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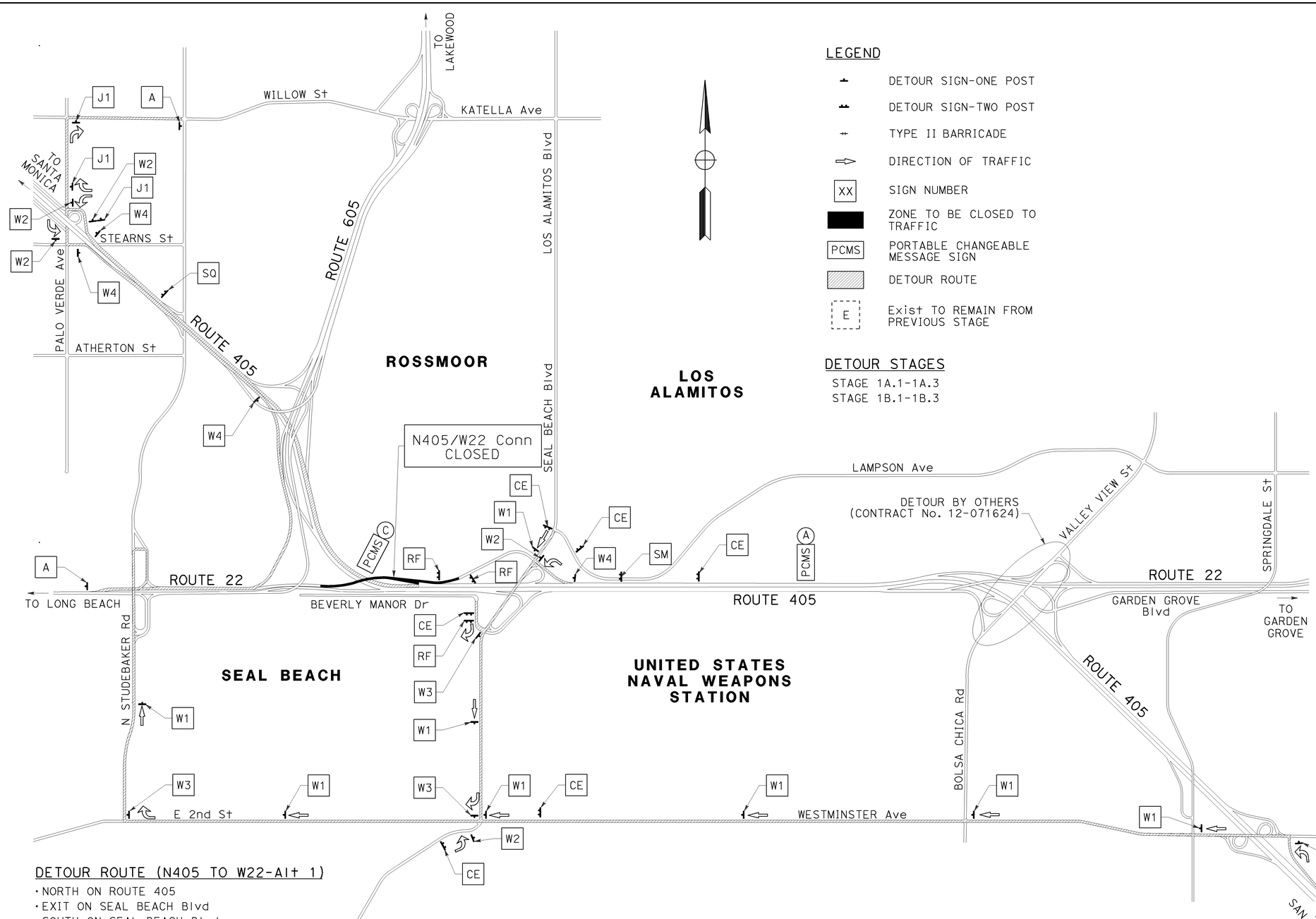
550 S. MAIN STREET
ORANGE, CA 92863-1584



LEGEND

- DETOUR SIGN-ONE POST
- DETOUR SIGN-TWO POST
- TYPE II BARRICADE
- DIRECTION OF TRAFFIC
- XX — SIGN NUMBER
- ZONE TO BE CLOSED TO TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- DETOUR ROUTE
- E — Exist TO REMAIN FROM PREVIOUS STAGE

DETOUR STAGES

STAGE 1A.1-1A.3
STAGE 1B.1-1B.3

NOTES:

1. LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. SIGNS SHALL BE LOCATED APPROXIMATELY 50 FEET AWAY FROM THE INTERSECTION.
3. REMOVE OR COVER ALL CONFLICTING SIGNING AS DIRECTED BY THE ENGINEER.
4. DETOUR SIGNS SHALL BE COVERED WHEN NOT IN USE.
5. FOR SIGN UNIT DETAILS, SEE THD SHEETS.
6. FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE STAGE CONSTRUCTION TRAFFIC HANDLING PLANS AND CONSTRUCTION AREA SIGN PLANS.
7. DURING THE NB ROUTE 405 TO WB ROUTE 22 CONNECTOR CLOSURE, THE PCMS MESSAGE AT (A) SHOULD READ:

1st FRAME	2nd FRAME
WB 22 RAMP CLOSED	USE SEAL BEACH EXIT

8. DURING THE NB ROUTE 405 TO WB ROUTE 22 CONNECTOR CLOSURE, THE PCMS MESSAGE AT (B) SHOULD READ:

1st FRAME	2nd FRAME
WB 22 RAMP CLOSED	USE WESTMINSTER EXIT

9. DURING THE NB ROUTE 405 TO WB ROUTE 22 CONNECTOR CLOSURE, THE PCMS MESSAGE AT (C) SHOULD READ:

1st FRAME	2nd FRAME
WB 22 RAMP CLOSED	USE PALO VERDE EXIT

DETOUR ROUTE (N405 TO W22-Alt 1)

- NORTH ON ROUTE 405
- EXIT ON SEAL BEACH Blvd
- SOUTH ON SEAL BEACH Blvd
- WEST ON WESTMINSTER Ave
- CONTINUE WEST ON E 2nd St
- NORTH ON N STUDEBAKER Rd
- WEST ON ROUTE 22

DETOUR ROUTE (N405 TO W22-Alt 2)

- NORTH ON ROUTE 405
- EXIT WESTMINSTER Blvd
- WEST ON WESTMINSTER Blvd
- CONTINUE WEST ON E 2nd St
- NORTH ON N STUDEBAKER Rd
- WEST ON ROUTE 22

DETOUR ROUTE (N405 TO W22-Alt 3)

- NORTH ON ROUTE 405
- EXIT PALO VERDE Ave
- SOUTH ON PALO VERDE Ave
- EAST ON STEARNS St
- SOUTH ON ROUTE 405
- WEST ON ROUTE 22

DETOUR ROUTE (SEAL BEACH TO W22)

- SOUTH ON SEAL BEACH Blvd
- WEST ON WESTMINSTER Ave
- CONTINUE WEST ON E 2nd St
- NORTH ON N STUDEBAKER Rd
- WEST ON ROUTE 22

TRAFFIC HANDLING PLAN
DETOUR LAYOUT
(7th St CONNECTOR AND NB OLD RANCH PARKWAY ON-RAMP CLOSURES)

NO SCALE

TH-1

THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY.

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 08-10-09 | DATE PLOTTED => 03-FEB-2010 | TIME PLOTTED => 14:02

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmariak | DGN FILE => c07163md001.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	902	1929

REGISTERED CIVIL ENGINEER — 8/10/09 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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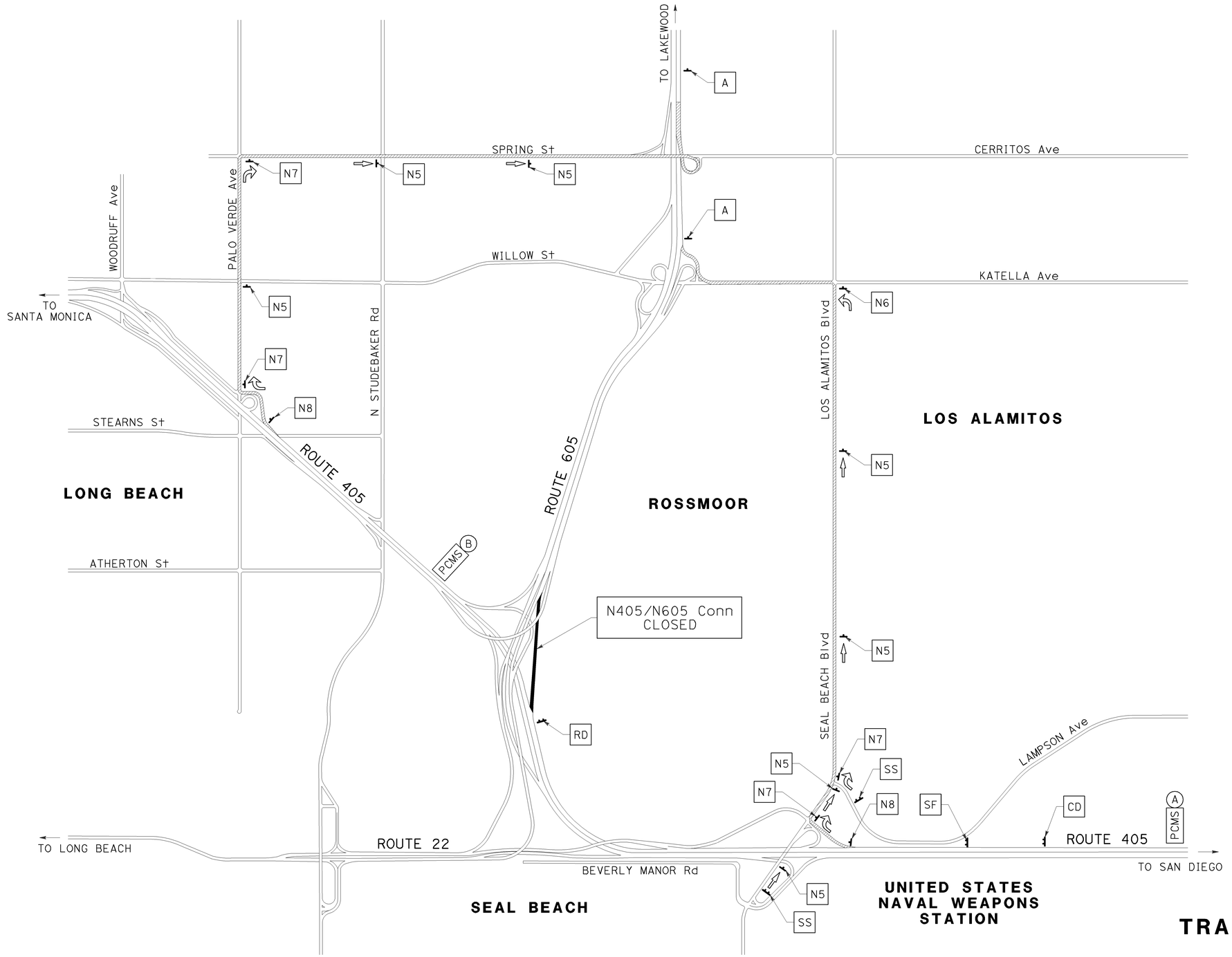

NOTES:

1. DURING THE NB ROUTE 405 TO NB ROUTE 605 CONNECTOR CLOSURE, THE PCMS MESSAGE AT (A) SHOULD READ:

1st FRAME	2nd FRAME
NB 605 RAMP CLOSED	USE SEAL BEACH EXIT

2. DURING THE NB ROUTE 405 TO NB ROUTE 605 CONNECTOR CLOSURE, THE PCMS MESSAGE AT (B) SHOULD READ:

1st FRAME	2nd FRAME
NB 605 DETOUR	USE PALO VERDE EXIT

DETOUR ROUTE (N405 TO N605-A1+1)

- NORTH ON ROUTE 405
- EXIT ON SEAL BEACH Blvd
- NORTH ON SEAL BEACH Blvd
- CONTINUE NORTH ON LOS ALAMITOS Blvd
- WEST ON KATELLA Ave
- NORTH ON ROUTE 605

DETOUR ROUTE (N405 TO N605-A1+2)

- NORTH ON ROUTE 405
- EXIT ON PALO VERDE Ave
- NORTH ON PALO VERDE Ave
- EAST ON SPRING St
- NORTH ON ROUTE 605

DETOUR STAGES

STAGE 1A.2
STAGE 1B.1
STAGE 1B.2
STAGE 1B.4
STAGE 2A
STAGE 2D.1
STAGE 3A.1
STAGE 3E

TRAFFIC HANDLING PLAN DETOUR LAYOUT

(NB ROUTE 405 TO NB ROUTE 605 CONNECTOR CLOSURE)

NO SCALE

TH-2

THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY.

REVISED BY	DATE REVISED
KLA	8/10/09

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

LAST REVISION DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 14:02

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmarlak
DGN FILE => c07163md002.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	903	1929

REGISTERED CIVIL ENGINEER — 8/10/09 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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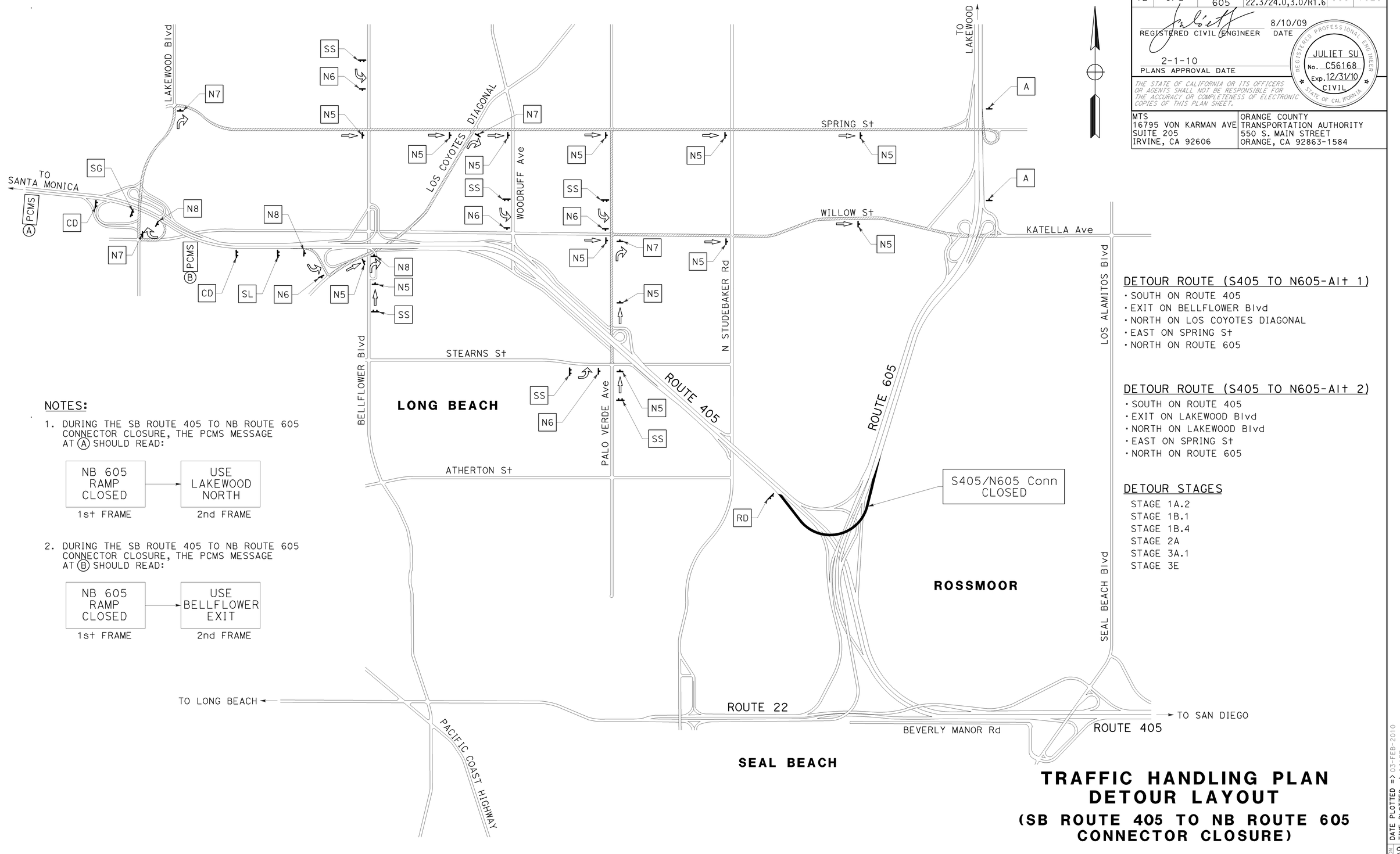
SUITE 205
IRVINE, CA 92606

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



NOTES:

1. DURING THE SB ROUTE 405 TO NB ROUTE 605 CONNECTOR CLOSURE, THE PCMS MESSAGE AT (A) SHOULD READ:

1st FRAME	2nd FRAME
NB 605 RAMP CLOSED	USE LAKEWOOD NORTH

2. DURING THE SB ROUTE 405 TO NB ROUTE 605 CONNECTOR CLOSURE, THE PCMS MESSAGE AT (B) SHOULD READ:

1st FRAME	2nd FRAME
NB 605 RAMP CLOSED	USE BELLFLOWER EXIT

DETOUR ROUTE (S405 TO N605-Alt 1)

- SOUTH ON ROUTE 405
- EXIT ON BELLFLOWER Blvd
- NORTH ON LOS COYOTES DIAGONAL
- EAST ON SPRING St
- NORTH ON ROUTE 605

DETOUR ROUTE (S405 TO N605-Alt 2)

- SOUTH ON ROUTE 405
- EXIT ON LAKEWOOD Blvd
- NORTH ON LAKEWOOD Blvd
- EAST ON SPRING St
- NORTH ON ROUTE 605

DETOUR STAGES

STAGE 1A.2
STAGE 1B.1
STAGE 1B.4
STAGE 2A
STAGE 3A.1
STAGE 3E

TRAFFIC HANDLING PLAN DETOUR LAYOUT

(SB ROUTE 405 TO NB ROUTE 605 CONNECTOR CLOSURE)

NO SCALE

TH-3

THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY.

REVISED BY	DATE REVISED
KLA	8/10/09

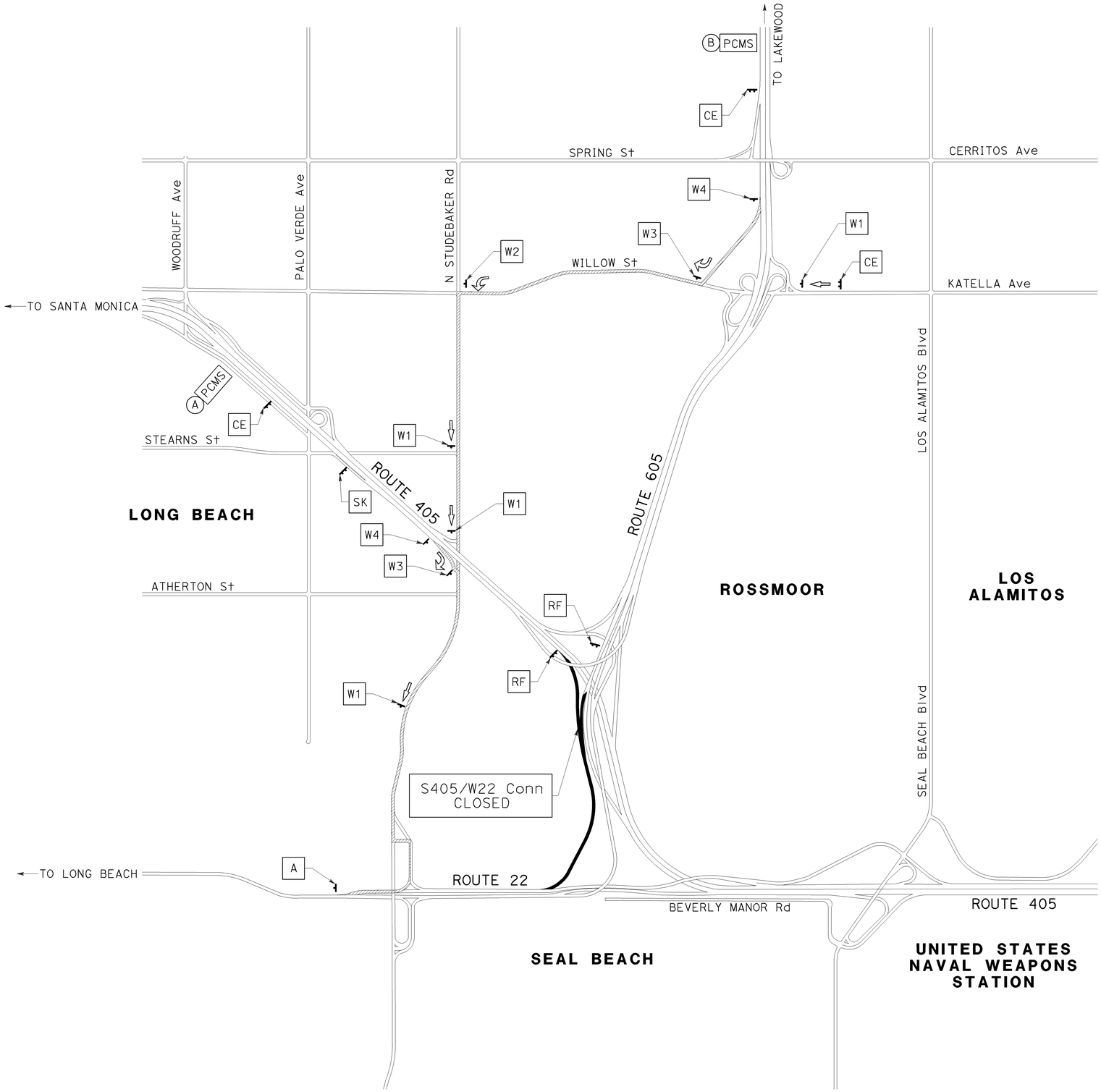
KELSIE ANDERSON — CALCULATED-DESIGNED BY
JULIET SU — CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION — DATE PLOTTED => 03-FEB-2010 — TIME PLOTTED => 14:02 — 08-10-09

BORDER LAST REVISED 8/1/2008 — RELATIVE BORDER SCALE IS IN INCHES (0 1 2 3) — USERNAME => trmariak — DGN FILE => c07163md003.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	904	1929

REGISTERED CIVIL ENGINEER — 8/10/09 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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MTS 16795 VON KARMAN AVE SUITE 205 IRVINE, CA 92606	ORANGE COUNTY TRANSPORTATION AUTHORITY 550 S. MAIN STREET ORANGE, CA 92863-1584

NOTES:

1. DURING THE SB ROUTE 405 TO WB ROUTE 22 CONNECTOR CLOSURE, THE PCMS MESSAGE AT (A) SHOULD READ:

1st FRAME	2nd FRAME
WB 22 RAMP CLOSED	USE STUDEBAKER EXIT

2. DURING THE SB ROUTE 605 TO WB ROUTE 22 CONNECTOR CLOSURE, THE PCMS MESSAGE AT (B) SHOULD READ:

1st FRAME	2nd FRAME
WB 22 RAMP CLOSED	USE WILLOW EXIT

DETOUR ROUTE (S405 TO W22)

- SOUTH ON ROUTE 405
- EXIT ON N STUDEBAKER Rd
- SOUTH ON N STUDEBAKER Rd
- WEST ON ROUTE 22

DETOUR ROUTE (S605 TO W22)

- SOUTH ON ROUTE 605
- EXIT ON WILLOW St
- WEST ON WILLOW St
- SOUTH ON N STUDEBAKER Rd
- WEST ON ROUTE 22

DETOUR STAGE

STAGE 1A.1
STAGE 1B.3
STAGE 2A

TRAFFIC HANDLING PLAN DETOUR LAYOUT

(SB ROUTE 405 AND SB ROUTE 605 TO WB ROUTE 22 CONNECTOR CLOSURE)

NO SCALE

TH-4

THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA	CALCULATED-DESIGNED BY: KELSIE ANDERSON	REVISED BY: KLA
Caltrans		CHECKED BY: JULIET SU	DATE REVISED: 8/10/09

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

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmariak DGN FILE => c07163md004.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	905	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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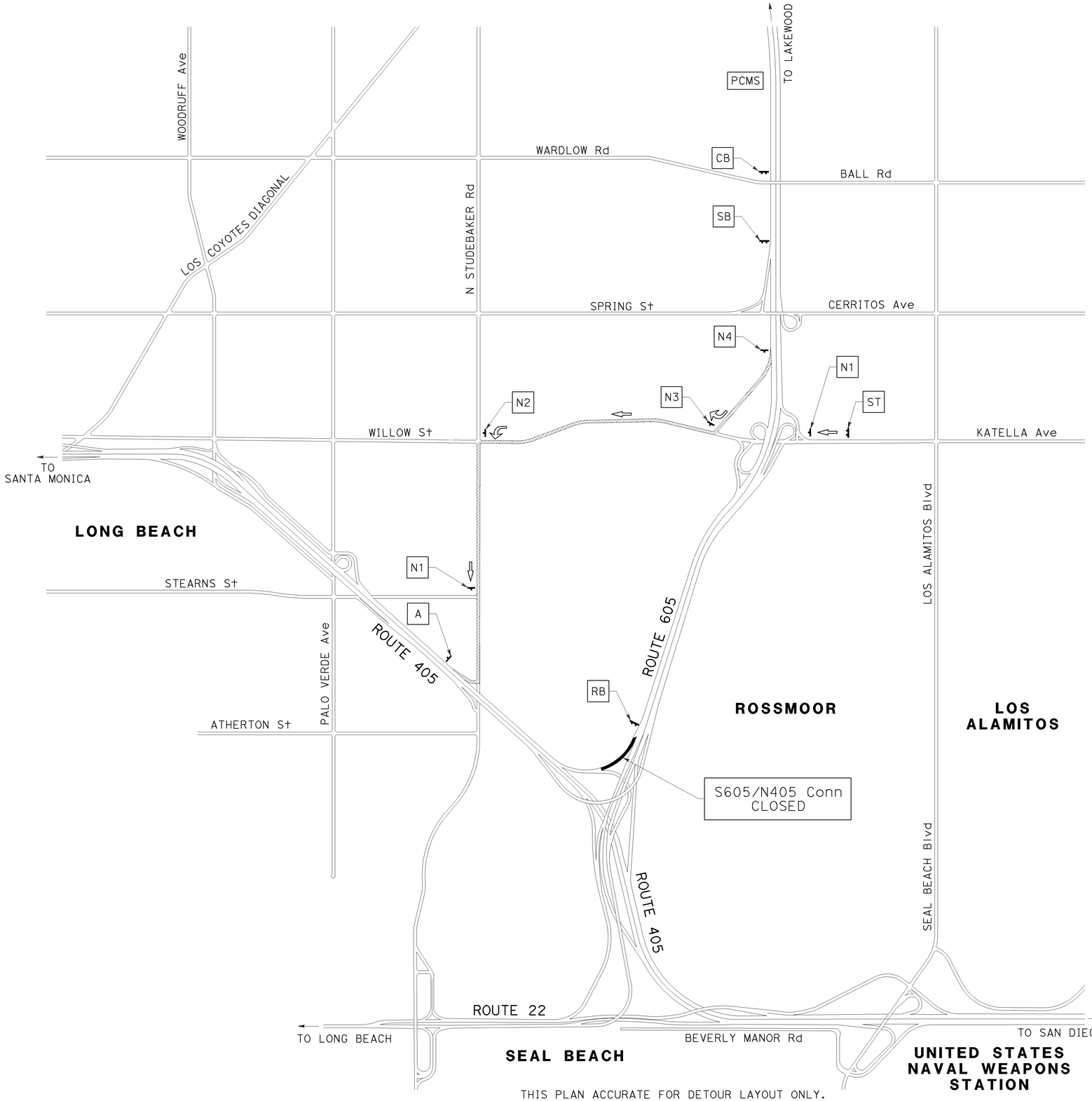

THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY.

NOTE:

1. DURING THE SB ROUTE 605 TO NB ROUTE 405 CONNECTOR CLOSURE, THE PCMS MESSAGE SHOULD READ:

1st FRAME	2nd FRAME
NB 405 RAMP CLOSED	USE WILLOW EXIT

DETOUR ROUTE (S605 TO N405)

- SOUTH ON ROUTE 605
- EXIT ON WILLOW St
- WEST ON WILLOW St
- SOUTH ON N STUDEBAKER Rd
- NORTH ON ROUTE 405

DETOUR STAGES

STAGE 1B.1
STAGE 1B.2
STAGE 2A

TRAFFIC HANDLING PLAN DETOUR LAYOUT

(SB ROUTE 605 TO NB ROUTE 405 CONNECTOR CLOSURE)

NO SCALE

TH-5

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

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08-10-09

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USERNAME => trmariak
DGN FILE => c07163md005.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	906	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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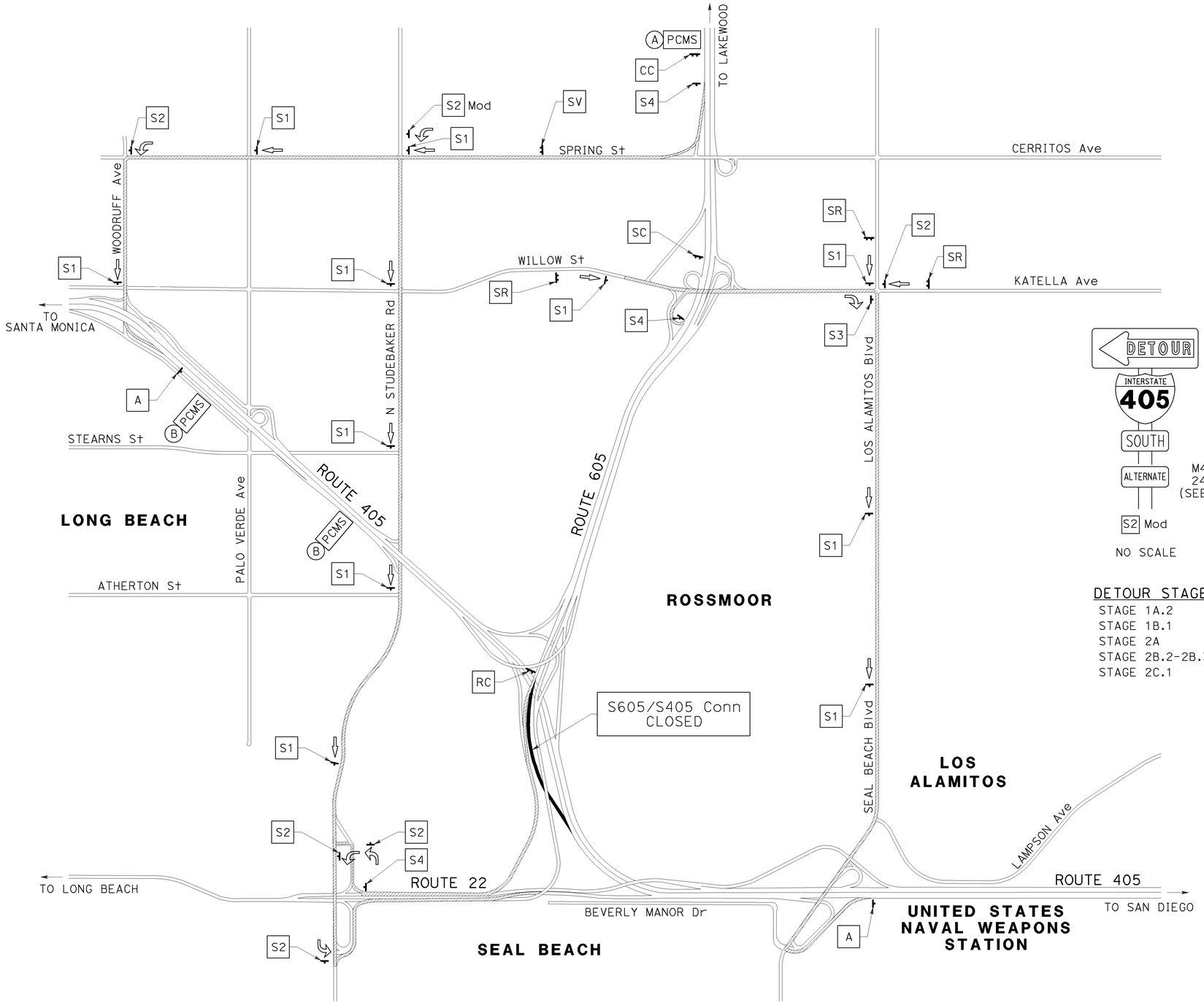

M4-1 Mod
24" X 12"
(SEE NOTE 3)

NO SCALE

DETOUR STAGES
- STAGE 1A.2
- STAGE 1B.1
- STAGE 2A
- STAGE 2B.2-2B.3
- STAGE 2C.1

NOTES:

1. DURING THE SB ROUTE 605 TO SB ROUTE 405 CONNECTOR CLOSURE, THE PCMS MESSAGE AT (A) SHOULD READ:

1st FRAME	2nd FRAME
SB 405 RAMP CLOSED	USE SPRING EXIT

2. DURING THE SB ROUTE 605 TO SB ROUTE 405 CONNECTOR CLOSURE, THE PCMS MESSAGE AT (B) SHOULD READ:

1st FRAME	2nd FRAME
EXPECT DELAYS	ALONG S405-W22 CONN

3. AS NOTED ON PLANS, SIGN SHALL HAVE A BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND.

DETOUR ROUTE (S605 TO S405-Alt1)
- SOUTH ON ROUTE 605
- EXIT ON KATELLA Ave
- EAST ON KATELLA Ave
- SOUTH ON LOS ALAMITOS Blvd
- CONTINUE SOUTH ON SEAL BEACH Blvd
- SOUTH ON ROUTE 405

DETOUR ROUTE (S605 TO S405-Alt2)
- SOUTH ON ROUTE 605
- EXIT ON SPRING St
- WEST ON SPRING St
- SOUTH ON WOODRUFF Ave
- SOUTH ON ROUTE 405

DETOUR ROUTE (S605 TO S405-Alt3)
- SOUTH ON ROUTE 605
- EXIT ON SPRING St
- WEST ON SPRING St
- SOUTH ON STUDEBAKER Rd
- EAST ON ROUTE 22
- SOUTH ON ROUTE 405

TRAFFIC HANDLING PLAN DETOUR LAYOUT
(SB ROUTE 605 TO SB ROUTE 405 CONNECTOR CLOSURE)

NO SCALE

TH-6

THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

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

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

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Caltrans

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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	907	1929

REGISTERED CIVIL ENGINEER — DATE 12/22/09

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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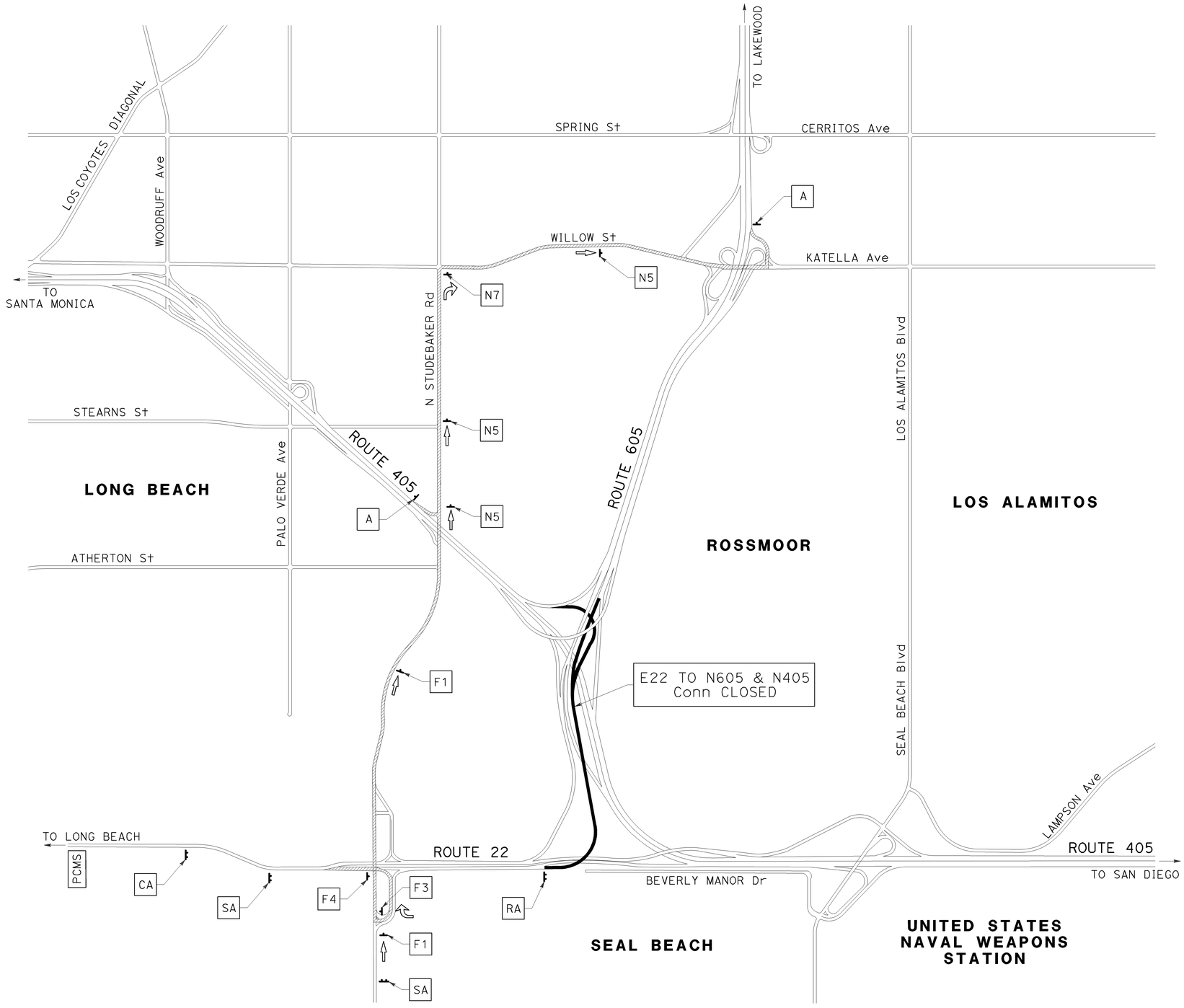
550 S. MAIN STREET
ORANGE, CA 92863-1584



NOTE:

1. DURING THE EB ROUTE 22 TO NB ROUTE 405 & NB ROUTE 605 CONNECTOR CLOSURES, THE PCMS MESSAGE SHOULD READ:

1st FRAME	2nd FRAME
N405 & N605 RAMPS CLOSED	USE STUDEBAKER EXIT

DETOUR ROUTE (E22 TO N405)

- EAST ON ROUTE 22
- EXIT ON N STUDEBAKER Rd
- NORTH ON N STUDEBAKER Rd
- NORTH ON ROUTE 405

DETOUR ROUTE (E22 TO N605)

- EAST ON ROUTE 22
- EXIT ON N STUDEBAKER Rd
- NORTH ON N STUDEBAKER Rd
- EAST ON WILLOW St
- NORTH ON ROUTE 605

DETOUR STAGES

STAGE 1B.1
STAGE 1B.2
STAGE 2A
STAGE 2C.1
STAGE 2D.1
STAGE 3A.1
STAGE 3C
STAGE 3E

TRAFFIC HANDLING PLAN DETOUR LAYOUT

(EB ROUTE 22 TO NB ROUTE 405 & NB ROUTE 605 CONNECTOR CLOSURES)

NO SCALE

TH-7

THIS PLAN ACCURATE FOR DETOUR LAYOUT 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 => 14:03
08-10-09

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USERNAME => trmarlak
DGN FILE => c07163md007.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	908	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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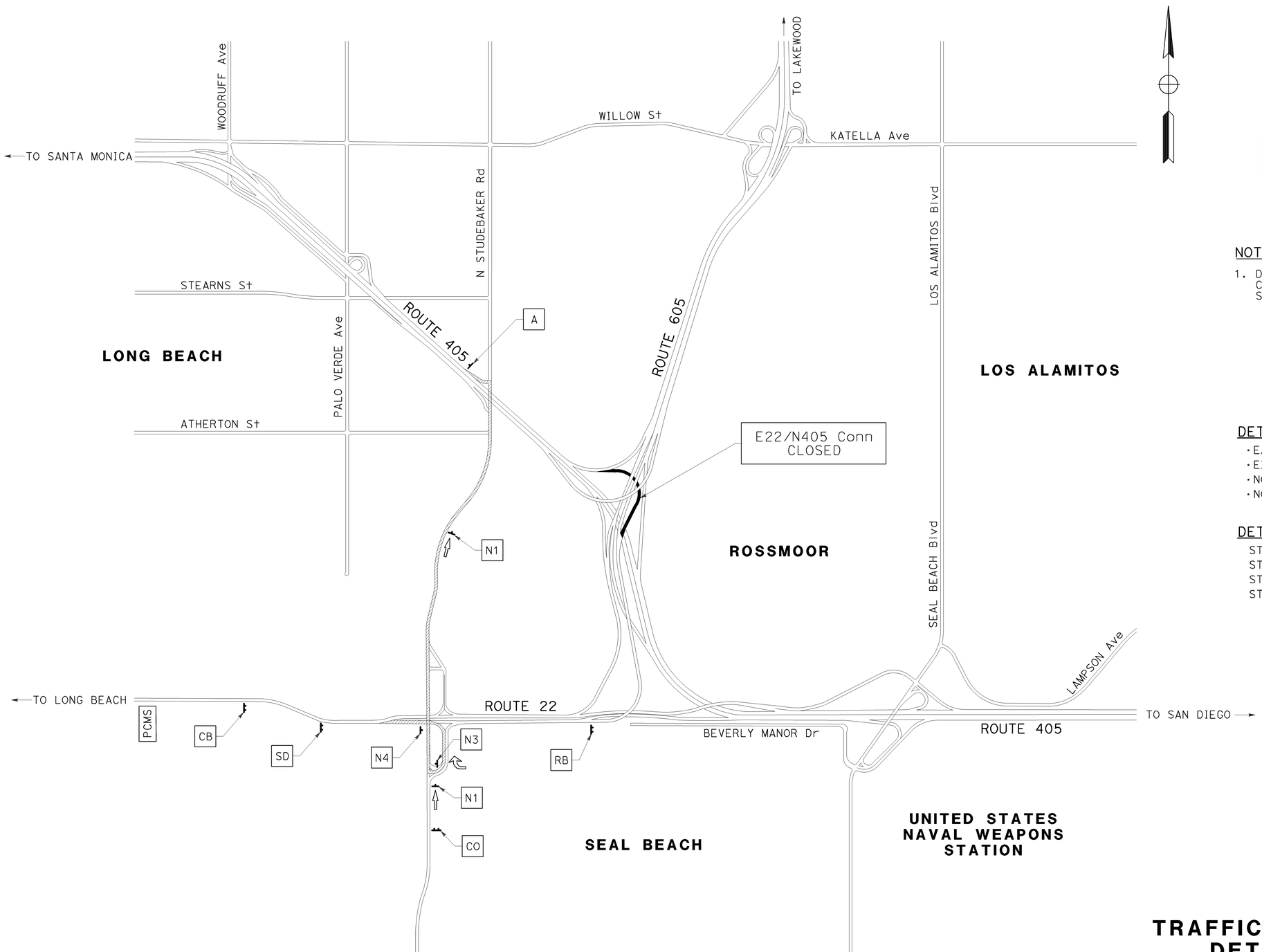
ORANGE, CA 92863-1584



NOTE:

1. DURING THE EB ROUTE 22 TO NB ROUTE 405 CONNECTOR CLOSURE, THE PCMS MESSAGE SHOULD READ:

1st FRAME	2nd FRAME
NB 405 RAMP CLOSED	USE STUDEBAKER EXIT

DETOUR ROUTE (E22 TO N405)

- EAST ON ROUTE 22
- EXIT ON N STUDEBAKER Rd
- NORTH ON N STUDEBAKER Rd
- NORTH ON ROUTE 405

DETOUR STAGES

STAGE 1B.2
STAGE 2A-2D.2
STAGE 3A.1
STAGE 3E

TRAFFIC HANDLING PLAN DETOUR LAYOUT

(EB ROUTE 22 TO NB ROUTE 405 CONNECTOR CLOSURE)

NO SCALE

TH-8

THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

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

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

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmariak
DGN FILE => c07163md008.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	909	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

NOTES:

1. DURING THE EB ROUTE 22 TO SB ROUTE 405 CONNECTOR CLOSURE, THE PCMS MESSAGE AT (A) SHOULD READ:

1st FRAME	2nd FRAME
SB 405 RAMP CLOSED	USE STUDEBAKER EXIT

2. DURING THE EB ROUTE 22 TO SB ROUTE 405 CONNECTOR CLOSURE, THE PCMS MESSAGE AT (B) SHOULD READ:

1st FRAME	2nd FRAME
SB 405 RAMP CLOSED	USE ALT ROUTES

DETOUR ROUTE (E22)

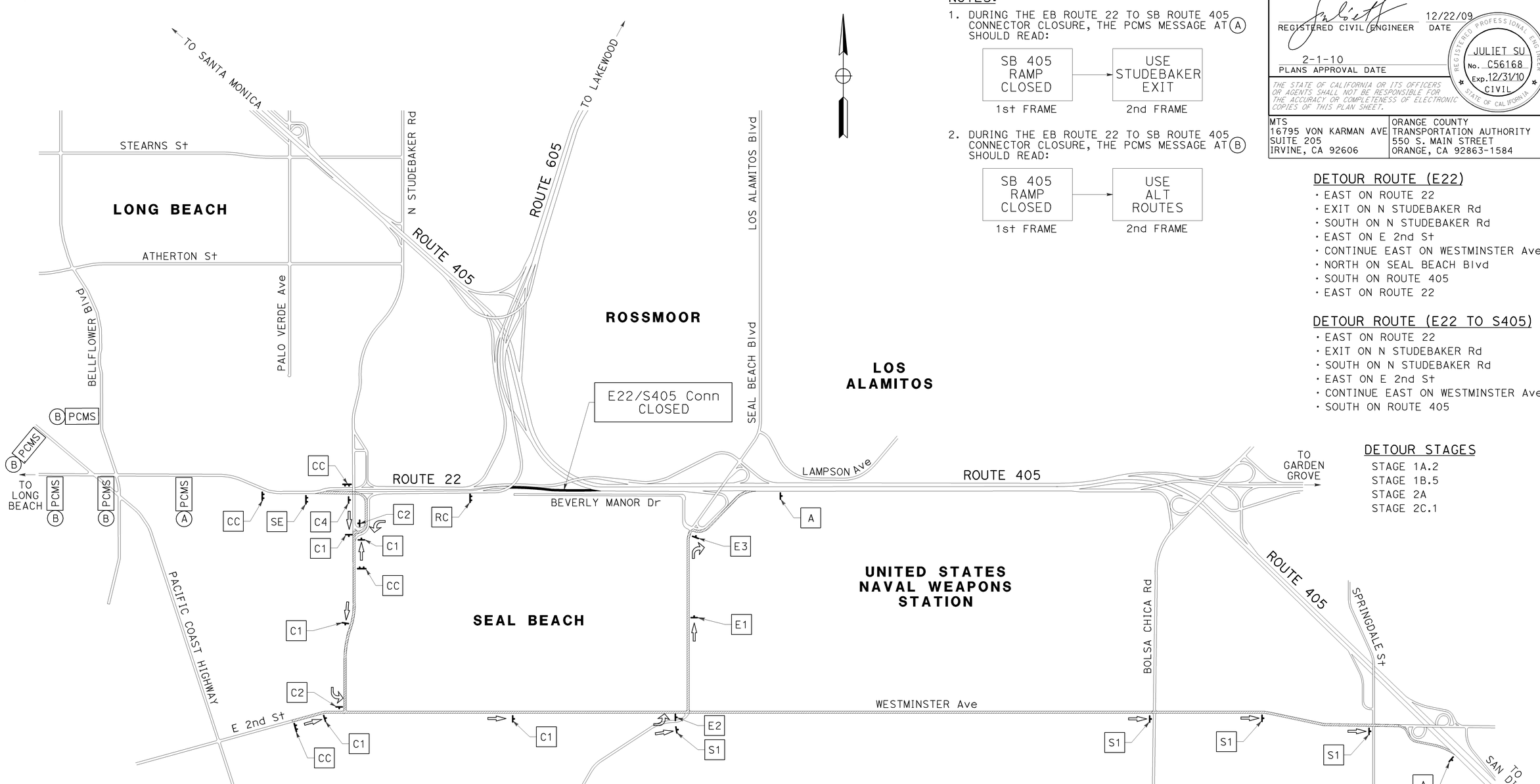
- EAST ON ROUTE 22
- EXIT ON N STUDEBAKER Rd
- SOUTH ON N STUDEBAKER Rd
- EAST ON E 2nd St
- CONTINUE EAST ON WESTMINSTER Ave
- NORTH ON SEAL BEACH Blvd
- SOUTH ON ROUTE 405
- EAST ON ROUTE 22

DETOUR ROUTE (E22 TO S405)

- EAST ON ROUTE 22
- EXIT ON N STUDEBAKER Rd
- SOUTH ON N STUDEBAKER Rd
- EAST ON E 2nd St
- CONTINUE EAST ON WESTMINSTER Ave
- SOUTH ON ROUTE 405

DETOUR STAGES

STAGE 1A.2
STAGE 1B.5
STAGE 2A
STAGE 2C.1



TRAFFIC HANDLING PLAN
DETOUR LAYOUT
(EB ROUTE 22 TO SB ROUTE 405 CONNECTOR CLOSURE)

NO SCALE

TH-9

THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY.

