

# Draft Project Report

## I-10 Corridor Project



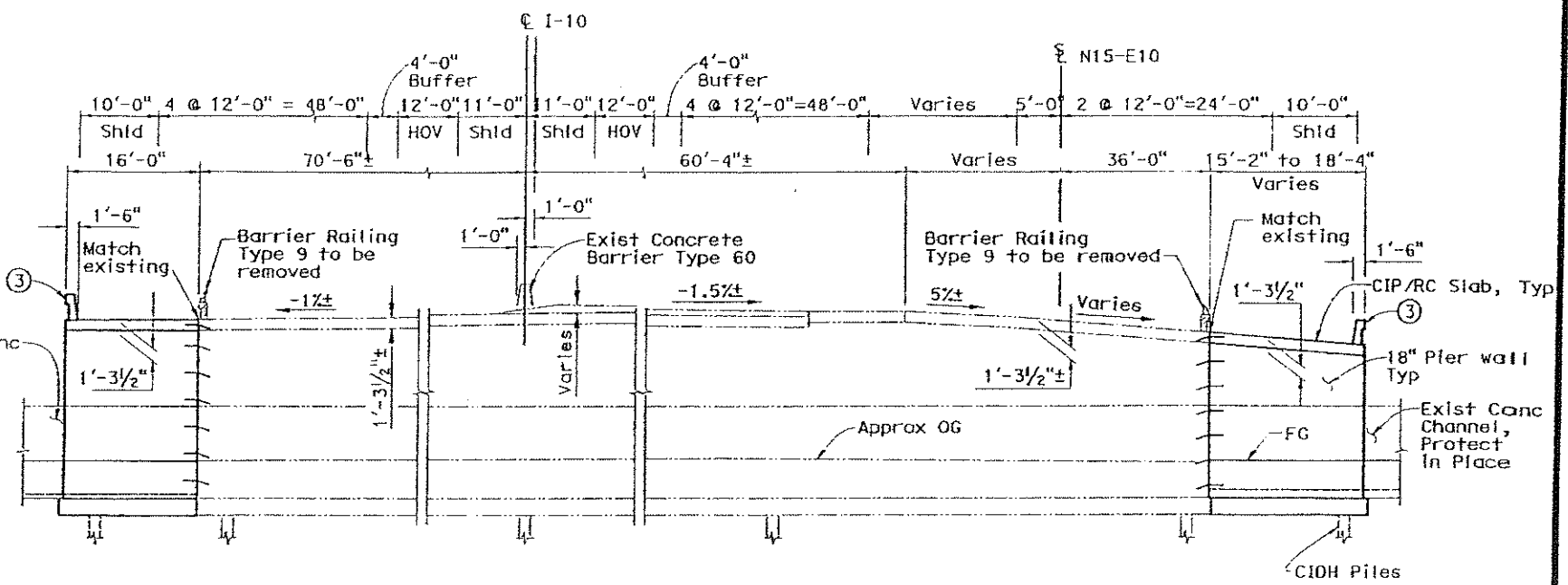
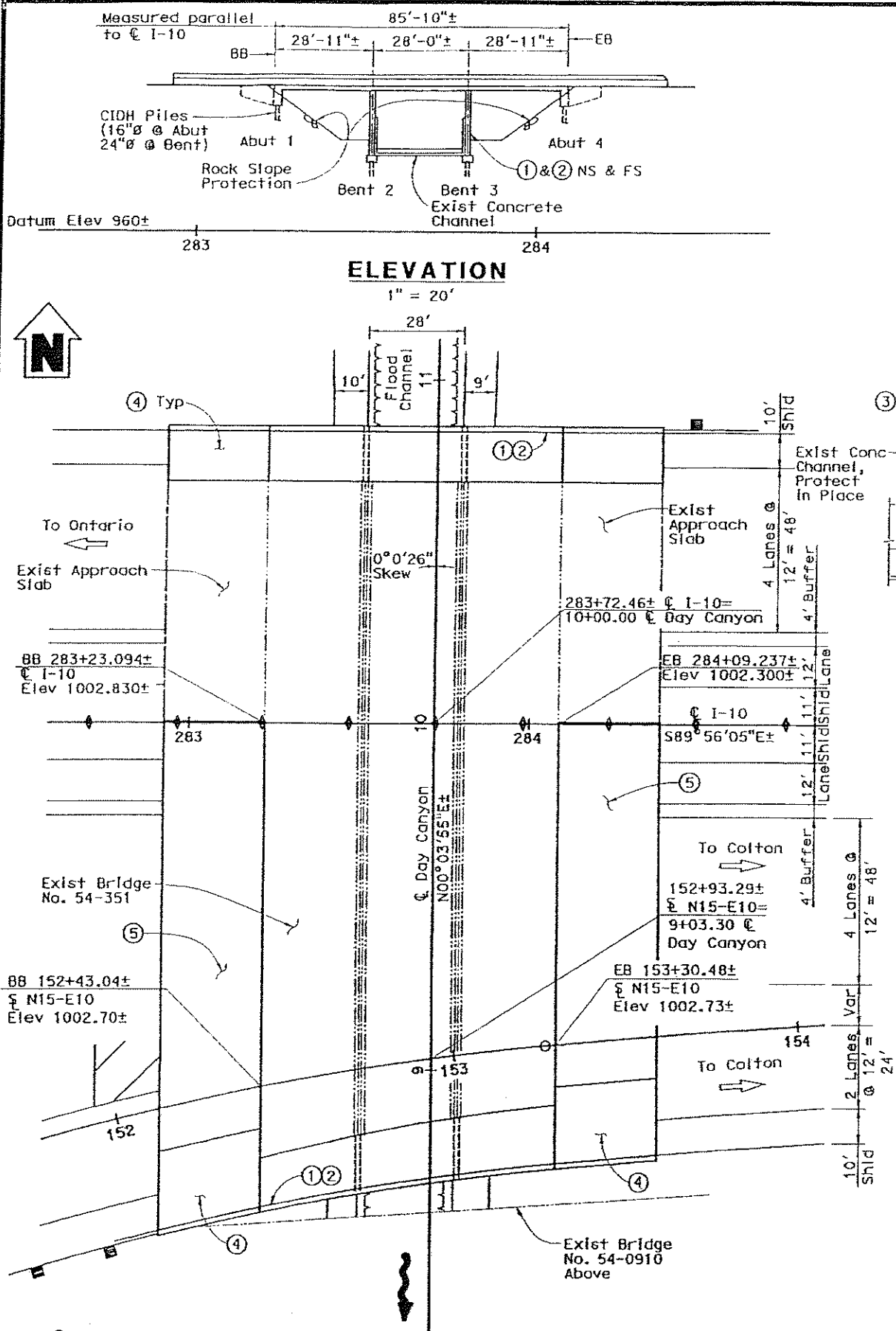
### ATTACHMENT E

### Structure Advance Planning Studies

## **ALTERNATIVE 2**

Advance Planning Studies (APSs) were prepared and approved in 2008 and 2009 for major structure modifications proposed under the HOV Alternative and are attached herein. However, a considerable change has been made to the HOV Alternative design since the APS development as a result of the policy change from buffer-separated HOV facility to continuous access. As such, the APS general plans may not be representative of the current structure improvements for the HOV Alternative.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT
8	Sbd	10	3.20/33.43
SAN BERNARDINO ASSOCIATED GOVERNMENTS			1170 W Third St 2nd Floor San Bernardino CA 92410
PARSONS			2201 DUPONT DRIVE SUITE 200 IRVINE, CA 92612



NOTE: All Piles not Shown  
**TYPICAL SECTION**  
1" = 10'

	North Bridge	South Bridge
DATE OF ESTIMATE	= 6/20/08	= 6/20/08
BRIDGE REMOVAL	= N/A	= N/A
STRUCTURE DEPTH	= 1'-3/2"	= 1'-3/2"
LENGTH	= 85'-10"	= 85'-10"
WIDTH	= 16'-0"	= 15'-2" to 18'-4"
AREA	= 1376 SF	= 1764 SF
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= \$333	= \$420
PRELIM SEISMIC RETROFIT	= \$150,000	= \$150,000
TOTAL COST	= \$700,000	= \$900,000

- Notes:
- ① Paint "Br No. 54-0351"
  - ② Paint "Day Canyon Channel Bridge"
  - ③ Concrete Barrier Type 736
  - ④ Structure Approach, Type N(30S)
  - ⑤ Structure Approach, Type R(30D)

**LEGEND:**

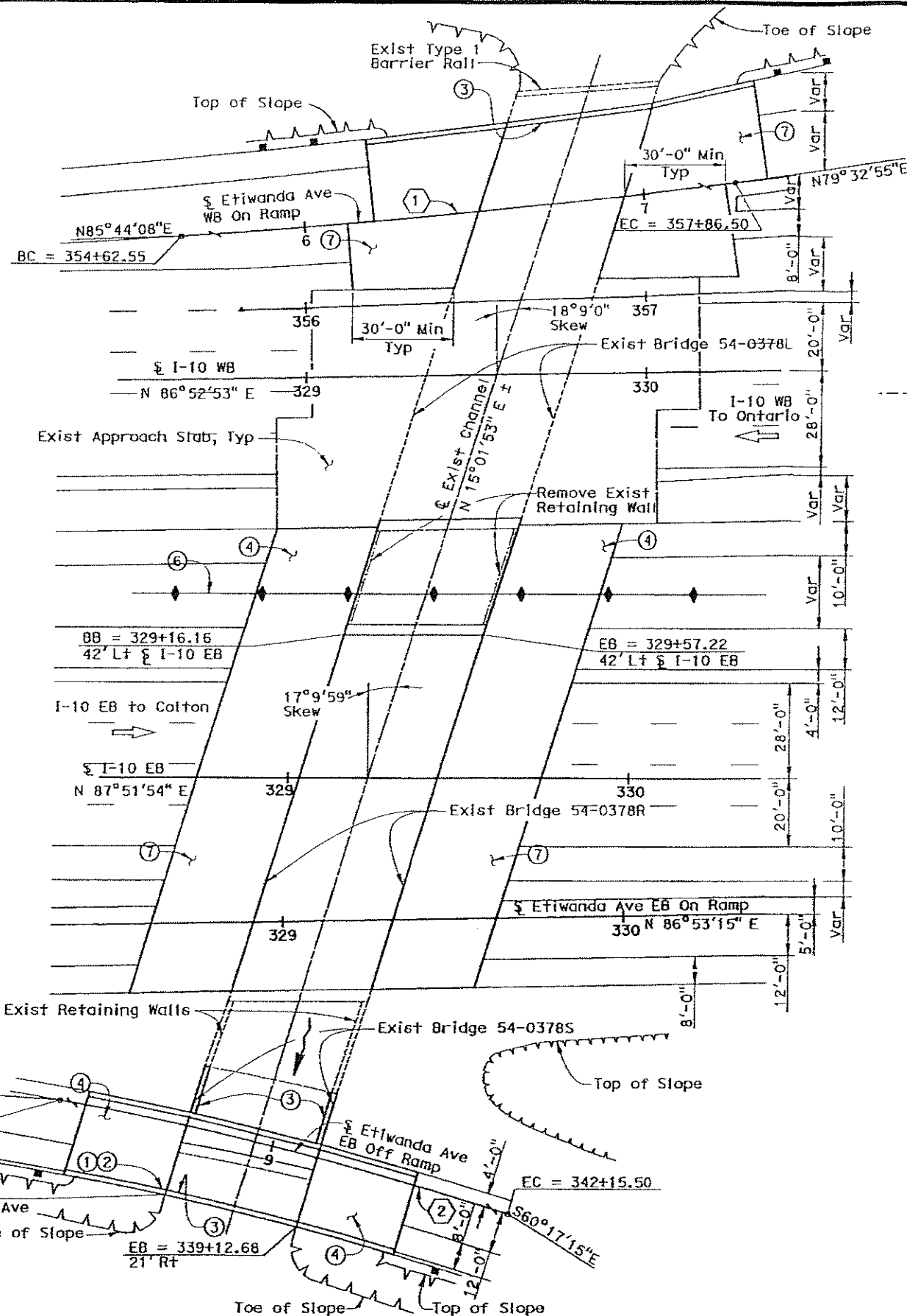
	Direction of Travel
	Bridge Removal (Portion)
	Direction of Flow
	MBGR

DESIGN OVERSIGHT  
SIGN OFF DATE: 9/12/08

**PLAN**  
1" = 20'

DESIGNED BY J. LE	DATE 6/20/08	Mohsen Mohseni PROJECT ENGINEER
DRAWN BY A. SEGURA	DATE 6/20/08	
CHECKED BY U. SANDIRA	DATE 6/20/08	
APPROVED M. MOHSENI	DATE 6/20/08	

PLANNING STUDY	
<b>DAY CANYON CHANNEL BRIDGE (WIDEN)</b>	
BRIDGE NO. 54-0351	CJ 08224
SCALE: AS SHOWN	EA OC2500



**PLAN**  
1" = 20'

**LEGEND:**

- Direction of Travel
- Bridge Removal (Portion)
- MBGR

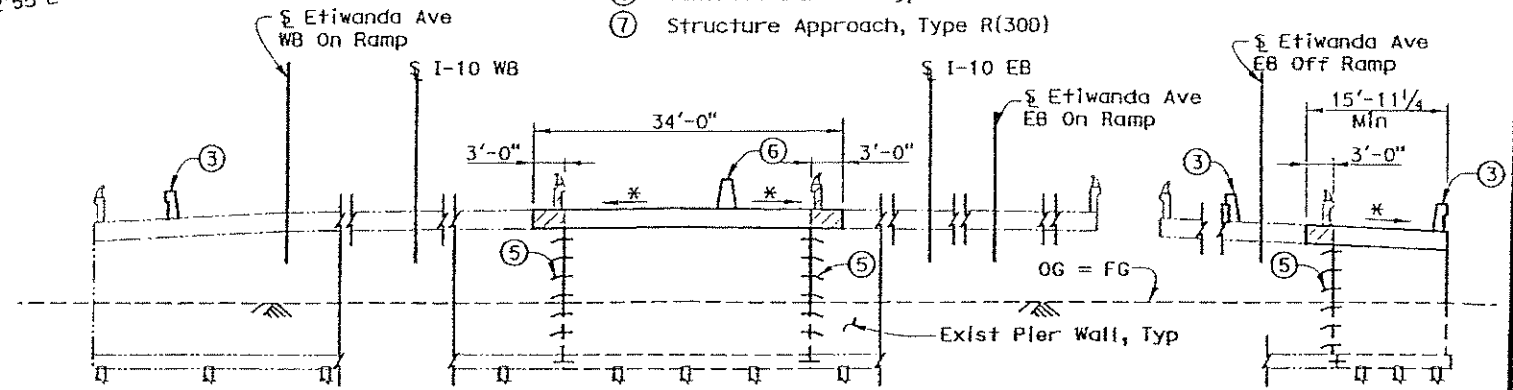
**Notes:**

- ① Paint "Br No. 54-378"
- ② Paint "Etiwanda Wash"
- ③ Concrete Barrier Type 736
- ④ Structure Approach, Type N(300)
- ⑤ Drill and Bond Dowels
- ⑥ Concrete barrier Type 60
- ⑦ Structure Approach, Type R(300)

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT
8	SBd	10	3.20/33.43

SAN BERNARDINO ASSOCIATED GOVERNMENTS  
1170 W Third St  
2nd Floor  
San Bernardino  
CA 92410

PARSONS  
2201 DUPONT DRIVE  
SUITE 200  
IRVINE, CA 92612



**TYPICAL SECTION**  
1" = 10'

**ELEVATION**  
1" = 10'

**CURVE DATA ①**

R = 3000'  
Δ = 6°11'13"  
L = 323.95'  
T = 162.13'

**CURVE DATA ②**

R = 1000'  
Δ = 27°57'21"  
L = 487.92'  
T = 248.92'

DATE OF ESTIMATE	=	6/20/08
BRIDGE REMOVAL	=	N/A
STRUCTURE DEPTH	=	1'-9" ~ 2'-0"
LENGTH	=	41'-0"
WIDTH	=	16'-0"
AREA	=	2066 SF
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	\$370 *
PRELIM SEISMIC RETROFIT	=	\$100,000
TOTAL COST	=	\$1,300,000

\* Cost/SF does not include new structure approach on existing bridge.

DESIGN OVERSIGHT  
*Lily Sun*  
4/12/08  
SIGN OFF DATE

DESIGNED BY	U. SANDIRA	DATE	6/24/08
DRAWN BY	A. SEGURA	DATE	6/24/08
CHECKED BY	M. MOHSENI	DATE	6/24/08
APPROVED	M. MOHSENI	DATE	6/24/08

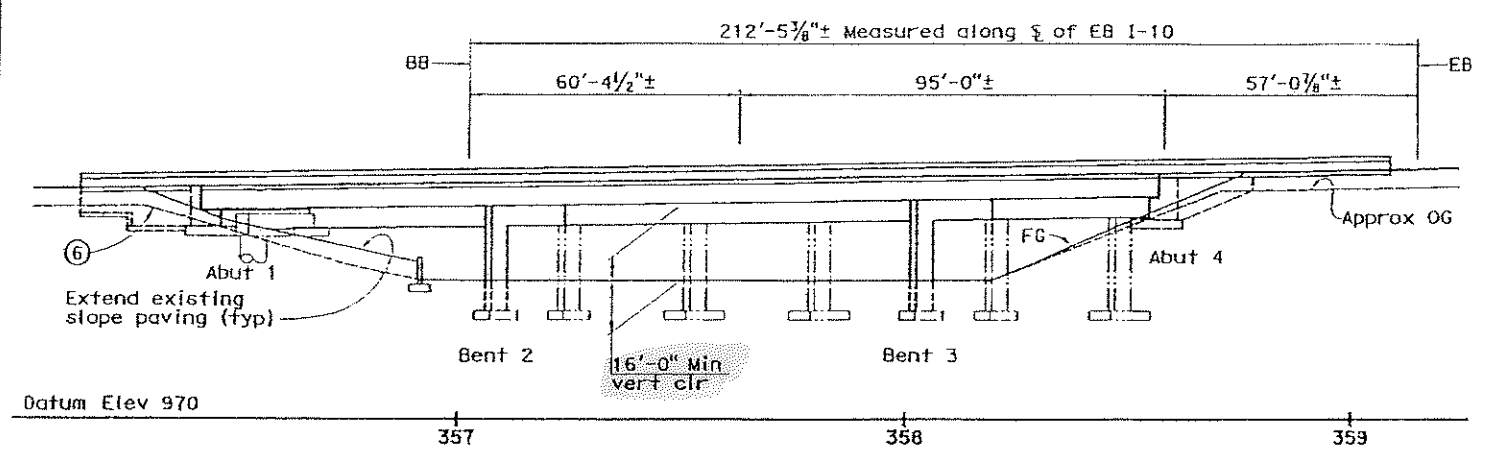
Mohsen Mohseni  
PROJECT ENGINEER

PLANNING STUDY	
ETIWANDA WASH (WIDEN)	
BRIDGE NO. 54-0378	CU 08224
SCALE: AS SHOWN	EA OC2500

PREPARED FOR THE STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

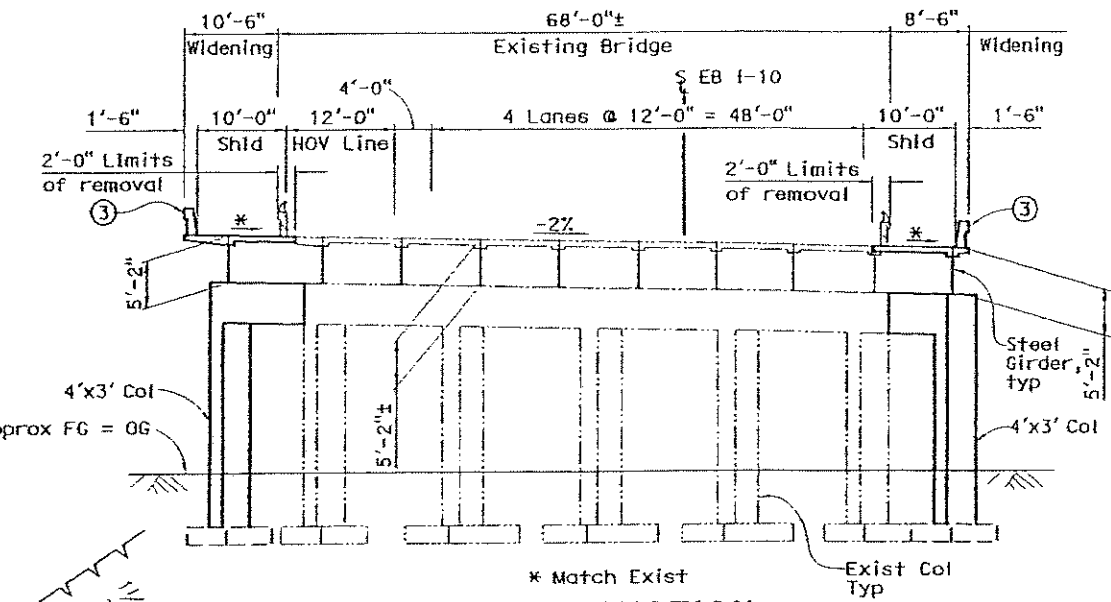
RECEIVED  
 SEP 02 2008  
 OFFICE OF SPECIAL FUNDED PROJECTS

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT
8	Sbd	10	3.20/33.43
SAN BERNARDINO ASSOCIATED GOVERNMENTS			1170 W Third St 2nd Floor San Bernardino CA 92410
PARSONS			2201 DUPONT DRIVE SUITE 200 IRVINE, CA 92612



**ELEVATION**  
 1" = 20'

Note: Traffic will pass through construction site (15'-0" min vert clearance required)



**TYPICAL SECTION**  
 1" = 10'

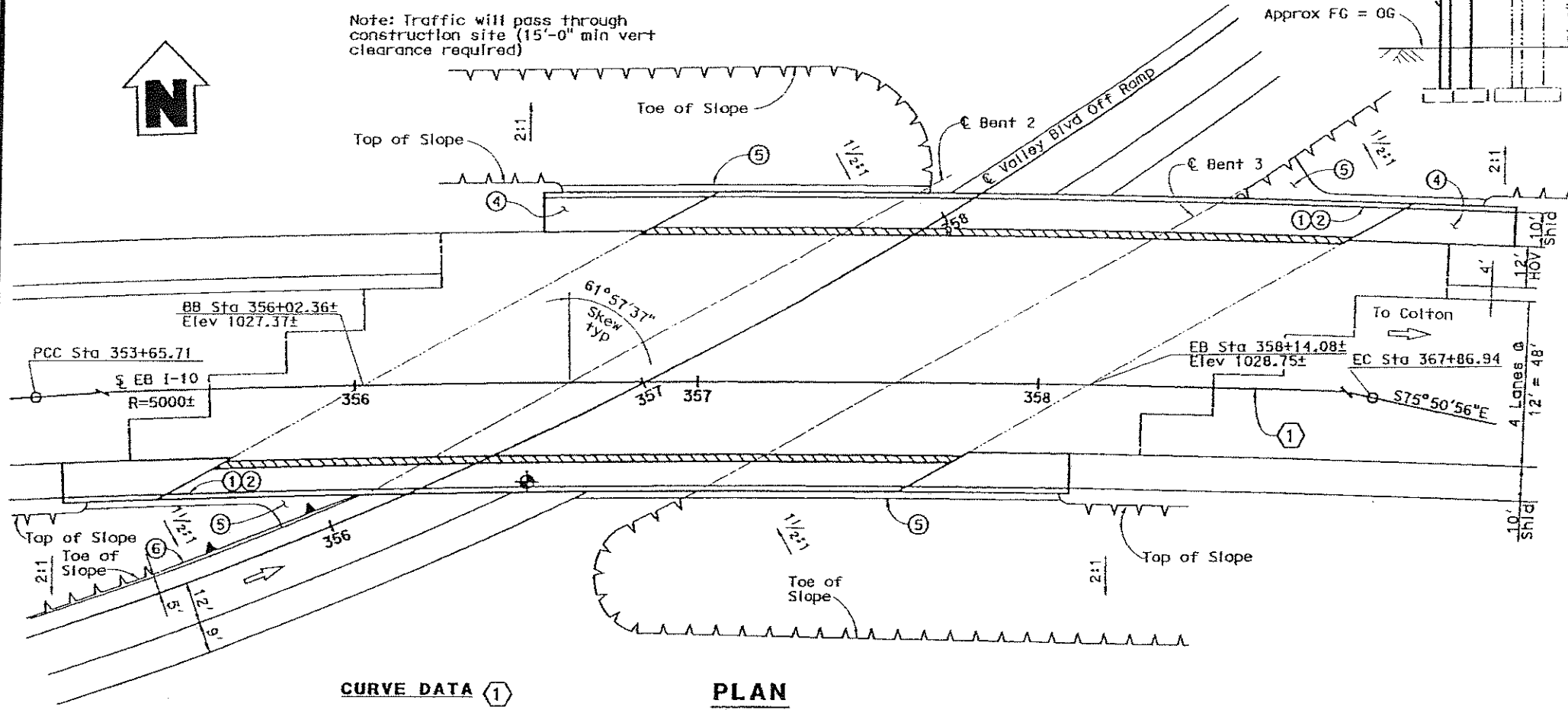
DATE OF ESTIMATE	=	6/24/08
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	5'-2"
LENGTH	=	212'-6"
WIDTH	=	19'-0"
AREA	=	4038 SF
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	\$194
PRELIM SEISMIC RETROFIT	=	\$137,500
TOTAL COST	=	\$1,000,000

**LEGEND:**

- ➔ Direction of Travel
- ⊕ Point of Minimum Vertical clearance
- ▨ Indicates Removal (Portion)

**Notes:**

- ① Paint "Br. No. 54-0030R"
- ② Paint "Valley Blvd Off-Ramp UC"
- ③ Concrete Barrier Type 736
- ④ Structure Approach, Type N(300)
- ⑤ Slope Paving
- ⑥ Retaining Wall



**CURVE DATA** ①

R = 5000'  
 Δ = 16°17'10"  
 L = 1421.23'  
 T = 715.44'

**PLAN**  
 1" = 20'

X *[Signature]*  
 DESIGN OVERSIGHT  
 X *[Signature]*  
 SIGN OFF DATE 9/12/08

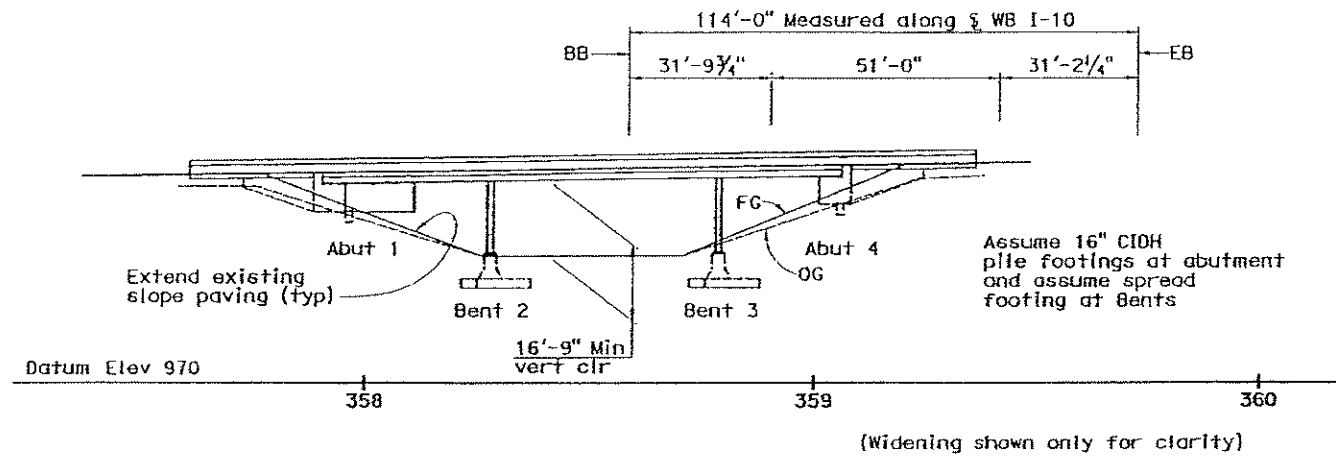
DESIGNED BY	S. DULOR	DATE	6/24/08
DRAWN BY	A. SEGURA	DATE	6/24/08
CHECKED BY	M. MOHSENI	DATE	6/24/08
APPROVED	M. MOHSENI	DATE	6/24/08

Mohsen Mohseni  
 PROJECT ENGINEER

PLANNING STUDY	
VALLEY BLVD OFF-RAMP UC - RIGHT BRIDGE (WIDEN)	
BRIDGE NO. 54-0030R	CU 08224
SCALE: AS SHOWN	EA OC2500

DATE PLOTTED => \$TIME USERNAME => \$USER

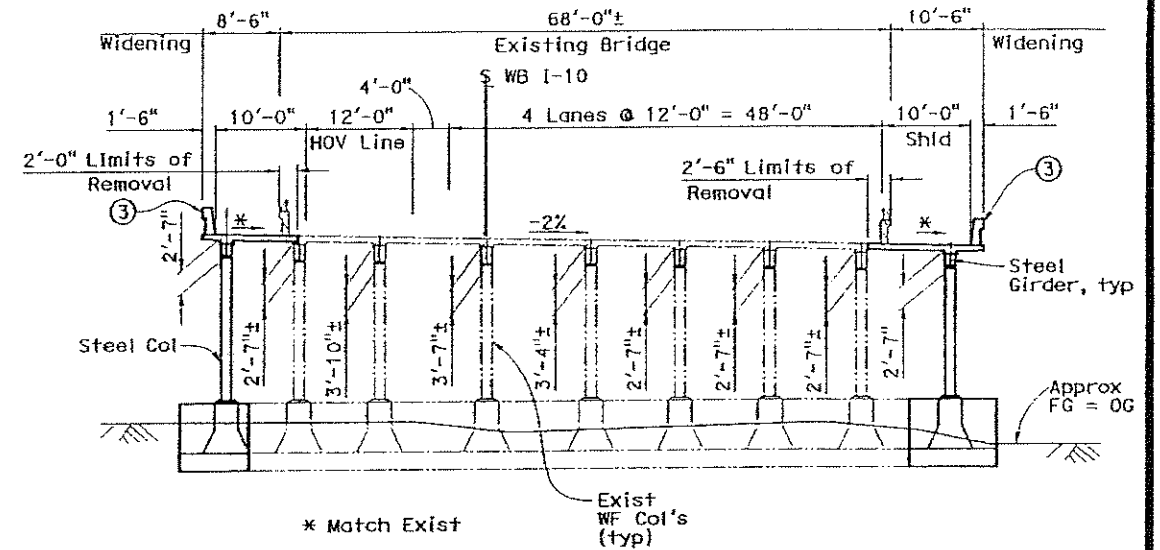
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT
8	SBd	10	3.20/33.43
SAN BERNARDINO ASSOCIATED GOVERNMENTS		1170 W Third St 2nd Floor San Bernardino CA 92410	
PARSONS		2201 DUPONT DRIVE SUITE 200 IRVINE, CA 92612	



**ELEVATION**

1" = 20'

Note: Traffic will pass through construction site (15'-0" min vert clearance required)



**TYPICAL SECTION**

1" = 10'

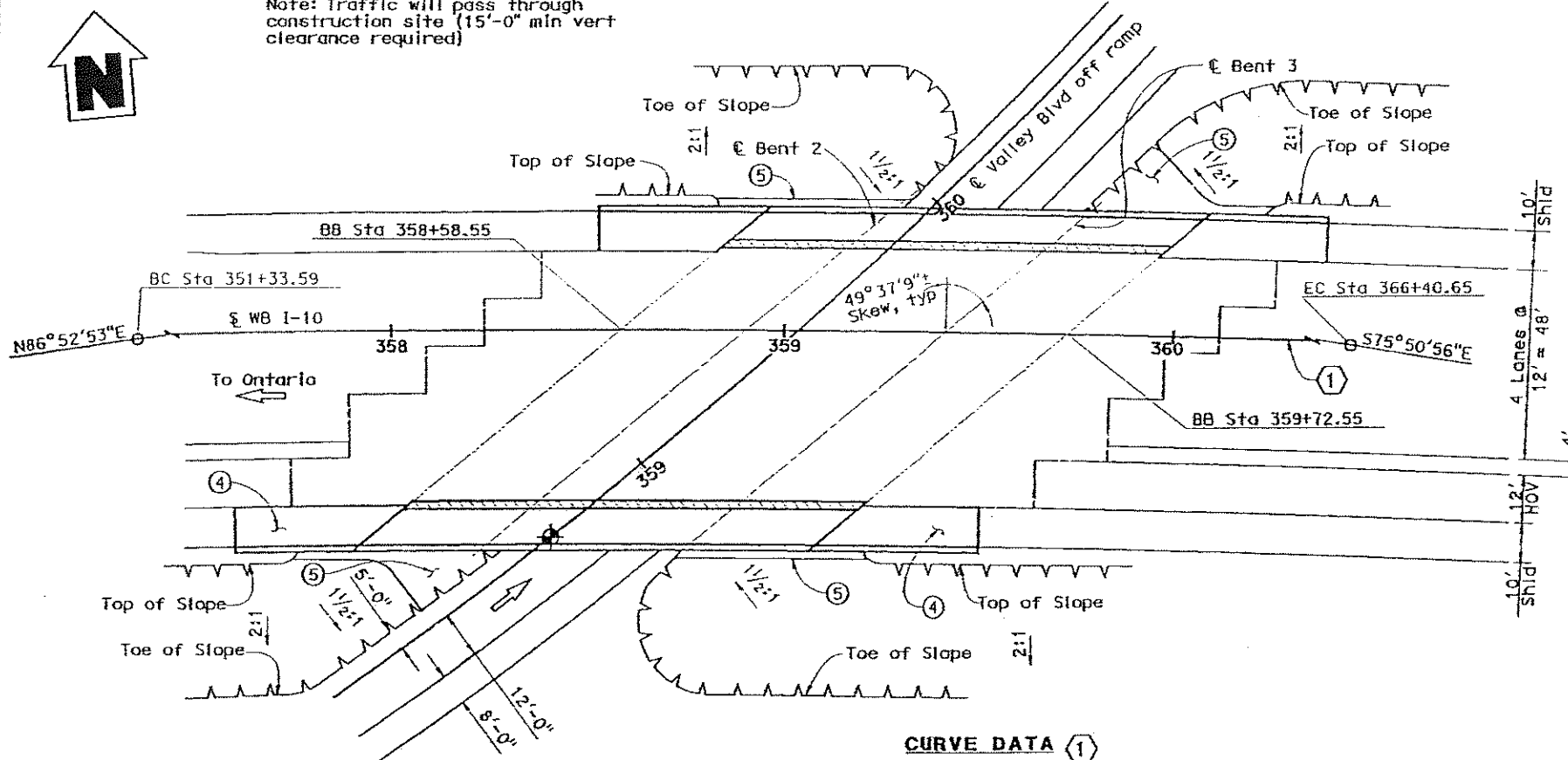
DATE OF ESTIMATE	=	6/20/08
BRIDGE REMOVAL	=	
STRUCTURE DEPTH	=	2'-4"
LENGTH	=	114'-0"
WIDTH	=	19'-0"
AREA	=	2,116 SF
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	\$269
PRELIM SEISMIC RETROFIT	=	\$137,500
BRIDGE MAINTENANCE ITEMS	=	\$41,250
TOTAL COST	=	\$800,000

**LEGEND:**

- ➔ Direction of Travel
- ⊙ Point of Minimum Vertical clearance

**Notes:**

- ① Paint "Br. No. 54-0030L"
- ② Paint "Valley Blvd Off-Ramp UC"
- ③ Concrete Barrier Type 736
- ④ Structure Approach, Type N(300)
- ⑤ Slope Paving



**CURVE DATA ①**

R = 5000'  
 $\Delta = 17^\circ 16' 11''$   
 L = 1507.06'  
 T = 759.29'

**PLAN**

1" = 20'

