DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	22.3/23.0	301	343

MJ Cullen 1-17-13
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

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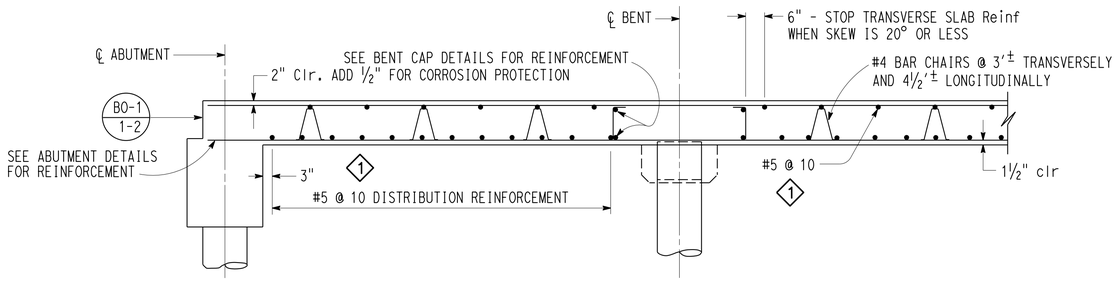
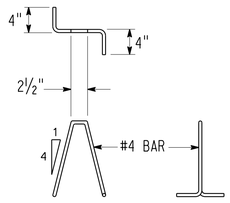
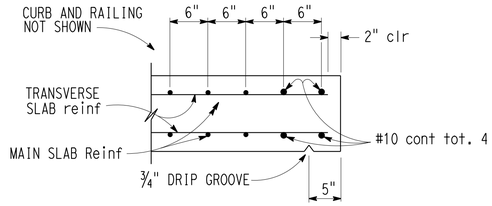
REGISTERED PROFESSIONAL ENGINEER — M. J. CULLEN — No. C 40620 — Exp. 03-31-13 — CIVIL — STATE OF CALIFORNIA



LONGITUDINAL SECTION



BAR CHAIR DETAIL

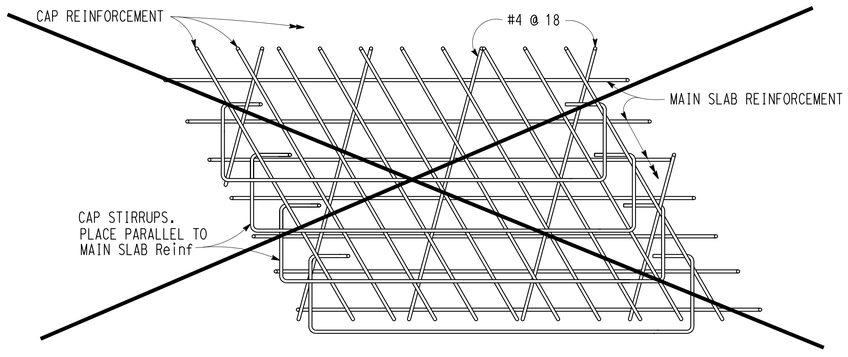


EDGE OF SLAB DETAILS

BAR SPLICE LENGTH								
BAR SIZE	#4	#5	#6	#7	#8	#9	#10	#11
ALL BARS, EXCEPT TOP BARS IN SPANS OVER 24'	23"	28"	34"	39"	45"	68"	76"	85"
TOP BARS IN SPANS OVER 24'	23"	28"	34"	53"	60"	77"	97"	120"

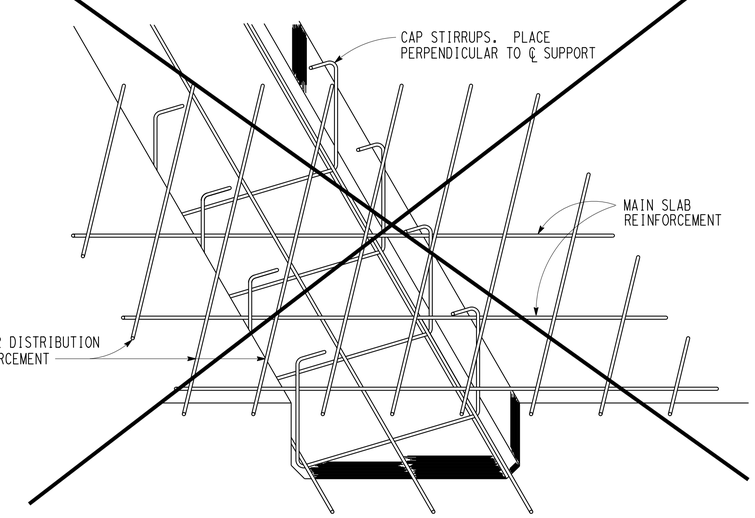
Reinforcement notes:

Splices in top main bars to be located near center of span.
Splices in bottom main bars to be located near bent.
Spacing of all transverse bars is measured along ℄ roadway.
Skew 0° to 20°: Place all transverse bars parallel to bent.
Skew over 20°: Place transverse slab bars perpendicular to ℄ bridge. See details at right and below.

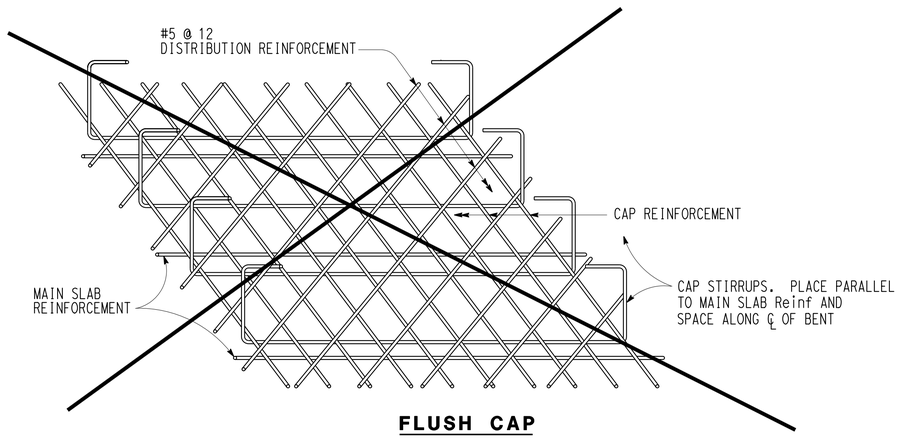


TOP SLAB REINFORCEMENT AT BENT

Note: View for main span over 24'.
Bar placement similar for spans under 24'



DROPPED CAP



FLUSH CAP

BOTTOM SLAB REINFORCEMENT AT BENT

GENERAL NOTES
LOAD FACTOR DESIGN

DESIGN: Bridge Design Specifications
(1983 AASHTO with Interims and Revisions by Caltrans)

DEAD LOAD: Includes 35 psf for future wearing surface.

LIVE LOADING: HS20-44 and alternative and permit design load.

REINFORCED CONCRETE: fy = 60,000 psi
f'c = 3,250 psi
n = 9

REVISED STANDARD DRAWING

FILE NO. xs12-55

APPROVED BY _____ RESPONSIBLE TECHNICAL SPECIALIST
APPROVAL DATE _ - _

RELEASED BY _____ RESPONSIBLE OFFICE CHIEF
RELEASE DATE _ - _

1 REVISED REINFORCING NOTE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO. 51-0339
POST MILE 22.3-23.0

LAS VEGAS CREEK BRIDGE (REPLACE)
SLAB REINFORCEMENT DETAILS

DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. 01/11/08)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3591
PROJECT NUMBER & PHASE: 0500000055 & 1 CONTRACT NO.: 0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-07-12	08-21-12			12	17

FILE => 51_0339-m-slab-det.dgn

USERNAME => s124496 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:22

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	22.3/23.0	302	343

REGISTERED CIVIL ENGINEER — 1-17-13 DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — M. J. CULLEN — No. C 40620 — Exp. 03-31-13 — CIVIL — STATE OF CALIFORNIA

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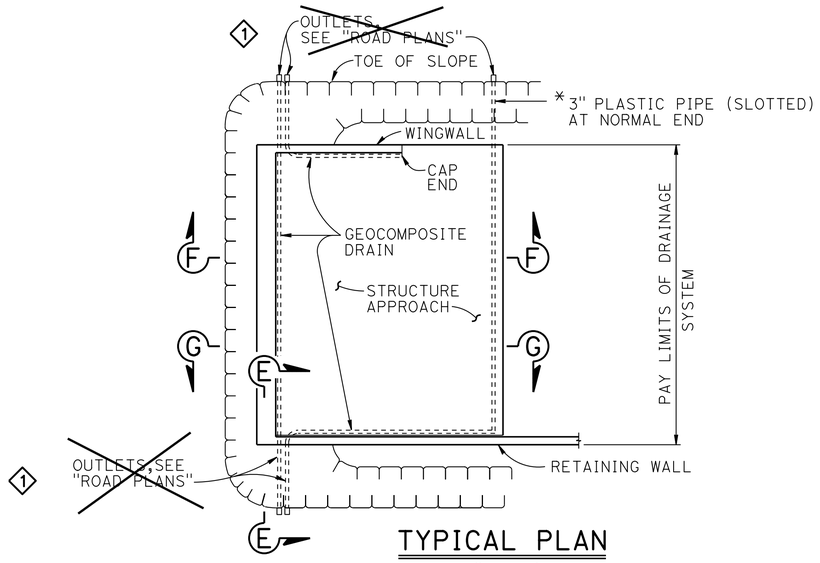
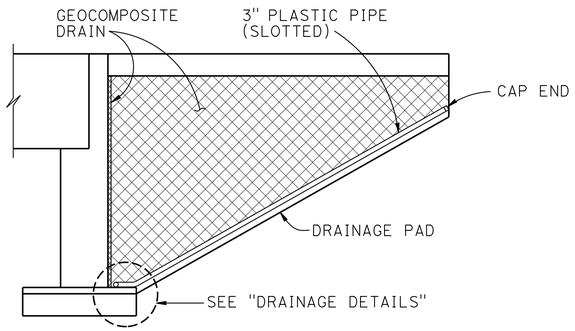


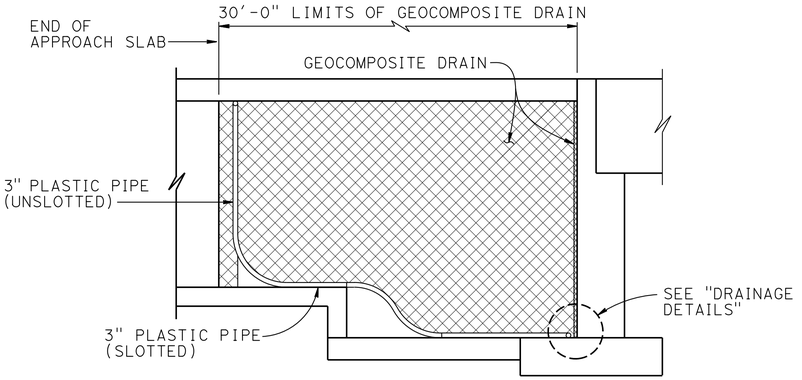
TYPICAL PLAN
1" = 10'

* FOR PIPE LAYOUT AT STAGGERED END, SEE "DETAIL B"



CANTILEVER WINGWALL

SECTION F-F
¼" = 1'-0"



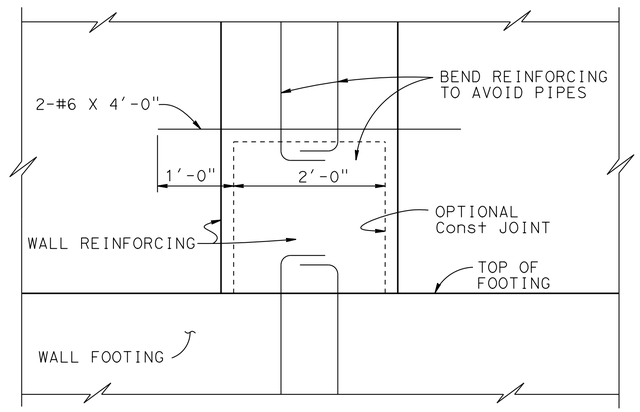
RETAINING WALL WINGWALL DRAINAGE DETAILS

SECTION G-G
¼" = 1'-0"

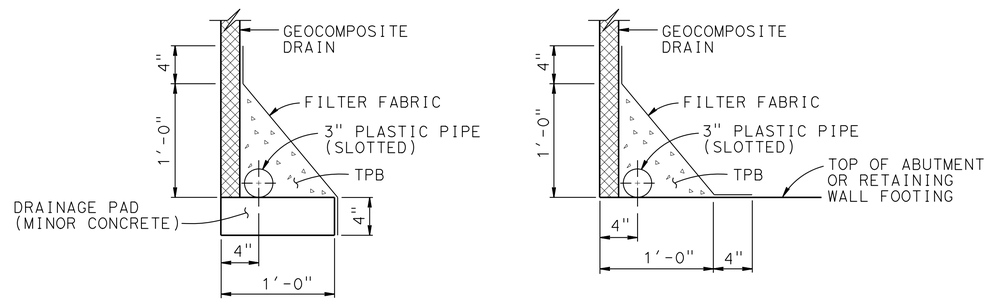
DETAIL B
No Scale

SECTION E-E
½" = 1'-0"

NOTE: Bends and junctions in 3" plastic pipe are 30" radius Min



SECTION H-H
1" = 1'-0"



WITHOUT FOOTING

WITH FOOTING

DRAINAGE DETAILS
1½" = 1'-0"

REVISED STANDARD DRAWING					
FILE NO. **xs3-110**	APPROVAL DATE OCTOBER 09, 2012	① OUTLETS THROUGH THE WINGWALL NOT REQUIRED. FOR FURTHER DRAINAGE DETAILS, SEE "ABUTMENT DETAILS" SHEETS	STATE OF **CALIFORNIA** DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 51-0339 / POST MILE 22.3-23.0	**LAS VEGAS CREEK BRIDGE (REPLACE)** **STRUCTURE APPROACH DRAINAGE DETAILS**

DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02-11)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3591
PROJECT NUMBER & PHASE: 0500000055 & 1 CONTRACT NO.: 0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-07-12	10-09-12			13	17

FILE => 51_0339-s-sadd-xs3-110.dgn

USERNAME => s124496 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:22

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	22.3/23.0	303	343

MJ Cullen 1-17-13
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — M. J. CULLEN — No. C 40620 — Exp. 03-31-13 — CIVIL — STATE OF CALIFORNIA

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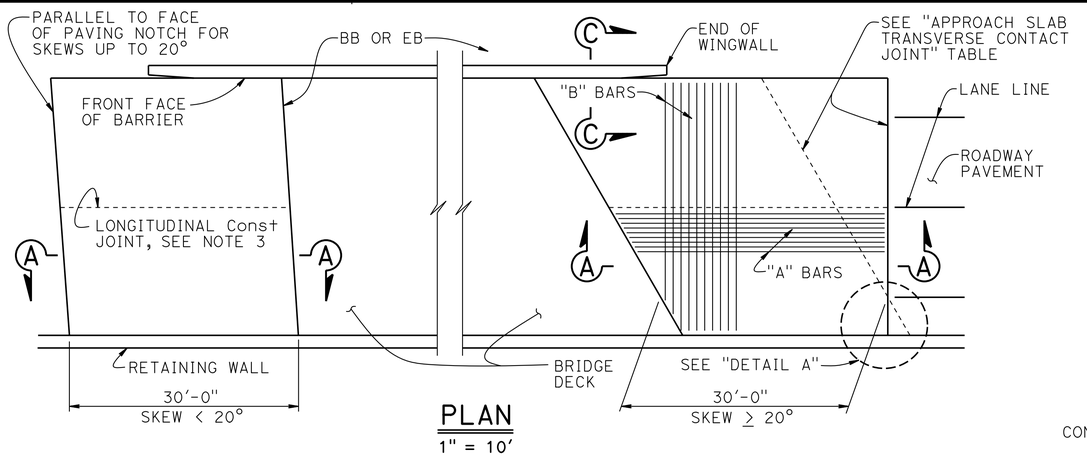
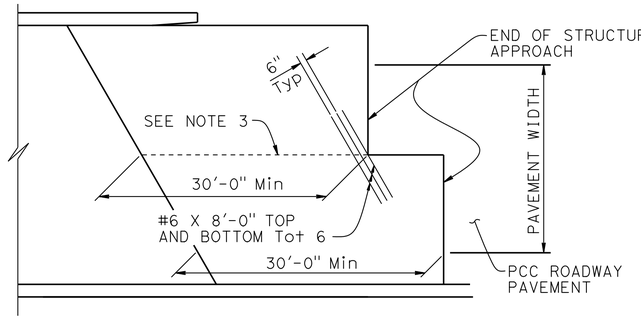
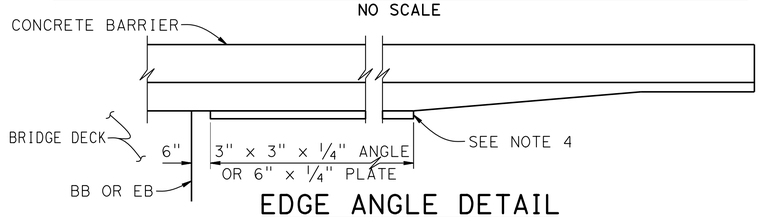


PLAN
1" = 10'

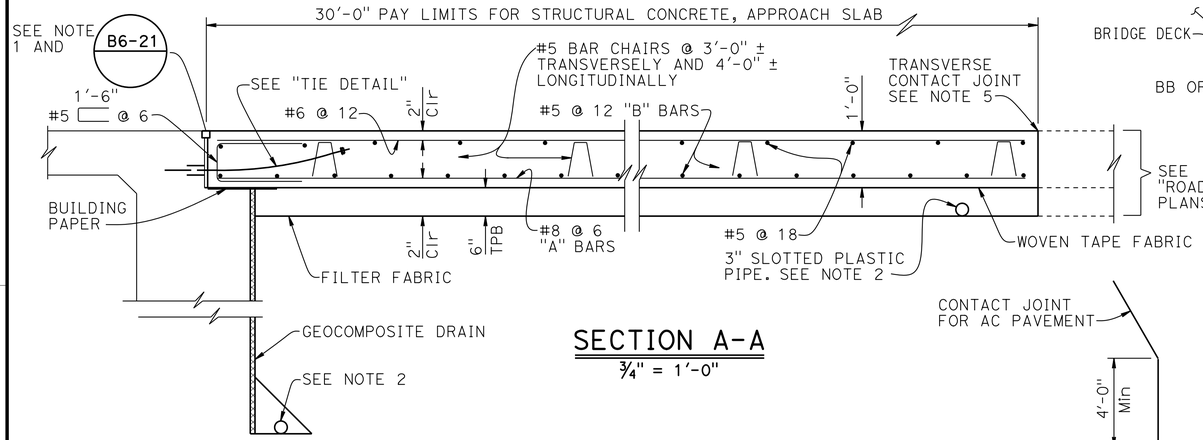


STRUCTURE APPROACH - END STAGGER DETAIL
NO SCALE



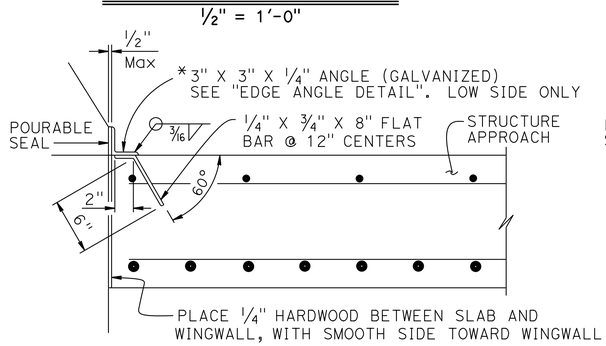
EDGE ANGLE DETAIL
½" = 1'-0"

APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 20°	PARALLEL TO FACE OF PN	PARALLEL TO FACE OF PN
20° - 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER LINES 24' TO 36' APART
> 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER AT EACH LANE LINE

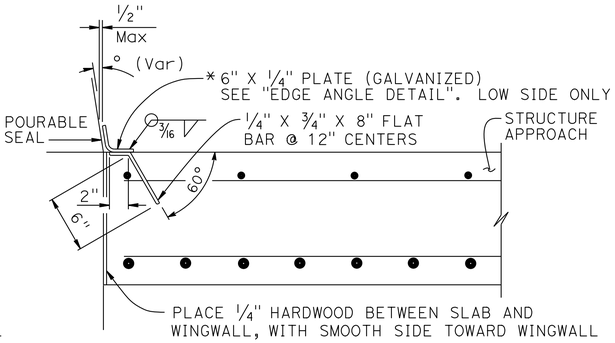


SECTION A-A
¾" = 1'-0"

DETAIL A
NO SCALE

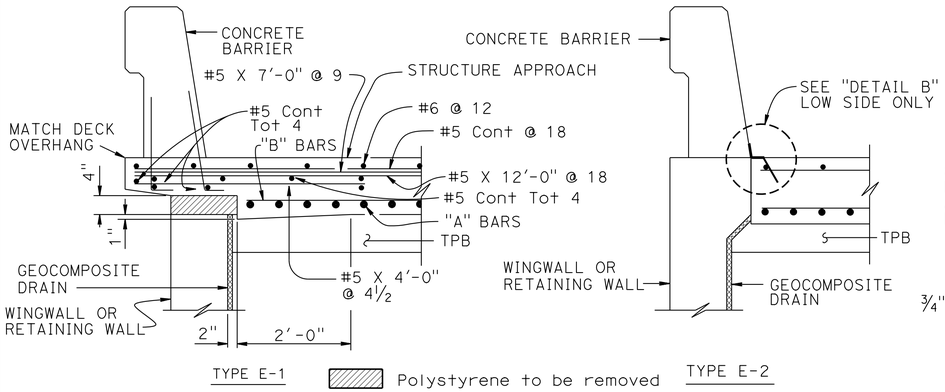


*(TO BE USED WITH CONCRETE BARRIER WITH VERTICAL FACE)

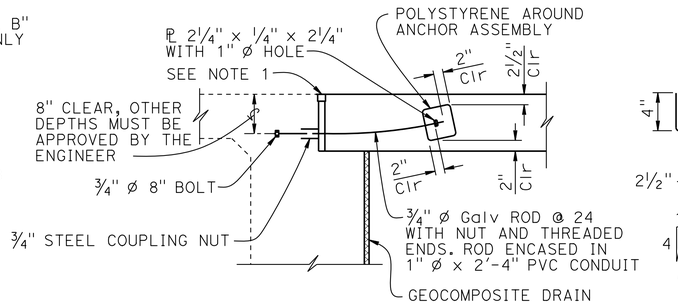


*(TO BE USED WITH CONCRETE BARRIER WITH SLOPING FACE)

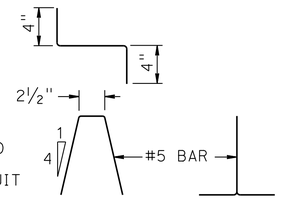
DETAIL B
1½" = 1'-0"



SECTION C-C
¾" = 1'-0"
(Type E-1 to be used, unless otherwise shown on plans)



TIE DETAIL
¾" = 1'-0"



BAR CHAIR DETAIL
1½" = 1'-0"

NOTES:
1. For details not noted or shown, see Structure Plans
2. For drainage details, see "STRUCTURE APPROACH DRAINAGE DETAILS" sheet
3. Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines
4. End angle or plate at beginning of barrier transition, end of wingwall or end of structure approach, as applicable
5. For transverse contact joint with new PCC paving, refer to Standard Plan P10
6. At the contractor's option, approach slab transverse reinforcement may be placed parallel to paving notch. Spacing of transverse reinforcement is measured along ℄ roadway

STANDARD DRAWING		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 51-0339	LAS VEGAS CREEK BRIDGE (REPLACE)
FILE NO. xs3-140	APPROVAL DATE July 2011			POST MILE 22.3-23.0	STRUCTURE APPROACH TYPE N(30D)

DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02-11)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3591
PROJECT NUMBER & PHASE: 0500000055 & 1 CONTRACT NO.: 0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-07-12				14	17

FILE => 51_0339-s-stapp-tn30d-xs3-140.dgn

USERNAME => s124496 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:22

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	22.3/23.0	304	343

REGISTERED CIVIL ENGINEER — 8-29-12 DATE

Ryan Turner No. C73956 Exp. 6-30-13 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

4-29-13
PLANS APPROVAL DATE

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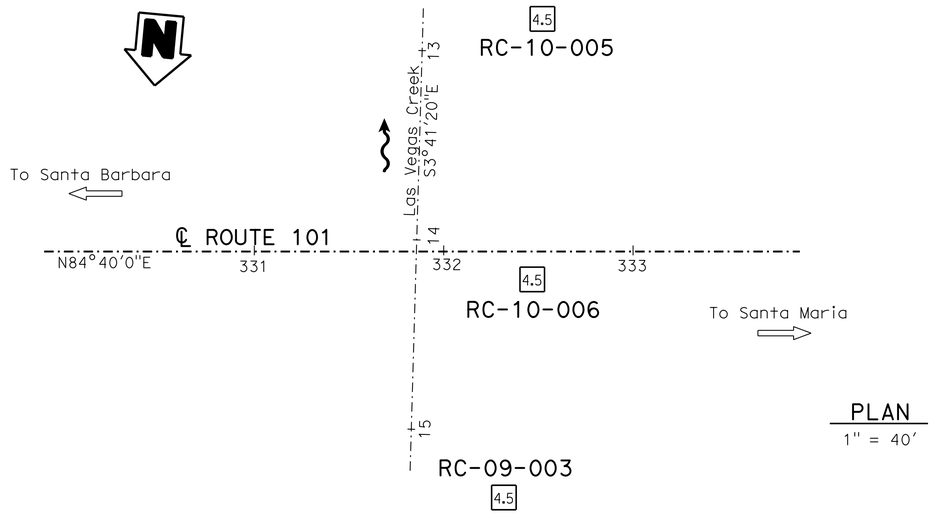
This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition).

See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

BENCH MARK

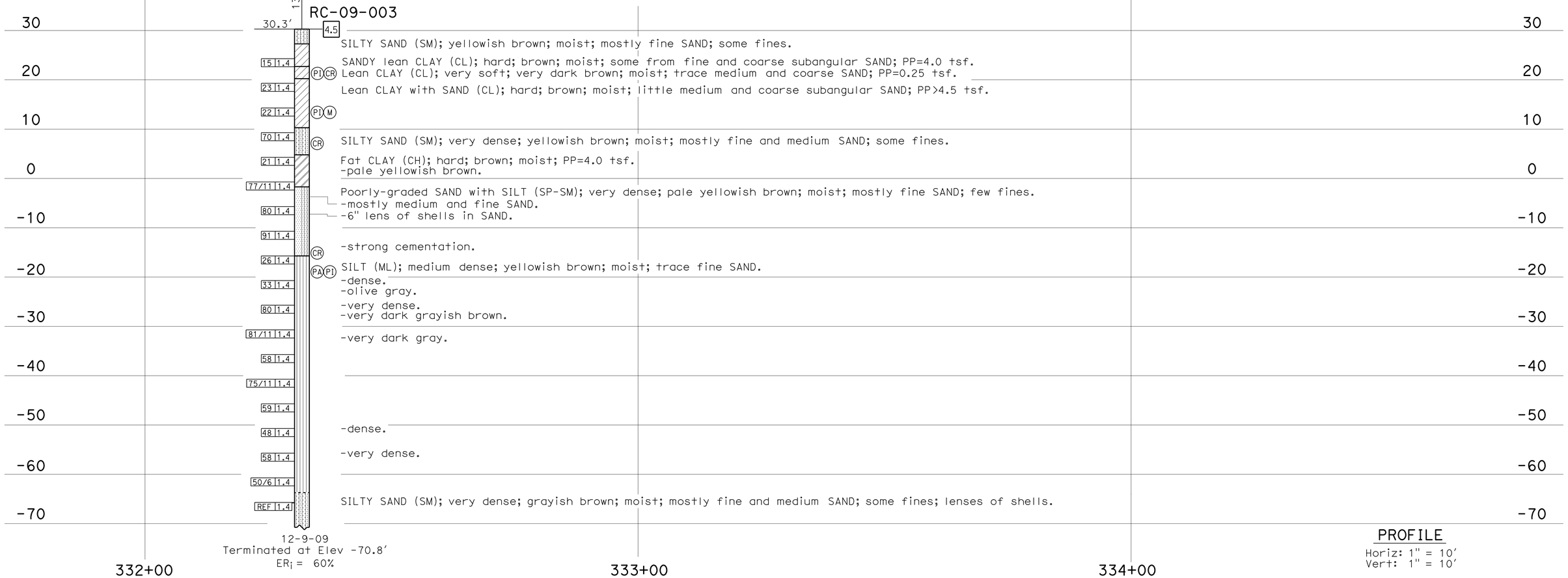
SB 101 PM 22.77

Fnd 1" IP w/ CDOT PP & nail
61.23' Lt ℄ Rte 101,
Sta 342+50.79
N 1987185.57
E 6007989.41
Elev 29.03'
Vert Datum: NAVD88



PLAN
1" = 40'

Note: Ground water not measured on Borings RC-09-003 and RC-10-006.



PROFILE
Horiz: 1" = 10'
Vert: 1" = 10'

ENGINEERING SERVICES		GEOTECHNICAL SERVICES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO. 51-0339	LAS VEGAS CREEK BRIDGE (REPLACE)
FUNCTIONAL SUPERVISOR NAME: M. Finegan	DRAWN BY: I.G-Remmen CHECKED BY: D. Appelbaum	FIELD INVESTIGATION BY: R. Turner			POST MILE 22.3-23.0	LOG OF TEST BORINGS 1 OF 3

OGS CIVIL LOG OF TEST BORINGS SHEET

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3643
PROJECT NUMBER & PHASE: 05000000551 CONTRACT NO.: 05-0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
~~08-08-12~~	08-14-12	08-28-12		15	17

USERNAME => s1124496 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:22

FILE => 51_0339-z-lotb1of3.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	22.3/23.0	305	343

Ryan Turner 8-29-12
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Ryan Turner — No. C73956 — Exp. 6-30-13 — CIVIL — STATE OF CALIFORNIA

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See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS" 1 OF 3

PROFILE
Horiz: 1" = 10'
Vert: 1" = 10'

ENGINEERING SERVICES	GEOTECHNICAL SERVICES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO. 51-0339	LAS VEGAS CREEK BRIDGE (REPLACE)
FUNCTIONAL SUPERVISOR NAME: M. Finegan	DRAWN BY: I.G-Remmen CHECKED BY: D. Appelbaum	FIELD INVESTIGATION BY: R. Turner		POST MILE 22.3-23.0	LOG OF TEST BORINGS 2 OF 3

OGS CIVIL LOG OF TEST BORINGS SHEET

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3643
PROJECT NUMBER & PHASE: 05000000551 CONTRACT NO.: 05-0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-09-12	08-14-12	08-28-12		16	17

FILE => 51_0339-z-lotb2of3.dgn

USERNAME => s124496 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:22

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	22.3/23.0	306	343

Ryan Turner 8-29-12
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Ryan Turner No. C73956 Exp. 6-30-13 CIVIL — STATE OF CALIFORNIA

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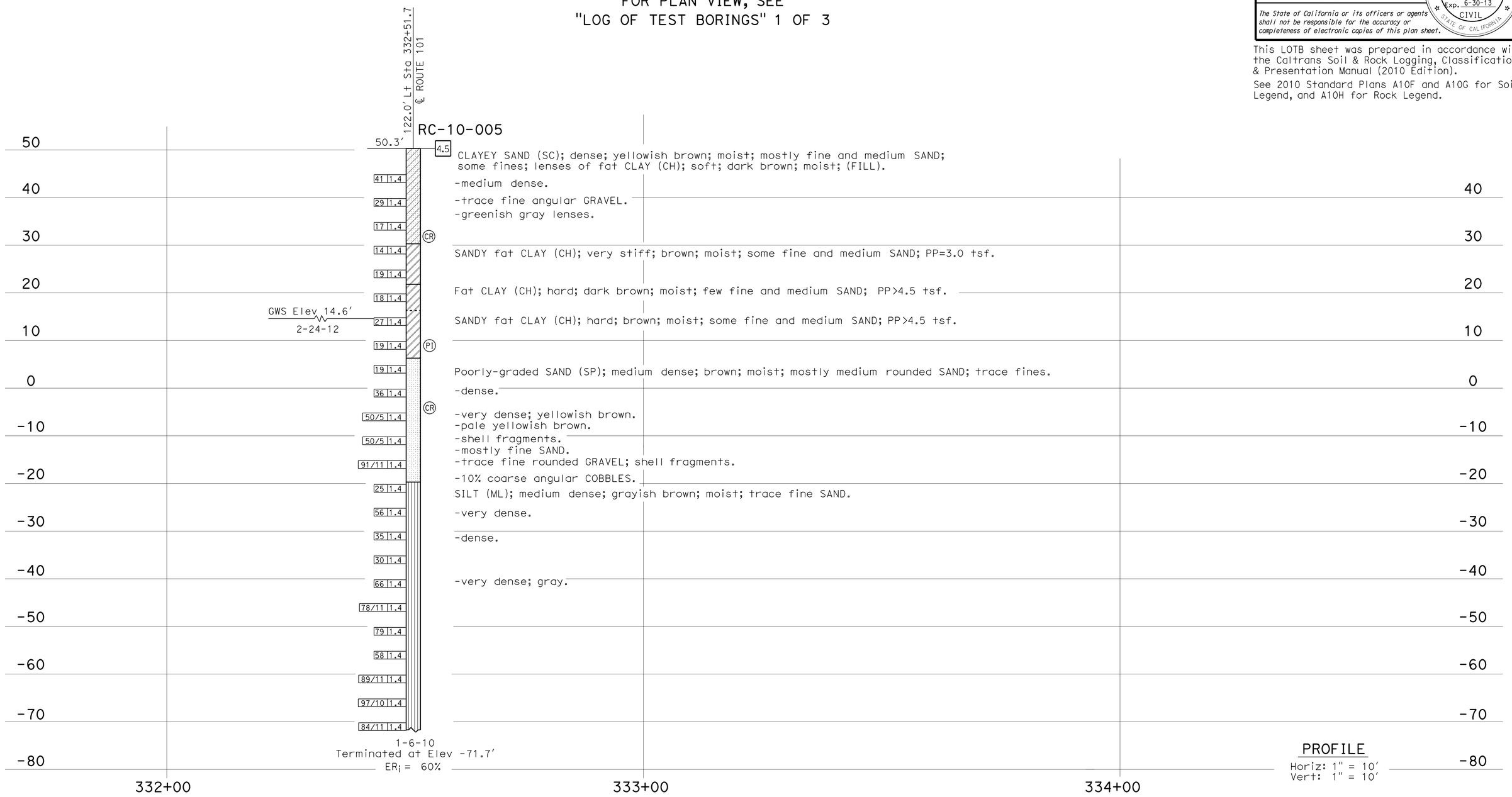
See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS" 1 OF 3



PROFILE
Horiz: 1" = 10'
Vert: 1" = 10'

ENGINEERING SERVICES	GEOTECHNICAL SERVICES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN	BRIDGE NO.	LAS VEGAS CREEK BRIDGE (REPLACE)
FUNCTIONAL SUPERVISOR	DRAWN BY: I.G-Remmen		DESIGN BRANCH 6	51-0339	LOG OF TEST BORINGS 3 OF 3
NAME: M. Finegan	CHECKED BY: D. Appelbaum	FIELD INVESTIGATION BY: R. Turner		POST MILE 22.3-23.0	