REVISED BY	DATE REVISED
KLA	12/22/09

CALCULATED- KELSIE ANDERSON
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 => 14:03

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmariak
DGN FILE => c07163md009.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	910	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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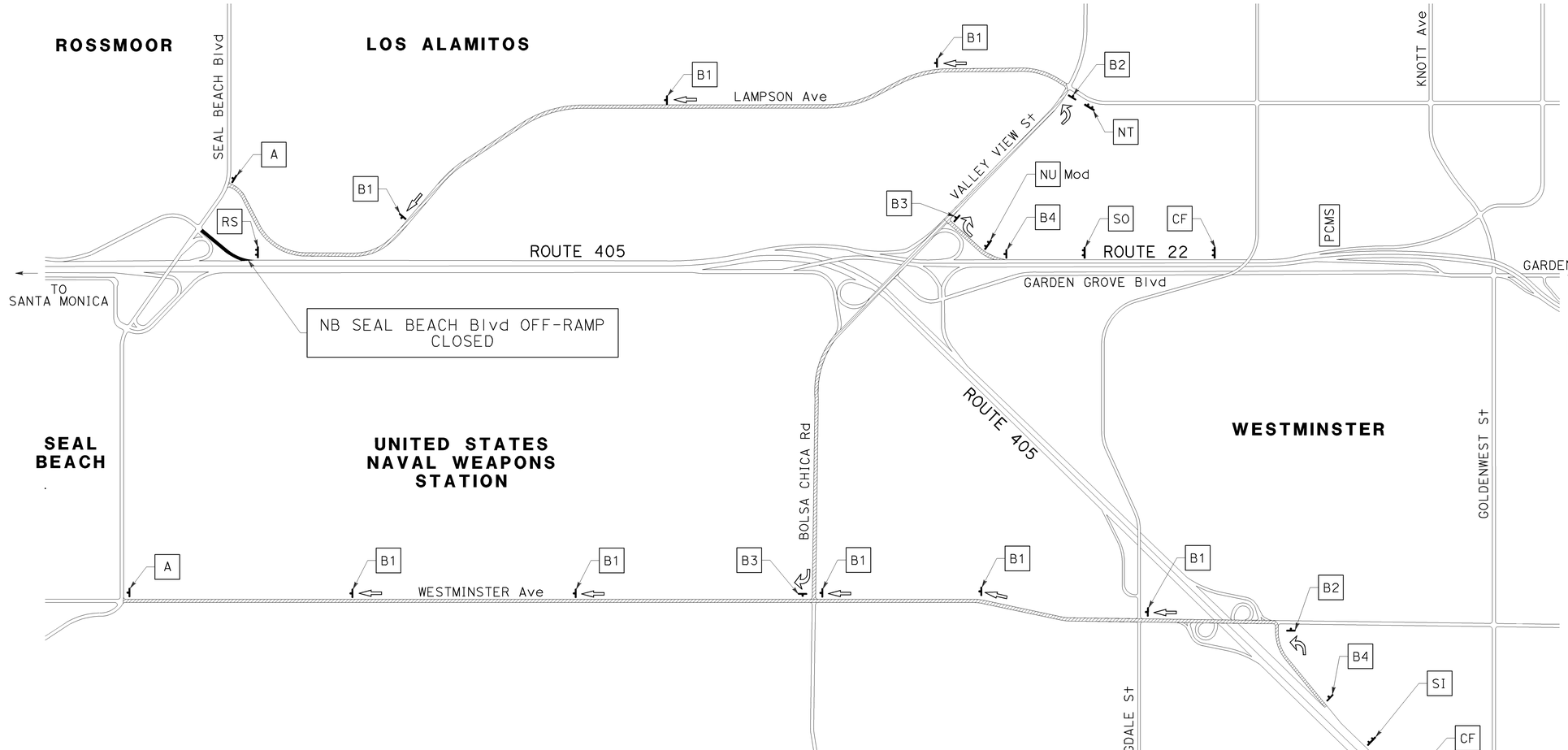

NOTE:

1. DURING THE NB SEAL BEACH Blvd OFF-RAMP CLOSURE,THE PCMS MESSAGE SHOULD READ:

SEAL BEACH EXIT CLOSED	→	USE WESTMINSTER EXIT
1st FRAME		2nd FRAME

DETOUR ROUTE
(N405 TO SEAL BEACH)
- NORTH ON ROUTE 405
- EXIT ON WESTMINSTER Ave
- WEST ON WESTMINSTER Ave

DETOUR ROUTE
(W22 TO SEAL BEACH)
- WEST ON ROUTE 22
- EXIT VALLEY VIEW St
- NORTH ON VALLEY VIEW St
- WEST ON LAMPSON Ave

DETOUR STAGES
STAGE 1A.1
STAGE 2A
STAGE 2B.1
STAGE 2C.1
STAGE 2D.1
STAGE 2D.2
STAGE 3A.1
STAGE 3B
STAGE 3D.1
STAGE 3E

TRAFFIC HANDLING PLAN
DETOUR LAYOUT
(NB SEAL BEACH Blvd OFF-RAMP CLOSURE)

NO SCALE

TH-10

THIS PLAN ACCURATE FOR DETOUR LAYOUT 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
08-10-09 | TIME PLOTTED => 14:03

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmariak
DGN FILE => c07163md010.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	911	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

DETOUR ROUTE (NORTH OF SEAL BEACH TO E22)

- EAST ON LAMPSON Ave
- SOUTH ON VALLEY VIEW St
- EAST ON GARDEN GROVE Blvd
- EAST ON ROUTE 22

DETOUR ROUTE (NORTH OF SEAL BEACH TO S405)

- EAST ON LAMPSON Ave
- SOUTH ON VALLEY VIEW St
- CONTINUE SOUTH ON BOLSA CHICA Rd
- EAST ON WESTMINSTER Ave
- SOUTH ON ROUTE 405

DETOUR ROUTE (SOUTH OF SEAL BEACH TO E22)

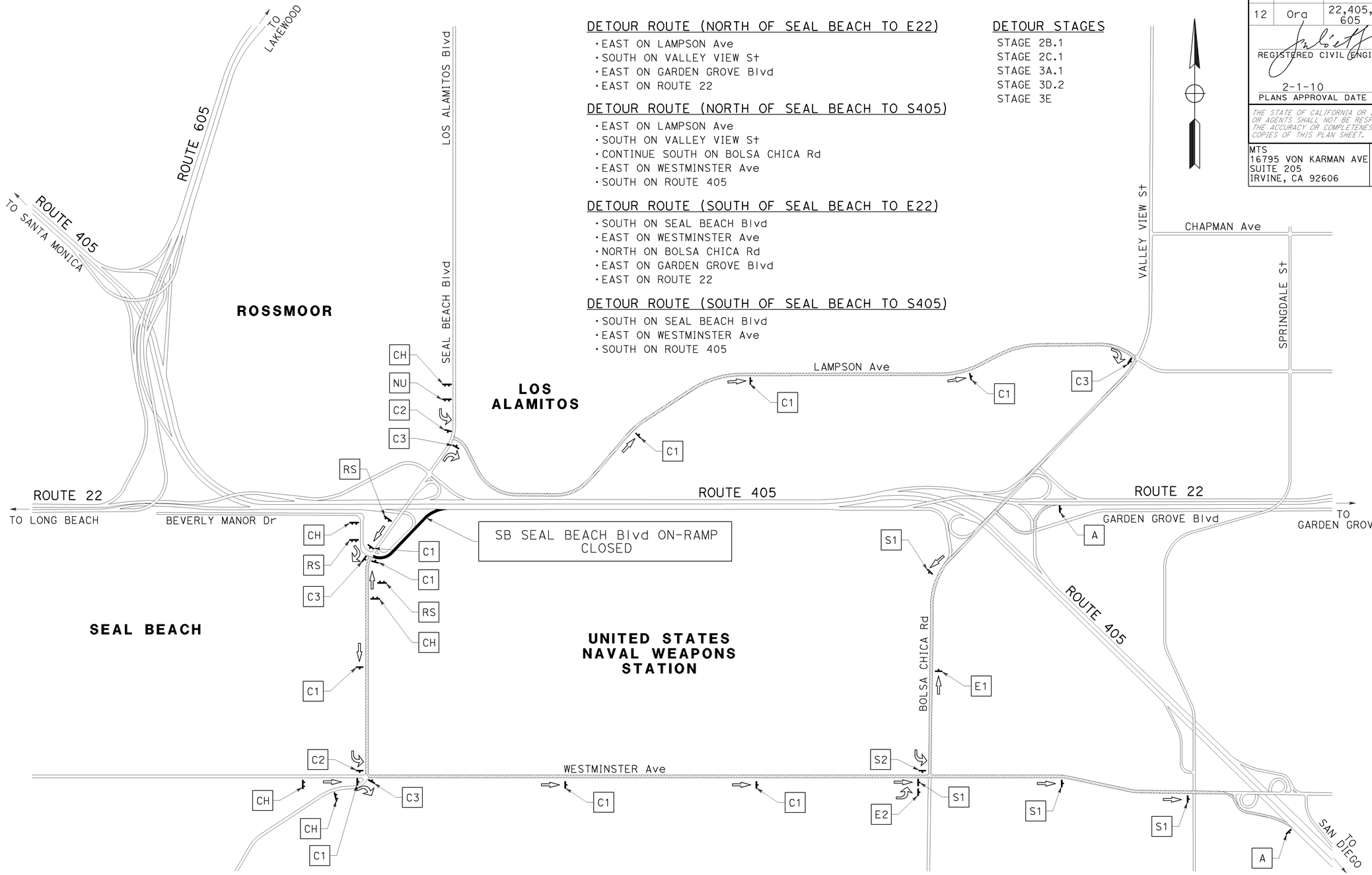
- SOUTH ON SEAL BEACH Blvd
- EAST ON WESTMINSTER Ave
- NORTH ON BOLSA CHICA Rd
- EAST ON GARDEN GROVE Blvd
- EAST ON ROUTE 22

DETOUR ROUTE (SOUTH OF SEAL BEACH TO S405)

- SOUTH ON SEAL BEACH Blvd
- EAST ON WESTMINSTER Ave
- SOUTH ON ROUTE 405

DETOUR STAGES

STAGE 2B.1
STAGE 2C.1
STAGE 3A.1
STAGE 3D.2
STAGE 3E



TRAFFIC HANDLING PLAN DETOUR LAYOUT

(SB SEAL BEACH Blvd ON-RAMP CLOSURE)

NO SCALE

TH-11

THIS PLAN ACCURATE FOR DETOUR LAYOUT 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
LAST REVISION TIME PLOTTED => 14:03
08-10-09

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmariak
DGN FILE => c07163md011.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	912	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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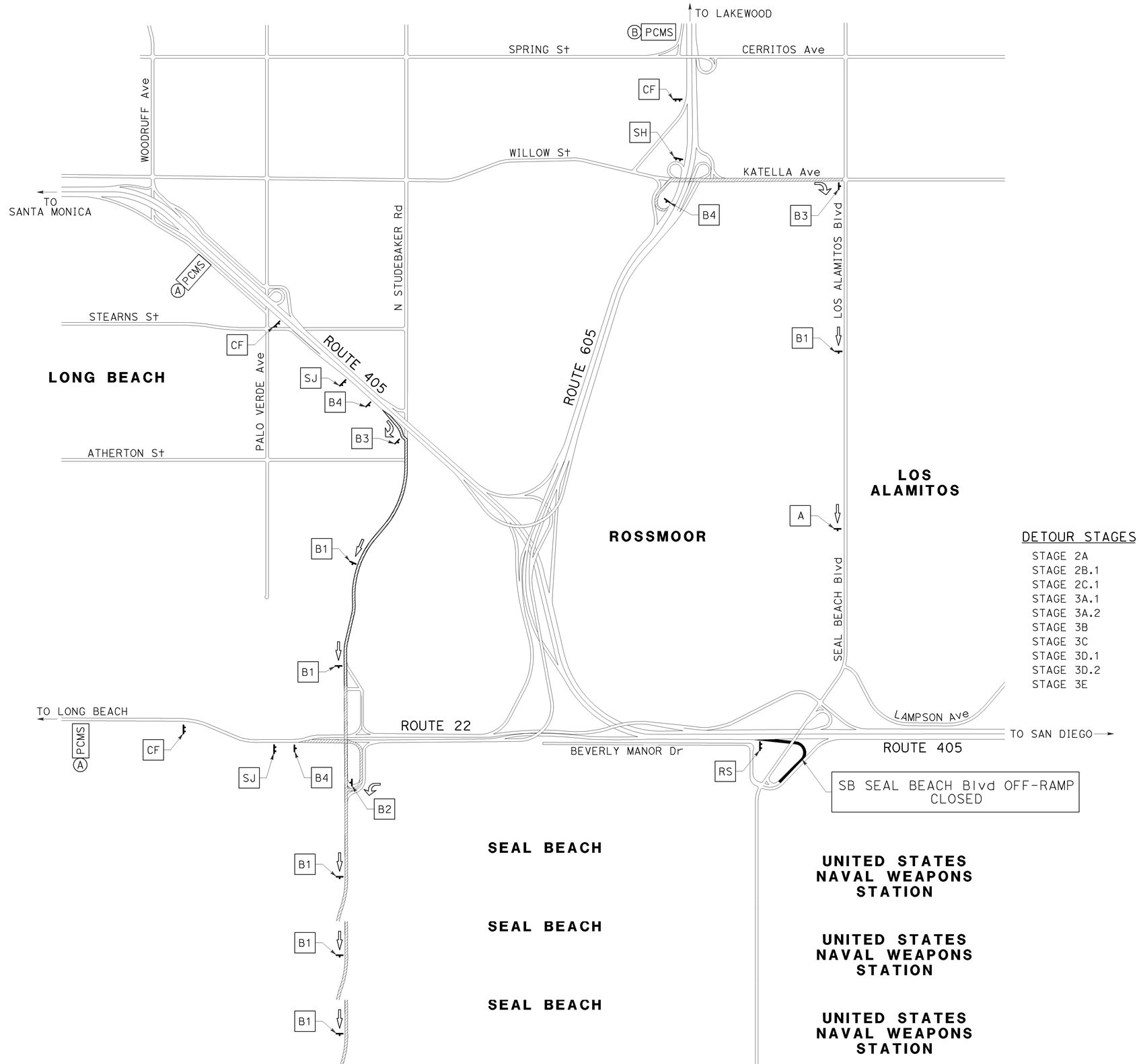

NOTES:

1. DURING THE SB SEAL BEACH Blvd OFF-RAMP CLOSURE, THE PCMS MESSAGE AT (A) SHOULD READ:

SEAL BEACH EXIT CLOSED	→	USE STUDEBAKER EXIT
1st FRAME		2nd FRAME

2. DURING THE SB SEAL BEACH Blvd OFF-RAMP CLOSURE, THE PCMS MESSAGE AT (B) SHOULD READ:

SEAL BEACH EXIT CLOSED	→	USE KATELLA EXIT
1st FRAME		2nd FRAME

DETOUR STAGES

STAGE 2A
STAGE 2B.1
STAGE 2C.1
STAGE 3A.1
STAGE 3A.2
STAGE 3B
STAGE 3C
STAGE 3D.1
STAGE 3D.2
STAGE 3E

DETOUR ROUTE (S405 TO SEAL BEACH)

- SOUTH ON ROUTE 405
- EXIT ON N STUDEBAKER Rd
- SOUTH ON N STUDEBAKER Rd
- EAST ON E 2nd St
- CONTINUE EAST ON WESTMINSTER Ave

DETOUR ROUTE (E22 TO SEAL BEACH)

- EAST ON ROUTE 22
- EXIT ON N STUDEBAKER Rd
- SOUTH ON N STUDEBAKER Rd
- EAST ON E 2nd St
- CONTINUE EAST ON WESTMINSTER Ave

DETOUR ROUTE (S605 TO SEAL BEACH)

- SOUTH ON ROUTE 605
- EXIT ON KATELLA Ave
- EAST ON KATELLA Ave
- SOUTH ON LOS ALAMITOS Blvd

TRAFFIC HANDLING PLAN

TRAFFIC HANDLING PLAN

TRAFFIC HANDLING PLAN

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

DEPARTMENT- DEPARTMENT- DEPARTMENT OF TRANSPORTATION

03-FEB-2010 14:04
03-FEB-2010 14:04
03-FEB-2010 14:04

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	913	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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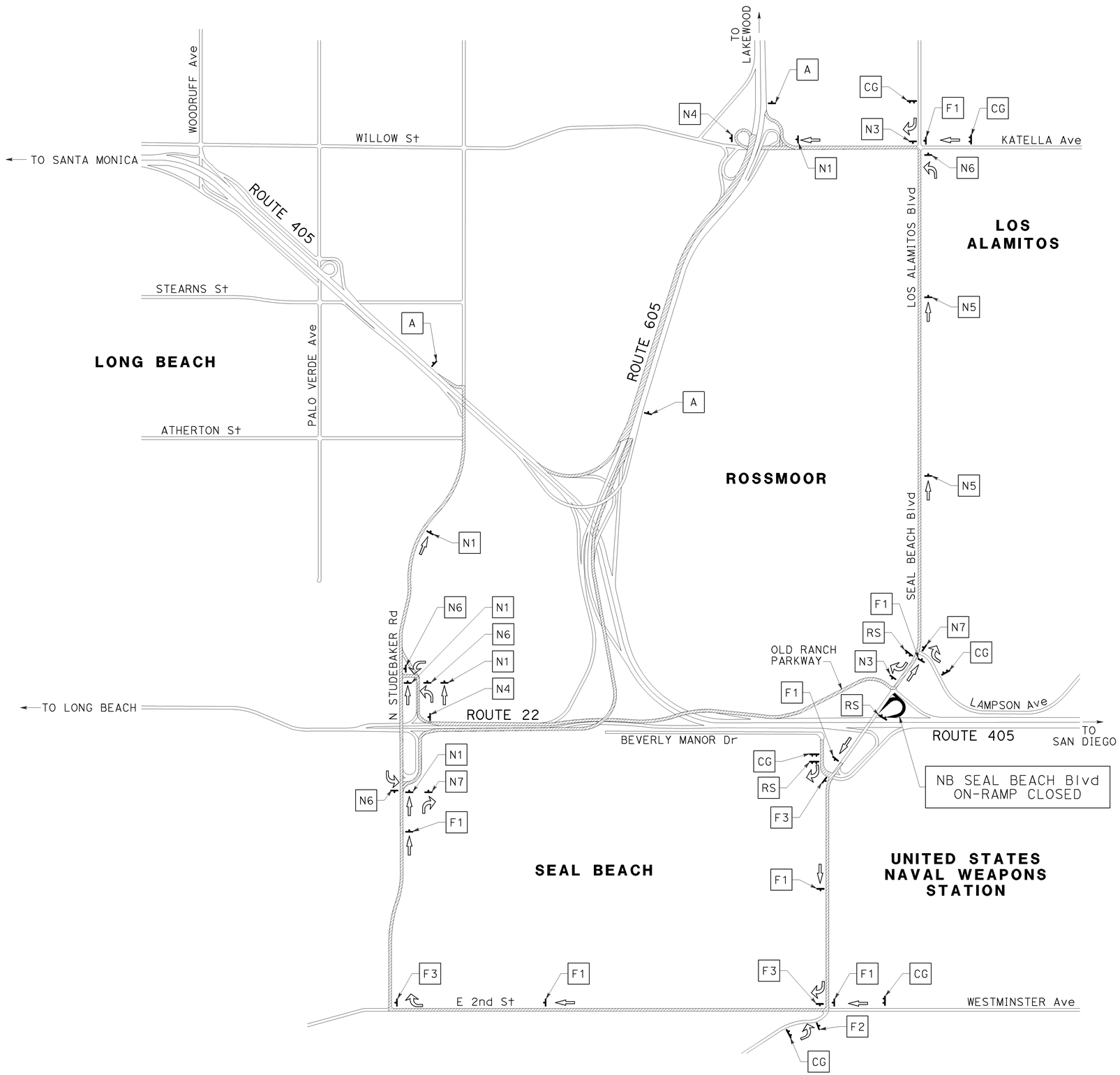

DETOUR STAGE

STAGE 1A.1
STAGE 1B.3
STAGE 2A
STAGE 2B.1
STAGE 2C.1
STAGE 2D.1
STAGE 2D.2

DETOUR ROUTE
(SOUTH OF SEAL BEACH TO N405)

- WEST ON WESTMINSTER Ave
- CONTINUE WEST ON E 2nd St
- NORTH ON N STUDEBAKER Rd
- NORTH ON ROUTE 405

DETOUR ROUTE
(SOUTH OF SEAL BEACH TO N605)

- WEST ON WESTMINSTER Ave
- CONTINUE WEST ON E 2nd St
- NORTH ON N STUDEBAKER Rd
- EAST ON ROUTE 22
- NORTH ON ROUTE 605

DETOUR ROUTE
(NORTH OF SEAL BEACH TO N405-Alt 1)

- WEST OLD RANCH PARKWAY
- WEST ON ROUTE 22
- EXIT ON N STUDEBAKER Rd
- NORTH ON N STUDEBAKER Rd
- NORTH ON ROUTE 405

DETOUR ROUTE
(NORTH OF SEAL BEACH TO N405-Alt 2)

- WEST ON KATELLA Ave
- SOUTH ON ROUTE 605
- NORTH ON ROUTE 405

DETOUR ROUTE
(NORTH OF SEAL BEACH TO N605-Alt 1)

- WEST ON OLD RANCH PARKWAY
- WEST ON ROUTE 22
- EXIT ON N STUDEBAKER Rd
- SOUTH ON N STUDEBAKER Rd
- EAST ON ROUTE 22
- NORTH ON ROUTE 605

DETOUR ROUTE
(NORTH OF SEAL BEACH TO N605-Alt 2)

- NORTH ON SEAL BEACH Blvd
- CONTINUE NORTH ON LOS ALAMITOS Blvd
- WEST ON KATELLA Ave
- NORTH ON ROUTE 605

TRAFFIC HANDLING PLAN
DETOUR LAYOUT
(NB SEAL BEACH Blvd ON-RAMP CLOSURE)

NO SCALE

TH-13

THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY.

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

LAST REVISION DATE PLOTTED => 03-FEB-2010
LAST REVISION TIME PLOTTED => 14:07
08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmariak DGN FILE => c07163md013.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	914	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

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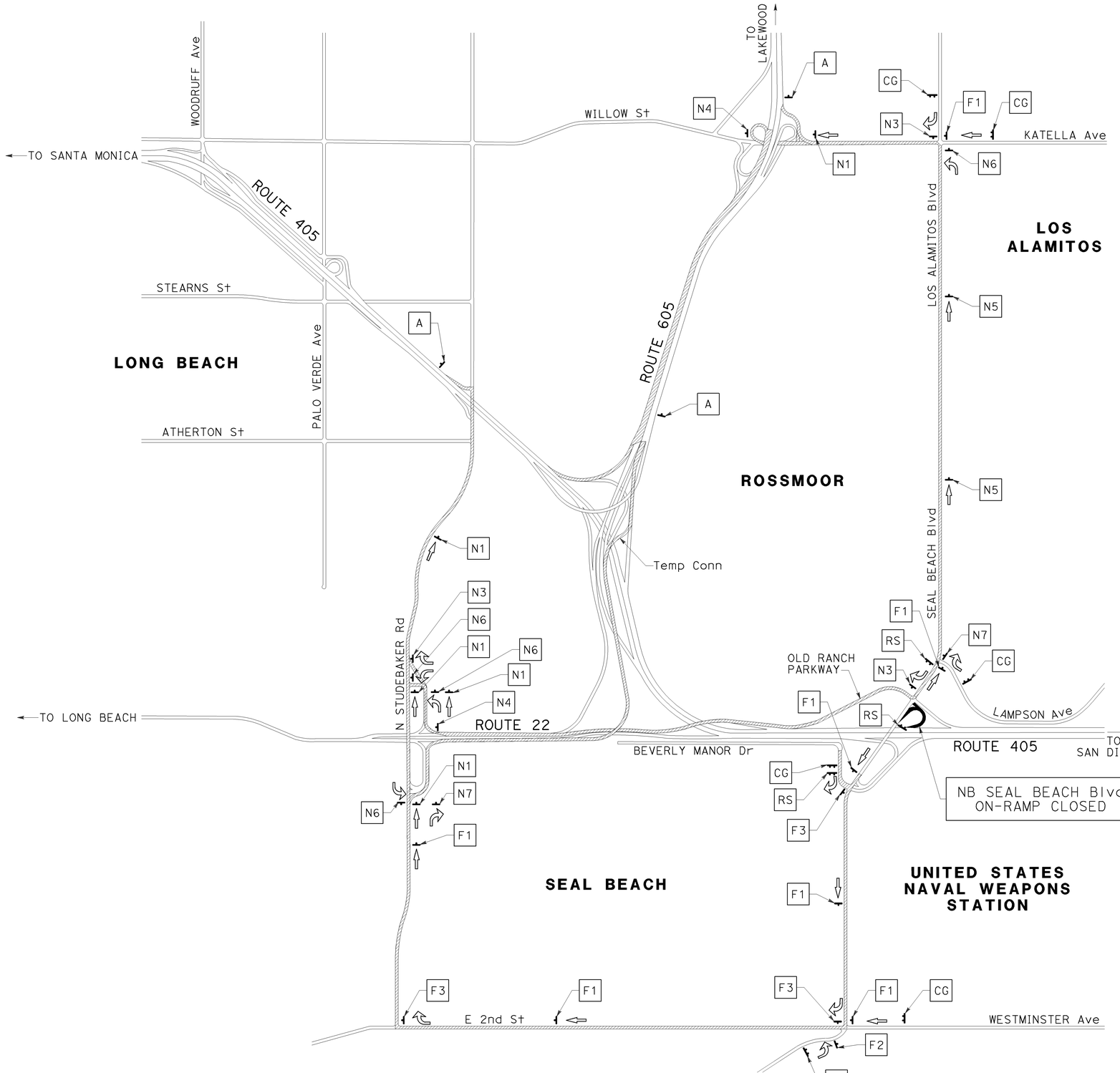


DETOUR STAGE

STAGE 3A.1
STAGE 3B
STAGE 3C
STAGE 3D.1
STAGE 3D.2
STAGE 3E

DETOUR ROUTE (SOUTH OF SEAL BEACH TO N405)

- WEST ON WESTMINSTER Ave
- CONTINUE WEST ON E 2nd St
- NORTH ON N STUDEBAKER Rd
- NORTH ON ROUTE 405

DETOUR ROUTE (SOUTH OF SEAL BEACH TO N605)

- WEST ON WESTMINSTER Ave
- CONTINUE WEST ON E 2nd St
- NORTH ON N STUDEBAKER Rd
- EAST ON ROUTE 22
- USE Temp Conn
- NORTH ON ROUTE 605

DETOUR ROUTE (NORTH OF SEAL BEACH TO N405-Alt 1)

- WEST OLD RANCH PARKWAY
- WEST ON ROUTE 22
- EXIT ON N STUDEBAKER Rd
- NORTH ON N STUDEBAKER Rd
- NORTH ON ROUTE 405

DETOUR ROUTE (NORTH OF SEAL BEACH TO N405-Alt 2)

- WEST ON KATELLA Ave
- SOUTH ON ROUTE 605
- NORTH ON ROUTE 405

DETOUR ROUTE (NORTH OF SEAL BEACH TO N605-Alt 1)

- WEST ON OLD RANCH PARKWAY
- WEST ON ROUTE 22
- EXIT ON N STUDEBAKER Rd
- SOUTH ON N STUDEBAKER Rd
- EAST ON ROUTE 22
- USE Temp Conn
- NORTH ON ROUTE 605

DETOUR ROUTE (NORTH OF SEAL BEACH TO N605-Alt 2)

- NORTH ON SEAL BEACH Blvd
- CONTINUE NORTH ON LOS ALAMITOS Blvd
- WEST ON KATELLA Ave
- NORTH ON ROUTE 605

TRAFFIC HANDLING PLAN DETOUR LAYOUT

(NB SEAL BEACH Blvd ON-RAMP CLOSURE)

NO SCALE

TH-14

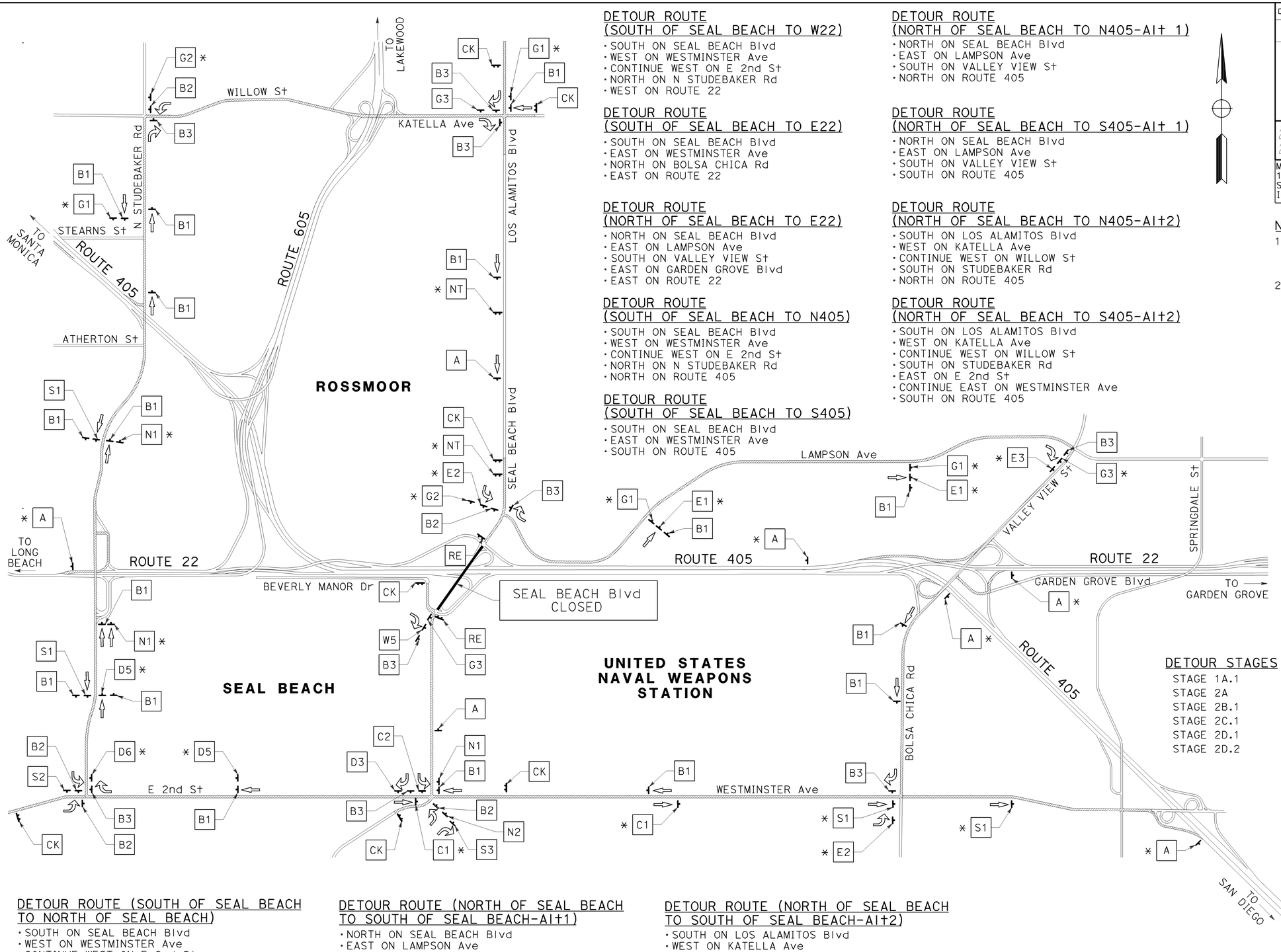
THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY.

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 => 14:22
08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmnguye | DGN FILE => c07163md014.dgn | CU 12235 | EA 071631



DETOUR ROUTE (SOUTH OF SEAL BEACH TO W22)

- SOUTH ON SEAL BEACH Blvd
- WEST ON WESTMINSTER Ave
- CONTINUE WEST ON E 2nd St
- NORTH ON N STUDEBAKER Rd
- WEST ON ROUTE 22

DETOUR ROUTE (SOUTH OF SEAL BEACH TO E22)

- SOUTH ON SEAL BEACH Blvd
- EAST ON WESTMINSTER Ave
- NORTH ON BOLSA CHICA Rd
- EAST ON ROUTE 22

DETOUR ROUTE (NORTH OF SEAL BEACH TO E22)

- NORTH ON SEAL BEACH Blvd
- EAST ON LAMPSON Ave
- SOUTH ON VALLEY VIEW St
- EAST ON GARDEN GROVE Blvd
- EAST ON ROUTE 22

DETOUR ROUTE (SOUTH OF SEAL BEACH TO N405)

- SOUTH ON SEAL BEACH Blvd
- WEST ON WESTMINSTER Ave
- CONTINUE WEST ON E 2nd St
- NORTH ON N STUDEBAKER Rd
- NORTH ON ROUTE 405

DETOUR ROUTE (SOUTH OF SEAL BEACH TO S405)

- SOUTH ON SEAL BEACH Blvd
- EAST ON WESTMINSTER Ave
- SOUTH ON ROUTE 405

DETOUR ROUTE (NORTH OF SEAL BEACH TO N405-Alt 1)

- NORTH ON SEAL BEACH Blvd
- EAST ON LAMPSON Ave
- SOUTH ON VALLEY VIEW St
- NORTH ON ROUTE 405

DETOUR ROUTE (NORTH OF SEAL BEACH TO S405-Alt 1)

- NORTH ON SEAL BEACH Blvd
- EAST ON LAMPSON Ave
- SOUTH ON VALLEY VIEW St
- SOUTH ON ROUTE 405

DETOUR ROUTE (NORTH OF SEAL BEACH TO N405-Alt2)

- SOUTH ON LOS ALAMITOS Blvd
- WEST ON KATELLA Ave
- CONTINUE WEST ON WILLOW St
- SOUTH ON STUDEBAKER Rd
- NORTH ON ROUTE 405

DETOUR ROUTE (NORTH OF SEAL BEACH TO S405-Alt2)

- SOUTH ON LOS ALAMITOS Blvd
- WEST ON KATELLA Ave
- CONTINUE WEST ON WILLOW St
- SOUTH ON STUDEBAKER Rd
- EAST ON E 2nd St
- CONTINUE EAST ON WESTMINSTER Ave
- SOUTH ON ROUTE 405

DETOUR ROUTE (SOUTH OF SEAL BEACH TO NORTH OF SEAL BEACH)

- SOUTH ON SEAL BEACH Blvd
- WEST ON WESTMINSTER Ave
- CONTINUE WEST ON E 2nd St
- NORTH ON N STUDEBAKER Rd
- EAST ON WILLOW St
- CONTINUE EAST ON KATELLA Ave
- SOUTH ON LOS ALAMITOS Blvd

DETOUR ROUTE (NORTH OF SEAL BEACH TO SOUTH OF SEAL BEACH-Alt1)

- NORTH ON SEAL BEACH Blvd
- EAST ON LAMPSON Ave
- SOUTH ON VALLEY VIEW St
- CONTINUE SOUTH ON BOLSA CHICA Rd
- WEST ON WESTMINSTER Ave

DETOUR ROUTE (NORTH OF SEAL BEACH TO SOUTH OF SEAL BEACH-Alt2)

- SOUTH ON LOS ALAMITOS Blvd
- WEST ON KATELLA Ave
- CONTINUE WEST ON WILLOW St
- SOUTH ON N STUDEBAKER Rd
- EAST ON E 2nd St

DETOUR STAGES

STAGE 1A.1
STAGE 2A
STAGE 2B.1
STAGE 2C.1
STAGE 2D.1
STAGE 2D.2

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	915	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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IRVINE, CA 92606

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

NOTES:

1. WHEN CONSTRUCTION ACTIVITIES ALSO ACTIVITIES ALSO REQUIRE THE CLOSURE OF THE FREEWAY, USE THIS DETOUR IN IN COMBINATION WITH TH-17.
2. SIGNS MARKED WITH AN ASTERISK ARE COMMON TO THIS SHEET AND TH-17.

TRAFFIC HANDLING PLAN DETOUR LAYOUT (SEAL BEACH Blvd CLOSURE IN BOTH DIRECTIONS)

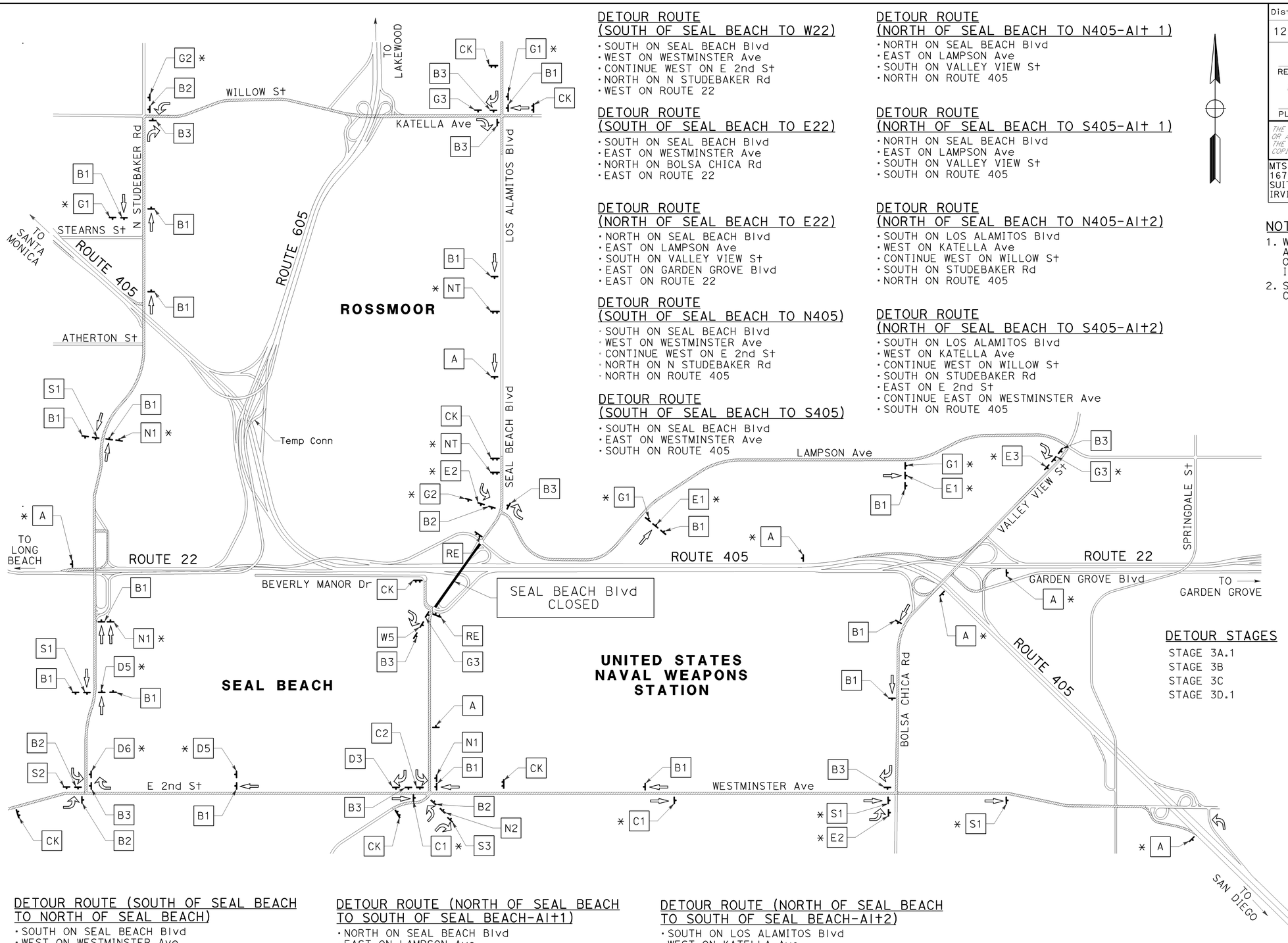
NO SCALE

TH-15

THIS PLAN ACCURATE FOR DETOUR LAYOUT 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 => 14:22

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmnguye
DGN FILE => c07163md015.dgn
CU 12235
EA 071631



DETOUR ROUTE (SOUTH OF SEAL BEACH TO W22)

- SOUTH ON SEAL BEACH Blvd
- WEST ON WESTMINSTER Ave
- CONTINUE WEST ON E 2nd St
- NORTH ON N STUDEBAKER Rd
- WEST ON ROUTE 22

DETOUR ROUTE (SOUTH OF SEAL BEACH TO E22)

- SOUTH ON SEAL BEACH Blvd
- EAST ON WESTMINSTER Ave
- NORTH ON BOLSA CHICA Rd
- EAST ON ROUTE 22

DETOUR ROUTE (NORTH OF SEAL BEACH TO E22)

- NORTH ON SEAL BEACH Blvd
- EAST ON LAMPSON Ave
- SOUTH ON VALLEY VIEW St
- EAST ON GARDEN GROVE Blvd
- EAST ON ROUTE 22

DETOUR ROUTE (SOUTH OF SEAL BEACH TO N405)

- SOUTH ON SEAL BEACH Blvd
- WEST ON WESTMINSTER Ave
- CONTINUE WEST ON E 2nd St
- NORTH ON N STUDEBAKER Rd
- NORTH ON ROUTE 405

DETOUR ROUTE (SOUTH OF SEAL BEACH TO S405)

- SOUTH ON SEAL BEACH Blvd
- EAST ON WESTMINSTER Ave
- SOUTH ON ROUTE 405

DETOUR ROUTE (NORTH OF SEAL BEACH TO N405-Alt 1)

- NORTH ON SEAL BEACH Blvd
- EAST ON LAMPSON Ave
- SOUTH ON VALLEY VIEW St
- NORTH ON ROUTE 405

DETOUR ROUTE (NORTH OF SEAL BEACH TO S405-Alt 1)

- NORTH ON SEAL BEACH Blvd
- EAST ON LAMPSON Ave
- SOUTH ON VALLEY VIEW St
- SOUTH ON ROUTE 405

DETOUR ROUTE (NORTH OF SEAL BEACH TO N405-Alt2)

- SOUTH ON LOS ALAMITOS Blvd
- WEST ON KATELLA Ave
- CONTINUE WEST ON WILLOW St
- SOUTH ON STUDEBAKER Rd
- NORTH ON ROUTE 405

DETOUR ROUTE (NORTH OF SEAL BEACH TO S405-Alt2)

- SOUTH ON LOS ALAMITOS Blvd
- WEST ON KATELLA Ave
- CONTINUE WEST ON WILLOW St
- SOUTH ON STUDEBAKER Rd
- EAST ON E 2nd St
- CONTINUE EAST ON WESTMINSTER Ave
- SOUTH ON ROUTE 405

DETOUR STAGES

STAGE 3A.1
STAGE 3B
STAGE 3C
STAGE 3D.1

DETOUR ROUTE (SOUTH OF SEAL BEACH TO NORTH OF SEAL BEACH)

- SOUTH ON SEAL BEACH Blvd
- WEST ON WESTMINSTER Ave
- CONTINUE WEST ON E 2nd St
- NORTH ON N STUDEBAKER Rd
- EAST ON WILLOW St
- CONTINUE EAST ON KATELLA Ave
- SOUTH ON LOS ALAMITOS Blvd

DETOUR ROUTE (NORTH OF SEAL BEACH TO SOUTH OF SEAL BEACH-Alt1)

- NORTH ON SEAL BEACH Blvd
- EAST ON LAMPSON Ave
- SOUTH ON VALLEY VIEW St
- CONTINUE SOUTH ON BOLSA CHICA Rd
- WEST ON WESTMINSTER Ave

DETOUR ROUTE (NORTH OF SEAL BEACH TO SOUTH OF SEAL BEACH-Alt2)

- SOUTH ON LOS ALAMITOS Blvd
- WEST ON KATELLA Ave
- CONTINUE WEST ON WILLOW St
- SOUTH ON N STUDEBAKER Rd
- EAST ON E 2nd St

THIS PLAN ACCURATE FOR DETOUR LAYOUT 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	916	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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NOTES:

1. WHEN CONSTRUCTION ACTIVITIES ALSO ACTIVITIES ALSO REQUIRE THE CLOSURE OF THE FREEWAY, USE THIS DETOUR IN IN COMBINATION WITH TH-17.
2. SIGNS MARKED WITH AN ASTERISK ARE COMMON TO THIS SHEET AND TH-18.

TRAFFIC HANDLING PLAN DETOUR LAYOUT (SEAL BEACH Blvd CLOSURE IN BOTH DIRECTIONS)

NO SCALE

TH-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
Caltrans

LAST REVISION: DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 14:22

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmnguye
DGN FILE => c07163md016.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	917	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

DETOUR ROUTE (S405 TO S405-Alt 1)
- SOUTH ON ROUTE 405
- EXIT ON N STUDEBAKER Rd
- SOUTH ON N STUDEBAKER Rd
- EAST ON E 2nd St
- CONTINUE EAST ON WESTMINSTER Ave
- SOUTH ON ROUTE 405

DETOUR ROUTE (S605 TO S405-Alt 1)
- SOUTH ON ROUTE 605
- WEST ON ROUTE 22
- EXIT ON N STUDEBAKER Rd
- SOUTH ON N STUDEBAKER Rd
- EAST ON E 2nd St
- CONTINUE EAST ON WESTMINSTER Ave
- SOUTH ON ROUTE 405

DETOUR ROUTE (W22 TO W22)
- WEST ON ROUTE 22
- EXIT ON VALLEY VIEW St
- NORTH ON VALLEY VIEW St
- WEST ON KATELLA Ave
- SOUTH ON ROUTE 605
- WEST ON ROUTE 22

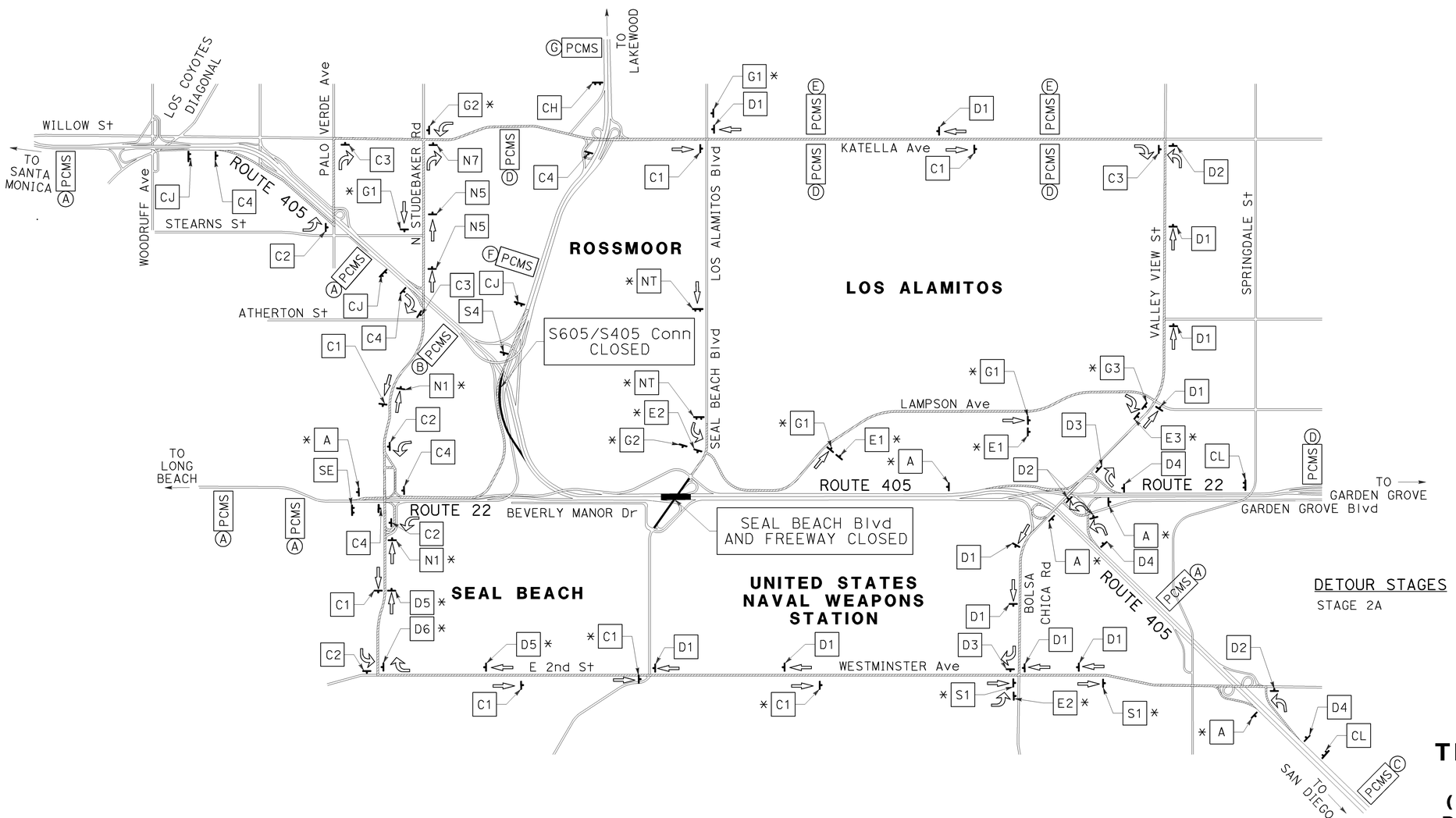
DETOUR ROUTE (N405 to N405-Alt 1)
- NORTH ON ROUTE 405
- EXIT ON WESTMINSTER Ave
- WEST ON WESTMINSTER Ave
- CONTINUE WEST ON E 2nd St
- NORTH ON N STUDEBAKER Rd
- NORTH ON ROUTE 405

DETOUR ROUTE (S405 TO S405-Alt 2)
- SOUTH ON ROUTE 405
- EXIT ON PALO VERDE Ave
- NORTH ON PALO VERDE Ave
- EAST ON WILLOW St
- CONTINUE EAST ON KATELLA Ave
- SOUTH ON VALLEW VIEW St
- SOUTH ON ROUTE 405

DETOUR ROUTE (S605 TO S405-Alt 2)
- SOUTH ON ROUTE 605
- EXIT ON KATELLA Ave
- EAST ON KATELLA Ave
- SOUTH ON VALLEW VIEW St
- SOUTH ON ROUTE 405

DETOUR ROUTE (E22 TO E22)
- EAST ON ROUTE 22
- EXIT ON N STUDEBAKER Rd
- SOUTH ON N STUDEBAKER Rd
- EAST ON E 2nd St
- CONTINUE EAST ON WESTMINSTER Ave
- NORTH ON BOLSA CHICA Rd
- EAST ON GARDEN GROVE Blvd
- EAST ON ROUTE 22

DETOUR ROUTE (N405 to N405-Alt 2)
- NORTH ON ROUTE 405
- EXIT ON VALLEY VIEW St
- WEST ON GARDEN GROVE Blvd
- SOUTH ON VALLEW VIEW St
- CONTINUE SOUTH ON BOLSA CHICA Rd
- WEST ON WESTMINSTER Ave
- CONTINUE WEST ON E 2nd St
- NORTH ON N STUDEBAKER Rd
- NORTH ON ROUTE 405



DETOUR STAGES

STAGE 2A

NOTES:

1. DURING THE SEAL BEACH CLOSURE, THE PCMS MESSAGE AT (A) SHOULD READ:

1st FRAME	2nd FRAME
I-405 FREEWAY CLOSED	USE DETOUR

2. DURING THE SEAL BEACH CLOSURE, THE PCMS MESSAGE AT (B) SHOULD READ:

1st FRAME	2nd FRAME
SB I-405 RAMP CLOSED	USE NB 605 RAMP

3. DURING THE SEAL BEACH CLOSURE, THE PCMS MESSAGE AT (C) SHOULD READ:

1st FRAME	2nd FRAME
I-405 FREEWAY CLOSED	USE WESTMINSTER

4. DURING THE SEAL BEACH CLOSURE, THE PCMS MESSAGE AT (D) SHOULD READ:

1st FRAME	2nd FRAME
I-405 FREEWAY DETOUR	USE VALLEY VIEW

5. DURING THE SEAL BEACH CLOSURE, THE PCMS MESSAGE AT (E) SHOULD READ:

1st FRAME	2nd FRAME
I-405 FREEWAY DETOUR	USE KATELLA EXIT

6. DURING THE SEAL BEACH CLOSURE, THE PCMS MESSAGE AT (F) SHOULD READ:

1st FRAME	2nd FRAME
I-405 FREEWAY DETOUR	USE WB SR-22 RAMP

7. DURING THE SEAL BEACH CLOSURE, THE PCMS MESSAGE AT (G) SHOULD READ:

1st FRAME	2nd FRAME
SB I-405 RAMP CLOSED	USE KATELLA EXIT

8. USE THIS DETOUR IN COMBINATION WITH TH-15.
9. SIGNS MARKED WITH AN ASTERISK ARE COMMON TO THIS SHEET AND TH-15.

TRAFFIC HANDLING PLAN DETOUR LAYOUT
(SEAL BEACH Blvd CLOSURE DURING BRIDGE DEMOLITION)

NO SCALE **TH-17**

THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY.

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

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 14:22
08-10-09

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmnguye
DGN FILE => c071631md017.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	918	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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DETOUR ROUTE (S405 TO S405-Alt 1)
- SOUTH ON ROUTE 405
- EXIT ON N STUDEBAKER Rd
- SOUTH ON N STUDEBAKER Rd
- EAST ON E 2nd St
- CONTINUE EAST ON WESTMINSTER Ave
- SOUTH ON ROUTE 405

DETOUR ROUTE (S605 TO S405-Alt 1)
- SOUTH ON ROUTE 605
- WEST ON ROUTE 22
- EXIT ON N STUDEBAKER Rd
- SOUTH ON N STUDEBAKER Rd
- EAST ON E 2nd St
- CONTINUE EAST ON WESTMINSTER Ave
- SOUTH ON ROUTE 405

DETOUR ROUTE (W22 TO W22)
- WEST ON ROUTE 22
- EXIT ON VALLEY VIEW St
- NORTH ON VALLEY VIEW St
- WEST ON KATELLA Ave
- SOUTH ON ROUTE 605
- WEST ON ROUTE 22

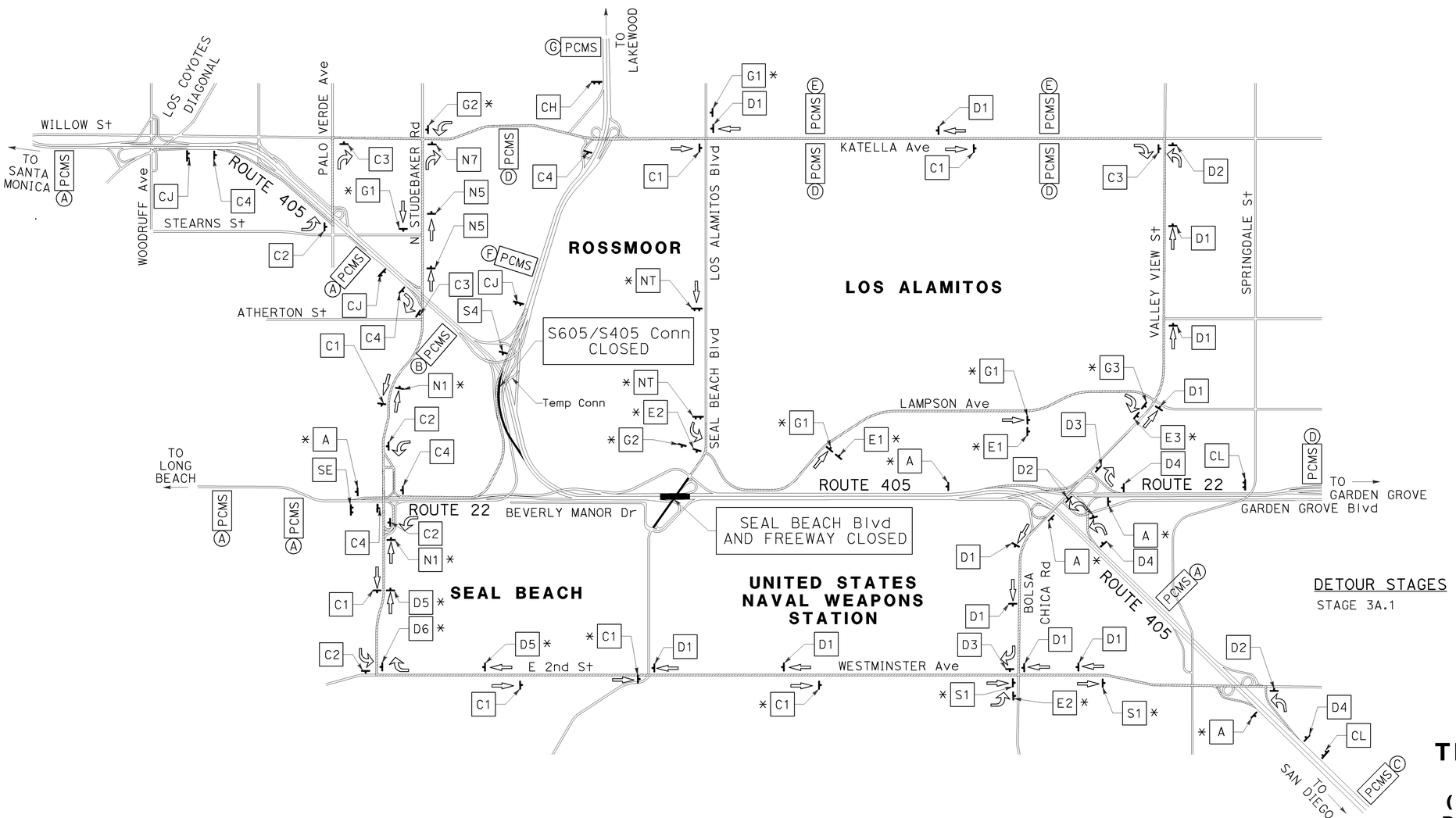
DETOUR ROUTE (N405 to N405-Alt 1)
- NORTH ON ROUTE 405
- EXIT ON WESTMINSTER Ave
- WEST ON WESTMINSTER Ave
- CONTINUE WEST ON E 2nd St
- NORTH ON N STUDEBAKER Rd
- NORTH ON ROUTE 405

DETOUR ROUTE (S405 TO S405-Alt 2)
- SOUTH ON ROUTE 405
- EXIT ON PALO VERDE Ave
- NORTH ON PALO VERDE Ave
- EAST ON WILLOW St
- CONTINUE EAST ON KATELLA Ave
- SOUTH ON VALLEW VIEW St
- SOUTH ON ROUTE 405

DETOUR ROUTE (S605 TO S405-Alt 2)
- SOUTH ON ROUTE 605
- EXIT ON KATELLA Ave
- EAST ON KATELLA Ave
- SOUTH ON VALLEW VIEW St
- SOUTH ON ROUTE 405

DETOUR ROUTE (E22 TO E22)
- EAST ON ROUTE 22
- EXIT ON N STUDEBAKER Rd
- SOUTH ON N STUDEBAKER Rd
- EAST ON E 2nd St
- CONTINUE EAST ON WESTMINSTER Ave
- NORTH ON BOLSA CHICA Rd
- EAST ON GARDEN GROVE Blvd
- EAST ON ROUTE 22

DETOUR ROUTE (N405 to N405-Alt 2)
- NORTH ON ROUTE 405
- EXIT ON VALLEY VIEW St
- WEST ON GARDEN GROVE Blvd
- SOUTH ON VALLEW VIEW St
- CONTINUE SOUTH ON BOLSA CHICA Rd
- WEST ON WESTMINSTER Ave
- CONTINUE WEST ON E 2nd St
- NORTH ON N STUDEBAKER Rd
- NORTH ON ROUTE 405



DETOUR STAGES

STAGE 3A.1

NOTES:

1. DURING THE SEAL BEACH CLOSURE, THE PCMS MESSAGE AT (A) SHOULD READ:

1st FRAME	2nd FRAME
I-405 FREEWAY CLOSED	USE DETOUR

2. DURING THE SEAL BEACH CLOSURE, THE PCMS MESSAGE AT (B) SHOULD READ:

1st FRAME	2nd FRAME
SB I-405 RAMP CLOSED	USE NB 605 RAMP

3. DURING THE SEAL BEACH CLOSURE, THE PCMS MESSAGE AT (C) SHOULD READ:

1st FRAME	2nd FRAME
I-405 FREEWAY CLOSED	USE WESTMINSTER

4. DURING THE SEAL BEACH CLOSURE, THE PCMS MESSAGE AT (D) SHOULD READ:

1st FRAME	2nd FRAME
I-405 FREEWAY DETOUR	USE VALLEY VIEW

5. DURING THE SEAL BEACH CLOSURE, THE PCMS MESSAGE AT (E) SHOULD READ:

1st FRAME	2nd FRAME
I-405 FREEWAY DETOUR	USE KATELLA EXIT

6. DURING THE SEAL BEACH CLOSURE, THE PCMS MESSAGE AT (F) SHOULD READ:

1st FRAME	2nd FRAME
I-405 FREEWAY DETOUR	USE WB SR-22 RAMP

7. DURING THE SEAL BEACH CLOSURE, THE PCMS MESSAGE AT (G) SHOULD READ:

1st FRAME	2nd FRAME
SB I-405 RAMP CLOSED	USE KATELLA EXIT

8. USE THIS DETOUR IN COMBINATION WITH TH-16.
9. SIGNS MARKED WITH AN ASTERISK ARE COMMON TO THIS SHEET AND TH-16.

TRAFFIC HANDLING PLAN DETOUR LAYOUT
(SEAL BEACH Blvd CLOSURE DURING BRIDGE DEMOLITION)

NO SCALE **TH-18**

THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY.

