

Geometric Drawings
Alternative 4
Attachment D

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:

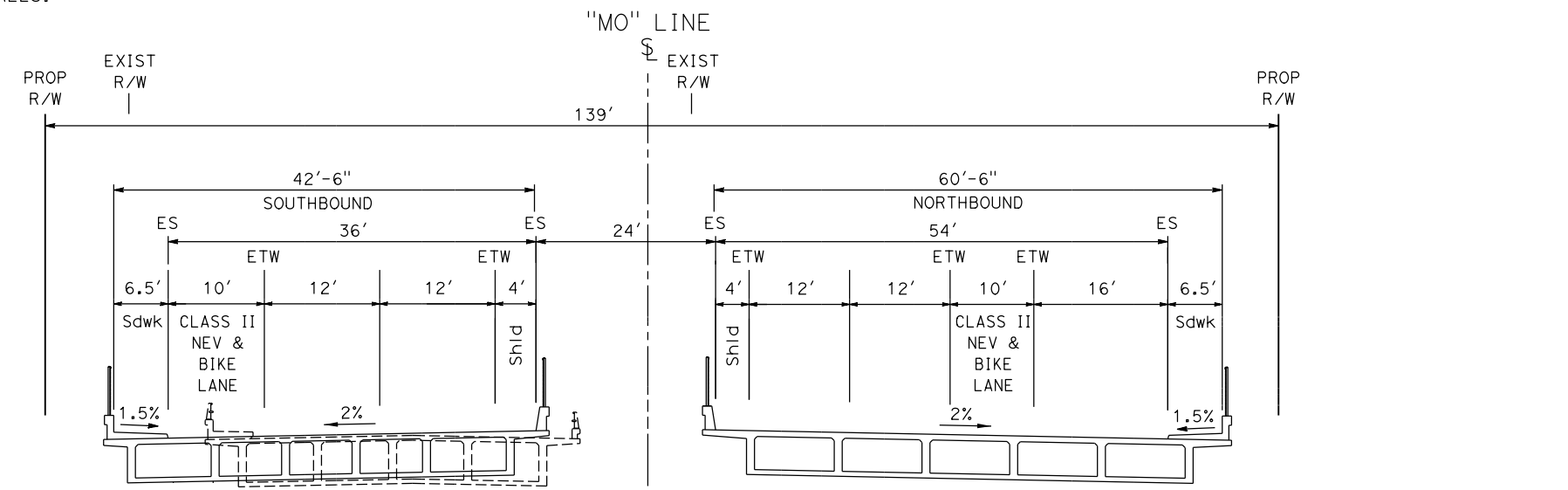
- DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- SLOPE ROUNDING IS REQUIRED AT ALL TOP OF SLOPE AND TOE OF SLOPE LOCATIONS.
- CURB AND GUTTER, SIDEWALK, AND CURB DETAILS WILL BE DETERMINED IN THE FINAL DESIGN PHASE AND 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.

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

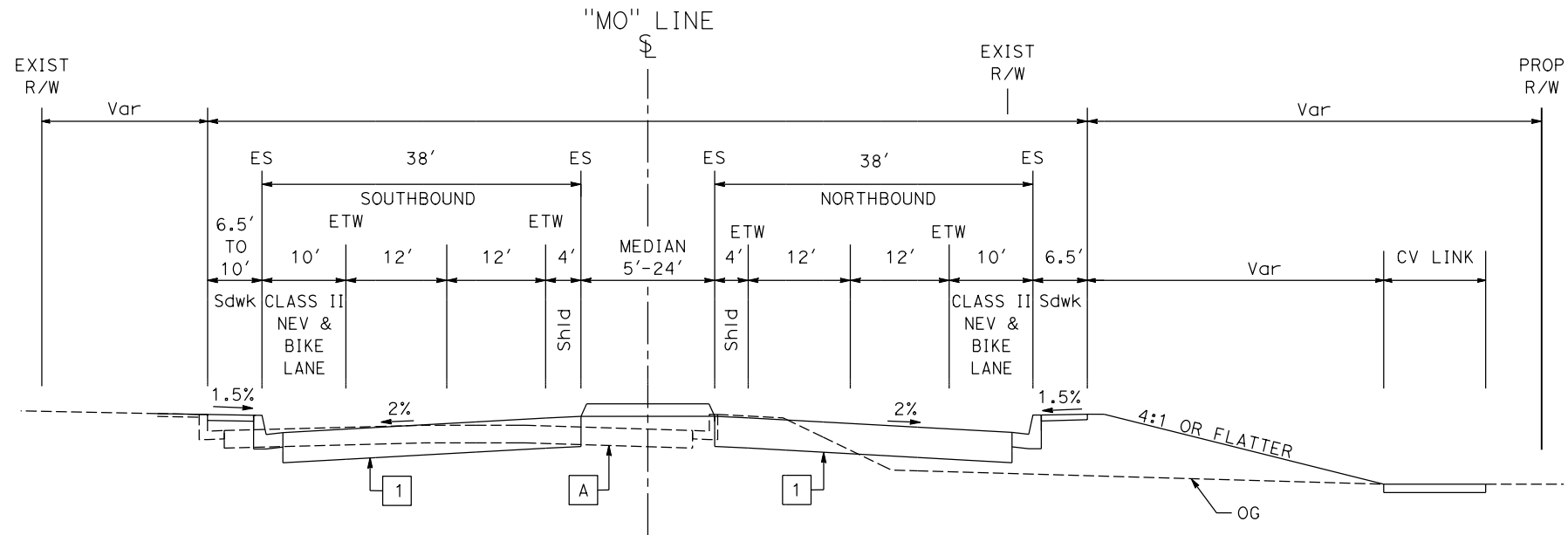
DESIGN DESIGNATION (MONROE ST)

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



MONROE STREET CHANNEL BRIDGE

"MO" Sta 37+00.00 TO 42+00.00



MONROE STREET

"MO" Sta 30+75.00 TO 37+00.00

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

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)

PAVEMENT CLIMATE REGION

DESERT

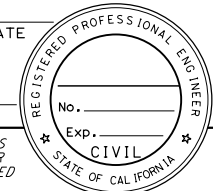
**ALTERNATIVE 4
TYPICAL CROSS SECTIONS**

NO SCALE

X-1

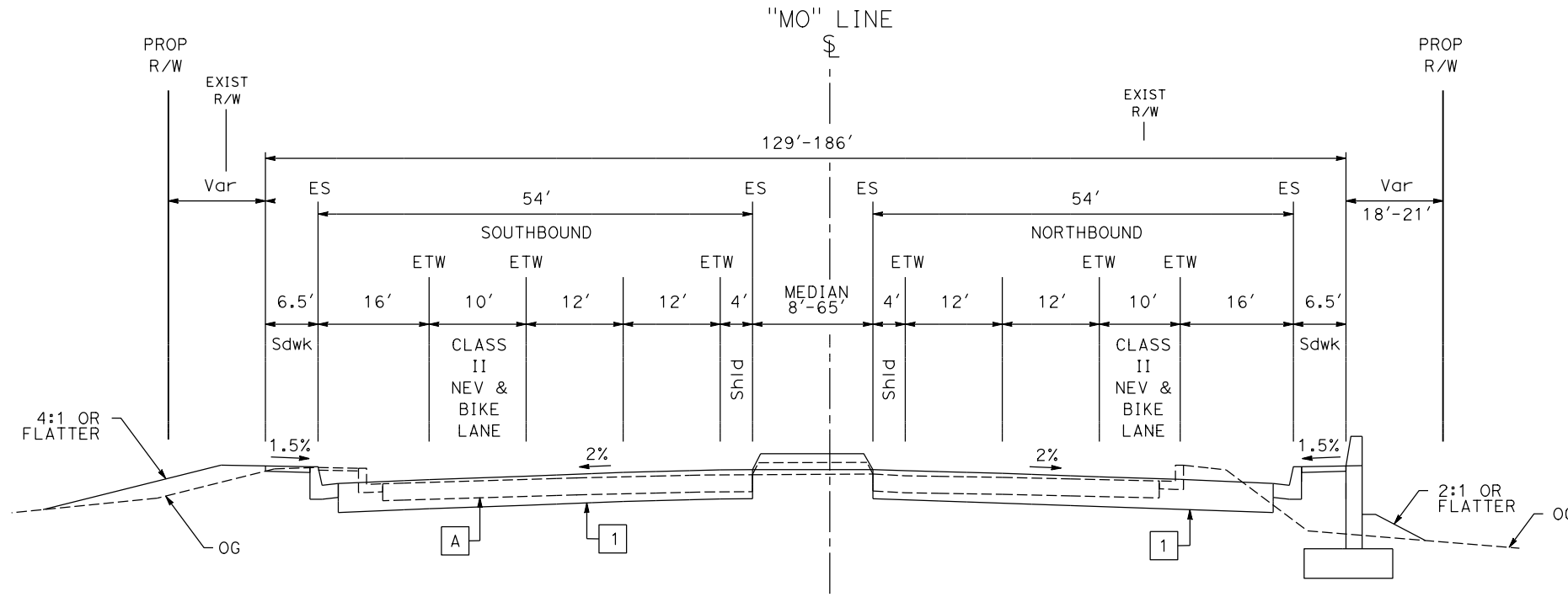
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CONSULTANT - FUNCTIONAL SUPERVISOR
 CALCULATED - DESIGNED BY
 CHECKED BY
 REVISED BY
 DATE REVISED
 USERNAME => Steven.Alvarez
 DGN FILE => 163333-A1+4_X-1.dgn
 BORDER LAST REVISED 7/2/2010
 RELATIVE BORDER SCALE IS IN INCHES
 0 1 2 3
 UNIT
 PROJECT NUMBER & PHASE

LAST REVISION DATE PLOTTED => 01-09-2020
 00-00-00 TIME PLOTTED => 08:49

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>					

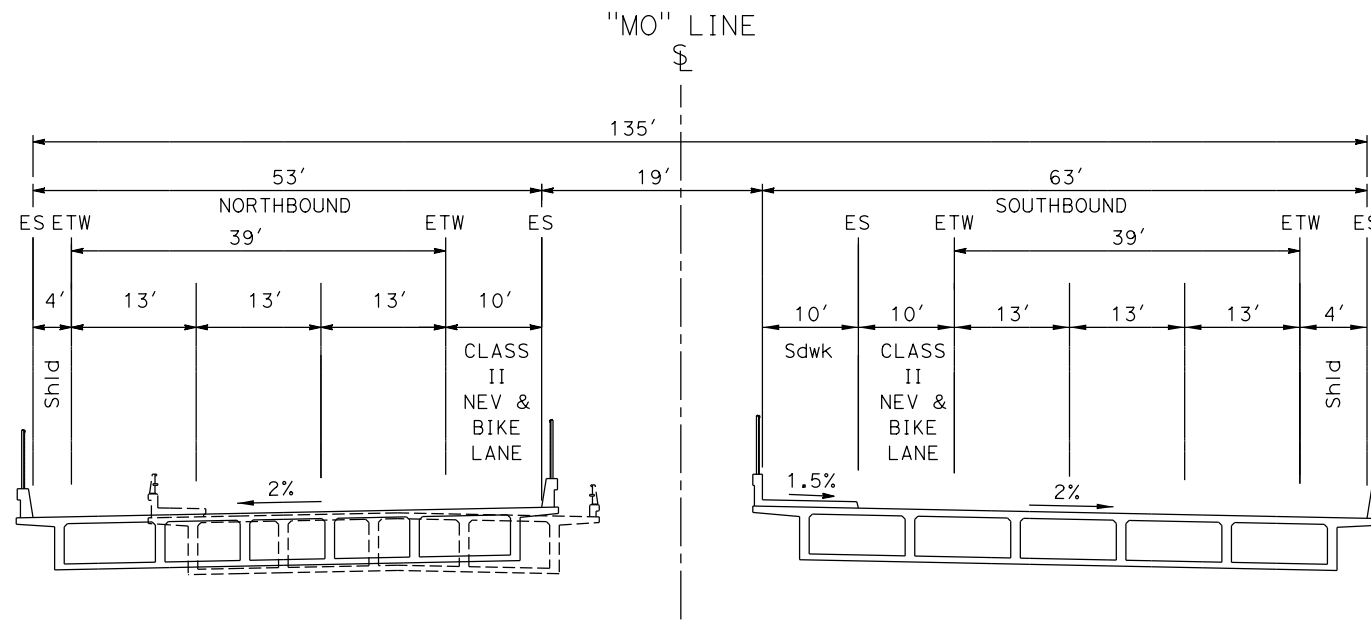
NOTES:

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MONROE STREET

"MO" Sta 52+00.00 TO 55+00.00



MONROE STREET OVERCROSSING (I-10)

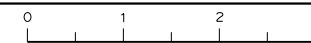
"MO" Sta 45+20.00 TO 47+70.00

**ALTERNATIVE 4
TYPICAL CROSS SECTIONS**

NO SCALE

X-2

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



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

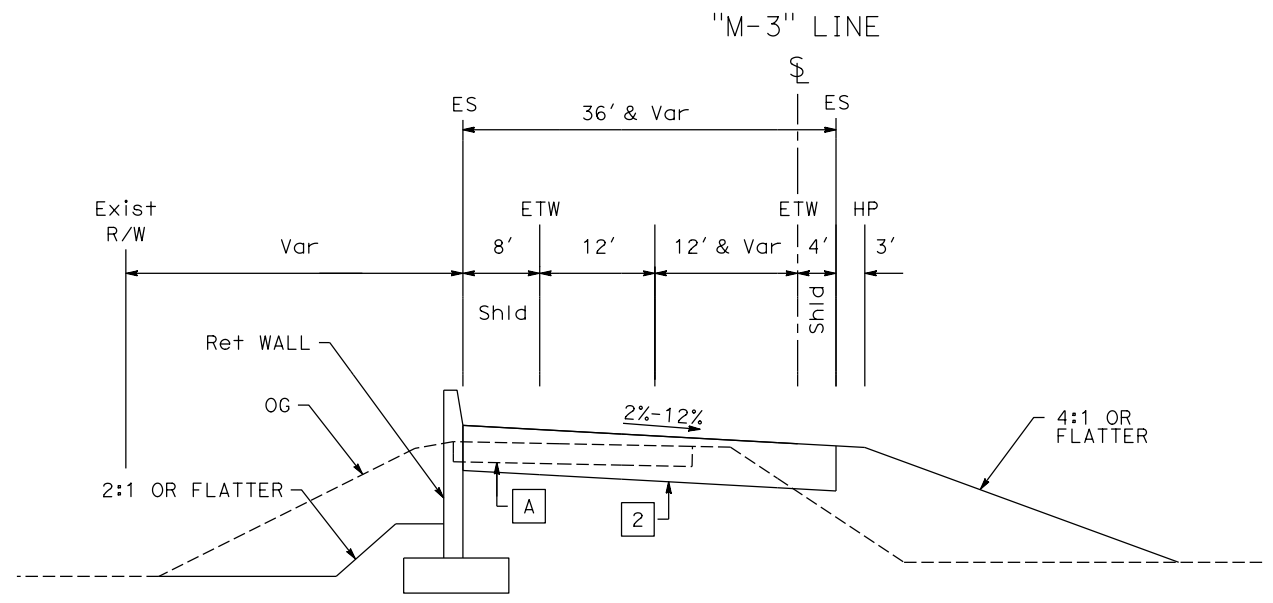


REGISTERED CIVIL ENGINEER DATE _____
 PLANS APPROVAL DATE _____
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

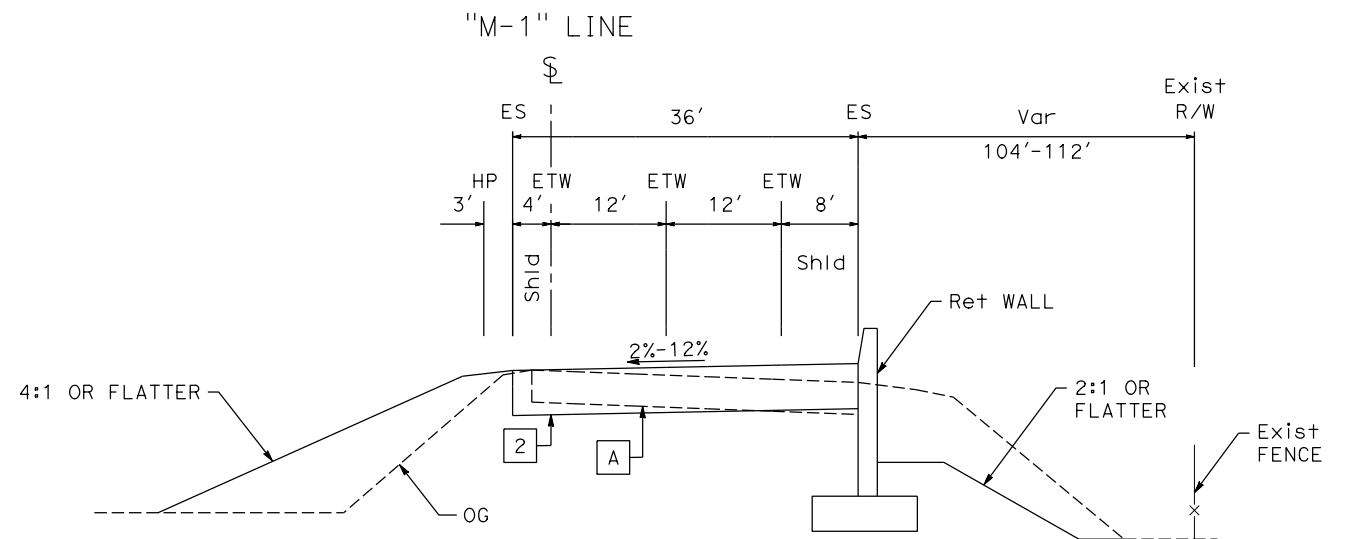
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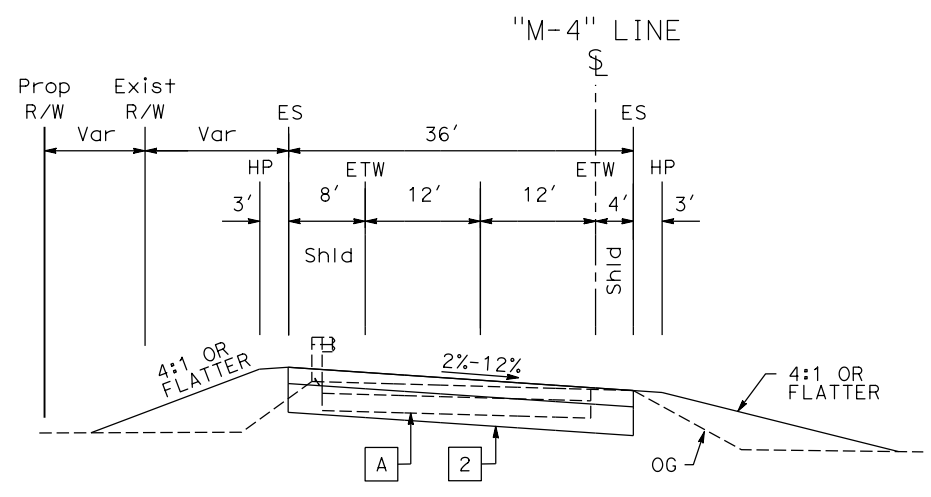
REVISOR: _____ DATE: _____
 CALCULATED/DESIGNED BY: _____ CHECKED BY: _____
 CONSULTANT FUNCTIONAL SUPERVISOR: _____
 DEPARTMENT OF TRANSPORTATION - CALTRANS
 STATE OF CALIFORNIA



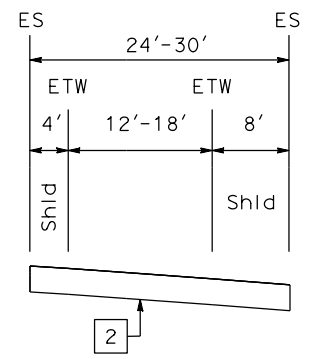
WB OFF-RAMP
Sta 35+00.00 TO 37+49.00



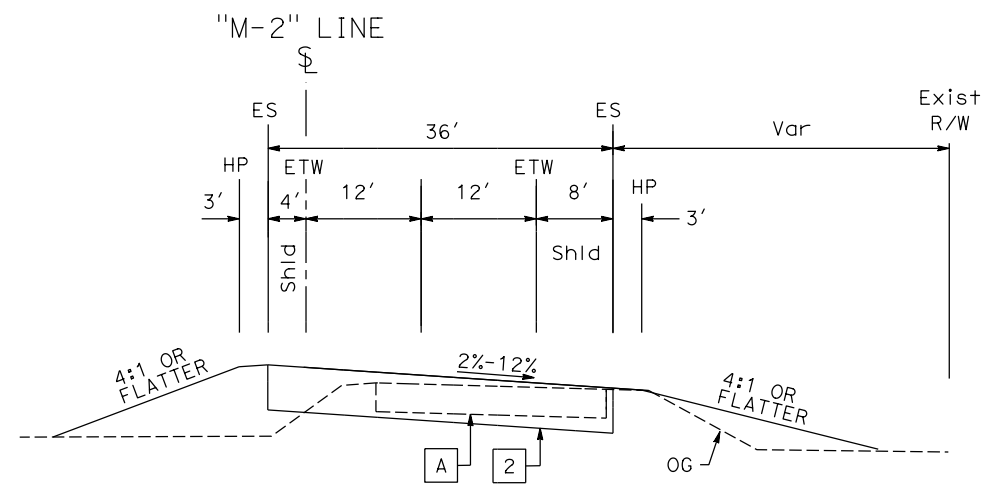
EB OFF-RAMP
Sta 26+19.00 TO 28+90.00



WB ON-RAMP
Sta 25+60.00 TO 29+00.00



DDI TURN MOVEMENT
M-1R, M2-R, M-3L, M-4L



EB ON-RAMP
Sta 35+00.00 TO 40+00.00

**ALTERNATIVE 4
TYPICAL CROSS SECTIONS**

NO SCALE

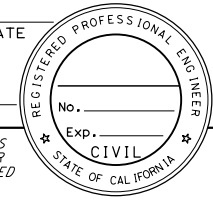
X-3

LAST REVISION: _____ DATE PLOTTED => 30-SEP-2020
 00-00-00 TIME PLOTTED => 13:46

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

REGISTERED CIVIL ENGINEER DATE

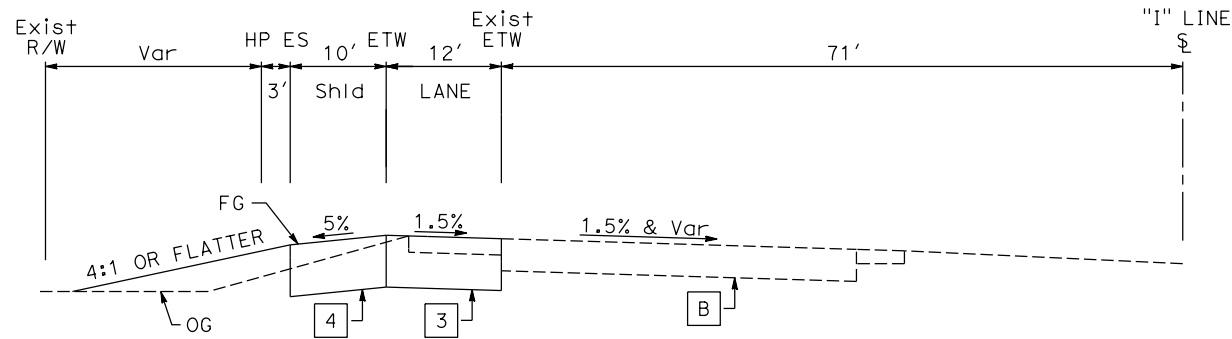
PLANS APPROVAL DATE



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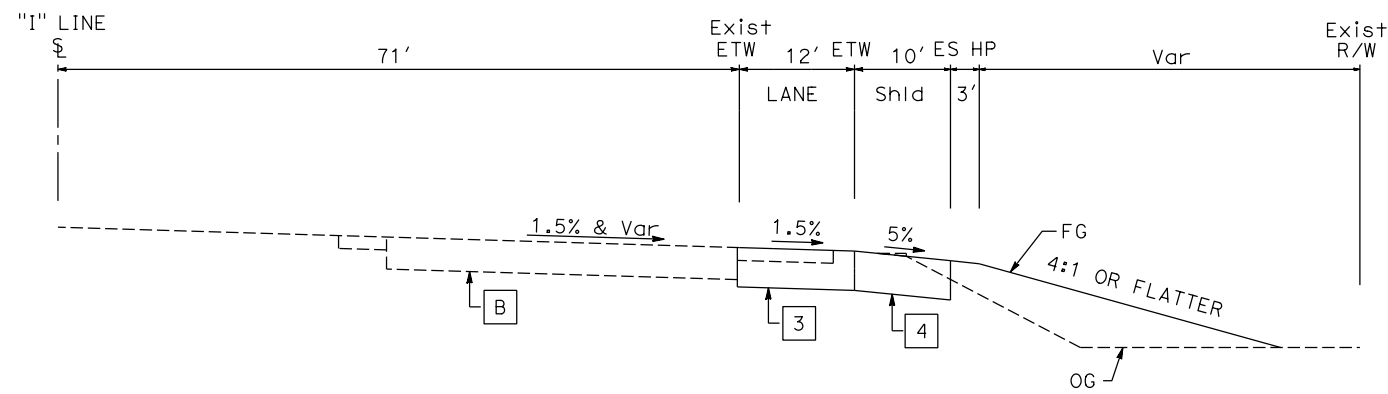
NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
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ROUTE 10 - WESTBOUND

WESTBOUND ACCELERATION / DECELERATION LANE
Sta 1108+90.74 TO 1119+01.42
Sta 1145+00.00 TO 1158+00.73



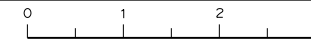
ROUTE 10 - EASTBOUND

EASTBOUND AUXILIARY LANE / DECELERATION LANE
Sta 1112+05.92 TO 1118+00.00
Sta 1147+00.00 TO 1173+47.51

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CHECKED BY

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans



**ALTERNATIVE 4
TYPICAL CROSS SECTIONS**

NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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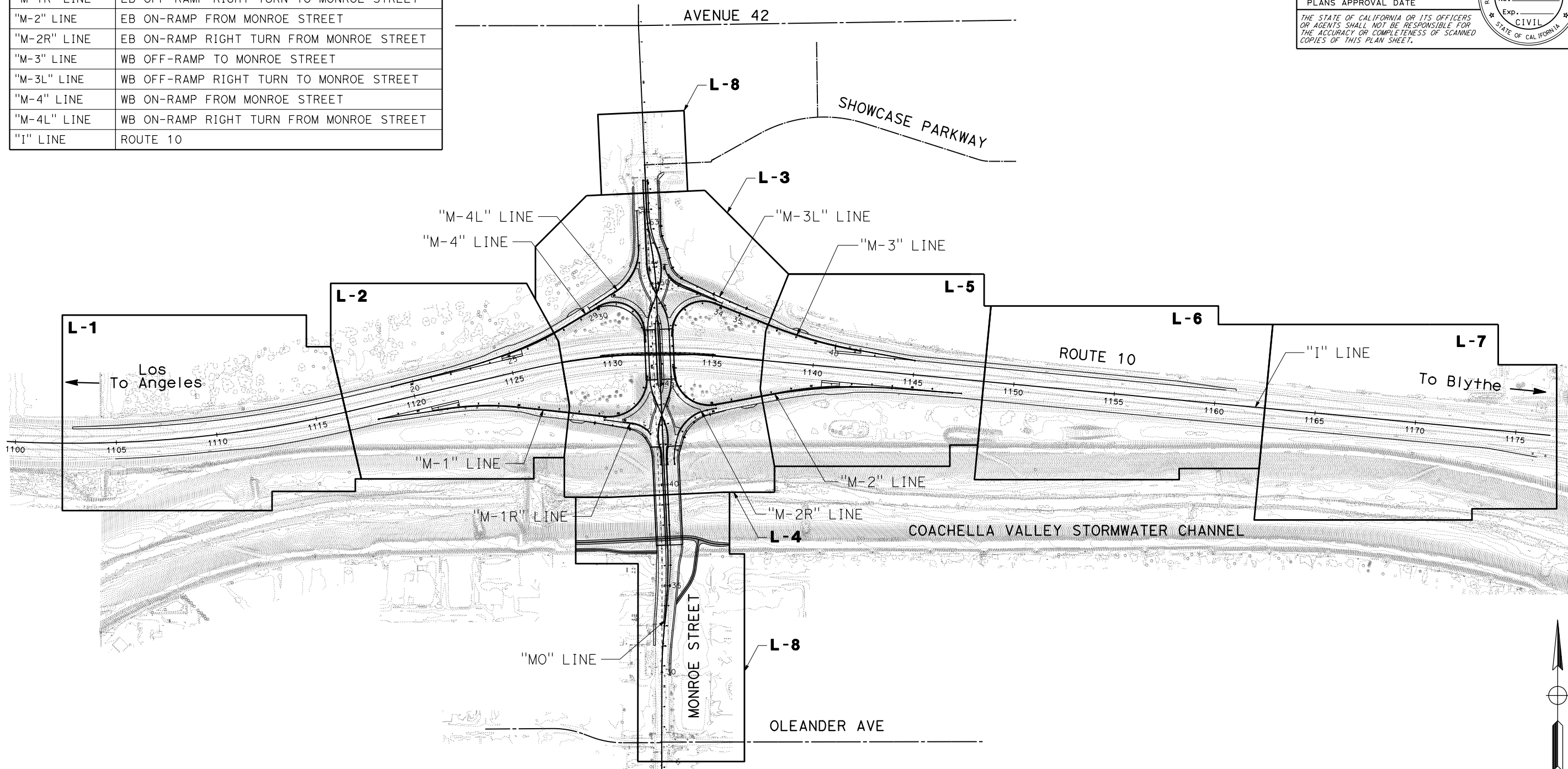
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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LINE INDEX

LINE NAME	LINE DESCRIPTION
"MO" LINE	MONROE STREET
"M-1" LINE	EB OFF-RAMP TO MONROE STREET
"M-1R" LINE	EB OFF-RAMP RIGHT TURN TO MONROE STREET
"M-2" LINE	EB ON-RAMP FROM MONROE STREET
"M-2R" LINE	EB ON-RAMP RIGHT TURN FROM MONROE STREET
"M-3" LINE	WB OFF-RAMP TO MONROE STREET
"M-3L" LINE	WB OFF-RAMP RIGHT TURN TO MONROE STREET
"M-4" LINE	WB ON-RAMP FROM MONROE STREET
"M-4L" LINE	WB ON-RAMP RIGHT TURN FROM MONROE STREET
"I" LINE	ROUTE 10



**ALTERNATIVE 4 - DDI
KEY MAP AND LINE INDEX**

NO SCALE

K-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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CHECKED BY: []

DESIGNED BY: []

CONSULTANT FUNCTIONAL SUPERVISOR: []

DESIGNED BY: []

CONSULTANT FUNCTIONAL SUPERVISOR: []

DESIGNED BY: []

CONSULTANT FUNCTIONAL SUPERVISOR: []



