

AS BUILT

Resident Engineers: Chris Kubasek & Harmid Abedzadeh
Inspectors : Greg Cunningham & Mike Nguyen
Contractor : MCM Construction, Inc.
Completion Date : September 17th, 2008

FUNDED BY:
COMMUNITY FACILITIES
DISTRICT 2002-1 (LADERA)

PREPARED FOR LADERA

APPROVALS

DEVIATION FROM STANDARDS

APPROVED:

RESOURCES & DEVELOPMENT MANAGEMENT DEPARTMENT

PREPARED BY

<u>INDEX OF SHEETS</u>	
SHEET	DESCRIPTION
1	TITLE SHEET
2	KEY MAP & SURVEY CONTROL SCHEMATIC
3	TYPICAL SECTIONS
4-7	PLAN AND PROFILE
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<u>INDEX OF STANDARD PLANS</u>	
ROAD - STANDARD PLANS, COUNTY OF ORANGE - RDMD	
- A.P.W.A STANDARD PLANS	
- CALTRANS STANDARD PLANS	
BRIDGE - SEE SHEET 43	
CALTRANS STANDARD PLANS (DUAL UNITS) DATED JULY 2002	
<u>ABBREVIATIONS</u>	
AC - ASPHALT CONCRETE	PVC - POINT OF VERTICAL CURVE
BC - BEGIN CURVE	PVI - POINT OF VERTICAL INTERSECTION
CB - CATCH BASIN	PVT - POINT OF VERTICAL TANGENT
EC - END CURVE	RMD - RESOURCES AND DEVELOPMENT
CC - PORTLAND CEMENT CONCRETE	MANAGEMENT DEPARTMENT
CCC - POINT OF COMPOUND CURVE	STA - STATION

BENCH MARK:

BASIS OF BEARINGS:

[illegible]

W. O. NO. EC28121
DWG. NO. _____

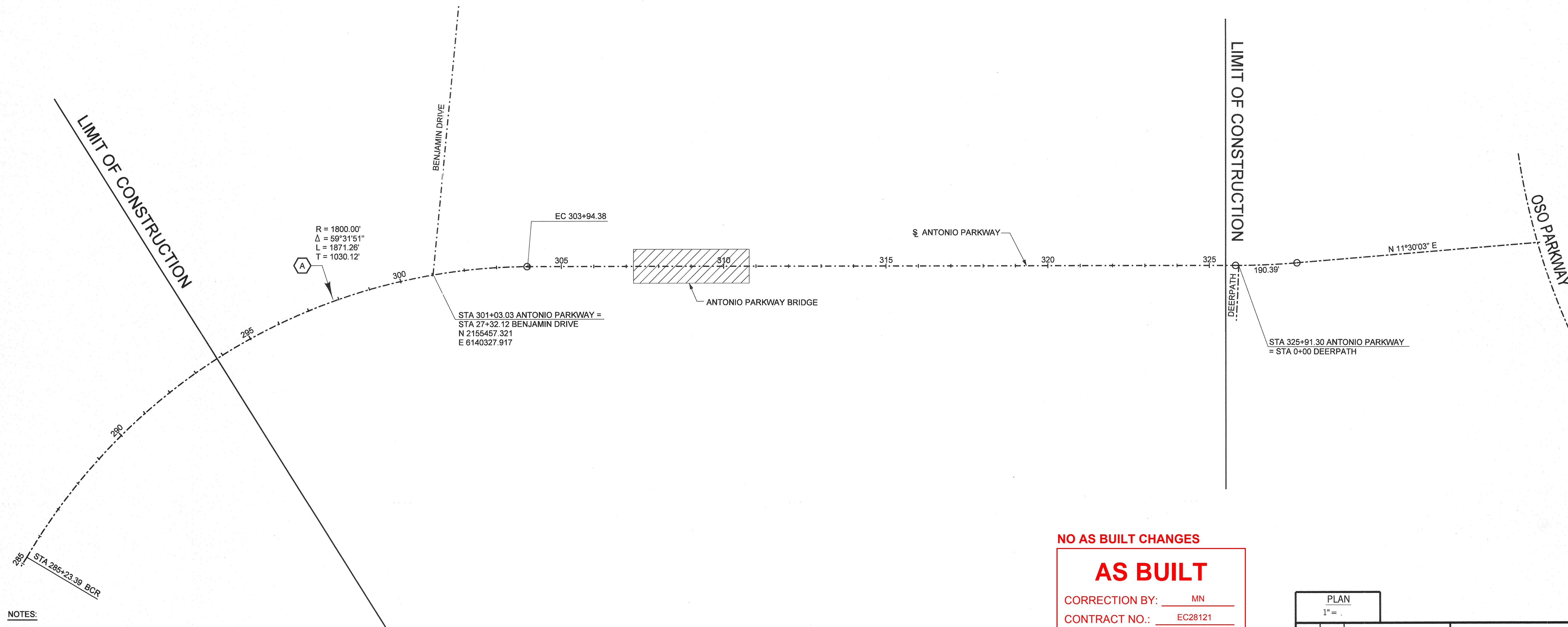
BASIS OF BEARINGS

THE BEARINGS SHOWN HEREON ARE BASED ON THE BEARING BETWEEN OCS HORIZONTAL CONTROL STATION GPS NO. 1417 AND STATION GPS NO. 1431, BEING N°45 51'18"W PER RECORDS ON THE FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.

DATUM STATEMENT

COORDINATES SHOWN ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM (CCS83) ZONE VI, 1991.35 EPOCH ADJUSTMENT

ALL DISTANCES SHOWN ARE GROUND, UNLESS OTHERWISE NOTED.



- NOTES:
- HORIZONTAL CONTROL FOR MAPPING IS BASED ON COUNTY OF ORANGE OCS GPS CONTROL CCS83, ZONE VI, 1991.35 EPOCH ADJUSTMENT WITH CONTROL STATIONS NUMBERED 1417 AND 1431 BEING UTILIZED AS PRIMARY BASE CONTROL.
 - VERTICAL CONTROL FOR MAPPING IS BASED ON COUNTY OF ORANGE NGVD29 DATUM, OCS 1995 ADJUSTMENT UTILIZING BENCH MARK NUMBER 3BB-3688, ELEV. 478.775'.
 - SURVEY DATA PROVIDED BY HUITT-ZOLLARS INC. REFERENCE THE ANTONIO PARKWAY CENTELINE CONTROL ON FILE AT HUITT-ZOLLARS (JOB NO. 10-0367-50) FOR MORE INFORMATION
 - SURVEY DATA WAS PROVIDED IN IMPERIAL UNITS.

NO AS BUILT CHANGES

AS BUILT

CORRECTION BY: MN
CONTRACT NO.: EC28121
DATE: 12/30/2009

PLANS PREPARED BY: HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

PLAN 1" = .		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
		ANTONIO PARKWAY WILDLIFE IMPROVEMENTS PLANS	
		KEYMAP AND SURVEY CONTROL SCHEMATIC	
DESIGNED: E. GONDO		SHEET 2 OF 72	
DRAWN: N. BUNIA		CHECKED: S. STROH	
SCALE: AS SHOWN		DATE: 11/18/05	
DATE: 10/31/06		DRAWING NO. xxx	

PREPARED UNDER RESPONSIBLE CHARGE OF:
STEVEN B. STROH
REGISTERED PROFESSIONAL ENGINEER
NO. C 59687
EXP. 12-31-07
STATE OF CALIFORNIA
10/31/06

Date Plotted: 27 October, 2006 01:23

File Name: J:\34092\CADD\Hwy\Sheets\surveycontrol.dgn
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Border sheet last modified 05-Nov-1999

CONSTRUCTION NOTES

FOR TYPICAL SECTION, PLAN & PROFILE

- 1

CONSTRUCT P.C.C. CURB & GUTTER TYPE A2-8 PER RDMD STD. PLAN 120-0-OC.
- 2

CONSTRUT P.C.C. CURB & GUTTER TYPE A3-8 PER RDMD STD. PLAN 120-0-OC.
- 3

CONSTRUCT P.C.C. CURB & GUTTER TYPE A2-8, W=12", PER RDMD STD. PLAN 120-0-OC.
- 4

CONSTRUT P.C.C. CURB & GUTTER TYPE A3-8, W=12", PER RDMD STD. PLAN 120-0-OC.
- 5

CONSTRUCT 14" A.C. PER RDMD MATERIALS LAB RECOMMENDATIONS
- 6

CONSTRUCT P.C.C. SIDEWALK PER RDMD STD. PLAN 1205.
- 7

REMOVE EXISTING CURB & GUTTER.
- 8

CONSTRUCT 24" RCP
- 9

COLD PLANE 2" AND RESURFACE AC PAVEMENT 2" MINIMUM
- 10

TERRACE DRAIN PER RDMD STD. PLAN 1321
- 11

BENCH FILL OVER SLOPE PER RDMD STD. PLAN 1322
- 12

CONSTRUCT PATTERN-STAMPED MEDIAN PAVING PER RDMD STD. PLAN 1807
STA 305+00 TO 325+48
- 13

REMOVE EXISTING AC DIKE
- 14

CONSTRUCT MEDIAN TAPER PER RDMD STD. 140-1-0C
- 15

CONCRETE BARRIER (TYPE 25B) SEE SHEET 63 FOR DETAIL
- 16

REMOVE ASPHALT CONCRETE SURFACING
- 17

EXISTING OAK TREE PROTECT-IN-PLACE
- 18

EXISTING DRAINAGE FEATURE PROTECT-IN-PLACE
- 19

INSTALL 2" I.C. CONDUIT AND PULL ROPE WITH #3 1/2 P.B. @ 300'
STA 302+06 TO 322+00
- 20

REMOVE EXISTING PILASTERS
- 21

10' TRANSITION, 3 TO APPROACH SLAB
- 22

CONCRETE MEDIAN. SEE SHEET 70 BRIDGE MEDIAN DETAIL
- 23

REMOVE TREE
- 24

REMOVE EXISTING TERRACE DRAIN

FOR DRAINAGE PLANS

- 31

PROTECT IN PLACE EXISTING 8" PVC
- 32

PROTECT IN PLACE EXISTING CB
- 33

INSTALL 8" PVC
- 34

INSTALL MEDIAN GRATE INLET, SEE DETAIL A, SHT D-5
- 35

REMOVE EXIST PVC PIPE AND CB'S
- 36

TOP OF CURB, SEE L-SHEETS
- 37

INSTALL MODIFIED LOCAL DEPRESSION. SEE DETAIL, SHEET D-5.
- 38

INSTALL SLOTTED DRAIN. SEE DETAILS ON D-6
- 39

INSTALL 18" RCP
- 40

CONSTRUCT INLET TYPE II PER R.D.M.D. STD PLAN 1302
- 41

CONSTRUCT JUNCTION STRUCTURE TYPE I PER R.D.M.D. STD PLAN 1310
(FIELD VERIFY H)
- 42

REMOVE EXIST CB
- 43

INSTALL MEDIAN GRATE INLET, SEE DETAIL B, SHT D-5
- 44

CONSTRUCT MODIFIED TYPE II INLET WITH WATER QUALITY
EQUIPMENT PER DETAIL ON SHEET D-7
- 45

INSTALL 18" CSP (10 GAGE) WITH 10 GAGE TAPERED SPACER
- 46

INSTALL 24" DIA RCP
- 47

INSTALL 24" DIA RCP 90° ELL (R=15')
- 48

PROTECT-IN-PLACE EXIST TERRACE DRAIN
- 49

REMOVE EXISTING TERRACE DRAIN
- 50

REMOVE INTERFERING PORTION OF EXISTING DOWN DRAIN. CUT TO CLEAN LINE.
- 51

CONSTRUCT RIP RAP SLOPE PROTECTION PER DETAIL ON DWG D-5
- 52

CONSTRUCT UNDERMEDIAN DRAIN PER A.P.W.A. STD PLAN 151, TYPE 2 INLET, S=12"; B=4"
- 53

CONSTRUCT ENERGY DISIPATOR PER A.P.W.A. STD PLAN 384-1, W=6'
- 54

CONSTRUCT CONCRETE COLLAR PER R.D.M.D. STD PLAN 1317
- 55

CONSTRUCT CONCRETE PIPE ANCHOR PER R.D.M.D. STD PLAN 1333
- 56

CONSTRUCT MODIFIED TYPE II INLET WITH WATER QUALITY EQUIPMENT
AND REVERSE OUTLET, PER DETAIL ON SHEET D-7
- 57

CONSTRUCT VELOCITY CONTROL RINGS AT 12' O.C. PER A.P.W.A STD PLAN 383-1. H=3"

FOR TRAFFIC SIGNAL MODIFICATION PLAN

- 61

INSTALL 2" CONDUIT AND NO.6 PULLBOXES TO
OSO PKWY, WITH 300' MAXIMUM SPACING BETWEEN PULLBOXES
- 62

ABANDON EXISTING LOOP. INSTALL NEW DETECTORS AS SHOWN.
- 63

INSTALL ADDITIONAL ADVANCE LOOP AND CONNECT TO EXISTING DLC SPLICE AT PB.
- 64

INSTALL 12 PR#22 IC 2" CONDUIT PULL CABLE INTO EXIST CONTROLLER CABINET AT
OSO PKWY. APPROXIMATE DISTANCE IS 3400' BETWEEN CONTROLLERS
- 65

RELOCATE EXISTING FLASHING BEACON.
- 66

EXIST CONTROLLER CABINET. PROVIDE AND INSTALL DETECTOR UNITS
AS REQUIRED FOR NEW DETECTION ZONES. MODIFY CABINET AS REQUIRED
FOR NEW DETECTOR OPERATIONS.
- 67

PROTECT IN PLACE ALL EXISTING LOOPS.

FOR STAGE CONSTRUCTION TRAFFIC CONTROL PLAN

- 68

SANDBLAST CONFLICTING STRIPING
- 69

PAINT

FOR SRIPING AND SIGNING PLAN

- 71

ALL WORK AND MATERIAL SHALL CONFORM TO
THE STATE STANDARD PLANS AND SPECIFICATIONS
DATED JULY 2002 AND THE CURRENT TRAFFIC MANUAL.
- 72

PAINT 6" WHITE BIKE LANE LINE PER DETAIL 39.
- 73

PAINT 4" WHITE LANE LINE PER DETAIL 9.
- 74

INSTALL LEFT EDGE LINE PER DETAIL 26.
- 75

PAINT 50' SOLID 4" WHITE WITH TYPE G RPM AT END POINTS.
- 76

PAINT 8" WHITE PER DETAIL 38.
- 77

PAINT 4" WHITE PER DETAIL 27B.
- 78

PAINT 6" WHITE BIKE LANE LINE PER DETAIL 39A.
- 79

INSTALL DETAIL 28 WITH RPM INSTALLED OVER THE STRIPING PER DETAIL 30.
- 80

REMOVE CONFLICTING STRIPING BY SANDBALSTING
- 81

INSTALL MEDIAL NOSE TREATMENT PER DETAIL SEE SHEET S-2.
- 82

INSTALL TYPE IV ARROW MARKING.

FOR LIGHTING PLAN

- 91

RELOCATE ELECTROLIER FROM STA. 304+81 TO
STA. 303+64. REMOVE FOUNDATION 2' BELOW GRADE. (BY SDG&E)
- 92

EXPANSION/DEFLECTION FITTING IS REQUIRED AT ALL JOINTS
PER STD PLAN ES-9B DETAIL XY.

NO AS BUILT CHANGES

AS BUILT

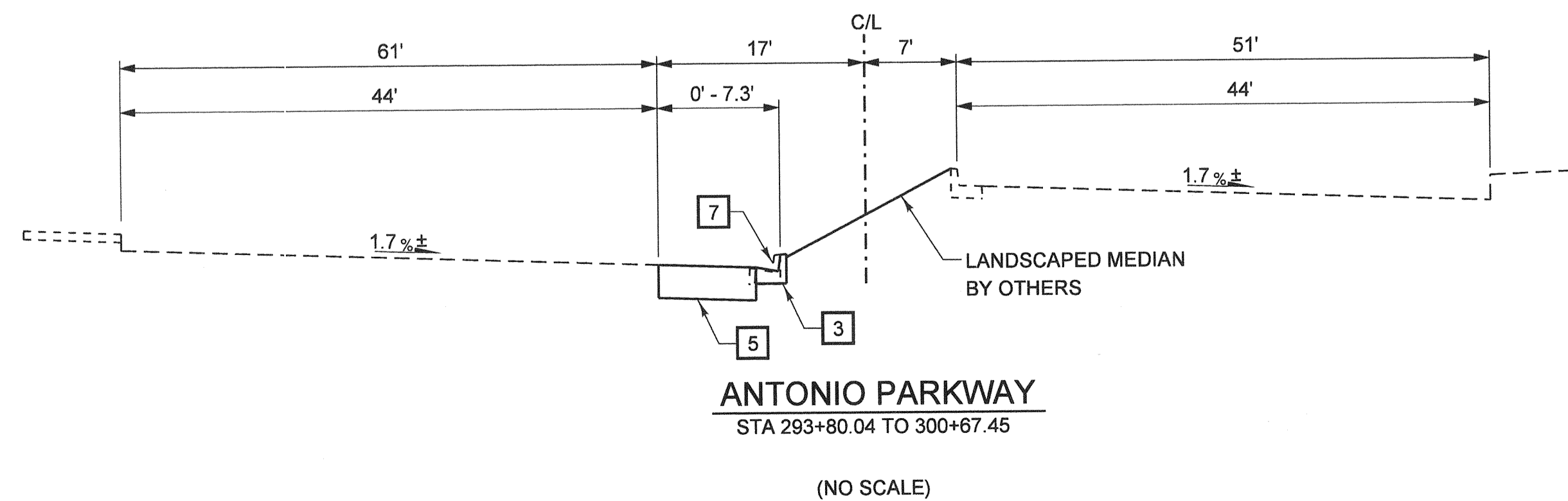
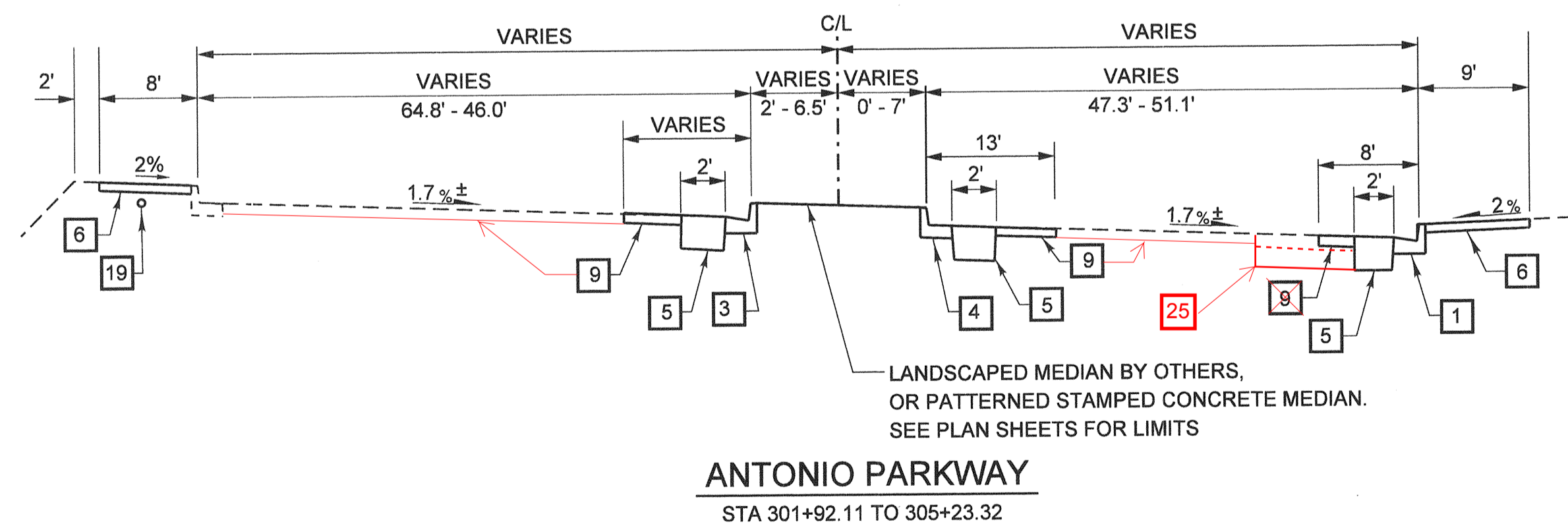
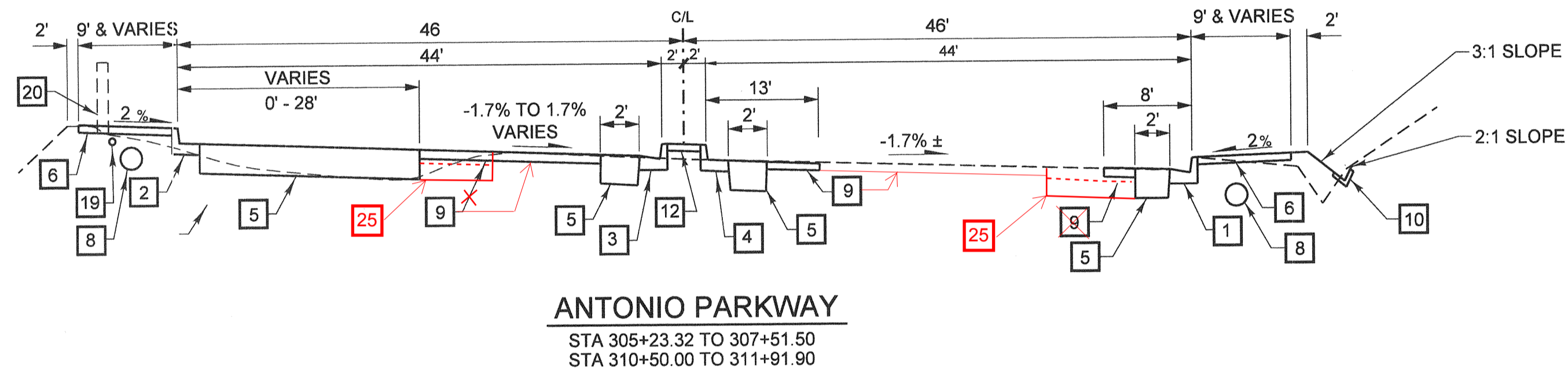
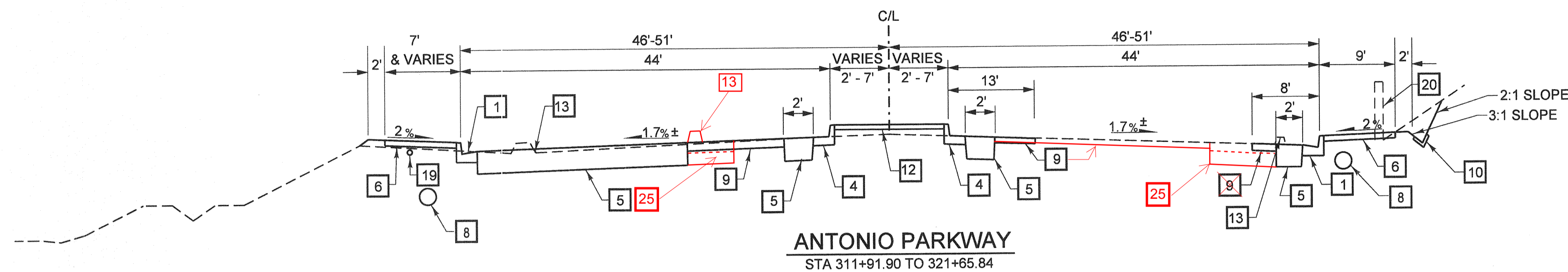
CORRECTION BY: MN
CONTRACT NO.: EC28121
DATE: 12/30/2009

PLANS PREPARED BY:
HNTB
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
		ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS	
		CONSTRUCTION NOTES	
DESIGNED: R. NIERE		SHEET	
DRAWN: N. BUNIA		3	
CHECKED: S. STROH		OF 72	
SCALE AS SHOWN	DATE 11/18/05	DRAWING NO. xxx	

MARK	DATE	DESCRIPTION
REVISIONS		
PREPARED UNDER RESPONSIBLE CHARGE OF:		
<div><div>STEVEN B. STROH</div><div>C 59687</div><div>NO. 12-31-07</div><div>EXP. CIVIL</div><div>STATE OF CALIFORNIA</div></div>		
STEVEN B. STROH RCE C 59687 (EXP. 12-31-07)		

Date Plotted: 27 October, 2006 01:30
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CONSTRUCTION NOTES

- 1 CONSTRUCT P.C.C. CURB & GUTTER TYPE A2-8 PER RDMD STD. PLAN 120-0-OC.
- 2 CONSTRUCT P.C.C. CURB & GUTTER TYPE A3-8 PER RDMD STD. PLAN 120-0-OC.
- 3 CONSTRUCT P.C.C. CURB & GUTTER TYPE A2-8, W=12", PER RDMD STD. PLAN 120-0-OC.
- 4 CONSTRUCT P.C.C. CURB & GUTTER TYPE A3-8, W=12", PER RDMD STD. PLAN 120-0-OC.
- 5 CONSTRUCT 14" A.C.
- 6 CONSTRUCT P.C.C. SIDEWALK PER RDMD STD. PLAN 1205.
- 7 REMOVE EXISTING CURB & GUTTER.
- 8 CONSTRUCT 24" RCP
- 9 COLD PLANE 2" AND RESURFACE AC PAVEMENT 2" MINIMUM
- 10 TERRACE DRAIN PER RDMD STD. PLAN 1321
- 12 CONSTRUCT PATTERN-STAMPED MEDIAN PAVING PER RDMD STD. PLAN 1807 STA 305+00 TO 325+48.
- 13 REMOVE EXISTING AC DIKE
- 19 INSTALL 2" I.C. CONDUIT AND PULL ROPE WITH #3 1/2 P.B. @ 300' STA 302+06 TO 322+00
- 20 REMOVE EXISTING PILASTERS
- 25 REMOVE EXISTING A.C. SHOULDER AND CONSTRUCT 14" A.C.

NOTE

THE PROPOSED VERTICAL ALIGNMENT AND SUPERELEVATION OF ANTONIO PARKWAY IS BASED ON THE EXISTING ROADWAY. THE PROFILE AND SUPERELEVATION DIAGRAM OF THE EXISTING ROADWAY WAS CONSTRUCTED FROM THAT OF THE "ANTONIO PARKWAY PHASE III" PROJECT, WHICH IS INCLUDED AS A REFERENCE IN APPENDIX 7 OF THE PROJECT SPECIFICATIONS

AS BUILT

CORRECTION BY: MN

CONTRACT NO.: EC28212

DATE: 12/30/2009

PLANS PREPARED BY: HNTB Corporation
200 E. SANDPOINT AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

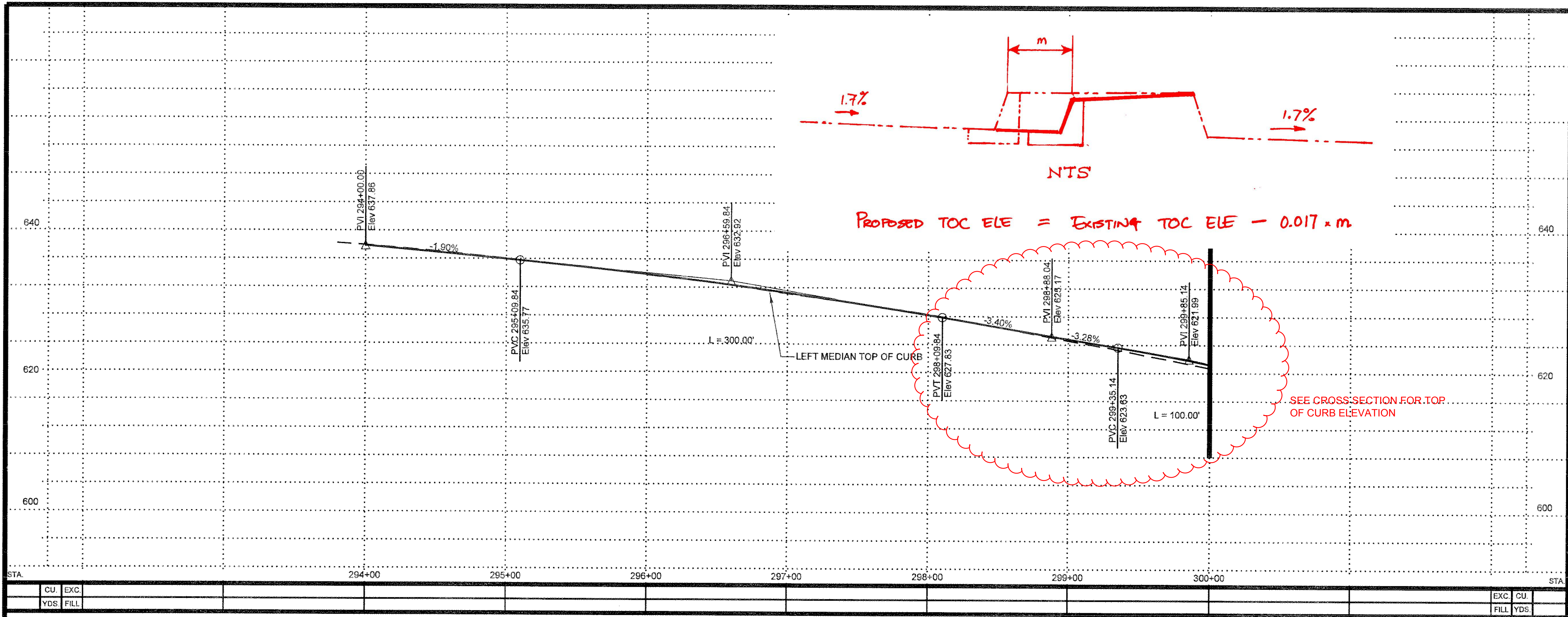
HNTB

PLAN 1" = 20'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
		ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS	
		TYPICAL SECTION	
MARK	DATE	DESCRIPTION	
REVISIONS			
PREPARED UNDER RESPONSIBLE CHARGE OF:			
DESIGNED	R. NIERE	CHECKED	S. STROHM
DRAWN	N. BUNIA	CHECKED	S. STROHM
SCALE	DATE	DRAWING NO.	
AS SHOWN	11/18/05	xxx	
SHEET			4
OF 72			

Date Plotted: 27 October, 2006 01:30

File Name: J:\34092\CADD\Hwy\Sheets\Typical.dgn

Border sheet last modified 06-Nov-1999



PROFILE
HORIZ. 1" = 40'
VERT. 1" = 8'

NOTE

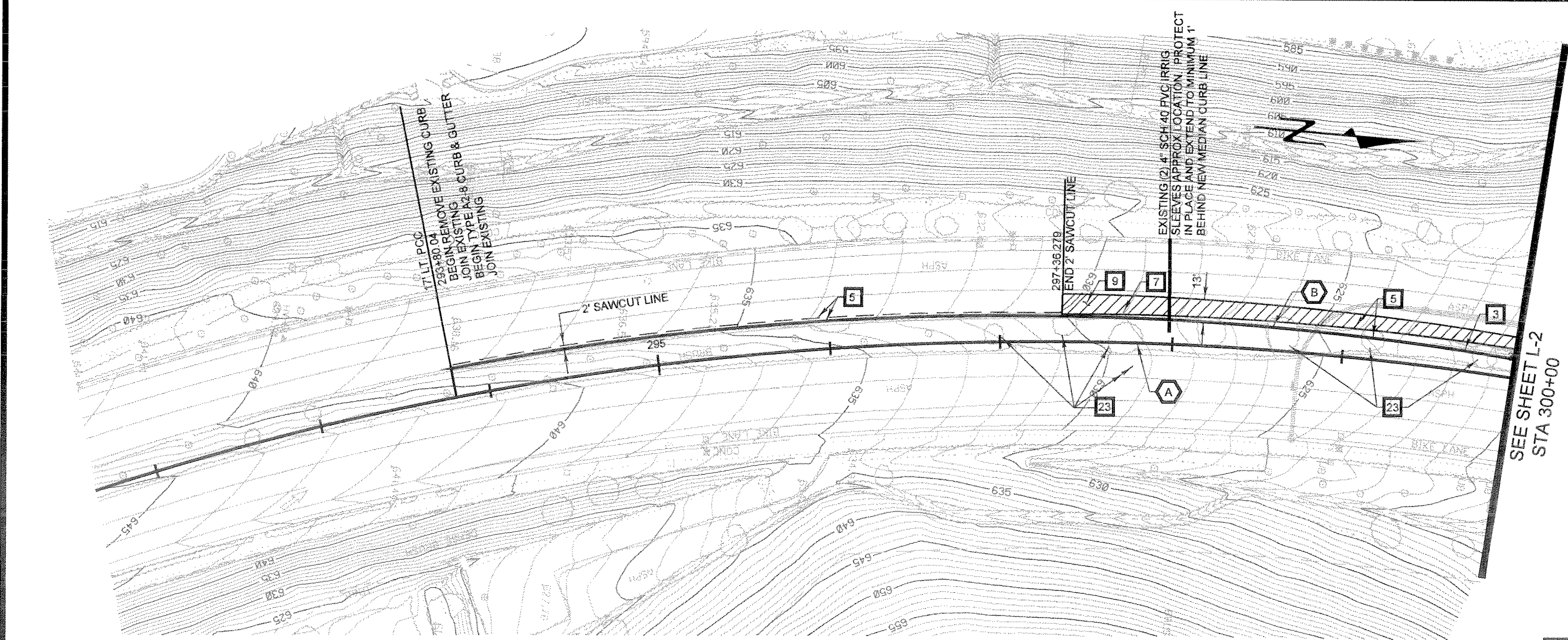
THE PROPOSED VERTICAL ALIGNMENT AND SUPERELEVATION OF ANTONIO PARKWAY IS BASED ON THE EXISTING ROADWAY. THE PROFILE AND SUPERELEVATION DIAGRAM OF THE EXISTING ROADWAY WAS CONSTRUCTED FROM THAT OF THE "ANTONIO PARKWAY PHASE III" PROJECT, WHICH IS INCLUDED AS A REFERENCE IN APPENDIX 7 OF THE PROJECT SPECIFICATIONS

CONSTRUCTION NOTES

- 3. CONSTRUCT P.C.C. CURB & GUTTER TYPE A2-8, W=12", PER RDMD STD. PLAN 120-0-0C.
- 5. CONSTRUCT 14" A.C.
- 7. REMOVE EXISTING CURB & GUTTER.
- 9. COLD PLANE 2" AND RESURFACE AC PAVEMENT 2" MINIMUM
- 23. REMOVE TREE

CURVE DATA

- A Δ= 59°33'51"
R= 1800.00'
L= 1871.26'
T= 1030.12'
- B Δ= 22°59'15"
R= 1720.00'
L= 660.07'
T= 349.74'

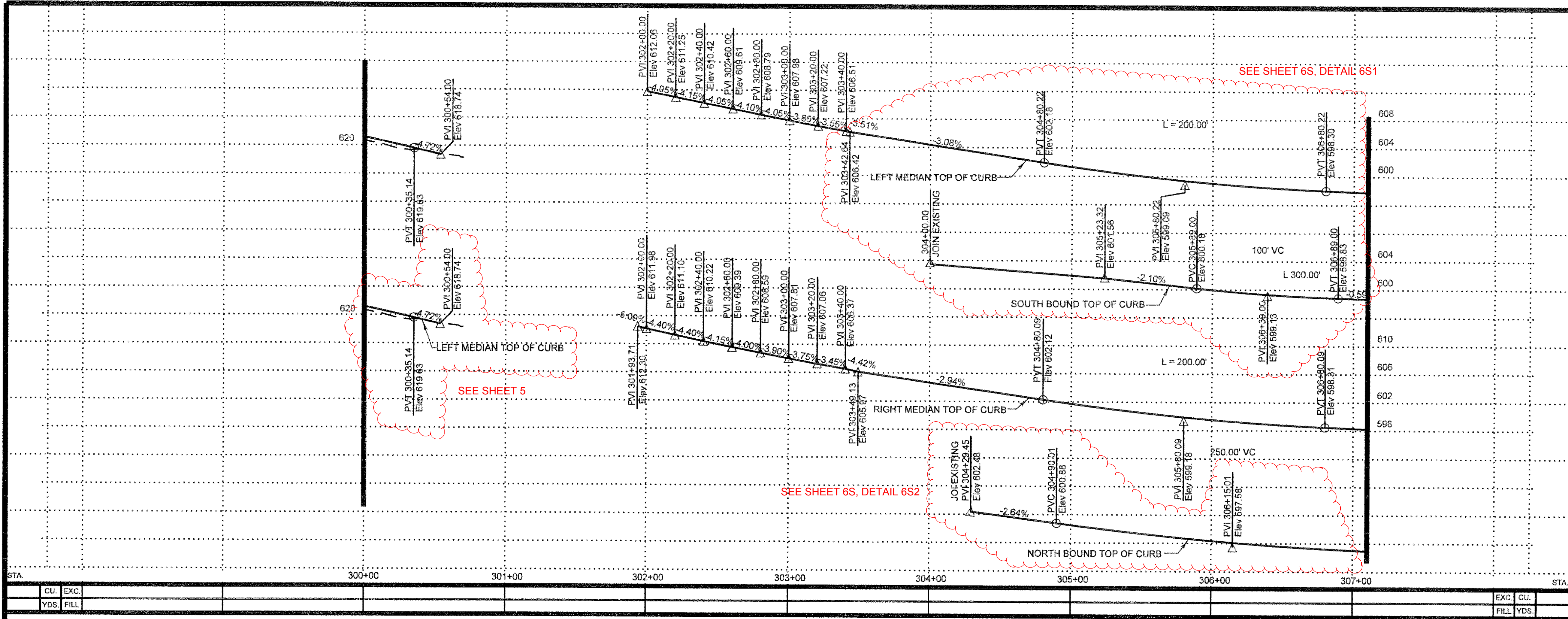


AS BUILT

CORRECTION BY: MN
CONTRACT NO.: EC28121
DATE: 12/30/2009

PLANS PREPARED BY: HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

PLAN 1" = 40'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS		STA 293+80 TO 300+00 PLAN & PROFILE L-1	
DESIGNED: J. NIEBER DRAWN: M. B. STUBBS CHECKED: S. STUBBS		SHEET 5 OF 72	
REVISIONS		DATE	
PREPARED UNDER RESUME OF CHARGE OF: STEVEN B. STUBBS NO. C 59687 EXP. 12-31-07 CIVIL ENGINEER		DATE	
SCALE		DRAWING NO.	
AS SHOWN		11/1/2005	



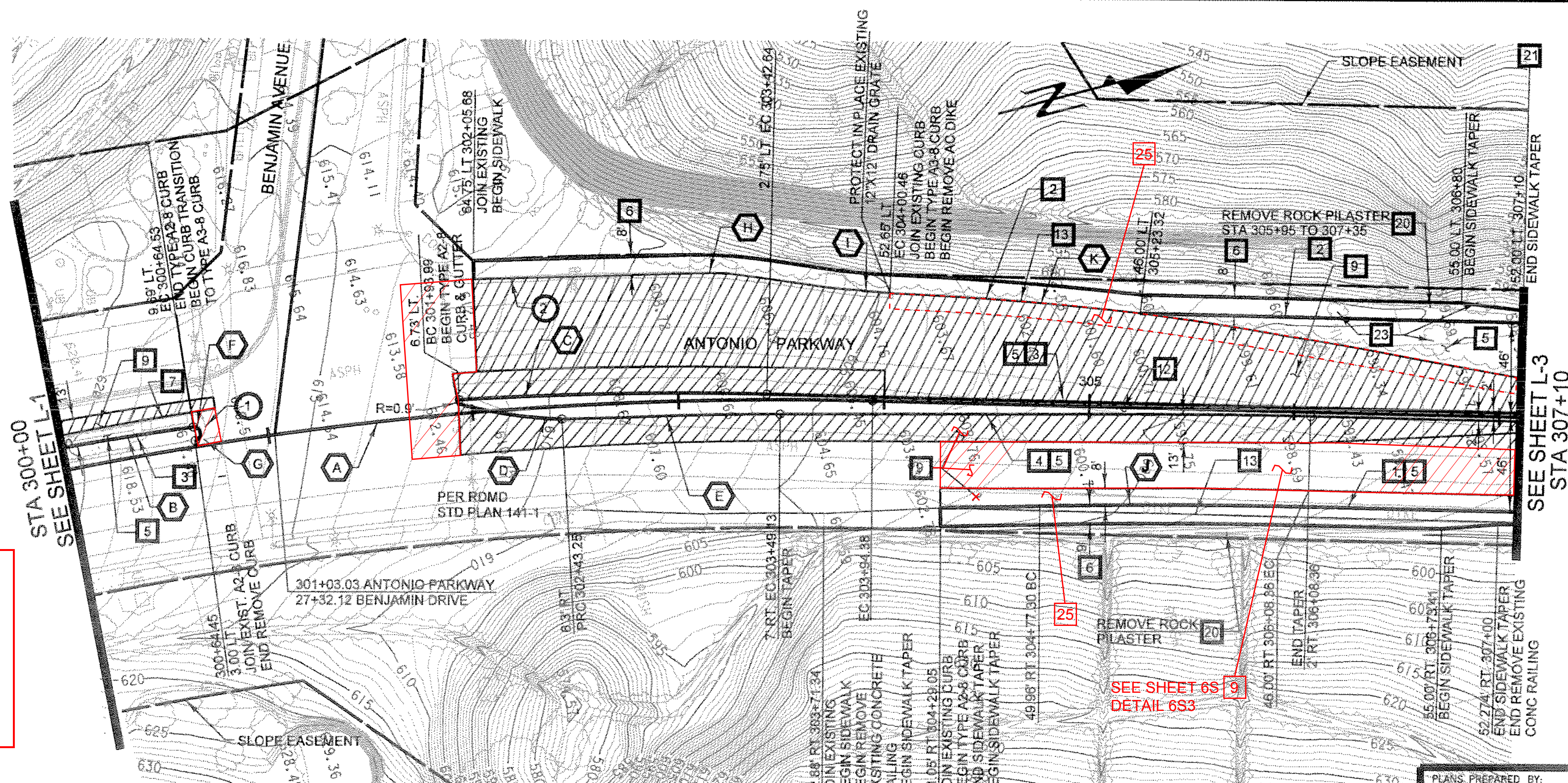
PROFILE
HORIZ. 1" = 40'
VERT. 1" = 8'

CONSTRUCTION NOTES

1. CONSTRUCT P.C.C. CURB & GUTTER TYPE A2-8 PER RDMD STD. PLAN 120-0-0C.
2. CONSTRUCT P.C.C. CURB & GUTTER TYPE A3-8 PER RDMD STD. PLAN 120-0-0C.
3. CONSTRUCT P.C.C. CURB & GUTTER TYPE A2-8, W=12", PER RDMD STD. PLAN 120-0-0C.
4. CONSTRUCT P.C.C. CURB & GUTTER TYPE A3-8, W=12", PER RDMD STD. PLAN 120-0-0C.
5. CONSTRUCT 14" A.C.
6. CONSTRUCT PCC SIDEWALK PER RDMD STD. PLAN 1205
7. REMOVE EXISTING CURB & GUTTER.
8. COLD PLANE 2" AND RESURFACE A.C. PAVEMENT 2" MINIMUM.
12. CONSTRUCT PATTERN-STAMPED MEDIAN PAVING PER RDMD STD. PLAN 1807. STA 305+00 TO 325+48.
13. REMOVE EXISTING AC DIKE.
20. REMOVE EXISTING PILASTER
21. CONCRET CUT-OFF WALL SEE SHEET L-3 DETAIL B
23. REMOVE TREE
25. REMOVE EXISTING A.C. SHOULDER AND CONSTRUCT 14" A.C.

NOTE

THE PROPOSED VERTICAL ALIGNMENT AND SUPERELEVATION OF ANTONIO PARKWAY IS BASED ON THE EXISTING ROADWAY. THE PROFILE AND SUPERELEVATION DIAGRAM OF THE EXISTING ROADWAY WAS CONSTRUCTED FROM THAT OF THE "ANTONIO PARKWAY PHASE III" PROJECT, WHICH IS INCLUDED AS A REFERENCE IN APPENDIX 7 OF THE PROJECT SPECIFICATIONS



COURSE DATA		
	BEARING	LENGTH
1	S 83°04'01"	0.69'
2	N 13°10'17"	101.99'
3	N 22°56'41"	33.17'

CURVE DATA

A	Δ= 59°33'51" R= 1800.00' L= 1871.26' T= 1030.12'	E	Δ= 02°46'08" R= 1793.00' L= 86.66' T= 43.33'	I	Δ= 05°50'18" R= 285.00' L= 29.04' T= 14.53'
B	Δ= 22°59'15" R= 1720.00' L= 690.07' T= 349.74'	F	Δ= 90°00'55" R= 3.00' L= 4.72' T= 3.00'	J	Δ= 02°32'26" R= 2856.00' L= 131.11' T= 65.55'
C	Δ= 02°19'52" R= 1720.00' L= 149.10' T= 74.60'	G	Δ= 88°42'38" R= 3.00' L= 4.65' T= 2.93'	K	Δ= 04°14'29" R= 1650.00' L= 122.14' T= 61.10'
D	Δ= 50° W=10'	H	Δ= 9°46'23" R= 220.00' L= 37.53' T= 18.81'		

AS BUILT
CORRECTION BY: MN
CONTRACT NO.: EC28121
DATE: 12/30/2009

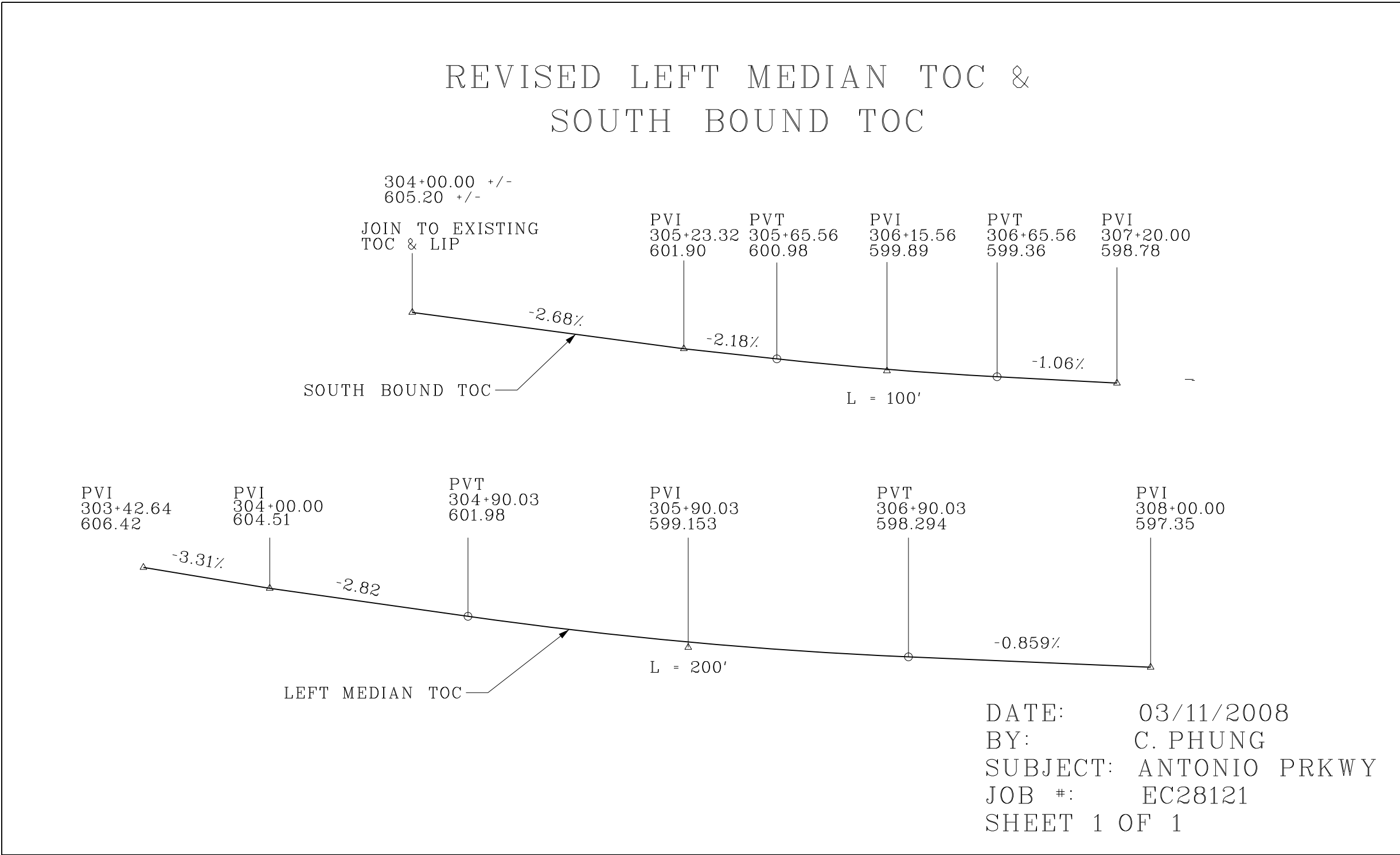
PLANS PREPARED BY: HNTB Corporation
200 E. SANDPOINT AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1630

PLAN 1" = 40'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS		STA 300+00 TO 307+10 PLAN & PROFILE L-2	
DESIGNED: J. NEDER DRAWN: J. NEDER SCALE: AS SHOWN DATE: 11/18/05		CHECKED: S. STROH DATE: 11/18/05	
SHEET 6 OF 72		SHEET 6 OF 72	

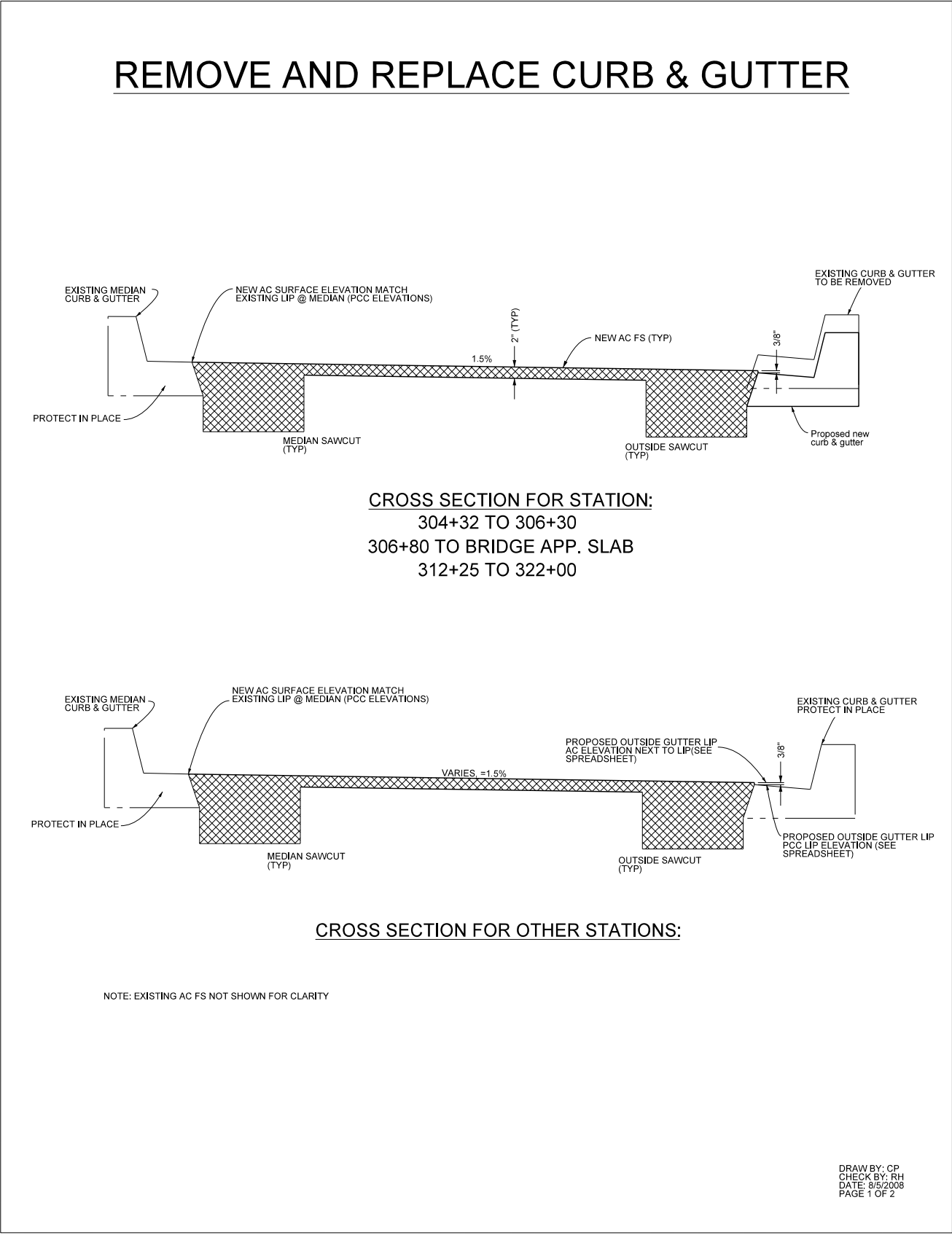
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TOC		
Station	Offset from Centerline (ft)	Proposed Elevations (ft)
304+32.00	49.93	602.69
304+50.00	49.53	602.18
304+77.30	48.97	601.42
305+00.00	48.49	600.76
305+25.00	47.97	600.11
305+50.00	47.46	599.48
305+75.00	46.94	598.98
306+00.00	46.41	598.62
306+08.36	46.28	598.46
306+24.95	46.18	598.23
306+29.71	46.27	598.22
306+50.00	46.22	597.92
306+56.44	46.24	597.85
306+60.79	46.25	597.75
306+69.78	46.26	597.63
306+75.00	46.26	597.56
306+79.88	46.25	597.50
306+91.21	46.26	597.35
306+95.83	46.33	597.34
307+01.93	46.17	597.23
307+00.00	46.22	597.26
307+16.47	46.27	597.11
307+19.73	46.29	597.07
311+00.00	46.08	599.02
311+25.00	46.14	599.61
311+50.00	46.24	600.14
311+75.00	46.18	600.68
312+00.00	46.18	601.19
312+25.00	46.36	601.74
312+50.00	46.56	602.23
312+75.00	46.84	602.73
313+00.00	47.03	603.21
313+25.00	47.24	603.65
313+50.00	47.42	604.07
313+75.00	47.64	604.45
314+00.00	47.86	604.82
314+25.00	48.07	605.19
314+50.00	48.27	605.53
314+75.00	48.46	605.85
315+00.00	48.67	606.17
315+25.00	48.88	606.41
315+50.00	49.10	606.64
315+75.00	49.28	606.83
316+00.00	49.48	607.01
316+25.00	49.69	607.12
316+50.00	49.89	607.32
316+75.00	50.09	607.46
317+00.00	50.29	607.55
317+25.00	50.49	607.58
317+50.00	50.70	607.59
317+75.00	50.92	607.59
318+00.00	51.08	607.58
318+25.00	51.14	607.54
318+50.00	51.15	607.47
318+75.00	51.12	607.38
319+00.00	51.14	607.26
319+25.00	51.15	607.13
319+50.00	51.16	606.98
319+75.00	51.13	606.77
320+00.00	51.17	606.53
320+25.00	51.18	606.29
320+50.00	51.17	606.03
320+75.00	51.22	605.76
321+00.00	51.23	605.45
321+25.00	51.17	605.08
321+50.00	51.23	604.69
321+75.00	51.24	604.30
322+00.00	51.26	603.88

