6"			RELOCATE
					SUBTOTAL			
					SHEET TOTAL			

STAGE CONSTRUCTION QUANTITIES

SCQ-29

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED-DESIGNED BY	CHECKED BY
KELSIE ANDERSON	JULIET SU

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

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BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmikesl
DGN FILE => c07163mc029.dgn

CU 12235

EA 071631

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405, 605	R0.3/R0.9, 22.3/24.0,3.0/R1.6	900	1929

REGISTERED CIVIL ENGINEER — DATE 12/22/09

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JULIET SU
No. C56168
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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ORANGE, CA 92863-1584

CONSTRUCTION AREA SIGNS 3E

STAGE	SHEET No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS			SIGNS MOUNTED ON TYPE III BARRICADE	REMARKS
				TEMPORARY OVERLAY SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	TYPE III BARRICADE	
						EA	EA	
3E	SC-206	SEE NOTE 1						
	SC-207	SEE NOTE 1						
	SC-208	SEE NOTE 1						
	SC-209	SEE NOTE 1						
	SC-210	SEE NOTE 1						
	SC-211	C30A(CA)	48" x 48"		1-6" x 6"	1		"1/2 MILE"
		W7-3A	24" x 18"					
	SC-212	SEE NOTE 1						
	SC-213	C30A(CA)	48" x 48"		1-6" x 6"	1		RELOCATE
		W7-3A	24" x 18"					
		C30A(CA)	48" x 48"		1-6" x 6"	1		"1/4 MILE"
		W7-3A	24" x 18"					
		C30A(CA)	48" x 48"		1-6" x 6"	1		"1000 FT"
		W7-3A	24" x 18"					
	SC-214	W4-3R	48" x 48"		1-6" x 6"	1		
	SC-215	SEE NOTE 1						
	SC-216	SEE NOTE 1						
	SC-217	C30A(CA)	48" x 48"		1-6" x 6"	1		"1/2 MILE"
		W7-3A	24" x 18"					
	SC-218	C30A(CA)	48" x 48"		1-6" x 6"	1		"750 FT"
		W7-3A	24" x 18"					
		C30A(CA)	48" x 48"		1-6" x 6"	1		"800 FT"
		W7-3A	24" x 18"					
	SC-219	C30A(CA)	48" x 48"		1-6" x 6"	1		"500 FT"
		W7-3A	24" x 18"					
	SC-220	SEE NOTE 1						
						SUBTOTAL		
						SHEET TOTAL		
						GRAND TOTAL	9****	

**** FOR ADDITIONAL QUANTITIES OF TYPE III BARRICADE, SEE STAGE CONSTRUCTION QUANTITIES - TEMPORARY STAGE CONSTRUCTION QUANTITIES.

STAGE CONSTRUCTION QUANTITIES

SCQ-30

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
KELSIE ANDERSON	JULIET SU	KLA	12/22/09

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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EA 071631