OGS CIVIL LOG OF TEST BORINGS SHEET

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3643
PROJECT NUMBER & PHASE: 05000000551 CONTRACT NO.: 05-0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-09-12	08-14-12	08-28-12		17	17

FILE => 51_0339-z-lotb3of3.dgn

USERNAME => s124496 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:22

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	22.3/23.0	307	343

MJ Cullen 1-17-13
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — M. J. CULLEN — No. C 40620 — Exp. 03-31-13 — CIVIL — STATE OF CALIFORNIA

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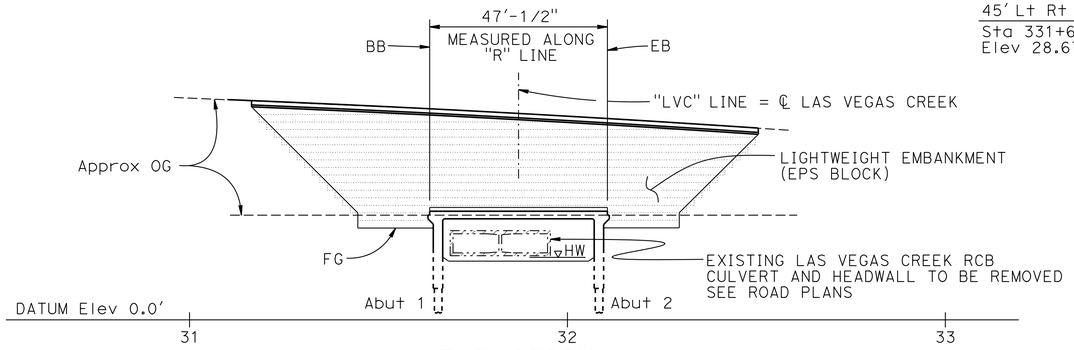
RAMP PROFILE GRADE "R" LINE

No Scale

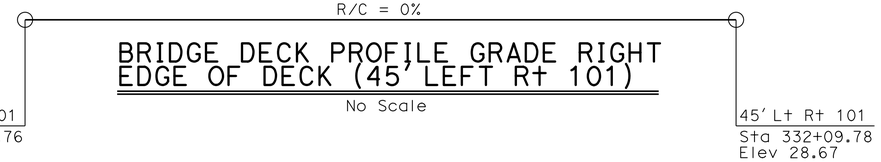


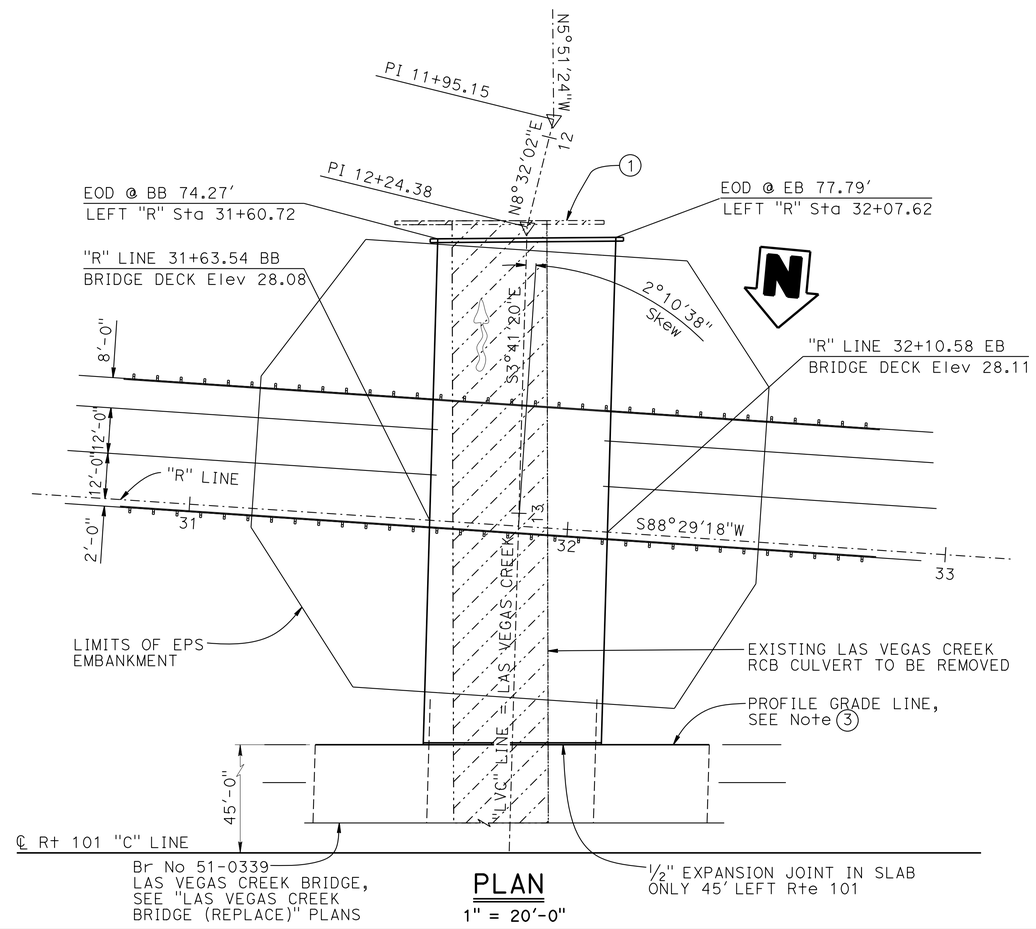
ELEVATION

1" = 20'-0"

BRIDGE DECK PROFILE GRADE RIGHT EDGE OF DECK (45' LEFT Rt 101)

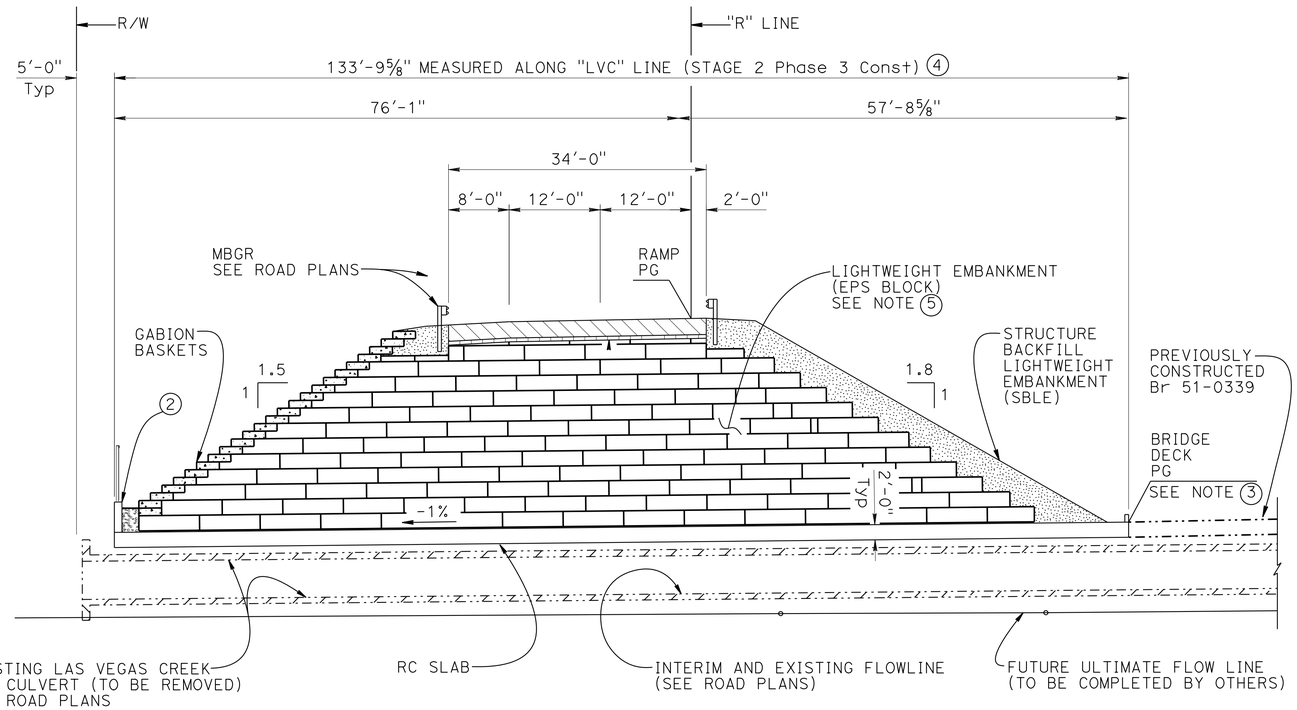
No Scale





PLAN

1" = 20'-0"



TYPICAL SECTION

1" = 10'-0"

Legend:

- Limits of reinforced Concrete Box Culvert (Br No. 51-167) removal See Road Plans
- Indiates existing structure
- Indiates new structure

Notes:

1. Remove Existing Headwall and Culvert See Road Plans
2. Headwall and Chain Link Railing (Type 7)
3. Bridge Deck Profile Grade Line is 45 feet left of and parallel to ℄, "C" Line
4. For Stage 1 Construction Limits See Las Vegas Creek Bridge (Br No 51-0341) Plans
5. For layout requirements of EPS blocks see "LIGHTWEIGHT EMBANKMENT DETAILS NO. 5" sheet

QUANTITIES

STRUCTURE EXCAVATION (TYPE A)	1,021	CY
STRUCTURE BACKFILL (BRIDGE)	391	CY
LIGHTWEIGHT EMBANKMENT (EPS BLOCK)	8,574	CY
GEOMEMBRANE (GASOLINE RESISTANT)	2,174	SQYD
STRUCTURE BACKFILL (LIGHTWEIGHT EMBANKMENT	1,054	CY
FURNISH 24" STEEL PIPE PILING	1,877	LF
DRIVE 24" STEEL PIPE PILE	46	EA
SEAL COURSE CONCRETE	178	CY
STRUCTURAL CONCRETE, BRIDGE FOOTING	159	CY
STRUCTURAL CONCRETE, BRIDGE	920	CY
JOINT SEAL (MR½")	315	LF
BAR REINFORCING STEEL (BRIDGE)	203,917	LB
HEADED BAR REINFORCEMENT	1,356	EA
STRUCTURE APPROACH DRAINAGE SYSTEM	LUMP	SUM
GABION	291	CY
CHAIN LINK RAILING (TYPE 7)	50	LF

FRITZ HOFFMAN
DESIGN ENGINEER

	BY	CHECKED
DESIGN	M. CULLEN	H. PEREZ
DETAILS	D. PATO / K. CHONKRIA	M. CULLEN
QUANTITIES	R. WASHINGTON	G. REYES-GUTIERREZ

LOAD & RESISTANCE FACTOR DESIGN — LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE

	BY	CHECKED
LAYOUT	M. CULLEN	H. PEREZ
SPECIFICATIONS	V. RENGANATHAN	PLANS AND SPECS COMPARED V. RENGANATHAN

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

BRIDGE NO. 51-0339K
POST MILE 22.3-23.0

LAS VEGAS OFF-RAMP BRIDGE (REPLACE)

GENERAL PLAN

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3591
PROJECT NUMBER & PHASE: 0500000055 & 1 CONTRACT NO.: 0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
07-26-12		11-01-12	01-09-13	1	19

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV.09-01-10)

FILE => 51-0339k-a-gp01.dgn

USERNAME => s124496 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:22

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	22.3/23.0	308	343

M J Cullen 1-17-13
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — M. J. CULLEN — No. C 40620 — Exp. 03-31-13 — CIVIL — STATE OF CALIFORNIA

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INDEX TO PLANS

STANDARD PLANS DATED 2010

A10A	ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2)
A10B	ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2)
A10C	LINES AND SYMBOLS (SHEET 1 OF 3)
A10D	LINES AND SYMBOLS (SHEET 2 OF 3)
A10E	LINES AND SYMBOLS (SHEET 3 OF 3)
A10F	LEGEND - SOIL (SHEET 1 OF 2)
A10G	LEGEND - SOIL (SHEET 2 OF 2)
A10H	LEGEND - ROCK
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE
A76A	CONCRETE BARRIER TYPE 60A
A87A	CURBS AND DRIVEWAYS
B0-1	BRIDGE DETAILS
B0-3	BRIDGE DETAILS
B0-5	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B2-8	PILE DETAILS CLASS 200
B6-21	JOINT SEALS
B11-52	CHAIN LINK RAILING TYPE 7
D100A	GABION BASKET DETAIL No. 1

STANDARD PLAN SHEET NO.

DETAIL NO.

GENERAL NOTES
LOAD AND RESISTANCE FACTOR DESIGN

DESIGN:

AASHTO LRFD Bridge Design Specifications,
Fourth Edition and Caltrans Amendments Preface
Dated December 7, 2011

SEISMIC DESIGN:

Caltrans Seismic Design Criteria SDC Version 1.6, December 2010

DEAD LOAD:

Includes 35 psf for future wearing surface.

LIVE LOADING:

HL93 and permit design load.

SEISMIC LOADING:

Site Specific See ARS Curve.

REINFORCED CONCRETE:

f_y = 60 ksi
f_c = 4.0 ksi
n = 8

STRUCTURAL STEEL:

f_y = ASTM A709 Grade 50

SOIL PARAMETERS:

(For determination of design lateral earth pressures)
$\Phi = 32°$ $\gamma = 120$ pcf

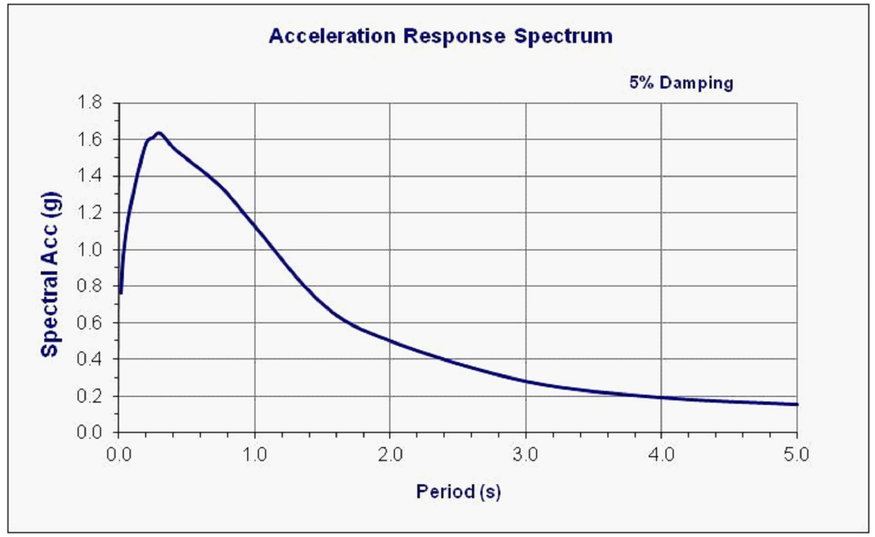
FAULT NAME	FAULT TYPE	MOMENT MAGNITUDE OF MAXIMUM CREDIBLE EARTHQUAKE	DISTANCE FROM FAULT TO PROJECT SITE (MILES)	PEAK GROUND ACCELERATION T=0 SEC (GRAVITY)
SAN JOSE FAULT	REVERSE	6.3	0.7	0.61
MORE RANCH FAULT	REVERSE	7.2	0.7	0.51

PILE DATA TABLE

LOCATION	PILE TYPE	NOMINAL RESISTANCE (KIPS)		DESIGN TIP ELEVATIONS (FT)	SPECIFIED TIP ELEVATIONS (FT)	NOMINAL DRIVING RESISTANCE (KIPS)
		COMPRESSION	TENSION			
ABUTMENT 1	24"X1/2" STEEL PIPE PILE	383	N/A	-28 (a), -32 (b), 0 (c)	-32	383
ABUTMENT 2	24"X1/2" STEEL PIPE PILE	383	N/A	-28 (a), -32 (b), 0 (c)	-32	383

NOTES:
1) Design tip elevations for Abutments are controlled by: (a) Compression, (b) Lateral (c) Settlement.

2) The specified tip elevation shall not be raised above the design tip elevations for tension load, lateral load, and tolerable settlement.



ARS CURVE

DESIGN	BY M. CULLEN	CHECKED H. PEREZ	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO. 51-0339K
DETAILS	BY K. CHONKRIA	CHECKED M. CULLEN			POST MILE 22.3-23.0
QUANTITIES	BY G. REYES-GUTIERREZ	CHECKED M. CULLEN			

LAS VEGAS OFF-RAMP BRIDGE (REPLACE)
INDEX TO PLANS

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3591
PROJECT NUMBER & PHASE: 0500000055 & 1 CONTRACT NO.: 0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 08-16-12 | 08-23-12 | 09-27-12 | 10-04-12

SHEET 2 OF 19

FILE => 51-0339K-a-itp.dgn

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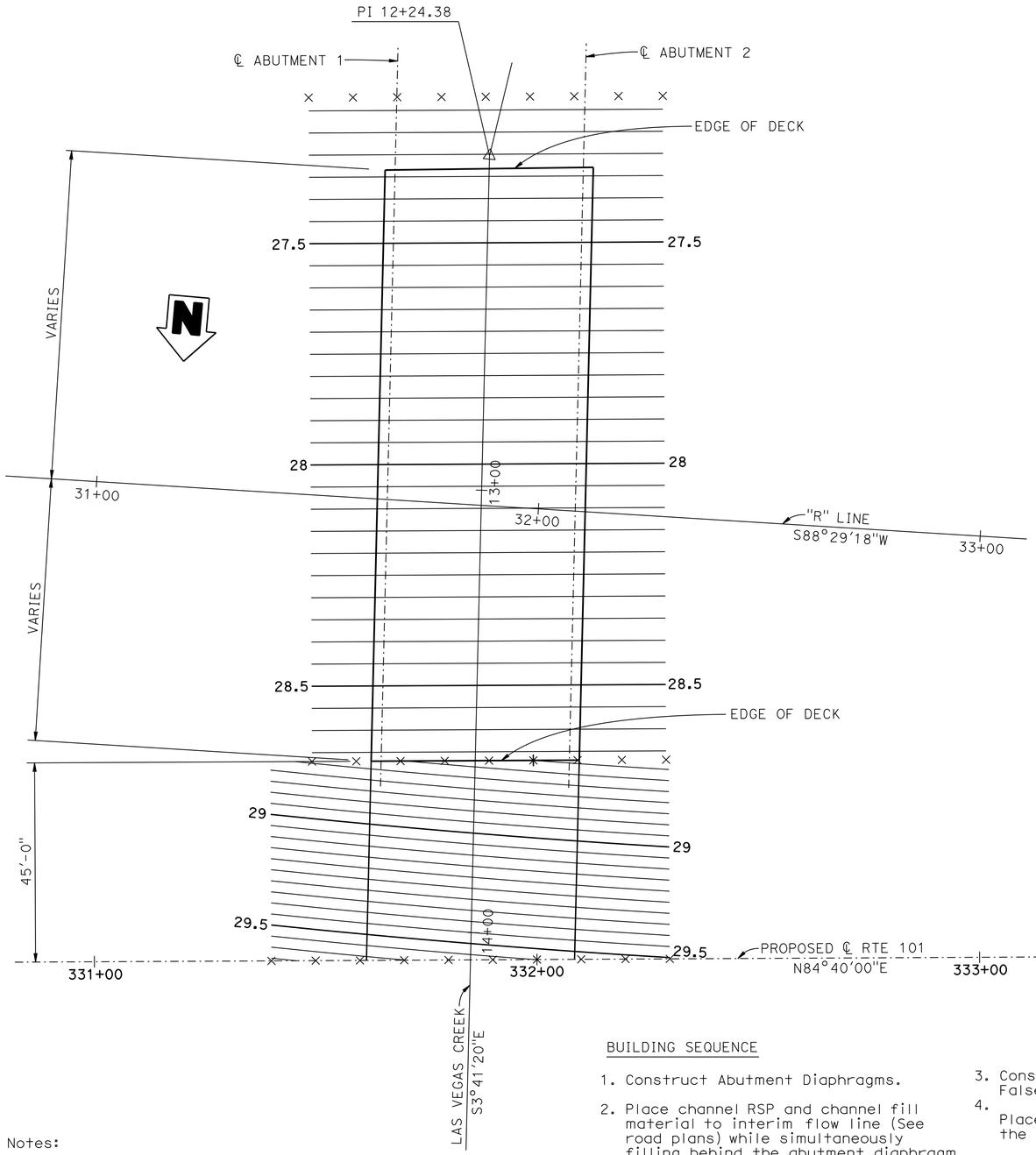


PLAN

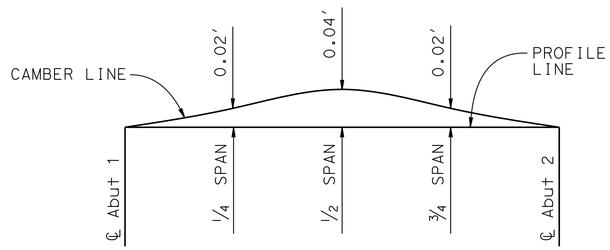
1" = 15'-0"

Notes:

× - 10' Station Interval.

0.05' Contour Interval.

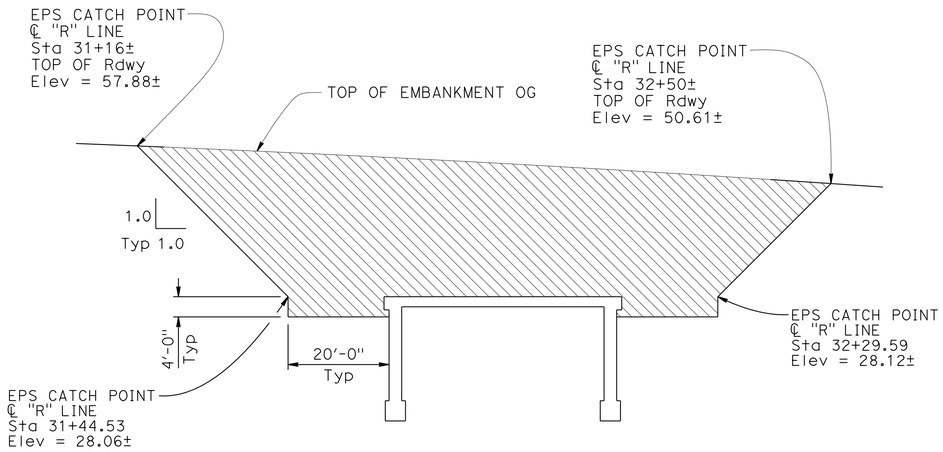
Contours do not include camber.



CAMBER DIAGRAM

NO SCALE

Does not include allowance for falsework settlement.

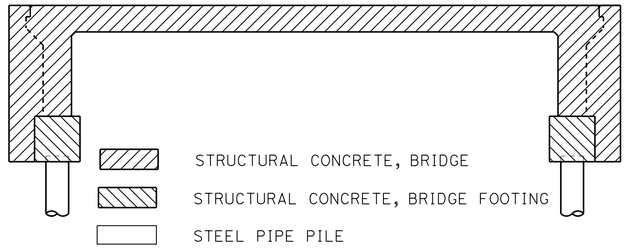


ROADWAY EXCAVATION DIAGRAM

NO SCALE

Indicates Roadway Excavation

NOTE: Structural Concrete bridge, includes load distribution slab.



CONCRETE STRENGTH AND TYPE LIMITS

NO SCALE

BUILDING SEQUENCE

1. Construct Abutment Diaphragms.
2. Place channel RSP and channel fill material to interim flow line (See road plans) while simultaneously filling behind the abutment diaphragm. The elevation of the fill within the channel and behind the abutment shall be within 2 feet of each other at all times.
3. Construct Deck Slab and remove Falsework.
4. Place remaining backfill behind the abutments.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	22.3/23.0	309	343

M J Cullen 1-17-13
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — M. J. CULLEN — No. C 40620 — Exp. 03-31-13 — CIVIL — STATE OF CALIFORNIA

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	BY	CHECKED
DESIGN	M. CULLEN	H. PEREZ
DETAILS	D. PATO	M. CULLEN
QUANTITIES	H. PEREZ	M. CULLEN

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

BRIDGE NO. 51-0339K
POST MILE 22.2-23.0

LAS VEGAS OFF-RAMP BRIDGE (REPLACE)
DECK CONTOURS

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3591
PROJECT NUMBER & PHASE: 0500000055-1
CONTRACT NO.: 05-0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 8-14-12 | 8-23-12 | 10-08-12 | 01-17-13

SHEET 3 OF 19

FILE => 51-0339K-d-dc.dgn

USERNAME => s1216614 DATE PLOTTED => 13-MAY-2013 TIME PLOTTED => 14:09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
05	SB	101	22.3/23.0	310	343

MJ Cullen 1-17-13
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — M. J. CULLEN — No. C 40620 — Exp. 03-31-13 — CIVIL — STATE OF CALIFORNIA

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To get to the Caltrans web site, go to: http://www.dot.ca.gov

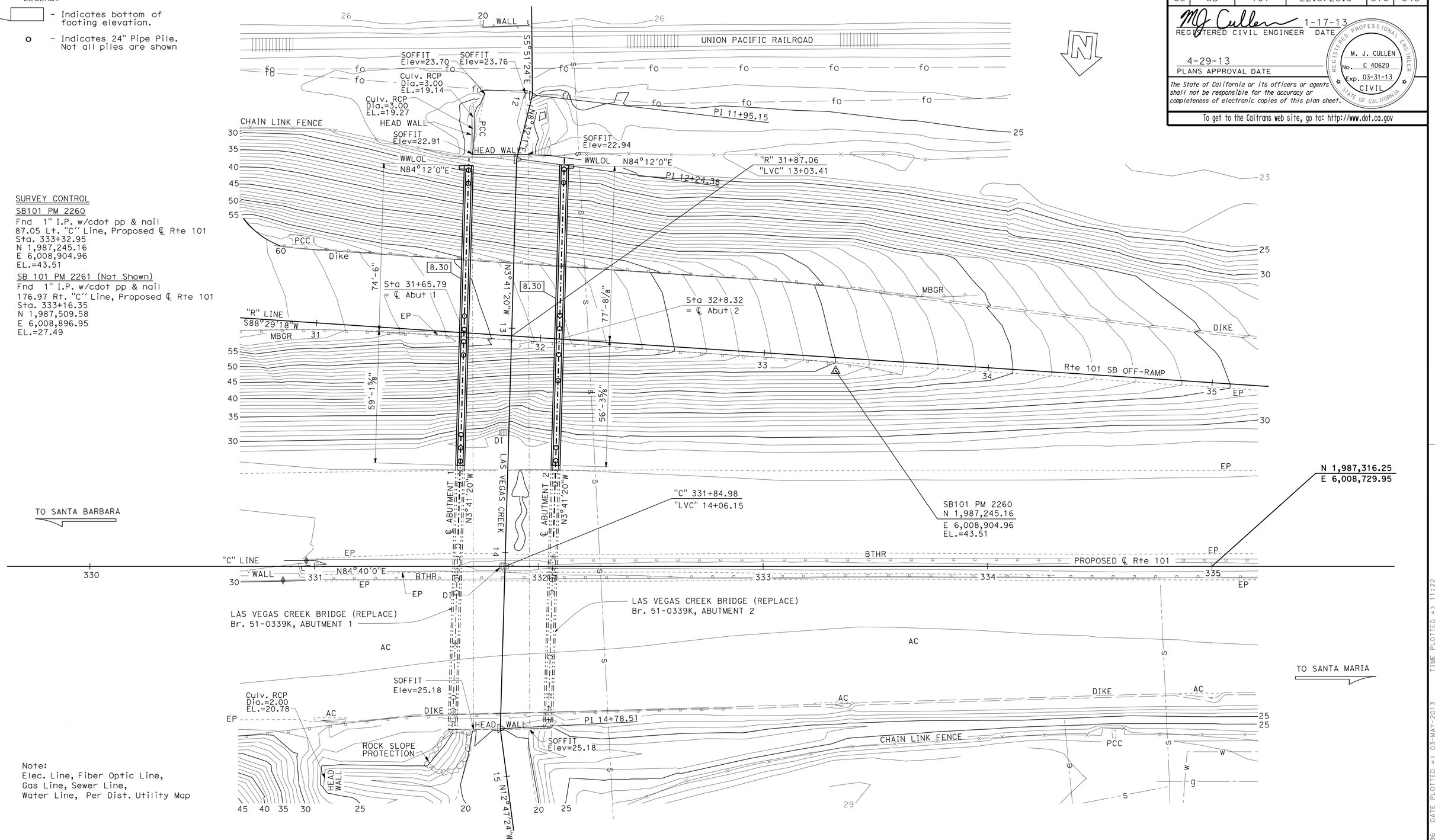
LEGEND:

- Indicates bottom of footing elevation.
- Indicates 24" Pipe Pile. Not all piles are shown

SURVEY CONTROL

SB101 PM 2260
Fnd 1" I.P. w/cdot pp & nail
87.05 Lt. "C" Line, Proposed ℄ Rte 101
Sta. 333+32.95
N 1,987,245.16
E 6,008,904.96
EL.=43.51

SB 101 PM 2261 (Not Shown)
Fnd 1" I.P. w/cdot pp & nail
176.97 Rt. "C" Line, Proposed ℄ Rte 101
Sta. 333+16.35
N 1,987,509.58
E 6,008,896.95
EL.=27.49



Note:
Elec. Line, Fiber Optic Line,
Gas Line, Sewer Line,
Water Line, Per Dist. Utility Map

PRELIMINARY INVESTIGATION SECTION							
SCALE 1"=20'	VERT.DATUM NAVD 88	PHOTOGRAMMETRY AS OF: X					
	HORZ.DATUM NAD 83 (91.35)	SURVEYED	BY DISTRICT	CHECKED	BY JIM PALLARES 01/2010		
	ALIGNMENT TIES Dist. Traverse Sheet	DRAFTED	BY SHARON ZHENG 01/2010	CHECKED	BY T.ZOLNIKOV 01/2010		

	BY	CHECKED
DESIGN	M. CULLEN	H. PEREZ
DETAILS	SUSAN NG	M. CULLEN
QUANTITIES	R. WASHINGTON	G. REYES-GUTIERREZ

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 06

BRIDGE NO. 51-0339K
POST MILE 22.3-23.0

LAS VEGAS OFF-RAMP BRIDGE (REPLACE)
FOUNDATION PLAN

CU 05
EA 0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 1/21/2010 | 8/4/2010 | 08-10-12 | 10-08-12

SHEET 4 OF 19

STRUCTURES FOUNDATION PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

FILE => 51-0339k-e-fp101-new.dgn

USERNAME => s1224096 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:22

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	22.3/23.0	311	343

M J Cullen 1-17-13
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — M. J. CULLEN — No. C 40620 — Exp. 03-31-13 — CIVIL — STATE OF CALIFORNIA

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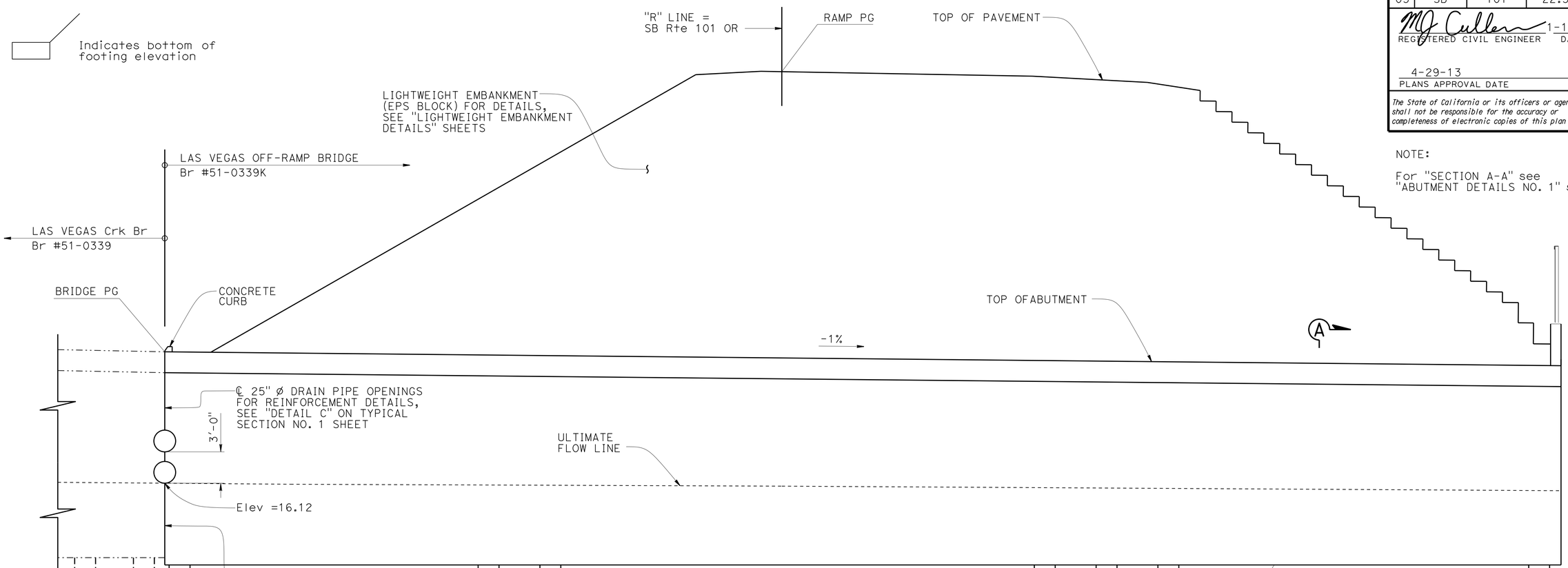
LEGEND:

Indicates bottom of footing elevation

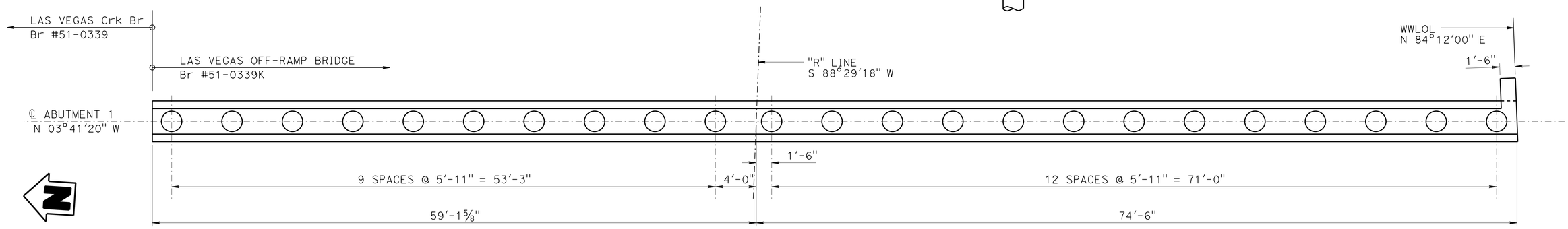
NOTE:

For "SECTION A-A" see "ABUTMENT DETAILS NO. 1" sheet



ABUTMENT ELEVATION

1" = 5'-0"



ABUTMENT PLAN AND PILE LAYOUT

1" = 5'-0"

DESIGN	BY M. CULLEN	CHECKED H. PEREZ	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY SUSAN NG	CHECKED M. CULLEN	
QUANTITIES	BY R. WASHINGTON	CHECKED G. REYES-GUTIERREZ	

