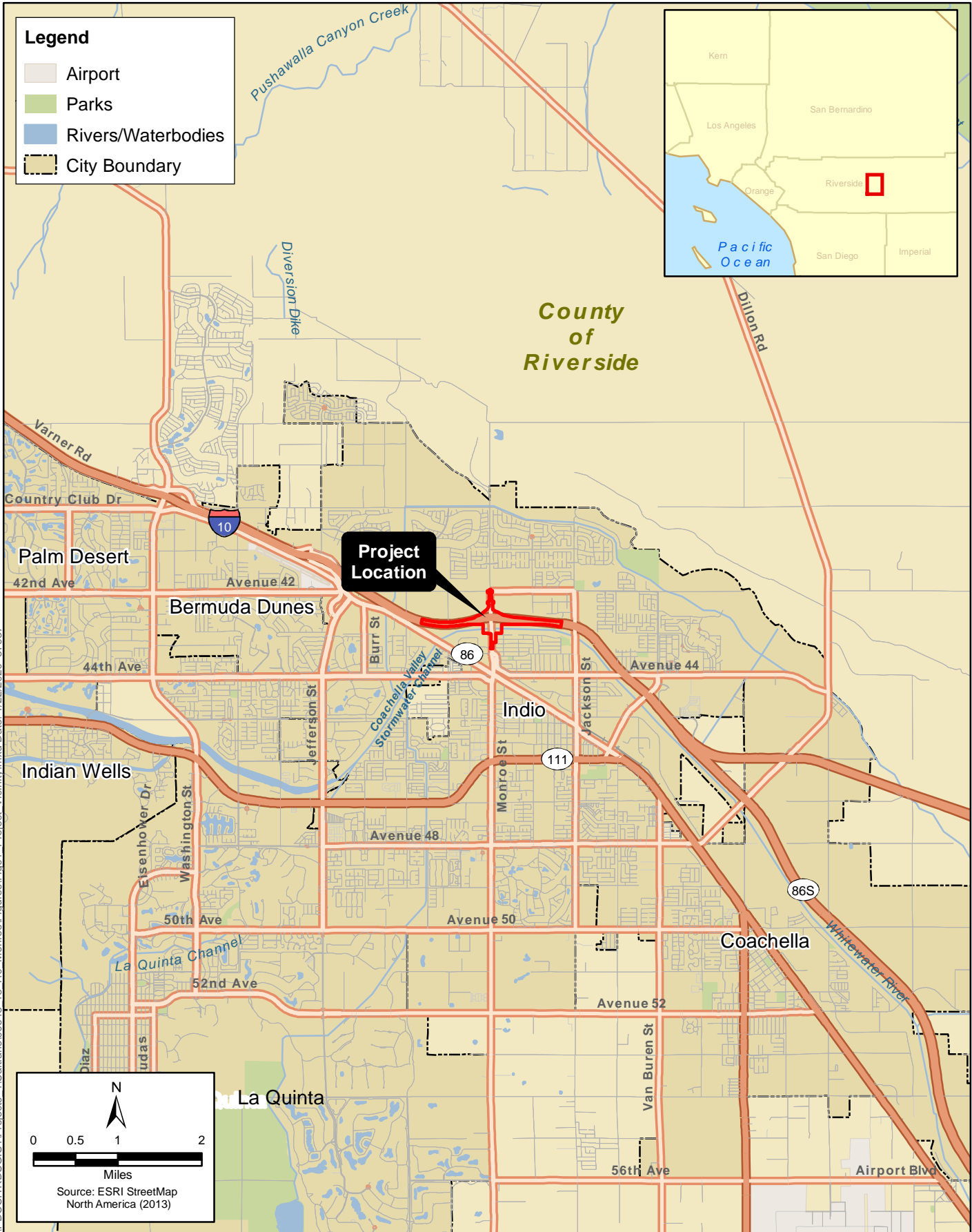


Location Map

Attachment A

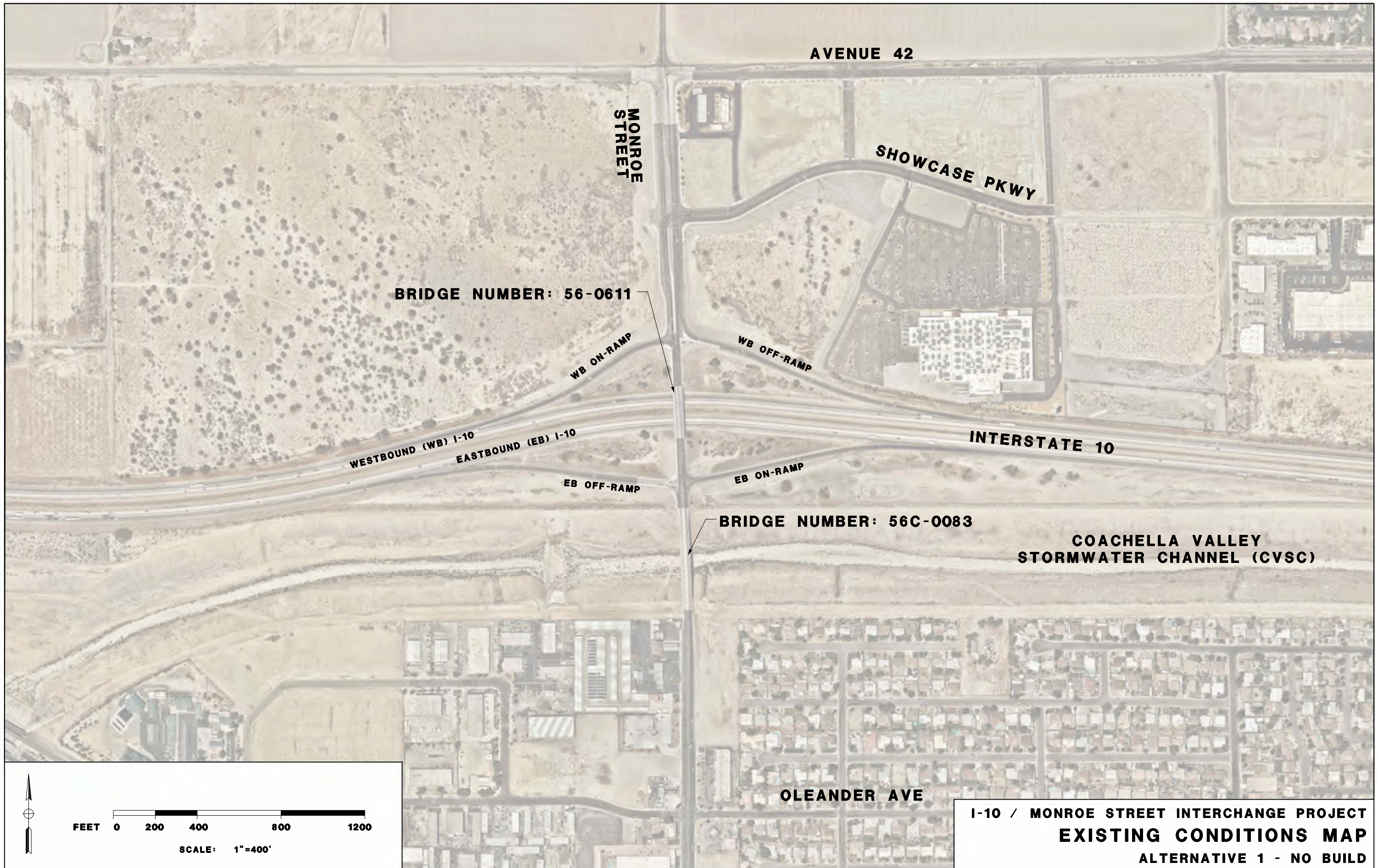


\PDC\ITRDS\GIS\Projects_1\Caltrans\00648_18_110_Monroe\Figures\Fig01_Protect_Vicinity.mxd Date: 1/22/2020 3:7937

Regional Vicinity Map
Interstate 10/Monroe Avenue Interchange Improvement Project
Attachment A

Existing Conditions Map

Attachment B



AVENUE 42

MONROE STREET

SHOWCASE PKWY

BRIDGE NUMBER: 56-0611

WB ON-RAMP

WB OFF-RAMP

WESTBOUND (WB) I-10

EASTBOUND (EB) I-10

INTERSTATE 10

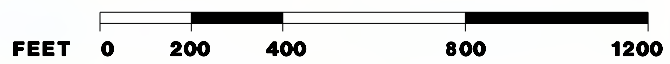
EB OFF-RAMP

EB ON-RAMP

BRIDGE NUMBER: 56C-0083

COACHELLA VALLEY STORMWATER CHANNEL (CVSC)

OLEANDER AVE



SCALE: 1"=400'

I-10 / MONROE STREET INTERCHANGE PROJECT
EXISTING CONDITIONS MAP
ALTERNATIVE 1 - NO BUILD

Geometric Drawings
Alternative 2
Attachment C

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
8	Riv	10	R53.9/R55.5		

REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL DATE	

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

NOTES:

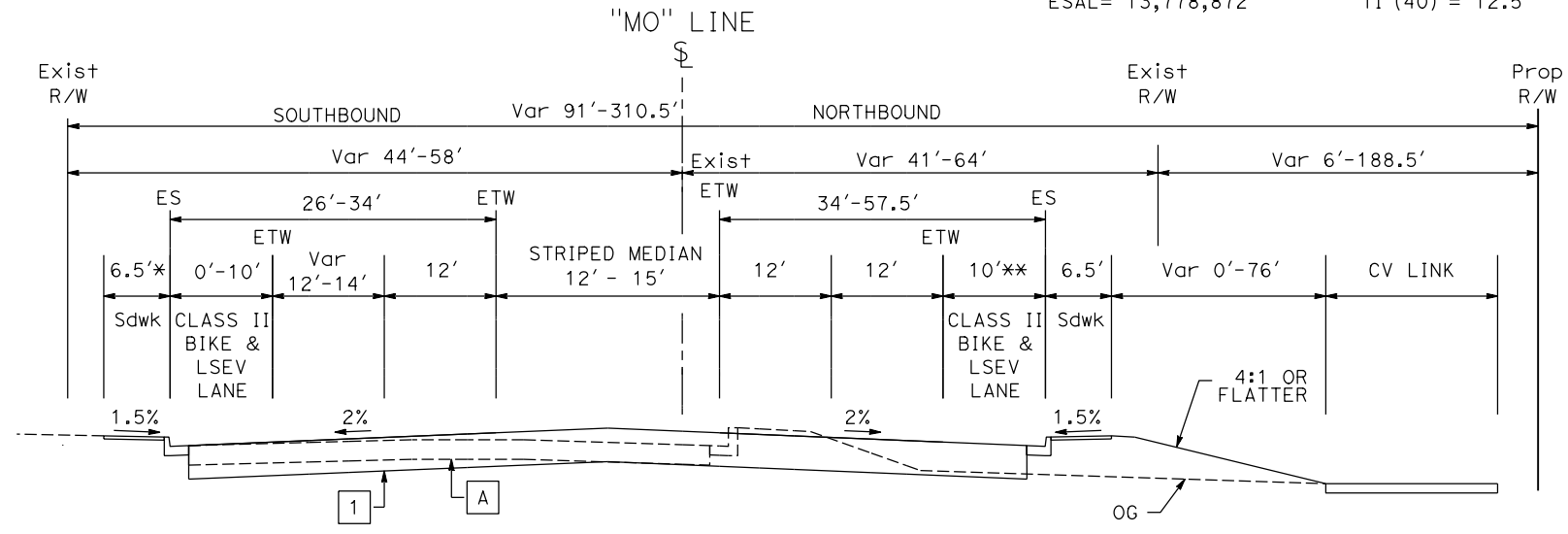
- DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- SLOPE ROUNDING IS REQUIRED AT ALL TOP OF SLOPE AND TOE OF SLOPE LOCATIONS.
- CURB AND GUTTER, SIDEWALK, AND CURB DETAILS WILL BE DETERMINED IN THE FINAL DESIGN PHASE AND WILL BE IN ACCORDANCE WITH THE LATEST CALTRANS AND CITY STANDARDS AND SPECIFICATIONS.
- TAPERED EDGE REQUIRED, AS APPLICABLE PER THE LATEST CALTRANS STANDARD PLANS. A TAPERED EDGE IS NOT REQUIRED FOR PAVEMENT ADJACENT TO GUARDRAIL, CURB, DIKE, BARRIERS, LANDSCAPE PAVING, AND WALLS.