X *Lily Sun*  
 DESIGN OVERSIGHT  
 X 9/12/08  
 SIGN OFF DATE

DESIGNED BY	S. DULOR	DATE	6/20/08
DRAWN BY	A. SEGURA	DATE	6/20/08
CHECKED BY	M. MOHSENI	DATE	6/20/08
APPROVED	M. MOHSENI	DATE	6/20/08

Mohsen Mohseni  
 PROJECT ENGINEER

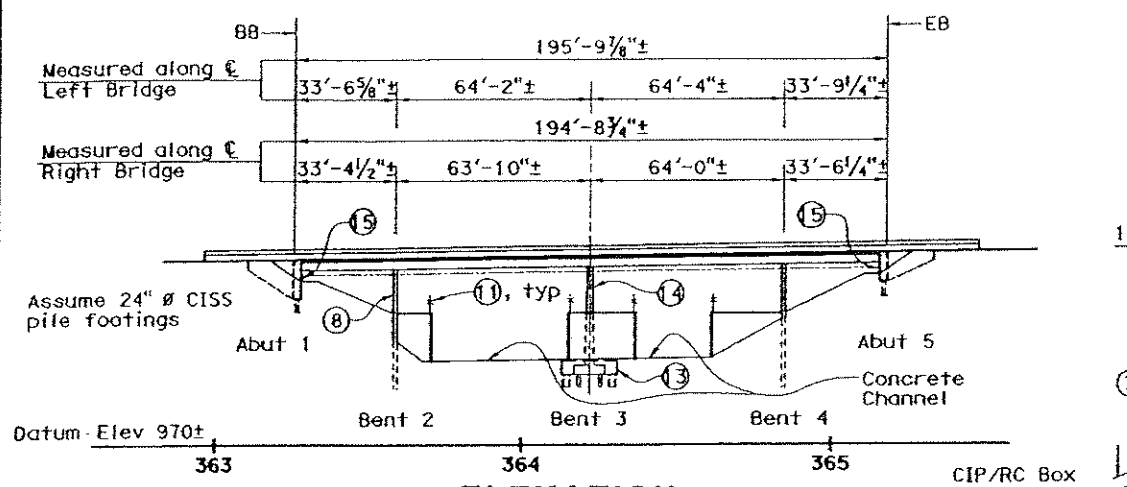
**PLANNING STUDY**

VALLEY BLVD OFF-RAMP UC -  
 LEFT BRIDGE (WIDEN)

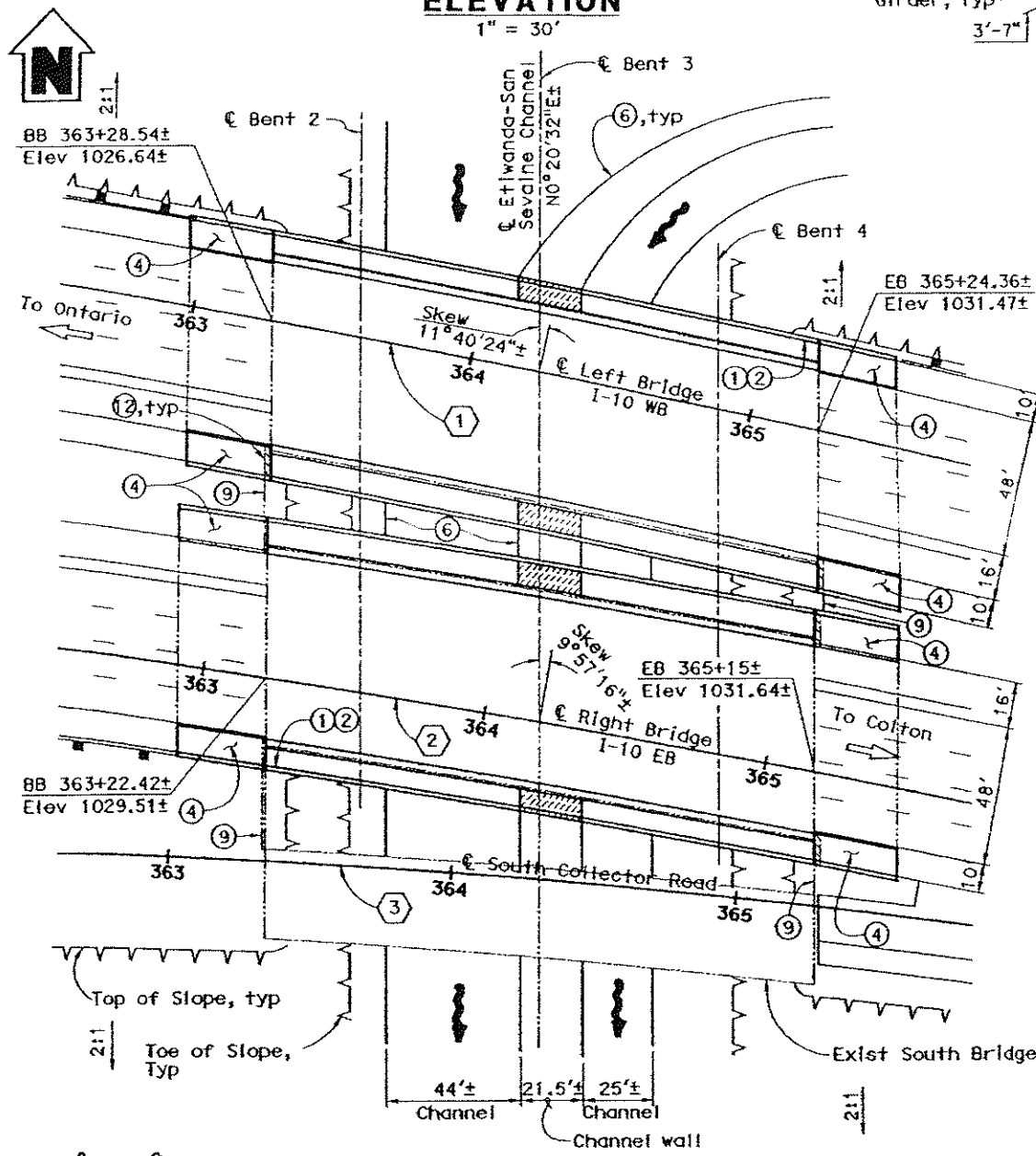
BRIDGE NO. 54-0030L	CU 08224
SCALE: AS SHOWN	EA 0C2500

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
8	SBd	10	8.20/33.43

**PARSONS** 2201 DUPONT DR IVE  
SUITE 200  
IRVINE, CA 92612

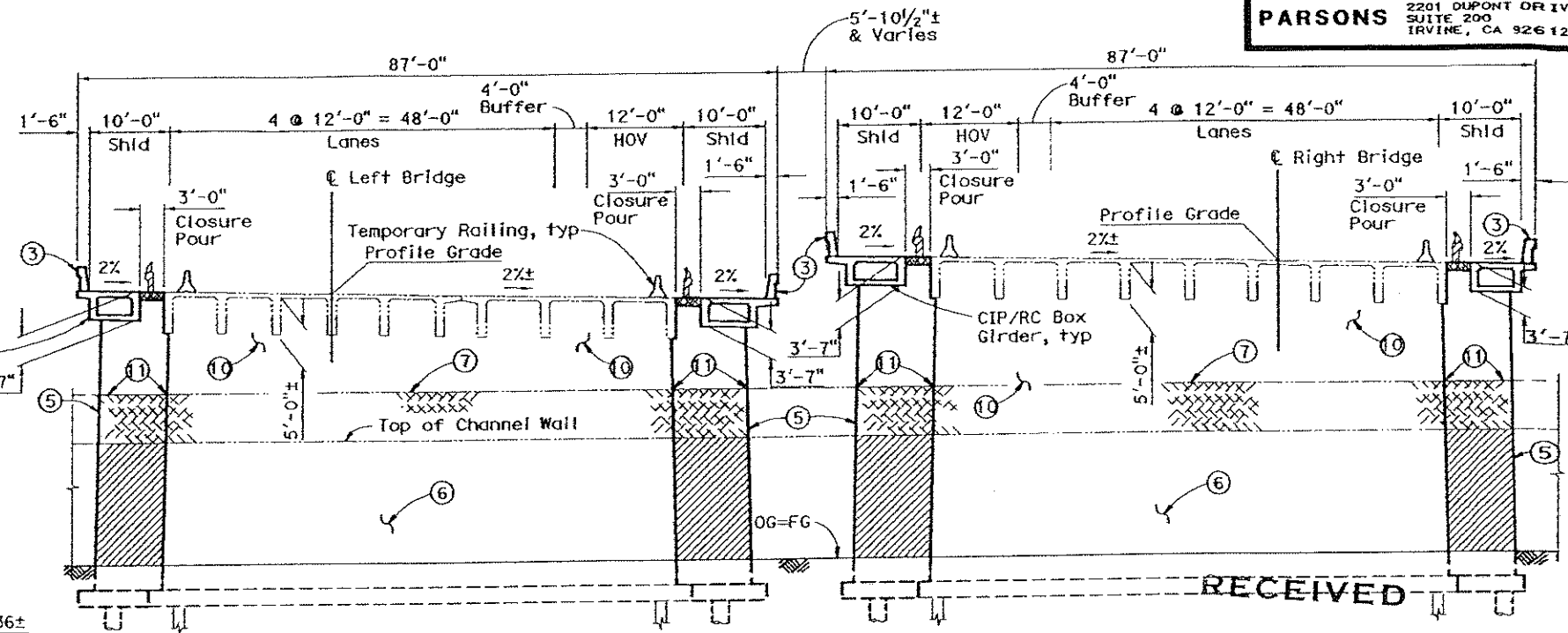


**ELEVATION**  
1" = 30'

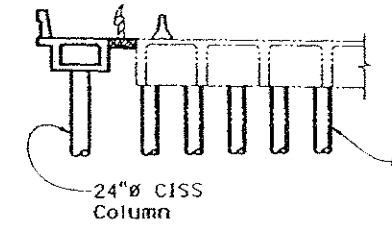


**PLAN**  
1" = 30'

Note:  
 Traffic will pass through construction site. Stage construction required.  
 Falsework is not restricted by vertical clearance.



NOTE: All piles not shown  
**TYPICAL SECTION - BENT 3**  
1" = 10'



NOTE: For information not shown, see "Typical Section - Bent 3"

**PART TYPICAL SECTION BENTS 2 & 4**  
1" = 10'

CURVE DATA ①	CURVE DATA ②
R = 5000'	R = 5000'
$\Delta = 17^{\circ}16'11"$	$\Delta = 16^{\circ}17'10"$
L = 759.29'	L = 715.44'
T = 1507.06'	T = 1421.23'

CURVE DATA ③
R = 3190.56'
$\Delta = 12^{\circ}56'50"$
L = 362.03'
T = 720.98'

Left/Right Bridge	
DATE OF ESTIMATE	= 8/1/08
BRIDGE REMOVAL	= N/A
STRUCTURE DEPTH	= 3'-7"
LENGTH	= 195'-10"/194'-9"
WIDTH	= 19'-0"
AREA	= 3721 SF/3700 SF
SEISMIC RETROFIT	= \$2,000,000
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= \$929
TOTAL COST	= \$6,900,000

NOTE: Cost for Left & Right Structures are approximately equal

**Notes:**

- ① Paint "Br No. 54-0454"
- ② Paint "Etiwanda-San Sevaine Flood Control Channel Bridge"
- ③ Concrete Barrier Type 736
- ④ Structure Approach, Type R(30S)
- ⑤ Pier wall, Widening
- ⑥ Channel wall, Exist
- ⑦ Chain Link Fence, Exist
- ⑧ Bent Column, 24"  $\phi$  CISS Pile
- ⑨ Retaining Wall, Exist
- ⑩ Pier Wall, Exist

- ① Chain Link Fence Remove & Replace (Portion)
- ② Retaining wall Removal (Portion)
- ③ Bent 3 Footing Retrofit
- ④ Reinforce Pier wall at Bent 3 Pier Wall (Seismic retrofit)
- ⑤ Reinforce Stem wall at Abutments 1 & 5 (Seismic retrofit)
- ⑥ Column Steel Casing at Bents 2 & 4 (Seismic retrofit)

**LEGEND:**

- $\rightarrow$  Direction of Travel
- Channel Wall Remove & Replace
- Retaining Wall Removal
- Direction of Flow
- Chain Link Fencing
- MBGR

DESIGNED BY	B. Deets	DATE	8/1/08
DRAWN BY	A. Segura	DATE	8/1/08
CHECKED BY	M. Mohseni	DATE	8/1/08
APPROVED	M. Mohseni	DATE	8/1/08

Mohsen Mohseni  
 PROJECT ENGINEER

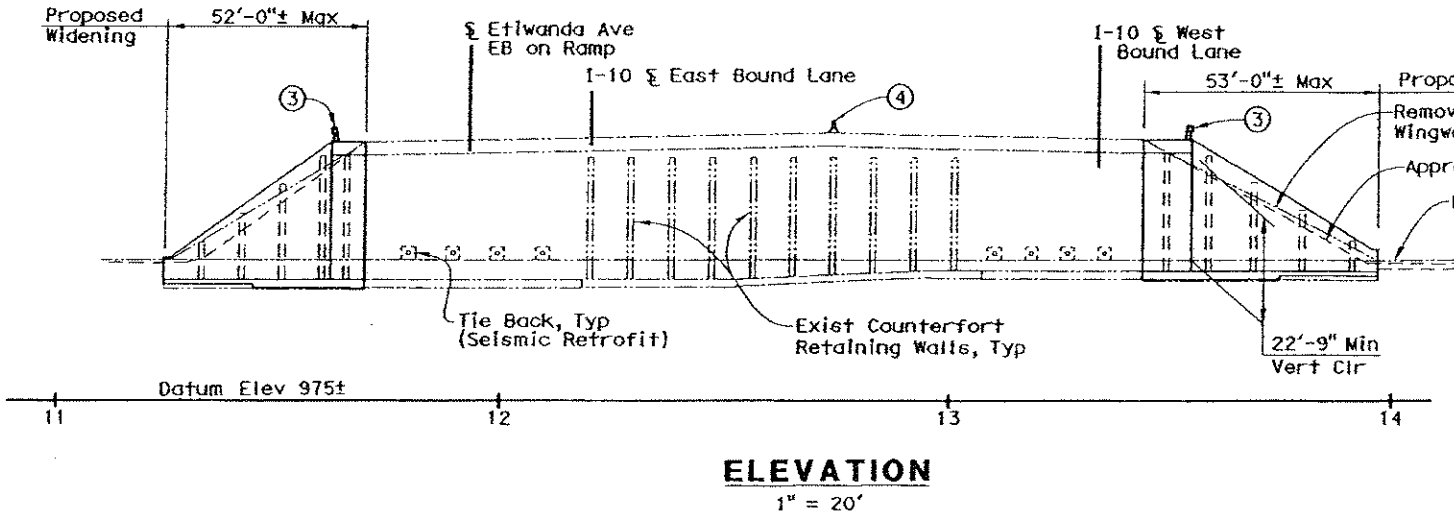
PLANNING STUDY	
ETIWANDA-SAN SEVAINE FLOOD CONTROL CHANNEL (WIDEN)	
BRIDGE NO. 54-0454 L/R	CU 08224
SCALE: AS SHOWN	EA OC2500

X *Liby Sup*  
 DESIGN OVERSIGHT  
 X 8/23/08  
 SIGN OFF DATE

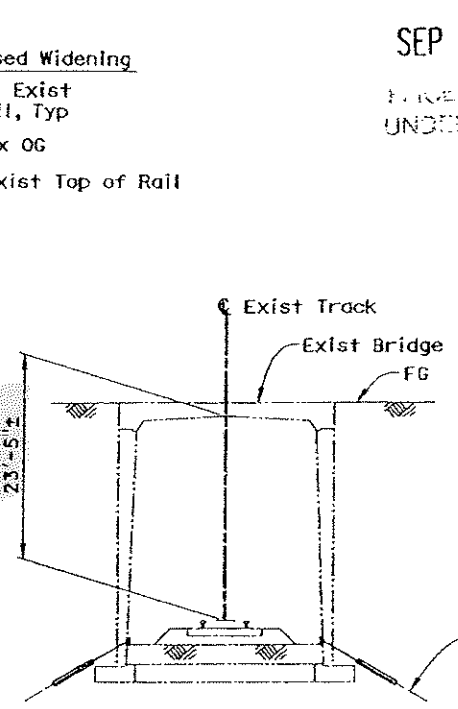
PREPARED FOR THE STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
8	SBd	10	8.2/33.43
SAN BERNARDINO ASSOCIATED GOVERNMENTS			1170 W Third St 2nd Floor San Bernardino CA 92410
PARSONS			2201 DUPONT DRIVE SUITE 200 IRVINE, CA 92612

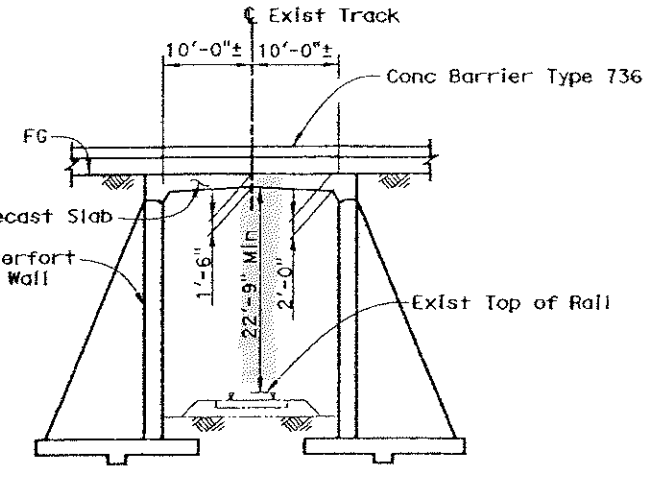
RECEIVED  
SEP 19 2008  
DIVISION OF SPECIAL UNDERPROJECTS



**ELEVATION**  
1" = 20'



**SECTION B-B**  
1" = 10'



**SECTION A-A**  
1" = 10'

- LEGEND:**
- Direction of Travel
  - ◆ Point of Minimum Vertical clearance
  - MBGR

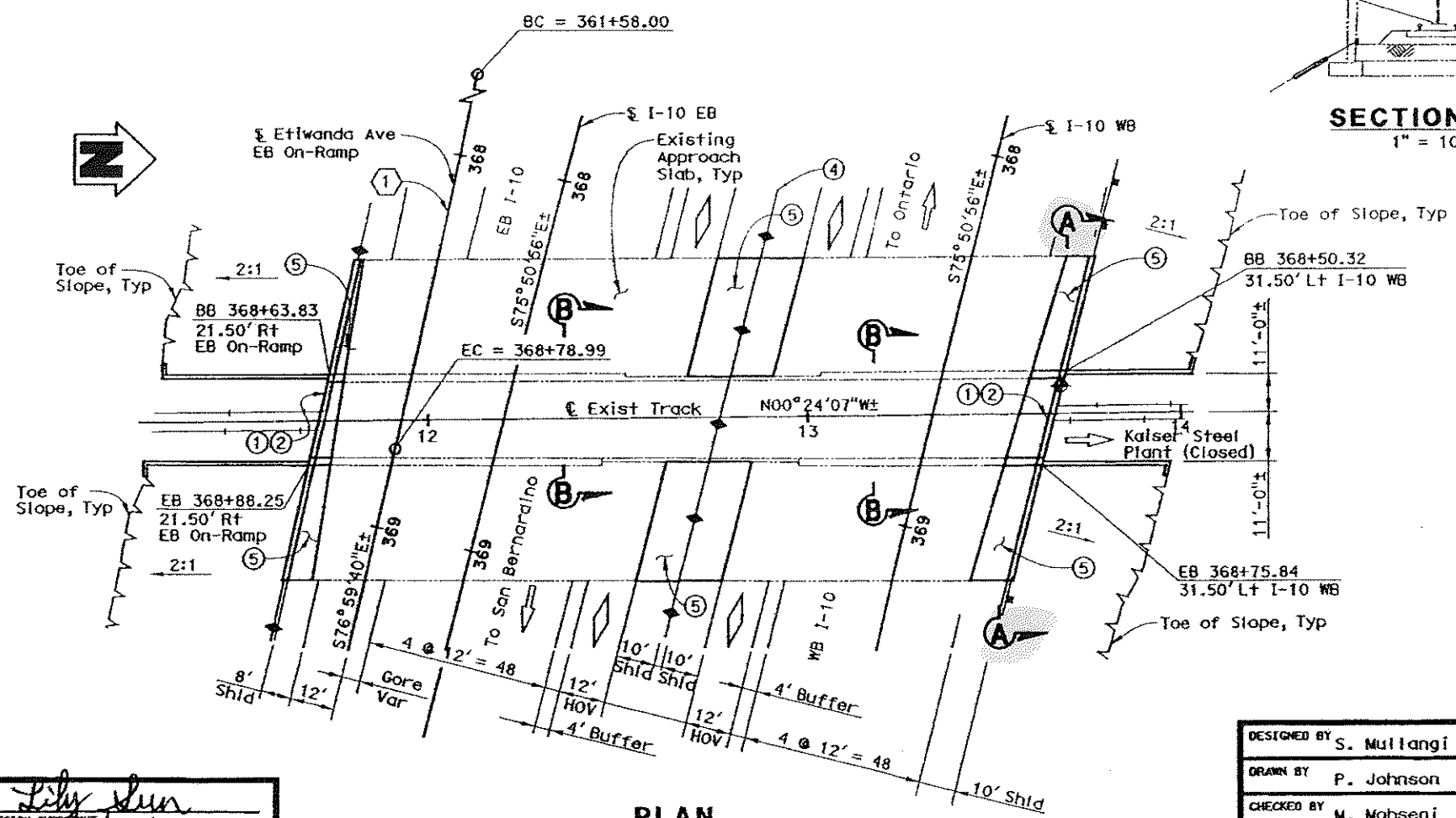
- NOTES:**
- ① Paint "Br No. 54-0416"
  - ② Paint "Kaiser Spur Overhead"
  - ③ Concrete Barrier Type 736
  - ④ Concrete Barrier Type 60
  - ⑤ Structure Approach, Type R(30S)

**Faisework**  
No Faisework allowed over railroad traffic.

DATE OF ESTIMATE	=	7/31/08
BRIDGE REMOVAL	=	347 CY
STRUCTURE DEPTH	=	1'-6" ~ 2'-0"
LENGTH	=	24'-0"
WIDTH	=	15'-6" ~ 12'-10"
AREA	=	342 SF
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY (WITHOUT TIE BACKS)	=	\$2,887
RETROFIT COST (INCLUDING TIE BACKS)	=	\$250,000
<b>TOTAL COST</b>	=	<b>\$1,300,000</b>

**CURVE DATA** ①

R	=	3190.56'
Δ	=	12°56'50"
L	=	720.98'
T	=	362.03'



**PLAN**  
1" = 20'

DESIGN OVERSIGHT  
SIGN OFF DATE: 9/23/08

DESIGNED BY	S. Mullangi	DATE	7/31/08
DRAWN BY	P. Johnson	DATE	7/31/08
CHECKED BY	M. Mohseni	DATE	7/31/08
APPROVED	M. Mohseni	DATE	7/31/08

<b>PLANNING STUDY</b>	
<b>KAISER SPUR OH (WIDEN)</b>	
BRIDGE NO. 54-0416	CU 1224
SCALE: As Noted	EA 0C2500

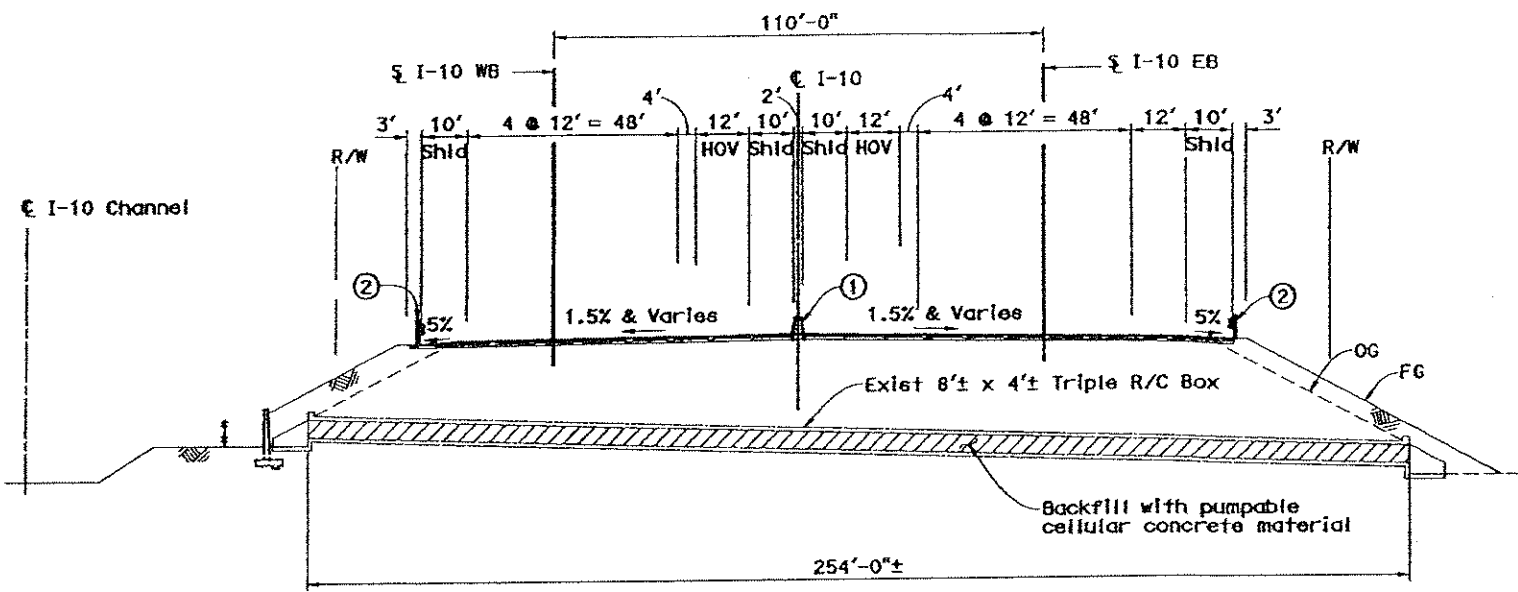
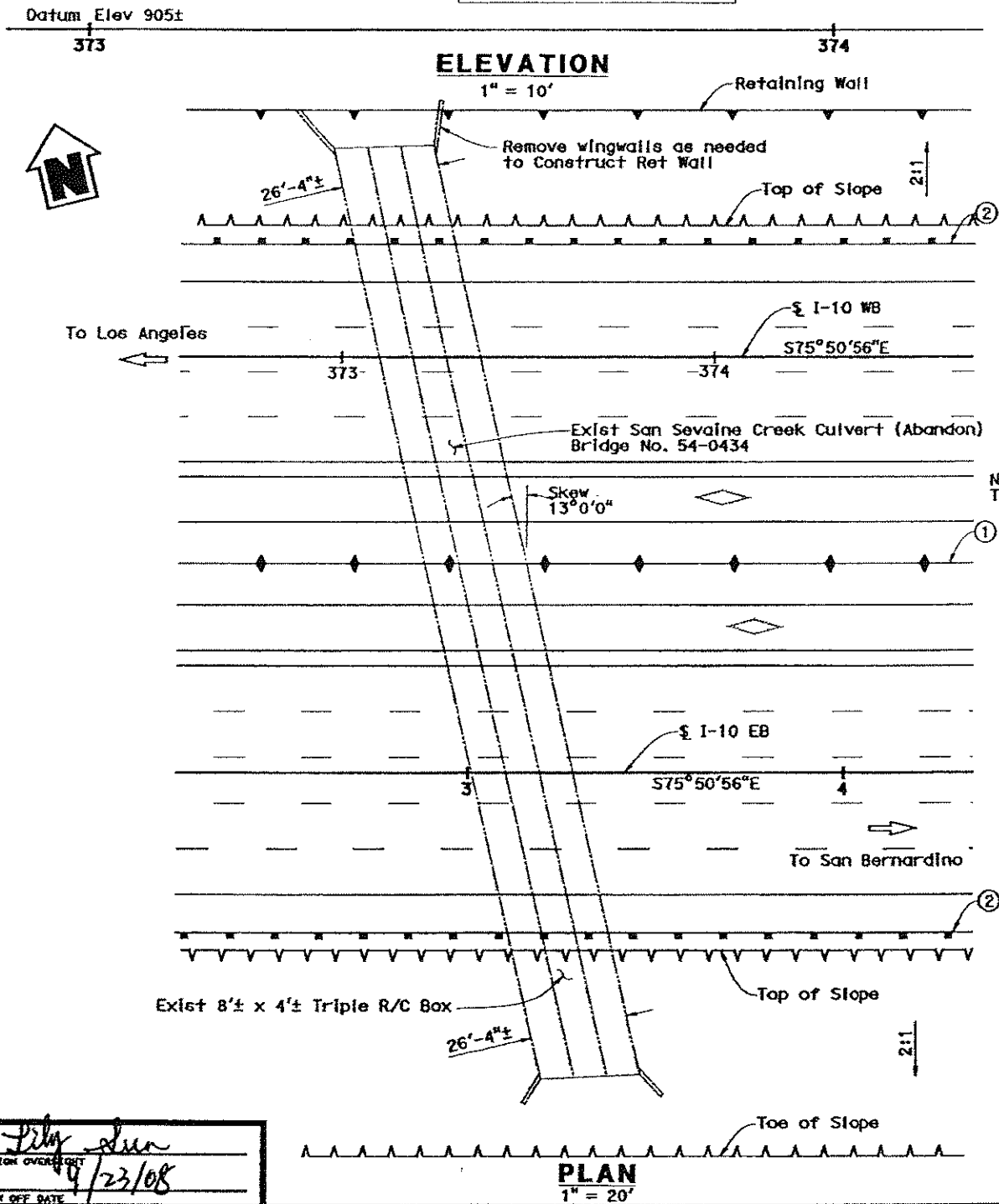
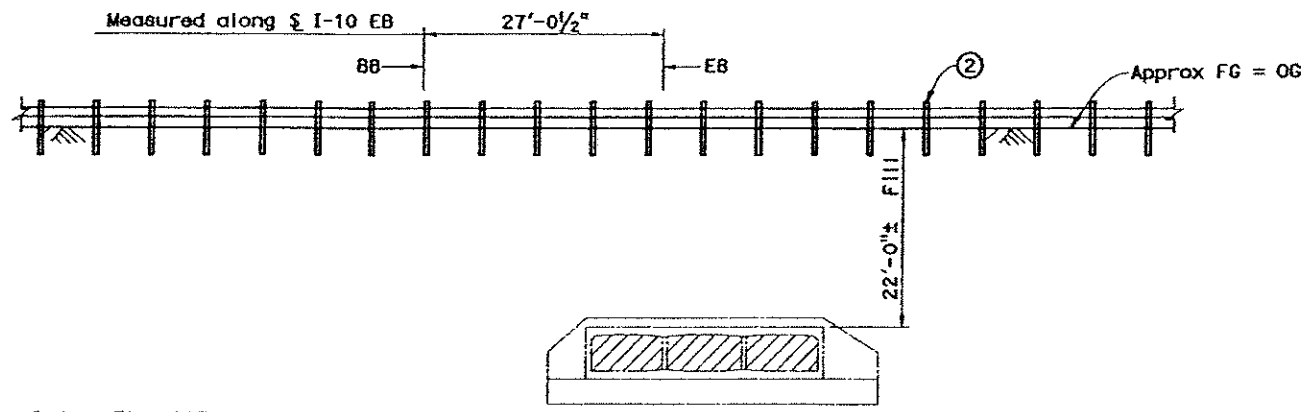
TIME PLOTTED => #TIME USERNAME => #USER DATE PLOTTED => #DATE



PREPARED FOR THE STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT
8	SBd	10	3.20/33.43

**PARSONS** 2201 DUPONT DRIVE  
SUITE 200  
IRVINE, CA 92612



Note: Traffic will pass through construction site.