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

BRIDGE NO. 51-0339K
POST MILE 22.3-23.0

LAS VEGAS OFF-RAMP BRIDGE (REPLACE)
ABUTMENT 1 LAYOUT

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3591
PROJECT NUMBER & PHASE: 0500000055-1 CONTRACT NO.: 05-0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
07-19-12		01-09-13	10-04-12	5	19

FILE => 51-0339K-f-a1-lo.dgn

USERNAME => s124496 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:22

LEGEND:

Indicates bottom of footing elevation

NOTES:

1. For "SECTION A-A" see "ABUTMENT DETAILS NO. 1" sheet
2. For Embankment details, See "LIGHTWEIGHT EMBANKMENT DETAILS NO. 1, 2, 3, 4 and 5 sheets

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	22.3/23.0	312	343

MJ Cullen 1-17-13
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

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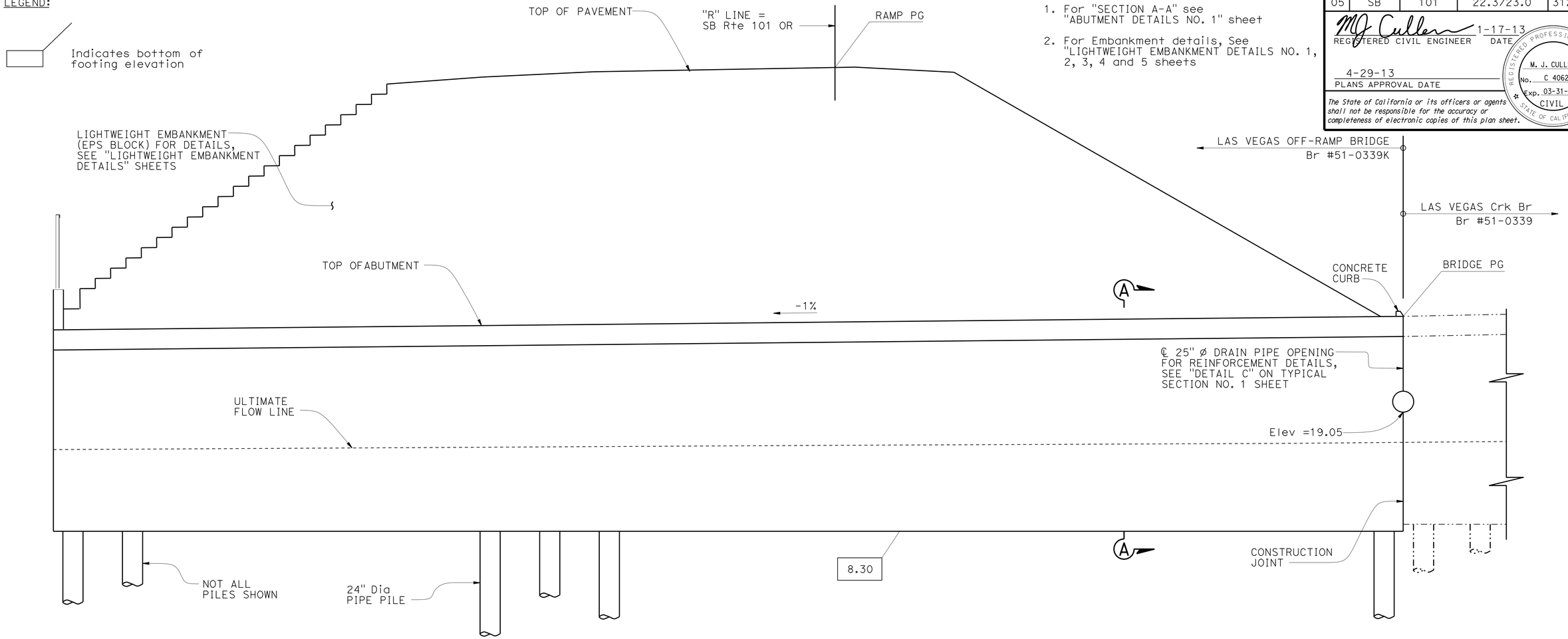
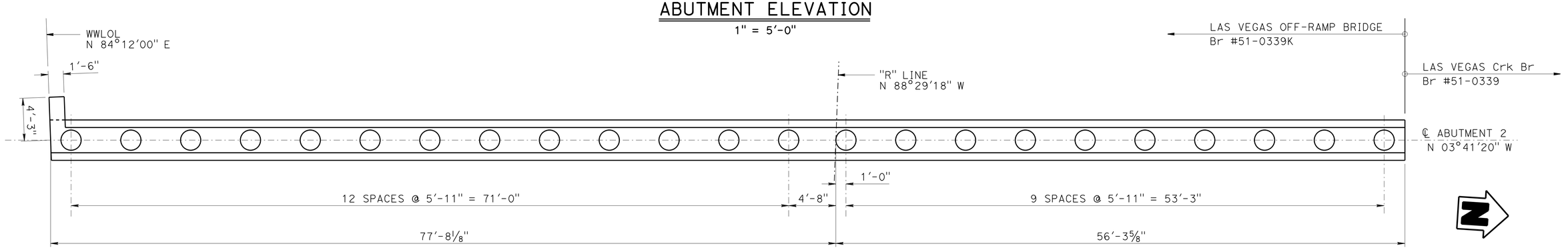


ABUTMENT ELEVATION

1" = 5'-0"



ABUTMENT PLAN AND PILE LAYOUT

1" = 5'-0"

	BY	CHECKED
DESIGN	M. CULLEN	H. PEREZ
DETAILS	SUSAN NG	M. CULLEN
QUANTITIES	R. WASHINGTON	G. REYES-GUTIERREZ

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

BRIDGE NO. 51-0339K
POST MILE 22.3-23.0

LAS VEGAS OFF-RAMP BRIDGE (REPLACE)
ABUTMENT 2 LAYOUT

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3591
PROJECT NUMBER & PHASE: 0500000055-1 CONTRACT NO.: 05-0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES			SHEET	OF
07-26-12	10-04-12	01-09-13	6	19

FILE => 51-0339k-f-a2-lo.dgn

USERNAME => 6124496 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:22

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	22.3/23.0	313	343

MJ Cullen 1-17-13
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — M. J. CULLEN — No. C 40620 — Exp. 03-31-13 — CIVIL — STATE OF CALIFORNIA

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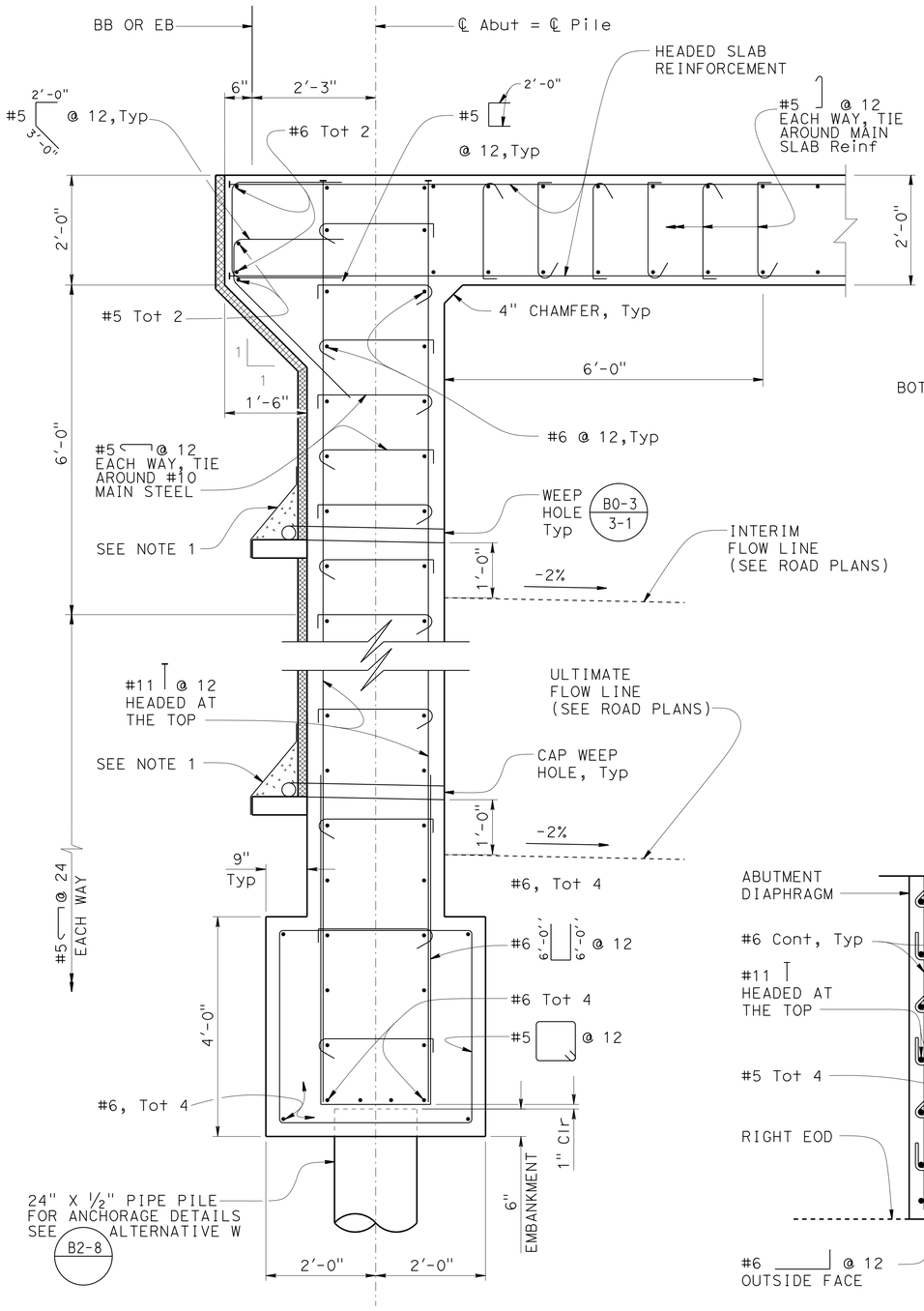
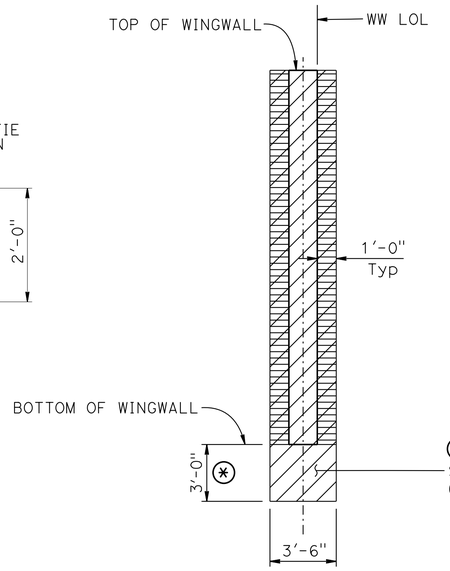
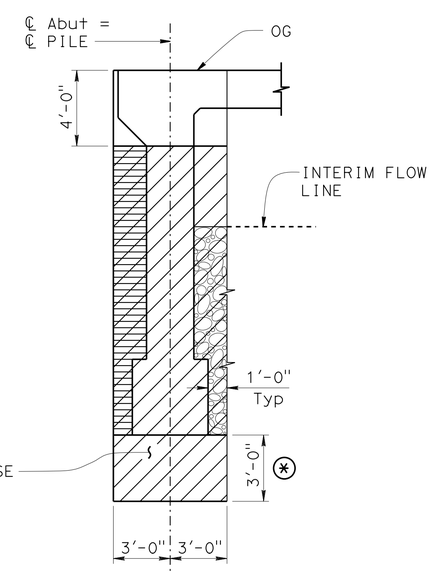


SECTION A-A

¾" = 1'-0"



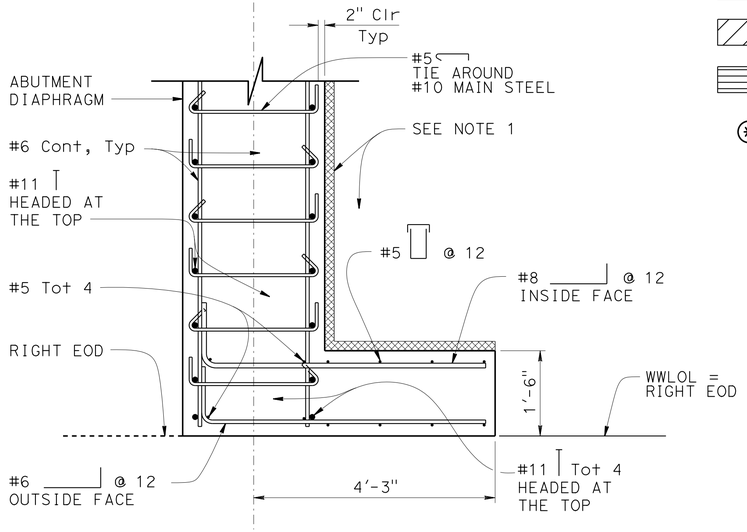
WINGWALL SECTION



ABUTMENTS 1 AND 2

LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL AT ABUTMENTS

¼" = 1'-0"



SECTION B-B

¾" = 1'-0"

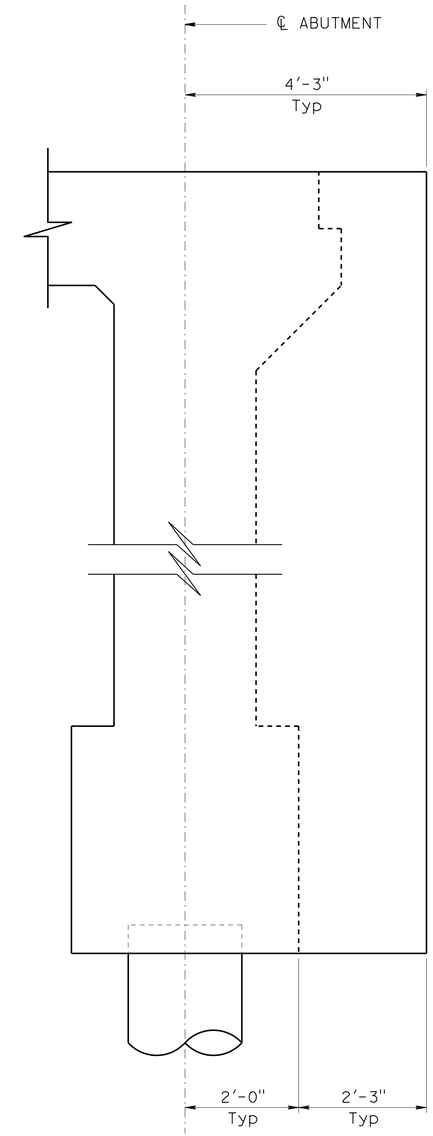
LEGEND:

- Rock Slope Protection See Road Plans
- Structure excavation, Type A
- Structure backfill (Bridge)
- ⊛ Seal course to be placed only when ordered by the Engineer. Estimated quantities involved are based on the seal thickness shown. The thickness to be used will be determined in the field by the Engineer. When seal is not used, the bottom of the reinforced footing shall remain at the elevation shown.

NOTES:

1. Geocomposite Drain, see "STRUCTURE APPROACH DRAINAGE DETAILS" sheet.
2. Joint Seal MR = ½"

B0-1 1-2 and B6-21



WINGWALL ELEVATION

¾" = 1'-0"

	BY	CHECKED
DESIGN	M. CULLEN	H. PEREZ
DETAILS	K. CHONKRIA / S. NG	M. CULLEN
QUANTITIES	R. WASHINGTON	G. REYES-GUTIERREZ

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

BRIDGE NO. 51-0339K
POST MILE 22.3-23.0

LAS VEGAS OFF-RAMP BRIDGE (REPLACE)
ABUTMENT DETAILS NO. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3591
PROJECT NUMBER & PHASE: 0500000055 & 1 CONTRACT NO.: 0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
08-01-12	5-01-13		10-04-13	7	19

FILE => 51-0339k-f-abmt01dt01.dgn

USERNAME => s124496 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:22

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	22.3/23.0	314	343

M J Cullen 1-17-13
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — M. J. CULLEN — No. C 40620 — Exp. 03-31-13 — CIVIL — STATE OF CALIFORNIA

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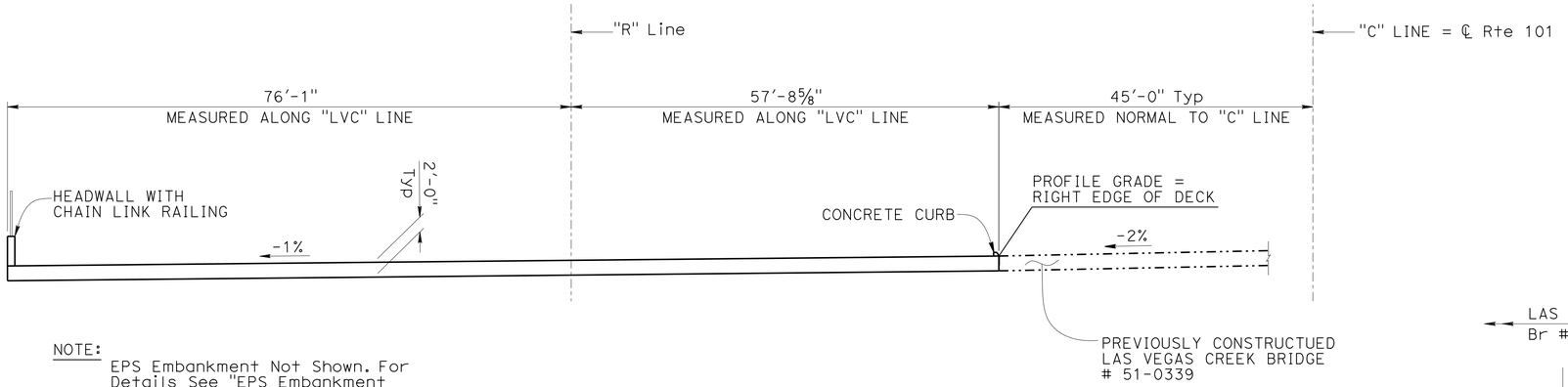
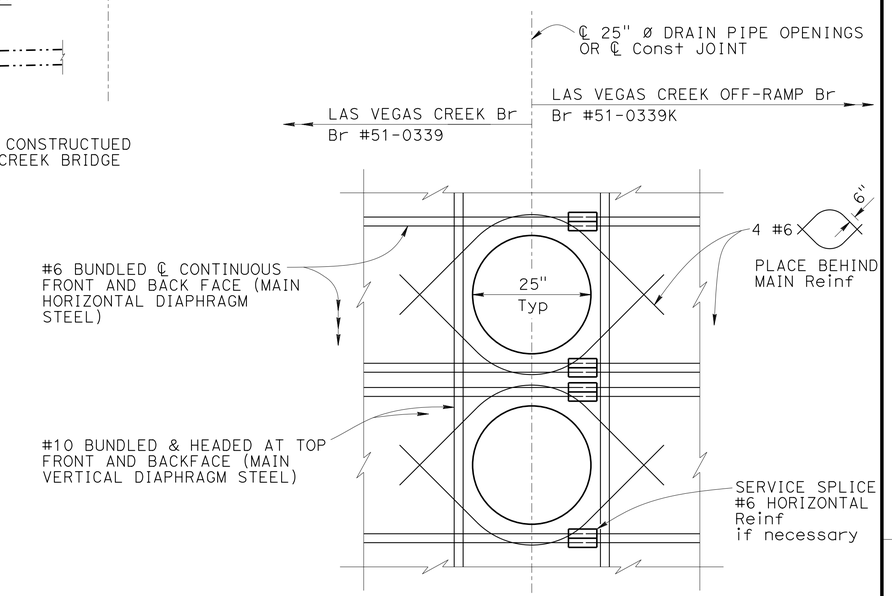


NOTE:
EPS Embankment Not Shown. For Details See "EPS Embankment Details Sheet"

TYPICAL SECTION DECK SLAB

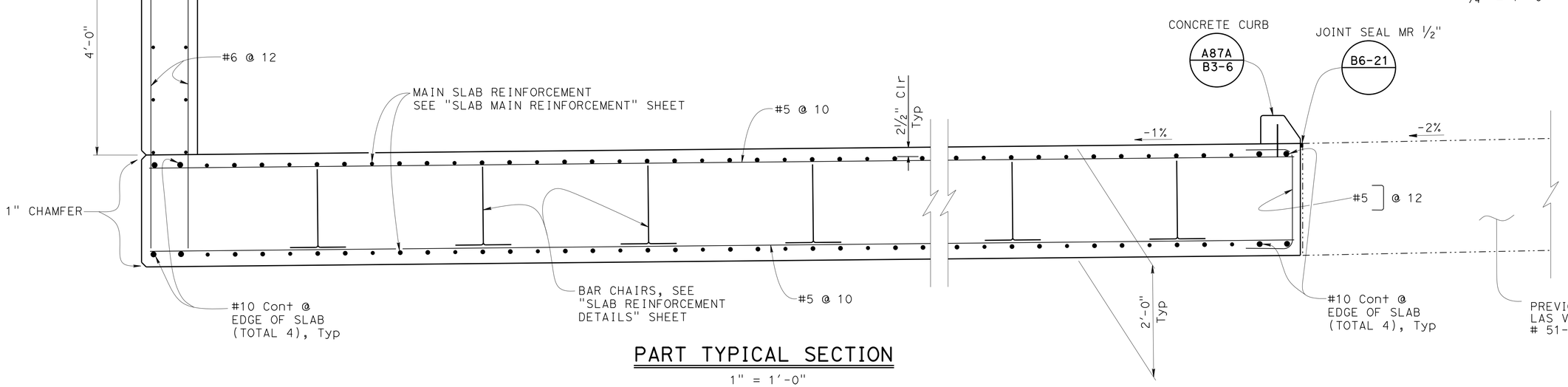
1" = 10'-0"



DETAIL C

¾" = 1'-0"

For Location of "DETAIL C" See "ABUTMENT 1 LAYOUT" and "ABUTMENT 2 LAYOUT" sheets.



PART TYPICAL SECTION

1" = 1'-0"

	BY	CHECKED
DESIGN	M. Cullen	H. Perez
DETAILS	K. Chonkria	H. Perez
QUANTITIES	R. Washington	G. Reyes-Gutierrez

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

BRIDGE NO. 51-0339K
POST MILE 22.3-23.0

LAS VEGAS OFF-RAMP BRIDGE (REPLACE)
TYPICAL SECTION No. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3591
PROJECT NUMBER & PHASE: 0500000055 & 1 CONTRACT NO.: 0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
08-09-12		10-09-12	11-01-12	8	19

FILE => 51-0339K-K-tsO1.dgn

DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:22
USERNAME => s124496

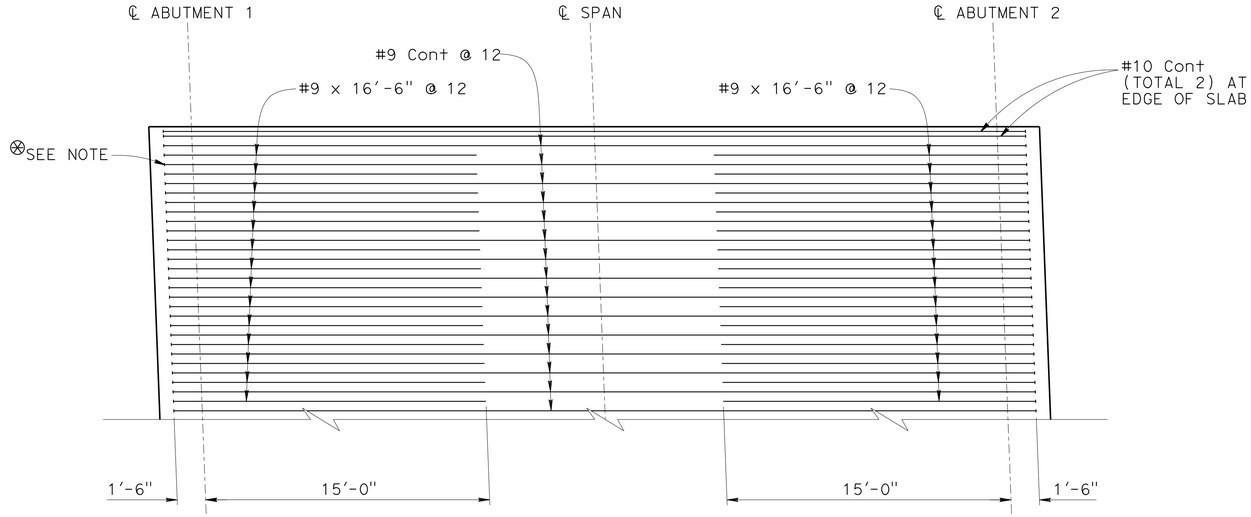
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	22.3/23.0	315	343

REGISTERED CIVIL ENGINEER — 1-17-13 DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — M. J. CULLEN — No. C 40620 — Exp. 03-31-13 — CIVIL — STATE OF CALIFORNIA

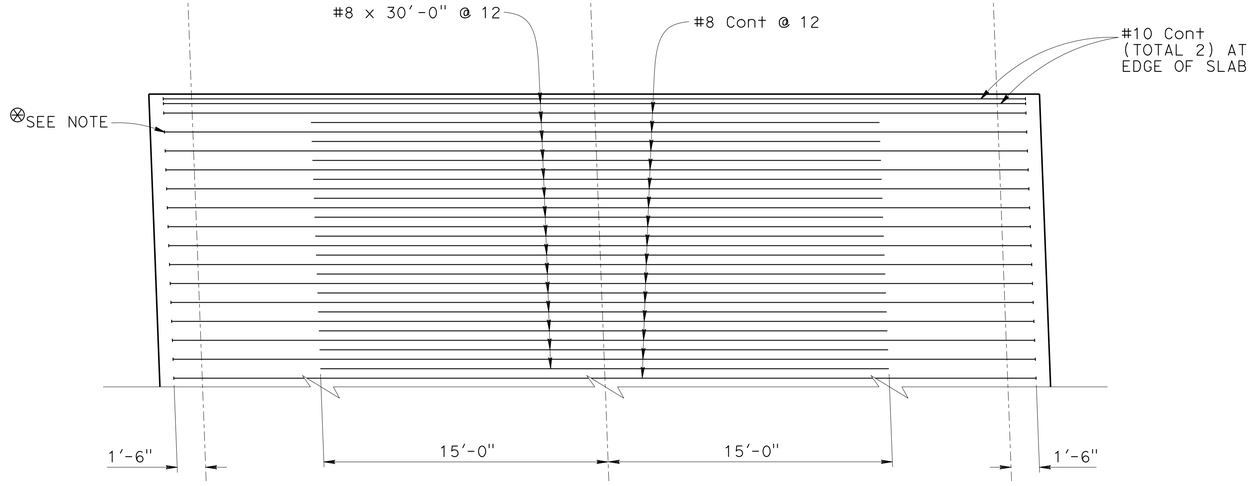
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



⊗ Note:
All Main Reinf shall be Headed at the Abutments, Typ

PART PLAN - TOP SLAB REINFORCEMENT

1/4" = 1'-0"



⊗ Note:
All Main Reinf shall be Headed at the Abutments, Typ

PART PLAN - BOTTOM SLAB REINFORCEMENT

1/4" = 1'-0"

DESIGN	BY M. CULLEN	CHECKED H. PEREZ	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K. CHONKRIA	CHECKED M. CULLEN	
QUANTITIES	BY R. WASHINGTON	CHECKED G. REYES-GUTIERREZ	

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

BRIDGE NO. 51-0339K
POST MILE 22.3-23.0

LAS VEGAS OFF-RAMP BRIDGE (REPLACE)
MAIN SLAB REINFORCEMENT

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3591
PROJECT NUMBER & PHASE: 0500000055 & 1 CONTRACT NO.: 0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-06-12				9	19

FILE => 51-0339k-i-si-rf01.dgn

USERNAME => s124496 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:22

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	22.3/23.0	316	343

M J Cullen 1-17-13
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

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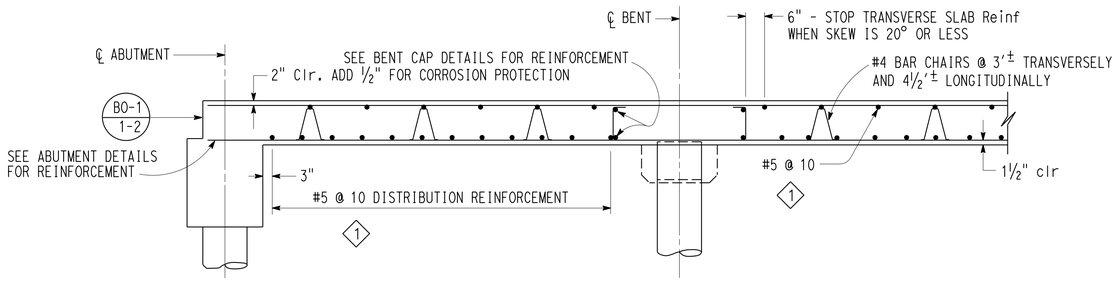
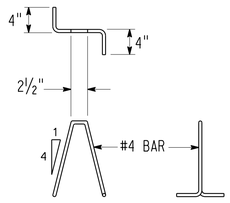
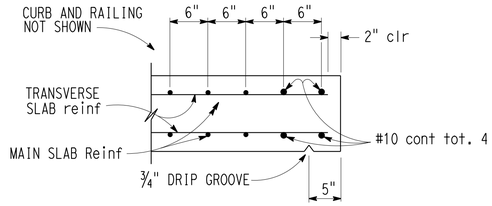
REGISTERED PROFESSIONAL ENGINEER — M. J. CULLEN — No. C 40620 — Exp. 03-31-13 — CIVIL — STATE OF CALIFORNIA



LONGITUDINAL SECTION



BAR CHAIR DETAIL

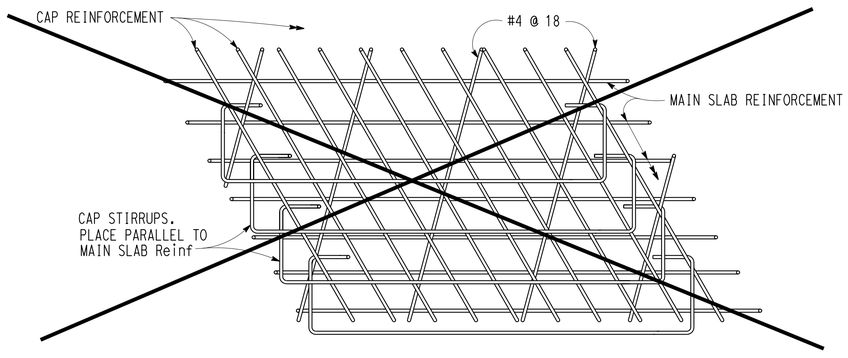


EDGE OF SLAB DETAILS

BAR SPLICE LENGTH								
BAR SIZE	#4	#5	#6	#7	#8	#9	#10	#11
ALL BARS, EXCEPT TOP BARS IN SPANS OVER 24'	23"	28"	34"	39"	45"	68"	76"	85"
TOP BARS IN SPANS OVER 24'	23"	28"	34"	53"	60"	77"	97"	120"

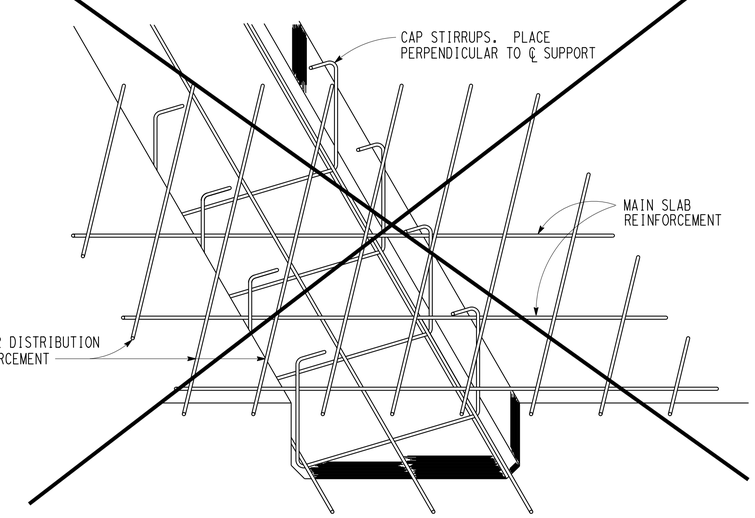
Reinforcement notes:

Splices in top main bars to be located near center of span.
Splices in bottom main bars to be located near bent.
Spacing of all transverse bars is measured along ℄ roadway.
Skew 0° to 20°: Place all transverse bars parallel to bent.
Skew over 20°: Place transverse slab bars perpendicular to ℄ bridge. See details at right and below.

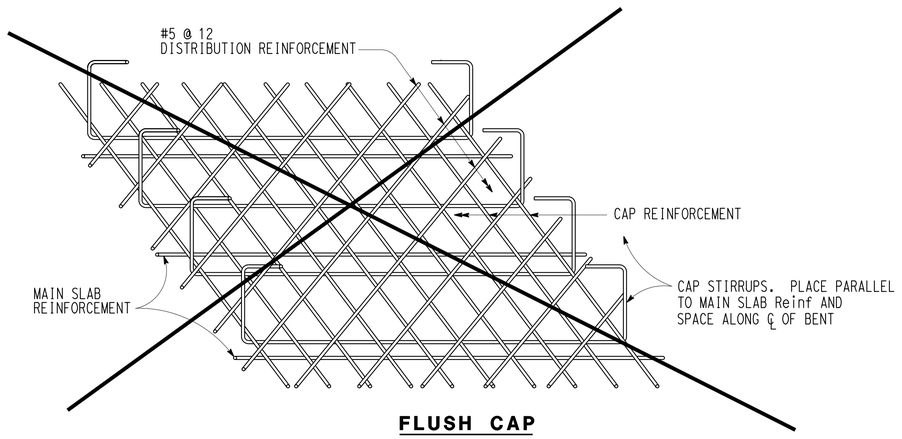


TOP SLAB REINFORCEMENT AT BENT

Note: View for main span over 24'.
Bar placement similar for spans under 24'



DROPPED CAP



FLUSH CAP

BOTTOM SLAB REINFORCEMENT AT BENT

GENERAL NOTES
LOAD FACTOR DESIGN

DESIGN: Bridge Design Specifications
(1983 AASHTO with Interims and Revisions by Caltrans)

DEAD LOAD: Includes 35 psf for future wearing surface.

LIVE LOADING: HS20-44 and alternative and permit design load.