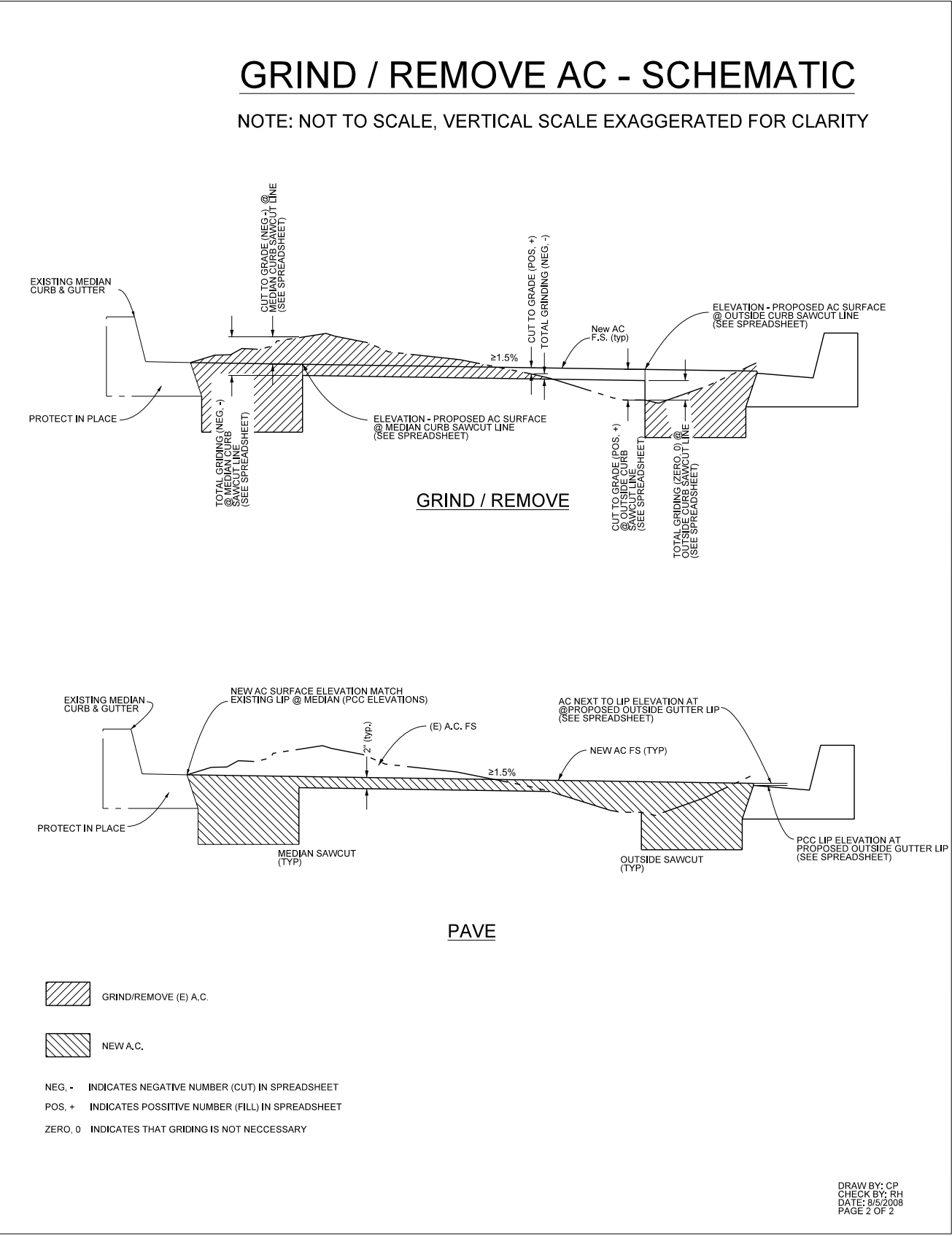
6S2 - NORTHBOUND SIDEWALK
TOP OF CURB



6S1 - SOUTHBOUND MEDIAN
AND SIDEWALK TOP OF CURB



6S3 - NORTHBOUND GRIDNING



AS BUILT

CORRECTION BY: MN

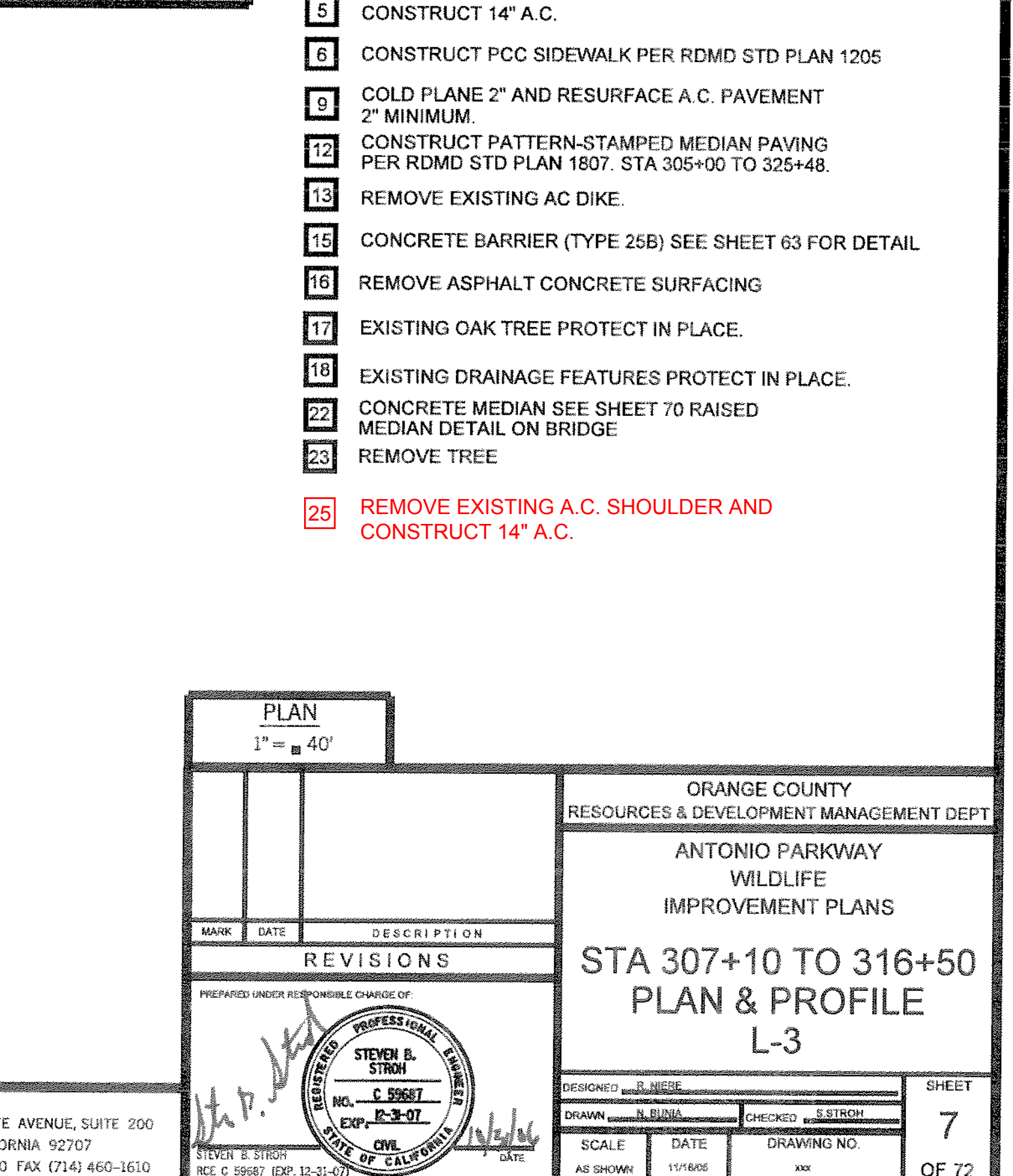
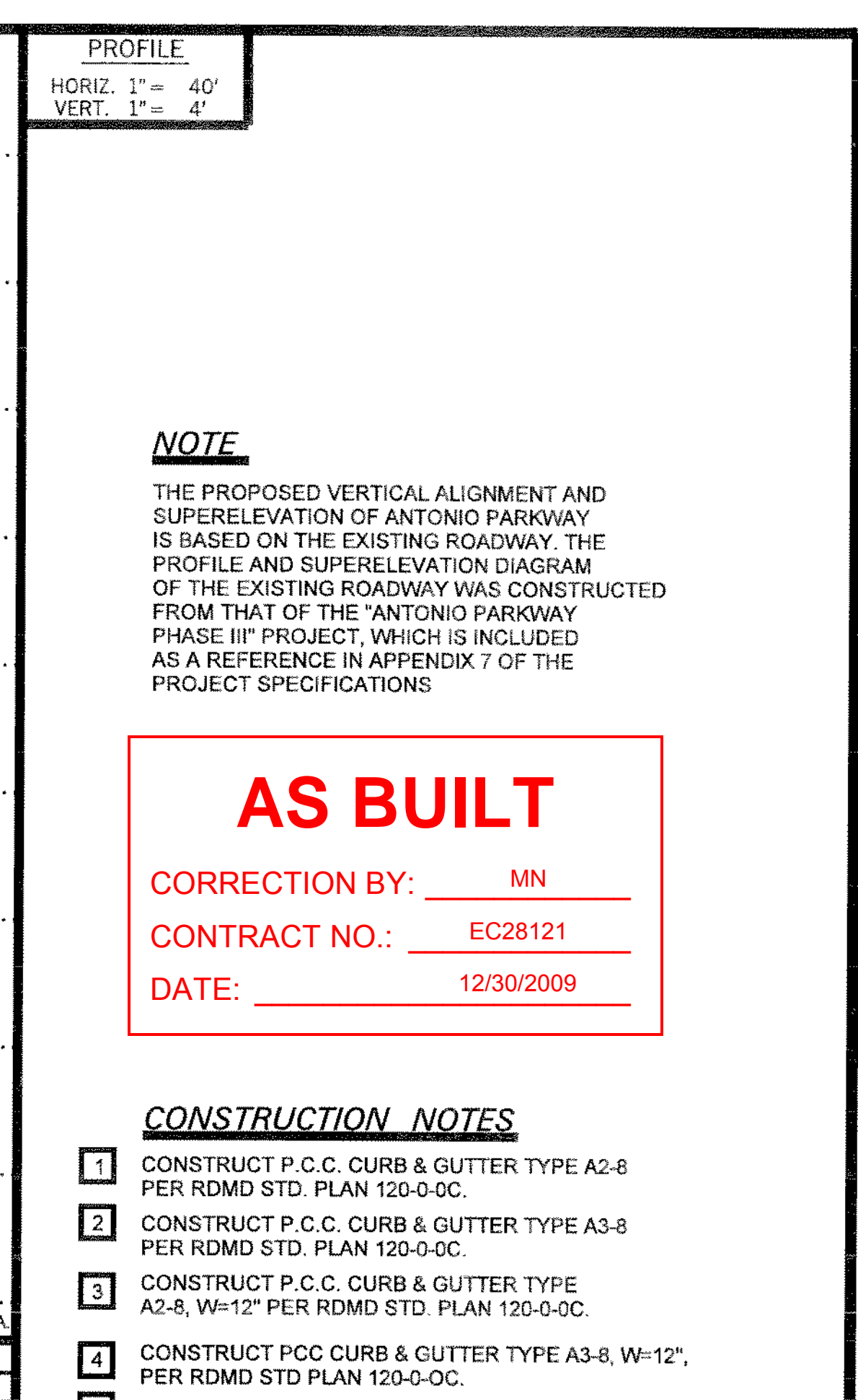
CONTRACT NO.: EC28121

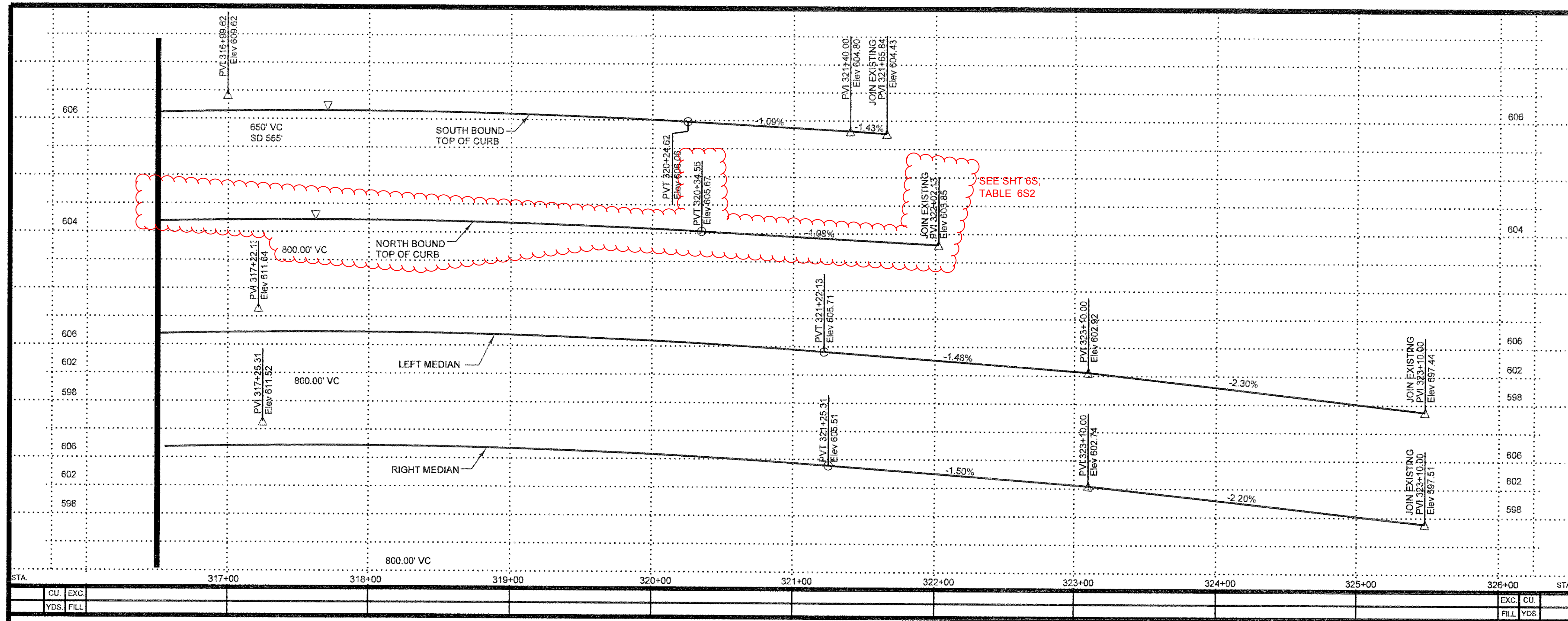
DATE: 12/30/2009

PLAN 1"=		ORANGE COUNTY PUBLIC FACILITIES AND RESOURCES DEPARTMENT	
		ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)	
		PLAN & PROFILE L-2	
MARK	DATE	DESCRIPTION	
REVISIONS			
PREPARED UNDER RESPONSIBLE CHARGE OF:			
DESIGNED		CHECKED	
DRAWN		DATE	
SCALE AS SHOWN		DRAWING NO.	
SHEET 6S		OF 72	

Date Plotted:

File Name:





PROFILE
HORIZ. 1" = 40'
VERT. 1" = 8'

NOTE

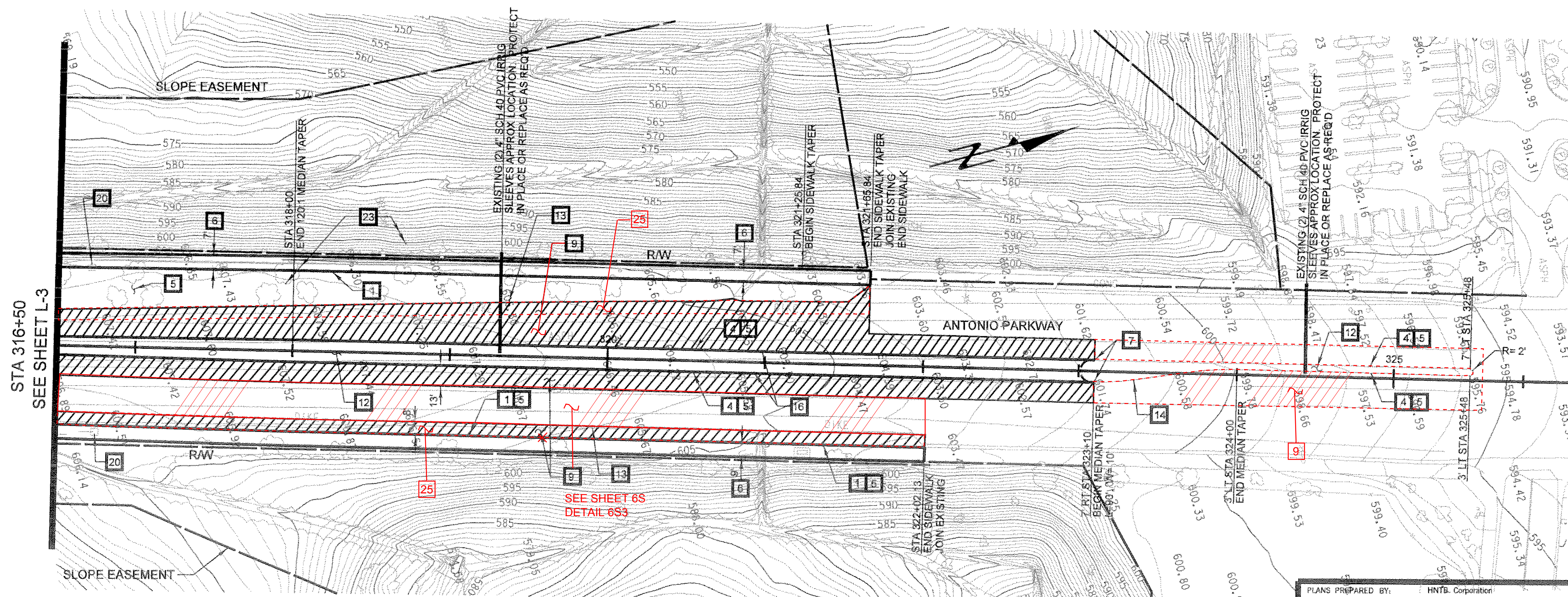
THE PROPOSED VERTICAL ALIGNMENT AND SUPERELEVATION OF ANTONIO PARKWAY IS BASED ON THE EXISTING ROADWAY. THE PROFILE AND SUPERELEVATION DIAGRAM OF THE EXISTING ROADWAY WAS CONSTRUCTED FROM THAT OF THE "ANTONIO PARKWAY PHASE III" PROJECT, WHICH IS INCLUDED AS A REFERENCE IN APPENDIX 7 OF THE PROJECT SPECIFICATIONS

AS BUILT

CORRECTION BY: MN
CONTRACT NO.: EC28121
DATE: 12/30/2009

CONSTRUCTION NOTES

- 1 CONSTRUCT P.C.C. CURB & GUTTER TYPE A2-8 PER RDMD STD. PLAN 120-0-0C.
- 4 CONSTRUCT PCC CURB & GUTTER TYPE A3-8, W=12", PER RDMD STD PLAN 120-0-0C.
- 5 CONSTRUCT 14" A.C.
- 6 CONSTRUCT PCC SIDEWALK PER RDMD STD. PLAN 1205
- 7 REMOVE EXISTING CURB AND GUTTER STA 323+10 TO 325+48
- 9 COLD PLANE 2" AND RESURFACE A.C. PAVEMENT 2" MINIMUM.
- 12 CONSTRUCT PATTERN-STAMPED MEDIAN PAVING PER RDMD STD PLAN 1807. STA 305+00 TO 325+48
- 13 REMOVE EXISTING AC DIKE.
- 14 CONSTRUCT MEDIAN TAPER PER RDMD STD. 140-1-0C
- 16 REMOVE ASPHALT CONCRETE SURFACING.
- 20 REMOVE EXISTING PILASTER.
- 23 REMOVE TREE
- 25 REMOVE EXISTING A.C. SHOULDER AND CONSTRUCT 14" A.C.



PLAN 1" = 40'	
MARK	DATE
DESCRIPTION	
REVISIONS	
PREPARED UNDER RESPONSIBLE CHARGE OF:	
DESIGNED: <u> B. NISSE </u>	
DRAWN: <u> N. BUNA </u>	
CHECKED: <u> S. STRON </u>	
SCALE: <u> AS SHOWN </u>	
DATE: <u> 11/18/05 </u>	
DRAWING NO.: <u> XXX </u>	
SHEET 8 OF 72	

ORANGE COUNTY
RESOURCES & DEVELOPMENT MANAGEMENT DEPT
ANTONIO PARKWAY
WILDLIFE
IMPROVEMENT PLANS
STA 316+50 TO 325+00
PLAN & PROFILE
L-4

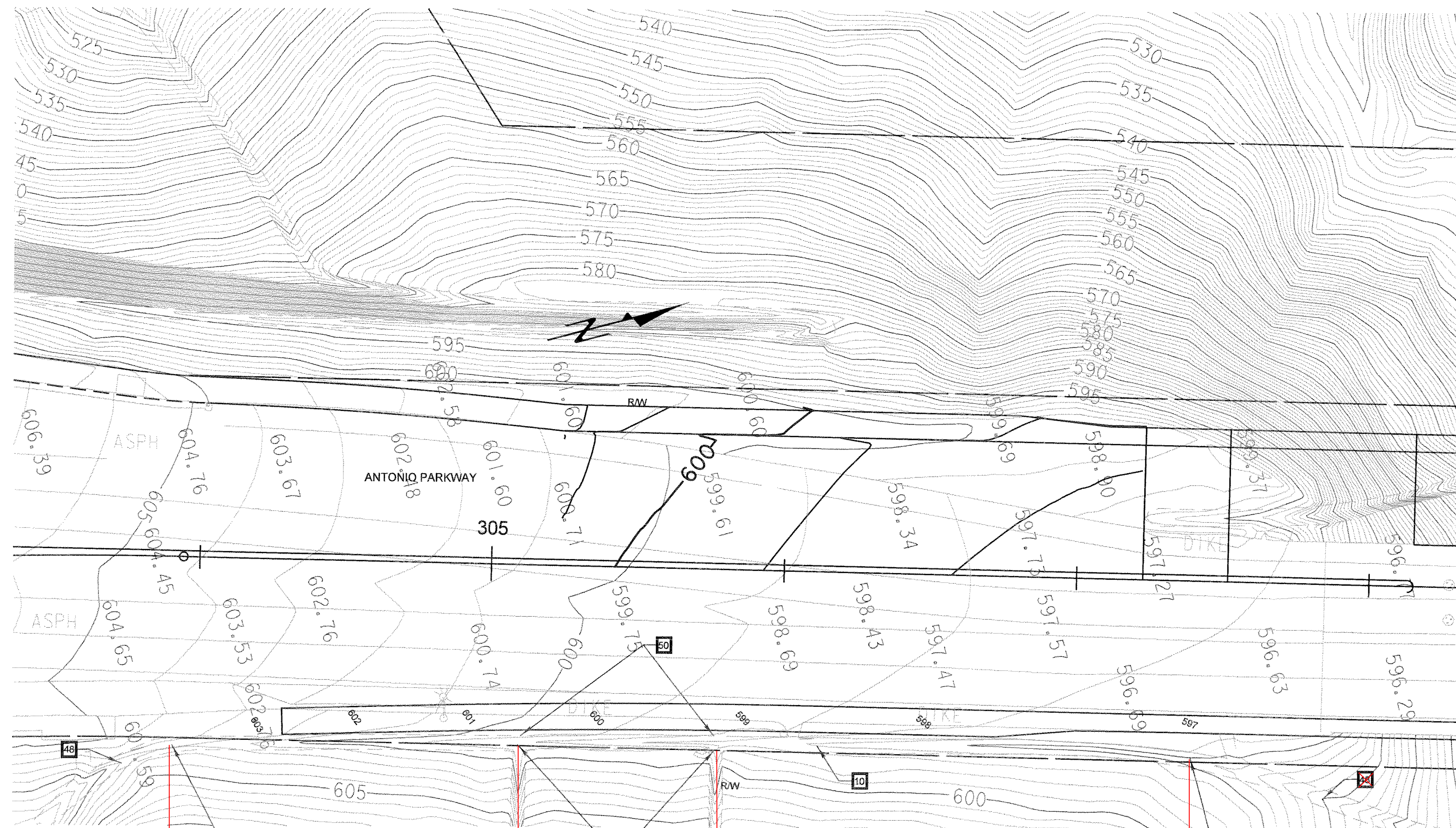
DESIGNED: B. NISSE
DRAWN: N. BUNA
CHECKED: S. STRON
SCALE: AS SHOWN
DATE: 11/18/05
DRAWING NO.: XXX

PLANS PREPARED BY: **HNTB**
HNTB Corporation
200 E. SANDPOINT AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

STEVEN B. STRON
RCE C 59887 (EXP. 12-31-07)

PROFESSIONAL SEAL
STEVEN B. STRON
NO. C 59887
EXP. 12-31-07
CIVIL
STATE OF CALIFORNIA

Date Plotted: dd-mm-yyyy hh:mm
File Name: SDGN-FILE-NAMES



CONSTRUCTION NOTES

- 10 TERRACE DRAIN PER RDMD STD. PLAN 1321.
- 24 REMOVE EXISTING TERRACE DRAIN.
- 48 PROTECT-IN-PLACE EXISTING TERRACE DRAIN.
- 50 REMOVE INTERFERING PORTION OF EXISTING DOWN DRAIN. CUT TO CLEAN LINE.

10 BEGIN TERRACE DRAIN
JOIN EXISTING
24 BEGIN REMOVE EXISTING
TERRACE DRAIN

303+92, 64' RT

TIE INTO EXISTING
DOWN DRAINS
INSTALL SPLASH WALL PER
RDMD STD PLAN 1321

305+78, 62' RT

10 END TERRACE DRAIN
JOIN EXISTING
24 END REMOVE EXISTING
TERRACE DRAIN

307+44, 62' RT

AS BUILT

CORRECTION BY: MN
CONTRACT NO.: EC28121
DATE: 12/30/2009

PLANS PREPARED BY: HNTB Corporation
200 E. SANDPOINT AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

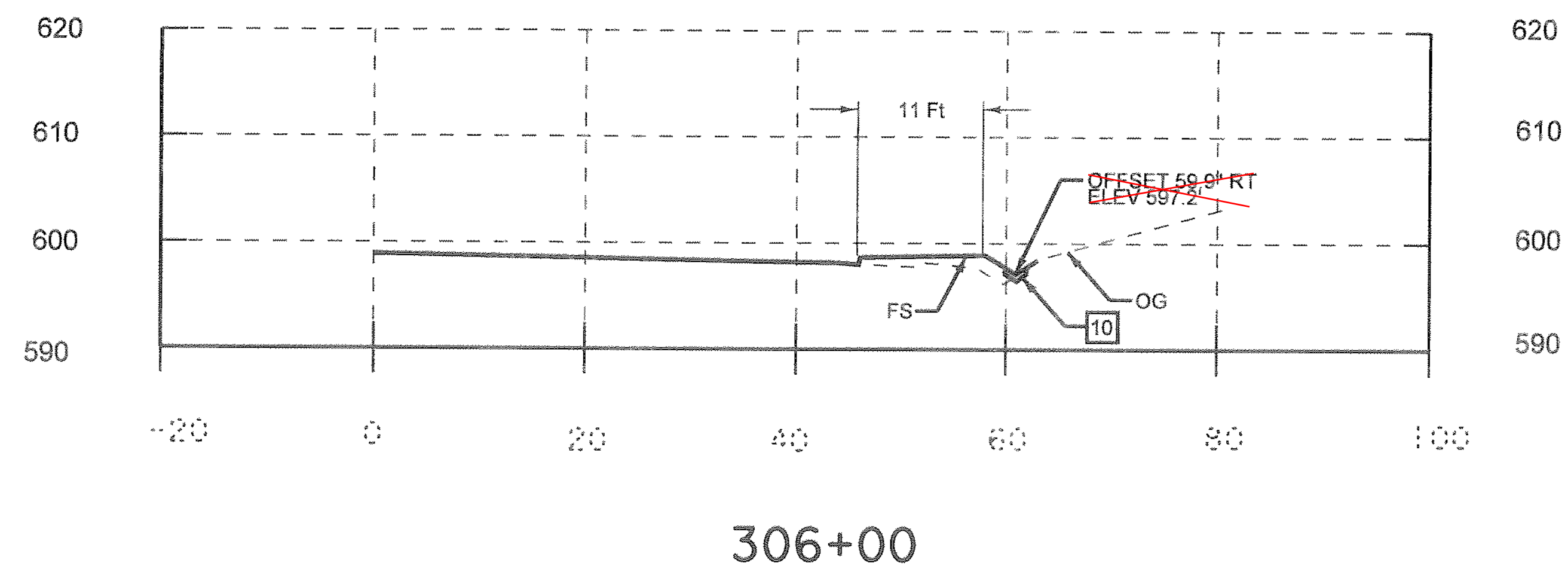
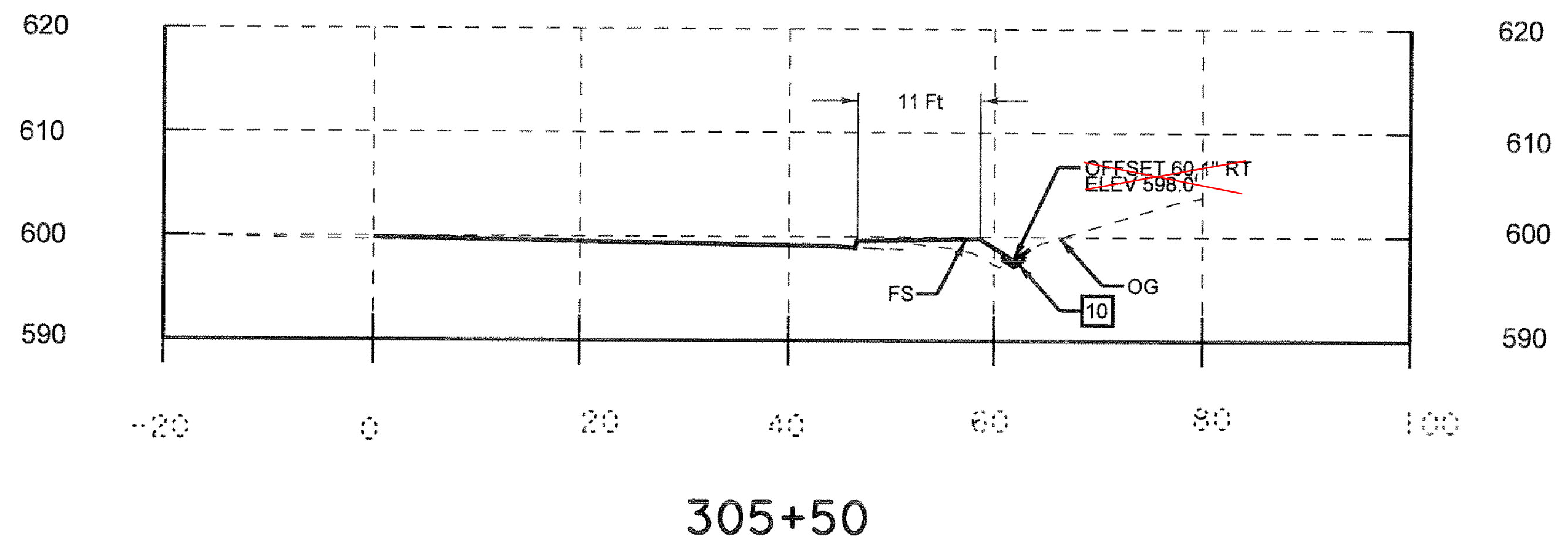
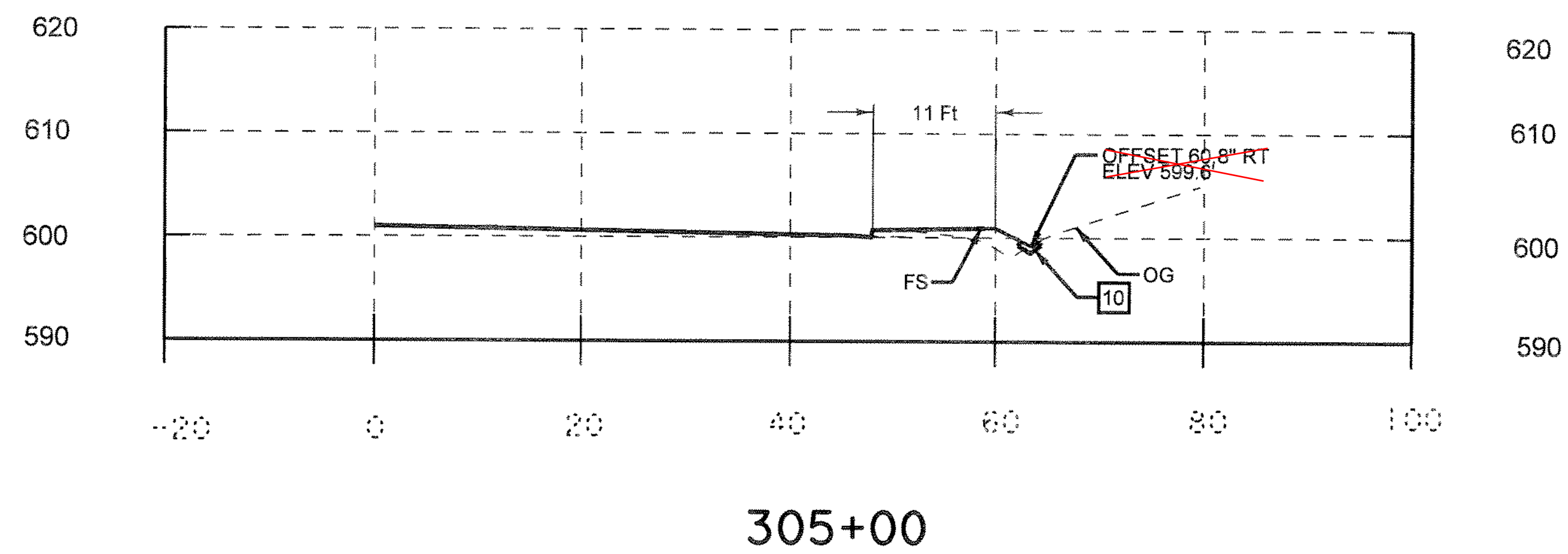
PLAN 1" = 20'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
		ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS	
		STA 300+00 TO 307+10 CONTOUR GRADING PLAN G-1	
DESIGNED: J. NIEME		SHEET 9 OF 72	
DRAWN: N. BUNA		CHECKED: S. STRICH	
SCALE: AS SHOWN		DATE: 11/18/05	
DRAWING NO. 100			

PREPARED UNDER RESPONSIBLE CHARGE OF:
STEVEN B. STRICH
RCE C 55687 (EXP. 12-31-07)
CIVIL ENGINEER
STATE OF CALIFORNIA

Date Plotted: dd-mm-yyy hh:mm

File Name: SDGN-FILE-NAMES

Border sheet last modified 08-Nov-1999

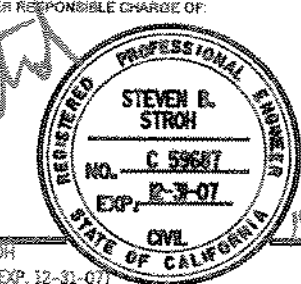


AS BUILT

CORRECTION BY: MN
 CONTRACT NO.: EC28121
 DATE: 12/30/2009

PLANS PREPARED BY:
HNTB
 HNTB Corporation
 200 E. SANDPOINTE AVENUE, SUITE 200
 SANTA ANA, CALIFORNIA 92707
 TEL (714) 460-1600 FAX (714) 460-1610

STEVEN B. STROH
 RCE C 59687 (EXP. 12-31-11)



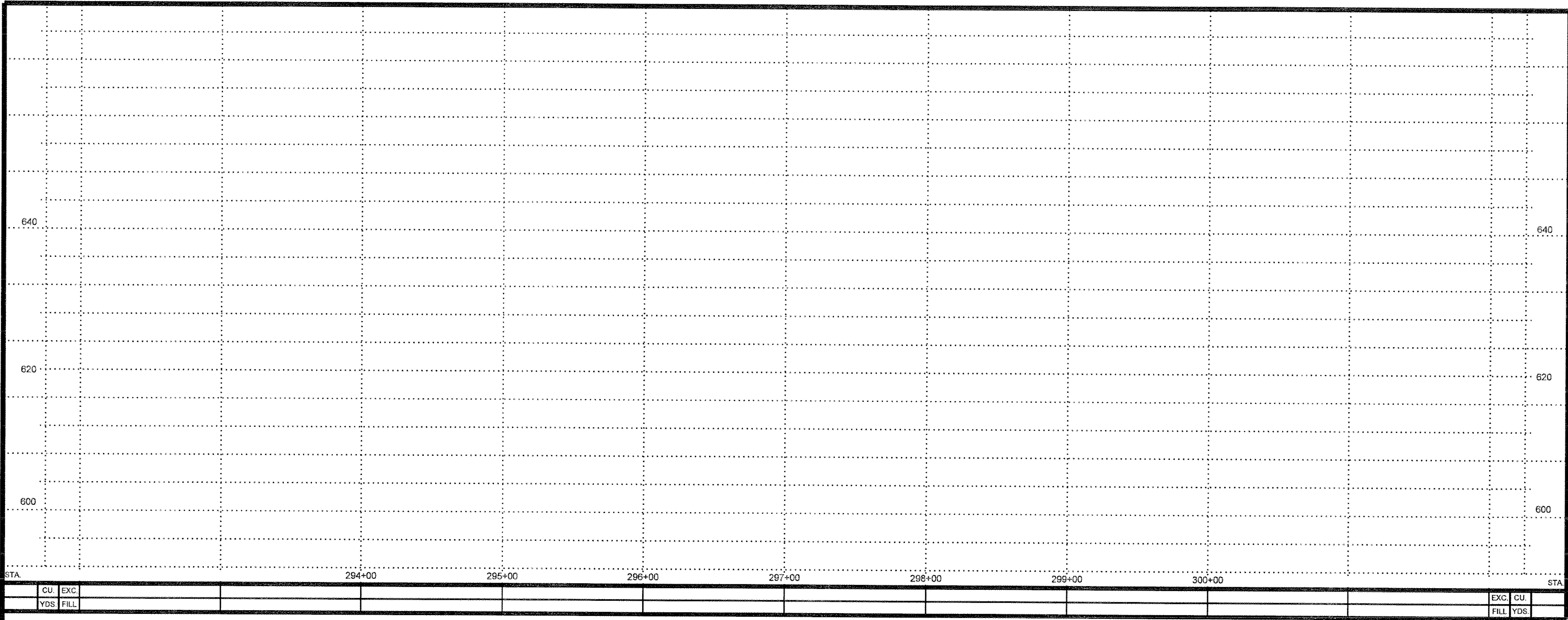
ORANGE COUNTY
 RESOURCES & DEVELOPMENT MANAGEMENT DEPT
 ANTONIO PARKWAY
 WILDLIFE
 IMPROVEMENT PLANS
**CROSS SECTIONS FOR
 CONTOUR GRADING PLAN
 G-2**

DESIGNED: S. STROH SHEET
 DRAWN: S. STROH CHECKED: S. STROH **10**
 SCALE: AS SHOWN DATE: 11/18/05 DRAWING NO.: xxx OF 72

Date Plotted: dd-mmm-yyyy hh:mm

File Name: SDGN-FILE-NAMES

Border sheet last modified 03-Nov-1999



PROFILE
HORIZ. 1" = 40'
VERT. 1" = 8'



FL ELEVATIONS
SEE SHEET 15,
MEDIAN GRATE
INLET DETAIL A

- CONSTRUCTION NOTES**
- 31 PROTECT IN PLACE EXISTING 8" PVC
 - 32 PROTECT IN PLACE EXISTING CB
 - 33 INSTALL 8" PVC
 - 34 INSTALL MEDIAN GRATE INLET, SEE DETAIL A, SHT D-5
 - 35 REMOVE EXIST PVC PIPE AND CB'S
 - 36 TOP OF CURB, SEE L-SHEETS

AS BUILT

CORRECTION BY: MN
CONTRACT NO.: EC28121
DATE: 12/30/2009

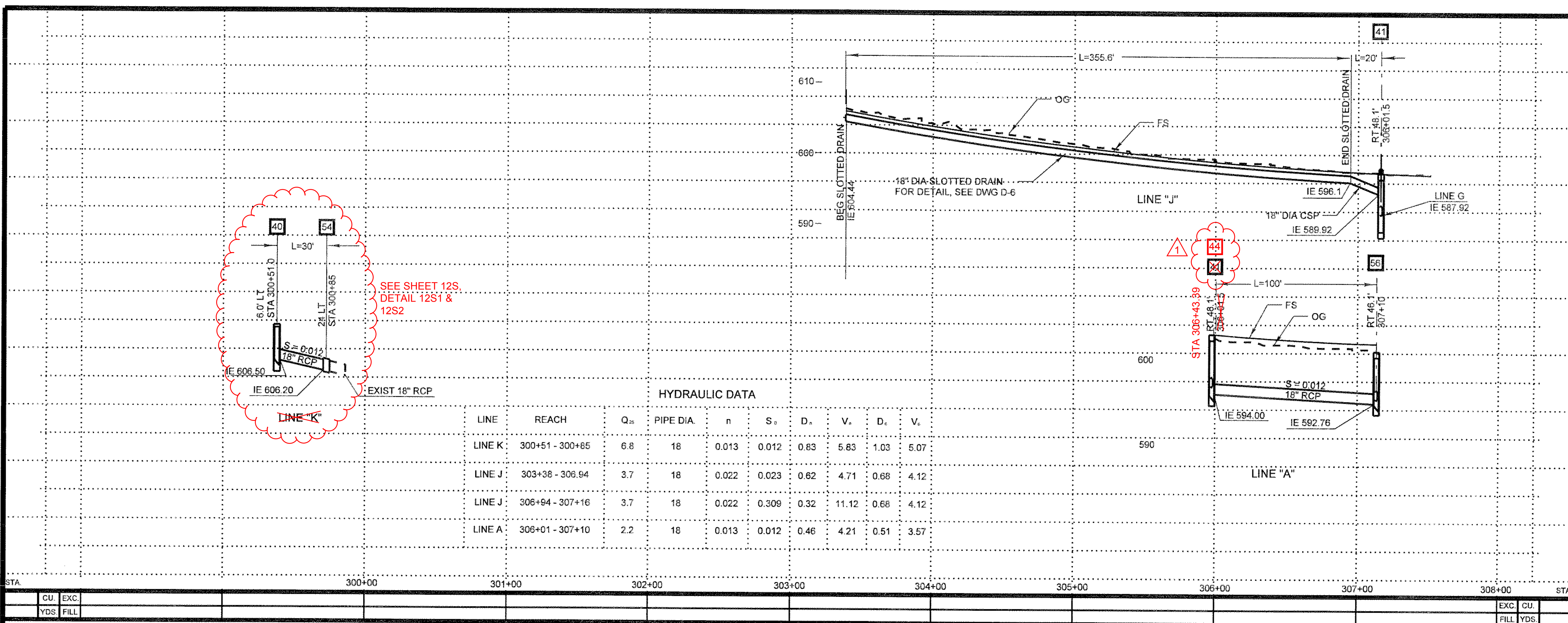
PLANS PREPARED BY: **HNTB**
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

PLAN 1" = 40'	
MARK	DATE
DESCRIPTION	
REVISIONS	
PREPARED UNDER RESPONSIBLE CHARGE OF:	
DESIGNED: J. NIESE	
DRAWN: M. KUNA	
CHECKED: J. SHON	
SCALE: AS SHOWN	
DATE: 11/18/05	
DRAWING NO. 11	
SHEET 11 OF 72	

ORANGE COUNTY
RESOURCES & DEVELOPMENT MANAGEMENT DEPT
ANTONIO PARKWAY
WILDLIFE
IMPROVEMENT PLANS
STA 294+00 TO 300+00
DRAINAGE PLANS
D-1

STEVEN B. STROM
NO. C 59687
EXP. 12-31-07
CIVIL
DATE OF EXPIRATION

File Name: \$DGN-FILE-NAMES



PROFILE
HORIZ. 1" = 40'
VERT. 1" = 8'

D-RATING

Line(s)	RCP Size	D-Rating
A, K	18"	1600
D, E	18"	2500
C, F, G, H	24"	1600

AS BUILT

CORRECTION BY: MN

CONTRACT NO.: ER28121

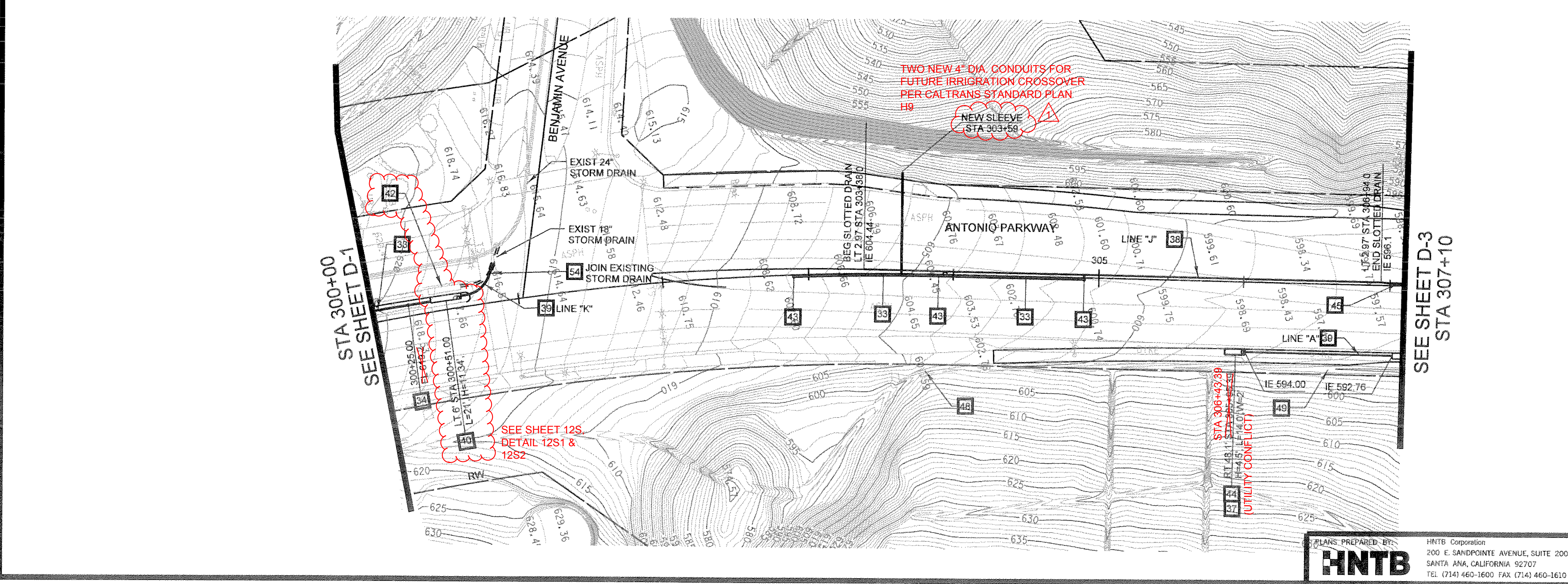
DATE: 12/30/2009

HYDRAULIC DATA

LINE	REACH	Q ₂₅	PIPE DIA.	n	S _p	D ₁	V ₁	D ₂	V ₂
LINE K	300+51 - 300+85	6.8	18	0.013	0.012	0.83	5.83	1.03	5.07
LINE J	303+38 - 306+94	3.7	18	0.022	0.023	0.62	4.71	0.68	4.12
LINE J	306+94 - 307+16	3.7	18	0.022	0.309	0.32	11.12	0.68	4.12
LINE A	306+01 - 307+10	2.2	18	0.013	0.012	0.46	4.21	0.51	3.57

CONSTRUCTION NOTES

- 33 INSTALL 8" PVC
- 34 INSTALL MEDIAN GRATE INLET, SEE DETAIL A, SHT D-5
- 37 INSTALL MODIFIED LOCAL DEPRESSION. SEE SHEET D-5.
- 38 INSTALL SLOTTED DRAIN. SEE DETAILS ON D-6
- 39 INSTALL 18" RCP
- 40 CONSTRUCT INLET TYPE II PER R.D.M.D. STD PLAN 1302
- 41 CONSTRUCT JUNCTION STRUCTURE TYPE I PER R.D.M.D. STD PLAN 1310 (FIELD VERIFY H)
- 42 REMOVE EXIST CB
- 43 INSTALL MEDIAN GRATE INLET, SEE DETAIL B, SHT D-5
- 44 CONSTRUCT MODIFIED TYPE II INLET WITH WATER QUALITY EQUIPMENT PER DETAIL ON SHEET D-7
- 45 INSTALL 18" CSP (10 GAGE) WITH 10 GAGE TAPERED SPACER
- 48 PROTECT-IN-PLACE EXIST TERRACE DRAIN
- 49 REMOVE EXISTING TERRACE DRAIN
- 54 CONSTRUCT CONCRETE COLLAR PER RDMD STD PLAN 1317



PLAN
1" = 40'

ORANGE COUNTY
RESOURCES & DEVELOPMENT MANAGEMENT DEPT

ANTONIO PARKWAY
WILDLIFE
IMPROVEMENT PLANS

STA 300+00 TO 307+10
DRAINAGE PLAN
D-2

1/23/07 BULLETIN #1

REVISIONS

PREPARED UNDER RESPONSIBLE CHARGE OF:

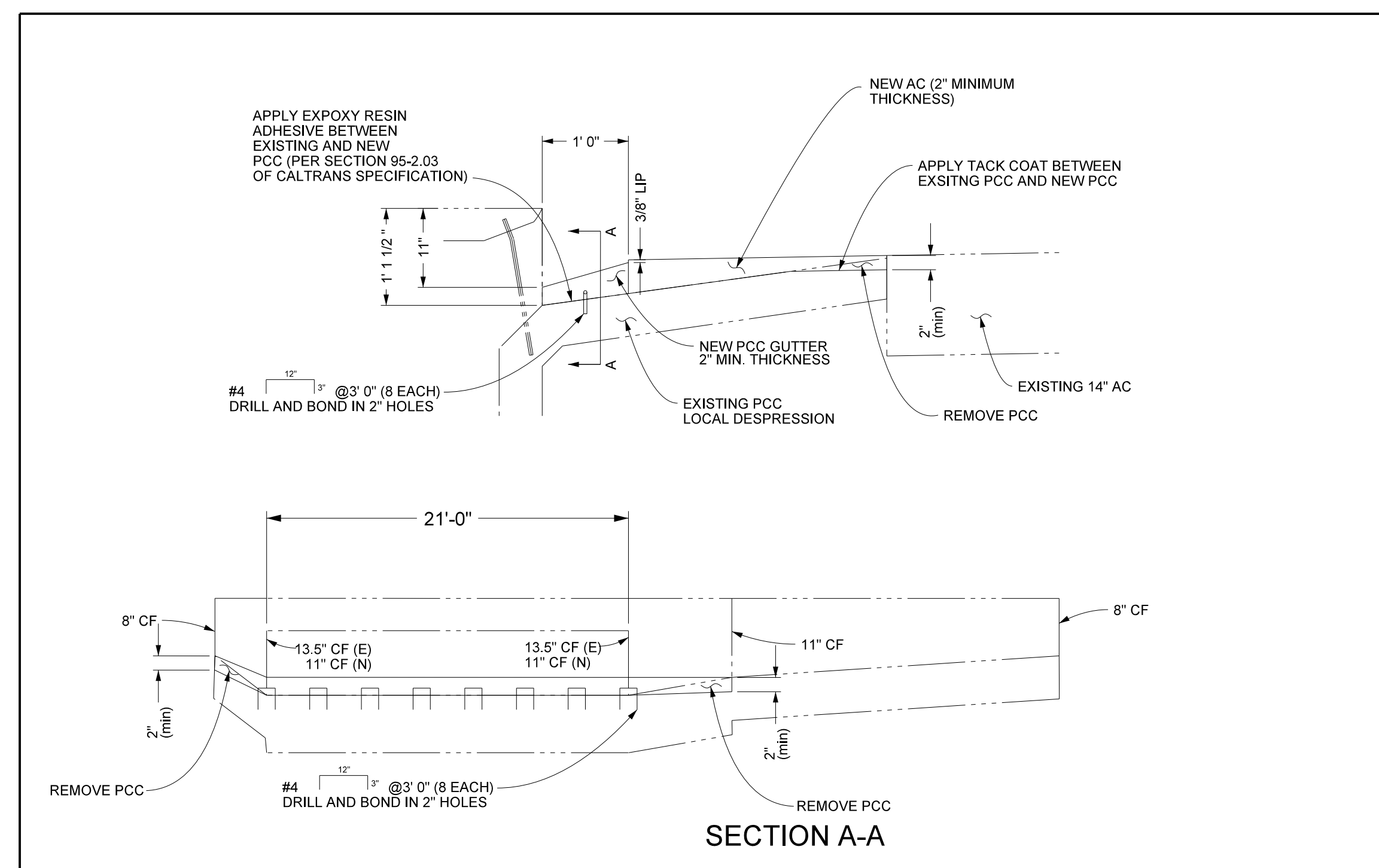
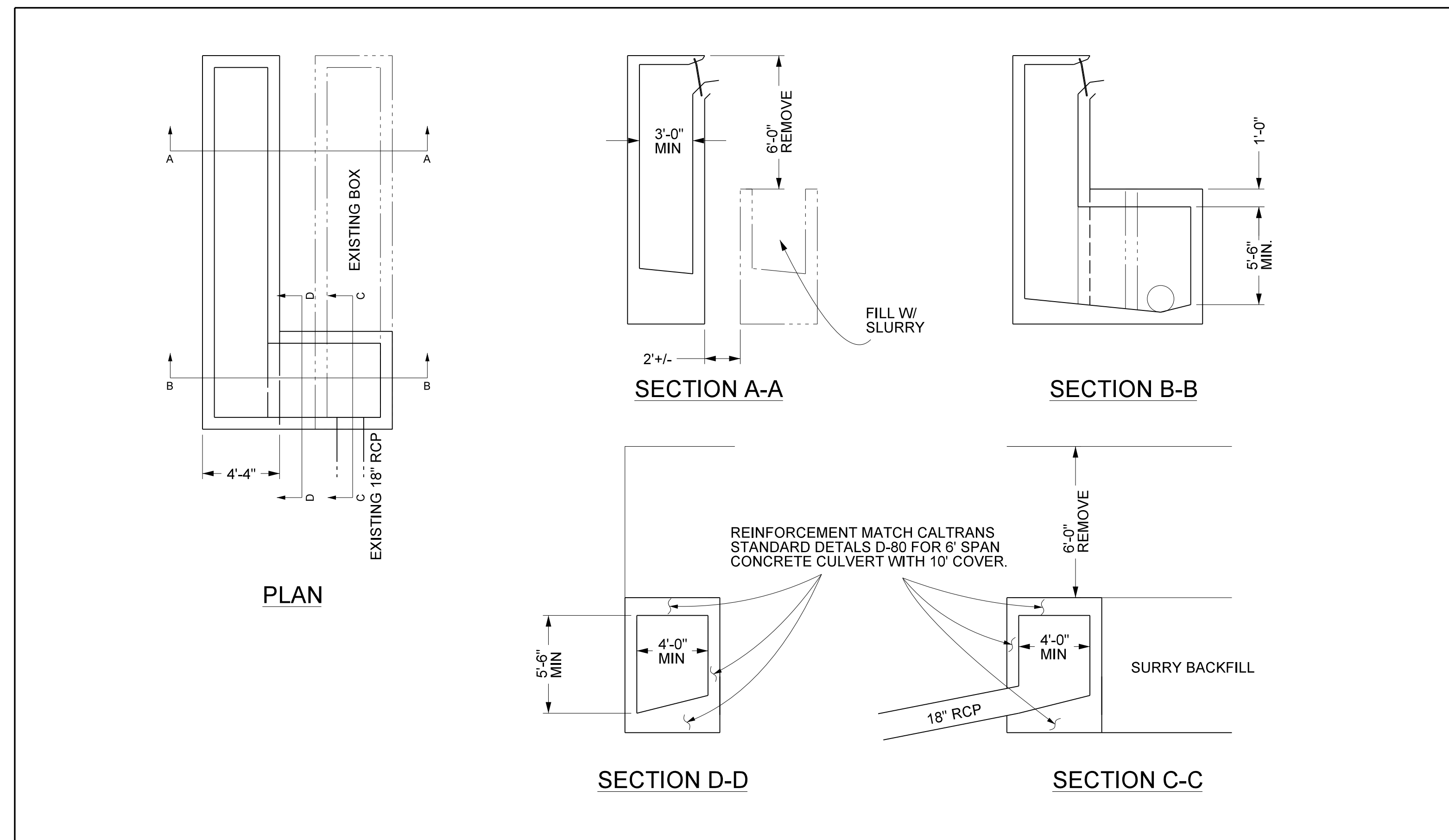
STEVEN B. STROH
C. 59887
EXP. 12-31-07
CIVIL
STATE OF CALIFORNIA

DESIGNED: R. NIESE
DRAWN: N. RUNDA
CHECKED: S. STROH

SCALE: AS SHOWN
DATE: 11/16/05
DRAWING NO.:
SHEET: 12 OF 72

Date Plotted: dd-mm-yyyy hh:mm
File Name: \$DCN-FILE-NAME\$

PLANS PREPARED BY:
HNTB
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610




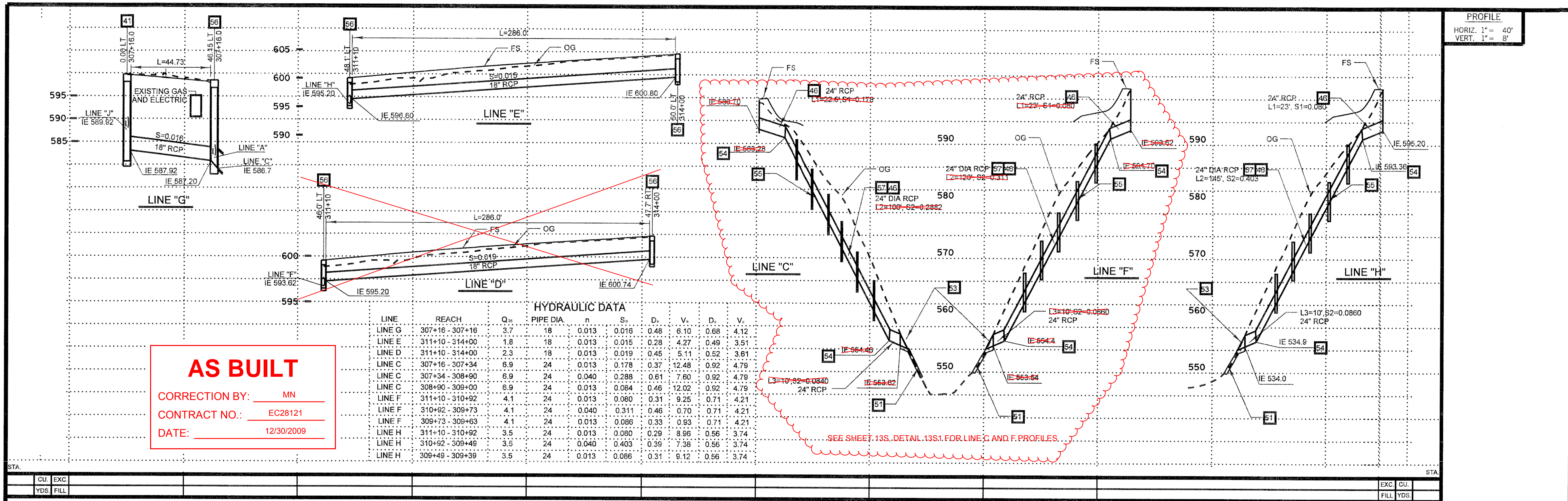
AS BUILT

CORRECTION BY: MN

CONTRACT NO.: ER28121

DATE: 12/30/2009

PLAN 1" =		DATE: _____ 12/30/2009	
		ORANGE COUNTY PUBLIC FACILITIES AND RESOURCES DEPARTMENT	
		ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)	
MARK	DATE	DESCRIPTION	
REVISIONS			
PREPARED UNDER RESPONSIBLE CHARGE OF: <div style="display: flex; align-items: center; justify-content: center;">  <div style="margin-left: 20px;"> NO. _____ EXP. _____ _____ CIVIL </div> </div> <div style="text-align: right; margin-top: 10px;">DATE _____</div>			
		STA 300+00 TO 307+10 DRAINAGE PLAN D-2	
		SHEET	
		12S	
		OF 72	
		DESIGNED _____ DRAWN _____ CHECKED _____ <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">SCALE AS SHOWN</div> <div style="text-align: center;">DATE</div> <div style="text-align: center;">DRAWING NO.</div> </div>	