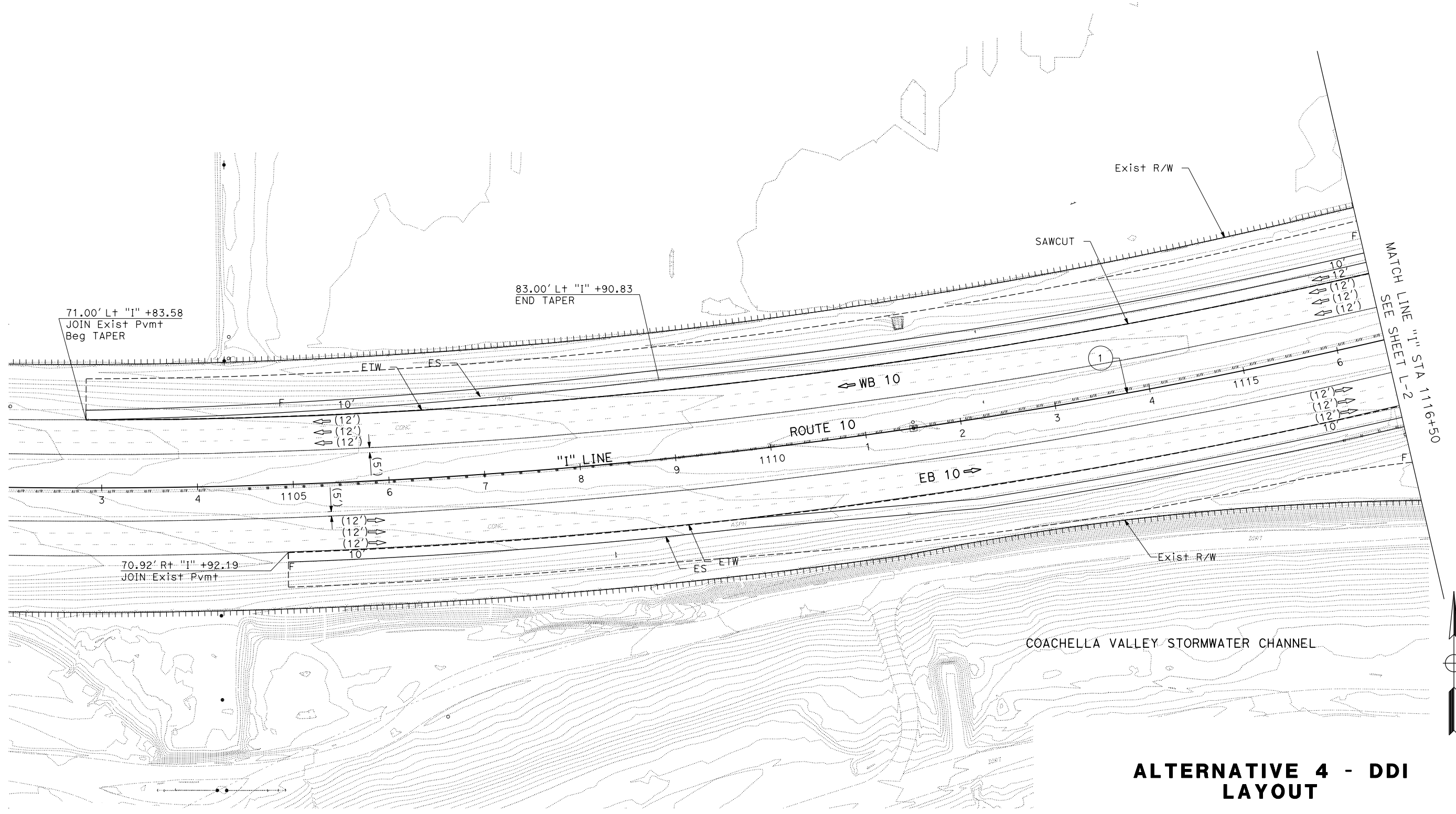
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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PLANS APPROVAL DATE	

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No.	R	Δ	T	L
(1)	6000.03'	N45°54'33"E	2429.70'	4617.20'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
St. Gibbons
 CONSULTANT FUNCTIONAL SUPERVISOR
 CALCULATED-DESIGNED BY
 CHECKED BY
 REVISOR BY
 DATE REVISOR



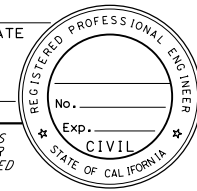
ALTERNATIVE 4 - DDI LAYOUT

SCALE: 1" = 100'

L-1

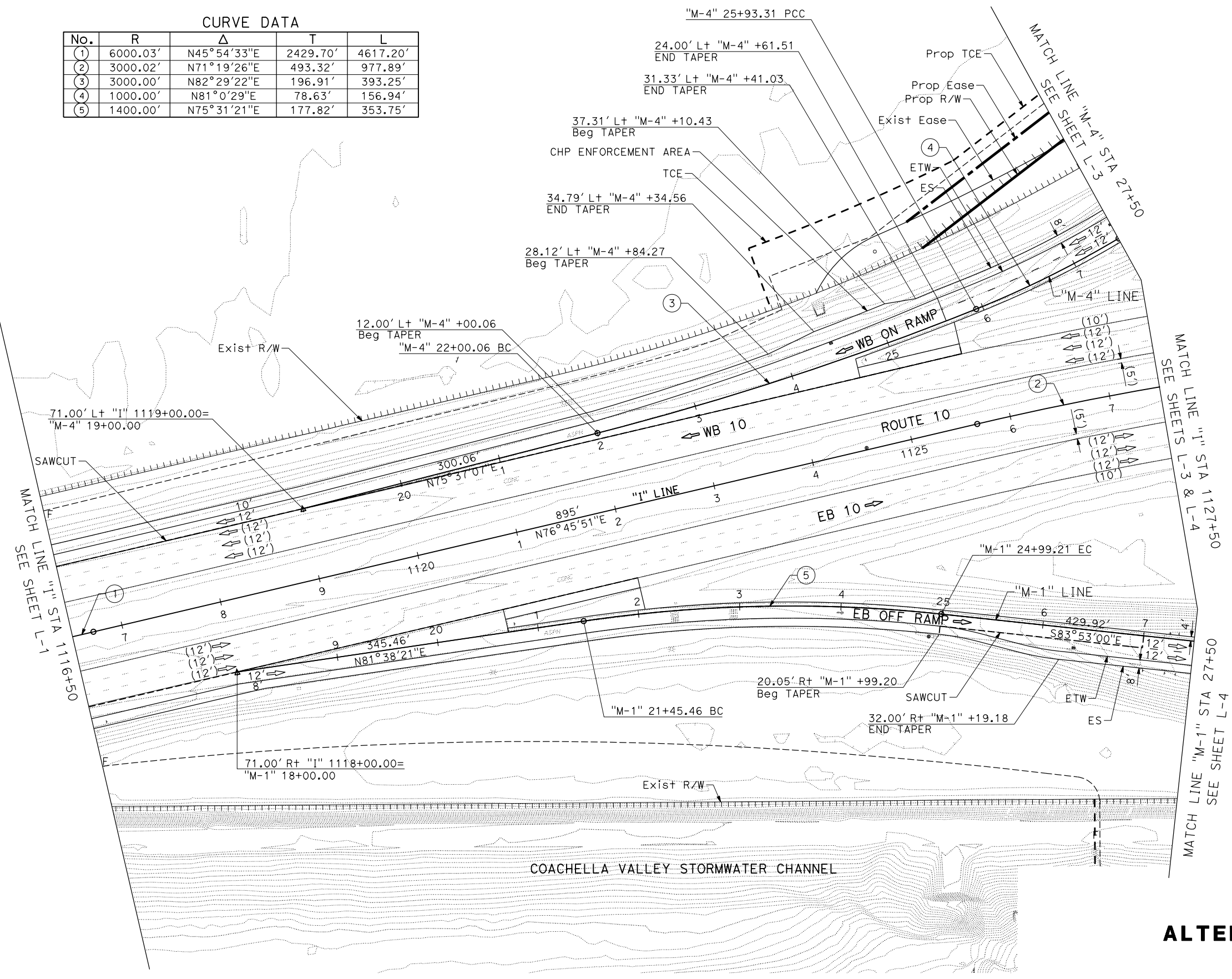
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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No.	R	Δ	T	L
①	6000.03'	N45°54'33"E	2429.70'	4617.20'
②	3000.02'	N71°19'26"E	493.32'	977.89'
③	3000.00'	N82°29'22"E	196.91'	393.25'
④	1000.00'	N81°0'29"E	78.63'	156.94'
⑤	1400.00'	N75°31'21"E	177.82'	353.75'

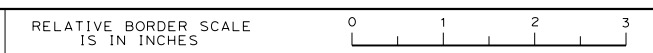


ALTERNATIVE 4 - DDI LAYOUT

SCALE: 1" = 100'

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

USERNAME => Alejandro.Tapia
 DGN FILE => 163333-A1+4_Layout-02.dgn



UNIT PROJECT NUMBER & PHASE

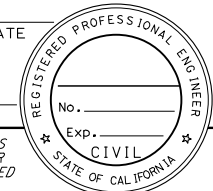
LAST REVISION: DATE PLOTTED => 08-OCT-2019
 00-00-00 TIME PLOTTED => 14:30

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

REGISTERED CIVIL ENGINEER DATE _____

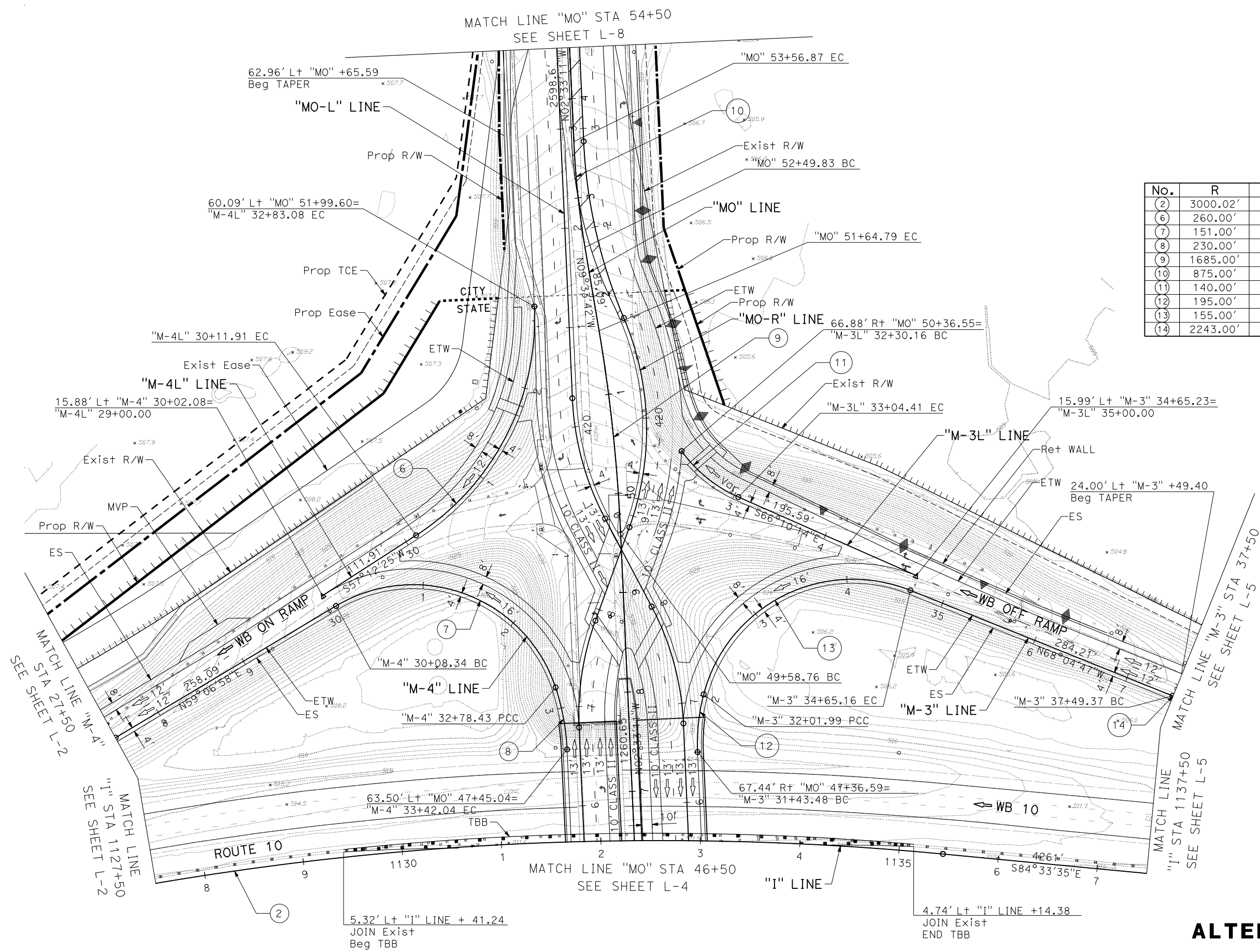
PLANS APPROVAL DATE _____

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CURVE DATA


No.	R	Δ	T	L
(2)	3000.02'	N74°50'5"E	399.36'	794.05'
(6)	260.00'	N30°14'34"E	149.38'	271.17'
(7)	151.00'	N12°29'5"W	188.09'	270.09'
(8)	230.00'	N74°9'14"E	32.01'	63.61'
(9)	1685.00'	N82°59'29"E	103.19'	206.11'
(10)	875.00'	N82°59'29"E	53.58'	107.03'
(11)	140.00'	N59°36'42"E	38.02'	74.25'
(12)	195.00'	N72°48'33"E	29.47'	58.51'
(13)	155.00'	N7°16'58"W	176.07'	263.17'
(14)	2243.00'	N78°23'14"E	228.09'	454.62'



ALTERNATIVE 4 - DDI LAYOUT

SCALE: 1" = 100'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

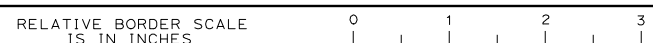


REVISOR: _____ DATE: _____

CALCULATED/DESIGNED BY: _____ CHECKED BY: _____

CONSULTANT FUNCTIONAL SUPERVISOR: _____

USERNAME => Jerusalem.Verano
DGN FILE => 163333-A1+4_Layout-03.dgn



UNIT: _____ PROJECT NUMBER & PHASE: _____

LAST REVISION: DATE PLOTTED => 26-FEB-2020
00-00-00 TIME PLOTTED => 14:46

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

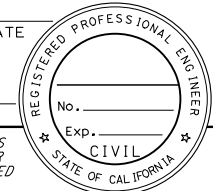
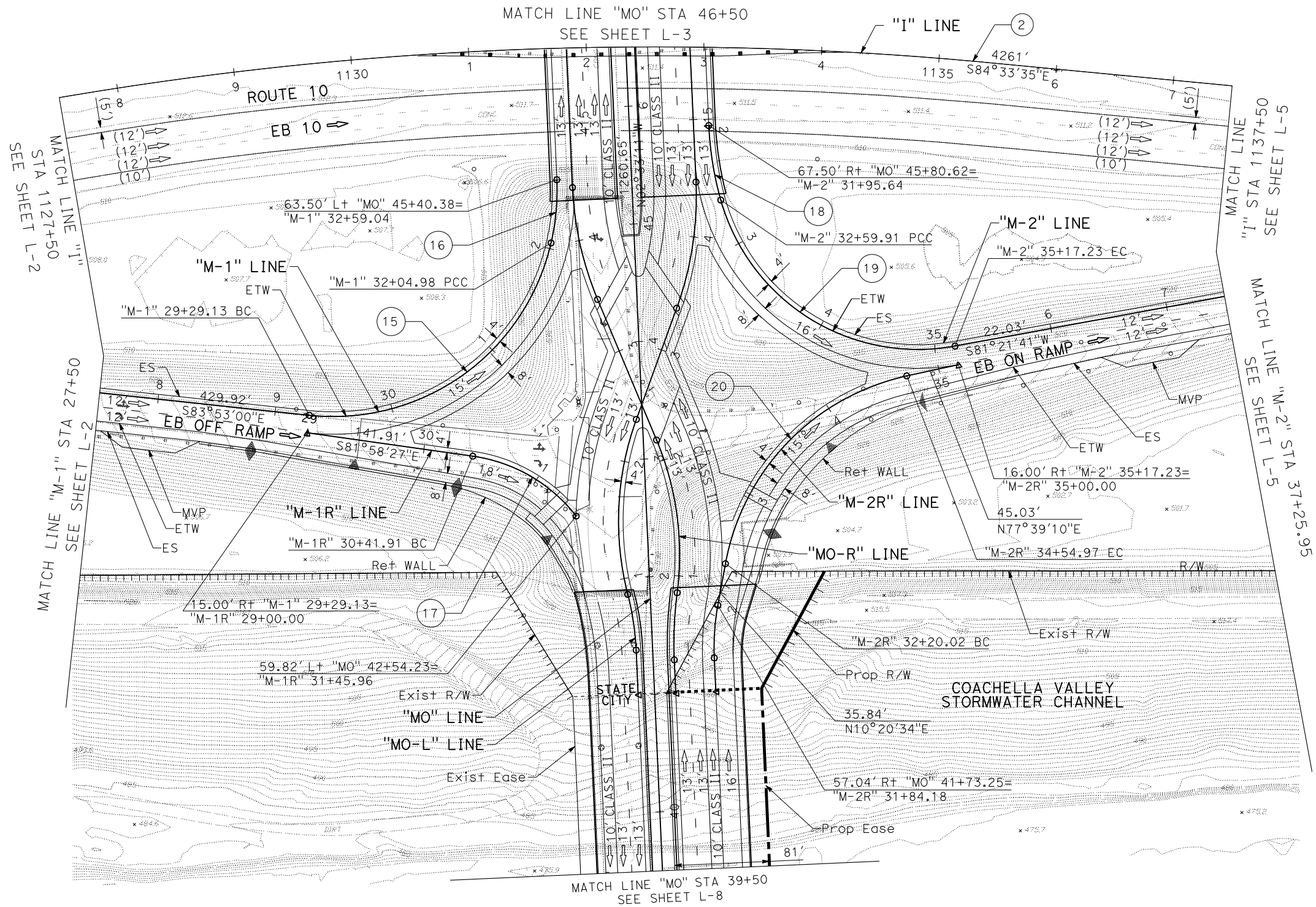
No.	R	Δ	T	L
(2)	3000.02'	N74°50'5"E	399.36'	794.05'
(15)	190.00'	N6°48'58"E	168.64'	275.85'
(16)	200.00'	N74°30'51"E	27.19'	54.06'
(17)	135.00'	N45°50'30"E	54.76'	104.05'
(18)	280.00'	N76°50'53"E	32.28'	64.27'
(19)	174.00'	N5°16'2"E	158.70'	257.32'
(20)	200.00'	N22°41'24"E	133.16'	234.96'

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ALTERNATIVE 4 - DDI LAYOUT

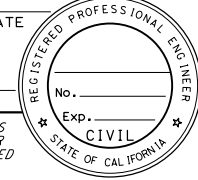
SCALE: 1" = 100'

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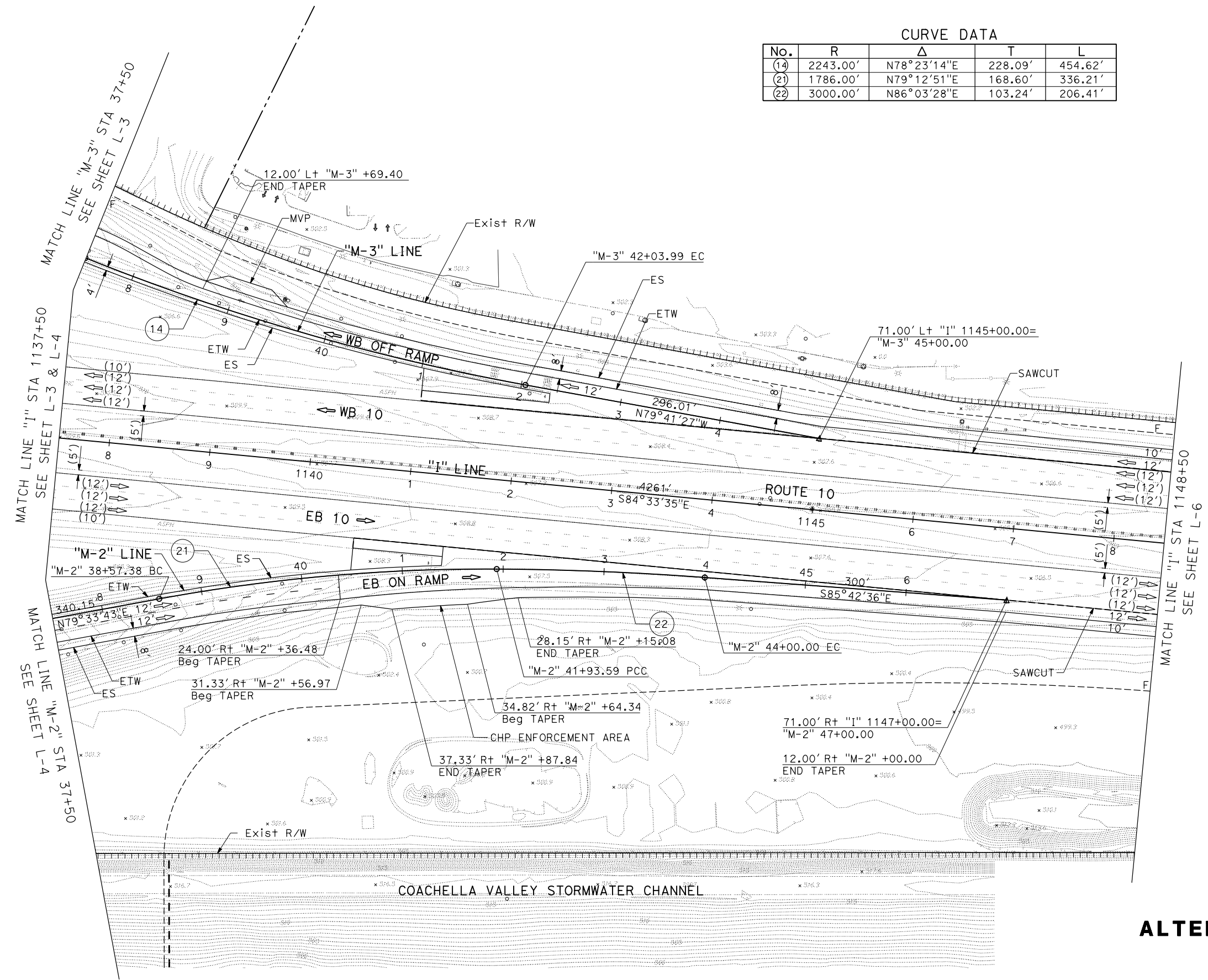
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CURVE DATA

No.	R	Δ	T	L
(14)	2243.00'	N78°23'14"E	228.09'	454.62'
(21)	1786.00'	N79°12'51"E	168.60'	336.21'
(22)	3000.00'	N86°03'28"E	103.24'	206.41'



ALTERNATIVE 4 - DDI LAYOUT

SCALE: 1" = 100'

L-5

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

BORDER LAST REVISED 7/2/2010

USERNAME => Alejandro.Tapia
 DGN FILE => 163333-A1+4_Layout-05.dgn

RELATIVE BORDER SCALE 15 IN INCHES



UNIT

PROJECT NUMBER & PHASE

LAST REVISION: DATE PLOTTED => 08-OCT-2019
 00-00-00 TIME PLOTTED => 14:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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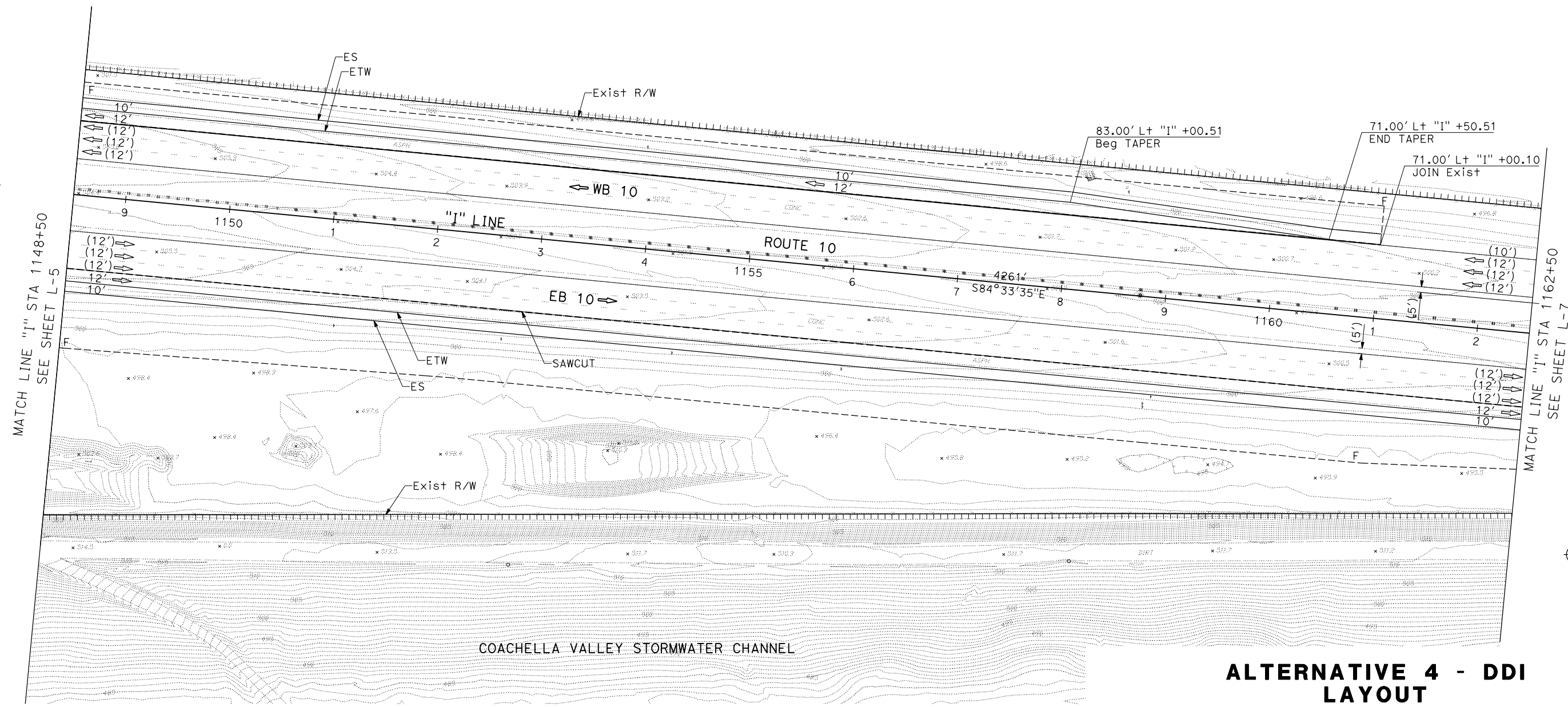
REGISTERED CIVIL ENGINEER DATE

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 CHECKED BY
 REVISED BY
 DATE REVISED



ALTERNATIVE 4 - DDI LAYOUT

SCALE: 1" = 100'

L-6

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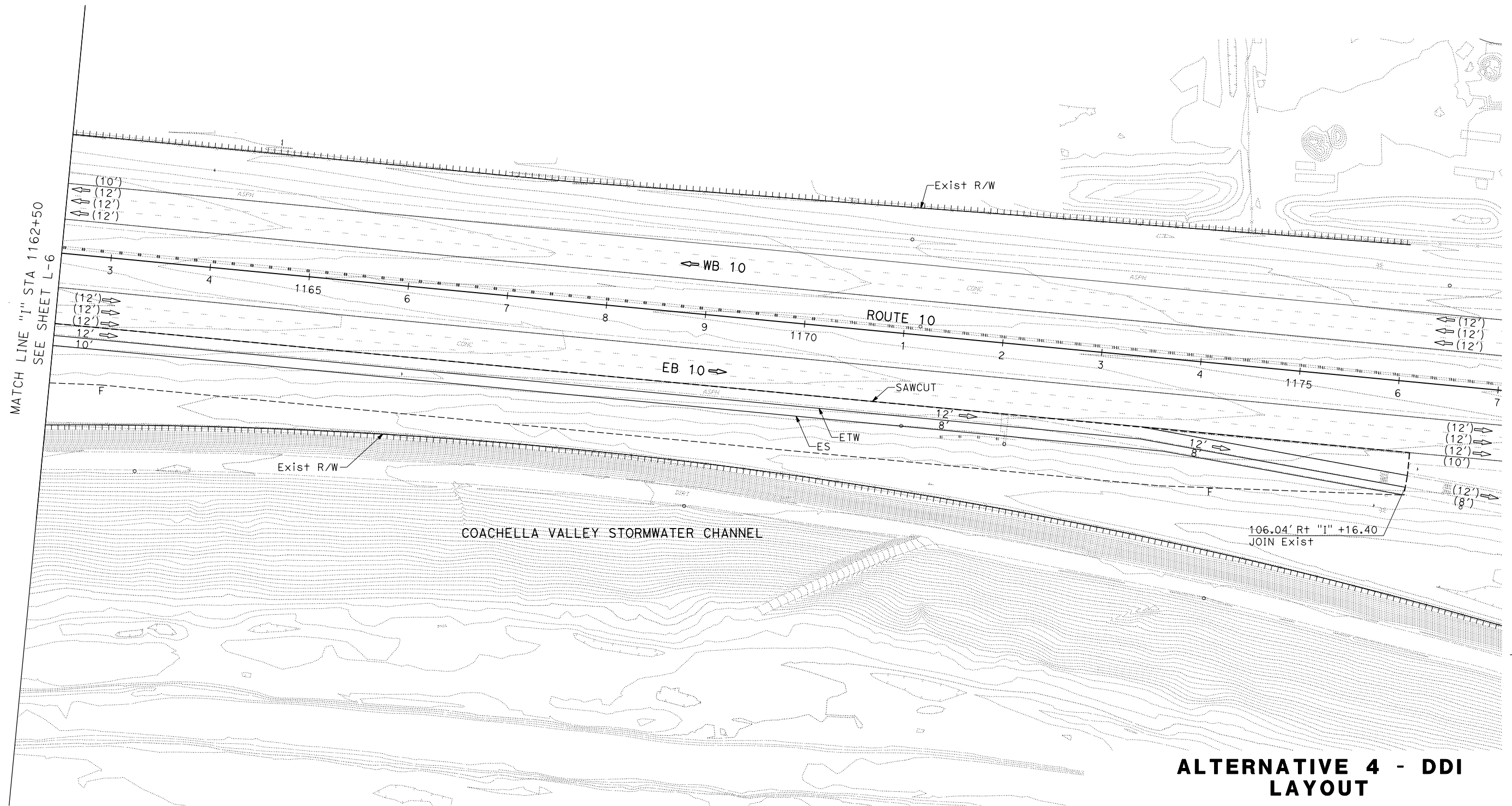
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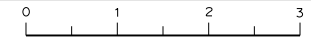
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Caltrans
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 CHECKED BY
 REVISOR BY
 DATE REVISED



ALTERNATIVE 4 - DDI LAYOUT

SCALE: 1" = 100'

L-7



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 CHECKED BY
 REVISED BY
 DATE REVISED

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

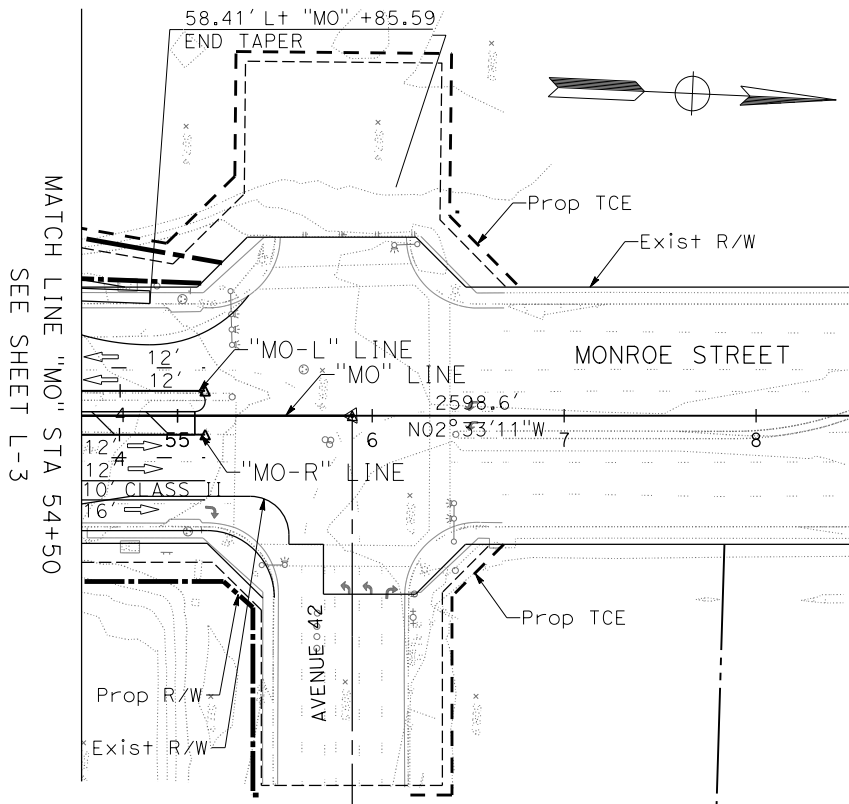
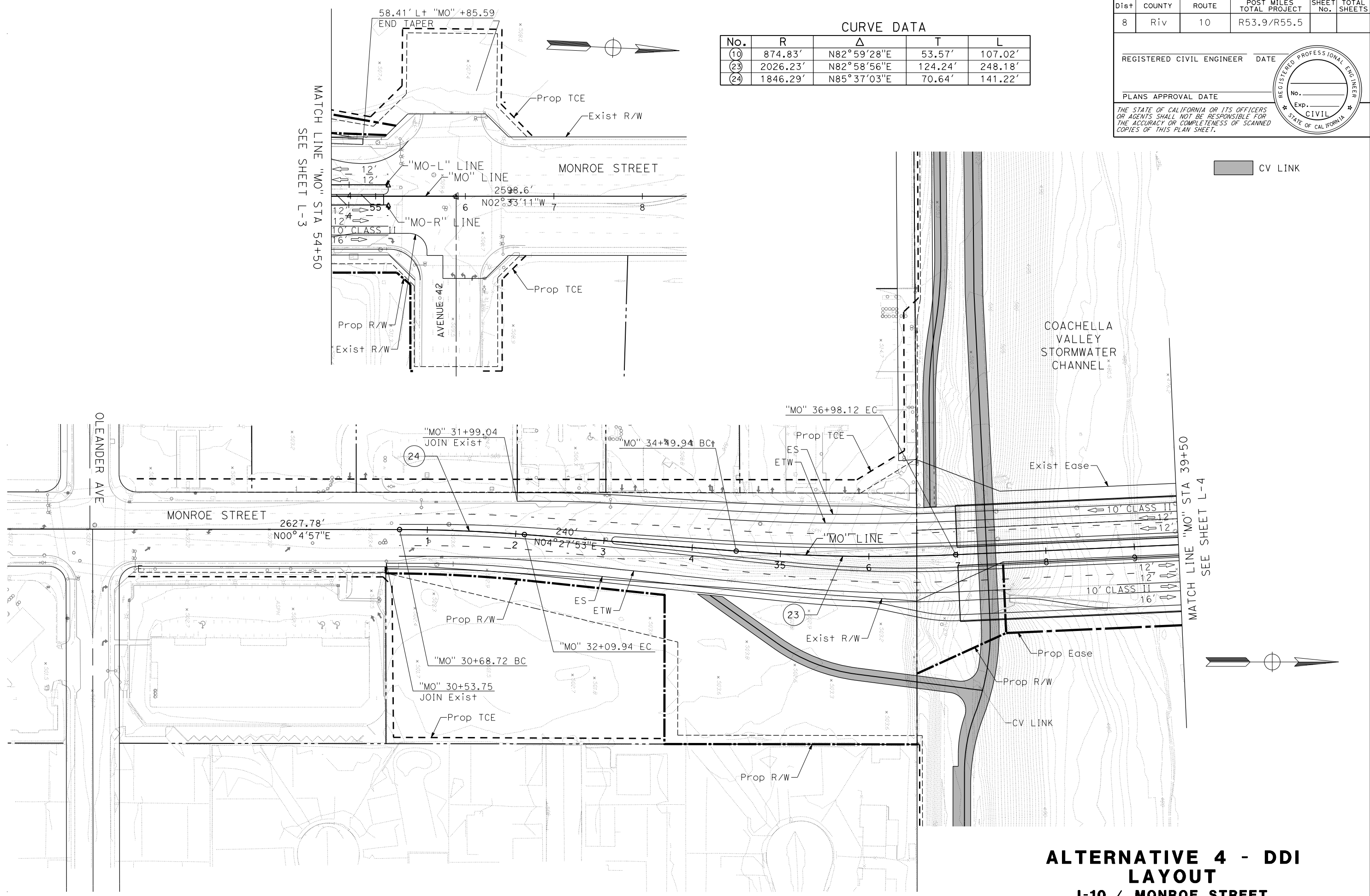
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