KLA	12/22/09	KELSIE ANDERSON	JULIET SU

REVISED BY — DATE REVISED — CALCULATED-DESIGNED BY — CHECKED BY

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 14:22
08-10-09

BORDER LAST REVISED 8/1/2008 — RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 — USERNAME => trmnguye — DGN FILE => c07163md018.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	919	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

DETOUR ROUTE (SOUTH OF SEAL BEACH TO N405)

- SOUTH ON SEAL BEACH Blvd
- WEST ON WESTMINSTER Ave
- CONTINUE WEST ON E 2nd St
- NORTH ON N STUDEBAKER Rd
- NORTH ON ROUTE 405

DETOUR ROUTE (SOUTH OF SEAL BEACH TO W22)

- SOUTH ON SEAL BEACH Blvd
- WEST ON WESTMINSTER Ave
- CONTINUE WEST ON E 2nd St
- NORTH ON N STUDEBAKER Rd
- WEST ON ROUTE 22

DETOUR ROUTE (SOUTH OF SEAL BEACH TO NORTH OF SEAL BEACH)

- EAST ON WESTMINSTER Ave
- NORTH ON BOLSA CHICA Rd
- CONTINUE NORTH ON VALLEY VIEW St
- WEST ON LAMPSON Ave

DETOUR ROUTE (N405 TO SOUTH OF SEAL BEACH)

- NORTH ON ROUTE 405
- EXIT ON SEAL BEACH Blvd
- WEST ON OLD RANCH PARKWAY
- WEST ON ROUTE 22
- EXIT ON N STUDEBAKER Rd
- SOUTH ON N STUDEBAKER Rd
- EAST ON E 2nd St
- CONTINUE EAST ON WESTMINSTER Ave

DETOUR ROUTE (NORTH OF SEAL BEACH TO S405)

- WEST ON OLD RANCH PARKWAY
- WEST ON ROUTE 22
- EXIT ON N STUDEBAKER Rd
- SOUTH ON N STUDEBAKER Rd
- EAST ON ROUTE 22
- SOUTH ON ROUTE 405

DETOUR ROUTE (NORTH OF SEAL BEACH TO E22)

- NORTH ON SEAL BEACH Blvd
- EAST ON LAMPSON Ave
- SOUTH ON VALLEY VIEW St
- EAST ON GARDEN GROVE Blvd
- EAST ON ROUTE 22

DETOUR ROUTE (NORTH OF SEAL BEACH TO SOUTH OF SEAL BEACH-Alt1)

- EAST ON LAMPSON Ave
- SOUTH ON VALLEY VIEW St
- CONTINUE SOUTH ON BOLSA CHICA Rd
- WEST ON WESTMINSTER Ave

DETOUR ROUTE (NORTH OF SEAL BEACH TO SOUTH OF SEAL BEACH-Alt2)

- WEST ON KATELLA Ave
- SOUTH ON ROUTE 605
- SOUTH ON ROUTE 405
- EXIT ON SEAL BEACH Blvd

DETOUR ROUTE (S405 TO NORTH OF SEAL BEACH)

- SOUTH ON ROUTE 405
- EXIT ON SEAL BEACH Blvd
- SOUTH ON SEAL BEACH Blvd
- EAST ON WESTMINSTER Ave
- NORTH ON BOLSA CHICA Rd
- CONTINUE NORTH ON VALLEY VIEW St
- WEST ON LAMPSON Ave

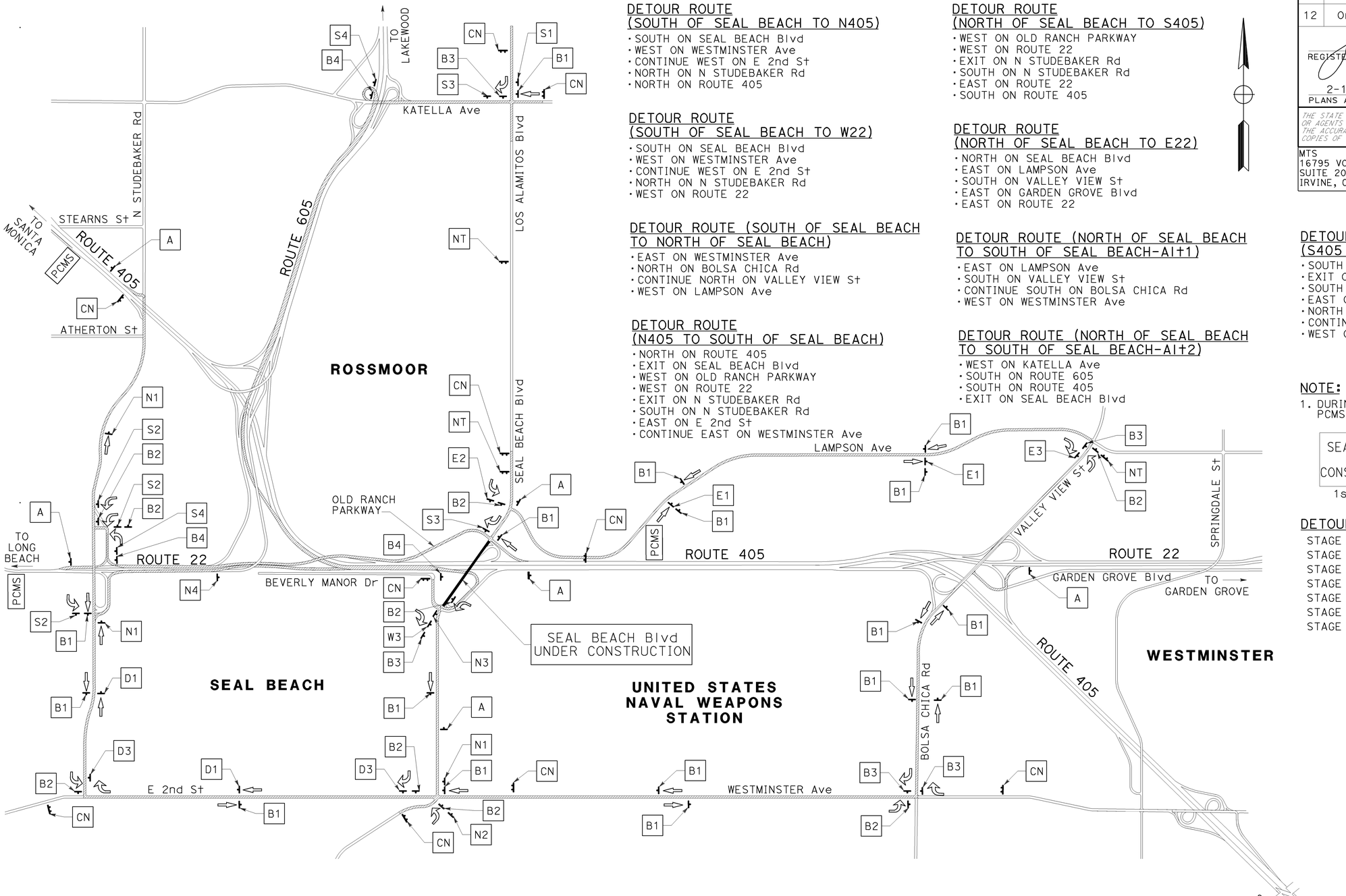
NOTE:

1. DURING THE SEAL BEACH CLOSURE, THE PCMS MESSAGE SHOULD READ:

SEAL BEACH UNDER CONSTRUCTION	→	EXPECT DELAYS
1st FRAME		2nd FRAME

DETOUR STAGES

STAGE 2A
STAGE 2B.1
STAGE 2B.2
STAGE 2B.3
STAGE 2C.1
STAGE 2D.1
STAGE 3E



TRAFFIC HANDLING PLAN DETOUR LAYOUT (SEAL BEACH Blvd UNDER CONSTRUCTION)

NO SCALE

TH-19

THIS PLAN ACCURATE FOR DETOUR LAYOUT 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 => 14:22

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmnguye | DGN FILE => c07163md019.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	920	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

DETOUR ROUTE (N405 TO N405-Alt 1)

- NORTH ON ROUTE 405
- EXIT ON VALLEY VIEW St
- WEST ON GARDEN GROVE Blvd
- SOUTH ON VALLEY VIEW St
- CONTINUE SOUTH ON BOLSA CHICA Rd
- WEST ON WESTMINSTER Ave
- CONTINUE WEST ON E 2nd St
- NORTH ON N STUDEBAKER Rd
- NORTH ON ROUTE 405

DETOUR ROUTE (N405 TO N405-Alt 2)

- NORTH ON ROUTE 405
- EXIT WESTMINSTER Ave
- WEST ON WESTMINSTER Ave
- NORTH ON SPRINGDALE St
- WEST ON KATELLA Ave
- SOUTH ON ROUTE 605
- NORTH ON ROUTE 405

DETOUR ROUTE (W22 TO N405-Alt 1)

- WEST ON ROUTE 22
- EXIT ON VALLEY VIEW St
- NORTH ON VALLEY VIEW St
- WEST ON KATELLA Ave
- SOUTH ON ROUTE 605
- NORTH ON ROUTE 405

DETOUR ROUTE (W22 TO N405-Alt 2)

- WEST ON ROUTE 22
- EXIT ON KNOTT St
- WEST ON GARDEN GROVE Blvd
- NORTH ON KNOTT St
- WEST ON CERRITOS Ave
- CONTINUE WEST ON SPRING St
- SOUTH ON N STUDEBAKER Rd
- NORTH ON ROUTE 405

DETOUR ROUTE (W22 TO W22-Alt 1)

- WEST ON ROUTE 22
- EXIT ON VALLEY VIEW St
- NORTH ON VALLEY VIEW St
- WEST ON KATELLA Ave
- SOUTH ON ROUTE 605
- WEST ON ROUTE 22

DETOUR ROUTE (W22 TO W22-Alt 2)

- WEST ON ROUTE 22
- EXIT ON KNOTT St
- WEST ON GARDEN GROVE Blvd
- NORTH ON KNOTT St
- WEST ON CERRITOS Ave
- CONTINUE WEST ON SPRING St
- SOUTH ON N STUDEBAKER Rd
- WEST ON ROUTE 22

DETOUR ROUTE (N405 TO N605-Alt 1)

- NORTH ON ROUTE 405
- EXIT ON VALLEY VIEW St
- WEST ON GARDEN GROVE Blvd
- SOUTH ON VALLEY VIEW St
- CONTINUE SOUTH ON BOLSA CHICA Rd
- WEST ON WESTMINSTER Ave
- CONTINUE WEST ON E 2nd St
- NORTH ON N STUDEBAKER Rd
- EAST ON WILLOW St
- NORTH ON ROUTE 605

DETOUR ROUTE (N405 TO N605-Alt 2)

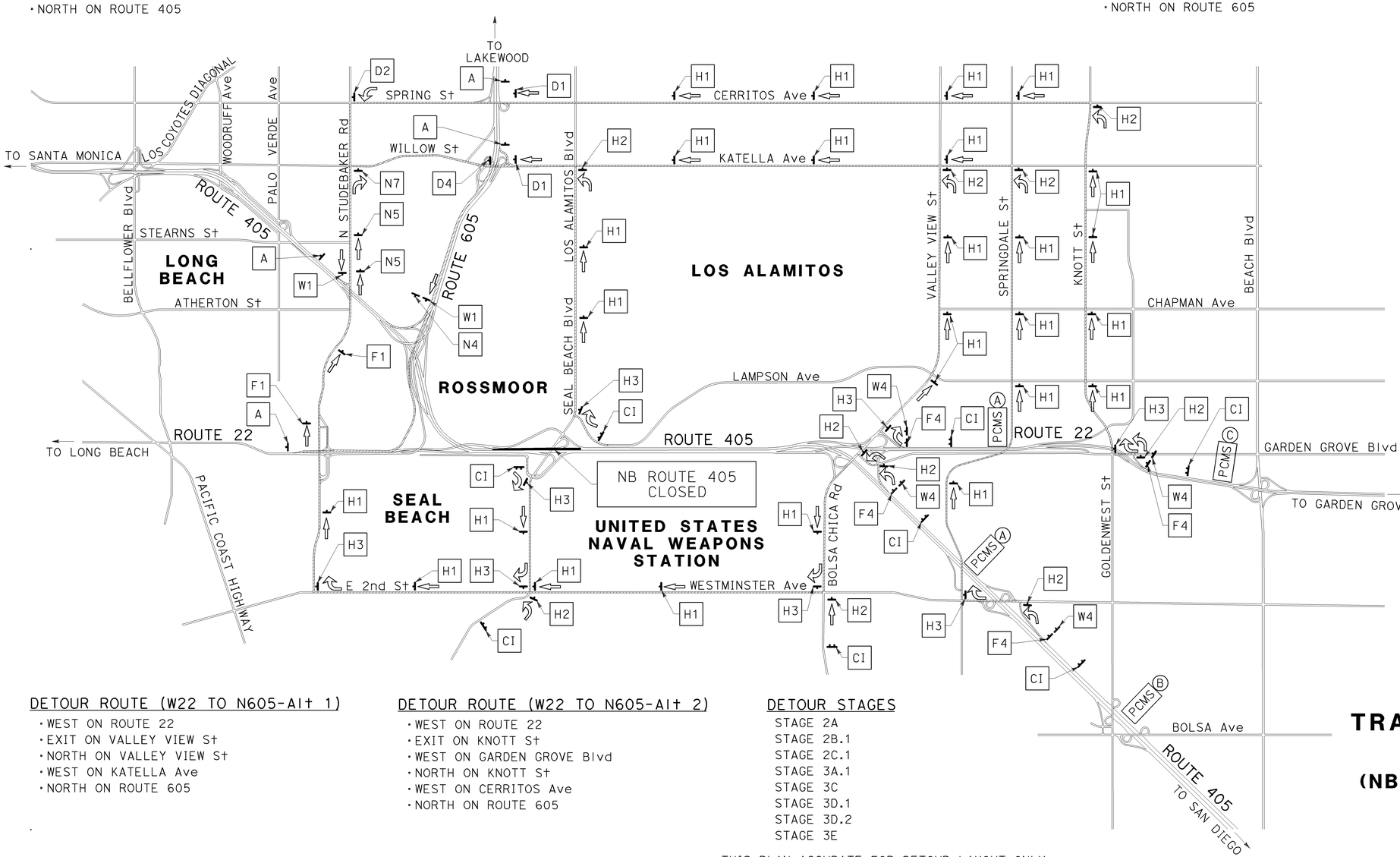
- NORTH ON ROUTE 405
- EXIT WESTMINSTER Ave
- WEST ON WESTMINSTER Ave
- NORTH ON SPRINGDALE St
- EAST ON KATELLA Ave
- NORTH ON ROUTE 605

DETOUR ROUTE (N405 TO W22-Alt 2)

- NORTH ON ROUTE 405
- EXIT WESTMINSTER Ave
- WEST ON WESTMINSTER Ave
- NORTH ON SPRINGDALE St
- WEST ON KATELLA Ave
- SOUTH ON ROUTE 605
- WEST ON ROUTE 22

DETOUR ROUTE (N405 TO W22-Alt 1)

- NORTH ON ROUTE 405
- EXIT ON VALLEY VIEW St
- WEST ON GARDEN GROVE Blvd
- SOUTH ON VALLEY VIEW St
- CONTINUE SOUTH ON BOLSA CHICA Rd
- WEST ON WESTMINSTER Ave
- CONTINUE WEST ON E 2nd St
- NORTH ON N STUDEBAKER Rd
- WEST ON ROUTE 22



NOTES:

1. DURING THE NB ROUTE 405 CLOSURE, THE PCMS MESSAGE AT (A) SHOULD READ:

1st FRAME	2nd FRAME
I-405 FREEWAY CLOSED	USE VALLEY VIEW EXIT

2. DURING THE NB ROUTE 405 CLOSURE, THE PCMS MESSAGE AT (B) SHOULD READ:

1st FRAME	2nd FRAME
I-405 FREEWAY CLOSED	USE WESTMINSTER EXIT

3. DURING THE NB ROUTE 405 CLOSURE, THE PCMS MESSAGE AT (C) SHOULD READ:

1st FRAME	2nd FRAME
I-405 FREEWAY CLOSED	USE KNOTT EXIT

DETOUR ROUTE (W22 TO N605-Alt 1)

- WEST ON ROUTE 22
- EXIT ON VALLEY VIEW St
- NORTH ON VALLEY VIEW St
- WEST ON KATELLA Ave
- NORTH ON ROUTE 605

DETOUR ROUTE (W22 TO N605-Alt 2)

- WEST ON ROUTE 22
- EXIT ON KNOTT St
- WEST ON GARDEN GROVE Blvd
- NORTH ON KNOTT St
- WEST ON CERRITOS Ave
- NORTH ON ROUTE 605

DETOUR STAGES

STAGE 2A
STAGE 2B.1
STAGE 2C.1
STAGE 3A.1
STAGE 3C
STAGE 3D.1
STAGE 3D.2
STAGE 3E

TRAFFIC HANDLING PLAN DETOUR LAYOUT

(NB ROUTE 405 CLOSURE AT SEAL BEACH Blvd)

NO SCALE

TH-20

THIS PLAN ACCURATE FOR DETOUR LAYOUT 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 => 14:22
08-10-09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmnguye
DGN FILE => c07163md020.dgn
CU 12235
EA 071631

DETOUR ROUTE (S405 TO E22-Alt 1)

- SOUTH ON ROUTE 405
- EXIT ON N STUDEBAKER Rd
- SOUTH ON N STUDEBAKER Rd
- EAST ON E 2nd St
- CONTINUE EAST ON WESTMINSTER Ave
- NORTH ON BOLSA CHICA Rd
- EAST ON GARDEN GROVE Blvd
- EAST ON ROUTE 22

DETOUR ROUTE (S405 TO E22-Alt 2)

- SOUTH ON ROUTE 405
- EXIT ON PALO VERDE Ave
- SOUTHEAST ON WOODRUFF Ave
- NORTH ON PALO VERDE Ave
- EAST ON WILLOW St
- CONTINUE EAST ON KATELLA Ave
- SOUTH ON VALLEY VIEW St
- EAST ON GARDEN GROVE Blvd
- EAST ON ROUTE 22

DETOUR ROUTE (S405 TO S405-Alt 1)

- SOUTH ON ROUTE 405
- EXIT ON N STUDEBAKER Rd
- SOUTH ON N STUDEBAKER Rd
- EAST ON E 2nd St
- CONTINUE EAST ON WESTMINSTER Ave
- SOUTH ON ROUTE 405

DETOUR ROUTE (S405 TO S405-Alt 2)

- SOUTH ON ROUTE 405
- EXIT ON PALO VERDE Ave
- SOUTHEAST ON WOODRUFF Ave
- NORTH ON PALO VERDE Ave
- EAST ON WILLOW St
- CONTINUE EAST ON KATELLA Ave
- SOUTH ON VALLEY VIEW St
- SOUTH ON ROUTE 405

DETOUR ROUTE (E22 TO S405)

- EAST ON ROUTE 22
- EXIT ON N STUDEBAKER Rd
- SOUTH ON N STUDEBAKER Rd
- EAST ON E 2nd St
- CONTINUE EAST ON WESTMINSTER Ave
- SOUTH ON ROUTE 405

DETOUR ROUTE (E22 TO E22)

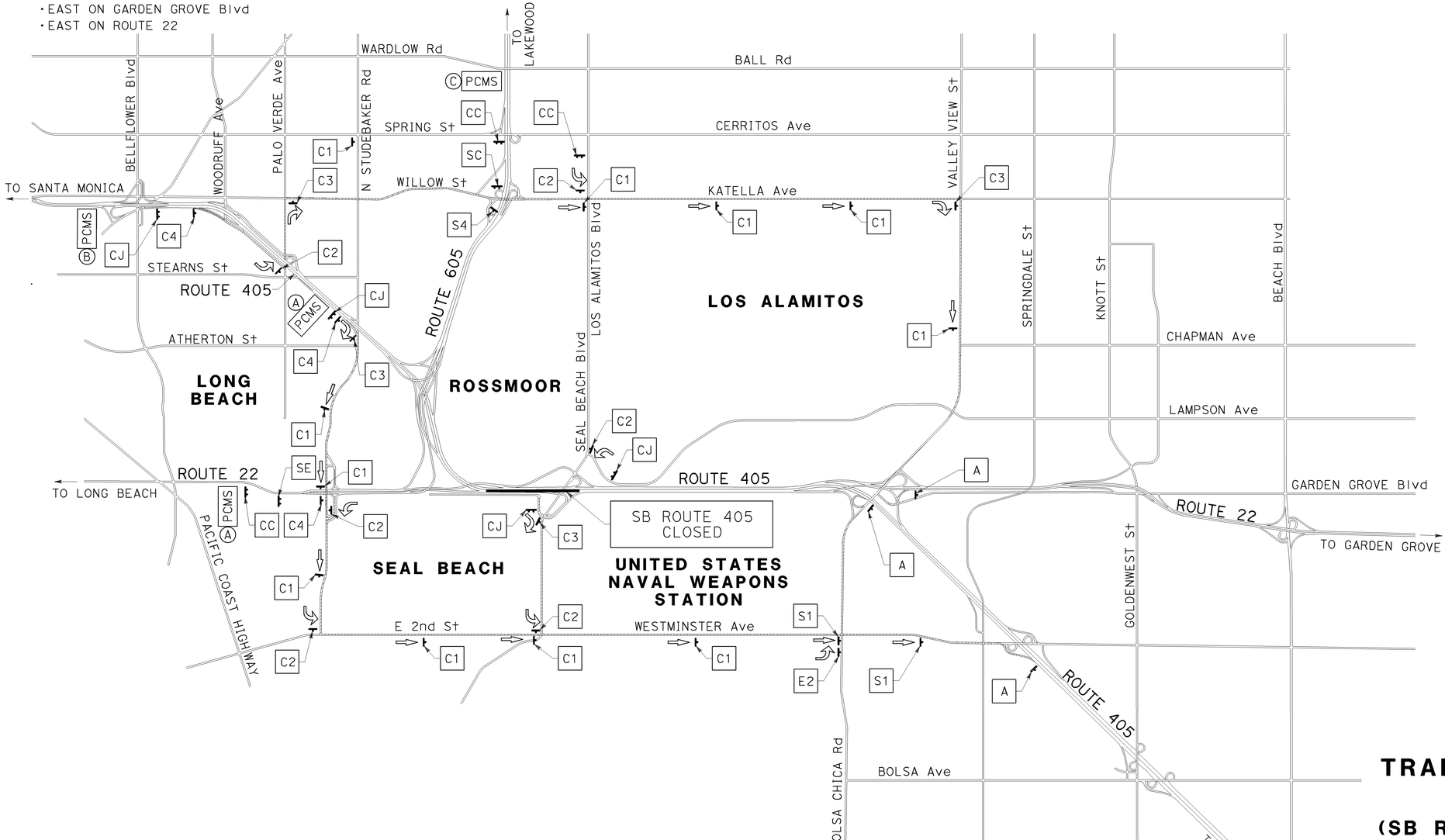
- EAST ON ROUTE 22
- EXIT ON N STUDEBAKER Rd
- SOUTH ON N STUDEBAKER Rd
- EAST ON E 2nd St
- CONTINUE EAST ON WESTMINSTER Ave
- NORTH ON BOLSA CHICA Rd
- EAST ON GARDEN GROVE Blvd
- EAST ON ROUTE 22

DETOUR ROUTE (S605 TO S405)

- SOUTH ON ROUTE 605
- EXIT ON KATELLA Ave
- EAST ON KATELLA Ave
- SOUTH ON VALLEY VIEW St
- CONTINUE SOUTH ON BOLSA CHICA Rd
- SOUTH ON ROUTE 405

DETOUR ROUTE (S605 TO E22)

- SOUTH ON ROUTE 605
- EXIT ON KATELLA Ave
- EAST ON KATELLA Ave
- SOUTH ON VALLEY VIEW St
- EAST ON GARDEN GROVE Blvd
- EAST ON ROUTE 22



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	921	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

NOTES:

1. DURING THE SB ROUTE 405 CLOSURE, THE PCMS MESSAGE AT (A) SHOULD READ:

I-405 FREEWAY CLOSED	→	USE STUDEBAKER EXIT
1st FRAME		2nd FRAME

2. DURING THE SB ROUTE 405 CLOSURE, THE PCMS MESSAGE AT (B) SHOULD READ:

I-405 FREEWAY CLOSED	→	USE PALO VERDE EXIT
1st FRAME		2nd FRAME

3. DURING THE SB ROUTE 405 CLOSURE, THE PCMS MESSAGE AT (C) SHOULD READ:

SB 405 RAMP CLOSED	→	USE KATELLA EXIT
1st FRAME		2nd FRAME

DETOUR STAGES

STAGE 2A
STAGE 2B.1
STAGE 2C.1
STAGE 2C.2
STAGE 2D.1
STAGE 3A.1
STAGE 3A.2
STAGE 3B
STAGE 3C
STAGE 3D.1
STAGE 3D.2
STAGE 3E

TRAFFIC HANDLING PLAN DETOUR LAYOUT

(SB ROUTE 405 CLOSURE AT SEAL BEACH Blvd)

NO SCALE

TH-21

THIS PLAN ACCURATE FOR DETOUR LAYOUT 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 => 14:23
08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmnguye DGN FILE => c07163md021.dgn | CU 12235 | EA 071631

DETOUR ROUTE (N405 TO N405-Alt 1)

- NORTH ON ROUTE 405
- EXIT ON SEAL BEACH Blvd
- NORTH ON SEAL BEACH Blvd
- CONTINUE NORTH ON LOS ALAMITOS Blvd
- WEST ON KATELLA Ave
- CONTINUE WEST ON WILLOW St
- SOUTH ON N STUDEBAKER Rd
- NORTH ON ROUTE 405

DETOUR ROUTE (N405 TO N605-Alt 1)

- NORTH ON ROUTE 405
- EXIT ON SEAL BEACH Blvd
- NORTH ON SEAL BEACH Blvd
- CONTINUE NORTH ON LOS ALAMITOS Blvd
- WEST ON KATELLA Ave
- NORTH ON ROUTE 605

DETOUR ROUTE (N405 TO W22-Alt 1)

- NORTH ON ROUTE 405
- EXIT ON SEAL BEACH Blvd
- NORTH ON SEAL BEACH Blvd
- CONTINUE NORTH ON LOS ALAMITOS Blvd
- WEST ON KATELLA Ave
- CONTINUE WEST ON WILLOW St
- SOUTH ON N STUDEBAKER Rd
- WEST ON ROUTE 22

DETOUR ROUTE (W22 TO N605)

- WEST ON ROUTE 22
- EXIT ON VALLEY VIEW St
- NORTH ON VALLEY VIEW St
- WEST ON CERRITOS Ave
- NORTH ON ROUTE 605

DETOUR ROUTE (N405 TO N405-Alt 2)

- NORTH ON ROUTE 405
- EXIT ON VALLEY VIEW St
- WEST ON GARDEN GROVE Blvd
- SOUTH ON VALLEY VIEW St
- WEST ON WESTMINSTER Ave
- CONTINUE WEST ON E 2nd St
- NORTH ON N STUDEBAKER Rd
- NORTH ON ROUTE 405

DETOUR ROUTE (N405 TO N605-Alt 2)

- NORTH ON ROUTE 405
- EXIT ON VALLEY VIEW St
- WEST ON GARDEN GROVE Blvd
- NORTH ON VALLEY VIEW St
- WEST ON CERRITOS Ave
- NORTH ON ROUTE 605

DETOUR ROUTE (N405 TO W22-Alt 2)

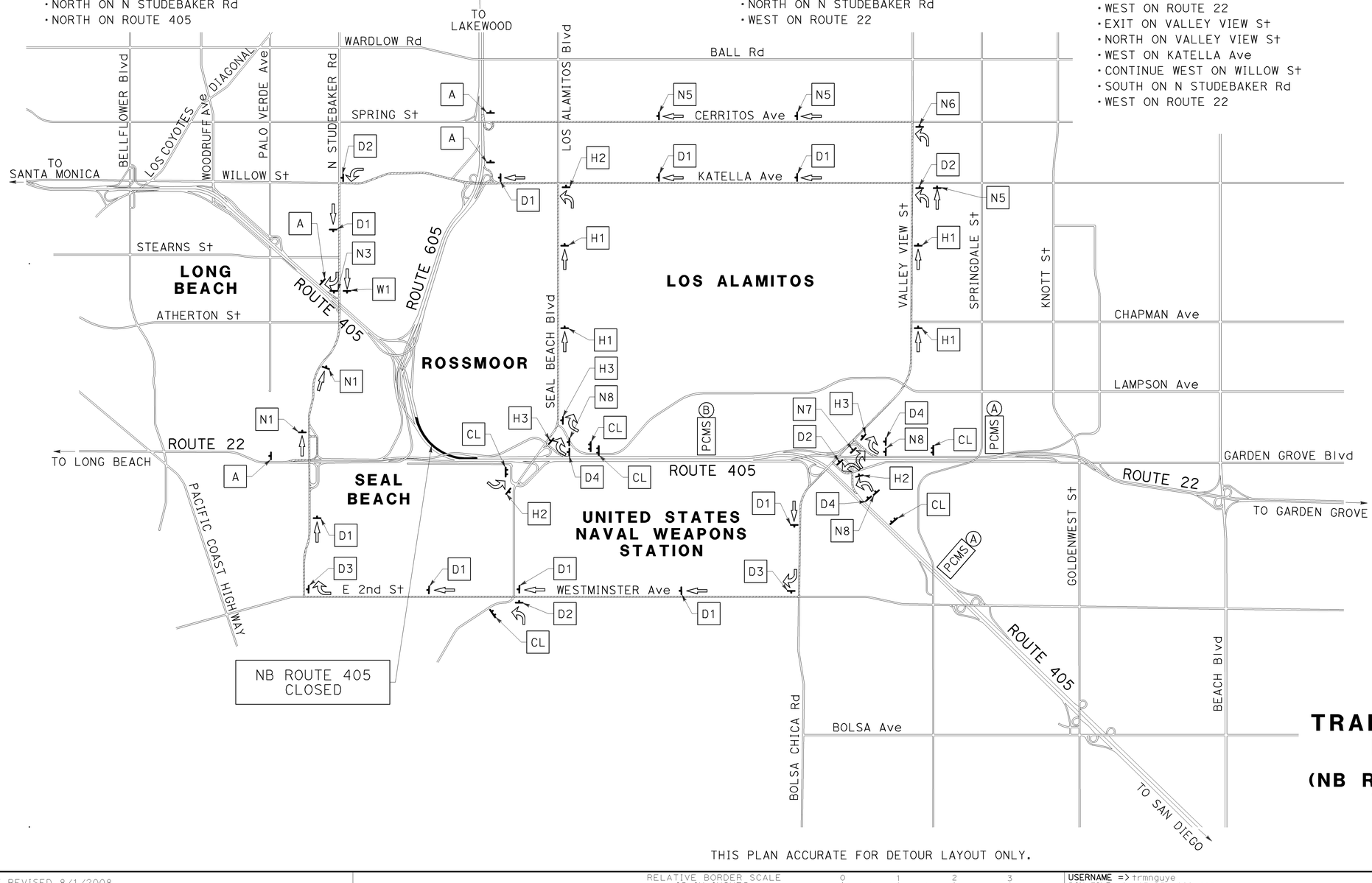
- NORTH ON ROUTE 405
- EXIT ON VALLEY VIEW St
- WEST ON GARDEN GROVE Blvd
- SOUTH ON VALLEY VIEW St
- WEST ON WESTMINSTER Ave
- CONTINUE WEST ON E 2nd St
- NORTH ON N STUDEBAKER Rd
- WEST ON ROUTE 22

DETOUR ROUTE (W22 TO N405)

- WEST ON ROUTE 22
- EXIT ON VALLEY VIEW St
- NORTH ON VALLEY VIEW St
- WEST ON KATELLA Ave
- CONTINUE WEST ON WILLOW St
- SOUTH ON N STUDEBAKER Rd
- NORTH ON ROUTE 405

DETOUR ROUTE (W22 TO W22)

- WEST ON ROUTE 22
- EXIT ON VALLEY VIEW St
- NORTH ON VALLEY VIEW St
- WEST ON KATELLA Ave
- CONTINUE WEST ON WILLOW St
- SOUTH ON N STUDEBAKER Rd
- WEST ON ROUTE 22



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	922	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

NOTES:

1. DURING THE NB ROUTE 405 CLOSURE, THE PCMS MESSAGE AT (A) SHOULD READ:

1st FRAME	2nd FRAME
I-405 FREEWAY CLOSED	USE VALLEY VIEW EXIT

2. DURING THE NB ROUTE 405 CLOSURE, THE PCMS MESSAGE AT (B) SHOULD READ:

1st FRAME	2nd FRAME
I-405 FREEWAY CLOSED	USE SEAL BEACH EXIT

DETOUR STAGES

STAGE 1A.1
STAGE 1A.2
STAGE 1A.3
STAGE 1B.1
STAGE 2A
STAGE 3E

TRAFFIC HANDLING PLAN DETOUR LAYOUT

(NB ROUTE 405 CLOSURE AT 7th St CONNECTOR)

NO SCALE

TH-22

THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY.

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 14:23
08-10-09

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

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmnguye | DGN FILE => c07163md022.dgn | CU 12235 | EA 071631

DETOUR ROUTE (S405 TO S405-Alt 1)

- SOUTH ON ROUTE 405
- EXIT ON N STUDEBAKER Rd
- SOUTH ON N STUDEBAKER Rd
- EAST ON E 2nd St
- CONTINUE EAST ON WESTMINSTER Ave
- NORTH ON SEAL BEACH Blvd
- SOUTH ON ROUTE 405

DETOUR ROUTE (S405 TO S405-Alt 2)

- SOUTH ON ROUTE 405
- EXIT ON WOODRUFF Ave
- SOUTHEAST ON WOODRUFF Ave
- NORTH ON PALO VERDE Ave
- EAST ON WILLOW St
- CONTINUE EAST ON KATELLA Ave
- SOUTH ON LOS ALAMITOS Blvd
- CONTINUE SOUTH ON SEAL BEACH Blvd
- SOUTH ON ROUTE 405

DETOUR ROUTE (S605 TO S405-Alt 1)

- SOUTH ON ROUTE 605
- EXIT ON KATELLA Ave
- EAST ON KATELLA Ave
- SOUTH ON LOS ALAMITOS Blvd
- CONTINUE SOUTH ON SEAL BEACH Blvd
- SOUTH ON ROUTE 405

DETOUR ROUTE (S605 TO S405-Alt 2)

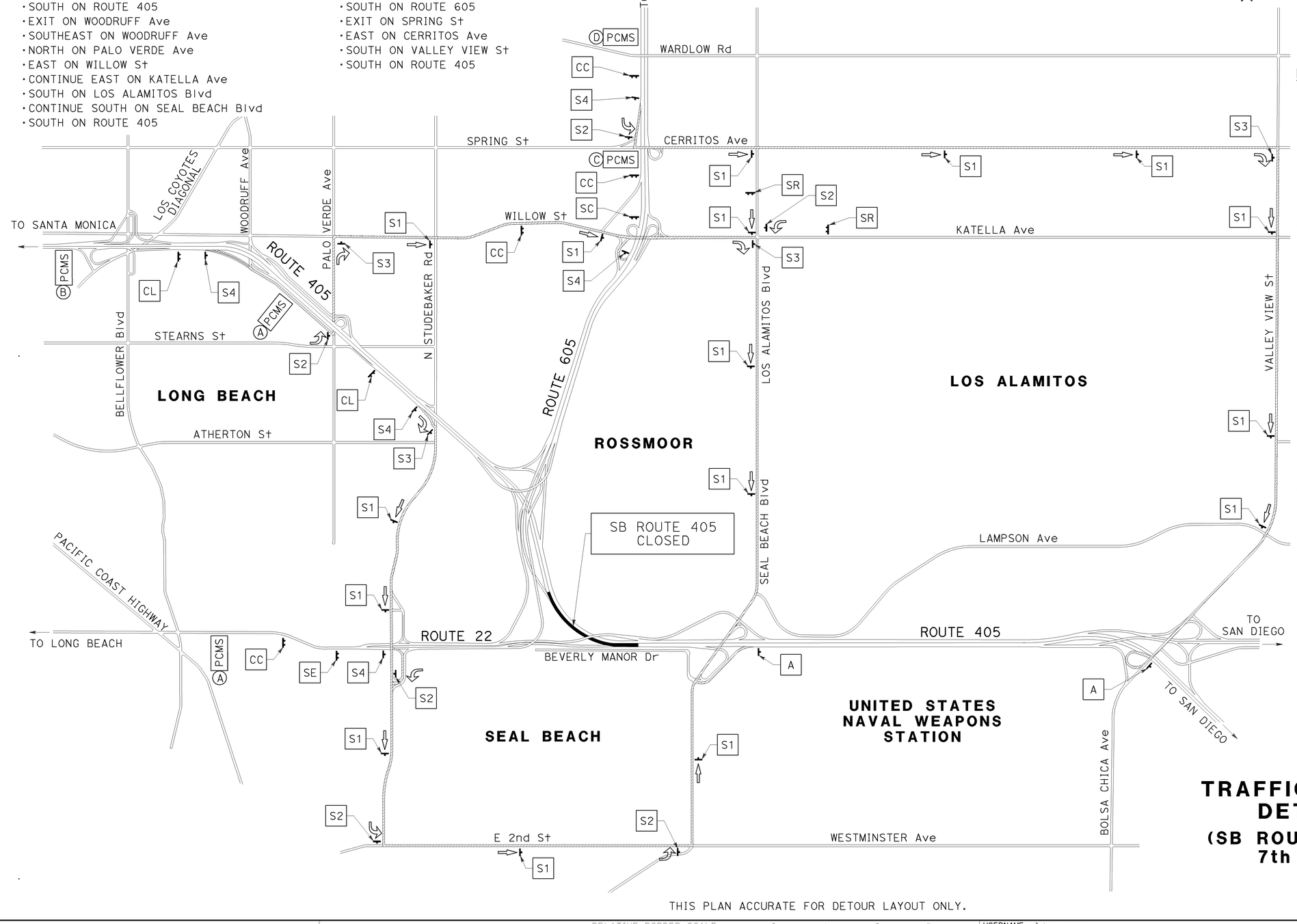
- SOUTH ON ROUTE 605
- EXIT ON SPRING St
- EAST ON CERRITOS Ave
- SOUTH ON VALLEY VIEW St
- SOUTH ON ROUTE 405

DETOUR ROUTE (E22 TO S405)

- EAST ON ROUTE 22
- EXIT ON N STUDEBAKER Rd
- SOUTH ON N STUDEBAKER Rd
- EAST ON E 2nd St
- CONTINUE EAST ON WESTMINSTER Ave
- NORTH ON SEAL BEACH Blvd
- SOUTH ON ROUTE 405

DETOUR STAGES

STAGE 1A.1
STAGE 1A.2
STAGE 1B.1
STAGE 2A
STAGE 2C.1
STAGE 3E



NOTES:

1. DURING THE NB ROUTE 605 FREEWAY CLOSURE, THE PCMS MESSAGE AT (A) SHOULD READ:

1st FRAME	2nd FRAME
I-405 FREEWAY CLOSED	USE STUDEBAKER EXIT

2. DURING THE NB ROUTE 605 FREEWAY CLOSURE, THE PCMS MESSAGE AT (B) SHOULD READ:

1st FRAME	2nd FRAME
I-405 SB RAMP CLOSED	USE PALO VERDE EXIT

3. DURING THE NB ROUTE 605 FREEWAY CLOSURE, THE PCMS MESSAGE AT (C) SHOULD READ:

1st FRAME	2nd FRAME
I-405 SB RAMP CLOSED	USE KATELLA EXIT

4. DURING THE NB ROUTE 605 FREEWAY CLOSURE, THE PCMS MESSAGE AT (D) SHOULD READ:

1st FRAME	2nd FRAME
I-405 SB RAMP CLOSED	USE SPRING EXIT

TRAFFIC HANDLING PLAN
DETOUR LAYOUT
(SB ROUTE 405 CLOSURE AT 7th St CONNECTOR)

NO SCALE

TH-23

THIS PLAN ACCURATE FOR DETOUR LAYOUT 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	923	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

DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 14:23
LAST REVISION => 08-10-09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmnguye
DGN FILE => c07163md023.dgn
CU 12235
EA 071631

DETOUR ROUTE (N405 TO N605-Alt 1)

- NORTH ON ROUTE 405
- EXIT ON SEAL BEACH Blvd
- NORTH ON SEAL BEACH Blvd
- CONTINUE NORTH ON LOS ALAMITOS Blvd
- WEST ON KATELLA Ave
- NORTH ON ROUTE 605

DETOUR ROUTE (N405 TO N605-Alt 2)

- NORTH ON ROUTE 405
- EXIT ON VALLEY VIEW St
- WEST ON GARDEN GROVE Blvd
- SOUTH ON VALLEY VIEW St
- WEST ON WESTMINSTER Ave
- CONTINUE WEST ON E 2nd St
- NORTH ON N STUDEBAKER Rd
- EAST ON WILLOW St
- NORTH ON ROUTE 605

DETOUR ROUTE (N405 TO N405-Alt 1)

- NORTH ON ROUTE 405
- EXIT ON SEAL BEACH Blvd
- NORTH ON SEAL BEACH Blvd
- CONTINUE NORTH ON LOS ALAMITOS Blvd
- WEST ON KATELLA Ave
- CONTINUE WEST ON WILLOW St
- SOUTH ON N STUDEBAKER Rd
- NORTH ON ROUTE 405

DETOUR ROUTE (N405 TO N405-Alt 2)

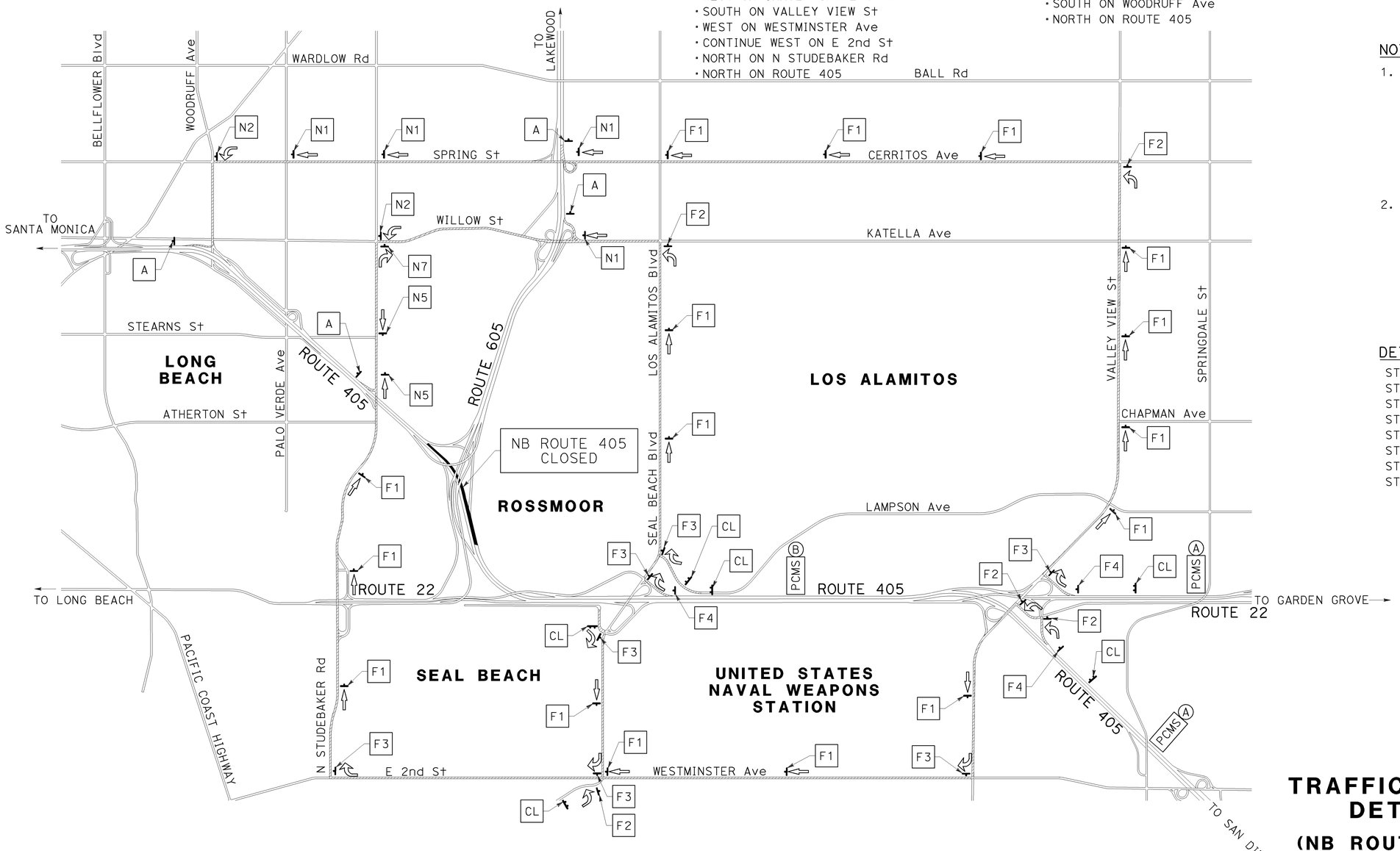
- NORTH ON ROUTE 405
- EXIT ON VALLEY VIEW St
- WEST ON GARDEN GROVE Blvd
- SOUTH ON VALLEY VIEW St
- WEST ON WESTMINSTER Ave
- CONTINUE WEST ON E 2nd St
- NORTH ON N STUDEBAKER Rd
- NORTH ON ROUTE 405

DETOUR ROUTE (W22 TO N605)

- WEST ON ROUTE 22
- EXIT ON VALLEY VIEW St
- NORTH ON VALLEY VIEW St
- WEST ON CERRITOS Ave
- NORTH ON ROUTE 605

DETOUR ROUTE (W22 TO N405)

- WEST ON ROUTE 22
- EXIT ON VALLEY VIEW St
- NORTH ON VALLEY VIEW St
- WEST ON CERRITOS Ave
- CONTINUE WEST ON SPRING St
- SOUTH ON WOODRUFF Ave
- NORTH ON ROUTE 405



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	924	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

NOTES:

1. DURING THE NB ROUTE 405 CLOSURE, THE PCMS MESSAGE AT (A) SHOULD READ:

1st FRAME	2nd FRAME
I-405 FREEWAY CLOSED	USE VALLEY VIEW EXIT

2. DURING THE NB ROUTE 405 CLOSURE, THE PCMS MESSAGE AT (B) SHOULD READ:

1st FRAME	2nd FRAME
I-405 FREEWAY CLOSED	USE SEAL BEACH EXIT

DETOUR STAGES

STAGE 1A.2
STAGE 2A
STAGE 2C.1
STAGE 2D.1
STAGE 3A.1
STAGE 3B
STAGE 3C
STAGE 3E

TRAFFIC HANDLING PLAN DETOUR LAYOUT

(NB ROUTE 405 CLOSURE AT EB 22 CONNECTORS)

NO SCALE

TH-24

THIS PLAN ACCURATE FOR DETOUR LAYOUT 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: 08-10-09 — DATE PLOTTED => 03-FEB-2010 — TIME PLOTTED => 14:23

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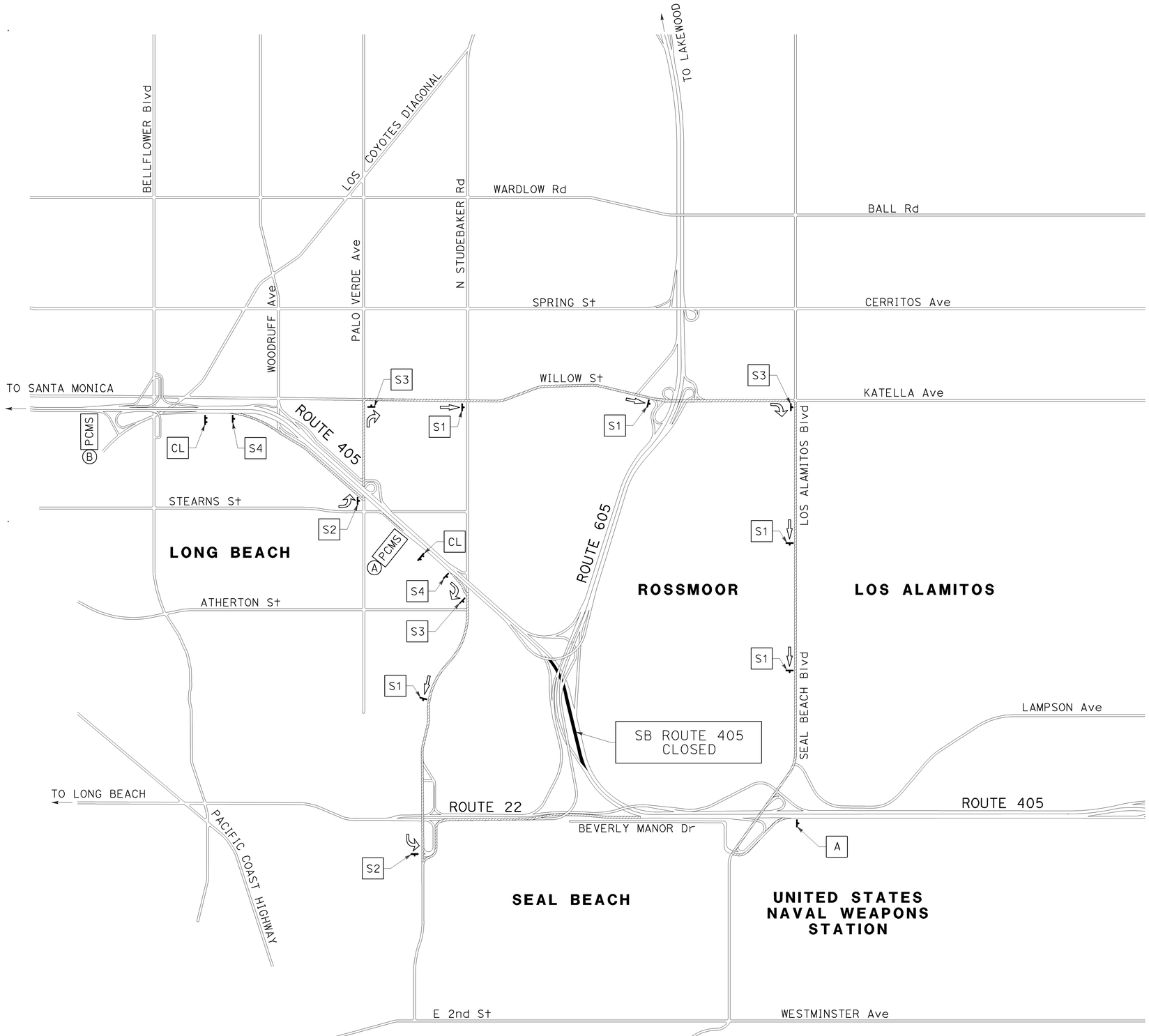
USERNAME => trmnguye
DGN FILE => c07163md024.dgn

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	925	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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MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

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

NOTES:

1. DURING THE NB ROUTE 605 FREEWAY CLOSURE, THE PCMS MESSAGE AT (A) SHOULD READ:

1st FRAME	2nd FRAME
I-405 FREEWAY CLOSED	USE STUDEBAKER EXIT

2. DURING THE NB ROUTE 605 FREEWAY CLOSURE, THE PCMS MESSAGE AT (B) SHOULD READ:

1st FRAME	2nd FRAME
I-405 FREEWAY CLOSED	USE PALO VERDE EXIT

DETOUR ROUTE (S405 TO S405-Alt 1)

- SOUTH ON ROUTE 405
- EXIT ON N STUDEBAKER Rd
- SOUTH ON N STUDEBAKER Rd
- EAST ON ROUTE 22
- SOUTH ON ROUTE 405

DETOUR ROUTE (S405 TO S405-Alt 2)

- SOUTH ON ROUTE 405
- EXIT ON WOODRUFF Ave
- SOUTHEAST ON WOODRUFF Ave
- NORTH ON PALO VERDE Ave
- EAST ON WILLOW St
- CONTINUE EAST ON KATELLA Ave
- SOUTH ON LOS ALAMITOS Blvd
- CONTINUE SOUTH ON SEAL BEACH Blvd
- SOUTH ON ROUTE 405

DETOUR STAGES

STAGE 1A.2
STAGE 2A
STAGE 2C.1
STAGE 2D.1
STAGE 3A.1
STAGE 3B
STAGE 3C
STAGE 3E

TRAFFIC HANDLING PLAN DETOUR LAYOUT

(SB ROUTE 405 CLOSURE AT EB 22 CONNECTORS)

NO SCALE

TH-25

THIS PLAN ACCURATE FOR DETOUR LAYOUT 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
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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	926	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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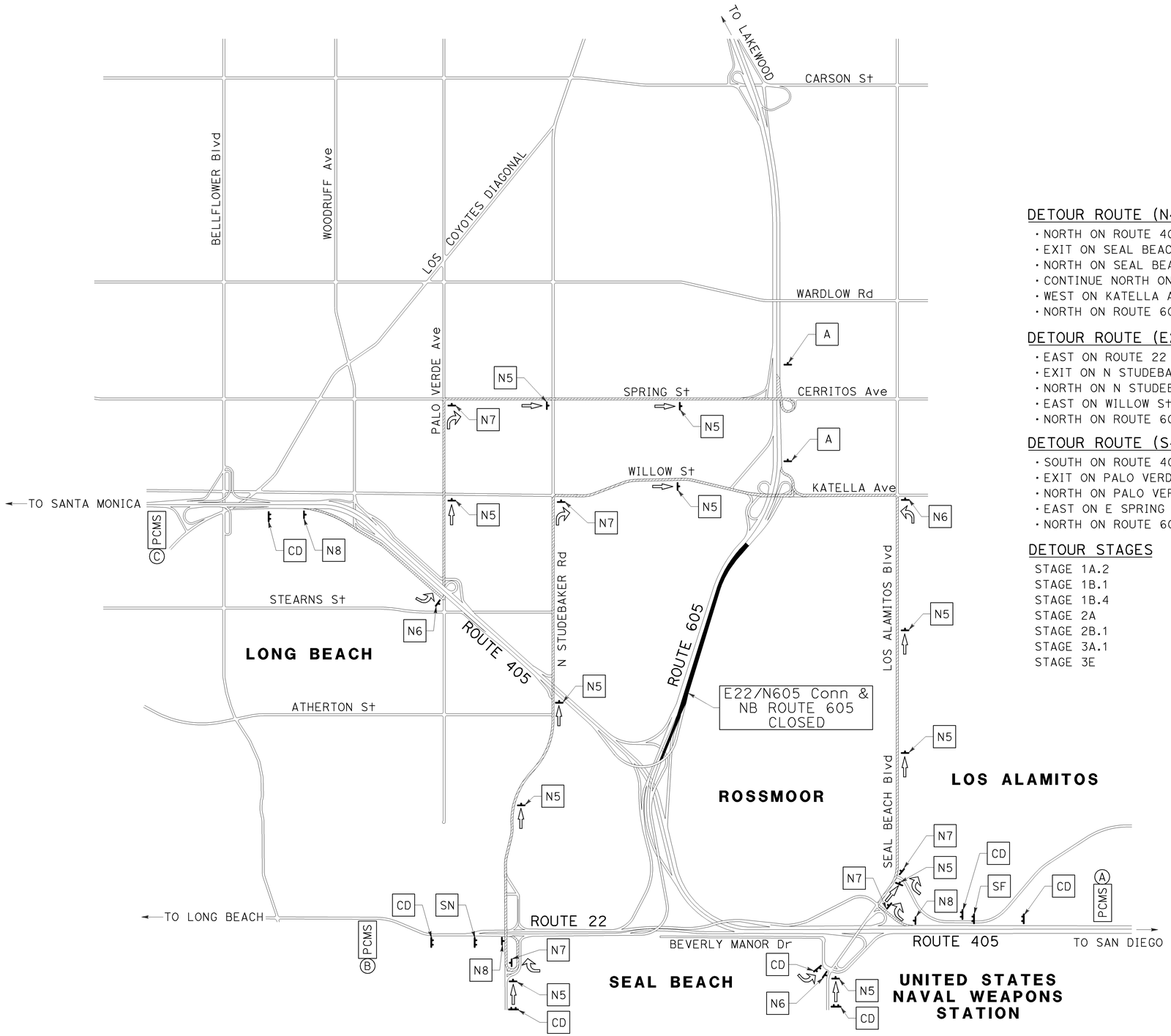
MTS
16795 VON KARMAN AVE
SUITE 205
IRVINE, CA 92606

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



DETOUR ROUTE (N405 TO N605)

- NORTH ON ROUTE 405
- EXIT ON SEAL BEACH Blvd
- NORTH ON SEAL BEACH Blvd
- CONTINUE NORTH ON LOS ALAMITOS Blvd
- WEST ON KATELLA Ave
- NORTH ON ROUTE 605

DETOUR ROUTE (E22 TO N605)

- EAST ON ROUTE 22
- EXIT ON N STUDEBAKER Rd
- NORTH ON N STUDEBAKER Rd
- EAST ON WILLOW St
- NORTH ON ROUTE 605

DETOUR ROUTE (S405 TO N605)

- SOUTH ON ROUTE 405
- EXIT ON PALO VERDE Ave
- NORTH ON PALO VERDE Ave
- EAST ON E SPRING St
- NORTH ON ROUTE 605

DETOUR STAGES

STAGE 1A.2
STAGE 1B.1
STAGE 1B.4
STAGE 2A
STAGE 2B.1
STAGE 3A.1
STAGE 3E

NOTES:

1. DURING THE NB ROUTE 605 FREEWAY CLOSURE, THE PCMS MESSAGE AT (A) SHOULD READ:

I-605 RAMP CLOSED	→	USE SEAL BEACH EXIT
1st FRAME		2nd FRAME

2. DURING THE NB ROUTE 605 FREEWAY CLOSURE, THE PCMS MESSAGE AT (B) SHOULD READ:

I-605 RAMP CLOSED	→	USE STUDEBAKER EXIT
1st FRAME		2nd FRAME

3. DURING THE NB ROUTE 605 FREEWAY CLOSURE, THE PCMS MESSAGE AT (C) SHOULD READ:

I-605 RAMP CLOSED	→	USE PALO VERDE EXIT
1st FRAME		2nd FRAME

TRAFFIC HANDLING PLAN DETOUR LAYOUT
(EB ROUTE 22 TO NB 605 CONNECTOR AND NB ROUTE 605 CLOSURE)

NO SCALE

TH-26

THIS PLAN ACCURATE FOR DETOUR LAYOUT 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 => 14:23

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	927	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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DETOUR ROUTE (S605 TO N405-Alt 1)

- SOUTH ON ROUTE 605
- EXIT ON WILLOW St
- WEST ON WILLOW St
- SOUTH ON N STUDEBAKER Rd
- NORTH ON ROUTE 405

DETOUR ROUTE (S605 TO S405-Alt 1)

- SOUTH ON ROUTE 605
- EXIT ON KATELLA Ave
- EAST ON KATELLA Ave
- SOUTH ON LOS ALAMITOS Blvd
- CONTINUE SOUTH ON SEAL BEACH Blvd
- SOUTH ON ROUTE 405

DETOUR ROUTE (S605 TO W22-Alt 1)

- SOUTH ON ROUTE 605
- EXIT ON WILLOW St
- WEST ON WILLOW St
- SOUTH ON N STUDEBAKER Rd
- WEST ON ROUTE 22

DETOUR ROUTE (S605 TO N405-Alt 2)

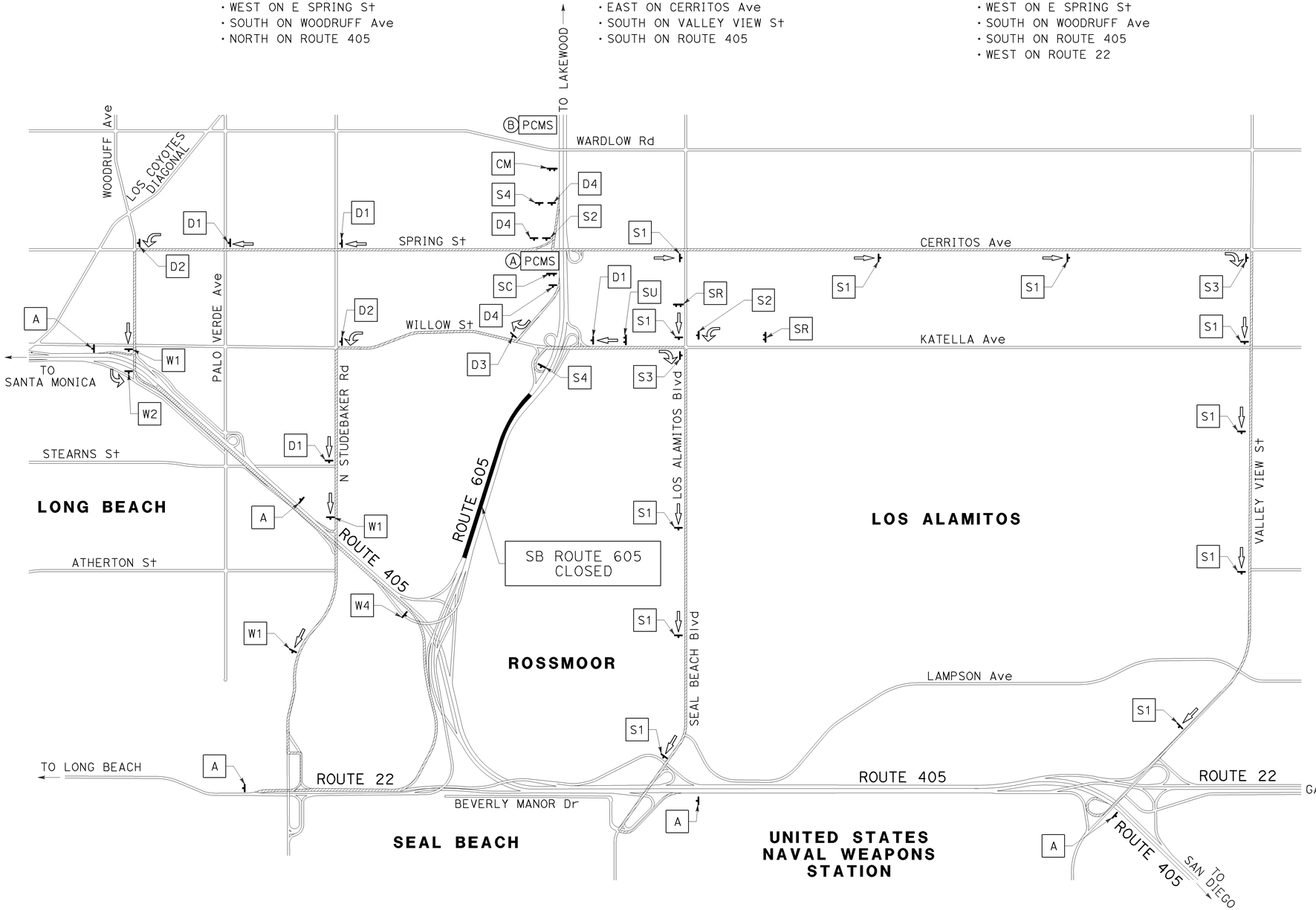
- SOUTH ON ROUTE 605
- EXIT ON SPRING St
- WEST ON E SPRING St
- SOUTH ON WOODRUFF Ave
- NORTH ON ROUTE 405

DETOUR ROUTE (S605 TO S405-Alt 2)

- SOUTH ON ROUTE 605
- EXIT ON SPRING St
- EAST ON CERRITOS Ave
- SOUTH ON VALLEY VIEW St
- SOUTH ON ROUTE 405

DETOUR ROUTE (S605 TO W22-Alt 2)

- SOUTH ON ROUTE 605
- EXIT ON SPRING St
- WEST ON E SPRING St
- SOUTH ON WOODRUFF Ave
- SOUTH ON ROUTE 405
- WEST ON ROUTE 22



NOTES:

1. DURING THE SB ROUTE 605 FREEWAY CLOSURE, THE PCMS MESSAGE AT (A) SHOULD READ:

1st FRAME	2nd FRAME
I-605 FREEWAY CLOSED	DETOUR AVAILABLE

2. DURING THE SB ROUTE 605 FREEWAY CLOSURE, THE PCMS MESSAGE AT (B) SHOULD READ:

1st FRAME	2nd FRAME
I-605 FREEWAY CLOSED	USE SPRING EXIT

DETOUR STAGES

STAGE 1B.1
STAGE 2A
STAGE 3E

TRAFFIC HANDLING PLAN DETOUR LAYOUT

(SB ROUTE 605 CLOSURE)

NO SCALE

TH-27

THIS PLAN ACCURATE FOR DETOUR LAYOUT 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
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LAST REVISION | DATE PLOTTED => 03-FEB-2010
08-10-09 | TIME PLOTTED => 14:23

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmnguye
DGN FILE => c07163md027.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	928	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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NOTE:

1. DURING THE NB KATELLA Ave AND WILLOW St OFF-RAMP CLOSURE, THE PCMS MESSAGE SHOULD READ:

KATELLA WILLOW EXIT CLOSED	→	USE CARSON EXIT
1st FRAME		2nd FRAME

DETOUR ROUTE (N605 TO KATELLA Ave)

- NORTH ON ROUTE 605
- EXIT ON CARSON St
- EAST ON CARSON St
- SOUTH ON NORWALK Blvd
- CONTINUE SOUTH ON LOS ALAMITOS Blvd

DETOUR ROUTE (N605 TO WILLOW St)

- NORTH ON ROUTE 605
- EXIT ON CARSON St
- EAST ON CARSON St
- SOUTH ON NORWALK Blvd
- CONTINUE SOUTH ON LOS ALAMITOS Blvd
- WEST ON KATELLA Ave

DETOUR STAGE

STAGE 3E

TRAFFIC HANDLING PLAN DETOUR LAYOUT

(NB KATELLA Ave AND WILLOW St OFF-RAMP CLOSURES)

NO SCALE

TH-28

THIS PLAN ACCURATE FOR DETOUR LAYOUT 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
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LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 14:23
08-10-09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmnguye
DGN FILE => c07163md028.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	929	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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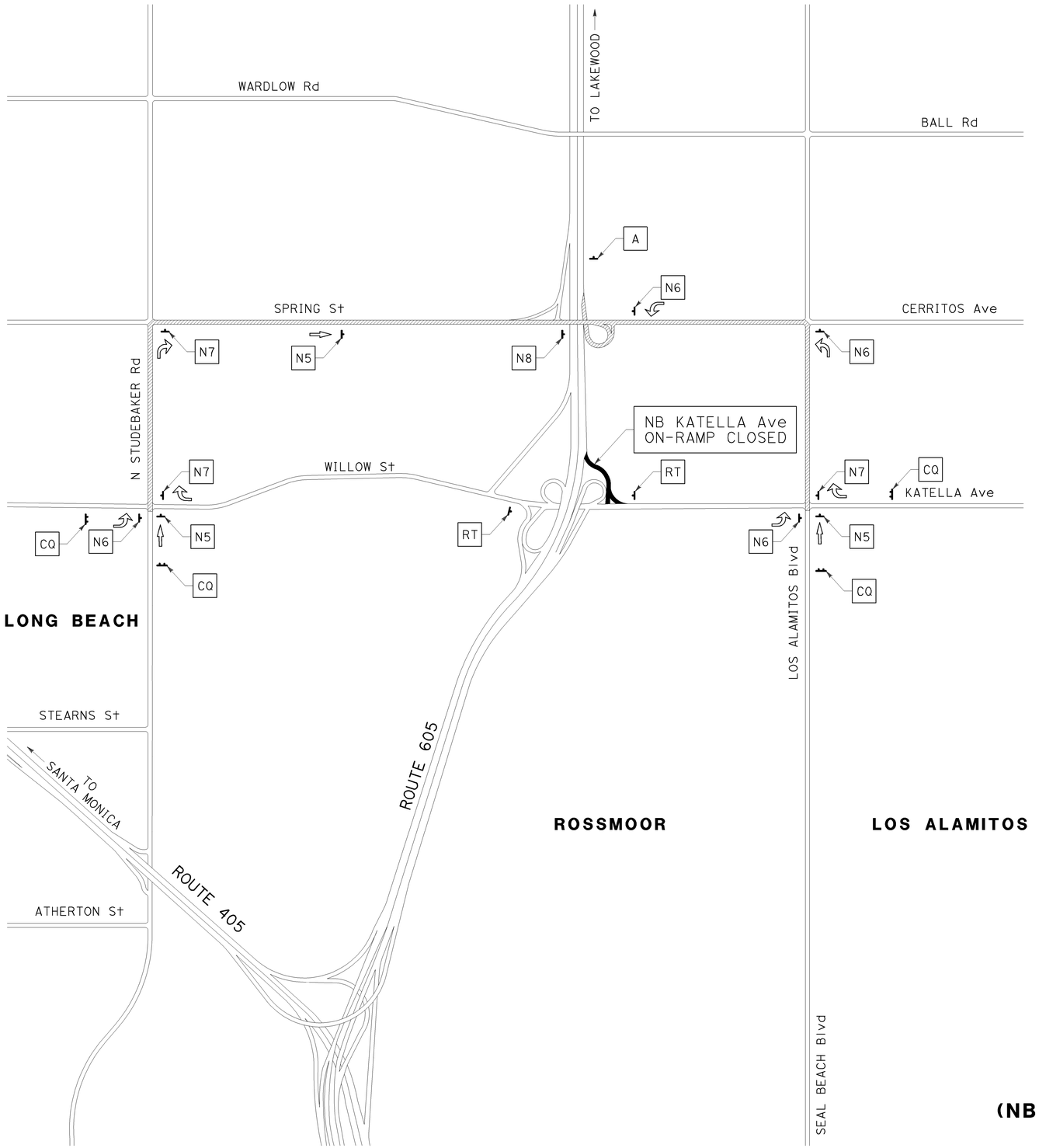

DETOUR ROUTE (EAST OF ROUTE 605 TO N605)

- NORTH ON LOS ALAMITOS Blvd
- WEST ON CERRITOS Ave
- NORTH ON ROUTE 605

DETOUR ROUTE (WEST OF ROUTE 605 TO N605)

- NORTH ON N STUDEBAKER Rd
- EAST ON SPRING St
- NORTH ON ROUTE 605

DETOUR STAGE

STAGE 3E

TRAFFIC HANDLING PLAN DETOUR LAYOUT

(NB KATELLA Ave ON-RAMP CLOSURE)

NO SCALE

TH-29

THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY.