CONSTRUCTION NOTES

- 37 INSTALL MODIFIED LOCAL DEPRESSION. SEE DETAIL, SHEET D-5.
- 38 INSTALL 18" DIA RCP
- 40 CONSTRUCT INLET TYPE II PER R.D.M.D. STD PLAN 1302
- 41 CONSTRUCT JUNCTION STRUCTURE TYPE I PER R.D.M.D. STD PLAN 1310
- 44 CONSTRUCT MODIFIED TYPE II INLET WITH WATER QUALITY EQUIPMENT PER DETAIL ON SHEET D-7
- 45 INSTALL 18" CSP (10 GAGE) WITH 10 GAGE TAPERED SPACER
- 46 INSTALL 24" DIA RCP
- 47 INSTALL 24" DIA RCP 90° ELL (R=45')
- 48 PROTECT-IN-PLACE EXISTING TERRACE DRAIN
- 49 REMOVE EXIST TERRACE DRAIN
- 50 REMOVE INTERFERING PORTION OF EXISTING DOWN DRAIN. CUT TO CLEAN LINE.
- 51 CONSTRUCT RIP RAP SLOPE PROTECTION PER DETAIL ON DWG D-5
- 52 CONSTRUCT UNDERMEDIAN DRAIN PER A.P.W.A. STD PLAN 151, TYPE 2 INLET, S = 12", B=4'
- 53 CONSTRUCT ENERGY DISIPATOR PER A.P.W.A. STD PLAN 384-1, W=6'
- 54 CONSTRUCT CONCRETE COLLAR PER R.D.M.D. STD PLAN 1317
- 55 CONSTRUCT PIPE ANCHOR PER R.D.M.D. STD PLAN 1333
- 56 CONSTRUCT MODIFIED TYPE II INLET WITH WATER QUALITY EQUIPMENT AND REVERSE OUTLET, PER DETAIL ON SHEET D-7
- 57 CONSTRUCT VELOCITY CONTROL RINGS AT 12'-0" C. PER A.P.W.A. STD. PLAN 383-1. H=3' 8" O.C.
- 10 CONSTRUCT TERRACE DRAIN PER RDMD STD. PLAN 1321

PLAN

1" = 40'

ORANGE COUNTY
RESOURCES & DEVELOPMENT MANAGEMENT DEPT

ANTONIO PARKWAY
WILDLIFE
IMPROVEMENT PLANS

STA 307+10 TO 316+50
DRAINAGE PLAN
D-3

DESIGNED: F. GONZALEZ
DRAWN: N. BUSA
CHECKED: J. WEI

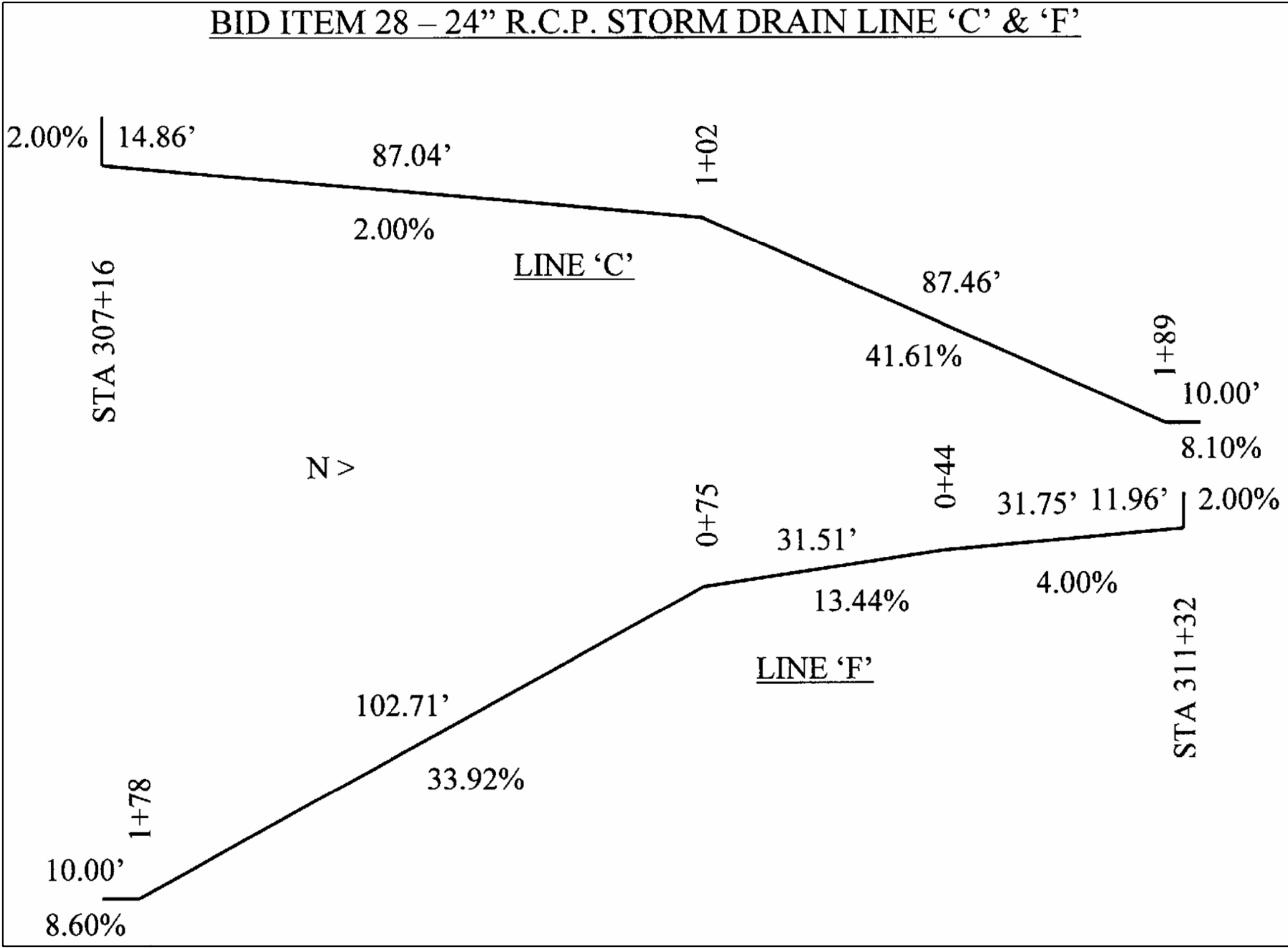
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DATE: 1/18/2009
DRAWING NO.: 13

OF 72

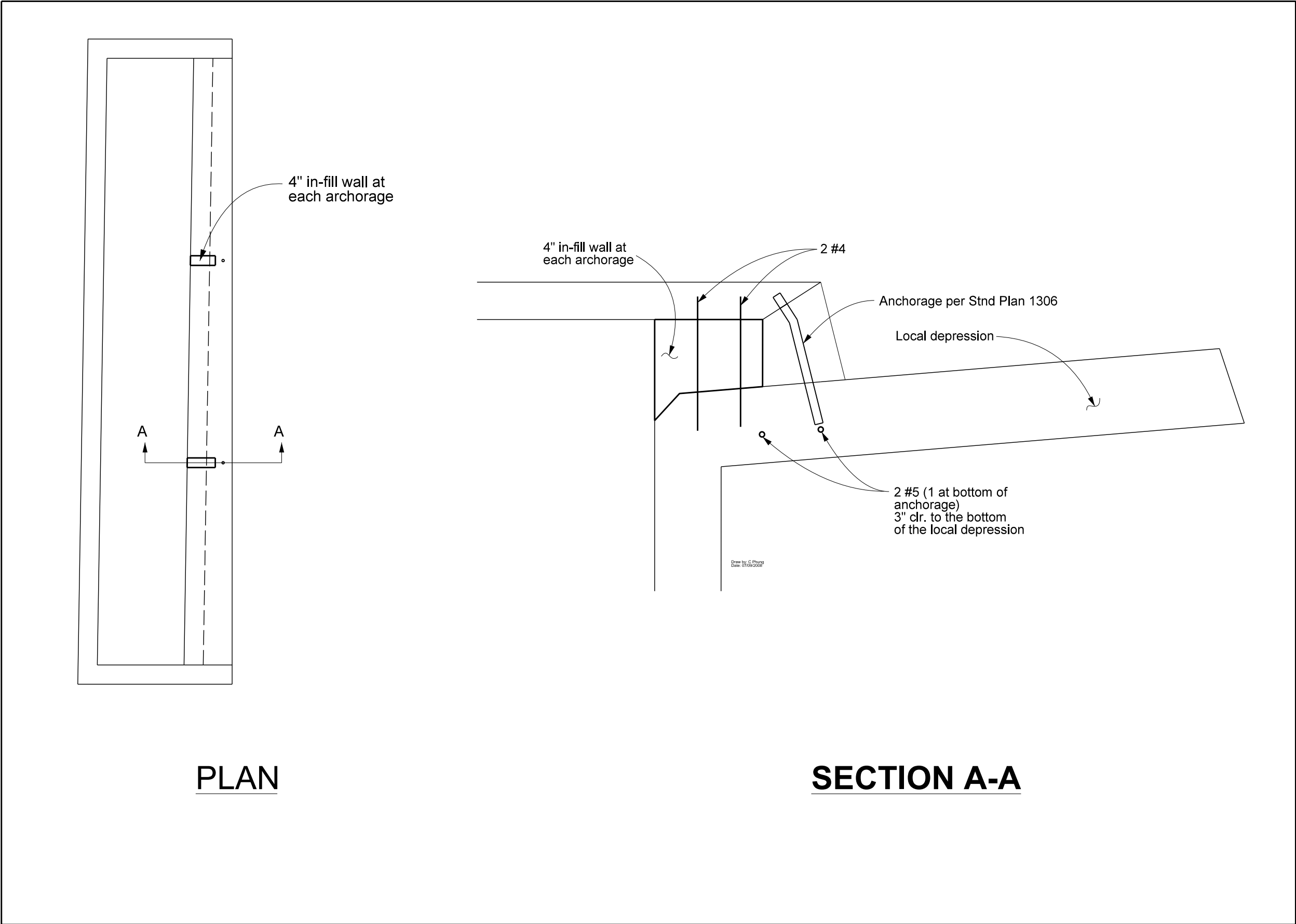
PLANS PREPARED BY: HNTB Corporation
200 E. SANDPOINT AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

DATE PLOTTED: dd-mmm-yyyy hh:mm

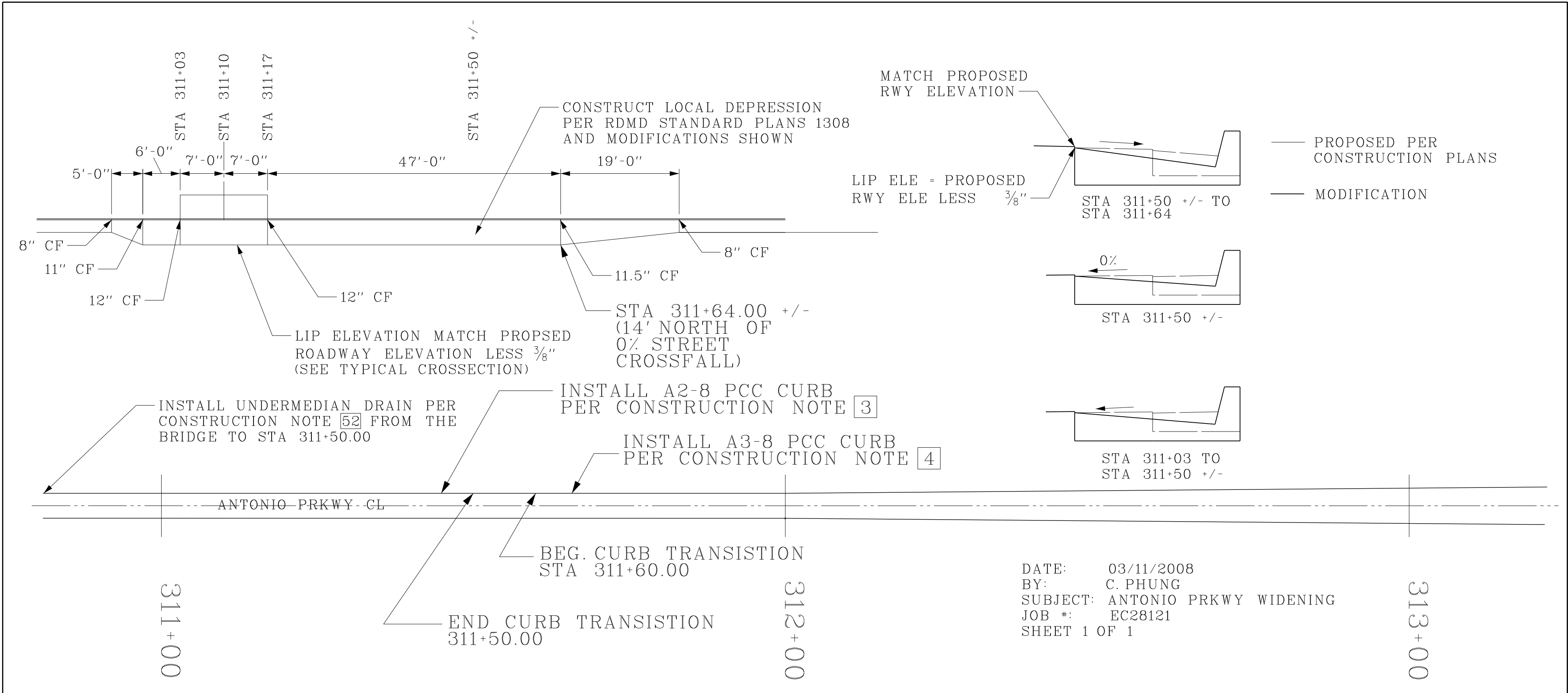
FILE NAME: \$DGN-FILE-NAME\$



13S2 - LINE C & F PROFILES



13S3 - INLET IN-FILL WALL



13S1 - MODIFIED DRAIN INLET & UNDERMEDIAN DRAIN ADDITION

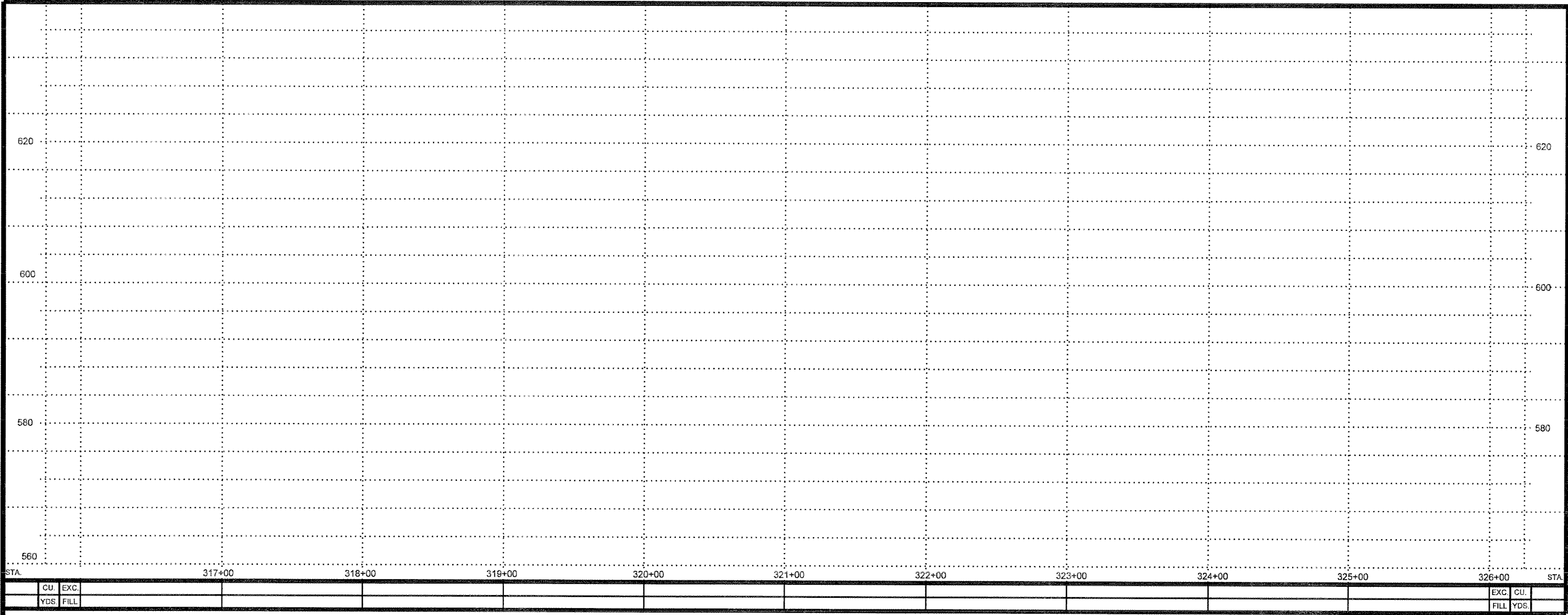
AS BUILT

CORRECTION BY: MN

CONTRACT NO.: ER28121

DATE: 12/30/2009

PLAN 1"=		ORANGE COUNTY PUBLIC FACILITIES AND RESOURCES DEPARTMENT	
		ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)	
		STA 307+10 TO 316+50 DRAINAGE PLAN D-3	
MARK	DATE	DESCRIPTION	
REVISIONS			
PREPARED UNDER RESPONSIBLE CHARGE OF:			
DESIGNED	DRAWN		CHECKED
SCALE AS SHOWN	DATE	DRAWING NO.	
SHEET 13S			OF 72



PROFILE
HORIZ. 1" = 40'
VERT. 1" = 4'

NO AS BUILT CHANGES

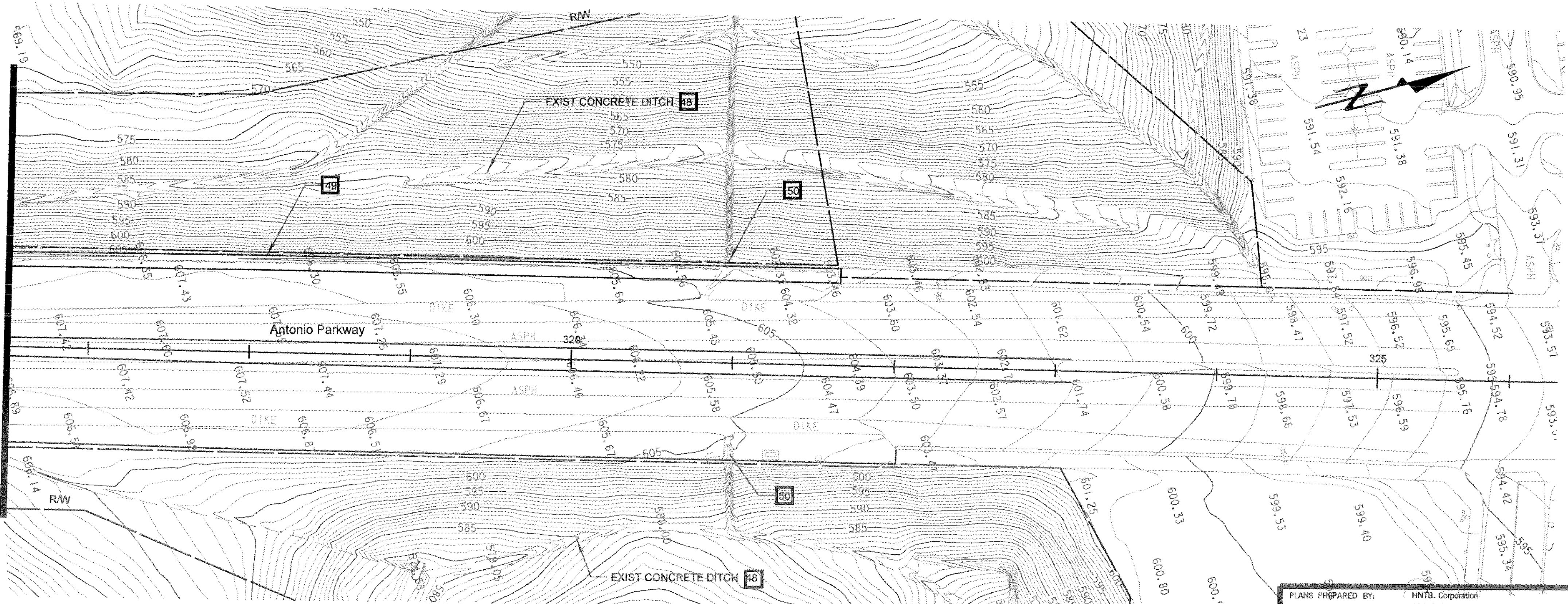
AS BUILT

CORRECTION BY: MN
CONTRACT NO.: EC28121
DATE: 12/30/2009

CONSTRUCTION NOTES

- 48 PROTECT-IN-PLACE EXISTING TERRACE DRAIN
- 49 REMOVE EXISTING TERRACE DRAIN
- 50 REMOVE INTERFERING PORTION OF EXISTING DOWN DRAIN. CUT TO CLEAN LINE.

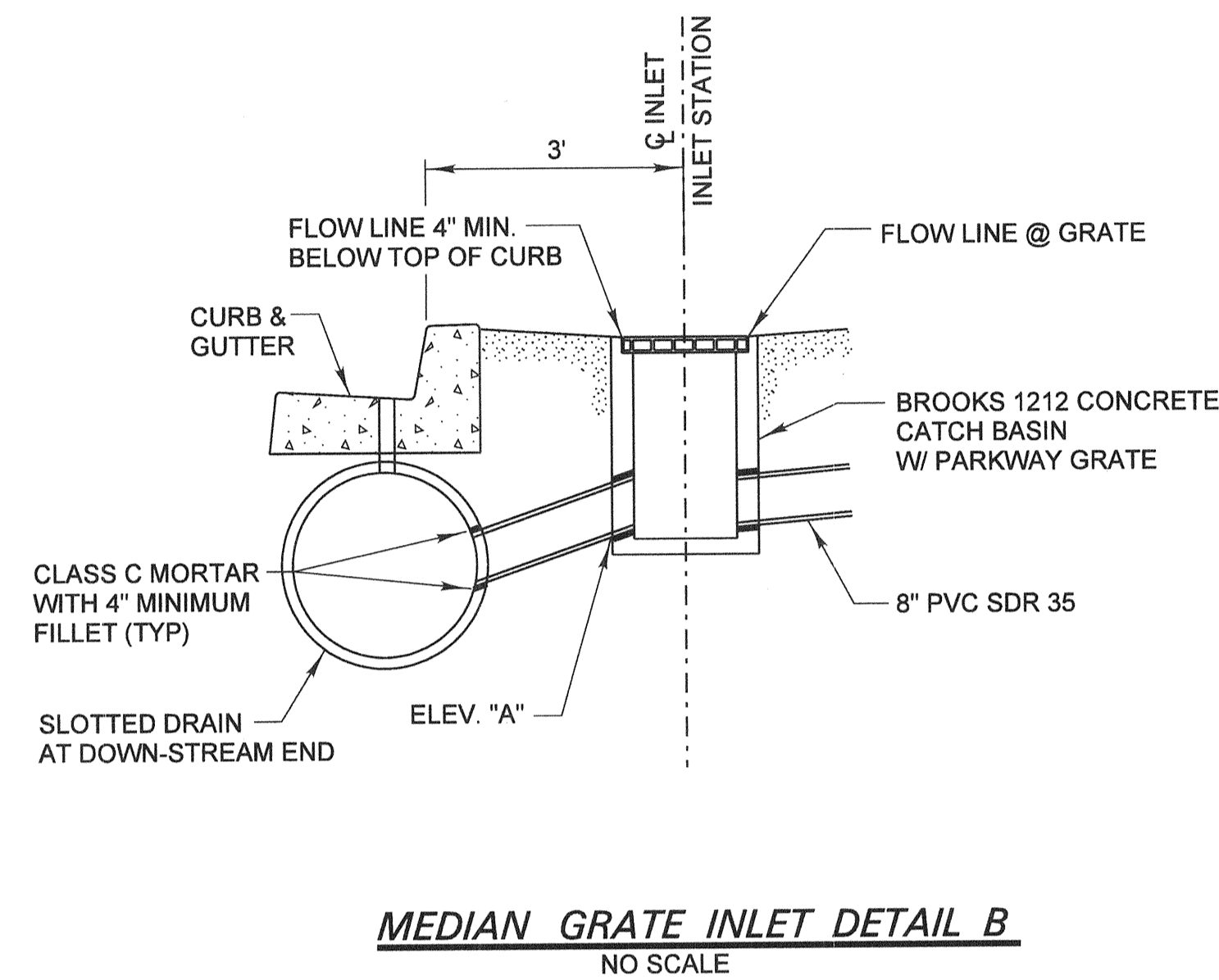
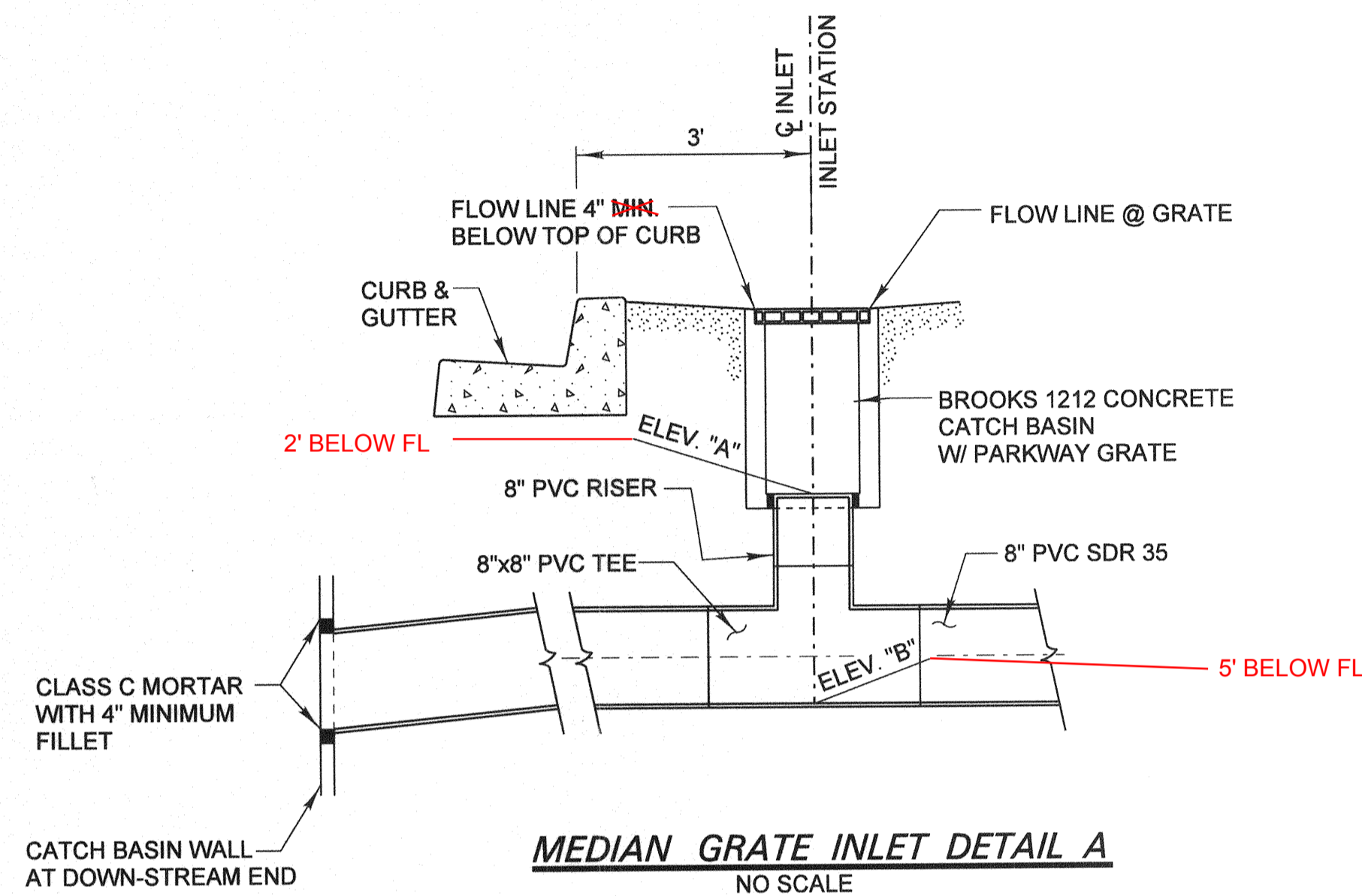
STA 316+50
SEE SHEET D-3



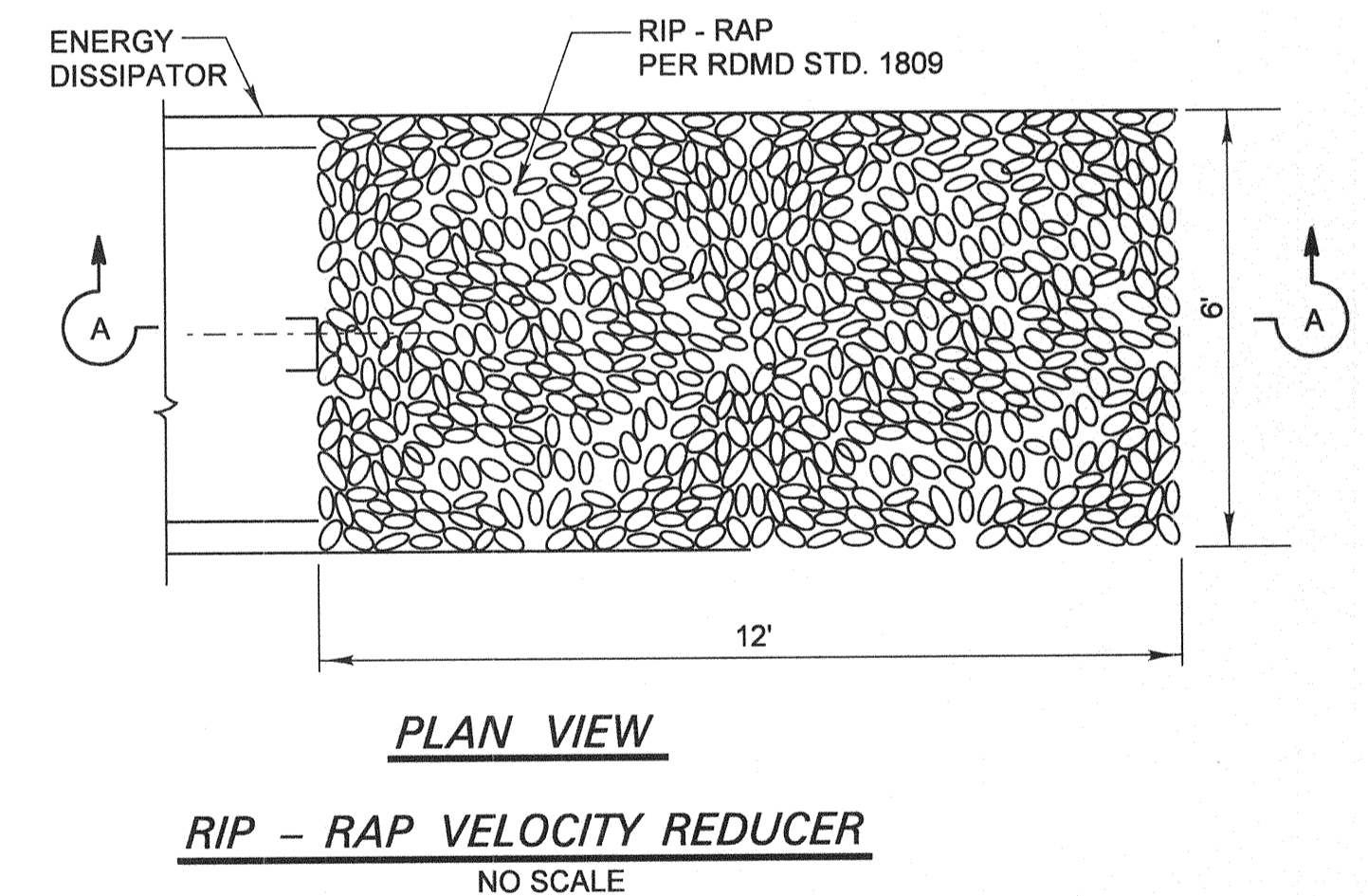
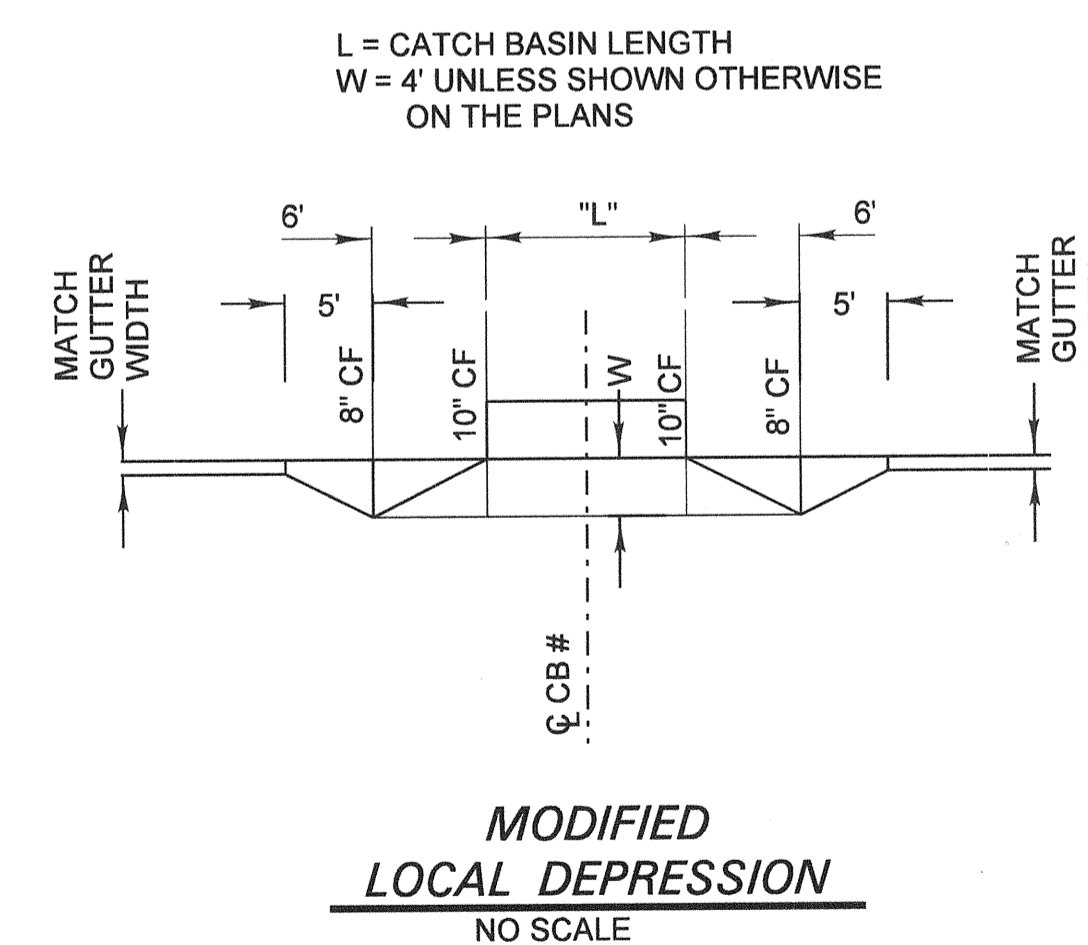
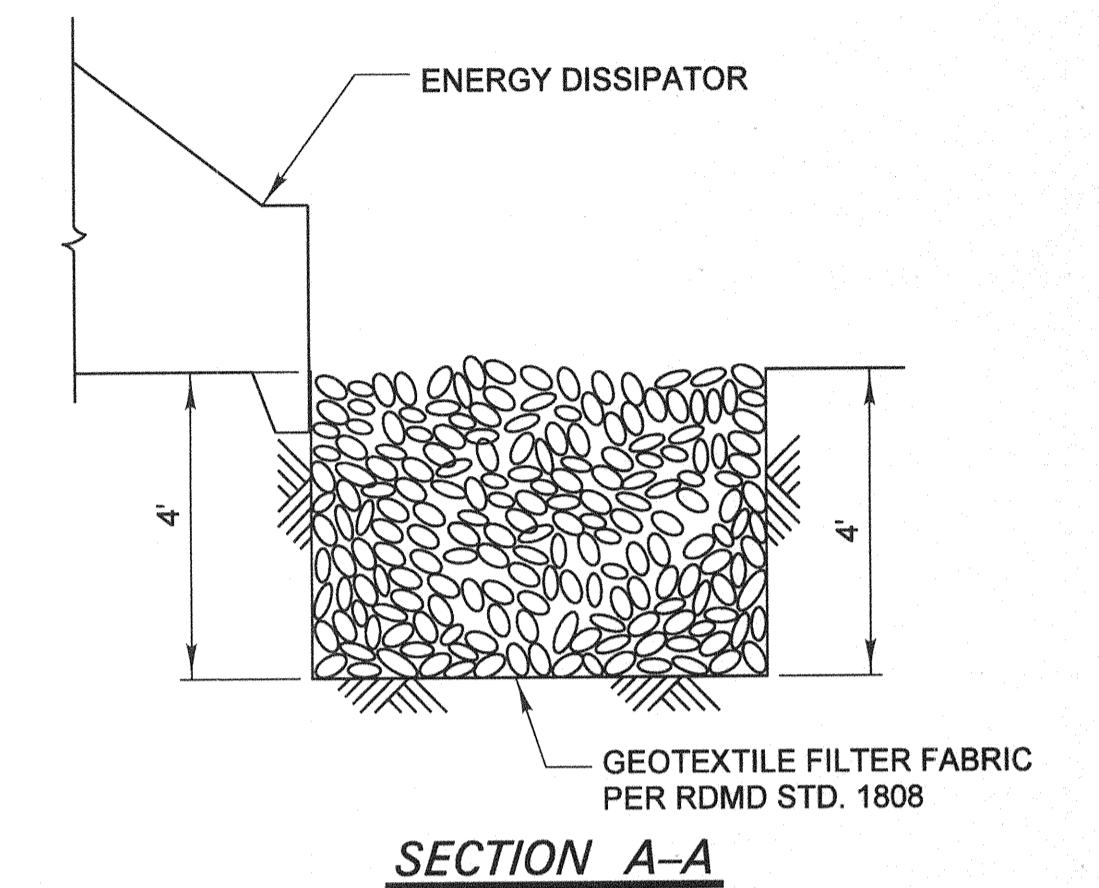
PLANS PREPARED BY:
HNTB
HNTB Corporation
200 E. SANDPOINT AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

PLAN 1" = 40'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS STA 316+50 TO 321+65 DRAINAGE PLAN D-4		SHEET 14 OF 72	
DESIGNED: J. NIEBE		CHECKED: S. STRONG	
DRAWN: N. BUDIA		DATE: 11/18/09	
SCALE: AS SHOWN		DRAWING NO.: 100	
DATE: 11/18/09		FILE NAME: SDGN-FILE-NAMES	

Date Plotted: dd-mmm-yyyy hh:mm



INLET STATION	FLOW LINE	ELEV. "A"	ELEV. "B"	SHEET	DETAIL
296+50.00	632.20	630.20	627.20	D-1	A
297+50.00	632.20	630.20	627.20	D-1	A
298+50.00	626.00	624.00	621.00	D-1	A
299+50.00	622.20	620.20	617.20	D-1	A
300+25.00	619.20	617.20	614.20	D-2	A
302+90.00	626.00	624.00		D-2	B
303+90.00	622.20	620.20		D-2	B
304+90.00	619.20	617.20		D-2	B



AS BUILT

CORRECTION BY: MN
 CONTRACT NO.: EC28121
 DATE: 12/30/2009

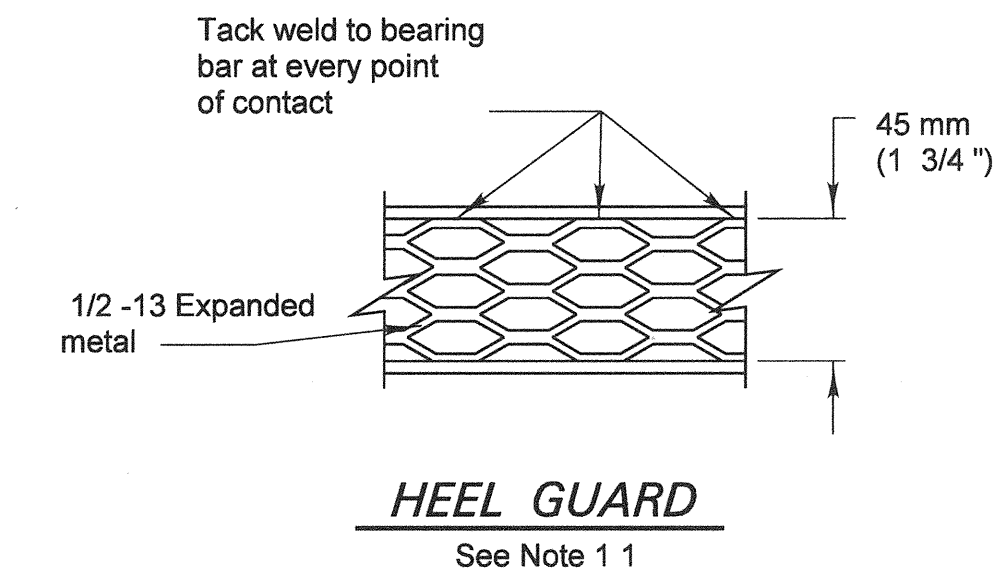
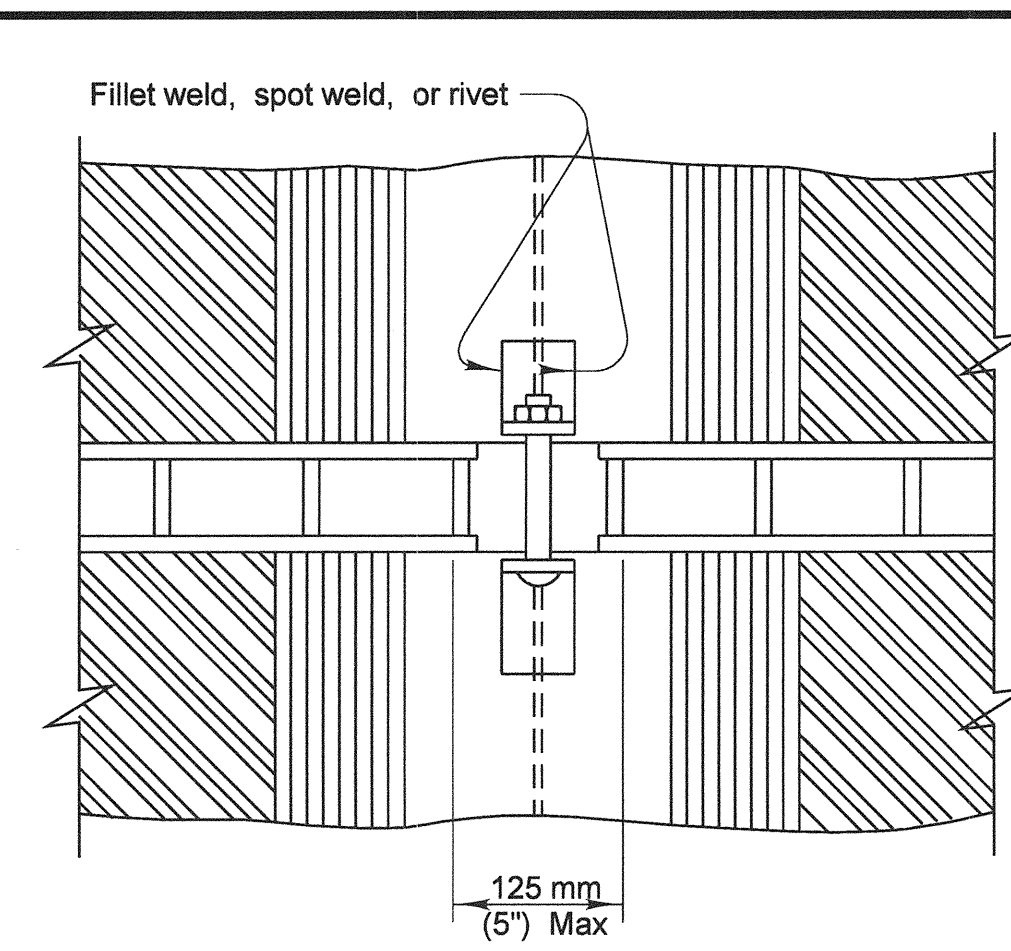
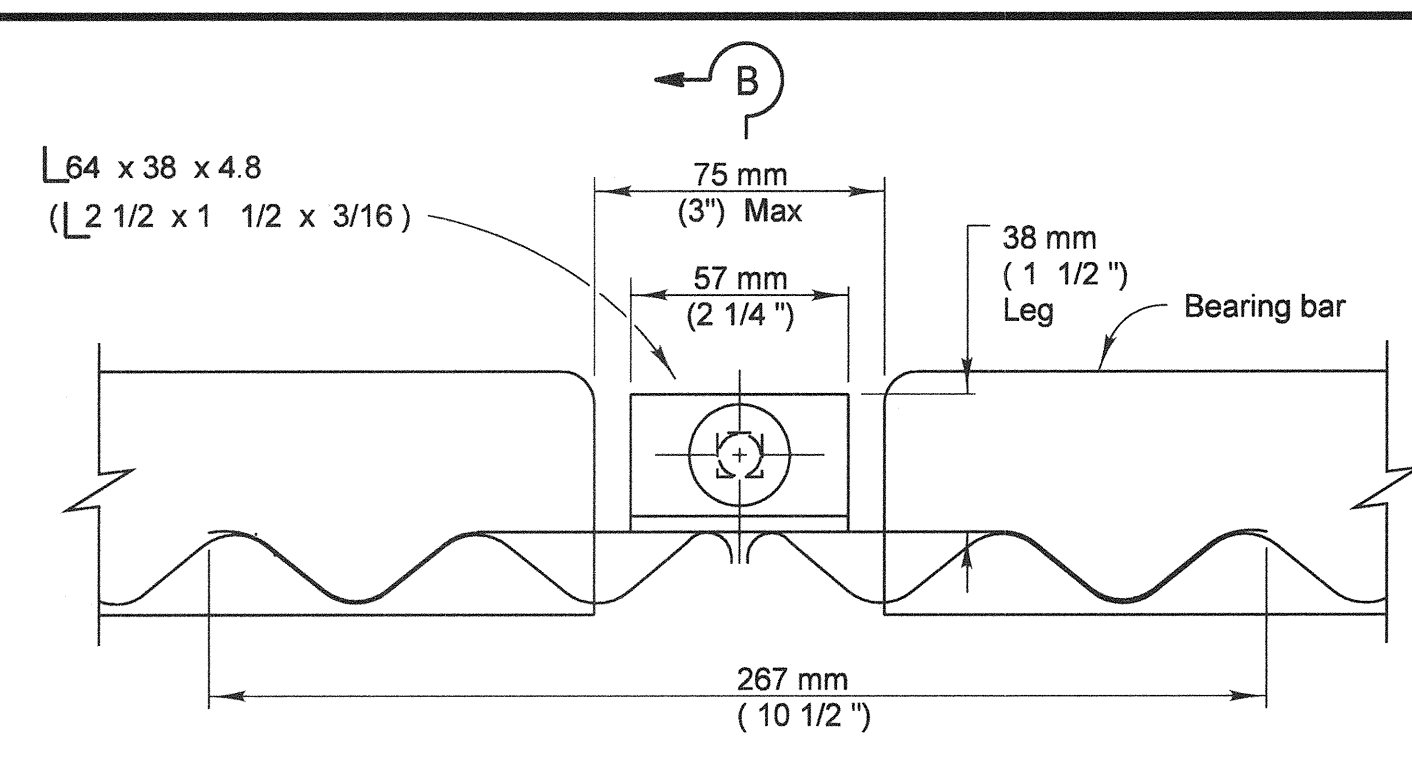
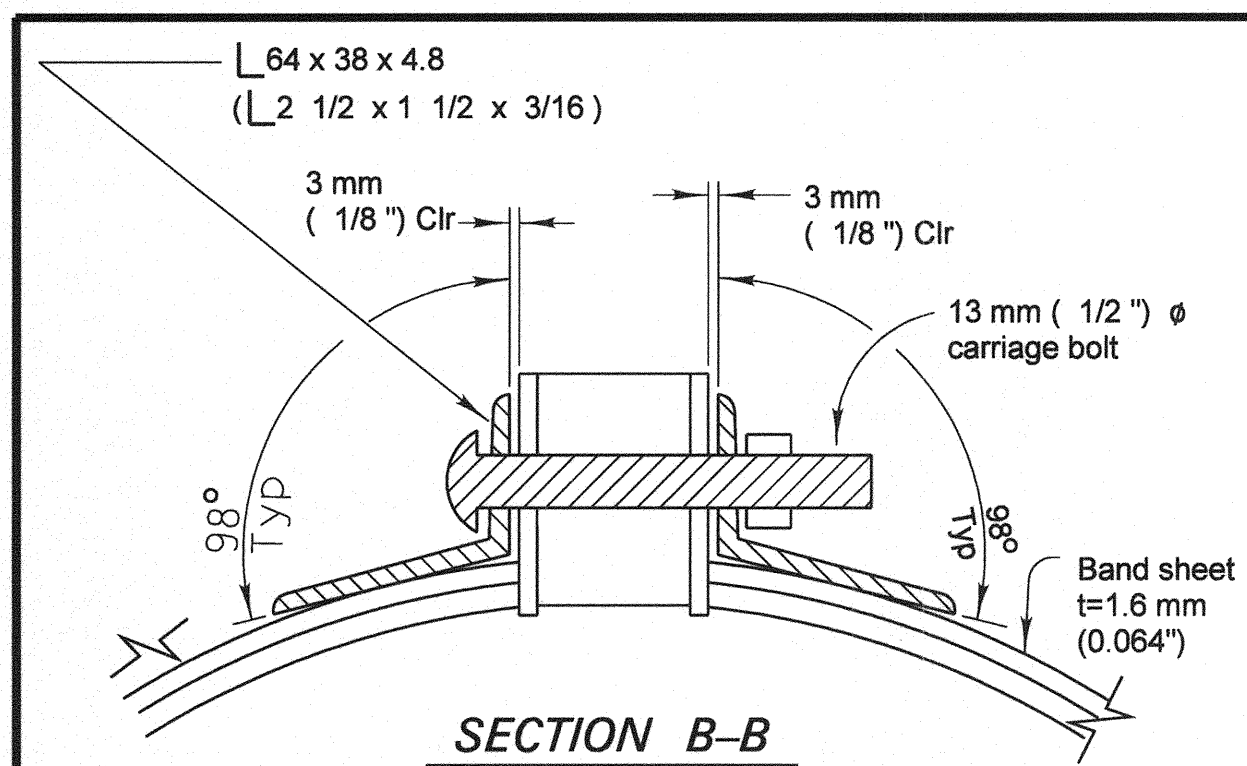
PLANS PREPARED BY: **HNTB** Corporation
 200 E. SANDPOINTE AVENUE, SUITE 200
 SANTA ANA, CALIFORNIA 92707
 TEL (714) 460-1600 FAX (714) 460-1610

PLAN 1" = 40'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
		ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS	
		DRAINAGE DETAILS D-5	
DESIGNED	R. NIERE	CHECKED	S. STROH
DRAWN	N. BUNIA	CHECKED	S. STROH
SCALE	DATE	DRAWING NO.	
AS SHOWN	11/18/05	xxx	
SHEET 15		OF 72	