DATE OF ESTIMATE	=	7/18/08
BRIDGE REMOVAL	=	\$27,500
STRUCTURE DEPTH	=	N/A
LENGTH	=	26'-4"
WIDTH	=	254'-0"
AREA	=	6,688 SF
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	\$45
TOTAL COST	=	\$300,000

- NOTES:**
- ① Concrete Barrier Type 60C
  - ② MBGR

- LEGEND:**
- ➔ Direction of Travel
  - ◇ HOV Lane

DESIGNED BY: *S. DULOR*  
DRAWN BY: *A. SEGURA*  
CHECKED BY: *M. MOHSENI*  
APPROVED: *M. MOHSENI*

DATE: 7/18/08

DATE: 7/18/08

DATE: 7/18/08

DATE: 7/18/08

DESIGN OVERSIGHT: *4/23/08*

SIGN OFF DATE:

DESIGNED BY	S. DULOR	DATE	7/18/08
DRAWN BY	A. SEGURA	DATE	7/18/08
CHECKED BY	M. MOHSENI	DATE	7/18/08
APPROVED	M. MOHSENI	DATE	7/18/08

PLANNING STUDY	
SAN SEVAINE CREEK (ABANDON)	
BRIDGE NO. 54-0434	CU
SCALE: AS SHOWN	EA OC2500

ADVANCE PLANNING STUDY SHEET (CONCRETE) (REV. 2/25/08)

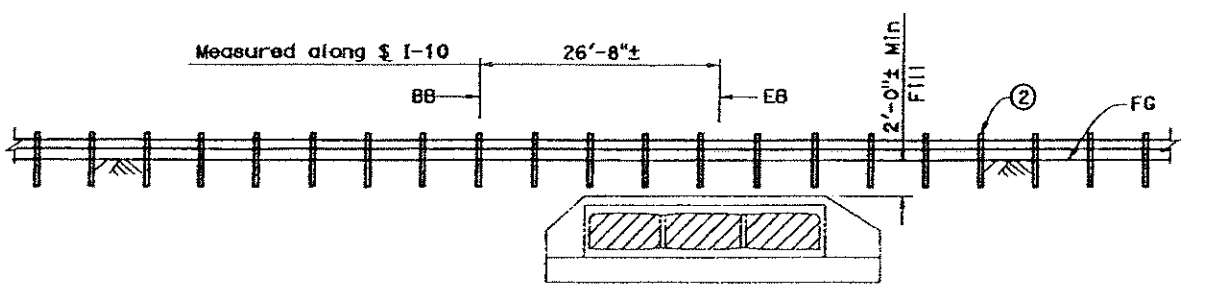
FILE => c:\pw\_working\_xm\p19\p0038016\dms17061\54-0434-a-gp01.dgn

**HOV ALTERNATIVE**

USERNAME => P0038016 DATE PLOTTED => 9/22/2008 TIME PLOTTED => 2:20:08 PM

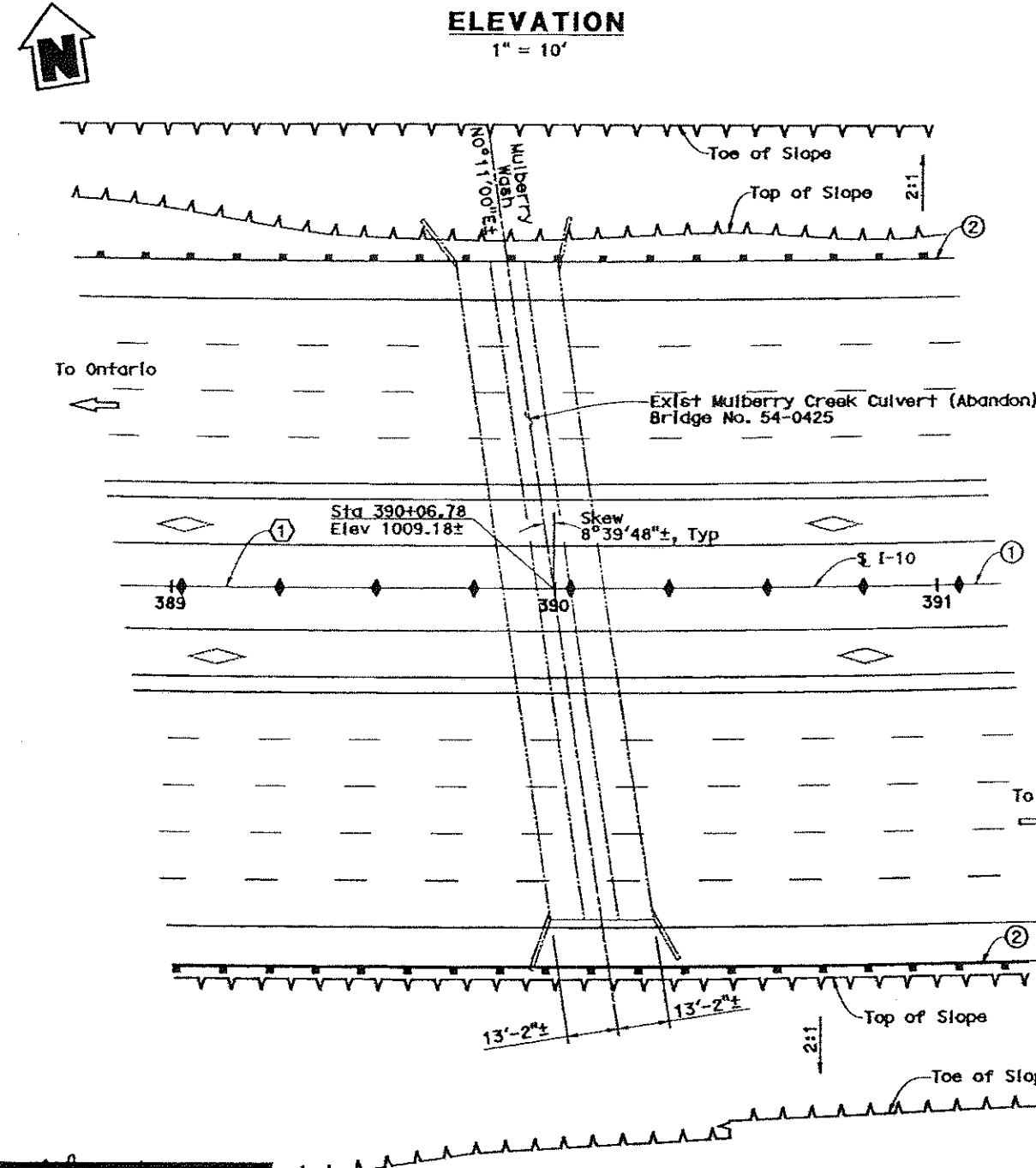
PREPARED FOR THE STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT
8	SBD	10	3.20/33.43

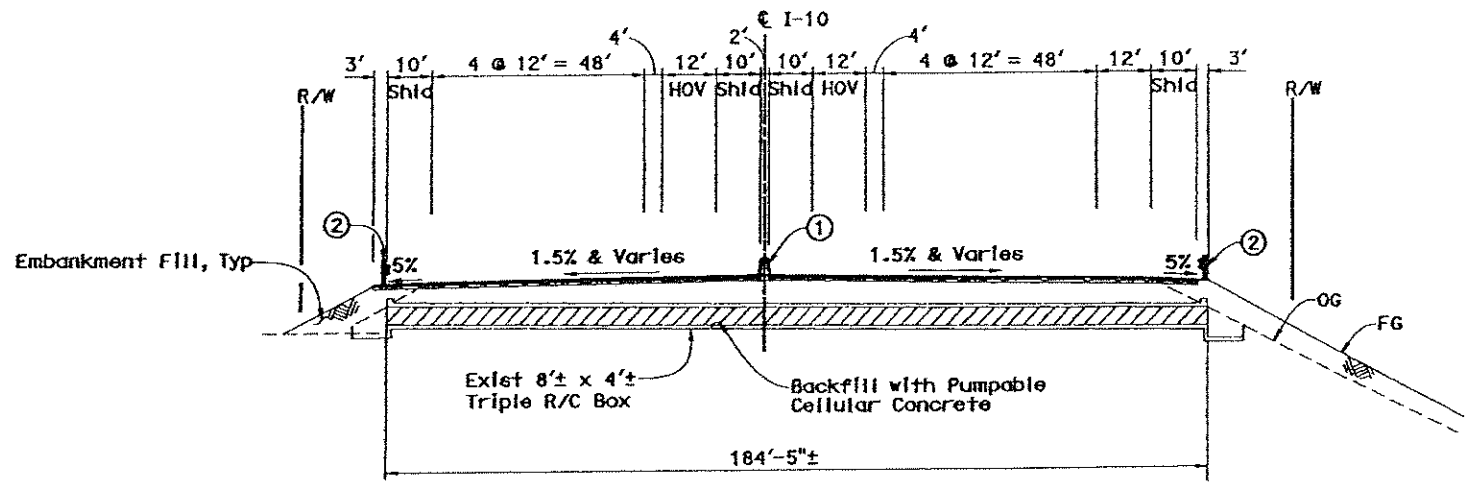


Datum Elev 1000±  
390

**ELEVATION**  
1" = 10'



**PLAN**  
1" = 20'



**TYPICAL SECTION**  
1" = 20'

DATE OF ESTIMATE	=	7/18/08
BRIDGE REMOVAL	=	0
STRUCTURE DEPTH	=	N/A
LENGTH	=	26'-4"
WIDTH	=	184'-5"±
AREA	=	4,855 SF
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	\$41
TOTAL COST	=	\$200,000

**NOTES:**

- ① Concrete Barrier Type 60C
- ② MBGR

**CURVE DATA**

- ① R = 7000.00'
- Δ = 16°05'00"
- T = 989.37'
- L = 1965.73'

**LEGEND:**

- ➔ Direction of Travel
- ▨ Cellular Concrete
- ◇ HOV Lane

DESIGNED BY	J. LE	DATE	7/18/08
DRAWN BY	A. SEGURA	DATE	7/18/08
CHECKED BY	M. MOHSENI	DATE	7/18/08
APPROVED	M. MOHSENI	DATE	7/18/08

Mohsen Mohseni  
PROJECT ENGINEER

PLANNING STUDY	
<b>MULBERRY CREEK (ABANDON)</b>	
BRIDGE NO. 54-0425	CU 08224
SCALE: AS SHOWN	EA 0C2500

X *Sally Sun*  
DESIGN OVERSEER  
9/23/08  
X  
SIGN OFF DATE

ADVANCE PLANNING STUDY SHEET (BRIDGE) (REV. 2/25/04)

FILE => c:\pw\_working\_xxx\pfg\p0038016\dms17062\54-0425-a-gp01.dgn

TIME PLOTTED => 2/16/08 PH USERNAME => p0038016 DATE PLOTTED => 9/22/2008

**HOV ALTERNATIVE**

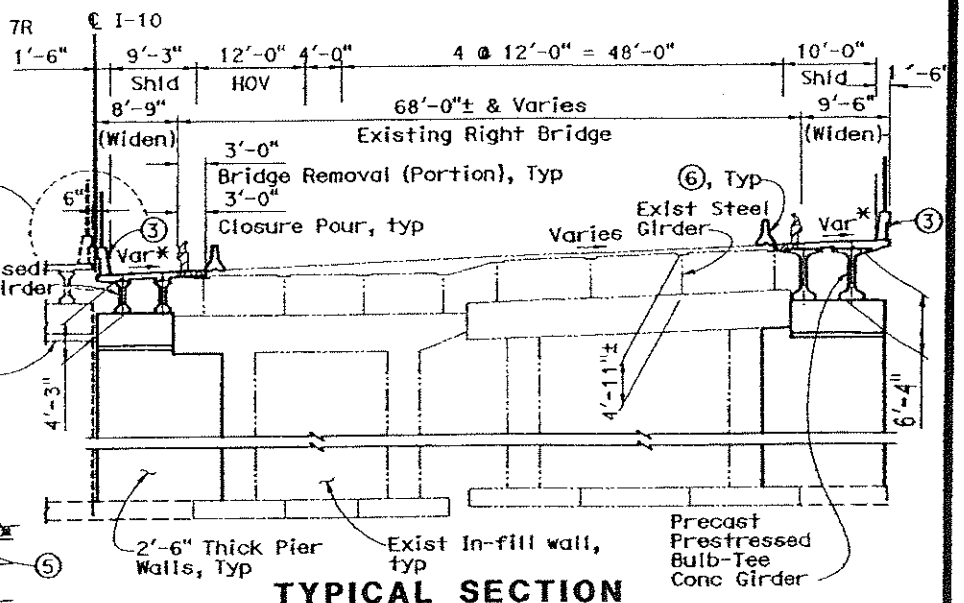
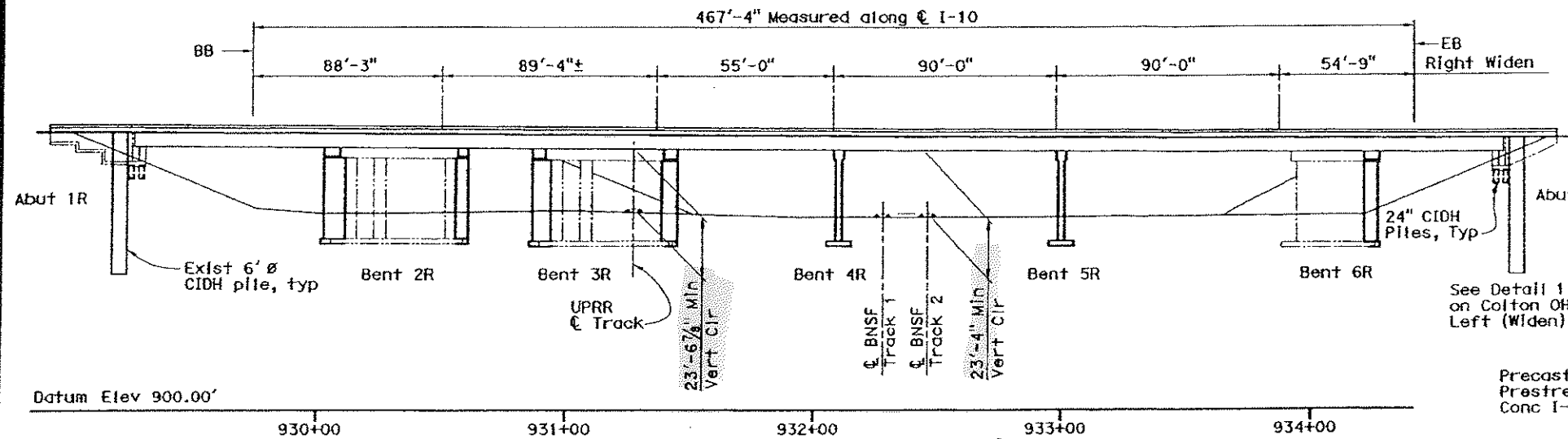
PREPARED FOR THE STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	SBd	10	8.20/33.43

SAN BERNARDINO ASSOCIATED GOVERNMENTS 1170 W Third St 2nd Floor San Bernardino CA 92410

PARSONS 2201 DUPONT DRIVE SUITE 200 IRVINE, CA 92612

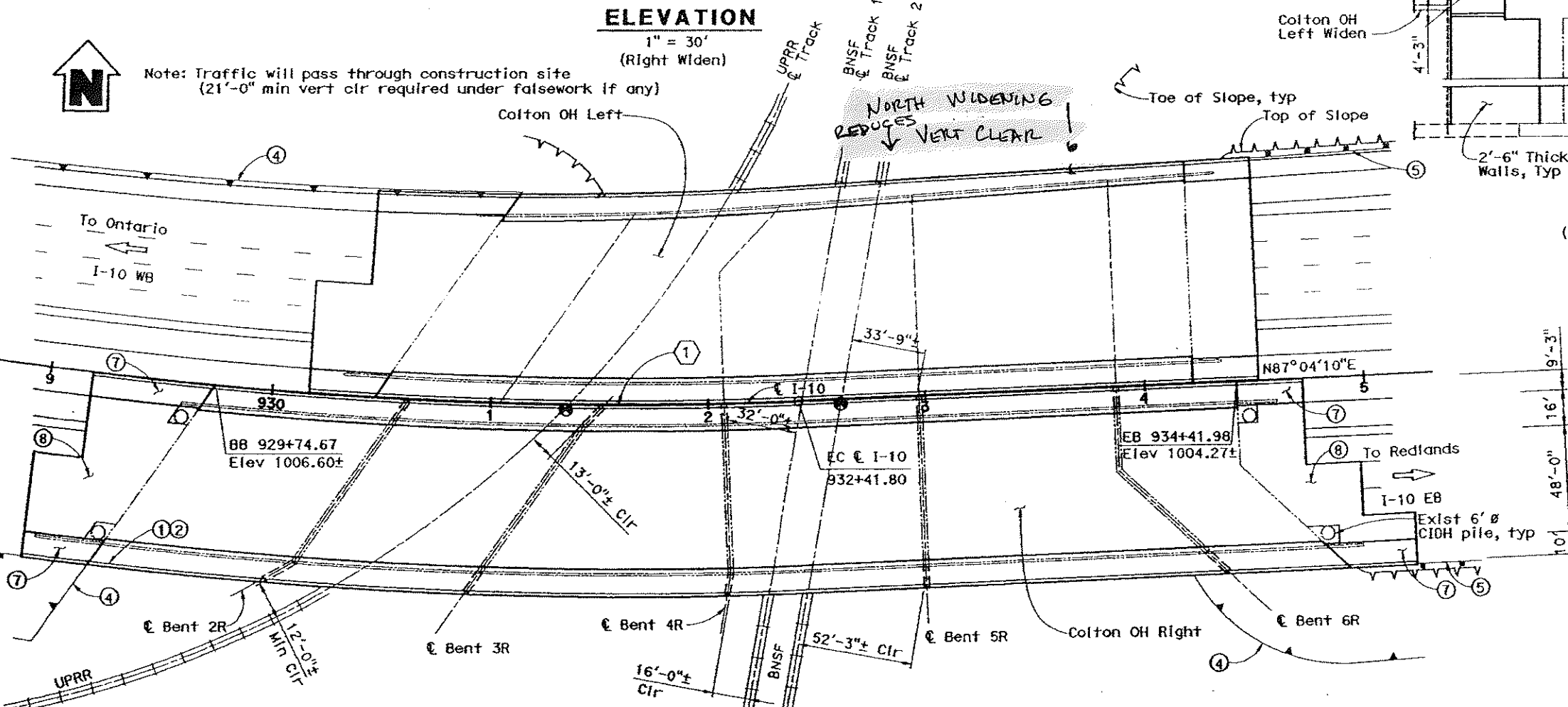
- NOTES:**
- Paint "Br No. 54-0464R"
  - Paint "Colton OH Bridge"
  - Concrete Barrier Type 736 with Chain Link Railing Type 7
  - Retaining Wall, See "Road Plans"
  - MBGR, See "Road Plans"
  - Temporary Railing Type K
  - Structure Approach Type N(30S)
  - Structure Approach Type R(30S)
  - \* Match existing cross slope



**TYPICAL SECTION**  
1" = 10'  
(Colton OH Right (Widen) shown)

**RIGHT STRUCTURE**

DATE OF ESTIMATE	= 8/22/08
BRIDGE REMOVAL	= 166 SF
STRUCTURE DEPTH	= 4'-3"/6'-4"
LENGTH	= 480'-2"
WIDTH	= 18'-3"
AREA	= 8764 SF
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= \$319/SF
TOTAL COST	= \$3,000,000



**CURVE DATA** ①

R = 2000'
Δ = 12°16'26"
T = 215.04'
L = 428.44'

**PLAN**  
1" = 30'

Note: Horizontal clearances are measured perpendicular from centerline of track to pier protection wall.

DESIGNED BY: *Lily Sun*  
DATE: 8/22/08  
DRAWN BY: A. SEGURA  
DATE: 8/22/08  
CHECKED BY: M. MOHSENI  
DATE: X  
APPROVED: M. MOHSENI  
DATE: X

DESIGNED BY	U. SANDIRA	DATE	8/22/08
DRAWN BY	A. SEGURA	DATE	8/22/08
CHECKED BY	M. MOHSENI	DATE	X
APPROVED	M. MOHSENI	DATE	X

Mohsen Mohseni  
PROJECT ENGINEER

**PLANNING STUDY**

**COLTON OH RIGHT (WIDEN)**

BRIDGE NO. 54-0464R	CU 08224
SCALE: As Noted	EA OC2500

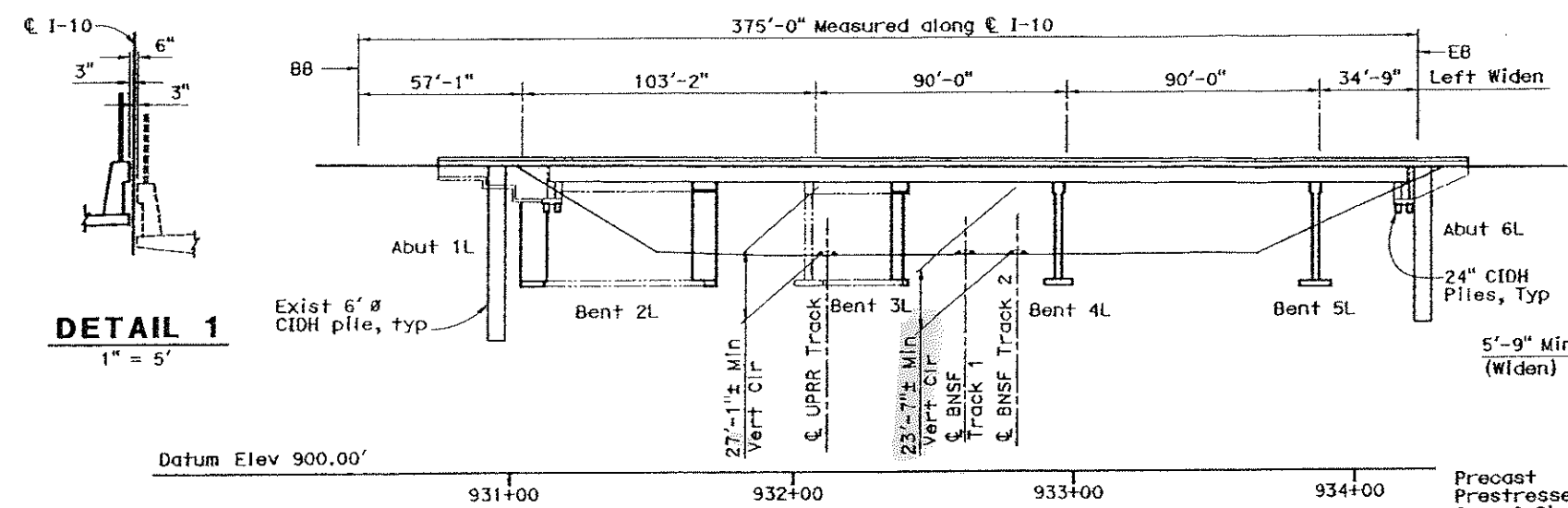
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	Sbd	10	8.20/33.43

**SAN BERNARDINO ASSOCIATED GOVERNMENTS** 1170 W Third St 2nd Floor San Bernardino CA 92410

**PARSONS** 2201 DUPONT DRIVE SUITE 200 IRVINE, CA 92612

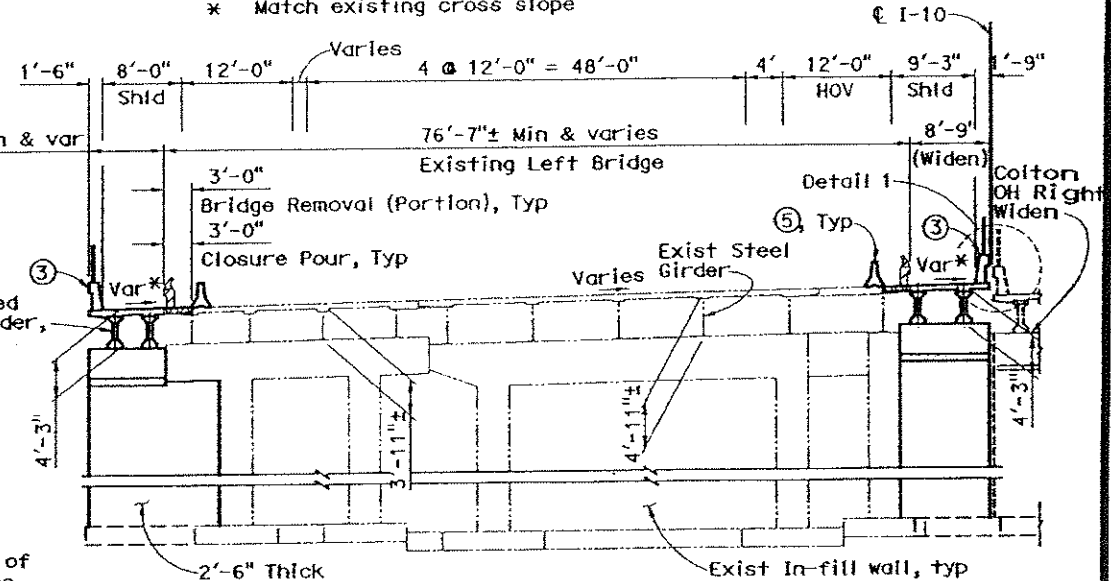
**NOTES:**

- ① Paint "Br No. 54-0464L"
- ② Paint "Colton OH Bridge"
- ③ Concrete Barrier Type 736 with Chain Link Railing Type 7
- ④ MBGR, See "Road Plans"
- ⑤ Temporary Railing Type K
- ⑥ Retaining Wall, See "Road Plans"
- ⑦ Structure Approach Type N(30S)
- ⑧ Structure Approach Type R(30S)
- \* Match existing cross slope



**DETAIL 1**  
1" = 5'

**MIRRORED ELEVATION**  
1" = 30'  
(Left Widen)

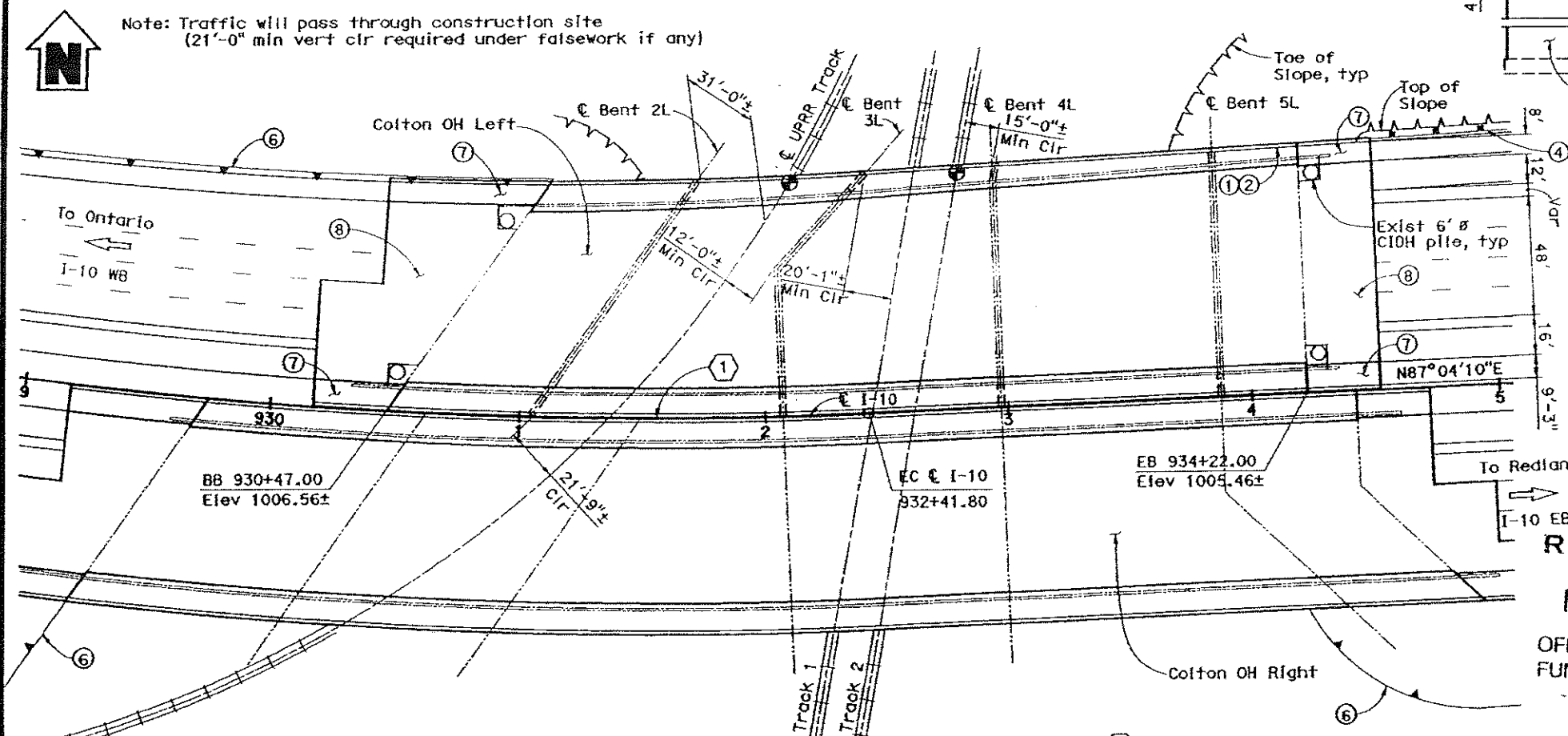


**TYPICAL SECTION**  
1" = 10'  
(Colton OH Left (Widen) shown)  
LEFT STRUCTURE

DATE OF ESTIMATE	= 8/22/08
BRIDGE REMOVAL	= 74 SF
STRUCTURE DEPTH	= 4'-3"
LENGTH	= 362'-2"
WIDTH	= 14'-6" Min & Var
AREA	= 5795 SF
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= \$355/SF
TOTAL COST	= \$4,700,000

**LEGEND:**

- Direction of Travel
- MBGR
- Indicates Existing Structure
- Indicates New Structure
- Indicates Removal Structure
- Min Vert Cir
- UPRR Union Pacific Railroad
- BNSF Burlington Northern Santa Fe Railroad



Note: Traffic will pass through construction site (21'-0" min vert clr required under falsework if any)

Note: Horizontal clearances are measured perpendicular from centerline of track to pier protection wall.

**CURVE DATA**

- R = 2000'
- Δ = 12°16'26"
- T = 215.04'
- L = 428.44'

**PLAN**  
1" = 30'

**RECEIVED**  
NOV 05 2008  
OFFICE OF SPECIAL FUNDED PROJECTS

DESIGNED BY	U. SANDIRA	DATE	8/22/08
DRAWN BY	A. SEGURA	DATE	8/22/08
CHECKED BY	M. MOHSENI	DATE	X
APPROVED	M. MOHSENI	DATE	X

Mohsen Mohseni  
PROJECT ENGINEER

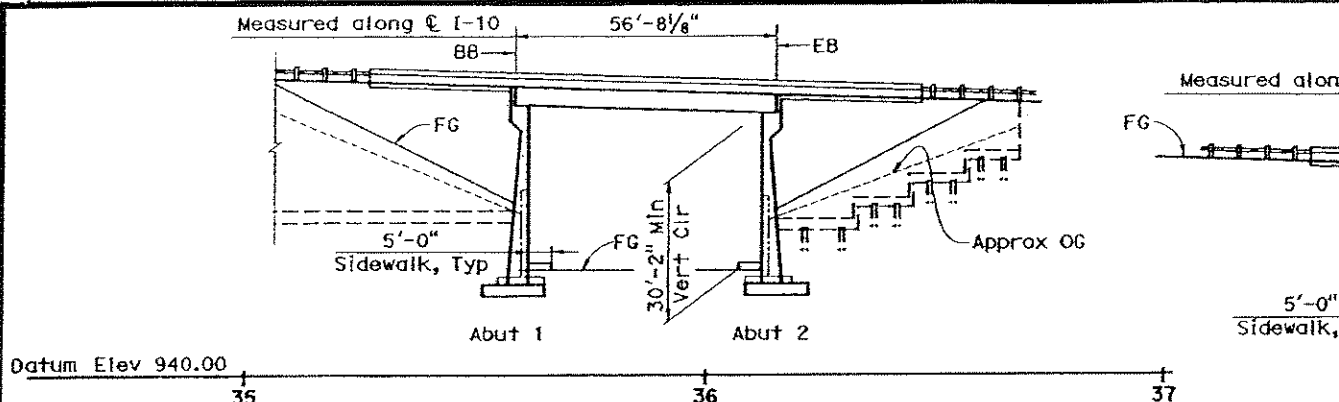
PLANNING STUDY	
<b>COLTON OH LEFT (WIDEN)</b>	
BRIDGE NO. 54-0464L	CU 08224
SCALE: As Noted	EA 0C2500

X *Lily Sun*  
DESIGN OVERSIGHT  
X 11/10/08  
SIGN OFF DATE

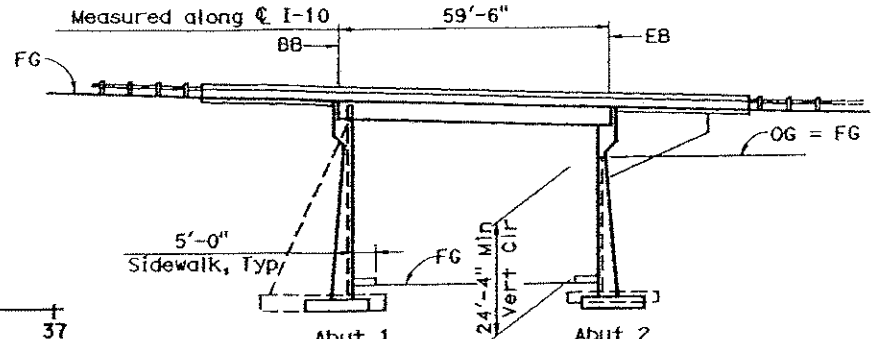
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	SBd	10	3.20/33.43

SAN BERNARDINO ASSOCIATED GOVERNMENTS 1170 W Third St 2nd Floor San Bernar... Ino CA 92410

PARSONS 2201 DUPONT DRIVE SUITE 200 IRVINE, CA 92612

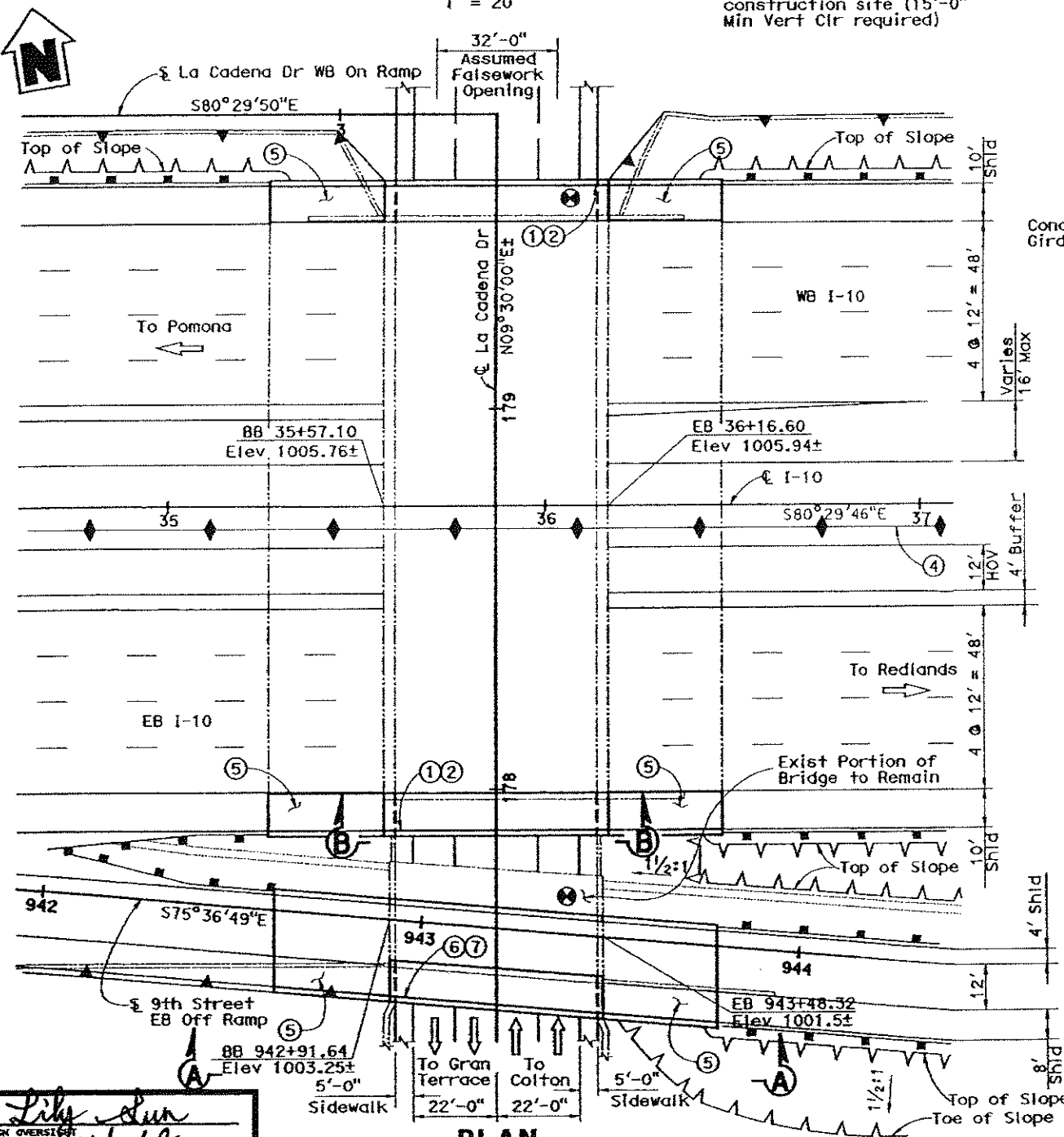


**ELEVATION A-A**  
1" = 20'

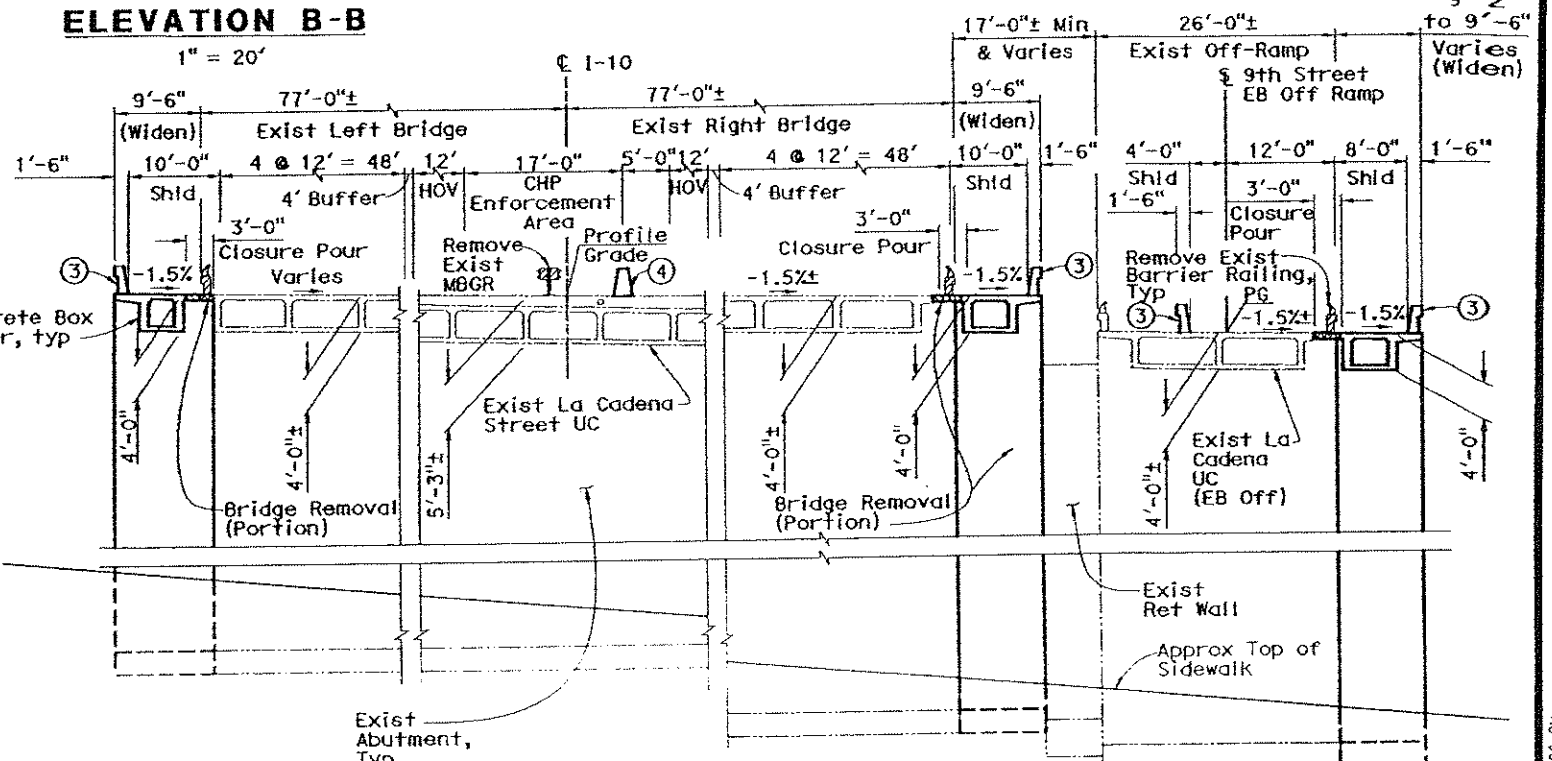


**ELEVATION B-B**  
1" = 20'

Note:  
Traffic will pass through construction site (15'-0" Min Vert Cir required)



**PLAN**  
1" = 20'



**TYPICAL SECTION**  
1" = 10'

**LEGEND:**

- Direction of Travel
- MBGR, See "Road Plans"
- Min Vert Cir
- Retaining Wall, See "Road Plans"
- Closure Pour
- Bridge Removal (Portion)

**NOTES:**

- ① Paint "Br No. 54-0462"
- ② Paint "La Cadena Undercrossing"
- ③ Concrete Barrier Type 736
- ④ Concrete Barrier Type 60
- ⑤ Structure Approach
- ⑥ Paint "Br No. 54-0462S"
- ⑦ Paint "La Cadena Undercrossing (EB Off)"

DATE OF ESTIMATE	=	8/22/08
BRIDGE REMOVAL	=	\$6,475
STRUCTURE DEPTH	=	4'-0"
LENGTH	=	59'-6"
WIDTH	=	28'-2" to 28'-6"
AREA	=	1696 SF
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	\$780
PRELIMINARY SEISMIC RETROFIT	=	\$100,000*
TOTAL COST	=	\$1,500,000**

\* Key to protect pin at the abutment footing & catcher block at the abutment seat.  
\*\* Retaining wall cost is not included.