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

CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

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LAST REVISION: DATE PLOTTED => 03-FEB-2010
08-10-09 TIME PLOTTED => 14:24

BORDER LAST REVISED 8/1/2008

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USERNAME => trmnguye
DGN FILE => c071163md029.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	930	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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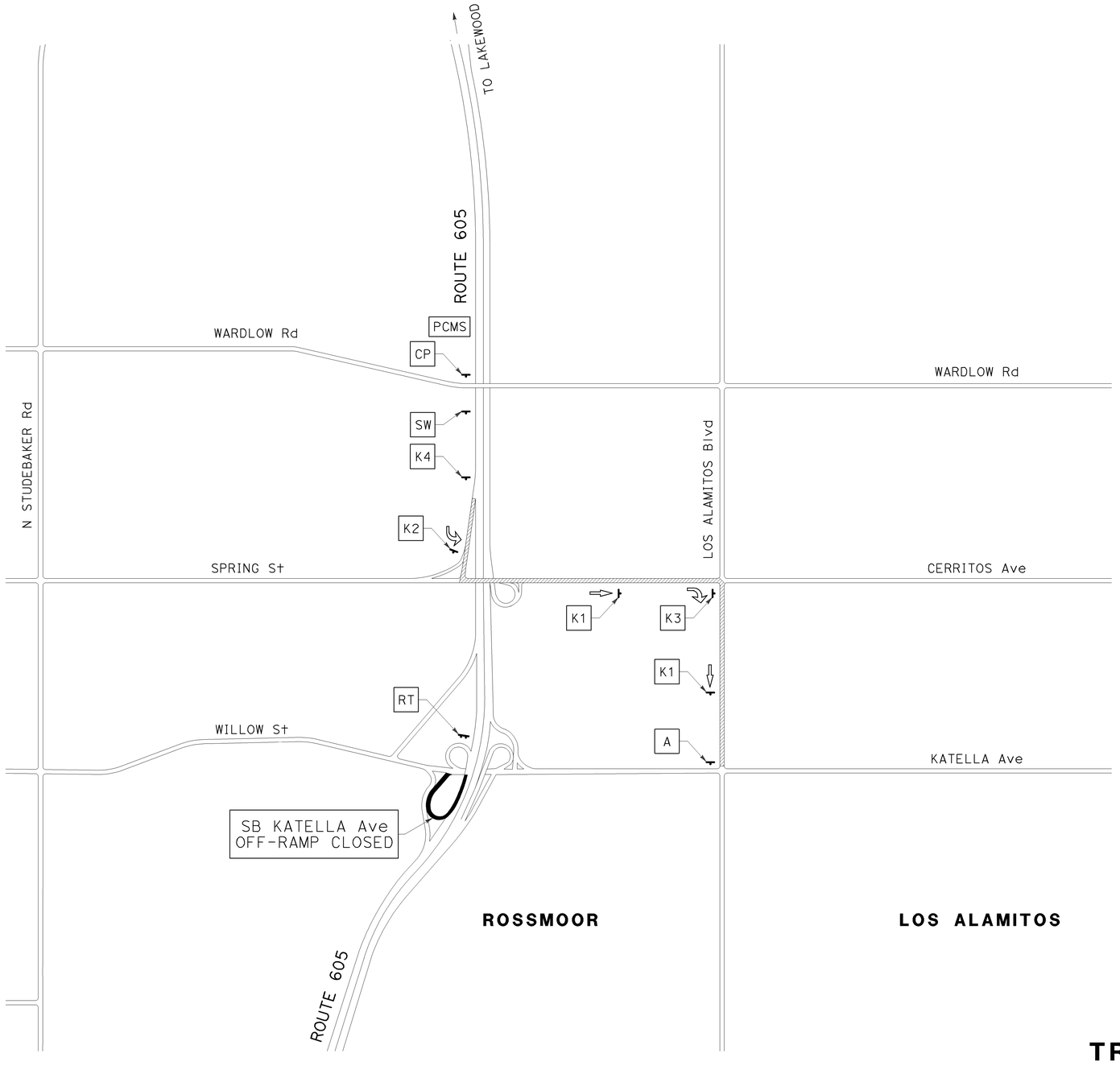
ORANGE, CA 92863-1584



NOTE:

1. DURING THE SB KATELLA Ave OFF-RAMP CLOSURE, THE PCMS MESSAGE SHOULD READ:

KATELLA EXIT CLOSED	→	USE CERRITOS EXIT
1st FRAME		2nd FRAME

DETOUR ROUTE (S605 TO KATELLA Ave)

- SOUTH ON ROUTE 605
- EXIT ON CERRITOS Ave
- EAST ON CERRITOS Ave
- SOUTH ON LOS ALAMITOS Blvd

DETOUR STAGE

STAGE 3E

TRAFFIC HANDLING PLAN
DETOUR LAYOUT
(SB KATELLA Ave OFF-RAMP CLOSURE)

NO SCALE

TH-30

THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY.

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
TIME PLOTTED => 14:24
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	931	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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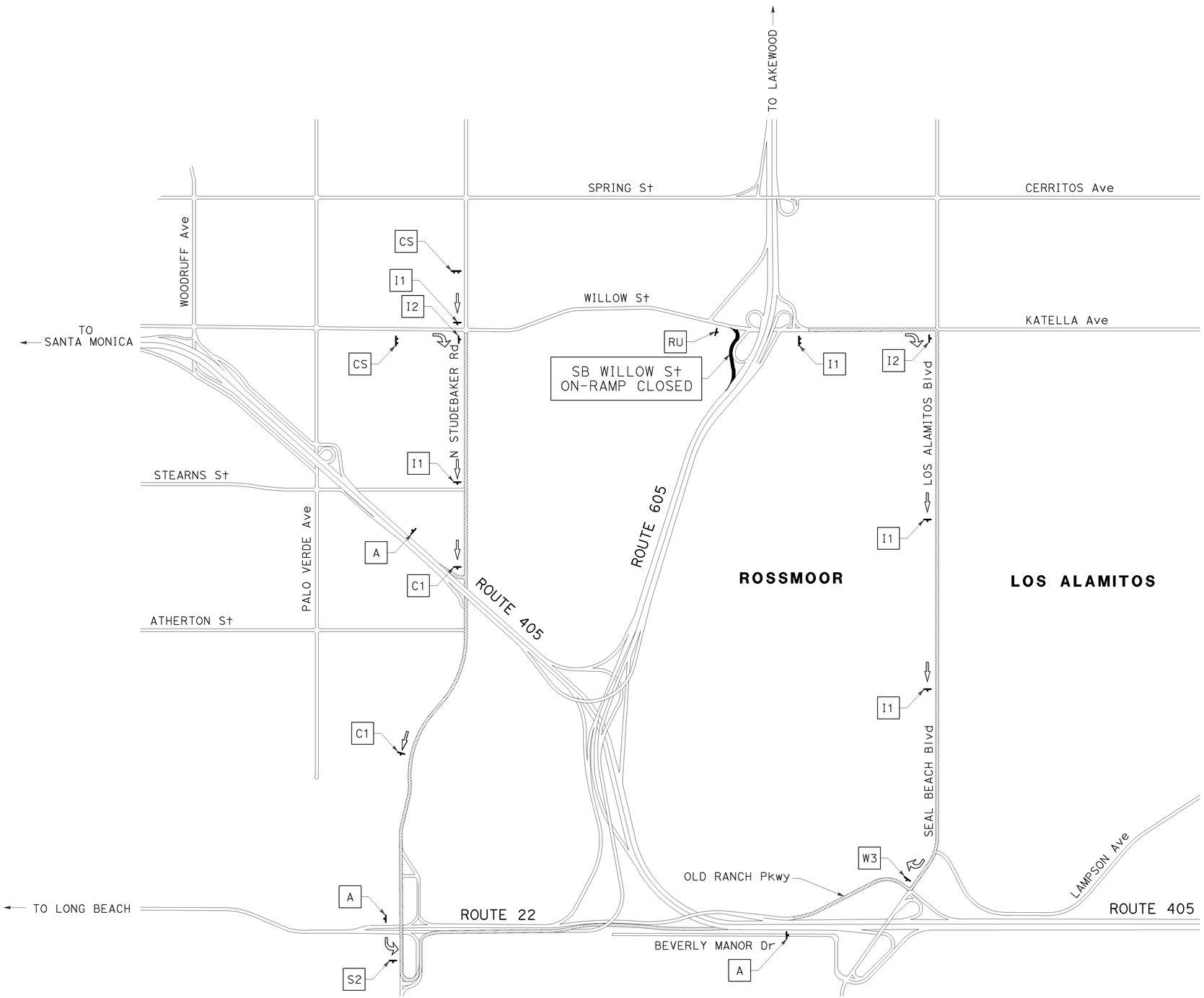

DETOUR ROUTE (WEST OF ROUTE 605 TO N405)

- SOUTH ON N STUDEBAKER Rd
- NORTH ON ROUTE 405

DETOUR ROUTE (WEST OF ROUTE 605 TO S405)

- SOUTH ON N STUDEBAKER Rd
- EAST ON ROUTE 22
- SOUTH ON ROUTE 405

DETOUR ROUTE (WEST OF ROUTE 605 TO W22)

- SOUTH ON N STUDEBAKER Rd
- WEST ON ROUTE 22

DETOUR ROUTE (EAST OF ROUTE 605 TO N405)

- EAST ON KATELLA Ave
- SOUTH ON LOS ALAMITOS Blvd
- CONTINUE SOUTH ON SEAL BEACH Blvd
- NORTH ON ROUTE 405

DETOUR ROUTE (EAST OF ROUTE 605 TO S405)

- EAST ON KATELLA Ave
- SOUTH ON LOS ALAMITOS Blvd
- CONTINUE SOUTH ON SEAL BEACH Blvd
- SOUTH ON ROUTE 405

DETOUR ROUTE (EAST OF ROUTE 605 TO W22)

- EAST ON KATELLA Ave
- SOUTH ON LOS ALAMITOS Blvd
- CONTINUE SOUTH ON SEAL BEACH Blvd
- WEST ON OLD RANCH Pkwy
  WEST ON ROUTE 22

DETOUR STAGE

STAGE 3E

TRAFFIC HANDLING PLAN DETOUR LAYOUT

(SB WILLOW St ON-RAMP CLOSURE)

NO SCALE

TH-31

THIS PLAN ACCURATE FOR DETOUR LAYOUT 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 08-10-09 | DATE PLOTTED => 03-FEB-2010 | TIME PLOTTED => 14:36

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmnguye | DGN FILE => c07163md031.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	932	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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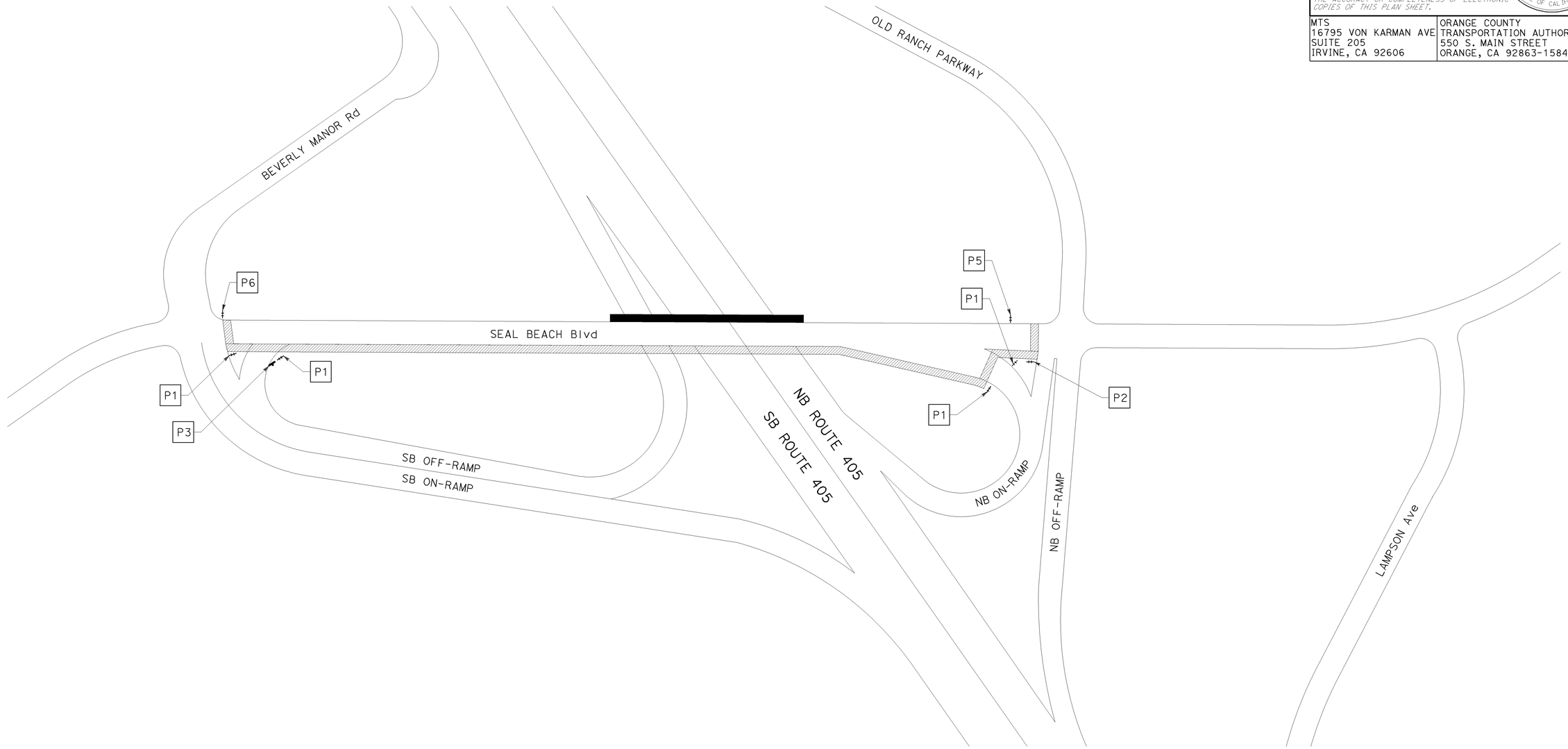
550 S. MAIN STREET
ORANGE, CA 92863-1584

CLOSURE

· WEST SIDE OF SEAL BEACH Blvd BRIDGE.

DETOUR STAGE

STAGE 2A



PEDESTRIAN DETOUR

TRAFFIC HANDLING PLAN DETOUR LAYOUT

NO SCALE

TH-32

THIS PLAN ACCURATE FOR DETOUR LAYOUT 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 => 14:36
08-10-09

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmnguye
DGN FILE => c07163md032.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	933	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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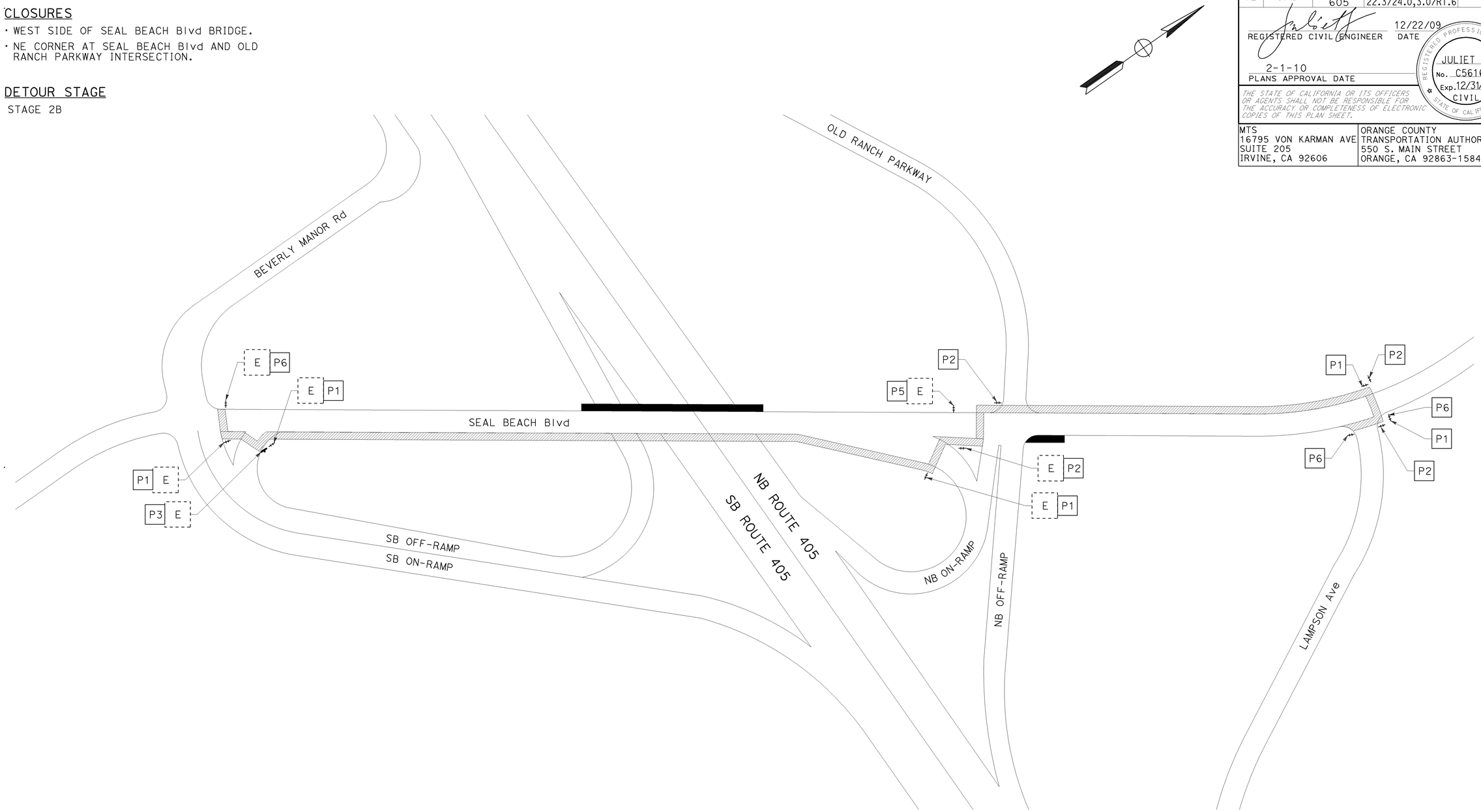
ORANGE, CA 92863-1584

CLOSURES

- WEST SIDE OF SEAL BEACH Blvd BRIDGE.
- NE CORNER AT SEAL BEACH Blvd AND OLD RANCH PARKWAY INTERSECTION.

DETOUR STAGE

STAGE 2B



PEDESTRIAN DETOUR

TRAFFIC HANDLING PLAN DETOUR LAYOUT

NO SCALE

TH-33

THIS PLAN ACCURATE FOR DETOUR LAYOUT 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 => 14:36

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmnguye
DGN FILE => c07163md033.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	934	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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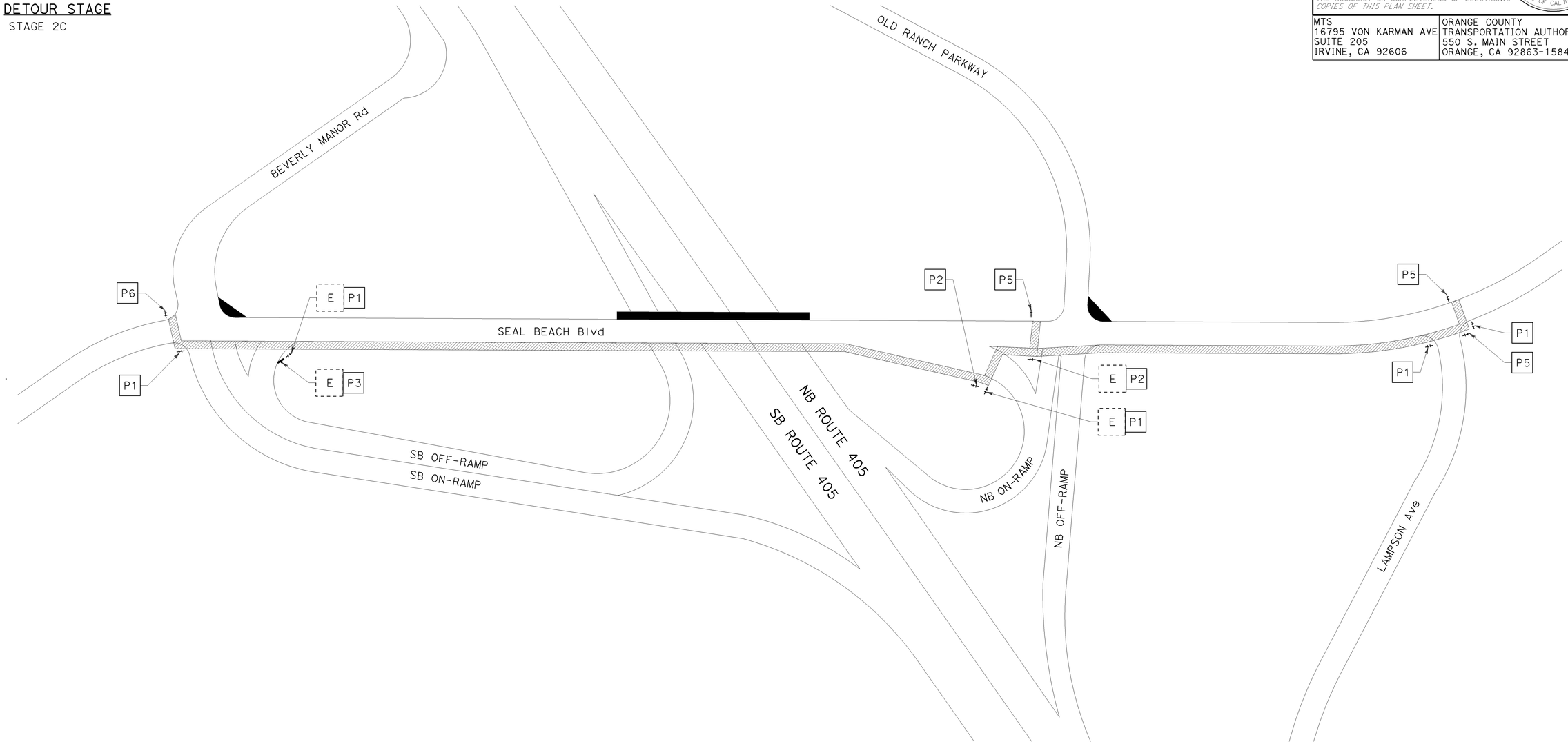
550 S. MAIN STREET
ORANGE, CA 92863-1584

CLOSURES

- WEST SIDE OF SEAL BEACH Blvd BRIDGE.
- NE CURB RETURN AT SEAL BEACH Blvd AND OLD RANCH PARKWAY INTERSECTION.
- NW CURB RETURN AT SEAL BEACH Blvd AND BEVERLY MANOR Rd INTERSECTION.

DETOUR STAGE

STAGE 2C



PEDESTRIAN DETOUR

TRAFFIC HANDLING PLAN DETOUR LAYOUT

NO SCALE

TH-34

THIS PLAN ACCURATE FOR DETOUR LAYOUT 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 => 14:37

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmnguye
DGN FILE => c07163md034.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	935	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

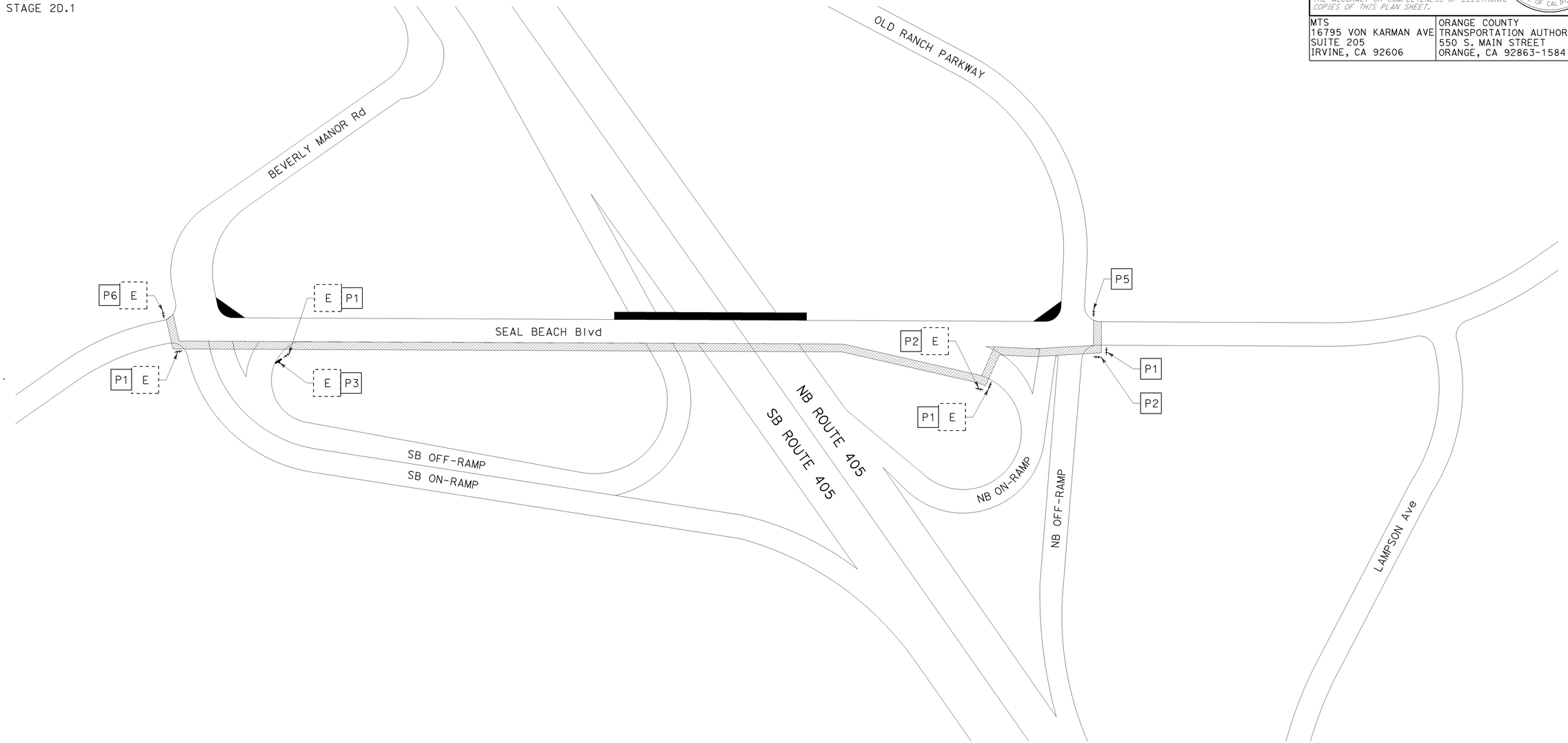
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

CLOSURES

- WEST SIDE OF SEAL BEACH Blvd BRIDGE.
- NW CURB RETURN AT SEAL BEACH Blvd AND BEVERLY MANOR Rd INTERSECTION.

DETOUR STAGE

STAGE 2D.1



PEDESTRIAN DETOUR

TRAFFIC HANDLING PLAN DETOUR LAYOUT

NO SCALE

TH-35

THIS PLAN ACCURATE FOR DETOUR LAYOUT 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 => 14:37
08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmnguye DGN FILE => c07163md035.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	936	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

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

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TRANSPORTATION AUTHORITY
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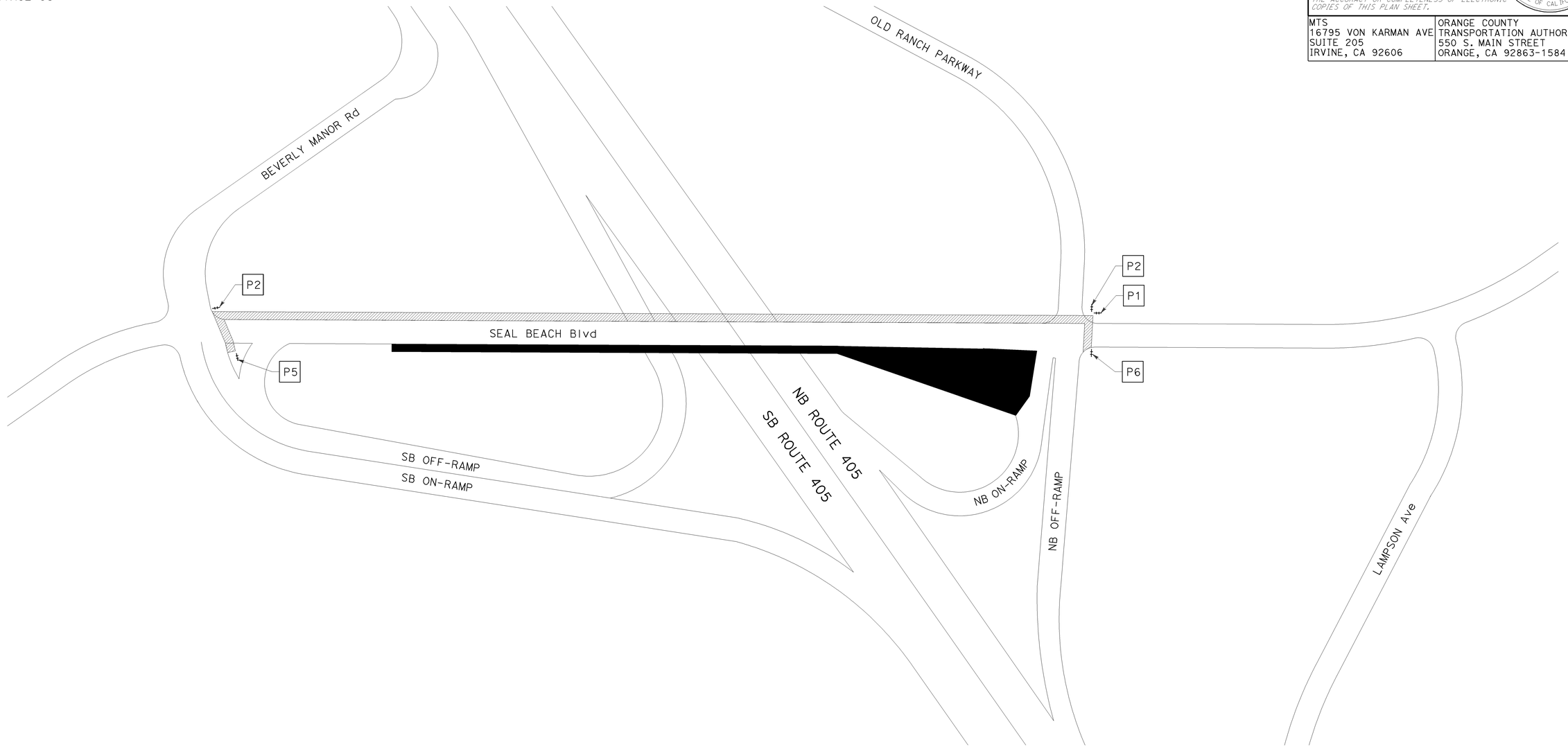
ORANGE, CA 92863-1584

CLOSURE

· EAST SIDE OF SEAL BEACH Blvd BRIDGE.

DETOUR STAGES

STAGE 3A.1
STAGE 3A.2
STAGE 3C



THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY.

PEDESTRIAN DETOUR

TRAFFIC HANDLING PLAN DETOUR LAYOUT

NO SCALE

TH-36

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 14:37
08-10-09

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 => c07163md036.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	937	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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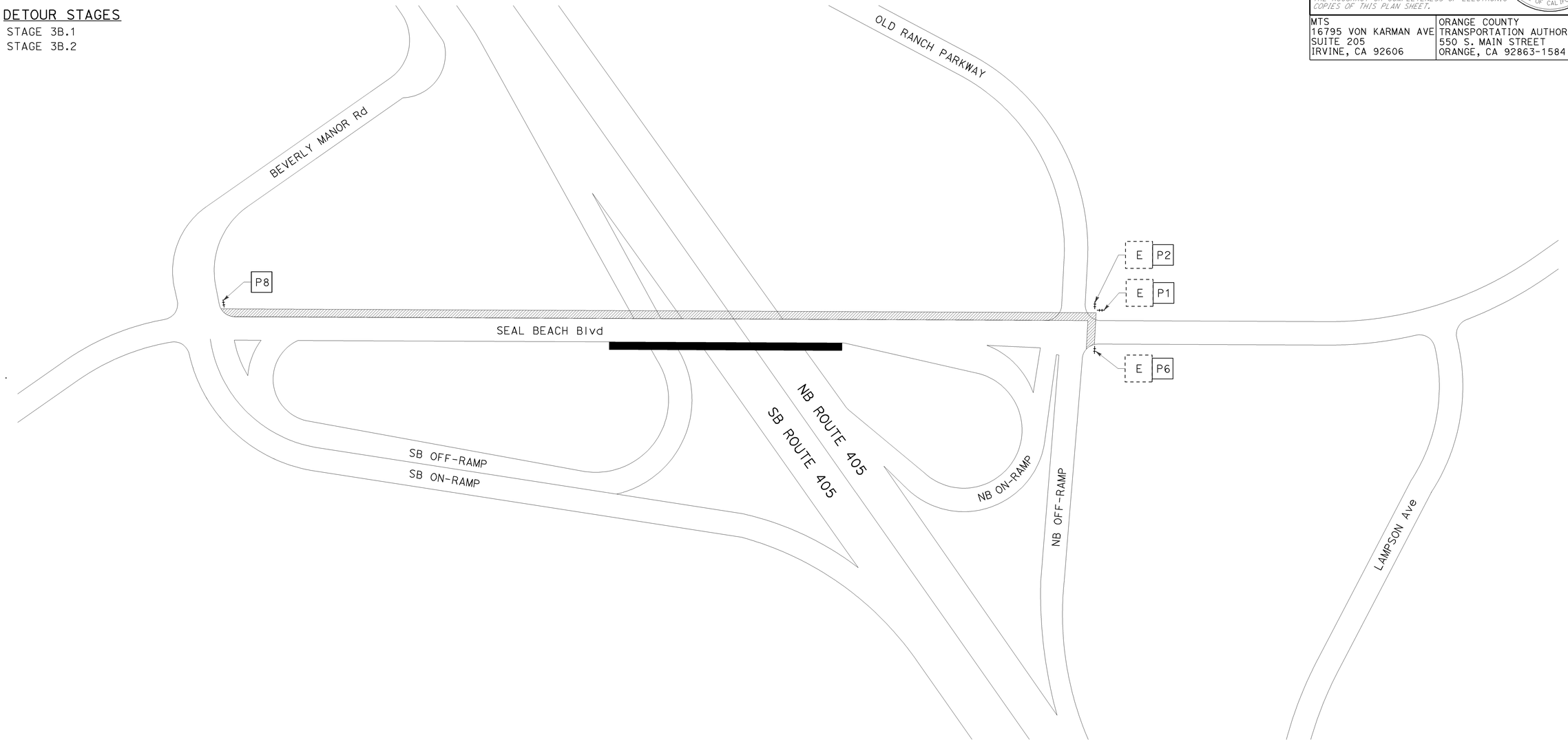
ORANGE, CA 92863-1584

CLOSURES

- EAST SIDE OF SEAL BEACH Blvd BRIDGE.
- NE CORNER OF SEAL BEACH Blvd AND BEVERLY MANOR Rd INTERSECTION.
- SE CORNER OF SEAL BEACH Blvd AND BEVERLY MANOR Rd INTERSECTION.

DETOUR STAGES

STAGE 3B.1
STAGE 3B.2



THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY.

PEDESTRIAN DETOUR

TRAFFIC HANDLING PLAN DETOUR LAYOUT

NO SCALE

TH-37

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 => 14:37

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmnguye | DGN FILE => c07163md037.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	938	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

DETOUR ROUTE (NORTH OF SEAL BEACH TO SOUTH OF SEAL BEACH)

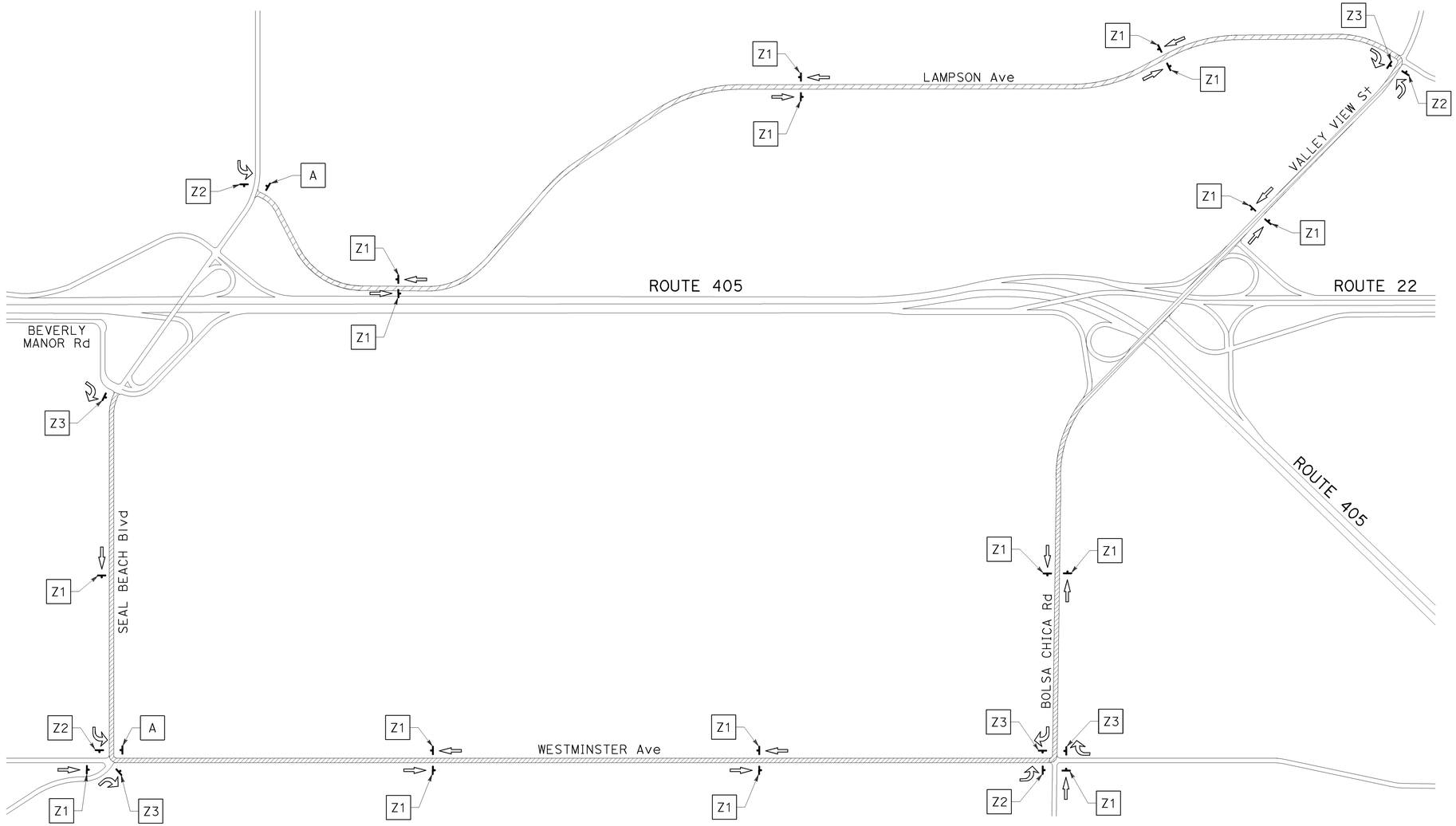
- EAST ON LAMPSON Ave
- SOUTH ON VALLEY VIEW St
- CONTINUE SOUTH ON BOLSA CHICA Rd
- WEST ON WESTMINSTER Ave

DETOUR ROUTE (SOUTH OF SEAL BEACH TO NORTH OF SEAL BEACH)

- EAST ON WESTMINSTER Ave
- NORTH ON BOLSA CHICA Rd
- CONTINUE NORTH ON VALLEY VIEW St
- WEST ON LAMPSON Ave

DETOUR STAGES

STAGE 2A-3C



BIKE DETOUR

TRAFFIC HANDLING PLAN DETOUR LAYOUT

NO SCALE

TH-38

THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY.

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
LAST REVISION TIME PLOTTED => 14:37
08-10-09

BORDER LAST REVISED 8/1/2008 — RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmnguye
DGN FILE => c07163md038.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	939	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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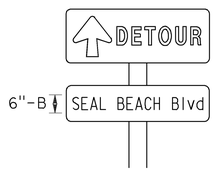
IRVINE, CA 92606

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

NOTE:

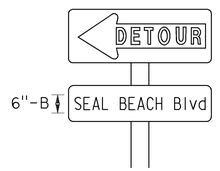
1. AS NOTED ON PLANS, SIGN SHALL HAVE A BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND.



SC3-1(CA) 48" X 18"
W16-8 Mod 60" X 10" (SEE NOTE 1)

(4" X 6") POST

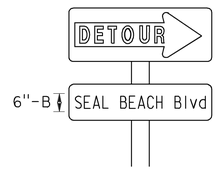
B1



M4-10L 48" X 18"
W16-8 Mod 60" X 10" (SEE NOTE 1)

(4" X 6") POST

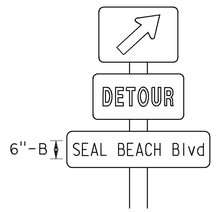
B2



M4-10R 48" X 18"
W16-8 Mod 60" X 10" (SEE NOTE 1)

(4" X 6") POST

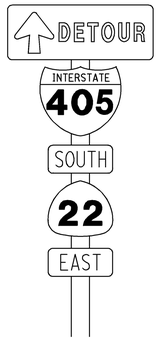
B3



M6-2 Mod 21" X 15" (SEE NOTE 1)
M4-8 24" X 12"
W16-8 Mod 60" X 10" (SEE NOTE 1)

(4" X 6") POST

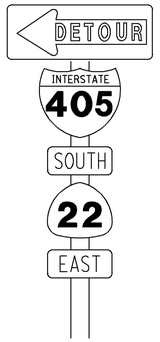
B4



SC3-1(CA) 48" x 18"
M1-1 30" X 24"
M3-3 Mod 24" X 12" (SEE NOTE 1)
G28-1(CA) 28" X 25"
M3-2 Mod 24" X 12" (SEE NOTE 1)

(6" X 6") POST

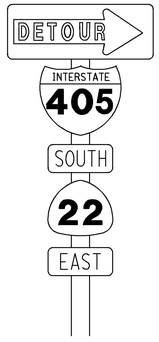
C1



M4-10L 48" X 18"
M1-1 30" X 24"
M3-3 Mod 24" X 12" (SEE NOTE 1)
G28-1(CA) 28" X 25"
M3-2 Mod 24" X 12" (SEE NOTE 1)

(6" X 6") POST

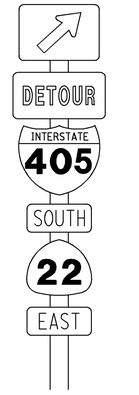
C2



M4-10R 48" X 18"
M1-1 30" X 24"
M3-3 Mod 24" X 12" (SEE NOTE 1)
G28-1(CA) 28" X 25"
M3-2 Mod 24" X 12" (SEE NOTE 1)

(6" X 6") POST

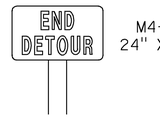
C3



M6-2 Mod 21" X 15" (SEE NOTE 1)
M4-8 24" X 12"
M1-1 30" X 24"
M3-3 Mod 24" X 12" (SEE NOTE 1)
G28-1(CA) 28" X 25"
M3-2 Mod 24" X 12" (SEE NOTE 1)

(6" X 6") POST

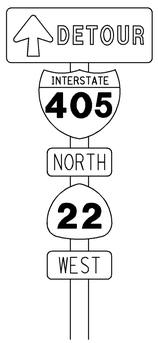
C4



M4-8A 24" X 18"

(4" X 6") POST

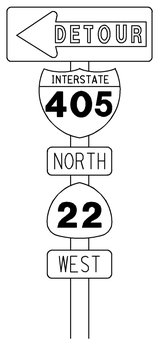
A



SC3-1(CA) 48" x 18"
M1-1 30" X 24"
M3-1 Mod 24" X 12" (SEE NOTE 1)
G28-1(CA) 28" X 25"
M3-4 Mod 24" X 12" (SEE NOTE 1)

(6" X 6") POST

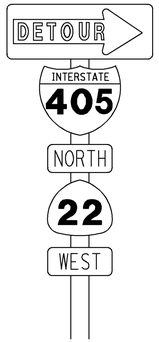
D1



M4-10L 48" X 18"
M1-1 30" X 24"
M3-1 Mod 24" X 12" (SEE NOTE 1)
G28-1(CA) 28" X 25"
M3-4 Mod 24" X 12" (SEE NOTE 1)

(6" X 6") POST

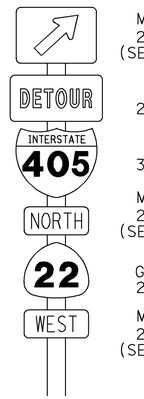
D2



M4-10R 48" X 18"
M1-1 30" X 24"
M3-1 Mod 24" X 12" (SEE NOTE 1)
G28-1(CA) 28" X 25"
M3-4 Mod 24" X 12" (SEE NOTE 1)

(6" X 6") POST

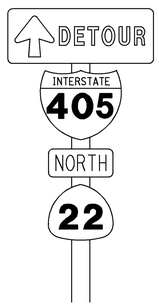
D3



M6-2 Mod 21" X 15" (SEE NOTE 1)
M4-8 24" X 12"
M1-1 30" X 24"
M3-1 Mod 24" X 12" (SEE NOTE 1)
G28-1(CA) 28" X 25"
M3-4 Mod 24" X 12" (SEE NOTE 1)

(6" X 6") POST

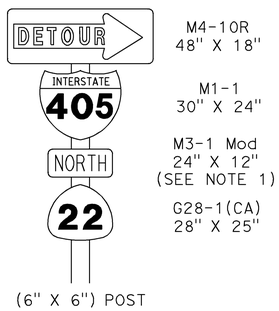
D4



SC3-1(CA) 48" x 18"
M1-1 30" X 24"
M3-1 Mod 24" X 12" (SEE NOTE 1)
G28-1(CA) 28" X 25"

(6" X 6") POST

D5



M4-10R 48" X 18"
M1-1 30" X 24"
M3-1 Mod 24" X 12" (SEE NOTE 1)
G28-1(CA) 28" X 25"

(6" X 6") POST

D6

TRAFFIC HANDLING DETAILS

NO SCALE

THD-1

THIS PLAN ACCURATE FOR DETOUR LAYOUT 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: 8/10/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 14:37

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmnguye
DGN FILE => c07163me001.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	940	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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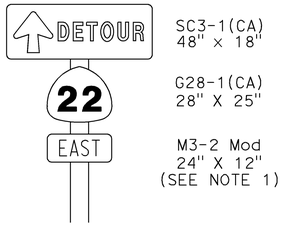
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584



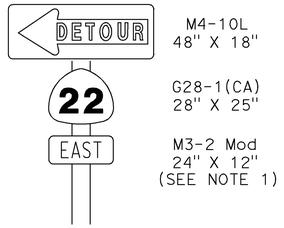
SC3-1(CA)
48" × 18"

G28-1(CA)
28" X 25"

M3-2 Mod
24" X 12"
(SEE NOTE 1)

(4" X 6") POST

E1



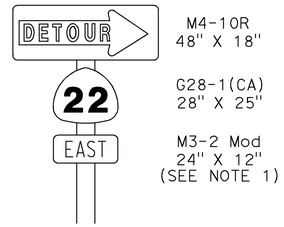
M4-10L
48" X 18"

G28-1(CA)
28" X 25"

M3-2 Mod
24" X 12"
(SEE NOTE 1)

(4" X 6") POST

E2



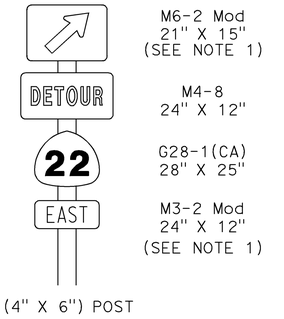
M4-10R
48" X 18"

G28-1(CA)
28" X 25"

M3-2 Mod
24" X 12"
(SEE NOTE 1)

(4" X 6") POST

E3



M6-2 Mod
21" X 15"
(SEE NOTE 1)

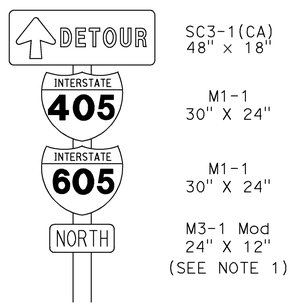
M4-8
24" X 12"

G28-1(CA)
28" X 25"

M3-2 Mod
24" X 12"
(SEE NOTE 1)

(4" X 6") POST

E4



SC3-1(CA)
48" × 18"

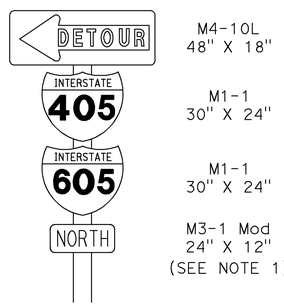
M1-1
30" X 24"

M1-1
30" X 24"

M3-1 Mod
24" X 12"
(SEE NOTE 1)

(6" X 6") POST

F1



M4-10L
48" X 18"

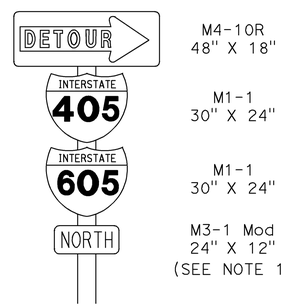
M1-1
30" X 24"

M1-1
30" X 24"

M3-1 Mod
24" X 12"
(SEE NOTE 1)

(6" X 6") POST

F2



M4-10R
48" X 18"

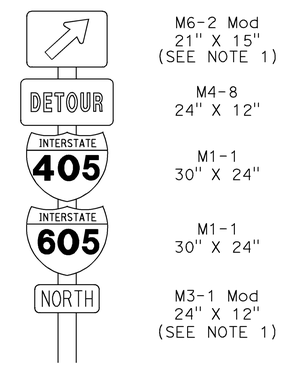
M1-1
30" X 24"