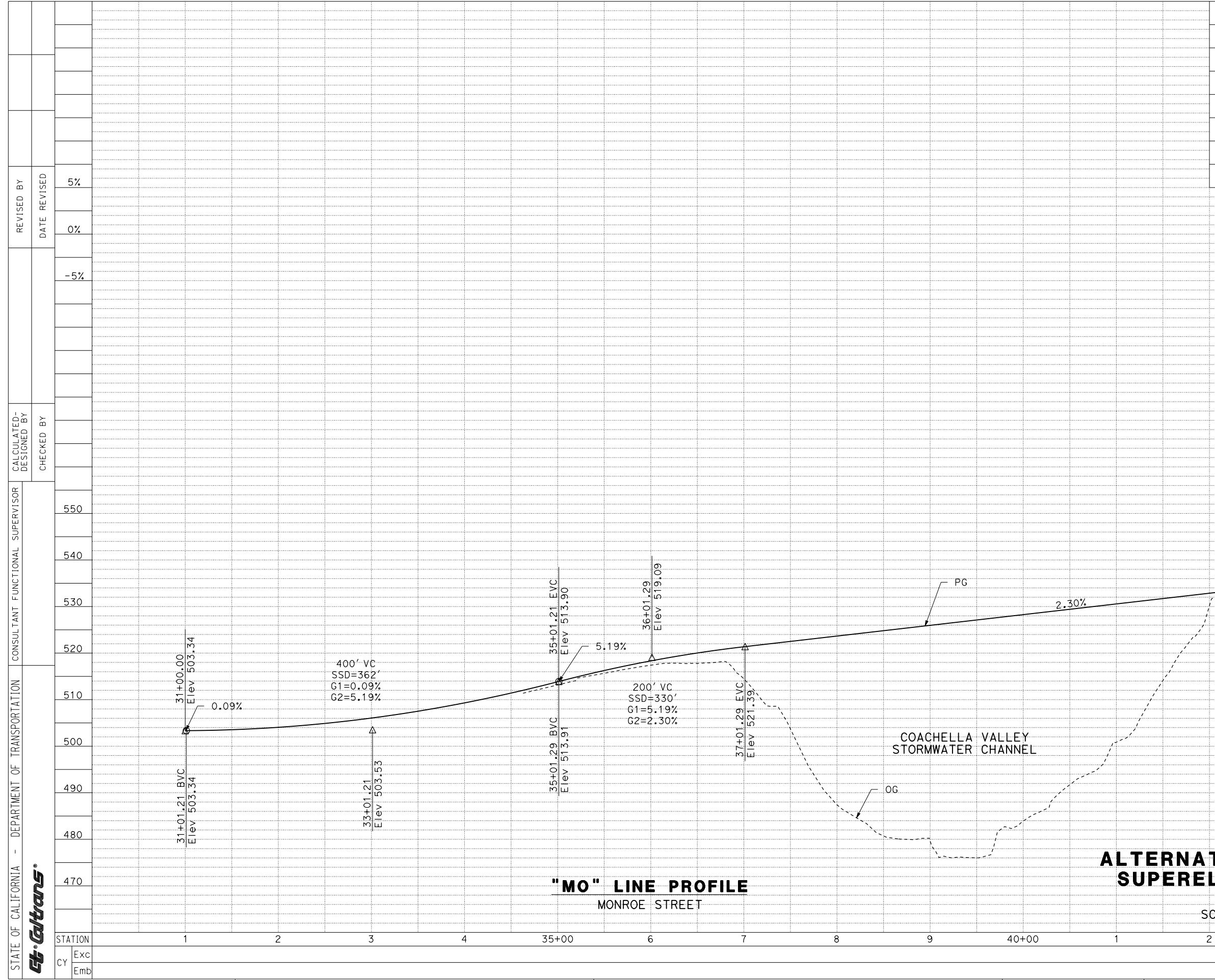
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CURVE DATA

No.	R	Δ	T	L
(10)	874.83'	N82°59'28"E	53.57'	107.02'
(23)	2026.23'	N82°58'56"E	124.24'	248.18'
(24)	1846.29'	N85°37'03"E	70.64'	141.22'



ALTERNATIVE 4 - DDI LAYOUT
I-10 / MONROE STREET
 SCALE: 1" = 100'



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>	
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	CHECKED BY	REVISED BY	DATE REVISED													
					5%													
CY	Exc	Emb	STATION	1	2	3	4	35+00	6	7	8	9	40+00	1	2	3	4	TOTAL
																		5%

BORDER LAST REVISED 7/2/2010

USERNAME => jerusalem.verano
DGN FILE => 163333-A1+4_PS-1.dgn



UNIT 0000

PROJECT NUMBER & PHASE

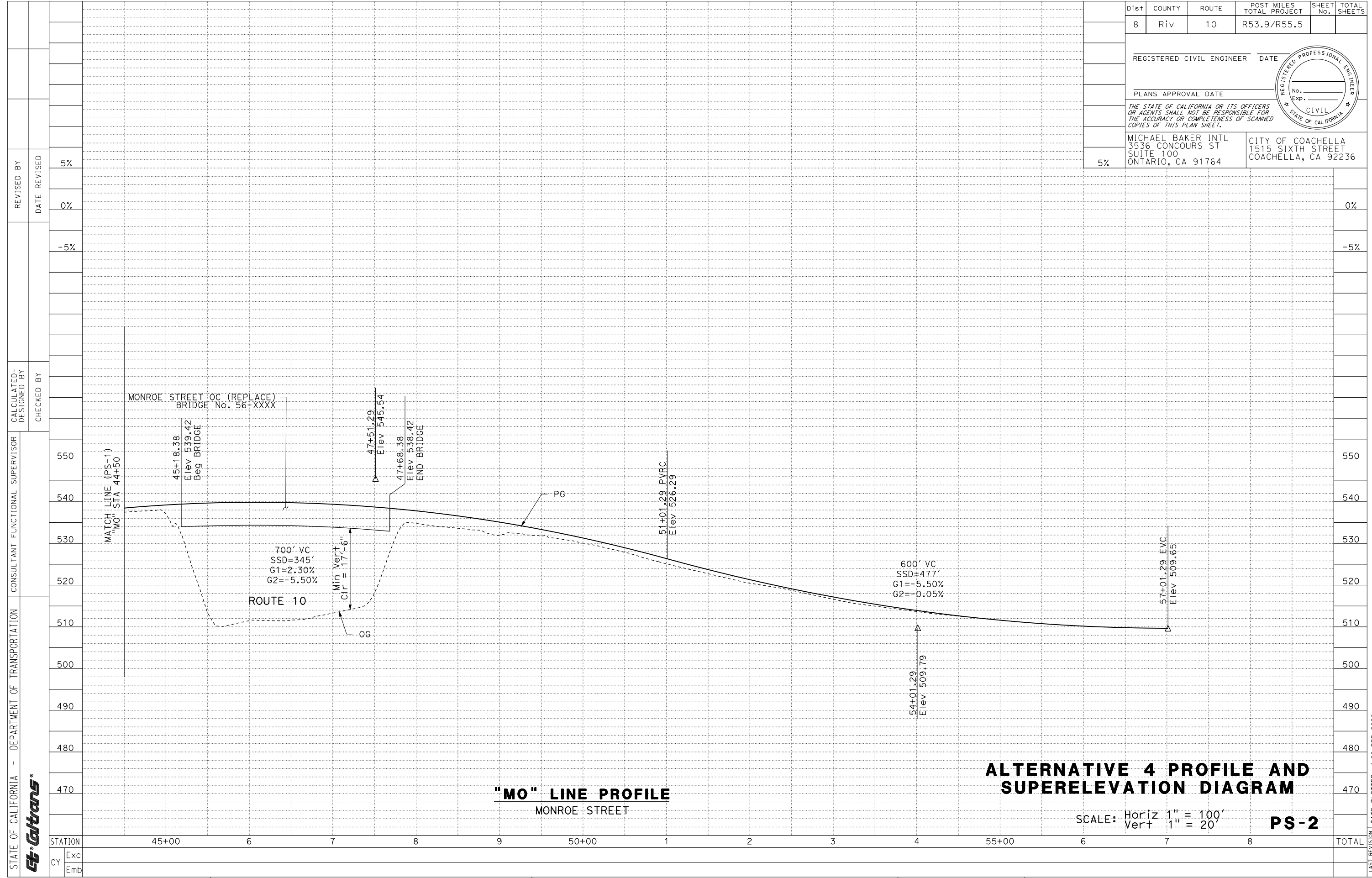
0800000721

ALTERNATIVE 4 PROFILE AND SUPERELEVATION DIAGRAM

SCALE: Horiz 1" = 100'
Vert 1" = 20'

PS-1

LAST REVISION 00-00-00 DATE PLOTTED => 11-FEB-2019 TIME PLOTTED => 17:20



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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MICHAEL BAKER INTL 3536 CONCOURS ST SUITE 100 ONTARIO, CA 91764			CITY OF COACHELLA 1515 SIXTH STREET COACHELLA, CA 92236		



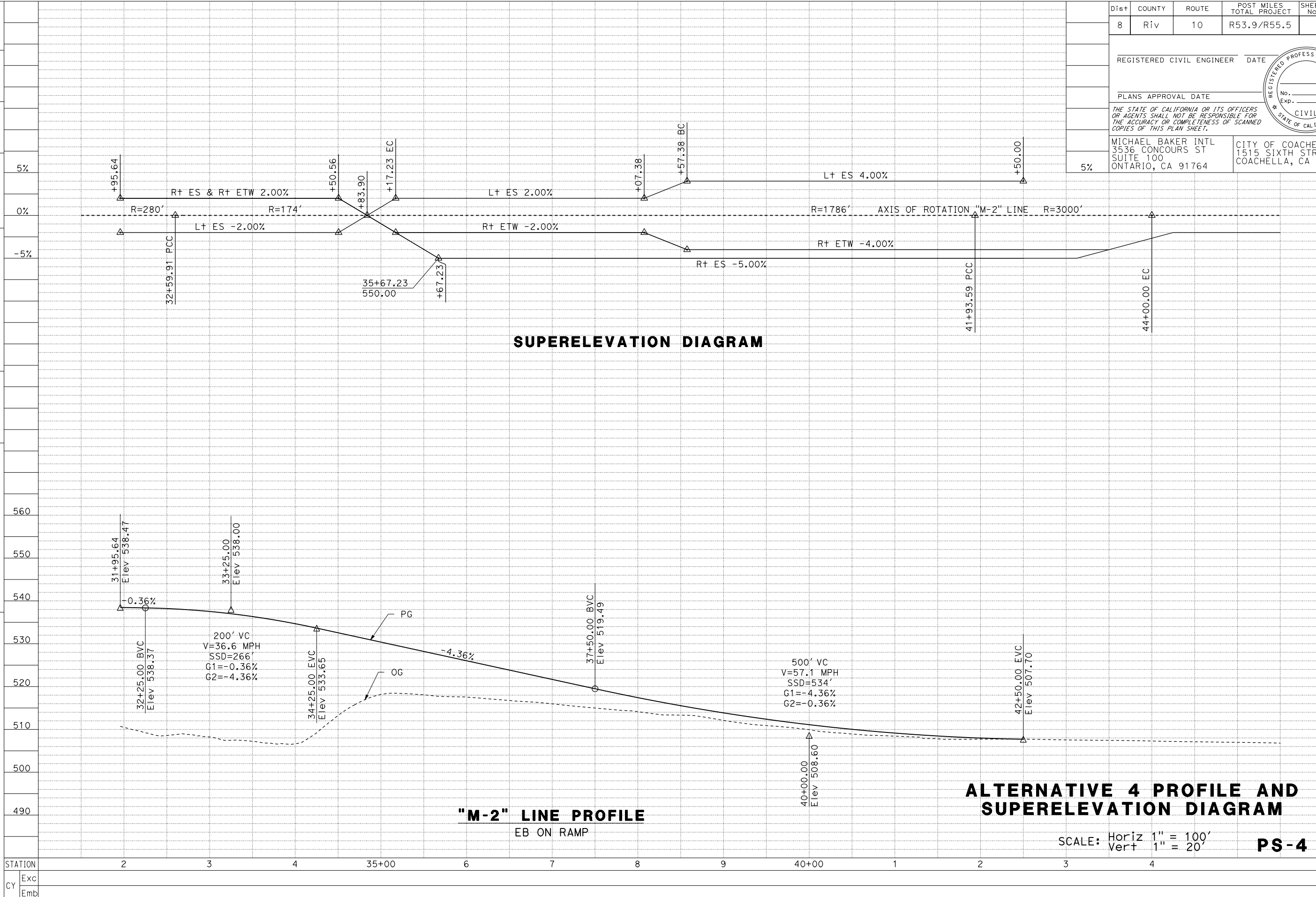
"MO" LINE PROFILE
MONROE STREET

ALTERNATIVE 4 PROFILE AND SUPERELEVATION DIAGRAM

SCALE: Horiz 1" = 100'
Vert 1" = 20'

PS-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
St. Gilbert's
 CONSULTANT FUNCTIONAL SUPERVISOR
 CALCULATED-DESIGNED BY
 CHECKED BY
 REVISOR 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.					
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LAST REVISION 00-00-00 DATE PLOTTED => 11-FEB-2019 TIME PLOTTED => 17:21

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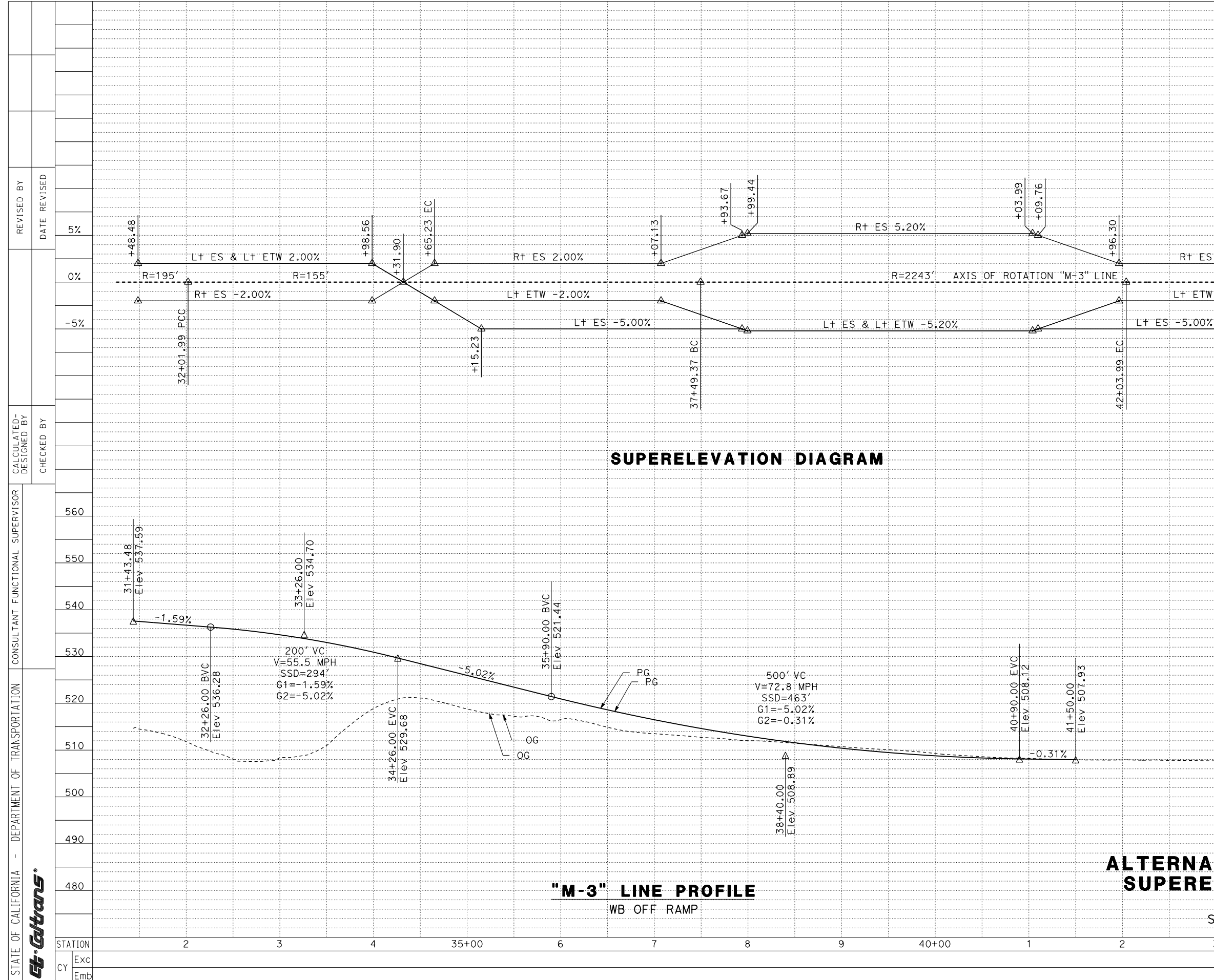
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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MICHAEL BAKER INTL
3536 CONCOURS ST
SUITE 100
ONTARIO, CA 91764

CITY OF COACHELLA
1515 SIXTH STREET
COACHELLA, CA 92236



SUPERELEVATION DIAGRAM

"M-3" LINE PROFILE
WB OFF RAMP

ALTERNATIVE 4 PROFILE AND SUPERELEVATION DIAGRAM

SCALE: Horiz 1" = 100'
Vert 1" = 20'

PS-5

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

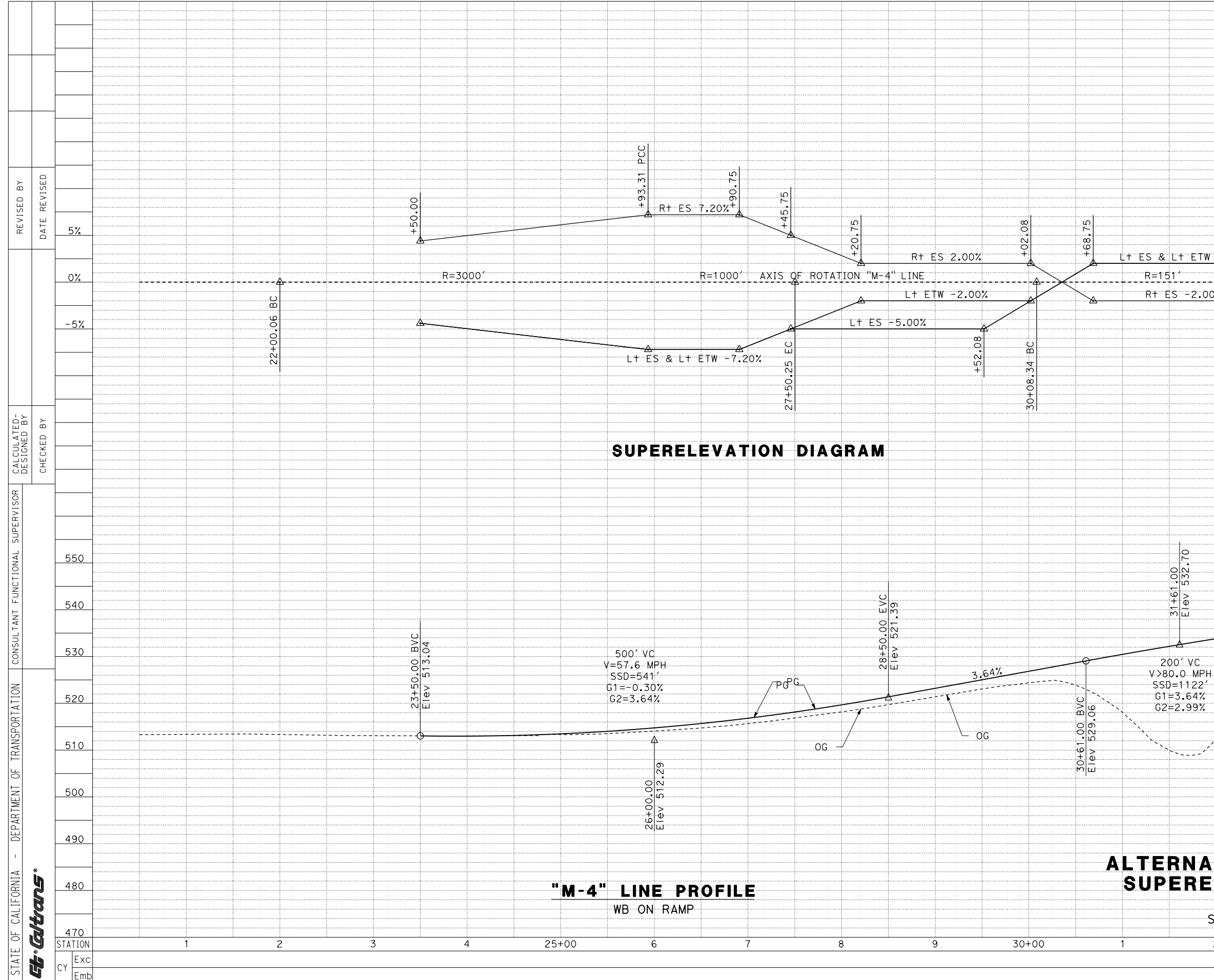
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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MICHAEL BAKER INTL
3536 CONCOURS ST
SUITE 100
ONTARIO, CA 91764

CITY OF COACHELLA
1515 SIXTH STREET
COACHELLA, CA 92236



SUPERELEVATION DIAGRAM

"M-4" LINE PROFILE
WB ON RAMP

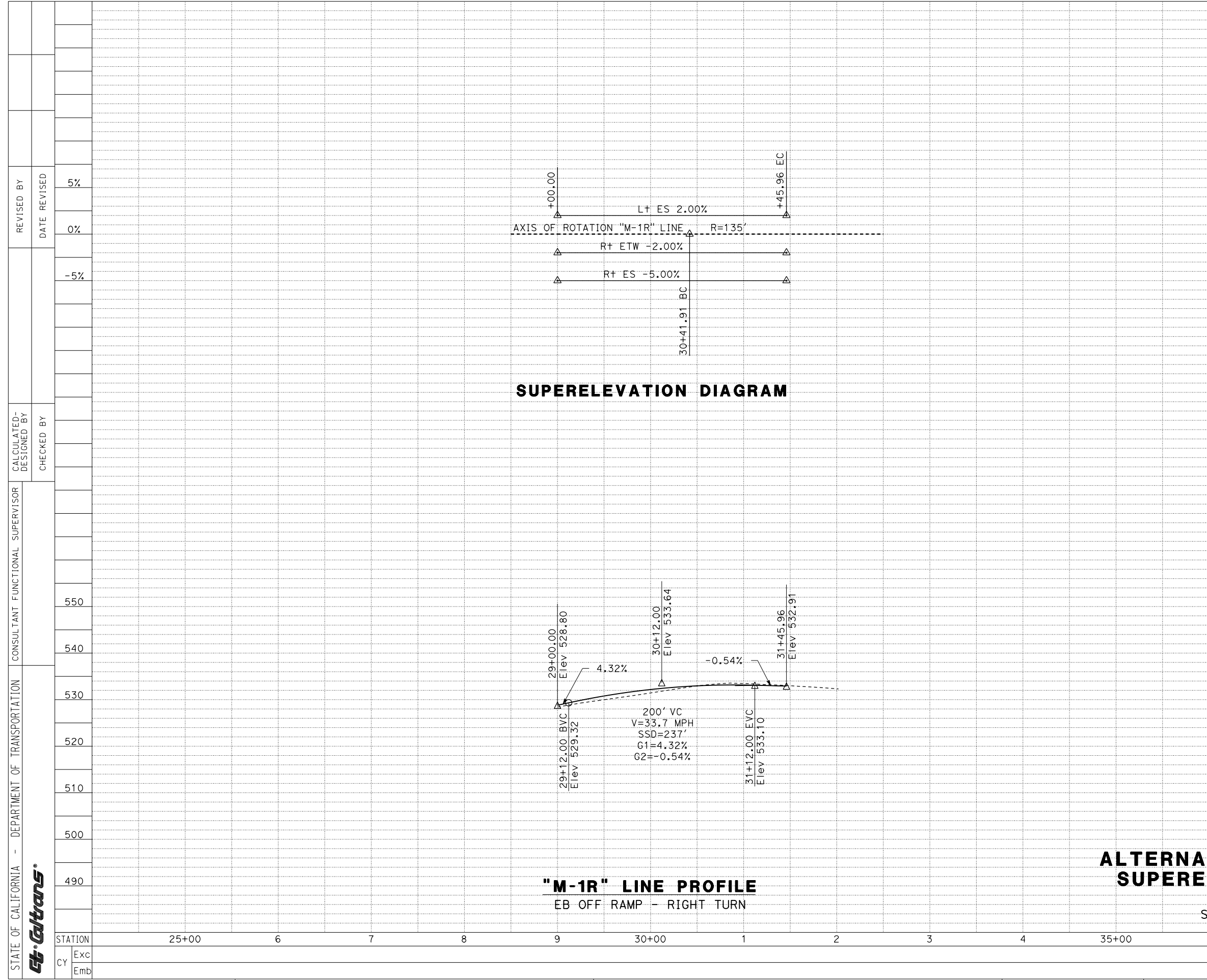
ALTERNATIVE 4 PROFILE AND SUPERELEVATION DIAGRAM

SCALE: Horiz 1" = 100'
Vert 1" = 20'

PS-6

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

550					
540					
530					
520					
510					
500					
490					
480					
470					
STATION	1	2	3	4	TOTAL
CY	Exc				
	Emb				



SUPERELEVATION DIAGRAM

"M-1R" LINE PROFILE
EB OFF RAMP - RIGHT TURN

ALTERNATIVE 4 PROFILE AND SUPERELEVATION DIAGRAM

SCALE: Horiz 1" = 100'
Vert 1" = 20'

PS-7

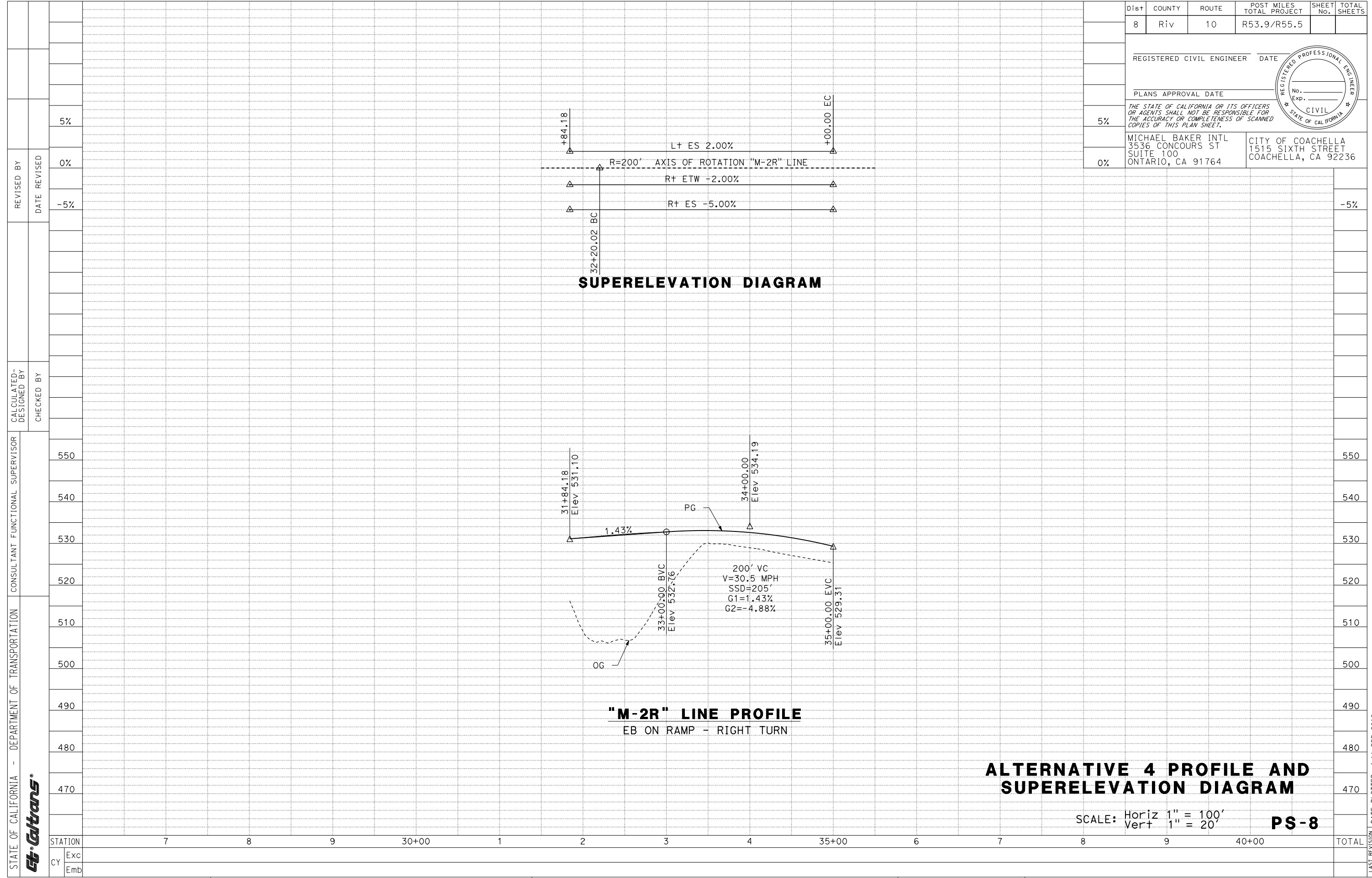
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
8	Riv	10	R53.9/R55.5		
REGISTERED CIVIL ENGINEER DATE					
PLANS APPROVAL DATE					
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
St. Gobans
 CONSULTANT FUNCTIONAL SUPERVISOR
 CALCULATED-DESIGNED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

5%	0%	-5%	0%	-5%	5%
550	540	530	520	510	500
490	480	470	460	450	440
25+00	26+00	27+00	28+00	29+00	30+00
31+00	32+00	33+00	34+00	35+00	TOTAL
Exc					
Emb					