DESIGNED BY	S. Mullangi	DATE	8/22/08
DRAWN BY	A. Segura	DATE	8/22/08
CHECKED BY	M. Mohseni	DATE	8/22/08
APPROVED	M. Mohseni	DATE	8/22/08

<b>PLANNING STUDY</b>	
<b>LA CADENA DRIVE UC (WIDEN)</b>	
BRIDGE NO. 54-0462/0462S	CU 08224
SCALE: AS NOTED	EA 0C2500

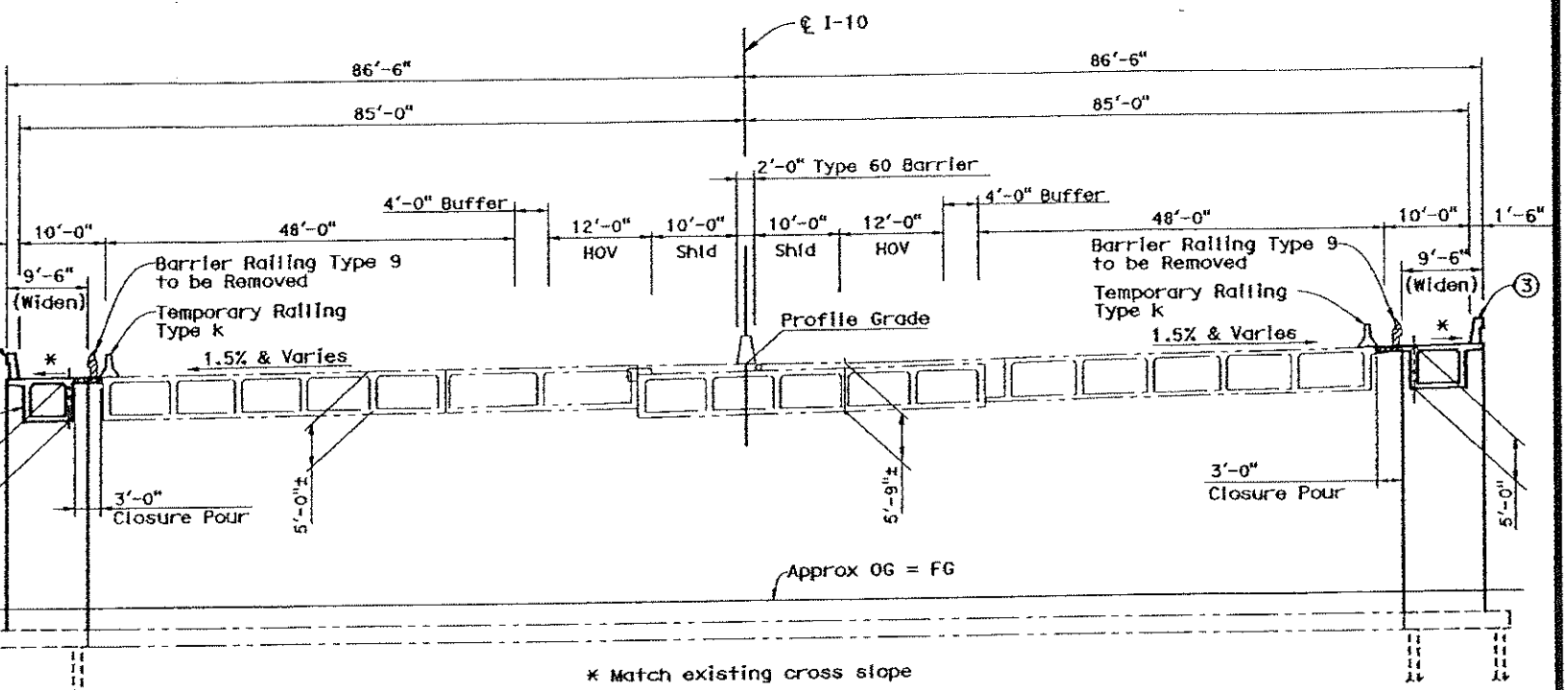
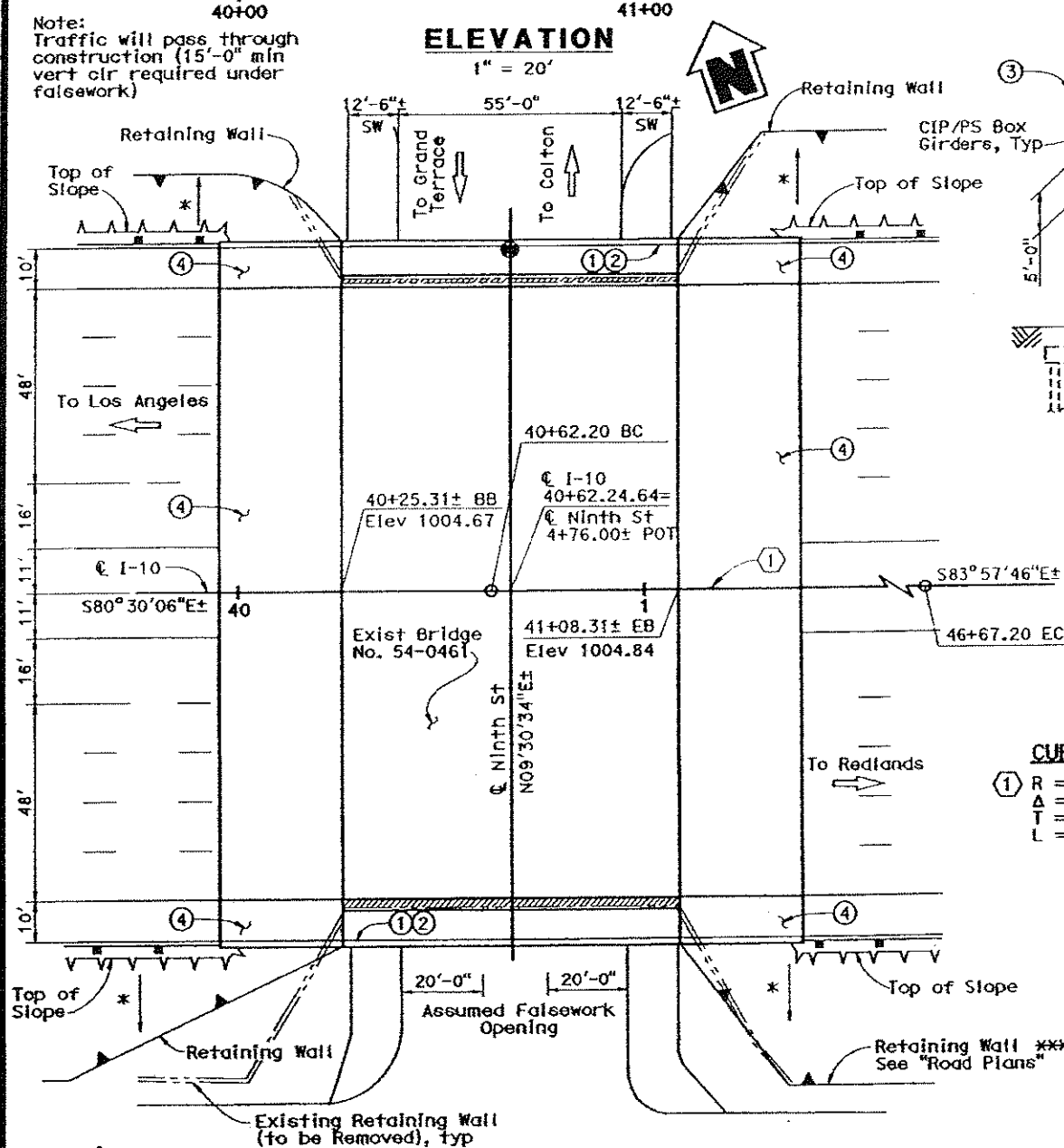
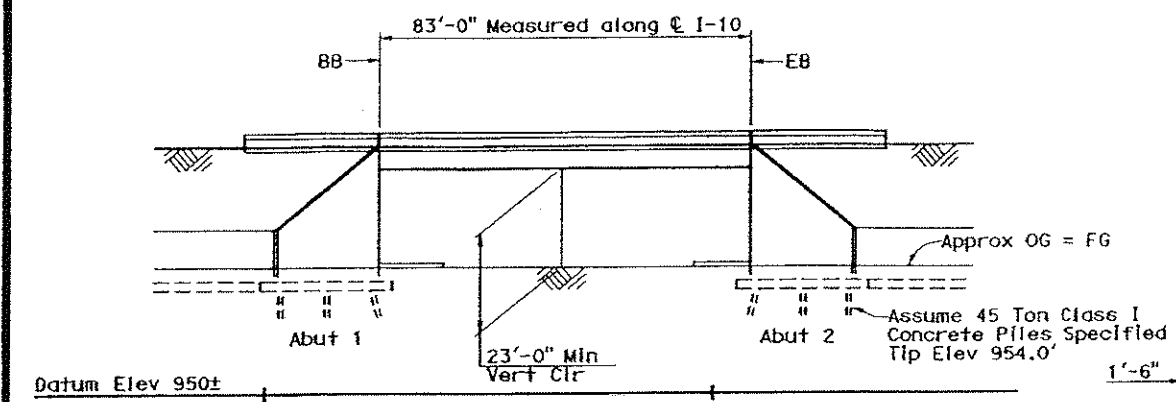
DESIGN OVERSIGHT  
*Lily Sun*  
11/10/08

PREPARED FOR THE STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT
8	Sbd	10	8.20/33.43

**SAN BERNARDINO ASSOCIATED GOVERNMENTS**  
 1170 W Third St  
 2nd Floor  
 San Bernardino  
 CA 92410

**PARSONS**  
 2201 DUPONT DRIVE  
 SUITE 200  
 IRVINE, CA 92612



Note:  
All Piles Not Shown

**TYPICAL SECTION**  
1" = 10'

North Bridge Widen

DATE OF ESTIMATE	=	9/11/08
BRIDGE REMOVAL	=	83 SF
STRUCTURE DEPTH	=	5'-0"
LENGTH	=	83'-0"
WIDTH	=	9'-6"
AREA	=	788'-6"
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	\$507
TOTAL COST **	=	\$400,000

South Bridge Widen

DATE OF ESTIMATE	=	9/11/08
BRIDGE REMOVAL	=	249 SF
STRUCTURE DEPTH	=	5'-0"
LENGTH	=	83'-0"
WIDTH	=	9'-6"
AREA	=	788'-6"
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	\$507
TOTAL COST **	=	\$400,000

**CURVE DATA**

- ① R = 10000.00'
- Δ = 3°27'59"
- T = 302.59'
- L = 605.00'

\*\* \$25,000 Seismic Retrofit cost has been included for both bridges.

**Notes:**

- ① Paint "Br. No. 54-0461"
- ② Paint "Ninth Street UC"
- ③ Concrete Barrier Type 736
- ④ Structure Approach

\*\*\* Retaining wall cost is not included in Cost Estimate.

**LEGEND:**

- ➔ Direction of Travel
- ▨ Bridge Removal (Portion)
- MBGR
- Indicates Exist Structure
- ⊙ Indicates Minimum Vertical Clearance

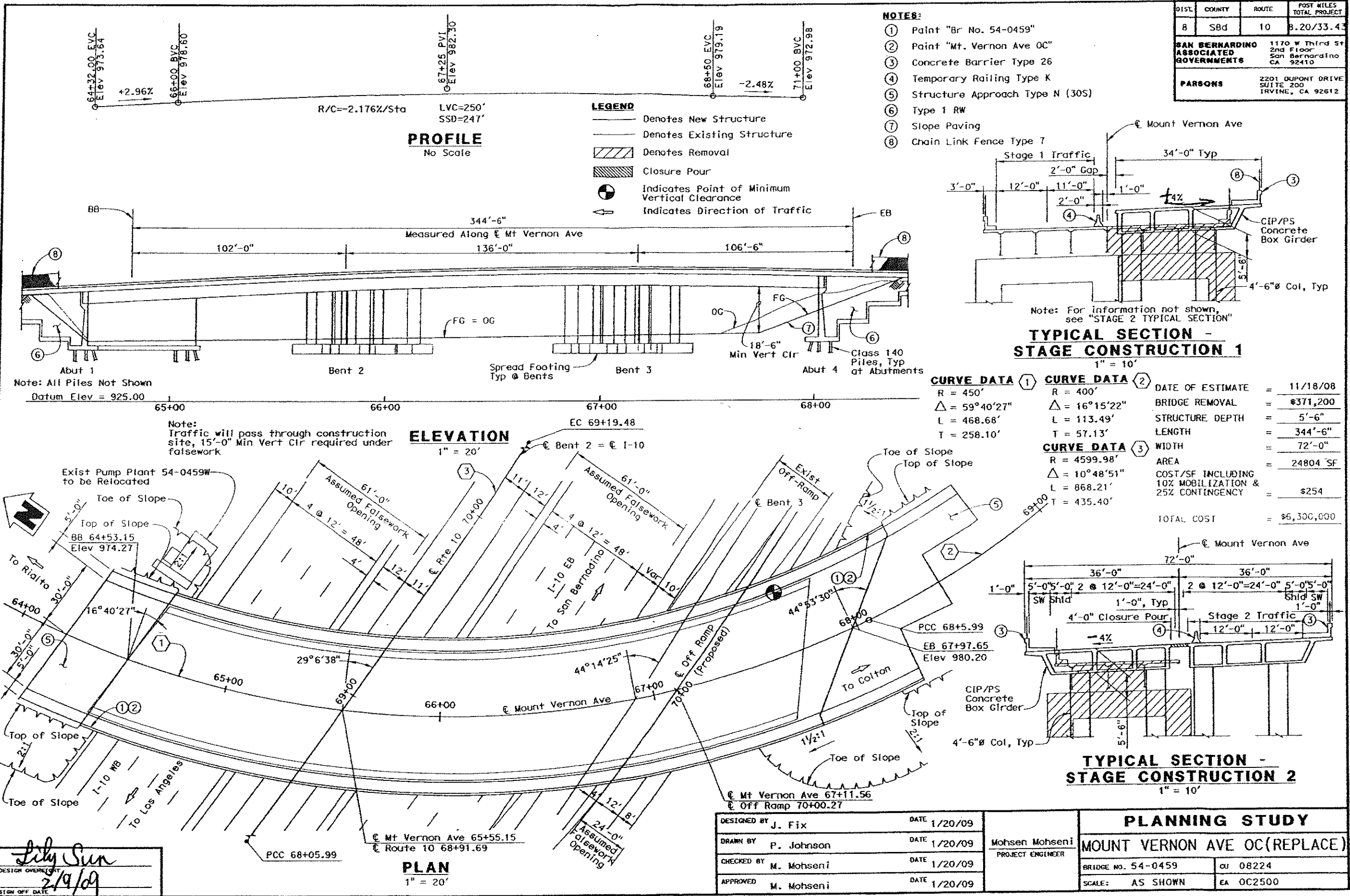
**PLAN**  
1" = 20'

DESIGNED BY: J. Le DATE: 9/11/08  
 DRAWN BY: O. Sandoval/A. Segura DATE: 9/11/08  
 CHECKED BY: U. Sandira DATE: 9/11/08  
 APPROVED: M. Mohseni DATE: 9/11/08

PLANNING STUDY	
NINTH STREET UC (WIDEN)	
BRIDGE NO. 54-461	CU 08224
SCALE: As Noted	EA 0C2500

TIME PLOTTED => 4:05:24 PM USERNAME => p0035324 DATE PLOTTED => 10/26/2008

PREPARED FOR THE STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION



DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT
8	Sbd	10	8.20/33.43

<b>SAN BERNARDINO ASSOCIATED GOVERNMENTS</b>	1170 W Third St 2nd Floor San Bernardino CA 92410
<b>PARSONS</b>	2201 DUPONT DRIVE SUITE 200 IRVINE, CA 92612

- NOTES:**
- Paint "Br No. 54-0459"
  - Paint "Mt. Vernon Ave OC"
  - Concrete Barrier Type 26
  - Temporary Railing Type K
  - Structure Approach Type N (30S)
  - Type 1 RW
  - Slope Paving
  - Chain Link Fence Type 7

- LEGEND**
- Denotes New Structure
  - Denotes Existing Structure
  - Denotes Removal
  - Closure Pour
  - Indicates Point of Minimum Vertical Clearance
  - Indicates Direction of Traffic

CURVE DATA ①		CURVE DATA ②		CURVE DATA ③	
R = 450'	$\Delta = 59^{\circ}40'27''$	R = 400'	$\Delta = 16^{\circ}15'22''$	R = 4599.98'	$\Delta = 10^{\circ}48'51''$
L = 468.68'	T = 258.10'	L = 113.49'	T = 57.13'	L = 868.21'	T = 435.40'

DATE OF ESTIMATE	= 11/18/08
BRIDGE REMOVAL	= \$371,200
STRUCTURE DEPTH	= 5'-6"
LENGTH	= 344'-6"
WIDTH	= 72'-0"
AREA	= 24804 SF
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= \$254
<b>TOTAL COST</b>	<b>= \$6,300,000</b>

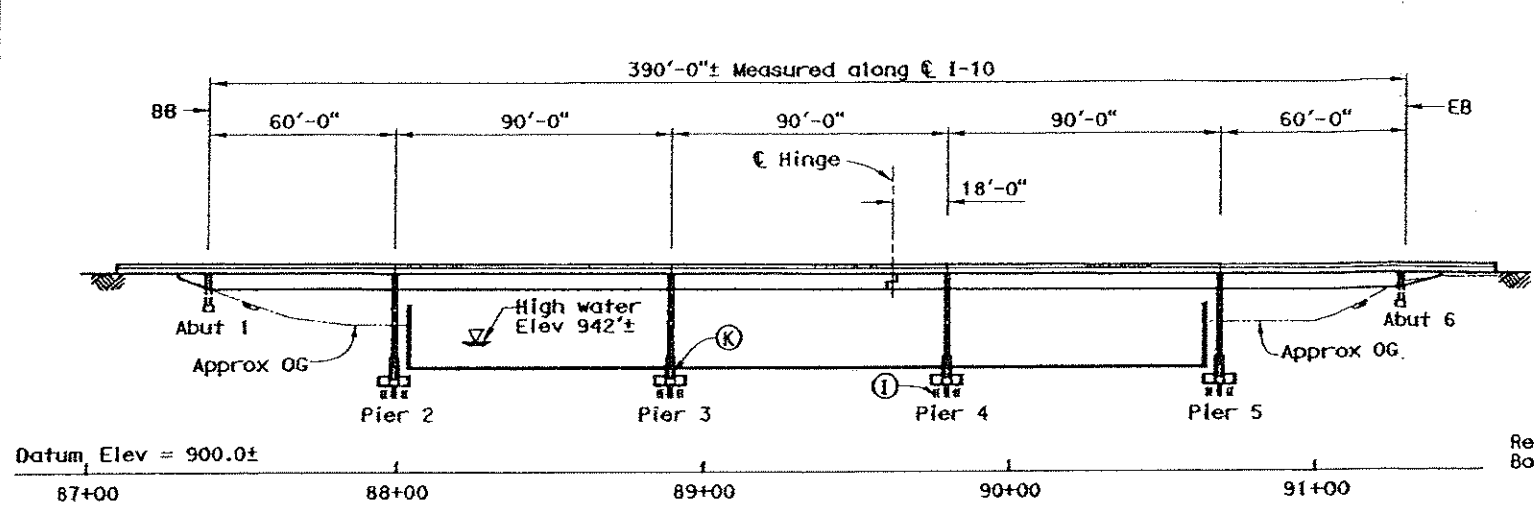
DESIGNED BY: *Lily Sun*  
 DATE: 2/19/09  
 SIGN OFF DATE: 2/19/09

DESIGNED BY	J. Fix	DATE	1/20/09
DRAWN BY	P. Johnson	DATE	1/20/09
CHECKED BY	M. Mohseni	DATE	1/20/09
APPROVED	M. Mohseni	DATE	1/20/09

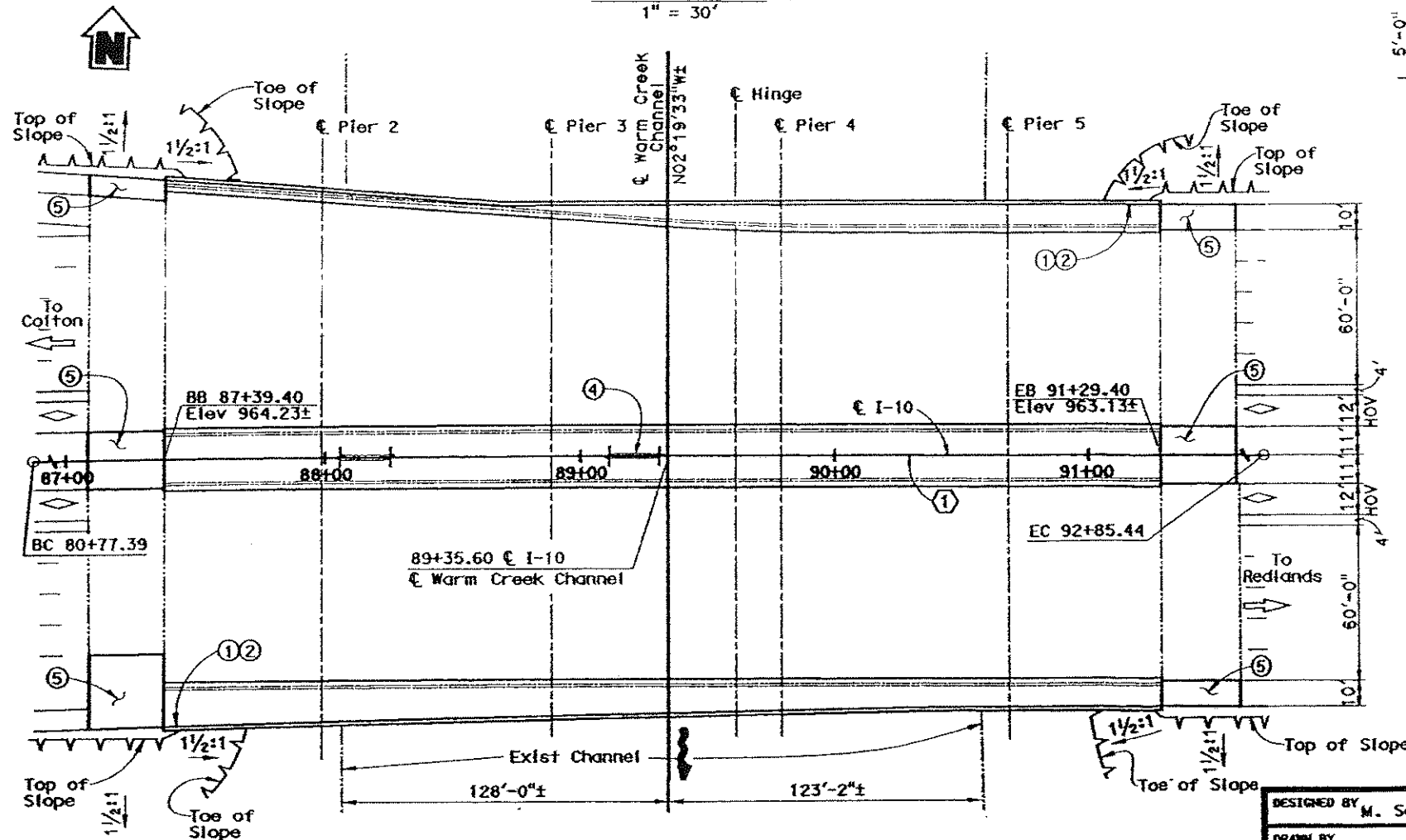
PLANNING STUDY	
<b>MOUNT VERNON AVE OC(REPLACE)</b>	
BRIDGE NO. 54-0459	CU 08224
SCALE: AS SHOWN	EA OC2500

HOV ALTERNATIVE

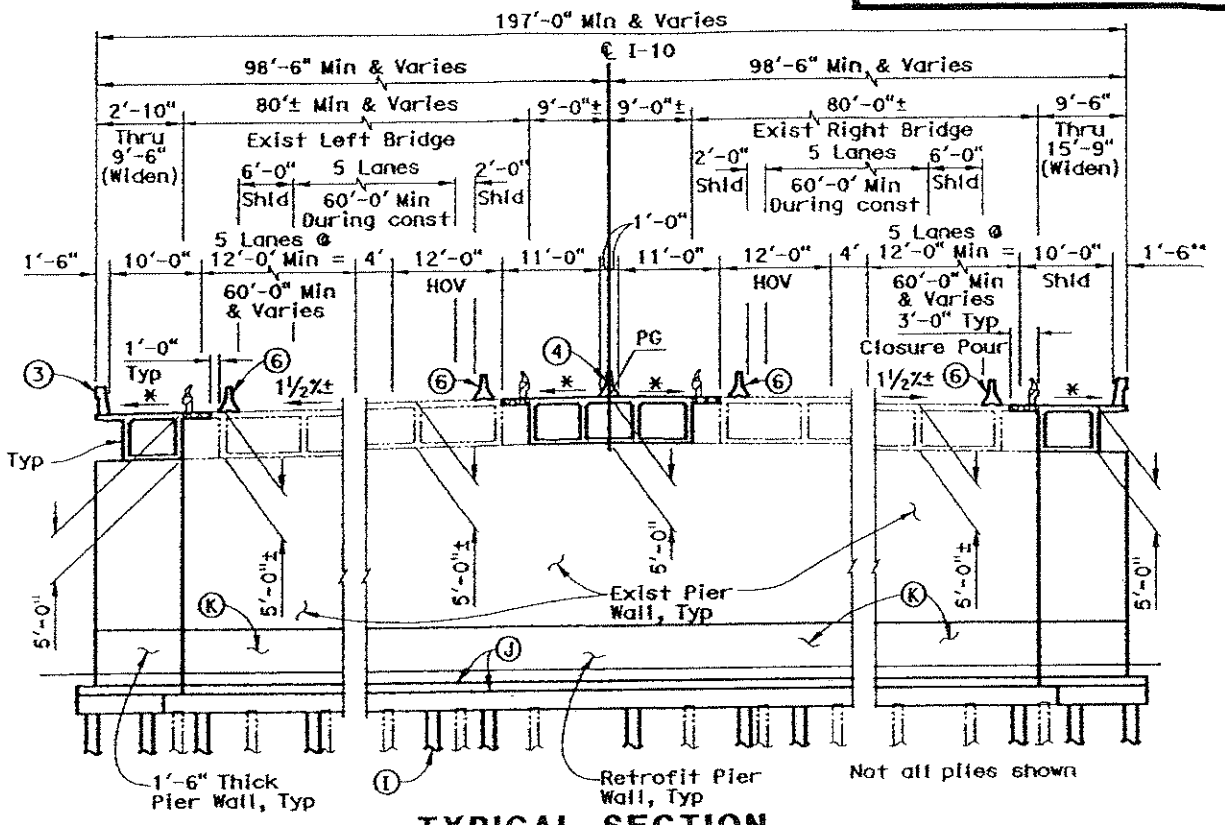
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	Sbd	10	3.20/33 - 43
SAM BERNARDINO ASSOCIATED GOVERNMENTS			1170 W Third St 2nd Floor San Bernardino CA 92410
PARSONS			2201 DUPONT DR 2VE SUITE 200 IRVINE, CA 92612



**ELEVATION**  
1" = 30'



**PLAN**  
1" = 30'



**TYPICAL SECTION**  
1" = 10'

**NOTES:**

- ① Paint "Br. No. 54-0830"
- ② Paint "Warm Creek Bridge"
- ③ Concrete Barrier Type 736
- ④ Median Concrete Barrier Type 60A
- ⑤ Structure Approach Type N(300)
- ⑥ Temporary Railing Type K
- \* Match existing cross slope

**SEISMIC RETROFIT:**

- ① Add 24" CIDH Piles
- ② Footing Retrofit
- ③ Partial Pier Wall Retrofit

**CURVE DATA** ①

R = 20 000'  
 $\Delta = 03^{\circ}27'39''$   
 T = 604.21'  
 L = 1208.05'

DATE OF ESTIMATE	= 10/30/08
BRIDGE REMOVAL	= 4680 SF
STRUCTURE DEPTH	= 5'-0"
LENGTH	= 390'-0"
WIDTH	= 36'-7" thru 37'-0"
AREA	= 16,701 SF
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= \$261/SF (Widen)
DECK REHAB	= \$7,562,500
TOTAL COST	= \$11,800,000

**LEGEND:**

- ➔ Direction of Travel
- ➔ Indicates Direction of Flow
- ▨ Indicates Bridge Removal (Portion)
- ▩ Indicates Closure Pour
- ◇ Indicates HOV Lanes
- Denotes New Structure
- - - Denotes Existing Structure

DESIGNED BY	M. Sarraf	DATE	11/14/08
DRAWN BY	O. Sandoval	DATE	11/20/08
CHECKED BY	M. Mohseni	DATE	11/20/08
APPROVED	M. Mohseni	DATE	12/03/08

Mohsen Mohseni  
PROJECT ENGINEER

<b>PLANNING STUDY</b>	
<b>WARM CREEK (WIDEN)</b>	
BRIDGE NO. 540830	CU 08224
SCALE: AS SHOWN	EA 0C2500

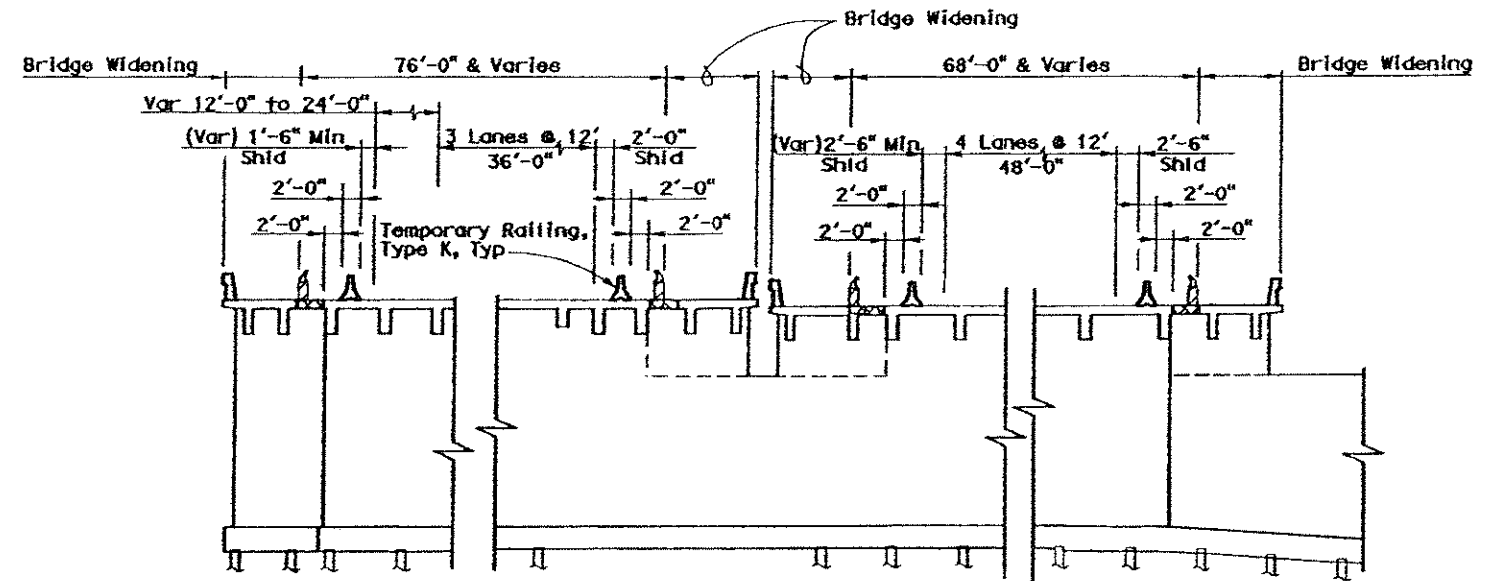
DESIGN OVERSIGHT  
 2/9/09





PREPARED FOR THE STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT
8	Sbd	10	8.20/33.43
SAN BERNARDINO ASSOCIATED GOVERNMENTS		1170 W Third St 2nd Floor San Bernardino CA 92410	
PARSONS		2201 DUPONT DRIVE SUITE 200 IRVINE, CA 92612	



Note:  
For information not shown refer to "Typical Section" on "Planning Study 1 of 2" sheet.