M1-1
30" X 24"

M3-1 Mod
24" X 12"
(SEE NOTE 1)

(6" X 6") POST

F3



M6-2 Mod
21" X 15"
(SEE NOTE 1)

M4-8
24" X 12"

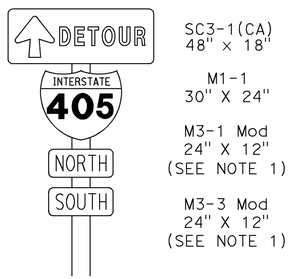
M1-1
30" X 24"

M1-1
30" X 24"

M3-1 Mod
24" X 12"
(SEE NOTE 1)

(6" X 6") POST

F4



SC3-1(CA)
48" × 18"

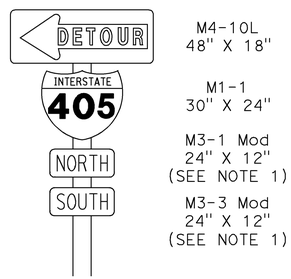
M1-1
30" X 24"

M3-1 Mod
24" X 12"
(SEE NOTE 1)

M3-3 Mod
24" X 12"
(SEE NOTE 1)

(6" X 6") POST

G1



M4-10L
48" X 18"

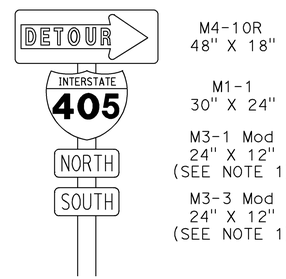
M1-1
30" X 24"

M3-1 Mod
24" X 12"
(SEE NOTE 1)

M3-3 Mod
24" X 12"
(SEE NOTE 1)

(6" X 6") POST

G2



M4-10R
48" X 18"

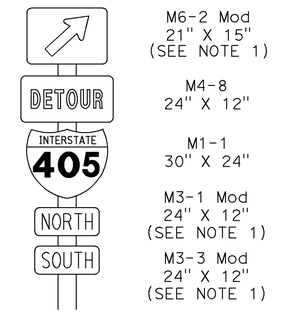
M1-1
30" X 24"

M3-1 Mod
24" X 12"
(SEE NOTE 1)

M3-3 Mod
24" X 12"
(SEE NOTE 1)

(6" X 6") POST

G3



M6-2 Mod
21" X 15"
(SEE NOTE 1)

M4-8
24" X 12"

M1-1
30" X 24"

M3-1 Mod
24" X 12"
(SEE NOTE 1)

M3-3 Mod
24" X 12"
(SEE NOTE 1)

(6" X 6") POST

G4

TRAFFIC HANDLING DETAILS

NO SCALE

THD-2

THIS PLAN ACCURATE FOR DETOUR LAYOUT 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: 8/10/09

LAST REVISION DATE PLOTTED => 03-FEB-2010
TIME PLOTTED => 14:37
08-10-09

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmnguye
DGN FILE => c07163me002.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	941	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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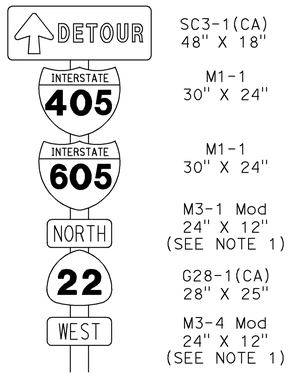
SUITE 205
IRVINE, CA 92606

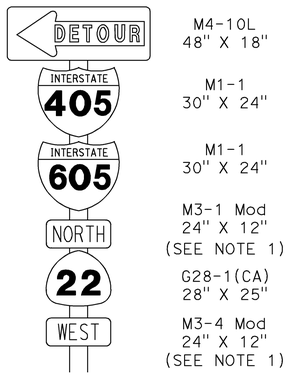
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584



SC3-1(CA) 48" X 18"
M1-1 30" X 24"
M1-1 30" X 24"
M3-1 Mod 24" X 12" (SEE NOTE 1)
G28-1(CA) 28" X 25"
M3-4 Mod 24" X 12" (SEE NOTE 1)

(6" X 6") POST

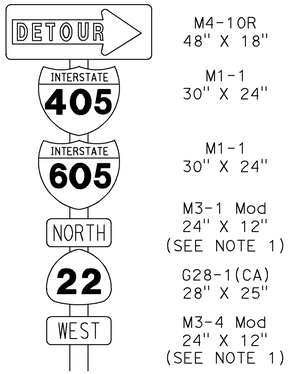
H1



M4-10L 48" X 18"
M1-1 30" X 24"
M1-1 30" X 24"
M3-1 Mod 24" X 12" (SEE NOTE 1)
G28-1(CA) 28" X 25"
M3-4 Mod 24" X 12" (SEE NOTE 1)

(6" X 6") POST

H2



M4-10R 48" X 18"
M1-1 30" X 24"
M1-1 30" X 24"
M3-1 Mod 24" X 12" (SEE NOTE 1)
G28-1(CA) 28" X 25"
M3-4 Mod 24" X 12" (SEE NOTE 1)

(6" X 6") POST

H3

SC3-1(CA) 48" X 18"
M1-1 30" X 24"
G28-1(CA) 28" X 25"
M3-4 Mod 24" X 12" (SEE NOTE 1)

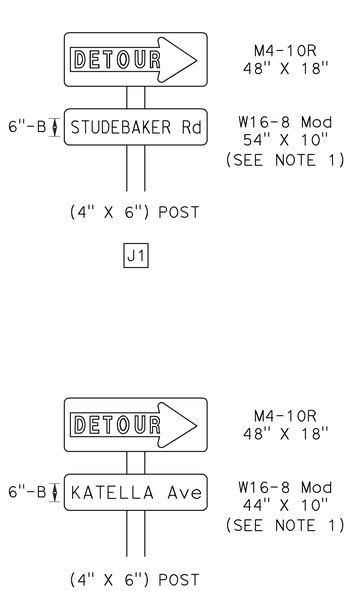
(4" X 6") POST

I1

M4-10R 48" X 18"
M1-1 30" X 24"
G28-1(CA) 28" X 25"
M3-4 Mod 24" X 12" (SEE NOTE 1)

(4" X 6") POST

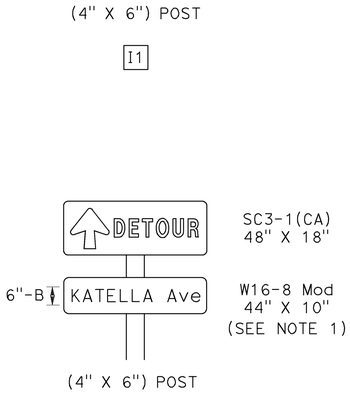
I2



M4-10R 48" X 18"
W16-8 Mod 54" X 10" (SEE NOTE 1)

(4" X 6") POST

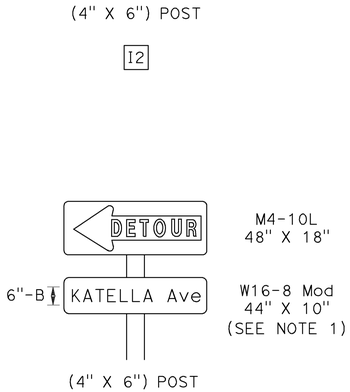
J1



SC3-1(CA) 48" X 18"
W16-8 Mod 44" X 10" (SEE NOTE 1)

(4" X 6") POST

K1



M4-10L 48" X 18"
W16-8 Mod 44" X 10" (SEE NOTE 1)

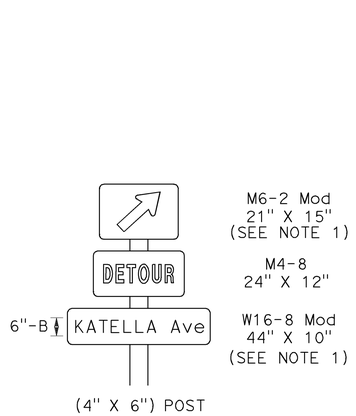
(4" X 6") POST

K2

M4-10R 48" X 18"
W16-8 Mod 44" X 10" (SEE NOTE 1)

(4" X 6") POST

K3



M6-2 Mod 21" X 15" (SEE NOTE 1)
M4-8 24" X 12"
W16-8 Mod 44" X 10" (SEE NOTE 1)

(4" X 6") POST

K4

TRAFFIC HANDLING DETAILS

NO SCALE

THD-3

THIS PLAN ACCURATE FOR DETOUR LAYOUT 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 => 14:49

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmnguye
DGN FILE => c07163me003.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	942	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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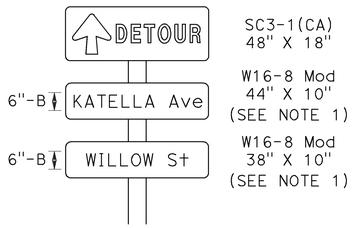
SUITE 205
IRVINE, CA 92606

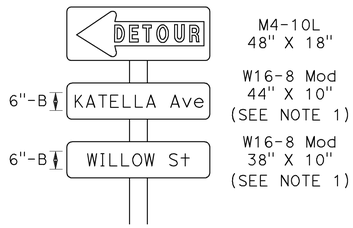
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584



SC3-1(CA) 48" X 18"
W16-8 Mod 44" X 10" (SEE NOTE 1)
W16-8 Mod 38" X 10" (SEE NOTE 1)

(4" X 6") POST

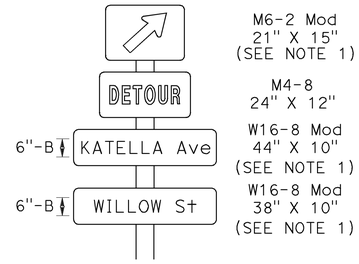
K5



M4-10L 48" X 18"
W16-8 Mod 44" X 10" (SEE NOTE 1)
W16-8 Mod 38" X 10" (SEE NOTE 1)

(4" X 6") POST

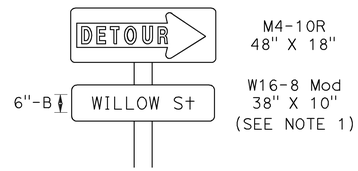
K6



M6-2 Mod 21" X 15" (SEE NOTE 1)
M4-8 24" X 12"
W16-8 Mod 44" X 10" (SEE NOTE 1)
W16-8 Mod 38" X 10" (SEE NOTE 1)

(4" X 6") POST

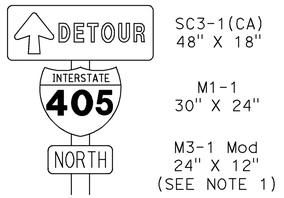
K7



M4-10R 48" X 18"
W16-8 Mod 38" X 10" (SEE NOTE 1)

(4" X 6") POST

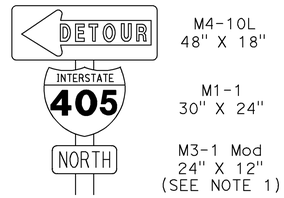
L1



SC3-1(CA) 48" X 18"
M1-1 30" X 24"
M3-1 Mod 24" X 12" (SEE NOTE 1)

(4" X 6") POST

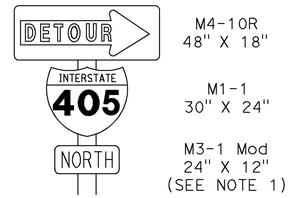
N1



M4-10L 48" X 18"
M1-1 30" X 24"
M3-1 Mod 24" X 12" (SEE NOTE 1)

(4" X 6") POST

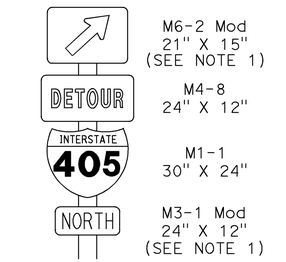
N2



M4-10R 48" X 18"
M1-1 30" X 24"
M3-1 Mod 24" X 12" (SEE NOTE 1)

(4" X 6") POST

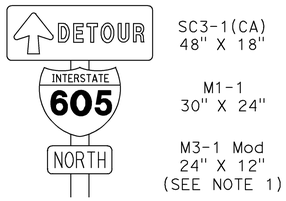
N3



M6-2 Mod 21" X 15" (SEE NOTE 1)
M4-8 24" X 12"
M1-1 30" X 24"
M3-1 Mod 24" X 12" (SEE NOTE 1)

(4" X 6") POST

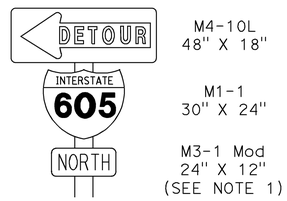
N4



SC3-1(CA) 48" X 18"
M1-1 30" X 24"
M3-1 Mod 24" X 12" (SEE NOTE 1)

(4" X 6") POST

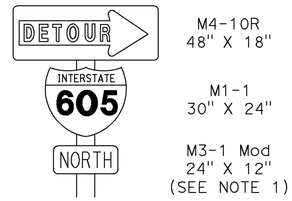
N5



M4-10L 48" X 18"
M1-1 30" X 24"
M3-1 Mod 24" X 12" (SEE NOTE 1)

(4" X 6") POST

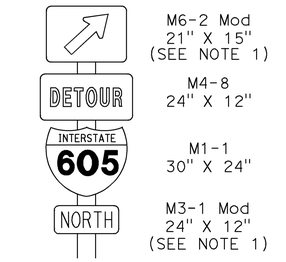
N6



M4-10R 48" X 18"
M1-1 30" X 24"
M3-1 Mod 24" X 12" (SEE NOTE 1)

(4" X 6") POST

N7



M6-2 Mod 21" X 15" (SEE NOTE 1)
M4-8 24" X 12"
M1-1 30" X 24"
M3-1 Mod 24" X 12" (SEE NOTE 1)

(4" X 6") POST

N8

TRAFFIC HANDLING DETAILS

NO SCALE

THD-4

THIS PLAN ACCURATE FOR DETOUR LAYOUT 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 => trmnguye
DGN FILE => c07163me004.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	943	1929

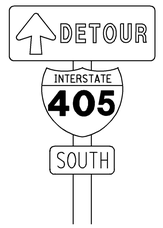
REGISTERED CIVIL ENGINEER — 12/22/09 DATE

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



SC3-1(CA)
48" x 18"

M1-1
30" X 24"

M3-3 Mod
24" X 12"
(SEE NOTE 1)

(4" X 6") POST

S1

M4-10L
48" X 18"

M1-1
30" X 24"

M3-3 Mod
24" X 12"
(SEE NOTE 1)

(4" X 6") POST

S2

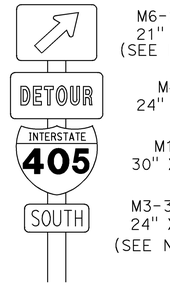
M4-10R
48" X 18"

M1-1
30" X 24"

M3-3 Mod
24" X 12"
(SEE NOTE 1)

(4" X 6") POST

S3



M6-2 Mod
21" X 15"
(SEE NOTE 1)

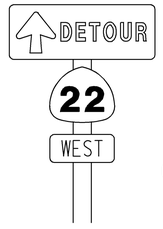
M4-8
24" X 12"

M1-1
30" X 24"

M3-3 Mod
24" X 12"
(SEE NOTE 1)

(4" X 6") POST

S4



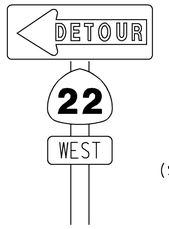
SC3-1(CA)
48" x 18"

G28-1(CA)
28" X 25"

M3-4 Mod
24" X 12"
(SEE NOTE 1)

(4" X 6") POST

W1



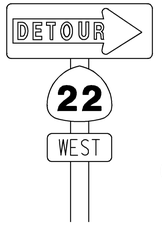
M4-10L
48" X 18"

G28-1(CA)
28" X 25"

M3-4 Mod
24" X 12"
(SEE NOTE 1)

(4" X 6") POST

W2



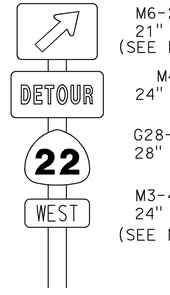
M4-10R
48" X 18"

G28-1(CA)
28" X 25"

M3-4 Mod
24" X 12"
(SEE NOTE 1)

(4" X 6") POST

W3



M6-2 Mod
21" X 15"
(SEE NOTE 1)

M4-8
24" X 12"

G28-1(CA)
28" X 25"

M3-4 Mod
24" X 12"
(SEE NOTE 1)

(4" X 6") POST

W4

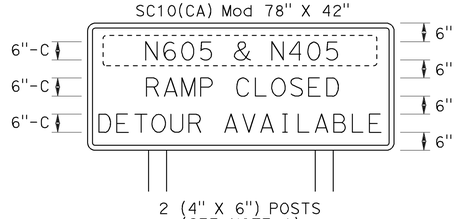
M4-10R
48" X 18"

G28-1(CA)
28" X 25"

(4" X 6") POST

W5

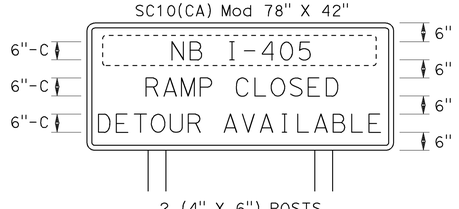
SC10(CA) Mod 78" X 42"



2 (4" X 6") POSTS
(SEE NOTE 1)

CA

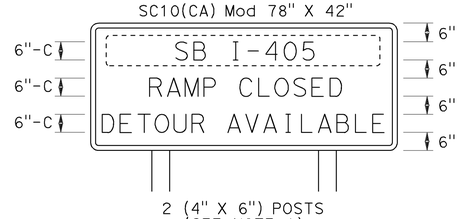
SC10(CA) Mod 78" X 42"



2 (4" X 6") POSTS
(SEE NOTE 1)

CB

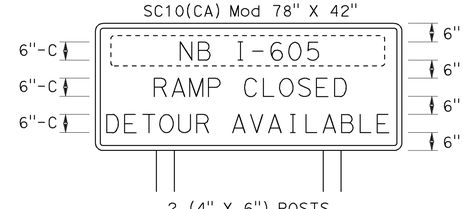
SC10(CA) Mod 78" X 42"



2 (4" X 6") POSTS
(SEE NOTE 1)

CC

SC10(CA) Mod 78" X 42"



2 (4" X 6") POSTS
(SEE NOTE 1)

CD

TRAFFIC HANDLING DETAILS

NO SCALE

THD-5

THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY.

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 => 14:50
08-10-09

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmnguye
DGN FILE => c07163me005.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	944	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. SIGNS SHOWN ON THIS SHEET SHALL HAVE A BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND.

SC10(CA) Mod 78" X 42"
6"-C / 6"-C / 6"-C
WB SR-22
RAMP CLOSED
DETOUR AVAILABLE
6" / 6" / 6" / 6"
2 (4" X 6") POSTS
CE

SC10(CA) Mod 78" X 42"
6"-C / 6"-C / 6"-C
SEAL BEACH Blvd
RAMP CLOSED
DETOUR AVAILABLE
6" / 6" / 6" / 6"
2 (4" X 6") POSTS
CF

SC10(CA) Mod 78" X 54"
6"-C / 6"-C / 6"-C / 6"-C
NB I-405 RAMP
CLOSED AT
SEAL BEACH Blvd
DETOUR AVAILABLE
6" / 6" / 6" / 6" / 6"
2 (6" X 6") POSTS
CG

SC10(CA) Mod 78" X 54"
6"-C / 6"-C / 6"-C / 6"-C
SB I-405 RAMP
CLOSED AT
SEAL BEACH Blvd
DETOUR AVAILABLE
6" / 6" / 6" / 6" / 6"
2 (6" X 6") POSTS
CH

SC10(CA) Mod 78" X 54"
6"-C / 6"-C / 6"-C / 6"-C
NB I-405
CLOSED AT
SEAL BEACH Blvd
DETOUR AVAILABLE
6" / 6" / 6" / 6" / 6"
2 (6" X 6") POSTS
CI

SC10(CA) Mod 78" X 54"
6"-C / 6"-C / 6"-C / 6"-C
SB I-405
CLOSED AT
SEAL BEACH Blvd
DETOUR AVAILABLE
6" / 6" / 6" / 6" / 6"
2 (6" X 6") POSTS
CJ

SC10(CA) Mod 78" X 42"
6"-C / 6"-C / 6"-C
SEAL BEACH Blvd
CLOSED AT BRIDGE
DETOUR AVAILABLE
6" / 6" / 6" / 6"
2 (4" X 6") POSTS
CK

SC10(CA) Mod 84" X 30"
6"-C / 6"-C
I-405 CLOSED AHEAD
DETOUR AVAILABLE
6" / 6" / 6"
2 (4" X 6") POSTS
CL

SC10(CA) Mod 84" X 30"
6"-C / 6"-C
I-605 CLOSED AHEAD
DETOUR AVAILABLE
6" / 6" / 6"
2 (4" X 6") POSTS
CM

SC10(CA) Mod 84" X 42"
6"-C / 6"-C / 6"-C
SEAL BEACH Blvd
UNDER CONSTRUCTION
DETOUR AVAILABLE
6" / 6" / 6" / 6"
2 (4" X 6") POSTS
CN

SC10(CA) Mod 78" X 42"
6"-C / 6"-C / 6"-C
E22-N405 Conn
RAMP CLOSED
DETOUR AVAILABLE
6" / 6" / 6" / 6"
2 (4" X 6") POSTS
CO

SC10(CA) Mod 78" X 42"
6"-C / 6"-C / 6"-C
KATELLA Ave
RAMP CLOSED
DETOUR AVAILABLE
6" / 6" / 6" / 6"
2 (4" X 6") POSTS
CP

SC10(CA) Mod 78" X 54"
6"-C / 6"-C / 6"-C / 6"-C
NB I-605 RAMP
CLOSED AT
KATELLA Ave
DETOUR AVAILABLE
6" / 6" / 6" / 6" / 6"
2 (6" X 6") POSTS
CQ

SC10(CA) Mod 78" X 54"
6"-C / 6"-C / 6"-C / 6"-C
KATELLA Ave
WILLOW St
RAMP CLOSED
DETOUR AVAILABLE
6" / 6" / 6" / 6" / 6"
2 (6" X 6") POSTS
CR

SC10(CA) Mod 78" X 54"
6"-C / 6"-C / 6"-C / 6"-C
SB I-605 RAMP
CLOSED AT
WILLOW St
DETOUR AVAILABLE
6" / 6" / 6" / 6" / 6"
2 (6" X 6") POSTS
CS

THIS PLAN ACCURATE FOR DETOUR LAYOUT ONLY.

TRAFFIC HANDLING DETAILS

NO SCALE

THD-6

CALCULATED-DESIGNED BY	KELSIE ANDERSON	CONSULTANT FUNCTIONAL SUPERVISOR	STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LAST REVISION DATE PLOTTED => 03-FEB-2010
CHECKED BY	JULIET SU	LEONARD SEQUEIRA	Caltrans	08-10-09 TIME PLOTTED => 14:50
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 => trmnguye — DGN FILE => c07163me006.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	945	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. DAY, MONTH AND DATE FOR ALL SC6-4(CA) Mod TO BE DETERMINED BY THE ENGINEER.

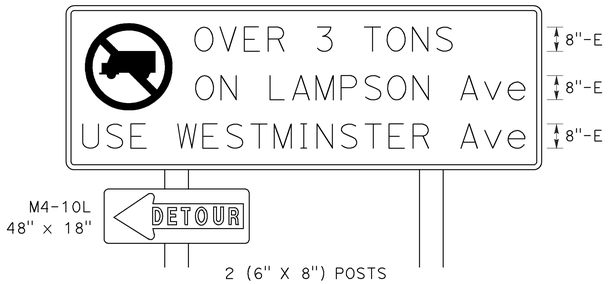
138" x 54" BLACK/RED/ORANGE

NT

138" x 54" BLACK/RED/ORANGE

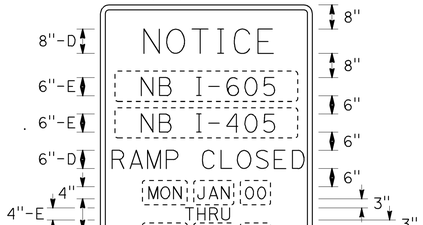
NU

138" x 54" BLACK/RED/ORANGE



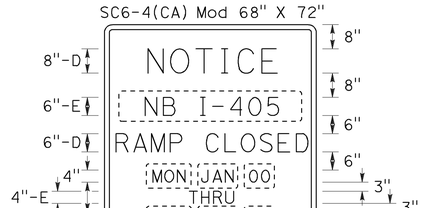
NU Mod

SC6-4(CA) Mod 68" X 84"



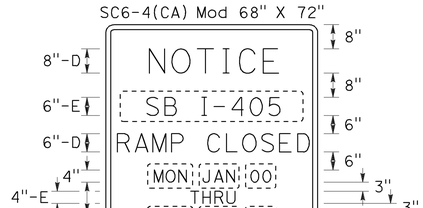
RA

SC6-4(CA) Mod 68" X 72"



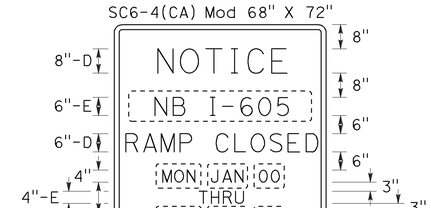
RB

SC6-4(CA) Mod 68" X 72"



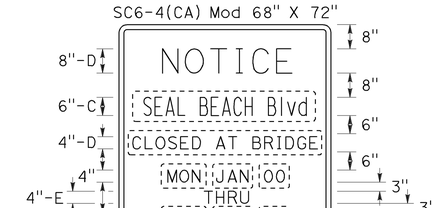
RC

SC6-4(CA) Mod 68" X 72"



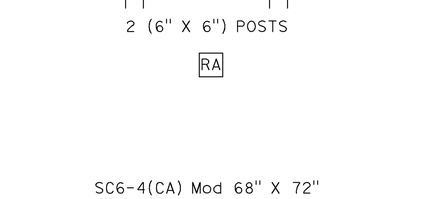
RD

SC6-4(CA) Mod 68" X 72"



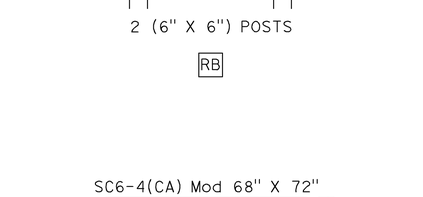
RE

SC6-4(CA) Mod 68" X 72"



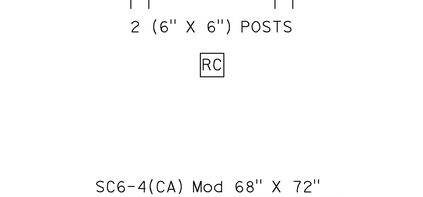
RF

SC6-4(CA) Mod 68" X 72"



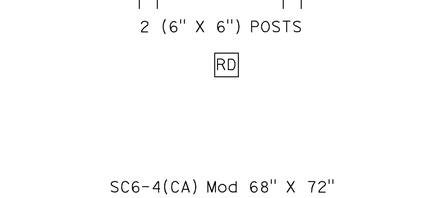
RS

SC6-4(CA) Mod 68" X 72"



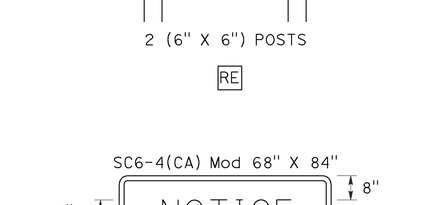
RT

SC6-4(CA) Mod 68" X 72"



RU

SC6-4(CA) Mod 68" X 84"



RV

TRAFFIC HANDLING DETAILS

NO SCALE

THD-7

THIS PLAN ACCURATE FOR DETOUR LAYOUT 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 => 14:50

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmnguye
DGN FILE => c07163me007.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	946	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. SIGNS SHOWN ON THIS SHEET SHALL HAVE A BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND.

SC7(CA) Mod 84" X 54"
6"-D
NB 605 & NB 405
RAMP CLOSED
USE RAMP AT
STUDEBAKER Rd
6"
2 (6" X 6") POSTS
SA

SC7(CA) Mod 84" X 54"
NB I-405
RAMP CLOSED
USE RAMP AT
WILLOW St
2 (6" X 6") POSTS
SB

SC7(CA) Mod 84" X 54"
SB I-405
RAMP CLOSED
USE RAMP AT
KATELLA Ave
2 (6" X 6") POSTS
SC

SC7(CA) Mod 84" X 54"
E22-N405 Conn
RAMP CLOSED
USE RAMP AT
STUDEBAKER Rd
2 (6" X 6") POSTS
SD

SC7(CA) Mod 84" X 54"
SB I-405
RAMP CLOSED
USE RAMP AT
STUDEBAKER Rd
2 (6" X 6") POSTS
SE

SC7(CA) Mod 84" X 54"
NB I-605
RAMP CLOSED
USE RAMP AT
SEAL BEACH Blvd
2 (6" X 6") POSTS
SF

SC7(CA) Mod 84" X 54"
NB I-605
RAMP CLOSED
USE RAMP AT
LAKEWOOD NORTH
2 (6" X 6") POSTS
SG

SC7(CA) Mod 84" X 54"
SEAL BEACH Blvd
RAMP CLOSED
USE RAMP AT
KATELLA Ave
2 (6" X 6") POSTS
SH

SC7(CA) Mod 84" X 54"
SEAL BEACH Blvd
RAMP CLOSED
USE RAMP AT
WESTMINSTER Ave
2 (6" X 6") POSTS
SI

SC7(CA) Mod 84" X 54"
SEAL BEACH Blvd
RAMP CLOSED
USE RAMP AT
STUDEBAKER Rd
2 (6" X 6") POSTS
SJ

SC7(CA) Mod 84" X 54"
WB SR-22
RAMP CLOSED
USE RAMP AT
STUDEBAKER Rd
2 (6" X 6") POSTS
SK

SC7(CA) Mod 84" X 54"
NB I-605
RAMP CLOSED
USE RAMP AT
BELLFLOWER Blvd
2 (6" X 6") POSTS
SL

SC7(CA) Mod 84" X 54"
WB SR-22
RAMP CLOSED
USE RAMP AT
SEAL BEACH Blvd
2 (6" X 6") POSTS
SM

SC7(CA) Mod 84" X 54"
NB I-605
RAMP CLOSED
USE RAMP AT
STUDEBAKER Rd
2 (6" X 6") POSTS
SN

SC7(CA) Mod 84" X 54"
SEAL BEACH Blvd
RAMP CLOSED
USE RAMP AT
VALLEY VIEW St
2 (6" X 6") POSTS
SO

TRAFFIC HANDLING DETAILS

NO SCALE

THD-8

THIS PLAN ACCURATE FOR DETOUR LAYOUT 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 => 14:50
08-10-09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmnguye
DGN FILE => c07163me008.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	947	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. SIGNS SHOWN ON THIS SHEET SHALL HAVE A BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND.

SC7(CA) Mod 84" X 54"

6"-D
6"-D
6"-D
6"-D

WB SR-22
RAMP CLOSED
USE RAMP AT
WESTMINSTER Ave

6"
6"
6"
6"
6"

2 (6" X 6") POSTS

SP

SC7(CA) Mod 84" X 54"

6"-D
6"-D
6"-D
6"-D

WB SR-22
RAMP CLOSED
USE RAMP AT
PALO VERDE Ave

6"
6"
6"
6"
6"

2 (6" X 6") POSTS

SQ

SC7(CA) Mod 84" X 54"

6"-D
6"-D
6"-D
6"-D

605 TO SB 405
RAMP CLOSED
USE RAMP AT
SEAL BEACH Blvd

6"
6"
6"
6"
6"

2 (6" X 6") POSTS

SR

SC7(CA) Mod 84" X 54"

6"-D
6"-D
6"-D
6"-D

405 TO NB 605
RAMP CLOSED
USE RAMP AT
KATELLA Ave

6"
6"
6"
6"

2 (6" X 6") POSTS

SS

SC7(CA) Mod 84" X 54"

6"-D
6"-D
6"-D

605 TO NB 405
RAMP CLOSED
USE RAMP AT
STUDEBAKER Rd

6"
6"
6"
6"

2 (6" X 6") POSTS

ST

SC7(CA) Mod 84" X 54"

6"-D
6"-D
6"-D

SB I-605
RAMP CLOSED
USE RAMP AT
STUDEBAKER Rd

6"
6"
6"
6"

2 (6" X 6") POSTS

SU

SC7(CA) Mod 84" X 54"

6"-D
6"-D
6"-D

ALT SB I-405
DETOUR AVAILABLE
USE
STUDEBAKER Rd

6"
6"
6"
6"

2 (6" X 6") POSTS

SV

SC7(CA) Mod 84" X 54"

6"-D
6"-D
6"-D
6"-D

KATELLA Ave
RAMP CLOSED
USE RAMP AT
CERRITOS Ave

6"
6"
6"
6"
6"

2 (6" X 6") POSTS

SW

SC7(CA) Mod 84" X 66"

6"-D
6"-D
6"-D
6"-D
6"-D

KATELLA Ave
WILLOW St
RAMP CLOSED
USE RAMP AT
CARSON St

6"
6"
6"
6"
6"
6"

2 (6" X 6") POSTS

SX

TRAFFIC HANDLING DETAILS

NO SCALE

THD-9

THIS PLAN ACCURATE FOR DETOUR LAYOUT 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
08-10-09 TIME PLOTTED => 14:50

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	948	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

M4-9BL
30" X 24"

MOUNTED ON
TYPE II BARRICADE

P1

M4-9BR
30" X 24"

MOUNTED ON
TYPE II BARRICADE

P2

R5-6
24" X 24"
(SEE NOTE 1)

(4" X 4") POST

P3

R9-9
30" X 18"
(SEE NOTE 1)

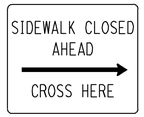
MOUNTED ON
TYPE II BARRICADE

P4

R9-11L
48" X 36"
(SEE NOTE 1)

MOUNTED ON
TYPE II BARRICADE

P5



R9-11R
48" X 36"
(SEE NOTE 1)

MOUNTED ON
TYPE II BARRICADE

P6

R9-3A
18" X 18"
(SEE NOTE 1)

R9-3B
18" X 12"
(SEE NOTE 1)

MOUNTED ON
TYPE II BARRICADE

P7

M4-9B Mod
30" X 24"

MOUNTED ON
TYPE II BARRICADE

P8

M4-9C Mod
30" X 24"

W16-8 Mod
60" X 10"
(SEE NOTE 1)

(4" X 6") POST

Z1

M4-9CL
30" X 24"

W16-8 Mod
60" X 10"
(SEE NOTE 1)

(4" X 6") POST

Z2

M4-9CR
30" X 24"

W16-8 Mod
60" X 10"
(SEE NOTE 1)

(4" X 6") POST

Z3

TRAFFIC HANDLING DETAILS

NO SCALE

THD-10

THIS PLAN ACCURATE FOR DETOUR LAYOUT 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 => 14:51

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmnguye
DGN FILE => c071631me010.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	949	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

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS QUANTITIES

SHEET No.	STAGE	SIGN No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS	
					No. OF POSTS AND SIZE	No. OF SIGNS
TH-1	1A.1-1A.3, 1B.1-1B.3	A	M4-8A	18" x 24"	1-4" x 6"	2
		CE	SC10(CA) Mod	78" x 42"	2-4" x 6"	7
		RF	SC6-4(CA) Mod	68" x 72"	2-6" x 6"	3
		SM	SC7(CA) Mod	84" x 54"	2-6" x 6"	1
		SP	SC7(CA) Mod	84" x 54"	2-6" x 6"	1
		SQ	SC7(CA) Mod	84" x 54"	2-6" x 6"	1
		J1	M4-10R	48" x 18"	1-4" x 6"	3
			W16-8 Mod	54" x 10"		
		W1	SC3-1(CA)	48" x 18"	1-4" x 6"	8
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		W2	M4-10L	48" x 18"	1-4" x 6"	6
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		W3	M4-10R	48" x 18"	1-4" x 6"	3
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		W4	M6-2 Mod	21" x 15"	1-4" x 6"	5
			M4-8	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
TH-2	1A.2, 1B.1, 1B.2, 1B.4, 2A, 2D.1, 3A.1, 3E	A	M4-8A	18" x 24"	1-4" x 6"	2
		CD	SC10(CA) Mod	78" x 42"	2-4" x 6"	1
		RD	SC6-4(CA) Mod	68" x 72"	2-6" x 6"	1
		SF	SC7(CA) Mod	84" x 54"	2-6" x 6"	1
		SS	SC7(CA) Mod	84" x 54"	2-6" x 6"	2
		N5	SC3-1(CA)	48" x 18"	1-4" x 6"	7
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N6	M4-10L	48" x 18"	1-4" x 6"	1
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N7	M4-10R	48" x 18"	1-4" x 6"	4
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N8	M6-2 Mod	21" x 15"	1-4" x 6"	2
			M4-8	24" x 12"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS QUANTITIES

SHEET No.	STAGE	SIGN No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS	
					No. OF POSTS AND SIZE	No. OF SIGNS
TH-3	1A.2, 1B.1, 1B.4, 2A 3A.1, 3E	A	M4-8A	18" x 24"	1-4" x 6"	2
		CD	SC10(CA) Mod	78" x 42"	2-4" x 6"	2
		RD	SC6-4(CA) Mod	68" x 72"	2-6" x 6"	1
		SG	SC7(CA) Mod	84" x 54"	2-6" x 6"	1
		SL	SC7(CA) Mod	84" x 54"	2-6" x 6"	1
		SS	SC7(CA) Mod	84" x 54"	2-6" x 6"	6
		N5	SC3-1(CA)	48" x 18"	1-4" x 6"	13
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N6	M4-10L	48" x 18"	1-4" x 6"	5
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N7	M4-10R	48" x 18"	1-4" x 6"	4
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N8	M6-2 Mod	21" x 15"	1-4" x 6"	3
			M4-8	24" x 12"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
TH-4	1A.1, 1B.3, 2A	A	M4-8A	18" x 24"	1-4" x 6"	1
		CE	SC10(CA) Mod	78" x 42"	2-4" x 6"	2
		RF	SC6-4(CA) Mod	68" x 72"	2-6" x 6"	2
		SK	SC7(CA) Mod	84" x 54"	2-6" x 6"	1
		W1	SC3-1(CA)	48" x 18"	1-4" x 6"	4
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		W2	M4-10L	48" x 18"	1-4" x 6"	1
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		W3	M4-10R	48" x 18"	1-4" x 6"	2
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		W4	M6-2 Mod	21" x 15"	1-4" x 6"	2
			M4-8	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		

TRAFFIC HANDLING QUANTITIES

THQ-1

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

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmnguye | DGN FILE => c07163mf001.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	950	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

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS QUANTITIES

SHEET No.	STAGE	SIGN No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS	
					No. OF POSTS AND SIZE	No. OF SIGNS
TH-5	1B.1, 1B.2, 2A	A	M4-8A	18" x 24"	1-4" x 6"	1
		CB	SC10(CA) Mod	78" x 42"	2-4" x 6"	1
		RB	SC6-4(CA) Mod	68" x 72"	2-6" x 6"	1
		SB	SC7(CA) Mod	84" x 54"	2-6" x 6"	1
		ST	SC7(CA) Mod	84" x 54"	2-6" x 6"	1
		N1	SC3-1(CA)	48" x 18"	1-4" x 6"	2
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N2	M4-10L	48" x 18"	1-4" x 6"	1
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N3	M4-10R	48" x 18"	1-4" x 6"	1
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N4	M6-2 Mod	21" x 15"	1-4" x 6"	1
			M4-8	24" x 12"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
TH-6	1A.2, 1B.1, 2A, 2B.2-2B.3, 2C.1	A	M4-8A	18" x 24"	1-4" x 6"	2
		CC	SC10(CA) Mod	78" x 42"	2-4" x 6"	1
		RC	SC6-4(CA) Mod	68" x 72"	2-6" x 6"	1
		SR	SC7(CA) Mod	84" x 54"	2-6" x 6"	3
		SV	SC7(CA) Mod	84" x 54"	2-6" x 6"	1
		S1	SC3-1(CA)	48" x 18"	1-4" x 6"	11
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		S2	M4-10L	48" x 18"	1-4" x 6"	5
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
		S2 Mod	M4-10L	48" x 18"	1-4" x 6"	1
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
			M4-1 Mod	24" x 12"		
		S3	M4-10R	48" x 18"	1-4" x 6"	1
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
		S4	M6-2 Mod	21" x 15"	1-4" x 6"	3
			M4-8	24" x 12"		
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS QUANTITIES

SHEET No.	STAGE	SIGN No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS	
					No. OF POSTS AND SIZE	No. OF SIGNS
TH-7	1B.1, 1B.2, 2A, 2C.1, 2D.1, 3A.1, 3C, 3E	A	M4-8A	18" x 24"	1-4" x 6"	2
		CA	SC10(CA) Mod	78" x 42"	2-4" x 6"	1
		RA	SC6-4(CA) Mod	68" x 84"	2-6" x 6"	1
		SA	SC7(CA) Mod	84" x 54"	2-6" x 6"	2
		F1	SC3-1(CA)	48" x 18"	1-6" x 6"	2
			M1-1	30" x 24"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		F3	M4-10R	48" x 18"	1-6" x 6"	1
			M1-1	30" x 24"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		F4	M6-2 Mod	21" x 15"	1-6" x 6"	4
			M4-8	24" x 12"		
			M1-1	30" x 24"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N5	SC3-1(CA)	48" x 18"	1-4" x 6"	3
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N7	M4-10R	48" x 18"	1-4" x 6"	1
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
TH-8	1B.2, 2A-2D.2, 3A.1, 3E	A	M4-8A	18" x 24"	1-4" x 6"	1
		CB	SC10(CA) Mod	78" x 42"	2-4" x 6"	1
		CO	SC10(CA) Mod	78" x 42"	2-4" x 6"	1
		RB	SC6-4(CA) Mod	68" x 72"	2-6" x 6"	1
		SD	SC7(CA) Mod	84" x 54"	2-6" x 6"	1
		N1	SC3-1(CA)	48" x 18"	1-4" x 6"	2
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N3	M4-10R	48" x 18"	1-4" x 6"	1
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N4	M6-2 Mod	21" x 15"	1-4" x 6"	1
			M4-8	24" x 12"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		

TRAFFIC HANDLING QUANTITIES

THQ-2

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
08-10-09 TIME PLOTTED => 14:51

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmnguye DGN FILE => c07163mf002.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	951	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 PLAY SHEET.

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

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS QUANTITIES

SHEET No.	STAGE	SIGN No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS	
					No. OF POSTS AND SIZE	No. OF SIGNS
TH-9	1A.2, 1B.5, 2A, 2C.1	A	M4-8A	18" x 24"	1-4" x 6"	2
		CC	SC10(CA) Mod	78" x 42"	2-4" x 6"	4
		RC	SC6-4(CA) Mod	68" x 72"	2-6" x 6"	1
		SE	SC7(CA) Mod	84" x 54"	2-6" x 6"	1
		C1	SC3-1(CA)	48" x 18"	1-6" x 6"	5
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		C2	M4-10L	48" x 18"	1-6" x 6"	2
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		C4	M6-2 Mod	21" x 15"	1-6" x 6"	1
			M4-8	24" x 12"		
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		E1	SC3-1(CA)	48" x 18"	1-4" x 6"	1
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		E2	M4-10L	48" x 18"	1-4" x 6"	1
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		E3	M4-10R	48" x 18"	1-4" x 6"	1
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		S1	SC3-1(CA)	48" x 18"	1-4" x 6"	4
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
TH-10	1A.1, 2A 2B.1, 2C.1, 2D.1, 2D.2, 3A.1, 3B, 3D.1, 3E	A	M4-8A	18" x 24"	1-4" x 6"	2
		CF	SC10(CA) Mod	78" x 42"	2-4" x 6"	2
		NT		138" x 54"	1-6" x 8"	1
		NU Mod		138" x 54"	1-6" x 8"	1
			M4-10L	48" x 18"		
		RS	SC6-4(CA) Mod	68" x 72"	2-6" x 6"	1
		SI	SC7(CA) Mod	84" x 54"	2-6" x 6"	1
		SO	SC7(CA) Mod	84" x 54"	2-6" x 6"	1
		B1	SC3-1(CA)	48" x 18"	1-4" x 6"	8
			W16-8 Mod	60" x 10"		
		B2	M4-10L	48" x 18"	1-4" x 6"	2
			W16-8 Mod	60" x 10"		
		B3	M4-10R	48" x 18"	1-4" x 6"	2
			W16-8 Mod	60" x 10"		
		B4	M6-2 Mod	21" x 15"	1-4" x 6"	2
			M4-8	24" x 12"		
			W16-8 Mod	60" x 10"		

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS QUANTITIES

SHEET No.	STAGE	SIGN No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS	
					No. OF POSTS AND SIZE	No. OF SIGNS
TH-11	2B.1, 2C.1, 3A.1, 3D.2, 3E	A	M4-8A	18" x 24"	1-4" x 6"	2
		CH	SC10(CA) Mod	78" x 42"	2-4" x 6"	5
		NU		138" x 54"	1-6" x 8"	1
		RS	SC6-4(CA) Mod	68" x 72"	2-6" x 6"	3
		C1	SC3-1(CA)	48" x 18"	1-6" x 6"	9
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		C2	M4-10L	48" x 18"	1-6" x 6"	2
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		C3	M4-10R	48" x 18"	1-6" x 6"	4
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		E1	SC3-1(CA)	48" x 18"	1-4" x 6"	1
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		E2	M4-10L	48" x 18"	1-4" x 6"	1
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		S1	SC3-1(CA)	48" x 18"	1-4" x 6"	4
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
		S2	M4-10L	48" x 18"	1-4" x 6"	1
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		

TRAFFIC HANDLING QUANTITIES

THQ-3

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 => 05:53

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trstrk
DGN FILE => c07163mf003.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	952	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

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS QUANTITIES

SHEET No.	STAGE	SIGN No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS	
					No. OF POSTS AND SIZE	No. OF SIGNS
TH-12	2A, 2B.1, 2C.1, 3A.1, 3A.2, 3B, 3C, 3D.1, 3D.2, 3E	A	M4-8A	18" x 24"	1-4" x 6"	2
		CF	SC10(CA) Mod	78" x 42"	2-4" x 6"	3
		RS	SC6-4(CA) Mod	68" x 72"	2-6" x 6"	1
		SH	SC7(CA) Mod	84" x 54"	2-6" x 6"	1
		SJ	SC7(CA) Mod	84" x 54"	2-6" x 6"	2
		B1	SC3-1(CA)	48" x 18"	1-4" x 6"	5
			W16-8 Mod	60" x 10"		
		B2	M4-10L	48" x 18"	1-4" x 6"	2
			W16-8 Mod	60" x 10"		
		B3	M4-10R	48" x 18"	1-4" x 6"	2
			W16-8 Mod	60" x 10"		
		B4	M6-2 Mod	21" x 15"	1-4" x 6"	3
			M4-8	24" x 12"		
			W16-8 Mod	60" x 10"		
TH-13	1A.1, 1B.3, 2A, 2B.1, 2C.1, 2D.1, 2D.2	CG	SC10(CA) Mod	78" x 42"	2-4" x 6"	6
		RS	SC6-4(CA) Mod	68" x 72"	2-6" x 6"	3
		F1	SC3-1(CA)	48" x 18"	1-6" x 6"	7
			M1-1	30" x 24"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		F2	M4-10L	48" x 18"	1-6" x 6"	1
			M1-1	30" x 24"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		F3	M4-10R	48" x 18"	1-6" x 6"	3
			M1-1	30" x 24"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N1	SC3-1(CA)	48" x 18"	1-4" x 6"	5
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N3	M4-10R	48" x 18"	1-4" x 6"	2
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N4	M6-2 Mod	21" x 15"	1-4" x 6"	2
			M4-8	24" x 12"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N5	SC3-1(CA)	48" x 18"	1-4" x 6"	2
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N6	M4-10L	48" x 18"	1-4" x 6"	4
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N7	M4-10R	48" x 18"	1-4" x 6"	2
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS QUANTITIES

SHEET No.	STAGE	SIGN No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS	
					No. OF POSTS AND SIZE	No. OF SIGNS
TH-14	3A.1, 3B, 3C, 3D.1, 3D.2, 3E	CG	SC10(CA) Mod	78" x 42"	2-4" x 6"	6
		RS	SC6-4(CA) Mod	68" x 72"	2-6" x 6"	3
		F1	SC3-1(CA)	48" x 18"	1-6" x 6"	7
			M1-1	30" x 24"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		F2	M4-10L	48" x 18"	1-6" x 6"	1
			M1-1	30" x 24"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		F3	M4-10R	48" x 18"	1-6" x 6"	3
			M1-1	30" x 24"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N1	SC3-1(CA)	48" x 18"	1-4" x 6"	5
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N3	M4-10R	48" x 18"	1-4" x 6"	3
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N4	M6-2 Mod	21" x 15"	1-4" x 6"	2
			M4-8	24" x 12"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N5	SC3-1(CA)	48" x 18"	1-4" x 6"	2
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N6	M4-10L	48" x 18"	1-4" x 6"	4
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N7	M4-10R	48" x 18"	1-4" x 6"	2
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		

TRAFFIC HANDLING QUANTITIES

THQ-4

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 => 04-FEB-2010 | TIME PLOTTED => 05:53

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trstrk
DGN FILE => c07163mf004.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	953	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

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS QUANTITIES

SHEET No.	STAGE	SIGN No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS	
					No. OF POSTS AND SIZE	No. OF SIGNS
TH-15	1A.1, 2A, 2C.1, 2D.1, 2D.2	A	M4-8A	18" x 24"	1-4" x 6"	7
		CK	SC10(CA) Mod	78" x 42"	2-4" x 6"	7
		NT		138" x 54"	2-6" x 8"	2
		RE	SC6-4(CA) Mod	68" x 72"	2-6" x 6"	2
		B1	SC3-1(CA)	48" x 18"	1-4" x 6"	17
			W16-8 Mod	60" x 10"		
		B2	M4-10L	48" x 18"	1-4" x 6"	5
			W16-8 Mod	60" x 10"		
		B3	M4-10R	48" x 18"	1-4" x 6"	9
			W16-8 Mod	60" x 10"		
		C1	SC3-1(CA)	48" x 18"	1-6" x 6"	2
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		C2	M4-10L	48" x 18"	1-6" x 6"	1
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		D3	M4-10R	48" x 18"	1-6" x 6"	1
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		D5	M4-10R	48" x 18"	1-6" x 6"	2
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
		D6	SC3-1(CA)	48" x 18"	1-6" x 6"	1
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
		E1	SC3-1(CA)	48" x 18"	1-4" x 6"	2
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		E2	M4-10L	48" x 18"	1-4" x 6"	2
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		E3	M4-10R	48" x 18"	1-4" x 6"	2
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		G1	SC3-1(CA)	48" x 18"	1-6" x 6"	4
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			M3-3 Mod	24" x 12"		
		G2	M4-10L	48" x 18"	1-6" x 6"	2
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			M3-3 Mod	24" x 12"		
		G3	M4-10R	48" x 18"	1-6" x 6"	3
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			M3-3 Mod	24" x 12"		

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS QUANTITIES

SHEET No.	STAGE	SIGN No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS	
					No. OF POSTS AND SIZE	No. OF SIGNS
TH-15	1A.1, 2A, 2C.1, 2D.1, 2D.2	N1	SC3-1(CA)	48" x 18"	1-4" x 6"	3
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N2	M4-10L	48" x 18"	1-4" x 6"	1
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		S1	SC3-1(CA)	48" x 18"	1-4" x 6"	4
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
		S2	M4-10L	48" x 18"	1-4" x 6"	1
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
		S3	M4-10R	48" x 18"	1-4" x 6"	1
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
		W5	M4-10R	48" x 18"	1-4" x 6"	1
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		

TRAFFIC HANDLING QUANTITIES

THQ-5

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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BORDER LAST REVISED 8/1/2008

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USERNAME => trstrk
DGN FILE => c07163mf005.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	954	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

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS QUANTITIES

SHEET No.	STAGE	SIGN No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS	
					No. OF POSTS AND SIZE	No. OF SIGNS
TH-16	3A.1, 3B, 3C, 3D.1	A	M4-8A	18" x 24"	1-4" x 6"	7
		CK	SC10(CA) Mod	78" x 42"	2-4" x 6"	7
		NT		138" x 54"	2-6" x 8"	2
		RE	SC6-4(CA) Mod	68" x 72"	2-6" x 6"	2
		B1	SC3-1(CA)	48" x 18"	1-4" x 6"	17
			W16-8 Mod	60" x 10"		
		B2	M4-10L	48" x 18"	1-4" x 6"	5
			W16-8 Mod	60" x 10"		
		B3	M4-10R	48" x 18"	1-4" x 6"	9
			W16-8 Mod	60" x 10"		
		C1	SC3-1(CA)	48" x 18"	1-6" x 6"	2
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		C2	M4-10L	48" x 18"	1-6" x 6"	1
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		D3	M4-10R	48" x 18"	1-6" x 6"	1
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		D5	M4-10R	48" x 18"	1-6" x 6"	2
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
		D6	SC3-1(CA)	48" x 18"	1-6" x 6"	1
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
		E1	SC3-1(CA)	48" x 18"	1-4" x 6"	2
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		E2	M4-10L	48" x 18"	1-4" x 6"	2
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		E3	M4-10R	48" x 18"	1-4" x 6"	2
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		G1	SC3-1(CA)	48" x 18"	1-6" x 6"	4
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			M3-3 Mod	24" x 12"		
		G2	M4-10L	48" x 18"	1-6" x 6"	2
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			M3-3 Mod	24" x 12"		
		G3	M4-10R	48" x 18"	1-6" x 6"	3
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			M3-3 Mod	24" x 12"		

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS QUANTITIES

SHEET No.	STAGE	SIGN No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS	
					No. OF POSTS AND SIZE	No. OF SIGNS
TH-16	3A.1, 3B, 3C, 3D.1	N1	SC3-1(CA)	48" x 18"	1-4" x 6"	3
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N2	M4-10L	48" x 18"	1-4" x 6"	1
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		S1	SC3-1(CA)	48" x 18"	1-4" x 6"	4
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
		S2	M4-10L	48" x 18"	1-4" x 6"	1
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
		S3	M4-10R	48" x 18"	1-4" x 6"	1
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
		W5	M4-10R	48" x 18"	1-4" x 6"	1
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		

TRAFFIC HANDLING QUANTITIES

THQ-6

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

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BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trstrk DGN FILE => c07163mf006.dgn | CU 12235 | EA 071631

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS QUANTITIES

SHEET No.	STAGE	SIGN No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS	
					No. OF POSTS AND SIZE	No. OF SIGNS
TH-17	2A	CH	SC10(CA) Mod	78" x 42"	2-4" x 6"	1
		CJ	SC10(CA) Mod	78" x 42"	2-4" x 6"	2
		CL	SC10(CA) Mod	78" x 42"	2-4" x 6"	3
		SE	SC7(CA) Mod	84" x 54"	2-6" x 6"	1
		C1	SC3-1(CA)	48" x 18"	1-6" x 6"	5
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		C2	M4-10L	48" x 18"	1-6" x 6"	4
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		C3	M4-10R	48" x 18"	1-6" x 6"	3
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		C4	M6-2 Mod	21" x 15"	1-6" x 6"	5
			M4-8	24" x 12"		
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		D1	SC3-1(CA)	48" x 18"	1-6" x 6"	11
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		D2	M4-10L	48" x 18"	1-6" x 6"	3
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		D3	M4-10R	48" x 18"	1-6" x 6"	2
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		D4	M6-2 Mod	21" x 15"	1-6" x 6"	3
			M4-8	24" x 12"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		N5	SC3-1(CA)	48" x 18"	1-4" x 6"	2
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N7	M4-10R	48" x 18"	1-4" x 6"	1
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		S4	M6-2 Mod	21" x 15"	1-4" x 6"	1
			M4-8	24" x 12"		
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		

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	955	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

TRAFFIC HANDLING QUANTITIES

THQ-7

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

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USERNAME => trstrk
DGN FILE => c07163mf007.dgn

CU 12235

EA 071631

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS QUANTITIES

SHEET No.	STAGE	SIGN No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS	
					No. OF POSTS AND SIZE	No. OF SIGNS
TH-18	3A.1	CH	SC10(CA) Mod	78" x 42"	2-4" x 6"	1
		CJ	SC10(CA) Mod	78" x 42"	2-4" x 6"	2
		CL	SC10(CA) Mod	78" x 42"	2-4" x 6"	3
		SE	SC7(CA) Mod	84" x 54"	2-6" x 6"	1
		C1	SC3-1(CA)	48" x 18"	1-6" x 6"	5
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		C2	M4-10L	48" x 18"	1-6" x 6"	4
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		C3	M4-10R	48" x 18"	1-6" x 6"	3
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		C4	M6-2 Mod	21" x 15"	1-6" x 6"	5
			M4-8	24" x 12"		
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		D1	SC3-1(CA)	48" x 18"	1-6" x 6"	11
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		D2	M4-10L	48" x 18"	1-6" x 6"	3
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		D3	M4-10R	48" x 18"	1-6" x 6"	2
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		D4	M6-2 Mod	21" x 15"	1-6" x 6"	3
			M4-8	24" x 12"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		N5	SC3-1(CA)	48" x 18"	1-4" x 6"	2
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N7	M4-10R	48" x 18"	1-4" x 6"	1
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		S4	M6-2 Mod	21" x 15"	1-4" x 6"	1
			M4-8	24" x 12"		
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		

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	956	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

TRAFFIC HANDLING QUANTITIES

THQ-8

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
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BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trstrk
DGN FILE => c07163mf008.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	957	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
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ORANGE, CA 92863-1584