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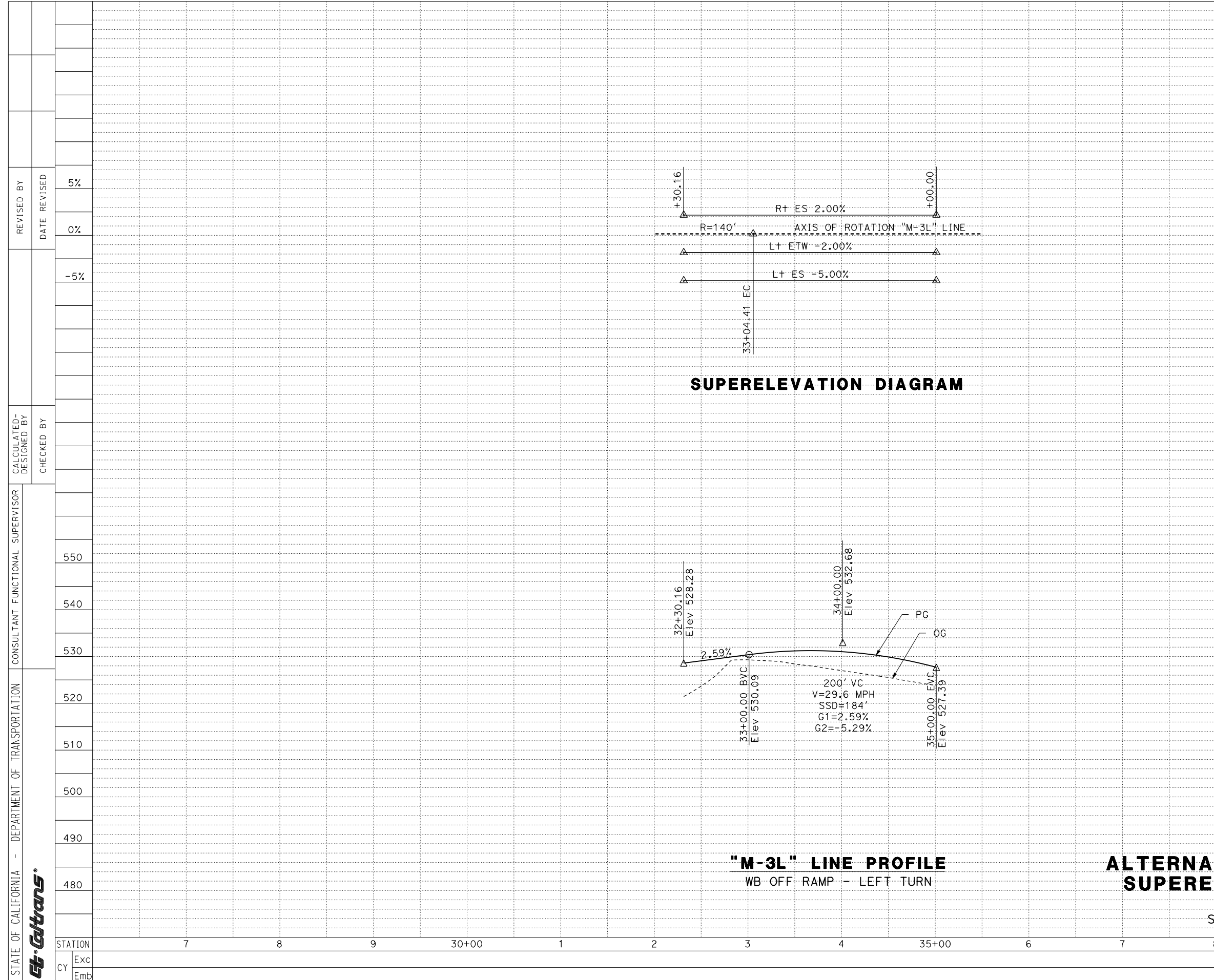
ALTERNATIVE 4 PROFILE AND SUPERELEVATION DIAGRAM

SCALE: Horiz 1" = 100'
 Vert 1" = 20'

PS-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					
<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>					
5%	MICHAEL BAKER INTL 3536 CONCOURS ST SUITE 100 ONTARIO, CA 91764		CITY OF COACHELLA 1515 SIXTH STREET COACHELLA, CA 92236		
0%					

REVISOR	REVISOR	DATE	REVISION
DESIGNED BY	DESIGNED BY	DATE	REVISION
CHECKED BY	CHECKED BY	DATE	REVISION
CALCULATED-DRAWN BY	CALCULATED-DRAWN BY	DATE	REVISION
CONSULTANT SUPERVISOR	CONSULTANT SUPERVISOR	DATE	REVISION
DEPARTMENT OF TRANSPORTATION	DEPARTMENT OF TRANSPORTATION	DATE	REVISION
STATE OF CALIFORNIA	STATE OF CALIFORNIA	DATE	REVISION
STATION	STATION	DATE	REVISION
CY	Exc	DATE	REVISION
	Emb		



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
St. Gobans
 CONSULTANT FUNCTIONAL SUPERVISOR
 CALCULATED-DESIGNED BY
 CHECKED BY
 REVISOR BY
 DATE REVISOR

STATION	Exc	Emb	5%	0%	-5%	550	540	530	520	510	500	490	480	TOTAL
7														
8														
9														
30+00														
1														
2														
3														
4														
35+00														
6														
7														
8														
9														
40+00														
TOTAL														

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	550
	CONSULTANT	540
CALCULATED-DESIGNED BY	CHECKED BY	530
		520
REVISOR	DATE	510
		500
REVISOR	DATE	490
		480
REVISOR	DATE	470
		460
STATION		TOTAL
CY	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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MICHAEL BAKER INTL 3536 CONCOURS ST SUITE 100 ONTARIO, CA 91764			CITY OF COACHELLA 1515 SIXTH STREET COACHELLA, CA 92236		



LAST REVISION DATE PLOTTED => 11-FEB-2019
00-00-00 TIME PLOTTED => 17:23

Project Cost Estimates

Attachment E

I-10/MONROE STREET INTERCHANGE IMPROVEMENT PROJECT

PLANNING COST ESTIMATE

EA: 0K730

EA: 0K730 PID: 0800000368

PID: 0800000368

District-County-Route: 08-Riv-10

PM: R53.9 - R55.5

Type of Estimate : *Project Approval / Environmental Document (PA/ED)*

Program Code : *800.100/HE11*

Project Limits : *R53.9 to R55.5 along I-10 and Avenue 42 to Oleander Avenue along Monroe Street*

Project Description: *I-10 / Monore Street Interchange Improvement Project*

Reconstruct IC in a Tight Diamond Configuration and widen from 2 to 4 through lanes including bridges over Whitewater River and I-10 OC.

Scope : *Reconstruct/widen on-ramp 1 to 2 lanes and off-ramp 1 to 3 lanes. Extend ramps with acceleration/deceleration lanes. Construct e/b auxiliary lane between Monroe and Jackson street.*

Alternative : *#2 - Tight Diamond Interchange - Preferred Alternative*

SUMMARY OF PROJECT COST ESTIMATE

	Current Year Cost	Escalated Cost
TOTAL ROADWAY COST	\$ 42,959,000	\$ 51,803,796
TOTAL STRUCTURES COST	\$ 20,022,071	\$ 24,144,400
SUBTOTAL CONSTRUCTION COST	\$ 62,981,071	\$ 75,948,197
TOTAL RIGHT OF WAY COST	\$ 5,529,520	\$ 6,686,000
TOTAL CAPITAL OUTLAY COSTS	\$ 68,511,000	\$ 82,635,000
PA/ED SUPPORT	\$ -	\$ -
PS&E SUPPORT	\$ 5,000,000	\$ 5,410,322
RIGHT OF WAY SUPPORT	\$ 502,000	\$ 561,290
CONSTRUCTION SUPPORT	\$ 7,000,000	\$ 7,850,677
TOTAL SUPPORT COST	\$ 12,502,000	\$ 13,822,289

TOTAL PROJECT COST	\$ 81,100,000	\$ 96,500,000
---------------------------	----------------------	----------------------

If Project has been programmed enter Programmed Amount _____ *n/a*

Date of Estimate (Month/Year) _____ Month / Year
10 / 2020

Estimated Construction Start (Month/Year) _____ 8 / 2023

Number of Working Days = 500

Estimated Mid-Point of Construction (Month/Year) _____ 10 / 2024

Estimated Construction End (Month/Year) _____ 12 / 2025

Number of Plant Establishment Days 250

Estimated Project Schedule

<i>PID Approval</i>	<i>APPROVED</i>
<i>PA/ED Approval</i>	<i>10/30/20</i>
<i>PS&E</i>	<i>12/01/22</i>
<i>RTL</i>	<i>03/01/23</i>
<i>Begin Construction</i>	<i>08/01/23</i>

Reviewed by District O.E. or
Cost Estimate Certifier

Randy Ratzlaff, P.E.

12/4/2019

909-974-4973

Cost Estimate Certifier

Date

Phone

Approved by Project Manager

Rebecca Young, P.E.

1/10/2020

909-974-4976

Project Manager

Date

Phone

I-10/MONROE STREET INTERCHANGE IMPROVEMENT PROJECT

EA: 0K730 PID: 0800000368

I. ROADWAY ITEMS SUMMARY

	Section	Cost
1	Earthwork	\$ 2,417,000
2	Pavement Structural Section	\$ 6,599,400
3	Drainage	\$ 1,599,300
4	Specialty Items	\$ 9,961,700
5	Environmental	\$ 2,699,600
6	Traffic Items	\$ 3,775,000
7	Detours	\$ -
8	Minor Items	\$ 270,600
9	Roadway Mobilization	\$ 2,732,300
10	Supplemental Work	\$ 1,067,600
11	State Furnished	\$ 1,649,700
12	Time-Related Overhead	\$ 4,583,400
13	Roadway Contingency	\$ 5,603,400
TOTAL ROADWAY ITEMS		\$ 42,959,000

Estimate Prepared By : Jerusalem Verano, Project Engineer 9/6/2019 (909) 974-4938
Date Phone

Estimate Reviewed By : Rebecca Young, Project Manager 9/10/2019 (909) 974-4976
Date Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

I-10/MONROE STREET INTERCHANGE IMPROVEMENT PROJECT

EA: 0K730 PID: 0800000368

SECTION 1: EARTHWORK

Item code		Unit	Quantity		Unit Price (\$)		Cost
190101	Roadway Excavation	CY	21,800	x	25.00	= \$	545,000
198010	Imported Borrow	CY	87,000	x	20.00	= \$	1,740,000
170103	Clearing & Grubbing	ACRE	44	x	3,000.00	= \$	132,000

TOTAL EARTHWORK SECTION ITEMS \$ 2,417,000

SECTION 2: PAVEMENT STRUCTURAL SECTION

Item code		Unit	Quantity		Unit Price (\$)		Cost
401050	Jointed Plain Concrete Pavement	CY	5,700	x	270.00	= \$	1,539,000
400050	Continuously Reinforced Concrete Pavement	CY	12,100	x	270.00	= \$	3,267,000
390132	Hot Mix Asphalt (Type A)	TON	6,400	x	100.00	= \$	640,000
260203	Class 2 Aggregate Base	CY	18,800	x	40.00	= \$	752,000
731530	Minor Concrete (Textured Paving)	CY	120	x	780.00	= \$	93,600
731521	Minor Concrete (Sidewalk)	CY	155	x	600.00	= \$	93,000
731504	Minor Concrete (Curb and Gutter)	CY	165	x	450.00	= \$	74,250
731623	Minor Concrete (Curb Ramp)	CY	73	x	1,020.00	= \$	74,460
418002	Remove Concrete Pavement and Base	CY	400	x	165.00	= \$	66,000

TOTAL PAVEMENT STRUCTURAL SECTION ITEMS \$ 6,599,400

I-10/MONROE STREET INTERCHANGE IMPROVEMENT PROJECT

EA: 0K730 PID: 0800000368

SECTION 3: DRAINAGE

Item code		Unit	Quantity		Unit Price (\$)		Cost
710132	Remove Culvert	LF	1,936	x	50.00	= \$	96,800
510502	Minor Concrete (Minor Structure)	CY	8	x	1,535.00	= \$	12,280
620100	18" Alternative Pipe Culvert	LF	40	x	132.00	= \$	5,280
620140	24" Alternative Pipe Culvert	LF	3,205	x	188.00	= \$	602,540
650034	48" Reinforced Concrete Pipe	LF	705	x	430.00	= \$	303,150
665058	66" Corrugated Steel Pipe (0.109" Thick)	LF	7	x	360.00	= \$	2,520
665066A	84" Corrugated Steel Pipe (0.138" Thick)	LF	17	x	992.47	= \$	16,872
707117	36" Precast Concrete Pipe Inlet	LF	10	x	571.00	= \$	5,710
705204	18" Concrete Flared End Section	EA	2	x	1,820.00	= \$	3,640
705206	24" Concrete Flared End Section	EA	9	x	3,155.00	= \$	28,395
723095	Rock Slope Protection (Class I, Method B)	CY	140	x	753.00	= \$	105,420
729011	Rock Slope Protection Fabric (Class 8)	SQYD	320	x	5.00	= \$	1,600
750001	Miscellaneous Iron and Steel	LB	6,700	x	3.20	= \$	21,440
710150	Remove Inlet	EA	6	x	1,700.00	= \$	10,200
510092	Structural Concrete, Headwall	CY	58	x	1,407.00	= \$	81,606
510094	Structural Concrete, Drainage Inlet	CY	54	x	1,885.00	= \$	101,790
XXXXXX	Temporary Creek Diversion System Plan	LS	1	x	200,000.00	= \$	200,000

TOTAL DRAINAGE ITEMS	\$	1,599,300
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SECTION 4: SPECIALTY ITEMS

Item code		Unit	Quantity		Unit Price (\$)		Cost
080050	Progress Schedule (Critical Path Method)	LS	1	x	5,000.00	= \$	5,000
141120	Treated Wood Waste	LB	35,000	x	0.45	= \$	15,750
139752	Remove Guardrail	LF	2,590	x	11.00	= \$	28,490
710167	Remove Flared End Section (EA)	EA	6	x	690.00	= \$	4,140
800360	Chain Link Fence (Type CL-6)	LF	940	x	60.00	= \$	56,400
839301	Single Thrie Beam Barrier	LF	1,075	x	45.00	= \$	48,375
839584	Alternative In-line Terminal System	EA	2	x	4,450.00	= \$	8,900
600105	Bridge Removal, Location A (Monroe Channel Overcrossing)	LS	1	x	240,000.00	= \$	240,000
600106	Bridge Removal, Location B (Monroe Street Overcrossing)	LS	1	x	525,000.00	= \$	525,000
XXXXXX	Retaining Wall (Type 1) with Conc Barrier	SQFT	27,760	x	210.00	= \$	5,829,600
XXXXXX	South Bank Lining and CV Link Realignment	LS	1	x	3,200,000.00	= \$	3,200,000

TOTAL SPECIALTY ITEMS	\$	9,961,700
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I-10/MONROE STREET INTERCHANGE IMPROVEMENT PROJECT

EA: 0K730 PID: 0800000368

SECTION 5: ENVIRONMENTAL

5A - ENVIRONMENTAL MITIGATION

Item code	Unit	Quantity	Unit Price (\$)	Cost
XXXXXX Residual Pesticide Sampling (APNs 610-330-027, 610-093-037, 610-020-034, and 610-020-036)	LS	1	5,000.00 = \$	5,000
XXXXXX ACM Abatement & Compliance Plan (Bridge Structures)	EA	2	10,000.00 = \$	20,000
<i>Subtotal Environmental Mitigation</i>				\$ 25,000

5B - LANDSCAPE AND IRRIGATION

Item code	Unit	Quantity	Unit Price (\$)	Cost
20XXXX Highway Planting, Irrigation, Gravel	SQFT	393,000	4.00 = \$	1,572,000
<i>Subtotal Landscape and Irrigation</i>				\$ 1,572,000

5C - EROSION CONTROL

Item code	Unit	Quantity	Unit Price (\$)	Cost
<i>Subtotal Erosion Control</i>				\$ -

5D - NPDES

Item code	Unit	Quantity	Unit Price (\$)	Cost
130300 Prepare SWPPP	LS	1	14,400.00 = \$	14,400
130100 Job Site Management	LS	1	98,500.00 = \$	98,500
130330 Storm Water Annual Report	EA	3	2,000.00 = \$	6,000
130520 Temporary Hydraulic Mulch	SQYD		= \$	-
130505 Move-In/Move-Out (Temporary Erosion Control)	EA		= \$	-
130640 Temporary Fiber Roll	LF		= \$	-
130900 Temporary Concrete Washout	LS		= \$	-
130710 Temporary Construction Entrance	EA		= \$	-
130610 Temporary Check Dam	LF		= \$	-
130620 Temporary Drainage Inlet Protection	EA		= \$	-
130730 Street Sweeping	LS	1	37,900.00 = \$	37,900
131201 Temporary Creek Diversion Systems	LS		= \$	-
160110 Temporary High-Visibility Fence	LF		= \$	-
XXXXXX Temp Site BMPs (1.25% Escalated Construction Cost)	LS	1	960,200.00 = \$	960,200
<i>Subtotal NPDES</i>				\$ 1,102,600

TOTAL ENVIRONMENTAL	\$ 2,699,600
----------------------------	---------------------

Supplemental Work for NPDES

066595 Water Pollution Control Maintenance Sharing*	LS	1	14,400.00 = \$	14,400
066596 Additional Water Pollution Control**	LS	1	6,000.00 = \$	6,000
<i>Subtotal Supplemental Work for NDPS</i>				\$ 20,400

I-10/MONROE STREET INTERCHANGE IMPROVEMENT PROJECT

EA: 0K730 PID: 0800000368

SECTION 6: TRAFFIC ITEMS

6A - Traffic Electrical

Item code	Unit	Quantity	Unit Price (\$)	Cost
860460 Lighting and Sign Illumination (Roadway Lighting)	LS	1 x	45,000.00 = \$	45,000
860460 Lighting and Sign Illumination (City Lighting, Monroe Street)	LS	1 x	117,000.00 = \$	117,000
860201 Signal and Lighting	LS	1 x	500,000.00 = \$	500,000
86110X Ramp Metering System (WB and EB On-Ramps)	EA	2 x	100,000.00 = \$	200,000
86070X Interconnection Conduit and Cable	LS	1 x	100,000.00 = \$	100,000
XXXXXX Communication	LS	1 x	200,000.00 = \$	200,000
XXXXXX Remove Electrical Equipment	LS	1 x	300,000.00 = \$	300,000
XXXXXX Traffic Signal Modification	EA	1 x	75,000.00 = \$	75,000
XXXXXX Overhead Signs (Includes Advance Signs)	EA	8 x	120,000.00 = \$	960,000
XXXXXX Relocate/Upgrade CCTV	EA	1 x	20,000.00 = \$	20,000
<i>Subtotal Traffic Electrical</i>				\$ 2,472,000

6B - Traffic Signing and Striping

Item code	Unit	Quantity	Unit Price (\$)	Cost
566011 Roadside Signs	LS	1 x	200,000.00 = \$	200,000
120090 Construction Area Signs	LS	1 x	20,000.00 = \$	20,000
84XXXX Permanent Pavement Delineation	LS	1 x	100,000.00 = \$	100,000
<i>Subtotal Traffic Signing and Striping</i>				\$ 320,000

6C - Traffic Management Plan

Item code	Unit	Quantity	Unit Price (\$)	Cost
XXXXXX TMP Elements 2, 5, and 6	LS	1 x	\$ 183,000 = \$	183,000
<i>Subtotal Traffic Management Plan</i>				\$ 183,000

6D - Stage Construction and Traffic Handling

Item code	Unit	Quantity	Unit Price (\$)	Cost
120100 Traffic Control System	LS	1 x	450,000.00 = \$	450,000
XXXXXX Temporary Traffic Handling	LS	1 x	50,000.00 = \$	50,000
XXXXXX Temporary Traffic Signal	EA	4 x	75,000.00 = \$	300,000
<i>Subtotal Stage Construction and Traffic Handling</i>				\$ 800,000

TOTAL TRAFFIC ITEMS	\$ 3,775,000
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I-10/MONROE STREET INTERCHANGE IMPROVEMENT PROJECT

EA: 0K730 PID: 080000368

SECTION 7: DETOURS

Includes constructing, maintaining, and removal

Item code	Unit	Quantity	Unit Price (\$)	Cost
TOTAL DETOURS				\$ -
SUBTOTAL SECTIONS 1 through 7				\$ 27,052,000

SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items

ADA Items 0.0% \$ -

8B - Bike Path Items

Bike Path Items 0.0% \$ -

8C - Other Minor Items

Other Minor Items 1.0% \$ 270,520

Total of Section 1-7 \$ 27,052,000 x 1.0% = \$ 270,520

TOTAL MINOR ITEMS	\$ 270,600
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SECTIONS 9: MOBILIZATION

Item code	Total Section 1-8	\$ 27,322,600	x	10%	=	\$	2,732,260
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TOTAL MOBILIZATION	\$ 2,732,300
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SECTION 10: SUPPLEMENTAL WORK

Item code	Unit	Quantity	Unit Price (\$)	Cost
066670	Payment Adjustments For Price Index Fluctuations	LS	1	x 29,500.00 = \$ 29,500
066070	Maintain Traffic	LS	1	x 313,200.00 = \$ 313,200
066919	Dispute Resolution Board	LS	1	x 22,500.00 = \$ 22,500
066921	Dispute Resolution Advisor	LS	1	x 22,500.00 = \$ 22,500
066015	Federal Trainee Program	LS	1	x 28,000.00 = \$ 28,000
066610	Partnering	LS	1	x 70,000.00 = \$ 70,000
066861	Maintain Existing and Temporary Electrical System	LS	1	x 15,000.00 = \$ 15,000

Cost of NPDES Supplemental Work specified in Section 5D = \$ 20,400

Total Section 1-8 \$ 27,322,600 2% = \$ 546,452

TOTAL SUPPLEMENTAL WORK	\$ 1,067,600
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I-10/MONROE STREET INTERCHANGE IMPROVEMENT PROJECT

EA: 0K730 PID: 0800000368

SECTION 11: STATE FURNISHED MATERIALS AND EXPENSES

Item code	Unit	Quantity		Unit Price (\$)		Cost
066105 Resident Engineers Office	LS	1	x	560,500.00	=	\$560,500
066063 TMP Public Information (Element 1)	LS	1	x	273,500.00	=	\$273,500
066062 COZEEP Contract (Twice the TMP Element 3 cost)	LS	1	x	148,800.00	=	\$148,800
066916 Annual Construction General Permit Fee	EA	3	x	1,954.00	=	\$5,862
066065 Freeway Service Patrol for Construction (CFSP) (TMP Element 3)	LS	1	x	14,573.00	=	\$14,573
XXXXXX Signal Controller Assembly	LS	1	x	50,000.00	=	\$50,000
XXXXXX Other Incident Management (TMP Element 3)	LS	1	x	50,000.00	=	\$50,000
Total Section 1-8				\$ 27,322,600	2%	= \$ 546,452

TOTAL STATE FURNISHED	\$1,649,700
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SECTION 12: TIME-RELATED OVERHEAD

Total of Roadway and Structures Contract Items excluding Mobilization	\$45,833,571 (used to calculate TRO)
Total Construction Cost (excluding TRO and Contingency)	\$52,794,271 (used to check if project is greater than \$5 million excluding contingency)

Estimated Time-Related Overhead (TRO) Percentage (0% to 10%) = **10%**

Item code	Unit	Quantity		Unit Price (\$)		Cost
070018 Time-Related Overhead	WD	500	X	\$9,167	=	\$4,583,400

TOTAL TIME-RELATED OVERHEAD	\$4,583,400
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Note: If the building portion of the project is greater than 50% of the total project cost, then TRO is not included.

SECTION 13: ROADWAY CONTINGENCY

Recommended Contingency : (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total recommended percentages includes any quantified risk based contingency from the risk register.

Total Section 1-12	\$	37,355,600	x	15%	=	\$5,603,340
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TOTAL CONTINGENCY	\$5,603,400
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I-10/MONROE STREET INTERCHANGE IMPROVEMENT PROJECT

EA: 0K730 PID: 0800000368

II. STRUCTURE ITEMS

	<u>Bridge 1</u>		<u>Bridge 2</u>		
DATE OF ESTIMATE	09/28/18		12/04/18		00/00/00
Bridge Name	Monroe Street Overcrossing		Monroe Street Over the Whitewater River		xxxxxxxxxxxxxxxxxxxx
Bridge Number	56-XXXX		56CXXXX		57-XXX
Structure Type	CIP/PS Concrete Box Girder		CIP/PS Box		xxxxxxxxxxxxxxxxxxxx
Width (Feet) [out to out]	111.33 LF		125.00 LF		0 LF
Total Bridge Length (Feet)	253.00 LF		489.75 LF		0 LF
Total Area (Square Feet)	28,166 SQFT		61,219 SQFT		0 SQFT
Structure Depth (Feet)	5.50 LF		6.58 LF		0 LF
Footing Type (pile or spread)	Pile		Pile		xxxxxxxxxxxxxxxxxxxx
Cost Per Square Foot	\$175		\$166		\$0
COST OF EACH	\$4,921,300		\$10,189,697		\$0

DATE OF ESTIMATE	00/00/00		00/00/00		00/00/00
Name	xxxxxxxxxxxxxxxxxxxx		xxxxxxxxxxxxxxxxxxxx		xxxxxxxxxxxxxxxxxxxx
Bridge Number	57-XXX		57-XXX		57-XXX
Structure Type	xxxxxxxxxxxxxxxxxxxx		xxxxxxxxxxxxxxxxxxxx		xxxxxxxxxxxxxxxxxxxx
Width (Feet) [out to out]	0 LF		0 LF		0 LF
Total Length (Feet)	0 LF		0 LF		0 LF
Total Area (Square Feet)	0 SQFT		0 SQFT		0 SQFT
Structure Depth (Feet)	0 LF		0 LF		0 LF
Footing Type (pile or spread)	xxxxxxxxxxxxxxxxxxxx		xxxxxxxxxxxxxxxxxxxx		xxxxxxxxxxxxxxxxxxxx
Cost Per Square Foot	\$100		\$0		\$0
COST OF EACH	\$0		\$0		\$0

TOTAL COST OF BRIDGES	\$15,110,997
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TOTAL COST OF BUILDINGS	\$0
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Structures Mobilization Percentage	10%	\$1,511,100
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Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total recommended percentages includes any quantified risk based contingency from the risk register.

Structures Contingency Percentage	20%	\$3,022,199
Additional Aesthetic Treatment (2.5%)	2.5%	\$377,775

TOTAL COST OF STRUCTURES	\$20,022,071
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Bridge 1 - Kevin Michalski (Parsons)

Estimate Prepared By: Bridge 2 - Kyle Turner (Michael Baker International)

As Noted

Date

I-10/MONROE STREET INTERCHANGE IMPROVEMENT PROJECT

EA: 0K730 PID: 0800000368

III. RIGHT OF WAY

Fill in all of the available information from the Right of Way data sheet.

A)	A1) Acquisition, including Excess Land Purchases, Damages & Goodwill, Fees		\$	2,862,380
	A2) SB-1210		\$	0
B)	Acquisition of Offsite Mitigation		\$	0
C)	C1) Utility Relocation (State Share)		\$	0
	C2) Potholing (Design Phase)		\$	0
D)	Railroad Acquisition		\$	0
E)	Clearance / Demolition		\$	0
F)	Relocation Assistance (RAP and/or Last Resort Housing Costs)		\$	0
G)	Title and Escrow		\$	0
H)	Environmental Review		\$	0
I)	Condemnation Settlements	<u>0%</u>	\$	312,500
J)	Design Appreciation Factor	<u>0%</u>	\$	0
K)	Utility Relocation (Construction Cost)		\$	2,354,640

L)	TOTAL RIGHT OF WAY ESTIMATE	\$5,529,520
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M)	TOTAL R/W ESTIMATE: Escalated	\$6,686,000
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Amount provided from r/w data sheet.

N)	RIGHT OF WAY SUPPORT	\$502,000
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Support Cost Estimate Prepared By Patti Feist (760) 899-5569
Project Coordinator¹ Phone

Utility Estimate Prepared By Jerusalem Verano (909) 974-4938
Utility Coordinator² Phone

R/W Acquisition Estimate Prepared By Patti Feist (760) 899-5569
Right of Way Estimator³ Phone

Note: Items G & H applied to items A + B

¹ When estimate has Support Costs only

² When estimate has Utility Relocation

³ When R/W Acquisition is required

I-10/MONROE STREET INTERCHANGE IMPROVEMENT PROJECT

PLANNING COST ESTIMATE

EA: 0K730

EA: 0K730 PID: 0800000368

PID: 0800000368

District-County-Route: 08-Riv-10

PM: R53.9 - R55.5

Type of Estimate : *Project Approval / Environmental Document (PA/ED)*

Program Code : 800.100/HE11

Project Limits : R53.9 to R55.5 along I-10 and Avenue 42 to Oleander Avenue along Monroe Street

Project Description: *I-10 / Monore Street Interchange Improvement Project*

Reconstruct IC in a Diverging Diamond Configuration and widen from 2 to 4 through lanes including bridges over Whitewater River and I-10

Scope : *OC. Reconstruct/widen on and off-ramps 1 to 2 lanes. Extend ramps with acceleration/deceleration lanes. Construct e/b auxiliary lane between Monroe and Jackson street.*

Alternative : **#4 - Diverging Diamond Interchange**

SUMMARY OF PROJECT COST ESTIMATE

	Current Year Cost	Escalated Cost
TOTAL ROADWAY COST	\$ 43,940,400	\$ 52,987,256
TOTAL STRUCTURES COST	\$ 19,345,625	\$ 23,328,682
SUBTOTAL CONSTRUCTION COST	\$ 63,286,025	\$ 76,315,938
TOTAL RIGHT OF WAY COST	\$ 5,637,000	\$ 6,816,000
TOTAL CAPITAL OUTLAY COSTS	\$ 68,924,000	\$ 83,132,000
PA/ED SUPPORT	\$ -	\$ -
PS&E SUPPORT	\$ 5,000,000	\$ 5,410,322
RIGHT OF WAY SUPPORT	\$ 502,000	\$ 561,290
CONSTRUCTION SUPPORT	\$ 7,000,000	\$ 7,850,677
TOTAL SUPPORT COST	\$ 12,502,000	\$ 13,822,289

TOTAL PROJECT COST	\$ 81,500,000	\$ 97,000,000
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If Project has been programmed enter Programmed Amount _____ *n/a*

Date of Estimate (Month/Year) _____ Month / Year
10 / 2020

Estimated Construction Start (Month/Year) _____ 8 / 2023

Number of Working Days = 500

Estimated Mid-Point of Construction (Month/Year) _____ 10 / 2024

Estimated Construction End (Month/Year) _____ 12 / 2025

Number of Plant Establishment Days 250

Estimated Project Schedule

<i>PID Approval</i>	APPROVED
<i>PA/ED Approval</i>	10/30/20
<i>PS&E</i>	12/01/22
<i>RTL</i>	03/01/23
<i>Begin Construction</i>	08/01/23

Reviewed by District O.E. or Cost Estimate Certifier	Randy Ratzlaff, P.E.	12/4/2019	909-974-4973
	Cost Estimate Certifier	Date	Phone

Approved by Project Manager	Rebecca Young, P.E.	1/10/2020	909-974-4976
	Project Manager	Date	Phone

I. ROADWAY ITEMS SUMMARY

	Section	Cost
1	Earthwork	\$ 2,603,100
2	Pavement Structural Section	\$ 7,054,100
3	Drainage	\$ 2,034,300
4	Specialty Items	\$ 9,166,300
5	Environmental	\$ 2,753,800
6	Traffic Items	\$ 4,175,000
7	Detours	\$ -
8	Minor Items	\$ 277,900
9	Roadway Mobilization	\$ 2,806,500
10	Supplemental Work	\$ 1,084,200
11	State Furnished	\$ 1,658,700
12	Time-Related Overhead	\$ 4,595,100
13	Roadway Contingency	\$ 5,731,400
TOTAL ROADWAY ITEMS		\$ 43,940,400

Estimate Prepared By : Jerusalem Verano, Project Engineer 9/6/2019 (909) 974-4938
Date Phone

Estimate Reviewed By : Rebecca Young, Project Manager 9/10/2019 (909) 974-4976
Date Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

SECTION 1: EARTHWORK

Item code		<i>Unit</i>	<i>Quantity</i>		<i>Unit Price (\$)</i>		<i>Cost</i>
190101	Roadway Excavation	CY	24,800	x	25.00	= \$	620,000
198010	Imported Borrow	CY	123,402	x	15.00	= \$	1,851,030
170103	Clearing & Grubbing	ACRE	44	x	3,000.00	= \$	132,000

TOTAL EARTHWORK SECTION ITEMS	\$ 2,603,100
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SECTION 2: PAVEMENT STRUCTURAL SECTION