PAVEMENT CLIMATE REGION	
DESERT	
DESIGN DESIGNATION (I-10)	
ADT (2025) = 90,100	D = 52%
ADT (2045) = 155,300	T = 34%
DHV = 13,100	VD = 75 MPH
ESAL= 685,497,457	TI (40) = 19.5
DESIGN DESIGNATION (MONROE St)	
ADT (2025) = 29,520	D = 52%
ADT (2045) = 38,600	T = 9%
DHV = 3,200	VD = 45 MPH
ESAL= 13,778,872	TI (40) = 12.5

EXISTING PAVEMENT STRUCTURAL SECTIONS	
A	0.60' HMA (TYPE A) 0.45' AB (CLASS 2)
B	0.75' PCC 0.45' CTB (CLASS A) 0.25' AB (CLASS 2) 0.50' AGGREGATE SUBBASE (CLASS 4)

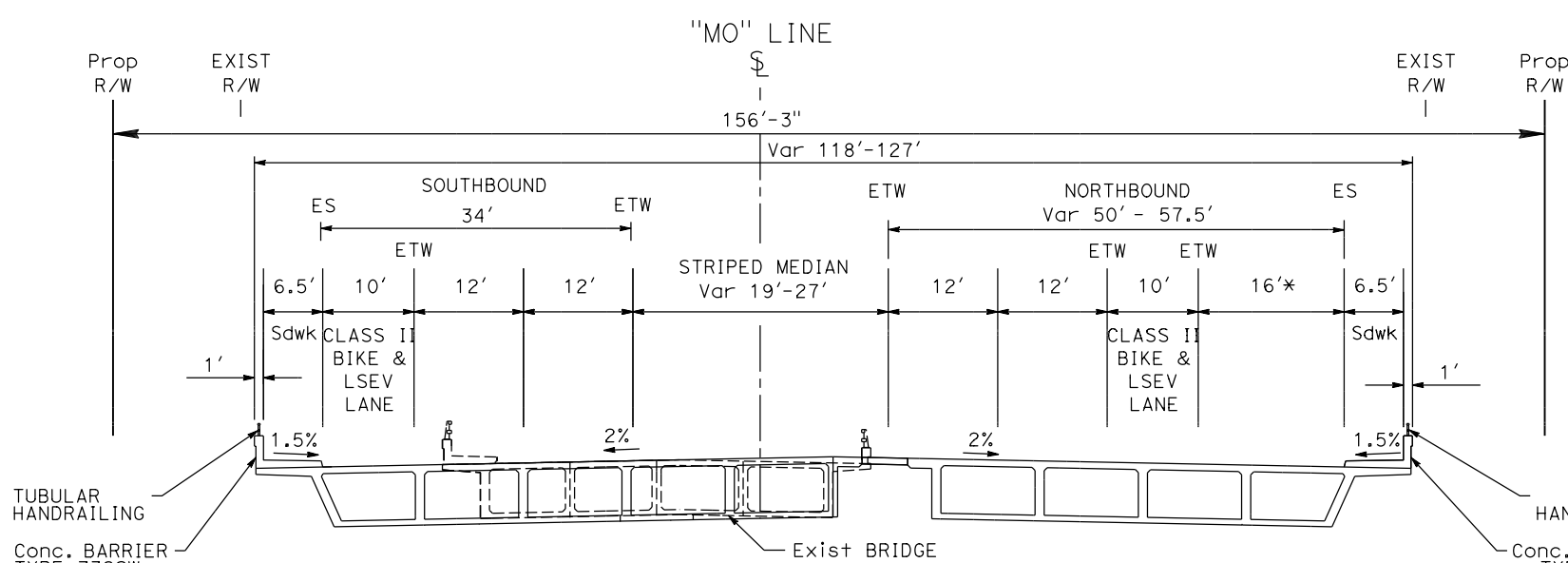
TYPICAL PAVEMENT STRUCTURAL SECTIONS

1	0.85' CRCP 0.25' HMA-A 0.70' CLASS 2 AB TI (40) = 12.5	MONROE STREET
2	0.85' JPCP 1.50' CLASS 2 AB TI (40) = 11.0	RAMPS
3/4	1.10' CRCP 0.25' HMA-A 0.70' CLASS 2 AB TI (40) = 19.5	ROUTE 10 LANE & SHOULDER



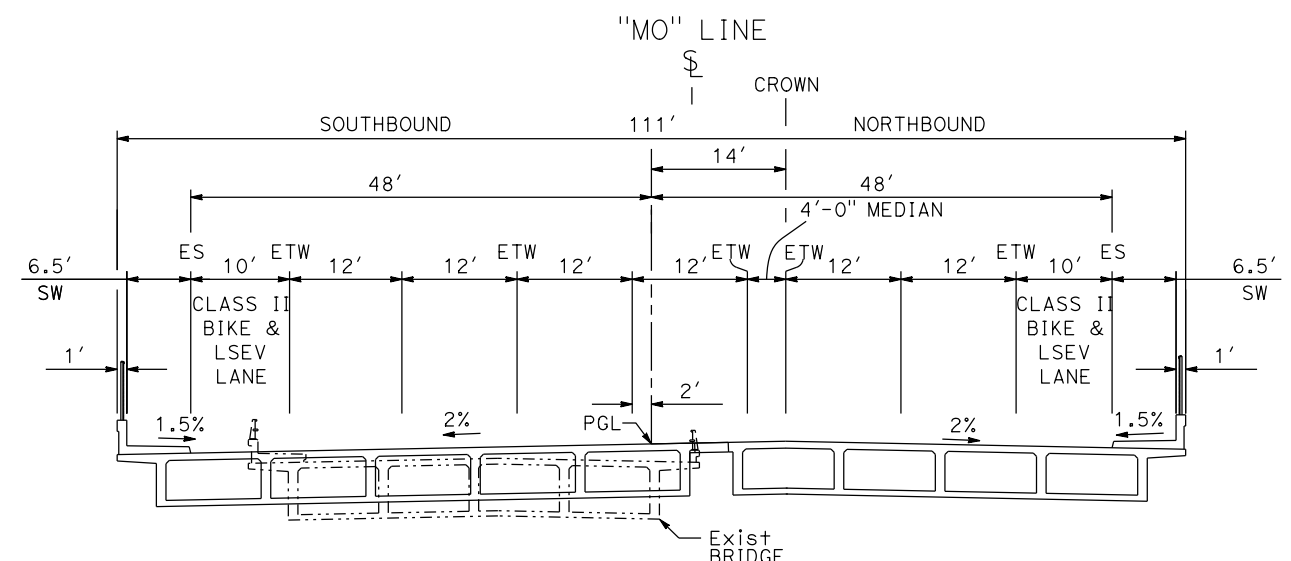
MONROE STREET

Sta 30+69.24 TO 37+00.00
 *(10') Sdwb from Sta 30+69.24 TO 36+00.00
 **10' BIKE LANE and 23.5' Shld from Sta 36+23.00 TO 37+00.00



MONROE CHANNEL BRIDGE

Sta 37+00.00 TO 42+75.00
 *Sta 37+00.00 TO 38+77.04 NO TURN POCKET AND Shld Var 20.5'-23.5'



MONROE STREET OVERCROSSING (I-10)

Sta 43+54.00 TO 49+00.00

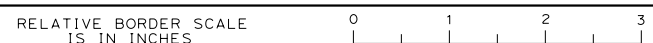
**ALTERNATIVE 2
TYPICAL CROSS SECTIONS**

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Et Caltrans

USERNAME => Alejandro.Tapia
 DGN FILE => 163333-A1+2_X-1.dgn



UNIT PROJECT NUMBER & PHASE

BORDER LAST REVISED 7/2/2010

LAST REVISION DATE PLOTTED => 20-09-2020
 00-00-00 TIME PLOTTED => 09:24

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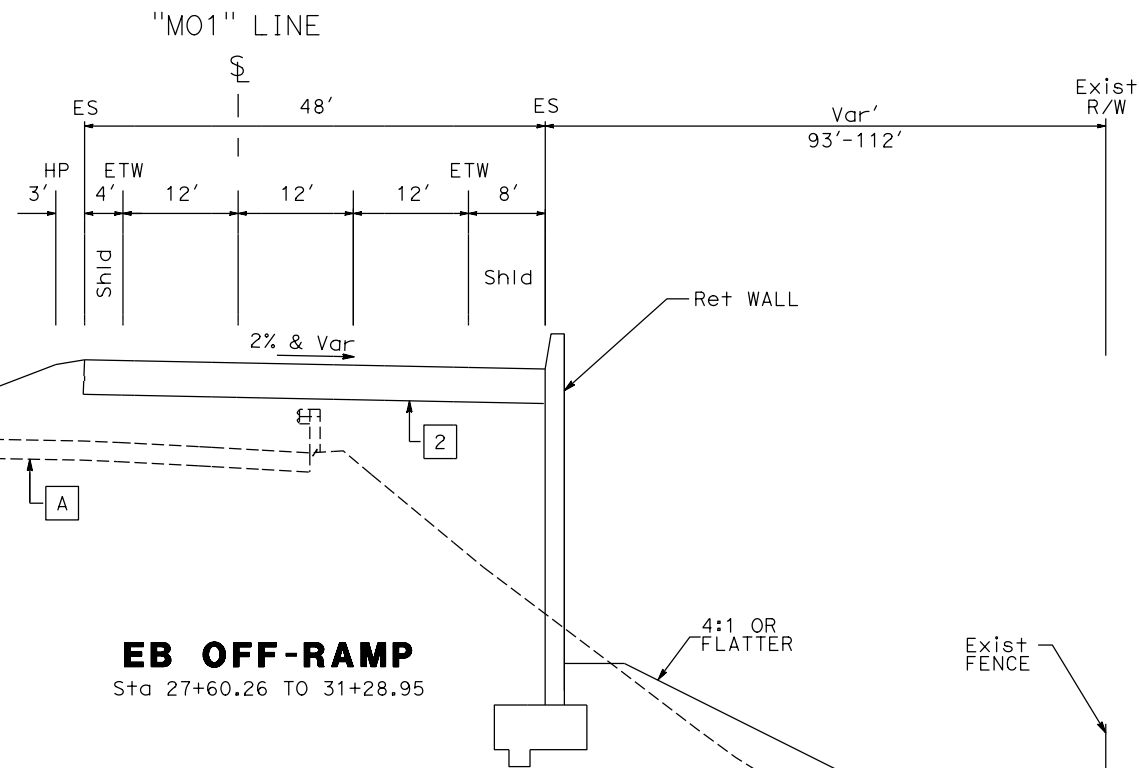
REGISTERED CIVIL ENGINEER DATE _____