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS QUANTITIES

SHEET No.	STAGE	SIGN No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS	
					No. OF POSTS AND SIZE	No. OF SIGNS
TH-19	2A, 2B.1, 2B.2, 2B.3, 2C.1, 2D.1, 3E	A	M4-8A	18" x 24"	1-4" x 6"	6
		CN	SC10(CA) Mod	78" x 42"	2-4" x 6"	10
		NT		138" x 54"	1-6" x 8"	3
		B1	SC3-1(CA)	48" x 18"	1-4" x 6"	17
			W16-8 Mod	60" x 10"		
		B2	M4-10L	48" x 18"	1-4" x 6"	9
			W16-8 Mod	60" x 10"		
		B3	M4-10R	48" x 18"	1-4" x 6"	5
			W16-8 Mod	60" x 10"		
		B4	M6-2 Mod	21" x 15"	1-4" x 6"	3
			M4-8	24" x 12"		
			W16-8 Mod	60" x 10"		
		D1	SC3-1(CA)	48" x 18"	1-6" x 6"	2
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		D3	M4-10R	48" x 18"	1-6" x 6"	2
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		E1	SC3-1(CA)	48" x 18"	1-4" x 6"	2
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		E2	M4-10L	48" x 18"	1-4" x 6"	1
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		E3	M4-10R	48" x 18"	1-4" x 6"	1
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS QUANTITIES

SHEET No.	STAGE	SIGN No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS	
					No. OF POSTS AND SIZE	No. OF SIGNS
TH-19	2A, 2B.1, 2B.2, 2B.3, 2C.1, 2D.1, 3E	N1	SC3-1(CA)	48" x 18"	1-4" x 6"	2
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N2	M4-10L	48" x 18"	1-4" x 6"	1
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N3	M4-10R	48" x 18"	1-4" x 6"	1
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N4	M6-2 Mod	21" x 15"	1-4" x 6"	1
			M4-8	24" x 12"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		S1	SC3-1(CA)	48" x 18"	1-4" x 6"	1
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
		S2	M4-10L	48" x 18"	1-4" x 6"	3
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
		S3	M4-10R	48" x 18"	1-4" x 6"	2
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
		S4	M6-2 Mod	21" x 15"	1-4" x 6"	2
			M4-8	24" x 12"		
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
		W3	M4-10R	48" x 18"	1-4" x 6"	1
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		

TRAFFIC HANDLING QUANTITIES

THQ-9

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 => 05:53

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trstrk
DGN FILE => c07163mf009.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	958	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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ORANGE COUNTY
TRANSPORTATION AUTHORITY
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ORANGE, CA 92863-1584

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS QUANTITIES

SHEET No.	STAGE	SIGN No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS	
					No. OF POSTS AND SIZE	No. OF SIGNS
TH-20	2A, 2B.1, 2C.1, 3A.1, 3C, 3D.1, 3D.2, 3E	A	M4-8A	18" x 24"	1-4" x 6"	4
		C1	SC10(CA) Mod	78" x 42"	2-4" x 6"	8
		D1	SC3-1(CA)	48" x 18"	1-6" x 6"	2
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		D2	M4-10L	48" x 18"	1-6" x 6"	1
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		D4	M6-2 Mod	21" x 15"	1-6" x 6"	1
			M4-8	24" x 12"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		F1	SC3-1(CA)	48" x 18"	1-6" x 6"	2
			M1-1	30" x 24"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		F4	M6-2 Mod	21" x 15"	1-6" x 6"	4
			M4-8	24" x 12"		
			M1-1	30" x 24"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS QUANTITIES

SHEET No.	STAGE	SIGN No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS	
					No. OF POSTS AND SIZE	No. OF SIGNS
TH-20	2A, 2B.1, 2C.1, 3A.1, 3C, 3D.1, 3D.2, 3E	H1	SC3-1(CA)	48" x 18"	1-6" x 6"	26
			M1-1	30" x 24"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		H2	M4-10L	48" x 18"	1-6" x 6"	10
			M1-1	30" x 24"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		H3	M4-10R	48" x 18"	1-6" x 6"	8
			M1-1	30" x 24"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		N4	M6-2 Mod	21" x 15"	1-4" x 6"	1
			M4-8	24" x 12"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N5	SC3-1(CA)	48" x 18"	1-4" x 6"	2
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N7	M4-10R	48" x 18"	1-4" x 6"	1
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		W1	SC3-1(CA)	48" x 18"	1-4" x 6"	2
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		W4	M6-2 Mod	21" x 15"	1-4" x 6"	3
			M4-8	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		

TRAFFIC HANDLING QUANTITIES

THQ-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 DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 05:53
08-10-09

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trstrk DGN FILE => c07163mf010.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	959	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

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS QUANTITIES

SHEET No.	STAGE	SIGN No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS	
					No. OF POSTS AND SIZE	No. OF SIGNS
TH-21	2A, 2B.1, 2C.1, 2C.2, 2D.1, 3A.1, 3A.2, 3B, 3C, 3D.1, 3D.2, 3E	A	M4-8A	18" x 24"	1-4" x 6"	3
		CC	SC10(CA) Mod	78" x 42"	2-4" x 6"	3
		CJ	SC10(CA) Mod	78" x 42"	2-4" x 6"	4
		SC	SC7(CA) Mod	84" x 54"	2-6" x 6"	1
		SE	SC7(CA) Mod	84" x 54"	2-6" x 6"	1
		C1	SC3-1(CA)	48" x 18"	1-6" x 6"	11
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		C2	M4-10L	48" x 18"	1-6" x 6"	6
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		C3	M4-10R	48" x 18"	1-6" x 6"	4
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		C4	M6-2 Mod	21" x 15"	1-6" x 6"	3
			M4-8	24" x 12"		
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		E2	M4-10L	48" x 18"	1-4" x 6"	1
			G28-1(CA)	28" x 25"		
			M3-2 Mod	24" x 12"		
		S1	SC3-1(CA)	48" x 18"	1-4" x 6"	2
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
		S4	M6-2 Mod	21" x 15"	1-4" x 6"	1
			M4-8	24" x 12"		
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		

TRAFFIC HANDLING QUANTITIES

THQ-11

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 => 04-FEB-2010 | TIME PLOTTED => 05:53

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trstrk | DGN FILE => c07163mf011.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	960	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

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS QUANTITIES

SHEET No.	STAGE	SIGN No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS	
					No. OF POSTS AND SIZE	No. OF SIGNS
TH-22	1A.1-1B.1, 2A, 3E	A	M4-8A	18" x 24"	1-4" x 6"	4
		CL	SC10(CA) Mod	78" x 42"	2-4" x 6"	6
		D1	SC3-1(CA)	48" x 18"	1-6" x 6"	9
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		D2	M4-10L	48" x 18"	1-6" x 6"	4
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		D3	M4-10R	48" x 18"	1-6" x 6"	2
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		D4	M6-2 Mod	21" x 15"	1-6" x 6"	3
			M4-8	24" x 12"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS QUANTITIES

SHEET No.	STAGE	SIGN No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS	
					No. OF POSTS AND SIZE	No. OF SIGNS
TH-22	1A.1-1B.1, 2A, 3E	H1	SC3-1(CA)	48" x 18"	1-6" x 6"	4
			M1-1	30" x 24"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		H2	M4-10L	48" x 18"	1-6" x 6"	3
			M1-1	30" x 24"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		H3	M4-10R	48" x 18"	1-6" x 6"	3
			M1-1	30" x 24"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		N1	SC3-1(CA)	48" x 18"	1-4" x 6"	2
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N3	M4-10R	48" x 18"	1-4" x 6"	1
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N5	SC3-1(CA)	48" x 18"	1-4" x 6"	3
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N6	M4-10L	48" x 18"	1-4" x 6"	1
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N7	M4-10R	48" x 18"	1-4" x 6"	1
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N8	M6-2 Mod	21" x 15"	1-4" x 6"	3
			M4-8	24" x 12"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		W1	SC3-1(CA)	48" x 18"	1-4" x 6"	1
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		

TRAFFIC HANDLING QUANTITIES

THQ-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 DATE PLOTTED => 04-FEB-2010
08-10-09 TIME PLOTTED => 05:54

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trstrk DGN FILE => c07163mf012.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	961	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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ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS QUANTITIES

SHEET No.	STAGE	SIGN No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS	
					No. OF POSTS AND SIZE	No. OF SIGNS
TH-23	1A.1, 1A.2, 1B.1, 2A, 2C.1, 3E	A	M4-8A	18" x 24"	1-4" x 6"	2
		CC	SC10(CA) Mod	78" x 42"	2-4" x 6"	4
		CL	SC10(CA) Mod	78" x 42"	2-4" x 6"	2
		SC	SC7(CA) Mod	84" x 54"	2-6" x 6"	1
		SE	SC7(CA) Mod	84" x 54"	2-6" x 6"	1
		SR	SC7(CA) Mod	84" x 54"	2-6" x 6"	2
		S1	SC3-1(CA)	48" x 18"	1-4" x 6"	16
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
		S2	M4-10L	48" x 18"	1-4" x 6"	6
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
		S3	M4-10R	48" x 18"	1-4" x 6"	4
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
		S4	M6-2 Mod	21" x 15"	1-4" x 6"	5
			M4-8	24" x 12"		
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
TH-24	1A.2, 2A, 2C.1, 2D.1, 3A.1, 3B, 3C, 3E	A	M4-8A	18" x 24"	1-4" x 6"	4
		CL	SC10(CA) Mod	78" x 42"	2-4" x 6"	6
		F1	SC3-1(CA)	48" x 18"	1-6" x 6"	16
			M1-1	30" x 24"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		F2	M4-10L	48" x 18"	1-6" x 6"	5
			M1-1	30" x 24"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		F3	M4-10R	48" x 18"	1-6" x 6"	7
			M1-1	30" x 24"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		F4	M6-2 Mod	21" x 15"	1-6" x 6"	3
			M4-8	24" x 12"		
			M1-1	30" x 24"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N1	SC3-1(CA)	48" x 18"	1-4" x 6"	4
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N2	M4-10L	48" x 18"	1-4" x 6"	2
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N5	SC3-1(CA)	48" x 18"	1-4" x 6"	2
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N7	M4-10R	48" x 18"	1-4" x 6"	1
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS QUANTITIES

SHEET No.	STAGE	SIGN No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS	
					No. OF POSTS AND SIZE	No. OF SIGNS
TH-25	1A.2, 2A, 2C.1, 2D.1, 3A.1, 3B, 3C, 3E	A	M4-8A	18" x 24"	1-4" x 6"	1
		CL	SC10(CA) Mod	78" x 42"	2-4" x 6"	2
		S1	SC3-1(CA)	48" x 18"	1-4" x 6"	5
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
		S2	M4-10L	48" x 18"	1-4" x 6"	2
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
		S3	M4-10R	48" x 18"	1-4" x 6"	3
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
		S4	M6-2 Mod	21" x 15"	1-4" x 6"	2
			M4-8	24" x 12"		
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
TH-26	1A.2, 1B.1, 1B.4, 2A, 2B.1, 3A.1, 3E	A	M4-8A	18" x 24"	1-4" x 6"	2
		CD	SC10(CA) Mod	78" x 42"	2-4" x 6"	7
		SF	SC7(CA) Mod	84" x 54"	2-6" x 6"	1
		SN	SC7(CA) Mod	84" x 54"	2-6" x 6"	1
		N5	SC3-1(CA)	48" x 18"	1-4" x 6"	11
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N6	M4-10L	48" x 18"	1-4" x 6"	3
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N7	M4-10R	48" x 18"	1-4" x 6"	5
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
		N8	M6-2 Mod	21" x 15"	1-4" x 6"	3
			M4-8	24" x 12"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		

TRAFFIC HANDLING QUANTITIES

THQ-13

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
08-10-09 | TIME PLOTTED => 05:54

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trstrk | DGN FILE => c07163mf013.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	962	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

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS QUANTITIES

SHEET No.	STAGE	SIGN No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS	
					No. OF POSTS AND SIZE	No. OF SIGNS
TH-27	1B.1, 2A, 3E	A	M4-8A	18" x 24"	1-4" x 6"	5
		CM	SC10(CA) Mod	78" x 42"	2-4" x 6"	1
		SC	SC7(CA) Mod	84" x 54"	2-6" x 6"	1
		SR	SC7(CA) Mod	84" x 54"	2-6" x 6"	2
		SU	SC7(CA) Mod	84" x 54"	2-6" x 6"	1
		D1	SC3-1(CA)	48" x 18"	1-6" x 6"	4
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		D2	M4-10L	48" x 18"	1-6" x 6"	2
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		D3	M4-10R	48" x 18"	1-6" x 6"	1
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		D4	M6-2 Mod	21" x 15"	1-6" x 6"	3
			M4-8	24" x 12"		
			M1-1	30" x 24"		
			M3-1 Mod	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		S1	SC3-1(CA)	48" x 18"	1-4" x 6"	11
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
		S2	M4-10L	48" x 18"	1-4" x 6"	2
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
		S3	M4-10R	48" x 18"	1-4" x 6"	2
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
		S4	M6-2 Mod	21" x 15"	1-4" x 6"	2
			M4-8	24" x 12"		
			M1-1	30" x 24"		
			M3-3 Mod	24" x 12"		
		W1	SC3-1(CA)	48" x 18"	1-4" x 6"	3
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		W2	M4-10L	48" x 18"	1-4" x 6"	1
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		
		W4	M6-2 Mod	21" x 15"	1-4" x 6"	1
			M4-8	24" x 12"		
			G28-1(CA)	28" x 25"		
			M3-4 Mod	24" x 12"		

TRAFFIC HANDLING QUANTITIES

THQ-14

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
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USERNAME => trstrk
DGN FILE => c07163mf014.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	963	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

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS QUANTITIES

SHEET No.	STAGE	SIGN No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS		SIGNS MOUNTED ON TYPE II BARRICADE
					No. OF POSTS AND SIZE	No. OF SIGNS	TYPE II BARRICADE
						EA	EA
TH-28	3E	A	M4-8A	18" × 24"	1-4" × 6"	1	
		CR	SC10(CA) Mod	78" × 54"	2-6" × 6"	1	
		RV	SC6(CA) Mod	68" × 84"	2-6" × 6"	1	
		SX	SC7(CA) Mod	84" × 66"	2-6" × 6"	1	
		L1	M4-10R	48" × 18"	1-4" × 6"	1	
			W16-8 Mod	38" × 10"			
		K5	SC3-1(CA)	48" × 18"	1-4" × 6"	2	
			W16-8 Mod	44" × 10"			
			W16-8 Mod	38" × 10"			
		K6	M4-10L	48" × 18"	1-4" × 6"	2	
			W16-8 Mod	44" × 10"			
			W16-8 Mod	38" × 10"			
		K7	M6-2 Mod	21" × 15"	1-4" × 6"	1	
			M4-8	24" × 12"			
			W16-8 Mod	44" × 10"			
			W16-8 Mod	38" × 10"			
TH-29	3E	A	M4-8A	18" × 24"	1-4" × 6"	1	
		CQ	SC10(CA) Mod	78" × 54"	2-6" × 6"	4	
		RT	SC6-4(CA) Mod	56" × 72"	2-6" × 6"	2	
		N5	SC3-1(CA)	48" × 18"	1-4" × 6"	3	
			M1-1	30" × 24"			
			M3-1 Mod	24" × 12"			
		N6	M4-10L	48" × 18"	1-4" × 6"	4	
			M1-1	30" × 24"			
			M3-1 Mod	24" × 12"			
		N7	M4-10R	48" × 18"	1-4" × 6"	3	
			M1-1	30" × 24"			
			M3-1 Mod	24" × 12"			
		N8	M6-2 Mod	21" × 15"	1-4" × 6"	1	
			M4-8	24" × 12"			
			M1-1	30" × 24"			
			M3-1 Mod	24" × 12"			

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS QUANTITIES

SHEET No.	STAGE	SIGN No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS		SIGNS MOUNTED ON TYPE II BARRICADE
					No. OF POSTS AND SIZE	No. OF SIGNS	TYPE II BARRICADE
						EA	EA
TH-30	3E	A	M4-8A	18" × 24"	1-4" × 6"	1	
		CP	SC10(CA) Mod	78" × 42"	2-6" × 6"	1	
		RT	SC6-4(CA) Mod	68" × 72"	2-6" × 6"	1	
		SW	SC7(CA) Mod	84" × 54"	2-6" × 6"	1	
		K1	SC3-1(CA)	48" × 18"	1-4" × 6"	2	
			W16-8 Mod	44" × 10"			
		K2	M4-10L	48" × 18"	1-4" × 6"	1	
			W16-8 Mod	44" × 10"			
		K3	M4-10R	48" × 18"	1-4" × 6"	1	
			W16-8 Mod	44" × 10"			
		K4	M6-2 Mod	21" × 15"	1-4" × 6"	1	
			M4-8	24" × 12"			
			W16-8 Mod	44" × 10"			
TH-31	3E	A	M4-8A	18" × 24"	1-4" × 6"	3	
		CS	SC10(CA) Mod	78" × 54"	2-6" × 6"	2	
		RU	SC6-4(CA) Mod	68" × 72"	2-6" × 6"	1	
		C1	SC3-1(CA)	48" × 18"	1-4" × 6"	2	
			M1-1	30" × 24"			
			M3-3 Mod	24" × 12"			
			G28-1(CA)	28" × 25"			
			M3-2 Mod	24" × 12"			
		I1	SC3-1(CA)	48" × 18"	1-4" × 6"	5	
			M1-1	30" × 24"			
			G28-1(CA)	28" × 25"			
			M3-4 Mod	24" × 12"			
		I2	M4-10R	48" × 18"	1-4" × 6"	2	
			M1-1	30" × 24"			
			G28-1(CA)	28" × 25"			
			M3-4 Mod	24" × 12"			
		S2	M4-10L	48" × 18"	1-4" × 6"	1	
			M1-1	30" × 24"			
			M3-3 Mod	24" × 12"			
		W3	M4-10R	48" × 18"	1-4" × 6"	1	
			G28-1(CA)	28" × 25"			
			M3-4 Mod	24" × 12"			

TRAFFIC HANDLING QUANTITIES

THQ-15

REVISED BY	DATE REVISED
KLA	12/22/09

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CONSULTANT FUNCTIONAL SUPERVISOR: LEONARD SEQUEIRA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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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	964	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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STATIONARY MOUNTED CONSTRUCTION AREA SIGNS QUANTITIES

SHEET No.	STAGE	SIGN No.	SIGN CODE	PANEL SIZE	CONSTRUCTION AREA SIGNS		SIGNS MOUNTED ON TYPE II BARRICADE
					No. OF POSTS AND SIZE	No. OF SIGNS	TYPE II BARRICADE
						EA	EA
TH-32	2A	P1	M4-9BL	30" x 24"			4
		P2	M4-9BR	30" x 24"			1
		P3	R5-6	24" x 24"	1-4" x 4"	1	
		P5	R9-11L	48" x 36"			1
		P6	R9-11R	48" x 36"			1
TH-33	2B	P1	M4-9BL	30" x 24"			2
		P2	M4-9BR	30" x 24"			3
		P6	R9-11R	48" x 36"			2
TH-34	2C	P1	M4-9BL	30" x 24"			3
		P2	M4-9BR	30" x 24"			1
		P5	R9-11L	48" x 36"			3
		P6	R9-11R	48" x 36"			1
TH-35	2D.1	P1	M4-9BL	30" x 24"			1
		P2	M4-9BR	30" x 24"			1
		P5	R9-11L	48" x 36"			1
TH-36	3A.1-3A.2, 3C	P1	M4-9BL	30" x 24"			1
		P2	M4-9BR	30" x 24"			2
		P5	R9-11L	48" x 36"			1
		P6	R9-11R	48" x 36"			1
TH-37	3B.1-3B.2	P8	M4-9B	30" x 24"			1
TH-38	2A-3C	A	M4-8A	18" x 24"	1-4" x 6"	2	
		Z1	M4-9C Mod	30" x 24"	1-4" x 6"	17	
			W16-8 Mod	60" x 10"			
		Z2	M4-9C Mod	30" x 24"	1-4" x 6"	4	
			W16-8 Mod	60" x 10"			
		Z3	M4-9C Mod	30" x 24"	1-4" x 6"	5	
			W16-8 Mod	60" x 10"			
						TOTAL	31

PORTABLE CHANGEABLE MESSAGE SIGN QUANTITIES

SHEET No.	No. OF SIGNS
	EA
TH-1	3
TH-2	2
TH-3	2
TH-4	2
TH-5	1
TH-6	3
TH-7	1
TH-8	1
TH-9	5
TH-10	2
TH-11	
TH-12	3
TH-13	
TH-14	
TH-15	
TH-16	
TH-17	15
TH-18	15
TH-19	3
TH-20	4
TH-21	4
TH-22	3
TH-23	5
TH-24	3
TH-25	2
TH-26	3
TH-27	2
TH-28	1
TH-29	
TH-30	1
TH-31	
TH-32	
TH-33	
TH-34	
TH-35	
TH-36	
TH-37	
TH-38	
SC-77	1
SC-136	1
SC-197	1

TRAFFIC HANDLING QUANTITIES

THQ-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
Caltrans

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BORDER LAST REVISED 8/1/2008
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DGN FILE => c07163mf016.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	965	1929

David Lew 12/22/09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID LEW
No. C59063
Exp. 6/30/11
CIVIL
STATE OF CALIFORNIA

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IRVINE, CA 92618

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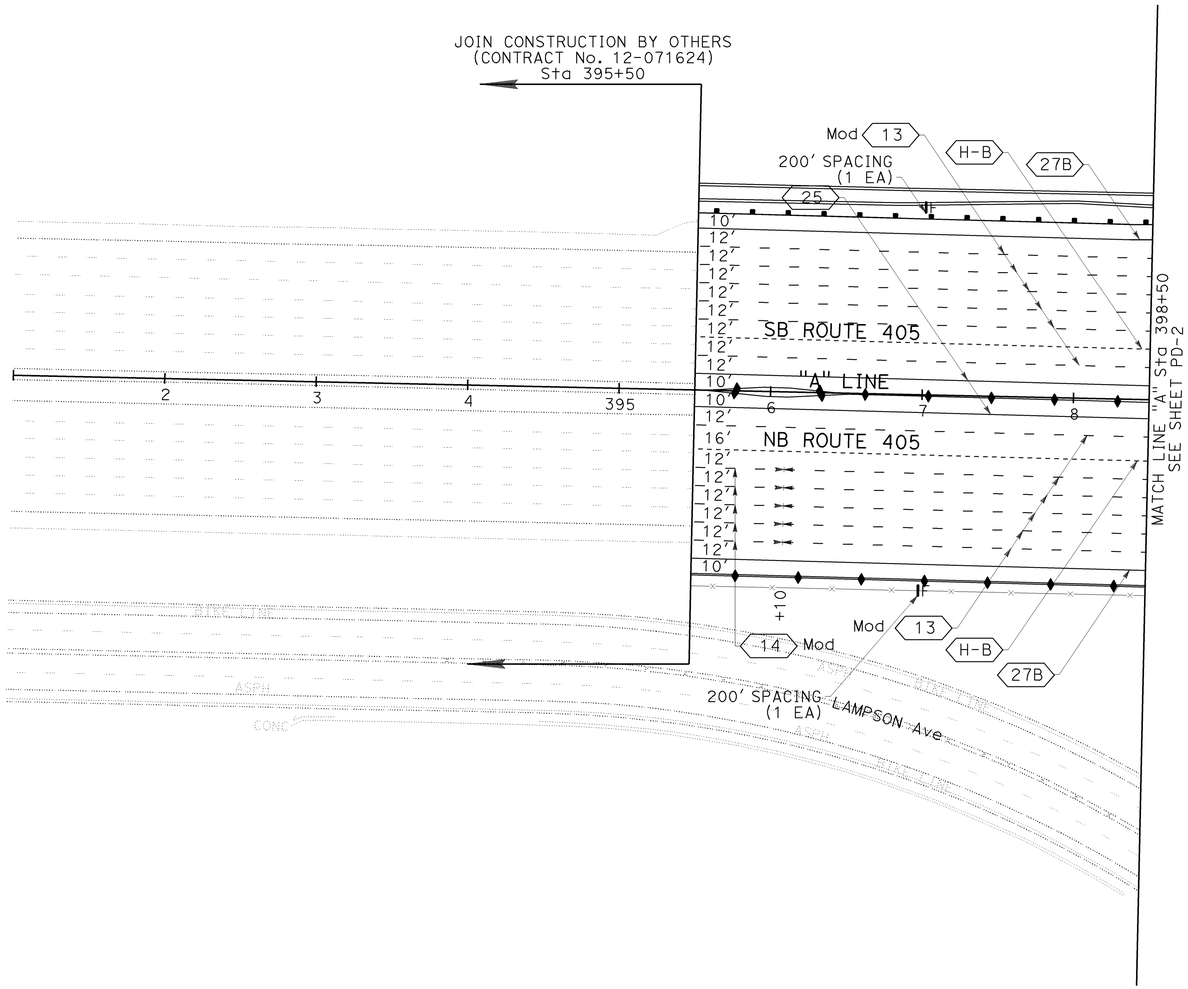
550 S. MAIN STREET
ORANGE, CA 92863-1584

LEGEND

- PM PAVEMENT MARKINGS
- XX PAVEMENT DELINEATION DETAIL No.
- DW 12" WHITE LINE DIAGONAL
- DY 12" YELLOW LINE DIAGONAL
- LL 12' WHITE LIMIT LINE
- CW 12" WHITE CROSSWALK
- A 4" WHITE LINE (SEE PAVEMENT DELINEATION DETAIL SHEET)
- H-X HIGH-OCCUPANCY VEHICLE PAVEMENT MARKING DETAIL (SEE PAVEMENT DELINEATION DETAILS)
- CHANGE IN PAVEMENT DELINEATION DETAIL
- F TYPE F DELINEATOR (CLASS 1)
- G TYPE G DELINEATOR (CLASS 1)
- △ ANGLE POINT
- B "BIKE" PAVEMENT MARKING
- L "LANE" PAVEMENT MARKING
- C "CAR" PAVEMENT MARKING
- P "POOL" PAVEMENT MARKING
- O "ONLY" PAVEMENT MARKING
- ◊ "DIAMOND SYMBOL" PAVEMENT MARKING

ABBREVIATIONS

Pkwy PARKWAY



NOTES:

1. REMOVE ALL CONFLICTING TRAFFIC STRIPES, PAVEMENT MARKINGS AND PAVEMENT MARKERS.
2. FOR MODIFIED DETAILS AND DETAILS NOT SHOWN IN STANDARD PLANS, SEE PDD SHEETS.
3. ALL TRAFFIC STRIPES AND PAVEMENT MARKINGS ARE THERMOPLASTIC UNLESS OTHERWISE NOTED.
4. PLACE ARROWS 8' BEFORE LIMIT LINE OR CROSSWALK.
5. ALL CROSSWALKS SHALL HAVE A 10' INSIDE WIDTH.
6. EXACT LOCATION OF PAVEMENT MARKINGS SHALL BE DETERMINED BY THE ENGINEER.
7. DIMENSIONS ALONG MEDIAN BARRIER ARE GIVEN TO FACE OF BARRIER, DIMENSIONS ALONG CURB AND GUTTER ARE GIVEN TO FACE OF CURB.
8. BLACK STRIPES ARE PAINT (2 COAT).
9. FOR REMOVE THERMOPLASTIC STRIPE (HAZARDOUS WASTE), SEE REMOVAL PLANS SHEETS C-1 TO C-21.

PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-1

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY.

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
NIRUPA KANNAN	DAVID LEW	DBL	12/22/09

CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 07:04
12-22-09

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	966	1929

David Lew 12/22/09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID LEW
No. C59063
Exp. 6/30/11
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STATE OF CALIFORNIA

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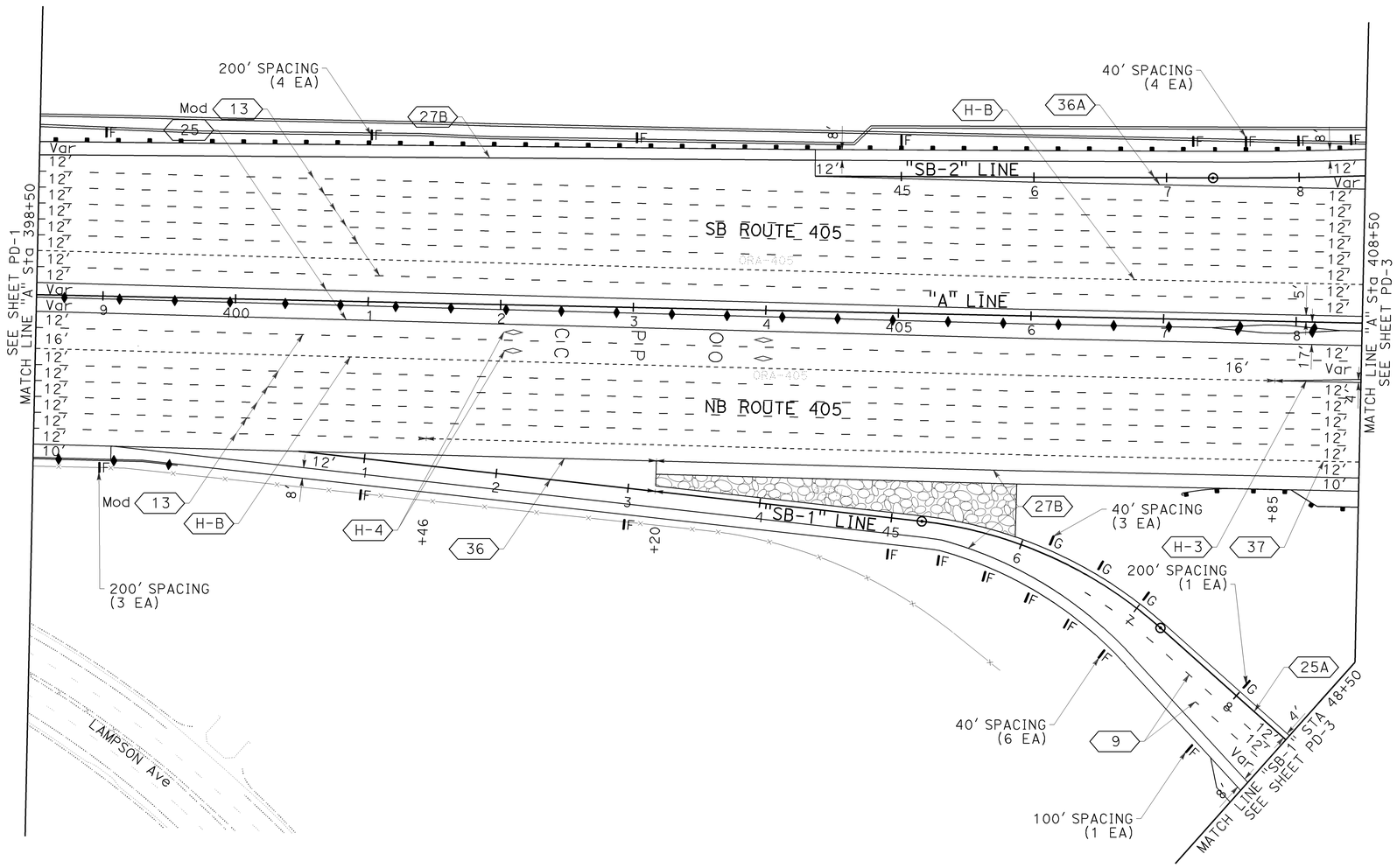

PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-2

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CALCULATED-DESIGNED BY	NIRUPA KANNAN	DBL
CONSULTANT FUNCTIONAL SUPERVISOR	CHECKED BY	DAVID LEW	12/22/09
ROSS LEW		REVISED BY	DATE REVISED

LAST REVISION DATE PLOTTED => 04-FEB-2010
12-22-09 TIME PLOTTED => 07:04

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trcarol DGN FILE => c07163na002.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	967	1929

David Lew 8/10/09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DAVID LEW No. C59063 Exp. 6/30/11 CIVIL STATE OF CALIFORNIA

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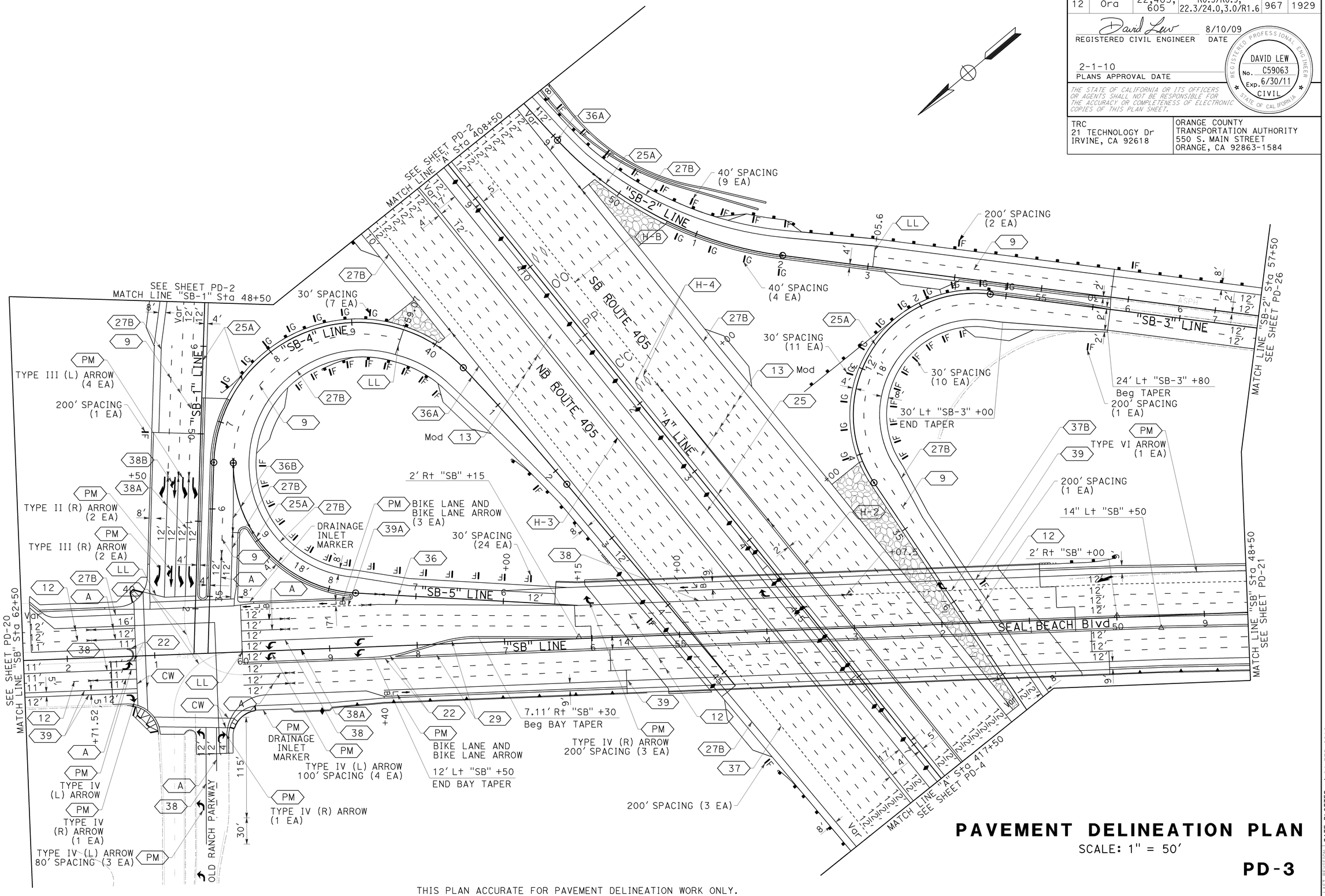
IRVINE, CA 92618

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



PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-3

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW
CALCULATED-DESIGNED BY: NIRUPA KANNAN
CHECKED BY: DAVID LEW
REVISED BY: DBL
DATE REVISED: 8/10/09

LAST REVISION 08-10-09
DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 07:04

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	968	1929

David Lew
REGISTERED CIVIL ENGINEER — 8/10/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DAVID LEW No. C59063 Exp. 6/30/11 CIVIL — STATE OF CALIFORNIA

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IRVINE, CA 92618

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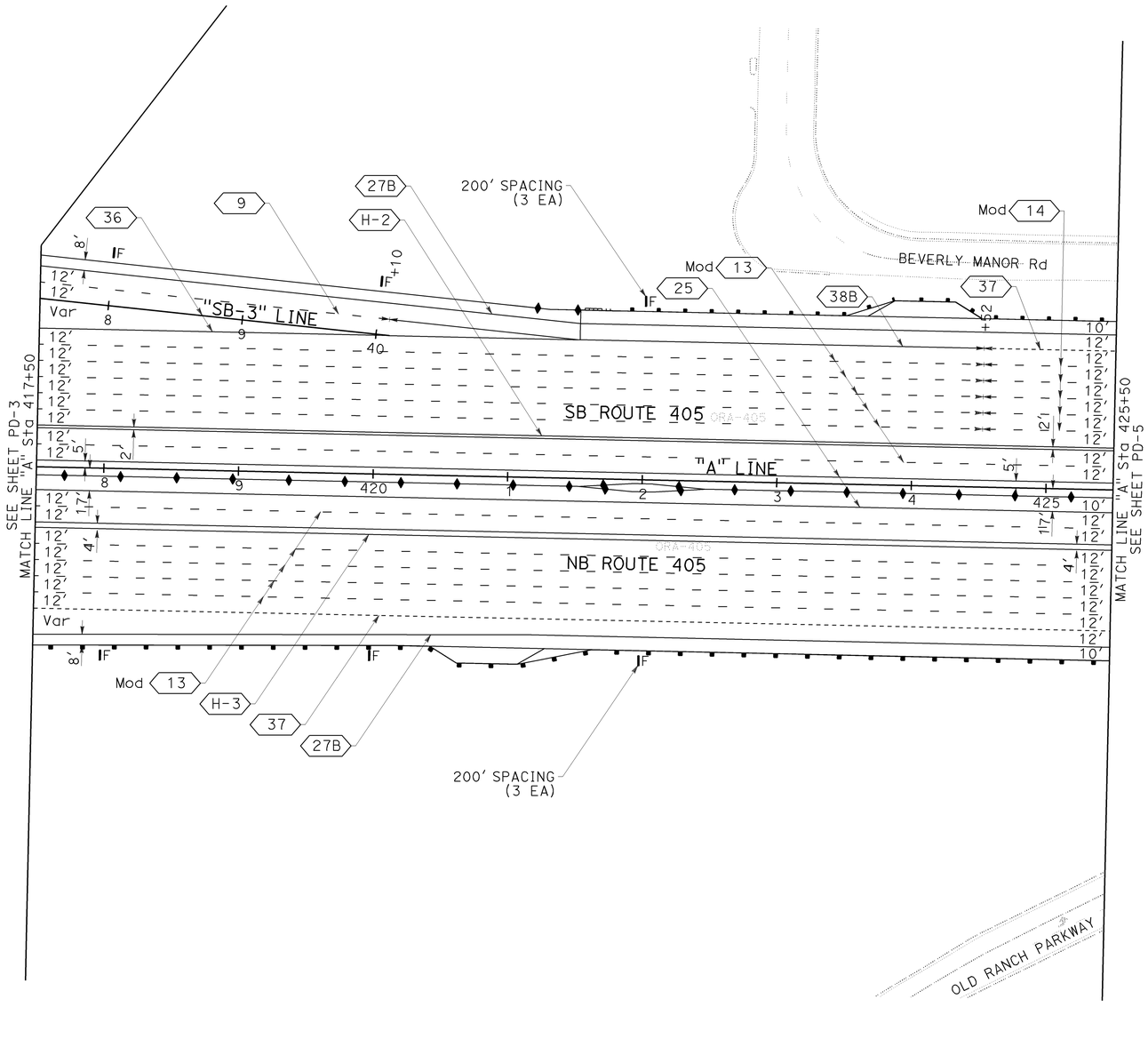
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584



PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-4

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY.

LAST REVISION DATE PLOTTED => 14-APR-2010
08-10-09 TIME PLOTTED => 13:25

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW

CALCULATED-DESIGNED BY: NIRUPA KANNAN
CHECKED BY: DAVID LEW
REVISED BY: DBL
DATE REVISED: 8/10/09

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trstrk
DGN FILE => c07163na004.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	969	1929

David Lew
REGISTERED CIVIL ENGINEER — 8/10/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DAVID LEW No. C59063 Exp. 6/30/11 CIVIL — STATE OF CALIFORNIA

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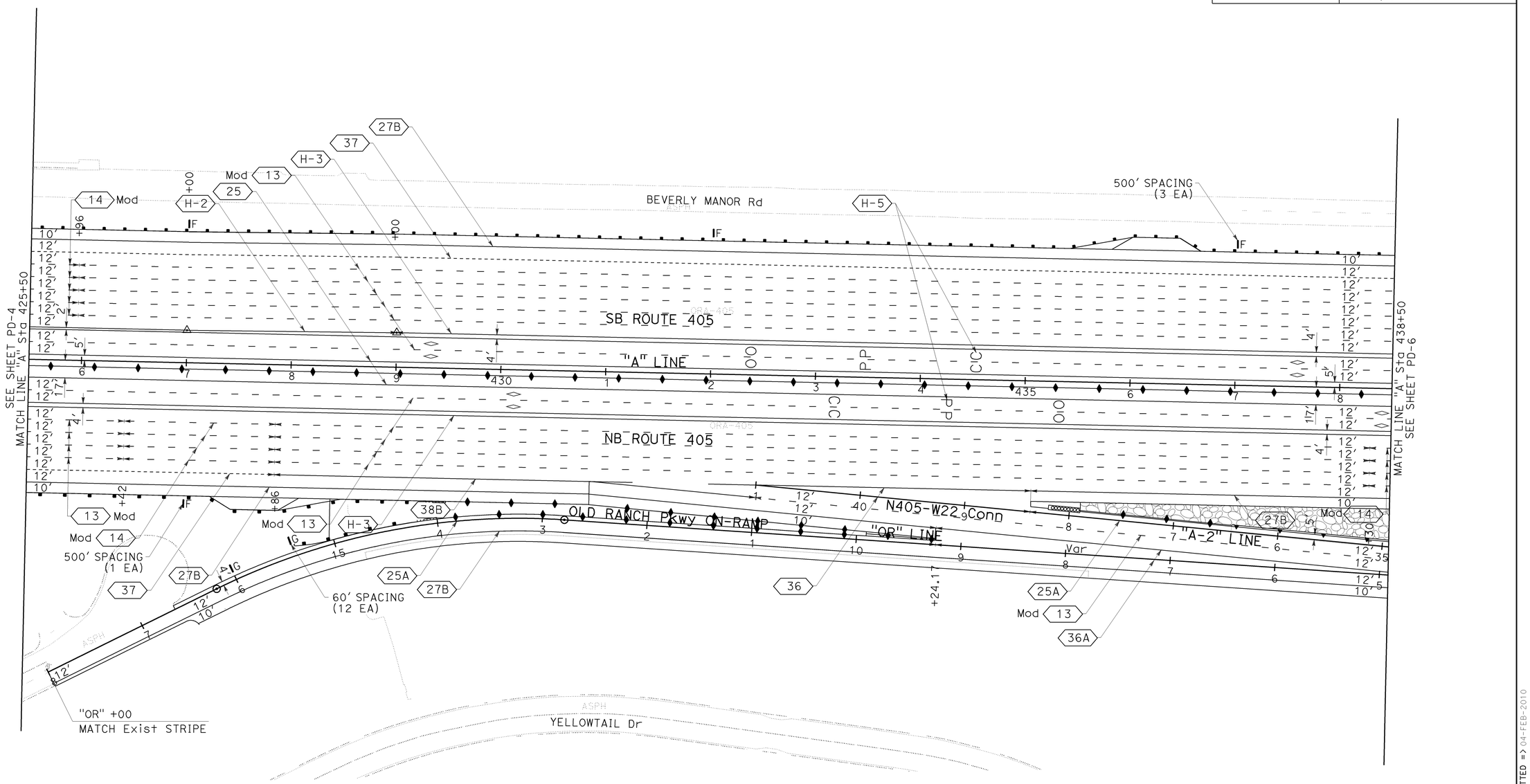
550 S. MAIN STREET
ORANGE, CA 92863-1584



PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-5

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW
CALCULATED-DESIGNED BY: NIRUPA KANNAN
CHECKED BY: DAVID LEW
REVISED BY: DBL
DATE REVISED: 8/10/09

LAST REVISION DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 07:04
08-10-09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trcarol
DGN FILE => c071163na005.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	970	1929

David Lew 8/10/09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID LEW
No. C59063
Exp. 6/30/11
CIVIL
STATE OF CALIFORNIA

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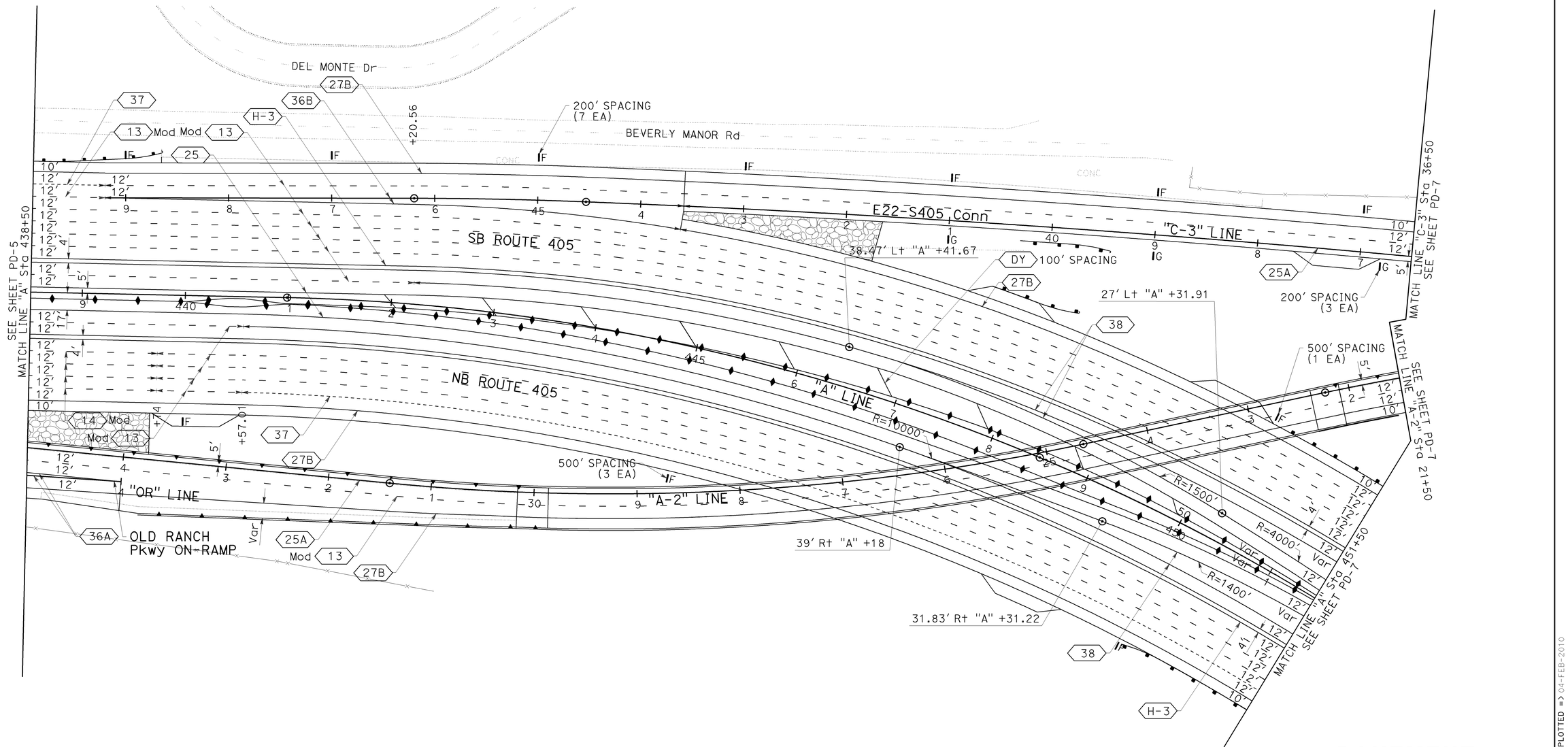
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584



PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-6

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY.

BORDER LAST REVISED 8/1/2008	RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3	USERNAME => trcarol DGN FILE => c07163na006.dgn	CU 12235 / EA 071631

LAST REVISION 08-10-09 | DATE PLOTTED => 04-FEB-2010 | TIME PLOTTED => 07:04

CALCULATED-DESIGNED BY	CHECKED BY
NIRUPA KANNAN	DAVID LEW

REVISED BY	DATE REVISED
DBL	8/10/09

CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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	971	1929

David Lew 12/22/09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID LEW
No. C59063
Exp. 6/30/11
CIVIL
STATE OF CALIFORNIA

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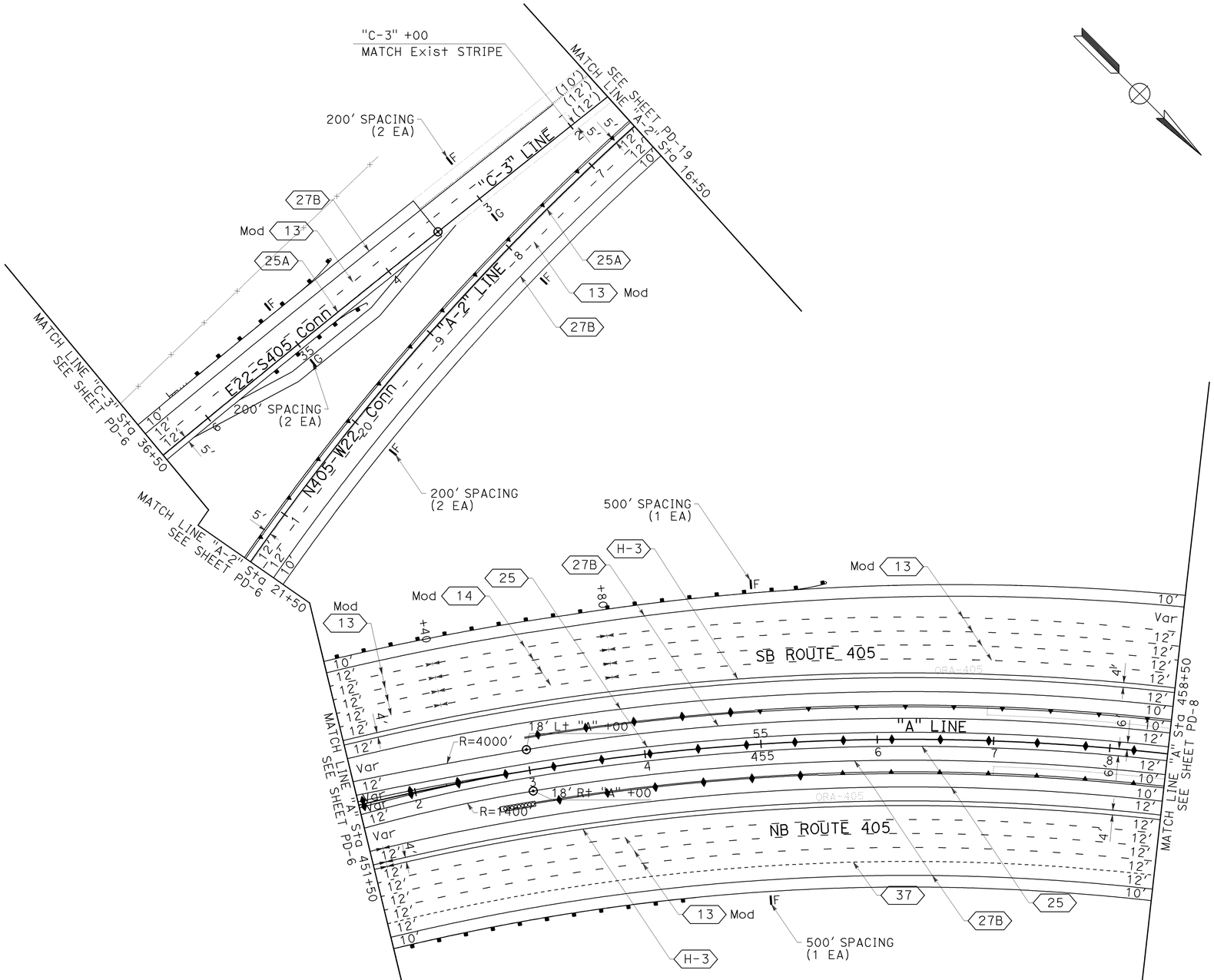
IRVINE, CA 92618

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



PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-7

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY.