Item code		<i>Unit</i>	<i>Quantity</i>		<i>Unit Price (\$)</i>		<i>Cost</i>
401050	Jointed Plain Concrete Pavement	CY	4,600	x	270.00	= \$	1,242,000
400050	Continuously Reinforced Concrete Pavement	CY	12,900	x	270.00	= \$	3,483,000
390132	Hot Mix Asphalt (Type A)	TON	6,800	x	100.00	= \$	680,000
260203	Class 2 Aggregate Base	CY	17,500	x	40.00	= \$	700,000
731530	Minor Concrete (Textured Paving)	CY	120	x	780.00	= \$	93,600
731521	Minor Concrete (Sidewalk)	CY	220	x	600.00	= \$	132,000
731504	Minor Concrete (Curb and Gutter)	CY	430	x	450.00	= \$	193,500
731623	Minor Concrete (Curb Ramp)	CY	24	x	1,020.00	= \$	24,480
418002	Remove Concrete Pavement and Base	CY	400	x	165.00	= \$	66,000

TOTAL PAVEMENT STRUCTURAL SECTION ITEMS	\$ 7,054,100
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SECTION 3: DRAINAGE

Item code	Unit	Quantity		Unit Price (\$)		Cost
110132	Remove Culvert	LF	2,260	x	50.00	= \$ 113,000
510502	Minor Concrete (Minor Structure)	CY	13	x	1,535.00	= \$ 19,955
620100	18" Alternative Pipe Culvert	LF	706	x	132.00	= \$ 93,192
620140	24" Alternative Pipe Culvert	LF	3,740	x	188.00	= \$ 703,120
650034	48" Reinforced Concrete Pipe	LF	947	x	430.00	= \$ 407,210
665058	66" Corrugated Steel Pipe (0.109" Thick)	LF	7	x	360.00	= \$ 2,520
665066A	84" Corrugated Steel Pipe (0.138" Thick)	LF	17	x	992.47	= \$ 16,872
707117	36" Precast Concrete Pipe Inlet	LF	30	x	571.00	= \$ 17,130
705204	18" Concrete Flared End Section	EA	1	x	1,820.00	= \$ 1,820
705206	24" Concrete Flared End Section	EA	11	x	3,155.00	= \$ 34,705
723095	Rock Slope Protection (Class I, Method B)	CY	140	x	753.00	= \$ 105,420
729011	Rock Slope Protection Fabric (Class 8)	SQYD	320	x	5.00	= \$ 1,600
750001	Miscellaneous Iron and Steel	LB	11,196	x	3.20	= \$ 35,827
510092	Structural Concrete, Headwall	CY	78	x	1,407.00	= \$ 109,746
510094	Structural Concrete, Drainage Inlet	CY	85	x	1,885.00	= \$ 160,225
710150	Remove Inlet	EA	7	x	1,700.00	= \$ 11,900
XXXXXX	Temporary Creek Diversion System Plan	LS	1	x	200,000.00	= \$ 200,000

TOTAL DRAINAGE ITEMS	\$	2,034,300
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SECTION 4: SPECIALTY ITEMS

Item code	Unit	Quantity		Unit Price (\$)		Cost
080050	Progress Schedule (Critical Path Method)	LS	1	x	5,000.00	= \$ 5,000
141120	Treated Wood Waste	LB	35,000	x	0.45	= \$ 15,750
839752	Remove Guardrail	LF	1,610	x	12.00	= \$ 19,320
710167	Remove Flared End Section (EA)	EA	6	x	690.00	= \$ 4,140
8000XX	Chain Link Fence (Type CL-6)	LF	940	x	60.00	= \$ 56,400
839301	Single Thrie Beam Barrier	LF	1,150	x	45.00	= \$ 51,750
839584	Alternative In-line Terminal System	EA	2	x	4,450.00	= \$ 8,900
XXXXXX	Retaining Wall (Type 1) with Conc Barrier	SQFT	24,000	x	210.00	= \$ 5,040,000
600105	Bridge Removal, Location A (Monroe Channel Overcrossing)	LS	1	x	240,000.00	= \$ 240,000
600106	Bridge Removal, Location B (Monroe Street Overcrossing)	LS	1	x	525,000.00	= \$ 525,000
XXXXXX	South Bank Lining and CV Link Realignment	LS	1	x	3,200,000.00	= \$ 3,200,000

TOTAL SPECIALTY ITEMS	\$	9,166,300
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SECTION 5: ENVIRONMENTAL

5A - ENVIRONMENTAL MITIGATION

Item code	Unit	Quantity	Unit Price (\$)	Cost
XXXXXX Residual Pesticide Sampling (APNs 610-330-027, 610-093-037, 610-020-034, and 610-020-036)	LS	1	x 5,000.00 = \$	5,000
XXXXXX ACM Abatement & Compliance Plan (Bridge Structures)	EA	2	x 10,000.00 = \$	20,000
<i>Subtotal Environmental Mitigation</i>				\$ 25,000

5B - LANDSCAPE AND IRRIGATION

Item code	Unit	Quantity	Unit Price (\$)	Cost
20XXXX Highway Planting, Irrigation, Gravel	SQFT	393,000	x 4.00 = \$	1,572,000
<i>Subtotal Landscape and Irrigation</i>				\$ 1,572,000

5C - EROSION CONTROL

Item code	Unit	Quantity	Unit Price (\$)	Cost
<i>Subtotal Erosion Control</i>				\$ -

5D - NPDES

Item code	Unit	Quantity	Unit Price (\$)	Cost
130300 Prepare SWPPP	LS	1	x 14,400.00 = \$	14,400
130100 Job Site Management	LS	1	x 98,500.00 = \$	98,500
130330 Storm Water Annual Report	EA	3	x 2,000.00 = \$	6,000
130520 Temporary Hydraulic Mulch	SQYD		x = \$	-
130505 Move-In/Move-Out (Temporary Erosion Control)	EA		x = \$	-
130640 Temporary Fiber Roll	LF		x = \$	-
130900 Temporary Concrete Washout	LS		x = \$	-
130710 Temporary Construction Entrance	EA		x = \$	-
130610 Temporary Check Dam	LF		x = \$	-
130620 Temporary Drainage Inlet Protection	EA		x = \$	-
130730 Street Sweeping	LS	1	x 37,900.00 = \$	37,900
131201 Temporary Creek Diversion Systems	LS		x = \$	-
160110 Temporary High-Visibility Fence	LF		x = \$	-
XXXXXX Temp Site BMPs (1.25% Escalated Construction Cost)	LS	1	x 1,000,000.00 = \$	1,000,000
<i>Subtotal NPDES</i>				\$ 1,156,800

TOTAL ENVIRONMENTAL	\$ 2,753,800
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Supplemental Work for NPDES

066595 Water Pollution Control Maintenance Sharing*	LS	1	x 14,400.00 = \$	14,400
066596 Additional Water Pollution Control**	LS	1	x 6,000.00 = \$	6,000
<i>Subtotal Supplemental Work for NDPS</i>				\$ 20,400

SECTION 6: TRAFFIC ITEMS**6A - Traffic Electrical**

Item code	Unit	Quantity	Unit Price (\$)	Cost
860460 Lighting and Sign Illumination (Roadway Lighting)	LS	1	x 99,000.00 = \$	99,000
860460 Lighting and Sign Illumination (City Lighting, Monroe Street)	LS	1	x 117,000.00 = \$	117,000
86110X Ramp Metering System (WB and EB On-Ramp's)	EA	2	x 100,000.00 = \$	200,000
86070X Interconnection Conduit and Cable	LS	1	x 100,000.00 = \$	100,000
XXXXXX Removal of Electrical Equipment	LS	1	x 300,000.00 = \$	300,000
XXXXXX Proposed Traffic Signal	EA	2	x 250,000.00 = \$	500,000
XXXXXX Traffic Signal Modification	EA	1	x 75,000.00 = \$	75,000
XXXXXX Communication	LS	1	x 200,000.00 = \$	200,000
XXXXXX Overhead Signs	EA	8	x 120,000.00 = \$	960,000
XXXXXX Relocate/Upgrade CCTV	EA	1	x 20,000.00 = \$	20,000
<i>Subtotal Traffic Electrical</i>				\$ 2,472,000

6B - Traffic Signing and Striping

Item code	Unit	Quantity	Unit Price (\$)	Cost
566011 Roadside Signs	LS	1	x 300,000.00 = \$	300,000
120090 Construction Area Signs	LS	1	x 20,000.00 = \$	20,000
84XXXX Permanent Pavement Delineation	LS	1	x 150,000.00 = \$	150,000
<i>Subtotal Traffic Signing and Striping</i>				\$ 470,000

6C - Traffic Management Plan

Item code	Unit	Quantity	Unit Price (\$)	Cost
XXXXXX TMP Elements 2, 5, and 6	LS	1	x \$ 183,000 = \$	183,000
<i>Subtotal Traffic Management Plan</i>				\$ 183,000

6D - Stage Construction and Traffic Handling

Item code	Unit	Quantity	Unit Price (\$)	Cost
120100 Traffic Control System (Construction)	LS	1	x 700,000.00 = \$	700,000
XXXXXX Temporary Traffic Handling	LS	1	x 50,000.00 = \$	50,000
XXXXXX Temporary Traffic Signal	EA	4	x 75,000.00 = \$	300,000
<i>Subtotal Stage Construction and Traffic Handling</i>				\$ 1,050,000

TOTAL TRAFFIC ITEMS	\$ 4,175,000
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SECTION 7: DETOURS

Includes constructing, maintaining, and removal

Item code	Unit	Quantity	Unit Price (\$)	Cost
TOTAL DETOURS				\$ -
SUBTOTAL SECTIONS 1 through 7				\$ 27,786,600

SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items

ADA Items

0.0% \$ -

8B - Bike Path Items

Bike Path Items

0.0% \$ -

8C - Other Minor Items

Other Minor Items

1.0% \$ 277,866

Total of Section 1-7 \$ 27,786,600 x 1.0% = \$ 277,866

TOTAL MINOR ITEMS	\$ 277,900
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SECTIONS 9: MOBILIZATION

Item code	Unit	Quantity	Unit Price (\$)	Cost
999990		Total Section 1-8	\$ 28,064,500 x 10%	= \$ 2,806,450
TOTAL MOBILIZATION				\$ 2,806,500

SECTION 10: SUPPLEMENTAL WORK

Item code	Unit	Quantity	Unit Price (\$)	Cost
066670	LS	1	x 31,300.00	= \$ 31,300
066070	LS	1	x 313,200.00	= \$ 313,200
066919	LS	1	x 22,500.00	= \$ 22,500
066921	LS	1	x 22,500.00	= \$ 22,500
066015	LS	1	x 28,000.00	= \$ 28,000
066610	LS	1	x 70,000.00	= \$ 70,000
066861	LS	1	x 15,000.00	= \$ 15,000
<i>Cost of NPDES Supplemental Work specified in Section 5D</i>				<u>= \$ 20,400</u>
		Total Section 1-8	\$ 28,064,500	2.0% = \$ 561,290
TOTAL SUPPLEMENTAL WORK				\$ 1,084,200

SECTION 11: STATE FURNISHED MATERIALS AND EXPENSES

Item code		Unit	Quantity		Unit Price (\$)	=	Cost
066105	Resident Engineers Office	LS	1	x	560,500.00	=	\$560,500
066063	TMP Public Information (Element 1)	LS	1	x	273,500.00	=	\$273,500
066062	COZEEP Contract (Twice the TMP Element 3 cost)	LS	1	x	148,800.00	=	\$148,800
066065	Freeway Service Patrol for Construction (CFSP) (TMP Element 3)	LS	1	x	14,573.00	=	\$14,573
XXXXXX	Signal Controller Assembly	LS	1	x	50,000.00	=	\$50,000
XXXXXX	Other Incident Management (TMP Element 3)	LS	1	x	50,000.00	=	\$50,000
Total Section 1-8			\$ 28,064,500		2%	=	\$ 561,290

TOTAL STATE FURNISHED	\$1,658,700
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SECTION 12: TIME-RELATED OVERHEAD

Total of Roadway and Structures Contract Items excluding Mobilization \$45,950,078 (used to calculate TRO)
 Total Construction Cost (excluding TRO and Contingency) \$52,959,525 (used to check if project is greater than \$5 million excluding contingency)

Estimated Time-Related Overhead (TRO) Percentage (0% to 10%) = **10%**

Item code		Unit	Quantity		Unit Price (\$)	=	Cost
070018	Time-Related Overhead	WD	500	X	\$9,190	=	\$4,595,100

TOTAL TIME-RELATED OVERHEAD	\$4,595,100
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Note: If the building portion of the project is greater than 50% of the total project cost, then TRO is not included.

SECTION 13: ROADWAY CONTINGENCY

Recommended Contingency : (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)
 Total recommended percentages includes any quantified risk based contingency from the risk register.

Total Section 1-12 \$ 38,209,000 x **15%** = \$5,731,350

TOTAL CONTINGENCY	\$5,731,400
--------------------------	--------------------

II. STRUCTURE ITEMS

	<u>Bridge 1</u>		<u>Bridge 2</u>		
DATE OF ESTIMATE	09/28/18		12/04/18		00/00/00
Bridge Name	Monroe Street Overcrossing		Monroe Street Over the Whitewater River		XXXXXXXXXXXXXXXXXXXX
Bridge Number	56CXXXX		56CXXXX		57-XXX
Structure Type	CIP/PS Conc Box Girder		CIP/PS Box		XXXXXXXXXXXXXXXXXXXX
Width (Feet) [out to out]	123 LF		110.5 LF		0 LF
Total Bridge Length (Feet)	250 LF		489.75 LF		0 LF
Total Area (Square Feet)	30778 SQFT		54117 SQFT		0 SQFT
Structure Depth (Feet)	5.50 LF		6.58 LF		0 LF
Footing Type (pile or spread)	Pile		Pile		XXXXXXXXXXXXXXXXXXXX
Cost Per Square Foot	\$179		\$168		\$0
COST OF EACH	\$5,498,935		\$9,101,537		\$0

DATE OF ESTIMATE	00/00/00		00/00/00		00/00/00
Name	XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX
Bridge Number	57-XXX		57-XXX		57-XXX
Structure Type	XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX
Width (Feet) [out to out]	0 LF		0 LF		0 LF
Total Length (Feet)	0 LF		0 LF		0 LF
Total Area (Square Feet)	0 SQFT		0 SQFT		0 SQFT
Structure Depth (Feet)	0 LF		0 LF		0 LF
Footing Type (pile or spread)	XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX
Cost Per Square Foot	\$100		\$0		\$0
COST OF EACH	\$0		\$0		\$0

TOTAL COST OF BRIDGES	\$14,600,472
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TOTAL COST OF BUILDINGS	\$0
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Structures Mobilization Percentage	10%	\$1,460,047
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Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)
 Total recommended percentages includes any quantified risk based contingency from the risk register.

Structures Contingency Percentage	20%	\$2,920,094
Additional Aesthetic Treatment (2.5%)	2.5%	\$365,012

TOTAL COST OF STRUCTURES	\$19,345,625
---------------------------------	---------------------

Bridge 1 - Kevin Michalski (Parsons)

Estimate Prepared By: Bridge 2 - Kyle Turner(Michael Baker International)

As Noted

Date

III. RIGHT OF WAY

Fill in all of the available information from the Right of Way data sheet.

A)	A1)	Acquisition, including Excess Land Purchases, Damages & Goodwill, Fees	\$	2,969,861
	A2)	SB-1210	\$	0
B)		Acquisition of Offsite Mitigation	\$	0
C)	C1)	Utility Relocation (State Share)	\$	0
	C2)	Potholing (Design Phase)	\$	0
D)		Railroad Acquisition	\$	0
E)		Clearance / Demolition	\$	0
F)		Relocation Assistance (RAP and/or Last Resort Housing Costs)	\$	0
G)		Title and Escrow	\$	0
H)		Environmental Review	\$	0
I)		Condemnation Settlements	\$	312,500
		<u>0%</u>		
J)		Design Appreciation Factor	\$	0
		<u>0%</u>		
K)		Utility Relocation (Construction Cost)	\$	2,354,640

L)

TOTAL RIGHT OF WAY ESTIMATE	\$5,637,001
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M)

TOTAL R/W ESTIMATE: Escalated	\$6,816,000
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Amount provided from r/w data sheet.

N)

RIGHT OF WAY SUPPORT	\$502,000
-----------------------------	------------------

Support Cost Estimate Prepared By Patti Feist (760) 899-5569
Project Coordinator¹ Phone

Utility Estimate Prepared By Jerusalem Verano (909) 974-4938
Utility Coordinator² Phone

R/W Acquisition Estimate Prepared By Patti Feist (760) 899-5569
Right of Way Estimator³ Phone

Note: Items G & H applied to items A + B

¹ When estimate has Support Costs only

² When estimate has Utility Relocation

³ When R/W Acquisition is required

Right-of-Way Data Sheet
Alternative 2 - Preferred Alternative

Attachment F

To: Rebecca Guirado
District Division Chief
Division of Right of Way and Land Surveys

Date: 04/15/2020

Attn: Milele Robertson
Senior Right of Way Agent
R/W Local Programs

Co. Riv Rte. 10
Expense Authorization 08-0K730

Subject: **RIGHT OF WAY DATA SHEET – LOCAL PUBLIC AGENCIES**

Project Description: I-10 / Monroe Street Interchange Project - Alt 2 Tight Diamond Interchange

Right of way necessary for the subject project will be the responsibility of **The City of Indio**.

The information in this data sheet was developed by **Overland, Pacific & Cutler, LLC**. (in collaboration with **Michael Baker International, Inc.** company)

I. Right of Way Engineering

Will Right of Way Engineering be required for this project?

- No
- Yes (If yes, submit a copy of the *Right of Way Engineering Surveys and Mapping Services checklist for Locally Funded Projects*. This checklist includes, but is not limited to, the following items.)
 - Hard copy (base map)
 - Appraisal map
 - Acquisition documents
 - Property Transfer Documents
 - R/W Record Map
 - Record of Survey

II. Engineering Surveys

1. Is any surveying or photogrammetric mapping required?
No Yes if yes, complete the following:

Photogrammetric mapping was completed during the PA/ED phase based on control established by Riverside County Surveyor's Office. The photogrammetric mapping has not been through the ABC Caltrans process. However, the photogrammetric mapping was completed in conformance with the "ABC Caltrans" process and the "Caltrans District 8 Right of Way Engineering Quality Assurance Plan for the Preparation of Documents and Maps". Milestone A, B and C are deemed complete and all photogrammetric mapping data has been delivered to Caltrans. Photogrammetric mapping and engineering surveying will be once again initiated during the PS&E phase as required.

2. Datum Requirements

Yes Project will adhere to the following criteria:

- Horizontal - datum policy is CCS 83, NAD 83 (NSRS 2011), EPOCH 2010.
- Vertical - datum policy is NAVD 88.
- Units – Feet US.

3. Will land survey monument perpetuation be scoped into the project, if required?

Yes

No Provide explanation on additional page.

III. Parcel Information (Land and Improvements)

Are there any property rights required within the proposed project limits?

No Yes (Complete the following.)

	Part Take	Full Take	Estimate \$
A. Number of Vacant Land Parcels**	3		\$2,544,000
B. Number of Single Family Residential Units	0		
C. Number of Multifamily Residential Units	0		
D. Number of Commercial/Industrial Parcels	0		
E. Number of Farm/Agricultural Parcels	0		
F. Permanent and/or Temporary Easements**	8		\$261,000
G. Other Parcels (define in "Remarks" section)**	1		\$646,000
Totals*	12		\$3,461,000

* Costs include 25% contingency & escalated for 3.25 years at 6% per year.

**Multiple parcels that have same owner, same use and adjacent are combined into a larger parcel.

Provide a general description of the right of way and excess lands required (zoning, use, improvements, critical, or sensitive parcels, etc.).

For this project, right of way required for acquisition includes approximately 652,200 square feet of Temporary Construction Easement (TCE), approximately 51,000 square feet of Permanent Easement (PE) and approximately 108,000 square feet of fee is required. The impacted properties are commercial, industrial and storm channel property types, impacting 14 assessor's parcel lots. In two instances, two properties are owned by the same owner and are considered a larger parcel. Therefore, there is 12 impacted properties.

APN 610-330-003 (RJ Ventures) This parcel was previously assumed vacant. Upon this review, we have confirmed the property to currently be improved with a Starbucks drive-thru. It is assumed that the drive-

thru and the monument sign and landscaping is not impacted by the proposed TCE, however, further analysis of the impacts is required.

APN 610-330-027 (Lowe's Hiw Inc) Assumed partial acquisition impacts a medium size monument sign (Walmart) with ornamental design features and its solar panel system. Further analysis required.

APN 610-101-025 (43430 Monroe St) - Assumed parking stalls, light poles, and one monument sign, and palm trees within the TCE area along Monroe St are protected in place and fully accessible/usable during construction. Assumed access is maintained during construction. Further analysis required.

APN 610-070-042 (43441 Monroe St) - Assumed structure is protected in place. Assumed access is maintained during construction and privately-owned improvements within the TCE area are protected in place or replaced in kind by the contractor/project. Further analysis required.

APN 610-070-041 (43411 Monroe St) Assumed access is maintained during construction; assumed sufficient turn radius and traffic circulation is provided during construction. Assumed privately owned improvements within the TCE to include a sign and landscaping is protected in place or replaced in kind by the contractor/project. Further analysis required.

APN 610-070-040 (43401 Monroe St) - Assumed structure is protected in place. Assumed access is maintained during construction. Assumed privately owned improvements within the TCE, including signs and landscaping improvements are protected in place or replaced in kind by the contractor/project. Further analysis required.

IV. Dedications

Are there any property rights which have been acquired, or anticipate will be acquired, through the "dedication" process for the Project?

No Yes (Complete the following.)

Number of dedicated parcels 0

Have the dedication parcel(s) been accepted by the municipality involved?

There are no dedications anticipated by surrounding developers / property owners.

V. Excess Lands/Relinquishments

Are there Caltrans property rights which may become excess lands or potential relinquishment areas?

No Yes (Provide an explanation on additional page.)

VI. Relocation Information

Are relocation displacements anticipated?

No Yes (Complete the Following.)

A. Number of Single-Family Residential
Units Estimated RAP Payments _____

B. Number of Multifamily Residential Units _____

Estimated RAP Payments	_____	_____
C. Number of Business/Nonprofit	_____	_____
Estimated RAP Payments	_____	_____
D. Number of Farms	_____	_____
Estimated RAP Payments	_____	_____
E. Other (define in the "Remarks" section)	_____	_____
Estimated RAP Payments	_____	_____
Total	_____	_____

No property relocation is anticipated for this project.

VII. Utility Relocation Information

Do you anticipate any utility facilities or utility rights of way to be affected?

No Yes (Complete the following.)

	Facility	Owner	Estimated Relocation Expense		
			State Obligation*	Local Obligation	Utility Owner Obligation
A	Gas	SCG		\$1,216,200	
B	Sewer	VSD		\$20,000	
C	Water	IWA		\$356,000	
D	Electric	IID		\$370,000	
	Sub Total			\$1,912,200	
	Contingency (20%)			\$392,440	
	Total			\$2,354,640	
	Number of Facilities	4			

*This amount reflects the estimated total financial obligation by the State.

Any additional information concerning utility involvement on this project?

6" gas line cost provided by SoCal Gas on Sept. 25, 2018. VSD 8" sewer line is assumed to remain in place with two (2) manhole adjustments

VIII. Rail Information

Are railroad facilities or railroad rights of way affected?

No Yes (Complete the following.)

Describe the railroad facilities to be affected.

Owner's Name	Transverse Crossing	Longitudinal Encroachment
A.		
B.		
C.		
D.		

Discuss types of agreements and rights required from railroads. Are grade crossings that require services contracts, or grade separations that require construction and maintenance agreements involved?

IX. Clearance Information

Are there improvements that require clearance?

No Yes (Complete the following.)

A. Number of structures to be Demolished 0
 Estimated Cost of Demolition \$0

Demolition of structures within proposed right of way is not anticipated as part of this project.

X. Hazardous Materials/Waste

Are there any site(s) and/or improvements(s) in the Project Limits that are known to contain hazardous materials? None Yes (Explain in the "Remarks" section.)

Are there any site(s) and or improvement(s) in the Project Limits that are suspected to contain hazardous waste? None Yes (Explain in the "Remarks" section.)

XI. Project Scheduling

	Proposed lead time		Completion Date
* Preliminary Engineering Surveys	3	months	01/15/2021
* R/W Engineering Submittals	5	months	06/30/2021
* R/W Appraisals/Acquisition	24	months	12/31/2022
Proposed Environmental Clearance	7	months	08/01/2020
Proposed R/W Certification	6	months	06/01/2023

XII. Proposed Funding

	Local	State	Federal	Other
Acquisition	\$3,461,000			
Utilities	\$2,847,000			
Relocation Assistance Program				
Loss of Business Goodwill				
Structures Testing + Demolition				
Condemnation	\$378,000			
R/W Support Cost*	\$502,000			
TOTAL	\$7,188,000			
COMBINED TOTAL		\$7,188,000		

The proposed funding allocation above is conceptual based upon preliminary discussions with the project team. Acquisition and R/W support cost include 25% contingency & escalated for 3.25 years at 6% per year.

*The R/W Support Costs may change based on who will perform these services and the costs for their services.

XIII. Remarks

- Section III, "Other" parcel is CVWD parcel.
- Section X, Hazardous Material: Asbestos is believed to be present
- Section X, Hazardous Waste: Hazardous may be present as a result of automotive use.
- Section X, Hazardous Waste: Residual herbicide/pesticide contamination in on-site surface soils is likely to be present on subject sites - APNs 610-330-027, 610-093-037, 610-020-034, and 610-020-036

Project Sponsor Consultant
Prepared by:



Patti Feist
Project Manager
Overland, Pacific & Cutler, LLC.

Project Sponsor
Reviewed and Approved by:



John Ashlock
Project Manager
Riverside County Transportation Department

04/27/2020


Date

04/28/2020

Date

EA/Project ID: 08-0K730 / 08-00000368

The Right-of-Way Data Sheet was completed by the City and/or its consultants. I have reviewed the right-of-way information contained therein and find the data to be complete as to form and procedures only and consistent with the project as scoped and approved in the project environmental documents. No inferences or assertions are made as to the validity of the data or values implied by the right of way data sheets.


Milele Robertson
Senior Right of Way Agent
Local Programs

4/28/2020
Date

1. Name of utility companies involved in project:
- SoCal Gas (SCG)
 - Ventura Sanitary District (VSD)
 - Imperial Irrigation District (IID)
 - Coachella Valley Water District (CVWD)
 - Indio Water Authority (IWA)

2. Types of facilities and agreements required:

FACILITY TYPES AND AGREEMENTS			
Utility Company/Owner	Utility Type	Agreement Required	Notes
SCG	6" Gas Lines	Yes	Relocate two (2) existing gas lines from existing bridge to new bridge.
VSD	8" Sewer Line	Yes	Adjust existing manholes to grade.
IID	Overhead Line	No	Protect in place.
IID	Electric Line	Yes	Relocate existing IID service structures.
IWA	12" Water Line	Yes	Relocate one (1) existing water line from existing bridge to new bridge.

Utility agreements will be required for the above utilities stated. Joint Use Agreement(S) and Consent to Common Use Agreement(S) may be required.

3. Is any facility a longitudinal encroachment in existing or proposed access controlled right of way? Explain.

No longitudinal encroachment exists.

Disposition of longitudinal encroachment(s):

Relocation required.

Exception to policy needed.

Other. Explain. – *Not applicable, no longitudinal encroachment identified or will be required for any facility.*

4. Additional information concerning utility involvements on this project, i.e., long lead time materials, growing or species seasons, customer service seasons (no transmission tower relocations in summer).

Two (2) high pressure SoCal Gas lines to be relocated from the old to new bridge are long lead time items and require special handling and potholing.

Note: The following estimate is based on preliminary plans and reports.

UTILITY RELOCATION AND POTHOLING ESTIMATE								
Utility	Utility Company	Amount to Relocate		Price		Pothole		Cost
		Est	Unit	Est	Unit	Num	Price	
6" Gas Line	SCG	3400'	LF	\$353	LF	8	2,000	\$1,216,200
8" Sewer Line	VSD	2	EA	\$10,000	EA	-	-	\$20,000
12" Water Line	IWA	1700'	LF	\$200	LF	8	2,000	\$356,000
Electric Line	IID	1	LS	\$370,000	LS	-	-	\$370,000
Subtotal								\$1,912,200
20% Contingency								\$392,440
Grand Total								\$2,354,640

NOTE: 6" gas line cost provided by SoCal Gas on Sept. 25, 2018. IID electric line cost provided by IID on October 12th, 2018. VSD 8" sewer line is assumed to remain in place with two (2) manhole adjustments.

5. PMCS Input Information

Total estimated cost of State's obligation for utility relocation on this project:

\$ 0

Note: Total estimated cost to include any Department obligation to relocate longitudinal encroachments in access controlled right of way and acquire any necessary utility easements.

Utility Involvements:

- U4-1 ____ (Total number of expected owner expense involvements)
- 2 ____ (Total number of expected State expense involvements - conventional highway, no Federal aid)
- 3 ____ (Total number of expected State expense involvements - freeway, no Federal aid)
- 4 ____ (Total number of expected State expense involvements - conventional or freeway, with Federal aid)
- U5-7 ____ (Total number of expected utility verifications, which will not result in involvements)
- 8 ____ (Total number of expected utility verifications - 50% will result in involvements and 50% will not)
- 9 ____ (Total number of expected utility verifications, which will result in involvements)

Prepared By:



Jerusalem V. Verano, PE
 Right of Way Utility Estimator

04/28/2020

Date

Storm Water Data Report (SWDR) Signed Cover Sheet

Attachment G



Dist-County-Route: 08-RIV-10
Post Mile Limits: R53.9/R55.5
Type of Work: Interchange Improvements (TDI Alternative 2)
Project ID (EA): 0800000368 (08-OK7300)
Program Identification: Local Funds/800.100/HE11
Phase: PID PA/ED PS&E

Regional Water Quality Control Board(s): Colorado River Basin Regional Water Quality Control Board (CRBRWQB) (Region 7)

Total Disturbed Soil Area: 33.35 acres (Alt. 2 within CT R/W) PCTA: 9.73 acres (Alt. 2 within CT R/W)

Alternative Compliance (acres): 0.34 acres (maximum) ATA 2 (50% Rule)? Yes No

Estimated Const. Start Date: 06/01/2023 Estimated Const. Completion Date: 06/30/2025

Risk Level: RL 1 RL 2 RL 3 WPCP Other: _____

Is MWEO applicable? Yes No

Is the Project within a TMDL watershed? Yes No

TMDL Compliance Units (acres): 8.29 acres (maximum)

Notification of ADL reuse (if yes, provide date): Yes Date: TBD No

This Report has been prepared under the direction of the following Licensed Person. The Licensed Person attests to the technical information contained herein and the date upon which recommendations, conclusions, and decisions are based. Professional Engineer or Landscape Architect stamp required at PS&E only.

8/19/2020

Nelly Lo, Registered Project Engineer Date

I have reviewed the stormwater quality design issues and find this report to be complete, current and accurate:

Martha Santana 10/2/20
Martha Santana, Project Manager Date

Joseph Solis 10/09/2020
Joseph Solis, Maintenance Stormwater Coordinator Date

Almabeth Anderson 10/12/2020
Almabeth Anderson, Designated Landscape Architect Date
Representative

[Stamp Required at PS&E only] Jon Bumps 11/6/2020
Jon Bumps, District SW Coordinator Date

AN

11/6/2020

Transportation Management Plan Data Sheet

Attachment H

TMP Elements	EA #/ID#	EA# 0K730/ID #08-0000368	Date	9/18/2019
<p>Note: A checkmark in the box means you need to include this in the project unless staging, material, or work hour changes eliminate the need for the item. A ? in front means TMP anticipates this - please check into this. A blank box means the item is not needed at this time based on the information received.</p>				

Public Affairs officer's 1st. & last name _____ Phone number _____

1	<p style="text-align: center;">Public Information/Public Awareness Campaign (PAC). Developer: Remember to obtain the estimate from Public affairs by contacting Terri Kasinga. Procedure is in the file under 3- TMP matters</p>	Estimated Cost
----------	---	-----------------------

BEES 066063 (Traffic Management Plan-Public Information). Cost to be reduced by Public Affairs (PA) and Construction Liaison (CL) only. Show under **State Furnished** as the **total** of PA+CL.