PLANS APPROVAL DATE _____

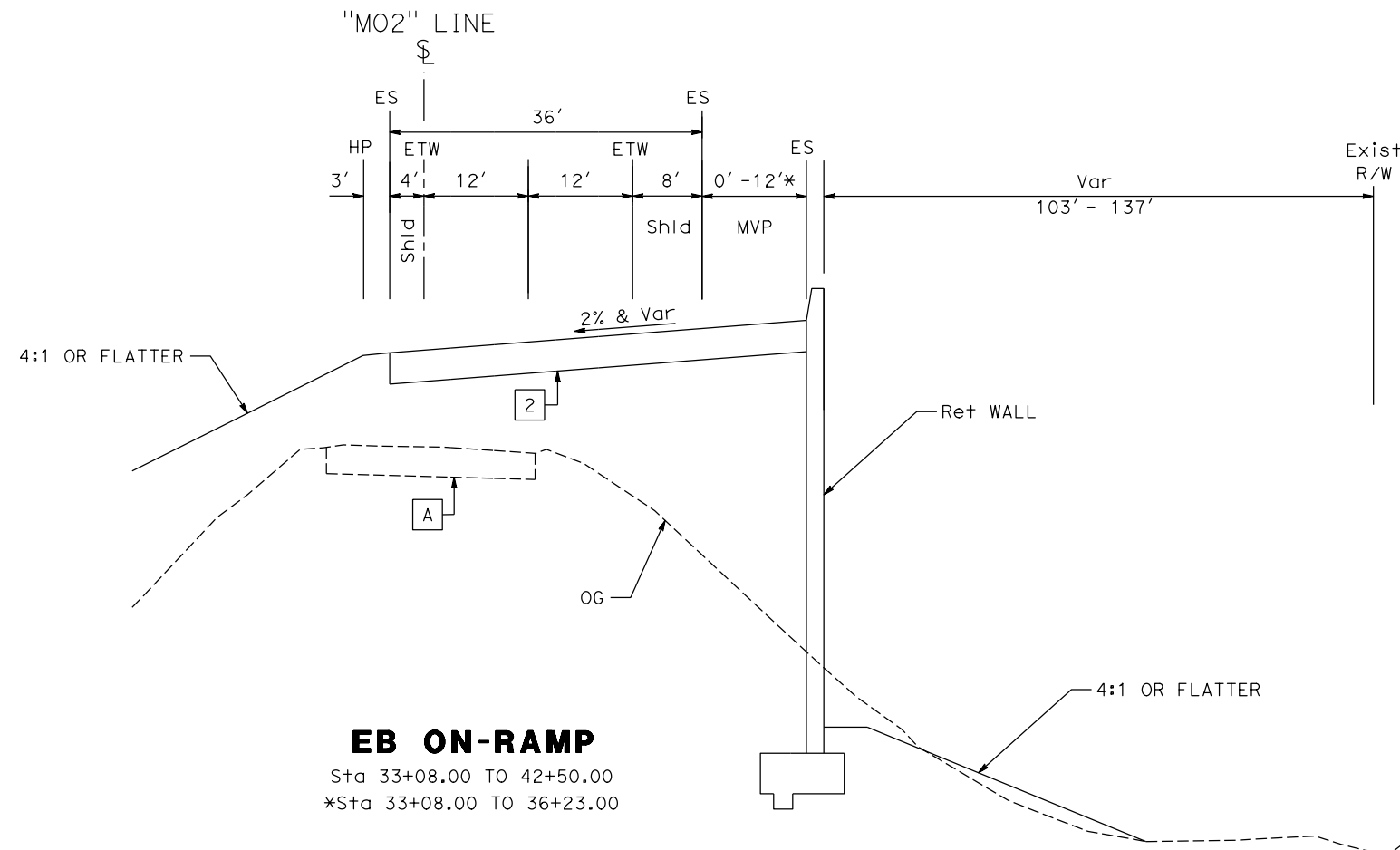
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SLOPE ROUNDING IS REQUIRED AT ALL TOP OF SLOPE AND TOE OF SLOPE LOCATIONS.
3. TAPERED EDGE REQUIRED , AS APPLICABLE PER THE LATEST CALTRANS STANDARD PLANS. A TAPERED EDGE IS NOT REQUIRED FOR PAVEMENT ADJACENT TO GUARDRAIL, CURB, DIKE, BARRIERS, LANDSCAPE PAVING, AND WALLS.



EB OFF-RAMP
Sta 27+60.26 TO 31+28.95



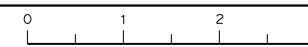
EB ON-RAMP
Sta 33+08.00 TO 42+50.00
*Sta 33+08.00 TO 36+23.00

**ALTERNATIVE 2
TYPICAL CROSS SECTIONS**

NO SCALE

X-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR BY
		CHECKED BY	DATE REVISED



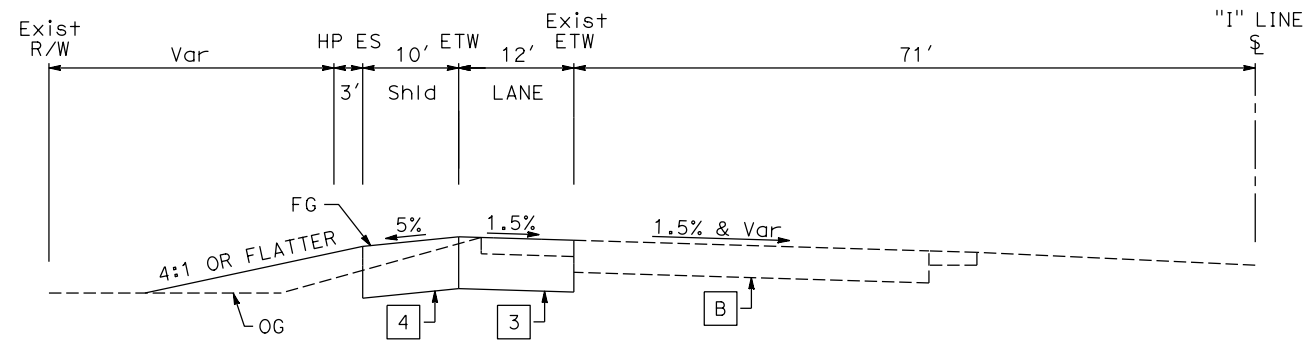
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
8	Riv	10	R53.9/R55.5		

REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL DATE	

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

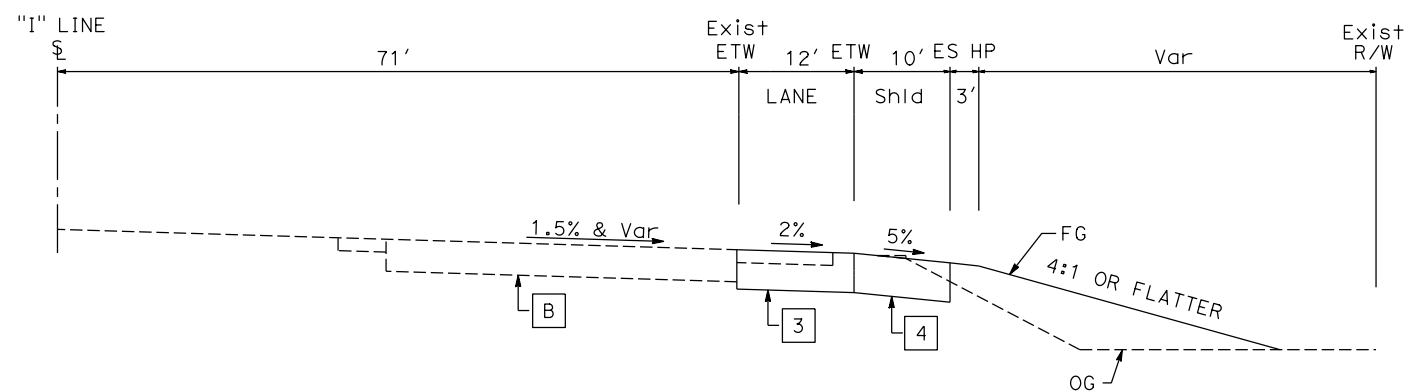
NOTES:

- DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- SLOPE ROUNDING IS REQUIRED AT ALL TOP OF SLOPE AND TOE OF SLOPE LOCATIONS.
- TAPERED EDGE REQUIRED, AS APPLICABLE PER THE LATEST CALTRANS STANDARD PLANS. A TAPERED EDGE IS NOT REQUIRED FOR PAVEMENT ADJACENT TO GUARDRAIL, CURB, DIKE, BARRIERS, LANDSCAPE PAVING, AND WALLS.