CALCULATED-DESIGNED BY	REVISED BY	DBL	12/22/09
CHECKED BY	DATE REVISED		
NIRUPA KANNAN			
DAVID LEW			
CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW			
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION			
Caltrans			

LAST REVISION 12-22-09 | DATE PLOTTED => 04-FEB-2010 | TIME PLOTTED => 07:04

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trcarol DGN FILE => c07163na007.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	972	1929

David Lew
REGISTERED CIVIL ENGINEER — 8/10/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DAVID LEW No. C59063 Exp. 6/30/11 CIVIL — STATE OF CALIFORNIA

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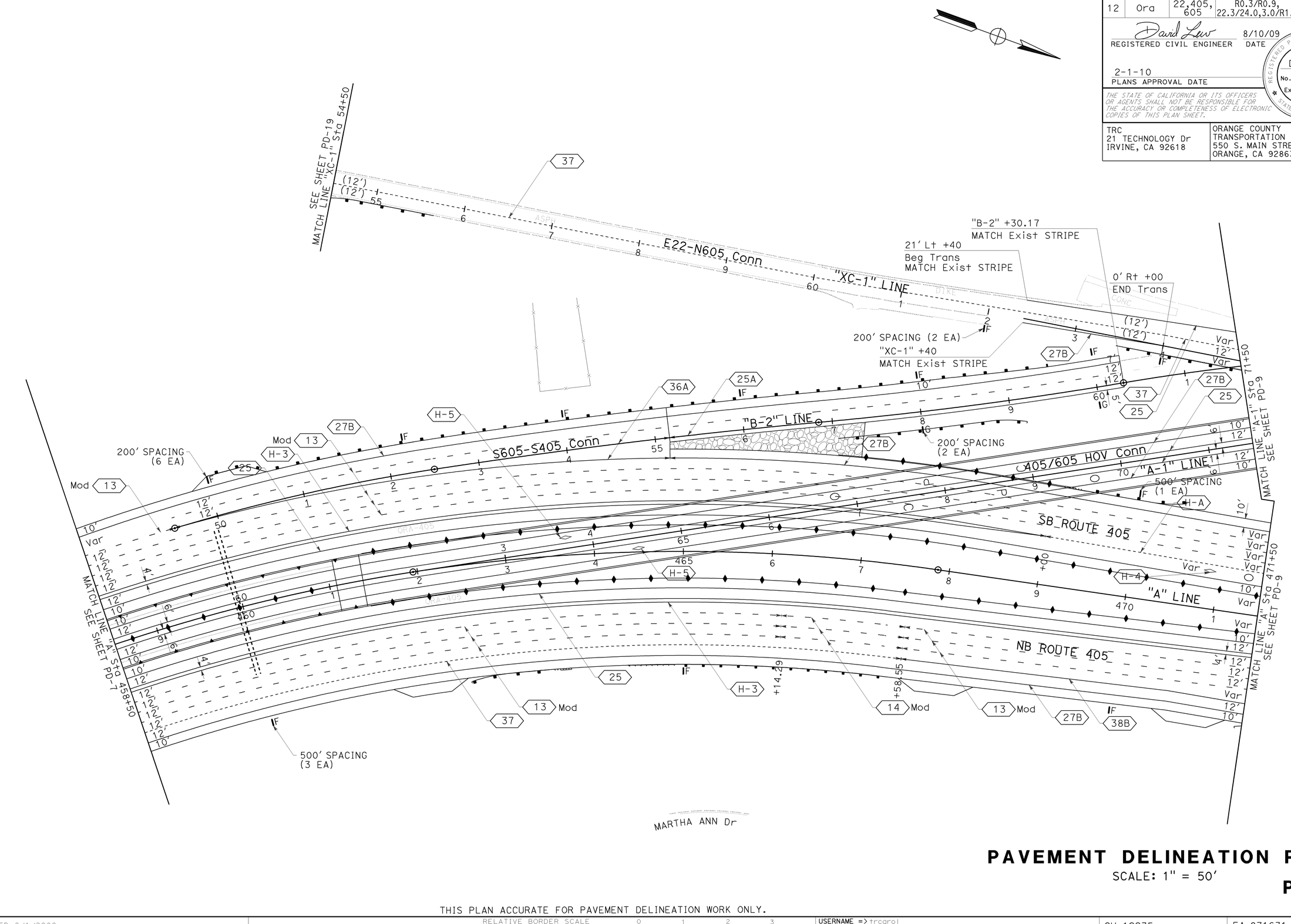
21 TECHNOLOGY Dr
IRVINE, CA 92618

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



PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-8

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW
CALCULATED-DESIGNED BY: NIRUPA KANNAN
CHECKED BY: DAVID LEW
REVISED BY: DBL
DATE REVISED: 8/10/09

LAST REVISION DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 07:05
08-10-09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trcarol
DGN FILE => c07163na008.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	973	1929

David Lew 12/22/09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DAVID LEW No. C59063 Exp. 6/30/11 CIVIL — STATE OF CALIFORNIA

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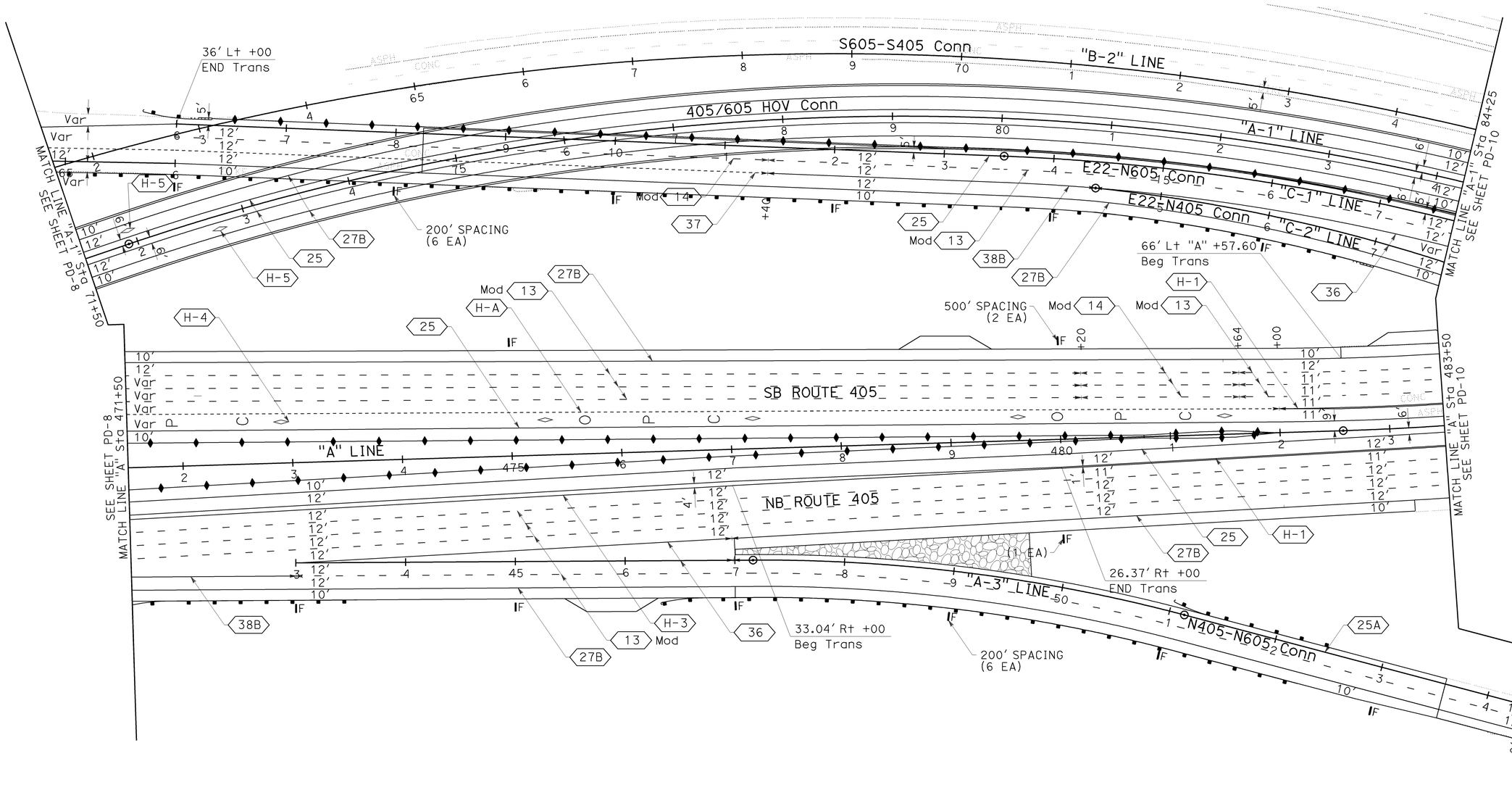
IRVINE, CA 92618

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



PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-9

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW
CALCULATED-DESIGNED BY: NIRUPA KANNAN
CHECKED BY: DAVID LEW
REVISED BY: DBL
DATE REVISED: 12/22/09

LAST REVISION DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 07:05

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trcarol
DGN FILE => c07163na009.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	974	1929

David Lew 12/22/09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DAVID LEW No. C59063 Exp. 6/30/11 CIVIL — STATE OF CALIFORNIA

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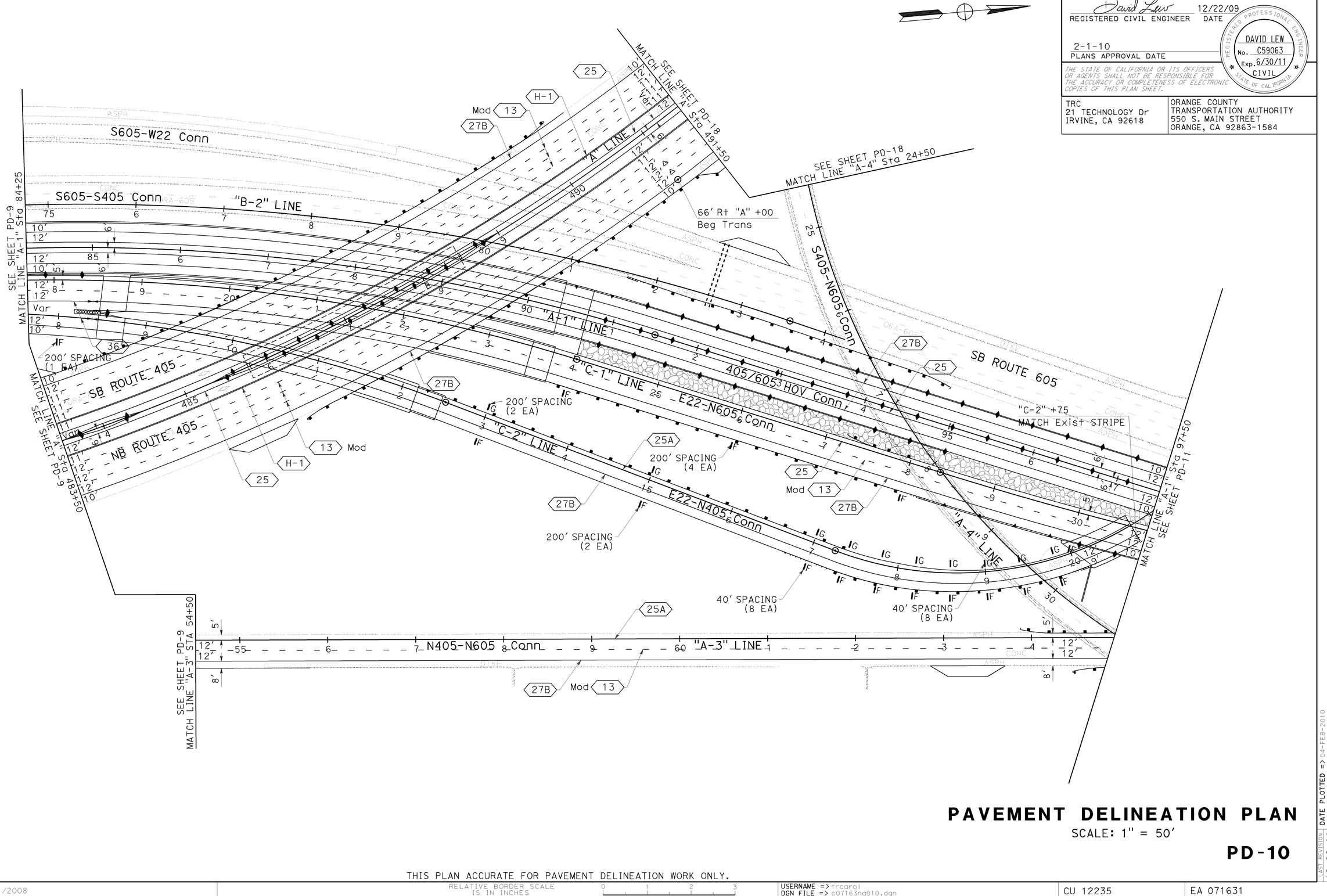
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584



PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-10

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW
CALCULATED-DESIGNED BY: NIRUPA KANNAN
CHECKED BY: DAVID LEW
REVISED BY: DBL
DATE REVISED: 12/22/09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trcarol
DGN FILE => c07163na010.dgn
CU 12235
EA 071631
LAST REVISION DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 07:05
12-22-09

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	975	1929

David Lew 12/22/09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID LEW
No. C59063
Exp. 6/30/11
CIVIL
STATE OF CALIFORNIA

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IRVINE, CA 92618

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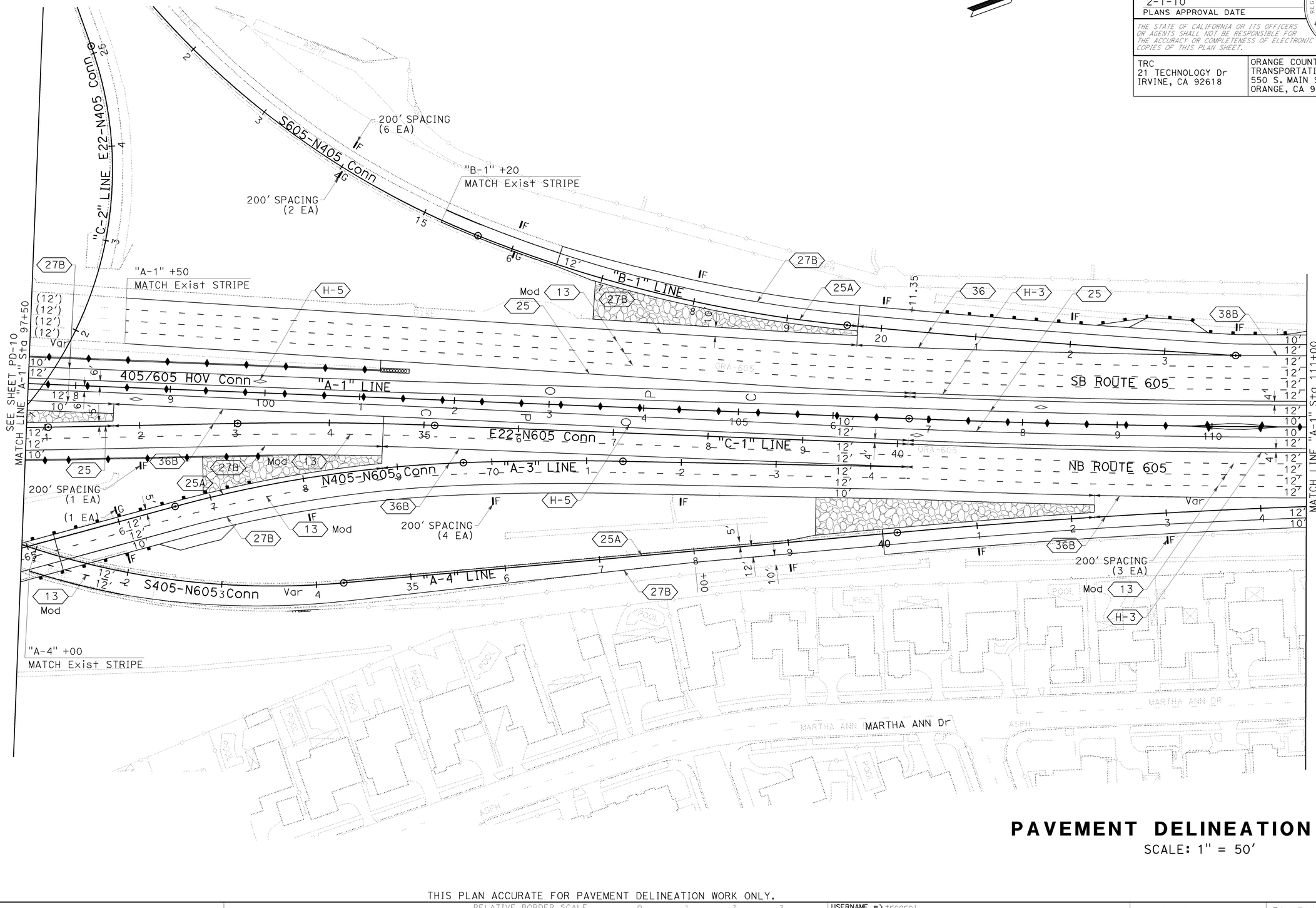
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584



PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-11

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW
CALCULATED-DESIGNED BY: NIRUPA KANNAN
CHECKED BY: DAVID LEW
REVISED BY: DBL
DATE REVISED: 12/22/09

LAST REVISION: DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 07:05
12-22-09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trcarol
DGN FILE => c07163na011.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	976	1929

David Lew
REGISTERED CIVIL ENGINEER — 8/10/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DAVID LEW No. C59063 Exp. 6/30/11 CIVIL — STATE OF CALIFORNIA

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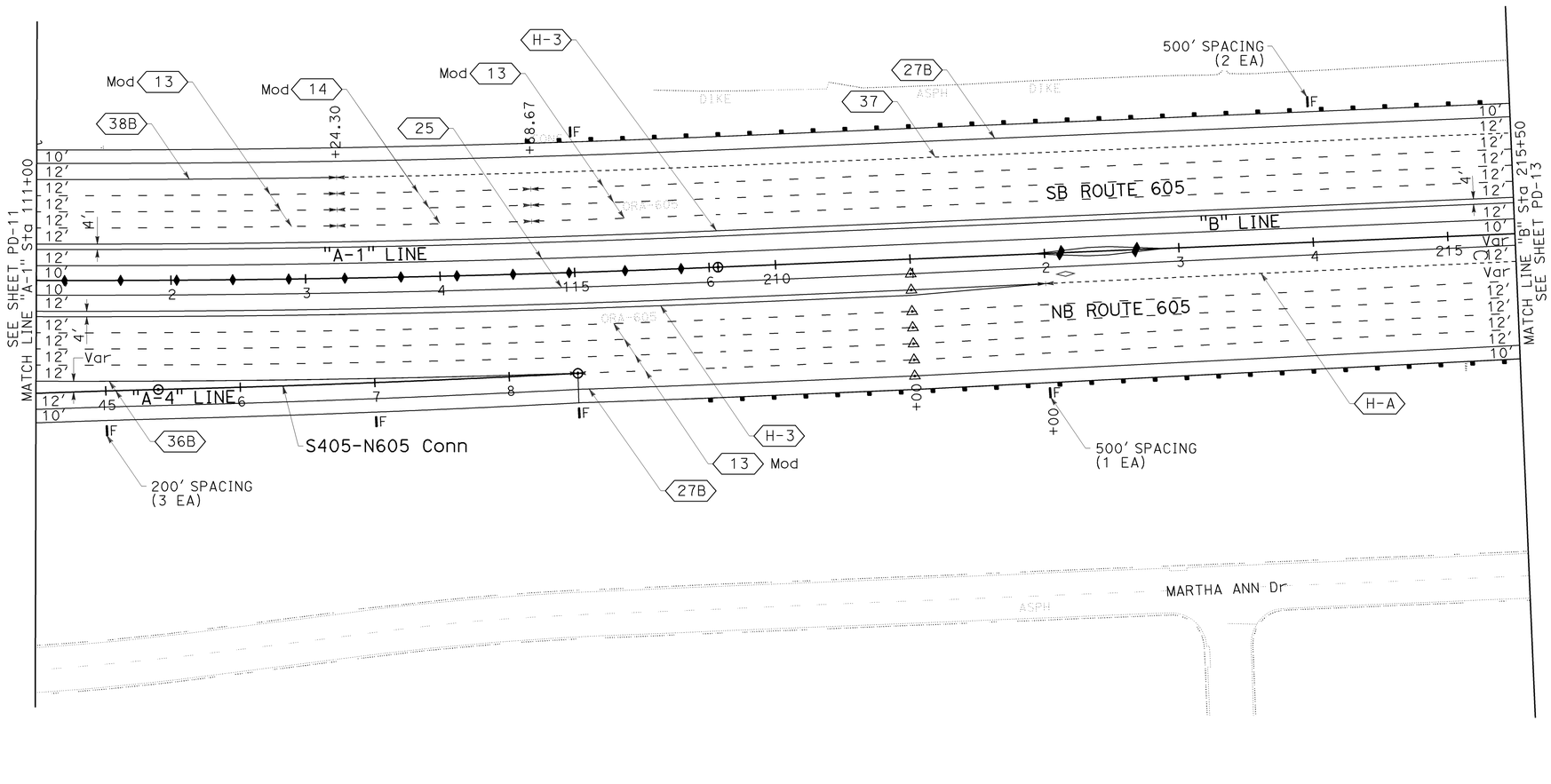
550 S. MAIN STREET
ORANGE, CA 92863-1584



PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-12

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY.

BORDER LAST REVISED 8/1/2008	RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3	USERNAME => trstrk DGN FILE => c07163na012.dgn	CU 12235 / EA 071631

LAST REVISION 08-10-09
DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 07:30

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW
CALCULATED-DESIGNED BY: NIRUPA KANNAN
CHECKED BY: DAVID LEW
REVISED BY: DBL
DATE REVISED: 8/10/09

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	977	1929

David Lew 8/10/09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID LEW
No. C59063
Exp. 6/30/11
CIVIL
STATE OF CALIFORNIA

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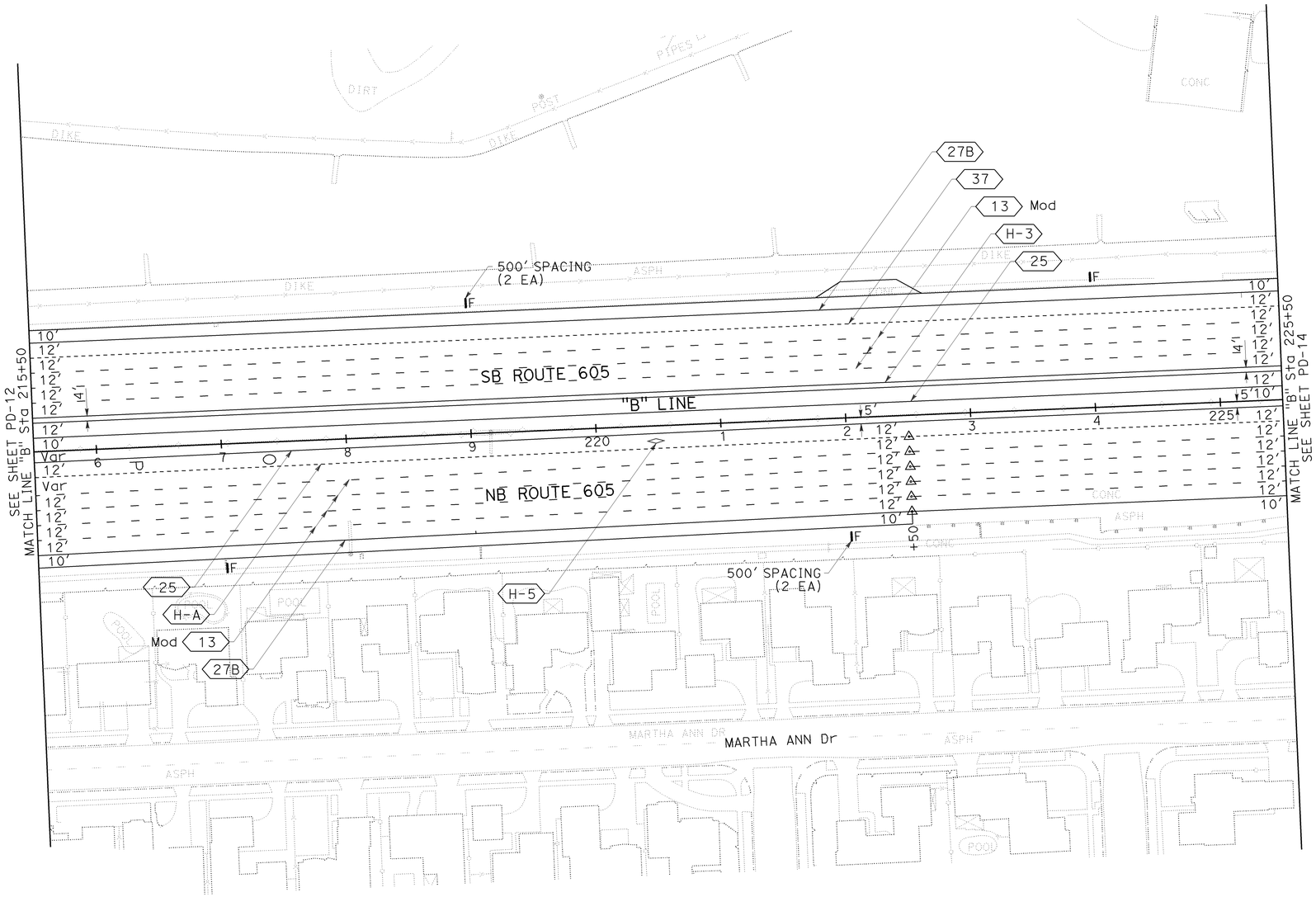
ORANGE, CA 92863-1584



PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-13

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW
CALCULATED-DESIGNED BY: NIRUPA KANNAN
CHECKED BY: DAVID LEW
REVISED BY: DBL
DATE REVISED: 8/10/09

LAST REVISION 08-10-09
DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 07:30

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	978	1929

David Lew 12/22/09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID LEW
No. C59063
Exp. 6/30/11
CIVIL
STATE OF CALIFORNIA

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IRVINE, CA 92618

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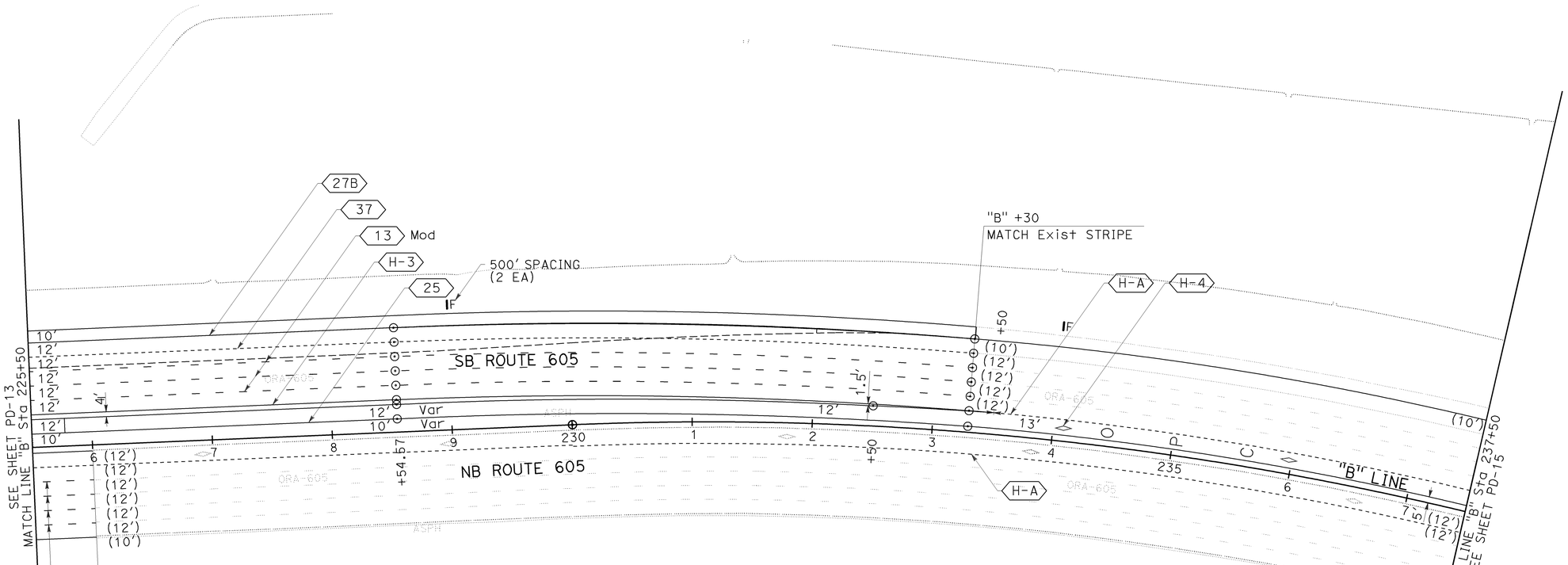
TRANSPORTATION AUTHORITY
550 S. MAIN STREET
ORANGE, CA 92863-1584



PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-14

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY.

CALCULATED-DESIGNED BY	NIRUPA KANNAN	REVISED BY	DBL
CHECKED BY	DAVID LEW	DATE REVISED	12/22/09

CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trstrk
DGN FILE => c07163na014.dgn

CU 12235

EA 071631

LAST REVISION DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 07:30
12-22-09

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	979	1929

David Lew 8/10/09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID LEW
No. C59063
Exp. 6/30/11
CIVIL
STATE OF CALIFORNIA

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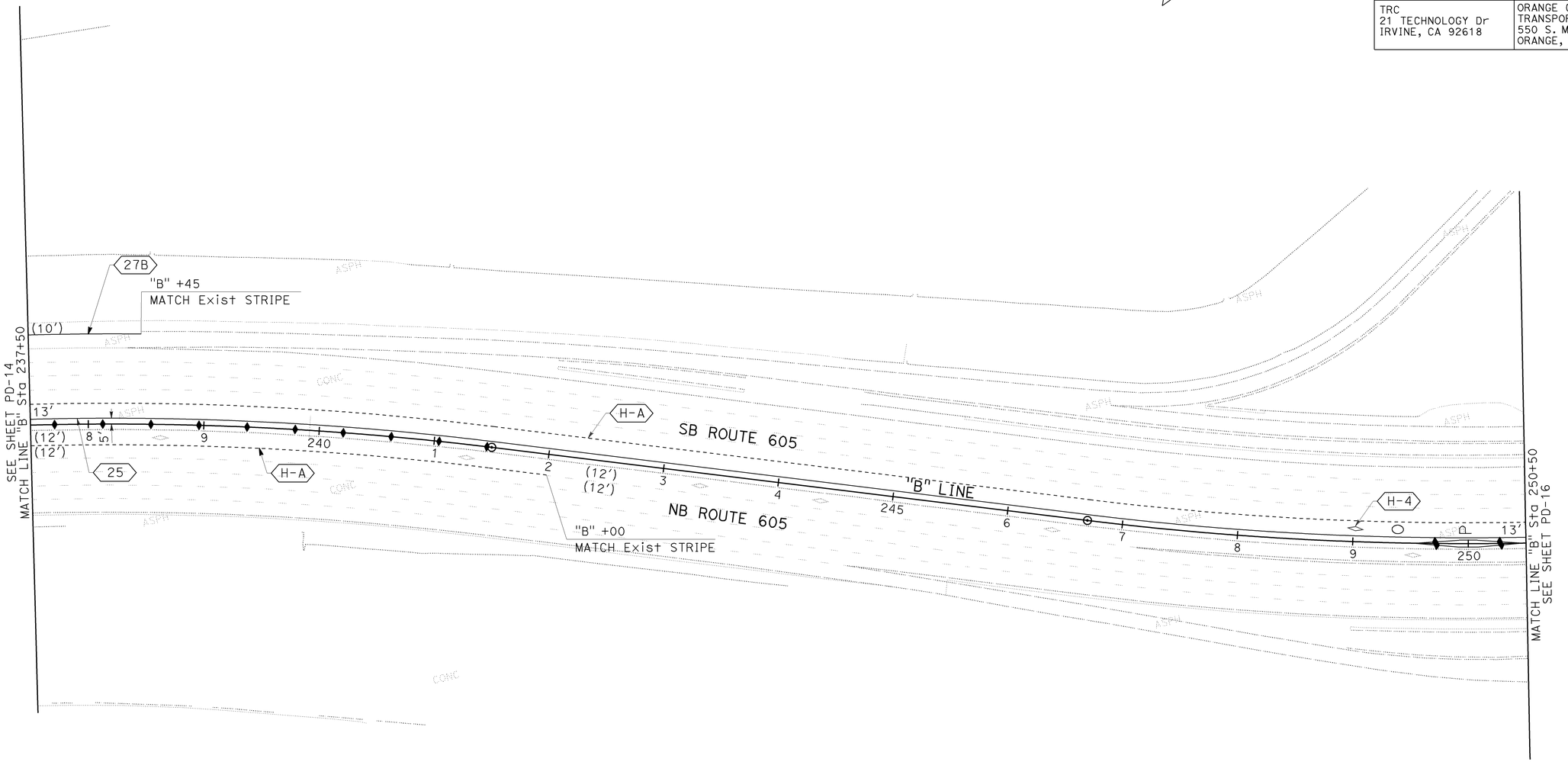
IRVINE, CA 92618

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



PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-15

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY.

CALCULATED-DESIGNED BY	REVISED BY	DBL
CHECKED BY	DATE REVISED	8/10/09
NIRUPA KANNAN		
DAVID LEW		

CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION DATE PLOTTED => 04-FEB-2010
08-10-09 TIME PLOTTED => 07:30

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trstrk
DGN FILE => c07163na015.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	980	1929

David Lew 8/10/09
REGISTERED CIVIL ENGINEER DATE

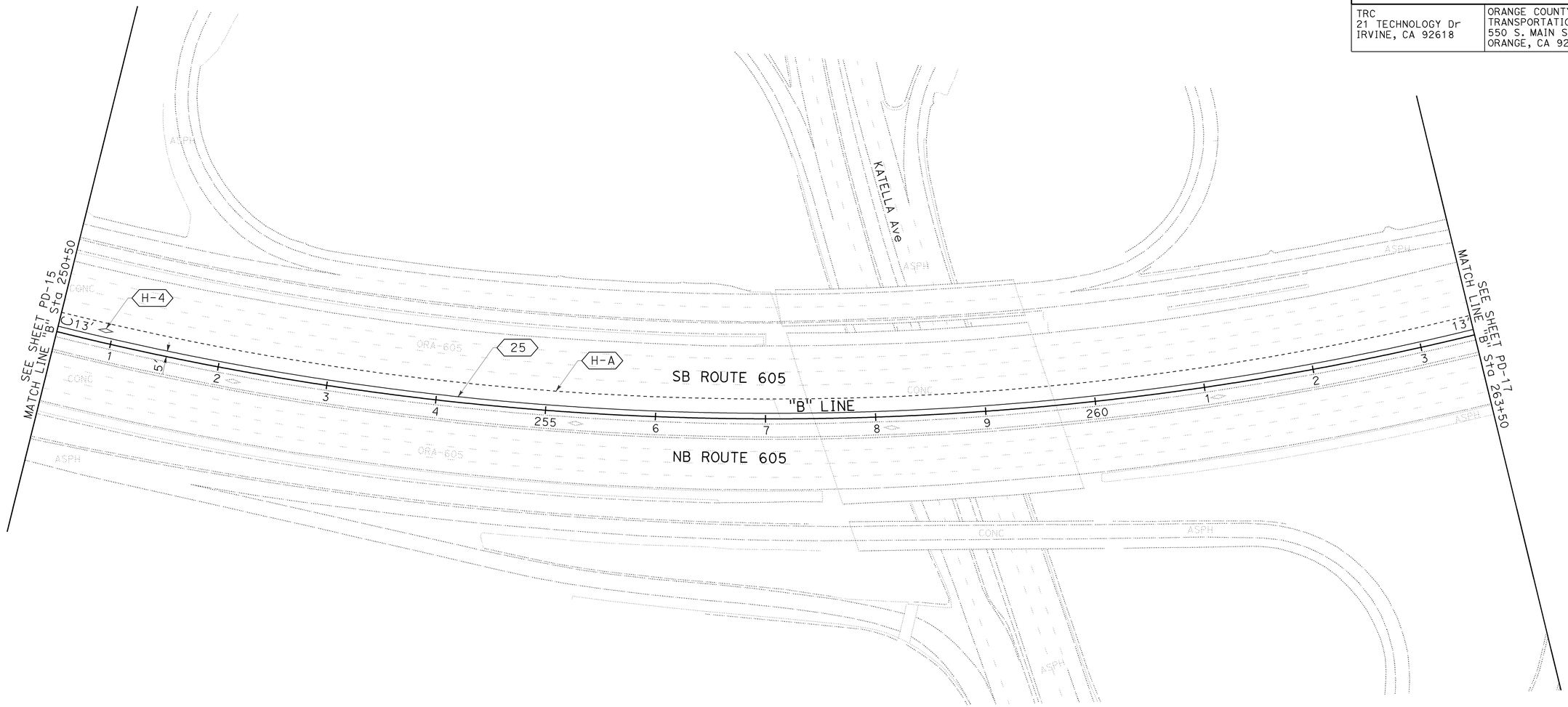
2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID LEW
No. C59063
Exp. 6/30/11
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.

TRC
21 TECHNOLOGY Dr
IRVINE, CA 92618

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



PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-16

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY.

REVISED BY	DBL
DATE REVISED	8/10/09
CALCULATED-DESIGNED BY	NIRUPA KANNAN
CHECKED BY	DAVID LEW
CONSULTANT FUNCTIONAL SUPERVISOR	ROSS LEW

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 08-10-09
DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 07:30

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trstrk
DGN FILE => c07163na016.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	981	1929

David Lew
REGISTERED CIVIL ENGINEER — 8/10/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DAVID LEW No. C59063 Exp. 6/30/11 CIVIL — STATE OF CALIFORNIA

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ORANGE COUNTY
TRANSPORTATION AUTHORITY
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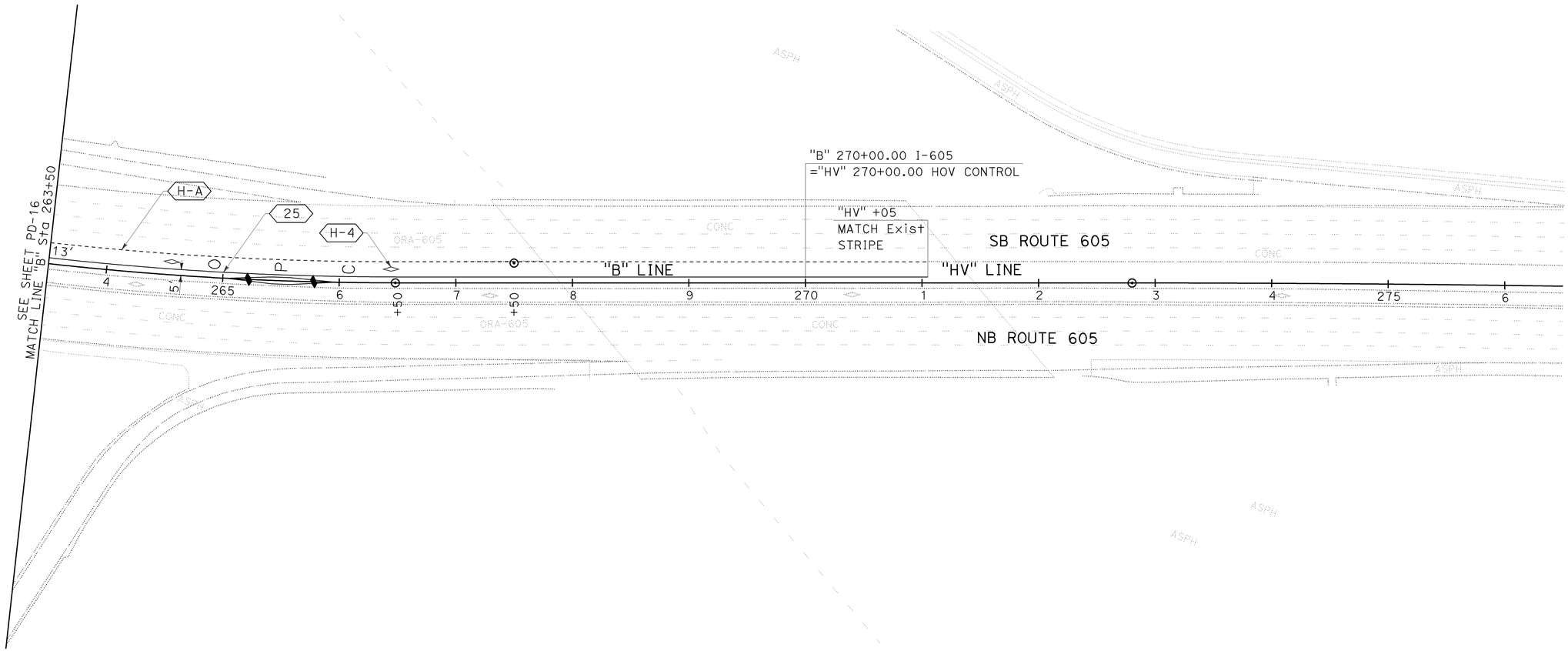
ORANGE, CA 92863-1584



PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-17

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	ROSS LEW
Caltrans	CALCULATED-DESIGNED BY	NIRUPA KANNAN
	CHECKED BY	DAVID LEW
	REVISED BY	DBL
	DATE REVISED	8/10/09

LAST REVISION DATE PLOTTED => 04-FEB-2010
08-10-09 TIME PLOTTED => 08:03

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trstrk DGN FILE => c07163na017.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	982	1929

David Lew 8/10/09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID LEW
No. C59063
Exp. 6/30/11
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STATE OF CALIFORNIA

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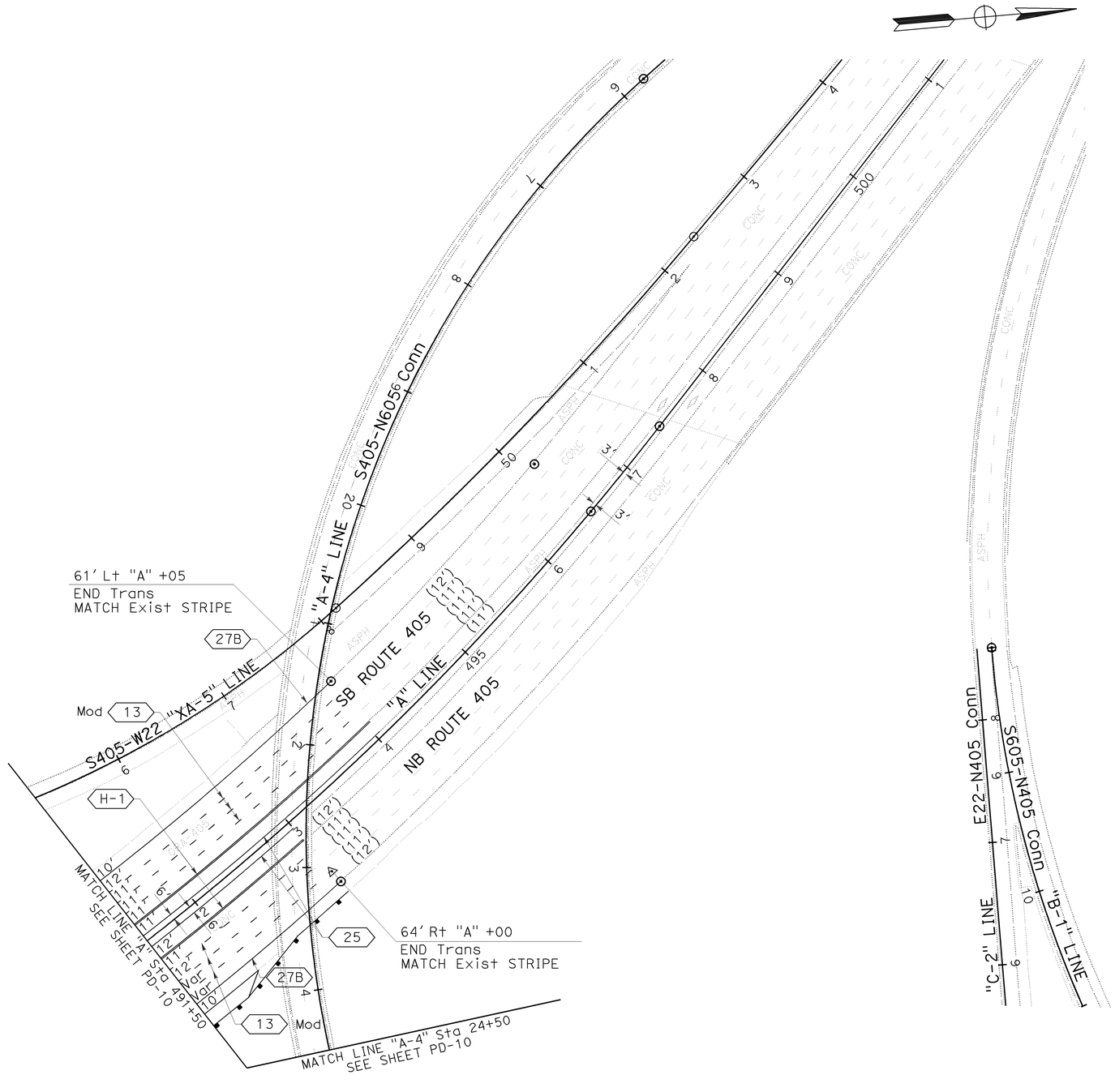

PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-18

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY.

CALCULATED-DESIGNED BY	REVISED BY	DBL
CHECKED BY	DATE REVISED	8/10/09
NIRUPA KANNAN		
DAVID LEW		

CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION 08-10-09 | DATE PLOTTED => 04-FEB-2010 | TIME PLOTTED => 07:31

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trstrk | DGN FILE => c07163na018.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	983	1929

David Lew — REGISTERED CIVIL ENGINEER — 8/10/09 DATE

2-1-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DAVID LEW No. C59063 Exp. 6/30/11 CIVIL — STATE OF CALIFORNIA

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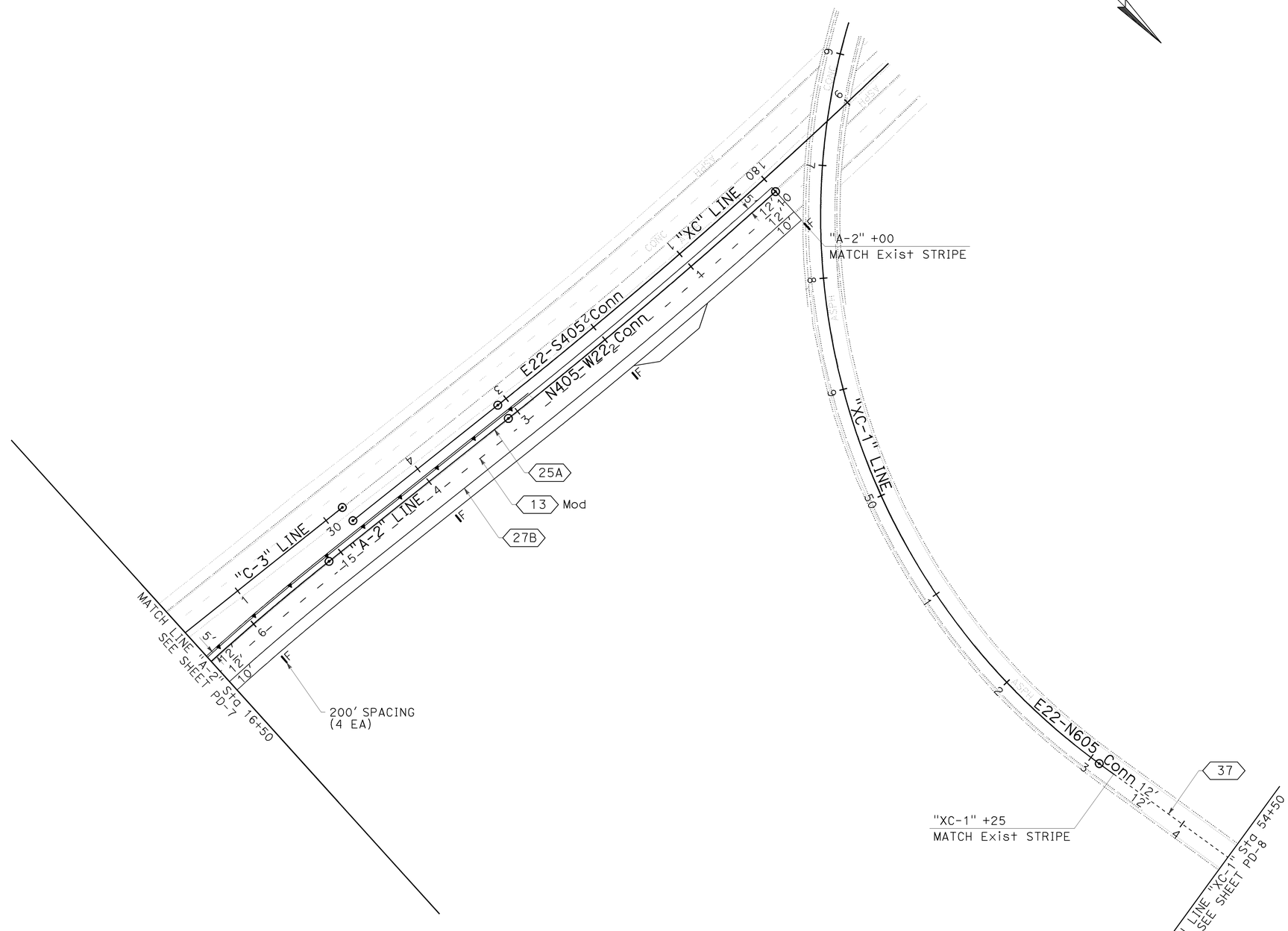

PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-19

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CALCULATED-DESIGNED BY	REVISED BY	DBL	8/10/09
CHECKED BY	DATE REVISED		
NIRUPA KANNAN			
DAVID LEW			
CONSULTANT FUNCTIONAL SUPERVISOR			
ROSS LEW			

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION | DATE PLOTTED => 04-FEB-2010 | 08-10-09 | TIME PLOTTED => 07:31

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trstrk | DGN FILE => c07163na019.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	984	1929

David Lew
REGISTERED CIVIL ENGINEER — 8/10/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DAVID LEW No. C59063 Exp. 6/30/11 CIVIL — STATE OF CALIFORNIA

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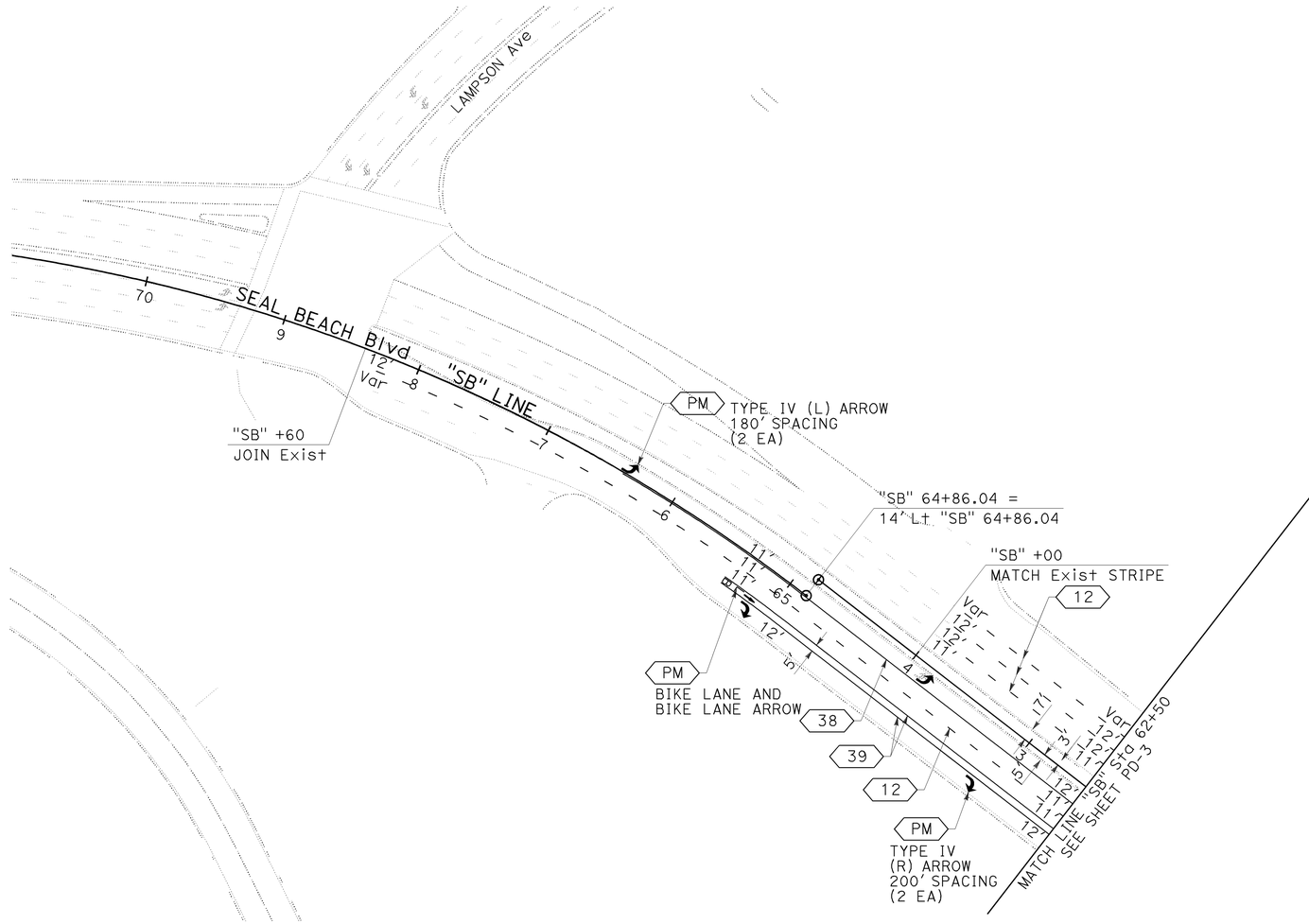

PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-20

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

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Caltrans	DATE REVISED: 8/10/09	CHECKED BY: DAVID LEW	

LAST REVISION DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 07:31
08-10-09

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trstrk
DGN FILE => c07163na020.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	985	1929

REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID LEW
No. C59063
Exp. 6/30/11
CIVIL
STATE OF CALIFORNIA

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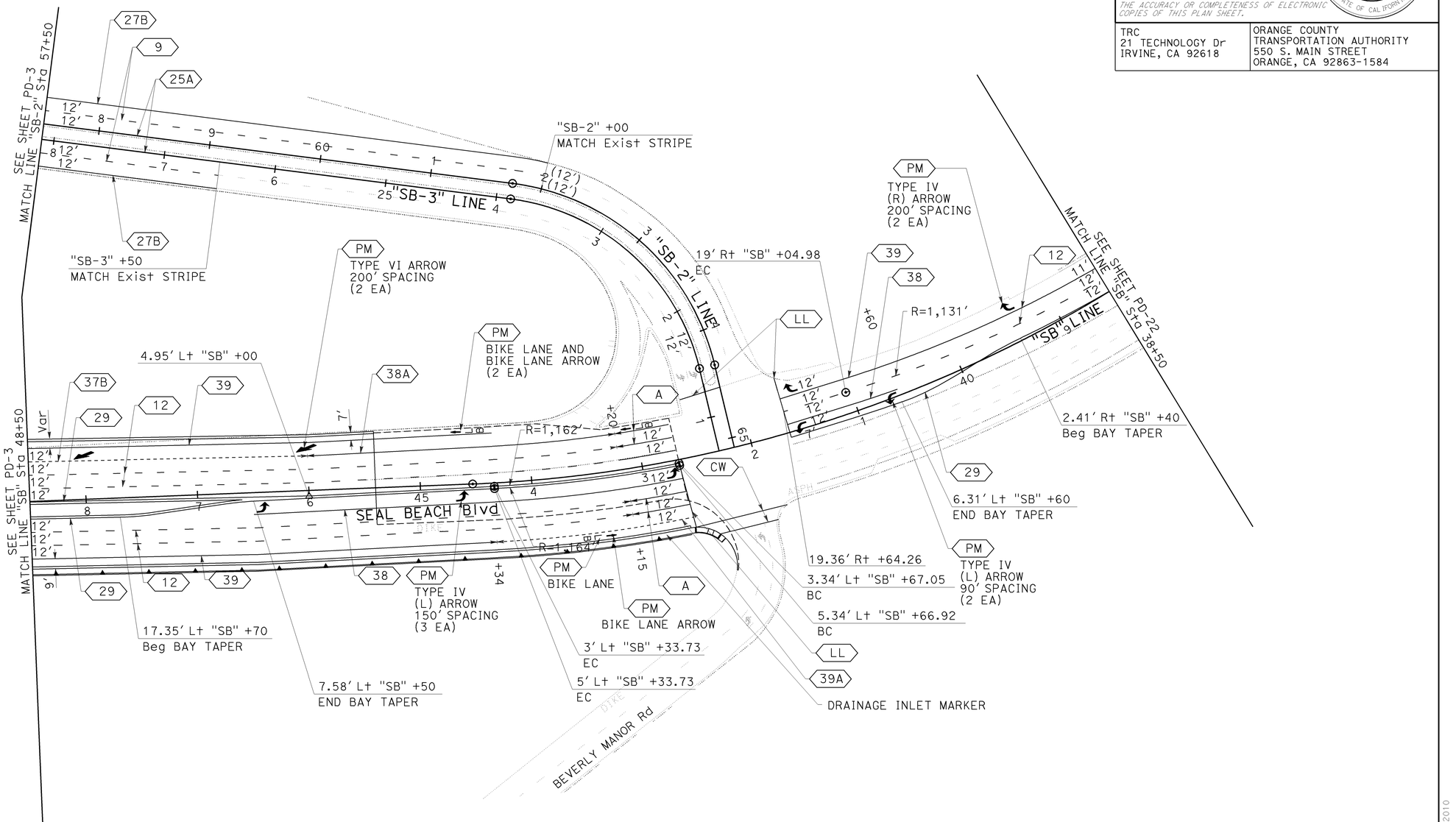

PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-21

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY.