1.1	<input checked="" type="checkbox"/> Include Rideshare information in PA/CL project material to encourage vehicles reduction in work area		
1.2	<input checked="" type="checkbox"/> Brochures and Mailers	\$	15,000
1.3	<input checked="" type="checkbox"/> Media Releases (& minority media sources)	\$	12,000
1.4	<input checked="" type="checkbox"/> Paid Advertising	\$	80,000
1.5	<input checked="" type="checkbox"/> Public Meetings/PAC Mtgs./Speakers Bureau (show cost also for room rental)	\$	15,000
1.6	<input checked="" type="checkbox"/> Hand deliver notices to vicinity	\$	5,000
1.7	<input type="checkbox"/> Broadcast fax service		
1.8	<input checked="" type="checkbox"/> Telephone Hotline OR	\$	1,500
1.9	<input type="checkbox"/> 1-800-COMMUTE (The telephone number is shown on CS-Info signs) -		
1.10	<input type="checkbox"/> Visual Information (videos, slide shows, etc.)		
1.11	<input type="checkbox"/> Local cable TV and News		
1.12	<input checked="" type="checkbox"/> Traveler Information System (Internet)	\$	-
1.13	<input checked="" type="checkbox"/> Internet, E-mail, Social Media	\$	30,000
1.14	<input type="checkbox"/> Notification to targeted groups:		
	<input type="checkbox"/> Revised Transit Schedules/maps		
	<input type="checkbox"/> Rideshare organizations		
	<input type="checkbox"/> schools		
	<input type="checkbox"/> organizations representing people with disabilities		
	<input type="checkbox"/> bicycle organizations		
1.15	<input checked="" type="checkbox"/> Include PA/CL/Consultant resources in WPS	\$	100,000
1.16	<input type="checkbox"/> Commercial traffic reporters/feeds - e.g. brief Traffic Information people (TIP) group		
1.17	<input type="checkbox"/> Insert SSP's		
	"A representative of the Contractor, at Superintendent level or higher, and authorized to commit the Contractor, shall attend and participate in all Public Awareness Campaign meetings. Time commitment for the meeting(s) varies from two to four hours per month."		
1.18	<input checked="" type="checkbox"/> Other	\$	15,000
Section 1 Total			\$ 273,500

2	<p style="text-align: center;">Traveler Information Strategies Project team needs to coordinate with Traffic Design!</p>
2.1	<input type="checkbox"/> Existing Overhead Changeable Message Signs (Stationary)
	<input type="checkbox"/> New Installation (Stationary) - BEES 860532 CHANGEABLE MESSAGE SIGN SYSTEM - list locations

2.2	<input checked="" type="checkbox"/> Portable Changeable Message Signs (PCMS) - BEES 066578		
	This strategy is in addition to Traffic Design's PCMS for regular traffic handling within the project limits and is used for advising motorists to divert at <u>remote advance decision points</u> - outside the usual project limits. This also allows for advanced motorist information - e.g. a week ahead. Their placement may need to be cleared environmentally . Placement should be of sufficient distance prior to decision points as determined by the Resident Engineer.		
	# of PCMS <input type="text" value="4"/>	Unit cost/month <input type="text" value="\$ 1,000.00"/>	Months needed <input type="text" value="18"/>
			\$ 72,000

2.3	<input checked="" type="checkbox"/> Lane Closure System Website		
2.4	<input checked="" type="checkbox"/> Caltrans Highway Information Network (CHIN)		
2.5	<input type="checkbox"/> Radar Speed Message Sign (Specter sign) BEES 066064 (approx. EA @ \$30,000)		
2.6	<input type="checkbox"/> Bicycle and pedestrian information, e.g. Detour maps		
2.7	<input type="checkbox"/> Automated Workzone Information System (AWIS) BEES 120105 - consult with TMP Developer prior to updating SSP 12-3.35A(1) for AWIS - refer to Section 12-3.35, page 156 to 158 of the 2015 Standard Spec.		
2.8	<input checked="" type="checkbox"/> Other	\$	66,000

TMP Elements	EA #/ID#	EA# 0K730/ID #08-00000368	Date	9/18/2019
			Section 2 Total	\$ 138,000

3 Incident Management

3.1 CHP's Construction or Maintenance Zone Enhanced Enforcement Program – COZEEP or MAZEEP. BEES 066062 - show under "State or Agency furnished" in the Cost Estimate.

Make sure to consider the LC hours and add CHP driving time to/from their office

Day COZEEP: To protect active closures

hours/day	CHP vehicles	# of officers.	Rate/Hr.	
40	9	1	\$ 100	\$ 36,000

Night COZEEP: To protect active closures

# of nights	hours/night	CHP vehicles	# of officers. Nights need 2 per car	Rate/Hr.	
24	8	1	2	\$ 100	\$ 38,400

3.2 **Freeway Service Patrol (FSP) for Construction (CFSP)** \$/hr./truck \$55

BEES 066065 - show under "State or Agency furnished" in the Cost Estimate

Short duration or remote area CFSP usually is bid with much higher hourly rates. If enhancement of program FSP feasible, CFSP could tie into the lower long-term FSP rates.

	# of trucks	# of days	Hours per day	
A For service within the regular FSP hours				\$0
For service outside the regular FSP hours				
B Extended Peak hour coverage				\$0
C Support during night closures	1	24	8	\$10,560
D Weekend support				\$0
Local agency (SAFE) support 8% of truck cost		8%		\$845
CFSP CHP support 5% of truck cost only if within regular FSP and area		5%		\$0
Equipment/Supplies % of truck cost unless more detail available		10%		\$1,056

Consult with the Inland Empire division of CHP or the border division in the southern Riverside county to select the method which is acceptable for the B,C,D that are outside the regular FSP hours or area.

Method 1

CFSP/CHP support 20% \$2,112
20% of truck cost or

CFSP Dispatcher @

# of days	# of nights	hours	# of FSP	Rate	# of FSP vehicles	
		0		\$ 45.00		\$ -
		0				\$ -

CFSP CHP Officers (See Cozeep rate)

# of days	# of nights	hours	# of officers	Rate	# of CHP vehicles	
0	0	0	1	\$ 45.00	0	\$ -
0	0	0	2	0	0	\$ -

- Cooperative Agreement or Task Order with SAFE for \$11,405
- Task Order with CHP (State-wide Master Agreement for FSP support). for \$2,112
- Contact District FSP Coordinator for task orders.
- Service Contract
- Local Agency will arrange CFSP with SAFE
- Local Agency will arrange CFSP administration with CHP

3.2 Total \$14,573

TMP Elements		EA #/ID#	EA# 0K730/ID #08-00000368	Date	9/18/2019
3.3	<input checked="" type="checkbox"/> Other				\$ 50,000
				Section 3 Total	\$ 138,973

4 Construction Strategies

Contact DTM, at 909-383-6262, to get Delay Calculations, Lane Requirement Charts (LRC), Table Z and Special events list. Inform DTM of any concerns/commitments regarding special LC days, times, seasons, events; environmental restrictions; if work may be affected by snow and low or high temperatures. E.g. excessive heat may delay HMA operations lane openings which may increase traffic impact when vehicles overheat in the queue; etc. If traffic volumes vary significantly between seasons, consider 2 sets of LRCs to avoid CCOs.

4.1 This TMP presumes that work is planned as below. If different, TMP needs to be revised. The Project Engineer shall ensure all appropriate lane requirement charts are included.

- Off peak
- Night
- Weekend

4.2 Expected facility closures and requirements

- Flagging
- Shoulder
- Lane
- Street
- Ramp
- Connector*
- Extended Weekend Closures*
- Total Facility Closures*

*Consult with TMP developer and the DTM regarding COZEEP & other costs. Provide proposed detour and traffic diversion plans for review.

CAUTION: If the Lane Requirement Chart (LRC) for full mainline closures, of one or both directions on a highway or freeway, does not show the maximum number of allowable closures, the PS&E shall not be certified by DTM/TMP.

- 4.3 Coordinate with adjacent ongoing and planned construction projects - also on detour routes.
- 4.4 BEES 066008 Incentives
- 4.5 Strictly enforce construction CPM schedule
- 4.6 10-Min. Delay Penalty Contact DTM at 909-838-6262 for 10 Min. Delay Penalty Calculations.
- 4.7 Other

Section 4 Total	\$ -
------------------------	------

5 Demand Management (DM)

Project team needs to coordinate with RCTC/SANBAG/CVAG
Traffic diversion may increase available work hours.

- 5.1 A co-op will be executed - mentioned in PSR or PR.
 - Instead of a co-op, 15% is added to the cost of DM elements since the payment to the local agency will be routed through the contractor.
- Instead of a co-op, the local agency will make their own arrangements with RCTC/SANBAG/CVAG. PA/CL or local agency need to inform commuters through RCTC/SANBAG. Funds part of PA/CL.

- 5.2 HOV Lanes/Ramps (New or Convert)
- 5.3 Park-and-Ride Lots
- 5.4 Parking Management/Pricing (Coordination with local agency is required)
- 5.5 BEES 066067 Rideshare Promotion
- 5.6 Other

\$ 10,000

Section 5 Total	\$ 10,000
------------------------	-----------

6 Alternate Route Strategies

Caution - signed detours may require environmental clearance. Traffic diversion may increase available work hours. Please work with Traffic Design. BEES 066060 - ADDITIONAL TRAFFIC CONTROL

- 6.1 Add Capacity to Freeway connector
- 6.2 Ramp Closures
- 6.3 Temporary Highway Lanes or Shoulder Use
- 6.4 Parking Restrictions
- 6.5 Street Improvements
 - State R/W - Signals, Widen, etc.
 - Local R/W - Signals, Widen, etc. co-op or permit may be needed
- 6.6 Local Street USE - co-op or Permit may be needed
- 6.7 Traffic Control Officers (see 3.1 COZEEP)
- 6.8 Signed detour - using State routes
- 6.9 Signed detour - using local streets and roads. Coordinate with corresponding local agency.
- 6.10 Adjust signals
- 6.11 Temporary bicycle or pedestrian facilities
- 6.12 Other

\$ 25,000
\$ 10,000

Section 6 Total	\$ 35,000
------------------------	-----------

TMP Estimate

Developed by

Scott Neff

EA#/ID#

A# 0K730/ID #08-000036

Date

9/18/2019

TMP developer: Amounts under the cost column will automatically be copied from the TMP elements

TMP Elements	Cost
1. Public Information	\$273,500
2. Traveler Information Strategies	\$138,000
3. Incident Management	\$138,973
4. Construction Strategies	\$0
5. Demand Management (DM)	\$10,000
6. Alternate Route Strategies	\$35,000
Total TMP Estimate	\$ 595,473

**Final Environmental Document
(Cover/Title and Signature Sheets)**

Attachment I

INTERSTATE 10/MONROE STREET INTERCHANGE IMPROVEMENT PROJECT

CITY OF INDIO, RIVERSIDE COUNTY, CALIFORNIA
DISTRICT 8 – RIV – 10 (PM R53.9/R55.5)
EA 08-0K730
PN 0800000368

Initial Study with Mitigated Negative Declaration/Environmental Assessment with Finding of No Significant Impact



**Prepared by the
State of California, Department of Transportation**

The environmental review, consultation, and any other actions required by applicable Federal environmental laws for this project are being, or have been, carried out by Caltrans pursuant to 23 USC 327 and the Memorandum of Understanding dated December 23, 2016, and executed by FHWA and Caltrans.



November 2020

SCH # 2020050451
08-RIV-10-PM R53.9/R55.5
EA 08-0K730
PN 0800000368

Construction of interchange improvements at Interstate 10 (I-10) and Monroe Street located at Post Mile
[PM] Revised (R) 54.7, between PM R53.9 and PM R55.5 on I-10 in the
City of Indio, County of Riverside, California

**Initial Study with Mitigated Negative Declaration/
Environmental Assessment with Finding of No Significant Impact**

Submitted Pursuant to: (State) Division 13, California Public Resources Code
(Federal) 42 USC 4332(2)(C), 49 USC 303, and/or 23 USC 138

THE STATE OF CALIFORNIA
Department of Transportation

12/7/2020

Date of Approval



David Bricker
Deputy District Director
District 8 Division of Environmental Planning
California Department of Transportation
NEPA and CEQA Lead Agency

The following people may be contacted for additional information concerning this project:

Renetta Cloud
Senior Environmental Planner
California Department of
Transportation
464 W. 4th Street, MS-823
San Bernardino, CA 92401-1400

Jan Bulinski
Senior Transportation Planner
Riverside County Transportation
Department
3525 14th Street
Riverside, CA 92502
(951) 955-6859

Eric Weck
Principal Civil Engineer
City of Indio
Public Works Department
83101 Avenue 45
Indio, CA 92201

**CALIFORNIA DEPARTMENT OF TRANSPORTATION
FINDING OF NO SIGNIFICANT IMPACT (FONSI)**

FOR

**Interstate 10/Monroe Street
Interchange Improvement Project**

RIV-10-PM R53.9/R55.5

The California Department of Transportation (Caltrans) has determined that Alternative 2 will have no significant impact on the human environment. Alternative 2 would reconstruct the existing interchange along Interstate 10 at Monroe Street, within the City of Indio in Riverside County, in a tight diamond configuration. This FONSI is based on the attached Environmental Assessment (EA) and the associated Technical Studies and design documents, which have been independently evaluated by Caltrans and determined to adequately and accurately discuss the need, environmental issues, and impacts of the proposed project and appropriate mitigation measures. It provides sufficient evidence and analysis for determining that an Environmental Impact Statement is not required. Caltrans takes full responsibility for the accuracy, scope, and content of the attached EA and the associated Technical Studies and design documents.

The environmental review, consultation, and any other actions required by applicable Federal environmental laws for this project are being, or have been, carried out by Caltrans pursuant to 23 USC 327 and the Memorandum of Understanding dated December 23, 2016 and executed by FHWA and Caltrans.



David Bricker
Deputy District Director
District 8 Division of Environmental Planning
California Department of Transportation
NEPA Lead Agency

12/7/2020

Date

Mitigated Negative Declaration

Pursuant to: Division 13, Public Resources Code

Project Description

The City of Indio (City), in cooperation with the California Department of Transportation (Department) and County of Riverside, propose to reconstruct and widen Monroe Street at Interstate 10 to improve the operational performance of the Monroe Street interchange within the City limits.

Determination

The Department has prepared an Initial Study for this project and, following public review, has determined from this study that the proposed project would not have a significant effect on the environment for the following reasons:

- The proposed project would have no effect on timberlands or wetlands.
- In addition, the proposed project would have less-than-significant effects on air quality, land use, parks and recreational facilities, community character and cohesion, farmlands, growth, noise, utilities/emergency services, traffic and transportation, cultural resources, biological resources, floodplains, visual/aesthetic resources, water quality, soils, and greenhouse gas emissions.
- With the following mitigation measures incorporated, the proposed project would have less-than-significant effects on other (jurisdictional) waters and paleontological resources:

BIO-1: Permanent and temporary impacts on jurisdictional waters will be mitigated at a minimum 1:1 ratio at an approved mitigation bank, applicant-sponsored mitigation area, or on site, in consultation with the resource agencies.

PALEO-1: Prior to the commencement of ground-disturbing activities, a qualified professional paleontologist will be retained to prepare and implement a Paleontological Resources Impact Mitigation Plan (PRIMP) for the project. Full-time monitoring is recommended for construction activities (e.g., grading, excavation, ripping, trenching, etc.), in accordance with criteria set forth by the SVP (2010) and the Department (2016). Monitoring will not be required in areas of previous disturbance or as determined by the qualified paleontologist. In areas of high sensitivity, monitoring efforts can be reduced or eliminated at the discretion of the qualified paleontologist if no fossil resources are encountered after 50 percent of the excavations are completed.

Monitoring will include the visual inspection of excavated or graded areas, trench sidewalls, spoils, and any other disturbed sediment. In the event that a paleontological resource is discovered, either the paleontologist or approved onsite monitor will have the authority to temporarily divert the construction equipment around the find until it is assessed for scientific significance and collected.

Additionally, bulk sediment samples from geologic units with high paleontological resource potential will be collected and processed to determine the presence of fine-fraction fossils. McLeod (2018) reports many of the collected fossil specimens from nearby localities are small, isolated elements recovered from screen-washing sediment samples. Thus, it is recommended that

sediment samples be collected and hydroprocessed to determine the potential for small fossils.



David Bricker
Deputy District Director
District 8 Division of Environmental Planning
California Department of Transportation
CEQA Lead Agency

12/7/2020

Date

ISA Checklist
Attachment J

Initial Site Assessment (ISA) Checklist

Project Information

District 8 County Riverside Route 10 Kilometer Post (Post Miles): R53.9/R55.5 EA: 0K730

Description: Refer to Section 1.1, *Project Description*, of the 2019 Phase I ISA (page 1-1).

Is the project on the HW Study Minimal-Risk Projects List (HW1)? NO

Project Manager Rebecca Young phone # (909) 974-4976

Project Engineer Rebecca Young phone # (909) 974-4976

Project Screening

Attach the project location map to this checklist to show location of all known and/or potential HW sites identified.

1. Project Features: New R/W? YES Excavation? YES Railroad Involvement? NO
Structure demolition/modification? YES Subsurface utility relocation? YES
2. Project Setting Refer to page 3-1, Section 3.1, *Physical Setting Sources*, of the 2019 Phase I ISA.
Rural or Urban Rural
Current land uses Transportation and Vacant Land uses.
Adjacent land uses Commercial, Residential, Agricultural, and Vacant Land uses.
3. Check federal, State, and local environmental and health regulatory agency records as necessary, to see if any known hazardous waste site is in or near the project area. If a known site is identified, show its location on the attached map and attach additional sheets, as needed, to provide pertinent information for the proposed project.

Refer to Attachment A, *Phase I Initial Site Assessment Update Memorandum*, for the mapping of hazardous waste sites (please see Overview Map and Detail Map) and a discussion of hazardous waste sites on-site and in the surrounding area. As indicated in Attachment A, the lists reviewed identified no changes since the 2019 Phase I ISA. Refer to 2019 Phase I ISA, Section 3.2, *Standard Environmental Records Sources*, page 3-6, for a discussion of hazardous waste sites on-site and in the vicinity.

4. Conduct Field Inspection. Date 09-05-2018
Use the attached map to locate potential or known HW sites. Refer to Attachment A, *Phase I Initial Site Assessment Update Memorandum*, Overview Map and Detail Map, for the mapping of hazardous waste sites, and 2019 Phase I ISA, Section 4.0, *Site Reconnaissance*, page 4-1, for a discussion of the field inspection conducted on September 5, 2018.

STORAGE STRUCTURES / PIPELINES:

Underground tanks Fuel islands were observed at adjoining gasoline service stations.

Surface tanks ASTs were observed at adjoining gasoline service stations

Sumps NONE OBSERVED Ponds NONE OBSERVED

Drums NONE OBSERVED Basins NONE OBSERVED

Transformers YES Landfill NONE OBSERVED

Other A natural gas high pressure distribution pipeline is located along Monroe Street, within the boundaries of the project site.

CONTAMINATION: (spills, leaks, illegal dumping, etc.)

Surface staining NONE OBSERVED Oil sheen NONE OBSERVED

Odors NONE OBSERVED Vegetation damage NONE OBSERVED

Other NONE

HAZARDOUS MATERIALS: (asbestos, lead, etc.)

Buildings NONE Spray-on fireproofing NOT APPLICABLE

Pipe wrap NOT APPLICABLE Friable tile NOT APPLICABLE

Acoustical plaster NOT APPLICABLE Serpentine NOT APPLICABLE

Paint NOT APPLICABLE

Other I-10 bridge overcrossing and Whitewater River Bridge over the Coachella Valley Storm Water Channel.

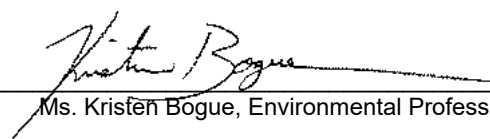
5. Additional record search, as necessary, of subsequent land uses that could have resulted in a hazardous waste site. Use the attached map to show the location of potential hazardous waste sites.

Refer to Attachment A, Phase I Initial Site Assessment Update Memorandum, for the mapping of hazardous waste sites (please see Overview Map and Detail Map) and a discussion of hazardous waste sites on-site and in the surrounding area. As depicted in Attachment A, the lists identified no changes since the 2019 Phase I ISA. The 2019 Phase I ISA identified multiple on-site properties of concern that require further evaluation.

6. Other comments and/or observations: None.

ISA Determination

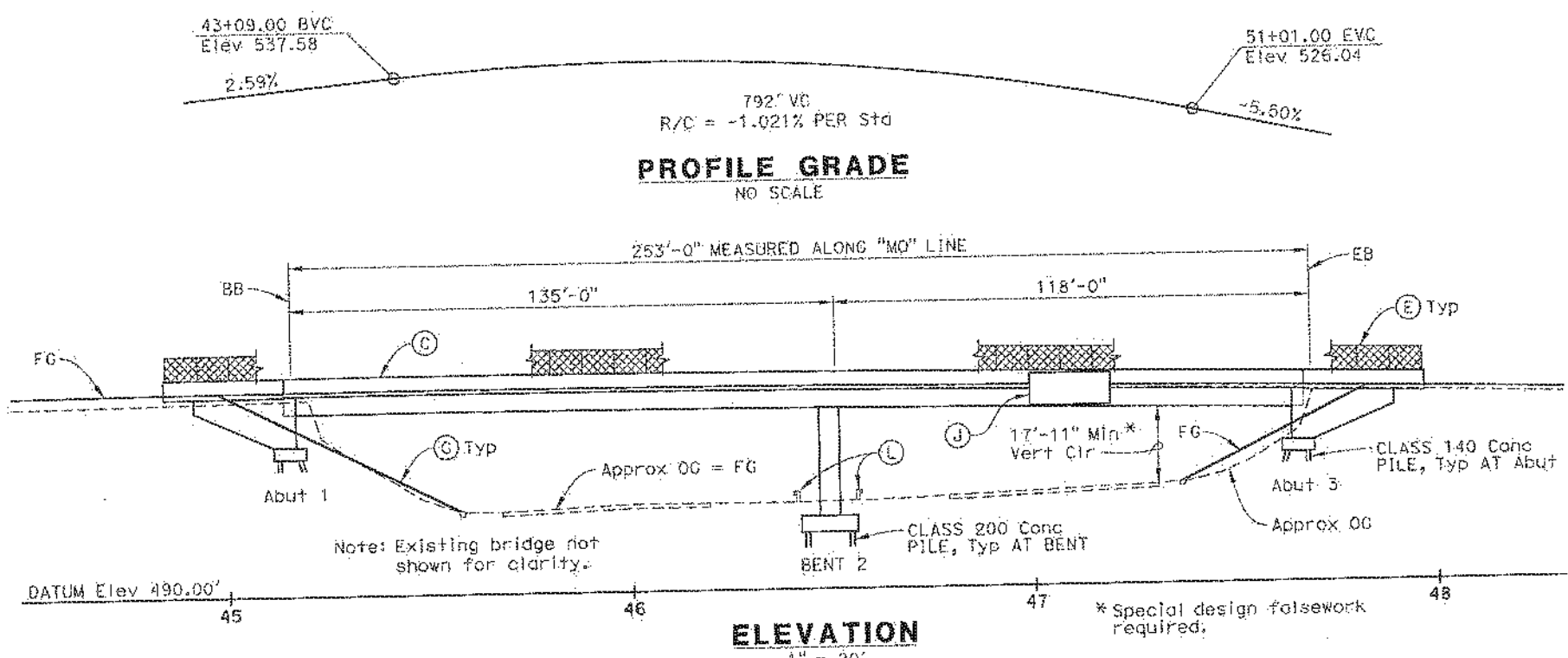
Does the project have potential hazardous waste involvement? YES If there is known or potential hazardous waste involvement, is additional ISA work needed before task orders can be prepared for the Investigation? NO If "YES," explain; then give an estimate of additional time required: NA

ISA Conducted by 
Ms. Kristen Bogue, Environmental Professional

Date 12-01-20

Advanced Planning Study General Plan
Attachment K

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	Riv	10	R53.9/R55.5
RCTD 4080 LEMON STREET RIVERSIDE, CA 92501			
PARSONS 2201 DUPONT DRIVE, SUITE 200 IRVINE, CA 92612			

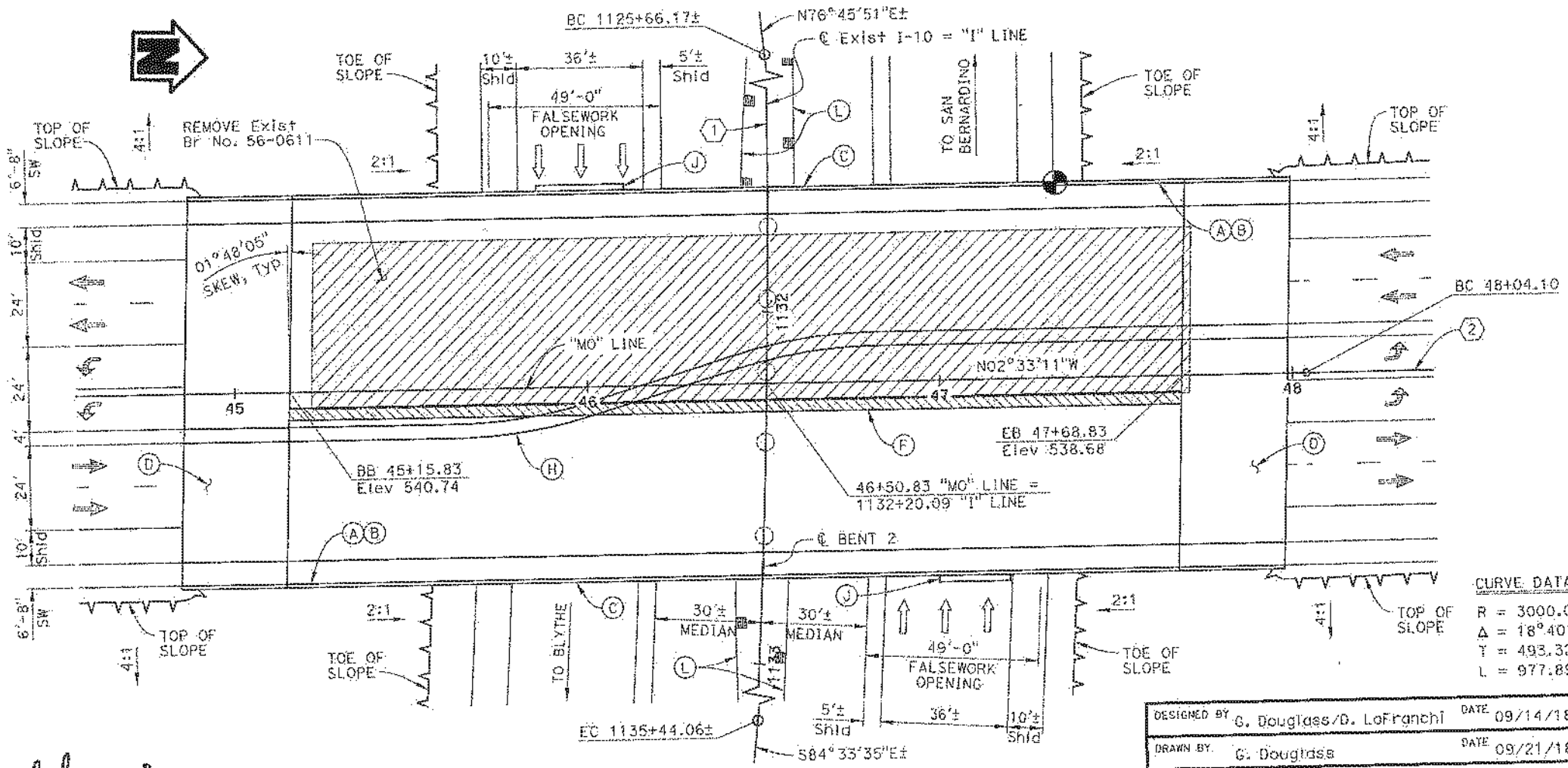


- KEY NOTES:**
- (A) Paint "MONROE STREET OC"
 - (B) Paint "Br No. 56-XXXX"
 - (C) Concrete Barrier (Type 732SW Mod)
 - (D) Structure Approach Type N (30)
 - (E) Chain Link Railing (Type 7 Mod)
 - (F) Closure Pour (3'-6")
 - (G) Slope Paving
 - (H) Striped Median
 - (J) Bridge Mounted Sign
 - (L) MGS, see "ROADWAY PLANS"
- NOTES:**
- For Typical Sections and Stage Construction, see "GENERAL PLAN NO. 2" sheet.
 - Traffic will pass thru construction site. Falsework openings are required. (15'-0" Min Temp Vert Clr Required)
 - Stage construction is required.

- LEGEND:**
- Direction of Traffic
 - Exist Structure
 - New Structure
 - Bridge Removal
 - Closure Pour
 - Point of Min Vert Clr

DATE OF ESTIMATE	=	10/17/18
STRUCTURE DEPTH	=	5'-6"
LENGTH	=	253'-0"
WIDTH	=	111'-4"
AREA	=	28,167 SF
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	\$ 264
BRIDGE REMOVAL	=	\$ 240,000
TOTAL COST	=	\$ 7,683,000

CURVE DATA ①	CURVE DATA ②
R = 3000.02'±	R = 8000.00'
Δ = 18°40'34"±	Δ = 02°33'45"±
Y = 493.32'±	T = 178.93'
L = 977.89'±	L = 357.80'

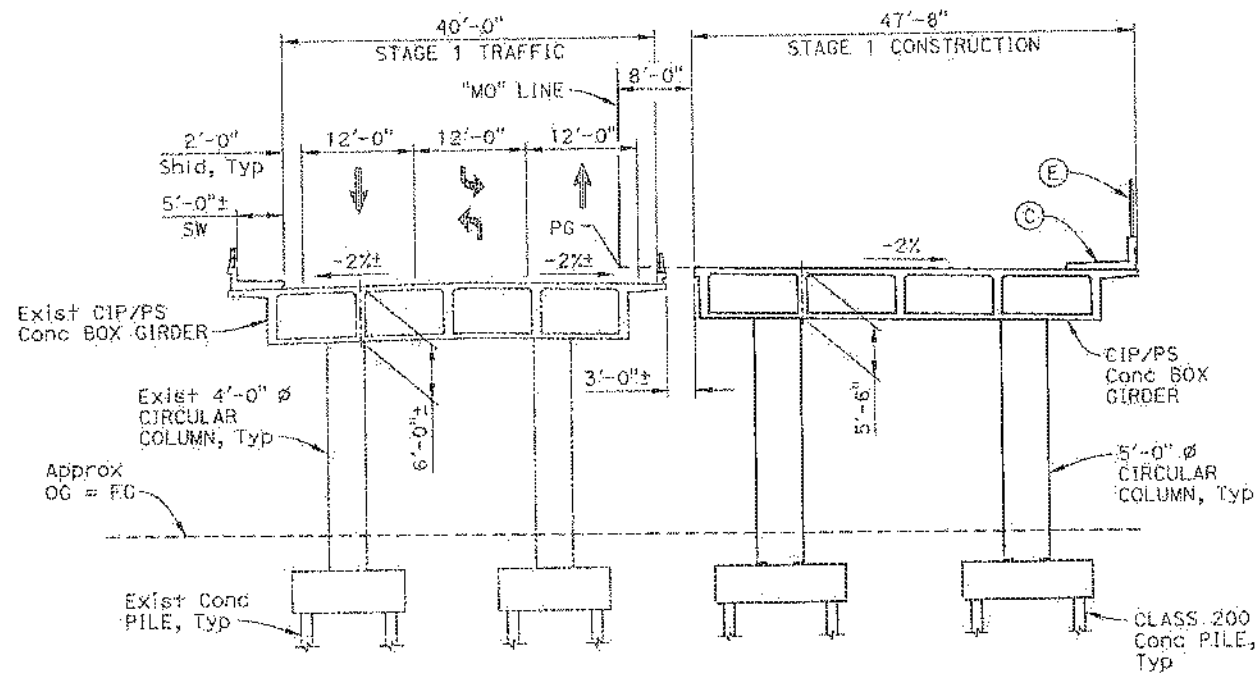


DESIGN OVERSIGHT
SIGN OFF DATE
1/7/19

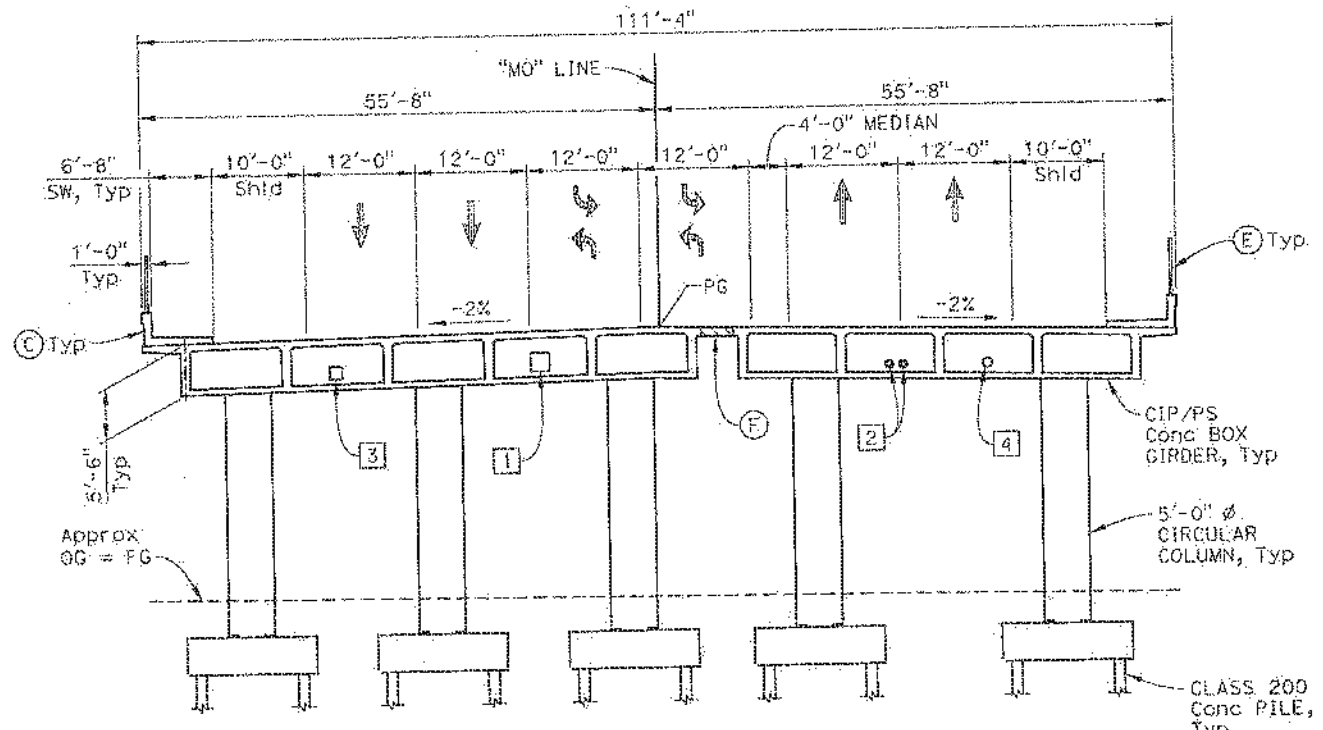
DESIGNED BY	G. Douglas/D. LaFranchi	DATE	09/14/18
DRAWN BY	G. Douglass	DATE	09/21/18
CHECKED BY	C. Weber	DATE	09/28/18
APPROVED	K. Michalski	DATE	12/05/18