**TYPICAL SECTION DURING CONSTRUCTION**  
1" = 10'

DESIGN CHECKED BY: *Sally Sun*  
DATE: 2/9/09  
STAMP OFF DATE

DESIGNED BY	S. Mullaangi	DATE	1/20/09
DRAWN BY	P. Johnson	DATE	1/20/09
CHECKED BY	M. Mohseni	DATE	1/20/09
APPROVED	M. Mohseni	DATE	1/20/09

Mohsen Mohseni PROJECT ENGINEER	<b>PLANNING STUDY 2 OF 2</b>	
	<b>SANTA ANA RIVER BRIDGE (WIDEN)</b>	
	BRIDGE NO. 54-0292R/L	CU 08224
SCALE:	AS SHOWN	EA OC2500

ADVANCE PLANNING STUDY SHEET (ENR) (REV. 2/26/05)

FILE => c:\pw\_working\_son\ptg\p0038016\das18516\54-0292-A-GP02.dgn

USERNAME => p0038016 DATE PLOTTED => 2/4/2009 TIME PLOTTED => 3:52:05 PM

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT
8	Sbd	10	8.20/33 - 43
SAN BERNARDINO ASSOCIATED GOVERNMENTS			1170 W Third St 2nd Floor San Bernardino CA 92410
PARSONS			2201 DUPONT DRIVE SUITE 200 IRVINE, CA 92612

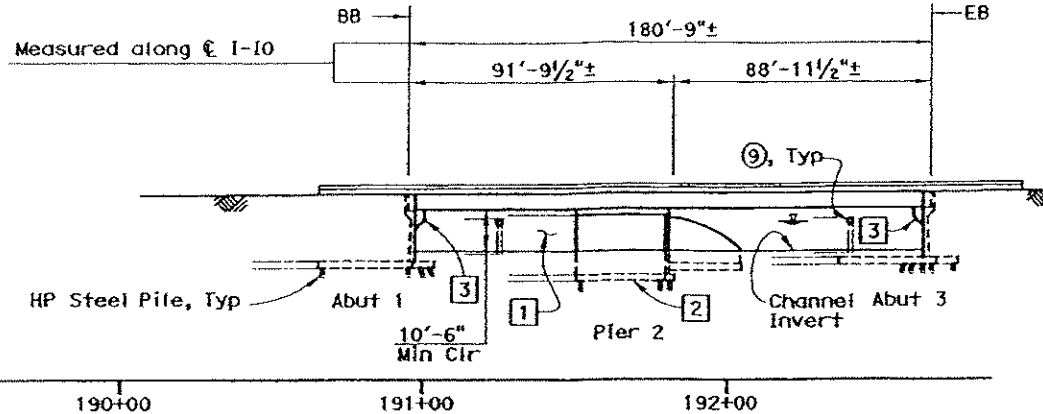
**RETROFIT LEGEND:**

- 1 Thicken exist pier wall.
- 2 Retrofit exist pile cap and add piles.
- 3 Add Abut Catcher blocks.

**NOTES:**

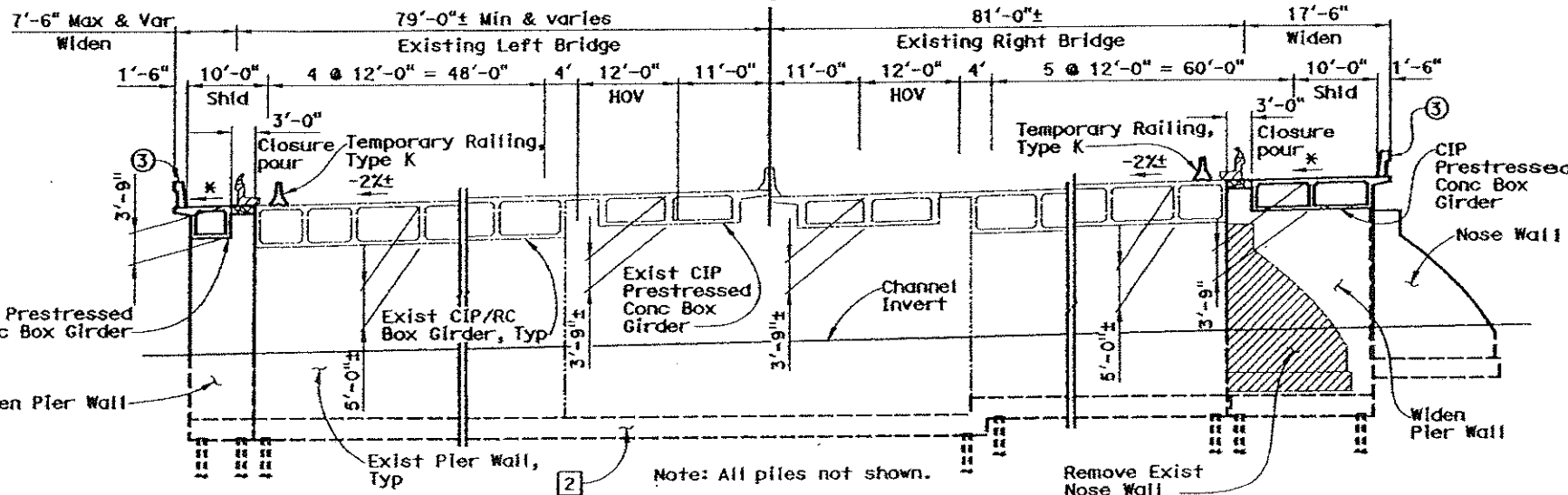
- 1 Paint "Br No. 54-0599"
  - 2 Paint "San Timoteo Creek Bridge"
  - 3 Concrete Barrier Type 736
  - 4 Retaining Wall, See "Road Plans"
  - 5 MBGR, See "Road Plans"
  - 6 Structure Approach Type R(30S)
  - 7 Remove Exist wingwall
  - 8 Exist Channel Wall
  - 9 Channel Wall Retrofit
  - 10 Exist Pier Wall
- \* Match existing cross slope

Datum Elev 980.00'



**ELEVATION**

1" = 30'



**TYPICAL SECTION**

1" = 10'

**BRIDGE**

DATE OF ESTIMATE	=	05/20/09
BRIDGE REMOVAL	=	1085 SF
STRUCTURE DEPTH	=	3'-9"
LENGTH	=	180'-9"
WIDTH	=	27'-6"
AREA	=	4971 SF
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	\$ 300/SF **

PRELIMINARY SEISMIC RETROFIT	=	\$ 200,000
TOTAL COST	=	\$ 1,500,000

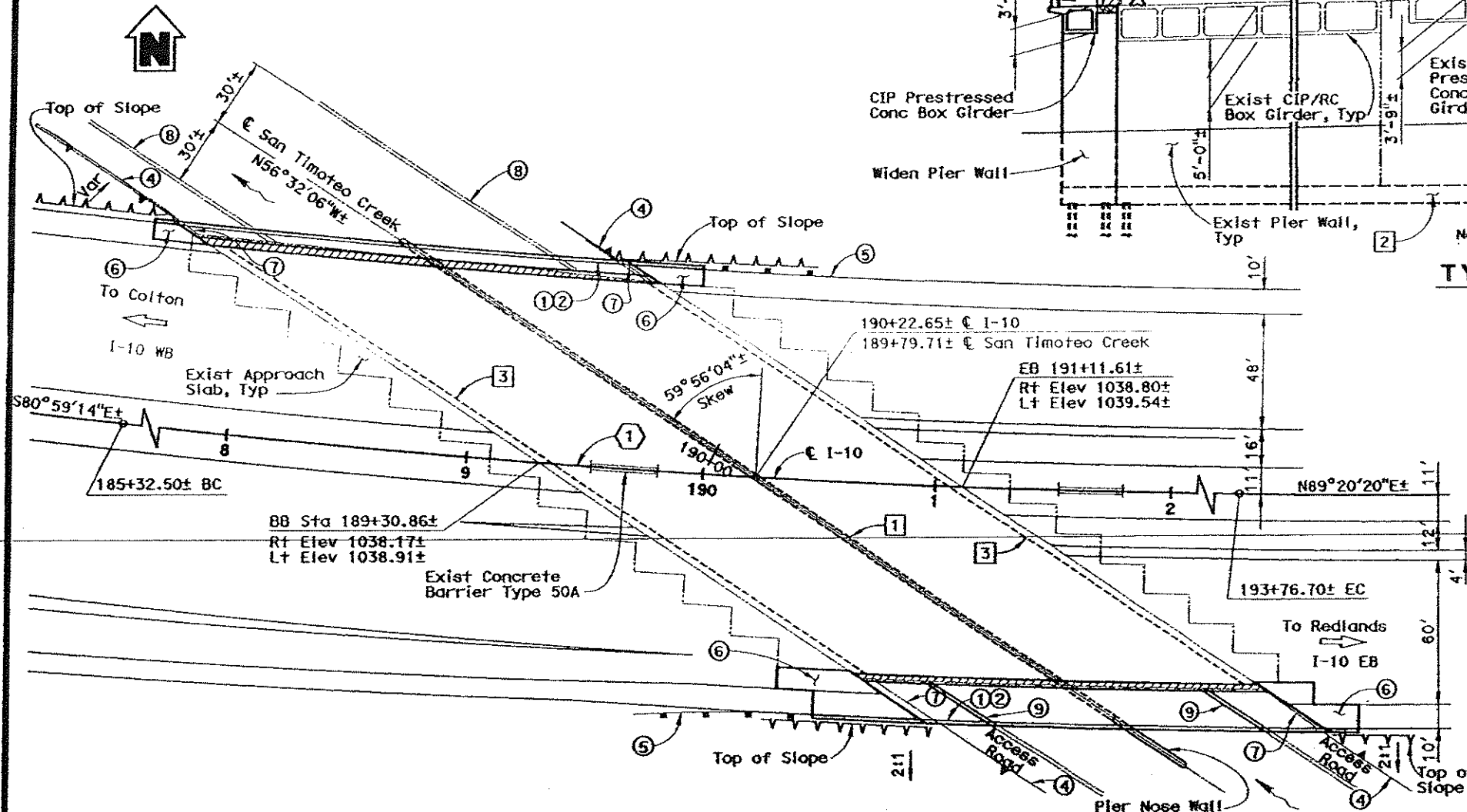
\*\* Cost doesn't include seismic retrofit

**LEGEND:**

- Direction of Travel
- MBGR
- Indicates Existing Structure
- Indicates New Structure
- Indicates limits of Bridge Removal

**CURVE DATA** ①

R = 4999.96'  
 $\Delta$  = 9°40'26"  
 T = 423.11'  
 L = 844.20'



**PLAN**

1" = 30'

DESIGNED BY	U. Sandra	DATE	5/20/09
DRAWN BY	A. Segura	DATE	5/20/09
CHECKED BY	M. Mohseni	DATE	5/20/09
APPROVED	M. Mohseni	DATE	5/20/09

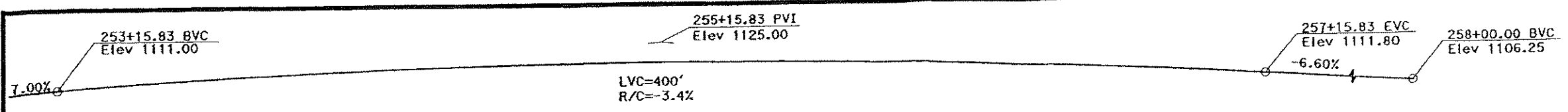
Mohsen Mohseni  
PROJECT ENGINEER

PLANNING STUDY	
SAN TIMOTEO CREEK BRIDGE (WIDEN)	
BRIDGE NO. 54-0599	CU 08224
SCALE: AS SHOWN	EA 0C2500

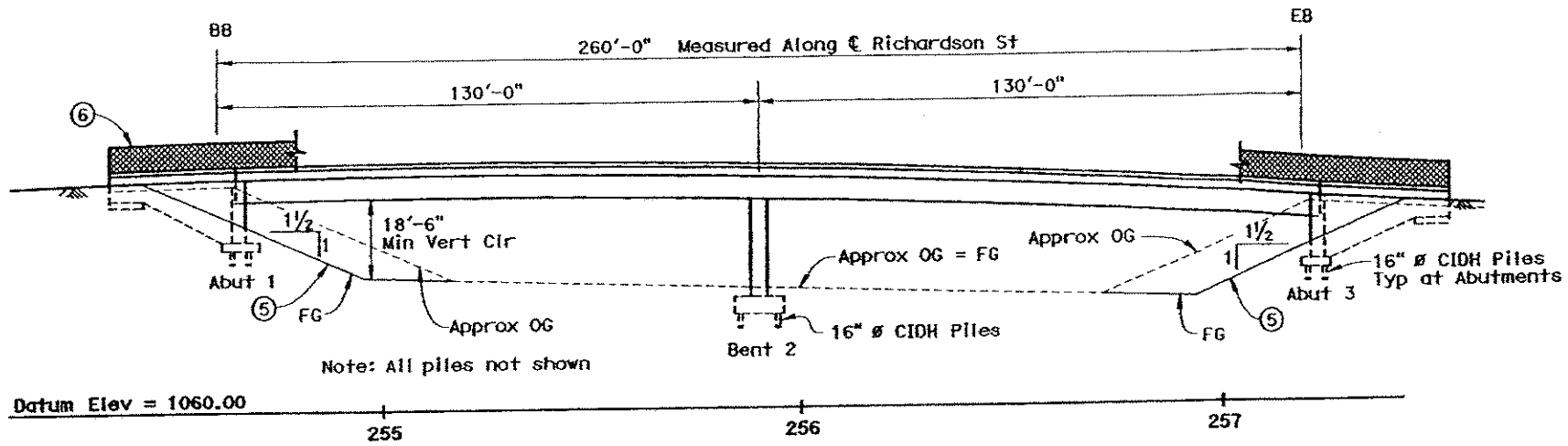
*Lily Sun*  
 DESIGN OVERSIGHT  
 6/18/09  
 SIGN OFF DATE

PREPARED FOR THE STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

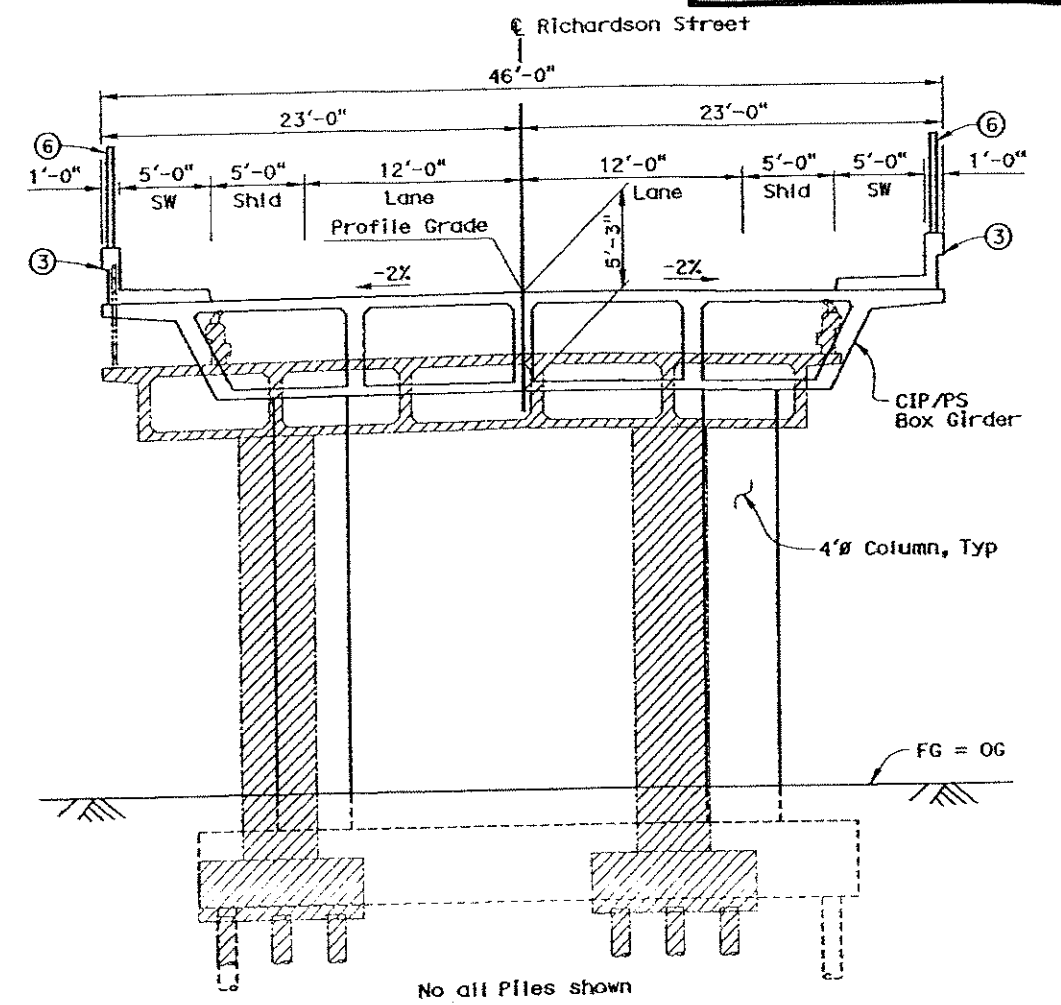
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
8	SBd	10	8.20/33.43
SAN BERNARDINO ASSOCIATED GOVERNMENTS			1170 W Third St 2nd Floor San Bernardino CA 92410
PARSONS			2201 DUPONT DRIVE SUITE 200 IRVINE, CA 92612



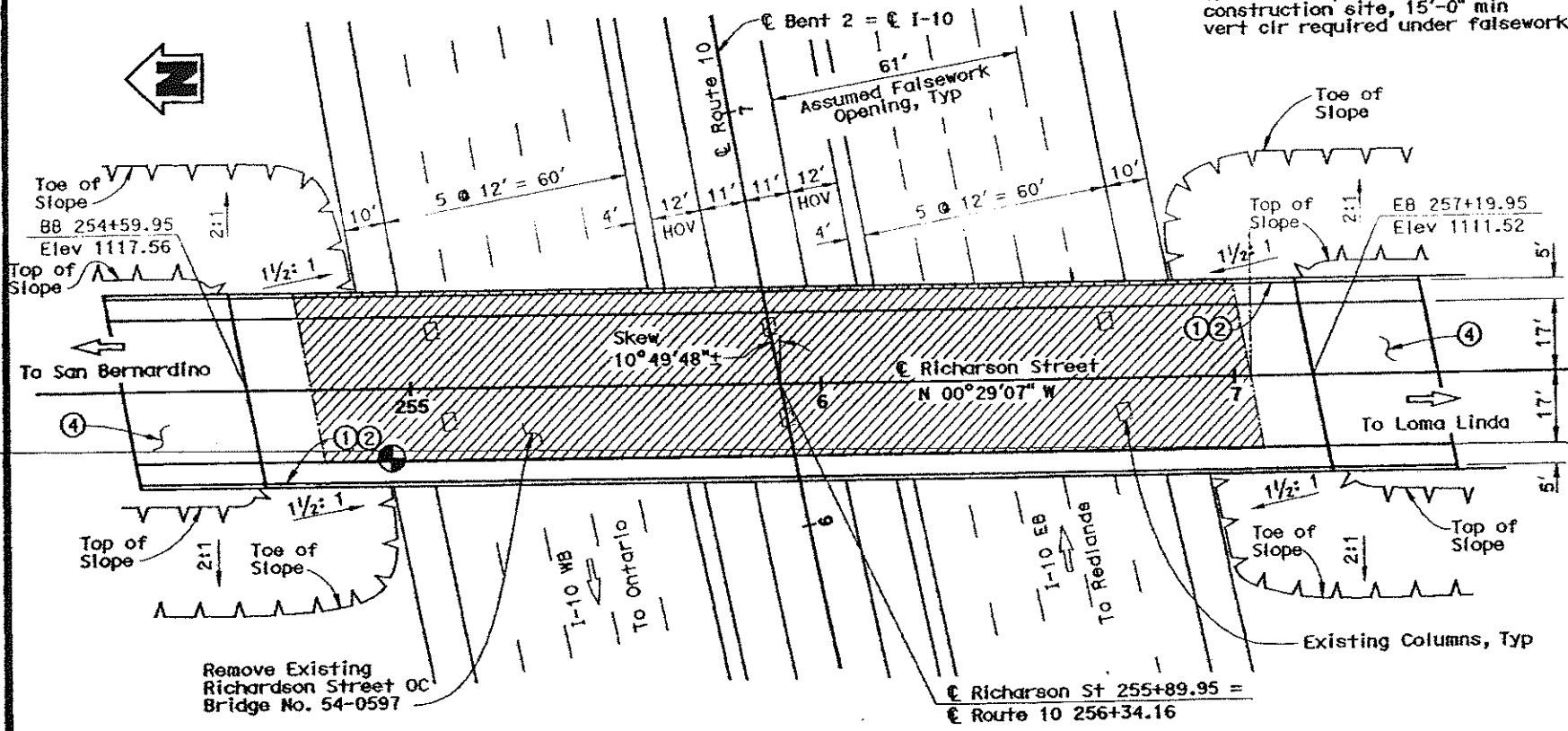
**PROFILE**  
No Scale



**ELEVATION**  
1" = 20'



**TYPICAL SECTION**  
1" = 5'



**PLAN**  
1" = 20'

Note:  
Traffic will pass through construction site, 15'-0" min vert clir required under falsework

**NOTES:**

- ① Paint "Br No. 54-0597"
  - ② Paint "Richardson Street OC"
  - ③ Concrete Barrier Type 26
  - ④ Structure Approach Type N(30S)
  - ⑤ Slope Paving
  - ⑥ Chain Link Railing (Type 7)
- LEGEND:**
- Direction of Traffic
  - - - Indicates Existing Structure
  - Point of Minimum Vertical Clearance
  - ▨ Indicates Bridge Removal

<b>BRIDGE</b>	
DATE OF ESTIMATE	= 12/10/08
BRIDGE REMOVAL	= 9,202 SF
STRUCTURE DEPTH	= 5'-3"
LENGTH	= 260'-0"
WIDTH	= 46'-0"
AREA	= 11,960 SF
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= \$226/SF
<b>TOTAL COST</b>	<b>= \$2,700,000</b>

DESIGNED BY	M. Ruvalcaba	DATE	12/16/08
DRAWN BY	P. Johnson/N. Morcillo	DATE	12/17/08
CHECKED BY	M. Mohseni	DATE	3/9/09
APPROVED	M. Mohseni	DATE	3/20/09

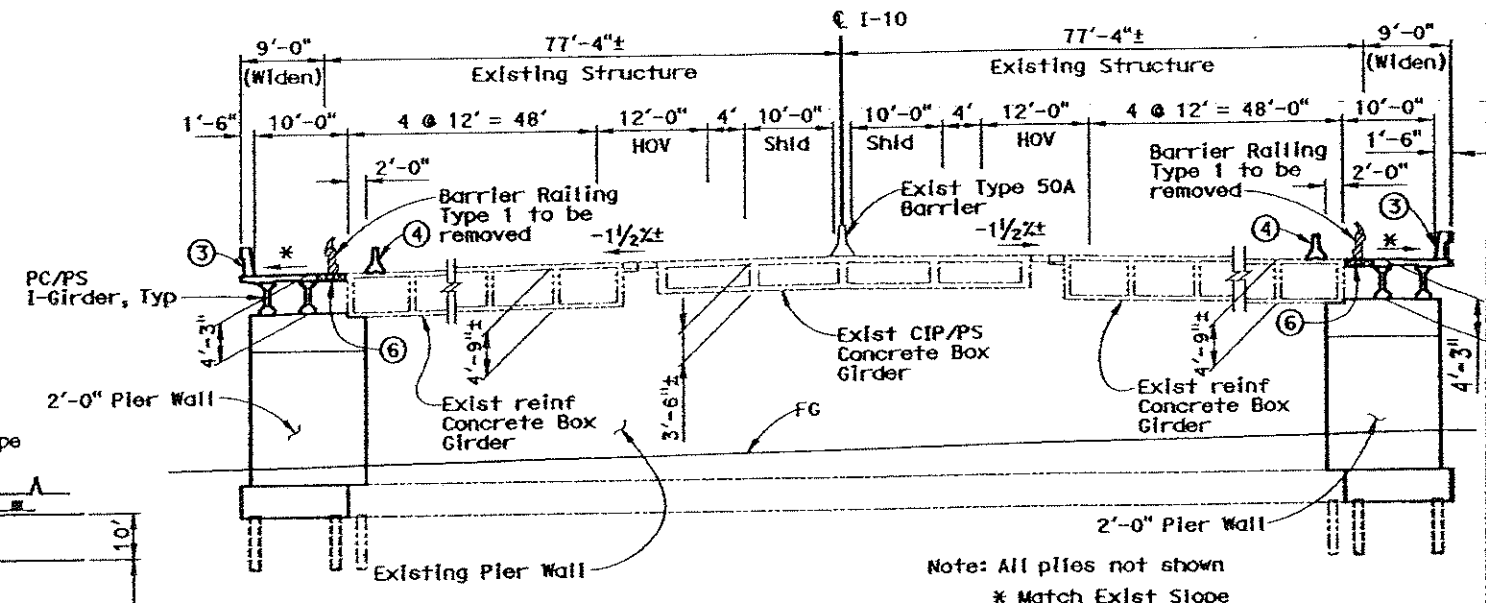
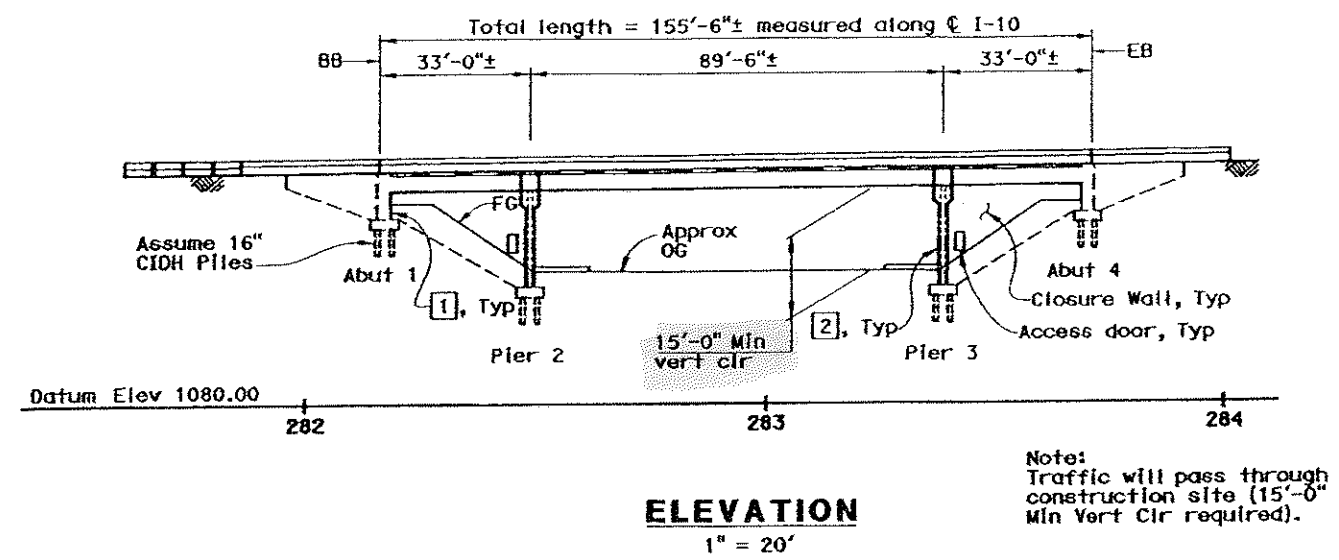
<b>PLANNING STUDY</b>	
<b>RICHARDSON STREET OC (REPLACE)</b>	
BRIDGE NO. 54-0597	CU 08224
SCALE: AS SHOWN	EA OC2500

DESIGNER: *[Signature]*  
DATE: 6/18/09  
SIGN OFF DATE

USERNAME => P0021213 DATE PLOTTED => 5/23/2008 TIME PLOTTED => 11:24:27 PM

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT
8	Sbd	10	3.20/33 - 45
SAN BERNARDINO ASSOCIATED GOVERNMENTS			1170 W Third St 2nd Floor San Bernardino CA 92410
PARSONS			2201 DUPONT DR X VE SUITE 200 IRVINE, CA 92612

- Notes:**
- Paint "Br. No. 54-0596"
  - Paint "Mountain View Ave UC"
  - Concrete Barrier Type 736
  - Temporary Railing (Type K)
  - Structure Approach, Type R(30S)
  - 3'-0" Closure Pour



**TYPICAL SECTION**  
1" = 10'

DATE OF ESTIMATE	=	03/20/09
BRIDGE REMOVAL	=	936 SF
STRUCTURE DEPTH	=	4'-3"
LENGTH	=	155'-6"
WIDTH	=	18'-0"
AREA	=	2802 SF
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	\$ 500
** PRELIM SEISMIC RETROFIT	=	\$ 200,000
TOTAL COST	=	\$ 1,400,000

\*\* Seismic retrofit included in total cost

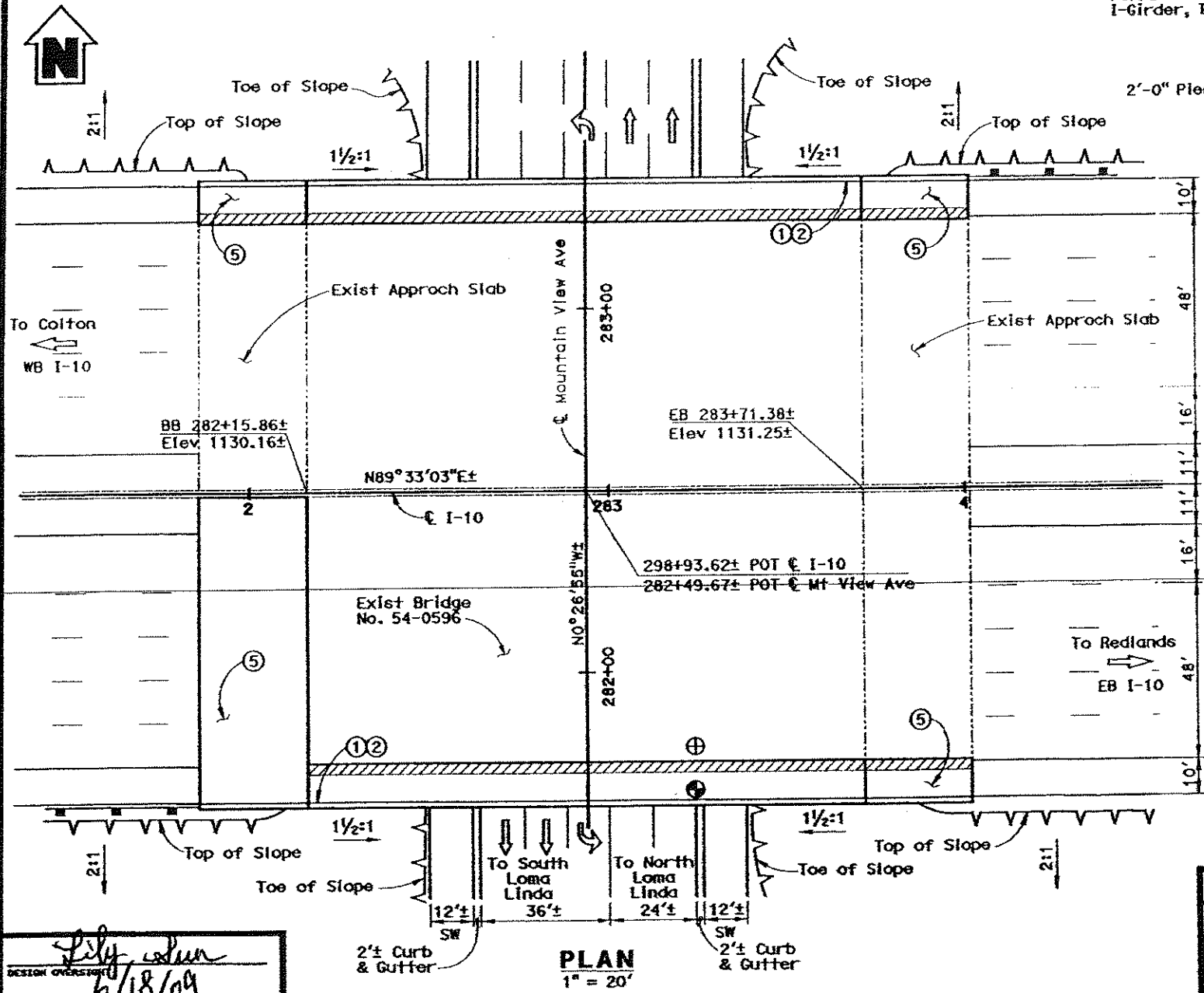
RECEIVED  
JUN 11 2009  
OFFICE OF SPECIAL FUNDED PROJECTS

**RETROFIT NOTES:**

- 1 Abutment Retrofit
- 2 Pier wall Retrofit (Thicken)

**LEGEND:**

- ➔ Direction of Travel
- ▨ Bridge Removal (Portion)
- MBGR
- ⊙ Point of Minimum Vertical Clearance
- ⊕ Point of Existing Minimum Vertical Clearance (15'-0" Per Caltrans Bridge Inspection Report)



**PLAN**  
1" = 20'

DESIGNED BY	J. Le	DATE	3/20/09
DRAWN BY	A. Segura	DATE	3/20/09
CHECKED BY	U. Sandra	DATE	3/20/09
APPROVED	M. Moheeni	DATE	3/20/09

Mohsen Moheeni  
PROJECT ENGINEER

<b>PLANNING STUDY</b>	
<b>MOUNTAIN VIEW AVE UC (WIDEN)</b>	
BRIDGE NO. 54-0596	CU 08224
SCALE: AS SHOWN	EA 0C2500

DESIGN OVERSIGHT  
6/18/09

PREPARED FOR THE STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	Sbd	10	3.20/33.43

**SAN BERNARDINO ASSOCIATED GOVERNMENTS** 1170 W Third St 2nd Floor San Bernardino CA 92410

**PARSONS** 2201 DUPONT DR IVE SUITE 200 IRVINE, CA 92612

RECEIVED

JUN 11 2009

OFFICE OF SPECIAL FUNDED PROJECTS

Datum Elev 1090.00

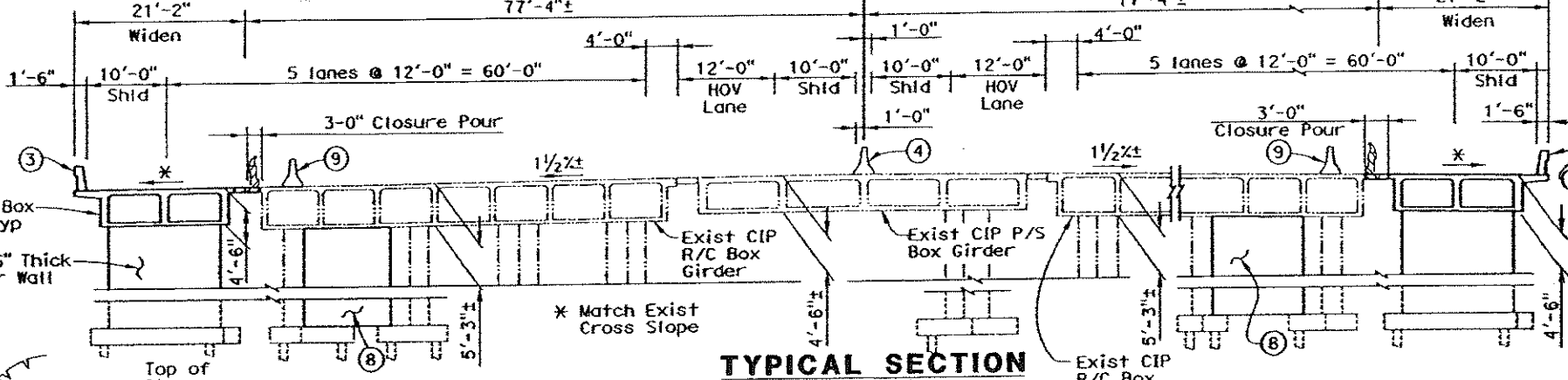
**NOTES:**

- ① Paint "Br No. 54-570"
- ② Paint "West Redlands Overhead"
- ③ Concrete Barrier, Type 736
- ④ Concrete Barrier, Type 60A
- ⑤ Structure Approach, Type N(300)
- ⑥ Slope Protection (Grouted rip rap)
- ⑦ Crash Wall
- ⑧ 1'-6" Thick Infill Wall (Seismic Retrofit)
- ⑨ Temporary Railing, Type "K"

Dirt Service Rd  
Vert Clr:  
22'-9" Min Exist  
23'-0" Min Proposed

**ELEVATION**

1" = 30'