REINFORCED CONCRETE: fy = 60,000 psi
f'c = 3,250 psi
n = 9

REVISED STANDARD DRAWING

FILE NO. xs12-55

APPROVED BY _____ RESPONSIBLE TECHNICAL SPECIALIST
APPROVAL DATE - -

RELEASED BY _____ RESPONSIBLE OFFICE CHIEF
RELEASE DATE - -

1 REVISED NOTE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO. 51-0339K
POST MILE 22.3-23.0

LAS VEGAS OFF-RAMP BRIDGE (REPLACE)
SLAB REINFORCEMENT DETAILS

DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. 01/11/08)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3591
PROJECT NUMBER & PHASE: 0500000055 & 1 CONTRACT NO.: 0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-07-12				10	19

FILE => 51-0339k-r-slab-det.dgn

USERNAME => s124496 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:22

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	22.3/23.0	317	343

REGISTERED CIVIL ENGINEER — 1-17-13 DATE

4-29-13
PLANS APPROVAL DATE

M. J. CULLEN
No. C 40620
Exp. 03-31-13
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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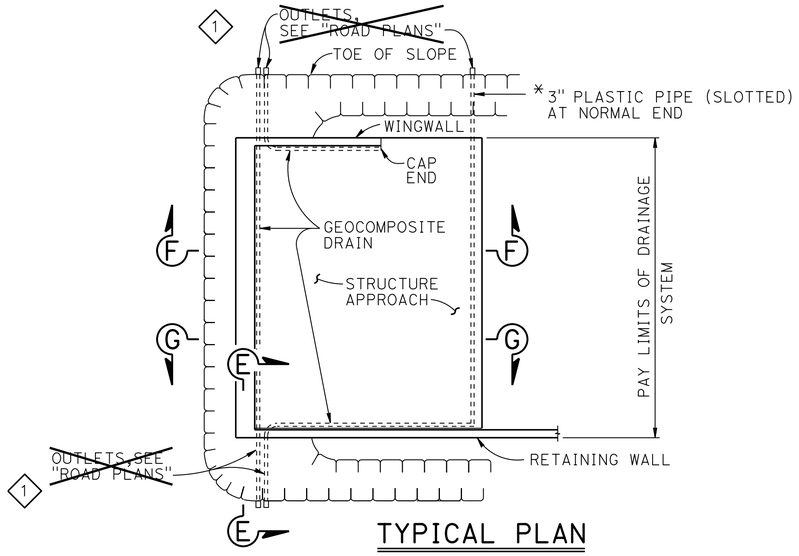
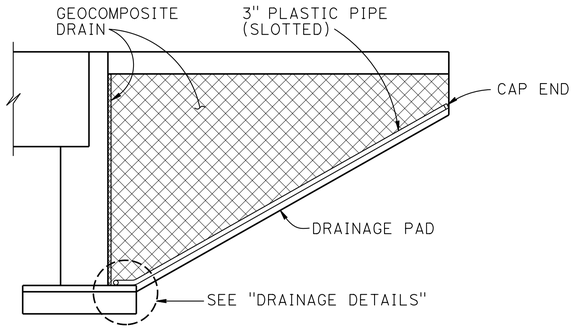


TYPICAL PLAN
1" = 10'

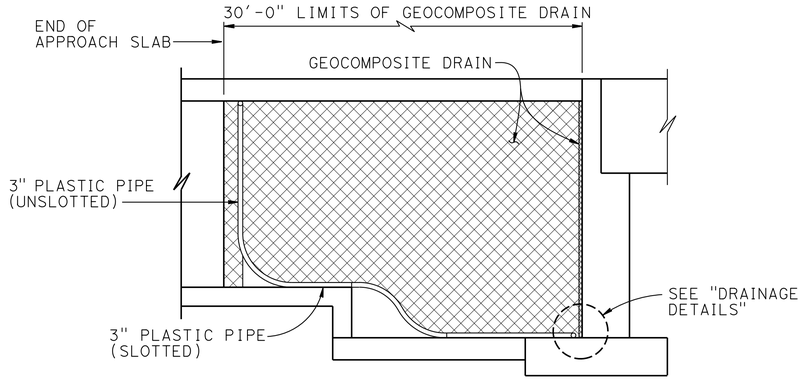
* FOR PIPE LAYOUT AT STAGGERED END, SEE "DETAIL B"



CANTILEVER WINGWALL

SECTION F-F
¼" = 1'-0"

1 Outlets through the Wingwall not required. For further drainage details See "ABUTMENT DETAIL" sheets



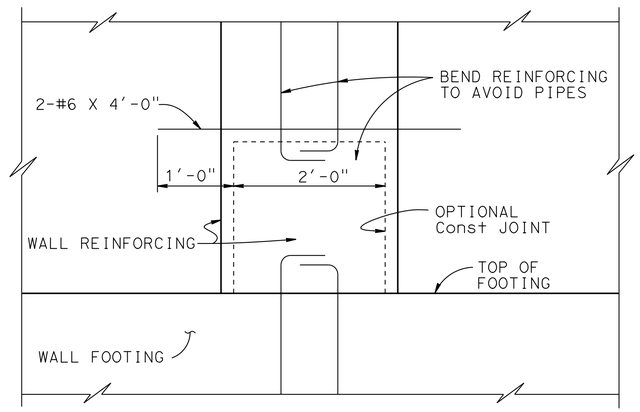
RETAINING WALL WINGWALL DRAINAGE DETAILS

SECTION G-G
¼" = 1'-0"

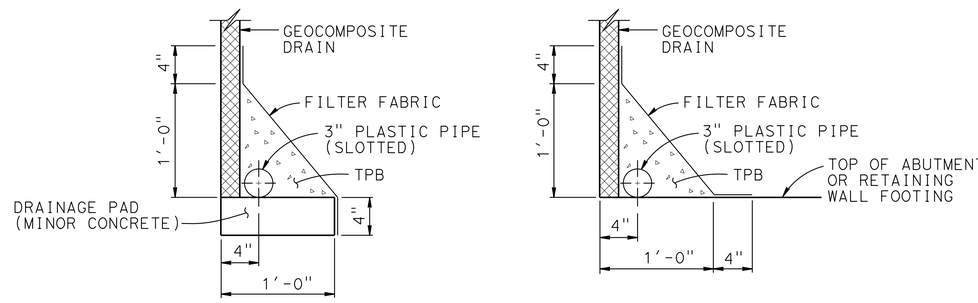
DETAIL B
No Scale

SECTION E-E
½" = 1'-0"

NOTE: Bends and junctions in 3" plastic pipe are 30" radius Min



SECTION H-H
1" = 1'-0"



WITHOUT FOOTING

WITH FOOTING

DRAINAGE DETAILS
1½" = 1'-0"

STANDARD DRAWING		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 51-0339	LAS VEGAS OFF-RAMP BRIDGE (REPLACE)
FILE NO. xs3-110	APPROVAL DATE July 2011			POST MILE 22.3-23.0	STRUCTURE APPROACH DRAINAGE DETAILS

DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02-11)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3591
PROJECT NUMBER & PHASE: 0500000055 & 1 CONTRACT NO.: 0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-07-12	10-04-12			11	19

FILE => 51-0339k-s-sadd-xs3-110.dgn

USERNAME => s1124496 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:22

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	22.3/23.0	318	343

M J Cullen 1-17-13
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — M. J. CULLEN — No. C 40620 — Exp. 03-31-13 — CIVIL — STATE OF CALIFORNIA

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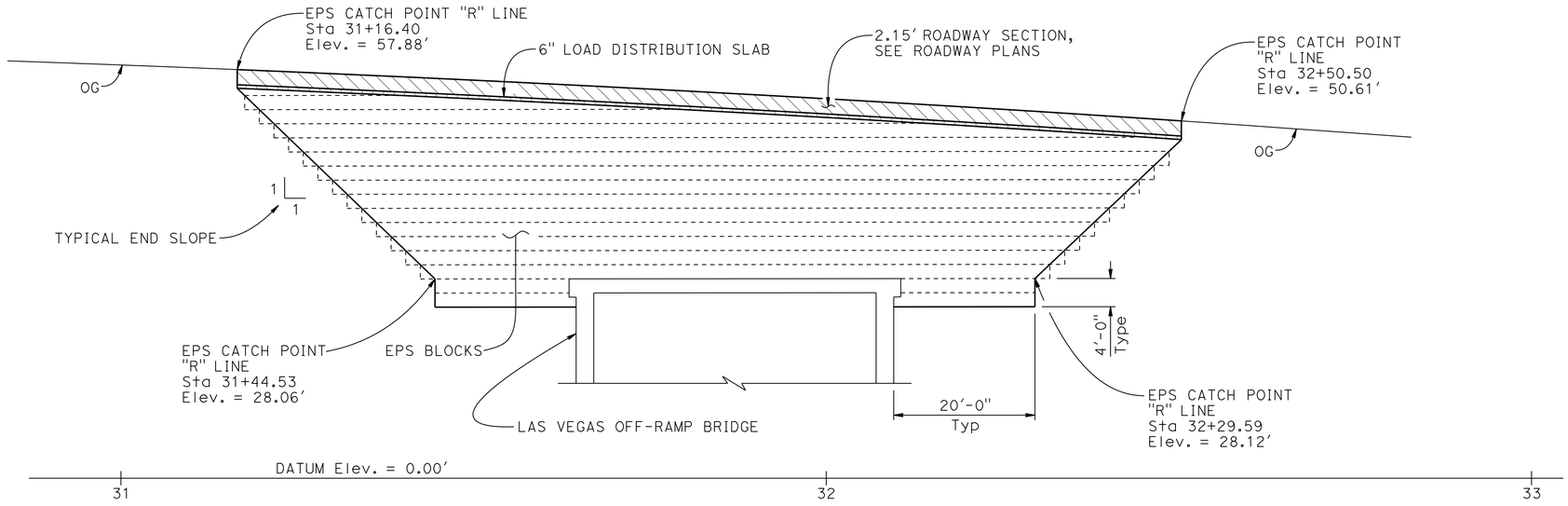


SECTION J-J
1" = 10′-0"

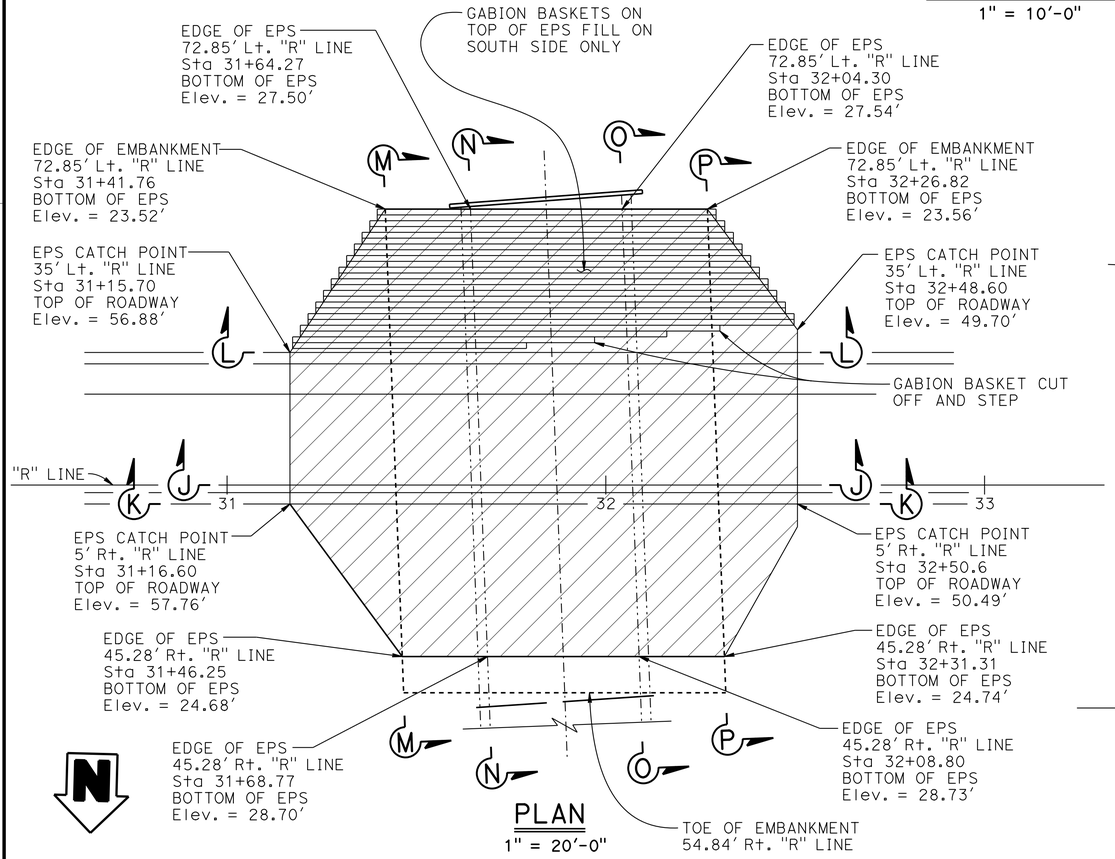
NOTES:

- Indicates limits of Expanded Polystyrene (EPS) Lightweight Embankment.

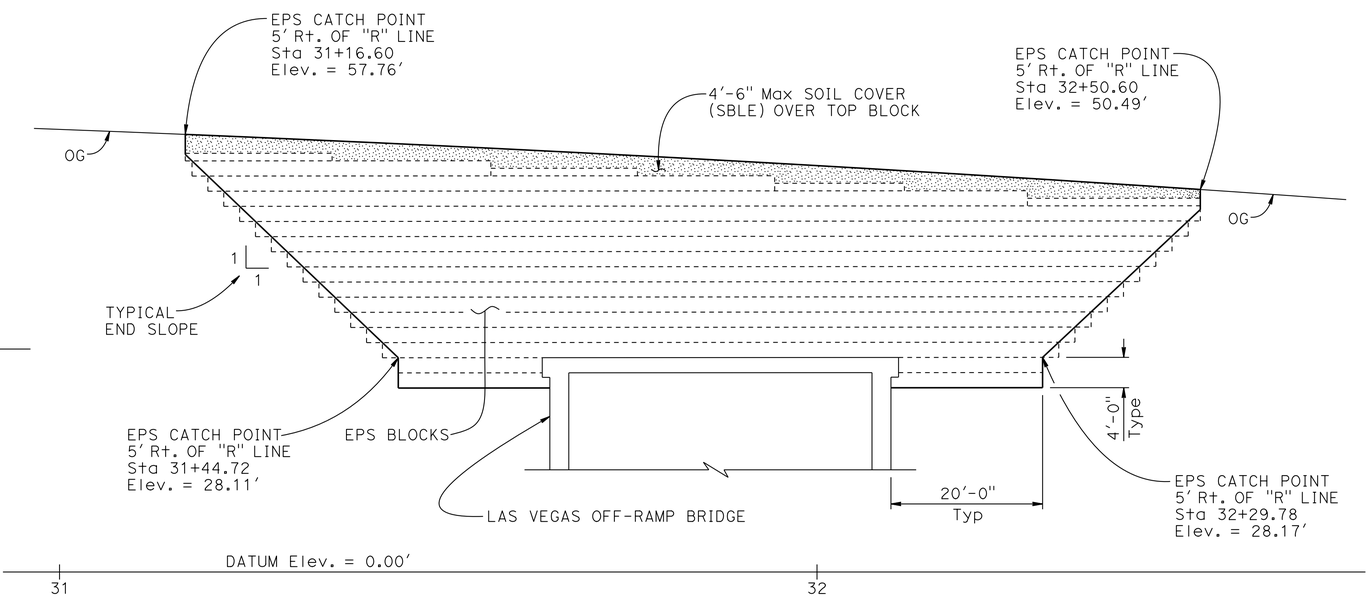
For SECTIONS "L-L" and "M-M", see "LIGHTWEIGHT EMBANKMENT DETAILS NO.2" sheet.

For SECTIONS "N-N" and "O-O", see "LIGHTWEIGHT EMBANKMENT DETAILS NO.3" sheet.

For SECTION "P-P", see "LIGHTWEIGHT EMBANKMENT DETAILS NO.4" sheet.



PLAN
1" = 20′-0"



SECTION K-K
1" = 10′-0"

DESIGN	BY M. CULLEN	CHECKED H. PEREZ	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO. 51-0339K
DETAILS	BY D. PATO	CHECKED M. CULLEN			POST MILE 22.3-23.0
QUANTITIES	BY H. PEREZ	CHECKED M. CULLEN			

LAS VEGAS OFF-RAMP BRIDGE (REPLACE)
LIGHTWEIGHT EMBANKMENT DETAILS NO.1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3591
PROJECT NUMBER & PHASE: 0500000055-1 CONTRACT NO.: 05-0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
7-19-12	08-23-12	09-13-12		12	19

FILE => 51-0339k-y-lwembankdet1.dgn

DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:22
USERNAME => s124096

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	22.3/23.0	319	343

REGISTERED CIVIL ENGINEER — 1-17-13 DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — M. J. CULLEN — No. C 40620 — Exp. 03-31-13 — CIVIL — STATE OF CALIFORNIA

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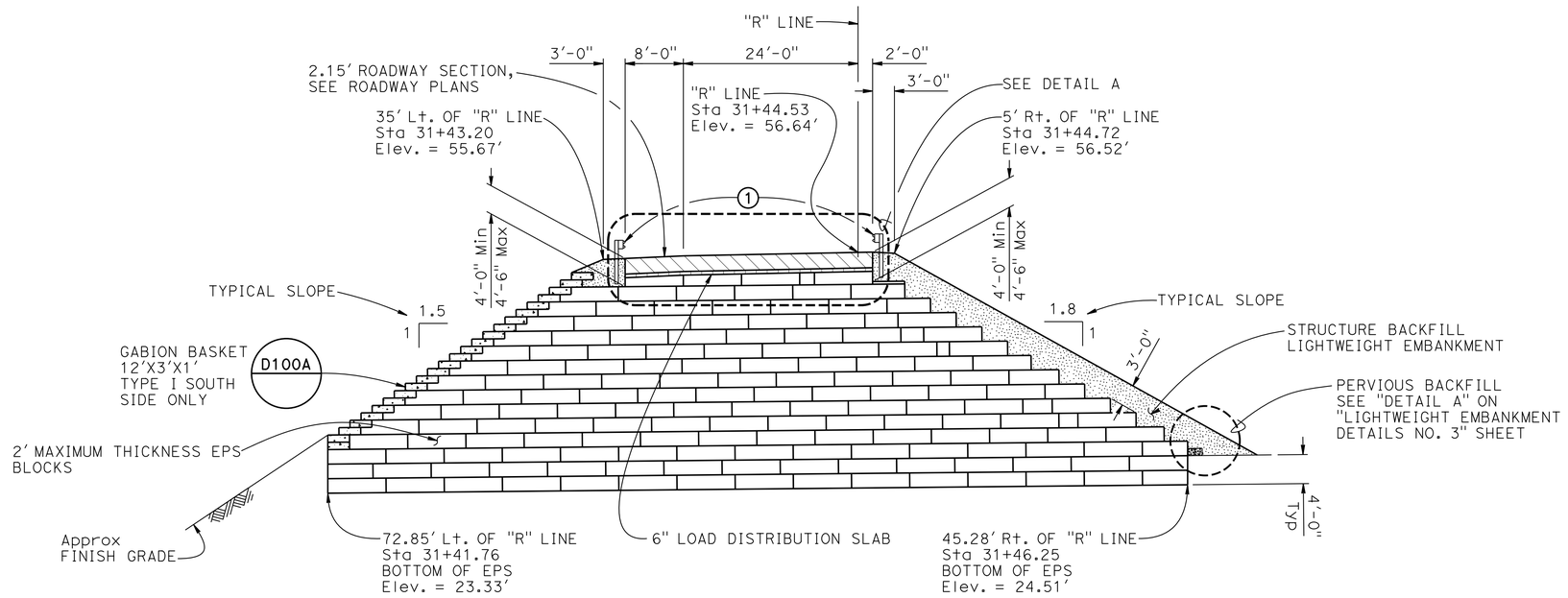
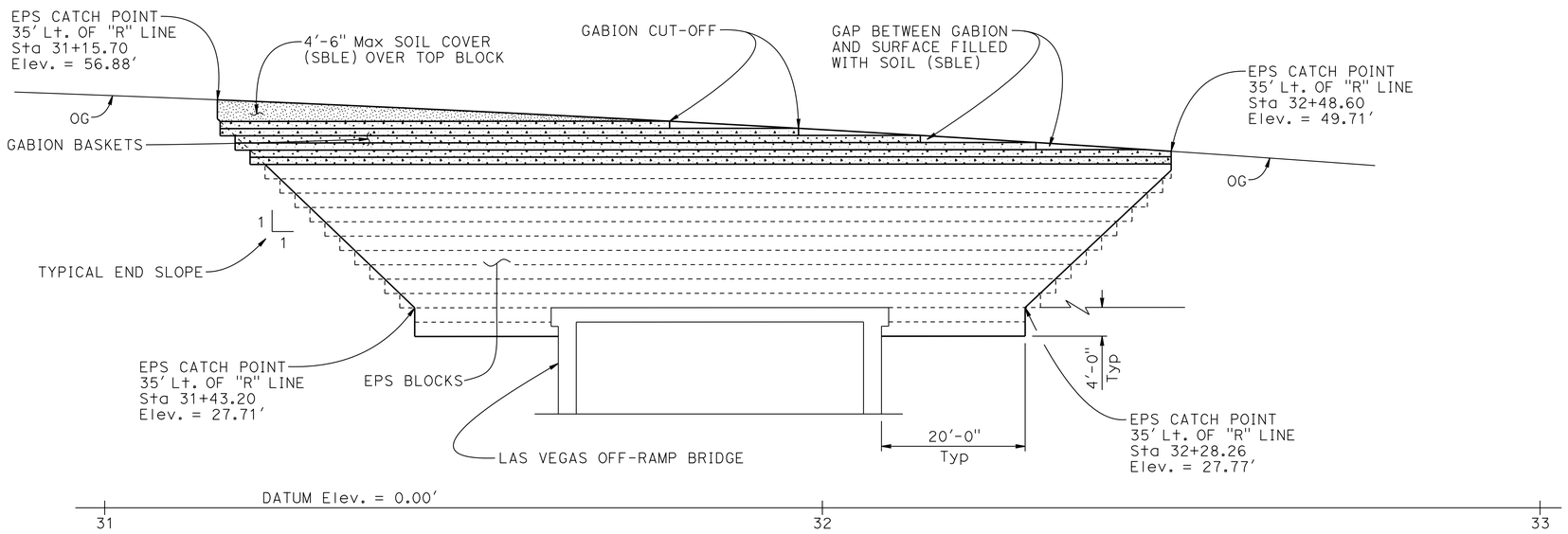


SECTION M-M

1" = 10'-0"

NOTE:

(1) - Metal Beam Guard Rail (Steel Post), see "Road Plans".



SECTION L-L

1" = 10'-0"

DESIGN	BY M. CULLEN	CHECKED H. PEREZ	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO. 51-0339K
DETAILS	BY D. PATO	CHECKED M. CULLEN			POST MILE 22.3-23.0
QUANTITIES	BY H. PEREZ	CHECKED M. CULLEN			

LAS VEGAS OFF-RAMP BRIDGE (REPLACE)
LIGHTWEIGHT EMBANKMENT DETAILS NO.2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3591
PROJECT NUMBER & PHASE: 0500000055-1 CONTRACT NO.: 05-0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
8-8-12	08-23-12	09-13-12	01-09-13	13	19

FILE => 51-0339K-y-lwembankdet2.dgn

DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:22
USERNAME => s124496

Note:

1. For Detail A, See "LIGHTWEIGHT EMBANKMENT DETAILS NO. 4" Sheet
2. For Typical Embankment Details not shown See "LIGHTWEIGHT EMBANKMENT DETAILS NO.5"sheet

Legend:

Indicates Structure Backfill Lightweight Embankment (SBLE)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	22.3/23.0	320	343

M J Cullen 1-17-13
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — M. J. CULLEN — No. C 40620 — Exp. 03-31-13 — CIVIL — STATE OF CALIFORNIA

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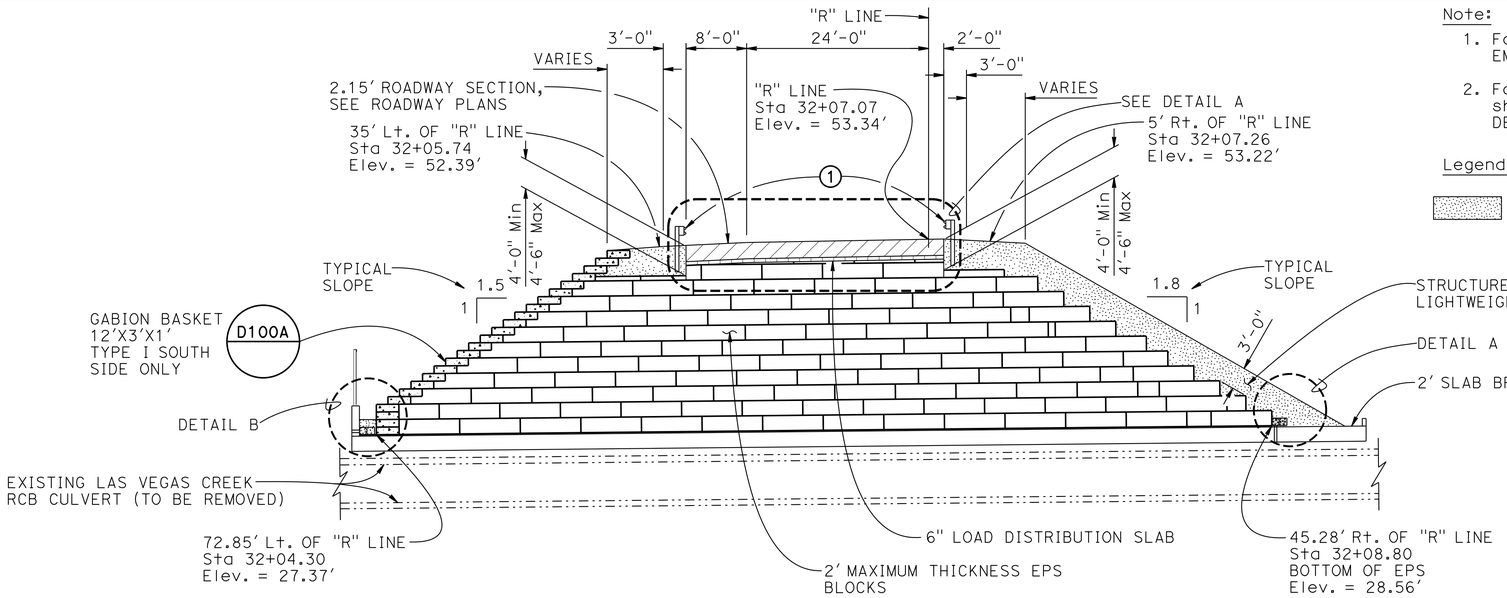
Note:

1. For Detail A, See "LIGHTWEIGHT EMBANKMENT DETAILS NO. 4" Sheet
2. For Typical Embankment Details not shown See "LIGHTWEIGHT EMBANKMENT DETAILS NO.5"sheet

Legend:

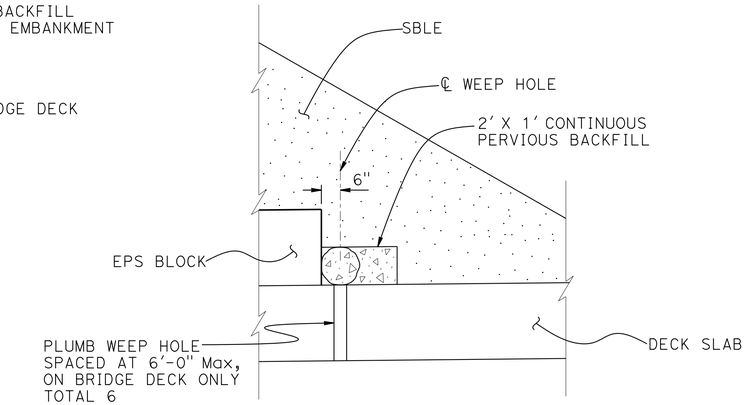
Indicates Structure Backfill Lightweight Embankment (SBLE)



SECTION O-O
1" = 10'-0"

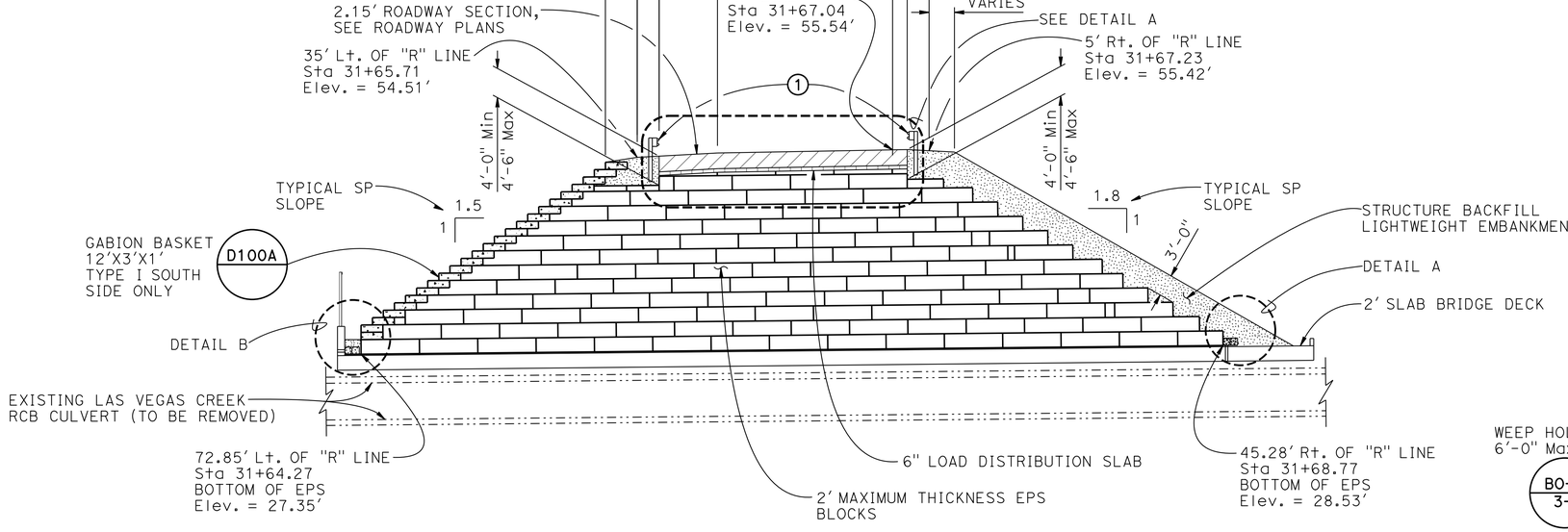
NOTE:

(1) - Metal Beam Guard Rail (Steel Post), see "Road Plans".

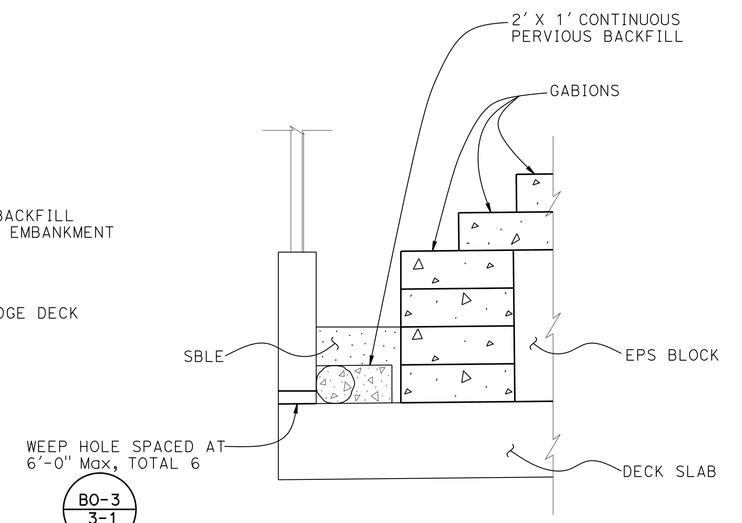


BO-3 / 3-1

DETAIL A
½" = 1'-0"



SECTION N-N
1" = 10'-0"



BO-3 / 3-1

DETAIL B
½" = 1'-0"

DESIGN	BY M. CULLEN	CHECKED H. PEREZ	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO. 51-0339K
DETAILS	BY D. PATO	CHECKED M. CULLEN			POST MILE 22.3-23.0
QUANTITIES	BY H. PEREZ	CHECKED M. CULLEN			

LAS VEGAS OFF-RAMP BRIDGE (REPLACE)
LIGHTWEIGHT EMBANKMENT DETAILS NO.3

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

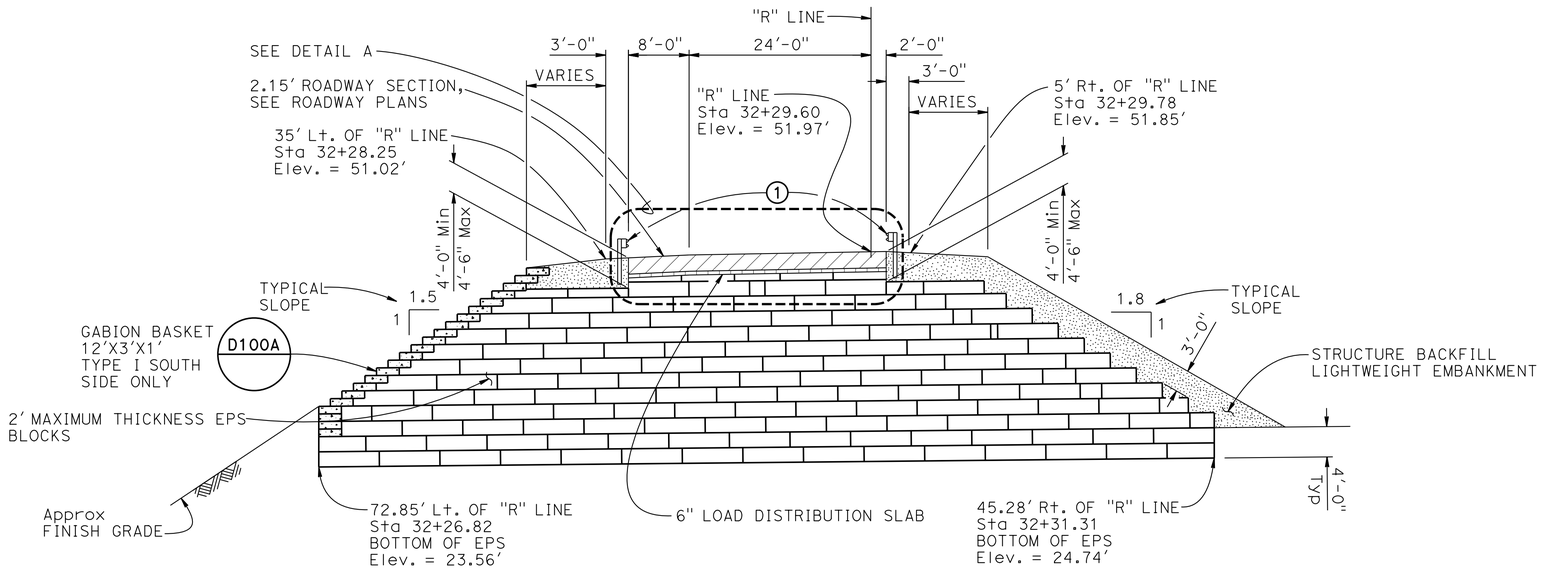
UNIT: 3591
PROJECT NUMBER & PHASE: 0500000055-1 CONTRACT NO.: 05-0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES			SHEET	OF
8-30-12	10-04-12	01-09-13	14	19

FILE => 51-0339k-y-lwembankdet3.dgn

DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:23
USERNAME => s124496



SECTION P-P

1" = 10'-0"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	22.3/23.0	321	343

REGISTERED CIVIL ENGINEER — 1-17-13 DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — M. J. CULLEN, No. C 40620, Exp. 03-31-13, CIVIL, STATE OF CALIFORNIA