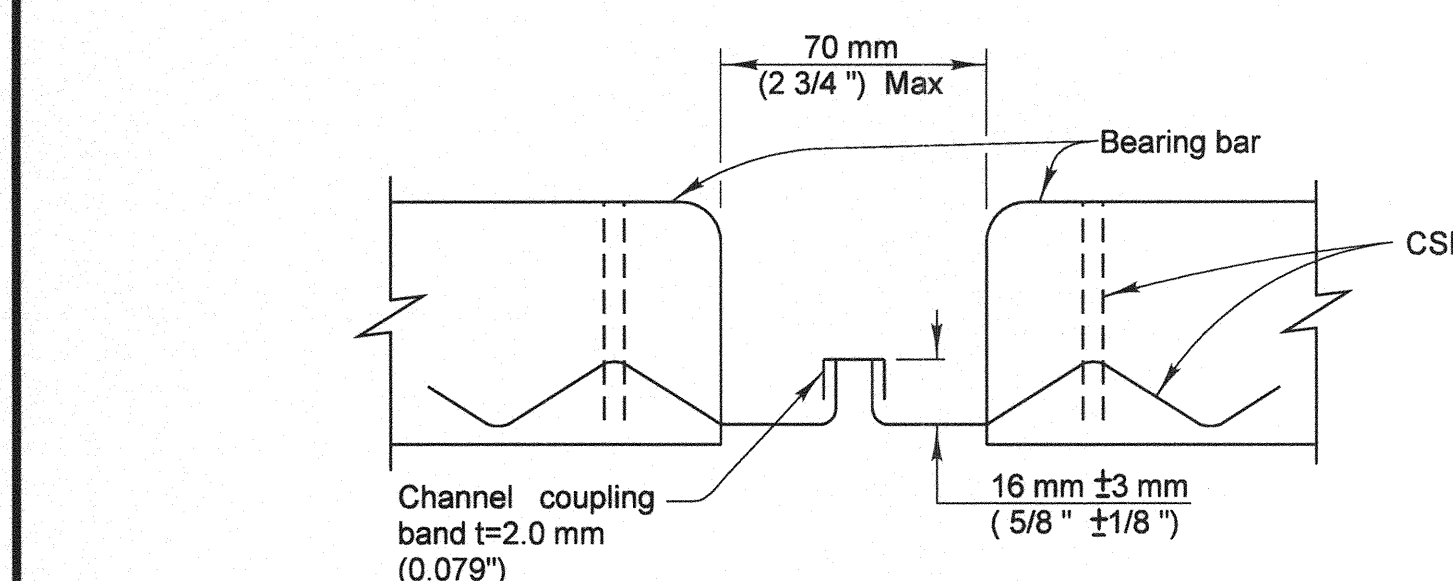
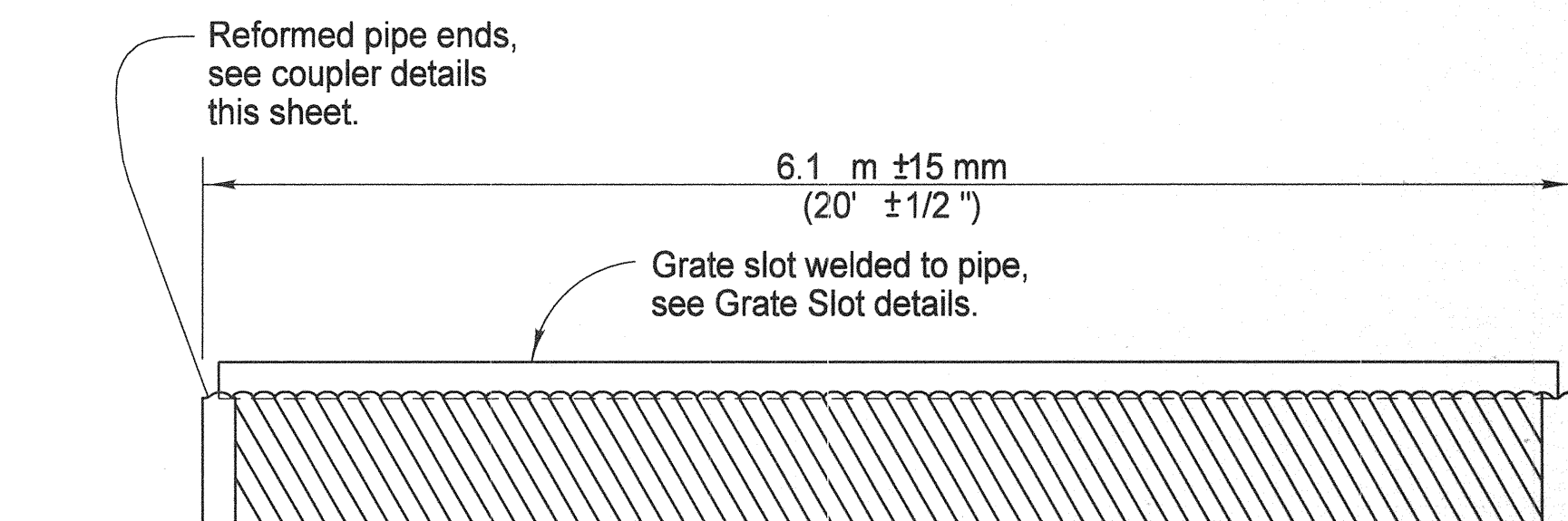
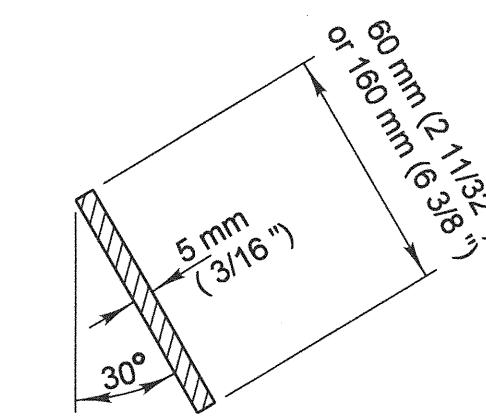
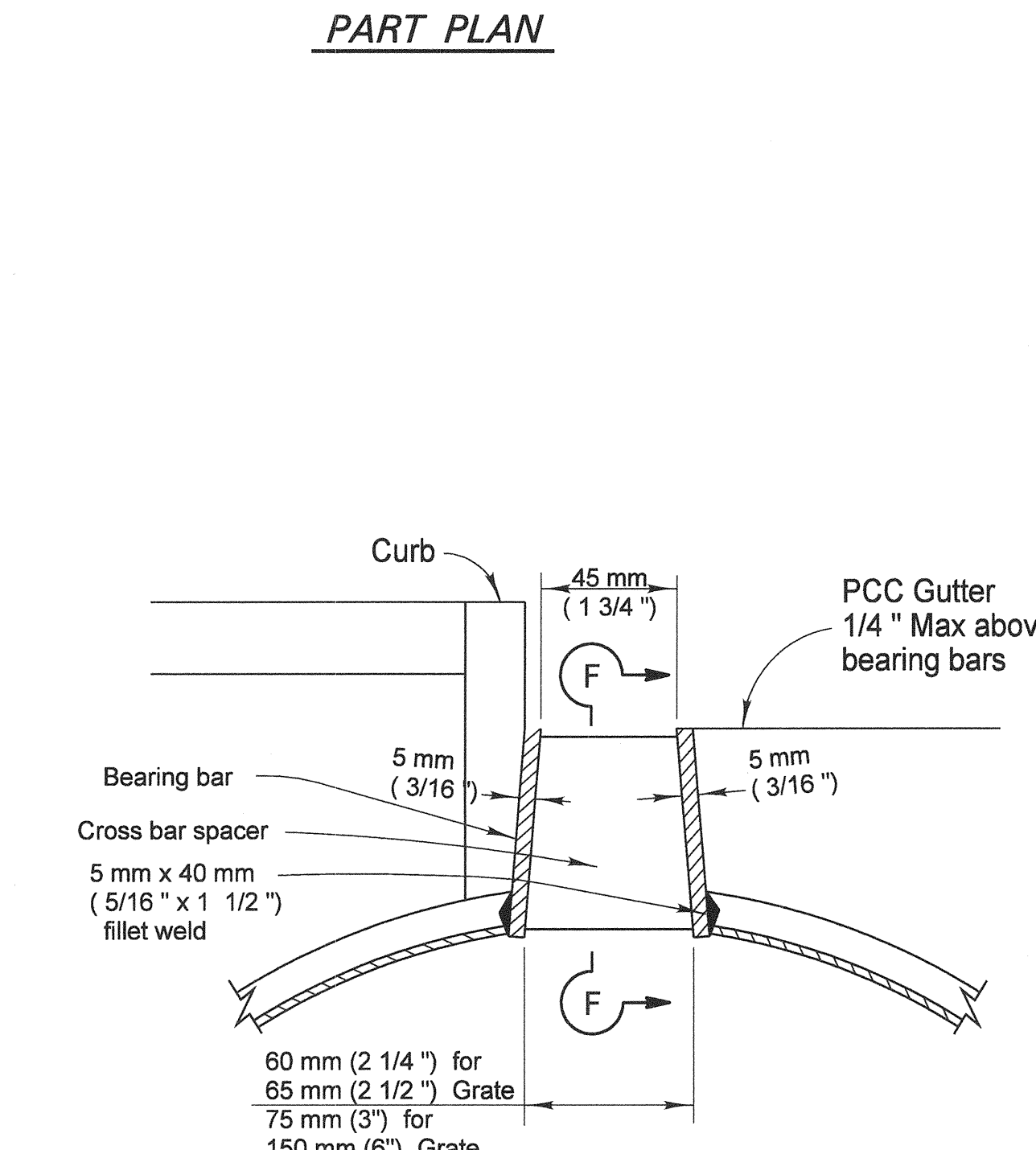
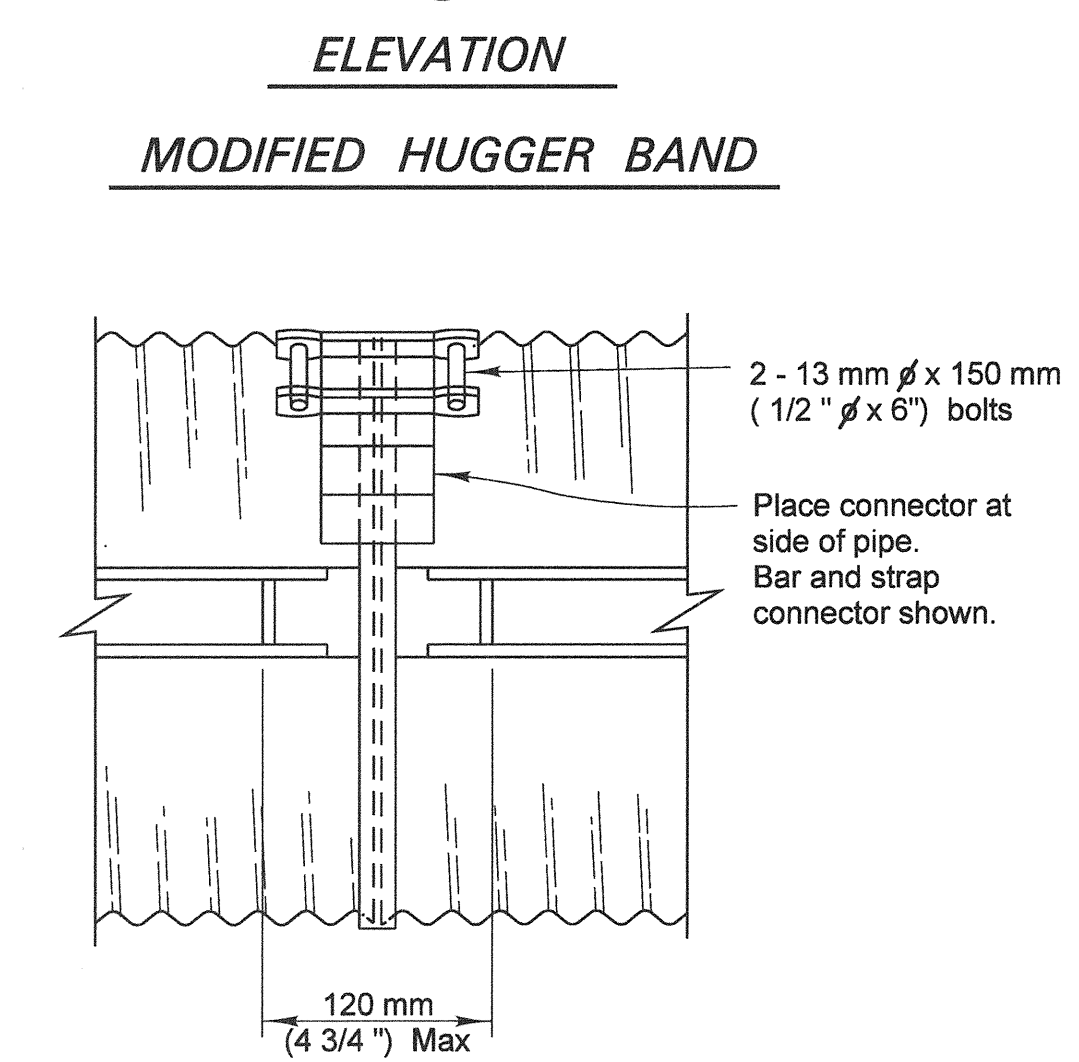
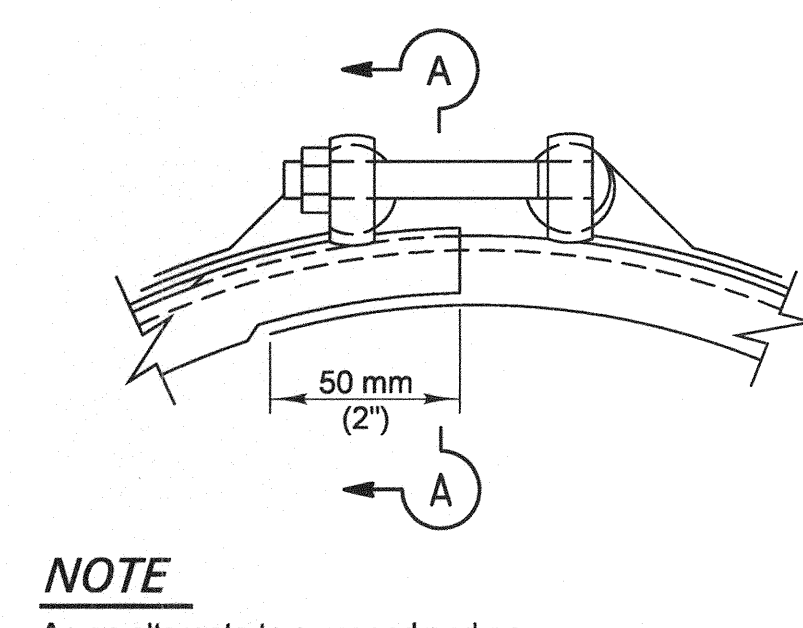
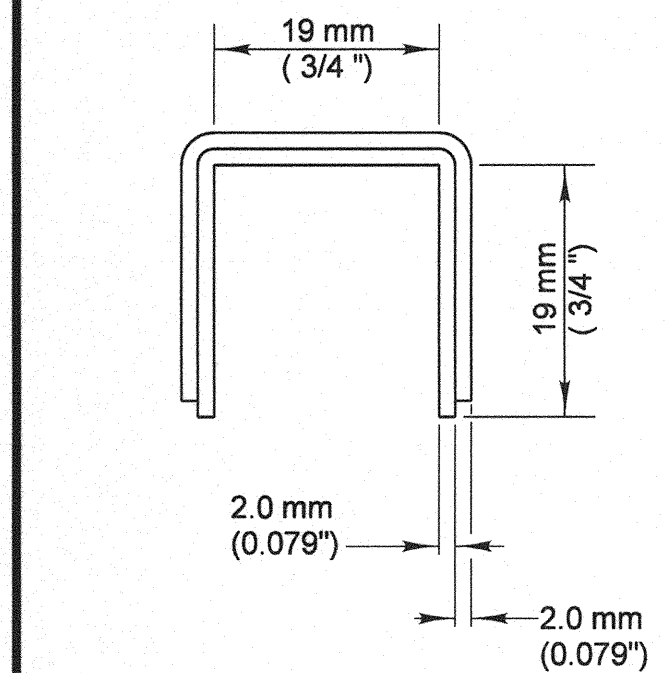
Date Plotted: 20 October, 2006 05:41

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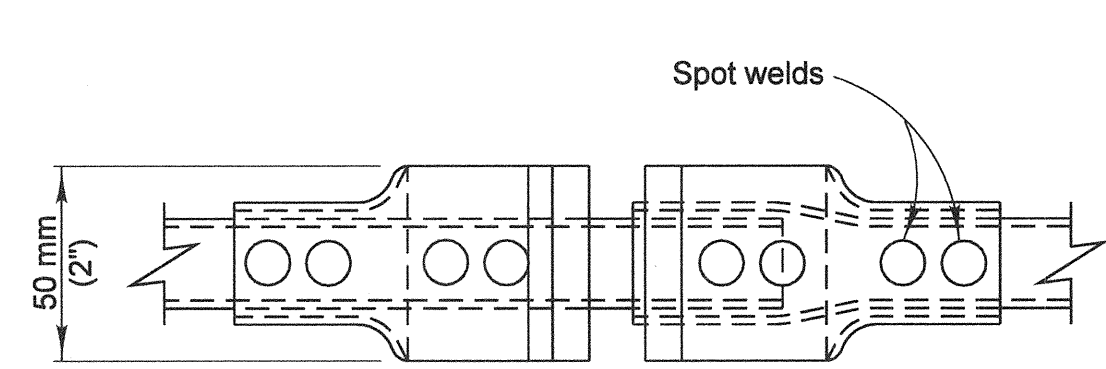
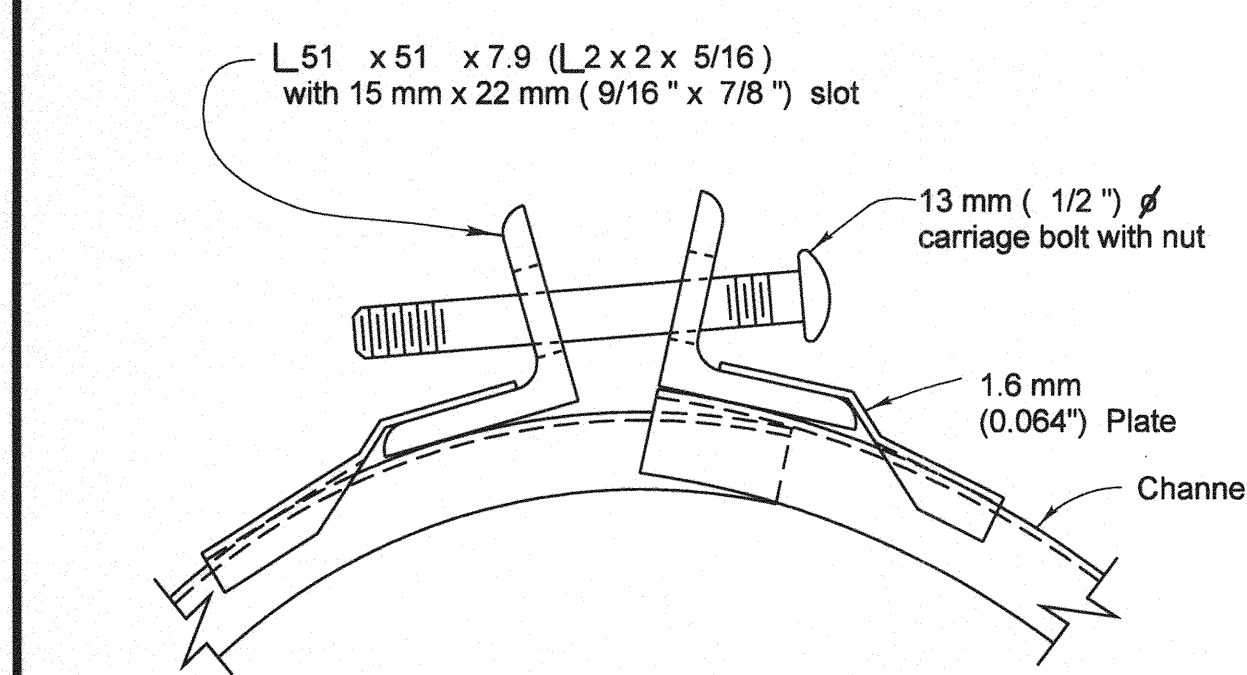
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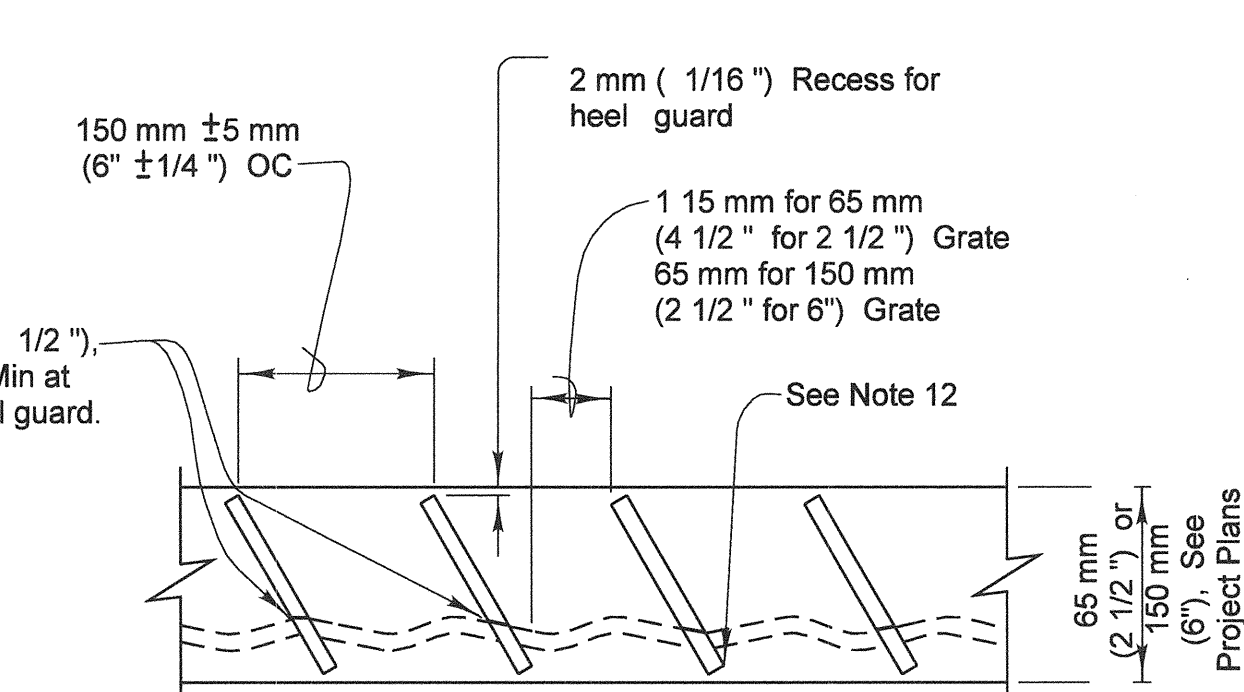
- NOTES**
1. Drain pipe seams may be continuous helical lock seam or helical weld seam.
 2. Drain sections shall be assembled with positive joint coupling band per CALTRANS STD PLAN D97C and D97F.
 3. The cross bar spacer shall be welded to the bearing bars in such a manner as to develop a minimum tensile strength of 12,000 LBS normal to the longitudinal axis of the bearing bars.
 4. The maximum variance from a straight line between the extreme top corners of the bearing bars shall be 1/2" in 20'.
 5. All coupling band connections shall be galvanized or coated in accordance with the Standard Specifications.
 6. Spot welds shall develop minimum required strength of strap.
 7. Dimensions shown are minimum.
 8. Contractor to provide an adequate method of keeping the asphalt concrete out of pipe, during paving operations.
 9. Minimum pipe wall thickness is 1/16".
 10. Use heel guard.
 11. Bottom edge of cross bar spacer offset in direction of flow.
 12. Cross bar spacers shall be tapered.



BAR & STRAP CONNECTOR
See Standard Plan D97A



Min weld length - 40 mm (1 1/2"), weld size - 5 mm (3/16") Min at each cross bar. Include heel guard.



GRATE SLOT-LONGITUDINAL ELEVATION VIEW
PER CALTRANS STD. PLAN D98B

NO AS BUILT CHANGES

AS BUILT

CORRECTION BY: MM

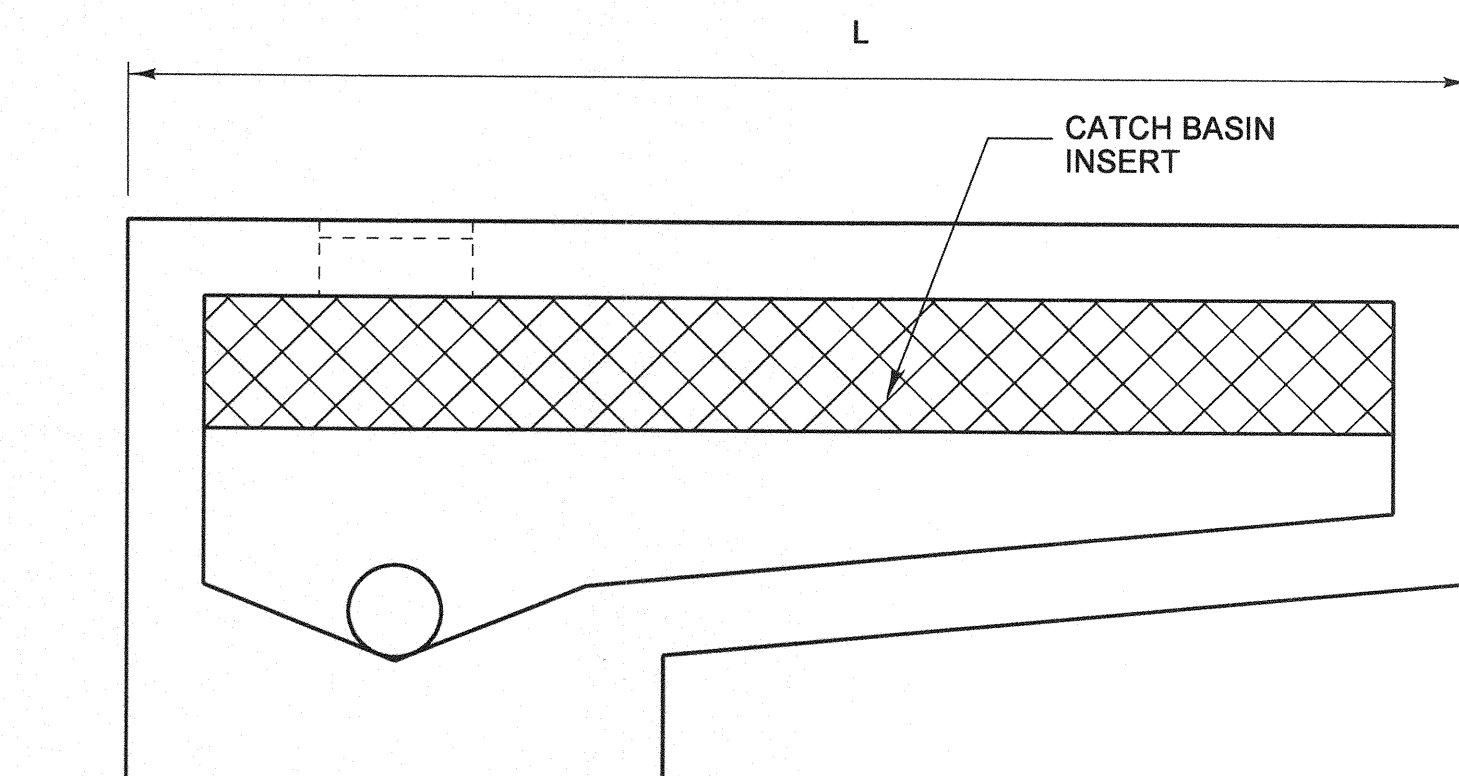
CONTRACT NO.: EC28121

DATE: 12/30/2009

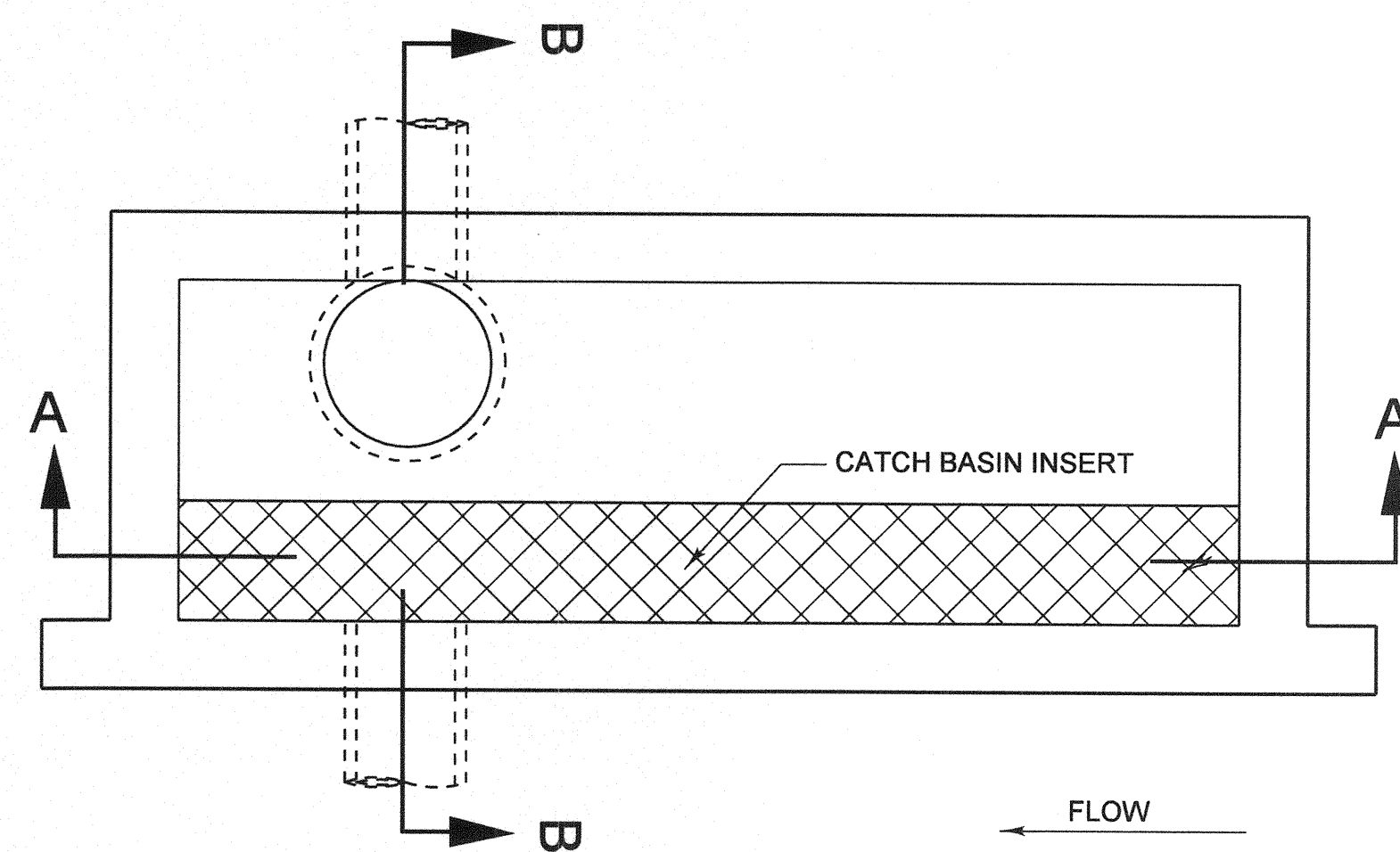
PLANS PREPARED BY: **HNTB**

HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

PLAN 1" = 40'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS		SLOTTED DRAIN DETAILS D-6	
DESIGNED: R. NIERE	CHECKED: S. STROH	SHEET 16 OF 72	
DRAWN: N. BUNIA	DATE: 11/18/05	DRAWING NO. xxx	
PREPARED UNDER RESPONSIBLE CHARGE OF: STEVEN B. STROH RCE C 59687 (EXP. 12-31-07)		DATE: 10/31/06	



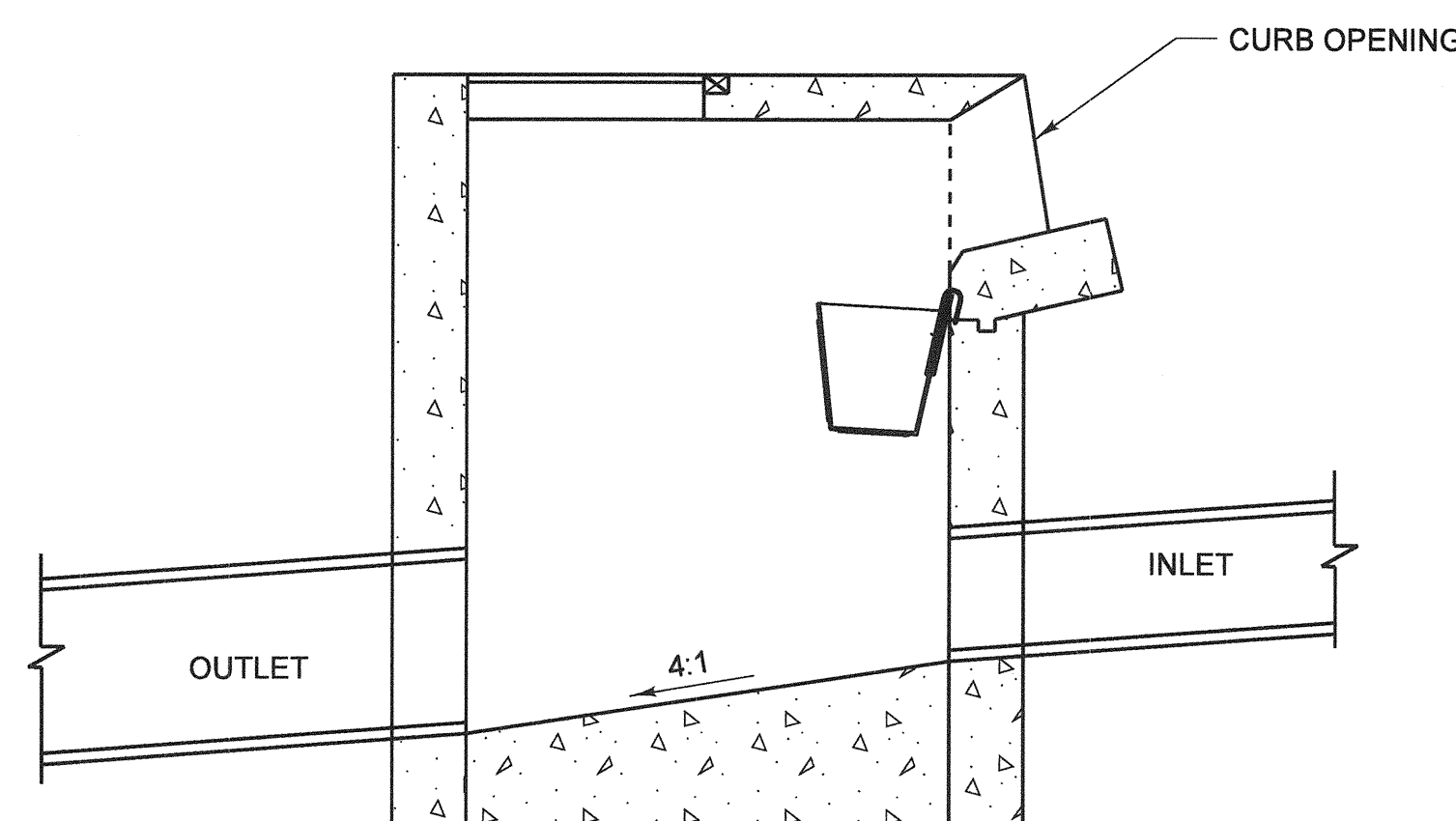
SECTION A-A
NTS



PLAN VIEW
NTS

MODIFIED TYPE II INLET WITH WATER QUALITY EQUIPMENT

1. CONSTRUCTION TO CONFORM TO RDMD STANDARD PLAN 1302, INLET TYPE II EXCEPT AS NOTED.
2. CATCH BASIN INSERT TO BE DESIGNED TO CAPTURE SEDIMENT DEBRIS, TRASH AND OILS/GREASE FROM LOW (FIRST FLUSH) FLOWS.
3. CATCH BASIN INSERT TO BE APPROVED BY THE COUNTY'S RESIDENT ENGINEER PRIOR TO INSTALLATION.



SECTION B-B
NTS

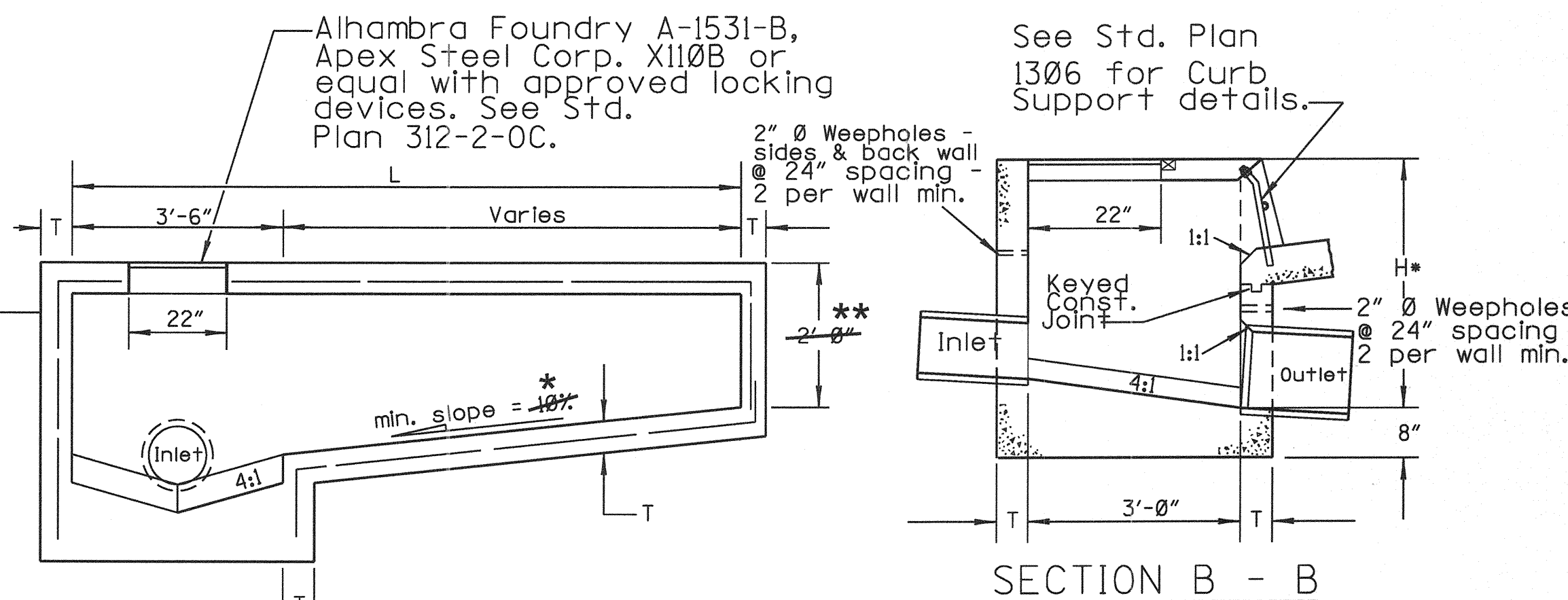
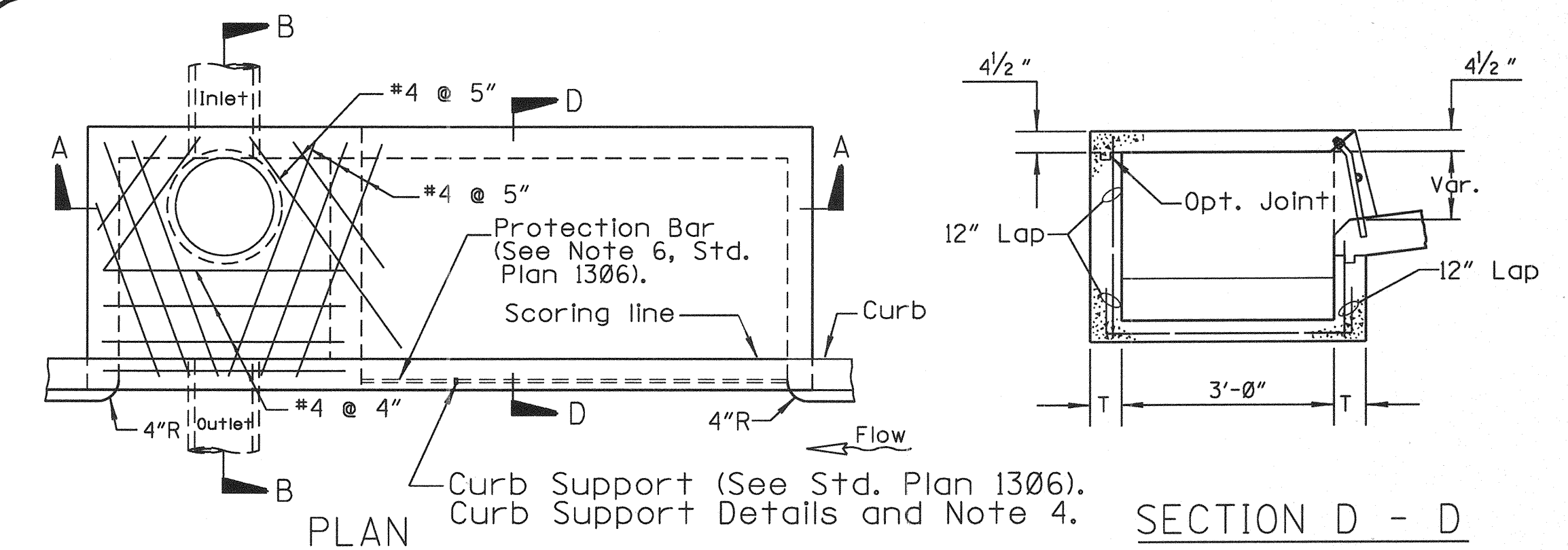
MODIFIED TYPE II INLET WITH REVERSE OUTLET

1. CONSTRUCTION TO CONFORM TO R.D.M.D STANDARD PLAN 1302, INLET TYPE II, EXCEPT AS NOTED.

NO AS BUILT CHANGES

AS BUILT

CORRECTION BY: MN
CONTRACT NO.: EC28121
DATE: 12/30/2009



NOTES:

1. Standard opening lengths, "L" are 7', 10', 14' and 21'. Other lengths may be used, but not to exceed 21'.
2. All reinforcing is #4 @ 12" O.C. for H < 8' and #5 @ 12" O.C. for H ≥ 8' unless otherwise specified.
3. Curb opening shall conform to curb alignment.
4. See Std. Plans 1306 and 1307 for details and notes.
5. See Std. Plan 1308 for Local Depression details.
6. All steel shall be 2" clear from interior concrete surfaces.
7. T=6" for H=5'-0" to < 8'-0". T=8" for H=8'-0" to 20'-0".
8. The following shall be stencilled using 2 inch high letters and black point on the face of the curb adjacent to the inlet (either side) and on the top of the inlet:
NO DUMPING
DRAINS TO OCEAN
9. Deck, including steel reinforcement, shall be constructed the same width as sidewalk (up to 6' wide).

ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPARTMENT

Approved

H. I. Nakasone, Chief Engineer

Adopted: Res. 77-92

Revised: Res. 78-791; 82-718; 86-1141; 91-1481; 96-546; 06-010

STD. PLAN

1302

SHT. 1 OF 1

INLET TYPE II

REVISIONS

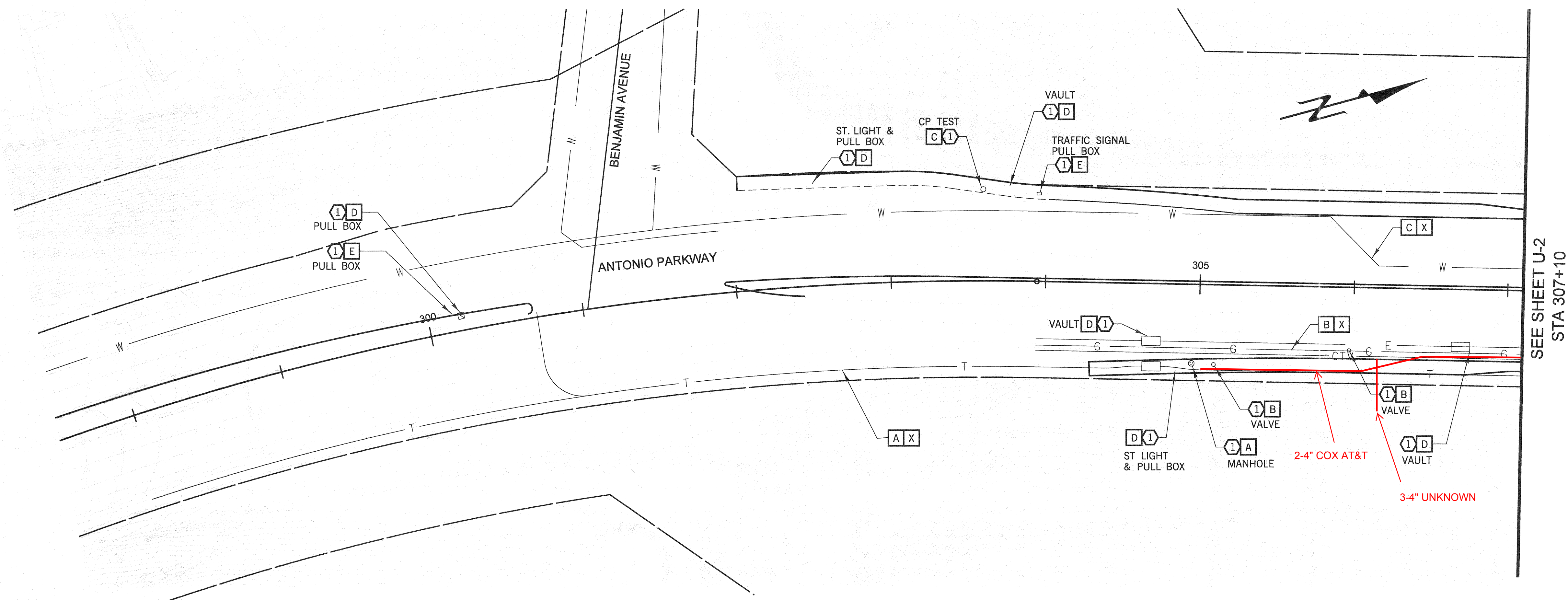
- * MINIMUM SLOPE = 6%
- ** D = 3'-0" FOR L LESS THAN OR EQUAL TO 10'-0"
D = 4'-0" FOR L GREATER THAN 10'-0"

PLANS PREPARED BY:
HNTB
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT		ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS		TYPE II INLET DETAILS D-7	
DESIGNED	R. NIERE	CHECKED	S. STROH	SHEET 17 OF 72	
DRAWN	N. BUNIA	CHECKED	S. STROH		
SCALE	DATE	DRAWING NO.			
AS SHOWN	11/18/05	NOV. 18, 2005			

Date Plotted: 08 November, 2006 10:15

File Name: J:\34092\CADD\Hwy\Drainage\drainage07-20061012-Rev2



- LEGEND / NOTES**
- [X] PROTECT IN PLACE
 - [A] RELOCATE BY OTHERS
 - [X] VALVE
 - [] MAN HOLE
 - [1] ADJUST TO GRADE

AS BUILT

CORRECTION BY: MN
 CONTRACT NO.: EC28121
 DATE: 12/30/2009

NOTES:

FOR TRAFFIC SIGNAL UTILITIES, SEE
 "TRAFFIC SIGNAL MODIFICATION" SHEETS

FOR STREET LIGHT UTILITIES, SEE
 "LIGHTING PLAN" SHEETS

UTILITIES

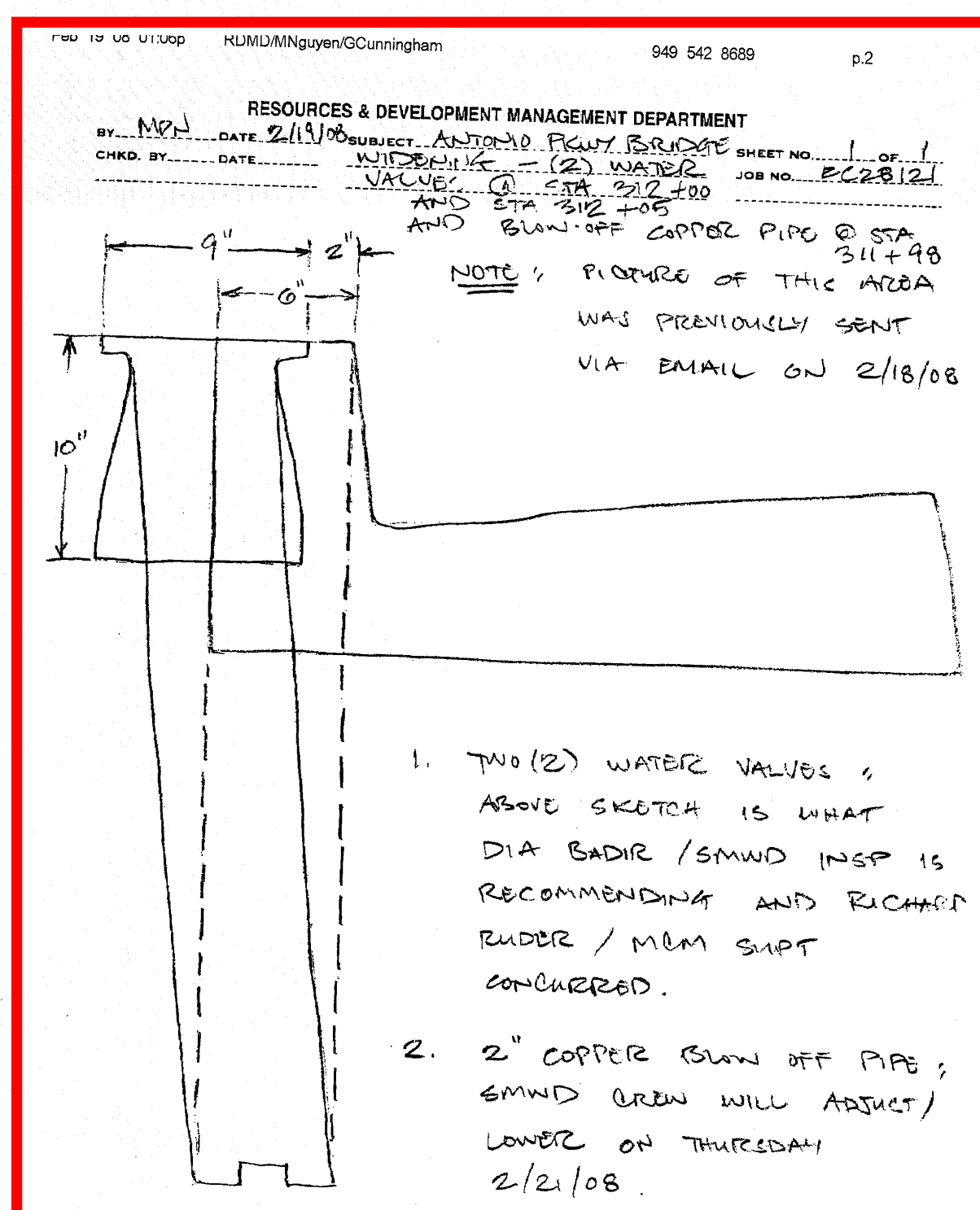
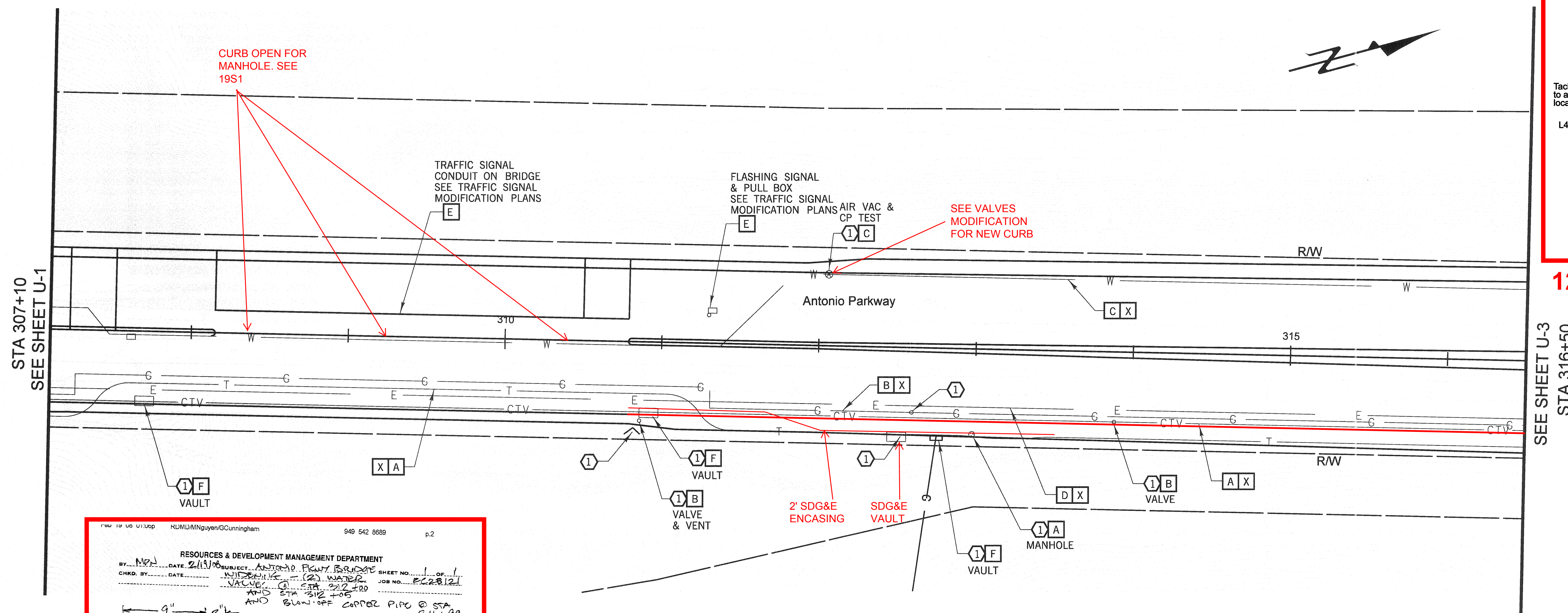
6-4" CPC, 2-4" MPC
 8" GAS
 30" WATER

OWNER

- A SBC TELEPHONE
- B THE GAS COMPANY
- C SANTA MARGARITA WATER DISTRICT
- D SAN DIEGO GAS & ELECTRIC
- E COUNTY OF ORANGE
- F COX COMMUNICATIONS

PLANS PREPARED BY:
HNTB
 HNTB Corporation
 200 E. SANDPOINT AVENUE, SUITE 200
 SANTA ANA, CALIFORNIA 92707
 TEL (714) 460-1600 FAX (714) 460-1610

PLAN 1" = 40'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
		ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS	
		STA 297+50 TO 307+10 UTILITY PLAN U-1	
DESIGNED: R. NIERE		SHEET 18	
DRAWN: N. BUNIA		CHECKED: S. STROH	
SCALE: AS SHOWN		DATE: 12/31/06	
DATE: 12/31/06		DRAWING NO. 07	



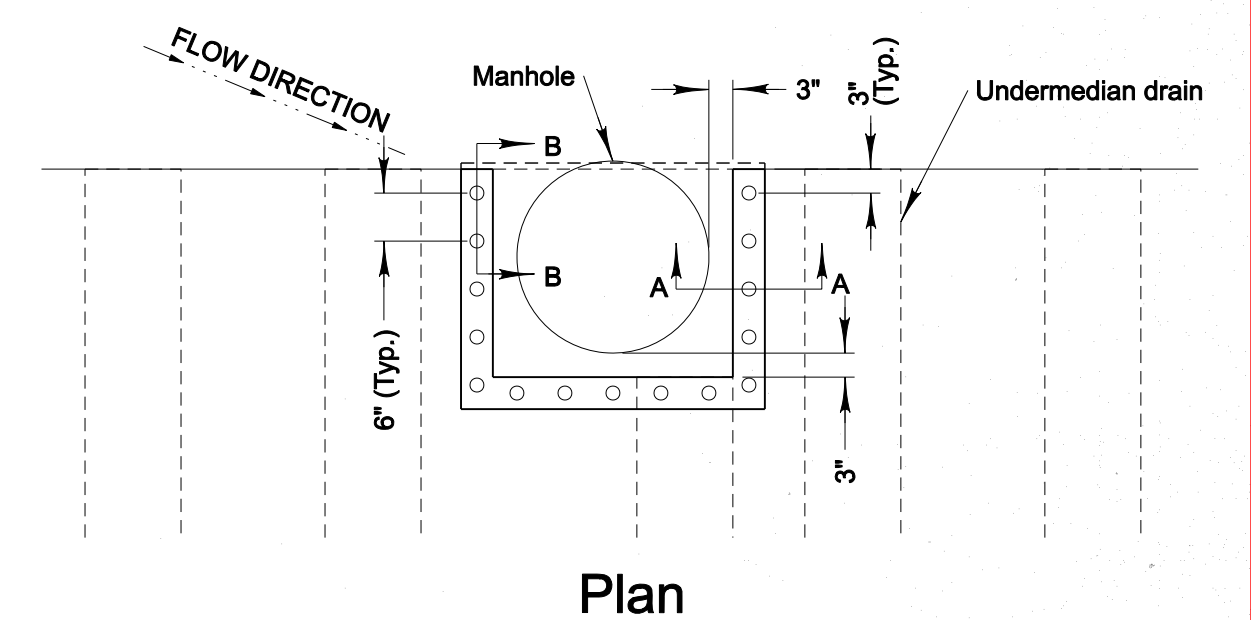
12S2 - WATER VALVES MODIFICATION FOR NEW CURB

UTILITIES

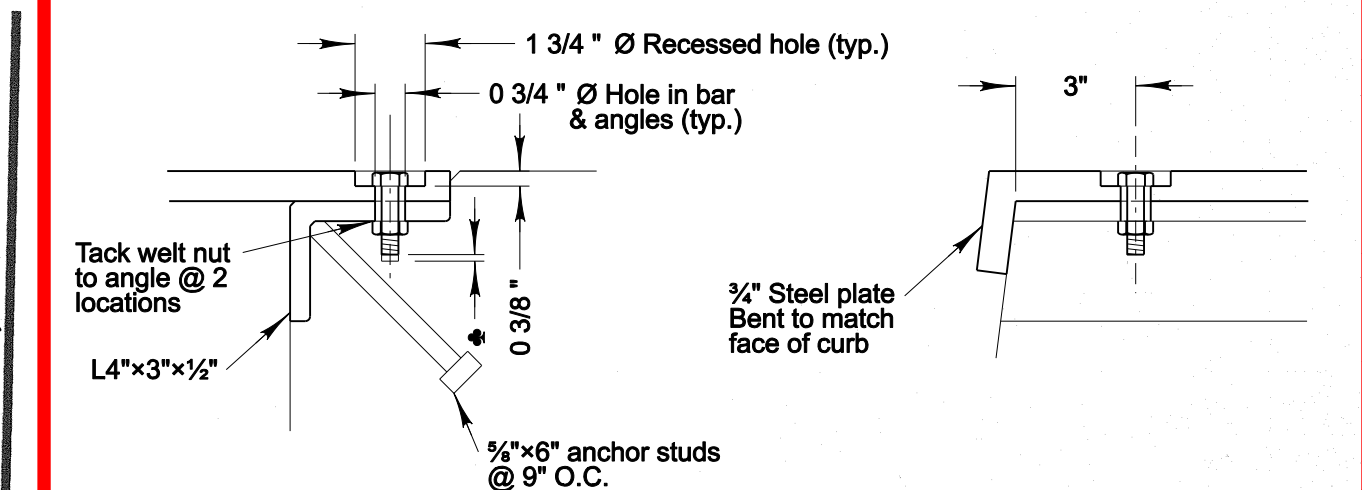
6-4" CPC, 2-4" MPC
8" GAS
30" WATER

OWNER

A SBC TELEPHONE
B THE GAS COMPANY
C SANTA MARGARITA WATER DISTRICT
D SAN DIEGO GAS & ELECTRIC
E COUNTY OF ORANGE
F COX COMMUNICATIONS



Plan



Section A-A

Section B-B

Use installation bolts extended 1/2" min and coat with bond breaker. After concrete has cured, remove installation bolts, install A325 bolts

12S1 - CURB OPEN FOR MANHOLE

LEGEND / NOTES

- [X] PROTECT IN PLACE
- [A] RELOCATE BY OTHERS
- [X] VALVE
- [] MAN HOLE
- [1] ADJUST TO GRADE

AS BUILT

CORRECTION BY: MN
CONTRACT NO.: EC28121
DATE: 12/30/2009

PLANS PREPARED BY: **HNTB**
HNTB Corporation
200 E. SANDPONT AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