ROUTE 10 - WESTBOUND

WESTBOUND ACCELERATION / DECELERATION LANE
Sta 1108+90.83 TO 1118+82.00
Sta 1145+00.00 TO 1158+00.51



ROUTE 10 - EASTBOUND

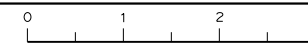
EASTBOUND AUXILIARY LANE / DECELERATION LANE
Sta 1110+78.47 TO 1116+80.00
Sta 1149+50.00 TO 1173+47.51

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR BY
		CHECKED BY	DATE REVISED

**ALTERNATIVE 2
TYPICAL CROSS SECTIONS**

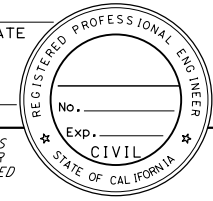
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X-4



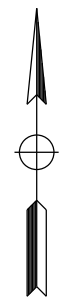
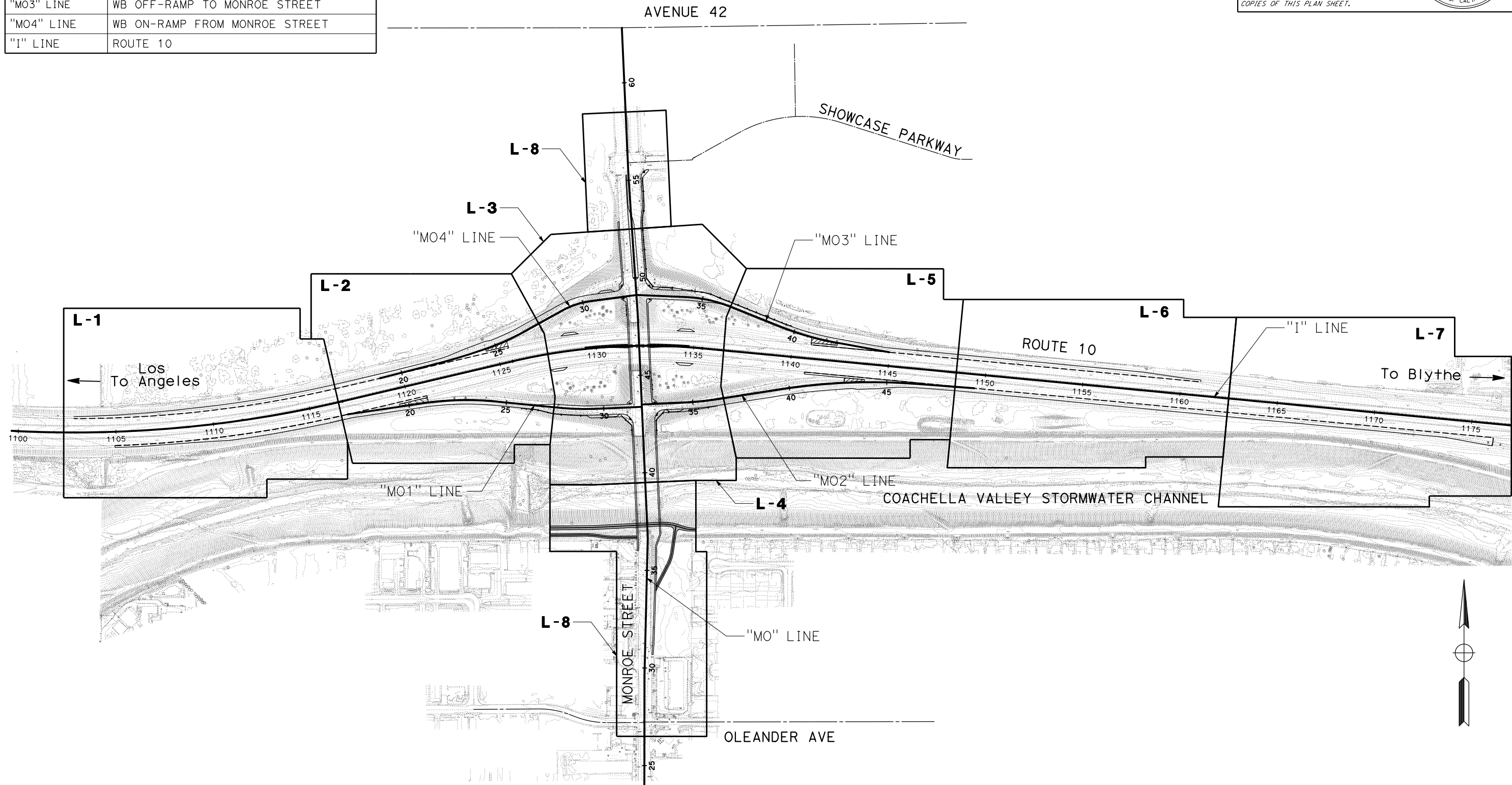
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
8	Riv	10	R53.9/R55.5		

REGISTERED CIVIL ENGINEER DATE _____
 PLANS APPROVAL DATE _____
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LINE INDEX

LINE NAME	LINE DESCRIPTION
"M0" LINE	MONROE STREET
"M01" LINE	EB OFF-RAMP TO MONROE STREET
"M02" LINE	EB ON-RAMP FROM MONROE STREET
"M03" LINE	WB OFF-RAMP TO MONROE STREET
"M04" LINE	WB ON-RAMP FROM MONROE STREET
"I" LINE	ROUTE 10



ALTERNATIVE 2 - TDI
 KEY MAP AND LINE INDEX

NO SCALE

K-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Et-Catrans®
 CONSULTANT FUNCTIONAL SUPERVISOR
 CALCULATED-DESIGNED BY
 CHECKED BY
 REVISED BY
 DATE REVISED

USERNAME => Steven.Alvarez
 DGN FILE => 163333-A1+2_K-1.dgn

RELATIVE BORDER SCALE IS IN INCHES
 0 1 2 3

UNIT

PROJECT NUMBER & PHASE

BORDER LAST REVISED 7/2/2010

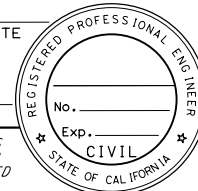
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REGISTERED CIVIL ENGINEER DATE

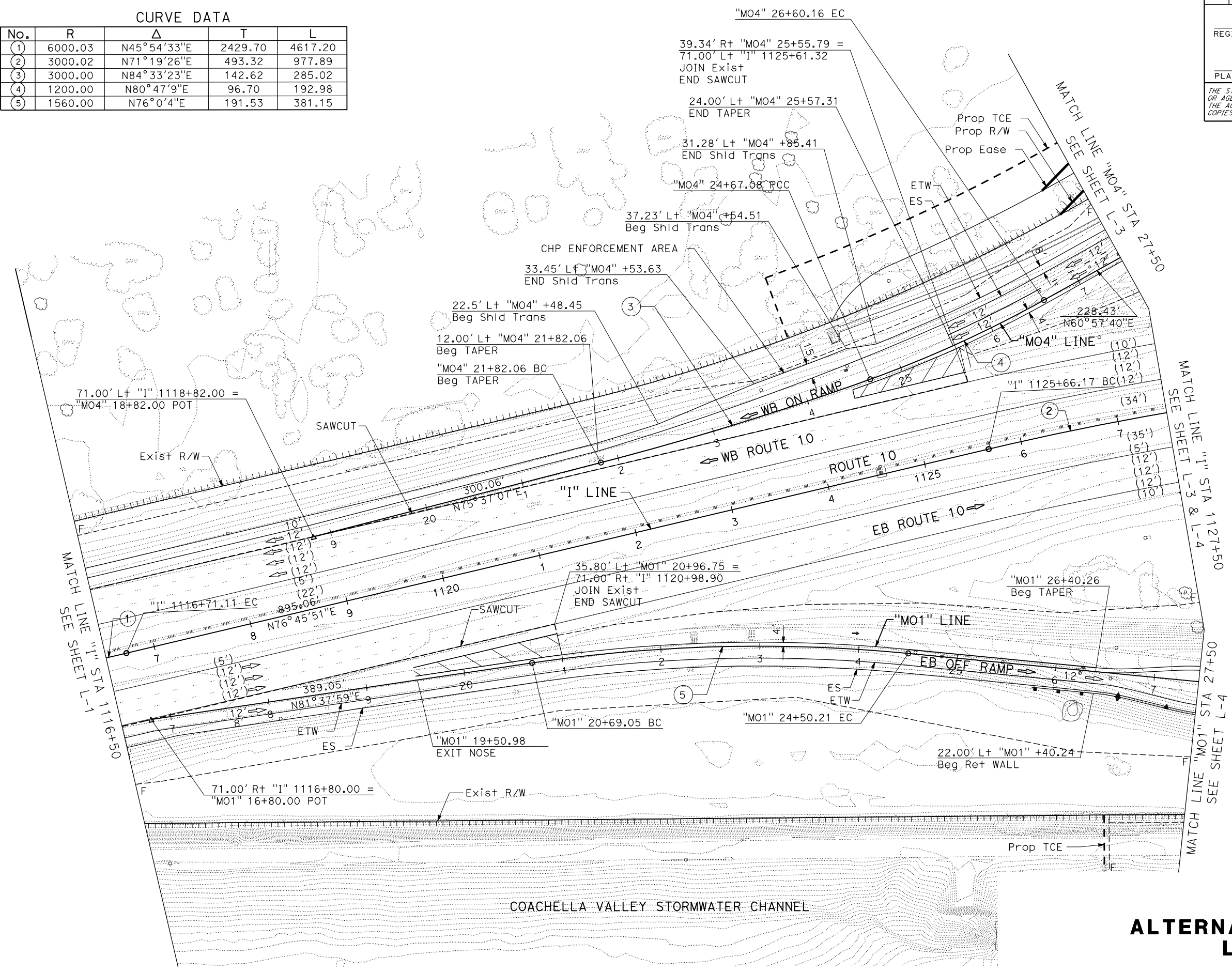
PLANS APPROVAL DATE

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



CURVE DATA

No.	R	Δ	T	L
①	6000.03	N45°54'33"E	2429.70	4617.20
②	3000.02	N71°19'26"E	493.32	977.89
③	3000.00	N84°33'23"E	142.62	285.02
④	1200.00	N80°47'9"E	96.70	192.98
⑤	1560.00	N76°0'4"E	191.53	381.15



ALTERNATIVE 2 - TDI LAYOUT

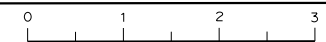
SCALE: 1" = 100'

L-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT FUNCTIONAL SUPERVISOR
 CALCULATED-DESIGNED BY
 CHECKED BY
 REVISED BY
 DATE REVISED

USERNAME => Steven.Alvarez
 DGN FILE => 163333-A1+2_Layout-02.dgn

RELATIVE BORDER SCALE IS IN INCHES



UNIT PROJECT NUMBER & PHASE

LAST REVISION DATE PLOTTED => 01-OCT-2020
 00-00-00 TIME PLOTTED => 11:04

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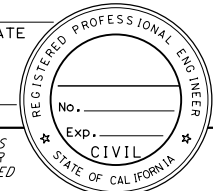
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(6)	400.00'	N68°30'51"E	75.89'	150.00'
(7)	8000.00'	N87°26'15"E	178.93'	357.80'
(8)	708.00'	N70°34'40"E	121.16'	240.00'
(9)	8000.00'	N87°26'15"E	178.93'	357.80'