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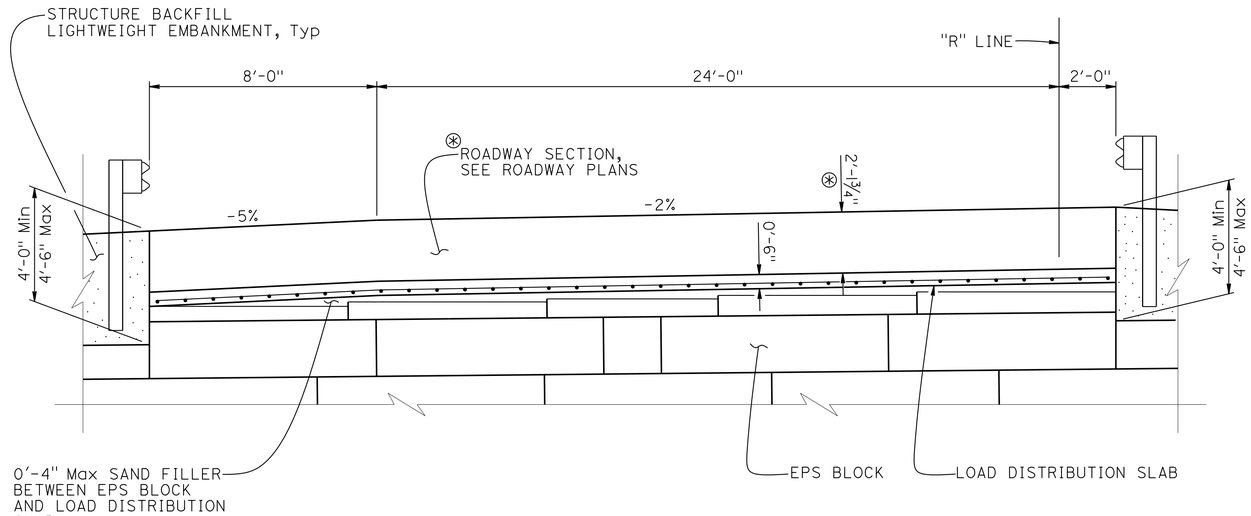
Note:

1. For Typical Embankment Details not shown See "LIGHTWEIGHT EMBANKMENT DETAILS NO.5"sheet

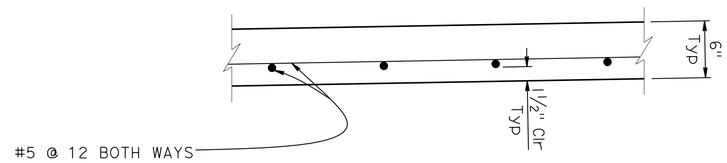
Legend:

Indicates Structure Backfill Lightweight Embankment



DETAIL A

⅜" = 1'-0"



LOAD DISTRIBUTION SLAB PART SECTION

1½" = 1'-0"

DESIGN	BY M. CULLEN	CHECKED H. PEREZ	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO. 51-0339K
DETAILS	BY D. PATO	CHECKED M. CULLEN			POST MILE 22.3-23.0
QUANTITIES	BY H. PEREZ	CHECKED M. CULLEN			

LAS VEGAS OFF-RAMP BRIDGE (REPLACE)
LIGHTWEIGHT EMBANKMENT DETAILS NO.4

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3591
PROJECT NUMBER & PHASE: 0500000055-1 CONTRACT NO.: 05-0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
8-23-12	08-29-12	09-17-12	09-27-12	15	19

FILE => 51-0339K-y-lwembankdet4.dgn

USERNAME => s124496 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:23

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	22.3/23.0	322	343

M J Cullen 1-17-13
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — M. J. CULLEN — No. C 40620 — Exp. 03-31-13 — CIVIL — STATE OF CALIFORNIA

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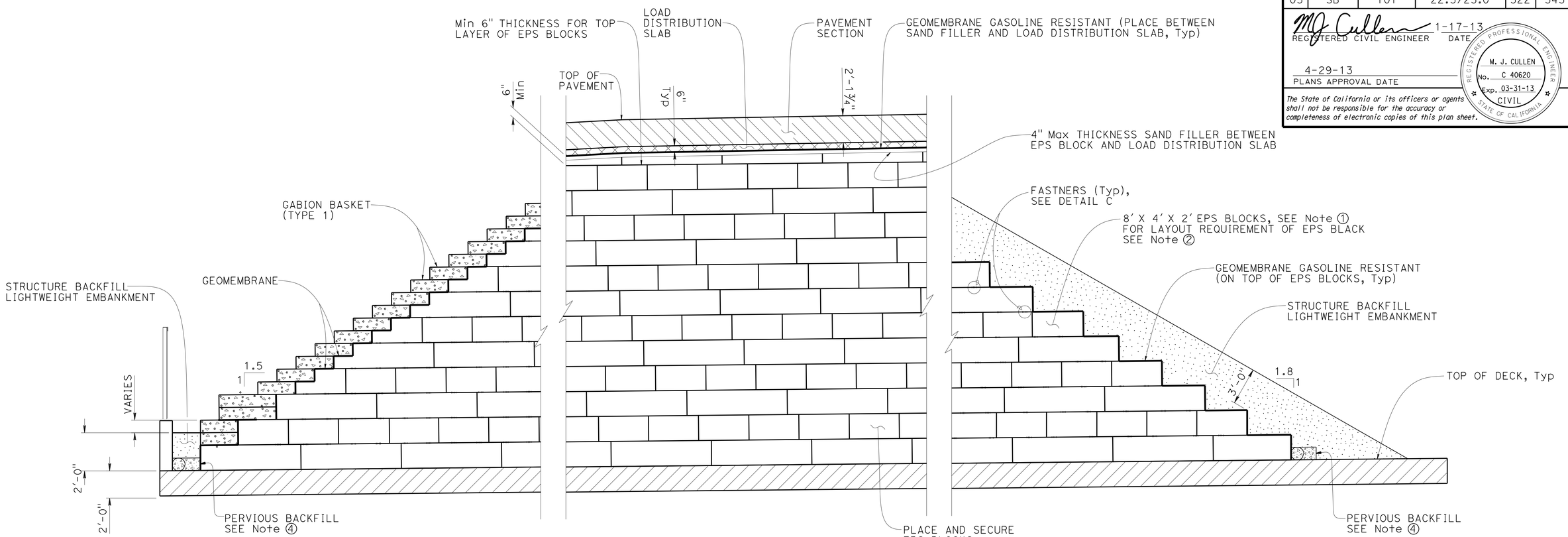
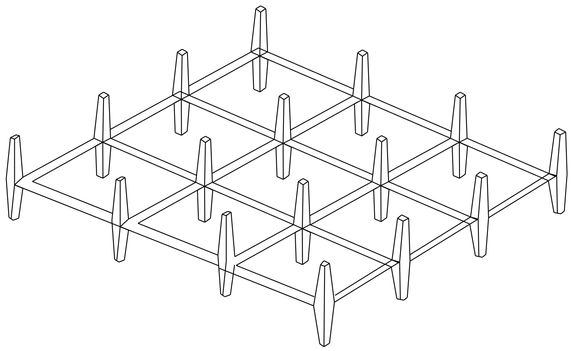


FOR DETAILS NOT SHOWN
SEE "LIGHTWEIGHT EMBANKMENT DETAILS NO. 1 THRU 4" SHEETS

PART SECTION

1/4" = 1'-0"



Typical metal or timber fastener: Approximate Size 4 1/8" x 4 1/8" x 1" deep
Bolt hole size to 1" (See Note 3)

DETAIL C

No Scale

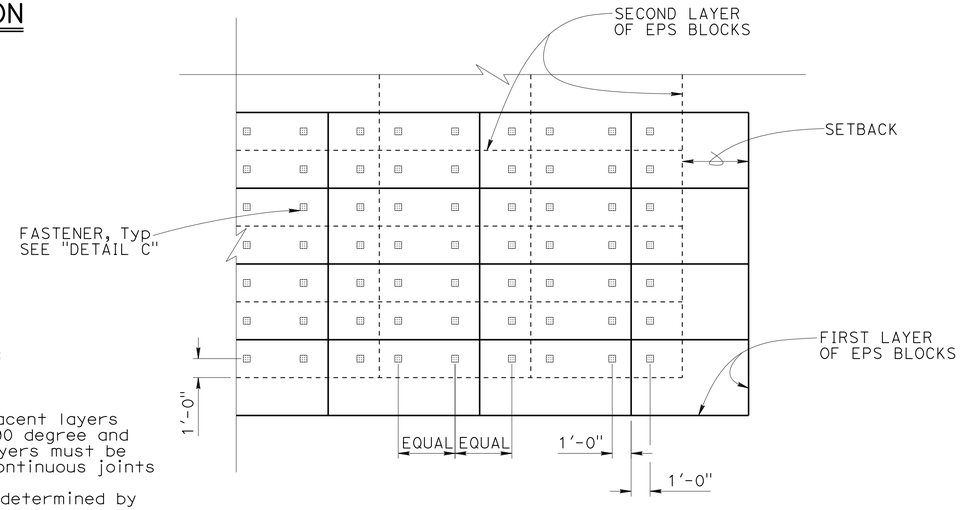
Note:

① EPS blocks allowable thickness:
2'-0" maximum
0'-6" minimum

② The long axis of blocks in adjacent layers must be rotated horizontally 90 degree and edges of blocks in adjacent layers must be offset as shown to minimize continuous joints

③ Actual size of fastener to be determined by the manufacturer

④ For Pervious Backfill Details See "DETAIL A" and "DETAIL B" on "LIGHTWEIGHT EMBANKMENT DETAILS NO. 3" sheet



PART PLAN VIEW

1/4" = 1'-0"

DESIGN	BY M. CULLEN	CHECKED H. PEREZ	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO. 51-0339K
DETAILS	BY K. CHONKRIA	CHECKED M. CULLEN			POST MILE 22.3-23.0
QUANTITIES	BY H. PEREZ	CHECKED M. CULLEN			

LAS VEGAS OFF-RAMP BRIDGE (REPLACE)
LIGHTWEIGHT EMBANKMENT DETAILS NO.5

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3591
PROJECT NUMBER & PHASE: 0500000055 & 1 CONTRACT NO.: 0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-14-12		01-10-13	09-27-12	16	19

FILE => 51-0339K-y-lwembankdet5.dgn

USERNAME => s124496 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:23

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	22.3/23.0	323	343

Ryan Turner 8-29-12
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Ryan Turner — No. C73956 — Exp. 6-30-13 — CIVIL — STATE OF CALIFORNIA

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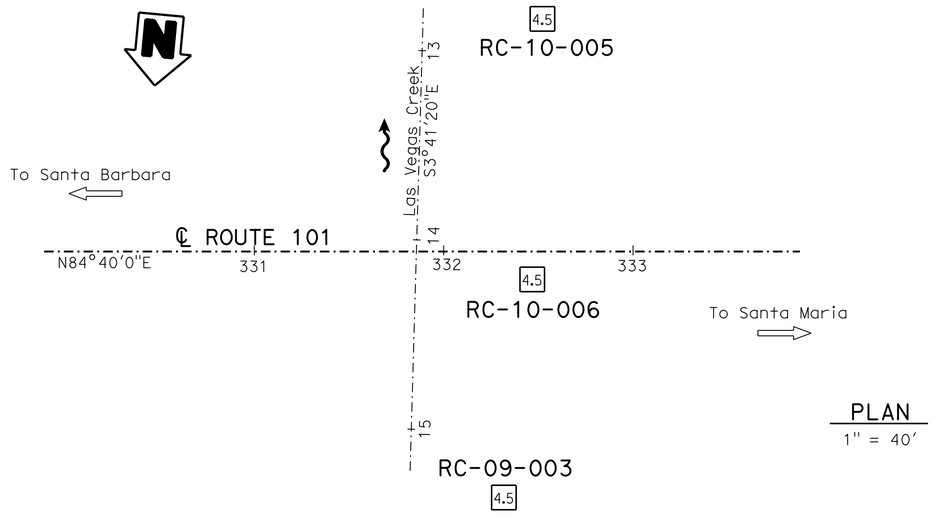
This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition).

See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

BENCH MARK

SB 101 PM 22.77

Fnd 1" IP w/ CDOT PP & nail
61.23' Lt ℄ Rte 101,
Sta 342+50.79
N 1987185.57
E 6007989.41
Elev 29.03'
Vert Datum: NAVD88



PLAN
1" = 40'

Note: Ground water not measured on Borings RC-09-003 and RC-10-006.

130.4' Rt Sta 332+31.8
℄ ROUTE 101

RC-09-003

30.3' 4.5

SILTY SAND (SM); yellowish brown; moist; mostly fine SAND; some fines.

15 | 1.4 — SANDY lean CLAY (CL); hard; brown; moist; some from fine and coarse subangular SAND; PP=4.0 tsf.
PI CR — Lean CLAY (CL); very soft; very dark brown; moist; trace medium and coarse SAND; PP=0.25 tsf.
23 | 1.4 — Lean CLAY with SAND (CL); hard; brown; moist; little medium and coarse subangular SAND; PP>4.5 tsf.
22 | 1.4 PI M
70 | 1.4 CR — SILTY SAND (SM); very dense; yellowish brown; moist; mostly fine and medium SAND; some fines.
21 | 1.4 — Fat CLAY (CH); hard; brown; moist; PP=4.0 tsf.
-pale yellowish brown.
77/11 | 1.4 — Poorly-graded SAND with SILT (SP-SM); very dense; pale yellowish brown; moist; mostly fine SAND; few fines.
80 | 1.4 — -mostly medium and fine SAND.
-6" lens of shells in SAND.
91 | 1.4 — -strong cementation.
CR
26 | 1.4 — SILT (ML); medium dense; yellowish brown; moist; trace fine SAND.
PA PI
33 | 1.4 — -dense.
-olive gray.
80 | 1.4 — -very dense.
-very dark grayish brown.
81/11 | 1.4 — -very dark gray.
58 | 1.4
75/11 | 1.4
59 | 1.4
48 | 1.4 — -dense.
58 | 1.4 — -very dense.
50/6 | 1.4
REF | 1.4 — SILTY SAND (SM); very dense; grayish brown; moist; mostly fine and medium SAND; some fines; lenses of shells.

12-9-09
Terminated at Elev -70.8'
ER$_j$ = 60%

30 20 10 0 -10 -20 -30 -40 -50 -60 -70

332+00 333+00 334+00

PROFILE
Horiz: 1" = 10'
Vert: 1" = 10'

ENGINEERING SERVICES		GEOTECHNICAL SERVICES			
FUNCTIONAL SUPERVISOR	DRAWN BY: I.G-Remmen	FIELD INVESTIGATION BY:	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO. 51-0339K / POST MILE 22.3-23.0
NAME: M. Finegan	CHECKED BY: D. Appelbaum	R. Turner			LAS VEGAS OFF-RAMP BRIDGE (REPLACE)
					LOG OF TEST BORINGS 1 OF 3

OGS CIVIL LOG OF TEST BORINGS SHEET

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3643
PROJECT NUMBER & PHASE: 0500000055 & 1 CONTRACT NO.: 05-0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
08-08-12	08-14-12	08-28-12		17	19

FILE => 51-0339k-z-ltb01.dgn

USERNAME => s124496 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:23

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	22.3/23.0	324	343

Ryan Turner 8-29-12
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Ryan Turner No. C73956 Exp. 6-30-13 CIVIL — STATE OF CALIFORNIA

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FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS" 1 OF 3

PROFILE
Horiz: 1" = 10'
Vert: 1" = 10'

ENGINEERING SERVICES	GEOTECHNICAL SERVICES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO. 51-0339K	LAS VEGAS OFF-RAMP BRIDGE (REPLACE)
FUNCTIONAL SUPERVISOR NAME: M. Finegan	DRAWN BY: I.G-Remmen CHECKED BY: D. Appelbaum	FIELD INVESTIGATION BY: R. Turner		POST MILE 22.3-23.0	LOG OF TEST BORINGS 2 OF 3

OGS CIVIL LOG OF TEST BORINGS SHEET — ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3643
PROJECT NUMBER & PHASE: 0500000055 & 1 CONTRACT NO.: 05-0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-09-12	08-14-12	08-28-12		18	19

FILE => 51-0339k-z-ltb02.dgn

USERNAME => s124496 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:23

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	22.3/23.0	325	343

Ryan Turner 8-29-12
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Ryan Turner No. C73956 Exp. 6-30-13 CIVIL — STATE OF CALIFORNIA

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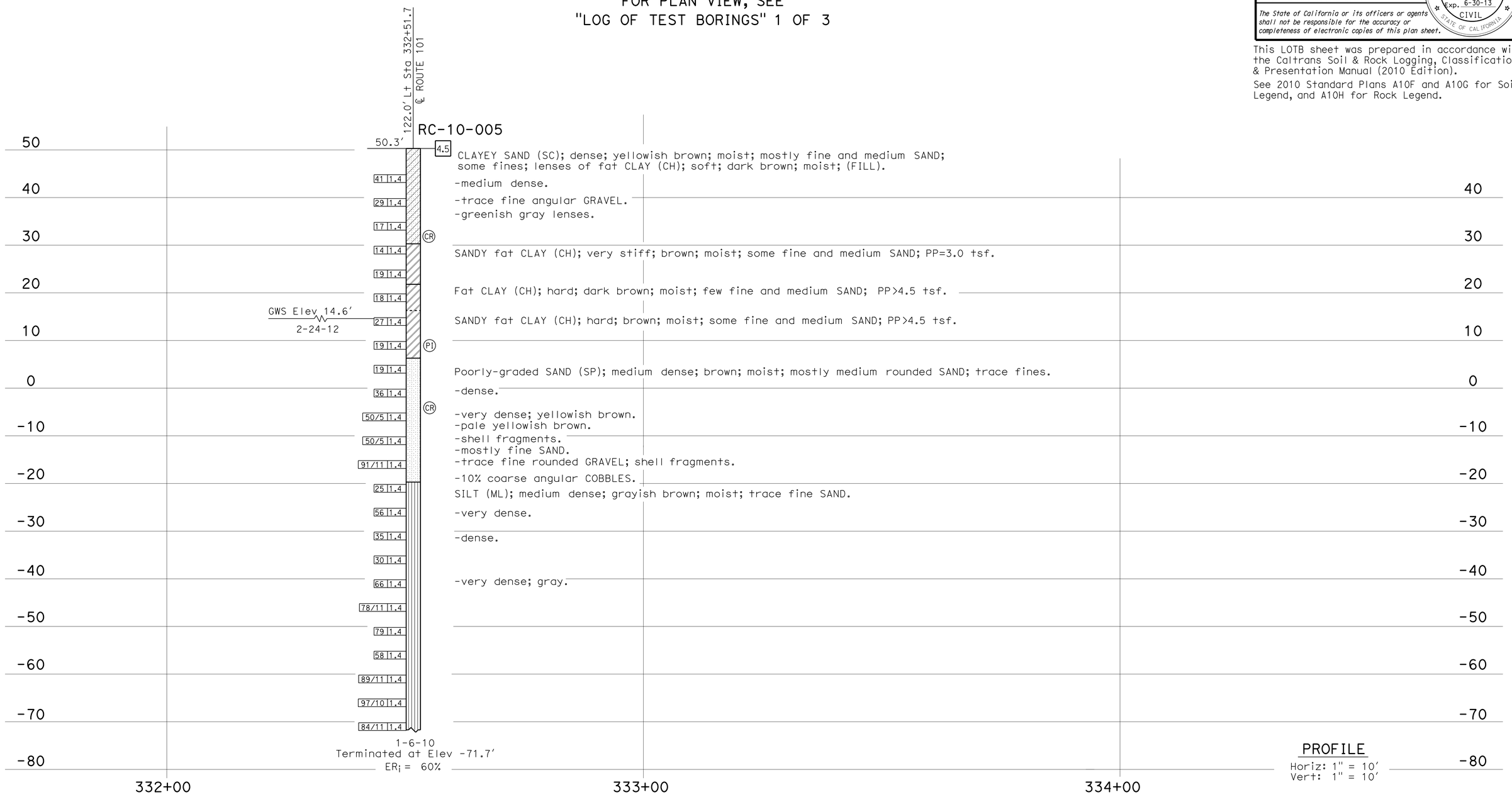
FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS" 1 OF 3



PROFILE
Horiz: 1" = 10'
Vert: 1" = 10'

ENGINEERING SERVICES	GEOTECHNICAL SERVICES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN	BRIDGE NO.	LAS VEGAS OFF-RAMP BRIDGE (REPLACE)
FUNCTIONAL SUPERVISOR	DRAWN BY: I.G-Remmen		DESIGN BRANCH 6	51-0339	LOG OF TEST BORINGS 3 OF 3
NAME: M. Finegan	CHECKED BY: D. Appelbaum	FIELD INVESTIGATION BY: R. Turner		POST MILE 22.3-23.0	

OGS CIVIL LOG OF TEST BORINGS SHEET

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3643
PROJECT NUMBER & PHASE: 0500000055 & 1 CONTRACT NO.: 05-0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-09-12	08-14-12	08-28-12		19	19

FILE => 51-0339k-z-ltb03.dgn

USERNAME => s124496 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:23

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
05	SB	101	22.3/23.0	326	343

MJ Cullen 1-17-13
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

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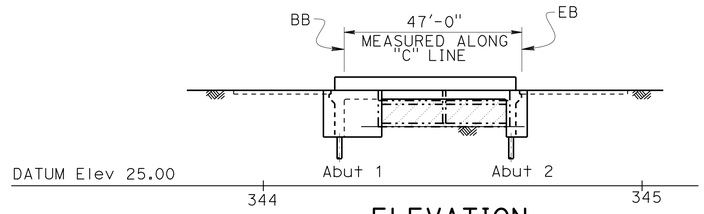
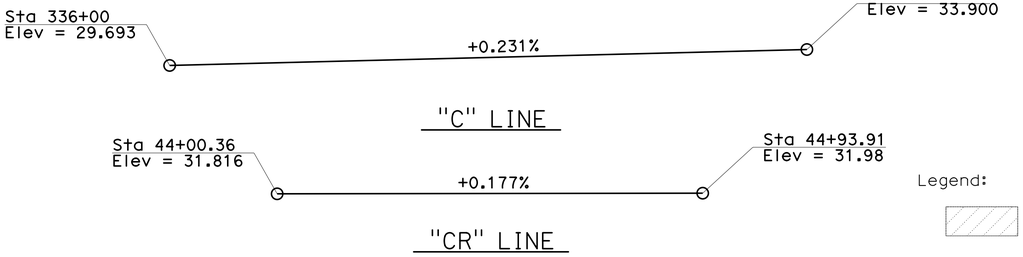
REGISTERED PROFESSIONAL ENGINEER — M. J. CULLEN No. C 40620 Exp. 03-31-13 CIVIL — STATE OF CALIFORNIA



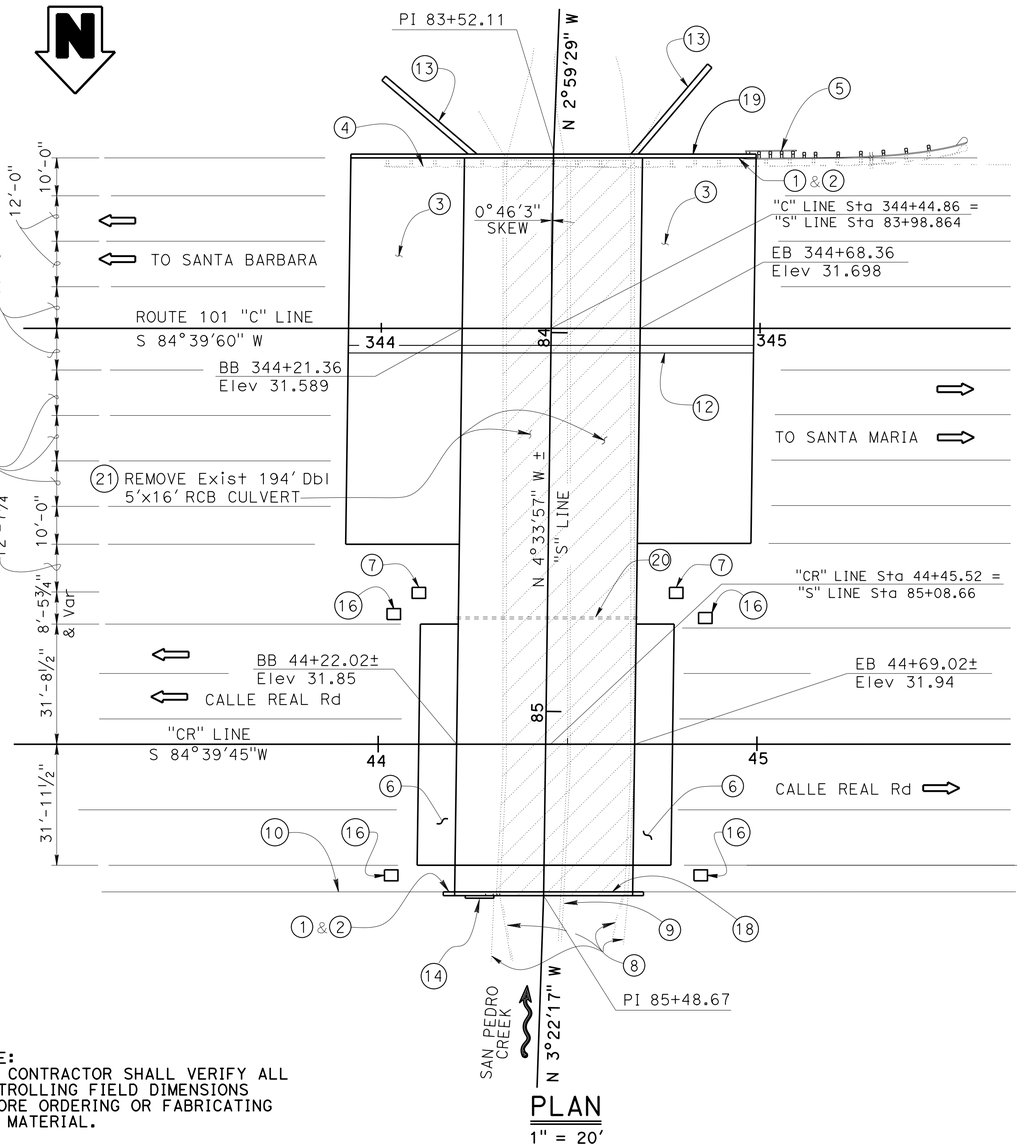
ELEVATION
1" = 20'

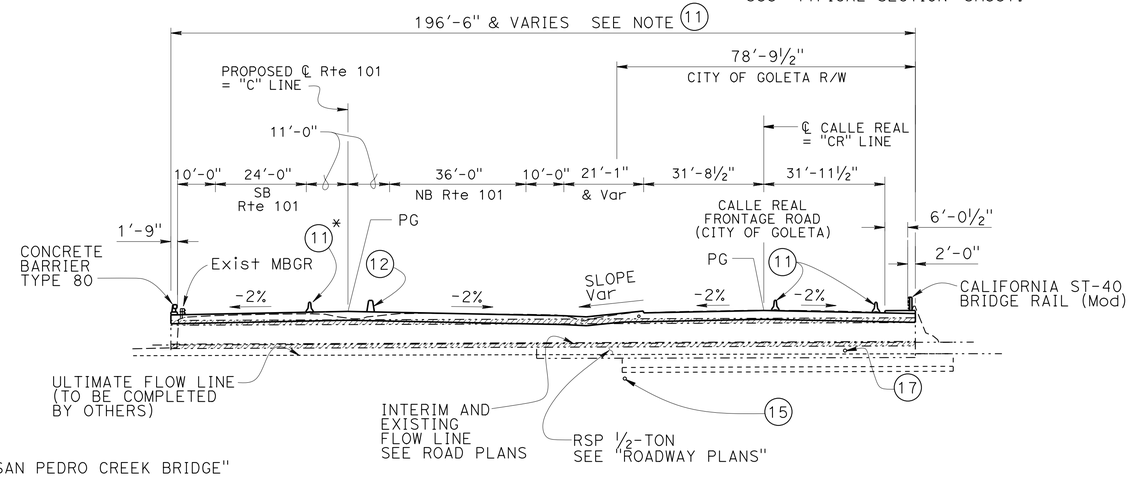


PROFILE GRADE
NO SCALE

Legend:

- Limits of Reinforced Concrete Box Culvert (Br No 51-168) removal See Road Plans
- Indiates existing structure
- Indiates new structure
- * For Limits of Stage Construction, see "TYPICAL SECTION" sheet.





NOTES:

1. Paint "SAN PEDRO CREEK BRIDGE"
2. Paint "Br. No. 51-0341
3. Structure Approach Type N(30D)
4. Remove Exist MBGR, see "Road Plans"
5. MBGR, see "Road Plans"
6. Structure Approach Type EQ(10)
7. Drainage Inlets, see "Road Plans"
8. Reconstruct Existing Concrete Channel Lining and Channel Walls, see "Road Plans"
9. Existing Debris Fin to be removed see "Road Plans"
10. Reconstruct Existing Gates and Fencing, see "Road Plans"
11. For Stage Construction limits, see "Typical Section" sheet. For temporary Railing (Type K) layout, see "Road Plans". K Rail Layout shown for Stage 1 Construction only
12. Concrete Barrier Type 60A (Mod) with scuppers located on Bridge deck and Approach Slab

TYPICAL CROSS SECTION
1" = 20'

13. Wingwall
14. Construct a Closure Wall that is to be removed in the future for 25-year storm event
15. 1 -size 10.5" steel casing for 8" water pipe (by City of Goleta)
16. Drainage Inlet, see "Road Plans"
17. Existing Sanitary Sewer pipe to be relocated, See "Road Plans"
18. Limits of California ST-40 Bridge Rail are from BB to EB
19. Concrete Barrier Type 80 extends to the ends of the Approach Slab (Typical)
20. 6 inch Welded Steel Pipe Casing through superstructure. To be used as irrigation conduit
21. Remove Existing San Pedro Creek RCB Culvert See "Road Plans"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

PLAN
1" = 20'

FRITZ HOFFMAN
DESIGN ENGINEER

DESIGN	BY XIAODONG CHEN	CHECKED MIKE CULLEN	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE	
DETAILS	BY BRUNO JENKO	CHECKED M. CULLEN	LAYOUT	BY XIAODONG CHEN	CHECKED MIKE CULLEN
QUANTITIES	BY R. WASHINGTON	CHECKED G. REYES-GUTIERREZ	SPECIFICATIONS	BY V. RENGANATHAN	CHECKED PLANS AND SPECS COMPARED V. RENGANATHAN

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

CU 05
EA 0G0701

BRIDGE NO. 51-0341
POST MILE 22.3-23.0

SAN PEDRO CREEK BRIDGE
GENERAL PLAN

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 10-5-09 | 01-09-13 | 11-30-10 | 05-22-12 | 06-01-12 | 07-13-12 | 09-14-12 | 10-08-12 | 11-01-12

SHEET 1 OF 18

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV.09-01-10)

FILE => 51-0341-a-gp.dgn

USERNAME => s1216l4 DATE PLOTTED => 13-MAY-2013 TIME PLOTTED => 14:09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
05	SB	101	22.3/23.0	327	343

MJ Cullen 1-17-13
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — M. J. CULLEN — No. C 40620 — Exp. 03-31-13 — CIVIL — STATE OF CALIFORNIA

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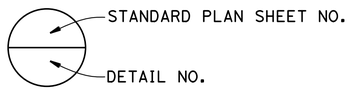
INDEX TO PLANS

STANDARD PLANS DATED 2010

A10A	ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2)
A10B	ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2)
A10C	LINES AND SYMBOLS (SHEET 1 OF 3)
A10D	LINES AND SYMBOLS (SHEET 2 OF 3)
A10E	LINES AND SYMBOLS (SHEET 3 OF 3)
A10F	LEGEND - SOIL (SHEET 1 OF 2)
A10G	LEGEND - SOIL (SHEET 2 OF 2)
A10H	LEGEND - ROCK
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE
A76A	CONCRETE BARRIER TYPE 60A
B0-1	BRIDGE DETAILS
B0-3	BRIDGE DETAILS
B0-5	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B2-8	PILE DETAILS CLASS 200
B6-21	JOINT SEALS
RSP-B11-60	CONCRETE BARRIER TYPE 80 (SHEET 1 OF 2)
B11-66	CALIFORNIA ST-40 BRIDGE RAIL (SHEET 1 OF 2)



GENERAL NOTES
LOAD AND RESISTANCE FACTOR DESIGN

DESIGN:
AASHTO LRFD Bridge Design Specifications,
Fourth Edition with Caltrans Amendments 12-7-2011

SEISMIC DESIGN:
Caltrans Seismic Design Criteria SDC Version 1.6, December, 2010

DEAD LOAD:
Includes 35 psf for future wearing surface.

LIVE LOADING:
HL93 and permit design load.

SEISMIC LOADING:
Site Specific See ARS Curve.

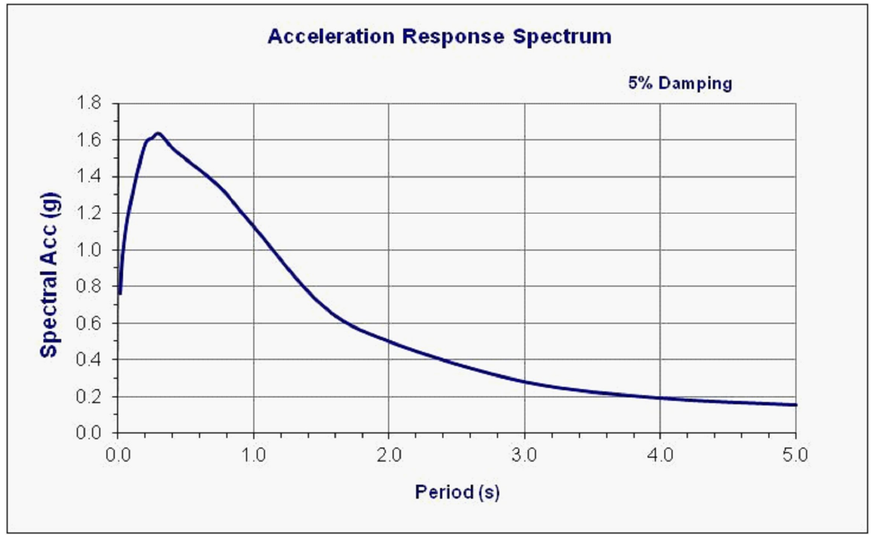
REINFORCED CONCRETE:
f_y = 60 ksi
f_c = 4.0 ksi
n = 8

STRUCTURAL STEEL:
f_y = ASTM A709 Grade 50

SOIL PARAMETERS:
(For determination of design lateral earth pressures)
$\Phi = 32°$ γ = 120 pcf

QUANTITIES

STRUCTURE EXCAVATION (TYPE A)	1,459	CY
STRUCTURE BACKFILL (BRIDGE)	382	CY
6"WELDED STEEL PIPE CASING (BRIDGE) (.250" THICK)	47	LF
FURNISH PILING (CLASS 200) (ALTERNATIVE W)	4,036	LF
DRIVE PILE (CLASS 200) (ALTERNATIVE W)	68	EA
SEAL COURSE CONCRETE	295	CY
STRUCTURAL CONCRETE, BRIDGE	1,344	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE EQ)	35	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	227	CY
JOINT SEAL (MR1/2")	393	LF
BAR REINFORCING STEEL (BRIDGE)	251,202	LB
HEADED BAR REINFORCEMENT	1,994	EA
CONCRETE BARRIER (TYPE 60A MODIFIED)	47	LF
CONCRETE BARRIER (TYPE 80)	107	LF
CALIFORNIA ST-40 BRIDGE RAIL (MOD)	47	LF



PILE DATA TABLE

LOCATION	PILE TYPE	NOMINAL RESISTANCE (KIPS)		DESIGN TIP ELEVATIONS (FT)	SPECIFIED TIP ELEVATIONS (FT)	NOMINAL DRIVING RESISTANCE (KIPS)
		COMPRESSION	TENSION			
ABUTMENT 1	CLASS 200 ALT W	265	N/A	-46 (a) -20 (c)	-46	280
ABUTMENT 2	CLASS 200 ALT W	265	N/A	-46 (a) -20 (c)	-46	280

NOTES:
1) Design tip elevations for Abutments are controlled by: (a) Compression, (c) Settlement.
2) The specified tip elevation shall not be raised above the design tip elevations for tension load, lateral load, and tolerable settlement.