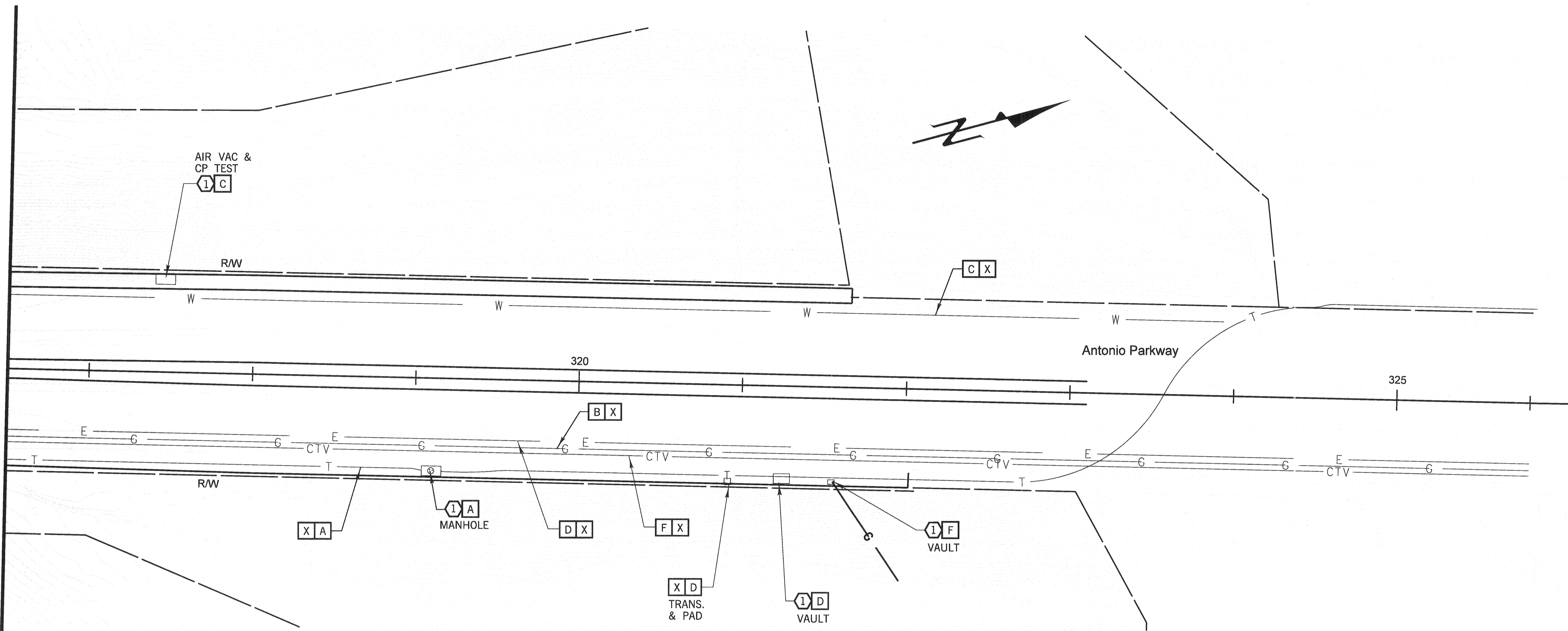
PLAN 1" = 40'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS		STA 307+10 TO 316+50 UTILITY PLAN U-2	
DESIGNED: R. NIERE	CHECKED: S. STROH	SHEET 19 OF 70	
REVISIONS		DATE	
PREPARED UNDER RESPONSIBLE CHARGE OF:		DATE	
STEVEN B. STROH NO. C 59687 EXP. 12-31-07 STATE OF CALIFORNIA		DATE	
SCALE	DATE	DRAWING NO.	
AS SHOWN	DATE	xxx	

Date Plotted: 20 October, 2008 05:40

File Name: J:\34092\CADD\Hwy\Sheets\utility02.dgn

Border sheet last modified 05-Nov-1999

STA 316+50
SEE SHEET U-2



UTILITIES

6-4" CPC, 2-4" MPC
8" GAS
30" WATER

OWNER

- A SBC TELEPHONE
- B THE GAS COMPANY
- C SANTA MARGARITA WATER DISTRICT
- D SAN DIEGO GAS & ELECTRIC
- E COUNTY OF ORANGE
- F COX COMMUNICATIONS

LEGEND / NOTES

- X PROTECT IN PLACE
- Δ RELOCATE BY OTHERS
- ⊗ VALVE
- MAN HOLE
- ① ADJUST TO GRADE

NO AS BUILT CHANGES

AS BUILT

CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009

PLANS PREPARED BY: **HNTB**
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

PLAN 1" = 40'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
		ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS	
		STA 316+50 TO 325+00 UTILITY PLAN U-3	
DESIGNED <u>R. NIERE</u>	CHECKED <u>S. STROH</u>	SHEET 20 OF 70	
DRAWN <u>N. BUNIA</u>	DATE <u>12/31/09</u>	DRAWING NO. <u>xxx</u>	
SCALE <u>AS SHOWN</u>	DATE <u>12/31/09</u>		

REVISIONS

MARK	DATE	DESCRIPTION
------	------	-------------

PREPARED UNDER RESPONSIBLE CHARGE OF:

STEVEN B. STROH
RCE C 59687 (EXP. 12-31-07)

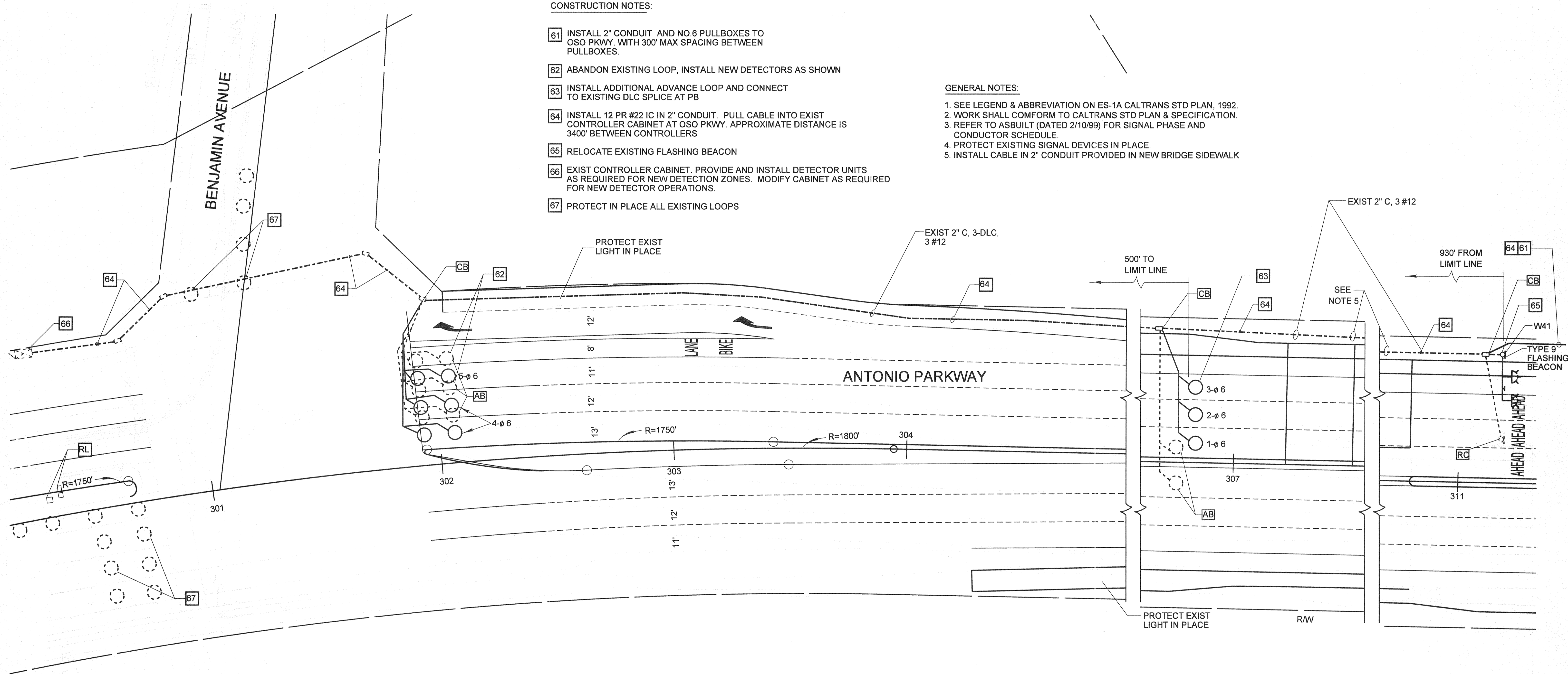
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

CONSTRUCTION NOTES:

- [61] INSTALL 2" CONDUIT AND NO.6 PULLBOXES TO OSO PKWY, WITH 300' MAX SPACING BETWEEN PULLBOXES.
- [62] ABANDON EXISTING LOOP, INSTALL NEW DETECTORS AS SHOWN
- [63] INSTALL ADDITIONAL ADVANCE LOOP AND CONNECT TO EXISTING DLC SPLICE AT PB
- [64] INSTALL 12 PR #22 IC IN 2" CONDUIT. PULL CABLE INTO EXIST CONTROLLER CABINET AT OSO PKWY. APPROXIMATE DISTANCE IS 3400' BETWEEN CONTROLLERS
- [65] RELOCATE EXISTING FLASHING BEACON
- [66] EXIST CONTROLLER CABINET. PROVIDE AND INSTALL DETECTOR UNITS AS REQUIRED FOR NEW DETECTION ZONES. MODIFY CABINET AS REQUIRED FOR NEW DETECTOR OPERATIONS.
- [67] PROTECT IN PLACE ALL EXISTING LOOPS

GENERAL NOTES:

1. SEE LEGEND & ABBREVIATION ON ES-1A CALTRANS STD PLAN, 1992.
2. WORK SHALL COMFORM TO CALTRANS STD PLAN & SPECIFICATION.
3. REFER TO ASBUILT (DATED 2/10/99) FOR SIGNAL PHASE AND CONDUCTOR SCHEDULE.
4. PROTECT EXISTING SIGNAL DEVICES IN PLACE.
5. INSTALL CABLE IN 2" CONDUIT PROVIDED IN NEW BRIDGE SIDEWALK



SEE SHEET 21S FOR STREET LIGHTING & TRAFFIC SIGNAL, FLASHING BEACON SYSTEM AND INTERCONNECT SYSTEM INSTALLATIONS.

AS BUILT

CORRECTION BY: MN
 CONTRACT NO.: ER28121
 DATE: 12/30/2009

PLANS PREPARED BY:
HNTB
 HNTB Corporation
 200 E. SANDPOINTE AVENUE, SUITE 200
 SANTA ANA, CALIFORNIA 92707
 TEL (714) 460-1600 FAX (714) 460-1610

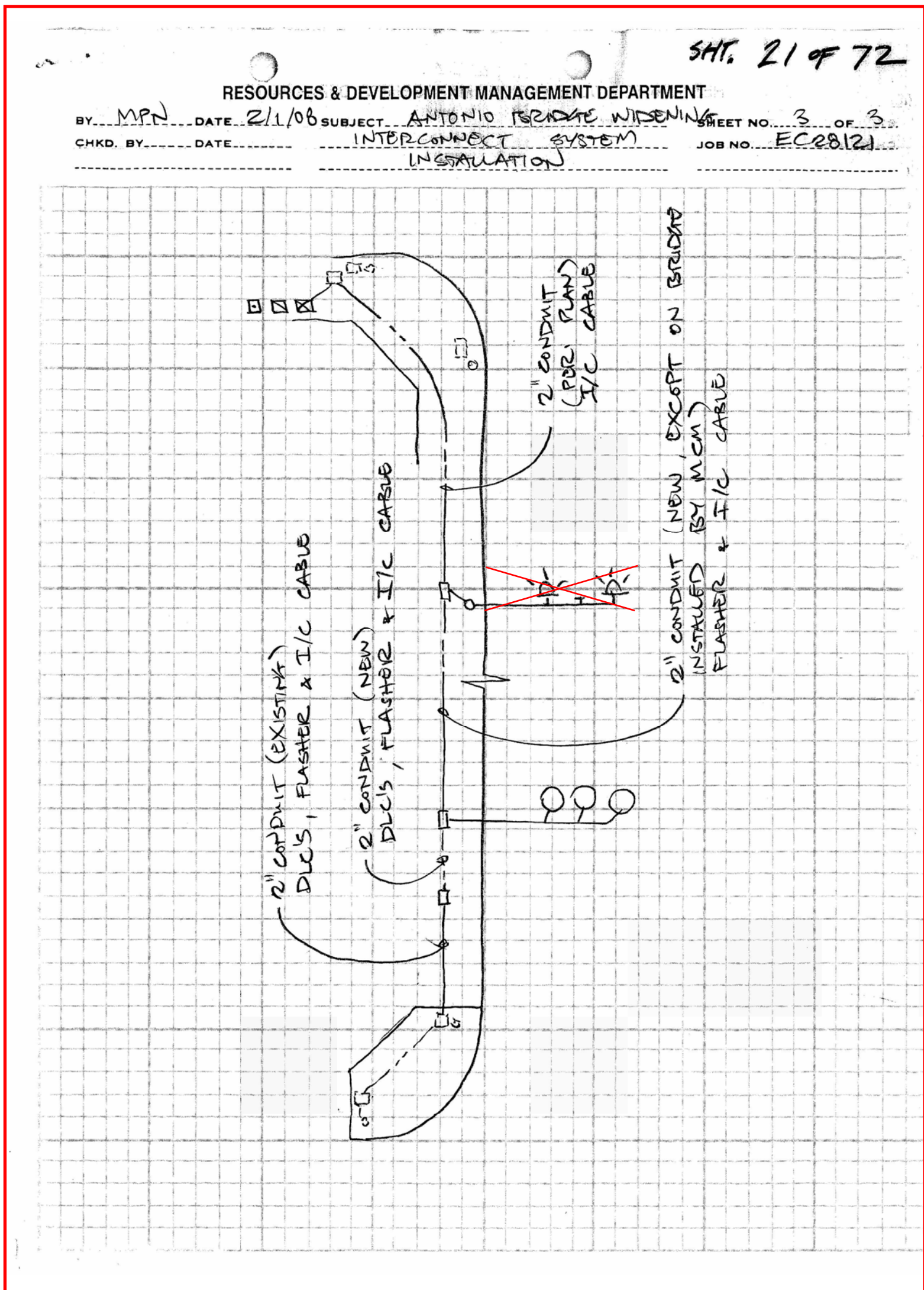
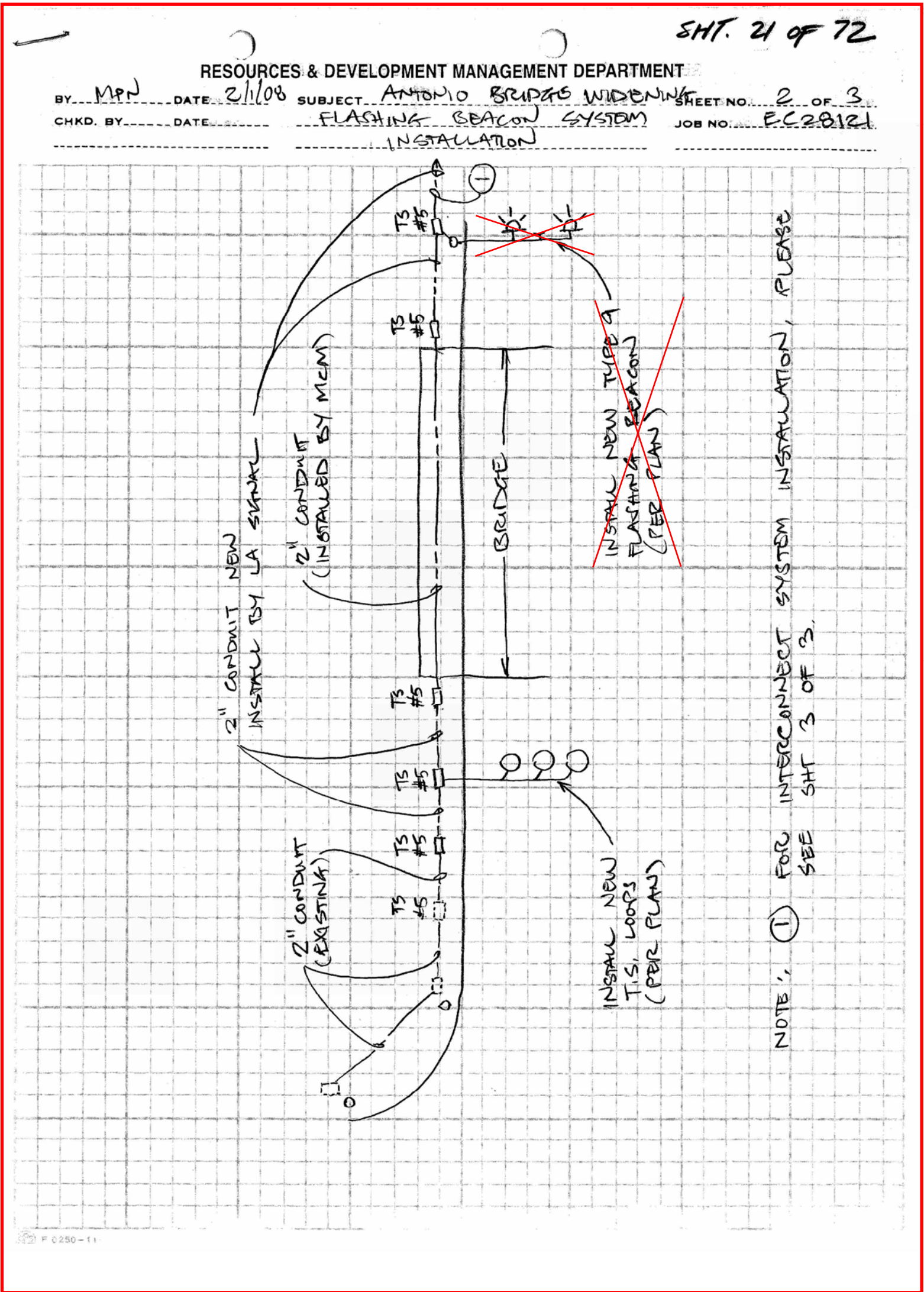
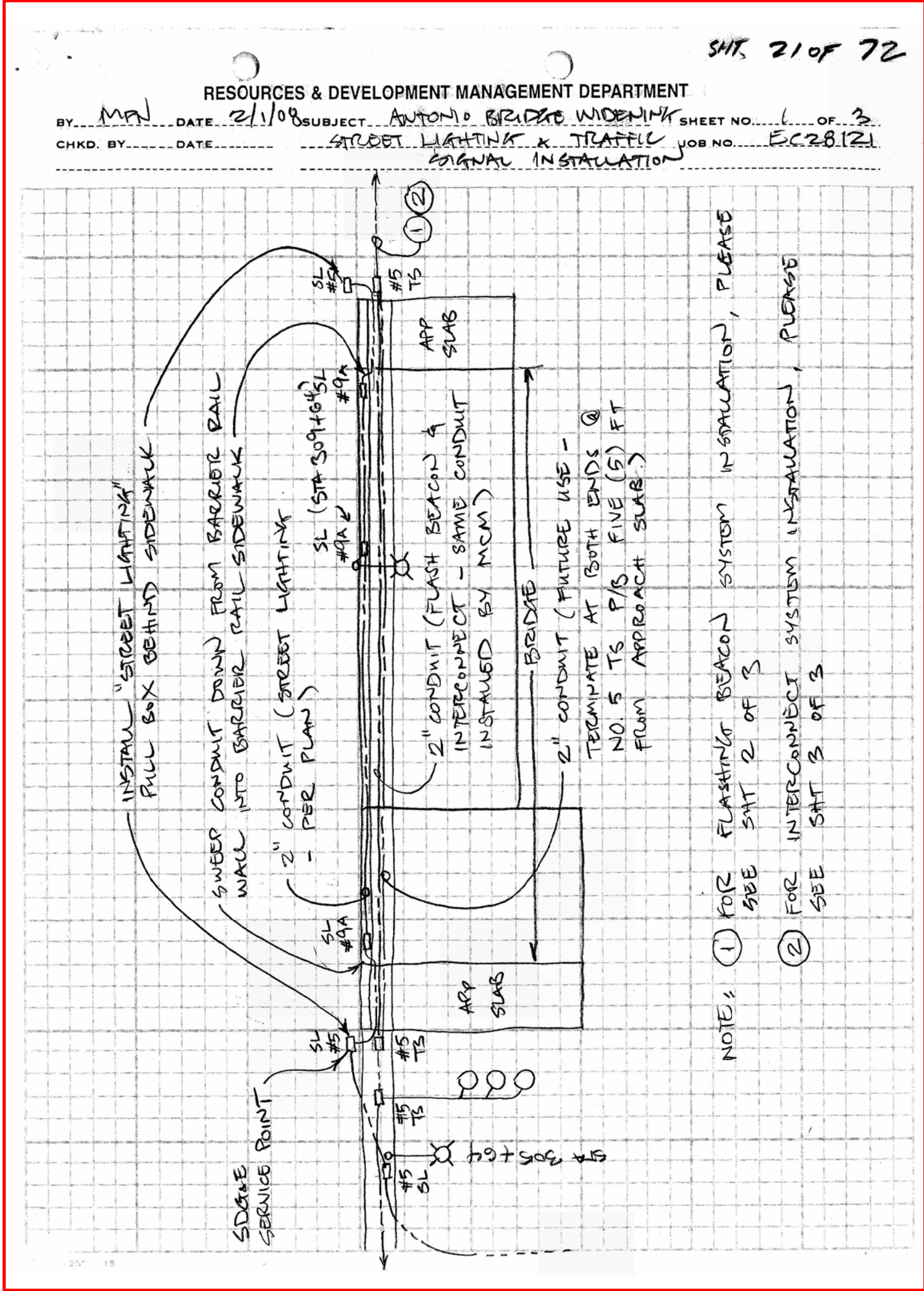
PLAN 1" = 20'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
		ANTONIO PARKWAY WILDLIFE IMPROVEMENTS PLANS	
		TRAFFIC SIGNAL MODIFICATION PLAN	
DESIGNED	R. NIERE	SHEET 21 OF 72	
DRAWN	N. RUMIA	CHECKED	S. STROH
SCALE	DATE	DRAWING NO.	
AS SHOWN	11/18/05	xxx	

MARK	DATE	DESCRIPTION
REVISIONS		
PREPARED UNDER RESPONSIBLE CHARGE OF:		
STEVEN B. STROH RCE C 59687 (EXP. 12-31-07)		

Date Plotted: 27 October, 2008 01:44

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Border sheet last modified 09-Nov-1999



AS BUILT

CORRECTION BY: MN

CONTRACT NO.: ER28121

DATE: 12/30/2009

PLAN 1" =		ORANGE COUNTY PUBLIC FACILITIES AND RESOURCES DEPARTMENT	
		ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)	
		TRAFFIC SIGNAL MODIFICATION PLAN	
DESIGNED	CHECKED	SHEET	
DRAWN	CHECKED	21S	
SCALE AS SHOWN	DATE	DRAWING NO.	OF 72

PREPARED UNDER RESPONSIBLE CHARGE OF:



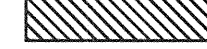
REGISTERED PROFESSIONAL ENGINEER
NO. _____
EXP. _____
CIVIL
STATE OF CALIFORNIA

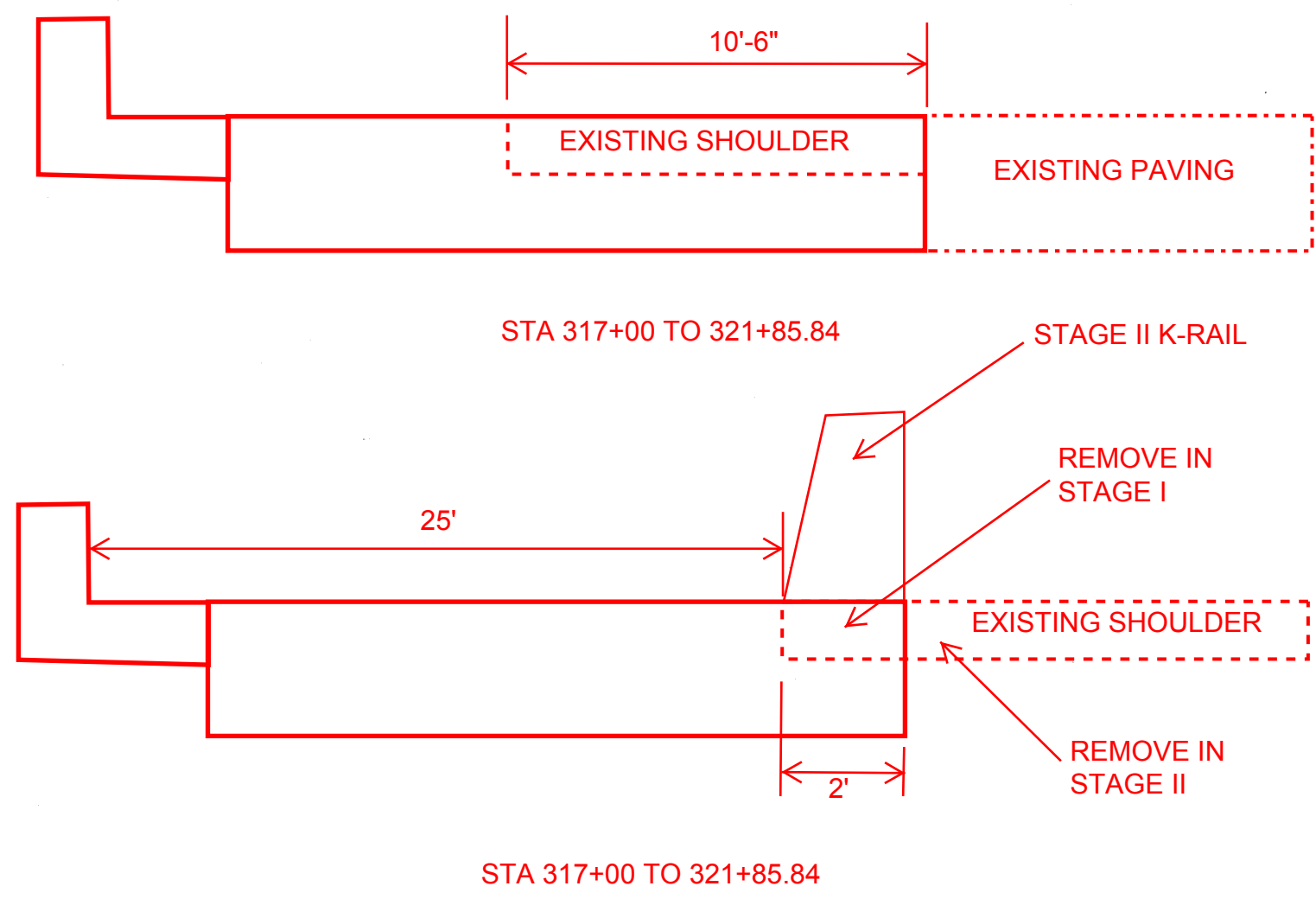
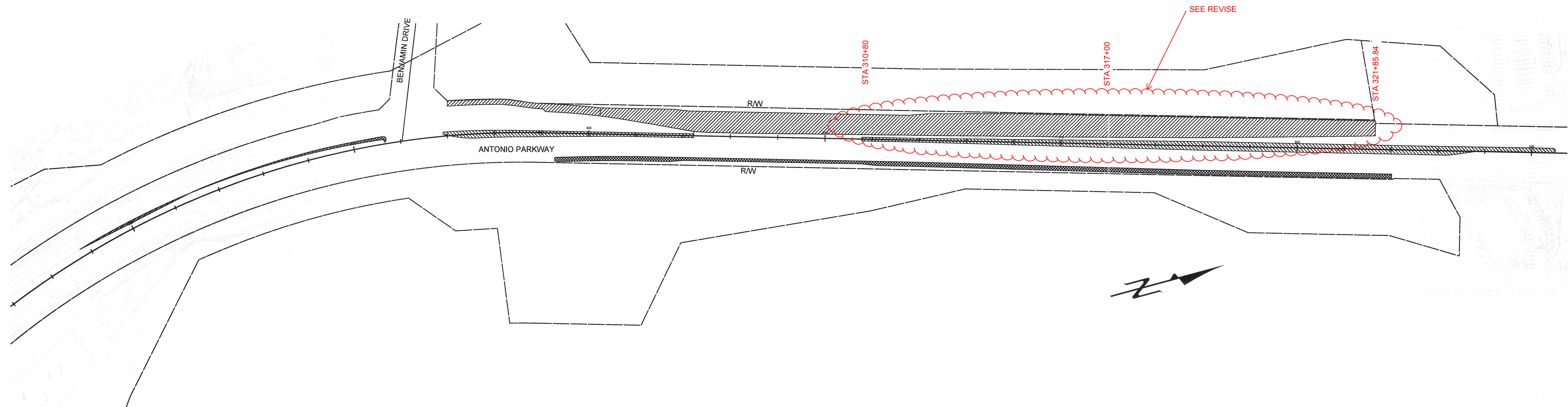
DATE

Date Plotted:

File Name:

CONSTRUCTION STAGES

-  PHASE 1 - CONSTRUCT SOUTHBOUND BRIDGE AND ROADWAY WIDENING
-  PHASE 2 - CONSTRUCT MEDIAN NORTH OF BENJAMIN DRIVE AND NORTHBOUND SIDEWALK AND ROADWAY
-  PHASE 3 - CONSTRUCT MEDIAN SOUTH OF BENJAMIN DRIVE, NORTHBOUND PAVEMENT, CURB, GUTTER, SIDEWALK AND CONCRETE BARRIER.



AS BUILT

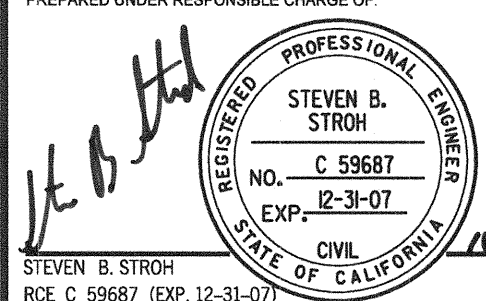
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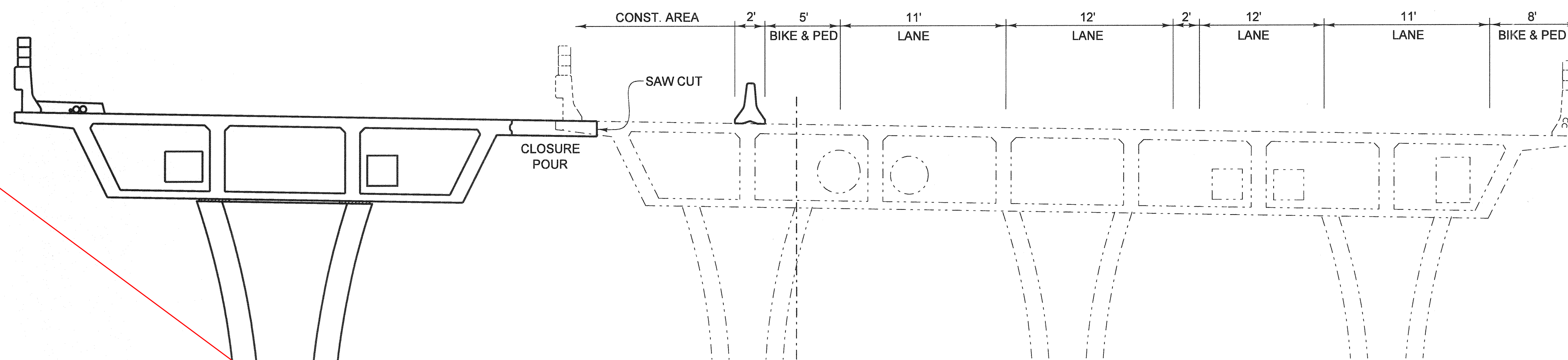
CONTRACT NO.: ER28121

DATE: 12/30/2009

PLANS PREPARED BY: **HNTB**

HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT		ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS		STAGE CONSTRUCTION INDEX	
MARK	DATE	REVISIONS			
PREPARED UNDER RESPONSIBLE CHARGE OF:					
					
DESIGNED	R. NIERE	CHECKED	S. STROH	SHEET	
DRAWN	N. BUNIA	DATE		22	
SCALE	AS SHOWN	DATE	11/19/05	DRAWING NO.	xxx
				OF 72	

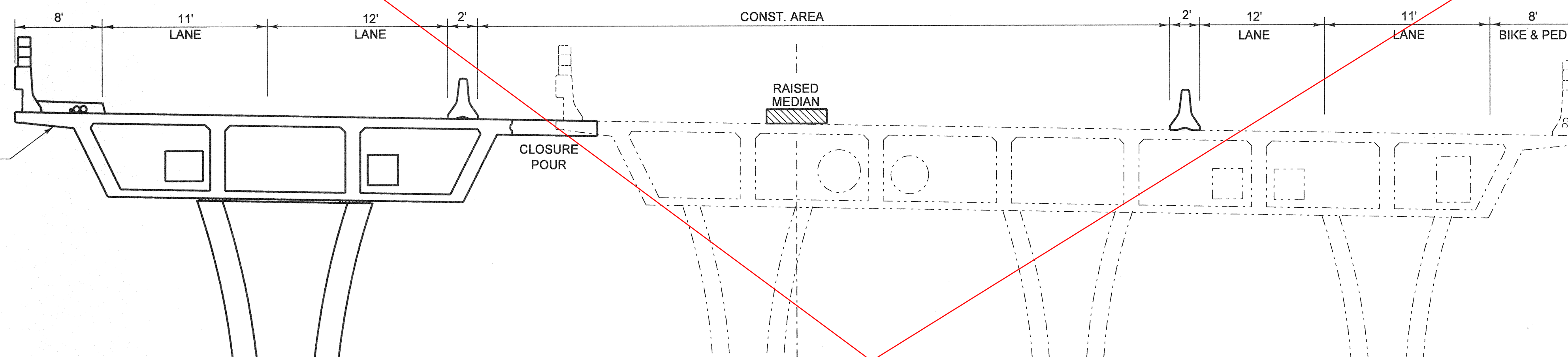


TYPICAL SECTION - PHASE I

1" = 5'

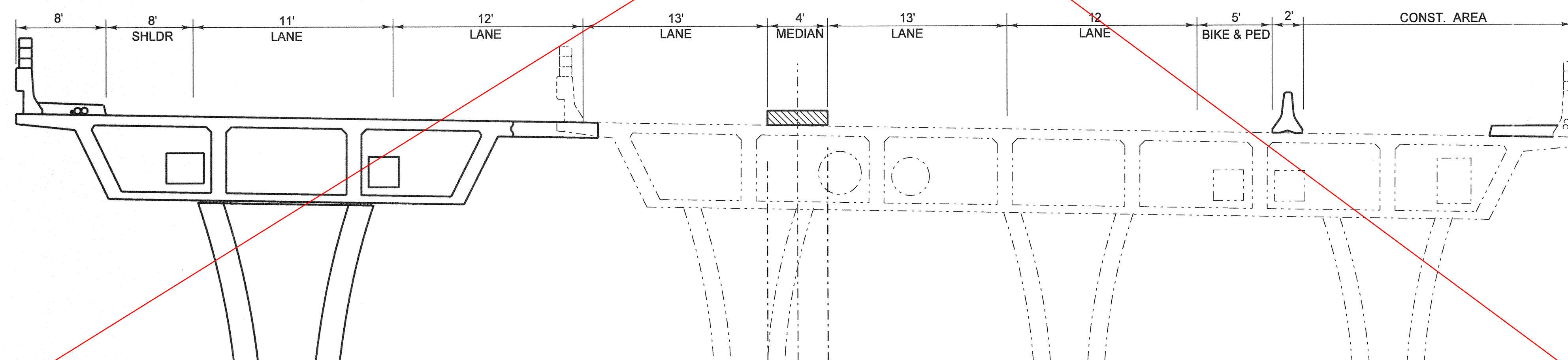
NOTE:

FOR PLACEMENT OF CLOSURE POUR, SEE SHEET 68 "TYPICAL SECTION".



TYPICAL SECTION - PHASE II

1" = 5'



TYPICAL SECTION - PHASE III

1" = 5'

THIS SHEET WAS REPLACED BY SHEET 23R OF 72.

AS BUILT

CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009

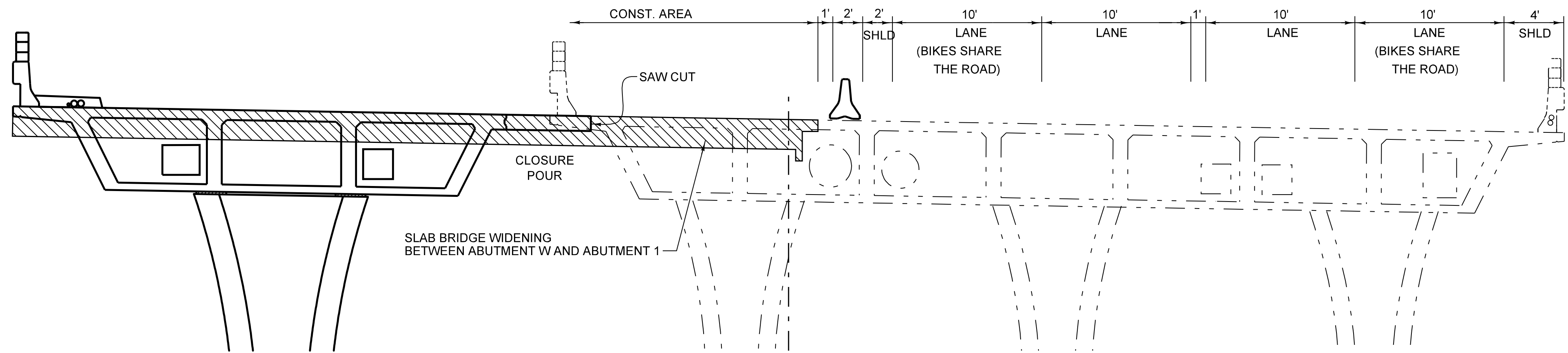
PLANS PREPARED BY:
HNTB
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

PLAN 1" = 5'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
		ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS	
		STAGE CONSTRUCTION TRAFFIC CONTROL PLAN SECTIONS SC-1	
DESIGNED	R. NIERE	CHECKED	S. STROH
DRAWN	N. BUNIA	CHECKED	S. STROH
SCALE	DATE	DRAWING NO.	SHEET
AS SHOWN	11/18/05	NOV. 18, 2005	23
			OF 72

Date Plotted: 20 October, 2006 05:38

File Name: J:\34092\CADD\Hwy\Sheets\SC1a.dgn

Border sheet last modified 02-Nov-1999

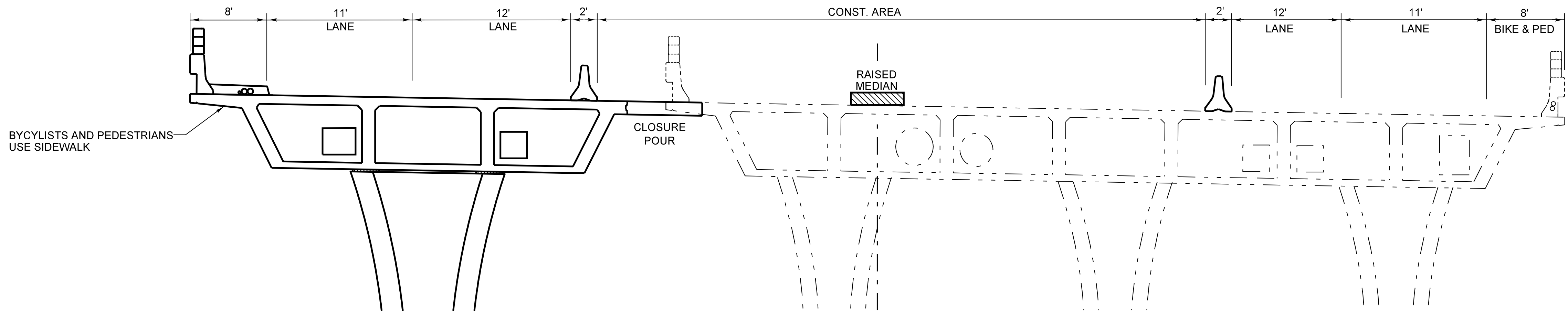


TYPICAL SECTION - PHASE I

1"= 5'

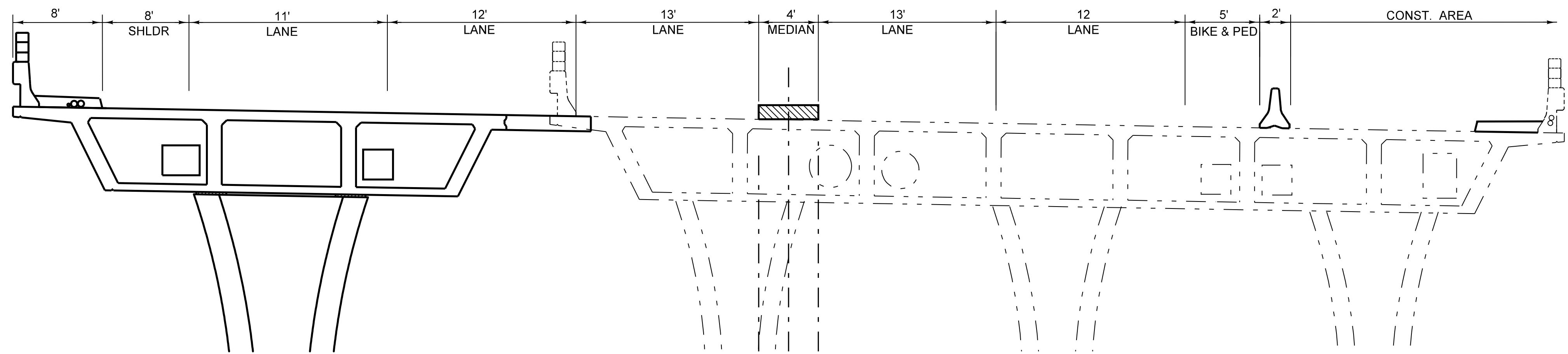
NOTE:

FOR PLACEMENT OF CLOSURE POUR, SEE SHEET 58 "TYPICAL SECTION".



TYPICAL SECTION - PHASE II

1"= 5'



TYPICAL SECTION - PHASE III

1"= 5'

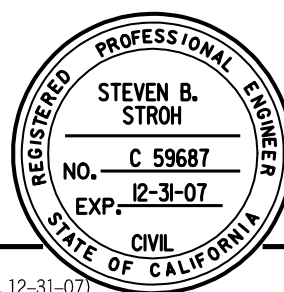
THIS SHEET REPLACES SHEET 23 OF 72 OF THE CONTRACT PLANS

AS BUILT

CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009

PLANS PREPARED BY: HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

HNTB

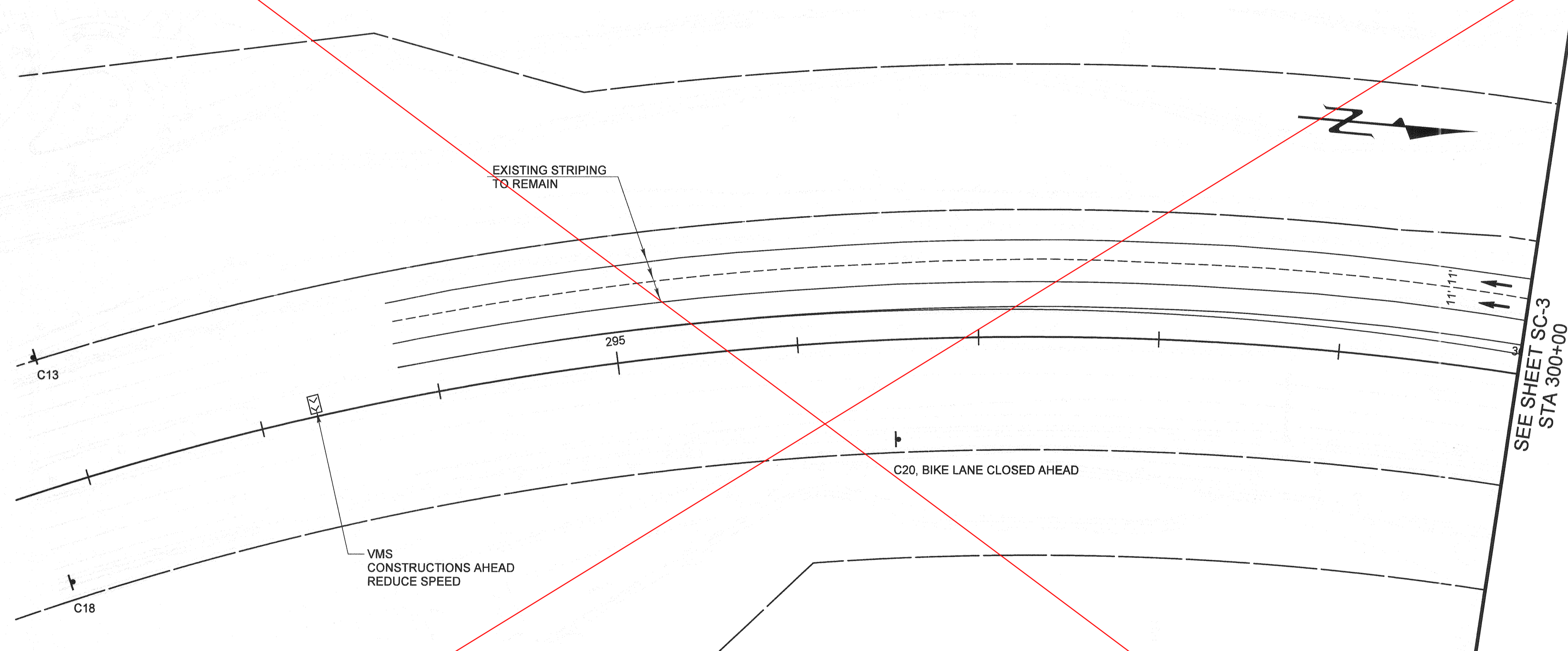


Date Plotted: 16 May, 2007 09:05

File Name: \\irvw00\jobs\34092\CADD\Hwy\Sheets\SC1a.dgn

PLAN 1" = 5'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS STAGE CONSTRUCTION TRAFFIC CONTROL PLAN SECTIONS SC-1		SHEET 23R OF 72						
DESIGNED: <u>R. NIERRE</u> DRAWN: <u>N. BUNIA</u> CHECKED: <u>S. STROTH</u>		SCALE: <u>AS SHOWN</u> DATE: <u>11/18/05</u> DRAWING NO.: <u>NOV 18, 2005</u>								
PREPARED UNDER RESPONSIBLE CHARGE OF: 		REVISIONS <table border="1"> <thead> <tr> <th>MARK</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>			MARK	DATE	DESCRIPTION			
MARK	DATE	DESCRIPTION								

Border sheet last modified 09-Nov-1999



- LEGEND**
- ← VEHICLE TRAVEL
 - ▨ STAGE 1 CONSTRUCTION
 - DELINEATORS AT 100' O.C.
 - ◆ K RAIL
 - ⊥ SIGN
 - ⌢ APPRON BOARD OR VMS AS INDICATED

THIS SHEET WAS REPLACED BY SHEET 24R
OF 72.

AS BUILT

CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009

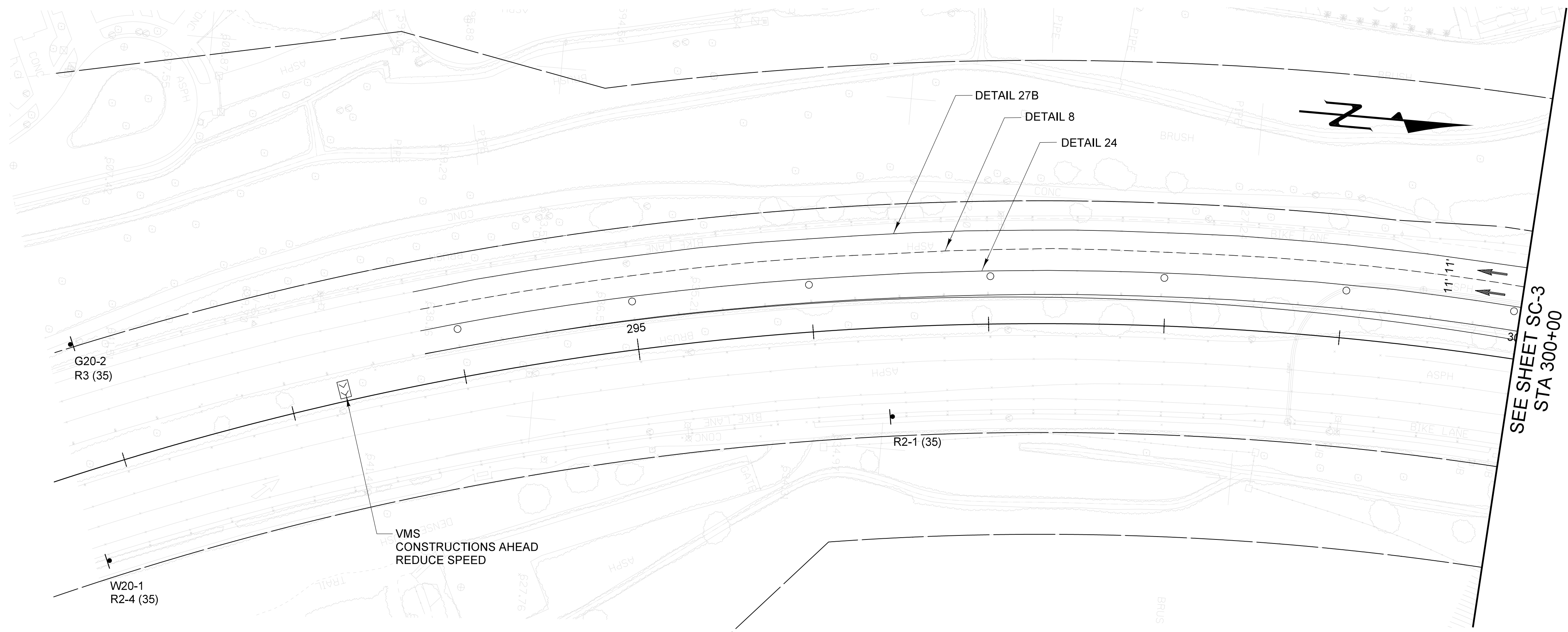
PLANS PREPARED BY: **HNTB**
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

PLAN 1" = 40'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
		ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS	
		STAGE CONSTRUCTION TRAFFIC CONTROL PLAN PHASE I SC-2	
MARK DATE DESCRIPTION		DESIGNED <u>R. NIERE</u>	SHEET
REVISIONS		DRAWN <u>N. BUNIA</u>	24
PREPARED UNDER RESPONSIBLE CHARGE OF:		CHECKED <u>S. STROH</u>	OF 72
PROFESSIONAL ENGINEER STEVEN B. STROH NO. <u>C 59687</u> EXP. <u>12-31-07</u> CIVIL STATE OF CALIFORNIA		SCALE <u>AS SHOWN</u>	DATE <u>11/18/05</u>
DATE <u>10/21/06</u>		DRAWING NO. <u>xxx</u>	

Date Plotted: 20 October, 2006 05:37

File Name: J:\34092\CADD\Hwy\Sheets\SC1.dgn

Border sheet last modified 09-Nov-1999



- LEGEND**
- VEHICLE TRAVEL
 - STAGE 1 CONSTRUCTION
 - DELINEATORS AT 100' O.C.
 - K RAIL
 - SIGN
 - APPRON BOARD OR VMS AS INDICATED

THIS SHEET REPLACES SHEET 24 OF 72 OF THE CONTRACT PLANS

AS BUILT

CORRECTION BY: MN

CONTRACT NO.: ER28121

DATE: 12/30/2009

PLANS PREPARED BY:
HNTB
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

PLAN
1" = 40'

MARK DATE DESCRIPTION

REVISIONS

PREPARED UNDER RESPONSIBLE CHARGE OF:

REGISTERED PROFESSIONAL ENGINEER
STEVEN B. STROH
NO. C 59687
EXP. 12-31-07
CIVIL
STATE OF CALIFORNIA
DATE

ORANGE COUNTY
RESOURCES & DEVELOPMENT MANAGEMENT DEPT

ANTONIO PARKWAY
WILDLIFE
IMPROVEMENT PLANS

**STAGE CONSTRUCTION
TRAFFIC CONTROL PLAN
PHASE I
SC-2**

DESIGNED R. NIERE

DRAWN N. BUNIA

CHECKED S. STROH

SCALE

DATE

DRAWING NO.