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
NIRUPA KANNAN	DAVID LEW	DBL	12/22/09

CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trstrk | DGN FILE => c07163na021.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	986	1929

David Lew 8/10/09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID LEW
No. C59063
Exp. 6/30/11
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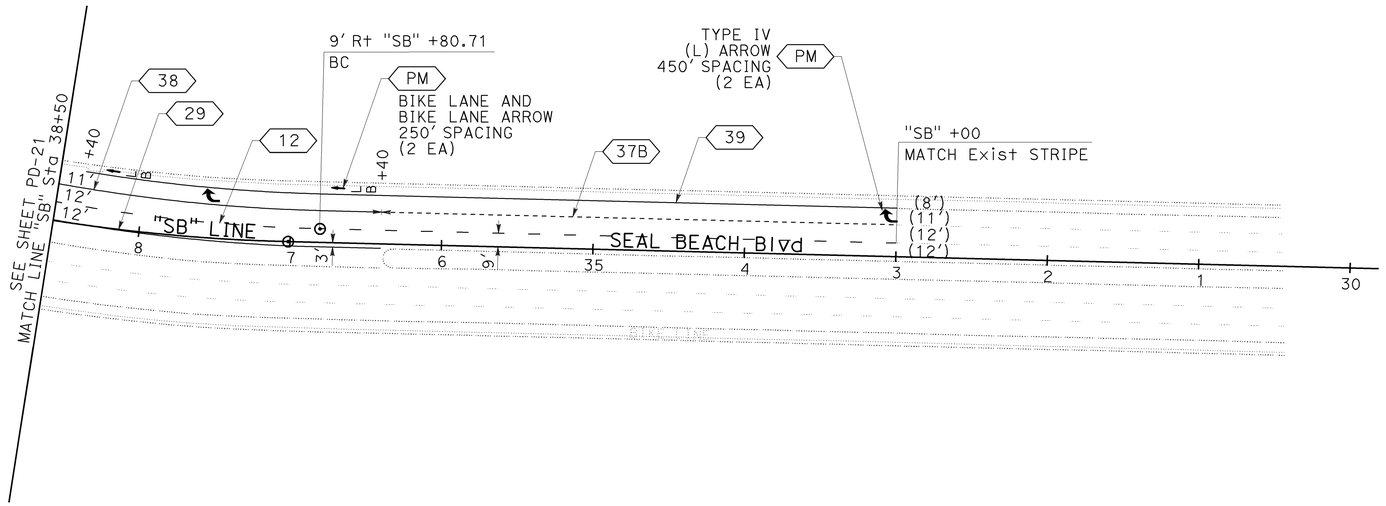

PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-22

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CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW
CALCULATED-DESIGNED BY: NIRUPA KANNAN
CHECKED BY: DAVID LEW
REVISED BY: DBL
DATE REVISED: 8/10/09

LAST REVISION 08-10-09
DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 07:31

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trstrk
DGN FILE => c07163na022.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	987	1929

David Lew 12/22/09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID LEW
No. C59063
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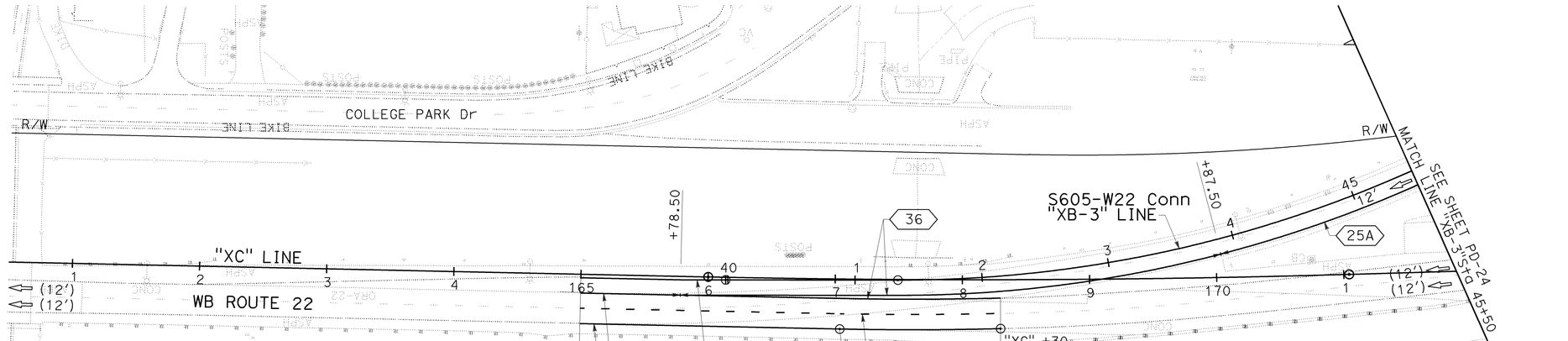

PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-23

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CHECKED BY: DAVID LEW
REVISED BY: DBL
DATE REVISED: 12/22/09
CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW
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LAST REVISION | DATE PLOTTED => 04-FEB-2010 | TIME PLOTTED => 07:31 | 12-22-09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trstrk
DGN FILE => c07163na023.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	988	1929

David Lew 12/22/09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID LEW
No. C59063
Exp. 6/30/11
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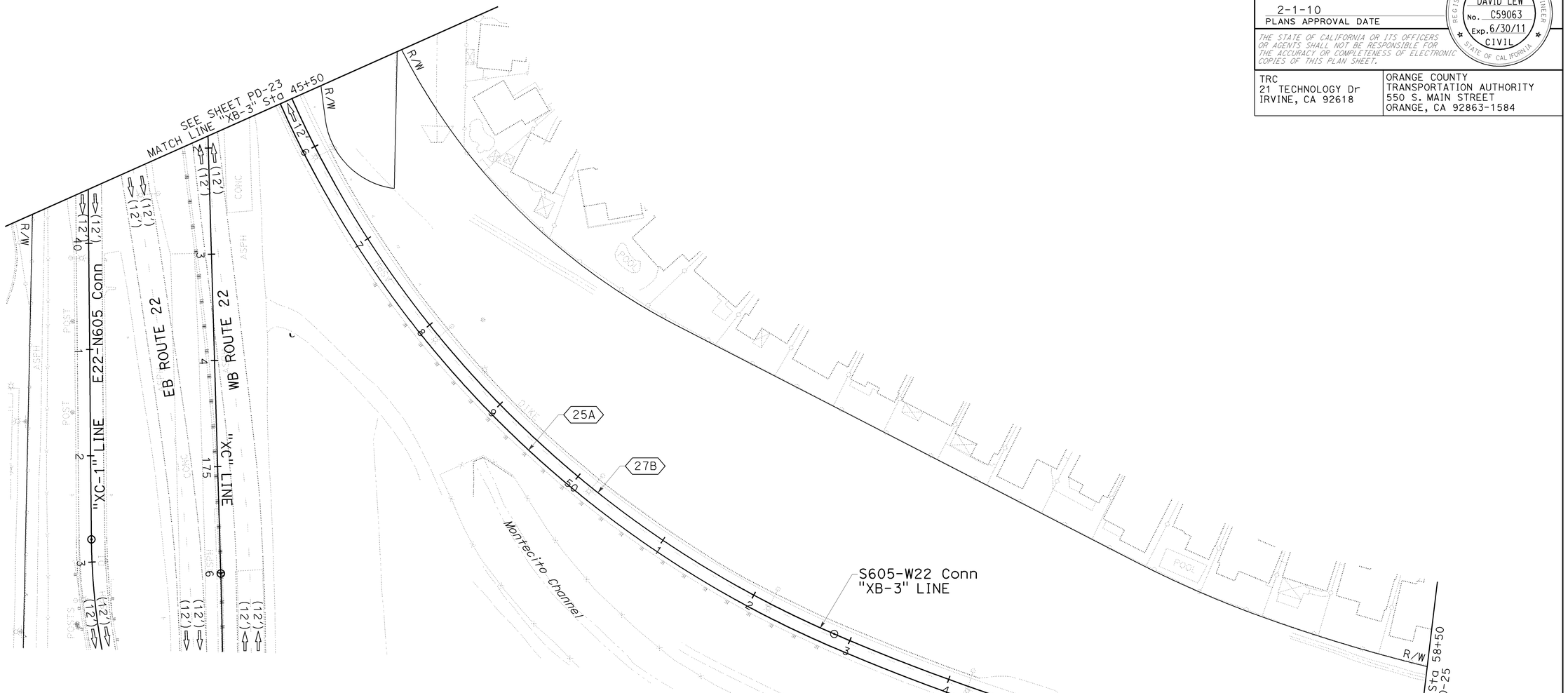

PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-24

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW
CALCULATED-DESIGNED BY: NIRUPA KANNAN
CHECKED BY: DAVID LEW
REVISED BY: DBL
DATE REVISED: 12/22/09

LAST REVISION DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 07:31
12-22-09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trstrk
DGN FILE => c07163na024.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	989	1929

David Lew 12/22/09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID LEW
No. C59063
Exp. 6/30/11
CIVIL
STATE OF CALIFORNIA

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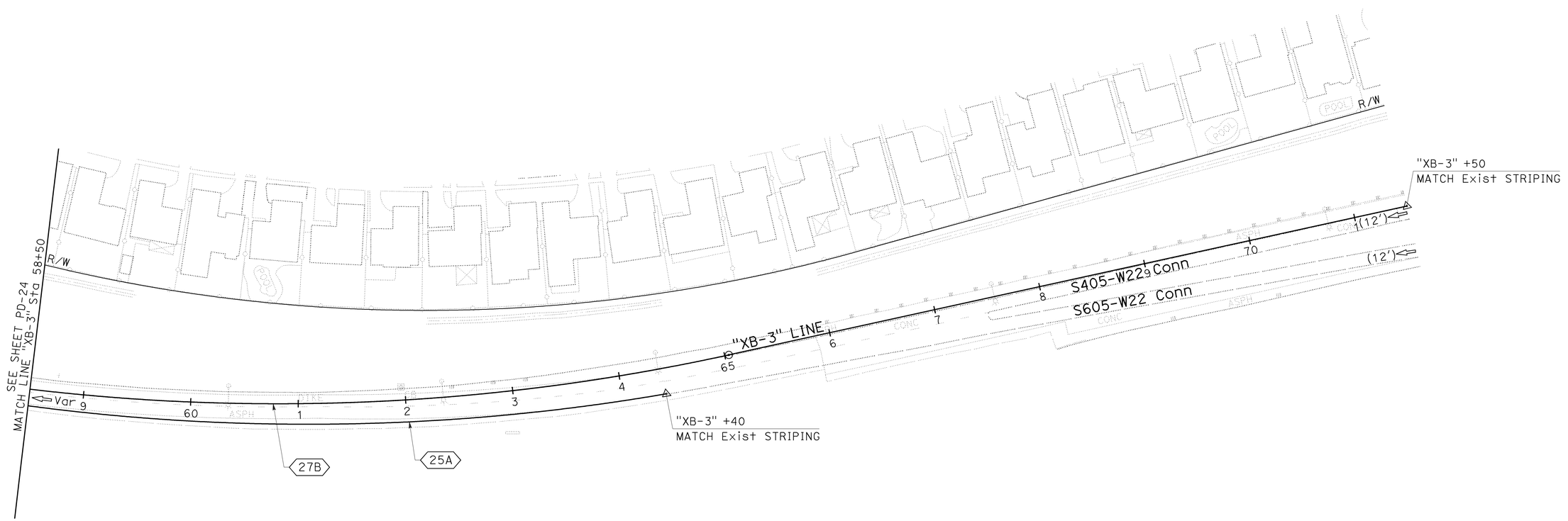

PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-25

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW

CALCULATED-DESIGNED BY: NIRUPA KANNAN
CHECKED BY: DAVID LEW

REVISED BY	DATE REVISED
DBL	12/22/09

LAST REVISION 12-22-09
DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 07:31

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trstrk
DGN FILE => c07163na025.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	990	1929

David Lew 12/22/09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID LEW
No. C59063
Exp.6/30/11
CIVIL
STATE OF CALIFORNIA

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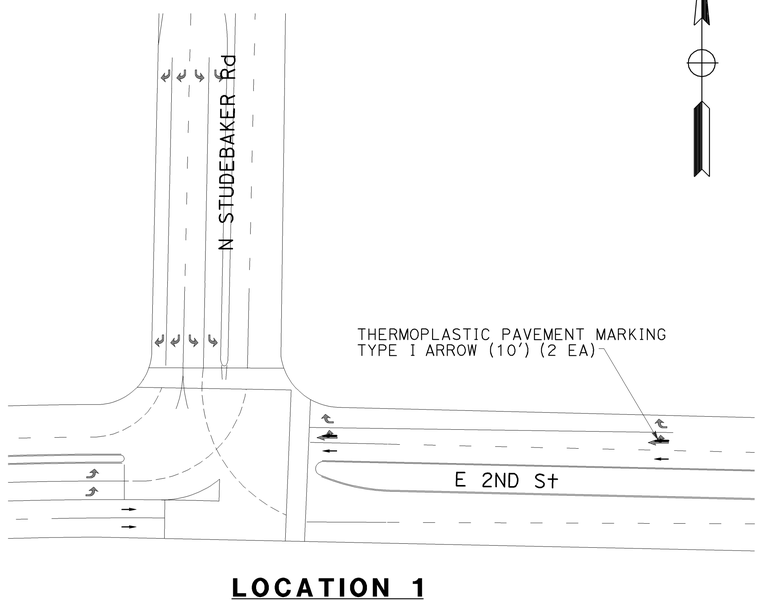

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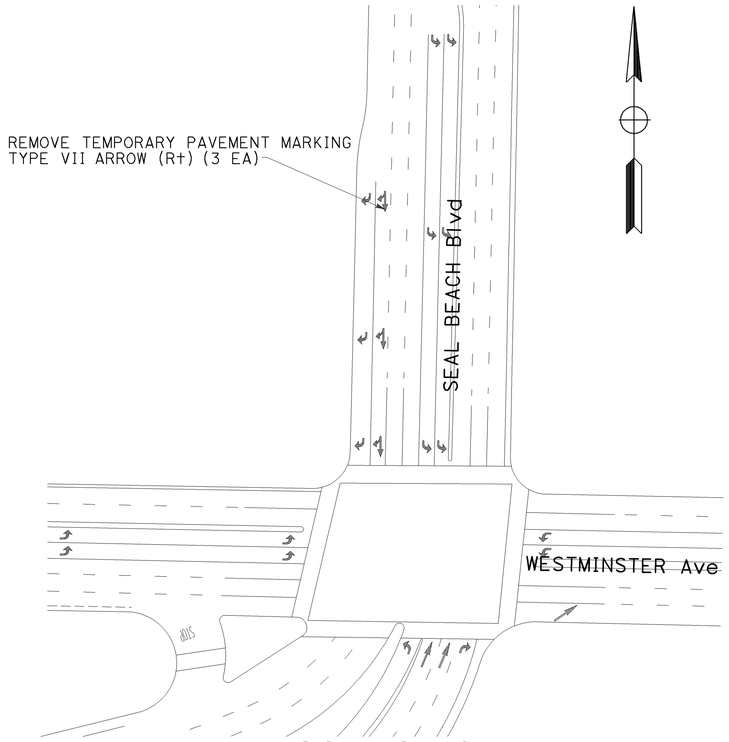
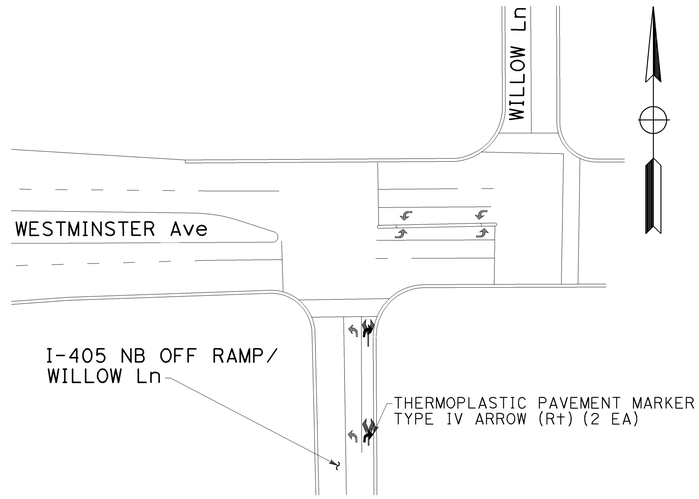


LOCATION 2



LOCATION 3

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY.

PAVEMENT DELINEATION PLAN

NO SCALE

PD-26

	CALCULATED-DESIGNED BY	REVISED BY	DATE REVISED
	CHECKED BY	DBL	12/22/09
	NIRUPA KANNAN		
	DAVID LEW		

CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 07:32
12-22-09

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trstrk
DGN FILE => c07163na026.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	991	1929

David Lew
REGISTERED CIVIL ENGINEER — 8/10/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DAVID LEW No. C59063 Exp. 6/30/11 CIVIL — STATE OF CALIFORNIA

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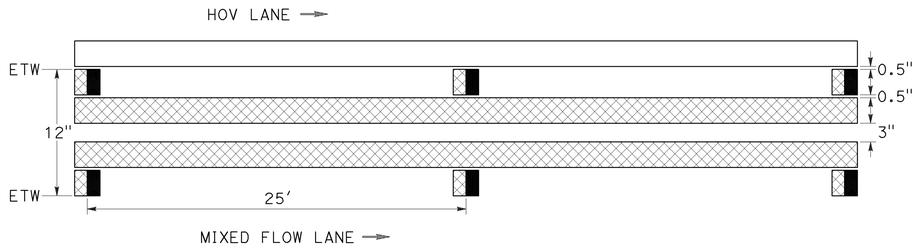
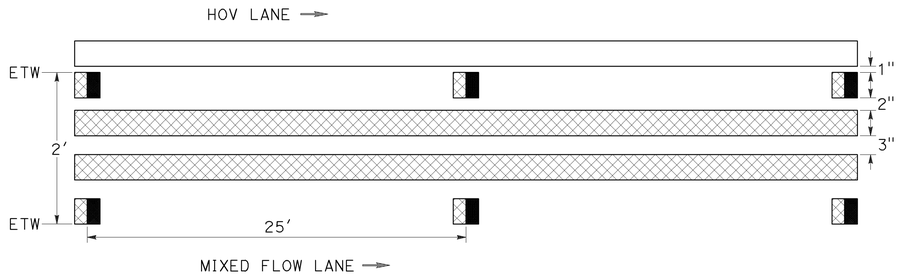


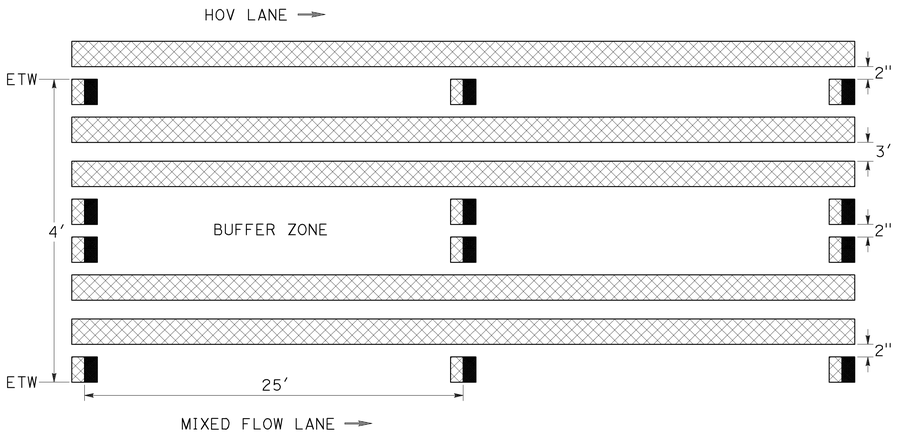
DETAIL H-1

BUFFER STRIPING DETAIL
1' BUFFER WIDTH



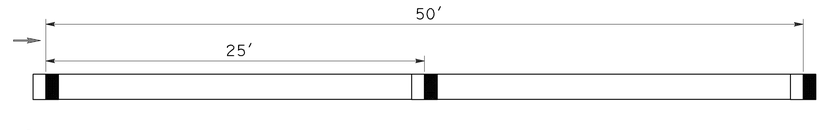
DETAIL H-2

BUFFER STRIPING DETAIL
2' BUFFER WIDTH



DETAIL H-3

BUFFER STRIPING DETAIL
4' BUFFER WIDTH



DETAIL A

LEGEND:

- TYPE A WHITE NON-REFLECTIVE MARKERS
- TYPE G ONE-WAY CLEAR RETROREFLECTIVE MARKERS
- TYPE H ONE-WAY YELLOW RETROREFLECTIVE MARKERS
- TYPE C RED-CLEAR RETROREFLECTIVE MARKERS
- 4" WHITE THERMOPLASTIC TRAFFIC STRIPE
- 4" YELLOW THERMOPLASTIC TRAFFIC STRIPE
- 4" BLACK PAINT TRAFFIC STRIPE (2-COAT)
- 8" WHITE THERMOPLASTIC TRAFFIC STRIPE
- 2-TYPE G ONE-WAY CLEAR RETROREFLECTIVE MARKERS
- DIRECTION OF TRAVEL

PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-1

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY.

LAST REVISION DATE PLOTTED => 04-FEB-2010
08-10-09 TIME PLOTTED => 07:51

CALCULATED-DESIGNED BY: NIRUPA KANNAN
CHECKED BY: DAVID LEW
DRAWN BY: DBL
REVISED BY:
DATE REVISED: 8/10/09
CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW
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 => c07163nb001.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	992	1929

David Lew 8/10/09
REGISTERED CIVIL ENGINEER DATE

2-1-10
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REGISTERED PROFESSIONAL ENGINEER — DAVID LEW No. C59063 Exp. 6/30/11 CIVIL — STATE OF CALIFORNIA

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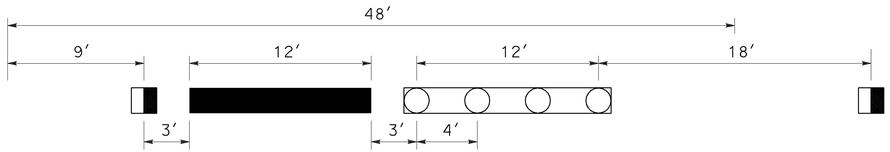
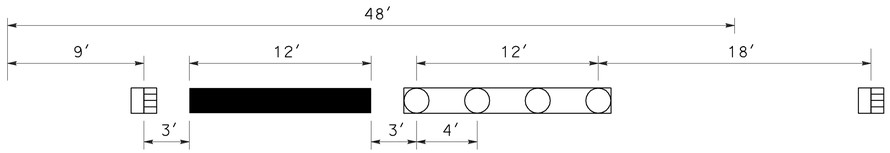
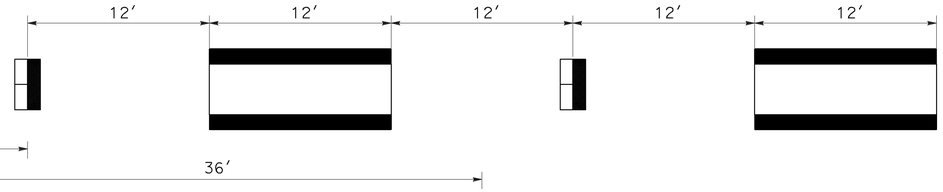


DETAIL 13 Mod

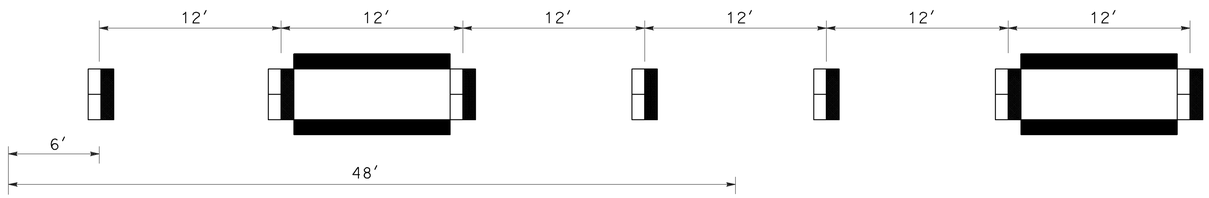


DETAIL 14 Mod



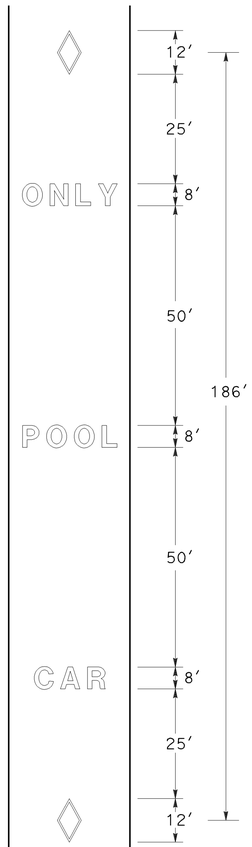
DETAIL H-A

INGRESS/EGRESS
(USE TYPE C RED-CLEAR REFLECTIVE PAVEMENT MARKERS
ADJACENT TO DETAIL 14 Mod IN MIXED FLOW LANES)



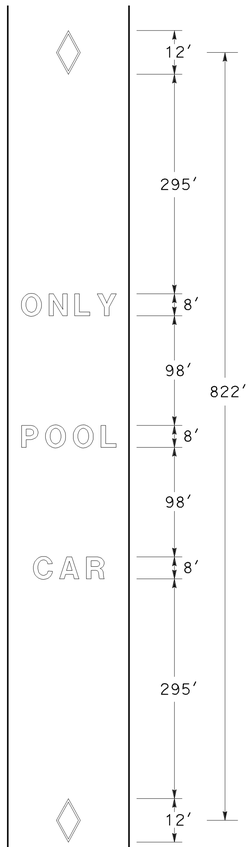
DETAIL H-B

INGRESS/EGRESS
MODIFIED CONTINUOUS ACCESS



DETAIL H-4

HOV LANE PAVEMENT MARKING
AT INGRESS/EGRESS



DETAIL H-5

HOV LANE PAVEMENT MARKING

PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-2

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW
CALCULATED-DESIGNED BY: NIRUPA KANNAN
CHECKED BY: DAVID LEW
REVISED BY: DBL
DATE REVISED: 8/10/09

LAST REVISION DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 07:51
08-10-09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmnguye
DGN FILE => c07163nb002.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	993	1929

David Lew 8/10/09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID LEW
No. C59063
Exp. 6/30/11
CIVIL
STATE OF CALIFORNIA

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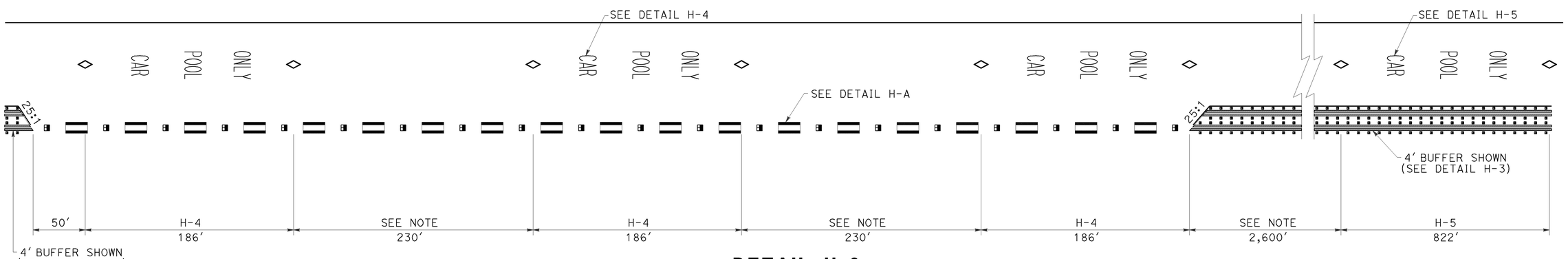
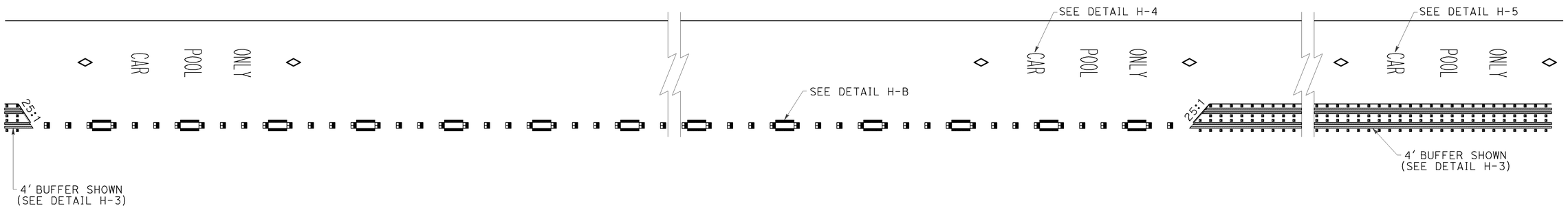


DETAIL H-6

INGRESS/EGRESS FOR HOV FACILITIES WITH BUFFERS

NOTE: REPEAT DETAIL H-4 @ D=230' FOR 3 TIMES, THEREAFTER
REPEAT DETAIL H-5 @ D=2,600'



NOTE: REPEAT DETAIL H-4 @ D=1,300'
REPEAT DETAIL H-5 @ D=2,600'

DETAIL H-7

INGRESS/EGRESS FOR MODIFIED CONTINUOUS ACCESS

PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-3

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY.

REVISED BY	DATE REVISED
DBL	8/10/09

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CHECKED BY: DAVID LEW
CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 07:51
08-10-09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmnguye
DGN FILE => c07163nb003.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	994	1929

David Lew 8/10/09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVID LEW
No. C59063
Exp. 6/30/11
CIVIL
STATE OF CALIFORNIA

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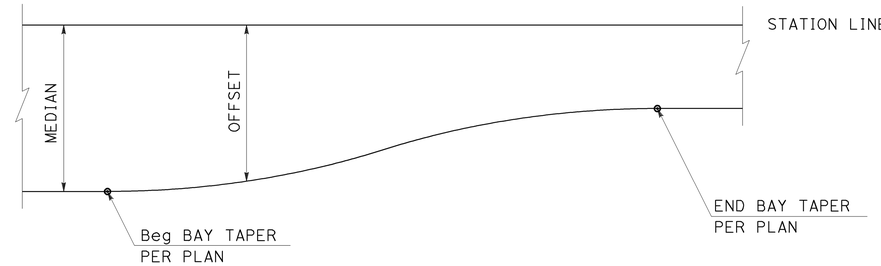
ORANGE, CA 92863-1584

STATION	OFFSET
"SB" 39+40	2.41 R†
"SB" 39+50	2.27 R†
"SB" 39+60	1.87 R†
"SB" 39+70	1.18 R†
"SB" 39+80	0.23 R†
"SB" 40+00	1.95 L†
"SB" 40+20	4.13 L†
"SB" 40+30	5.08 L†
"SB" 40+40	5.77 L†
"SB" 40+50	6.17 L†
"SB" 40+60	6.31 L†
"SB" 46+50	7.58 L†
"SB" 46+60	7.73 L†
"SB" 46+70	8.19 L†
"SB" 46+80	8.95 L†
"SB" 46+90	10.02 L†
"SB" 47+10	12.47 L†
"SB" 47+30	14.91 L†
"SB" 47+40	15.98 L†
"SB" 47+50	16.74 L†
"SB" 47+60	17.20 L†
"SB" 47+70	17.35 L†
"SB" 57+30	7.11 R†
"SB" 57+40	6.81 R†
"SB" 57+50	5.92 R†
"SB" 57+60	4.42 R†
"SB" 57+70	2.33 R†
"SB" 57+90	2.45 L†
"SB" 58+10	7.22 L†
"SB" 58+20	9.31 L†
"SB" 58+30	10.81 L†
"SB" 58+40	11.70 L†
"SB" 58+50	12.00 L†



BAY TAPER

PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-4

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY.

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
NIRUPA KANNAN	DAVID LEW	DBL	8/10/09

CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 08-10-09 | DATE PLOTTED => 04-FEB-2010 | TIME PLOTTED => 07:51

BORDER LAST REVISED 8/1/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmnguye | DGN FILE => c07163nb004.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	995	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

REGISTERED PROFESSIONAL ENGINEER — JASON YAW No. C73422 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

2-1-10
PLANS APPROVAL DATE

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

NOTE:

1. FOR REMOVE THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE), SEE SHEET Q-2.

PAVEMENT DELINEATION

SHEET No.	STATION LIMITS		DIRECTION	THERMOPLASTIC TRAFFIC STRIPE										DELINEATOR (CLASS 1)		THERMOPLASTIC PAVEMENT MARKING			PAVEMENT MARKER					REMOVE THERMOPLASTIC			REMOVE
				4"					6"	8"										RETROREFLECTIVE				TRAFFIC STRIPE			
				PAINT TRAFFIC STRIPE 4" (2-COAT BLACK) DETAIL 13 Mod, 14 Mod, H-A, H-B	WHITE (BROKEN 17-7) DETAIL 9	WHITE (BROKEN 36-12) DETAIL 12, 13 Mod, 14 Mod	WHITE (BROKEN 6-1) DETAIL 40	SOLID WHITE DETAIL A, 27B, H-1, H-2	SOLID YELLOW DETAIL 22, 25, 25A, 29, H-1, H-2, H-3	SOLID WHITE DETAIL 39, 39A	WHITE (BROKEN 12-3) DETAIL 37, 37B	WHITE (BROKEN 36-12) DETAIL H-B	SOLID WHITE DETAIL 36, 36A, 36B, 38, 38A, 38B, H-A	TYPE F	TYPE G	SOLID WHITE DETAIL CW, LL, DY	ARROWS/SYMBOLS/WORDS (WHITE)	DRAINAGE INLET MARKER	TYPE A NON-REFLECTIVE	TYPE C	TYPE D	TYPE G	TYPE H	WHITE	YELLOW	PAVEMENT MARKING	PAVEMENT MARKER
				LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	SQFT	SQFT	EA	EA	EA	EA	EA	EA	LF	LF	SQFT	EA
PD-1	"A" 395+50	TO "A" 398+50	NB	624		1,800		300	300			300		1					150	9		93	15	1,800	900	11	191
	"A" 395+50	TO "A" 398+50	SB	624		1,800		300	300			300		1					150			99	15	2,100	300	11	173
PD-2	"A" 398+50	TO "A" 408+50	NB	1,812		5,296		730	1,325		704	935	270	1			168		441	26		290	41	6,010	3,000	11	625
	"A" 398+50	TO "A" 408+50	SB	2,004		6,000		585	1,000			1,000	415	8					500			322	29	7,000	1,000	11	565
	"SB-1" 40+50	TO "SB-1" 48+50	NB		190			800	530				270	9	4							27	31	1,290	770		43
	"SB-2" 44+30	TO "SB-2" 48+50	SB					415					415									29		640			
PD-3	"A" 408+50	TO "A" 417+50	NB	1,128		4,500		385	5,400		900		520	1			168		375	32		127	171	5,410	2,700	11	563
	"A" 408+50	TO "A" 417+50	SB	1,548		5,400		1,332	2,000			350	120						450			189	71	6,310	900	11	509
	"SB" 48+50	TO "SB" 62+50	NB			2,380	120	315	4,280	703	408		835			66	276				100	134		2,800		60	50
	"SB" 48+50	TO "SB" 62+50	SB			2,280	140	220	4,260	1,240			270			430	142				98	80		2,030		60	47
	"SB" 59+80		SB															1									
	"SB" 59+95		NB															1									
	"SB-1" 48+50	TO "SB-1" 52+63	NB		550			330	330				390	1		61	342					35	22	500		126	8
	"SB-2" 48+50	TO "SB-2" 57+50	SB		275			720	615				120	11	4	24						22	34	1,245	620		39
	"SB-3" 28+20	TO "SB-3" 37+50	SB		740			700	770					12	11							27	41	1,700	860		59
	"SB-4" 34+35	TO "SB-4" 45+20	NB		285			920	510				600	11	7	30						44	30	1,200	400		22
	"SB-5" 5+15	TO SB-5 9+94	NB					450	175				310	15								24	16	680			
PD-4	"A" 417+50	TO "A" 425+50	NB	1,008		4,000		800	4,800		800			3					333	29		95	153	4,800	2,400	22	501
	"A" 417+50	TO "A" 425+50	SB	1,200		4,800		1,200	2,400		98		560	3					400	17		138	89	5,850	800	11	495
	"SB-3" 37+50	TO "SB-3" 40+10	SB		260			405					405									42		1,350			10
SUBTOTAL				9,948	2,300	38,256	260	10,907	28,995	1,943	2,910	2,885	5,500	77	26	611	1,096	2	2,799	113	198	1,817	758	52,715	14,650	345	3,900
SHEET TOTAL				9,948	2,300	38,256	260	39,902		1,943	2,910	2,885	5,500	103		1,707		2	2,799	2,886				67,365		345	3,900

PAVEMENT DELINEATION QUANTITIES

PDQ-1

LAST REVISION DATE PLOTTED => 04-FEB-2010
12-22-09 TIME PLOTTED => 07:51

CALCULATED-DESIGNED BY: JASON YAW
CHECKED BY: DAVID LEW
REVISED BY: DBL
DATE REVISED: 12/22/09
CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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	996	1929

REGISTERED CIVIL ENGINEER — DATE 12/22/09

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JASON YAW
No. C73422
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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

PAVEMENT DELINEATION

SHEET No.	STATION LIMITS				DIRECTION	PAINT TRAFFIC STRIPE 4" (2-COAT BLACK) DETAIL 13 Mod, 14 Mod, H-A, H-B	THERMOPLASTIC TRAFFIC STRIPE 4" WHITE (BROKEN 17-7) DETAIL 9	THERMOPLASTIC TRAFFIC STRIPE 4" WHITE (BROKEN 36-12) DETAIL 12, 13 Mod, 14 Mod	THERMOPLASTIC TRAFFIC STRIPE 4" WHITE (BROKEN 6-1) DETAIL 40	THERMOPLASTIC TRAFFIC STRIPE 4" SOLID WHITE DETAIL A, 27B, H-1, H-2	THERMOPLASTIC TRAFFIC STRIPE 4" SOLID YELLOW DETAIL 22, 25, 25A, 29, H-1, H-2, H-3	THERMOPLASTIC TRAFFIC STRIPE 6" SOLID WHITE DETAIL 39, 39A	THERMOPLASTIC TRAFFIC STRIPE 8" WHITE (BROKEN 12-3) DETAIL 37, 37B	THERMOPLASTIC TRAFFIC STRIPE 8" WHITE (BROKEN 36-12) DETAIL H-B	THERMOPLASTIC TRAFFIC STRIPE 8" SOLID WHITE DETAIL 36, 36A, 36B, 38, 38A, 38B, H-A	DELINEATOR (CLASS 1) TYPE F	DELINEATOR (CLASS 1) TYPE G	THERMOPLASTIC PAVEMENT MARKING SOLID WHITE DETAIL CW, LL, DY	THERMOPLASTIC PAVEMENT MARKING ARROWS/SYMBOLS/WORDS (WHITE)	THERMOPLASTIC PAVEMENT MARKING DRAINAGE INLET MARKER	PAVEMENT MARKER TYPE A NON-REFLECTIVE	PAVEMENT MARKER RETROREFLECTIVE TYPE C	PAVEMENT MARKER RETROREFLECTIVE TYPE D	PAVEMENT MARKER RETROREFLECTIVE TYPE G	PAVEMENT MARKER RETROREFLECTIVE TYPE H	REMOVE THERMOPLASTIC TRAFFIC STRIPE WHITE	REMOVE THERMOPLASTIC TRAFFIC STRIPE YELLOW	REMOVE PAVEMENT MARKING	REMOVE PAVEMENT MARKER
						LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	SQFT	SQFT	EA	EA	EA	EA	EA	EA	LF	LF	SQFT	EA
PD-5	"A"	425+50	TO "A"	438+50	NB	1,632		6,504		1,040	7,800		235		725	1			168		542	24		185	244	6,800	3,900	22	759
	"A"	425+50	TO "A"	438+50	SB	1,956		7,805		1,650	6,750		1,300			3			168		650	51		169	216	10,400	1,300	11	870
	"A-2"	34+90	TO "A-2"	41+00	NB	156		605		175	345				700						50			54	23	848			53
	"OR"	4+90	TO "OR"	18+00	NB					1,305	875				435									30	45	1,390	1,225		52
PD-6	"A"	438+50	TO "A"	451+50	NB	1,056		4,200		1,250	7,665		1,040		1,500	3					350	48		152	239	6,420	3,900	22	670
	"A"	438+50	TO "A"	451+50	SB	1,464		5,815		800	7,965		70		1,975	1		222			485	5		216	252	8,775	1,300	44	801
	"A-2"	21+50	TO "A-2"	34+90	WB	348		1,345		1,255	1,345				95						112			44	65	1,979	1,350		379
	"C-3"	36+50	TO "C-3"	49+20	EB	324		1,270		1,240	710				565	7	3				106			62	38	2,100	750		117
	"OR"	4+00	TO "OR"	4+90	NB					100					95									15					
PD-7	"A"	451+50	TO "A"	458+50	NB	504		2,015		1,355	4,800		665			1					168	25		53	149	3,500	2,100	11	367
	"A"	451+50	TO "A"	458+50	SB	732		2,925		1,450	5,020					1					244	15		60	154	4,650	705	11	422
	"A-2"	16+50	TO "A-2"	21+50	WB	132		500		500	500					2					42			22	29	509	500		64
	"C-3"	31+60	TO "C-3"	36+50	EB	120		460		460	460					2	2				38			21	28	980	490		63
PD-8	"A"	458+50	TO "A"	471+50	NB	948		3,790		1,250	7,655		860		390	3					316	40		116	239	6,500	3,900	22	677
	"A"	458+50	TO "A"	471+50	SB	1,200		4,120		680	6,730				648	1			33		343			135	212	7,490	1,300	22	562
	"A-1"	58+50	TO "A-1"	71+50	NB					1,300	1,300								73						36				
	"A-1"	58+50	TO "A-1"	71+50	SB					1,300	1,300								73						36				
	"B-2"	49+50	TO "B-2"	61+60	EB	276		1,100		1,190	515				570	6	2				92			58	30	1,705			95
	"XC-1"	54+50	TO "XC-1"	64+90	NB					250	240		1,035			2						37			13	1,285	240		46
SUBTOTAL						10,848		42,454		18,550	61,975		5,205		7,698	33	7	222	515		3,538	245		1,392	2,048	65,331	22,960	165	5,997
SHEET TOTAL						10,848		42,454		80,525			5,205		7,698	40		737			3,538	3,685				88,291		165	5,997

PAVEMENT DELINEATION QUANTITIES

PDQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW
CALCULATED-DESIGNED BY: JASON YAW
CHECKED BY: DAVID LEW
REVISED BY: DBL
DATE REVISED: 12/22/09

LAST REVISION DATE PLOTTED => 04-FEB-2010
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BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmnguye
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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	997	1929

REGISTERED CIVIL ENGINEER — 12/22/09 DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JASON YAW No. C73422 Exp. CIVIL — STATE OF CALIFORNIA

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IRVINE, CA 92618

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

PAVEMENT DELINEATION

SHEET No.	STATION LIMITS	DIRECTION	PAINT TRAFFIC STRIPE 4" (2-COAT BLACK) DETAIL 13 Mod, 14 Mod, H-A, H-B	THERMOPLASTIC TRAFFIC STRIPE 4" WHITE (BROKEN 17-7) DETAIL 9	THERMOPLASTIC TRAFFIC STRIPE 4" WHITE (BROKEN 36-12) DETAIL 12, 13 Mod, 14 Mod	THERMOPLASTIC TRAFFIC STRIPE 4" WHITE (BROKEN 6-1) DETAIL 40	THERMOPLASTIC TRAFFIC STRIPE 4" SOLID WHITE DETAIL A, 27B, H-1, H-2	THERMOPLASTIC TRAFFIC STRIPE 4" SOLID YELLOW DETAIL 22, 25, 25A, 29, H-1, H-2, H-3	THERMOPLASTIC TRAFFIC STRIPE 6" SOLID WHITE DETAIL 39, 39A	THERMOPLASTIC TRAFFIC STRIPE 8" WHITE (BROKEN 12-3) DETAIL 37, 37B	THERMOPLASTIC TRAFFIC STRIPE 8" WHITE (BROKEN 36-12) DETAIL H-B	THERMOPLASTIC TRAFFIC STRIPE 8" SOLID WHITE DETAIL 36, 36A, 36B, 38, 38A, 38B, H-A	DELINEATOR (CLASS 1) TYPE F	DELINEATOR (CLASS 1) TYPE G	THERMOPLASTIC PAVEMENT MARKING SOLID WHITE DETAIL CW, LL, DY	THERMOPLASTIC PAVEMENT MARKING ARROWS/SYMBOLS/WORDS (WHITE)	THERMOPLASTIC PAVEMENT MARKING DRAINAGE INLET MARKER	PAVEMENT MARKER TYPE A NON-REFLECTIVE	PAVEMENT MARKER RETROREFLECTIVE TYPE C	PAVEMENT MARKER RETROREFLECTIVE TYPE D	PAVEMENT MARKER RETROREFLECTIVE TYPE G	PAVEMENT MARKER RETROREFLECTIVE TYPE H	REMOVE THERMOPLASTIC TRAFFIC STRIPE WHITE	REMOVE THERMOPLASTIC TRAFFIC STRIPE YELLOW	REMOVE THERMOPLASTIC PAVEMENT MARKING	REMOVE PAVEMENT MARKER
			LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	SQFT	SQFT	EA	EA	EA	EA	EA	EA	LF	LF	SQFT	EA
PD-9	"A" 471+50 TO "A" 483+50	NB	900		3,600		1,155	6,150				550	1					300			117	197	5,230	3,600	22	545
	"A" 471+50 TO "A" 483+50	SB	1,620		3,600		1,350	1,500				350	2			219		300	12		137	45	4,500	1,500	22	397
	"A-1" 71+50 TO "A-1" 84+25	NB					1,275	1,275								11						35				
	"A-1" 71+50 TO "A-1" 84+25	SB					1,275	1,275								11						35				
	"A-3" 43+00 TO "A-3" 54+50	NB	288		1,150		1,150	750				400	6					96			52	40	1,800			95
	"XC-1" 64+90 TO "XC-1" 66+00	NB					150						1													
	"C-1" 6+00 TO "C-1" 17+70	NB	300		1,170		950	1,295		660		625	6					98	36		65	35	2,050			233
	"C-2" 4+40 TO "C-2" 7+65	NB					330					325									25		350	350		9
PD-10	"A" 483+50 TO "A" 491+50	NB	612		2,440		1,640	2,420										203			62	91	3,320	2,400	11	345
	"A" 483+50 TO "A" 491+50	SB	600		2,370		1,575	2,380										198			61	89	4,000	2,400	11	418
	"A-1" 84+25 TO "A-1" 97+50	NB (HOV)					1,320	1,325														36				
	"A-1" 84+25 TO "A-1" 97+50	SB (HOV)					1,330	1,325														36				
	"A-3" 54+50 TO "A-3" 64+90	NB	264		1,040		1,040	1,045										87			33	52	2,100			111
	"C-1" 17+70 TO "C-1" 30+85	NB	336		1,310		1,225	1,310				75	4					109			43	36	2,600			129
	"C-2" 7+65 TO "C-2" 20+75	NB					1,318	1,239				75	11	10							15	60	1,333	1,319		20
SUBTOTAL			4,920		16,680		17,083	23,289		660		2,400	31	10		241		1,391	48		610	787	27,283	11,569	66	2,302
SHEET TOTAL			4,920		16,680		40,372			660		2,400	41		241			1,391	1,445				38,852		66	2,302

PAVEMENT DELINEATION QUANTITIES

PDQ-3

REVISED BY	DBL
DATE REVISED	12/22/09
CALCULATED-DESIGNED BY	JASON YAW
CHECKED BY	DAVID LEW
CONSULTANT FUNCTIONAL SUPERVISOR	ROSS LEW

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 07:52
12-22-09

BORDER LAST REVISED 8/1/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trmnguye
DGN FILE => c07163nc003.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	998	1929

REGISTERED CIVIL ENGINEER — DATE 12/22/09

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JASON YAW
No. C73422
Exp.
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.

TRC
21 TECHNOLOGY Dr
IRVINE, CA 92618

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

PAVEMENT DELINEATION

SHEET No.	STATION LIMITS		DIRECTION	PAINT TRAFFIC STRIPE 4" (2-COAT BLACK) DETAIL 13 Mod, 14 Mod, H-A, H-B	THERMOPLASTIC TRAFFIC STRIPE										DELINEATOR (CLASS 1)		THERMOPLASTIC PAVEMENT MARKING			PAVEMENT MARKER						REMOVE THERMOPLASTIC			REMOVE
					4"					6"	8"										RETROREFLECTIVE				TRAFFIC STRIPE			
					WHITE (BROKEN 17-7) DETAIL 9	WHITE (BROKEN 36-12) DETAIL 12, 13 Mod, 14 Mod	WHITE (BROKEN 6-1) DETAIL 40	SOLID WHITE DETAIL A, 27B, H-1, H-2	SOLID YELLOW DETAIL 22, 25, 25A, 29, H-1, H-2, H-3	SOLID WHITE DETAIL 39, 39A	WHITE (BROKEN 12-3) DETAIL 37, 37B	WHITE (BROKEN 36-12) DETAIL H-B	SOLID WHITE DETAIL 36, 36A, 36B, 38, 38A, 38B, H-A	TYPE F	TYPE G	SOLID WHITE DETAIL CW, LL, DY	ARROWS/SYMBOLS/WORDS (WHITE)	DRAINAGE INLET MARKER	TYPE A NON-REFLECTIVE	TYPE C	TYPE D	TYPE G	TYPE H	WHITE	YELLOW	PAVEMENT MARKING	PAVEMENT MARKER
				LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	SQFT	SQFT	EA	EA	EA	EA	EA	EA	LF	LF	SQFT	EA
	"A-1" 106+80	TO "A-1" 111+00	NB (I-605)	324		1,275		200	2,100				225						106			48	76	3,500	1,350		254
	"A-1" 98+50	TO "A-1" 111+00	SB (I-605)	948		3,750		850	2,930				475						313			115	94	5,400	199		420
	"A-1" 97+50	TO "A-1" 111+00	NB (HOV)					90	1,350				840				84					46	37				
	"A-1" 97+50	TO "A-1" 111+00	SB (HOV)					930	1,350								84						37				
PD-11	"A-3" 64+90	TO "A-3" 74+38	NB	240		945		942	390				555	4	1				79			55	25	1,560			103
	"A-4" 31+00	TO "A-4" 44+50	NB	36		100		1,355	1,130				225	3					8			24	56	1,550	1,150		30
	"B-1" 16+50	TO "B-1" 23+75	SB					725	315				400	6	2							28	22	1,100			
	"C-1" 30+80	TO "C-1" 40+11	NB	240		930		380	90				1,400	1					78			90	10				
	"A-1" 111+00	TO "A-1" 116+06	NB (I-605)	420		1,640		100	3,000				405						137			63	99				
	"A-1" 111+00	TO "A-1" 116+06	SB (I-605)	384		1,530		500	3,000		275		225	1					128	22		54	99				
PD-12	"A-4" 44+50	TO "A-4" 48+50	NB					405					405	3								28		1,100			
	"B" 209+60	TO "B" 215+50	NB	840		2,360		600	1,850				117	1			28		197			81	61	4,950	1,100		430
	"B" 209+60	TO "B" 215+50	SB	444		1,770		600	3,600		600			1					148	22		48	117	4,400	1,100		369
PD-13	"B" 215+50	TO "B" 225+50	NB	1,680		4,000		1,000	1,000				333	2			56		333			151	29	5,100	1,000	44	535
	"B" 215+50	TO "B" 225+50	SB	756		3,000		1,000	6,000		1,000			2					250	36		74	189	4,000	1,000		337
PD-14	"B" 225+50	TO "B" 237+50	NB	876		200		50	50		50		400						17	4		84	10	1,350			142
	"B" 225+50	TO "B" 237+50	SB	876		2,345		1,220	5,225		790		135	2			84		195	29		84	165	3,255	1,200		213
PD-15	"B" 237+50	TO "B" 242+00	NB	312									149									37		149			14
	"B" 237+50	TO "B" 250+50	SB	888				98	1,300				433				56					85	36	58	1,300		37
SUBTOTAL				9,264		23,845		11,045	34,680		2,715		6,722	26	3		392		1,989	113		1,195	1,162	37,472	9,399	44	2,884
SHEET TOTAL				9,264		23,845		45,725			2,715		6,722	29		392			1,989	2,470				46,871		44	2,884

PAVEMENT DELINEATION QUANTITIES

PDQ-4

CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW
CALCULATED-DESIGNED BY: JASON YAW
CHECKED BY: DAVID LEW
REVISED BY: DBL
DATE REVISED: 12/22/09

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 07:52

BORDER LAST REVISED 8/1/2008

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USERNAME => trmnguye
DGN FILE => c07163nc004.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	999	1929

12/22/09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JASON YAW
No. C73422
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

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TRC
21 TECHNOLOGY Dr
IRVINE, CA 92618

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

PAVEMENT DELINEATION

SHEET No.	STATION LIMITS	DIRECTION	PAINT TRAFFIC STRIPE 4" (2-COAT BLACK) DETAIL 13 Mod, 14 Mod, H-A, H-B	THERMOPLASTIC TRAFFIC STRIPE 4" WHITE (BROKEN 17-7) DETAIL 9	4" WHITE (BROKEN 36-12) DETAIL 12, 13 Mod, 14 Mod	4" WHITE (BROKEN 6-1) DETAIL 40	4" SOLID WHITE DETAIL A, 27B, H-1, H-2	4" SOLID YELLOW DETAIL 22, 25, 25A, 29, H-1, H-2, H-3	6" SOLID WHITE DETAIL 39, 39A	8" WHITE (BROKEN 12-3) DETAIL 37, 37B	8" WHITE (BROKEN 36-12) DETAIL H-B	8" SOLID WHITE DETAIL 36, 36A, 36B, 38, 38A, 38B, H-A	DELINEATOR (CLASS 1) TYPE F	DELINEATOR (CLASS 1) TYPE G	THERMOPLASTIC PAVEMENT MARKING SOLID WHITE DETAIL CW, LL, DY	THERMOPLASTIC PAVEMENT MARKING ARROWS/SYMBOLS/WORDS (WHITE)	THERMOPLASTIC PAVEMENT MARKING DRAINAGE INLET MARKER	PAVEMENT MARKER TYPE A NON-REFLECTIVE	PAVEMENT MARKER RETROREFLECTIVE TYPE C	PAVEMENT MARKER RETROREFLECTIVE TYPE D	PAVEMENT MARKER RETROREFLECTIVE TYPE G	PAVEMENT MARKER RETROREFLECTIVE TYPE H	REMOVE THERMOPLASTIC TRAFFIC STRIPE WHITE	REMOVE THERMOPLASTIC TRAFFIC STRIPE YELLOW	REMOVE THERMOPLASTIC PAVEMENT MARKING	REMOVE PAVEMENT MARKER
			LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	SQFT	SQFT	EA	EA	EA	EA	EA	EA	LF	LF	SQFT	EA
PD-16	"B" 250+50 TO "B" 263+50	SB	864					1,300				432				28					83	36		1,300		29
PD-17	"B" 263+50 TO "HV" 271+05	SB	504					755				251				84					53	24		753		24
PD-18	"A" 491+50 TO "A" 493+00	NB	120		450		300	450										38			21	24	600	450	11	67
	"A" 491+50 TO "A" 494+05	SB	192		765		510	765										64			27	36	1,250	500	11	159
PD-19	"A-2" 10+00 TO "A-2" 16+50	EB	168		650		650	650					4					54			25	36	1,300	650		137
	"XC-1" 53+25 TO "XC-1" 54+50	EB								125									7				125			24
PD-20	"SB" 62+50 TO "SB" 64+00	NB			450																21		450			11
	"SB" 62+50 TO "SB" 68+60	SB			590				580			390				105					41		1,580		60	14
PD-21	"SB" 38+50 TO "SB" 48+50	NB			1,665		100	3,600	723	250		390			55	248				78	73		2,170			54
	"SB" 39+75 TO "SB" 48+50	SB			1,079		100	3,100	476			390			198	97				68	55		1,680			12
	"SB" 43+00	SB															1									
	"SB-2" 57+50 TO "SB-2" 62+00	SB		450			450	450													21	27	900	450		41
	"SB-3" 26+50 TO "SB-3" 28+20	SB		160			160	160							40						15	15	320	160		27
PD-22	"SB" 30+50 TO "SB" 38+50	NB			556			868	536	340		214				134				22	56		1,100	550		37
PD-23	"XC" 165+00 TO "XB-3" 45+50	WB	84		331		666	496				759						28			48	16	2,267	496		64
PD-24	"XB-3" 45+50 TO "XB-3" 58+50	WB					1,300	1,313														57	1,300	1,313		57
PD-25	"XB-3" 58+50 TO "XB-3" 71+50	WB					590	596														27	590	596		27
PD-26	E. 2nd St	WB														58									58	
SUBTOTAL			1,932	610	6,536		4,826	14,503	2,315	715		2,826	4		293	754	1	184	7	168	539	298	15,632	7,218	140	784
SHEET TOTAL			1,932	610	6,536		19,329		2,315	715		2,826	4		1,047		1	184	1,012				22,850		140	784
GRAND TOTAL			36,912	2,910	127,771	260	225,853		4,258	12,205	2,885	25,146	217		4,124		3	9,901	11,498				264,229		760	15,867

PAVEMENT DELINEATION QUANTITIES

PDQ-5

CALCULATED-DESIGNED BY: JASON YAW
CHECKED BY: DAVID LEW
REVISED BY: DBL
DATE REVISED: 12/22/09
CONSULTANT FUNCTIONAL SUPERVISOR: ROSS LEW
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 07:52
12-22-09

BORDER LAST REVISED 8/1/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmnguye
DGN FILE => c07163nc005.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	1000	1929

REGISTERED CIVIL ENGINEER — 8/10/09 DATE

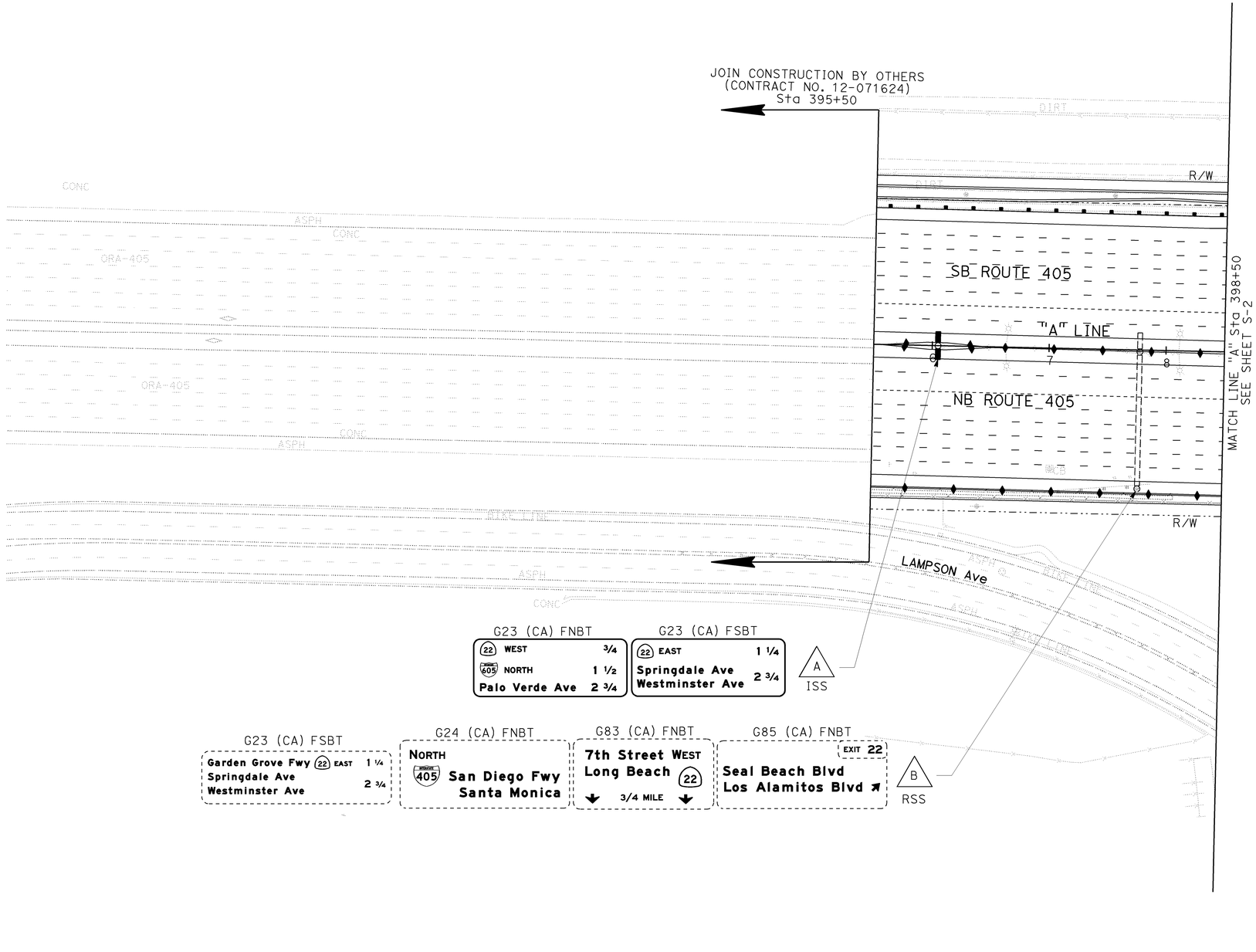
THERESA M. GAISSER No. C69442 Exp 07/06/10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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.

PBS&J
625 THE CITY DRIVE
SOUTH, SUITE 200
ORANGE, CA 92648

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



LEGEND

E	EXISTING SIGN
XX-XX	INSTALL ROADSIDE SIGN AND POST (WITH NUMBER)
XX	OVERHEAD SIGN STRUCTURE (WITH LETTER)
	EXISTING / NEW SINGLE POST ROADSIDE SIGN
	EXISTING / NEW DOUBLE POST ROADSIDE SIGN
	EXISTING / NEW SIGN BRIDGE STRUCTURE
	EXISTING / NEW CANTILEVER SIGN STRUCTURE

ABBREVIATIONS

EX	EXISTING TO REMAIN
BMS	BARRIER MOUNTED SIGN
ISS	INSTALL SIGN STRUCTURE
ISB	INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)
IWB	INSTALL ROADSIDE SIGN (LAMINATED WOOD BOX POST)
RSS	REMOVE SIGN STRUCTURE
RM	REMOVE ROADSIDE SIGN
MSS	MODIFY SIGN STRUCTURE

GENERAL NOTES

1. EXACT LOCATIONS AND POSITIONS OF ROADSIDE SIGNS TO BE DETERMINED BY THE ENGINEER.
2. SIGN FORMATS ARE NOT TO SCALE.
3. FOR COMPLETE RIGHT OF WAY DATA AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

SIGN PLAN

SCALE: 1" = 50'

S-1

THIS PLAN ACCURATE FOR SIGN WORK ONLY

REVISED BY	DATE REVISED
TG	8/10/09

CALCULATED-DESIGNED BY: JIMMY TARQUINIO
CHECKED BY: THERESA GAISSER
CONSULTANT FUNCTIONAL SUPERVISOR: KEYVAN PIRBZARI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 08-10-09 | DATE PLOTTED => 04-FEB-2010 | TIME PLOTTED => 07:52

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