FAULT NAME	FAULT TYPE	MOMENT MAGNITUDE OF MAXIMUM CREDIBLE EARTHQUAKE	DISTANCE FROM FAULT TO PROJECT SITE (MILES)	PEAK GROUND ACCELERATION T=0 SEC (GRAVITY)
SAN JOSE FAULT	REVERSE	6.3	0.7	0.61
MORE RANCH FAULT	REVERSE	7.2	0.7	0.51

ARS CURVE

DESIGN	BY M. CULLEN	CHECKED X. CHEN	
DETAILS	BY D. PATO	CHECKED M. CULLEN	
QUANTITIES	BY R. WASHINGTON	CHECKED G. REYES-GUTIERREZ	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

BRIDGE NO. 51-0341
POST MILE 22.3-23.0

SAN PEDRO CREEK BRIDGE
INDEX TO PLANS

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 05
EA 0G0701

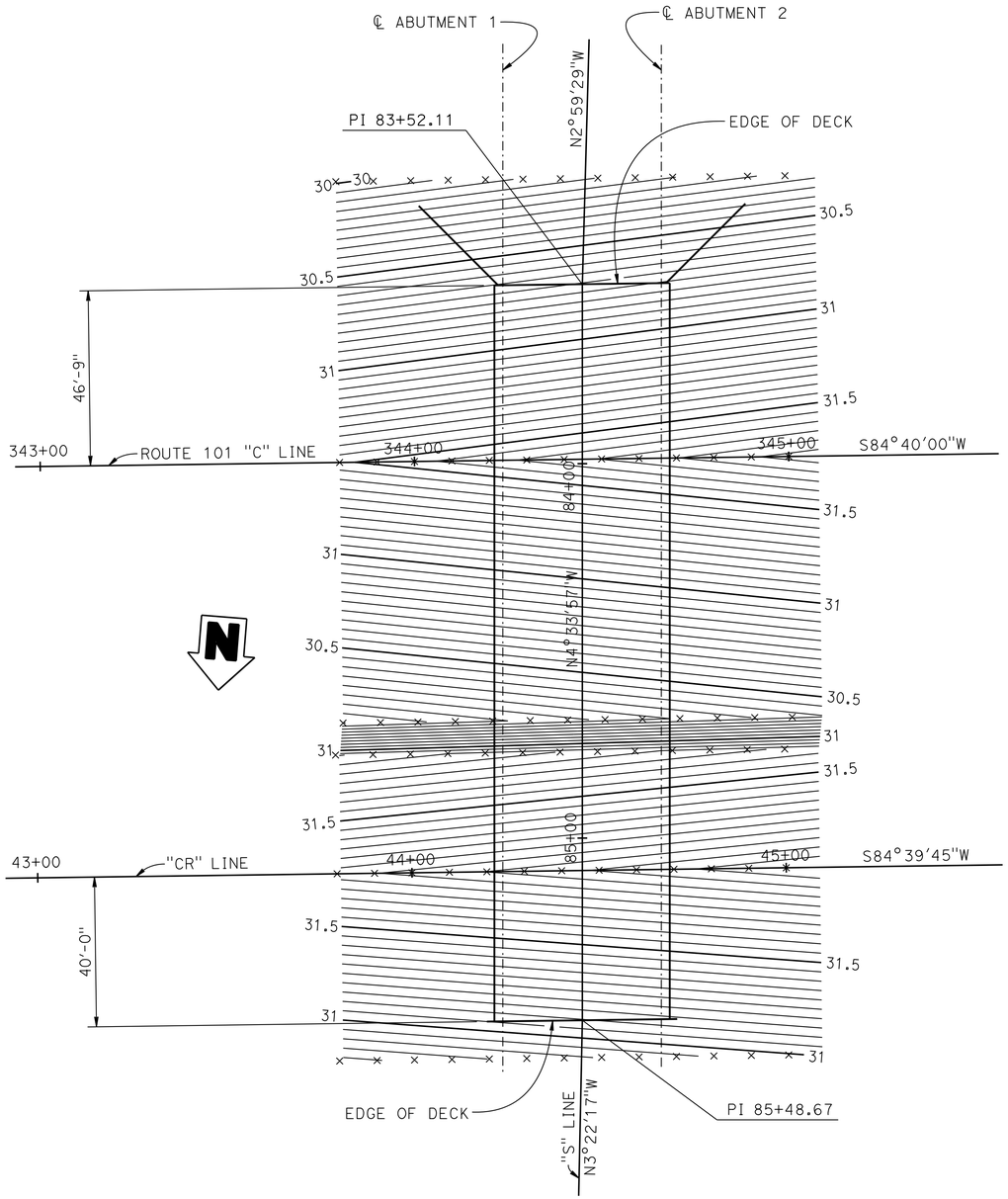
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 6-7-12 | 7-18-12 | 09-18-12 | 10-09-12

SHEET 2 OF 18

FILE => 51-0341-b-itp.dgn

USERNAME => s121614 DATE PLOTTED => 13-MAY-2013 TIME PLOTTED => 14:09



PLAN

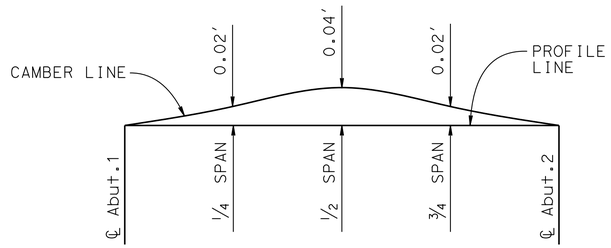
1" = 20'-0"

Notes:

× - 10' Station Interval.

0.05' Contour Interval.

Contours do not include camber.

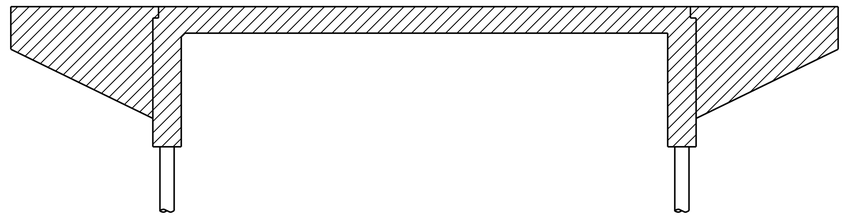


CAMBER DIAGRAM

Does not include allowance for falsework settlement.

BUILDING SEQUENCE

1. Construct Abutment Diaphragms.
2. Place channel RSP and channel fill material to interim flow line (see road plans) while simultaneously filling behind the abutment diaphragm. The elevation of the fill within the channel and behind the abutment shall be within 2 feet of each other at all times.
3. Construct Deck Slab and remove Falsework.
4. Place remaining backfill behind the abutments.



STRUCTURAL CONCRETE, BRIDGE

STEEL PIPE PILE

CONCRETE STRENGTH AND TYPE LIMITS

NO SCALE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
05	SB	101	22.3/23.0	328	343

MJ Cullen 1-17-13
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — M. J. CULLEN — No. C 40620 — Exp. 03-31-13 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

	BY	CHECKED
DESIGN	M. CULLEN	XIAODONG CHEN
DETAILS	D. PATO	M. CULLEN
QUANTITIES	R. WASHINGTON	G. REYES-GUTIERREZ

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

CU 05
EA 0G0701

BRIDGE NO. 51-0341
POST MILE 22.3-23.0

SAN PEDRO CREEK BRIDGE
DECK CONTOURS

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 6-13-12 | 7-31-12 | 01-09-13

SHEET 3 OF 18

FILE => 51-0341-d-dc.dgn

USERNAME => s124496 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:23

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
05	SB	101	22.3/23.0	329	343

MJ Cullen 1-17-13
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — M. J. CULLEN No. C 40620 Exp. 03-31-13 CIVIL — STATE OF CALIFORNIA

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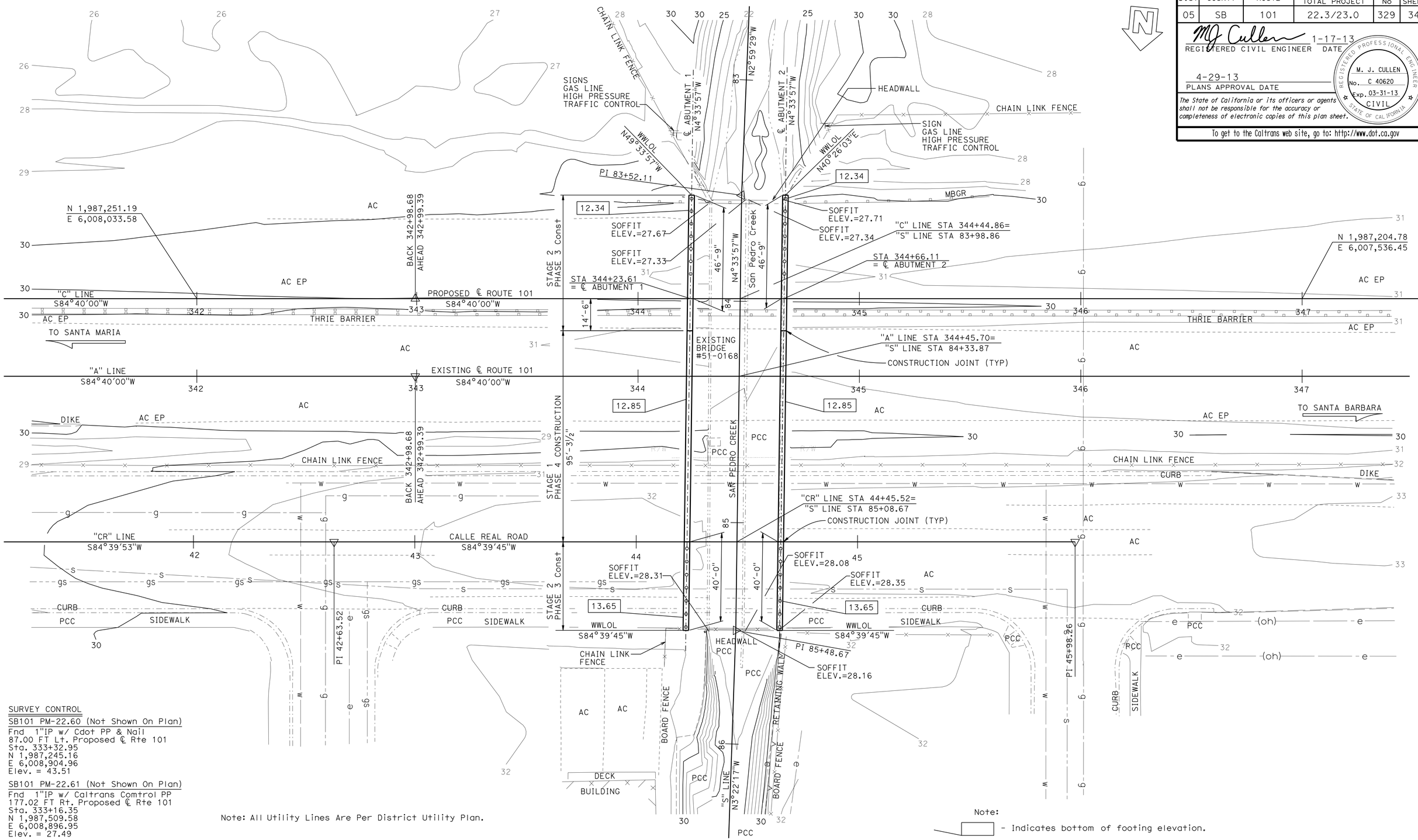
To get to the Caltrans web site, go to: http://www.dot.ca.gov



SURVEY CONTROL

SB101 PM-22.60 (Not Shown On Plan)
Fnd 1"IP w/ Cdot PP & Nail
87.00 FT Lt. Proposed ℄ Rte 101
Sta. 333+32.95
N 1,987,245.16
E 6,008,904.96
Elev. = 43.51

SB101 PM-22.61 (Not Shown On Plan)
Fnd 1"IP w/ Caltrans Comtrol PP
177.02 FT Rt. Proposed ℄ Rte 101
Sta. 333+16.35
N 1,987,509.58
E 6,008,896.95
Elev. = 27.49

Note: All Utility Lines Are Per District Utility Plan.

Note:
- Indicates bottom of footing elevation.

PRELIMINARY INVESTIGATION SECTION					
SCALE 1"=20'	VERT.DATUM NAVD88	PHOTOGRAMMETRY AS OF: X			
	HORZ.DATUM NAD83 (1991.35)	SURVEYED	BY District/J.Pallares	CHECKED	BY X
	ALIGNMENT TIES Dist.Traverse Sheet	DRAFTED	BY T.Zolnikov 01/2010	CHECKED	BY X

DESIGN	BY M. CULLEN	CHECKED XIAODONG CHEN
DETAILS	BY D. PATO	CHECKED M. CULLEN
QUANTITIES	BY R. WASHINGTON	CHECKED G. REYES-GUTIERREZ

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

CU 05
EA 0G0701

BRIDGE NO. 51-0341
POST MILE 22.3-23.0

SAN PEDRO CREEK BRIDGE
FOUNDATION PLAN

STRUCTURES FOUNDATION PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 07/06/10 | 6-21-12 | 7-13-12 | 8-01-12 | 8-22-12 | 11-01-12

SHEET 4 OF 18

FILE => 51-0341-e-fdp101.dgn

USERNAME => s1224096 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:23

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
05	SB	101	22.3/23.0	330	343

MJ Cullen 1-17-13
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

M. J. CULLEN No. C 40620 Exp. 03-31-13 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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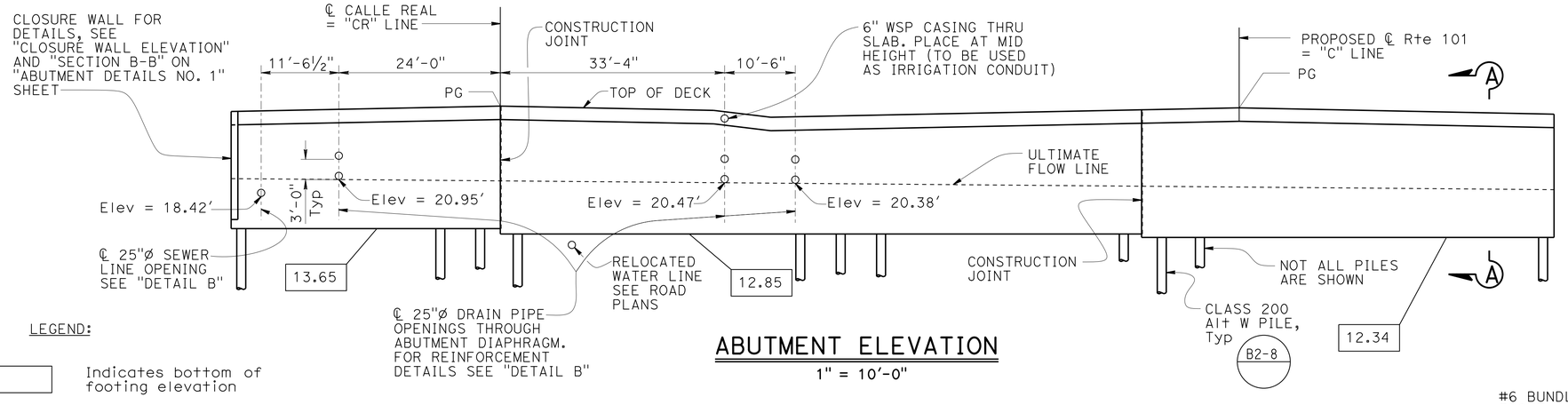


ABUTMENT ELEVATION

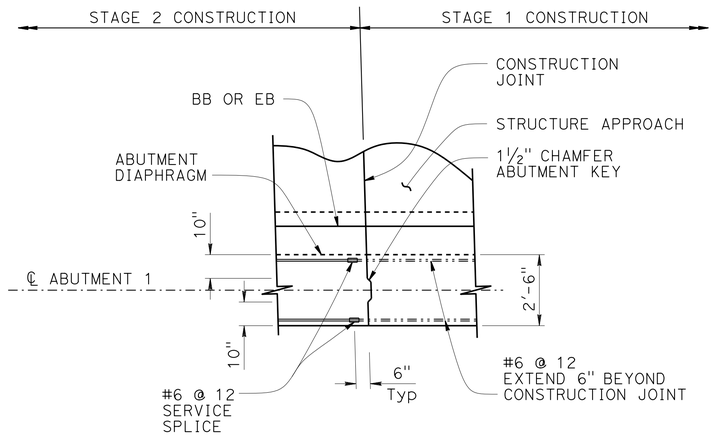
1" = 10'-0"

LEGEND:

Indicates bottom of footing elevation

NOTE:

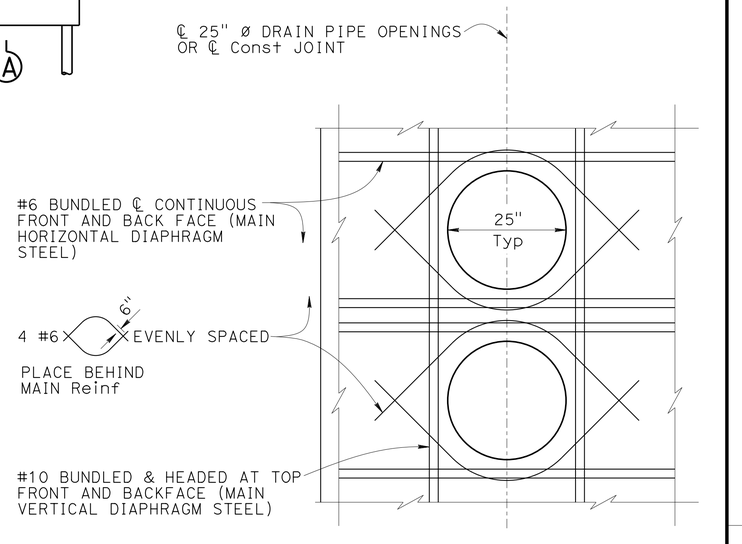
For "SECTION A-A" see "ABUTMENT DETAILS NO. 1" sheet



(TYPICAL AT ABUTMENT CONSTRUCTION JOINTS)

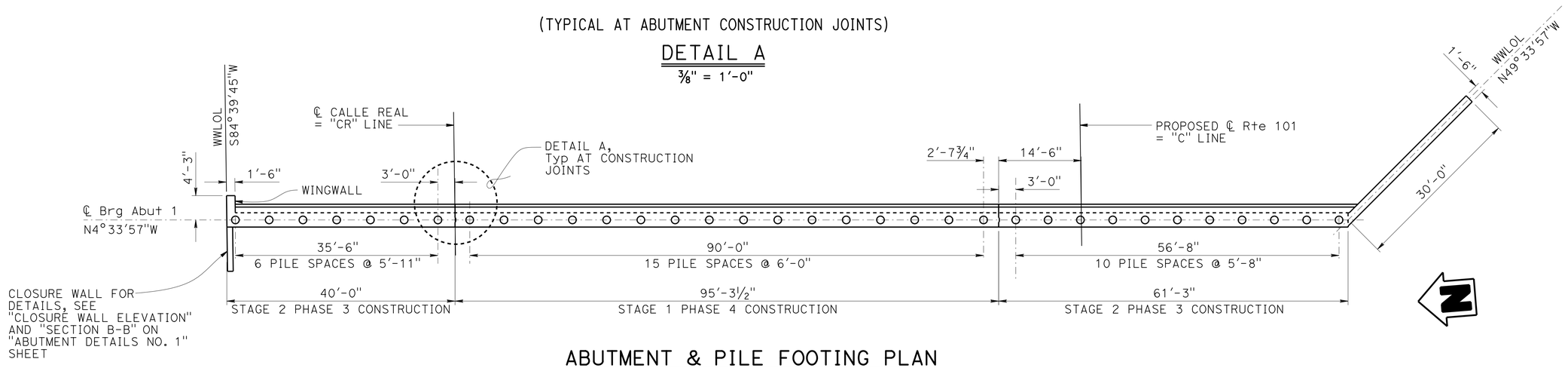
DETAIL A

⅜" = 1'-0"



DETAIL B

¾" = 1'-0"



ABUTMENT & PILE FOOTING PLAN

1" = 10'-0"

DESIGN	BY MIKE CULLEN	CHECKED XIAODONG CHEN	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO. 51-0341	SAN PEDRO CREEK BRIDGE
DETAILS	BY SUSAN NG	CHECKED MIKE CULLEN			POST MILE 22.3-23.0	ABUTMENT 1 LAYOUT
QUANTITIES	BY RACHEL WASHINGTON	CHECKED GLORIA REYES-GUTIERREZ		CU 05 EA 0G0701	DISREGARD PRINTS BEARING EARLIER REVISION DATES →	REVISION DATES: 06-14-12 / 07-02-12 / 08-01-12 / 08-08-12 / 08-22-12 / 09-19-12 / 10-05-12 / 11-01-12 / 01-09-13

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

FILE => 51-0341-f-abt1-lo.dgn

SHEET 5 OF 18

USERNAME => s121614 DATE PLOTTED => 13-MAY-2013 TIME PLOTTED => 14:09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
05	SB	101	22.3/23.0	331	343

MJ Cullen 1-17-13
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
M. J. CULLEN
No. C 40620
Exp. 03-31-13
CIVIL
STATE OF CALIFORNIA

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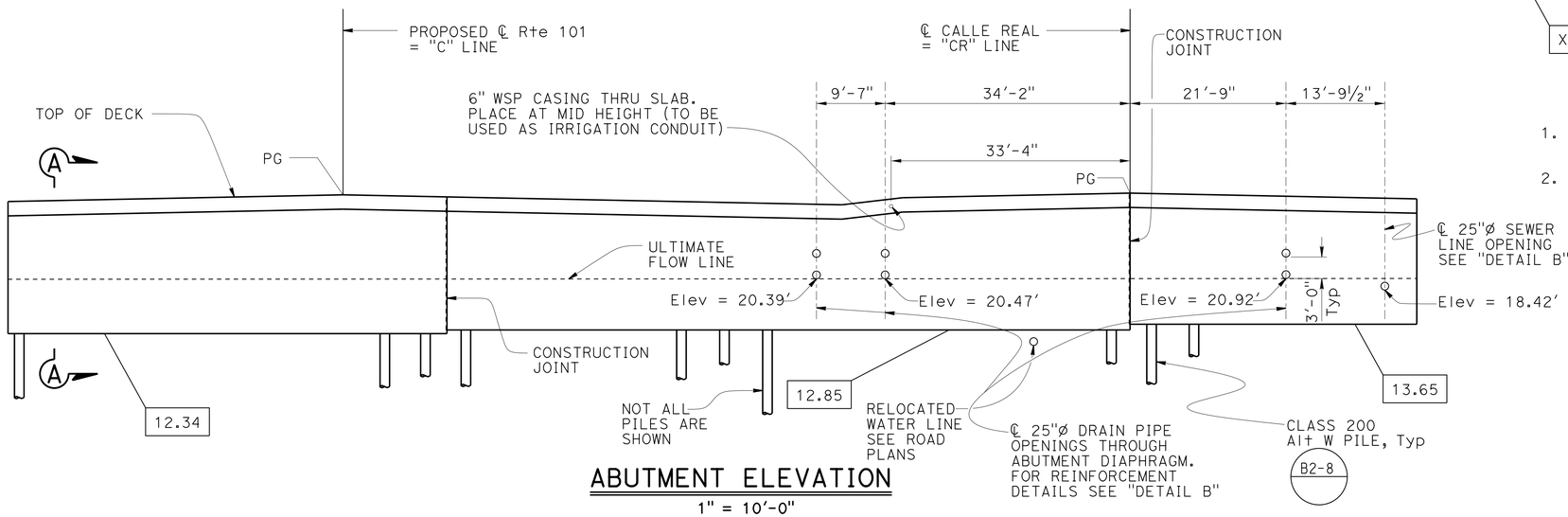


ABUTMENT ELEVATION

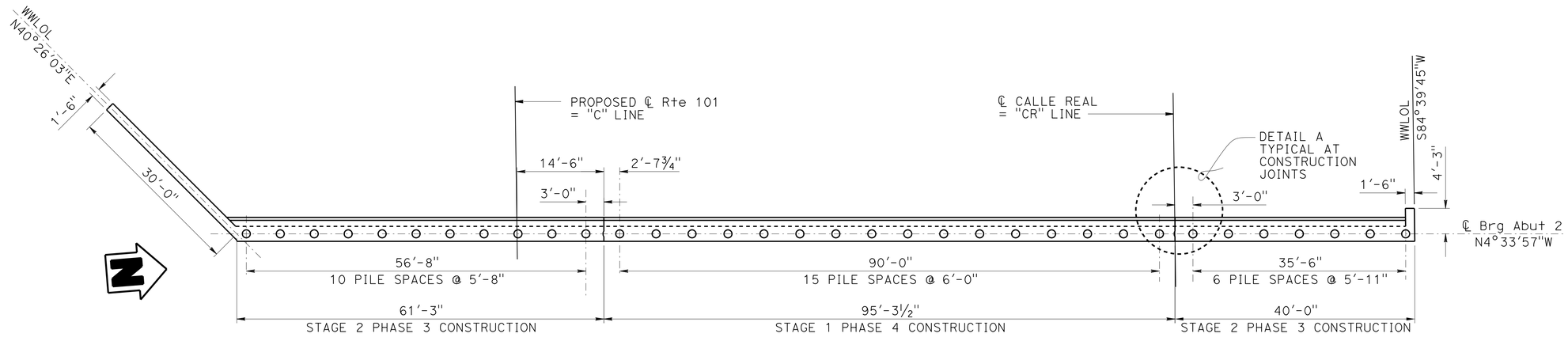
1" = 10'-0"

LEGEND:

XX.XX — Indicates bottom of footing elevation

NOTES:

1. For "SECTION A-A", see "ABUTMENT DETAILS NO. 1" sheet.
2. For "DETAIL A" and "DETAIL B" see "ABUTMENT 1 LAYOUT" sheet.



ABUTMENT & PILE FOOTING PLAN

1" = 10'-0"

DESIGN	BY MIKE CULLEN	CHECKED XIAODONG CHEN	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO. 51-0341
DETAILS	BY SUSAN NG	CHECKED MIKE CULLEN			POST MILE 22.3-23.0
QUANTITIES	BY RACHEL WASHINGTON	CHECKED GLORIA REYES-GUTIERREZ		CU 05 EA 0G0701	DISREGARD PRINTS BEARING EARLIER REVISION DATES →

SAN PEDRO CREEK BRIDGE

ABUTMENT 2 LAYOUT

REVISION DATES: 06-15-12 | 07-10-12 | 08-02-12 | 08-22-12 | 09-26-12 | 10-09-12 | 11-01-12 | 01-09-13

SHEET 6 OF 18

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

FILE => 51-0341-f-abt2-lo.dgn

USERNAME => s612614 DATE PLOTTED => 13-MAY-2013 TIME PLOTTED => 14:09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
05	SB	101	22.3/23.0	332	343

1-17-13
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

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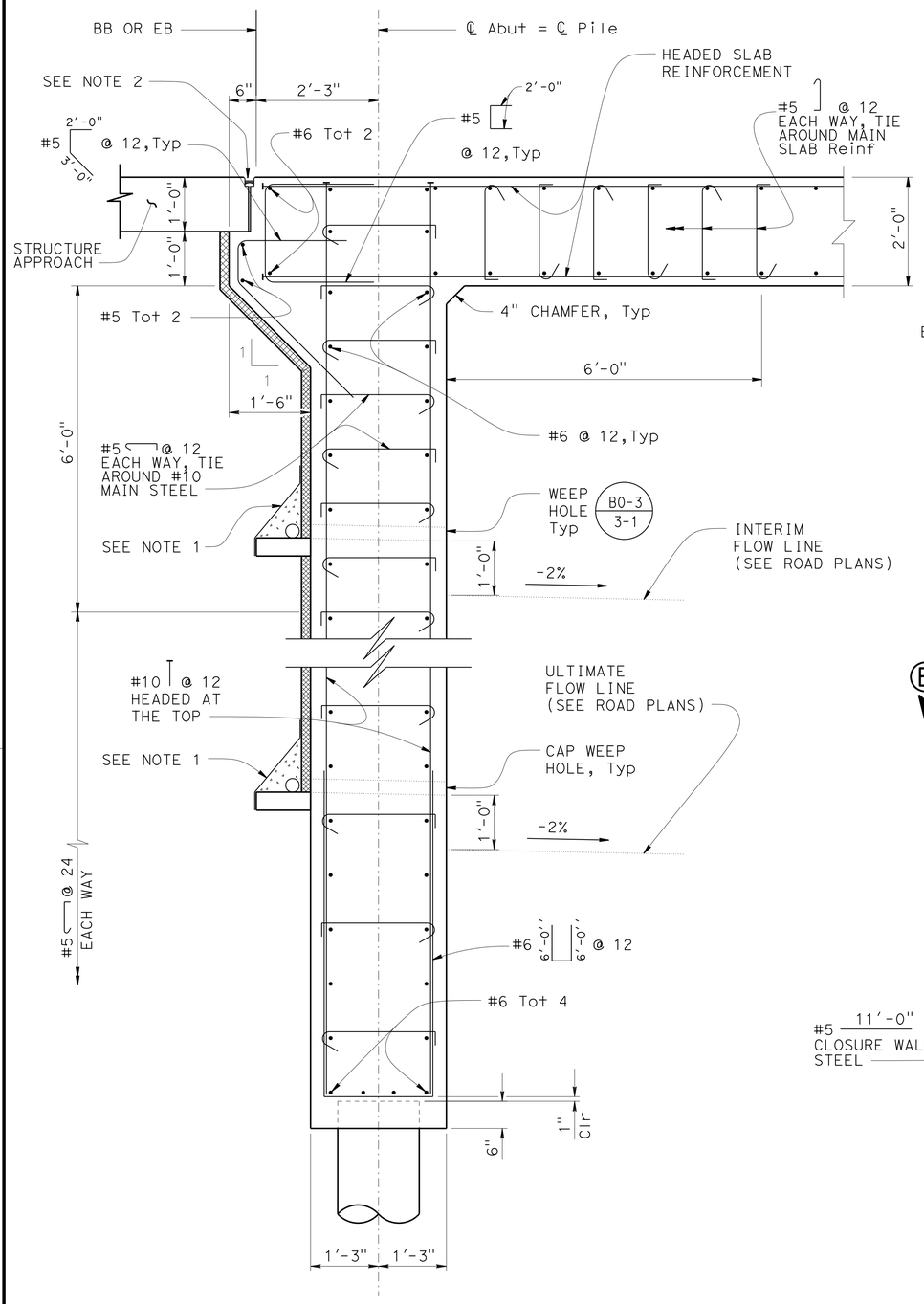
REGISTERED PROFESSIONAL ENGINEER
M. J. CULLEN
No. C 40620
Exp. 03-31-13
CIVIL
STATE OF CALIFORNIA

NOTES & LEGEND:

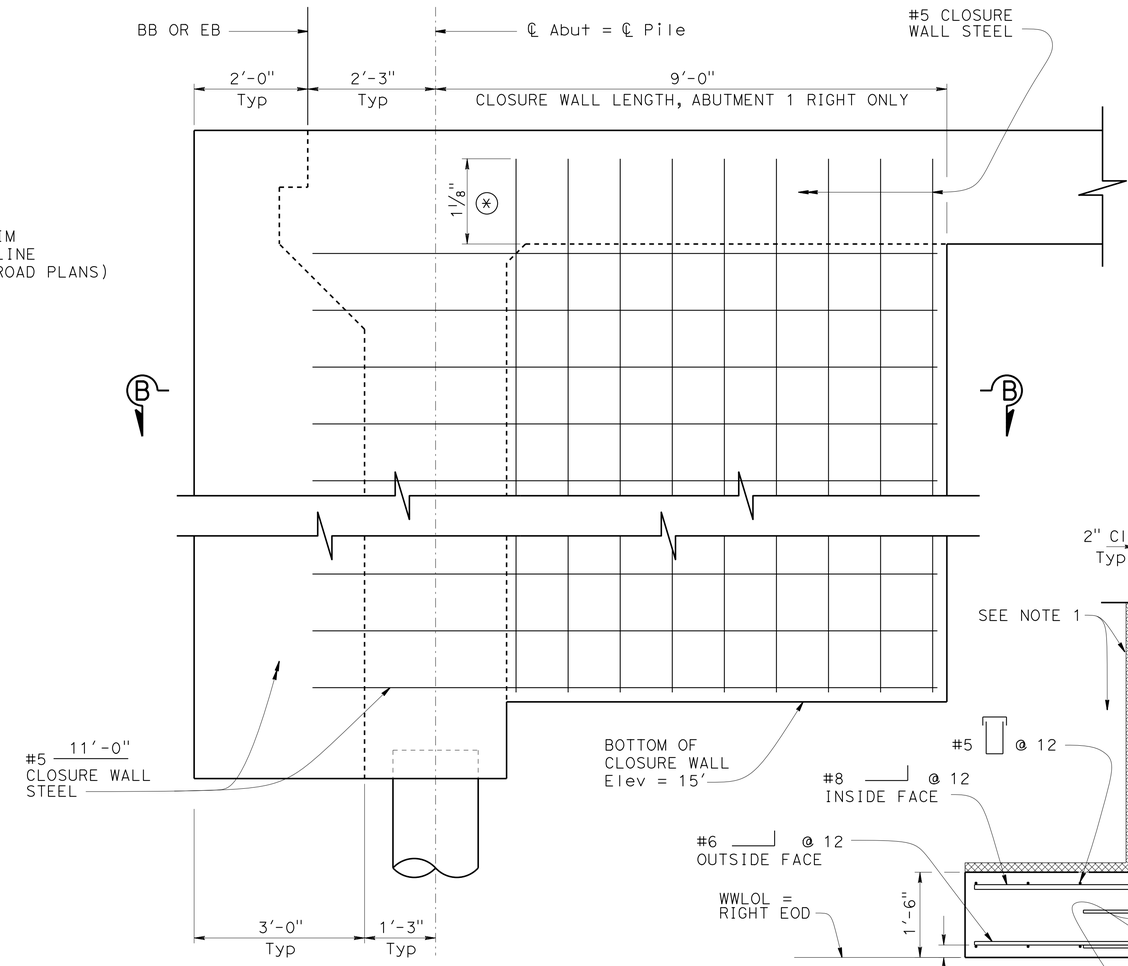
1. Geocomposite Drain, see "STRUCTURE APPROACH DRAINAGE DETAILS" sheet.
2. Joint Seal MR = ½"
   B0-1 1-2 and B6-21
3. Abutment 1 right wingwall and closure wall shown, Abutment 2 right wingwall similar.
4. Closure wall Abutment 1 right side only.