AS SHOWN

11/18/05

xxx

SHEET

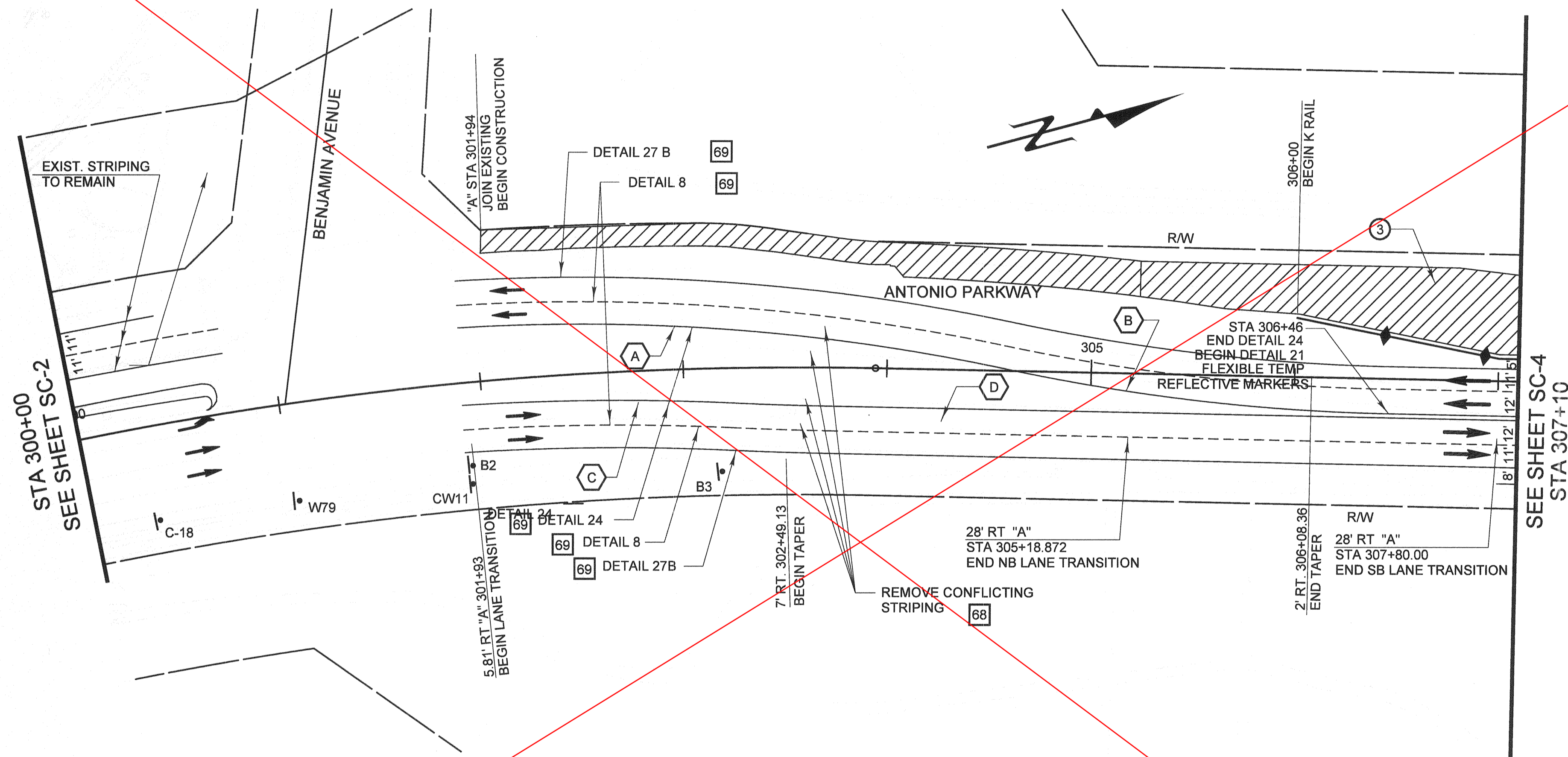
24R

OF 72

Date Plotted: 29 May, 2007 10:36

File Name: \\irvw00\jobs\34092\CADD\Hwy\Sheets\SC1.dgn

Border sheet last modified 06-Nov-1999



PHASE 1 - ANTONIO PKWY

- ① CONSTRUCT SIDEWALK AND ROADWAY
301+94 TO 307+51
- ② CONSTRUCT BRIDGE
- ③ CONSTRUCT ROADWAY 310+50 TO 311+65

LEGEND

- ← VEHICLE TRAVEL
- ▨ PHASE 1 CONSTRUCTION
- DELINEATORS AT 100' O.C.
- ◆ K RAIL

CURVE DATA

- A $\Delta = 16^{\circ}32'26''$
R = 1000.00'
L = 288.68'
T = 145.35'
- B $\Delta = 12^{\circ}0'30''$
R = 1000.00'
L = 209.58'
T = 105.17'
- C $\Delta = 09^{\circ}23'23''$
R = 1222.00'
L = 200.264'
T = 100.357'
- D $\Delta = 04^{\circ}33'29''$
R = 1600.00'
L = 127.284'
T = 63.676'

CONSTRUCTION NOTES

- 68 SANDBLAST CONFLICTING STRIPING
- 69 PAINT

THIS SHEET WAS REPLACED BY SHEET 25R OF 72

AS BUILT

CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009

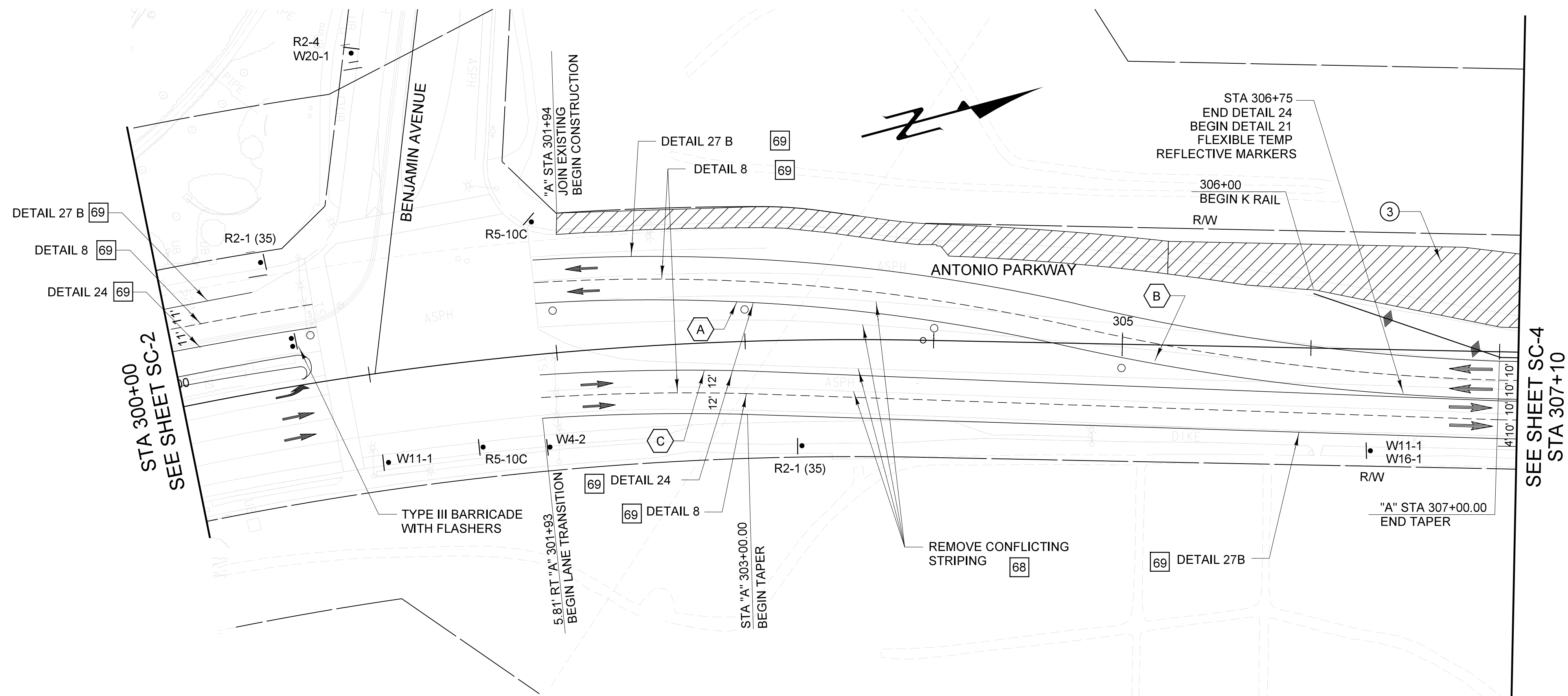
PLANS PREPARED BY:
HNTB
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

PLAN 1" = 40'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
		ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS	
		STAGE CONSTRUCTION TRAFFIC CONTROL PLAN PHASE I SC-3	
MARK	DATE	DESCRIPTION	
REVISIONS			
PREPARED UNDER RESPONSIBLE CHARGE OF			
STEVEN B. STROH NO. C 59687 EXP. 12-31-07 CIVIL DATE OF CALIFORNIA			
DESIGNED	R. NERE	CHECKED	S. STROH
SCALE	DATE	DRAWING NO.	
AS SHOWN	11/18/05	xxx	
SHEET		25 OF 72	

Date Plotted: 27 October, 2006 01:46

File Name: J:\34092\CADD\Hwy\Sheets\SC2.dgn

Border sheet last modified 09-Nov-1999



PHASE 1 – ANTONIO PKWY

- ① CONSTRUCT SIDEWALK AND ROADWAY
301+94 TO 307+51
- ② CONSTRUCT BRIDGE
- ③ CONSTRUCT ROADWAY 310+50 TO 311+65

LEGEND

- ← VEHICLE TRAVEL
- ▨ PHASE 1 CONSTRUCTION
- DELINEATORS AT 100' O.C.
- ◆ K RAIL

CURVE DATA

- A $\Delta = 15^\circ 58' 46''$
R= 1000.00'
L= 278.89'
T= 140.36'
- B $\Delta = 11^\circ 26' 50''$
R= 1200.00'
L= 239.75'
T= 120.28'
- C $\Delta = 05^\circ 07' 31''$
R= 1221.93'
L= 109.30'
T= 54.69'

CONSTRUCTION NOTES

- 68 SANDBLAST CONFLICTING STRIPING
- 69 PAINT

THIS SHEET REPLACES SHEET 24 OF 72 OF THE CONTRACT PLANS

AS BUILT

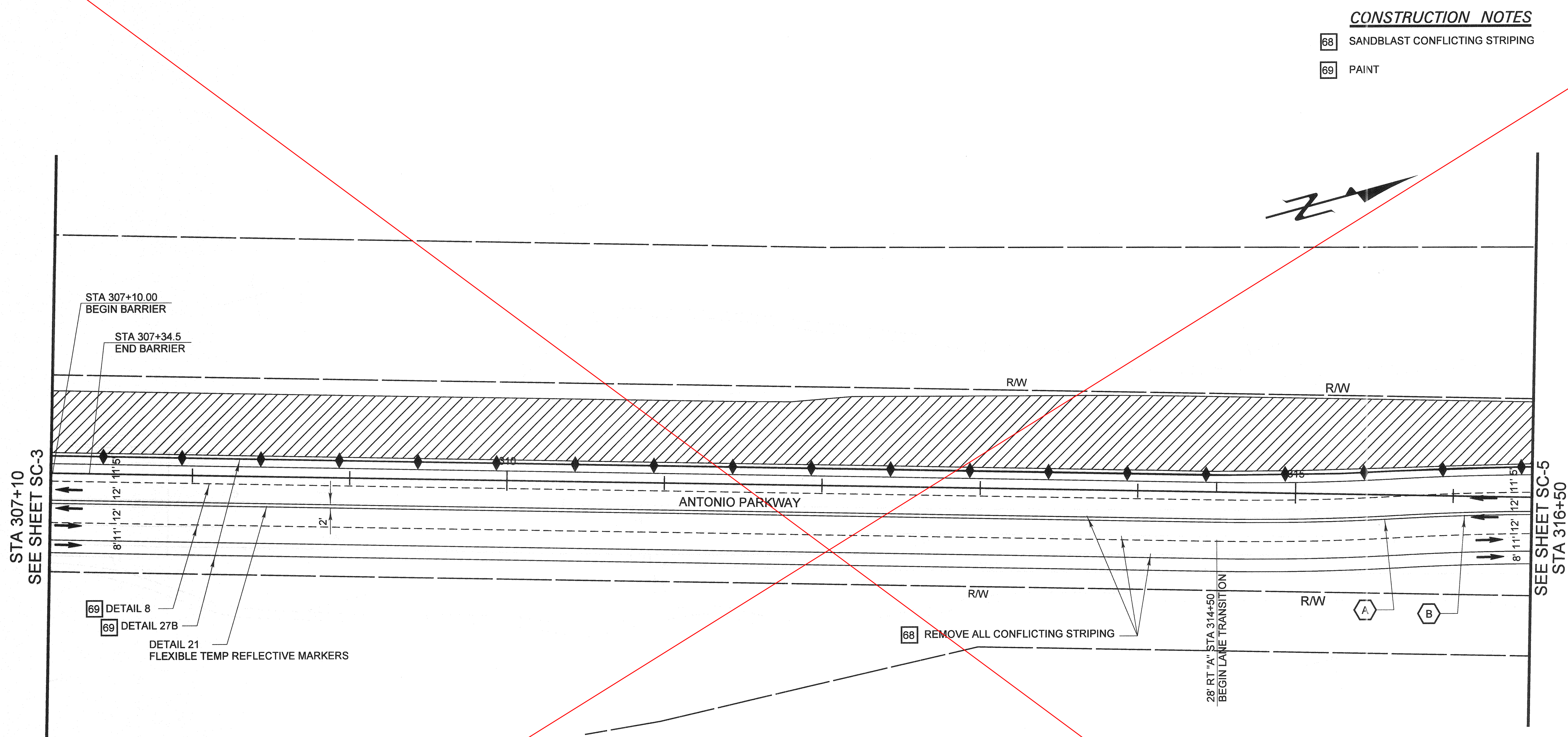
CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009

PLANS PREPARED BY:
HNTB
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

PLAN 1" = 40'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
		ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS	
		STAGE CONSTRUCTION TRAFFIC CONTROL PLAN PHASE I SC-3	
DESIGNED <u> R. NIERE </u>		SHEET	
DRAWN <u> N. BUNIA </u>		25R	
CHECKED <u> S. STROH </u>		OF 72	
SCALE <u> AS SHOWN </u>		DATE <u> 11/18/05 </u>	
DRAWING NO. <u> xxx </u>			

PREPARED UNDER RESPONSIBLE CHARGE OF:

STEVEN B. STROH
NO. C 59687
EXP. 12-31-07
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
CIVIL
STEVEN B. STROH
RCE C 59687 (EXP. 12-31-07)



- CONSTRUCTION NOTES**
- 68 SANDBLAST CONFLICTING STRIPING
 - 69 PAINT

- PHASE 1 - ANTONIO PKWY**
- 1 CONSTRUCT SIDEWALK AND ROADWAY 301+94 TO 307+51
 - 2 CONSTRUCT BRIDGE
 - 3 CONSTRUCT ROADWAY 310+50 TO 311+65

- LEGEND**
- ← VEHICLE TRAVEL
 - ▨ PHASE 1 CONSTRUCTION
 - DELINEATORS AT 100' O.C.
 - ◆ K RAIL

- CURVE DATA**
- A $\Delta = 04^{\circ}09'24''$
R = 1600.00'
L = 116.07'
T = 58.06'
 - B $\Delta = 12^{\circ}24'52''$
R = 1600.00'
L = 116.06'
T = 58.06'

THIS SHEET WAS REPLACED BY SHEET 26R OF 72.

AS BUILT

CORRECTION BY: MN

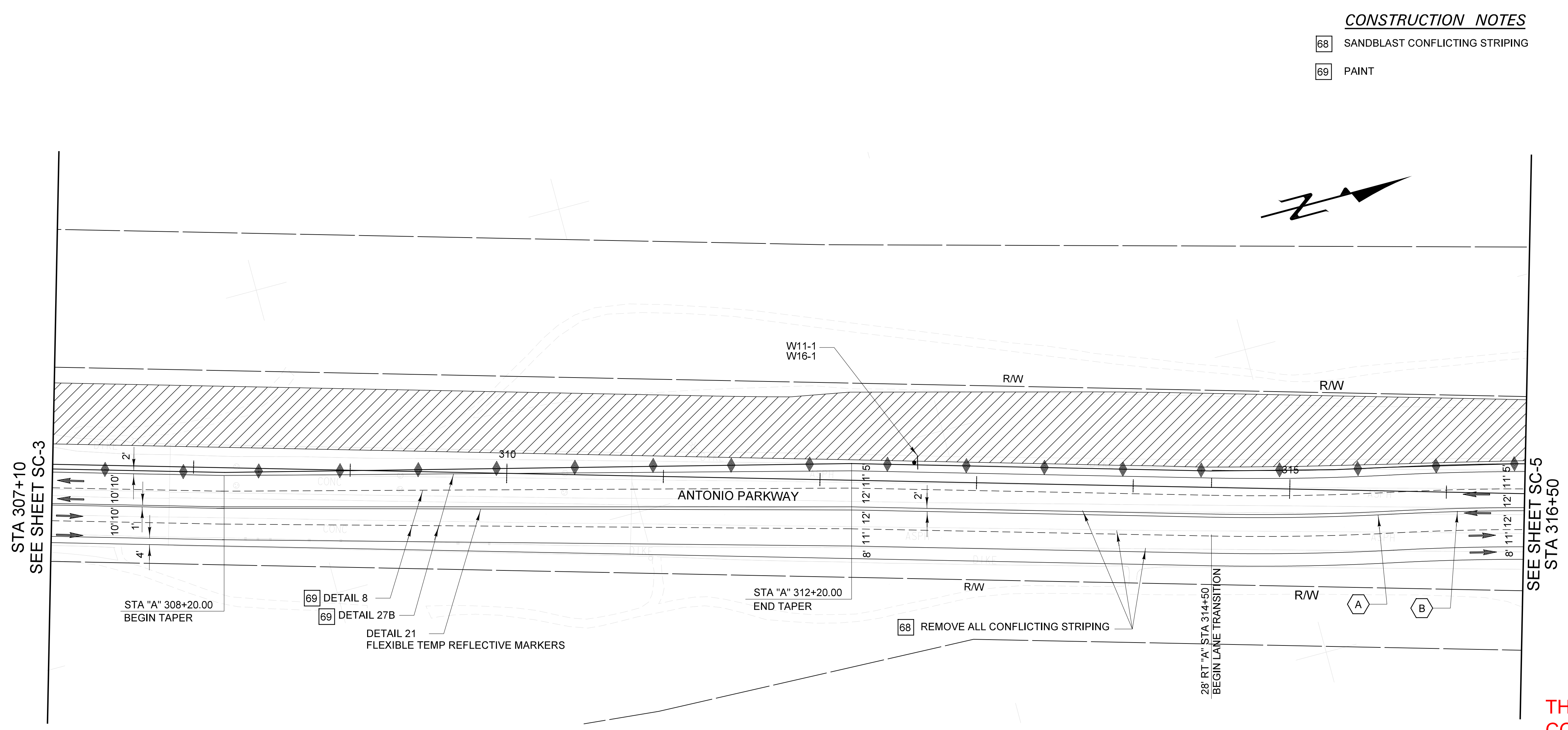
CONTRACT NO.: ER28121

DATE: 12/30/2009

PLANS PREPARED BY: **HNTB** Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

PLAN 1" = 40'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
		ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS	
		STAGE CONSTRUCTION TRAFFIC CONTROL PLAN PHASE I SC-4	
DESIGNED	R. NIERE	CHECKED	S. STROH
DRAWN	N. BUNIA	CHECKED	S. STROH
SCALE	DATE	DRAWING NO.	
AS SHOWN	11/18/05	xxx	
SHEET 26 OF 72			

PREPARED UNDER RESPONSIBLE CHARGE OF:
STEVEN B. STROH
RCE C 59687 (EXP. 12-31-07)
10/21/06



CONSTRUCTION NOTES

- 68 SANDBLAST CONFLICTING STRIPING
- 69 PAINT

PHASE 1 - ANTONIO PKWY

- 1 CONSTRUCT SIDEWALK AND ROADWAY 301+94 TO 307+51
- 2 CONSTRUCT BRIDGE
- 3 CONSTRUCT ROADWAY 310+50 TO 311+65

LEGEND

- VEHICLE TRAVEL
- PHASE 1 CONSTRUCTION
- DELINEATORS AT 100' O.C.
- K RAIL

CURVE DATA

- A $\Delta = 04^{\circ}09'24''$
R = 1600.00'
L = 116.07'
T = 58.06'
- B $\Delta = 12^{\circ}24'52''$
R = 1600.00'
L = 116.06'
T = 58.06'

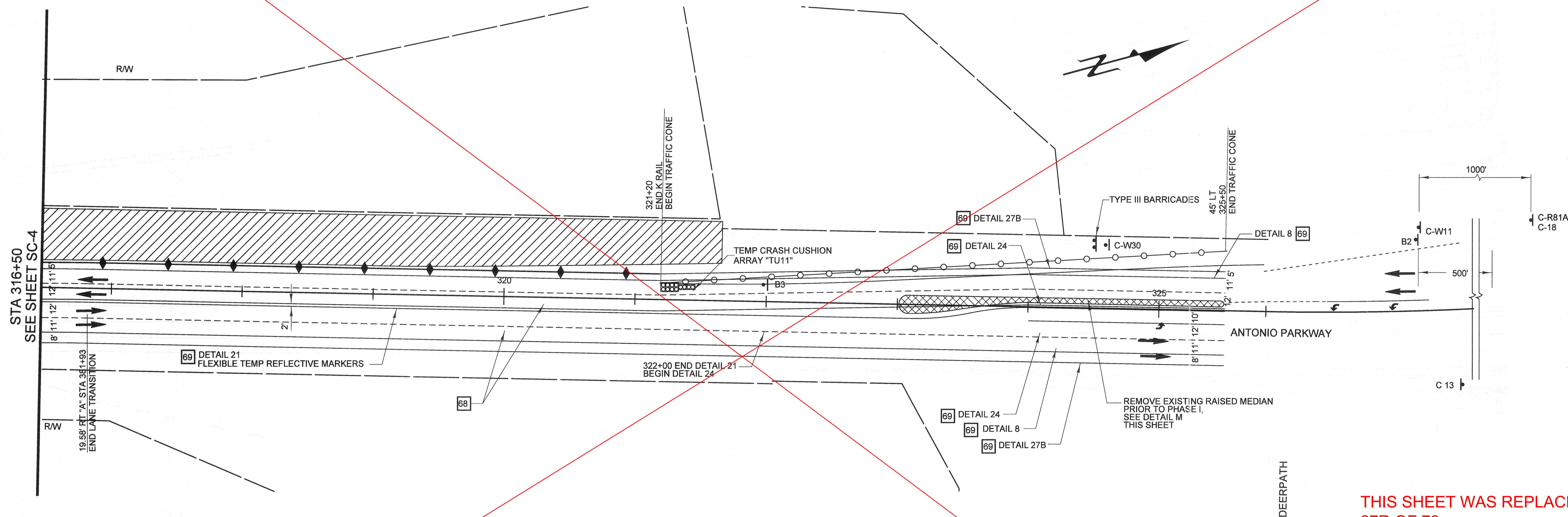
THIS SHEET REPLACES SHEET 24 OF 72 OF THE CONTRACT PLANS

AS BUILT

CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009

PLANS PREPARED BY: HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

PLAN 1" = . 40'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
		ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS	
		STAGE CONSTRUCTION TRAFFIC CONTROL PLAN PHASE I SC-4	
DESIGNED: R. NIERE		SHEET	
DRAWN: N. BUNIA		26R	
CHECKED: S. STROH		OF 72	
SCALE: AS SHOWN		DATE: 11/18/05	
DRAWING NO.: xxx			



CONSTRUCTION NOTES

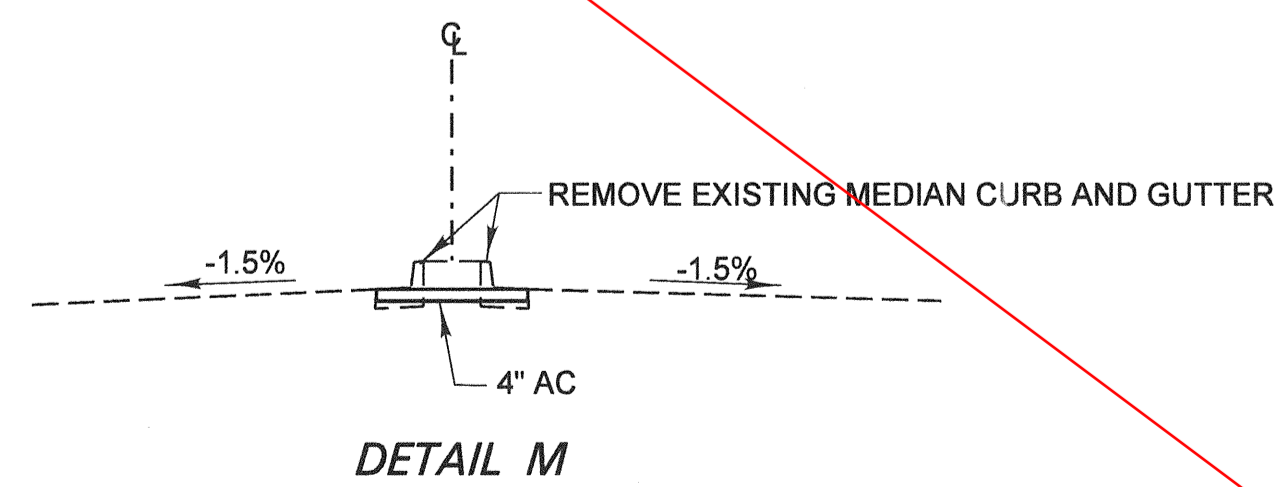
- 68 SANDBLAST CONFLICTING STRIPING
69 PAINT

PHASE I - ANTONIO PKWY

- 1 CONSTRUCT SIDEWALK AND ROADWAY
301+94 TO 307+51
2 CONSTRUCT BRIDGE
3 CONSTRUCT ROADWAY 310+50 TO 311+65

LEGEND

- ← VEHICLE TRAVEL
▨ PHASE 1 CONSTRUCTION
○ DELINEATORS AT 100' O.C.
◆ K RAIL
● TRAFFIC CONE 20' SPACE
I TYPE III BARRICADES

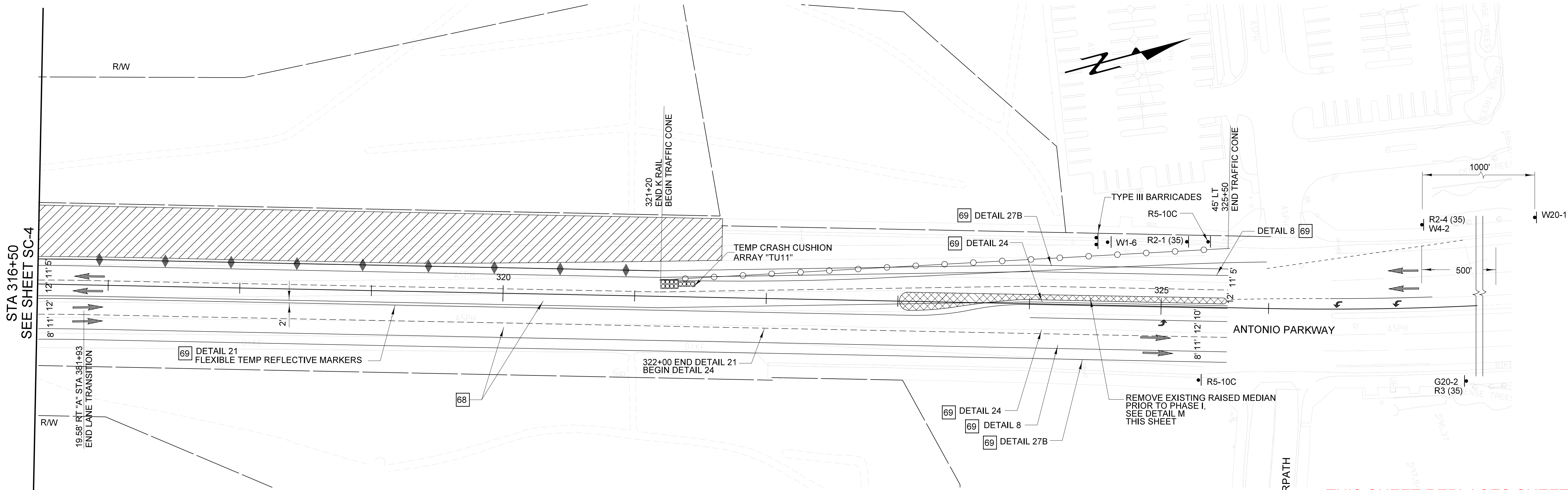


THIS SHEET WAS REPLACED BY SHEET
27R OF 72.

AS BUILT

CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009

PLAN 1" = 40'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
		ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS	
		STAGE CONSTRUCTION TRAFFIC CONTROL PLAN PHASE I SC-5	
MARK	DATE	DESIGNED	SHEET
		N. BUNIA	27
REVISIONS		CHECKED	OF 72
PREPARED UNDER RESPONSIBLE CHARGE OF:		DATE	
STEVEN B. STROH RCE C 59687 (EXP. 12-31-07)		10/31/06	
PLANS PREPARED BY:		SCALE	DATE
HNTB Corporation 200 E. SANDPOINTE AVENUE, SUITE 200 SANTA ANA, CALIFORNIA 92707 TEL (714) 460-1600 FAX (714) 460-1610		AS SHOWN	11/18/05
DATE		DRAWING NO.	
10/31/06		xxx	



THIS SHEET REPLACES SHEET 24 OF 72 OF THE CONTRACT PLANS

CONSTRUCTION NOTES

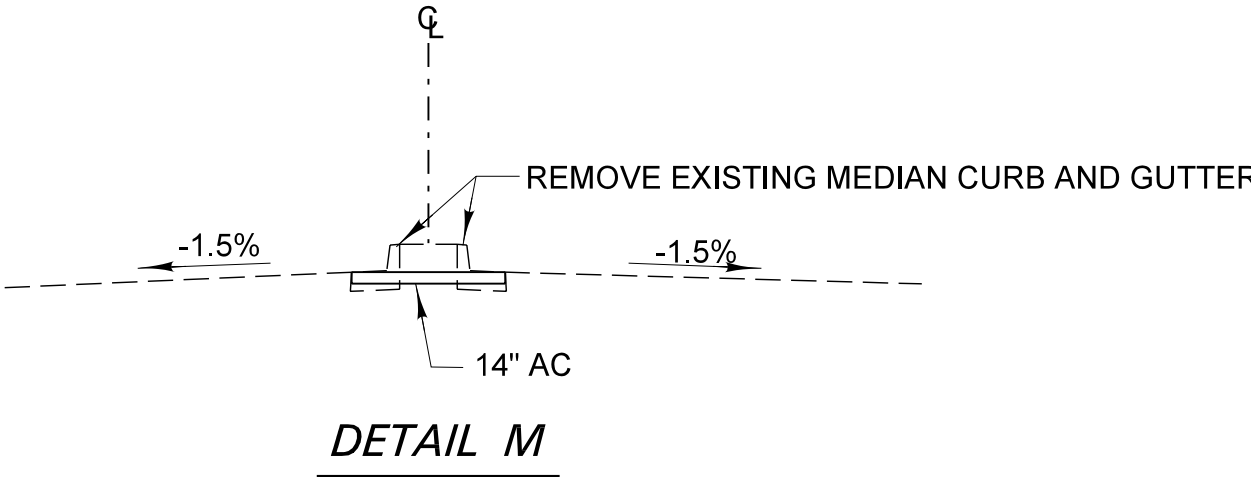
- 68 SANDBLAST CONFLICTING STRIPING
69 PAINT

PHASE I - ANTONIO PKWY

- 1 CONSTRUCT SIDEWALK AND ROADWAY 301+94 TO 307+51
2 CONSTRUCT BRIDGE
3 CONSTRUCT ROADWAY 310+50 TO 311+65

LEGEND

- VEHICLE TRAVEL
PHASE 1 CONSTRUCTION
DELINEATORS AT 100' O.C.
K RAIL
TRAFFIC CONE 20' SPACE
TYPE III BARICADES

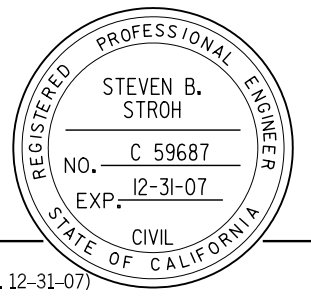


PLANS PREPARED BY:
HNTB
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

PLAN
1" = 40'

MARK DATE DESCRIPTION
REVISIONS

PREPARED UNDER RESPONSIBLE CHARGE OF:



AS BUILT

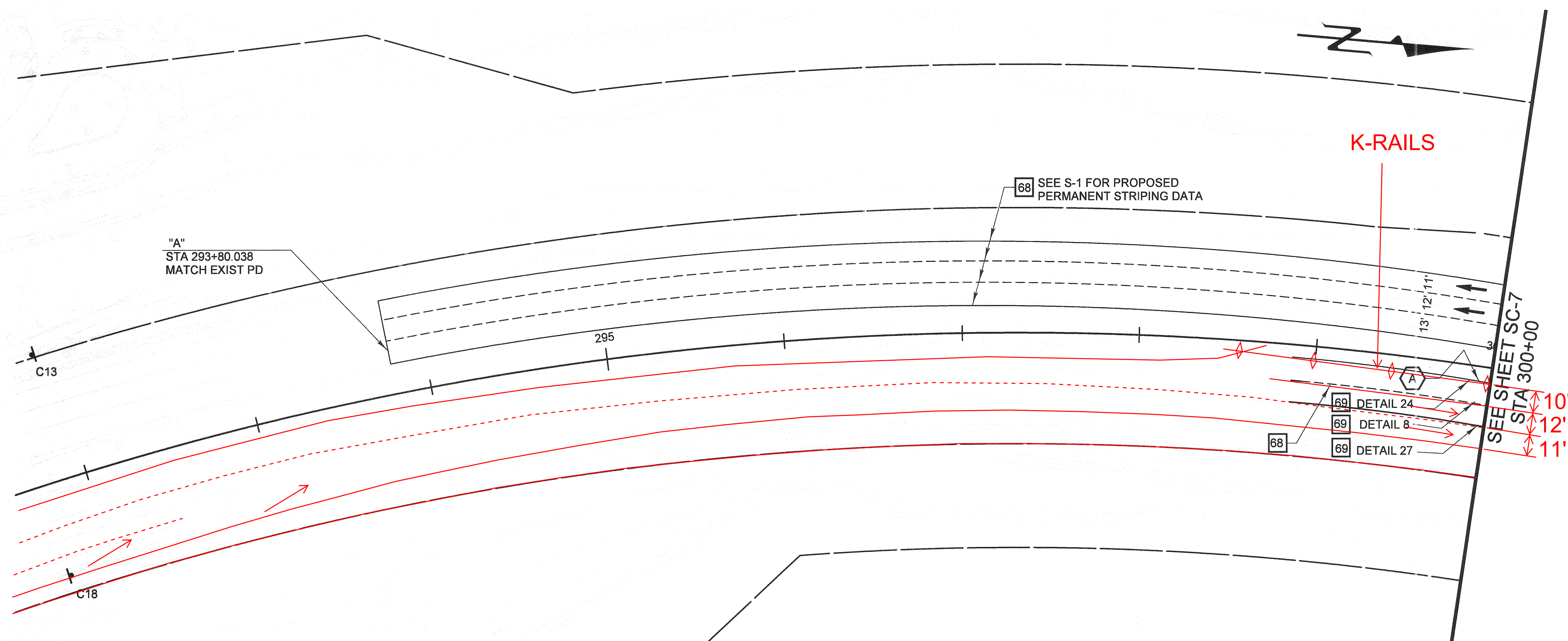
CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009

ORANGE COUNTY
RESOURCES & DEVELOPMENT MANAGEMENT DEPT

ANTONIO PARKWAY
WILDLIFE
IMPROVEMENT PLANS

**STAGE CONSTRUCTION
TRAFFIC CONTROL PLAN
PHASE I
SC-5**

DESIGNED: R. NIERE
DRAWN: N. BUNIA
CHECKED: S. STROH
SCALE: AS SHOWN
DATE: 11/18/05
DRAWING NO.: xxx
SHEET
27R
OF 72



CONSTRUCTION NOTES

- 68 SANDBLAST CONFLICTING STRIPING
- 69 PAINT

LEGEND

- VEHICLE TRAVEL
- STAGE 1 CONSTRUCTION
- DELINEATORS AT 100' O.C.

CURVE DATA

$\Delta = 09^{\circ}22'25''$
 $R = 1000.00'$
 $L = 163.60'$
 $T = 81.98'$

AS BUILT

CORRECTION BY: MN
 CONTRACT NO.: ER28121
 DATE: 12/30/2009

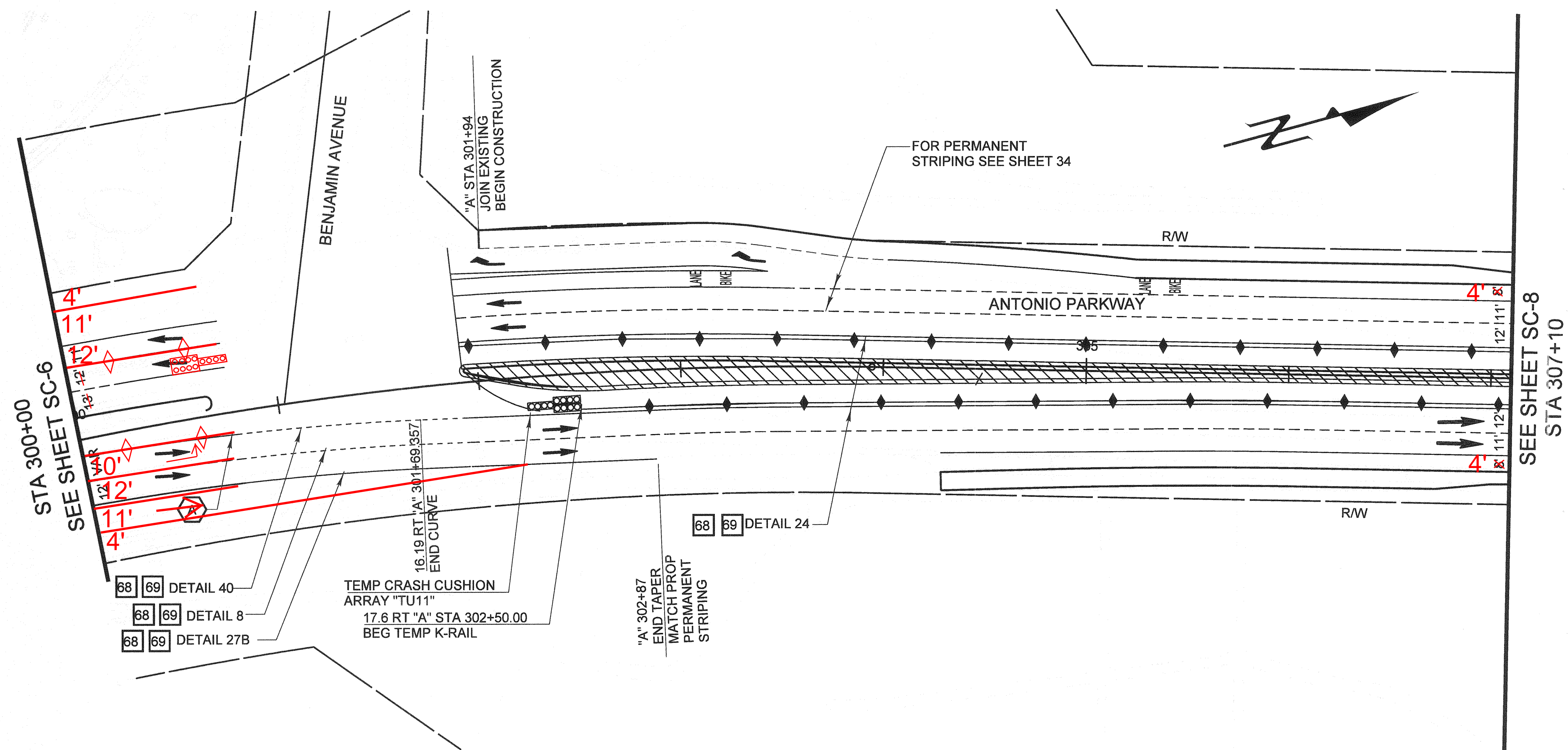
PLANS PREPARED BY: HNTB Corporation
 200 E. SANDPOINTE AVENUE, SUITE 200
 SANTA ANA, CALIFORNIA 92707
 TEL (714) 460-1600 FAX (714) 460-1610

PLAN 1" = 40'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
		ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS	
		STAGE CONSTRUCTION TRAFFIC CONTROL PLAN PHASE II SC-6	
MARK	DATE	DESCRIPTION	SHEET
REVISIONS			28
PREPARED UNDER RESPONSIBLE CHARGE OF:			OF 72
DESIGNED	R. NIEME	CHECKED	S. STROHM
DRAWN	N. BUNIA	DATE	11/18/05
SCALE	AS SHOWN	DRAWING NO.	xxx

Date Plotted: 20 October, 2006 05:38

File Name: J:\34092\CADD\Hwy\Sheets\SC5.dgn

Border sheet last modified 09-Nov-1999



CONSTRUCTION NOTES

68 REMOVE CONFLICTING EXISTING STRIPING.

69 PAINT

LEGEND

← VEHICLE TRAVEL

▨ PHASE 2 CONSTRUCTION

○ DELINEATORS AT 100' O.C.

◆ K RAIL

CURVE DATA

A Δ= 12°43'54"
R= 1264.46'
L= 280.98'
T= 141.07'

AS BUILT

CORRECTION BY: MN

CONTRACT NO.: ER28121

DATE: 12/30/2009

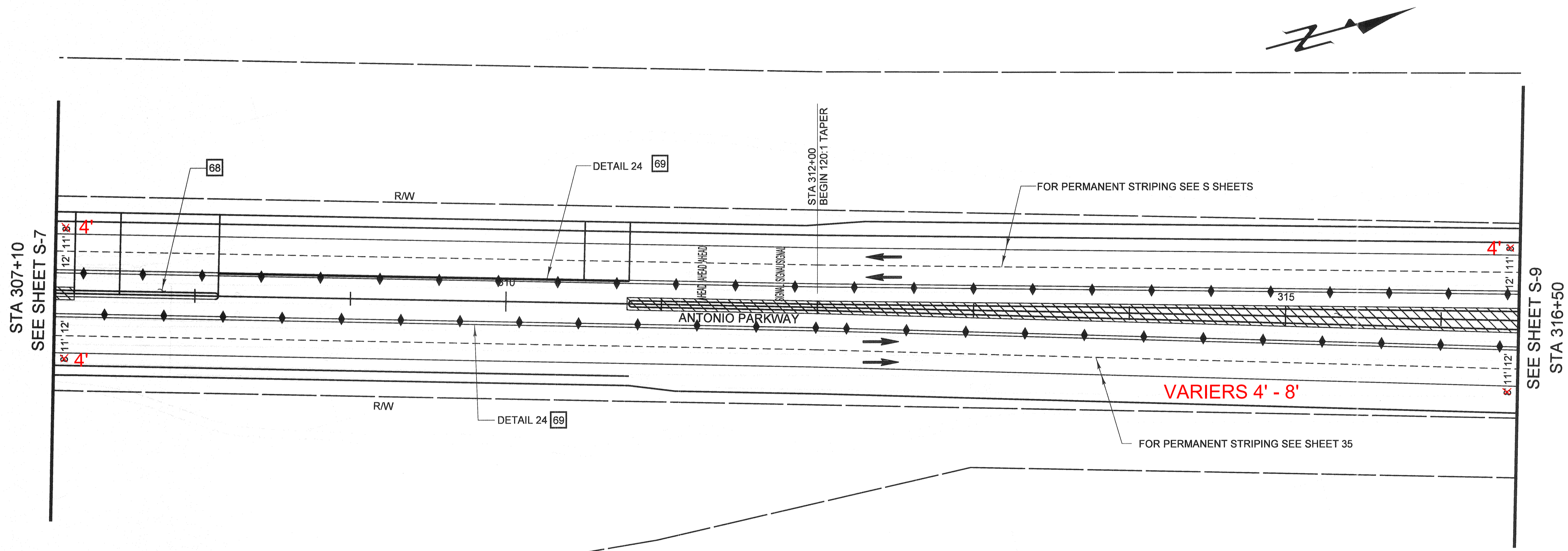
PLANS PREPARED BY: **HNTB**
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

PLAN 1" = 40'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
		ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS	
		STAGE CONSTRUCTION TRAFFIC CONTROL PLAN PHASE II SC-7	
DESIGNED	R. NIERE	CHECKED	S. STROH
DRAWN	N. BUNIA	CHECKED	S. STROH
SCALE	DATE	DRAWING NO.	xxx
AS SHOWN	11/18/05		
SHEET 29		OF 72	

Date Plotted: 20 October, 2006 05:39

File Name: J:\34092\CADD\Hwy\Sheets\SC6.dgn

Border sheet last modified 03-Nov-1999



LEGEND

- ← VEHICLE TRAVEL
- ▨ PHASE 2 CONSTRUCTION
- ◆ K RAIL

CONSTRUCTION NOTES

- 68 SANDBLAST CONFLICTING STRIPING
- 69 PAINT

AS BUILT

CORRECTION BY: MN
 CONTRACT NO.: ER28121
 DATE: 12/30/2009

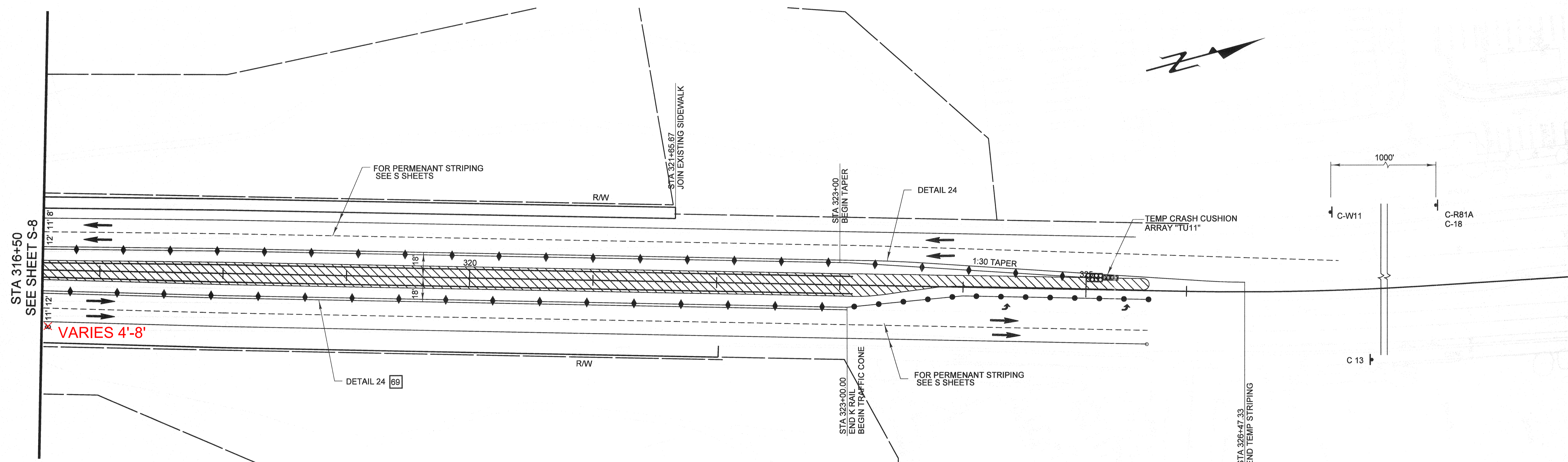
PLANS PREPARED BY:
HNTB
 HNTB Corporation
 200 E. SANDPOINTE AVENUE, SUITE 200
 SANTA ANA, CALIFORNIA 92707
 TEL (714) 460-1600 FAX (714) 460-1610

PLAN 1" = 40'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
		ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS	
		STAGE CONSTRUCTION TRAFFIC CONTROL PLAN PHASE II SC-8	
DESIGNED <u>R. NIERE</u>	SHEET		30 OF 72
DRAWN <u>N. BLUNA</u>	CHECKED <u>S. STROH</u>		
SCALE AS SHOWN	DATE 11/18/05	DRAWING NO. xxx	

PREPARED UNDER RESPONSIBLE CHARGE OF:

STEVEN B. STROH
 REG. NO. C 59687
 EXP. 12-31-07
 CIVIL
 STATE OF CALIFORNIA

10/21/06



CONSTRUCTION NOTES

- [68] SANDBLAST CONFLICTING STRIPING
[69] PAINT

LEGEND

- ← VEHICLE TRAVEL
[Hatched Box] PHASE 2 CONSTRUCTION (MEDIAN 323+09 TO 325+50)
◆ K RAIL
●●● TRAFFIC CONE 20' SPACE
[Type III Barcade Symbol] TYPE III BARCADES

AS BUILT

CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009

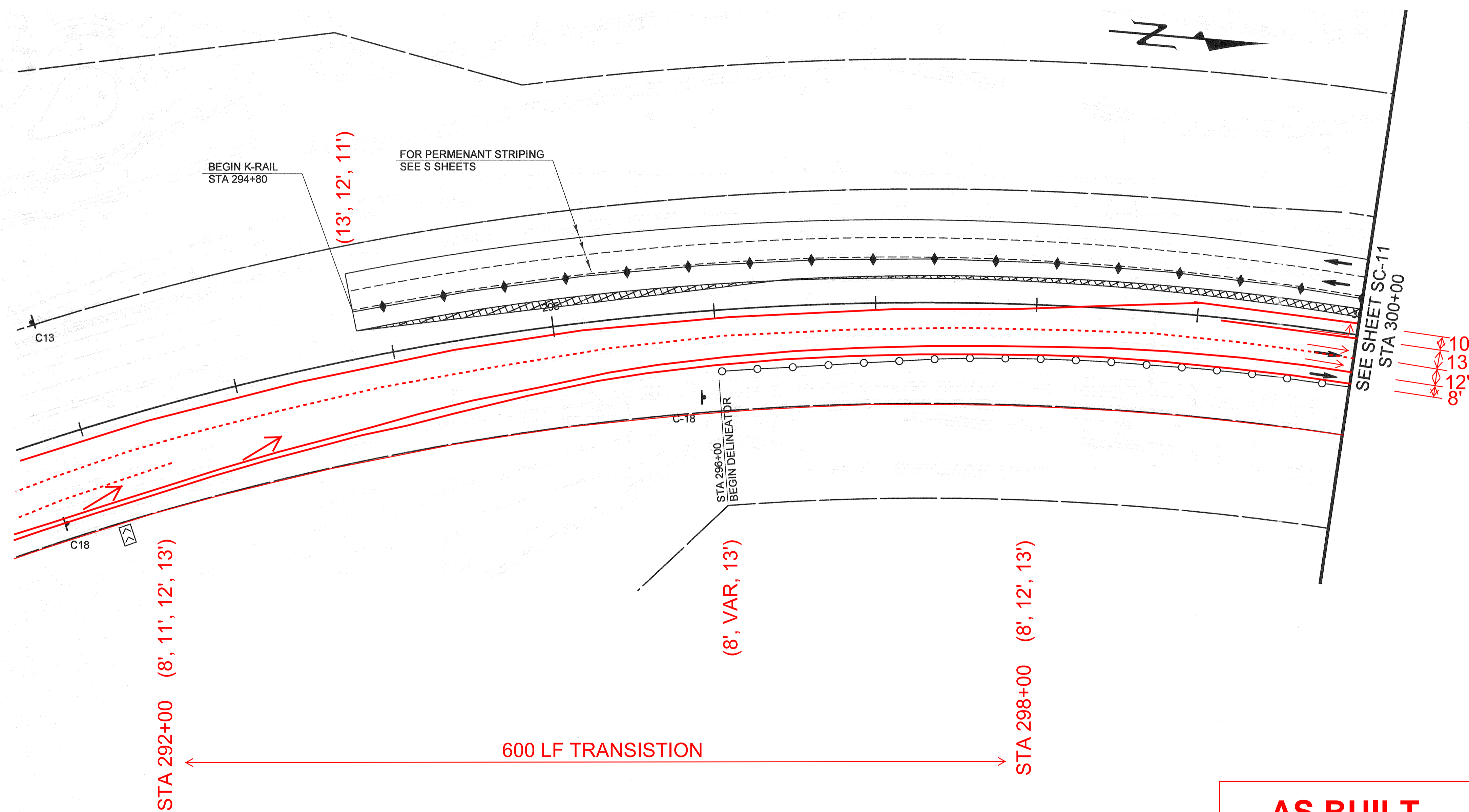
PLANS PREPARED BY:
HNTB
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

PLAN 1" = 40'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
		ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS	
		STAGE CONSTRUCTION TRAFFIC CONTROL PLAN PHASE II SC-9	
MARK	DATE	DESIGNED	SHEET
REVISIONS		DESIGNED <u>R. NIERE</u>	31
PREPARED UNDER RESPONSIBLE CHARGE OF:		CHECKED <u>S. STROH</u>	OF 72
[Professional Seal: STEVEN B. STROH, RCE C 59687, EXP. 12-31-07, CIVIL, STATE OF CALIFORNIA]		SCALE	DRAWING NO.
STEVEN B. STROH RCE C 59687 (EXP. 12-31-07)		AS SHOWN	xxx

Date Plotted: 20 October, 2006 05:39

File Name: J:\34092\CADD\Hwy\Sheets\SC8.dgn

Border sheet last modified 09-Nov-1999



- LEGEND**
- ← VEHICLE TRAVEL
 - ▨ STAGE 3 CONSTRUCTION
 - DELINEATORS AT 100' O.C.
 - ⊥ SIGN
 - ⋈ ARROW BOARD OR VMS AS INDICATED

AS BUILT

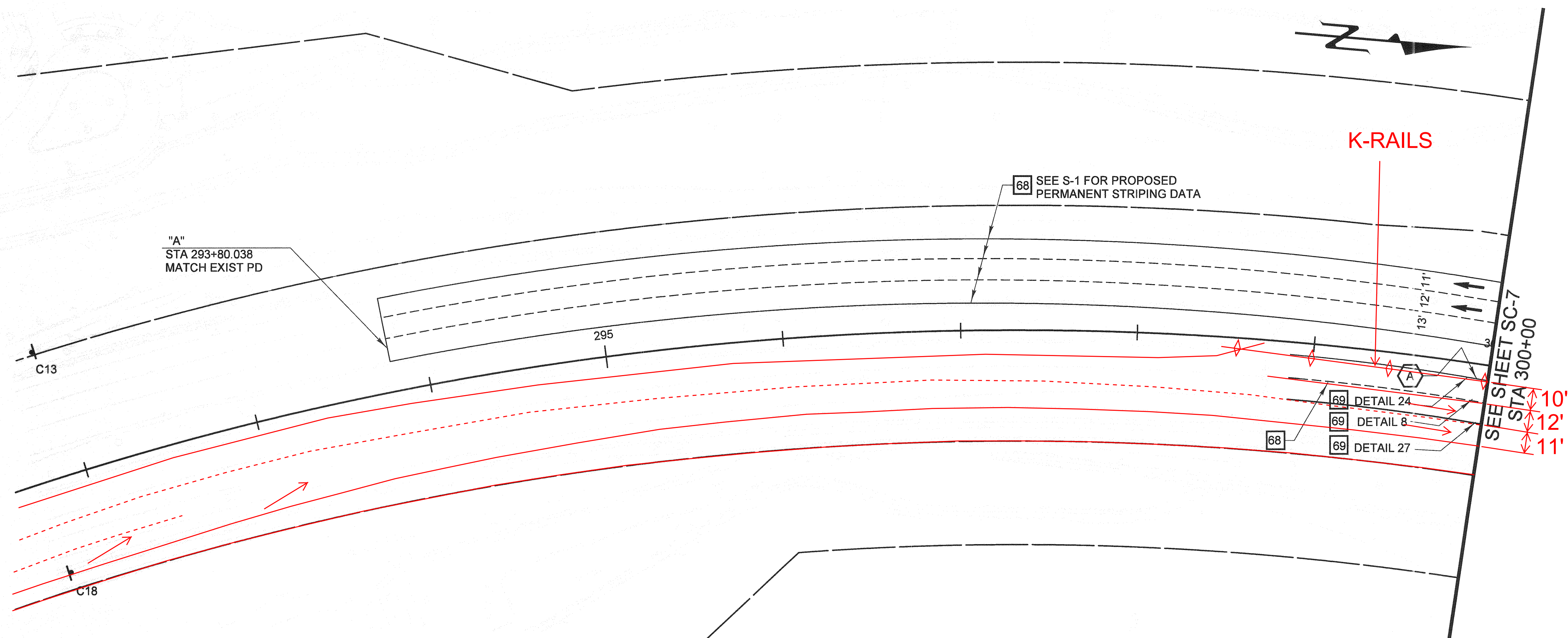
CORRECTION BY: MN

CONTRACT NO.: ER28121

DATE: 12/30/2009

PLANS PREPARED BY: **HNTB** Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

PLAN 1" = 40'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
		ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS	
		STAGE CONSTRUCTION TRAFFIC CONTROL PLAN PHASE III SC-10	
MARK	DATE	DESIGNED <u>R. NIERE</u>	SHEET 32 OF 72
REVISIONS		DRAWN <u>N. BUNIA</u>	CHECKED <u>S. STROH</u>
PREPARED UNDER RESPONSIBLE CHARGE OF:		SCALE AS SHOWN	DATE 11/18/05
STEVEN B. STROH RCE C 59687 (EXP. 12-31-07)		CIVIL DATE	DRAWING NO. xxx



CONSTRUCTION NOTES

- 68 SANDBLAST CONFLICTING STRIPING
- 69 PAINT

LEGEND

- ← VEHICLE TRAVEL
- ▨ STAGE 1 CONSTRUCTION
- DELINEATORS AT 100' O.C.