K. Michalski PROJECT ENGINEER		PLANNING STUDY	
		MONROE STREET OC (REPLACE) GENERAL PLAN NO. 1	
BRIDGE NO.	56-XXXX	UNIT:	
SCALE:	A5 SHOWN	PROJECT NUMBER & PHASE:	080000368

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	Riv	10	R53.9/R55.5
RCTD 4080 LEMON STREET RIVERSIDE, CA 92501			
PARSONS 2201 DUPONT DRIVE, SUITE 200 IRVINE, CA 92612			

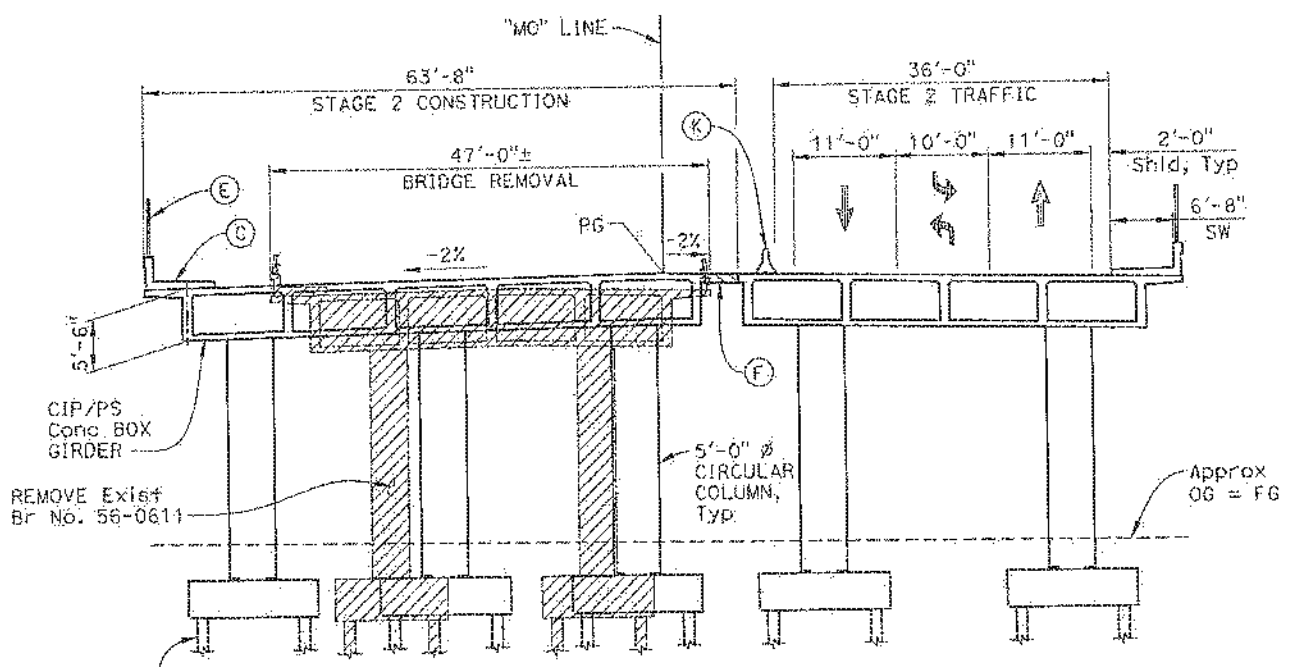


TYPICAL SECTION (STAGE 1)
1" = 10'



NOTE: All piles not shown

TYPICAL SECTION
1" = 10'



TYPICAL SECTION (STAGE 2)
1" = 10'

- KEY NOTES:**
- (C) Concrete Barrier (Type 7325W Mod)
 - (E) Chain Link Railing (Type 7 Mod)
 - (F) Closure Pour (3'-6")
 - (K) Temporary Railing (Type K), see "ROADWAY PLANS"
1. All piles not shown.

- UTILITIES:**
- 1 Future Utility Opening
 - 2 2'-6" Gas Lines in 10" Casings
 - 3 Telecommunications
 - 4 12" Water Line

- LEGEND:**
- Exist Structure
 - New Structure
 - ▨ Bridge Removal
 - ▩ Closure Pour

ALTERNATIVE 2

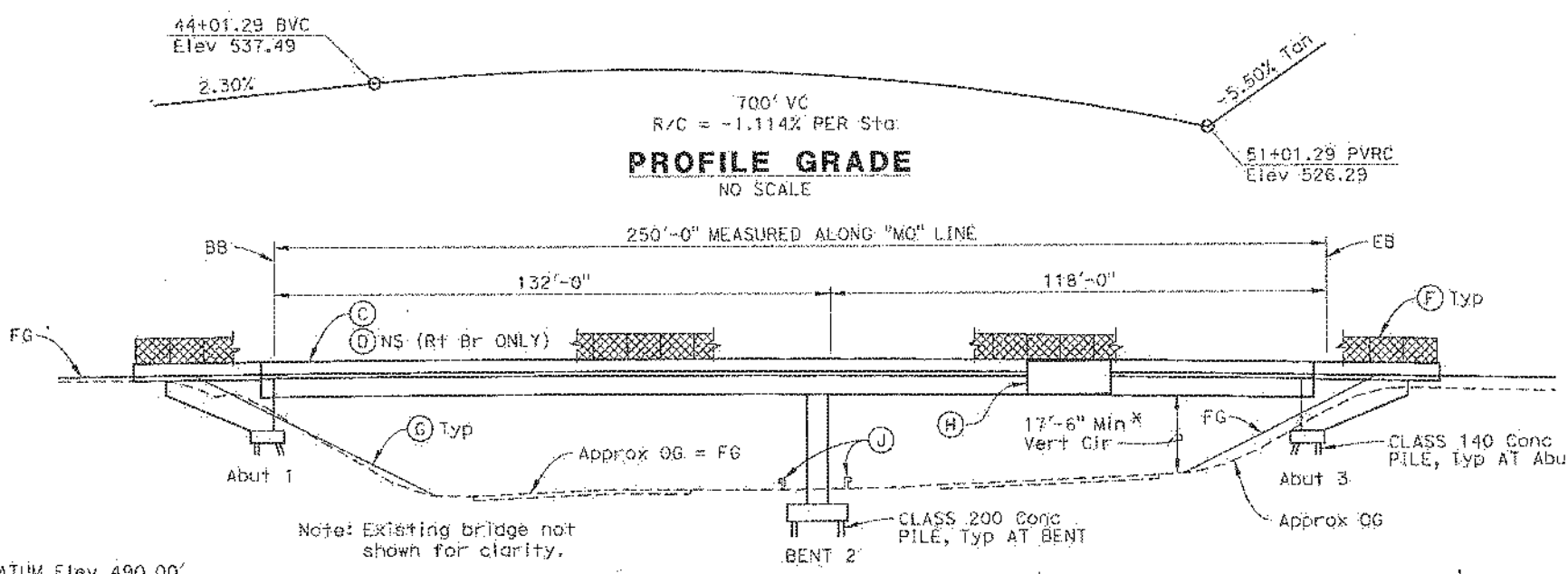
DESIGNED BY	G. Douglass/D. LaFranchi	DATE	09/14/18
DRAWN BY	G. Douglass	DATE	09/21/18
CHECKED BY	C. Weber	DATE	09/28/18
APPROVED	K. Michalski	DATE	12/05/18

PLANNING STUDY	
MONROE STREET OC (REPLACE) GENERAL PLAN NO. 2	
BRIDGE NO. 56-XXXX	UNIT:
SCALE: AS SHOWN	PROJECT NUMBER & PHASE: 080000368

DESIGN OVERSIGHT

 SIGN OFF DATE: 1/7/19

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	Riv	10	R53.9/R55.5
RCTD 4080 LEMON STREET RIVERSIDE, CA 92501			
PARSONS 2201 DUPONT DRIVE, SUITE 200 IRVINE, CA 92612			



- KEY NOTES:**
- (A) Point "MONROE STREET OC"
 - (B) Point "Br No. 56-XXXX L/R"
 - (C) Concrete Barrier (Type 732SW Mod)
 - (D) Concrete Barrier (Type 836)
 - (E) Structure Approach Type N (30)
 - (F) Chain Link Railing (Type 7 Mod)
 - (G) Slope Paving
 - (H) Bridge Mounted Sign
 - (J) MGS, see "ROADWAY PLANS"
- NOTES:**
1. For Typical Sections and Stage Construction, see "GENERAL PLAN NO. 2" sheet.
 2. Traffic will pass thru construction site. Falsework openings are required. (15'-0" Min Temp Vert Clr Required)
 3. Stage construction is required.

LEGEND:

- Direction of Traffic
- Exist Structure
- New Structure
- Bridge Removal
- Point of Min Vert Clr

DATE OF ESTIMATE = 10/17/18

STRUCTURE DEPTH = 5'-6"

LENGTH = 250'-0"

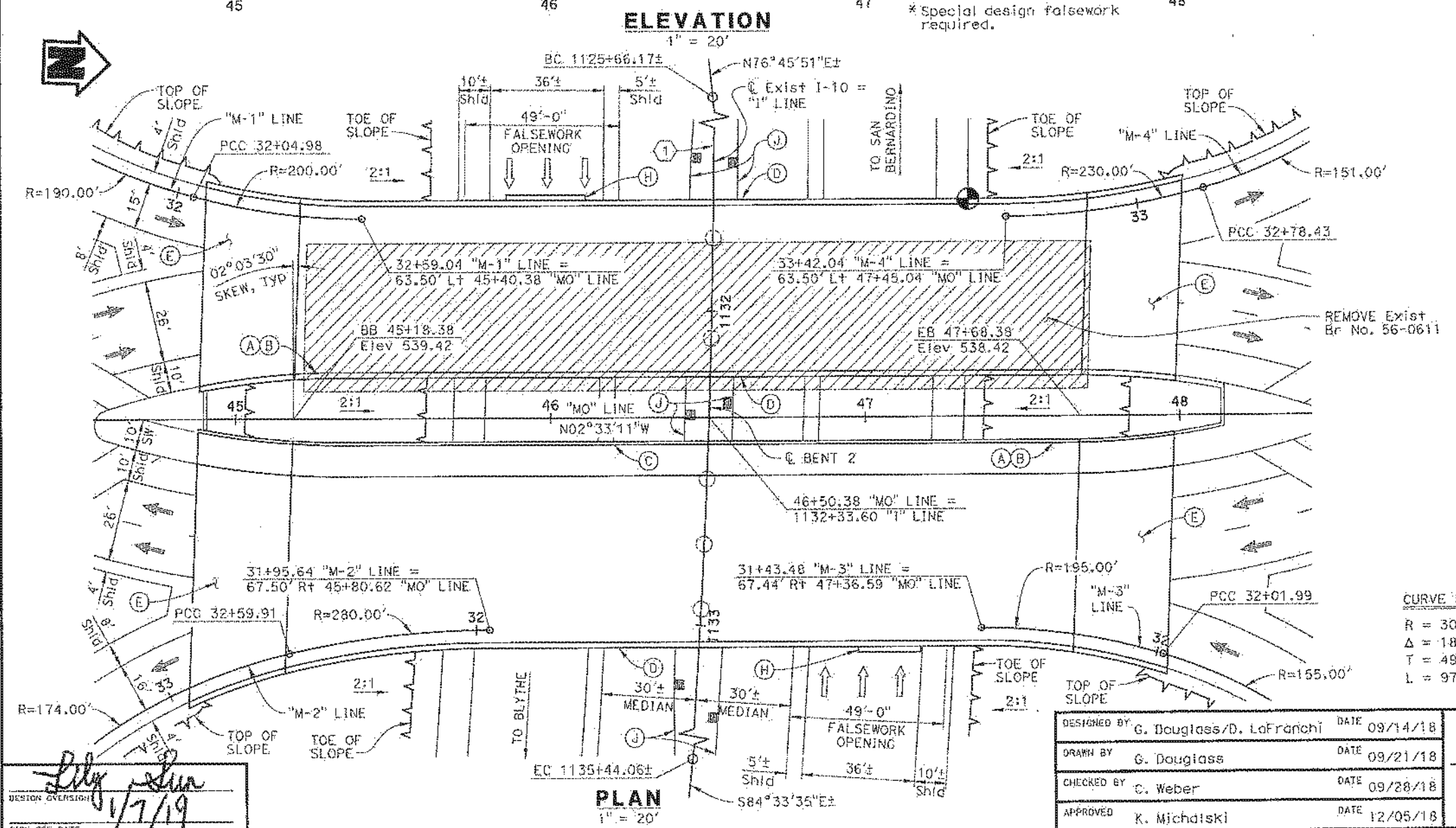
WIDTH = 122'-3" Min & Var

AREA = 30,777 SF

COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY = \$ 270

BRIDGE REMOVAL = \$ 240,000

TOTAL COST = \$ 8,557,000



CURVE DATA (1)

R = 3000.02'±

Δ = 18°40'34"±

T = 493.32'±

L = 977.89'±

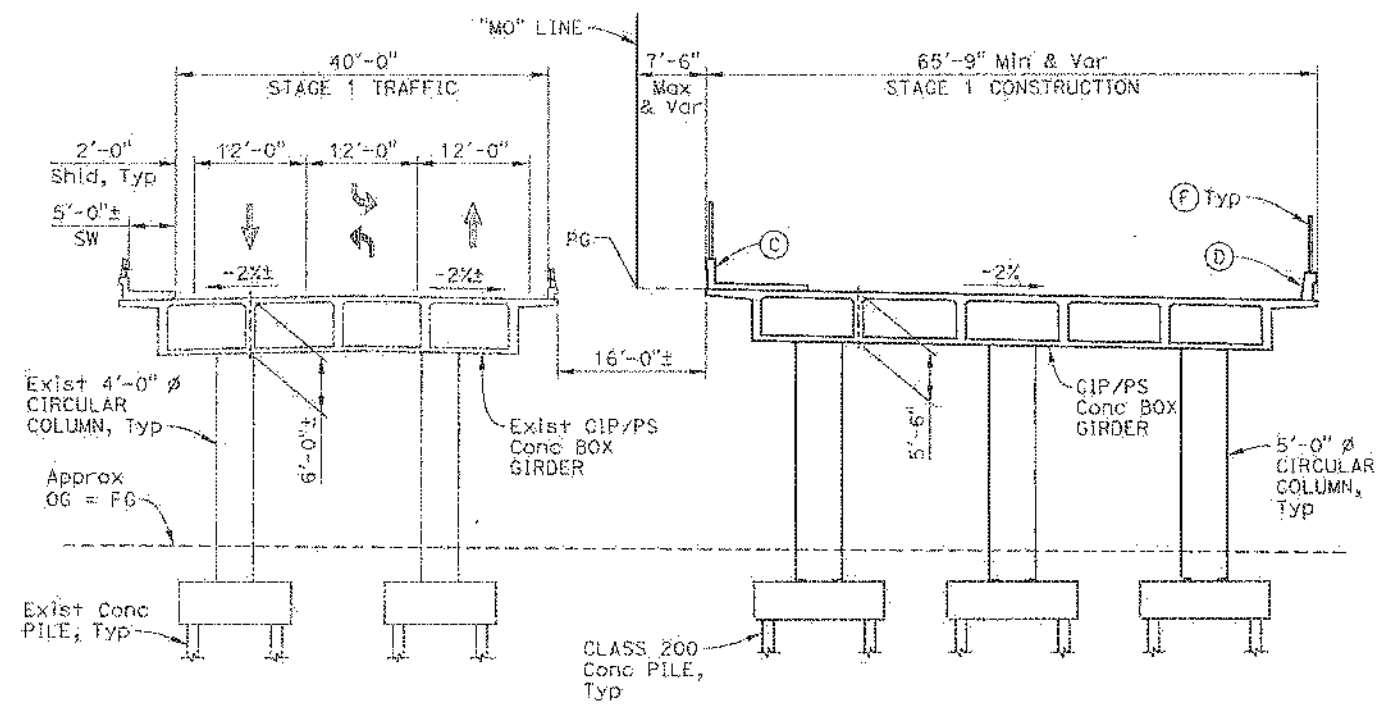
DESIGNED BY: G. Douglass/D. LaFranchi	DATE: 09/14/18	K. Michalski PROJECT ENGINEER
DRAWN BY: G. Douglass	DATE: 09/21/18	
CHECKED BY: C. Weber	DATE: 09/28/18	
APPROVED: K. Michalski	DATE: 12/05/18	

PLANNING STUDY	
MONROE STREET OC (REPLACE) GENERAL PLAN NO. 1	
BRIDGE NO. 56-XXXX L/R	UNIT:
SCALE: AS SHOWN	PROJECT NUMBER & PHASE: 080000368

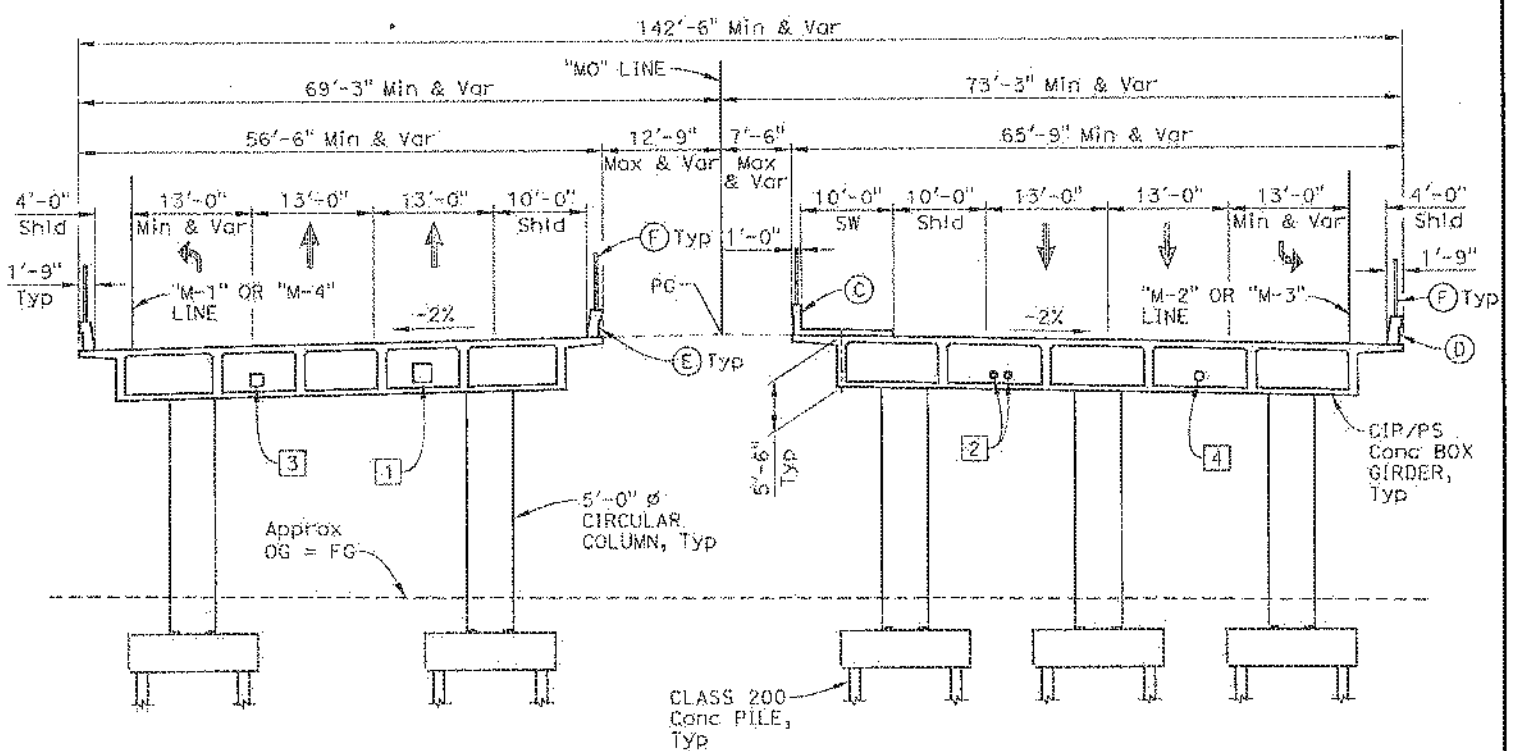
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 SIGN OFF DATE: 1/7/19

TIME PLOTTED => 11:05:33 AM
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	Riv	10	R53.9/R55.8
RCTD 4080 LEMON STREET RIVERSIDE, CA 92501			
PARSONS 2201 DUPONT DRIVE, SUITE 200 IRVINE, CA 92612			

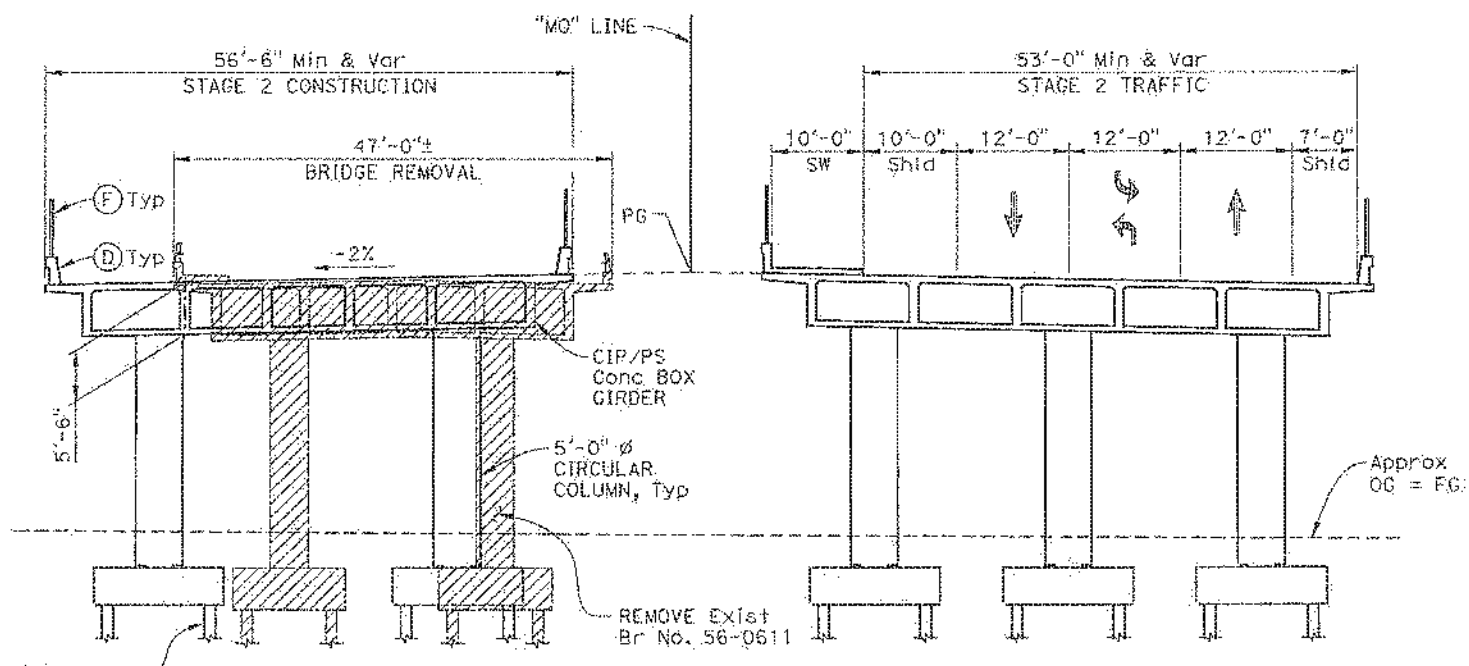


TYPICAL SECTION (STAGE 1)
1" = 10'



NOTE: All piles not shown

TYPICAL SECTION
1" = 10'



TYPICAL SECTION (STAGE 2)
1" = 10'

KEY NOTES:

- (C) Concrete Barrier (Type: 732SW Mod)
- (D) Concrete Barrier (Type: B36)
- (E) Chain Link Railing (Type: 7 Mod)
- 1. All piles not shown.

LEGEND:

- Exist Structure
- New Structure
- ▨ Bridge Removal

UTILITIES:

- 1 Future Utility Opening
- 2 2-6" Gas Lines in 10" Casings
- 3 Telecommunications
- 4 12" Water Line

ALTERNATIVE 4

DESIGNED BY	G. Douglass/D. LaFranchi	DATE	09/14/18
DRAWN BY	G. Douglass	DATE	09/21/18
CHECKED BY	C. Weber	DATE	09/28/18
APPROVED	K. Michalski	DATE	12/05/18

PLANNING STUDY	
MONROE STREET OC (REPLACE)	
GENERAL PLAN NO. 2	
BRIDGE NO. 56-XXXX L/R	UNIT:
SCALE: AS SHOWN	PROJECT NUMBER & PHASE: 0809000368

DESIGN OVERSIGHT
SIGN OFF DATE: 1/1/19


Existing Utility Plans
Attachment L

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.



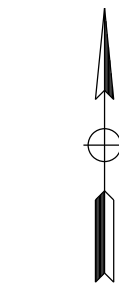
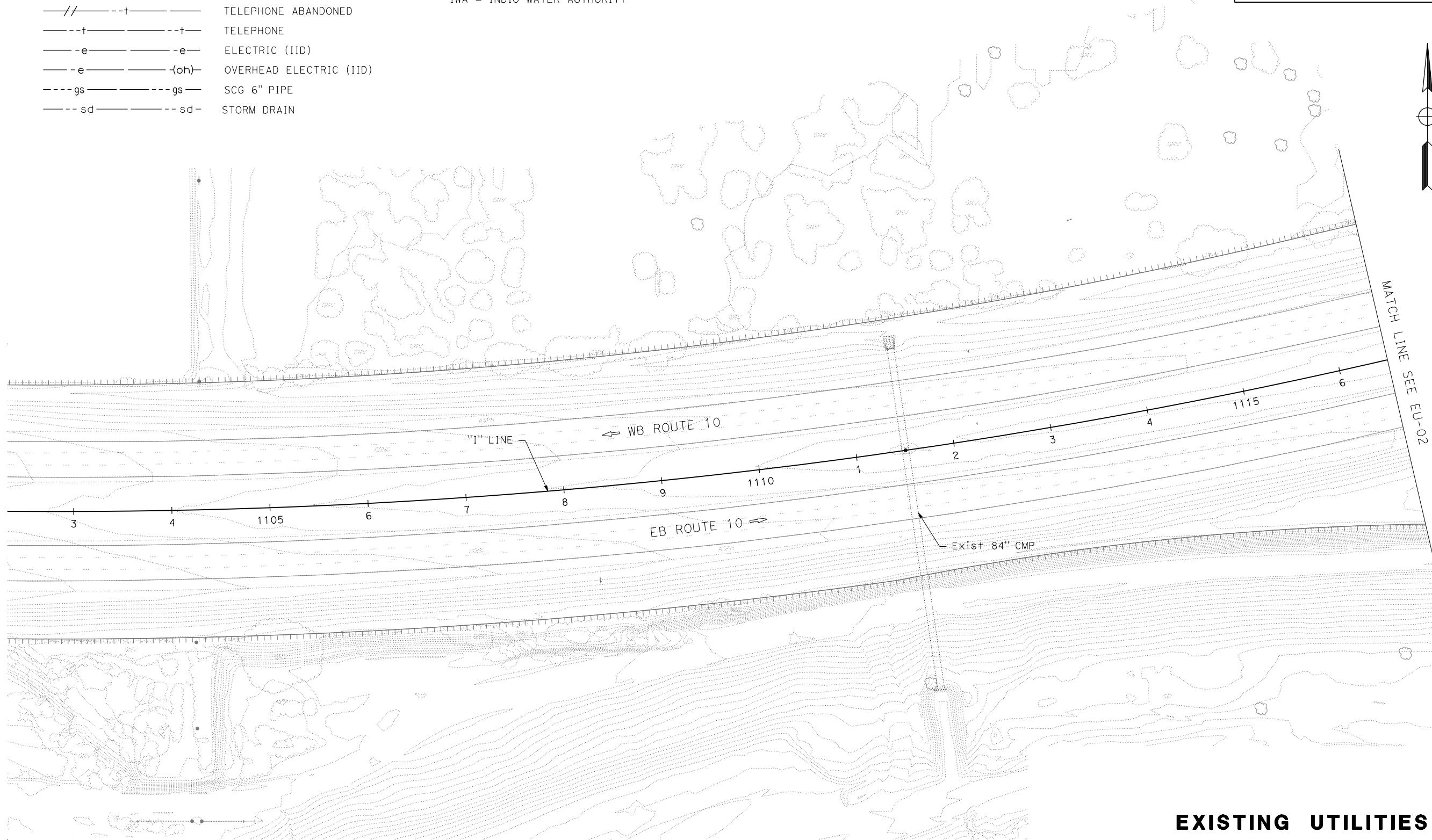
LEGEND

- w---w--- CVWD 14" DW WATER
- //---w--- CVWD ABANDONED WATER
- s---s--- VSD SEWER
- //---t--- TELEPHONE ABANDONED
- t---t--- TELEPHONE
- e---e--- ELECTRIC (IID)
- e---(oh)--- OVERHEAD ELECTRIC (IID)
- gs---gs--- SCG 6" PIPE
- sd---sd--- STORM DRAIN

ABBREVIATIONS

- SCG = SOCAL GAS
- VSD = VENTURA SANITARY DISTRICT
- IID = IMPERIAL IRRIGATION DISTRICT
- CVWD = COACHELLA VALLEY WATER DISTRICT
- IWA = INDIO WATER AUTHORITY

x
 REVISOR
 x
 CALCULATED-DESIGNED BY
 CHECKED BY
 x
 CONSULTANT FUNCTIONAL SUPERVISOR
 x
 DEPARTMENT OF TRANSPORTATION
 x
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 x
St. Gobans



MATCH LINE SEE EU-02

EXISTING UTILITIES

SCALE: 1" = 100'