(*) Closure wall vertical steel to be developed 1'-6" into slab



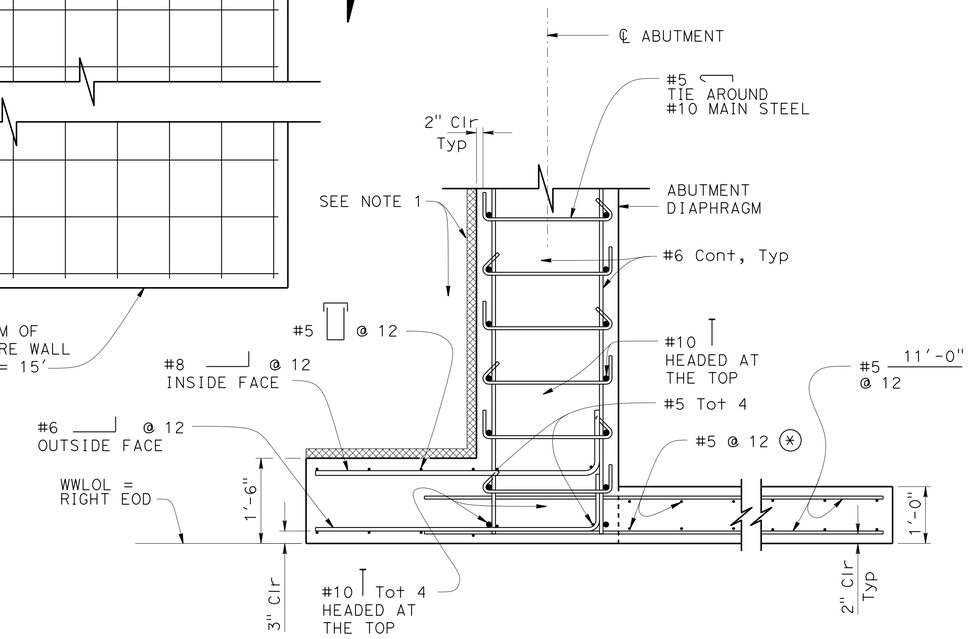
SECTION A-A

¾" = 1'-0"



CLOSURE WALL ELEVATION

¾" = 1'-0"



SECTION B-B

¾" = 1'-0"

DESIGN	BY MIKE CULLEN	CHECKED XIAODONG CHEN	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO. 51-0341
DETAILS	BY P. VON SAVOYE / S. NG	CHECKED MIKE CULLEN			POST MILE 22.3-23.0
QUANTITIES	BY RACHEL WASHINGTON	CHECKED GLORIA REYES-GUTIERREZ			

SAN PEDRO CREEK BRIDGE
ABUTMENT DETAILS NO.1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 05
EA 0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 05-28-12 | 6-05-12 | 06-18-12 | 08-02-12 | 08-08-12 | 08-22-12 | 10-09-12

SHEET 7 OF 18

FILE => 51-0341-f-abutmdet1.dgn

USERNAME => s124496 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:23

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
05	SB	101	22.3/23.0	333	343

MJ Cullen 1-17-13
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
M. J. CULLEN
No. C 40620
Exp. 03-31-13
CIVIL
STATE OF CALIFORNIA

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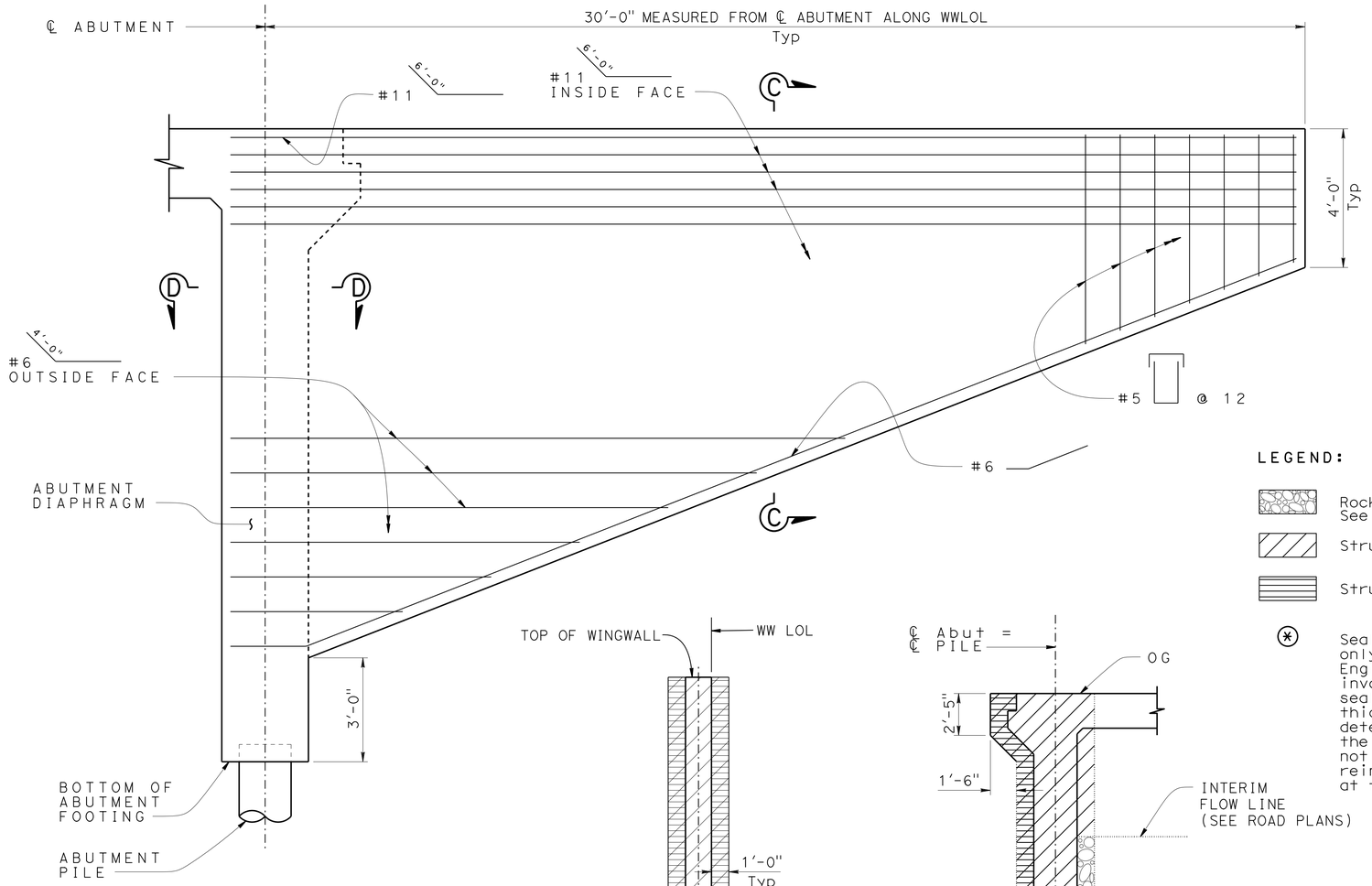


NOTE:

Abutment 1 left wingwall shown
Abutment 2 left wingwall similar

WINGWALL ELEVATION

½" = 1'-0"

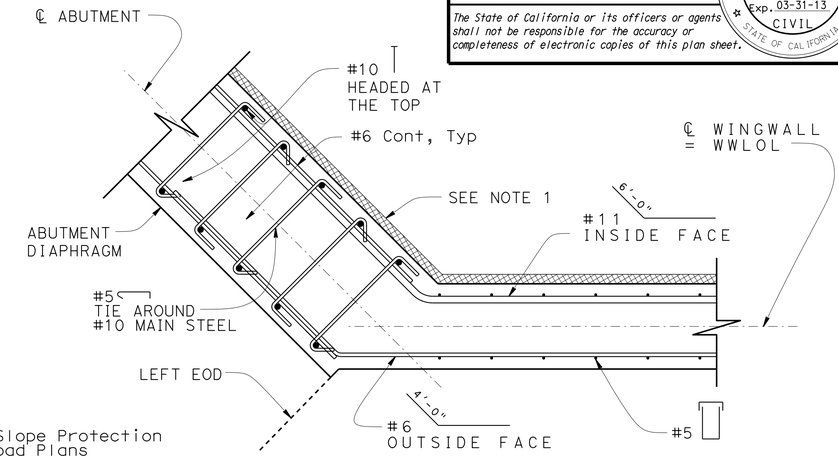
WINGWALL SECTION ABUTMENTS 1 AND 2

LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL

¼" = 1'-0"

NOTE:

1. Geocomposite Drain, see "STRUCTURE APPROACH DRAINAGE DETAILS" sheet.

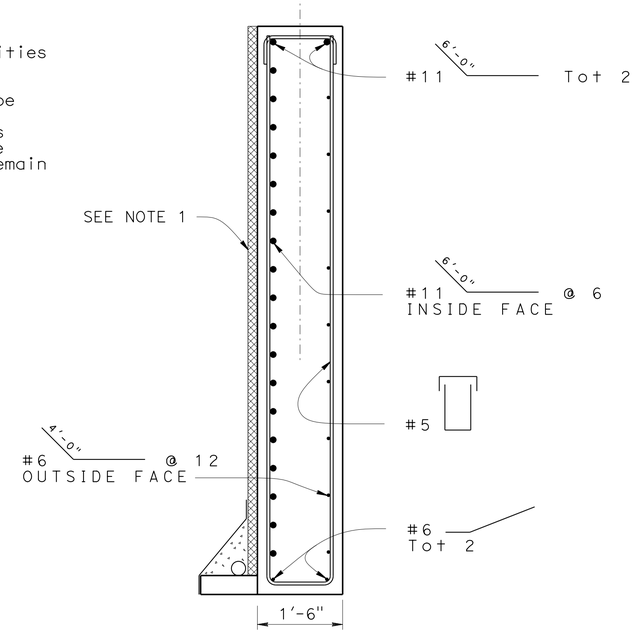


SECTION D-D

¾" = 1'-0"

LEGEND:

- Rock Slope Protection See Road Plans
- Structure excavation, Type A
- Structure backfill (Bridge)
- ⊛ Seal course to be placed only when ordered by the Engineer. Estimated quantities involved are based on the seal thickness shown. The thickness to be used will be determined in the field by the Engineer. When seal is not used, the bottom of the reinforced footing shall remain at the elevation shown.



SECTION C-C

¾" = 1'-0"

	BY	CHECKED
DESIGN	MIKE CULLEN	XIAODONG CHEN
DETAILS	SUSAN NG	MIKE CULLEN
QUANTITIES	RACHEL WASHINGTON	GLORIA REYES-GUTIERREZ

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

BRIDGE NO. 51-0341
POST MILE 22.3-23.0

SAN PEDRO CREEK BRIDGE
ABUTMENT DETAILS NO. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 05
EA 0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 06-19-12 | 07-16-12 | 08-02-12 | 08-07-12 | 08-22-12 | 10-09-12 | 5-01-13

SHEET 8 OF 18

FILE => 51-0341-f-abutmdet2.dgn

USERNAME => s124496 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:23

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
05	SB	101	22.3/23.0	334	343

MJ Cullen 1-17-13
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — M. J. CULLEN — No. C 40620 — Exp. 03-31-13 — CIVIL — STATE OF CALIFORNIA

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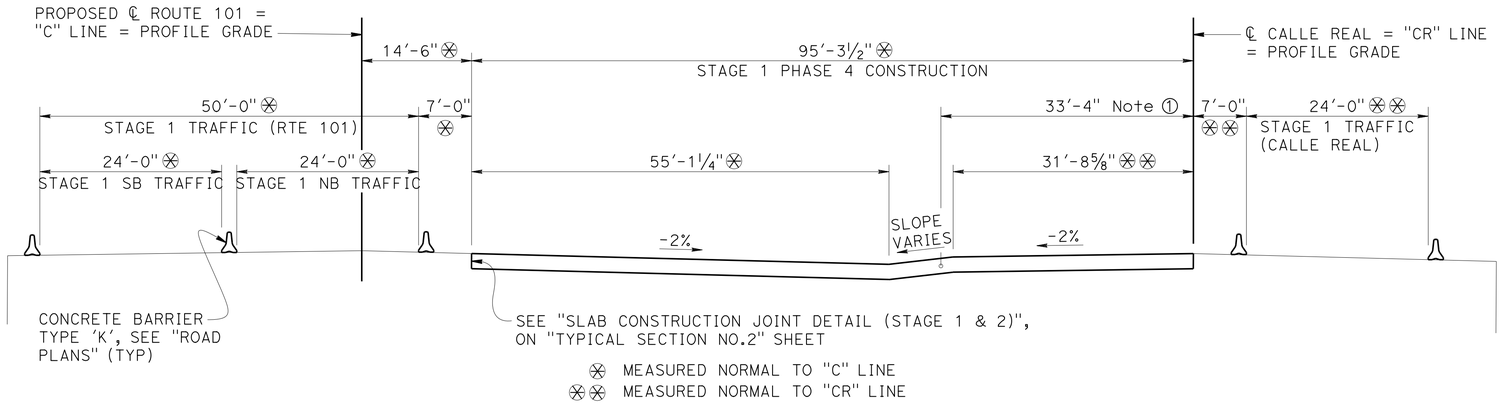
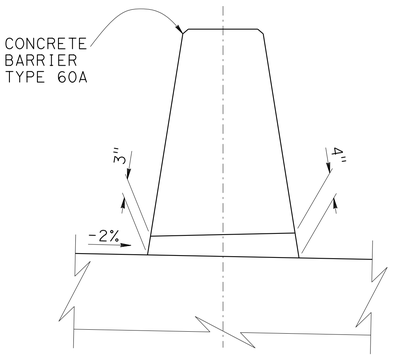


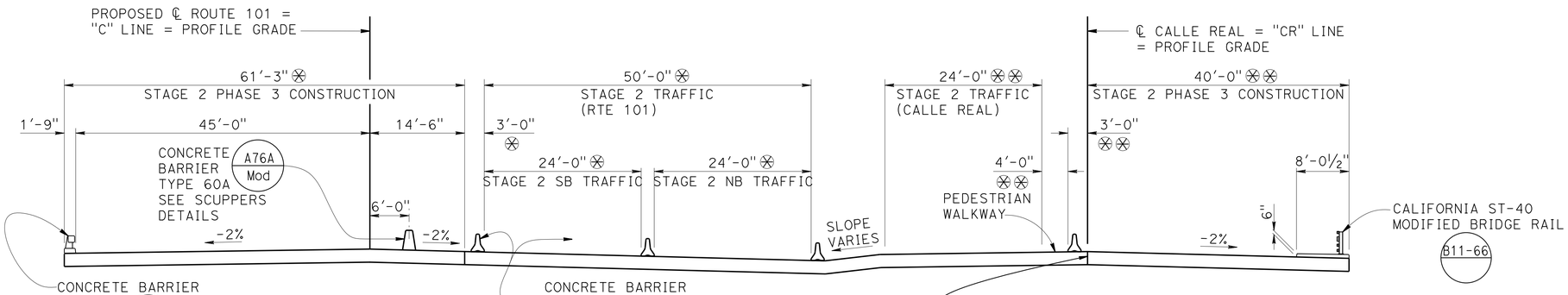
TYPICAL SECTION STAGE 1 CONSTRUCTION

1" = 10'

① Irrigation Conduit. 6" WSP casing. Place at mid height of slab.

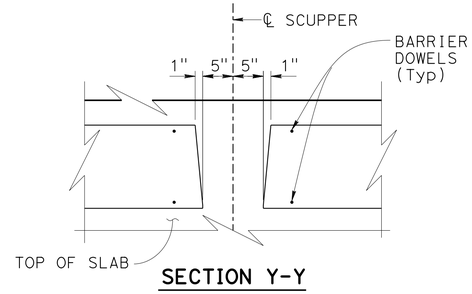


SECTION X-X



TYPICAL SECTION STAGE 2 CONSTRUCTION

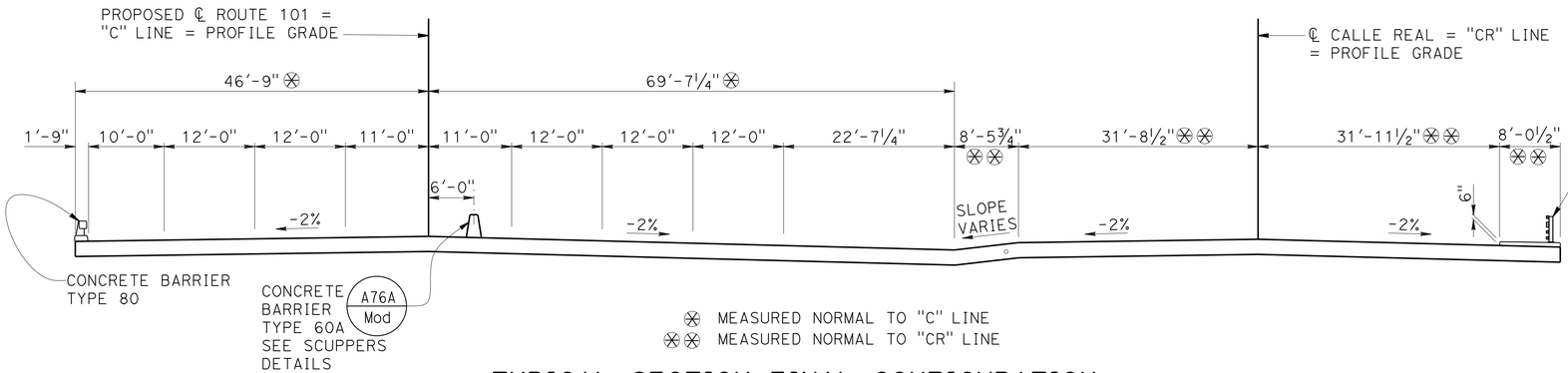
1" = 10'



SECTION Y-Y

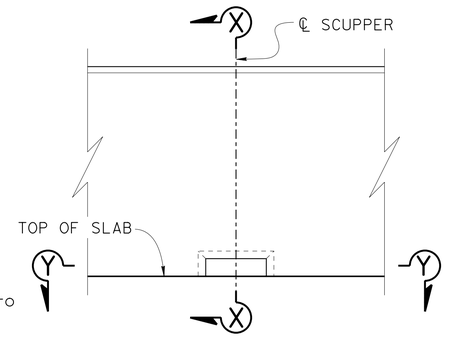
SCUPPER DETAILS

1" = 1'



TYPICAL SECTION FINAL CONFIGURATION

1" = 10'



Note:

Scuppers to be spaced at 10'-0" Max center to center thru Concrete Barrier Type 60A only

CONCRETE BARRIER TYPE 60A PART ELEVATION

DESIGN	BY MIKE CULLEN	CHECKED XIAODONG CHEN	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO. 51-0341	SAN PEDRO CREEK BRIDGE	
DETAILS	BY PETE VON SAVOYE	CHECKED MIKE CULLEN			POST MILE 22.3-23.0	TYPICAL SECTION NO.1	
QUANTITIES	BY RACHEL WASHINGTON	CHECKED GLORIA REYES-GUTIERREZ					

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 05
EA 0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 10-14-09 | 10-14-09 | 05-25-12 | 06-05-12 | 08-02-12 | 11-01-12 | 01-09-13

SHEET 9 OF 18

FILE => 51-0341-k-ts01.dgn

USERNAME => s124496 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:23

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
05	SB	101	22.3/23.0	335	343

MJ Cullen 1-17-13
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
M. J. CULLEN
No. C 40620
Exp. 03-31-13
CIVIL
STATE OF CALIFORNIA

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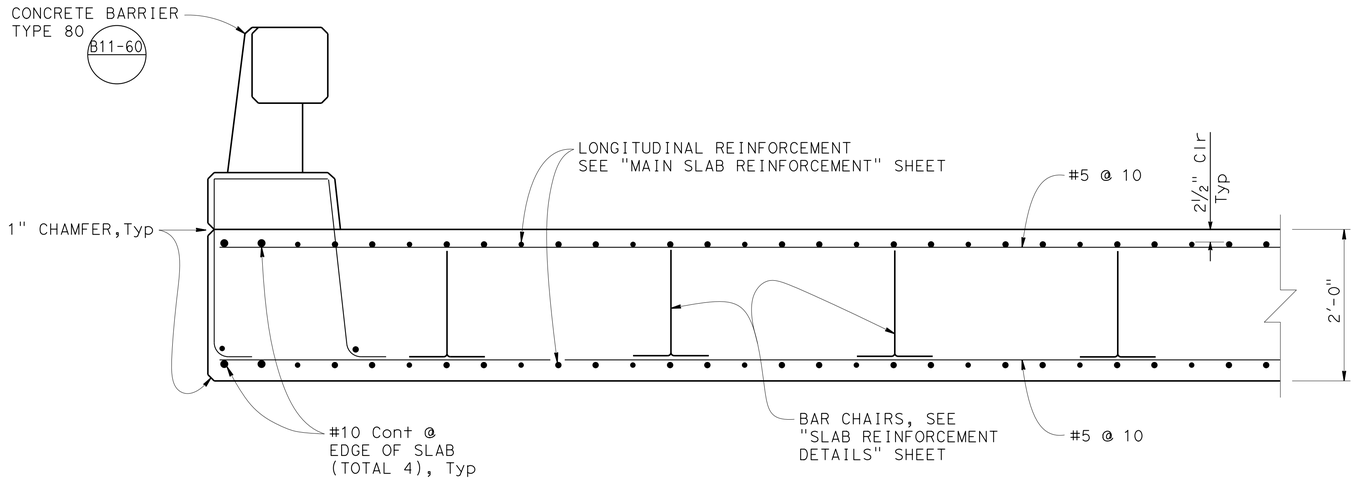
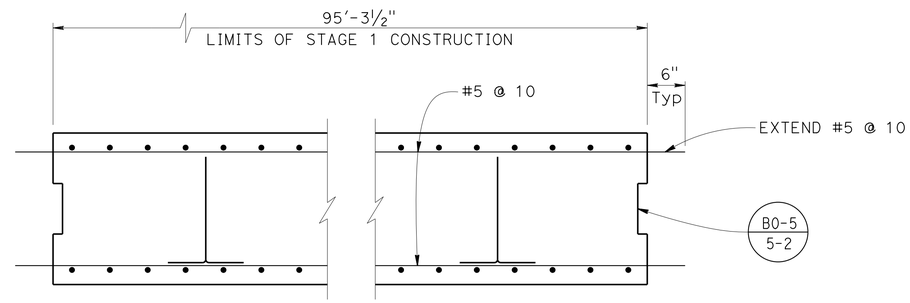


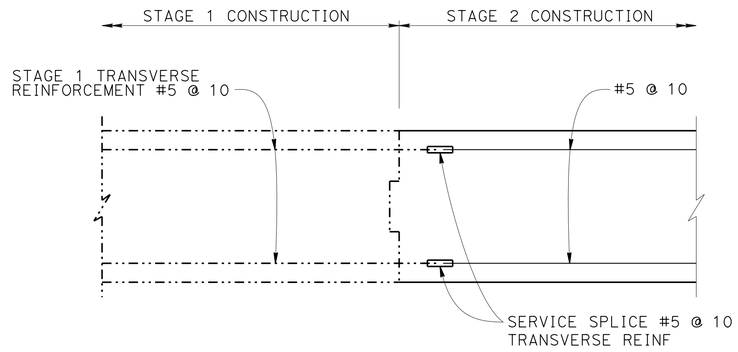
PART TYPICAL SECTION

1" = 1'-0"



SLAB CONSTRUCTION JOINT DETAIL (STAGE 1)

1" = 1'-0"



SLAB CONSTRUCTION JOINT DETAIL (STAGE 2)

1" = 1'-0"

DESIGN	BY MIKE CULLEN	CHECKED XIAODONG CHEN	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO. 51-0341	SAN PEDRO CREEK BRIDGE
DETAILS	BY PETE VON SAVOYE	CHECKED MIKE CULLEN			POST MILE 22.3-23.0	TYPICAL SECTION NO.2
QUANTITIES	BY RACHEL WASHINGTON	CHECKED GLORIA REYES-GUTIERREZ				

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 05
EA 0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 05-24-12 | 6-05-12 | 07-16-12 | 08-06-12 | 08-22-12

SHEET 10 OF 18

FILE => 51-0341-k-ts02.dgn

USERNAME => s124496 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:23

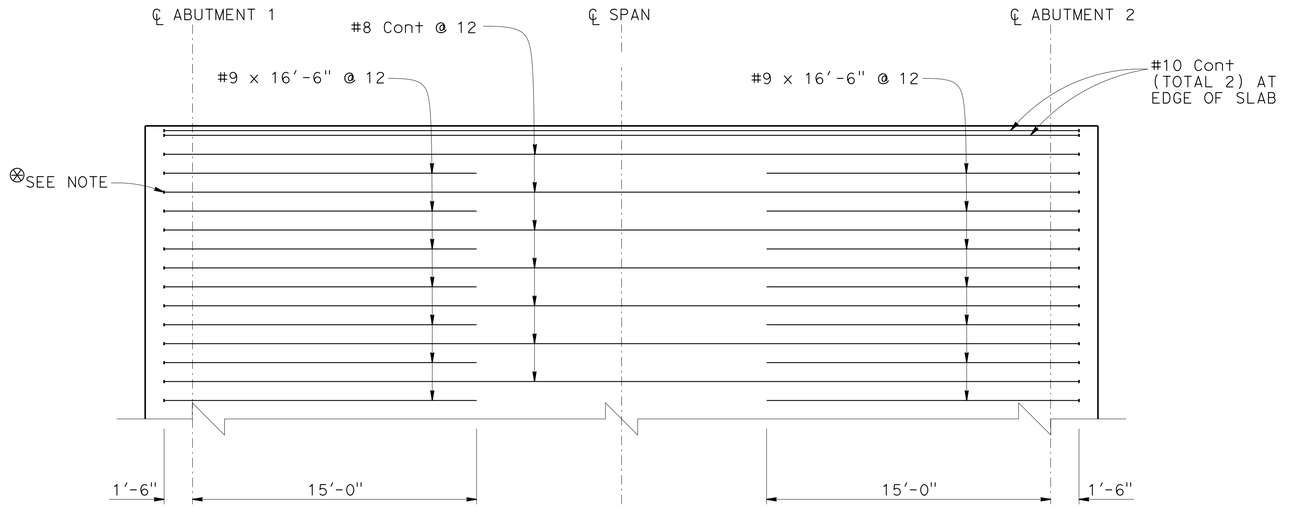
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
05	SB	101	22.3/23.0	336	343

MJ Cullen 1-17-13
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
M. J. CULLEN
No. C 40620
Exp. 03-31-13
CIVIL
STATE OF CALIFORNIA

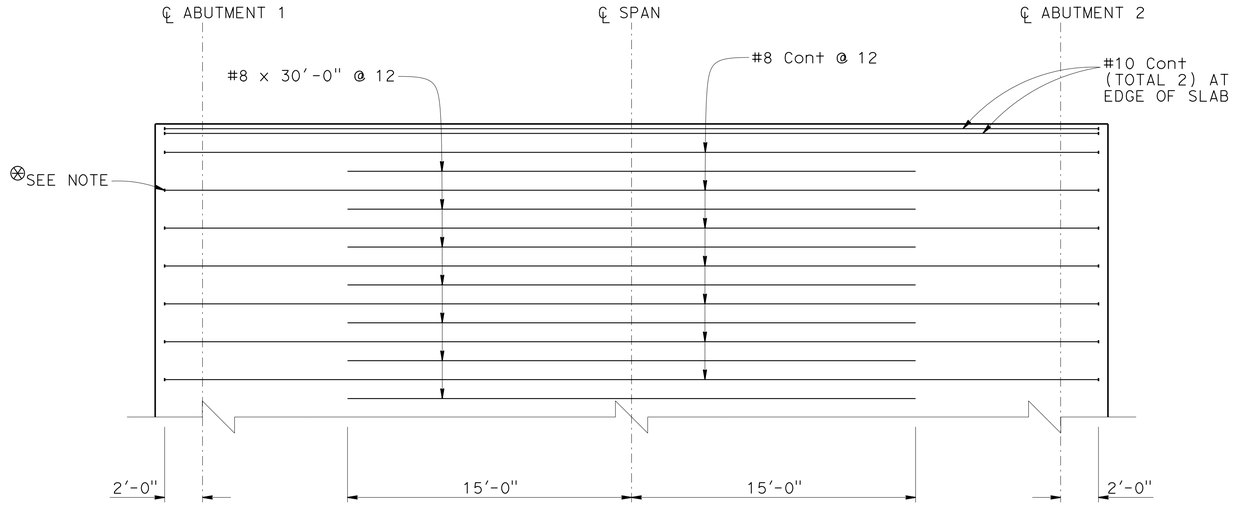
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



⊗ Note:
All Main Reinf shall be
Headed at the Abutments, Typ

PART PLAN - TOP SLAB REINFORCEMENT

1/4" = 1'-0"



⊗ Note:
All Main Reinf shall be
Headed at the Abutments, Typ

PART PLAN - BOTTOM SLAB REINFORCEMENT

1/4" = 1'-0"

DESIGN	BY MIKE CULLEN	CHECKED XIAODONG CHEN	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO. 51-0341	SAN PEDRO CREEK BRIDGE
DETAILS	BY PETE VON SAVOYE	CHECKED MIKE CULLEN			POST MILE 22.3-23.0	MAIN SLAB REINFORCEMENT
QUANTITIES	BY RACHEL WASHINGTON	CHECKED GLORIA REYES-GUTIERREZ				

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 05
EA 0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 05-28-12 08-22-12

SHEET 11 OF 18

FILE => 51-0341-1-s1-rf01.dgn

USERNAME => s124496 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:23

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	101	22.3/23.0	337	343

MJ Cullen 1-17-13
REGISTERED ENGINEER - CIVIL

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — M. J. CULLEN — No. C 40620 — Exp. 03-31-13 — CIVIL — STATE OF CALIFORNIA

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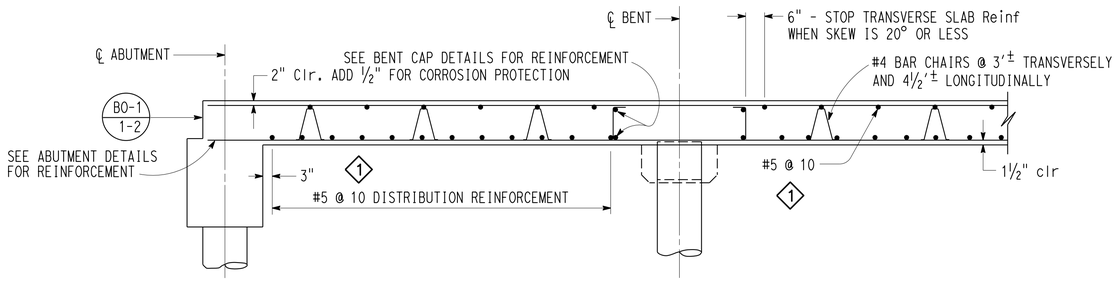
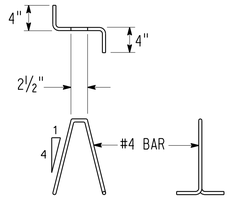
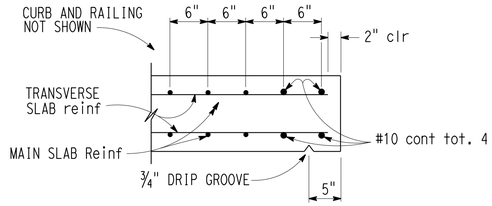


LONGITUDINAL SECTION



BAR CHAIR DETAIL

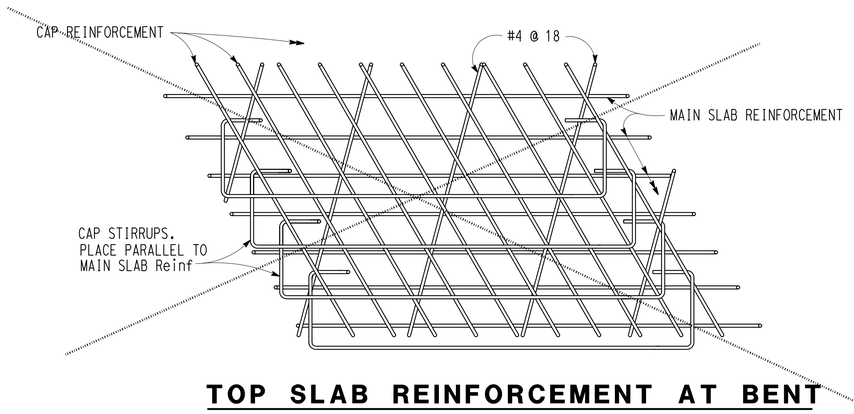


EDGE OF SLAB DETAILS

BAR SPLICE LENGTH								
BAR SIZE	#4	#5	#6	#7	#8	#9	#10	#11
ALL BARS, EXCEPT TOP BARS IN SPANS OVER 24'	23"	28"	34"	39"	45"	68"	76"	85"
TOP BARS IN SPANS OVER 24'	23"	28"	34"	53"	60"	77"	97"	120"

Reinforcement notes:

Splices in top main bars to be located near center of span.
Splices in bottom main bars to be located near bent.
Spacing of all transverse bars is measured along ℄ roadway.
Skew 0° to 20°: Place all transverse bars parallel to bent.
Skew over 20°: Place transverse slab bars perpendicular to ℄ bridge. See details at right and below.



TOP SLAB REINFORCEMENT AT BENT

Note: View for main span over 24'.
Bar placement similar for spans under 24'

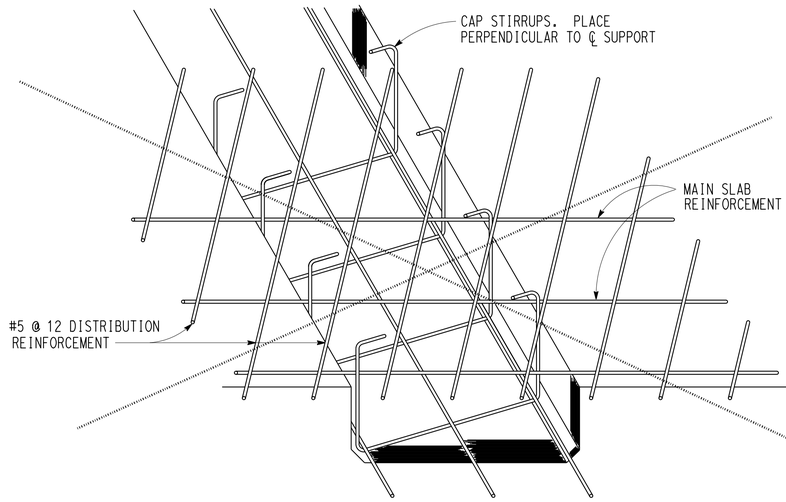
GENERAL NOTES
LOAD FACTOR DESIGN

DESIGN: Bridge Design Specifications
(1983 AASHTO with Interims and Revisions by Caltrans)

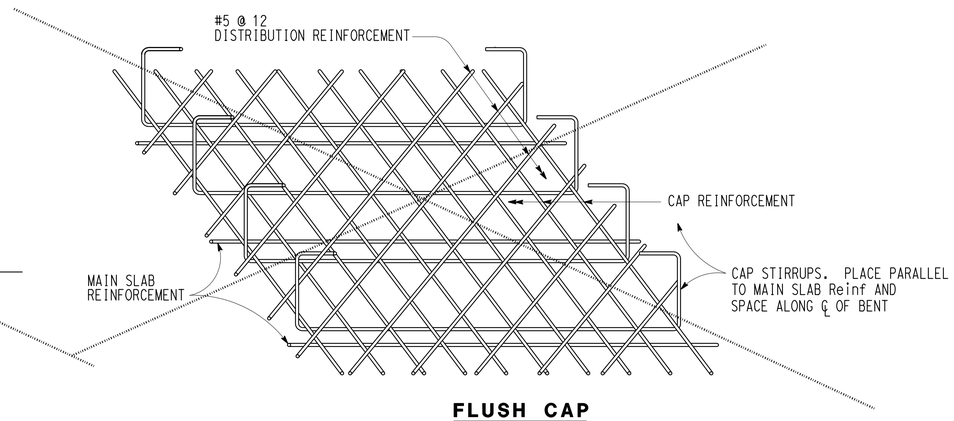
DEAD LOAD: Includes 35 psf for future wearing surface.