CURVE DATA

△ = 09°22'25"
 R = 1000.00'
 L = 163.60'
 T = 81.98'

AS BUILT

CORRECTION BY: MN
 CONTRACT NO.: ER28121
 DATE: 12/30/2009

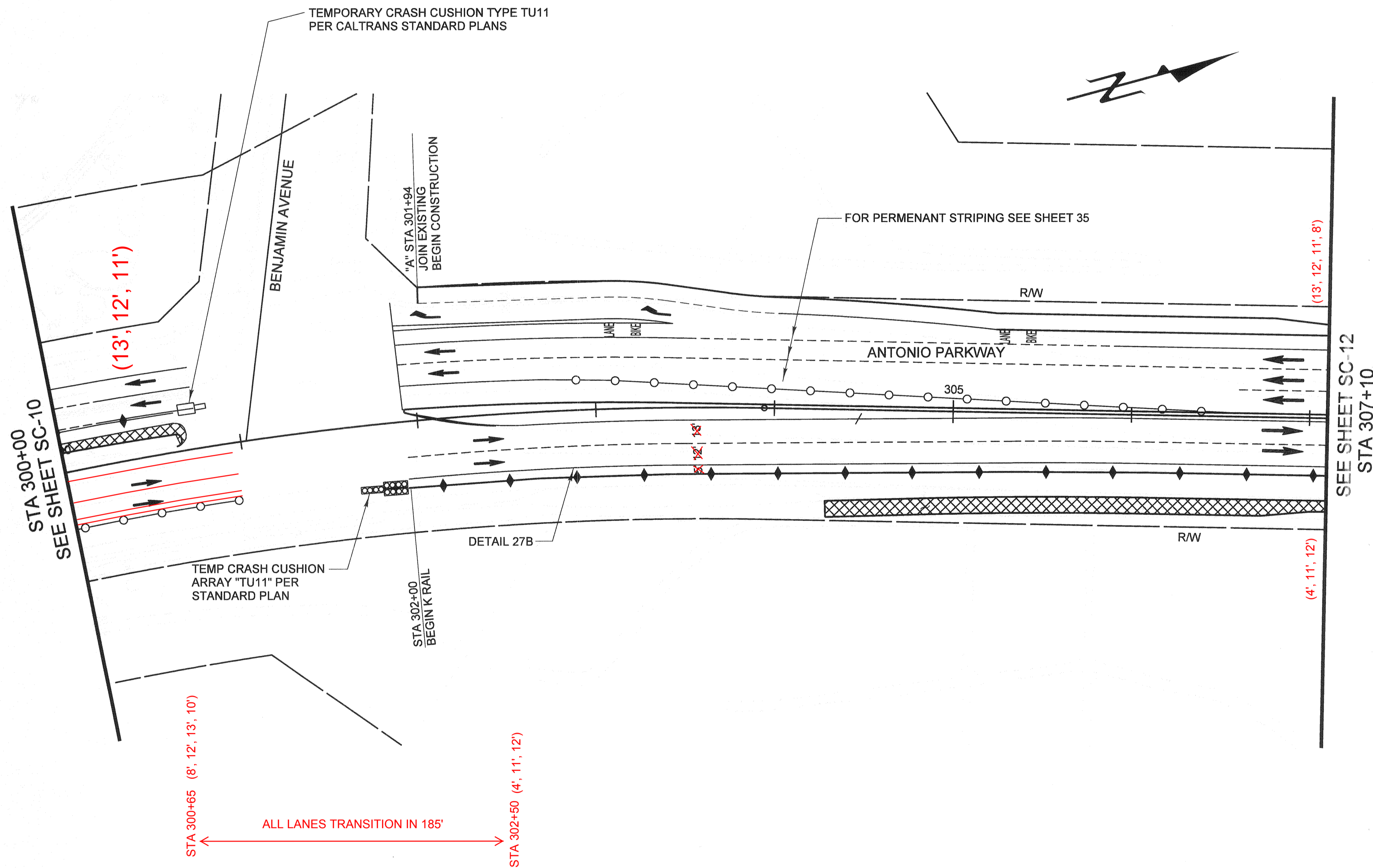
PLANS PREPARED BY: HNTB Corporation
 200 E. SANDPOINTE AVENUE, SUITE 200
 SANTA ANA, CALIFORNIA 92707
 TEL (714) 460-1600 FAX (714) 460-1610

PLAN 1" = 40'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
		ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS	
		STAGE CONSTRUCTION TRAFFIC CONTROL PLAN PHASE II SC-6	
MARK	DATE	DESCRIPTION	
REVISIONS			
PREPARED UNDER RESPONSIBLE CHARGE OF:			
<div style="display: flex; align-items: center;"> <div style="margin-left: 10px;"> DESIGNED: R. NIEME DRAWN: N. BUNIA CHECKED: S. STROHM SCALE: AS SHOWN DATE: 11/18/05 DRAWING NO.: xxx </div> </div>			
SHEET 28 OF 72			

Date Plotted: 20 October, 2006 05:38

File Name: J:\34092\CADD\Hwy\Sheets\SC5.dgn

Border sheet last modified 09-Nov-1999



PHASE III - ANTONIO PKWY
1 CONSTRUCT SIDEWALK AND ROADWAY
304+29.45 TO 300+02.21

LEGEND

- VEHICLE TRAVEL
- PHASE 3 CONSTRUCTION
- DELINEATORS AT 100' O.C.
- K RAIL

CONSTRUCTION NOTES

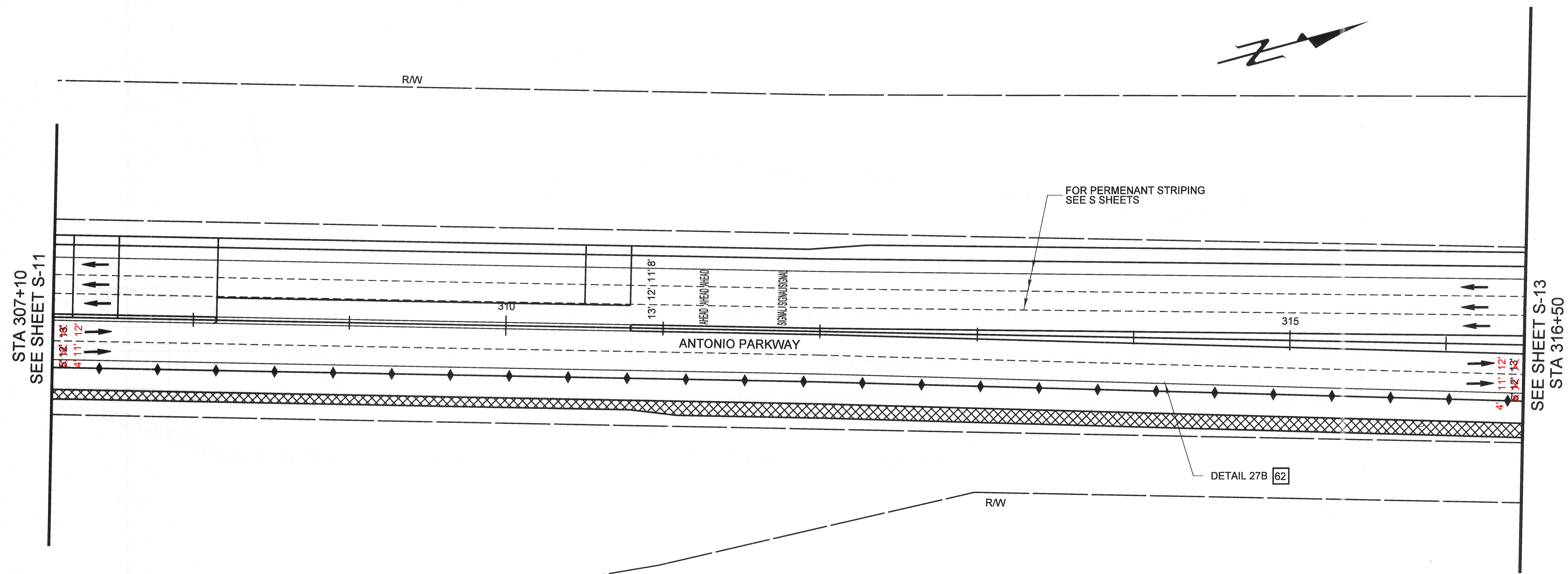
- 61 SANDBLAST CONFLICTING STRIPING
- 62 PAINT

AS BUILT
CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009

PLANS PREPARED BY:
HNTB
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

PLAN 1" = 40'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS		STAGE CONSTRUCTION TRAFFIC CONTROL PLAN PHASE III SC-11	
DESIGNED: R. NIERE	CHECKED: S. STROH	SHEET 33 OF 72	
DRAWN: N. BUNIA	CHECKED: S. STROH	SCALE: AS SHOWN	
DATE: 11/18/05	DRAWING NO. XXX	DATE: 11/18/05	

PREPARED UNDER RESPONSIBLE CHARGE OF:
STEVEN B. STROH
C 59687
EXP. 12-31-07
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA



- LEGEND**
- ← VEHICLE TRAVEL
 - XXXX PHASE 3 CONSTRUCTION
 - DELINEATORS AT 100' O.C.
 - ◆ K RAIL

- CONSTRUCTION NOTES**
- 61 SANDBLAST CONFLICTING STRIPING
 - 62 PAINT

AS BUILT

CORRECTION BY: MN

CONTRACT NO.: ER28121

DATE: 12/30/2009

PLANS PREPARED BY: **HNTB**

HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

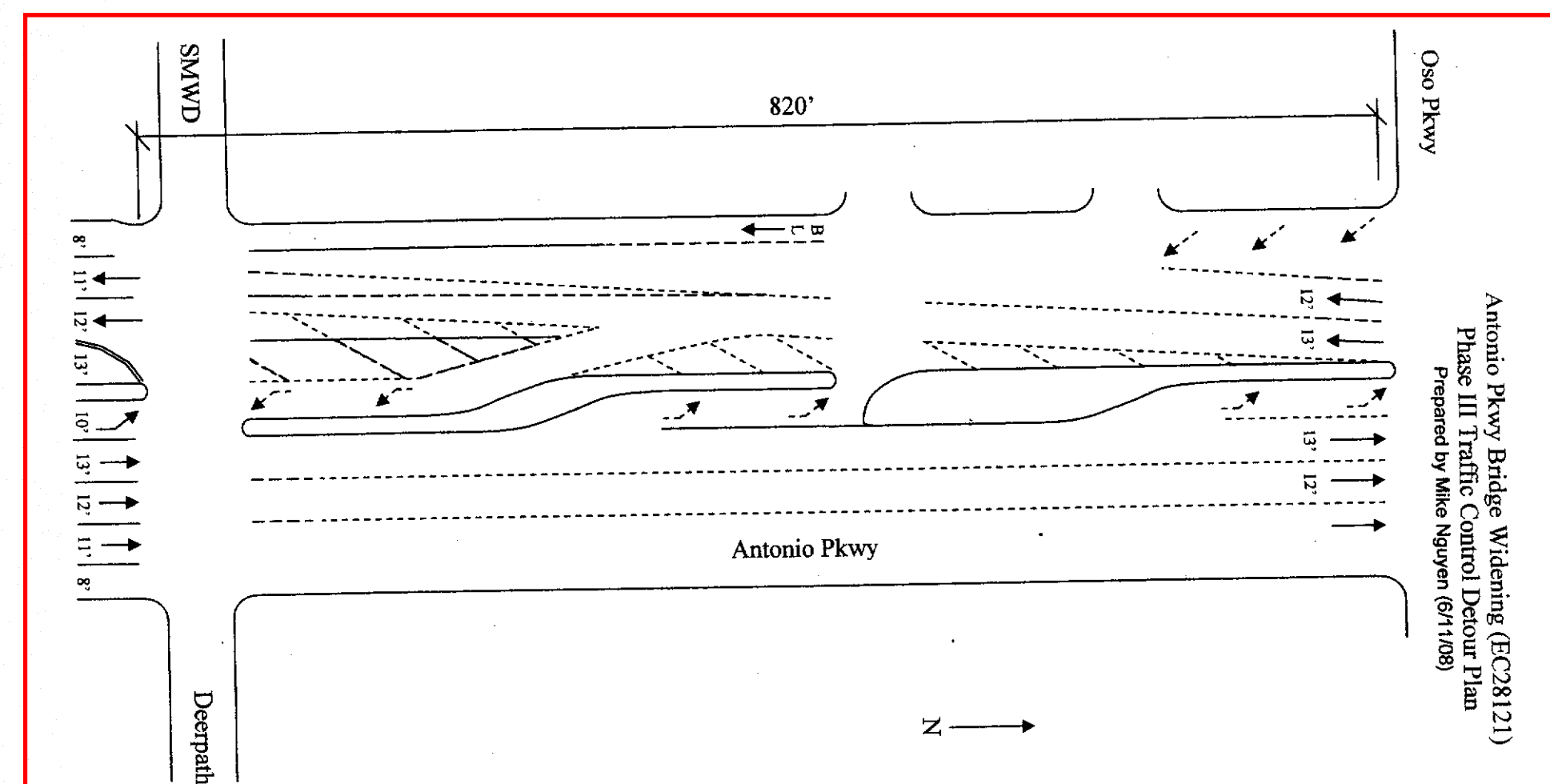
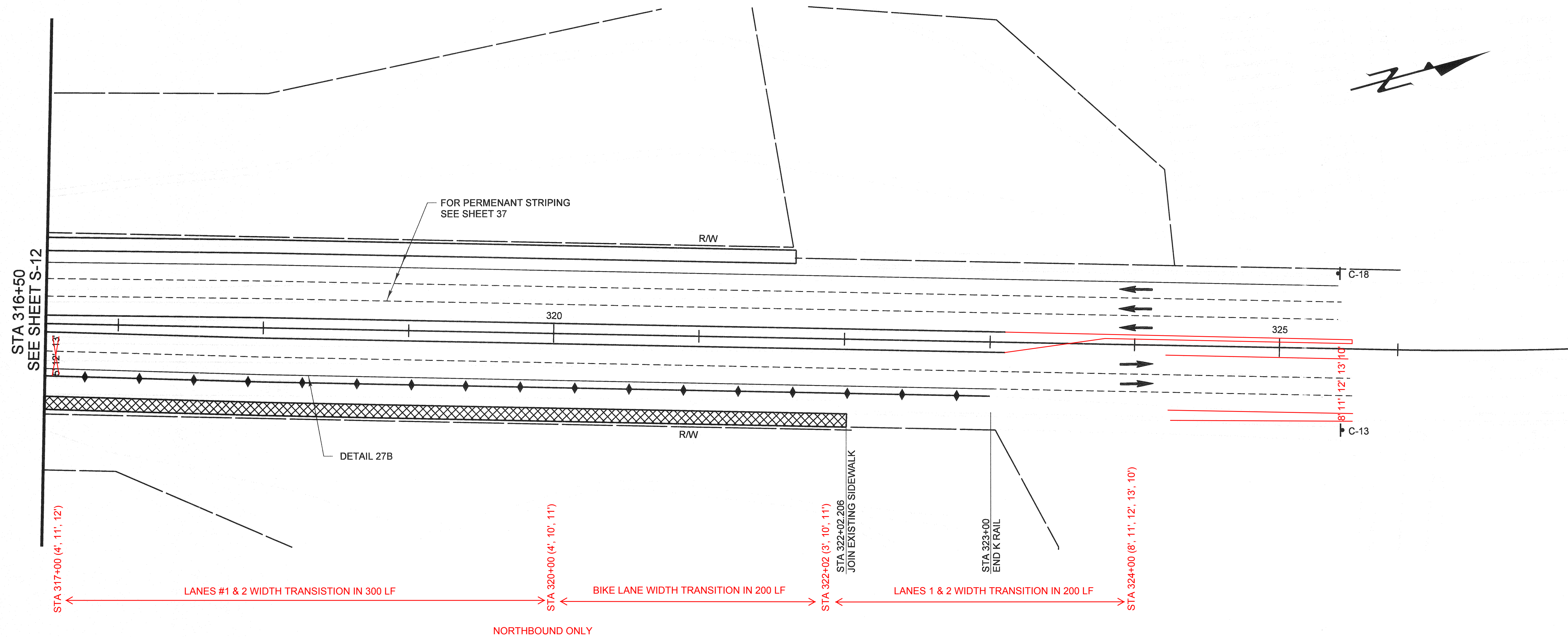
PLAN 1" = . 40'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
		ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS	
		STAGE CONSTRUCTION TRAFFIC CONTROL PLAN PHASE III SC-12	
DESIGNED	R. NIERE	CHECKED	S. STROH
DRAWN	N. BLUMA	CHECKED	S. STROH
SCALE	AS SHOWN	DATE	11/18/05
DRAWING NO.		XXX	
SHEET		34 OF 72	

CONSTRUCTION NOTES

- 68 SANDBLAST CONFLICTING STRIPING
69 PAINT

LEGEND

- ← VEHICLE TRAVEL
▨ PHASE 3 CONSTRUCTION
○ DELINEATORS AT 100' O.C.
◆ K RAIL



AS BUILT

CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009

PLANS PREPARED BY: HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

PLAN 1" = 40'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS		STAGE CONSTRUCTION TRAFFIC CONTROL PLAN PHASE III SC-13	
DESIGNED: R. NIERE	DRAWN: N. BUNIA	CHECKED: S. STROH	SHEET 35 OF 72
SCALE: AS SHOWN	DATE: 11/18/06	DRAWING NO.: xxx	

PREPARED UNDER RESPONSIBLE CHARGE OF:
STEVEN B. STROH
RCE C 59687 (EXP. 12-31-07)

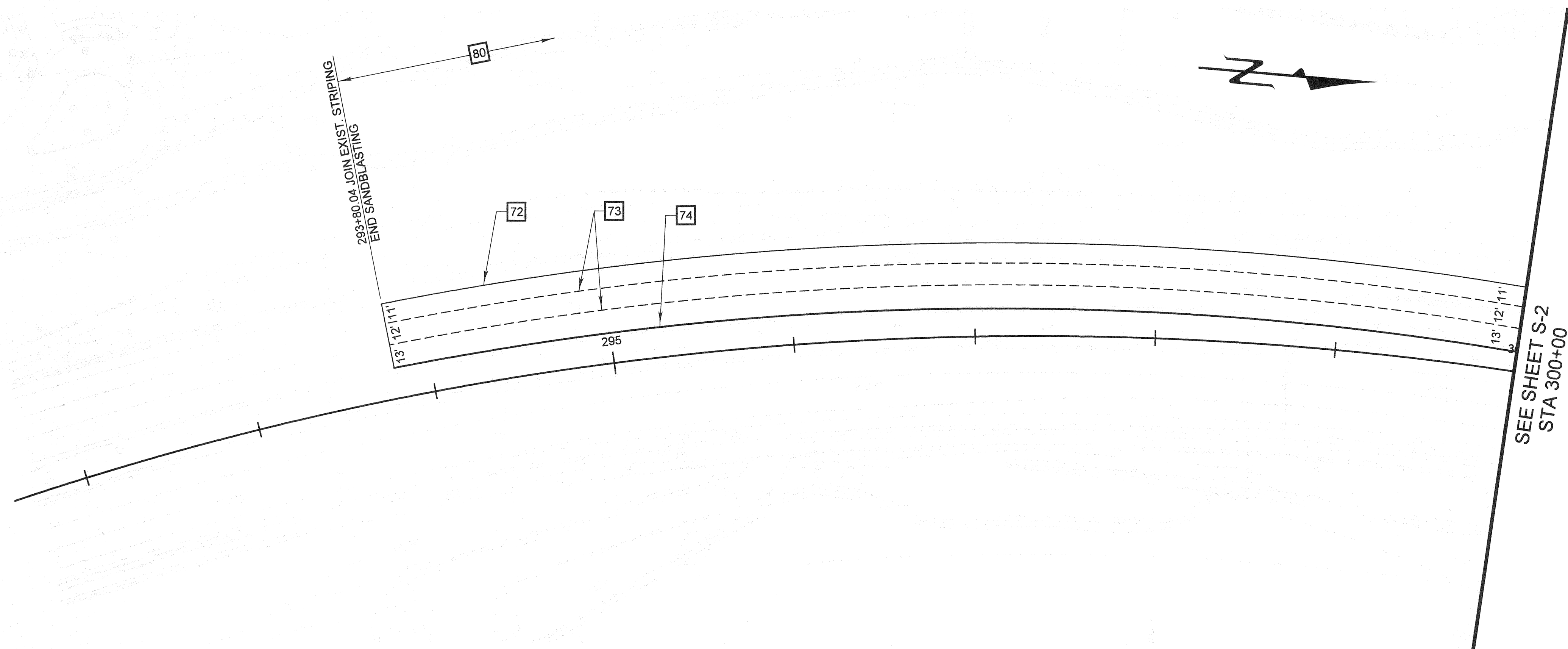
REGISTERED PROFESSIONAL ENGINEER
STEVEN B. STROH
NO. C 59687
EXP. 12-31-07
CIVIL
STATE OF CALIFORNIA

10/31/06

Date Plotted: 20 October, 2006 05:38

File Name: J:\34092\CADD\Hwy\Sheets\SC12.dgn

Border sheet last modified 09-Nov-1999



CONSTRUCTION NOTES

- 71 ALL WORK AND MATERIAL SHALL CONFORM TO THE STATE STANDARD PLANS AND SPECIFICATIONS DATED JULY 2002 AND THE CURRENT TRAFFIC MANUAL.
- 72 PAINT 6" WHITE BIKE LANE LINE PER DETAIL 39.
- 73 PAINT 4" WHITE LANE LINE PER DETAIL 9.
- 74 INSTALL LEFT EDGE LINE PER DETAIL 26.
- 80 REMOVE CONFLICTING STRIPING BY SANDBLASTING.

NO AS BUILT CHANGES

AS BUILT

CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009

PLANS PREPARED BY: HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

HNTB

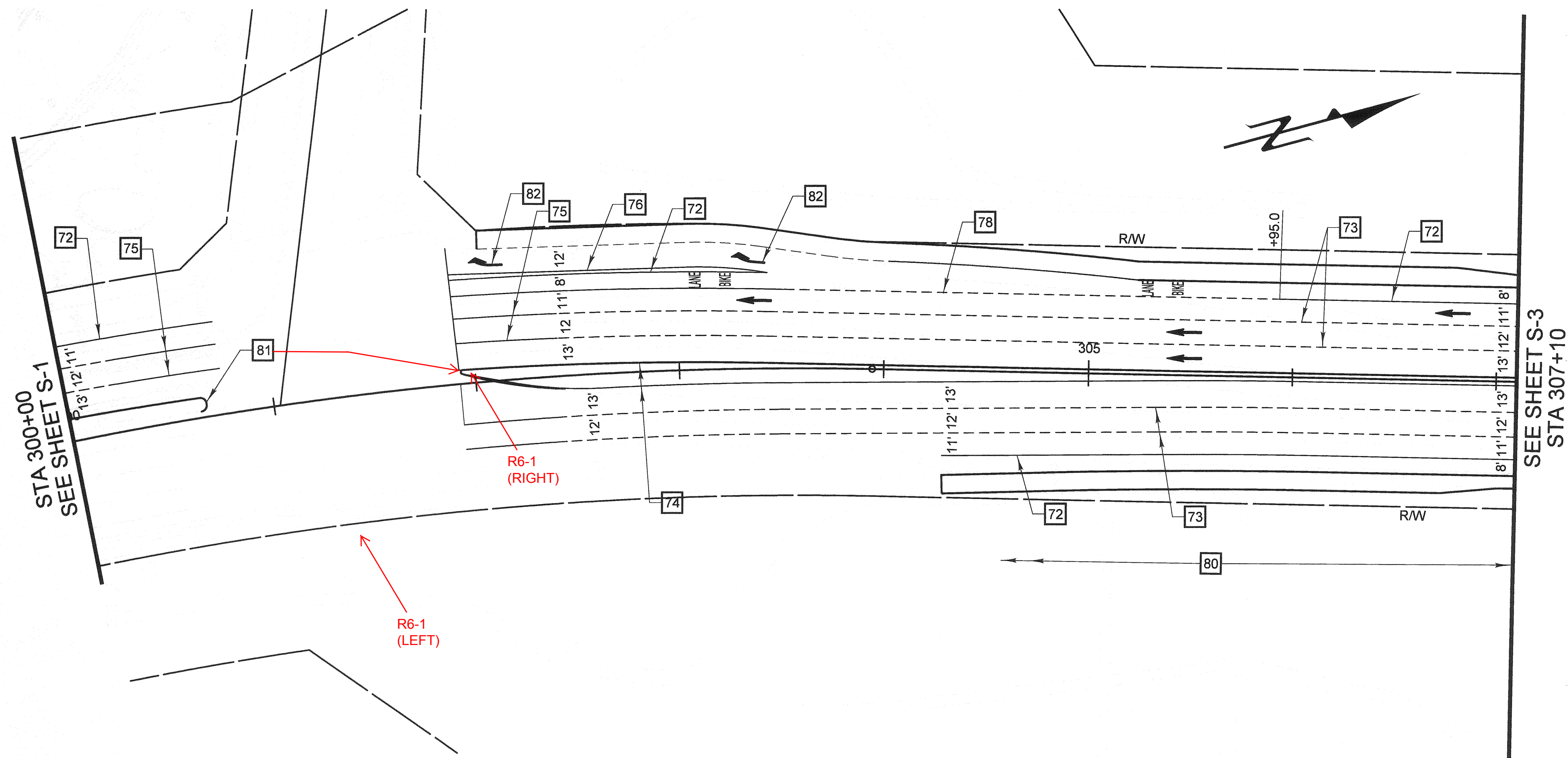
PLAN 1" = 40'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
		ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS	
		STRIPING AND SIGNING PLAN S-1	
DESIGNED <u>R. NIERE</u>		SHEET 36 OF 72	
DRAWN <u>N. BUNIA</u>		CHECKED <u>S. STROH</u>	
SCALE AS SHOWN		DATE 11/18/05	
DRAWING NO. XXX			

PREPARED UNDER RESPONSIBLE CHARGE OF	
STEVEN B. STROH C 59687 EXP. 12-31-07 REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA	
STEVEN B. STROH RCE C 59687 (EXP. 12-31-07)	

Date Plotted: 20 October, 2006 05:36

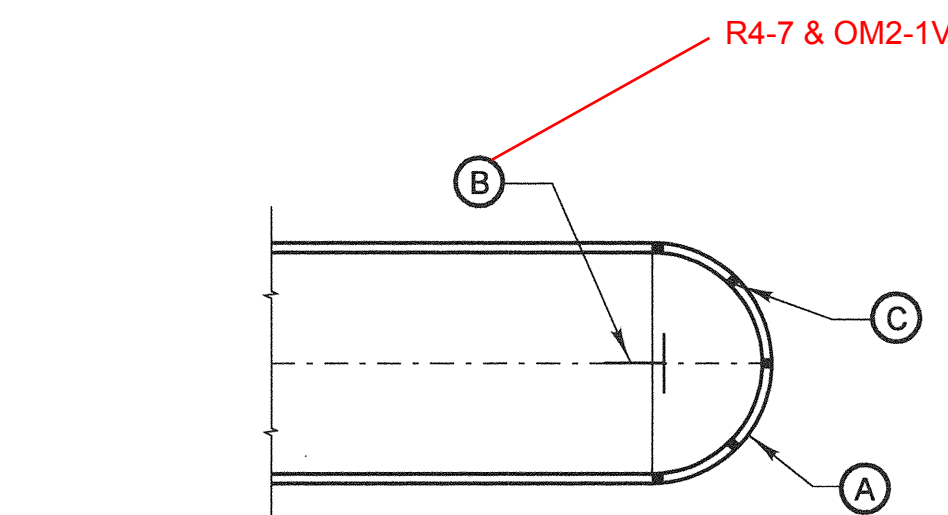
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Border sheet last modified 09-Nov-1999



CONSTRUCTION NOTES

- 71 ALL WORK AND MATERIAL SHALL CONFORM TO THE STATE STANDARD PLANS AND SPECIFICATIONS DATED JULY 2002 AND THE CURRENT TRAFFIC MANUAL.
- 72 PAINT 6" WHITE BIKE LANE LINE PER DETAIL 39.
- 73 PAINT 4" WHITE LANE LINE PER DETAIL 9.
- 74 INSTALL LEFT EDGE LINE PER DETAIL 26.
- 75 PAINT 50' SOLID 4" WHITE WITH TYPE G RPM AT END POINTS.
- 76 PAINT 8" WHITE PER DETAIL 38.
- 77 PAINT 4" WHITE PER DETAIL 27B.
- 78 PAINT 6" WHITE BIKE LANE LINE PER DETAIL 39A.
- 80 REMOVE CONFLICTING STRIPING BY SANDBALSTING.
- 81 INSTALL MEDIAN NOSE TREATMENT PER DETAIL HEREON.
- 82 INSTALL TYPE IV ARROW MARKING.



MEDIAN NOSE TREATMENT

NOTES:

- A PAINT MEDAIN NOSE WITH HIGHLY REFLECTIVE PREMIXED WHITE TRAFFIC PAINT WITH GLASS BEADS.
- B INSTALL FLEXIBLE VERTICAL TYPE K MARKER, R7, R10 OR TYPE N-1 ON TESLAR POST AS INDICATED ON THE PLAN.
- C INSTALL YELLOW REFLECTIVE PAVEMENT MARKERS ON TOP SURFACE OF MEDIAN CURB NOSE AT 2' C.C. SPACING (MIN. 5 MARKERS) PLACE REFLECTIVE SURFACE OF MARKERS PERPENDICULAR TO CL OF ROADWAY.

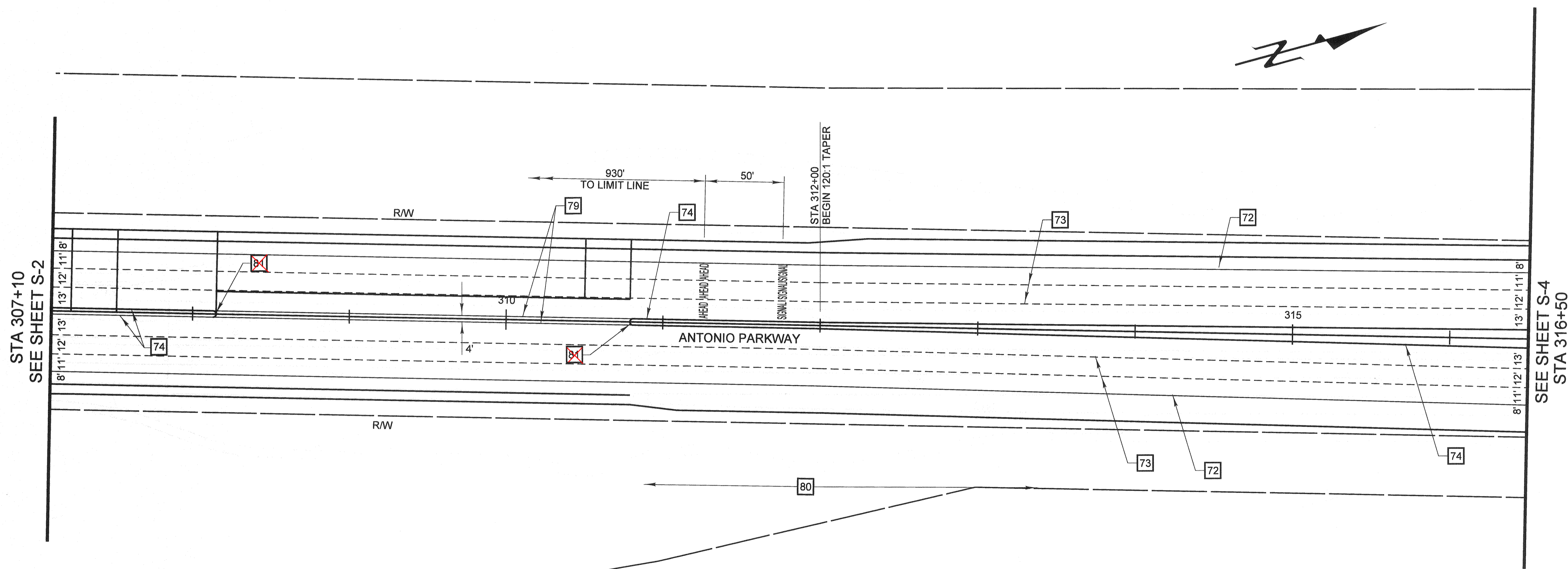
INSTALL FLEXIBLE VERTICAL TYPE OM2-1V, R4-7, R6-1 OR TYPE N-1 ON TESLAR POST AS INDICATED ON THE PLAN

AS BUILT

CORRECTION BY: MN
 CONTRACT NO.: ER28121
 DATE: 12/30/2009

PLANS PREPARED BY: **HNTB** Corporation
 200 E. SANDPOINTE AVENUE, SUITE 200
 SANTA ANA, CALIFORNIA 92707
 TEL (714) 460-1600 FAX (714) 460-1610

PLAN 1" = 40'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
		ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS	
		STRIPING AND SIGNING PLAN S-2	
DESIGNED <u>R. NIERE</u>		SHEET 37 OF 72	
DRAWN <u>N. BUNIA</u>		CHECKED <u>S. STROH</u>	
SCALE AS SHOWN		DATE 11/08/05	
DRAWING NO. xxx			



CONSTRUCTION NOTES

- 71 ALL WORK AND MATERIAL SHALL CONFORM TO THE STATE STANDARD PLANS AND SPECIFICATIONS DATED JULY 2002 AND THE CURRENT TRAFFIC MANUAL.
- 72 PAINT 6" WHITE BIKE LANE LINE PER DETAIL 39.
- 73 PAINT 4" WHITE LANE LINE PER DETAIL 9.
- 74 INSTALL LEFT EDGE LINE PER DETAIL 26.
- 79 INSTALL DETAIL 28 WITH RPM INSTALLED OVER THE STRIPING PER DETAIL 30
- 80 REMOVE CONFLICTING STRIPING BY SANDBALSTING.
- 81 INSTALL MEDIAN NOSE TREATMENT PER DETAIL SEE SHEET S-2

AS BUILT

CORRECTION BY: MN
 CONTRACT NO.: ER28121
 DATE: 12/30/2009

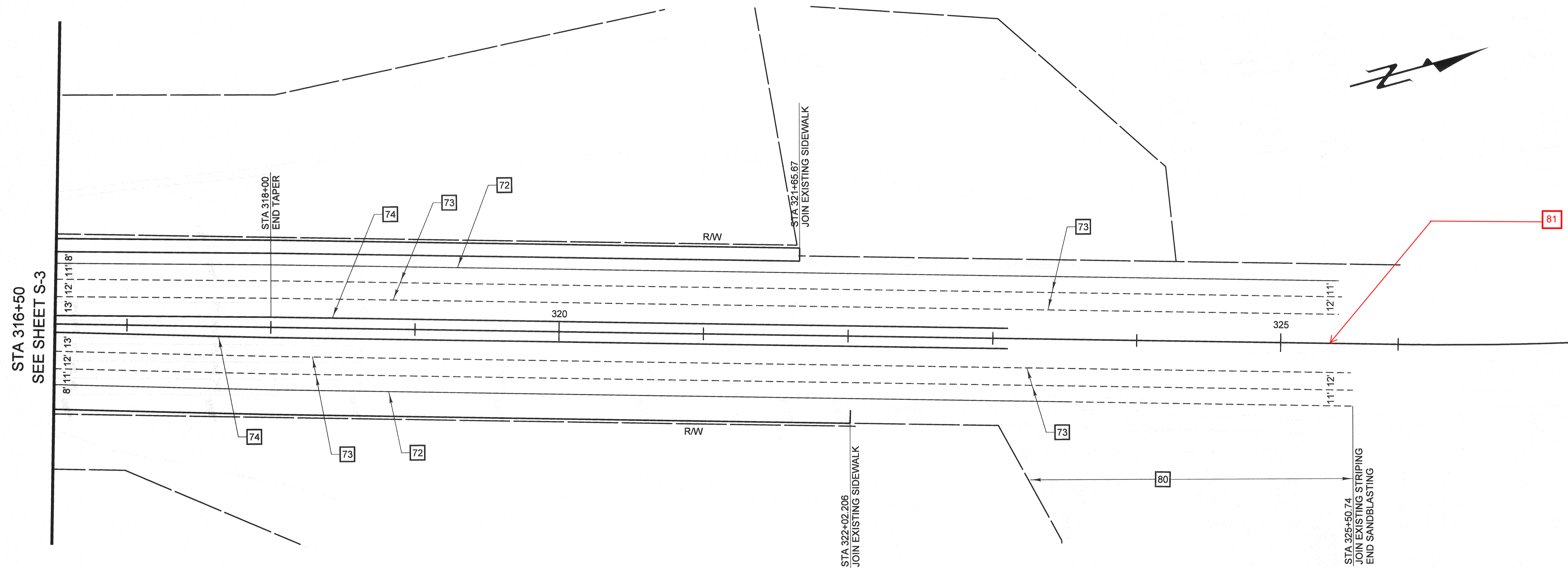
PLANS PREPARED BY: **HNTB** Corporation
 200 E. SANDPOINTE AVENUE, SUITE 200
 SANTA ANA, CALIFORNIA 92707
 TEL (714) 460-1600 FAX (714) 460-1610

PLAN 1" = 40'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS		STRIPING AND SIGNING PLAN S-3	
DESIGNED <u>R. NIERE</u>	CHECKED <u>S. STROH</u>	SHEET 38 OF 72	
DRAWN <u>N. BUNIA</u>	CHECKED <u>S. STROH</u>	DRAWING NO. xxx	
SCALE AS SHOWN	DATE 11/18/05	DATE 11/18/05	

Date Plotted: 20 October, 2006 05:37

File Name: J:\34092\CADD\Hwy\Sheets\PD3.dgn

Border sheet last modified 08-Nov-1999



CONSTRUCTION NOTES

- 71 ALL WORK AND MATERIAL SHALL CONFORM TO THE STATE STANDARD PLANS AND SPECIFICATIONS DATED JULY 2002 AND THE CURRENT TRAFFIC MANUAL.
- 72 PAINT 6" WHITE BIKE LANE LINE PER DETAIL 39.
- 73 PAINT 4" WHITE LANE LINE PER DETAIL 9.
- 74 INSTALL LEFT EDGE LINE PER DETAIL 26.
- 80 REMOVE CONFLICTING STRIPING BY SANDBLASTING
- 81 INSTALL MEDIAN NOSE TREATMENT PER DETAIL SEE SHEET S-2

AS BUILT

CORRECTION BY: MN

CONTRACT NO.: ER28121

DATE: 12/30/2009

PLANS PREPARED BY: **HNTB** Corporation
 200 E. SANDPOINT AVENUE, SUITE 200
 SANTA ANA, CALIFORNIA 92707
 TEL (714) 460-1600 FAX (714) 460-1610

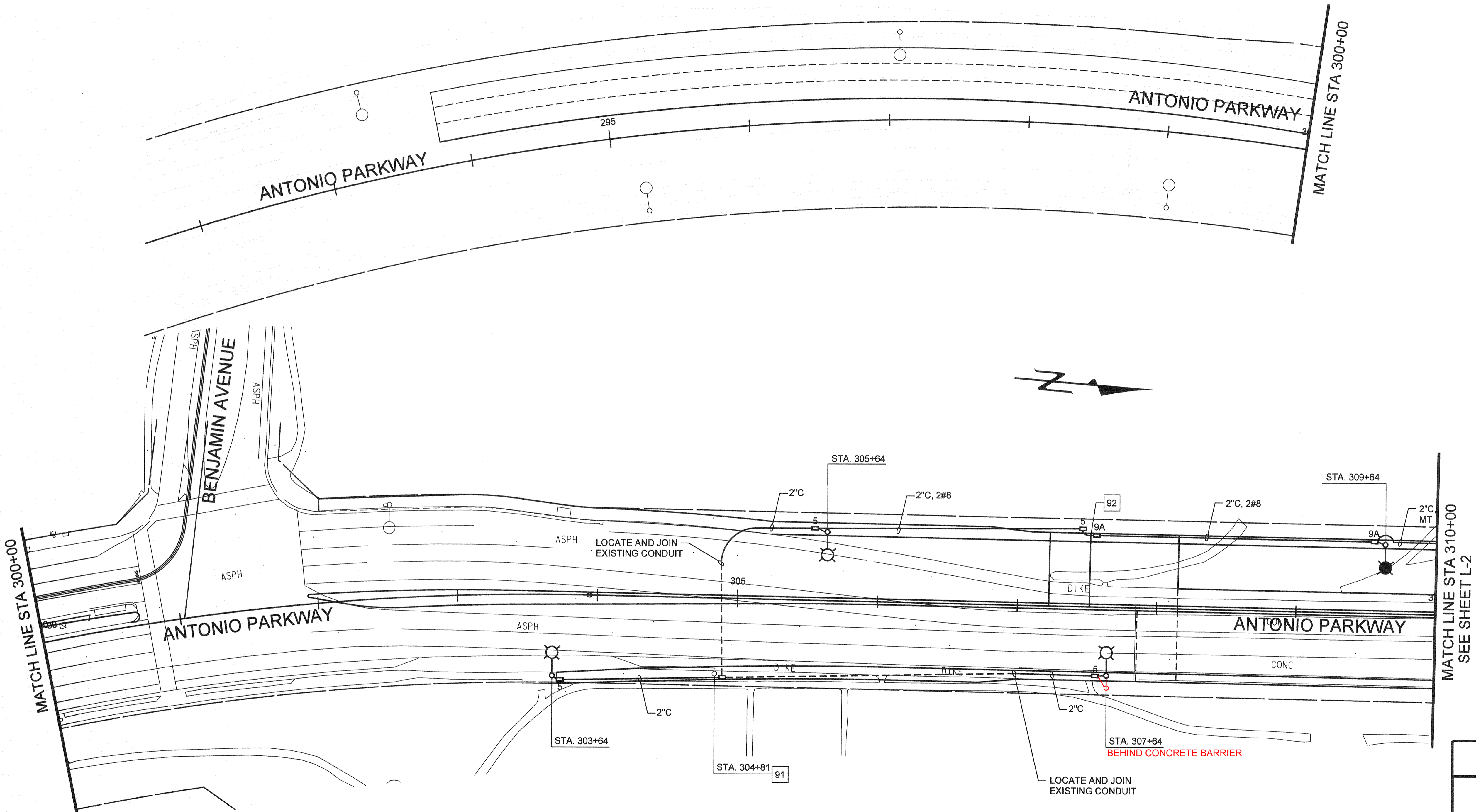
PLAN 1" = 40'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS		STRIPING AND SIGNING PLAN S-4	
DESIGNED <u>R. NIERE</u>		SHEET 39 OF 72	
DRAWN <u>N. BUNIA</u>		CHECKED <u>S. STROH</u>	
SCALE AS SHOWN		DATE 11/18/05	
DRAWING NO. xxx		DATE 12/30/09	

LEGEND

- PROPOSED BRIDGE MOUNTED STREET LIGHT
(TO BE INSTALLED BY CONTRACTOR)
- PROPOSED STREET LIGHT (TO BE INSTALLED BY
SDG&E)
- EXISTING STREET LIGHT

CONSTRUCTION NOTES

- 91 RELOCATE ELECTROLIER FROM STA. 304+81 TO
STA. 303+64. REMOVE FOUNDATION 2' BELOW
GRADE. (BY SDG&E)
- 92 EXPANSION/DEFLECTION FITTING IS REQUIRED AT
ALL JOINTS PER STD PLAN ES-9B DETAIL XY.



SEE SHEET 21S

AS BUILT

CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009

PLANS PREPARED BY:

FPL
FPL and Associates, Inc.

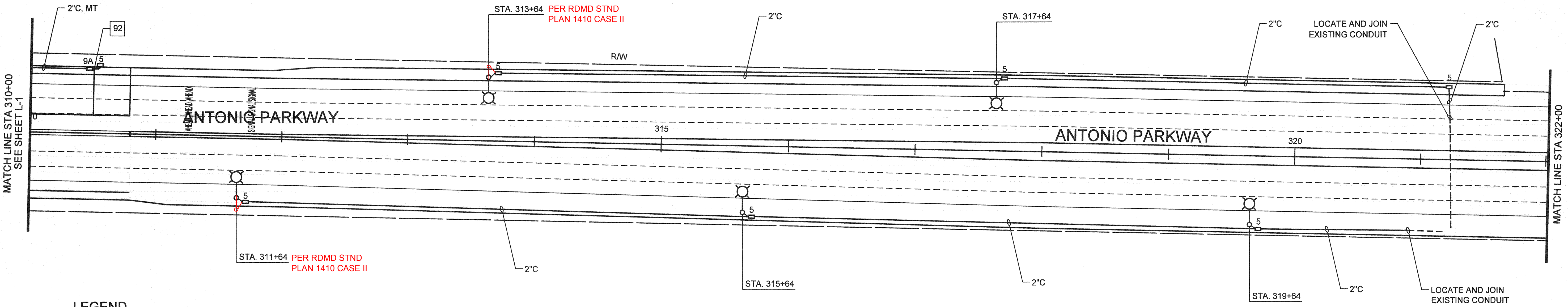
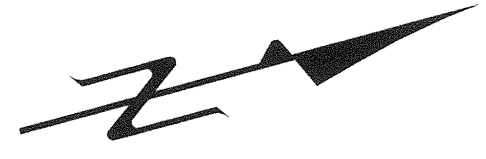
10 COPORATE PARK
SUITE 310
IRVINE, CALIFORNIA 92606

HNTB
200 E. SANDPOINTE AVENUE
SUITE 200
SANTA ANA, CALIFORNIA 92707

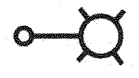
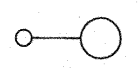
PLAN 1" = 40'		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
		ANTONIO PARKWAY WILDLIFE IMPROVEMENT PLANS	
		LIGHTING PLAN L-1	
DESIGNED: R. NERE		SHEET 40 OF 42	
DRAWN: N. BUNIA		CHECKED: S. STROH	
SCALE: AS SHOWN		DATE: xxx	
DRAWING NO.:		xxx	

PREPARED UNDER RESPONSIBLE CHARGE OF:

Professional Engineer Seal: Forging Ping Lee, No. C 40869, Exp. 3-31-2007, State of California, Civil.



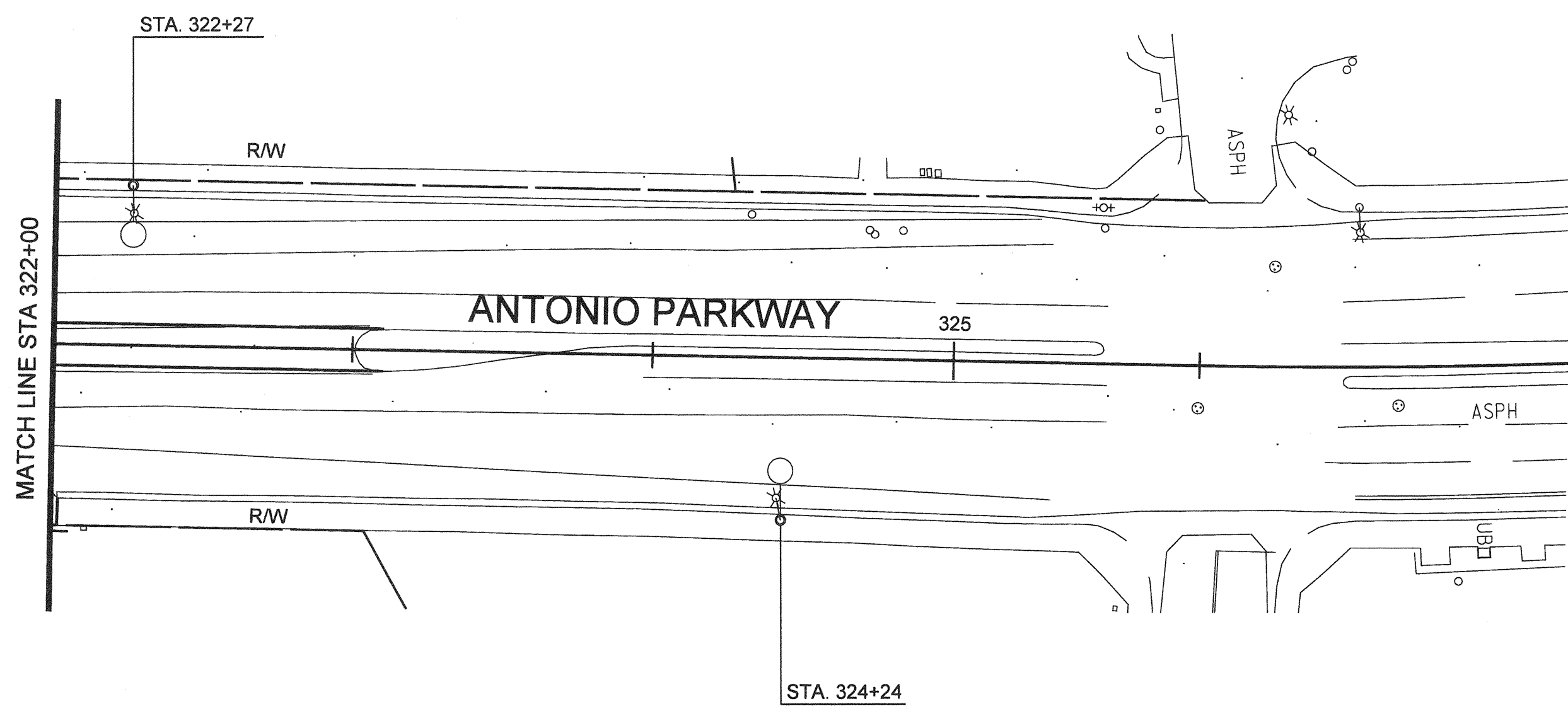
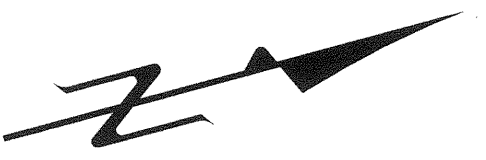
LEGEND

-  PROPOSED STREET LIGHT (TO BE INSTALLED BY SDG&E)
-  EXISTING STREET LIGHT

CONSTRUCTION NOTES

-  EXPANSION/DEFLECTION FITTING IS REQUIRED AT ALL JOINTS PER STD PLAN ES-9B DETAIL XY.

SEE SHEET 21S



AS BUILT

CORRECTION BY: MN

CONTRACT NO.: ER28121

DATE: 12/30/2009

PLANS PREPARED BY:

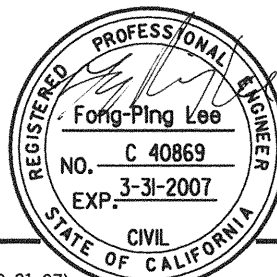
FPL

FPL and Associates, Inc.

10 COPORATE PARK
SUITE 310
IRVINE, CALIFORNIA 92606

HNTB

200 E. SANDPOINTE AVENUE
SUITE 200
SANTA ANA, CALIFORNIA 92707

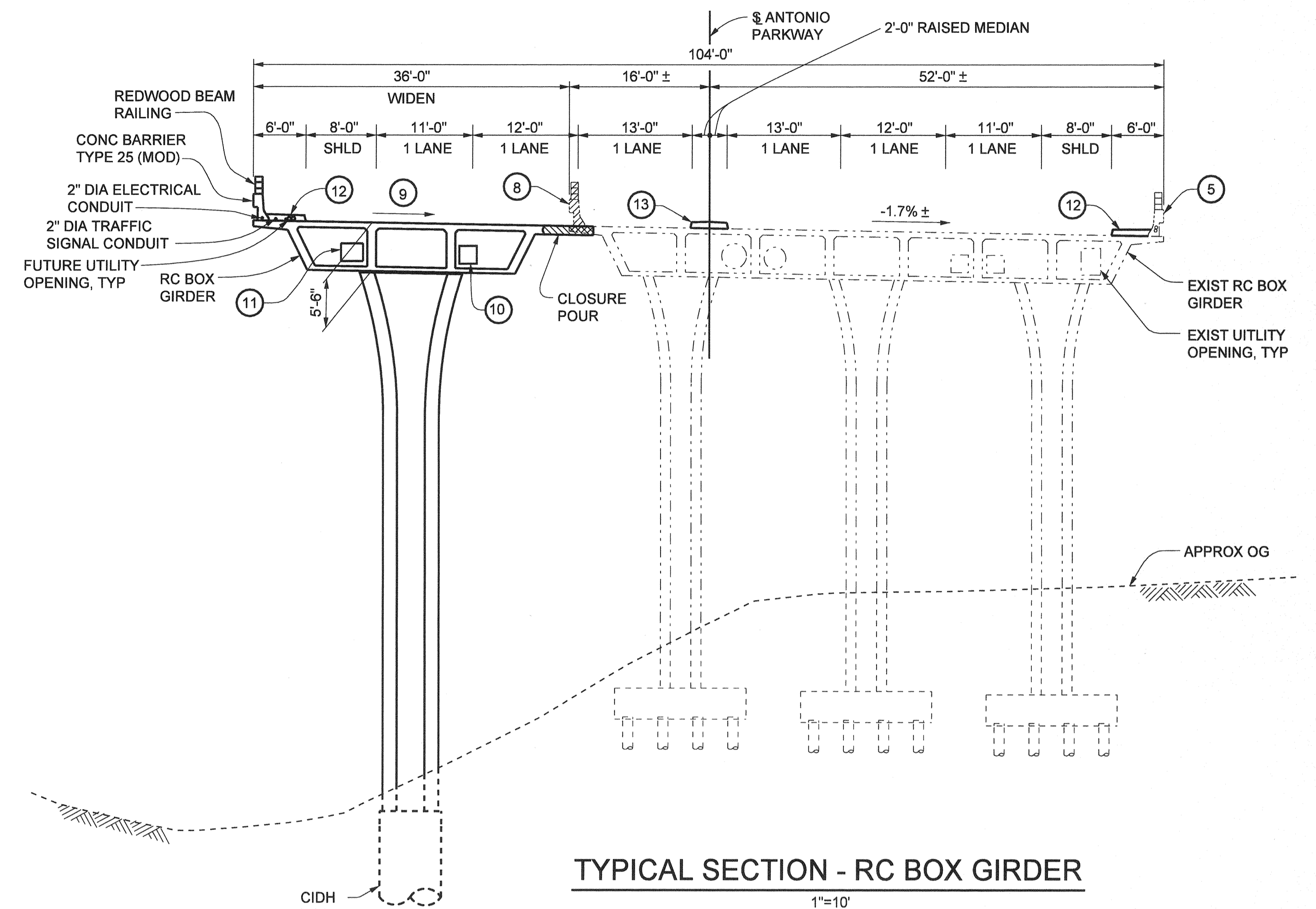
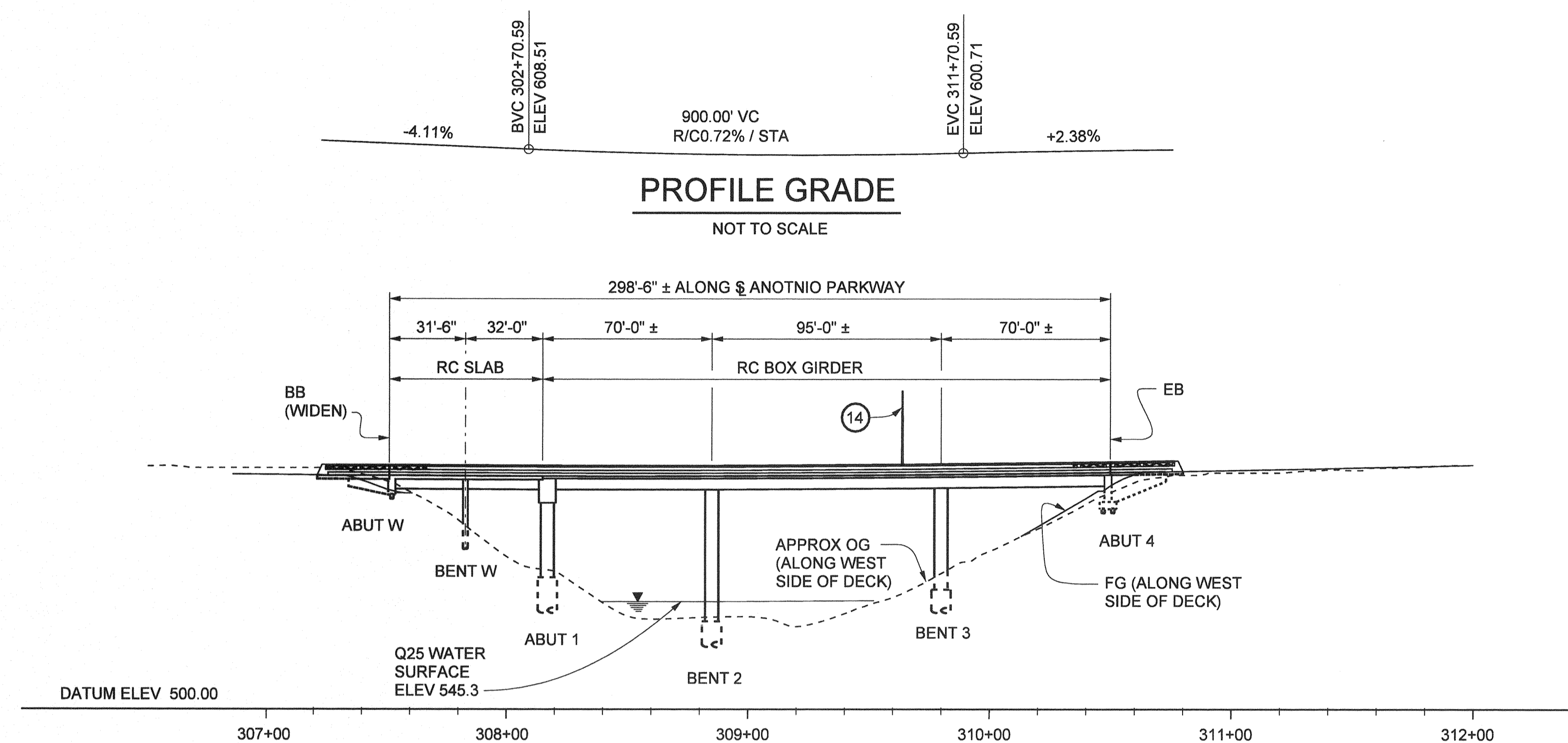
PLAN		
1" = 40'		
MARK	DATE	DESCRIPTION
REVISIONS		
PREPARED UNDER RESPONSIBLE CHARGE OF:		
		
Fong-Ping Lee P.E. 40869 (EXP. 03-31-07)		

ORANGE COUNTY
RESOURCES & DEVELOPMENT MANAGEMENT DEPT

ANTONIO PARKWAY
WILDLIFE
IMPROVEMENT PLANS

**LIGHTING
PLAN
L-2**

DESIGNED <u>R. NIERE</u>	SHEET
DRAWN <u>N. BLUNA</u>	41
CHECKED <u>S. STROH</u>	OF 72
SCALE AS SHOWN	DATE xxx
DRAWING NO. xxx	



LEGEND

- DENOTES EXIST STRUCTURE
- DENOTES NEW STRUCTURE
- DENOTES EXIST DECK DRAIN TYPE D-1 WITH REPLACED GRATE
- ▨ BRIDGE REMOVAL (PORTION)
- ▨ CLOSURE POUR TO MATCH EXIST GRADE AND CROSS SLOPE
- ① PAINT BRIDGE NO. 55C-0629
- ② PAINT "ANTONIO PARKWAY WILDLIFE UNDERCROSSING"
- ③ REMOVE EXIST METAL BEAM GUARD RAIL AND CONSTRUCT CONCRETE BARRIER TYPE 25 (MOD) / TYPE 25B (MOD) WITH REDWOOD BEAM RAILING
- ④ STRUCTURE APPROACH TYPE N (30D)
- ⑤ EXIST CONC BARRIER TYPE 25 (MOD) WITH REDWOOD BEAM RAILING
- ⑥ EXISTING DECK DRAIN TYPE D-1 WITH REPLACED GRATE
- ⑦ RAISED MEDIAN, SEE ROAD PLANS
- ⑧ REMOVE EXIST CONC BARRIER TYPE 25 (MOD) WITH REDWOOD BEAM RAILING AND DECK OVERHANG SALVAGE AND REUSE REDWOOD RAILING
- ⑨ MATCH EXIST CROSS SLOPE (-1.7% ±) AND GRADE
- ⑩ FUTURE UTILITY OPENING
- ⑪ UTILITY OPENING (SO CAL GAS)
- ⑫ SIDEWALK
- ⑬ RAISED MEDIAN, SEE "MISCELLANEOUS DETAILS" SHEET
- ⑭ PROPOSED STREET LIGHT (TO BE INSTALLED BY THE CONTRACTOR)
- ⑮ SLOTTED DRAIN, SEE ROAD PLANS
- ⑯ CONC BARRIER TYPE 25 (MOD) WITH REDWOOD BEAM RAILING, SEE "REDWOOD BEAM RAILING" AND "SIDEWALK DETAILS" SHEETS
- ⊙ CALTRANS STANDARD PLAN SHEET NUMBER
- DETAIL NUMBER

INDEX TO PLANS

- 42. GENERAL PLAN
- 43. DECK ELEVATIONS
- 44. FOUNDATION PLAN
- 45. ABUTMENT W LAYOUT
- 46. ABUTMENT W DETAILS
- 47. BENT W AND 24" Ø PILE DETAILS
- 48. ABUTMENT 1 LAYOUT
- 49. ABUTMENT 1 DETAILS NO. 1
- 50. ABUTMENT 1 DETAILS NO. 2
- 51. ABUTMENT 4 LAYOUT
- 52. ABUTMENT 4 DETAILS
- 53. BENTS 2 & 3 DETAILS NO. 1
- 54. BENTS 2 & 3 DETAILS NO. 2
- 55. BENTS 2 & 3 DETAILS NO. 3
- 56. SLAB REINFORCEMENT
- 57. SLAB REINFORCEMENT DETAILS
- 58. TYPICAL SECTION
- 59. GIRDER LAYOUT
- 60. GIRDER REINFORCEMENT
- 61. DECK DRAIN LAYOUT
- 62. DECK DRAIN DETAILS
- 63. CONCRETE BARRIER DETAILS
- 64. REDWOOD BEAM RAILING
- 65. SIDEWALK DETAILS
- 66. STRUCTURE APPROACH TYPE N (30D)
- 67. STRUCTURE APPROACH DRAINAGE DETAILS
- 68. FACADE GIRDER DETAILS
- 69. LIMIT FOR STRUCTURAL EXCAVATION AND BACKFILL
- 70. MISCELLANEOUS DETAILS
- 71. ISOLATION CASING DETAILS
- 72. LOG OF TEST BORINGS

1/2 0 2
3 Inches on original drawing

NOTES:

1. FOR GENERAL NOTES, CALTRANS STANDARD PLANS LIST, SEE "DECK ELEVATIONS" SHEET. FOR PILE DATA, SEE "FOUNDATION PLAN" SHEET.
2. FOR DECK DRAIN INFORMATION, SEE "DECK DRAIN LAYOUT" SHEET.
3. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
4. FOR CONSTRUCTION STAGE, SEE "STAGE CONSTRUCTION TRAFFIC CONTROL PLAN SECTIONS SC-1" SHEET.