EU-01



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

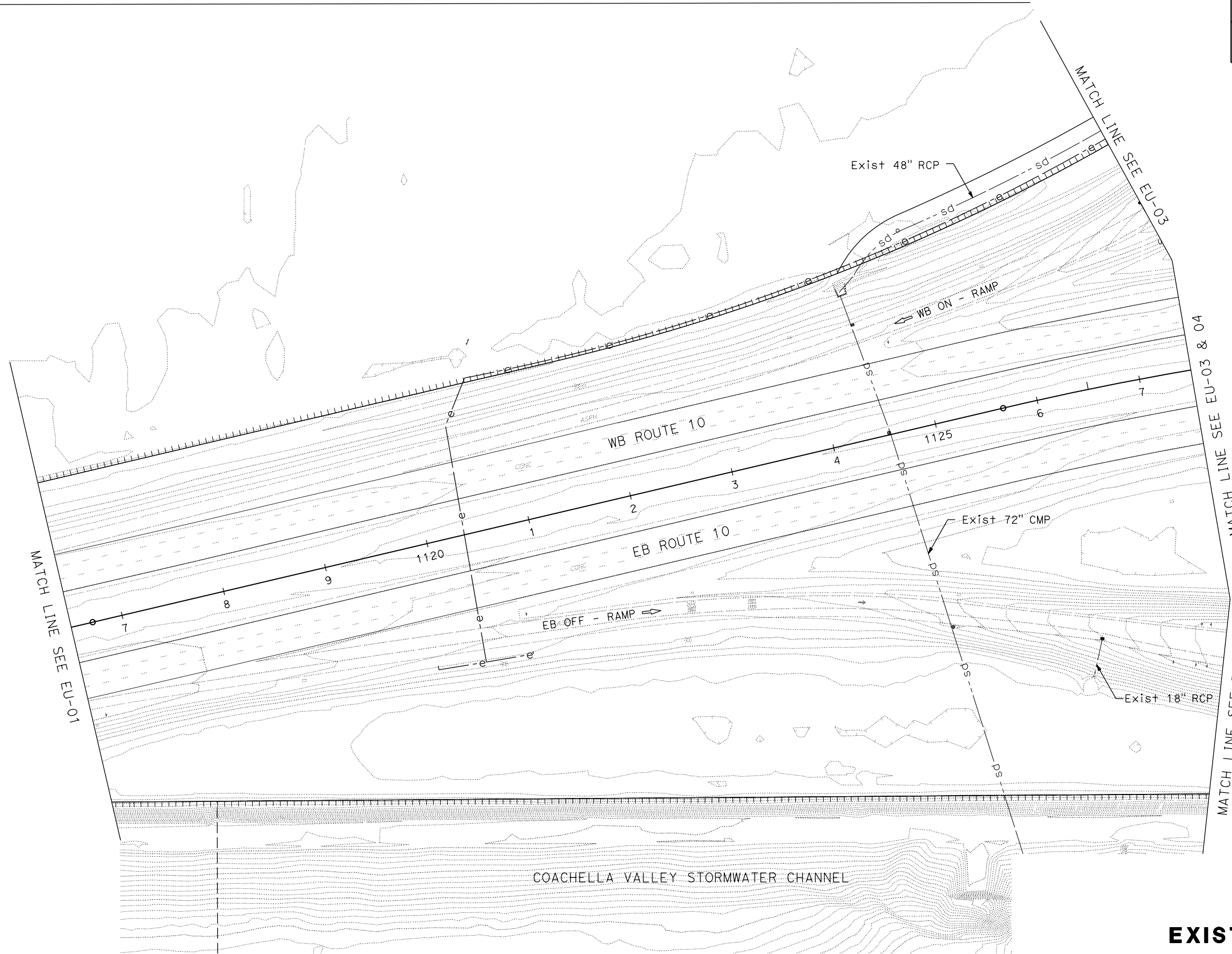
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
St. Gobans
 CONSULTANT FUNCTIONAL SUPERVISOR
 CALCULATED-DESIGNED BY
 CHECKED BY
 REVISED BY
 DATE REVISED



EXISTING UTILITIES

SCALE: 1" = 100'

EU-02

BORDER LAST REVISED 7/2/2010

USERNAME => jerusalem.verano
 DGN FILE => 163333-EU-02.dgn

RELATIVE BORDER SCALE
 IS IN INCHES



UNIT

PROJECT NUMBER & PHASE

LAST REVISION: DATE PLOTTED => 11-FEB-2019
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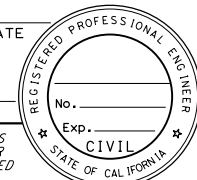
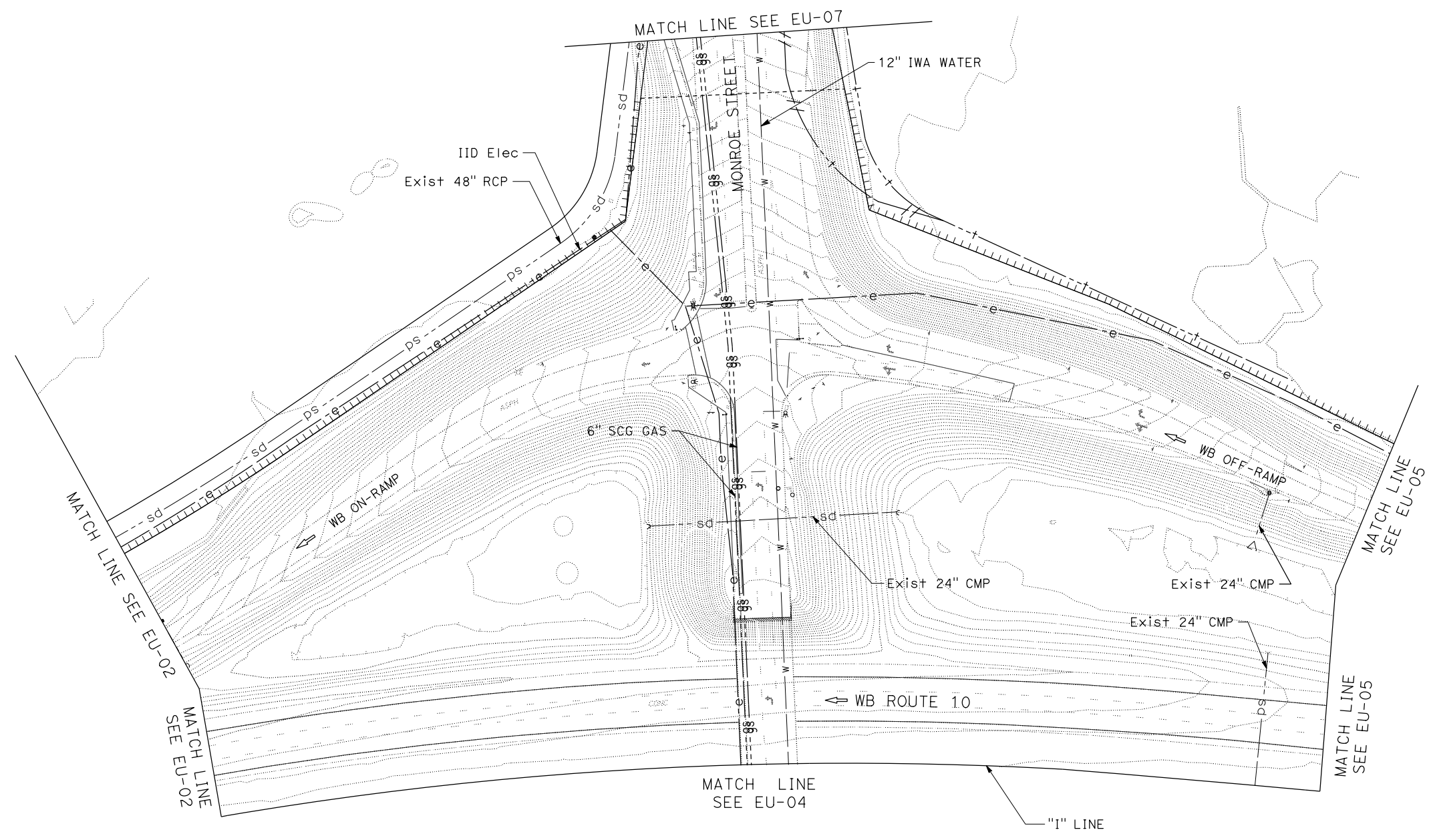
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
St. Gibbons
 CONSULTANT FUNCTIONAL SUPERVISOR
 CALCULATED-DESIGNED BY
 CHECKED BY
 REVISED BY
 DATE REVISED

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.

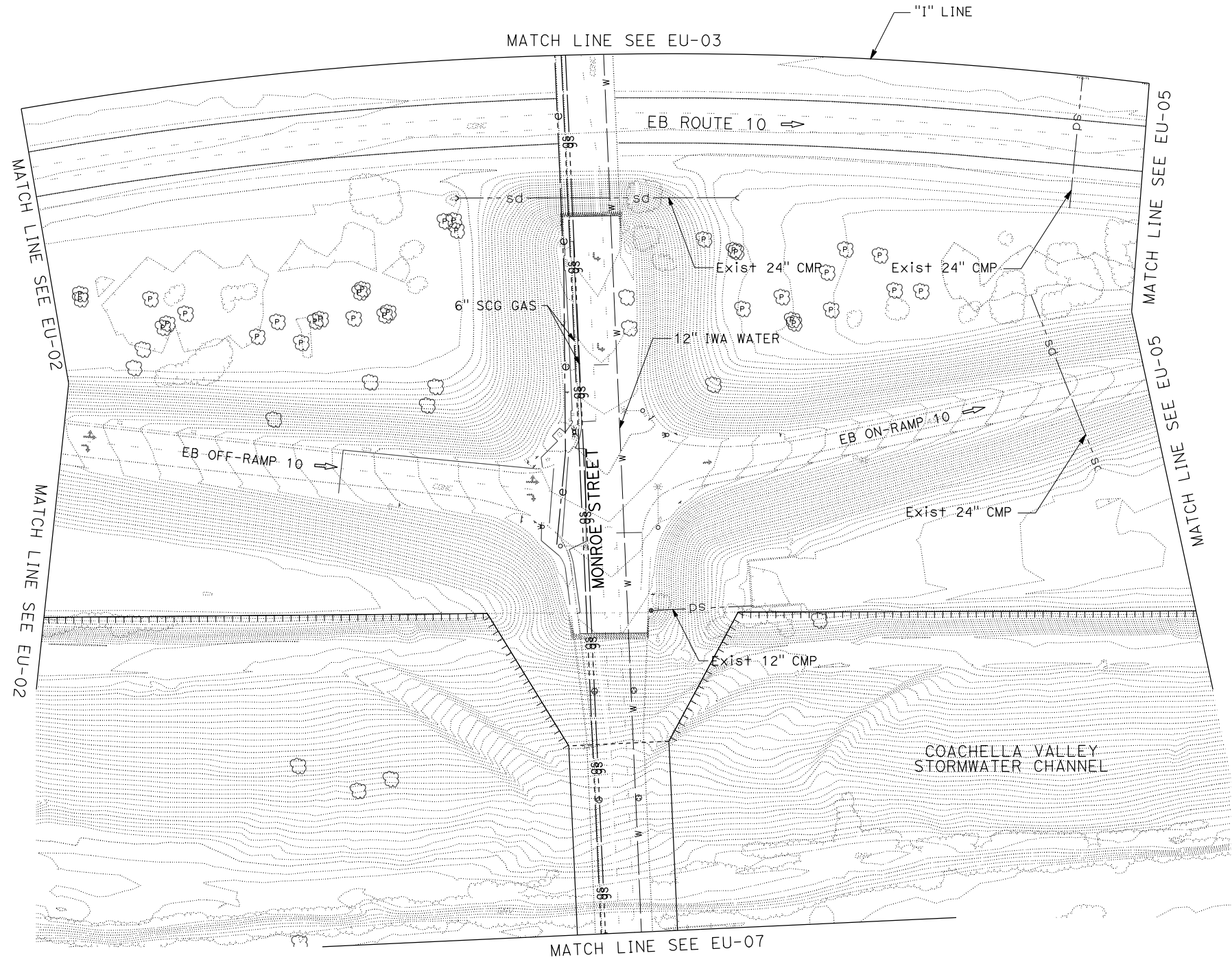



EXISTING UTILITIES

SCALE: 1" = 100'

EU-03

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>					



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

EXISTING UTILITIES
SCALE: 1" = 100'
EU-04

LAST REVISION: 00-00-00 DATE PLOTTED => 11-FEB-2019 TIME PLOTTED => 18:50

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

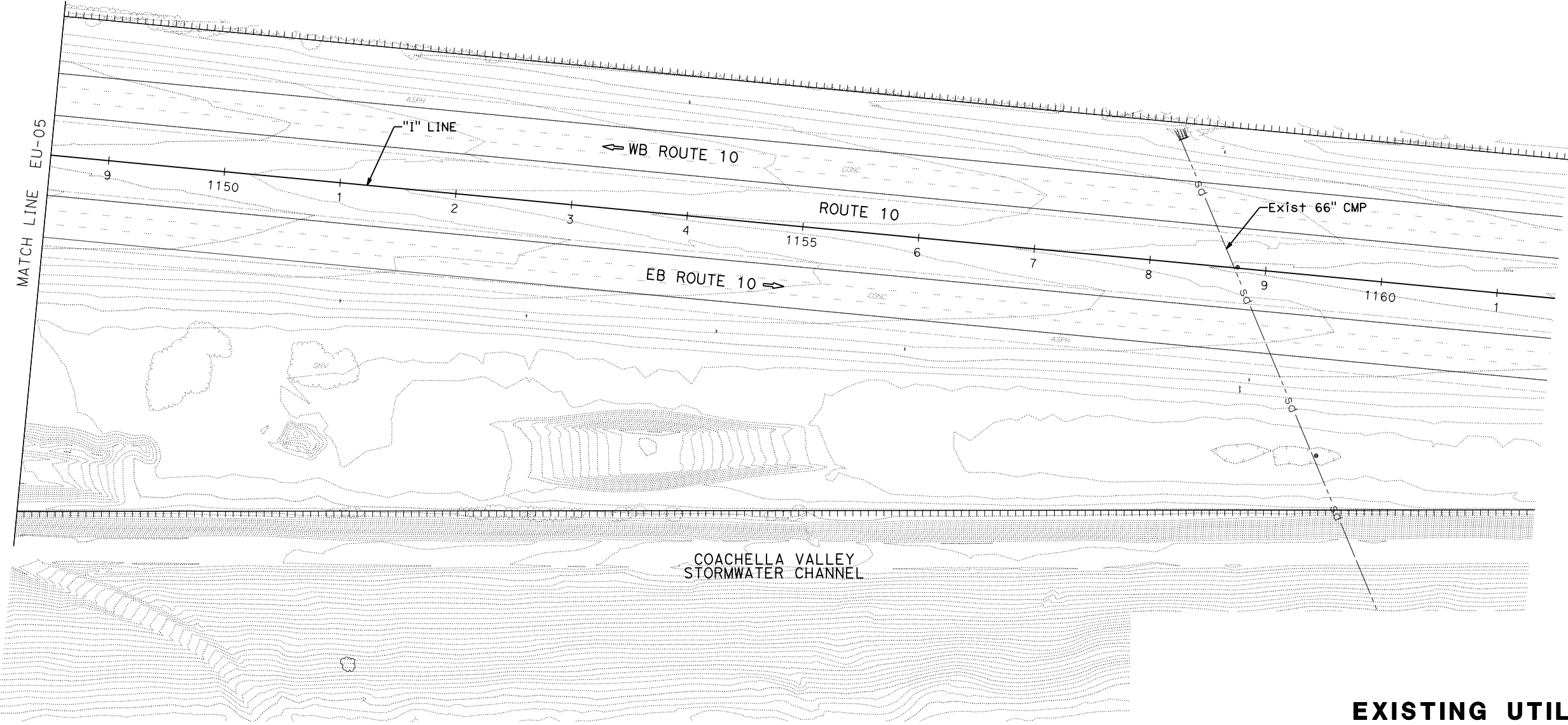
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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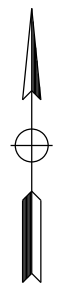
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
St. Gobans
 CONSULTANT FUNCTIONAL SUPERVISOR
 CALCULATED-DESIGNED BY
 CHECKED BY
 REVISED BY
 DATE REVISED



EXISTING UTILITIES

SCALE: 1" = 100'

EU-06



LEVEL 2 - RISK REGISTER				Project Name: I-10/Monroe Street			DIST- EA	08-0K730	Project Manager	Sadique Hossain			Version 2		Date:	11/3/2020
Risk Identification						Risk Assessment						Risk Response		Risk Owner	Updated	
Status	ID #	Type	Category	Title	Risk Statement	Current status/assumptions	Probability	Cost Impact	Cost Score	Time Impact	Time Score	Rationale	Strategy	Response Actions	Risk Owner	Updated
Active	1	Threat	PM	Funding	As a result of unsecured PS&E and Construction phase funding, project phases post PA/ED may be delayed or canceled, which would lead to the project missing it's Purpose and Need objectives.	The project is currently fully funded through PA/ED with the next phase of funding to be addressed closer to environmental document circulation.	3-Moderate	8 -High	24	16 - Very High	48	Cost escalation will result in higher future costs the longer the project is delayed.	Avoid	Secure project funding for next phases and select preferred alternative that meets performance objectives while providing cost efficiencies.	Local Agency	7/6/2018
Active	2	Threat	R/W	Right-of-Way (R/W) Acquisitions & Permits	As a result of R/W impacts from proposed improvements, additional parcel acquisitions and permits may be required which may lead to increased costs, schedule delays, and design modifications.	R/W impacts have been identified in the NW, NE & SE quadrants.	4-High	4 -Moderate	16	4 -Moderate	16	Partial acquisitions are required within private property that may end in condemnation.	Accept	Proceed with acquiring required R/W takes.	Consultant Project Manager	10/24/2018
Active	3	Threat	R/W	Utility Relocation	As a result of interchange reconfiguration, additional coordination, permitting, resources, and time may be needed to relocate impacted lines, which would lead to more time needed and increases in cost.	Utility mapping is complete. Two high pressure SoCal Gas lines, a 14" CVWD DW water line, and IID electrical lines have been identified within the existing bridge structures and will require relocation.	4-High	4 -Moderate	16	4 -Moderate	16	SoCal Gas Line is a long lead item. Utility relocation costs would be to owner and not to project.	Accept	Proactively consult with utility agencies.	Consultant Project Manager	04/25/2019
Active	4	Threat	Design	Design Exceptions	As a result of existing project constraints, design exceptions may be needed, which would lead to schedule delays and additional coordination.	Design exceptions have been identified and were rated as having a low to medium "probability of approval" by the District at the September 2018 design decision, geometric focus meeting.	3-Moderate	2 -Low	6	2 -Low	6	Design exceptions will have a low cost impact but may require additional time for approval if needed.	Avoid	Minimize the number of exceptions through geometric considerations and affects through early coordination.	Consultant Project Manager	10/24/2018
Active	5	Threat	Design	Geotechnical Findings	As a result of Geotechnical findings, poor pavement subbase and base structures and/or poor ground conditions may be found, which would lead to additional cost, scope, mitigation, and schedule delays.	Geotechnical studies have been conducted. Risk of liquefaction, groundwater, tsunamis, seiches, and surface fault rupture are considered low.	2-Low	4 -Moderate	8	2 -Low	4	The cost to mitigate potential geotechnical considerations is considered moderate with an impact to schedule low if found early in the design process.	Mitigate	Mitigate potential geotechnical issues through design considerations.	Consultant Project Manager	10/24/2018
Active	9	Threat	Environmental	Regulation Changes	As a result of changes made to environmental or design regulations, plans may need to be updated during PA/ED Phase, which would result in additional cost, scope, and schedule impacts.	Regulatory agencies formally issue new guidance and requirements during PA/ED Phase. The project is not required to do additional Vehicle Miles Traveled (VMT) analysis.	3-Moderate	4 -Moderate	12	8 -High	24	Depending on the regulatory changes, impacts may be significant or minor.	Accept	Accept regulatory changes as they are released and coordinate with stakeholders on implementation.	Consultant Project Manager	7/23/2020
Active	10	Threat	Environmental	Native American Tribal Consultation	As a result of Native American Tribal resources identified in PA/ED, PS&E, or discovered during construction, the project may be impacted, which would impact cost and schedule.	HPSR / ASR Approved on 09/18/2019 and no resources were documented to exist within the project study area.	2-Low	2 -Low	4	4 -Moderate	8	The project is located within 1.5 miles of a culturally sensitive area and is within the Chemehuevi Traditional use area. The Project may impact Tribal cultural resources during construction.	Accept	Accept Tribal Resources as discovered in construction and coordinate with Tribes for found resources if any.	Consultant Project Manager	10/7/2019
Active	11	Threat	Organizational	Coachella Valley Water District (CVWD)	As a result of reconstructing the existing Channel Bridge, additional CVWD permits, right-of-way/easement agreements, and design considerations/impacts may be required, which would impact cost and schedule.	CVWD has provided comments in PA/ED on the drainage basis of design report for work related to bridge reconstruction over the Coachella Valley Stormwater Channel and they are being addressed.	4-High	2 -Low	8	2 -Low	8	CVWD encroachment permit and review required in PS&E.	Mitigate	Proactively coordinate with CVWD to communicate design and required permits.	Consultant Project Manager	4/25/2019
Active	12	Threat	Organizational	CV Link - CVAG	As a result of unanticipated changes to planned CV link project at Monroe St.; design deltas, right-of-way modifications, and access modifications may occur, which would lead to project delays, increased costs, and potential for loss of faith from the Community.	A coordination meeting with CVAG was held to understand the organizations goals and design requirements for CV Link. The Monroe Interchange Improvements were communicated to CVAG and the current CV link modification plan is based on the 100% CV link construction plans. The two projects are proceeding independently.	1-Very Low	2 -Low	2	2 -Low	2	CV Link is schedule to begin construction in 2019. The Monroe Interchange project will impact CV Link improvements.	Mitigate	Continue to engage CVAG and monitor CV link progress.	Consultant Project Manager	4/25/2019
Active	14	Threat	Design	Geotechnical Findings	As a result of Geotechnical findings, site conditions may be different than anticipated, which would lead to additional cost and schedule delays.	Geotechnical borings would be conducted during PS&E to confirm site conditions.	2-Low	4 -Moderate	8	2 -Low	4	The cost to mitigate potential geotechnical considerations is considered moderate with an impact to schedule low if found early in the design process.	Mitigate	Mitigate potential geotechnical issues through design considerations.	Consultant Project Manager	11/3/2020
Retired	13	Threat	Organizational	FTIP Update	As a result of FTIP not accurately accounting for the project. Approval of FED may be jeopardized, which would lead to cost and schedule impacts.	Approved 2020 RTP and 2019 FTIP descriptions are consistent with the proposed project.	3-Moderate	4 -Moderate	12	4 -Moderate	12	Delay in PA/ED approval if project does not match FTIP. Circulation okay.	Mitigate	Continue to coordinate with RCTC and SCAG for updates to the FTIP / RTP.	Consultant Project Manager	7/23/2020
Retired	8	Threat	Environmental	Public Support	As a result of public outreach, components of the projects may be rejected/changed, which would lead to scope changes, schedule delays, and cost impacts.	Public was provided an update at the City Council meeting on July 17, 2019 in which a Locally preferred alternative was identified. A public hearing was held on June 9, 2020. Public comments were received during circulation of the DED, and did not result in significant changes to the scope/schedule/cost.	1-Very Low	2 -Low	2	4 -Moderate	4	Outreach will be implemented to incorporate public comments, but the project is not anticipated to be controversial.	Accept	Involve public and stakeholders in the environmental process early and often.	Consultant Project Manager	7/23/2020

LEVEL 2 - RISK REGISTER				Project Name: I-10/Monroe Street			DIST- EA	08-0K730	Project Manager	Sadique Hossain			Version 2		Date:	11/3/2020
Risk Identification							Risk Assessment					Risk Response				
Status	ID #	Type	Category	Title	Risk Statement	Current status/assumptions	Probability	Cost Impact	Cost Score	Time Impact	Time Score	Rationale	Strategy	Response Actions	Risk Owner	Updated
Retired	7	Threat	Environmental	Environmental Resource Impacts & Considerations	As a result of PAVED environmental findings, archeological, biological, air quality, waste/hazard, etc. resources/considerations may be found and impacted/unacceptable within the project area, which would lead to mitigation efforts, design changes, schedule delays, and cost impacts.	Environmental studies are complete resulting in a finding of no significant impacts.	2-Low	2 -Low	4	2 -Low	4	Minimal resources have been found within the project area thus far in PA/ED.	Avoid	Avoid environmental impacts if possible through design considerations.	Consultant Project Manager	7/23/2020
Retired	6	Threat	Traffic	Traffic Mitigation to Mainline	As a result of the TOAR, traffic mitigation measures that increase project impacts may be required, which would lead to additional cost, scope, and schedule impacts.	The TOAR and ICE were approved on September 24, 2019. An e/b auxiliary lane was added between Monroe and Jackson for improved operations and safety.	2-Low	2 -Low	4	2 -Low	4	TOAR and ICE are now approved.	Mitigate	Implemented traffic mitigation measures on a cost benefit basis.	Consultant Project Manager	10/7/2019

Legend:

Risk Assessment Definitions					
Rating →	Very Low	Low	Moderate	High	Very High
Cost Impact (Cost)	Insignificant	<5% Increase	5-10% Increase	10-20% Increase	>20% Increase
Time Impact (Delay)	Insignificant	<1 Month	1-3 Months	3-6 Months	>6 Months
Probability	1-9%	10-19%	20-39%	40-59%	60-99%

	Low Risk
	Moderate Risk
	High Risk

LCCA Cost Analysis Forms
Attachment N

Life Cycle Cost Analysis Form - I-10/Monroe Ramps Reconstruction

Alternative 1:

HMA (20-year design life) TI 10:

0.70 ft HMA-A

0.80 ft CL2 AB

Pavement Design Life:	<u>20</u>	Years	
Initial Construction Costs:		\$	<u>584,600</u>
Initial Project Support Costs:		\$	<u>0</u>
Future Maintenance & Rehabilitation Costs:*		\$	<u>805,400</u>
TOTAL AGENCY COSTS:		\$	<u>1,390,000</u>
USER COSTS:		\$	<u>79,000</u>
TOTAL LIFE-CYCLE COSTS:		\$	<u>1,469,000</u>

Reason that this is not Preferred Alternative:

All other alternatives were explored to compared cost saving measures.

* Includes both future maintenance, construction, and project support costs.

Alternative 2:

HMA w/ RHMA (20-year design life) TI 10:

0.20 ft RHMA-G

0.50 ft HMA-A

0.80 ft CL2 AB

Pavement Design Life:	<u>20</u>	Years	
Initial Construction Costs:		\$	<u>624,320</u>
Initial Project Support Costs:		\$	<u>0</u>
Future Maintenance & Rehabilitation Costs:*		\$	<u>425,680</u>
TOTAL AGENCY COSTS:		\$	<u>1,050,000</u>
USER COSTS:		\$	<u>64,000</u>
TOTAL LIFE-CYCLE COSTS:		\$	<u>1,114,000</u>

Reason that this is not Preferred Alternative:

All other alternatives were explored to compared cost saving measures.

* Includes both future maintenance, construction, and project support costs.

Alternative 3:

HMA w/ RHMA (40-year design life) TI 11:

0.10 ft RHMA-G

1.15 ft HMA-A

0.50 ft CL2 AB

Pavement Design Life: <u> 40 </u> Years		
Initial Construction Costs:	\$	791,320
Initial Project Support Costs:	\$	0
Future Maintenance & Rehabilitation Costs:*	\$	212,680
TOTAL AGENCY COSTS:		\$ 1,004,000
USER COSTS:		\$ 71,000
TOTAL LIFE-CYCLE COSTS:		\$ 1,075,000

Reason that this is not Preferred Alternative:

All other alternatives were explored to compared cost saving measures.

* Includes both future maintenance, construction, and project support costs.

Alternative 4:

HMA w/ RHMA (40-year design life) TI 11:

0.20 ft RHMA-G

1.05 ft HMA-A

0.50 ft CL2 AB

Pavement Design Life: <u> 40 </u> Years		
Initial Construction Costs:	\$	811,180
Initial Project Support Costs:	\$	0
Future Maintenance & Rehabilitation Costs:*	\$	211,820
TOTAL AGENCY COSTS:		\$ 1,023,000
USER COSTS:		\$ 71,000
TOTAL LIFE-CYCLE COSTS:		\$ 1,094,000

Reason that this is not Preferred Alternative:

All other alternatives were explored to compared cost saving measures.

* Includes both future maintenance, construction, and project support costs.

Alternative 5: Preferred Alternative

JPCP w/ Lateral Support (40-year design life) TI 11:
 0.85 ft JPCP
 0.35 ft ATPB
 1.30 ft CL2 AB

Pavement Design Life: <u>40</u> Years		
Initial Construction Costs:	\$	<u>1,104,040</u>
Initial Project Support Costs:	\$	<u>0</u>
Future Maintenance & Rehabilitation Costs:*	\$	<u>22,960</u>
TOTAL AGENCY COSTS:	\$	<u>1,127,000</u>
USER COSTS:	\$	<u>7,000</u>
TOTAL LIFE-CYCLE COSTS:	\$	<u>1,134,000</u>

* Includes both future maintenance, construction, and project support costs.

Alternative 6:

JPCP w/o Lateral Support (40-year design life) TI 11:
 0.95 ft JPCP
 0.35 ft ATPB
 1.30 ft CL2 AB

Pavement Design Life: <u>40</u> Years		
Initial Construction Costs:	\$	<u>1,126,280</u>
Initial Project Support Costs:	\$	<u>0</u>
Future Maintenance & Rehabilitation Costs:*	\$	<u>22,720</u>
TOTAL AGENCY COSTS:	\$	<u>1,149,000</u>
USER COSTS:	\$	<u>7,000</u>
TOTAL LIFE-CYCLE COSTS:	\$	<u>1,156,000</u>

Reason that this is not Preferred Alternative:

All other alternatives were explored to compared cost saving measures.

* Includes both future maintenance, construction, and project support costs.

Life Cycle Cost Analysis Form – Monroe Street Reconstruction

Alternative 1:

HMA w/ RHMA (40-year design life) TI 12.5:

0.10 ft RHMA-G

1.35 ft HMA-A

0.50 ft CL2 AB

Pavement Design Life: 40 Years

Initial Construction Costs: \$ 2,704,720

Initial Project Support Costs: \$ 0

Future Maintenance & Rehabilitation Costs:* \$ 1,151,280

TOTAL AGENCY COSTS: \$ 3,856,000

USER COSTS: \$ 6,000

TOTAL LIFE-CYCLE COSTS: \$ 3,862,000

Reason that this is not Preferred Alternative:

All other alternatives were explored to compared cost saving measures.

* Includes both future maintenance, construction, and project support costs.

Alternative 2*:

HMA w/ RHMA (40-year design life) TI 12.5:

0.20 ft RHMA-G

1.25 ft HMA-A

0.50 ft CL2 AB

Pavement Design Life: 40 Years

Initial Construction Costs: \$ 2,768,020

Initial Project Support Costs: \$ 0

Future Maintenance & Rehabilitation Costs:* \$ 1,158,980

TOTAL AGENCY COSTS: \$ 3,927,000

USER COSTS: \$ 6,000

TOTAL LIFE-CYCLE COSTS: \$ 3,933,000

Reason that this is not Preferred Alternative:

All other alternatives were explored to compared cost saving measures.

* Includes both future maintenance, construction, and project support costs.

Alternative 3: Preferred Alternative

CRCP w/ Lateral Support (40-year design life) TI 12.5:

0.85 ft CRCP
 0.35 ft ATPB
 0.25 ft HMA-A
 0.70 ft CL2 AB

Pavement Design Life: <u>40</u> Years		
Initial Construction Costs:	\$	<u>3,070,460</u>
Initial Project Support Costs:	\$	<u>0</u>
Future Maintenance & Rehabilitation Costs:*	\$	<u>33,540</u>
TOTAL AGENCY COSTS:		\$ 3,104,000
USER COSTS:		\$ 3,000
TOTAL LIFE-CYCLE COSTS:		\$ 3,107,000

Alternative 4:

CRCP w/o Lateral Support (40-year design life) TI 12.5:

0.95 ft CRCP
 0.35 ft ATPB
 0.25 ft HMA-A
 0.70 ft CL2 AB

Pavement Design Life: <u>40</u> Years		
Initial Construction Costs:	\$	<u>3,288,270</u>
Initial Project Support Costs:	\$	<u>0</u>
Future Maintenance & Rehabilitation Costs:*	\$	<u>32,730</u>
TOTAL AGENCY COSTS:		\$ 3,321,000
USER COSTS:		\$ 3,000
TOTAL LIFE-CYCLE COSTS:		\$ 3,324,000

Reason that this is not Preferred Alternative:

All other alternatives were explored to compared cost saving measures.

* Includes both future maintenance, construction, and project support costs.

Category Determination Request Memorandum
Attachment O



2/24/2016

Christy Connors
Deputy District Director, Design
464 West Fourth Street
San Bernardino, CA 92401-1400

Subject: I-10/Monroe Street Interchange Improvement Project
EA 0K730/PN 08-00000368

Reference: **Category Determination Request**

Dear Ms. Connors,

The City of Indio requests approval of the Project Category Determination for the I-10/Monroe Street Interchange Improvement project. According to Caltrans' Project Development Procedures Manual, Chapter 8, Section 5, Project Development Categories (dated 2/12/2016), the Project is a Category 4A project based on the following items:

1. The I-10/Monroe Street interchange does not require a location adoption
2. Revisions to the existing freeway agreement are not anticipated
3. New right-of-way is required
4. The project would substantially increase traffic capacity

Should you need further information, please contact Tim Haile of Michael Baker International at (909) 974-4922.

Thank you.

Categorical Determination Approval

Submitted by:

Eric Weck, PE
Principal Civil Engineer
City of Indio

Concurred by:

Christy Connors, PE
Deputy District Director, Design
Caltrans, District 8