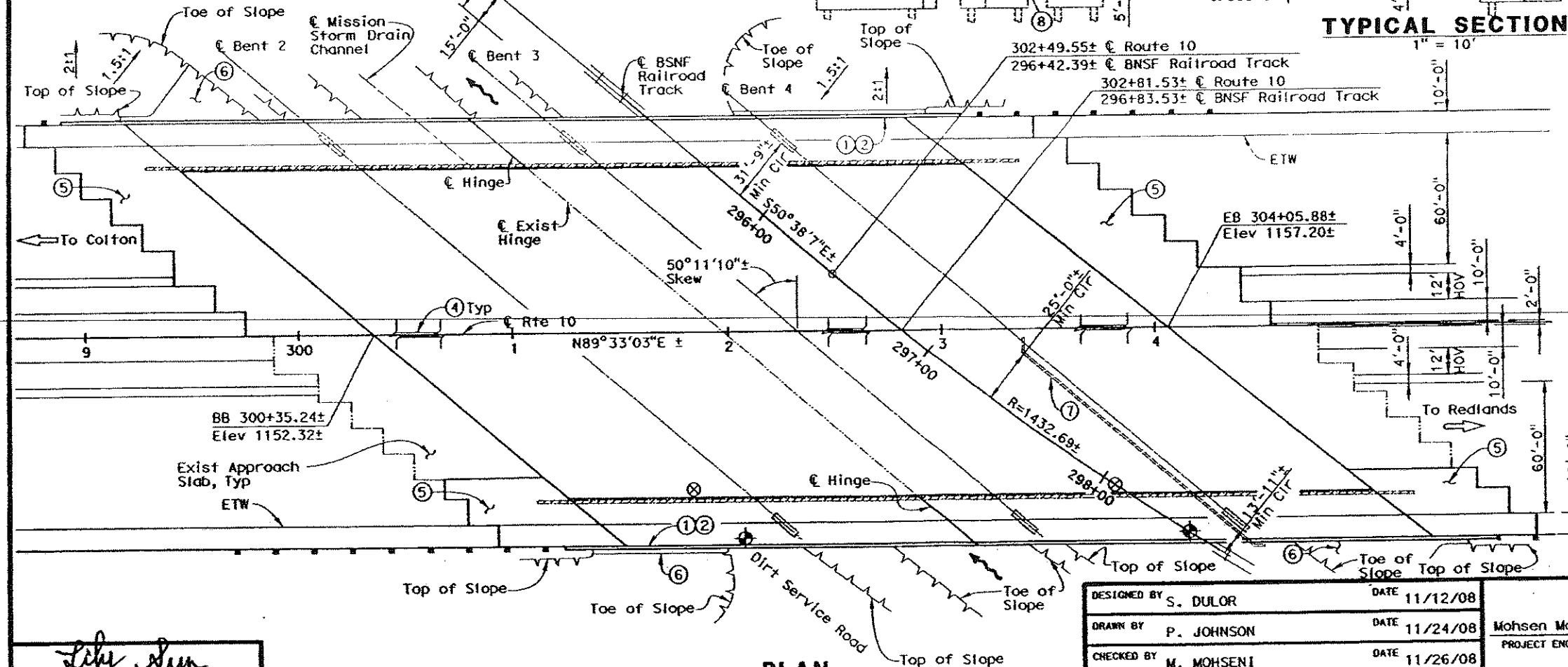
**TYPICAL SECTION**

1" = 10'

- LEGEND:**
- Direction of Travel
  - ↘ Direction of Flow
  - ⊕ Point of Proposed Min Vertical clearance
  - ⊗ Point of Exist Min Vertical clearance
  - ▨ Indicates Removal (Portion)
  - MBGR

Note:  
Railroad traffic will pass through construction site (21'-0" minimum vertical clearance required over tracks)

DATE OF ESTIMATE	=	3/16/09
BRIDGE REMOVAL	=	\$9,075
STRUCTURE DEPTH	=	4'-6"
LENGTH	=	371'-0"
WIDTH	=	19'-0"
AREA	=	16,821 SF
PRELIM SEISMIC RETROFIT	=	\$285,000
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	\$226
MAINTENANCE ITEMS	=	\$655,000
RAILROAD ITEMS	=	\$157,000
<b>TOTAL COST</b>	<b>=</b>	<b>\$4,600,000</b>



**PLAN**

1" = 30'

DESIGNED BY	S. DULOR	DATE	11/12/08
DRAWN BY	P. JOHNSON	DATE	11/24/08
CHECKED BY	M. MOHSENI	DATE	11/26/08
APPROVED	M. MOHSENI	DATE	12/5/08

Mohsen Mohseni  
PROJECT ENGINEER

PLANNING STUDY	
WEST REDLANDS OH (WIDEN)	
BRIDGE NO. 54-570	CU 08224
SCALE: As Noted	EA 0C2500

DESIGN OVERSIGHT  
*Lily Sun*  
6/18/09  
SIGN OFF DATE

TIME PLOTTED => \$TIME  
DATE PLOTTED => \$DATE  
USERNAME => \$USER

PREPARED FOR THE STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

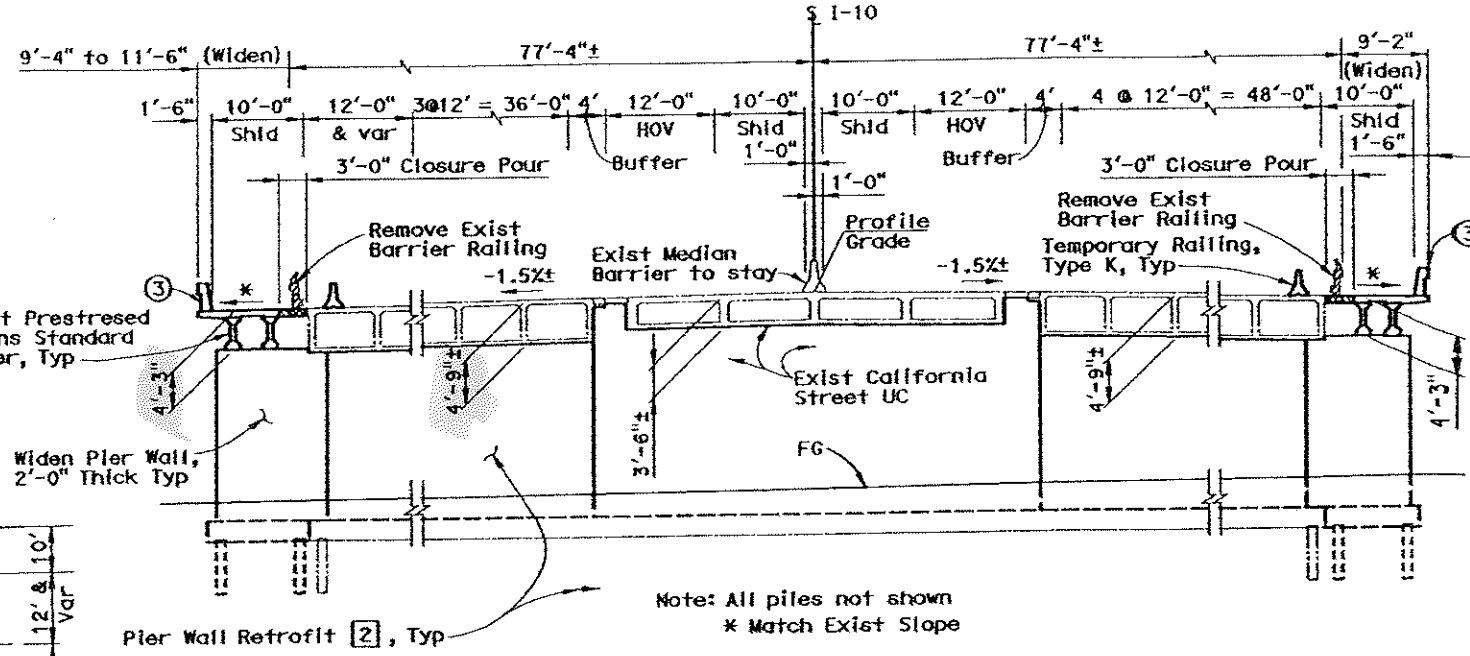
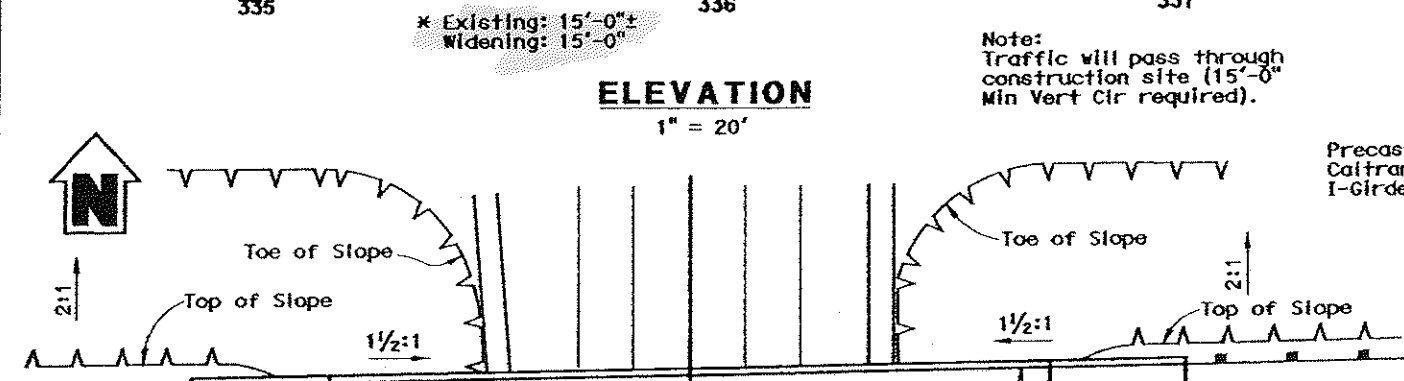
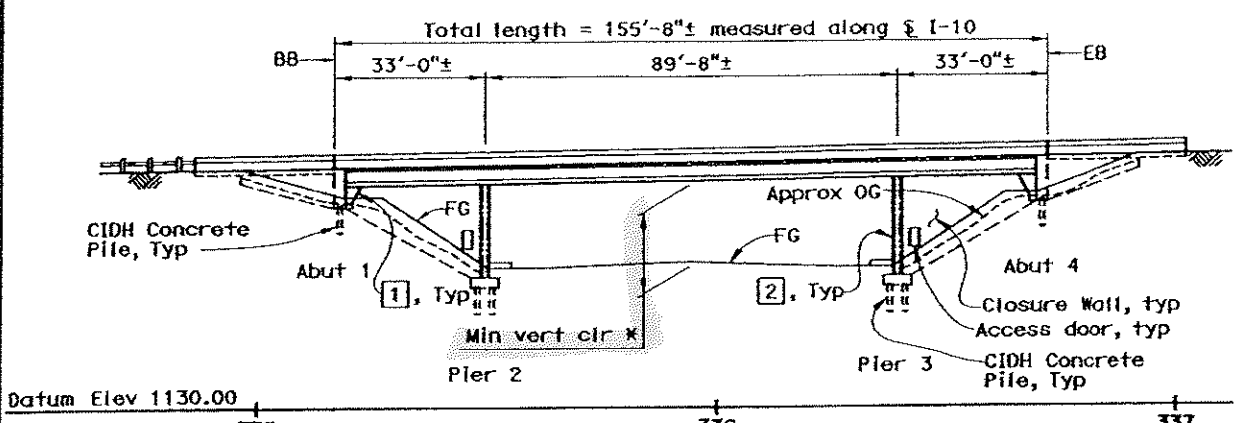
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT
8	Sbd	10	8.20/33 - 43

RECEIVED  
 JUN 11 2009  
 OFFICE OF SPECIAL FUNDED PROJECTS

SAN BERNARDINO ASSOCIATED GOVERNMENTS  
 1170 W Third St  
 2nd Floor  
 San Bernardino CA 92410

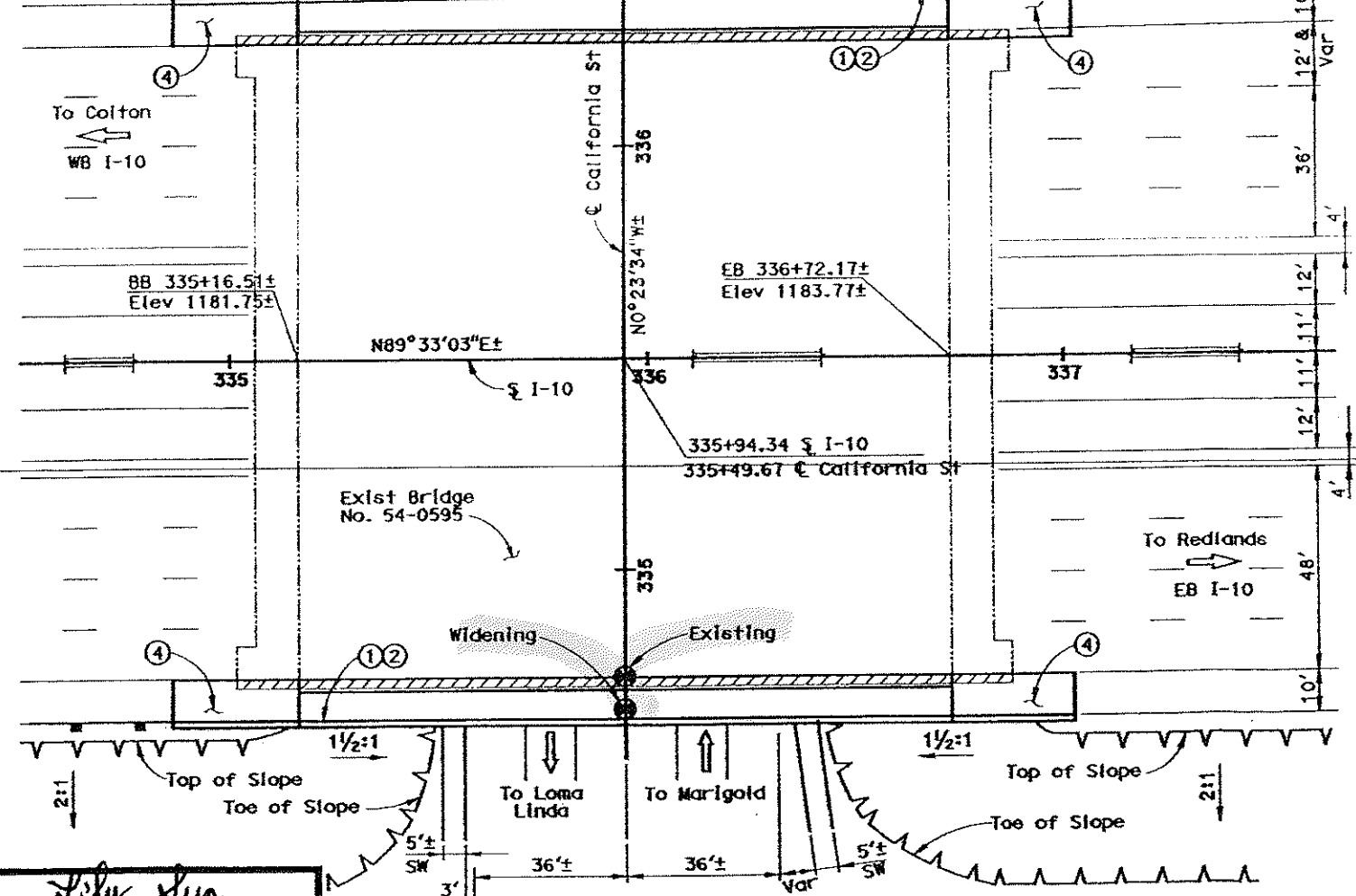
PARSONS  
 2201 DUPONT DR EXE  
 SUITE 200  
 IRVINE, CA 92612

- Notes:
- Paint "Br No. 54-0595"
  - Paint "California Street UC"
  - Concrete Barrier Type 736
  - Structure Approach



**TYPICAL SECTION**

DATE OF ESTIMATE	=	3/27/09
BRIDGE REMOVAL	=	676 SF
STRUCTURE DEPTH	=	4'-3"
LENGTH	=	155'-8"
WIDTH	=	18'-6" to 20'-8"
AREA	=	3048 SF
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	=	\$ 382
PRELIM SEISMIC RETROFIT	=	\$ 494,000
TOTAL COST	=	\$ 1,700,000



- RETROFIT NOTES:
- Abutment Retrofit
  - Pier wall Retrofit (Thicken)

- LEGEND:
- Direction of Travel
  - ▨ Bridge Removal (Portion)
  - MBGR
  - ⊙ Indicates Point of min vert clr

DESIGN OVERSIGHT  
 SIGN OFF DATE  
 6/18/09

DESIGNED BY	S. Mullangi	DATE	3/27/09
DRAWN BY	A. Segura	DATE	3/27/09
CHECKED BY	M. Mohseni	DATE	3/27/09
APPROVED	M. Mohseni	DATE	3/27/09

PLANNING STUDY	
CALIFORNIA STREET UC (WIDEN)	
BRIDGE NO. 54-0595	CU 08224
SCALE: AS SHOWN	EA OC2500

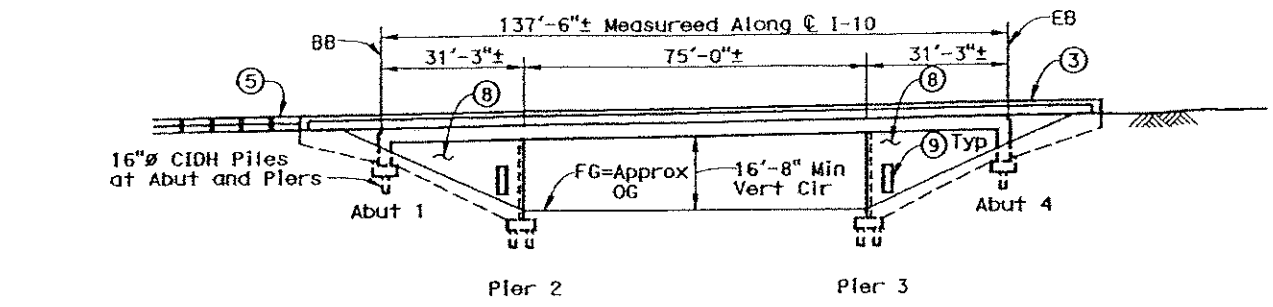
HOV ALTERNATIVE

PREPARED FOR THE STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
8	SBd	10	8.20/33 - 43

SAN BERNARDINO ASSOCIATED GOVERNMENTS  
 1170 W Third St  
 2nd Floor  
 San Bernardino  
 CA 92410

PARSONS  
 2201 DUPONT DR IVE  
 SUITE 200  
 IRVINE, CA 92612

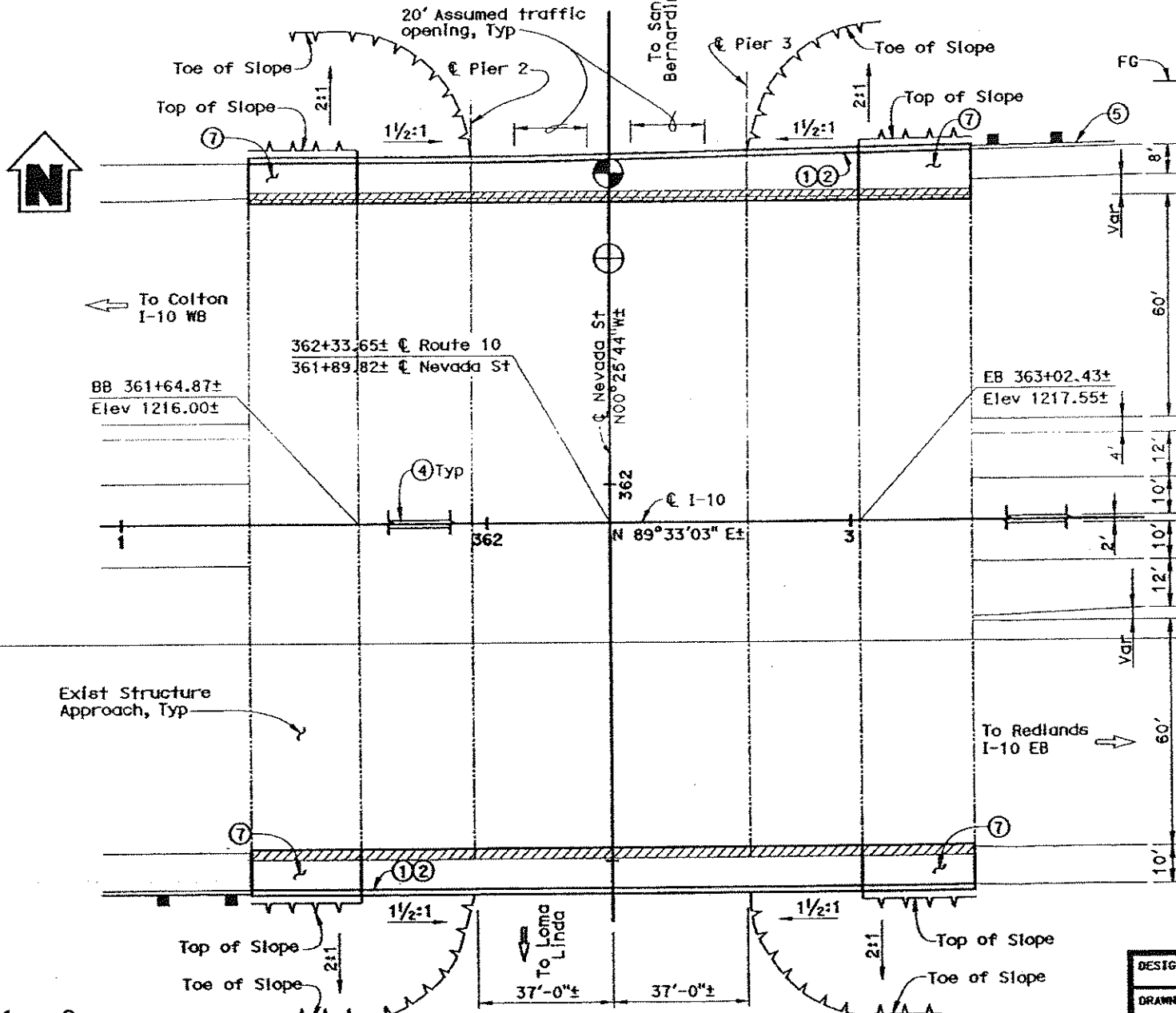


**ELEVATION**

1" = 20'

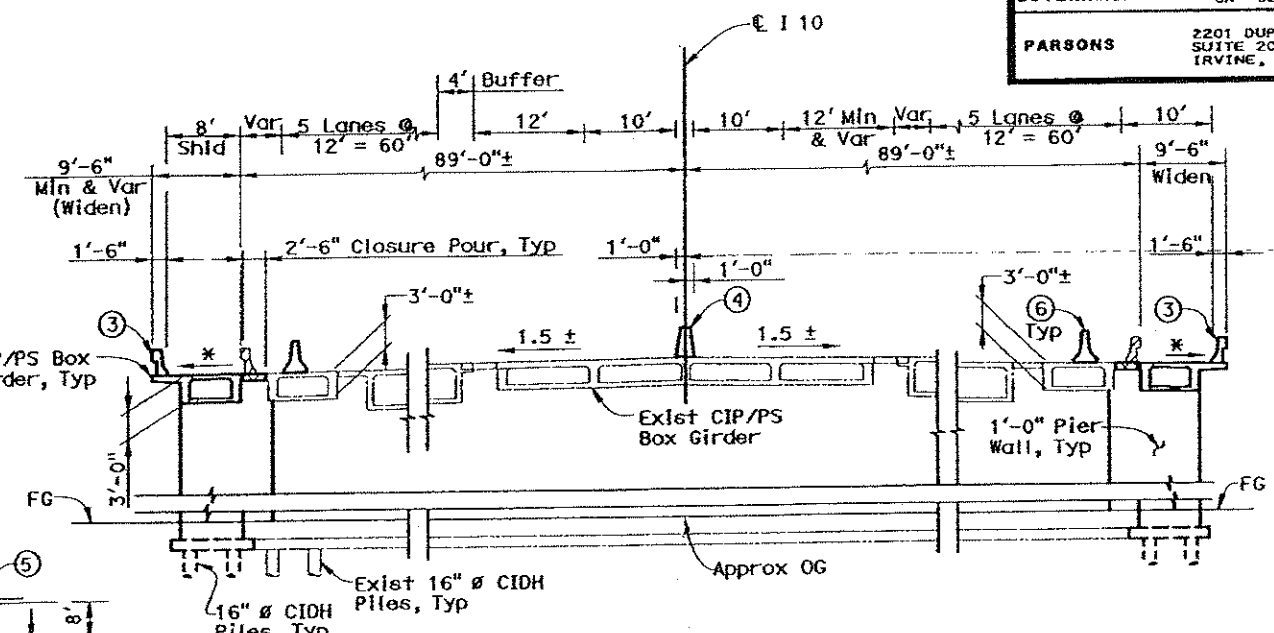
Note:

Traffic will pass through construction site, 15'-0" min vert cir required under falsework.



**PLAN**

1" = 20'



**TYPICAL SECTION**

1" = 10'

**NOTES:**

- ① Point "Br No. 54-0594"
- ② Point "Nevada Street UC"
- ③ Concrete Barrier Type 736
- ④ Concrete Barrier Type 60A
- ⑤ Metal Beam Guard Rail, see "Road Plans"
- ⑥ Temporary Railing Type K
- ⑦ Structure Approach Type N (300)
- ⑧ Closure Wall
- ⑨ Access Door

**LEGEND:**

- ← Direction of Traffic
- MBGR
- ▨ Limits of Bridge Removal
- ⊙ Point of Minimum Vertical Clearance
- ⊕ Point of Existing Minimum Vertical Clearance (15'-9" Per Caltrans Bridge Inspection Report)

RECEIVED

JUN 11 2009

OFFICE OF SPECIAL FUNDED PROJECTS

<b>BRIDGE</b>	
DATE OF ESTIMATE	= 12/3/08
BRIDGE REMOVAL	= 758 SF
STRUCTURE DEPTH	= 3'-0"
LENGTH	= 137'-6"
WIDTH	= 9'-6" Min & Var
AREA	= 3525 SF
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= \$218/SF
TOTAL COST	= \$770,000

DESIGNED BY	M. Ruvalcaba	DATE	12/17/08
DRAWN BY	P. Johnson/N. Morcillo	DATE	12/28/08
CHECKED BY	M. Mohseni	DATE	3/09/09
APPROVED	M. Mohseni	DATE	3/20/09

Mohsen Mohseni  
PROJECT ENGINEER

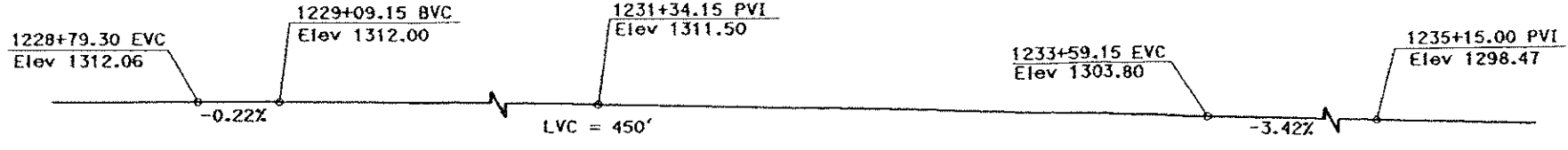
<b>PLANNING STUDY</b>	
<b>NEVADA STREET UNDERCROSSING (WIDEN)</b>	
BRIDGE NO. 54-594	CU 08224
SCALE: AS SHOWN	EA 0C2500

HOV ALTERNATIVE

DESIGN OVERSIGHT  
 SIGN OFF DATE  
 6/18/09



PREPARED FOR THE STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION



DATE OF ESTIMATE = 7-20-09

BRIDGE REMOVAL = 27,250 SF

STRUCTURE DEPTH = 4'-6"

LENGTH = 386'-0"

WIDTH = 78'-6"

AREA = 30,301 SF

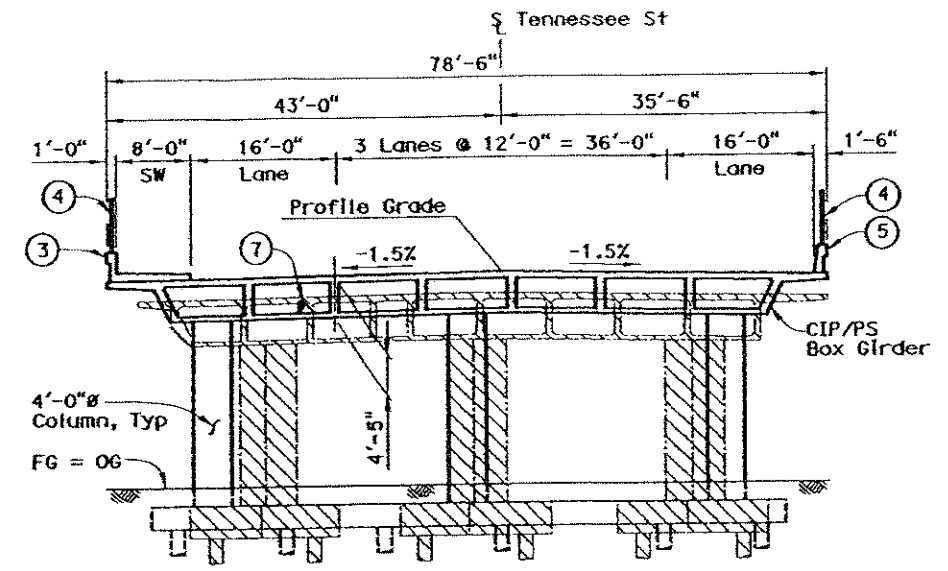
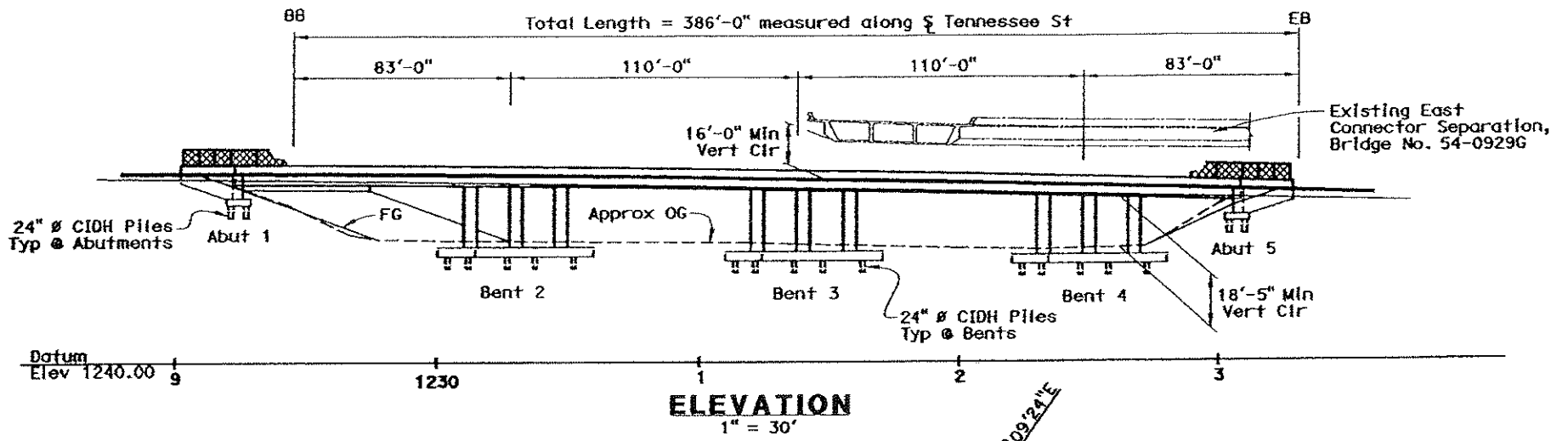
COST/SF INCLUDING 10% MOBILIZATION & 25% CONTINGENCY = \$254

TOTAL COST = \$7,700,000

DIST	COUNTY	ROUTE	POST MILES	TOTAL PROJECT
8	SBD	10	8.20/33 - 43	

SAN BERNARDINO ASSOCIATED GOVERNMENTS  
1170 W Third St  
2nd Floor  
San Bernardino CA 92410

PARSONS  
2201 DUPONT DRIVE  
SUITE 200  
IRVINE, CA 92612

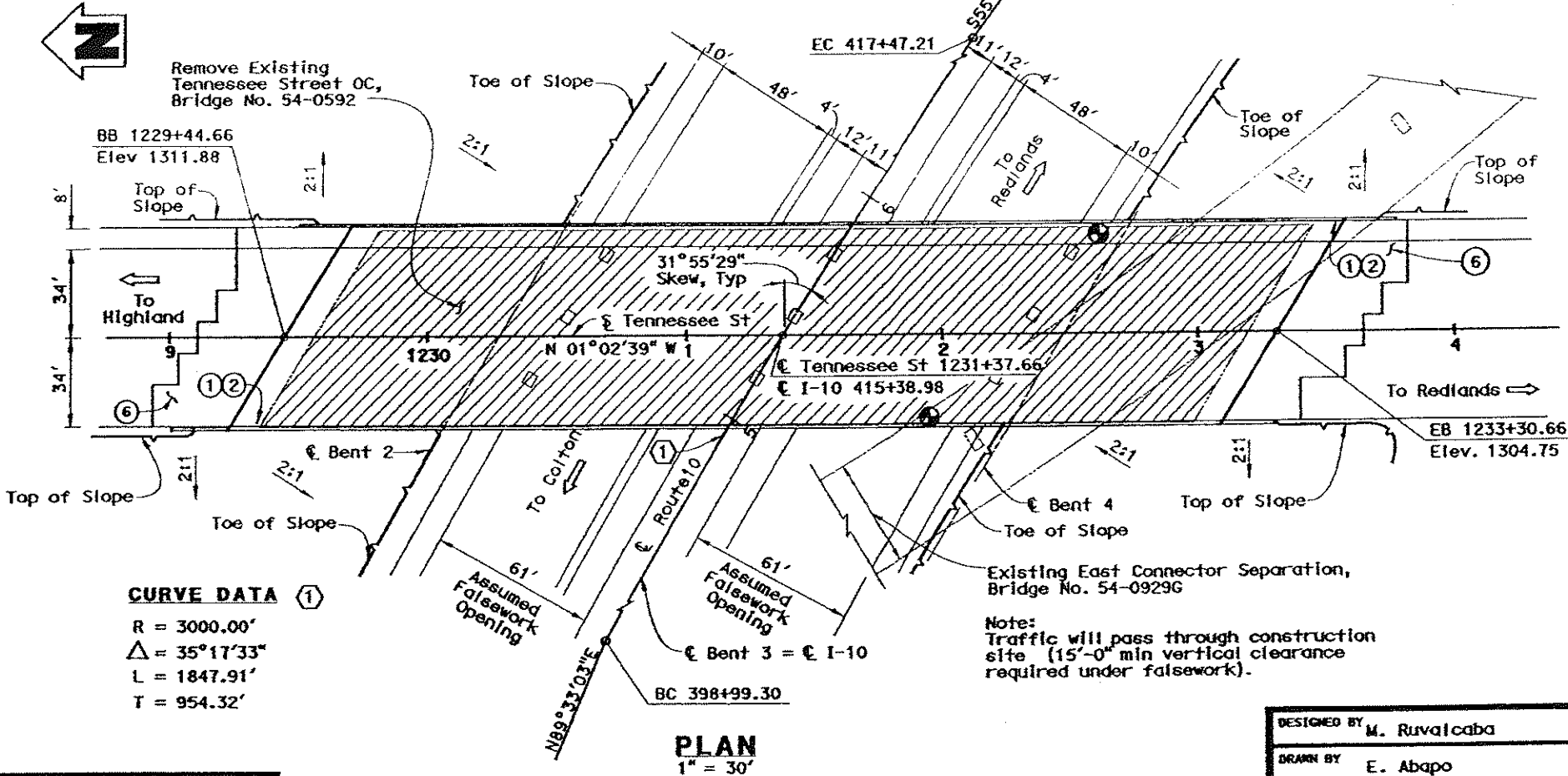


Note: All Piles not Shown

**TYPICAL SECTION**  
1" = 10'

- LEGEND:**
- Denotes Existing Structure
  - ▨ Limits of Concrete Removal
  - Direction of Travel
  - ⊕ Indicates Point of Minimum Vertical Clearance

- NOTES:**
- ① Paint "Br. No. 54-XXXX"
  - ② Paint "Tennessee Street OC"
  - ③ Concrete Barrier Type 26
  - ④ Chain Link Railing, Type 7
  - ⑤ Concrete Barrier Type 736
  - ⑥ Structure Approach Type N(30S)
  - ⑦ Proposed Supply Line



**CURVE DATA** ①

R = 3000.00'

Δ = 35°17'33"

L = 1847.91'

T = 954.32'

Note: Traffic will pass through construction site (15'-0" min vertical clearance required under falswork).