LIVE LOADING: HS20-44 and alternative and permit design load.

REINFORCED CONCRETE: fy = 60,000 psi
f'c = 3,250 psi
n = 9



DROPPED CAP



FLUSH CAP

BOTTOM SLAB REINFORCEMENT AT BENT

REVISED STANDARD DRAWING

FILE NO. xs12-55

APPROVED BY _____ RESPONSIBLE TECHNICAL SPECIALIST
APPROVAL DATE - -

RELEASED BY _____ RESPONSIBLE OFFICE CHIEF
RELEASE DATE - -

1 REVISED REINFORCING NOTE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO. 51-0341
POST MILE 22.3-23.0

SAN PEDRO CREEK BRIDGE
SLAB REINFORCEMENT DETAILS

DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. 01/11/08)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 05
EA 0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 06-05-12 08-02-12

SHEET 12 OF 18

USERNAME => s124496

51-0341-m-slab-det.dgn

DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:23

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	22.3/23.0	338	343

REGISTERED CIVIL ENGINEER — 1-17-13 DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — M. J. CULLEN — No. C 40620 — Exp. 03-31-13 — CIVIL — STATE OF CALIFORNIA

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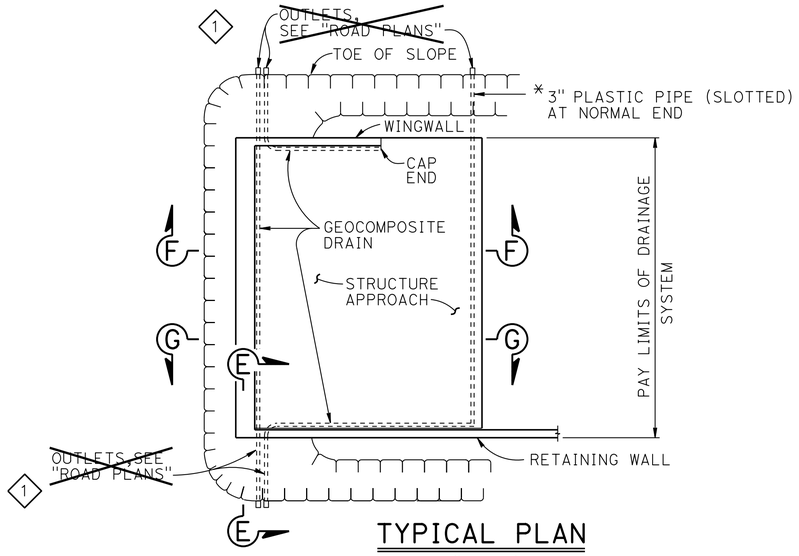
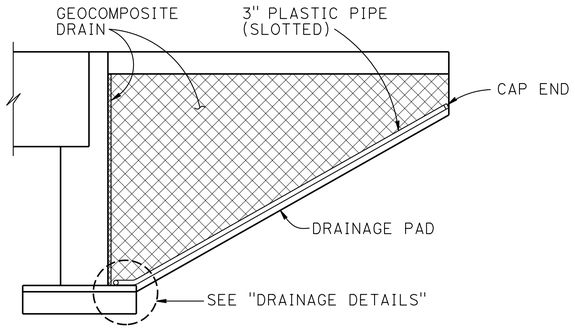


TYPICAL PLAN
1" = 10'

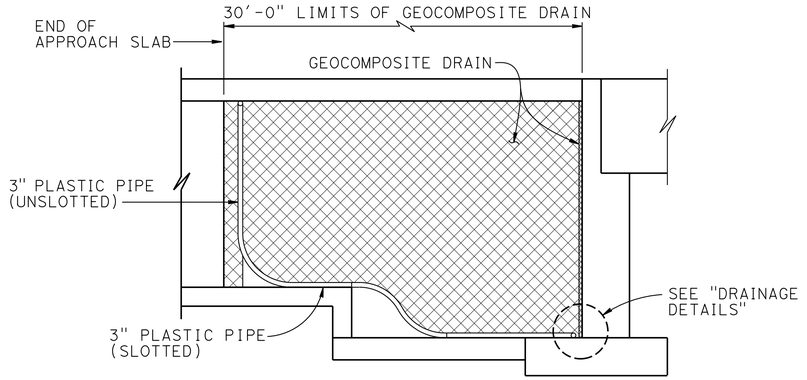
* FOR PIPE LAYOUT AT STAGGERED END, SEE "DETAIL B"



CANTILEVER WINGWALL

SECTION F-F
¼" = 1'-0"

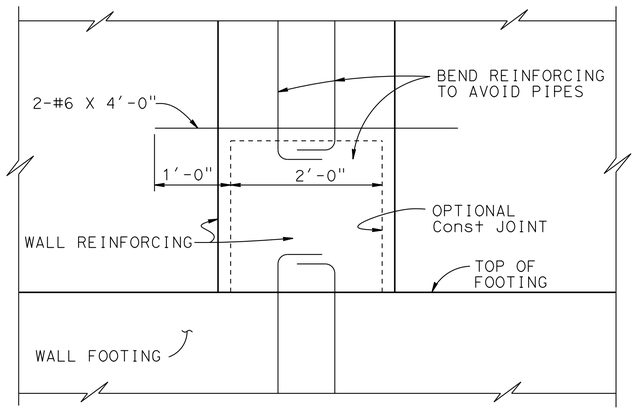
1 Outlets through the Wingwall not required. For further drainage details See "ABUTMENT DETAIL" sheets



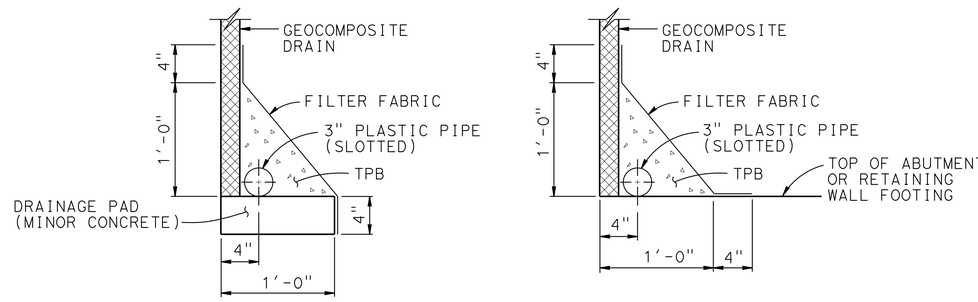
RETAINING WALL WINGWALL DRAINAGE DETAILS

SECTION E-E
½" = 1'-0"

NOTE: Bends and junctions in 3" plastic pipe are 30" radius Min



SECTION H-H
1" = 1'-0"



WITHOUT FOOTING

WITH FOOTING

DRAINAGE DETAILS
1½" = 1'-0"

STANDARD DRAWING		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 51-0341	SAN PEDRO CREEK BRIDGE
FILE NO. xs3-110	APPROVAL DATE July 2011			POST MILE 22.3-23.0	STRUCTURE APPROACH DRAINAGE DETAILS

DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02-11)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3591
PROJECT NUMBER & PHASE: 0500000055-1 CONTRACT NO.: 05-0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 6-25-12 | 10-09-12

SHEET 13 OF 18

FILE => 51-0341-s-sadd-xs3-110.dgn

USERNAME => s124496 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:23

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	22.3/23.0	339	343

MJ Cullen 1-17-13
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

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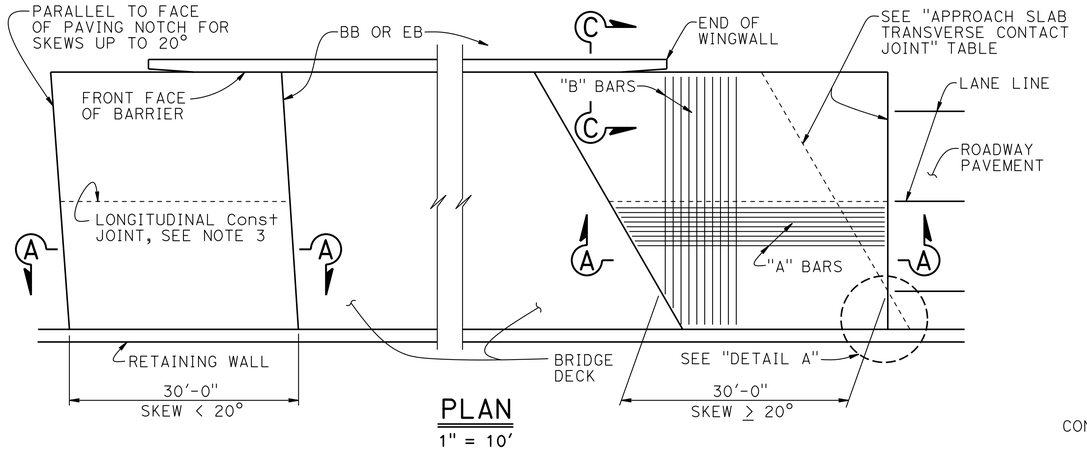
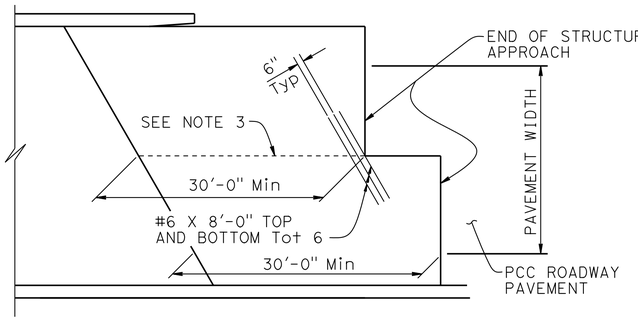
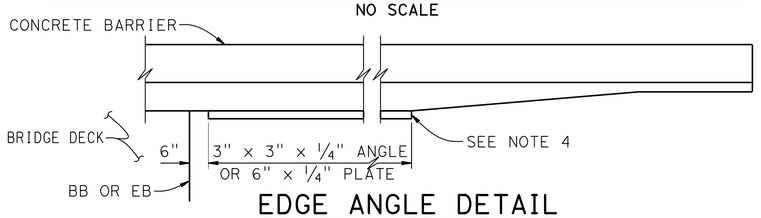
REGISTERED PROFESSIONAL ENGINEER
M. J. CULLEN
No. C 40620
Exp. 03-31-13
CIVIL
STATE OF CALIFORNIA



PLAN
1" = 10'

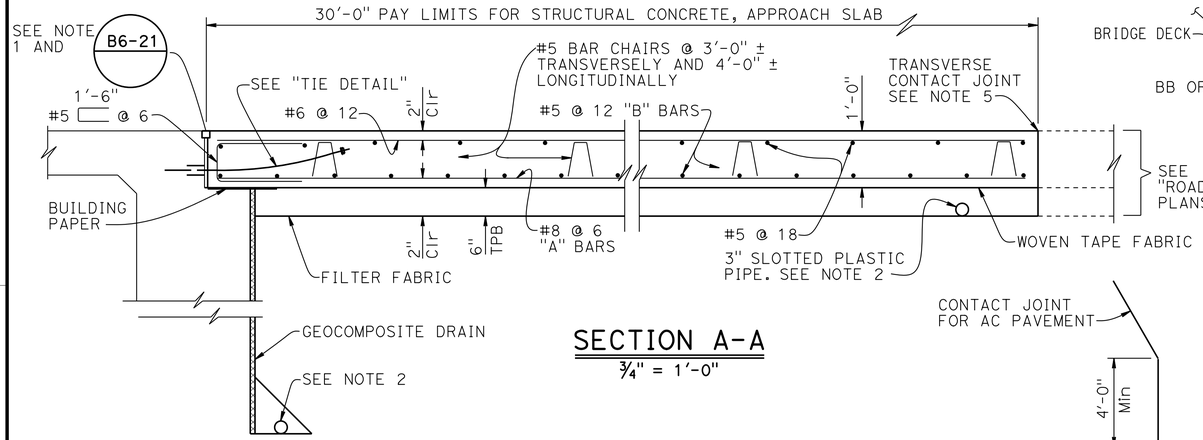


STRUCTURE APPROACH - END STAGGER DETAIL
NO SCALE



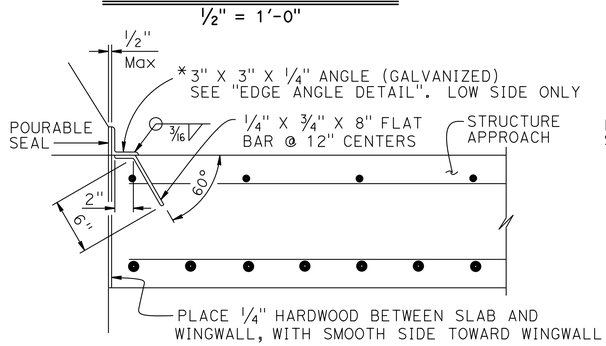
EDGE ANGLE DETAIL
½" = 1'-0"

APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 20°	PARALLEL TO FACE OF PN	PARALLEL TO FACE OF PN
20° - 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER LINES 24' TO 36' APART
> 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER AT EACH LANE LINE

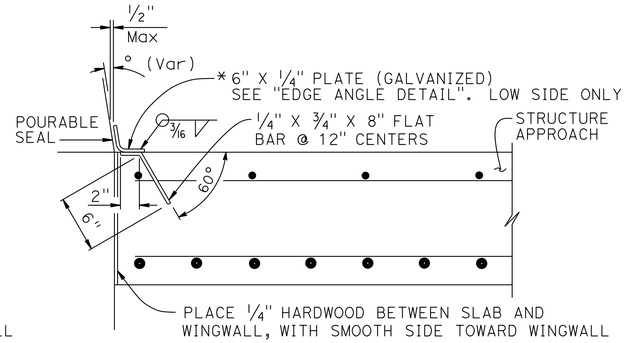


SECTION A-A
¾" = 1'-0"

DETAIL A
NO SCALE

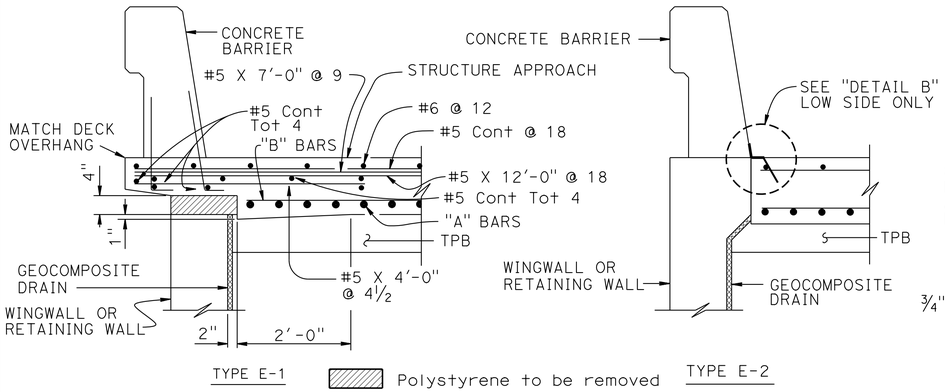


*(TO BE USED WITH CONCRETE BARRIER WITH VERTICAL FACE)



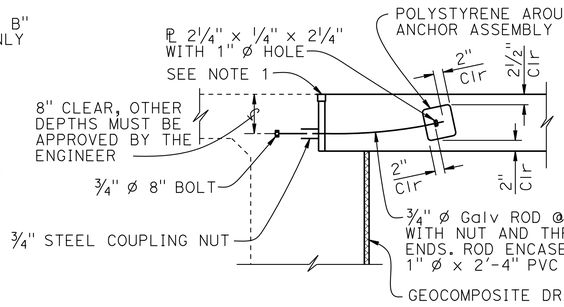
*(TO BE USED WITH CONCRETE BARRIER WITH SLOPING FACE)

DETAIL B
1½" = 1'-0"

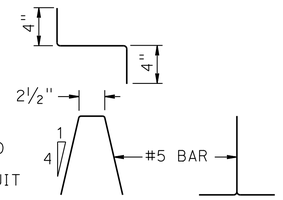


Polystyrene to be removed

SECTION C-C
¾" = 1'-0"
(Type E-1 to be used, unless otherwise shown on plans)



TIE DETAIL
¾" = 1'-0"



BAR CHAIR DETAIL
1½" = 1'-0"

NOTES:
1. For details not noted or shown, see Structure Plans
2. For drainage details, see "STRUCTURE APPROACH DRAINAGE DETAILS" sheet
3. Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines
4. End angle or plate at beginning of barrier transition, end of wingwall or end of structure approach, as applicable
5. For transverse contact joint with new PCC paving, refer to Standard Plan P10
6. At the contractor's option, approach slab transverse reinforcement may be placed parallel to paving notch. Spacing of transverse reinforcement is measured along ℄ roadway

STANDARD DRAWING		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 51-0341	SAN PEDRO CREEK BRIDGE
FILE NO. xs3-140	APPROVAL DATE July 2011			POST MILE 22.3-23.0	STRUCTURE APPROACH TYPE N(30D)

DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02-11)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3591
PROJECT NUMBER & PHASE: 0500000055-1 CONTRACT NO.: 05-0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
6-25-12				14	18

FILE => 51-0341-t-strapp-tn30d-xs3-140.dgn

USERNAME => s124496 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:23

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	22.3/23.0	340	343

MJ Cullen 1-17-13
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — M. J. CULLEN — No. C 40620 — Exp. 03-31-13 — CIVIL — STATE OF CALIFORNIA

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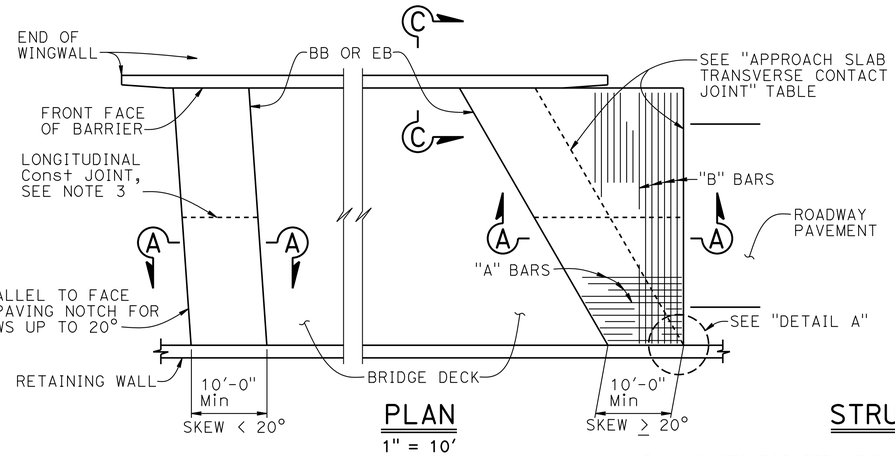
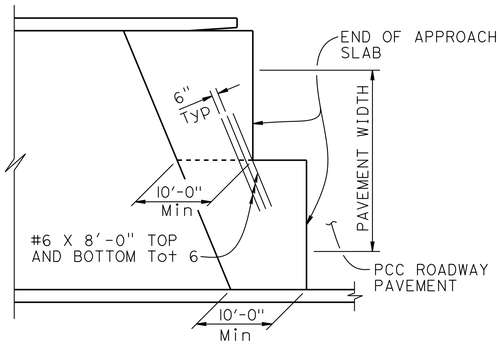
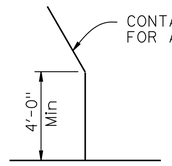


PLAN
1" = 10'

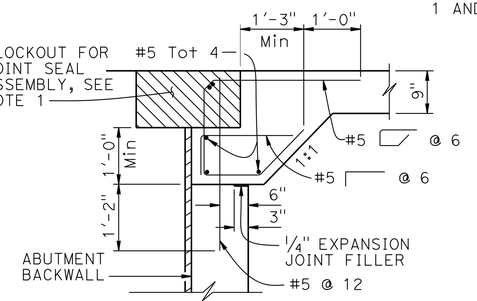




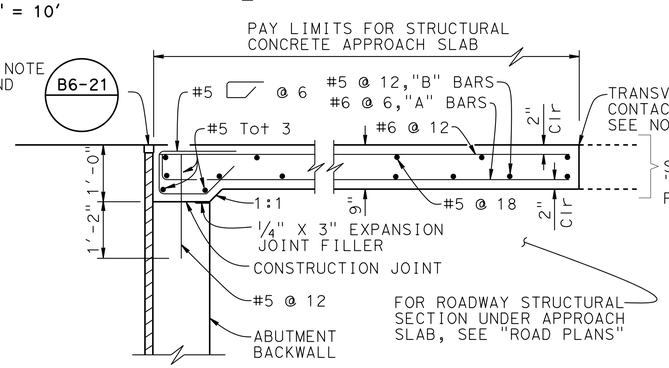
DETAIL A
No Scale

APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 20°	PARALLEL TO FACE OF PN	PARALLEL TO FACE OF PN
20° - 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER LINES 24' TO 36' APART
> 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER AT EACH LANE LINE

STRUCTURE APPROACH - END STAGGER DETAIL
NO SCALE



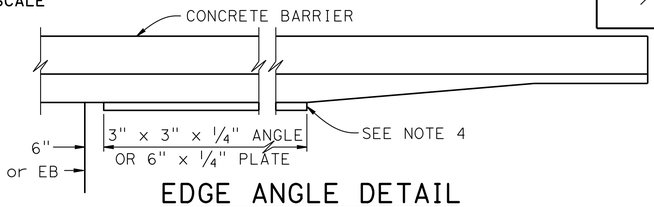
MR > 2"



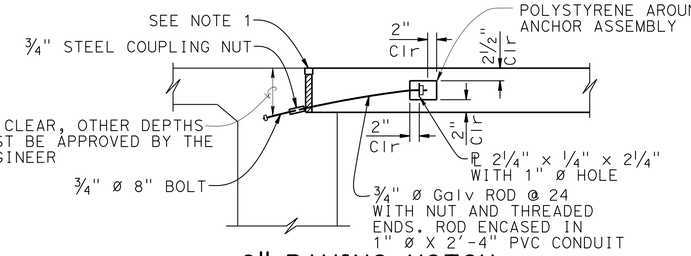
MR ≤ 2"

SEAT TYPE ABUTMENT
SECTION A-A
¾" = 1'-0"

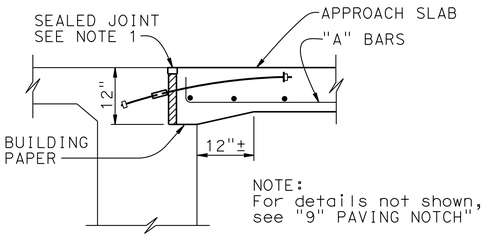
NOTE: Seat type abutment shown, for diaphragm type abutment, see "ABUTMENT TIE DETAILS"



EDGE ANGLE DETAIL
½" = 1'-0"



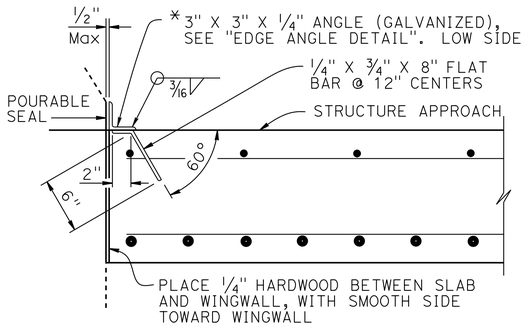
9" PAVING NOTCH



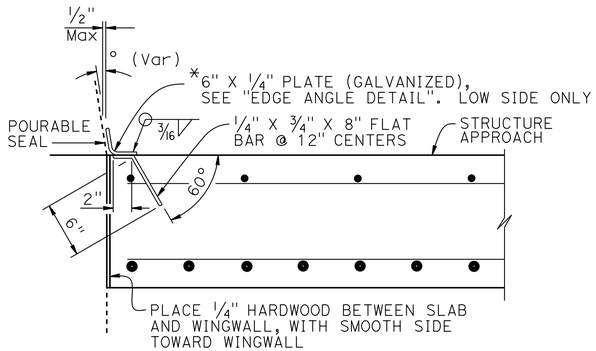
NOTE:
For details not shown, see "9" PAVING NOTCH"

12" PAVING NOTCH

DIAPHRAGM TYPE ABUTMENT
ABUTMENT TIE DETAILS
¾" = 1'-0"

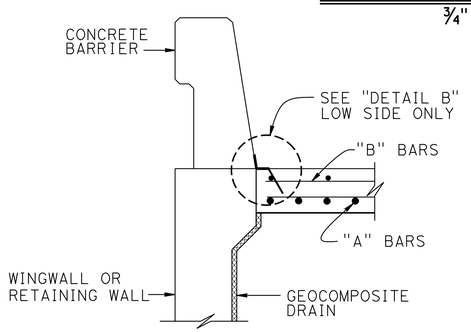


*(TO BE USED WITH CONCRETE BARRIER WITH VERTICAL FACE)



*(TO BE USED WITH CONCRETE BARRIER WITH SLOPING FACE)

DETAIL B
1½" = 1'-0"



SECTION C-C
¾" = 1'-0"

NOTES:
1. For details not noted or shown, see Structure Plans. Adjust bar reinforcement to clear a sawcut for sealed joint, when required
2. For transverse contact joint with new PCC paving, refer to Standard Plan P10
3. Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines
4. End angle or plate at beginning of barrier transition, end of wingwall or end of structure approach as applicable
5. At the Contractor's option, approach slab transverse reinforcement may be placed parallel to paving notch. Spacing of transverse reinforcement is measured along ℄ roadway
6. For drainage details, see Structure Plans.

STANDARD DRAWING
FILE NO. xs3-160
APPROVAL DATE July 2011

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO.	51-0341
POST MILE	22.3-23.0

SAN PEDRO CREEK BRIDGE
STRUCTURE APPROACH TYPE EQ(10)

DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02-11)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3591
PROJECT NUMBER & PHASE: 0500000055-1 CONTRACT NO.: 05-0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-25-12				15	18

FILE => 51-0341-t-strapp-type-xs3-160.dgn

USERNAME => s124496 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:23

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	22.3/23.0	341	343

Ryan Turner 8-29-12
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

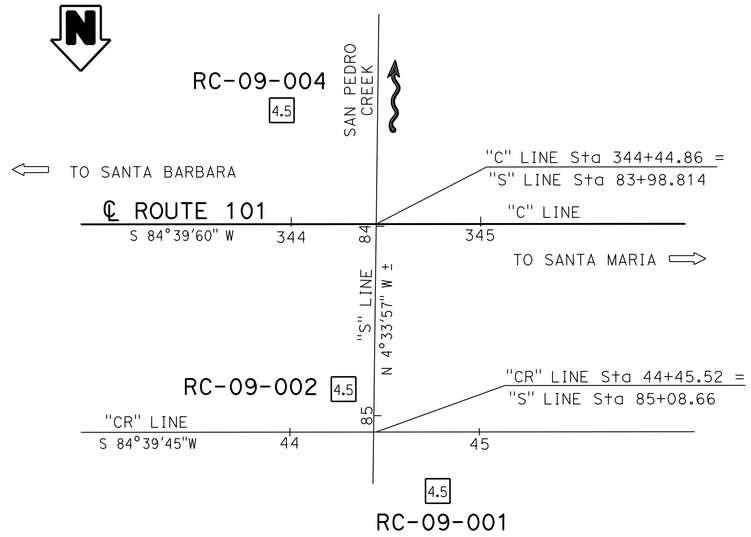
REGISTERED PROFESSIONAL ENGINEER — Ryan Turner No. C73956 Exp. 6-30-13 CIVIL — STATE OF CALIFORNIA

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition).

See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

BENCH MARK

SB 101 PM 22.77
Fnd 1" IP w/ CDOT PP & nail
61.23' Lt ℄ Rte 101,
Sta 342+50.79
N 1987185.57
E 6007989.41
Elev 29.03'
Vert Datum: NAVD88



PLAN
1" = 40'

Note: Ground water not measured on Borings RC-09-004 and RC-09-002.

PROFILE
Horiz: 1" = 10'
Vert: 1" = 10'

ENGINEERING SERVICES	GEOTECHNICAL SERVICES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6	BRIDGE NO. 51-0341	SAN PEDRO CREEK BRIDGE
FUNCTIONAL SUPERVISOR NAME: M. Finegan	DRAWN BY: I.G-Remmen; CHECKED BY: D. Appelbaum	FIELD INVESTIGATION BY: R. Turner		POST MILE 22.3-23.0	LOG OF TEST BORINGS 1 OF 3

OGS CIVIL LOG OF TEST BORINGS SHEET — ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3643
PROJECT NUMBER & PHASE: 0500000055 & 1 CONTRACT NO.: 05-0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-09-12	08-14-12	08-28-12		16	18

FILE => 51-0341-z-1tb01.dgn

USERNAME => s124496 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:23

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	22.3/23.0	342	343

Ryan Turner 8-29-12
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Ryan Turner No. C73956 Exp. 6-30-13 CIVIL — STATE OF CALIFORNIA

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FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS" 1 OF 3

PROFILE
Horiz: 1" = 10'
Vert: 1" = 10'

ENGINEERING SERVICES	GEOTECHNICAL SERVICES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN	BRIDGE NO.	SAN PEDRO CREEK BRIDGE
FUNCTIONAL SUPERVISOR: M. Finegan	DRAWN BY: I.G-Remmen	FIELD INVESTIGATION BY:	DESIGN BRANCH 6	51-0341	LOG OF TEST BORINGS 2 OF 3
	CHECKED BY: D. Appelbaum	R. Turner		POST MILE 22.3-23.0	

OGS CIVIL LOG OF TEST BORINGS SHEET

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3643
PROJECT NUMBER & PHASE: 0500000055 & 1 CONTRACT NO.: 05-0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-09-12	08-14-12	08-28-12		17	18

FILE => 51-0341-z-1+b02.dgn

USERNAME => s124396 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:23

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	101	22.3/23.0	343	343

Ryan Turner 8-29-12
REGISTERED CIVIL ENGINEER DATE

4-29-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Ryan Turner — No. C73956 — Exp. 6-30-13 — CIVIL — STATE OF CALIFORNIA

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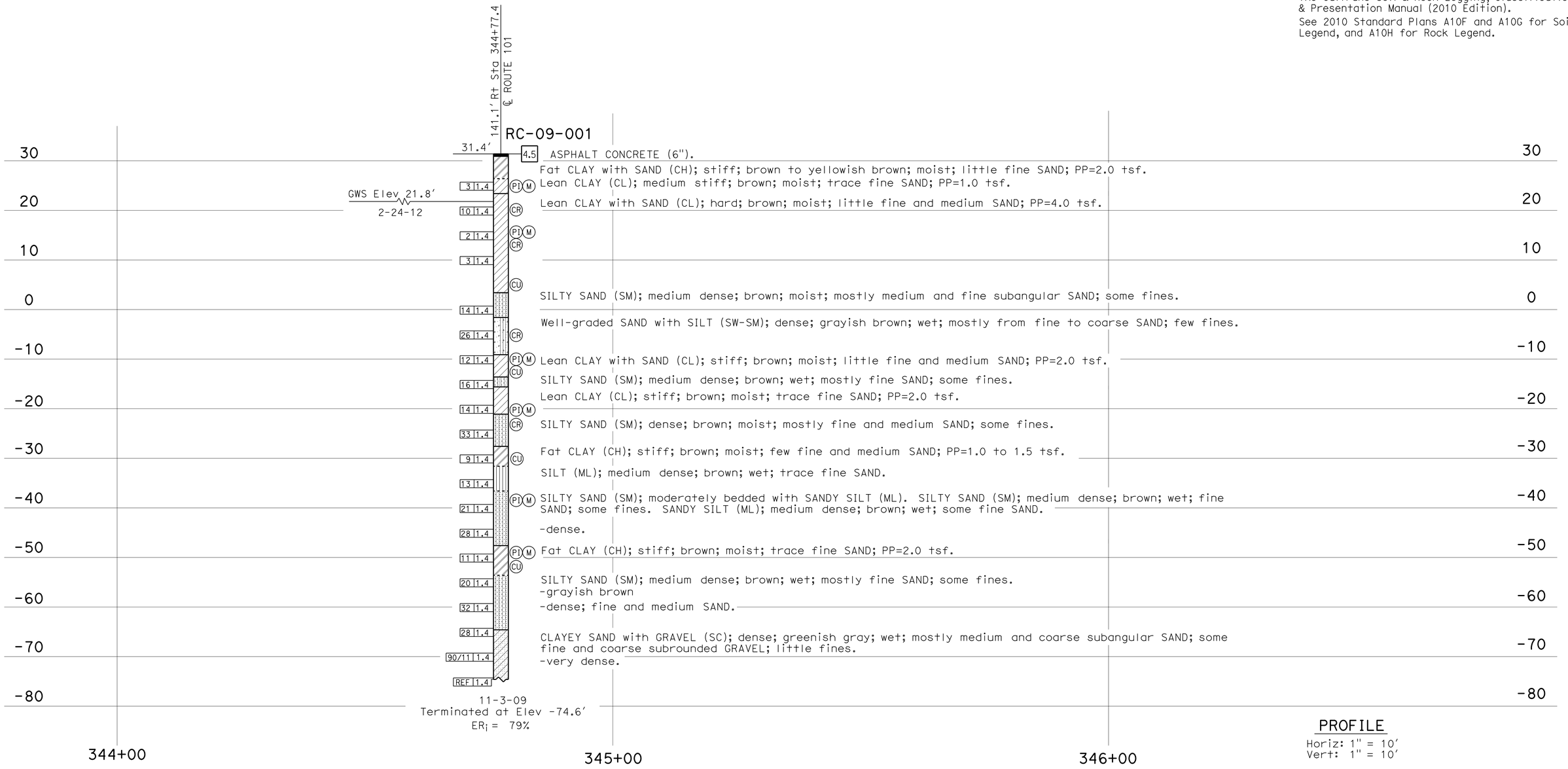
FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS" 1 OF 3



PROFILE
Horiz: 1" = 10'
Vert: 1" = 10'

ENGINEERING SERVICES		GEOTECHNICAL SERVICES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN	BRIDGE NO.	SAN PEDRO CREEK BRIDGE
FUNCTIONAL SUPERVISOR	DRAWN BY: I.G-Remmen	FIELD INVESTIGATION BY:		DESIGN BRANCH 6	51-0341	LOG OF TEST BORINGS 3 OF 3
NAME: M. Finegan	CHECKED BY: D. Appelbaum	R. Turner			POST MILE 22.3-23.0	

OGS CIVIL LOG OF TEST BORINGS SHEET

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3643
PROJECT NUMBER & PHASE: 0500000055 & 1 CONTRACT NO.: 05-0G0701

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-09-12	08-14-12	08-28-12		18	18

FILE => 51-0341-z-1tb03.dgn

USERNAME => s1244966 DATE PLOTTED => 03-MAY-2013 TIME PLOTTED => 11:23