REGISTERED CIVIL ENGINEER DATE _____

PLANS APPROVAL DATE _____

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

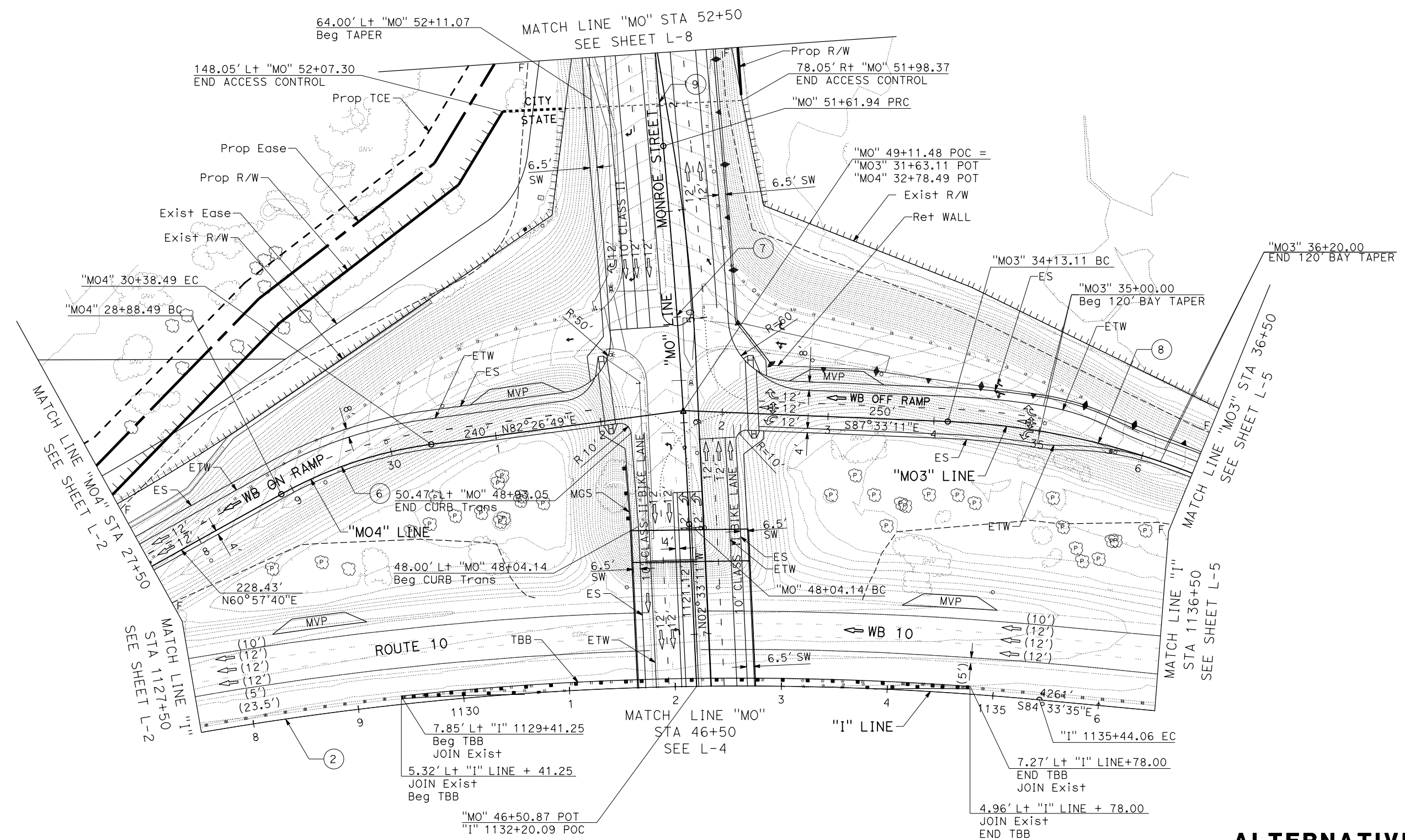
REVISOR: _____

DATE: _____

CALCULATED/DESIGNED BY: _____

CHECKED BY: _____

CONSULTANT FUNCTIONAL SUPERVISOR: _____



ALTERNATIVE 2 - TDI LAYOUT

SCALE: 1" = 100'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
8	Riv	10	R53.9/R55.5		


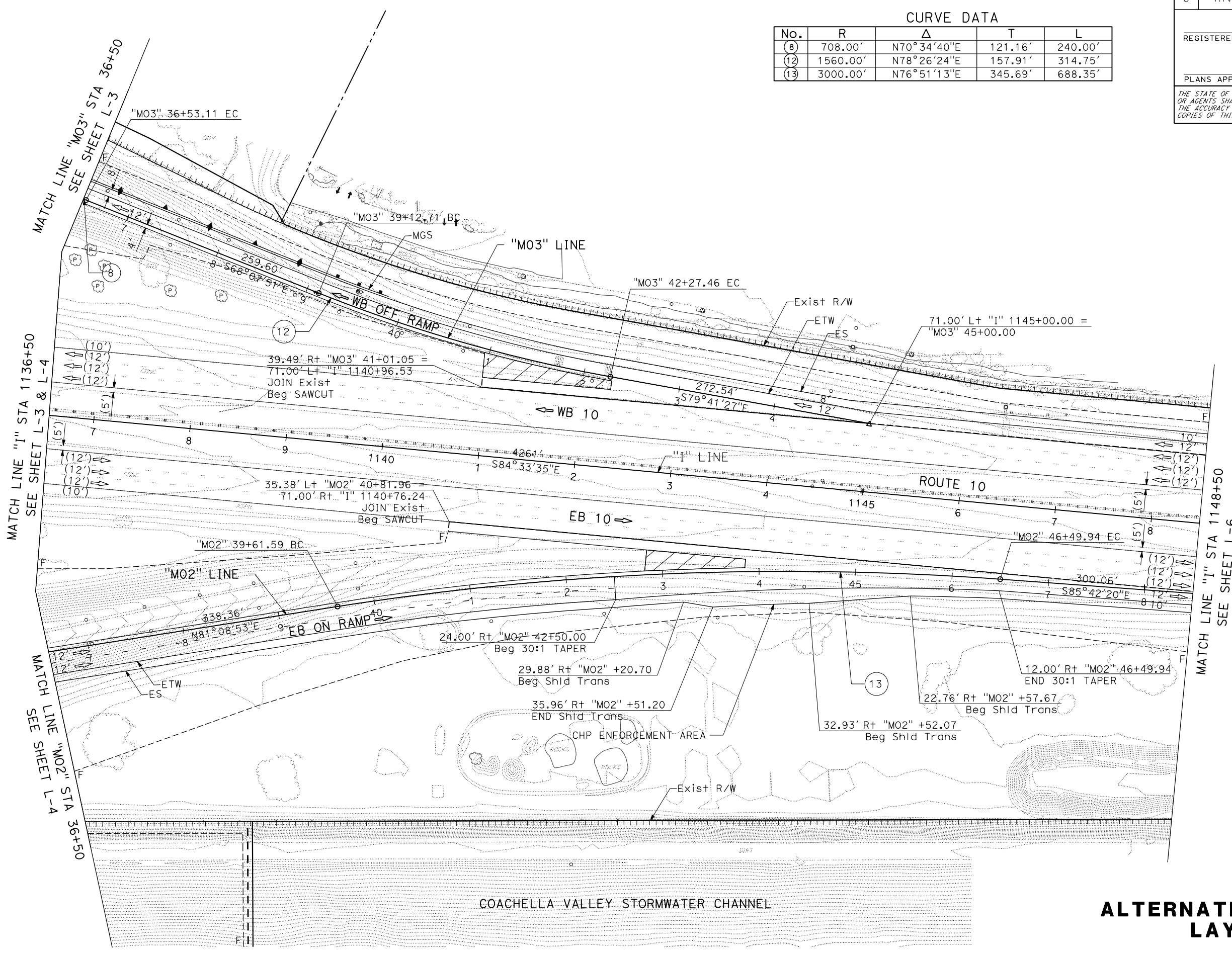
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(8)	708.00'	N70°34'40"E	121.16'	240.00'
(12)	1560.00'	N78°26'24"E	157.91'	314.75'
(13)	3000.00'	N76°51'13"E	345.69'	688.35'

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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ALTERNATIVE 2 - TDI LAYOUT

SCALE: 1" = 100'

L-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION



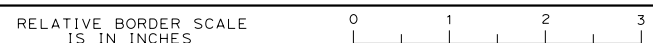
REVISOR: [] REVISION: []

DESIGNED BY: [] CHECKED BY: []

CONSULTANT FUNCTIONAL SUPERVISOR: []

DATE REVISION: [] DATE REVISION: []