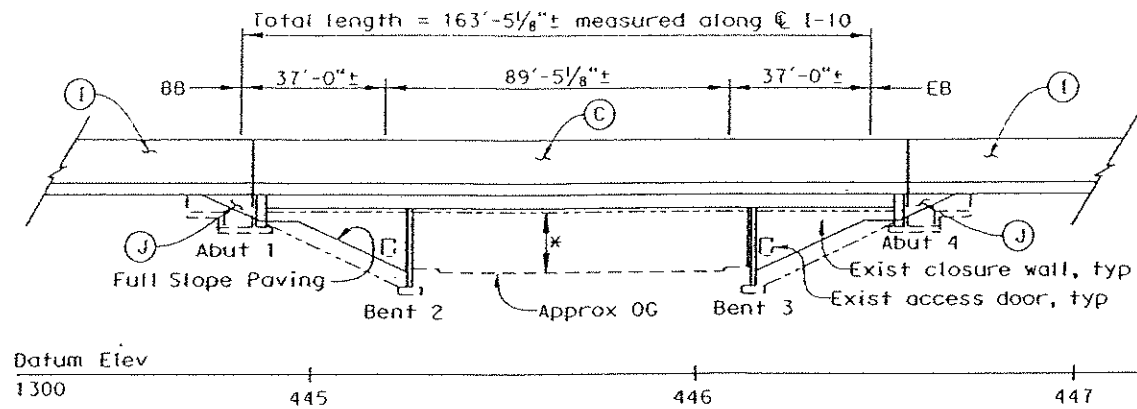
DESIGNED BY M. Ruvalcaba	DATE 7/16/09
DRAWN BY E. Abapo	DATE 7/22/09
CHECKED BY M. Mohseni	DATE 8/6/09
APPROVED M. Mohseni	DATE 8/12/09

<b>PLANNING STUDY</b>	
<b>TENNESSEE STREET OC (REPLACE)</b>	
BRIDGE NO. 54-XXXX	CU 08224
SCALE: AS SHOWN	EA 0C2500

**HOV ALTERNATIVE**

FILE => REQUEST

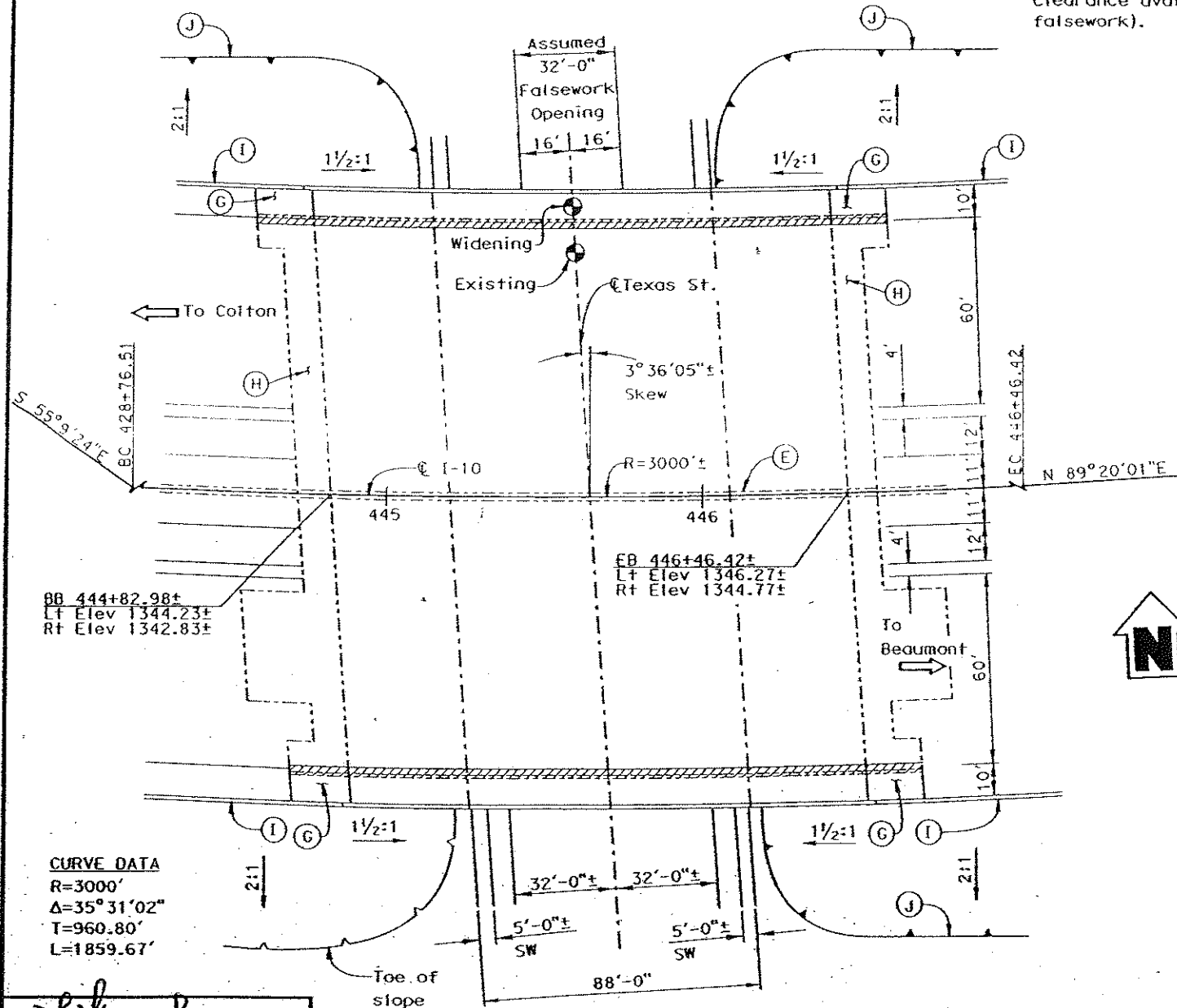
TIME PLOTTED => #TIME  
DATE PLOTTED => #DATE  
USERNAME => #USER



\* Min vert clr = 16'-8" @ existing and 16'-9" @ widening

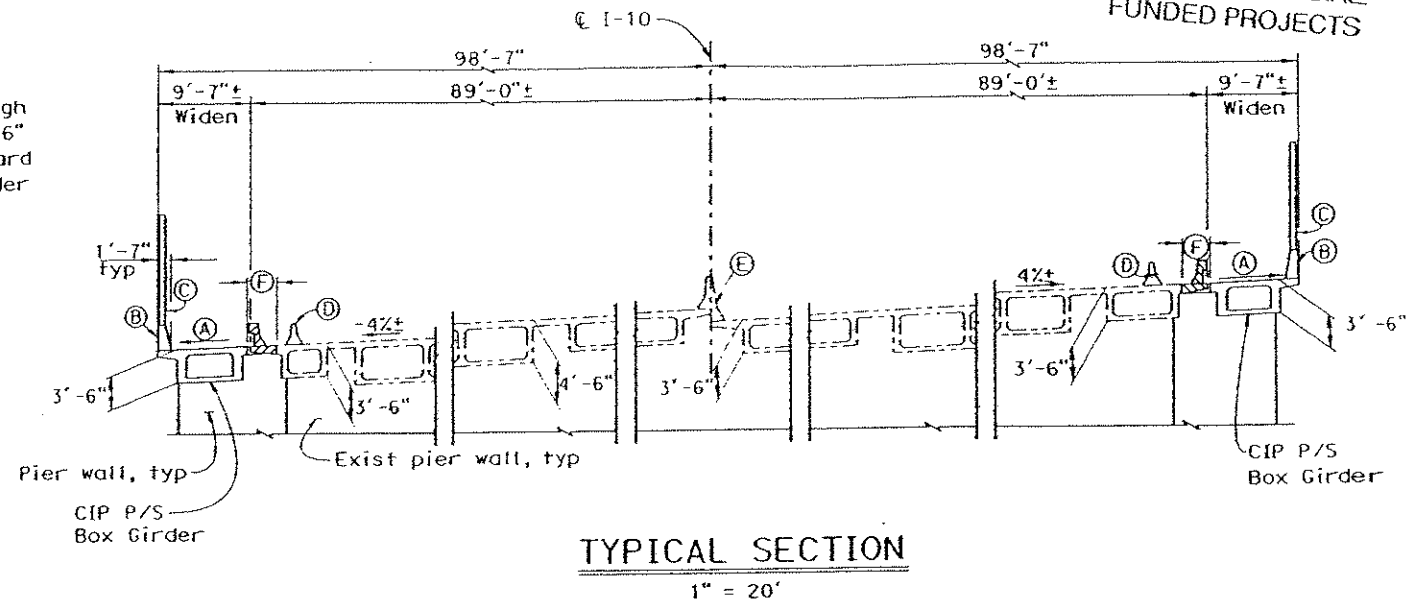
**ELEVATION**  
1" = 50'

Note: Traffic will pass through construction site (14'-6" min vertical sub-standard clearance available under falsework).



**CURVE DATA**  
R=3000'  
 $\Delta=35^\circ 31' 02''$   
T=960.80'  
L=1859.67'

**PLAN**  
1" = 50'



**TYPICAL SECTION**  
1" = 20'

**LEGEND:**

- ⊙ Indicates point of min. vertical clearance
- ▨ Limits of concrete removal
- Denotes existing structure
- (A) Match existing profile grade and superelevation
- (B) Concrete Barrier Type 736 (Mod)
- (C) Soundwall - Masonry Block (H=14'-4")
- (D) Temporary Railing Type K
- (E) Existing concrete barrier
- (F) 3'-0" Closure pour
- (G) Structure approach, type N(300)
- (H) Existing structure approach
- (I) Sound wall, see "Road Plans"
- (J) Retaining wall, see "Road Plans"

DATE OF ESTIMATE	8-27-2008
BRIDGE REMOVAL	=
STRUCTURE DEPTH	= 3'-6"
LENGTH	= 163'-5 1/8"
WIDTH	= 12'-1" Lt & Rt
AREA	= 3950 SF
COST/ CFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= \$230
PRELIM SEISMIC RETROFIT	= \$461,000
TOTAL COST	= \$1,370,000

DIST	COUNTY	ROUTE	POST MILES TO TOTAL PROJECT
08	Sbd	10	8.20/33.43

SANBAG  
1170 W. 3rd St, 2nd Floor  
San Bernardino, CA 92410  
David Evans and Associates, Inc.  
1544 Eureka Road Suite 200  
Roseville, CA 95661

**RECEIVED**  
DEC 01 2008  
OFFICE OF SPECIAL FUNDED PROJECTS

DESIGNED BY	Kent Cordtz	DATE	9/12/08
DRAWN BY	Kyle Chiodo	DATE	9/12/08
CHECKED BY	Brian Hansen	DATE	9/12/08
APPROVED	Brian Hansen	DATE	9/12/08

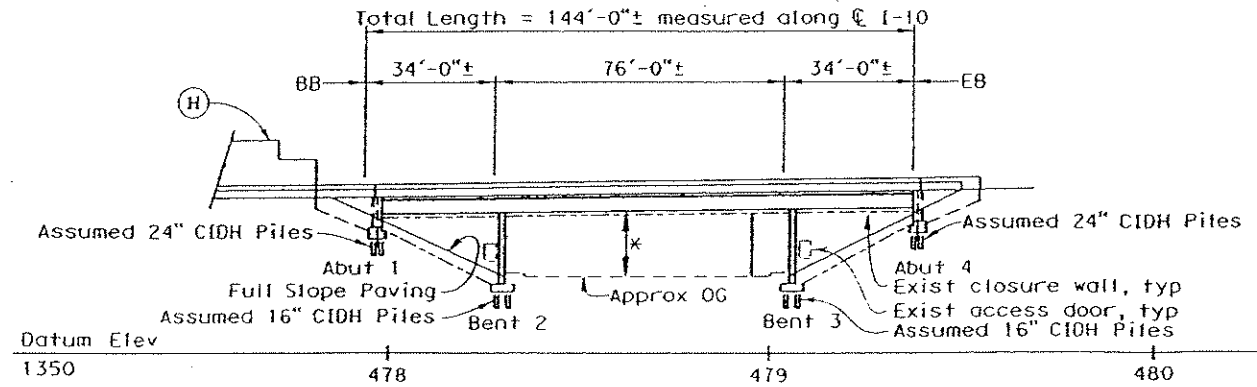
B. Hansen  
PROJECT ENGINEER

<b>PLANNING STUDY</b>	
<b>TEXAS STREET UC (WIDEN)</b>	
BRIDGE NO. 54-0583	CU
SCALE: AS SHOWN	EA OC2500

DATE OF ESTIMATE	9-12-08
BRIDGE REMOVAL	=
STRUCTURE DEPTH	= 3'-0"
LENGTH	= 144'-0"
WIDTH	= 11'-3" Lt & Rt
AREA	= 3240 SF
COST/CFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= \$335
TOTAL COST	= \$1,090,000

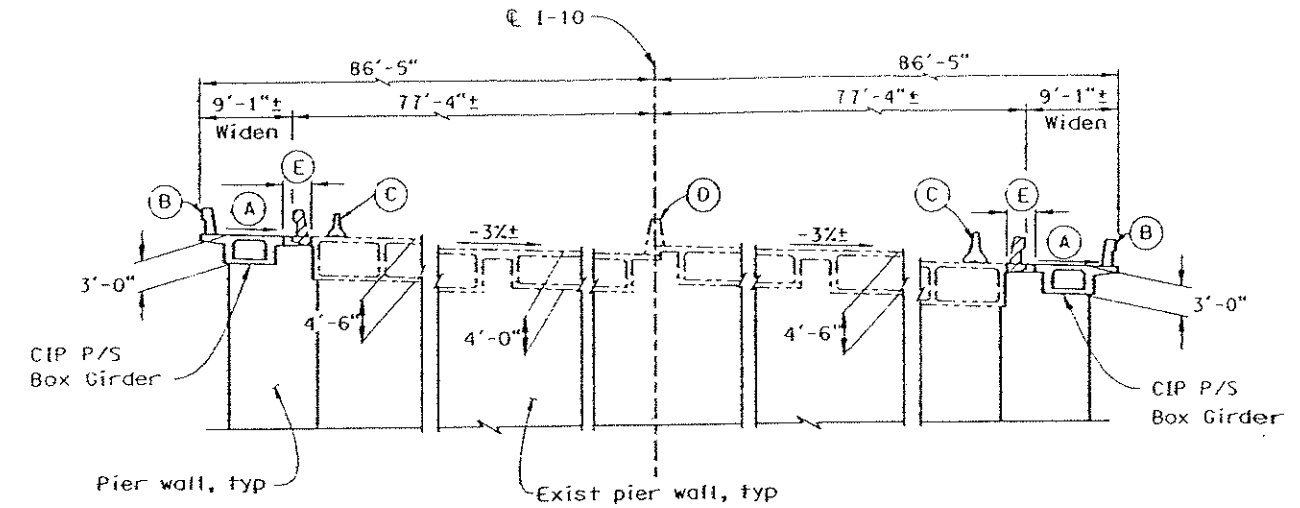
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	SBd	10	8.20/33.43

SANBAG  
1170 W. 3rd St, 2nd Floor  
San Bernardino, CA 92410  
David Evans and Associates, Inc.  
1544 Eureka Road Suite 200  
Roseville, CA 95661



\* Min vert clr = 15'-6" @ existing and 16'-9" @ widening

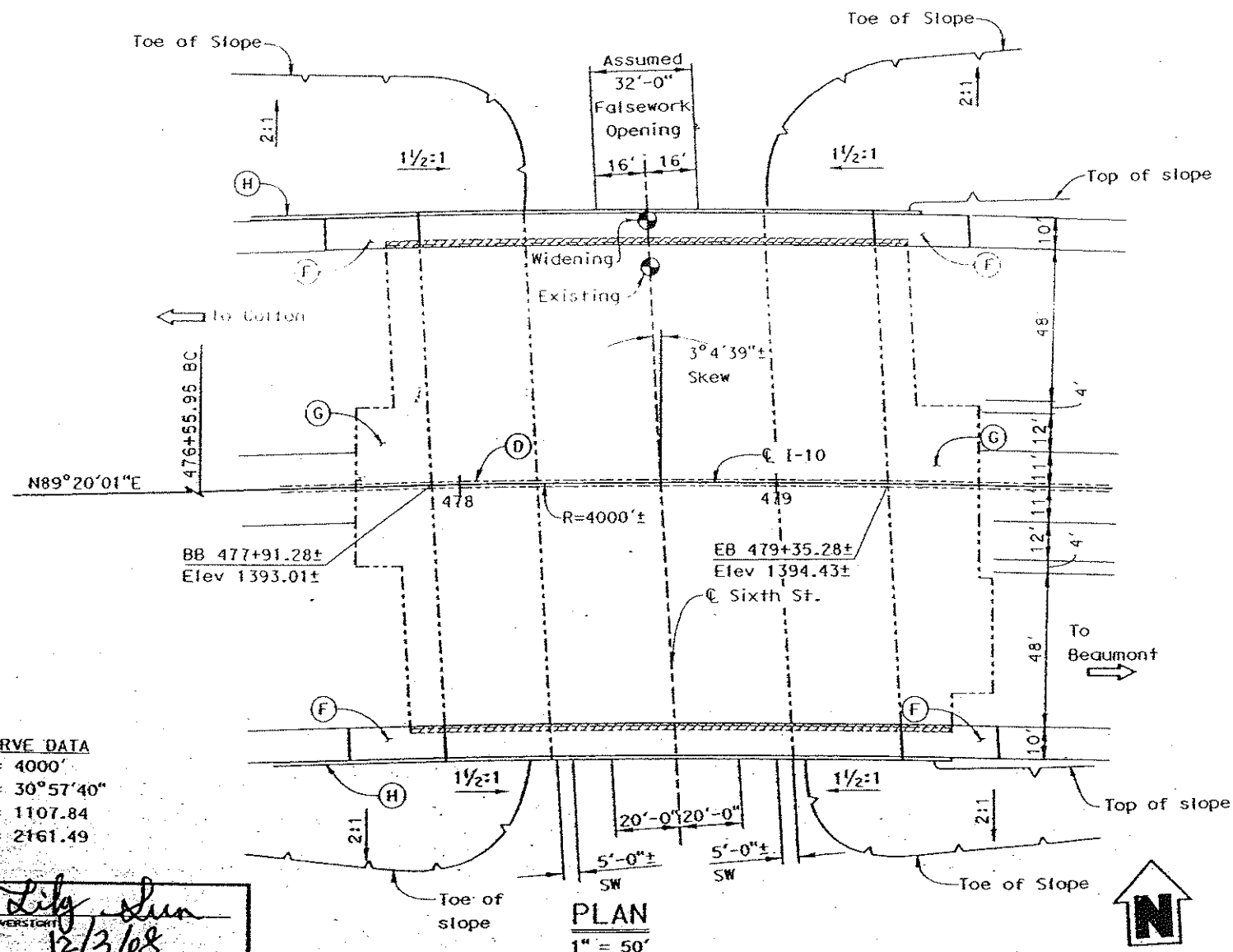
**ELEVATION**  
1" = 50'



Note:  
Traffic will pass through construction site (14'-6" min vertical sub-standard clearance available under falsework).

**TYPICAL SECTION**  
1" = 20'

- LEGEND:**
- Indicates point of min. vertical clearance
  - ▨ Limits of concrete removal
  - Denotes existing structure
  - (A) Match existing profile grade and superelevation
  - (B) Concrete Barrier Type 732 (Mod)
  - (C) Temporary Railing Type K
  - (D) Existing concrete barrier
  - (E) 3'-0" Closure pour
  - (F) Structure approach, type N(300)
  - (G) Existing structure approach
  - (H) Sound wall, see "Road Plans"



**CURVE DATA**  
R= 4000'  
Δ= 30°57'40"  
T= 1107.84  
L= 2161.49

**PLAN**  
1" = 50'

DESIGNED BY	Brian Hansen	DATE	9/12/08
DRAWN BY	Kyle Chiodo	DATE	9/12/08
CHECKED BY	Kent Cordtz	DATE	9/12/08
APPROVED	Brian Hansen	DATE	9/12/08

**B. Hansen**  
PROJECT ENGINEER

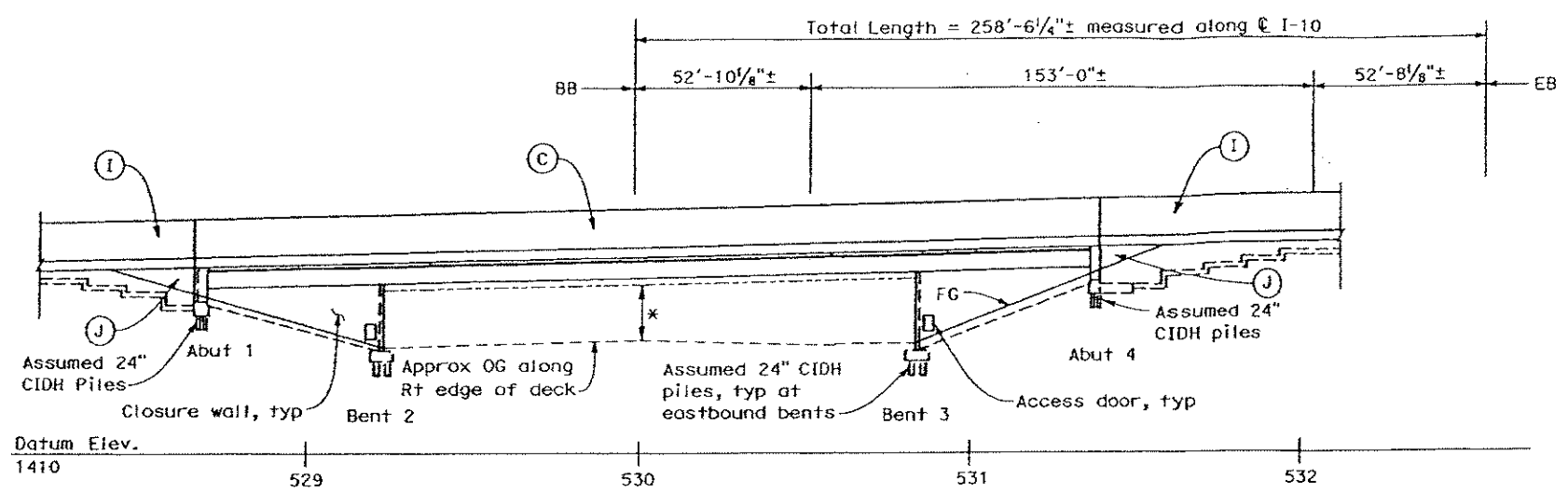
<b>PLANNING STUDY</b>	
<b>SIXTH STREET UC (WIDEN)</b>	
BRIDGE NO. 54-0579	CU
SCALE: AS SHOWN	EA 0C2500

TIME PLOTTED => \$TIME  
USERNAME => \$USER DATE PLOTTED => \$DATE

PREPARED FOR THE STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	Sbd	10	8.20/33.43

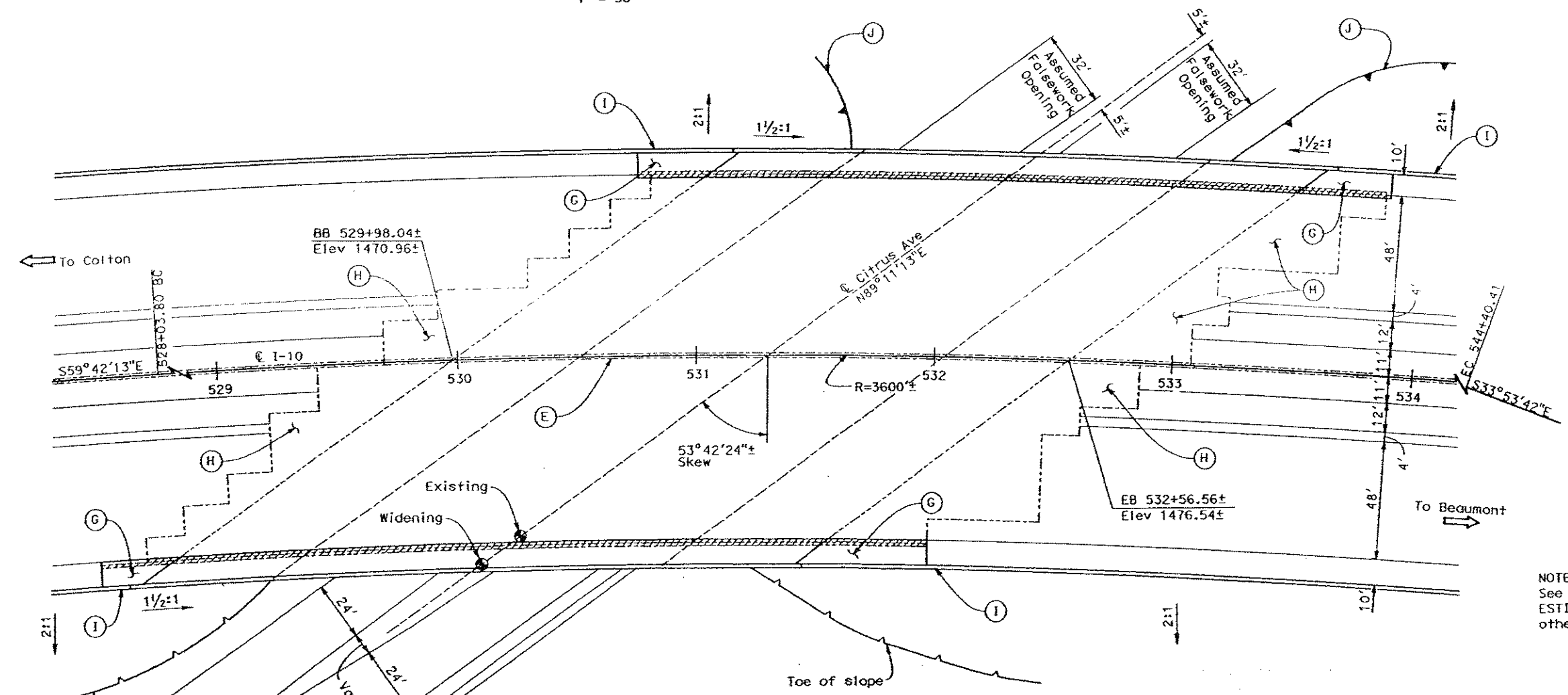
SANBAG  
 1170 W. 3rd St, 2nd Floor  
 San Bernardino, CA 92410  
 David Evans and Associates, Inc.  
 1544 Eureka Road Suite 200  
 Roseville, CA 95661



\* Min vert clr = 16'-1" @ existing and 18'-4" @ widening

Note:  
 Traffic will pass through construction site (15'-0" min vertical clearance required under falsework).

**ELEVATION**  
 1" = 50'



Curve Data

R = 3600'
Δ = 25°48'09"
T = 824.59'
L = 1621.22'

NOTE:  
 See Sheet 2 for TYPICAL SECTION, ESTIMATED COST, LEGEND and other notes.

Sheet 1 of 2

**PLAN**  
 1" = 50'



*Lily Sun*  
 DESIGN OVERSIGHT  
 1/27/09  
 SIGN OFF DATE

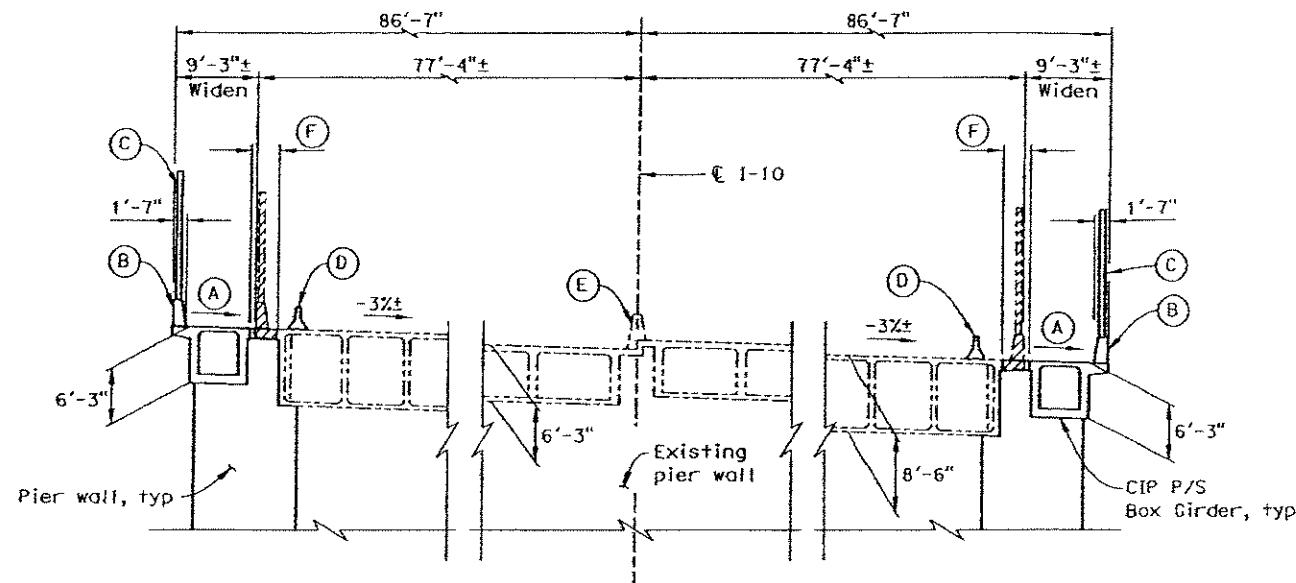
DESIGNED BY	Brian Hansen	DATE	9/26/08
DRAWN BY	Jerre Patton	DATE	9/26/08
CHECKED BY	Adrienne Dietrich	DATE	10/20/08
APPROVED	Brian Hansen	DATE	10/20/08

B. Hansen  
 PROJECT ENGINEER

<b>PLANNING STUDY</b>	
<b>CITRUS AVE UC (WIDEN)</b>	
BRIDGE NO. 54-0584	CU 08224
SCALE: AS SHOWN	EA 0C2500

TIME PLOTTED => DATE DATE PLOTTED => USER USERNAME => USER

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	SBd	10	8.20/33.43
SANBAG 1170 W. 3rd St, 2nd Floor San Bernardino, CA 92410			
David Evans and Associates, Inc. 1544 Eureka Road Suite 200 Roseville, CA 95661			



**TYPICAL SECTION**  
1" = 20'

DATE OF ESTIMATE	10-20-08
BRIDGE REMOVAL	=
STRUCTURE DEPTH	= 6'-3"
LENGTH	= 258'-6 1/4"
WIDTH	= 11'-5"
AREA	= 5903
COST/CFY INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= \$367
TOTAL COST	= \$2,170,000

**LEGEND:**

- Indicates point of Min vertical clearance
- ▨ Limits of concrete removal
- Denotes existing structure
- (A) Match existing profile grade and superelevation
- (B) Concrete Barrier Type 736 (Mod)
- (C) Sound wall - Masonry Block (H=14'-4")
- (D) Temporary Railing Type K
- (E) Existing concrete barrier
- (F) 3'-0" Closure pour
- (G) Structure approach, type N(300)
- (H) Existing structure approach
- (I) Sound wall, see "Road Plans"
- (J) Retaining wall, see "Road Plans"

NOTE:  
See Sheet 1 for PLAN and ELEVATION

Sheet 2 of 2

*Lily Ann*  
DESIGN OVERSIGHT  
1/27/09  
SIGN OFF DATE

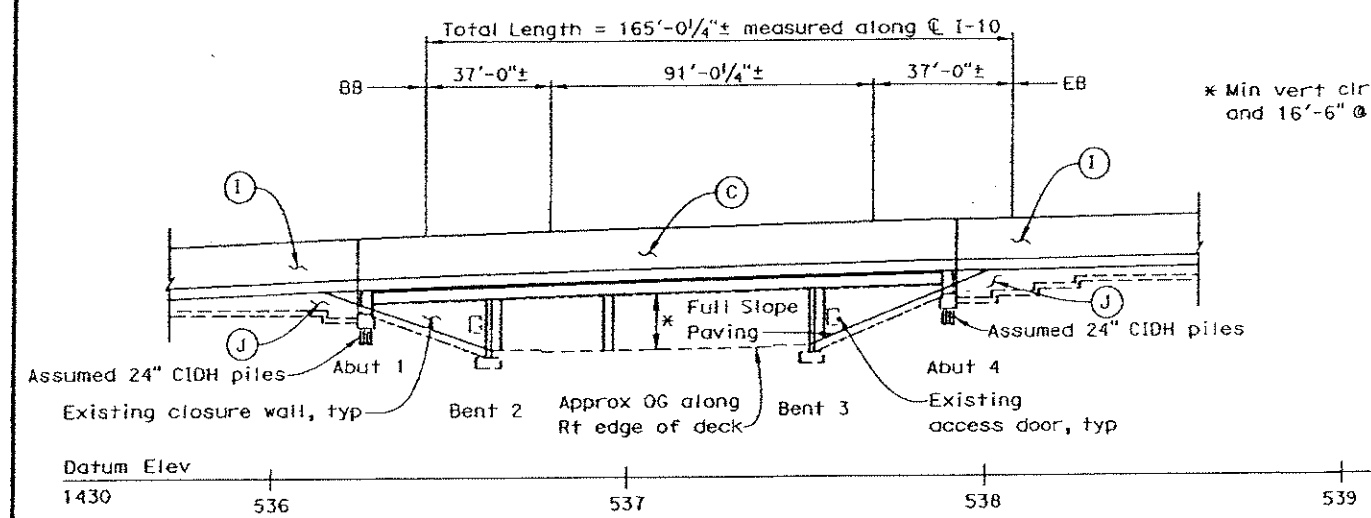
DESIGNED BY	Brian Hansen	DATE	9/26/08
DRAWN BY	Jerre Patton	DATE	9/26/08
CHECKED BY	Adrienne Dietrich	DATE	10/20/08
APPROVED	Brian Hansen	DATE	10/20/08

PLANNING STUDY	
CITRUS AVE UC (WIDEN)	
BRIDGE NO. 54-0584	CU 08224
SCALE: AS SHOWN	EA 0C2500

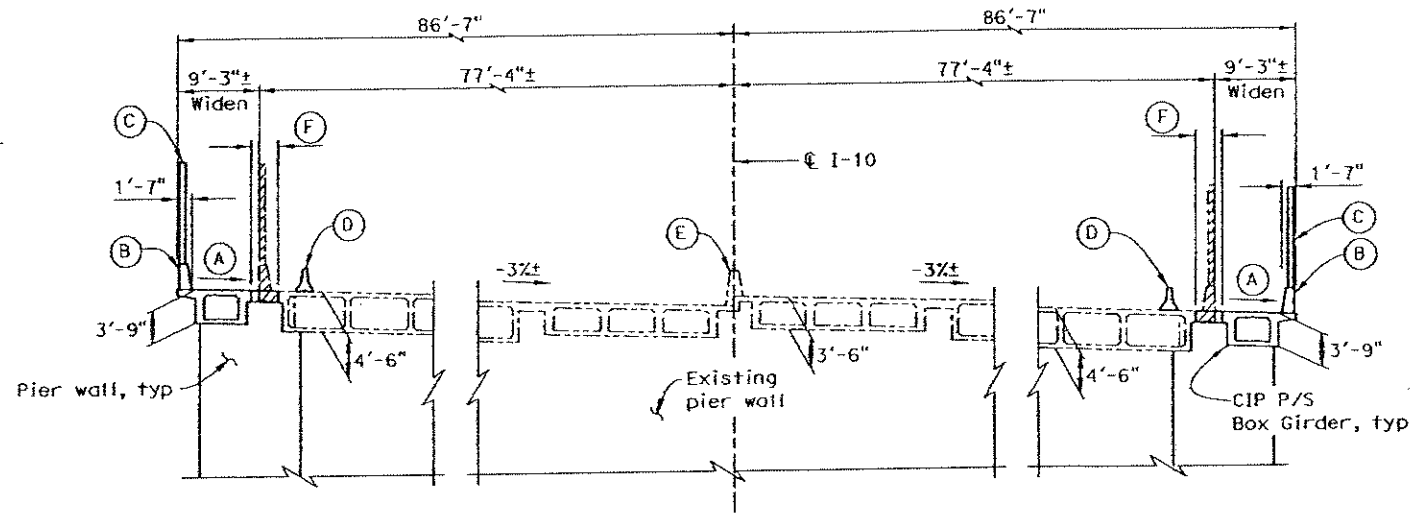
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	SBd	10	8.20/33.43

SANBAG  
1170 W. 3rd St, 2nd Floor  
San Bernardino, CA 92410  
David Evans and Associates, Inc.  
1544 Eureka Road Suite 200  
Roseville, CA 95661

DATE OF ESTIMATE	10/20/08
BRIDGE REMOVAL	=
STRUCTURE DEPTH	= 3'-9"
LENGTH	= 165'-0 1/4"
WIDTH	= 11'-5"
AREA	= 3768
COST/ CFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= \$315
TOTAL COST	= \$1,190,000



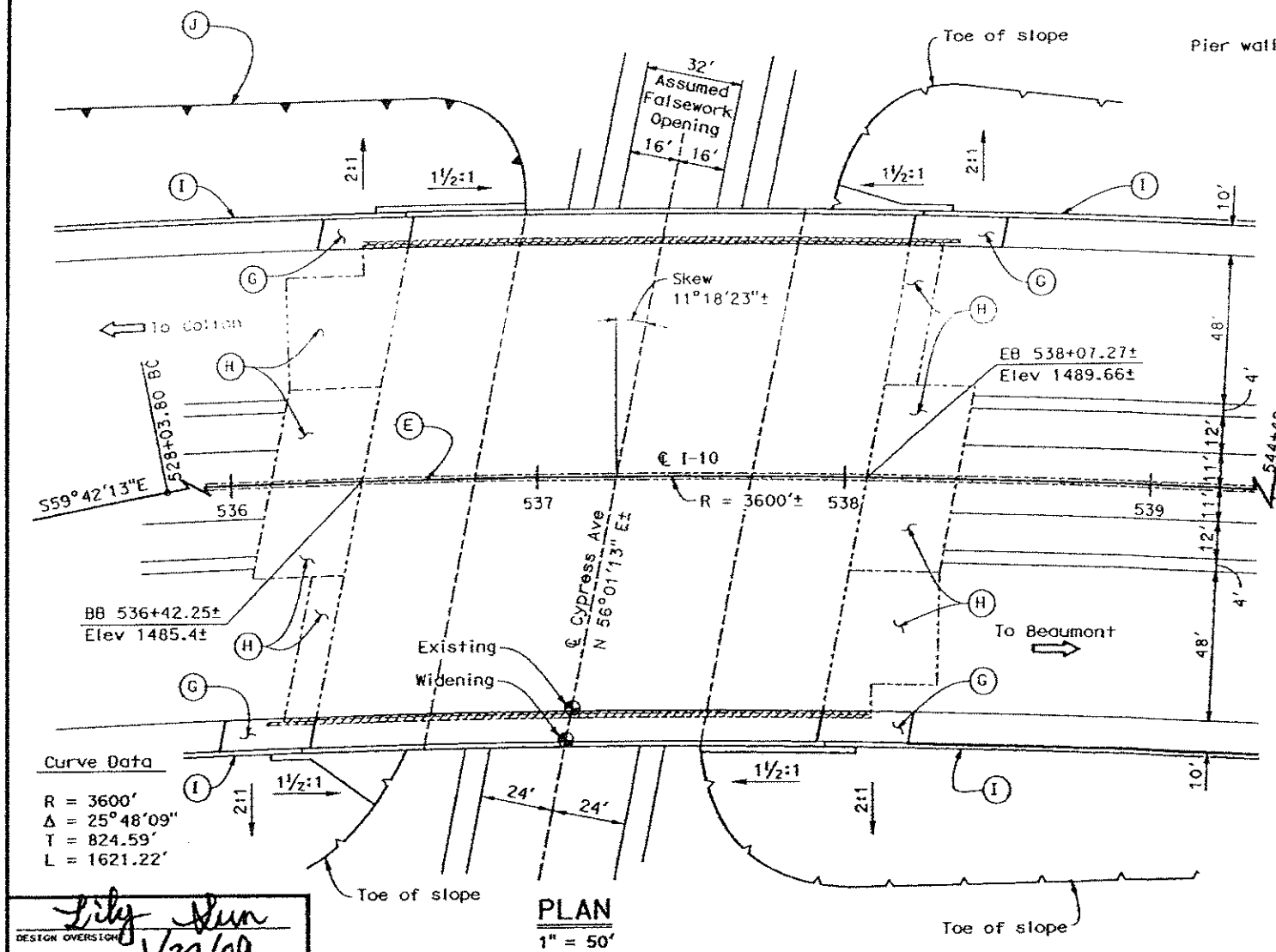
**ELEVATION**  
1" = 50'



**TYPICAL SECTION**  
1" = 20'

Note:  
Traffic will pass through construction site (14'-6" min vertical sub-standard clearance available under falsework).

- LEGEND:**
- ⊙ Indicates point of Min vertical clearance
  - ▨ Limits of concrete removal
  - Denotes existing structure
  - (A) Match existing profile grade and superelevation
  - (B) Concrete Barrier Type 736 (Mod)
  - (C) Sound wall - Masonry Block (H=14'-4")
  - (D) Temporary Railing Type K
  - (E) Existing concrete barrier
  - (F) 3'-0" Closure pour
  - (G) Structure approach, type N(300)
  - (H) Existing structure approach
  - (I) Sound wall, see "Road Plans"
  - (J) Retaining wall, see "Road Plans"



**PLAN**  
1" = 50'

**Curve Data**  
R = 3600'  
Δ = 25° 48' 09"  
T = 824.59'  
L = 1621.22'

DESIGN OVERSIGHT  
*Lily Sun*  
1/21/09

DESIGNED BY	Brian Hansen	DATE	10/15/08
DRAWN BY	Jerre Patton	DATE	10/15/08
CHECKED BY	Adrienne Dietrich	DATE	10/20/08
APPROVED	Brian Hansen	DATE	10/20/08

B. Hansen  
PROJECT ENGINEER

PLANNING STUDY	
CYPRESS AVE UC (WIDEN)	
BRIDGE NO. 54-0585	CU 08224
SCALE: AS SHOWN	EA 0C2500

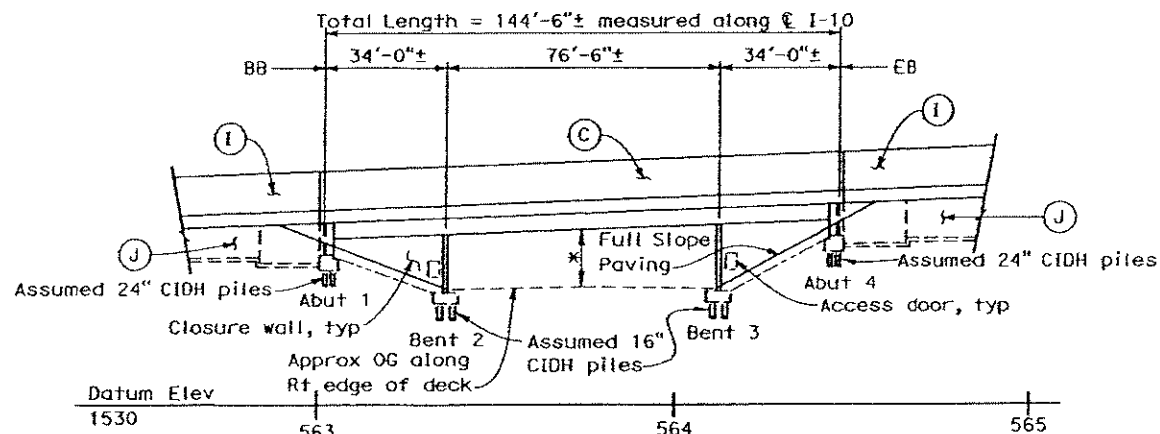
\* Min vert clr = 15'-6" @ existing  
and 16'-9" @ widening

DATE OF ESTIMATE	10-20-08
BRIDGE REMOVAL	=
STRUCTURE DEPTH	= 3'-0"
LENGTH	= 144'-6"
WIDTH	= 11'-5"
AREA	= 3300 SF
COST/ CFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= \$327
TOTAL COST	= \$1,080,000

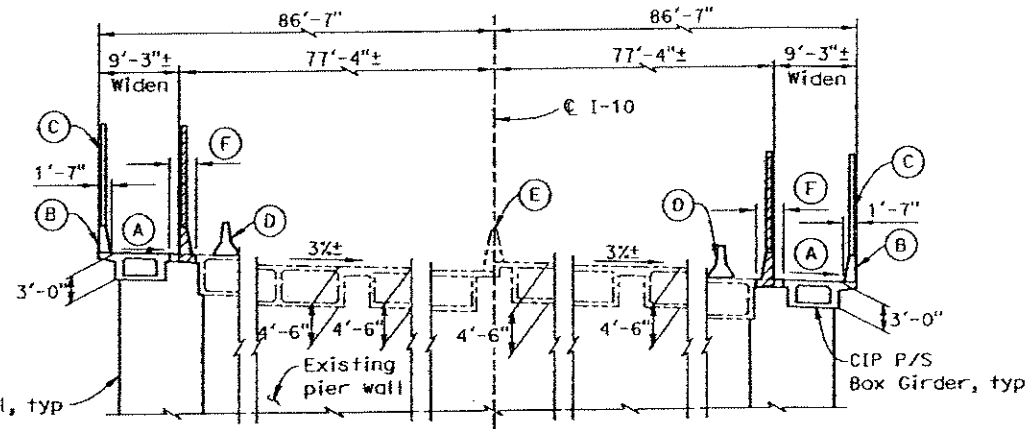
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	Sbd	10	8.20/33.43

SANBAG  
1170 W. 3rd St, 2nd Floor  
San Bernardino, CA 92410

David Evans and Associates, Inc.  
1544 Eureka Road Suite 200  
Roseville, CA 95661



**ELEVATION**  
1" = 50'

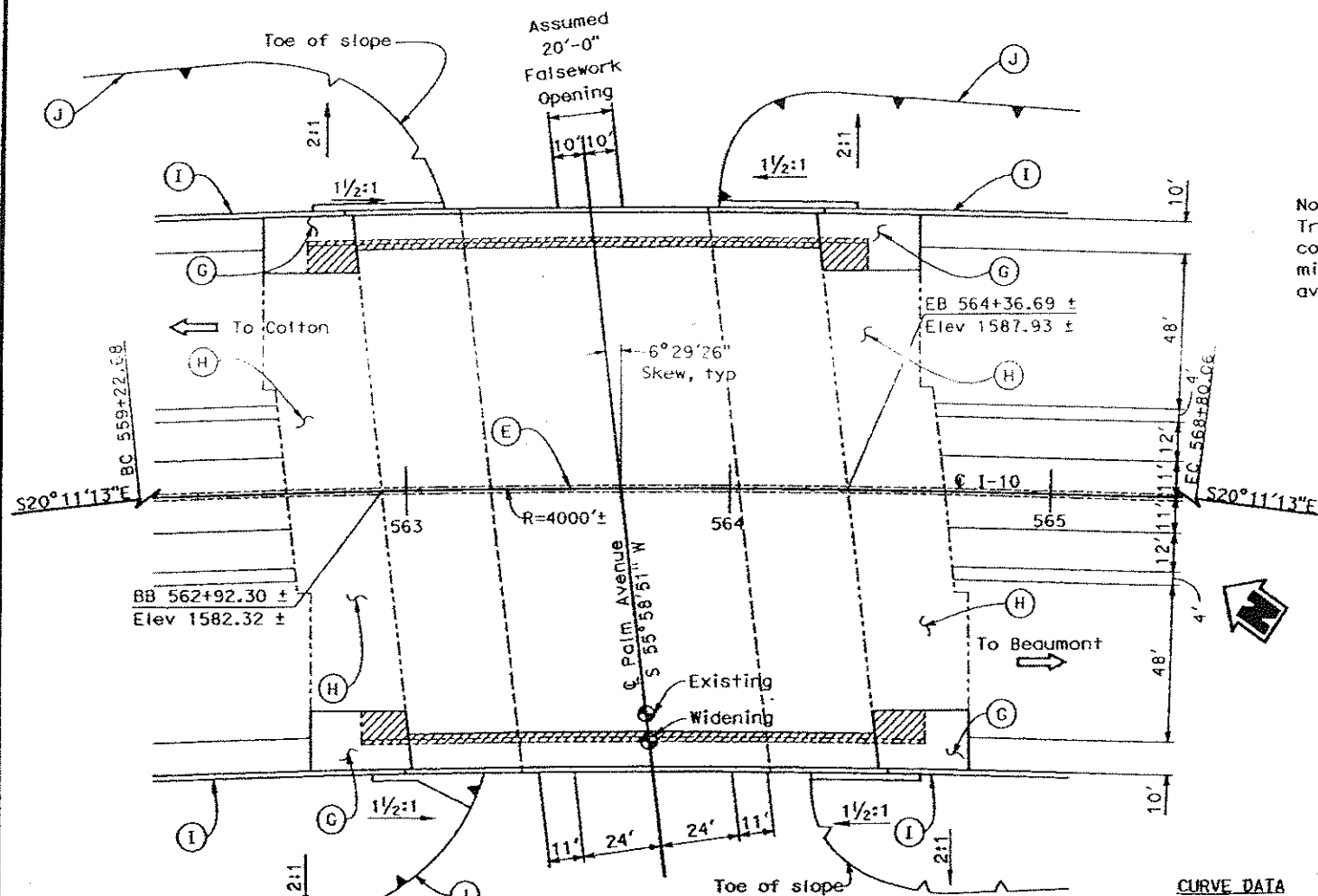


**TYPICAL SECTION**  
1" = 20'

Note:  
Traffic will pass through  
construction site (15'-0"  
min vertical clearance  
available under falsework).

**LEGEND:**

- ⊙ Indicates point of Min vertical clearance
- ▨ Limits of concrete removal
- Denotes existing structure
- (A) Match existing profile grade and superelevation
- (B) Concrete Barrier Type 736 (Mod)
- (C) Soundwall - Masonry Block (H=14'-4")
- (D) Temporary Railing Type K
- (E) Existing concrete barrier
- (F) 3'-0" Closure pour
- (G) Structure approach, type N(300)
- (H) Existing structure approach
- (I) Sound wall, see "Road Plans"
- (J) Retaining wall, see "Road Plans"



**PLAN**  
1" = 50'

**CURVE DATA**  
R=4000'  
Δ=13°42'59"  
T=481.09  
L=957.58

*Lily Sun*  
DESIGN OVERSIGHT  
SIGN OFF DATE 1/27/09

DESIGNED BY	Bryan Carter	DATE	10/20/08
DRAWN BY	Kyle Chiodo	DATE	10/20/08
CHECKED BY	Brian Hansen	DATE	10/20/08
APPROVED	Brian Hansen	DATE	10/20/08

B. Hansen  
PROJECT ENGINEER

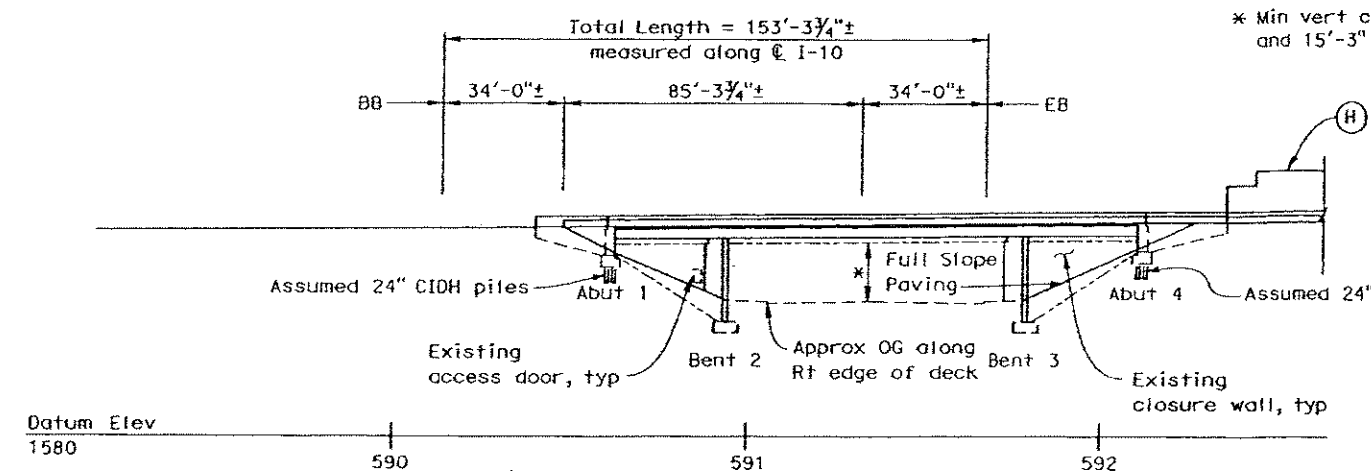
PLANNING STUDY	
HIGHLAND AVE UC (WIDEN)	
BRIDGE NO. 54-0587	CU 08224
SCALE: AS SHOWN	EA 0C2500

PREPARED FOR THE STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

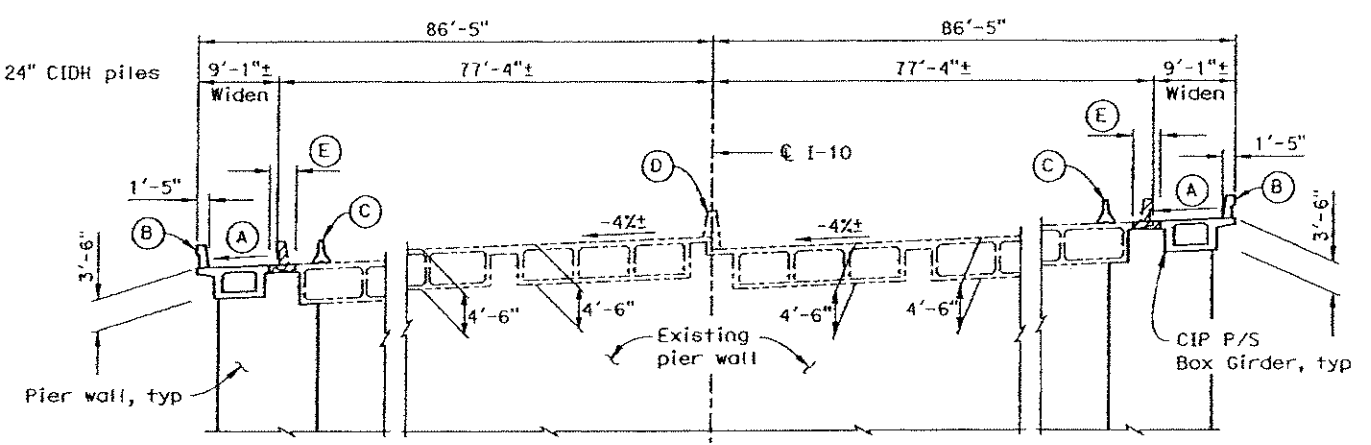
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	SBd	10	8.20/33.43

SANBAG  
 1170 W. 3rd St, 2nd Floor  
 San Bernardino, CA 92410  
 David Evans and Associates, Inc.  
 1544 Eureka Road Suite 200  
 Roseville, CA 95661

DATE OF ESTIMATE	10/20/08
BRIDGE REMOVAL	=
STRUCTURE DEPTH	= 3'-6"
LENGTH	= 153'-3 3/4"
WIDTH	= 11'-3"
AREA	= 3450
COST/CFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= \$304
TOTAL COST	= \$1,050,000



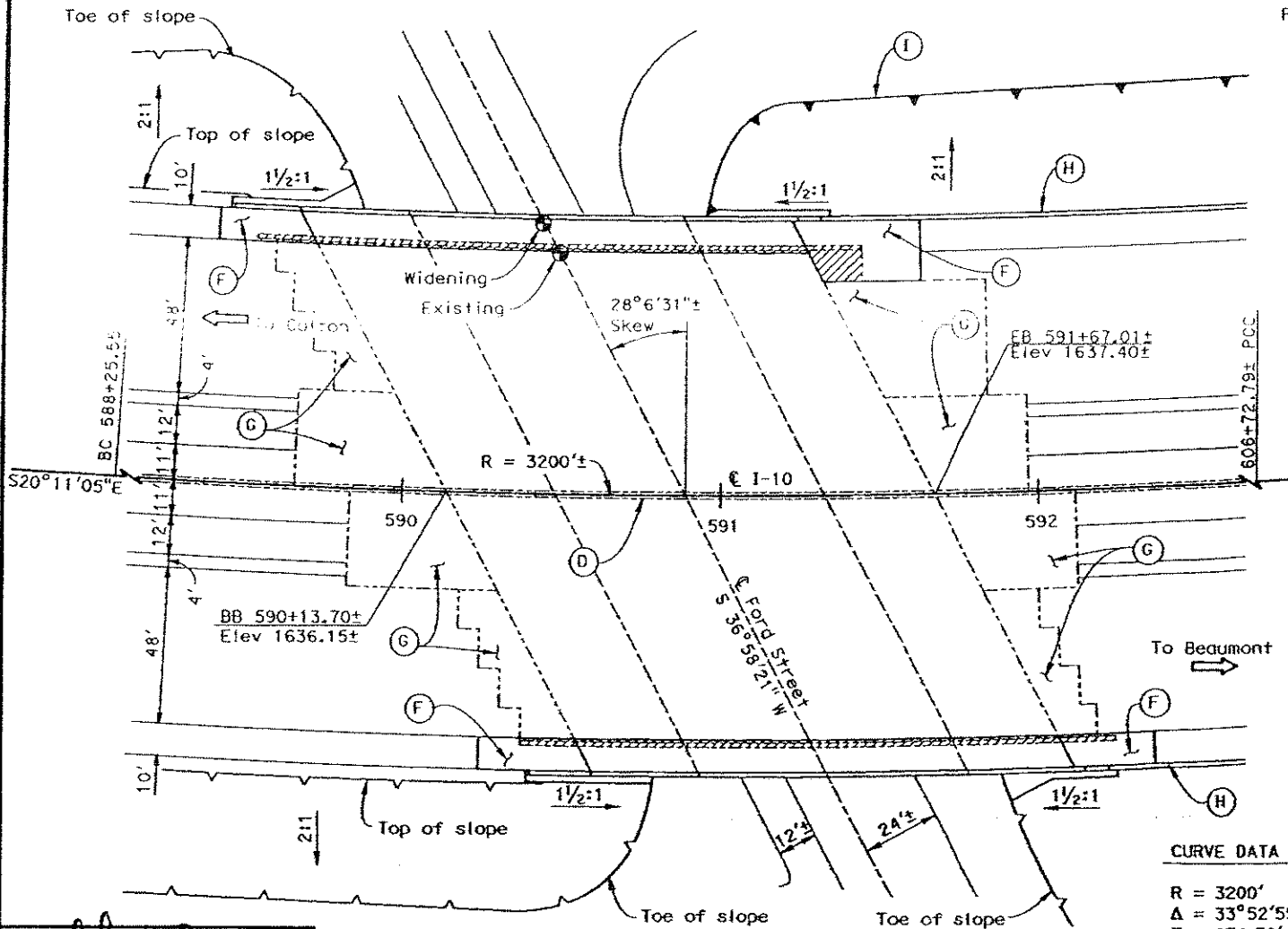
**ELEVATION**  
1" = 50'



**TYPICAL SECTION**  
1" = 20'

Note:  
 Traffic will not pass through construction site. Detour required for traffic on Ford Street.

- LEGEND:**
- Indicates point of Min vertical clearance
  - ▨ Limits of concrete removal
  - Denotes existing structure
  - (A) Match existing profile grade and superelevation
  - (B) Concrete Barrier Type 732
  - (C) Temporary Railing Type K
  - (D) Existing concrete barrier
  - (E) 3'-0" Closure pour
  - (F) Structure approach, type N(30D)
  - (G) Existing structure approach
  - (H) Sound wall, see "Road Plans"
  - (I) Retaining wall, see "Road Plans"



**CURVE DATA**  
 R = 3200'  
 Δ = 33°52'55"  
 T = 974.78'  
 L = 1892.37'

**PLAN**  
1" = 50'

DESIGN OVERSIGHT  
*Lily Sun*  
 SIGN OFF DATE 1/27/09

DESIGNED BY	Brian Hansen	DATE	10/20/08
DRAWN BY	Jerre Patton	DATE	10/20/08
CHECKED BY	Adrienne Dietrich	DATE	10/20/08
APPROVED	Brian Hansen	DATE	10/20/08

<b>PLANNING STUDY</b>	
<b>FORD STREET UC (WIDEN)</b>	
BRIDGE NO. 54-0588	CU 08224
SCALE: AS SHOWN	EA 0C2500

TIME PLOTTED => #TIME  
 DATE PLOTTED => #DATE  
 USERNAME => #USER



PREPARED FOR THE STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	SBd	10	8.20/33.43

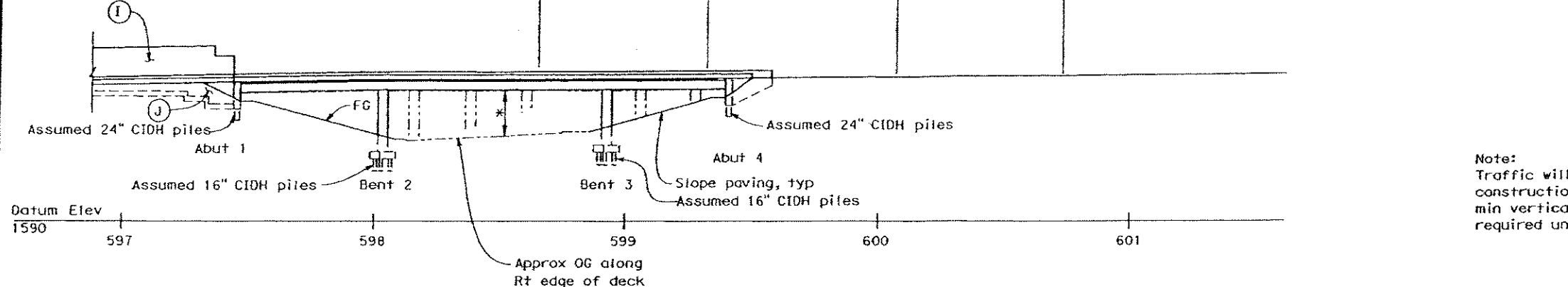
SANBAG  
1170 W. 3rd St, 2nd Floor  
San Bernardino, CA 92410

David Evans and Associates, Inc.  
1544 Eureka Road Suite 200  
Roseville, CA 95661

\* Min vert clr = 15'-1" @ existing and 15'-0" @ westbound widening and 19'-3" @ eastbound widening

Total Length = 207'-11 1/4"± measured along C I-10

BB 66'-7"± 74'-9 1/2"± 66'-6 3/4"± EB

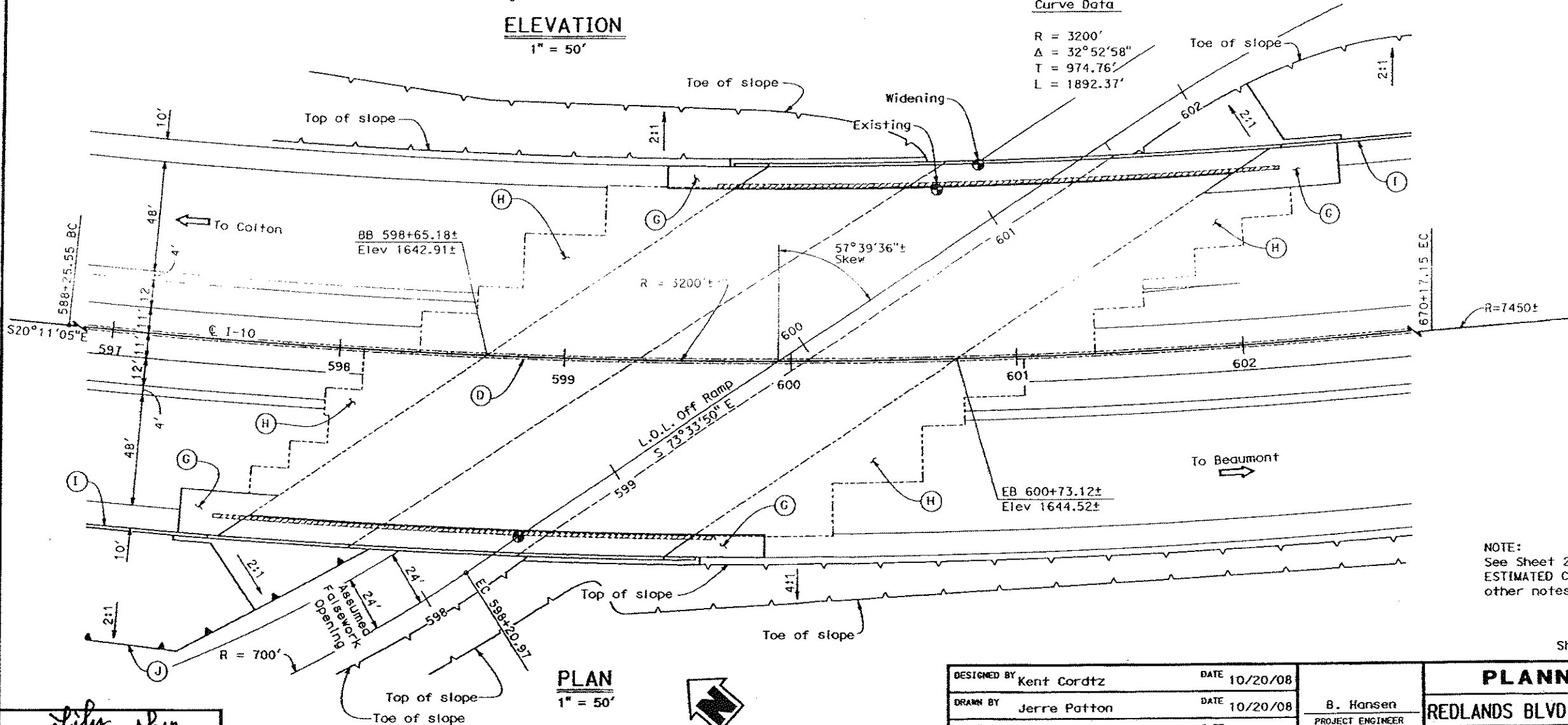


Note:  
Traffic will pass through construction site (15'-0" min vertical clearance required under falsework).

**ELEVATION**  
1" = 50'

**Curve Data**

R = 3200'  
Δ = 32°52'58"  
T = 974.76'  
L = 1892.37'



**PLAN**  
1" = 50'

NOTE:  
See Sheet 2 for TYPICAL SECTION, ESTIMATED COST, LEGEND and other notes.

Sheet 1 of 2

DESIGN OVERSIGHT  
SIGN OFF DATE  
12/27/09

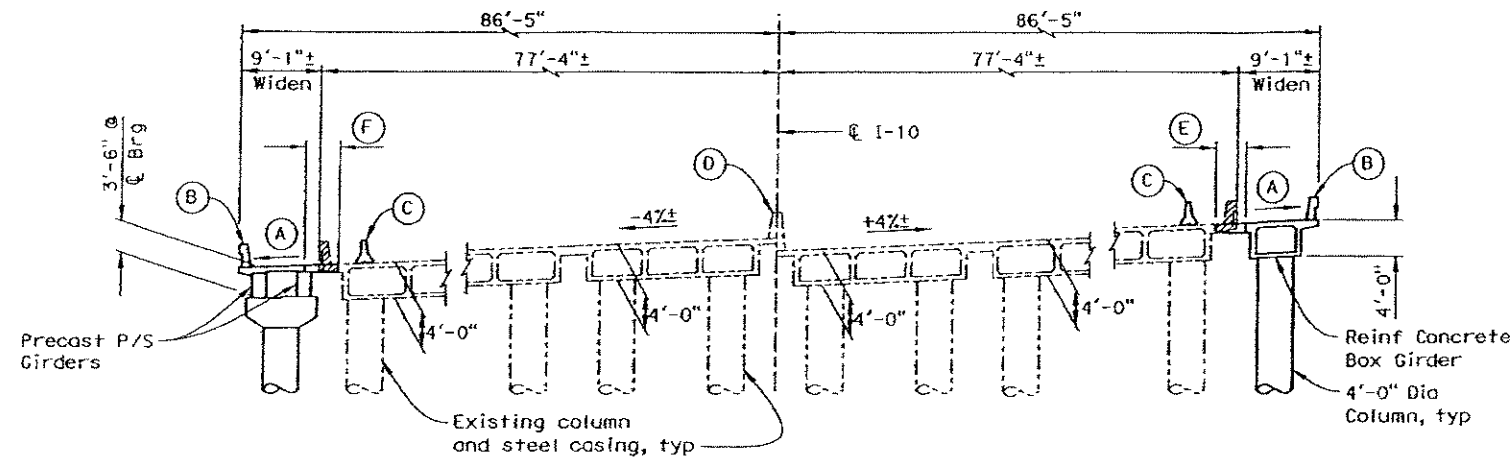
DESIGNED BY	Kent Cordtz	DATE	10/20/08
DRAWN BY	Jerre Patton	DATE	10/20/08
CHECKED BY	Brian Hansen	DATE	10/20/08
APPROVED	Brian Hansen	DATE	10/20/08

B. Hansen  
PROJECT ENGINEER

PLANNING STUDY	
REDLANDS BLVD OFF-RAMP UC (WIDEN)	
BRIDGE NO. 54-0589	CU 08224
SCALE: As Shown	EA 0C2500

TIME PLOTTED => \$TIME  
DATE PLOTTED => \$DATE  
USERNAME => \$USER

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT
08	Sbd	10	8.20/33.43
SANBAG 1170 W. 3rd St, 2nd Floor San Bernardino, CA 92410			
David Evans and Associates, Inc. 1544 Eureka Road Suite 200 Roseville, CA 95661			



**TYPICAL SECTION**  
1" = 20'

DATE OF ESTIMATE	10/20/08
BRIDGE REMOVAL	=
STRUCTURE DEPTH	= 3'-6" Lt, 4'-0" Rt
LENGTH	= 207'-11 1/4"
WIDTH	= 11'-3"
AREA	= 4701
COST/ CFT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY	= \$311
TOTAL COST	= \$1,460,000

**LEGEND:**

- ⊙ Indicates point of Min vertical clearance
- ▨ Limits of concrete removal
- Denotes existing structure
- (A) Match existing profile grade and superelevation
- (B) Concrete Barrier Type 732
- (C) Temporary Railing Type K
- (D) Existing concrete barrier
- (E) 3'-0" Closure pour
- (F) 3'-9" Closure pour
- (G) Structure approach, type N(300)
- (H) Existing structure approach
- (I) Soundwall, see "Road Plans"
- (J) Retaining wall, see "Road Plans"

NOTE:  
See Sheet 1 for PLAN and ELEVATION.

Sheet 2 of 2

*Lily Chen*  
DESIGN OVERSIGHT  
1/27/09  
SIGN OFF DATE

DESIGNED BY	Kent Cordtz	DATE	10/20/08
DRAWN BY	Jerre Patton	DATE	10/20/08
CHECKED BY	Brian Hansen	DATE	10/20/08
APPROVED	Brian Hansen	DATE	10/20/08

PLANNING STUDY	
REDLANDS BLVD OFF-RAMP UC (WIDEN)	
BRIDGE NO. 54-0589	CU 08224
SCALE: As Shown	EA 0C2500