USERNAME => Steven.Alvarez
DGN FILE => 163333-A1+2_Layout-05.dgn



UNIT PROJECT NUMBER & PHASE

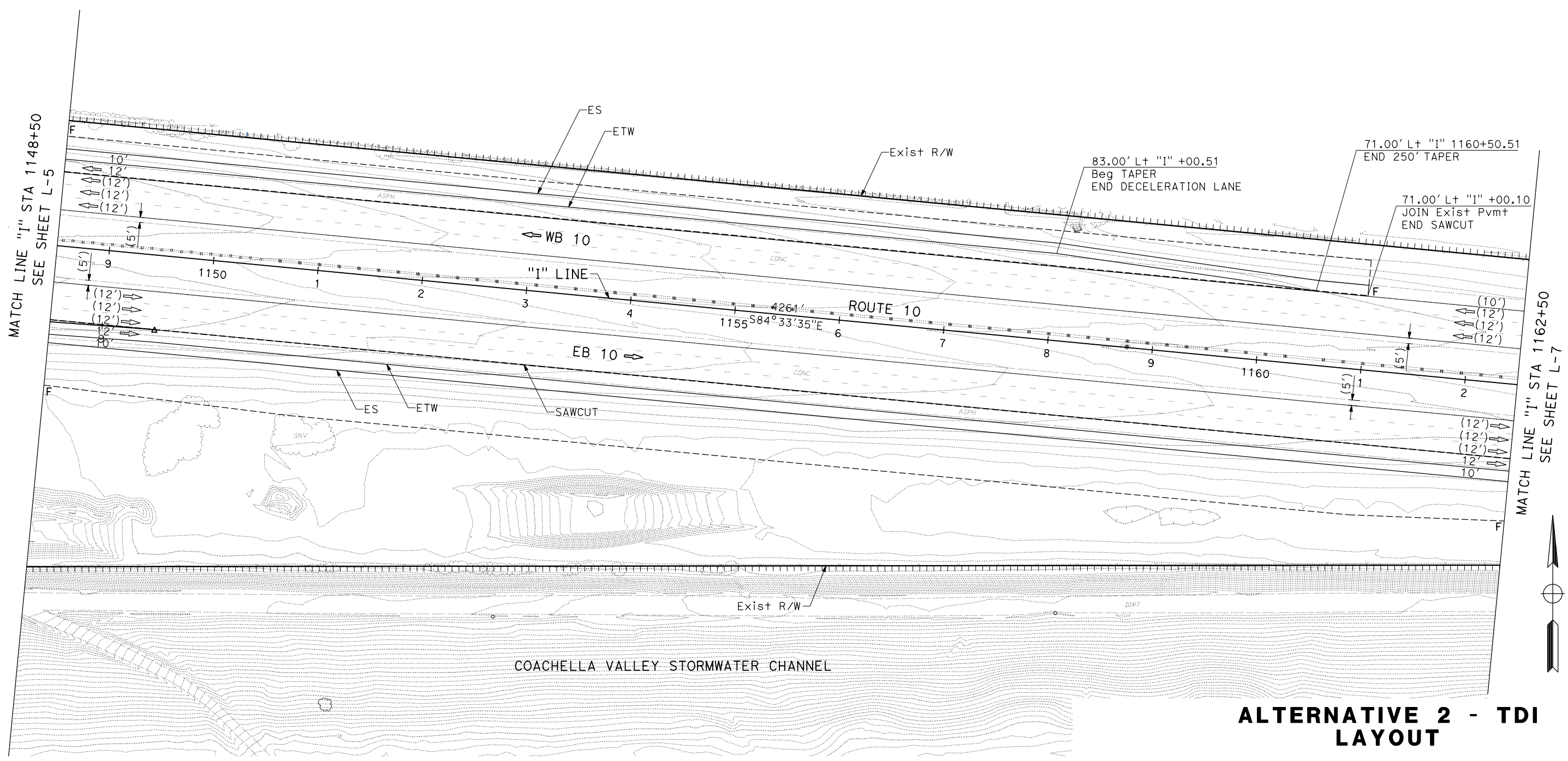
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REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL DATE	

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Caltrans		CHECKED BY		



ALTERNATIVE 2 - TDI LAYOUT

SCALE: 1" = 100'

L-6

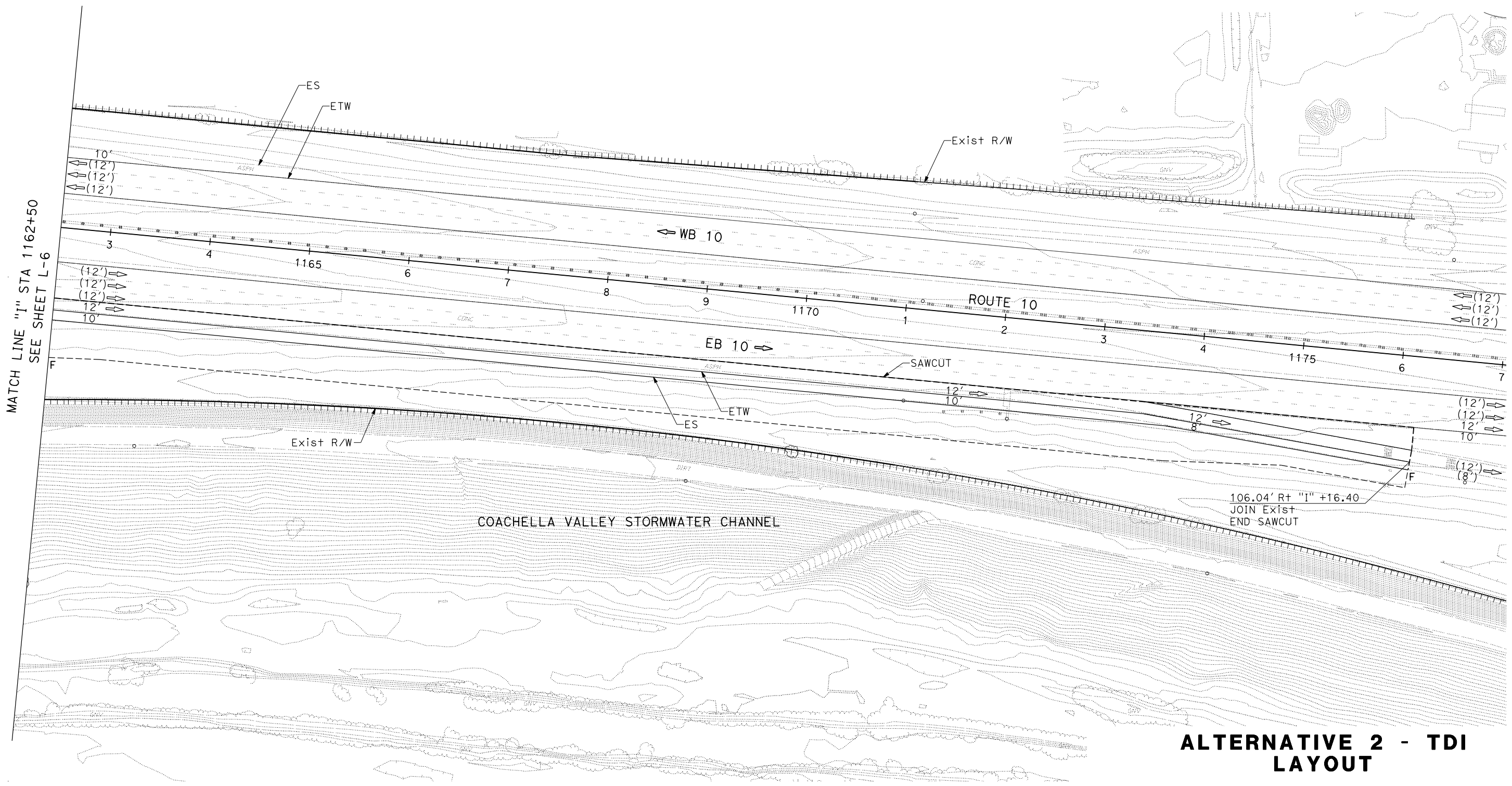
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
8	Riv	10	R53.9/R55.5		

REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
 No. _____
 Exp. _____
 CIVIL
 STATE OF CALIFORNIA

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

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Ettrans	CHECKED BY	DATE	DATE



ALTERNATIVE 2 - TDI LAYOUT

SCALE: 1" = 100'

L-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 CONSULTANT FUNCTIONAL SUPERVISOR
 CALCULATED-DESIGNED BY
 CHECKED BY
 REVISED BY
 DATE REVISED

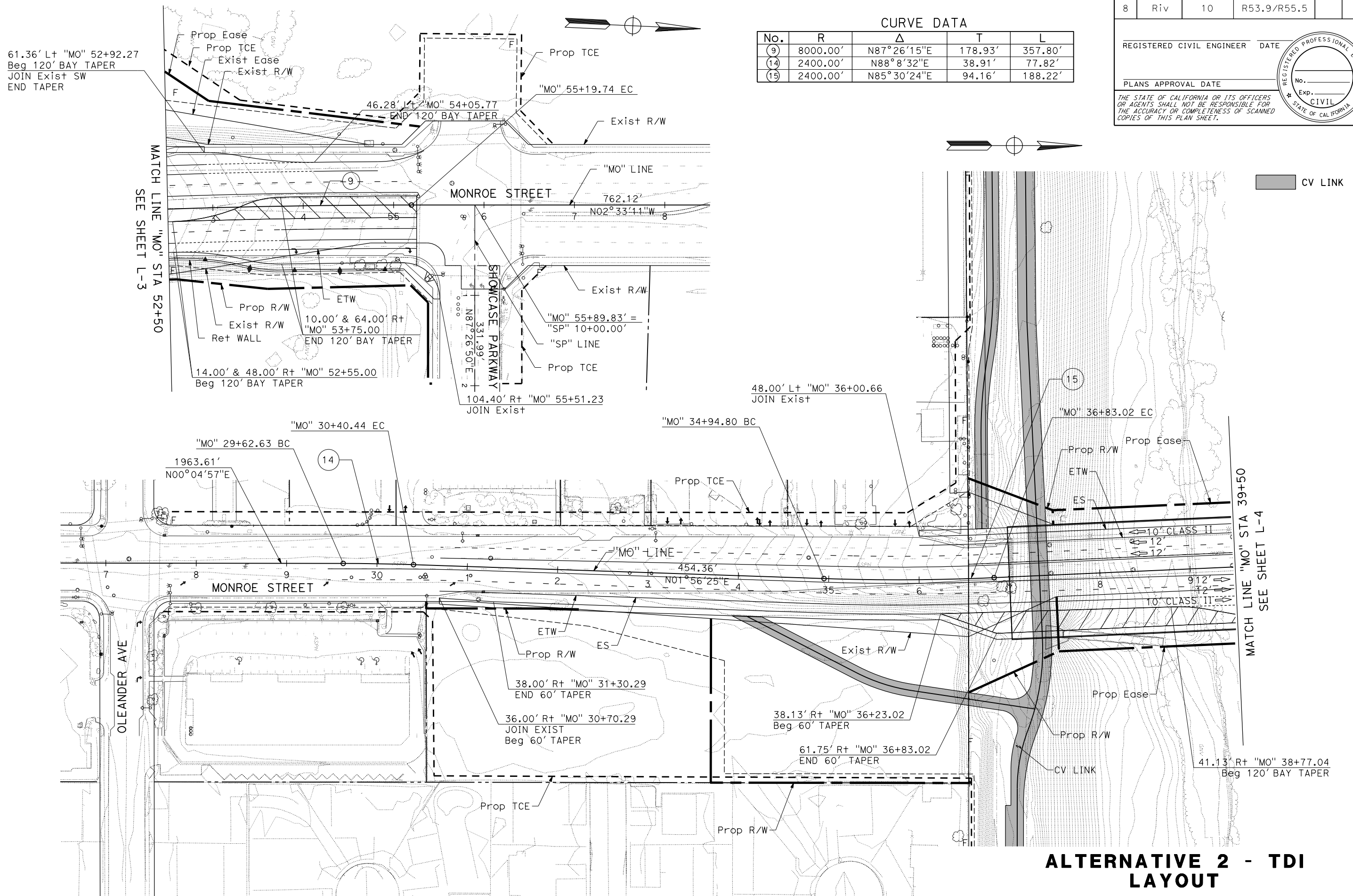
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
8	Riv	10	R53.9/R55.5		

REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL DATE	

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

CURVE DATA

No.	R	Δ	T	L
9	8000.00'	N87°26'15"E	178.93'	357.80'
14	2400.00'	N88°8'32"E	38.91'	77.82'
15	2400.00'	N85°30'24"E	94.16'	188.22'

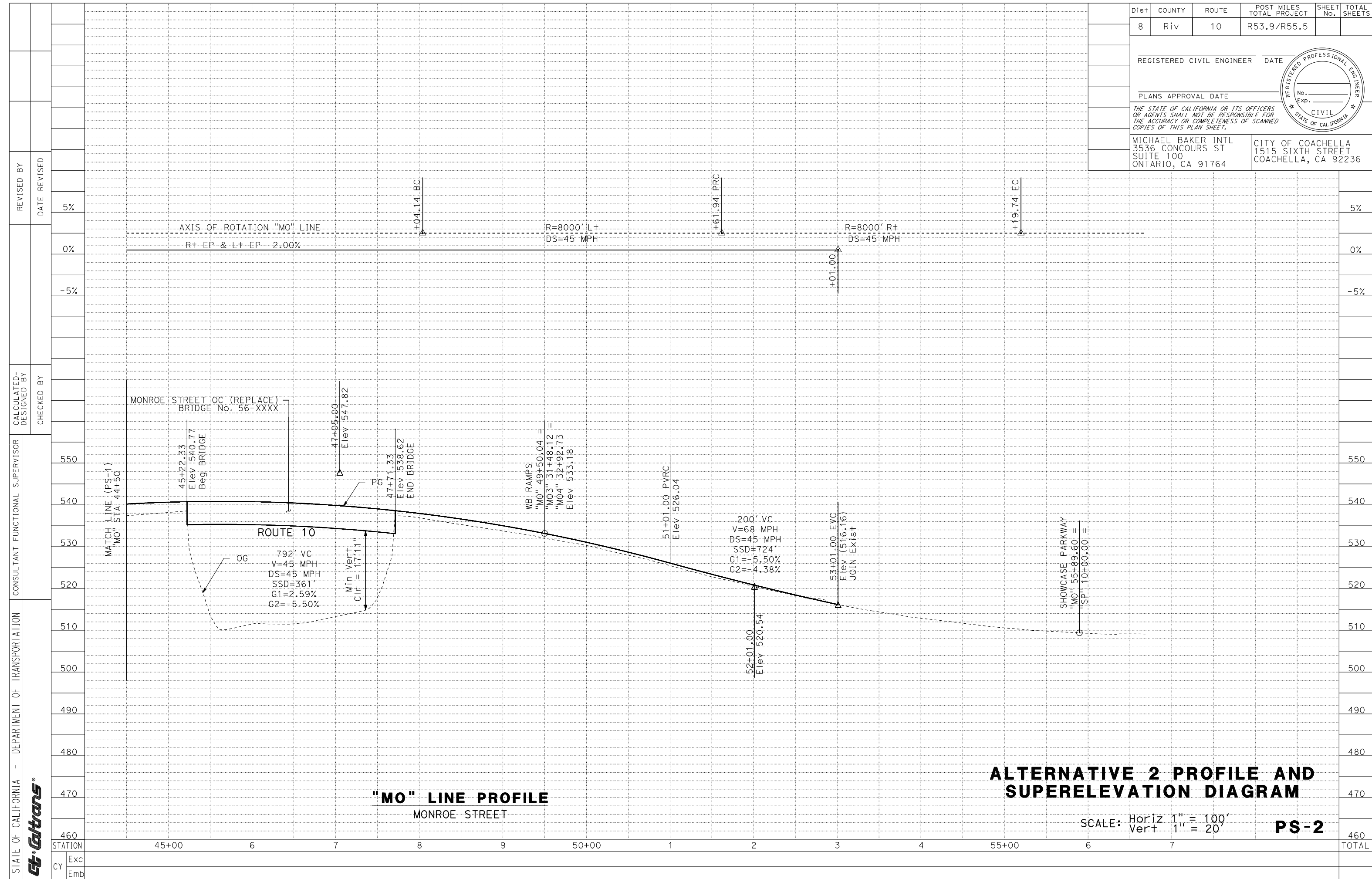
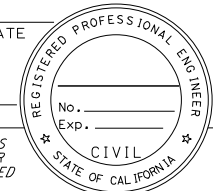


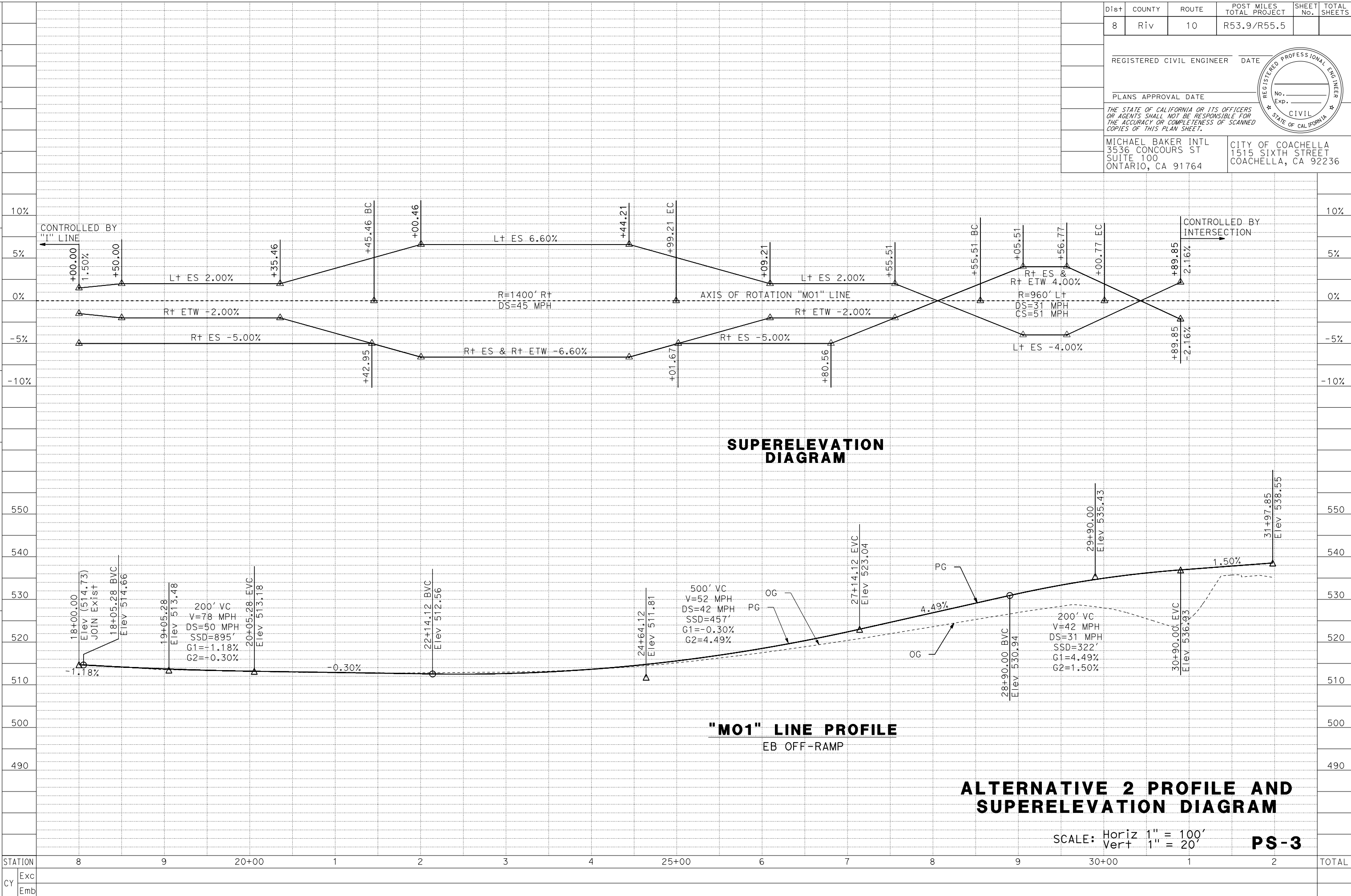
ALTERNATIVE 2 - TDI LAYOUT

SCALE: 1" = 100'

L-8

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
8	Riv	10	R53.9/R55.5		
REGISTERED CIVIL ENGINEER					DATE
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
MICHAEL BAKER INTL 3536 CONCOURS ST SUITE 100 ONTARIO, CA 91764			CITY OF COACHELLA 1515 SIXTH STREET COACHELLA, CA 92236		

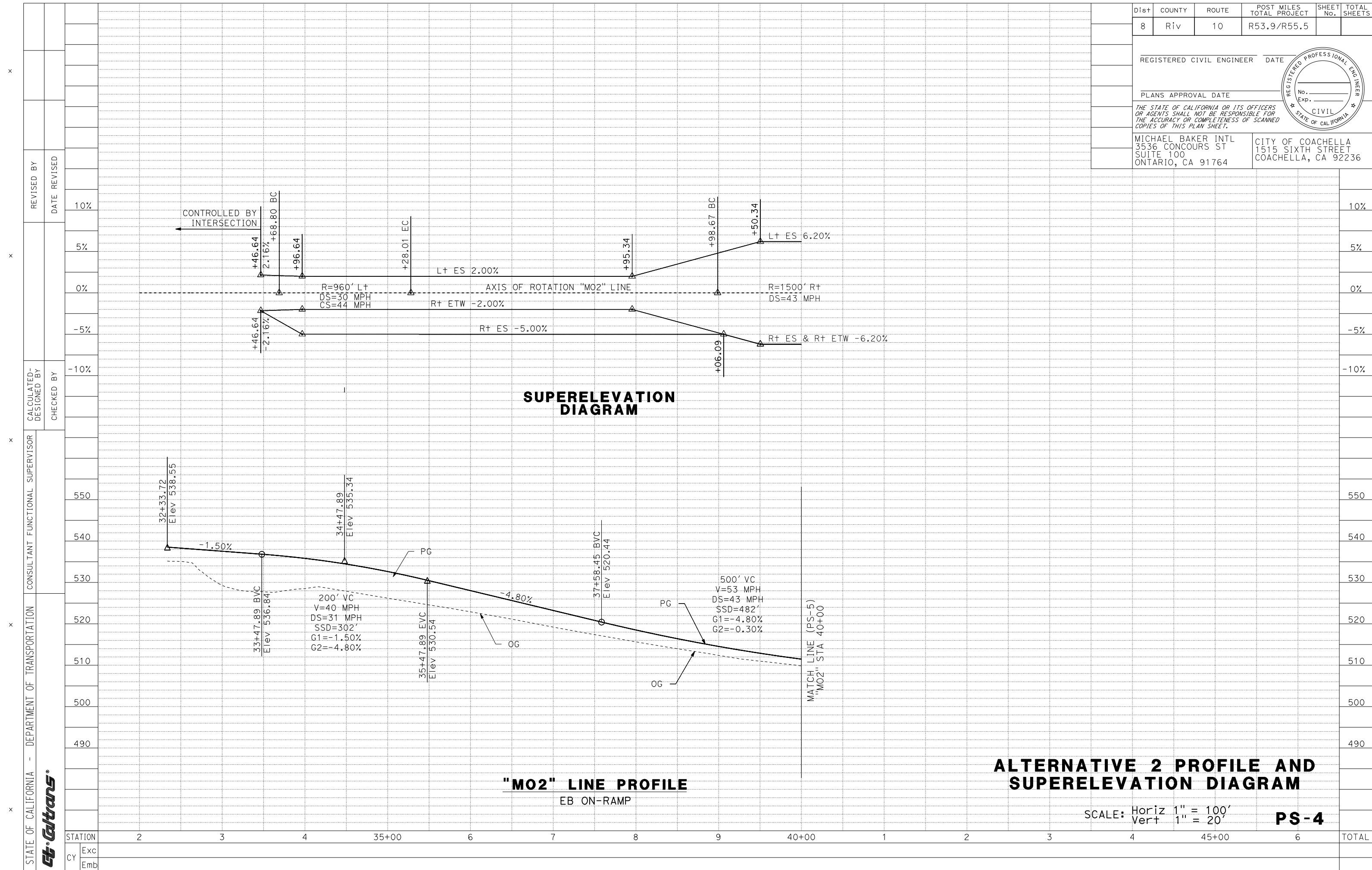
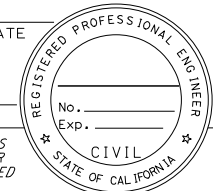




Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
8	Riv	10	R53.9/R55.5		
REGISTERED CIVIL ENGINEER DATE					
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
MICHAEL BAKER INTL 3536 CONCOURS ST SUITE 100 ONTARIO, CA 91764			CITY OF COACHELLA 1515 SIXTH STREET COACHELLA, CA 92236		



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
8	Riv	10	R53.9/R55.5		
REGISTERED CIVIL ENGINEER					DATE
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					
MICHAEL BAKER INTL 3536 CONCOURS ST SUITE 100 ONTARIO, CA 91764			CITY OF COACHELLA 1515 SIXTH STREET COACHELLA, CA 92236		

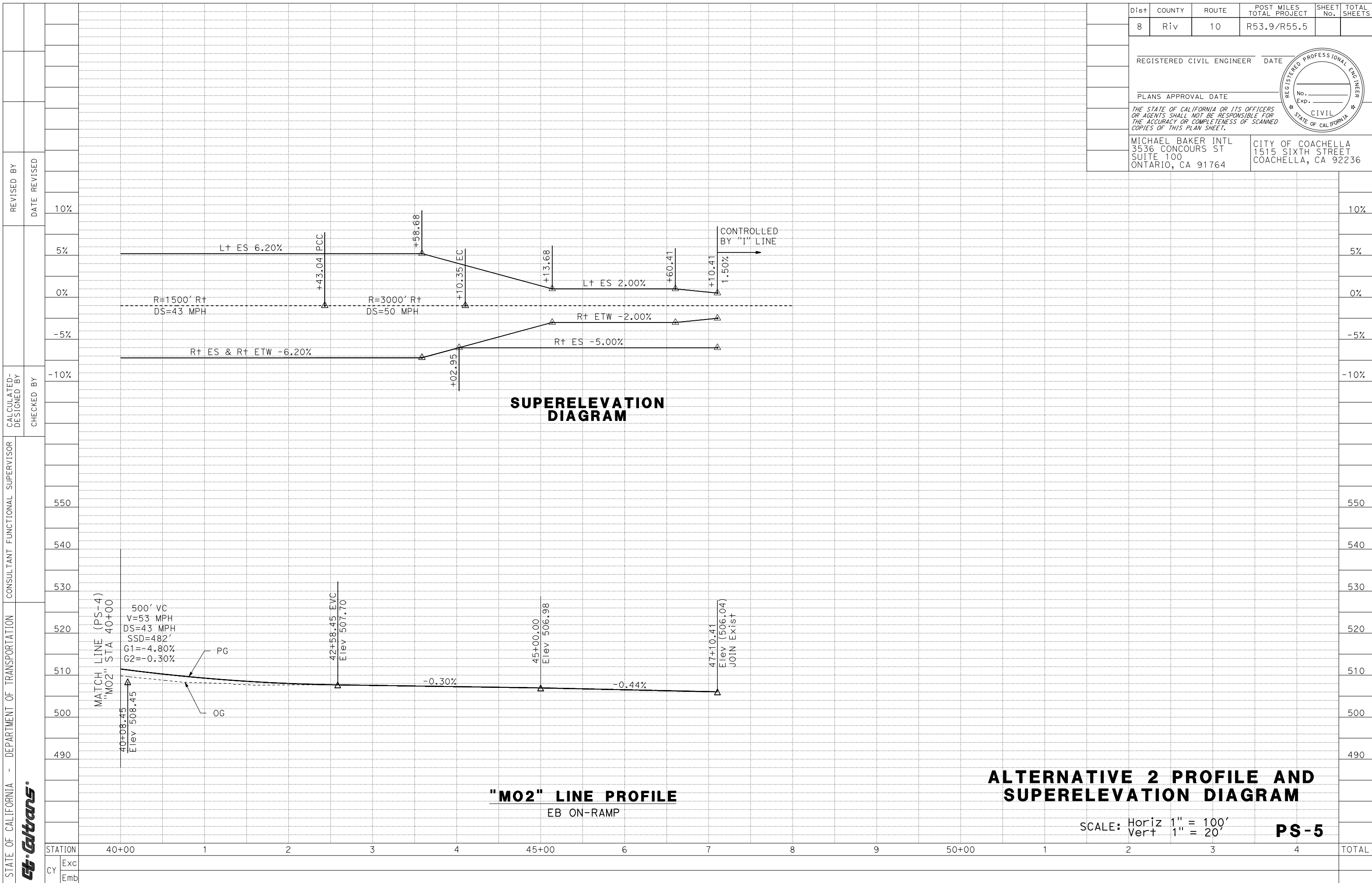
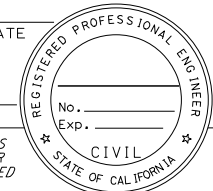


STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR BY
Exc		CHECKED BY	DATE REVISED
Emb			

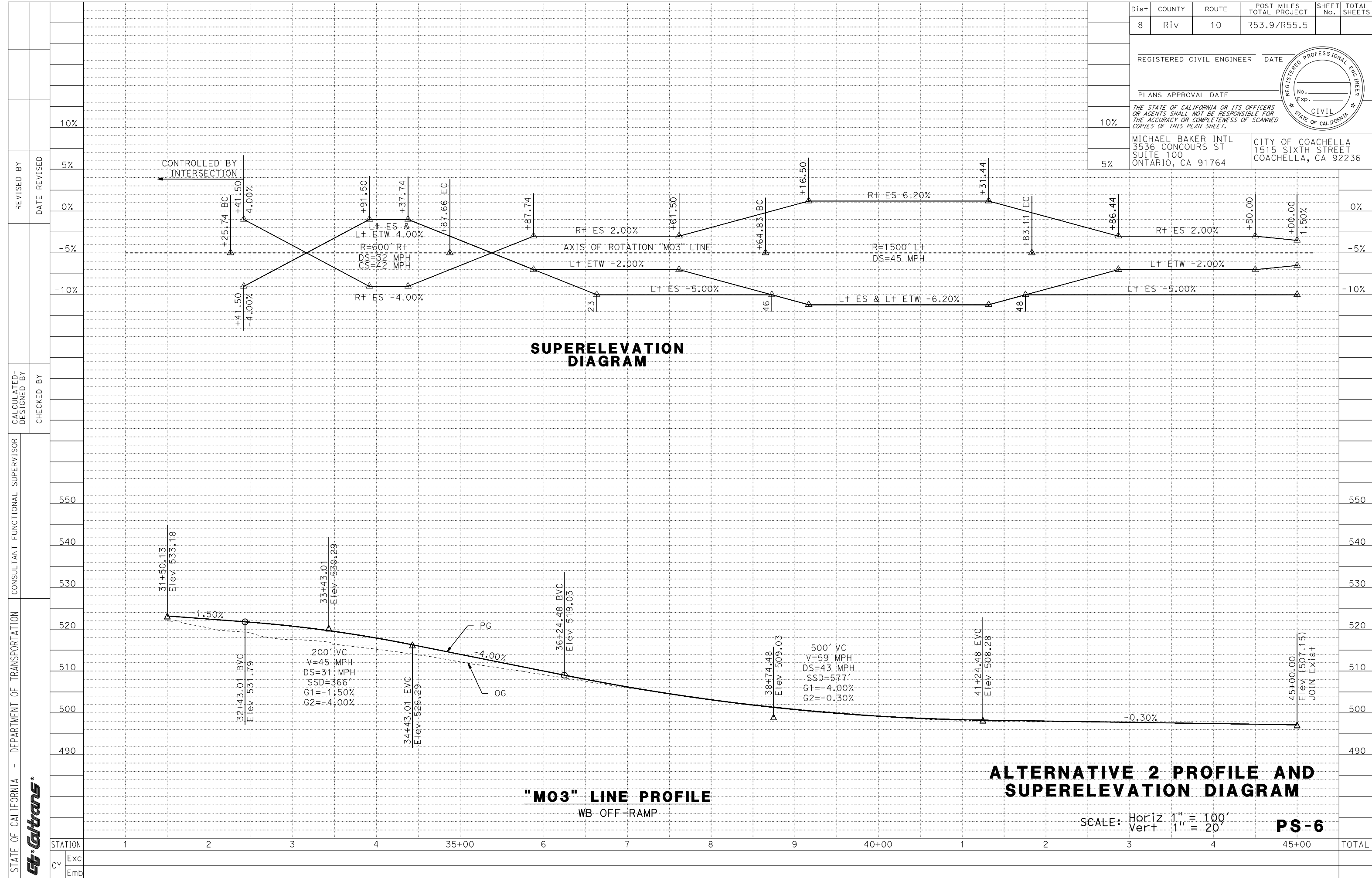
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CY																

LAST REVISION DATE PLOTTED => 05-FEB-2020
00-00-00 TIME PLOTTED => 13:05

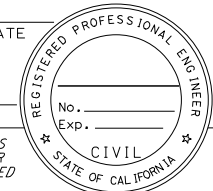
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
8	Riv	10	R53.9/R55.5		
REGISTERED CIVIL ENGINEER					DATE
PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					
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 00-00-00 TIME PLOTTED => 13:08



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
8	Riv	10	R53.9/R55.5		
REGISTERED CIVIL ENGINEER DATE					
PLANS APPROVAL DATE					
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	CHECKED BY	REVISOR	DATE
Exc					
Emb					

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
8	Riv	10	R53.9/R55.5		
REGISTERED CIVIL ENGINEER					DATE
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