NO AS BUILT CHANGES

AS BUILT

CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009

PLANS PREPARED BY:
HNTB
HNTB Corporation
200 E. SANDPOINT AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT		ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)		GENERAL PLAN	
DESIGNED: J. WANG		CHECKED: F. JIANG		SHEET 42 OF 72	
DRAWN: N. MCRAE		DATE: 9/19/08		DRAWING NO.	
SCALE: AS SHOWN		DATE: 9/19/08		DRAWING NO.	

PREPARED UNDER RESPONSIBLE CHARGE OF:
Yung-Nien Wang
NO. C 43559
EXP. 6-30-08
CIVIL
STATE OF CALIFORNIA
10/31/06
Yung-Nien Wang
PCE: C 43559 (EXP. 6-30-08)

Date Plotted:

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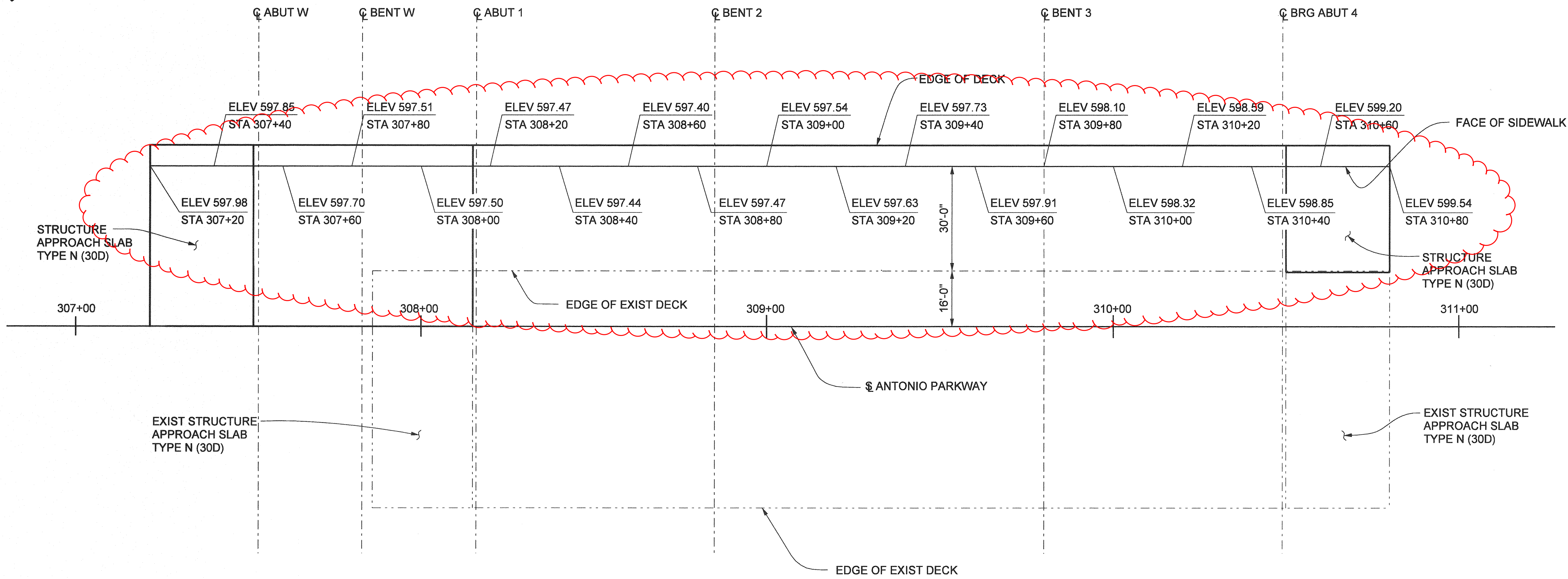
Border sheet last modified 09-Nov-1999

CALTRANS STANDARD PLANS (DUAL UNITS)
DATED JULY 2002

A10A	ABBREVIATIONS
A10B	SYMBOLS
A62C	LIMITS OF PAVEMENT FOR EXCAVATION AND BACKFILL - BRIDGE
B0-1	BRIDGE DETAILS
B0-3	BRIDGE DETAILS
B0-5	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B2-3	16" CAST-IN-DRILLED-HOLE CONCRETE PILE
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
B7-1	BOX GIRDER DETAILS
B7-6	DECK DRAINS - TYPE D-1 AND D-2
B7-10	UTILITY OPENING - BOX GIRDER
B11-53	CONCRETE BARRIER TYPE 25
B14-5	WATER SUPPLY LINE (BRIDGE)
	(PIPE SIZES LESS THAN NPS 4)
ES-6A	LIGHTING STANDARDS TYPES 15, 21 AND 22
ES-6B	LIGHTING STANDARDS TYPES 15 AND 21
ES-9E	BARRIER RAIL MOUNTED DETAILS
	SIGNAL, LIGHTING AND ELECTRICAL SYSTEMS
	ELECTRICAL DETAILS
	STRUCTURE INSTALLATION

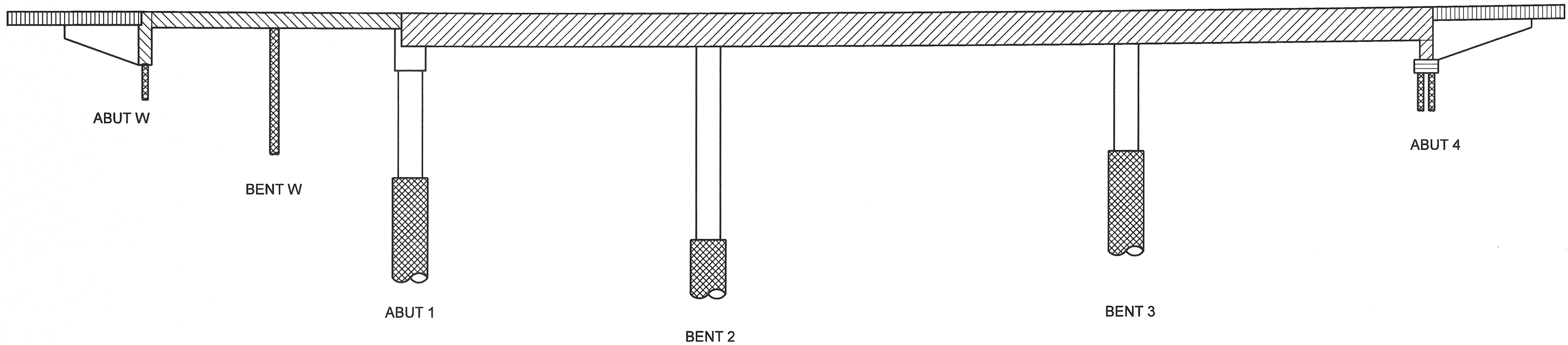
GENERAL NOTES
LOAD FACTOR DESIGN

DESIGN:	CALTRANS BRIDGE DESIGN SPECIFICATIONS APRIL 2000 (LFD) (1996 AASHTO WITH INTERIMS AND REVISIONS BY CALTRANS)
SEISMIC DESIGN:	CALTRANS SEISMIC DESIGN CRITERIA (SDC) VERSION 1.2 DECEMBER 2001
DEAD LOAD:	INCLUDES 35 psf FOR FUTURE WEARING SURFACE
LIVE LOADING:	HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
SEISMIC LOADING:	SDC ARS CURVE FOR SOIL PROFILE C (M = 7.25 ± .25) (PEAK ROCK ACCELERATION = 0.3g)
REINFORCED CONCRETE:	$f_y = 60,000$ psi $f_c = 3,600$ psi, UNLESS OTHERWISE NOTED 3600 TRANSVERSE DECK SLAB (WORKING STRESS DESIGN) $f_s = 20,000$ psi $f_c = 1,200$ psi $n = 10$



SEE BRIDGE 43S FOR DECK
ELEVATIONS

PLAN
1" = 20'



CONCRETE STRENGTH AND TYPE LIMITS
NO SCALE

LEGEND

	STRUCTURAL CONCRETE - BRIDGE (4500 psi @ 28 DAYS)
	STRUCTURAL CONCRETE - BRIDGE (4000 psi @ 28 DAYS)
	STRUCTURAL CONCRETE - BRIDGE
	STRUCTURAL CONCRETE - BRIDGE FOOTING
	STRUCTURAL CONCRETE - APPROACH SLAB TYPE N (30D)
	16", 24" OR 7'-0" CIDH CONCRETE PILE (4000 psi @ 28 DAYS)

NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
2. DECK ELEVATIONS GIVEN ARE ON THE TOP OF FINISHED SURFACE AT THE FACE OF SIDEWALK FOR THE WIDENING TO MATCH EXISTING GRADE AND CROSS SLOPE.

AS BUILT

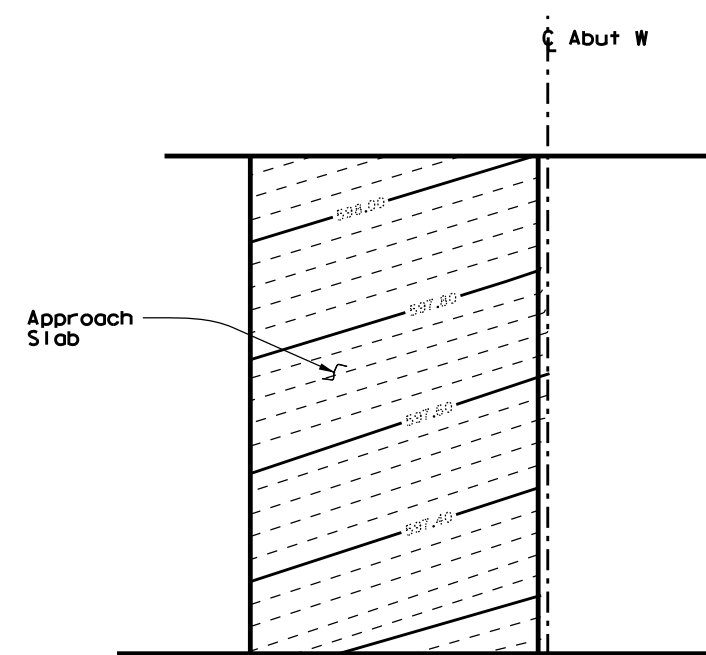
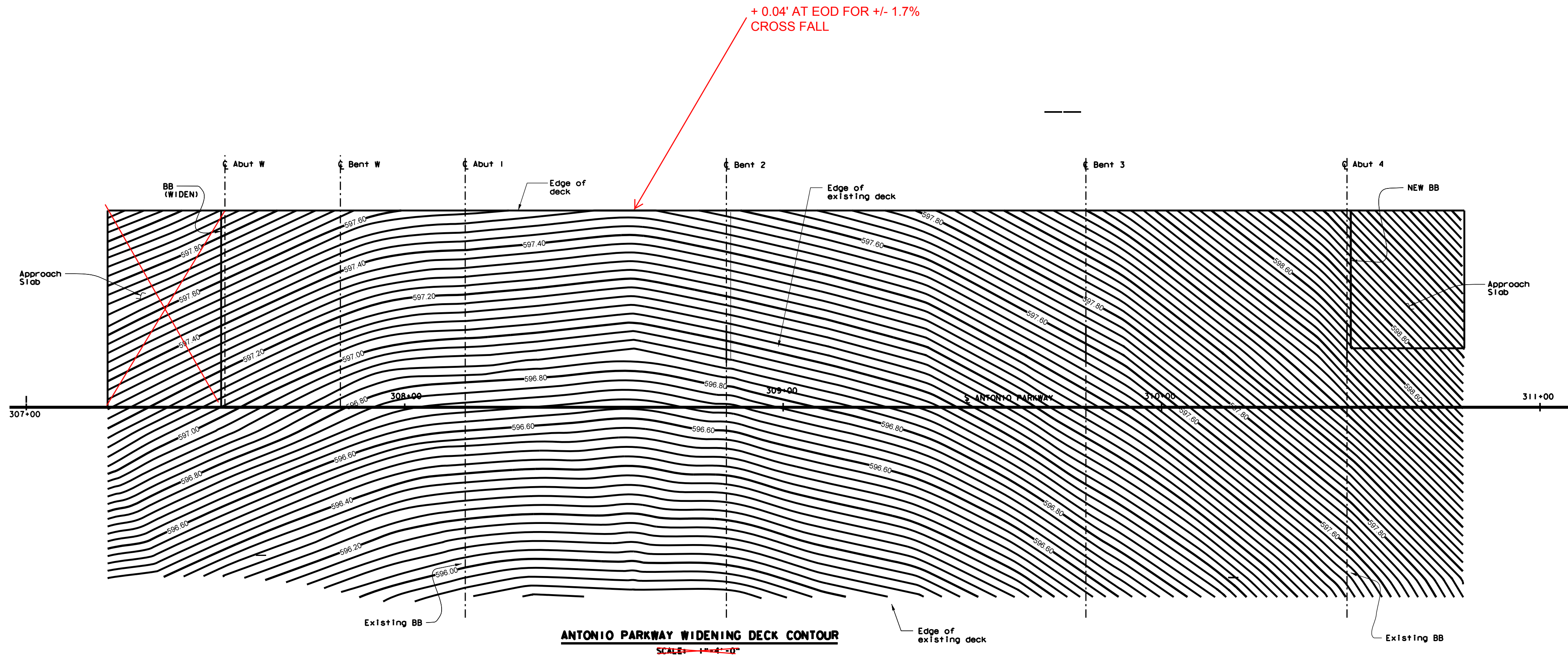
CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009

PLANS PREPARED BY:
HNTB
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)	
DECK ELEVATIONS	
DESIGNED: J. ZHANG	SHEET
DRAWN: J. ZHANG	43
CHECKED: F. JIANG	OF 72
SCALE: AS SHOWN	DATE: 9/19/08
DRAWING NO.	

Date Plotted:

File Name: J:\34092\CADD\Struct\sheet\antoniopkwy-S-02.dgn



APPR. SLAB CONTOURS

AS BUILT

CORRECTION BY: MN

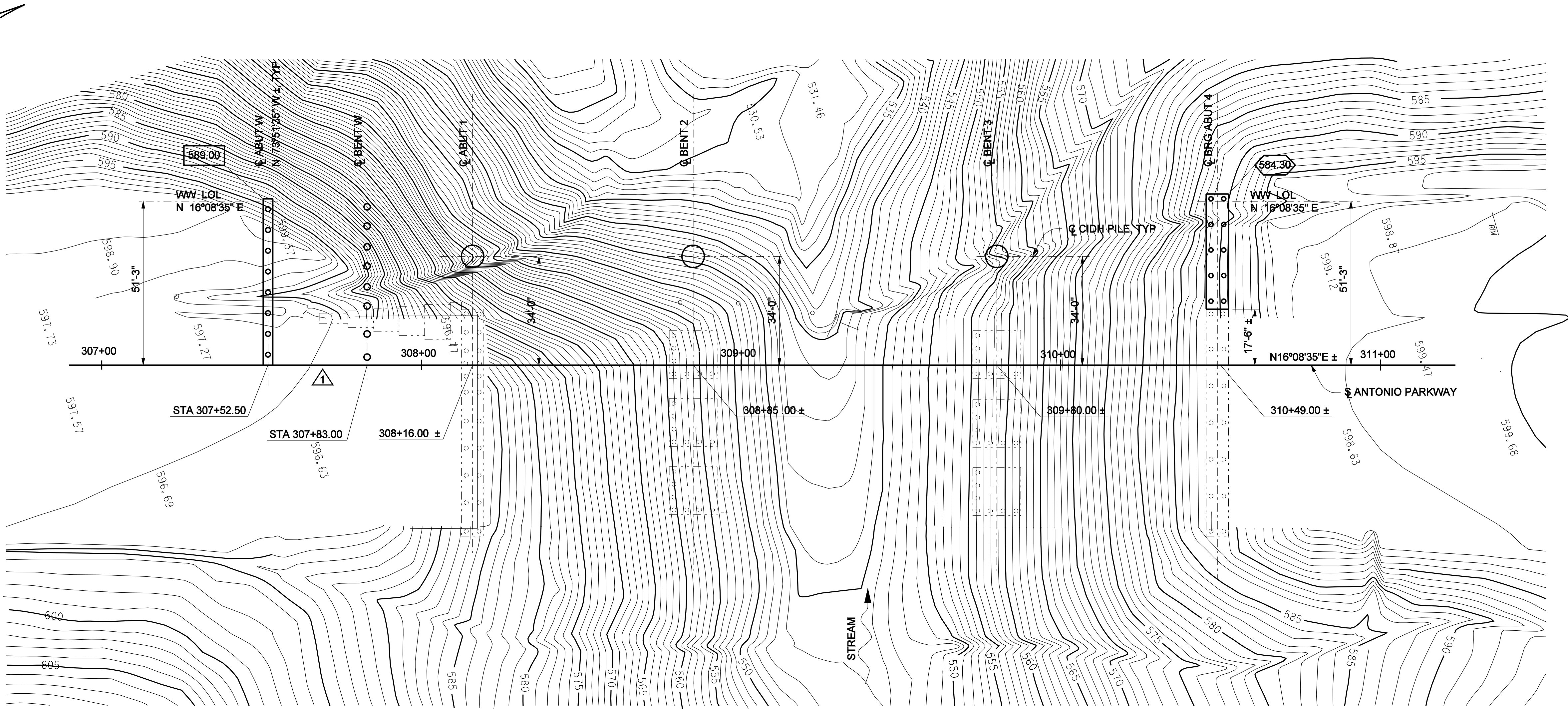
CONTRACT NO.: ER28121

DATE: 12/30/2009

PLAN 1"=		ORANGE COUNTY PUBLIC FACILITIES AND RESOURCES DEPARTMENT	
		ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)	
		BRIDGE CONTOURS	
MARK	DATE	DESCRIPTION	
REVISIONS			
PREPARED UNDER RESPONSIBLE CHARGE OF:			
DESIGNED	DRAWN		CHECKED
SCALE AS SHOWN	DATE	DRAWING NO.	
SHEET 43S			OF 72

Date Plotted:

File Name:



FOUNDATION PLAN

1"= 20'

BENCH MARK

3BB-36-88 ELEVATION 478.775' (1998) AT THE SOUTHWEST CORNER OF THE INTERSECTION OF CROWN VALLEY PARKWAY AND MARGUERITE PARKWAY; 48 FT WESTERLY OF THE CENTERLINE OF MARGUERITE PARKWAY; 82 FT SOUTHERLY OF THE CENTERLINE OF CROWN VALLEY PARKWAY SET AT THE TOP OF THE NORTHWEST CORNER OF A 3 FT X 3 FT CONCRETE BASE FOR THE TRAFFIC SIGNAL LIGHT POLE.

HYDROLOGIC SUMMARY

DRAINAGE AREA: 99.32 ACRES

FREQUENCY (YEARS)

DISCHARGE (CUBIC FEET PER SECOND)

WATER SURFACE (ELEVATION AT BRIDGE)

DESIGN FLOOD	BASE FLOOD	OVERTOPPING FLOOD
25	25	>>500
235.99	235.99	N/A
545.3	545.3	N/A

LEGEND

- INDICATES BOTTOM OF ABUTMENT ELEVATION
- INDICATES BOTTOM OF FOOTING ELEVATION
- DENOTES EXISTING STRUCTURE
- DENOTES NEW SUBSTRUCTURE
- DENOTES EXIST PILES (ALL PILES NOT SHOWN FOR CLARITY)
- DENOTES NEW PILES

NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
2. ELEVATIONS SHOWN ARE BASED UPON NGVD29/1995 O.C.S. ADJUSTMENT VERTICAL DATUM.
3. BASIS OF BEARINGS IS CALIFORNIA STATE PLANE COORDINATE SYSTEM (NAD83).
4. CONTOURS SHOWN ARE ORIGINAL GROUND.
5. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXIST UTILITIES BEFORE EXCAVATION AND PILE DRILLING BEGINS.

CONCRETE PILE DATA

LOCATION	TYPE	DESIGN LOADING SERVICE (KIPS)	PILE CUT-OFF ELEV (FT)	DESIGN TIP ELEV * (FT)	SPECIFIED TIP ELEV (FT)
ABUT W	16" Ø CIDH	140	—	544.0	544.0
BENT W (PILE 1)	24" Ø CIDH	140	—	552.5	552.5
BENT W (PILE 2)	24" Ø CIDH	140	—	552.5	552.5
BENT W (PILE 3)	24" Ø CIDH	140	—	552.5	552.5
BENT W (PILE 4)	24" Ø CIDH	140	—	550.5	550.5
BENT W (PILE 5)	24" Ø CIDH	140	—	550.5	550.5
BENT W (PILE 6)	24" Ø CIDH	140	—	548.5	548.5
BENT W (PILE 7)	24" Ø CIDH	140	—	543.5	543.5
BENT W (PILE 8)	24" Ø CIDH	140	—	539.0	539.0
ABUT 1	7'-0" Ø CIDH	1090	554.0	499.0	499.0
BENT 2	7'-0" Ø CIDH	1630	536.0	469.0	469.0
BENT 3	7'-0" Ø CIDH	1580	549.0	483.0	483.0
ABUT 4	16" Ø CIDH	140	—	539.0	539.0

NO AS BUILT CHANGES

AS BUILT

CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009

1 1/2 0 1 2
3 inches on original drawing

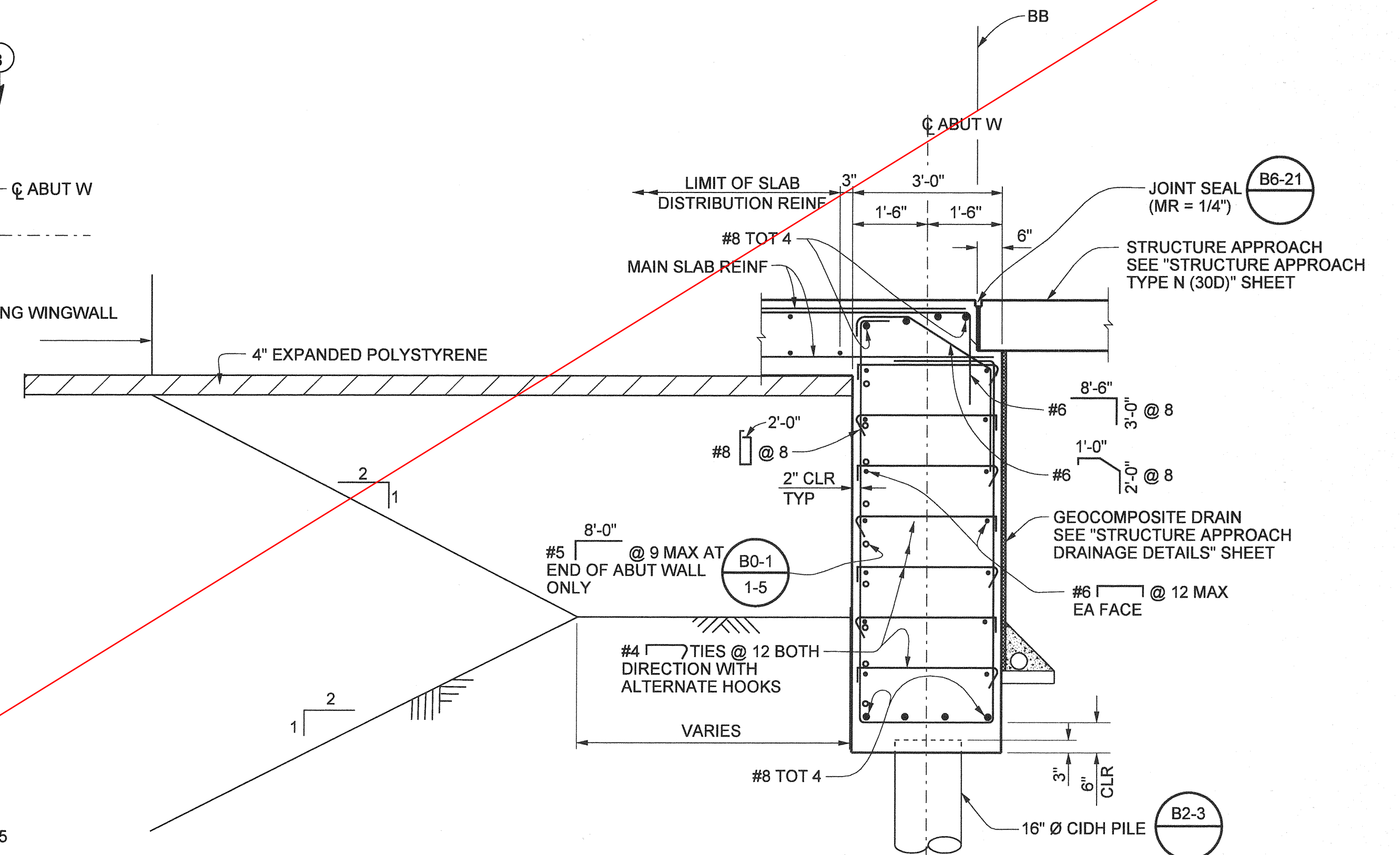
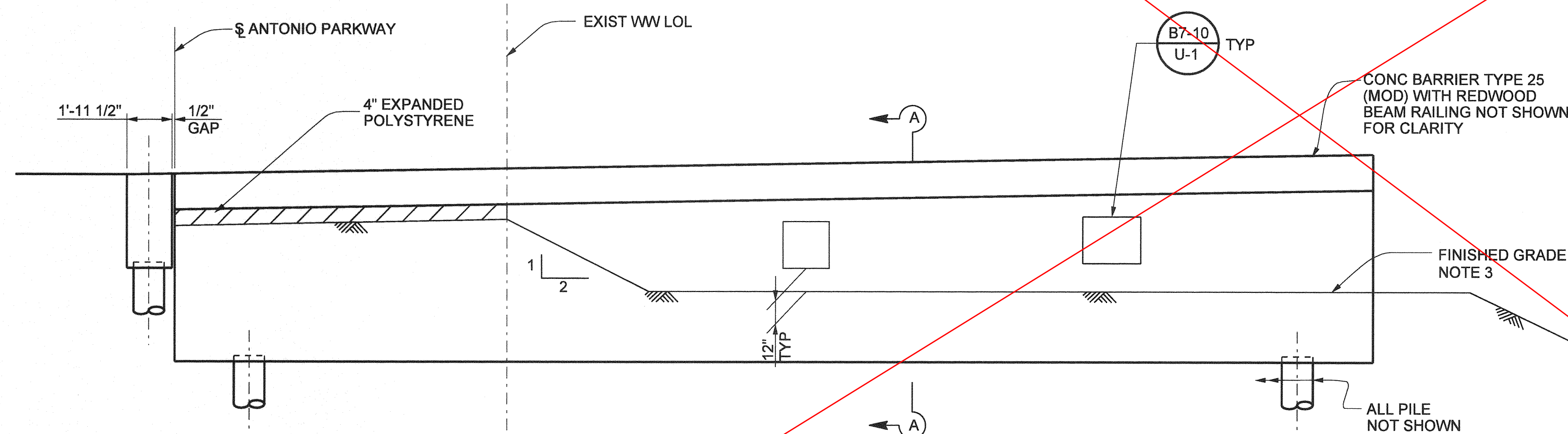
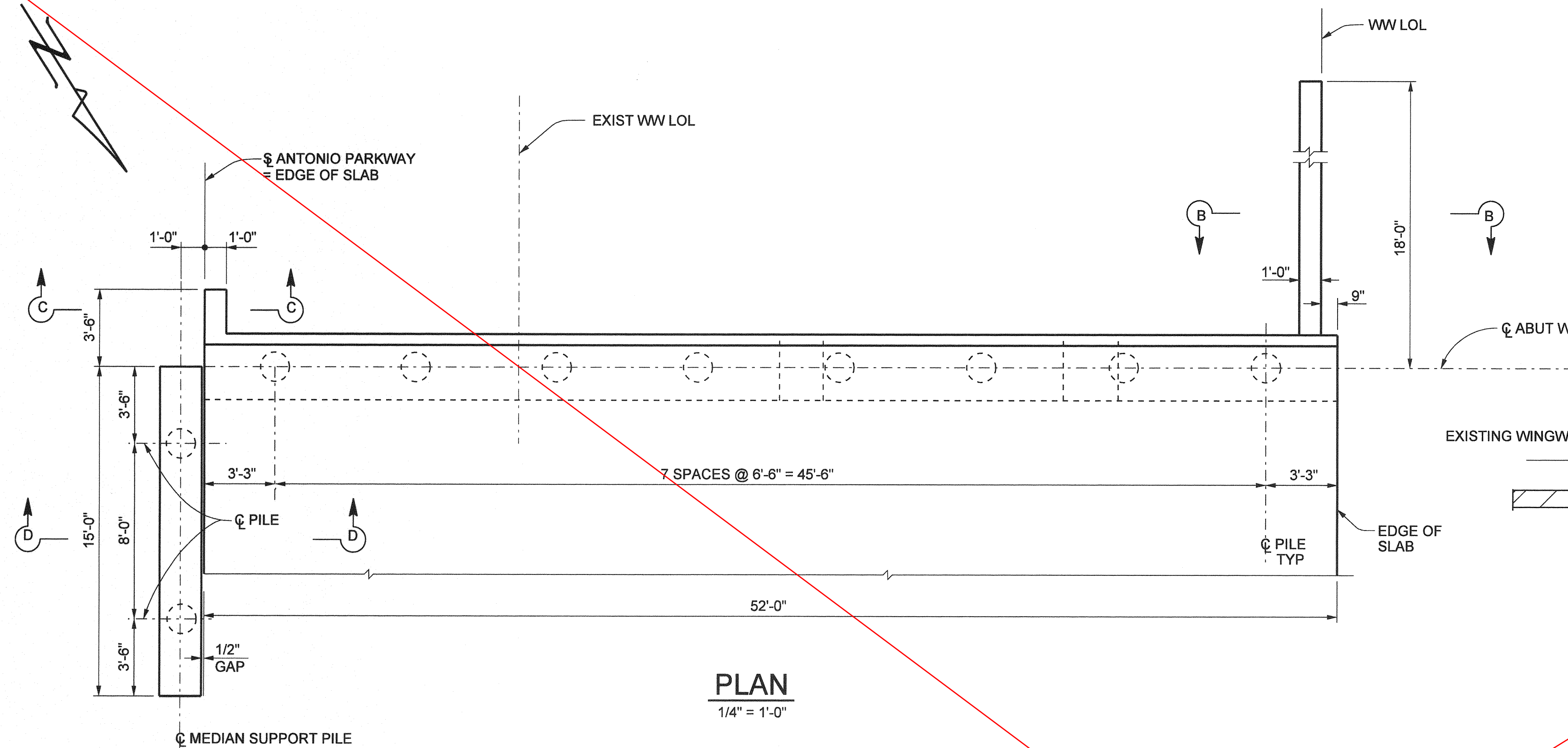
		1/07		DELETED MEDIAN SUPPORT WALL	
		MARK	DATE	DESCRIPTION	
REVISIONS					
PREPARED UNDER RESPONSIBLE CHARGE OF:					
Yung-Nien Wang RCE C 43559 (EXP. 6-30-06)					
DATE					
ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT				ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)	
FOUNDATION PLAN					
DESIGNED J. WANG				SHEET	
DRAWN H. MORALES		CHECKED F. JEANG		44	
SCALE AS SHOWN		DATE 9/19/06		DRAWING NO.	
				OF 72	

PLANS PREPARED BY:
HNTB
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL. (714) 460-1600 FAX (714) 460-1610

Date Plotted:

File Name: J:\34092\CADD\Strc\sheet\antoniopkwy-S-03.dgn

Border sheet last modified 09-Nov-1999



AS BUILT

CORRECTION BY: MN
 CONTRACT NO.: ER28121
 DATE: 12/30/2009

NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
2. FOR UTILITY SIZE AND LOCATION, SEE "TYPICAL SECTION" SHEET.
3. FOR FINISHED GRADE INFORMATION, SEE "LIMIT FOR STRUCTURAL EXCAVATION AND BACKFILL" SHEET AND ROAD PLANS.
4. FOR SECTIONS B-B, C-C, & D-D, SEE "ABUTMENT W DETAILS" SHEET.

3 Inches on original drawing

THIS SHEET WAS REPLACED BY SHEET 45R1 OF 72.

PLANS PREPARED BY:
HNTB
 HNTB Corporation
 200 E. SANDPOINTE AVENUE, SUITE 200
 SANTA ANA, CALIFORNIA 92707
 TEL (714) 460-1600 FAX (714) 460-1610

ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)	
ABUTMENT W LAYOUT	
DESIGNED: <u>J. WANG</u>	SHEET
DRAWN: <u>J. WANG</u>	45
CHECKED: <u>F. JEANG</u>	OF 72
SCALE: <u>AS SHOWN</u>	DATE: <u>9/19/06</u>
DRAWING NO.	

REVISIONS

PREPARED UNDER RESPONSIBLE CHARGE OF:

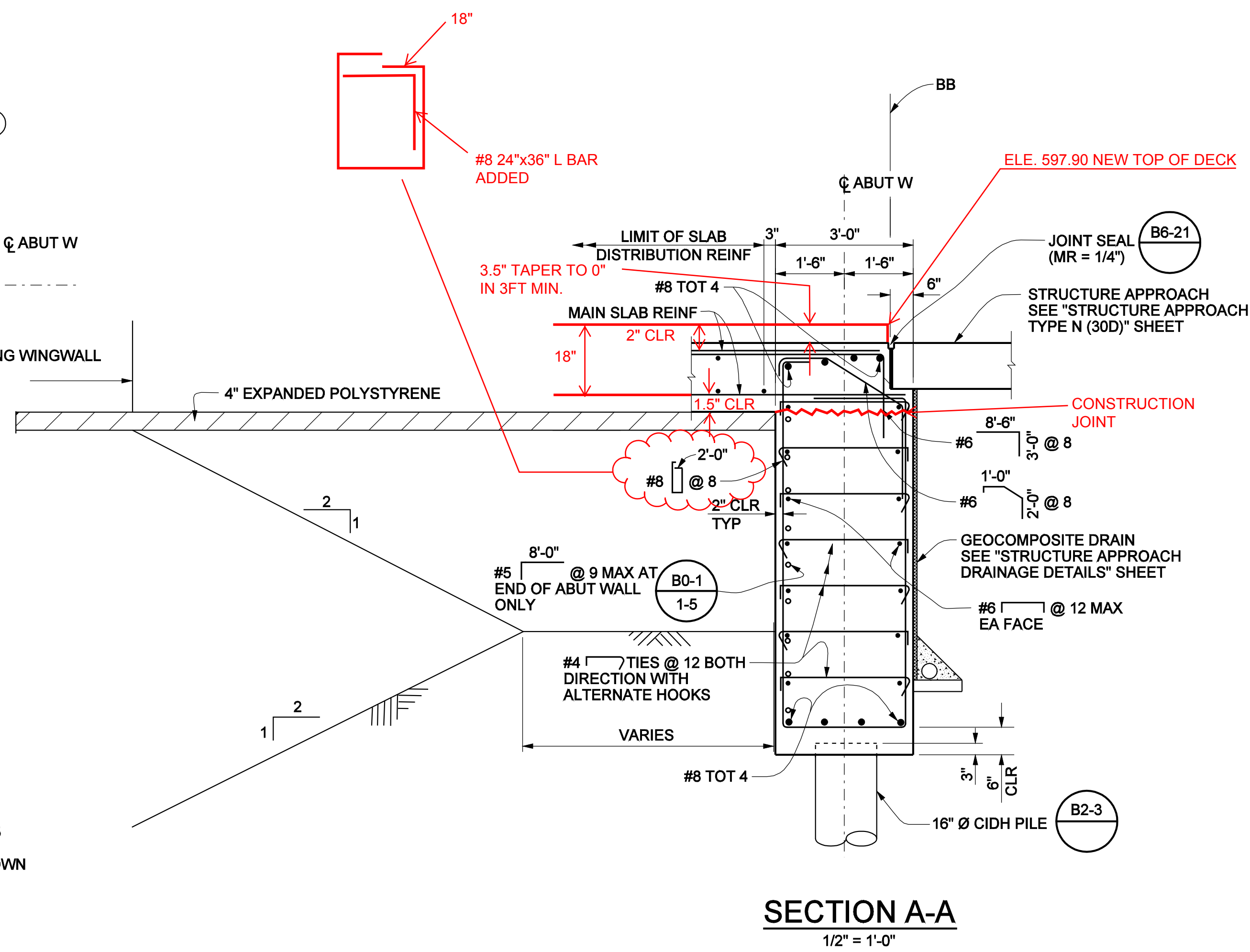
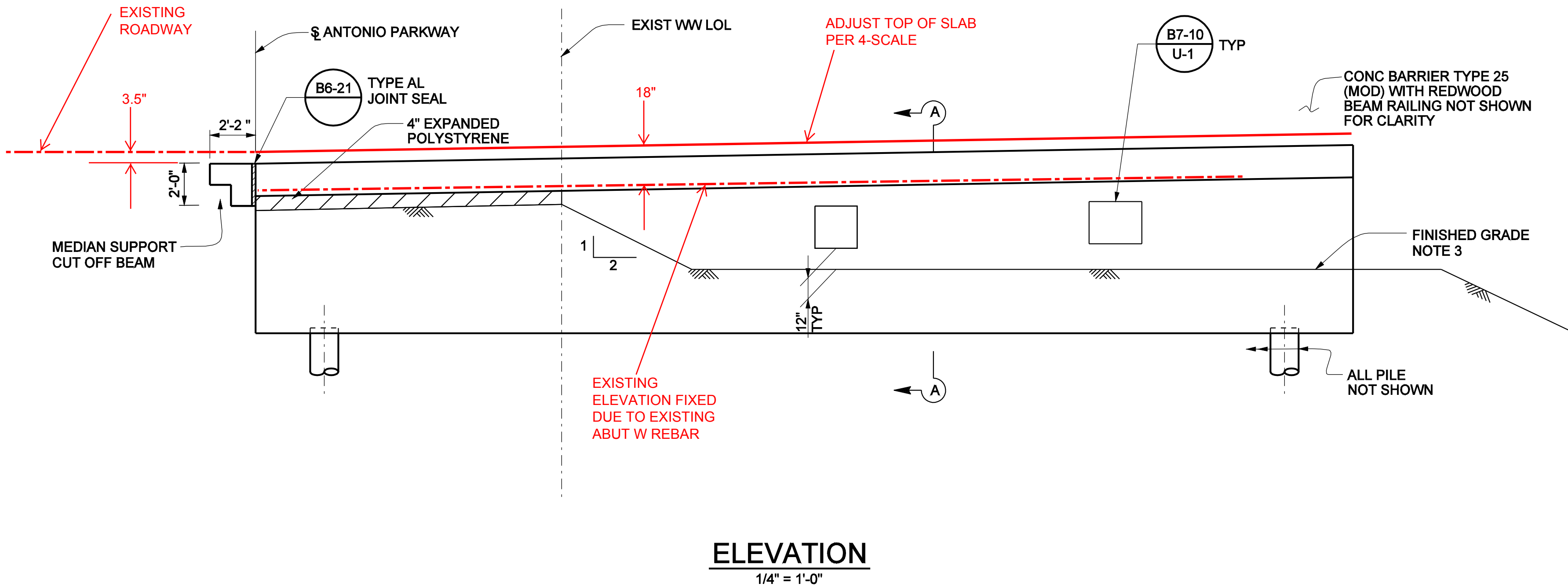
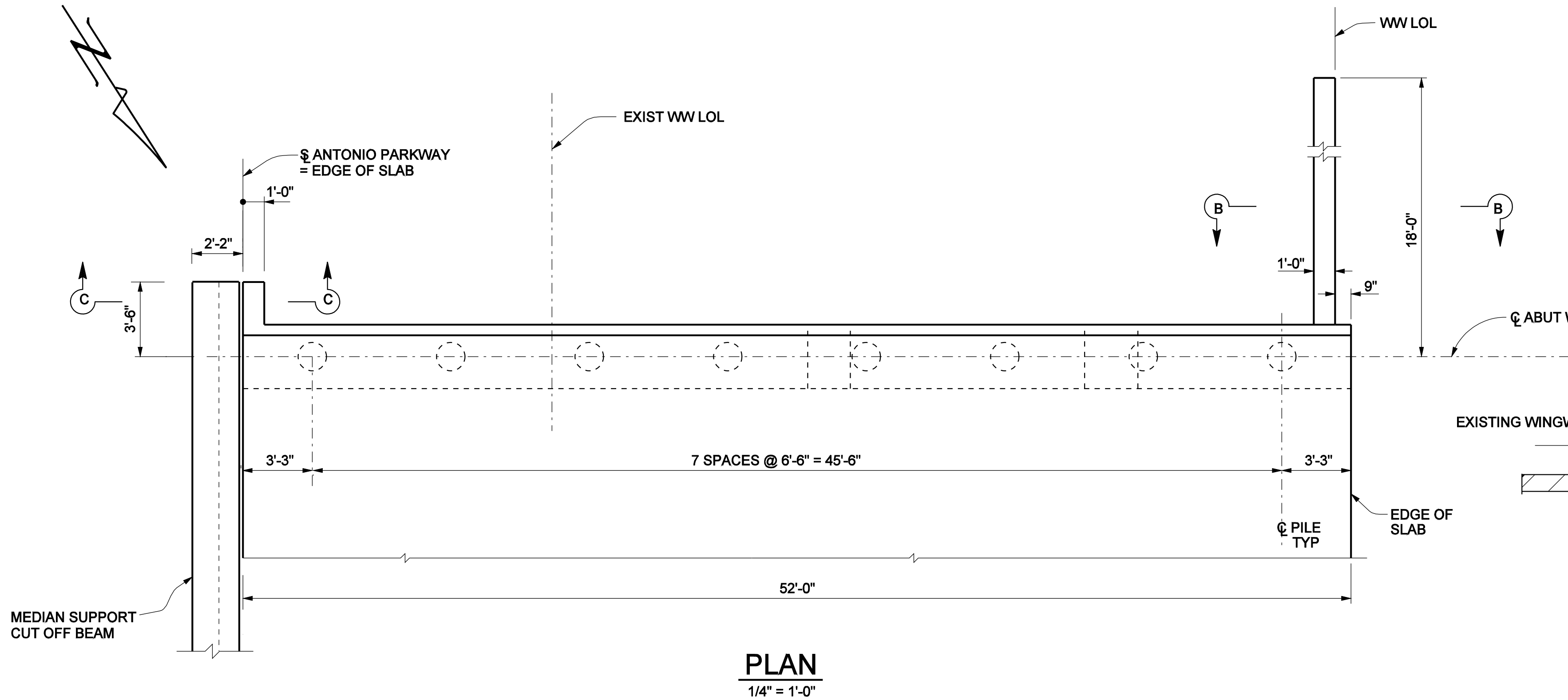
Yung-Nien Wang
 No. C 43559
 EXP. 6-30-08
 CIVIL
 STATE OF CALIFORNIA

10/9/16

Yung-Nien Wang
 No. C 43559 (EXP. 6-30-06)

Date Plotted:

File Name: J:\34092\CADD\Structs\Antoniopkwy-S-05.dgn



THIS SHEET REPLACES SHEET NO.45
OF 72 OF PLAN APPROVED OCTOBER 2006

- NOTES:
1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
 2. FOR UTILITY SIZE AND LOCATION, SEE "TYPICAL SECTION" SHEET.
 3. FOR FINISHED GRADE INFORMATION, SEE "LIMIT FOR STRUCTURAL EXCAVATION AND BACKFILL" SHEET AND ROAD PLANS.
 4. FOR SECTIONS B-B, C-C, & D-D, SEE "ABUTMENT W DETAILS" SHEET.

1 1/2 0 2
3 inches on original drawing

AS BUILT

CORRECTION BY: MN

CONTRACT NO.: ER28121

DATE: 12/30/2009

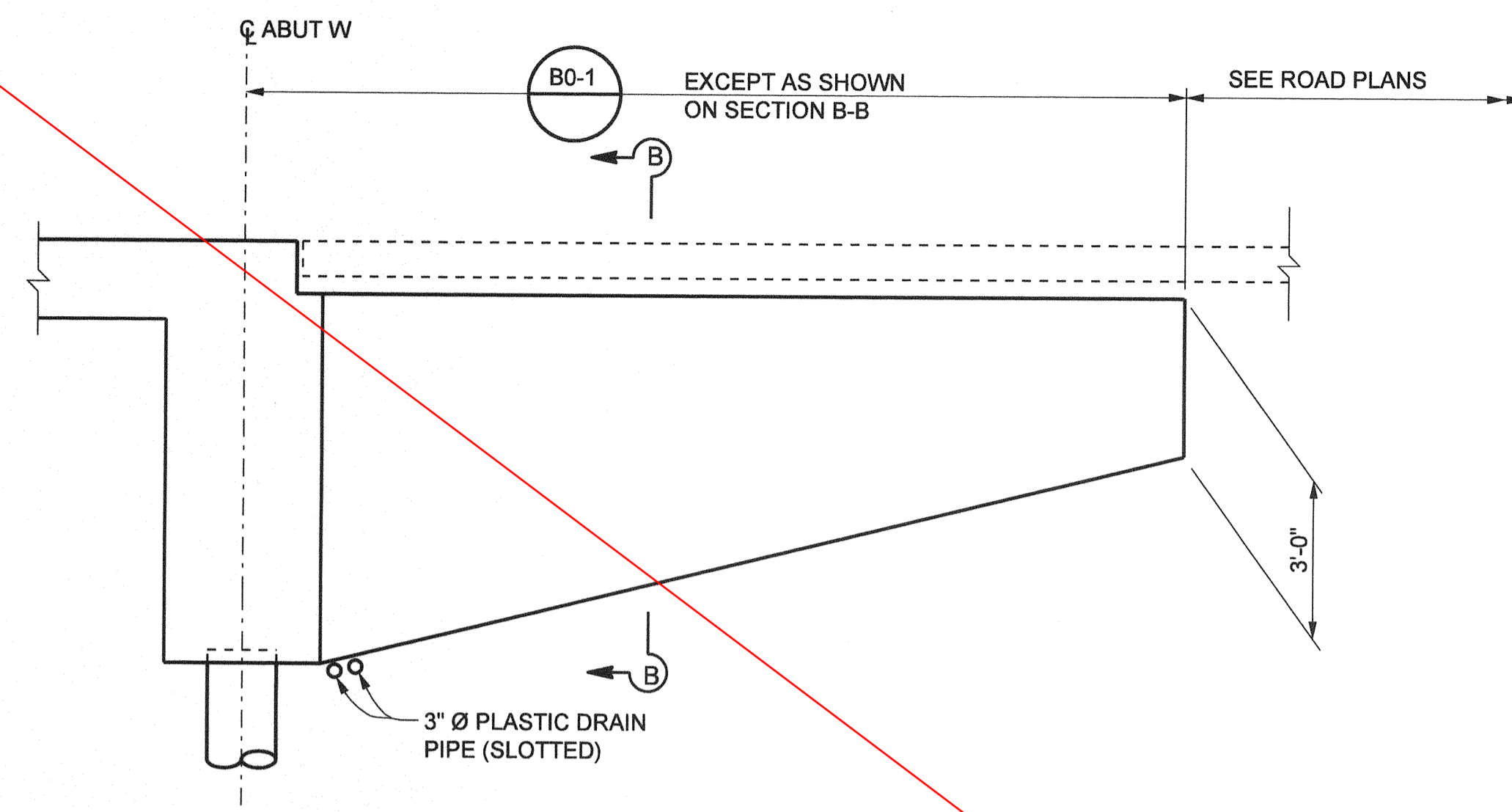
PLANS PREPARED BY: HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

HNTB

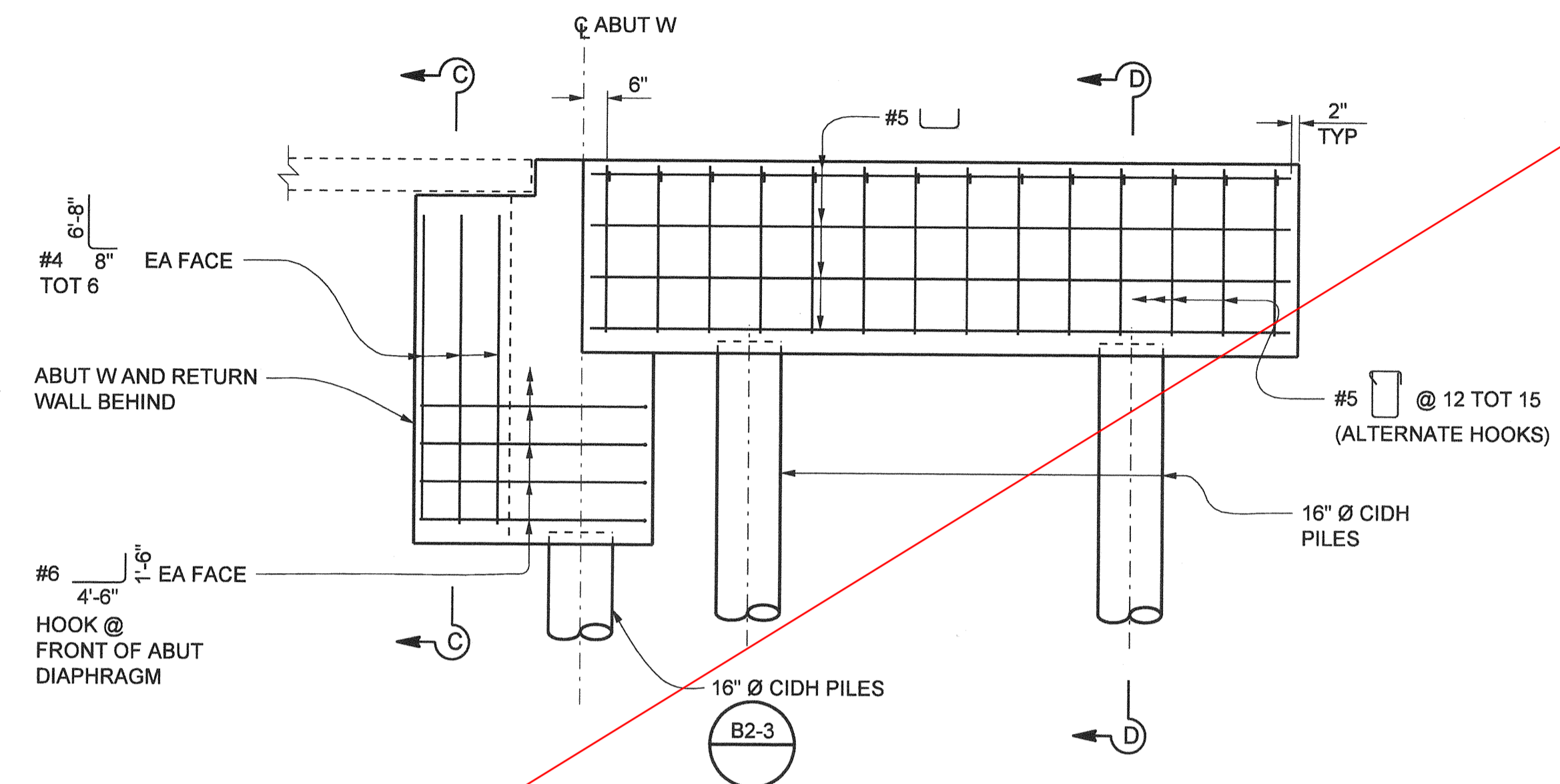
ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT		ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)	
ABUTMENT W LAYOUT		SHEET 45R1 OF 72	
DESIGNED J. WANG	CHECKED F. JEANG	DATE 9/19/08	DRAWING NO.
SCALE AS SHOWN	DATE 9/19/08	DRAWING NO.	

MARK	DATE	DESCRIPTION
1/07		DELETED MEDIAN SUPPORT WALL . EXTENDED CUT OFF BEAM

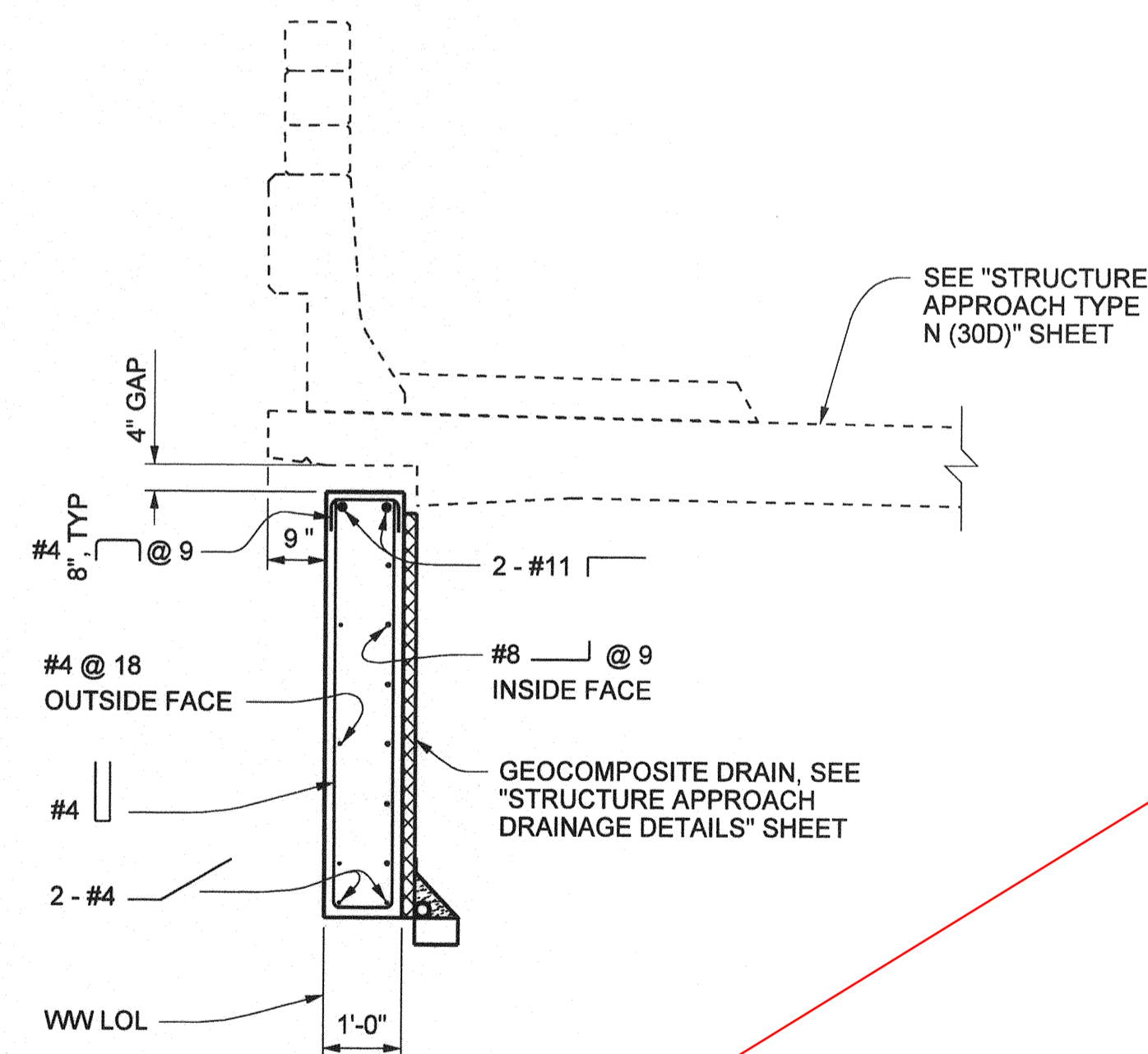
PREPARED UNDER RESPONSIBLE CHARGE OF:	PROFESSIONAL ENGINEER
Yung-Nien Wang	REGISTERED
NO. C 43559	STATE OF CALIFORNIA
EXP. 6-30-08	CIVIL
Yung-Nien Wang	DATE
RCE C 43559 (EXP. 6-30-06)	



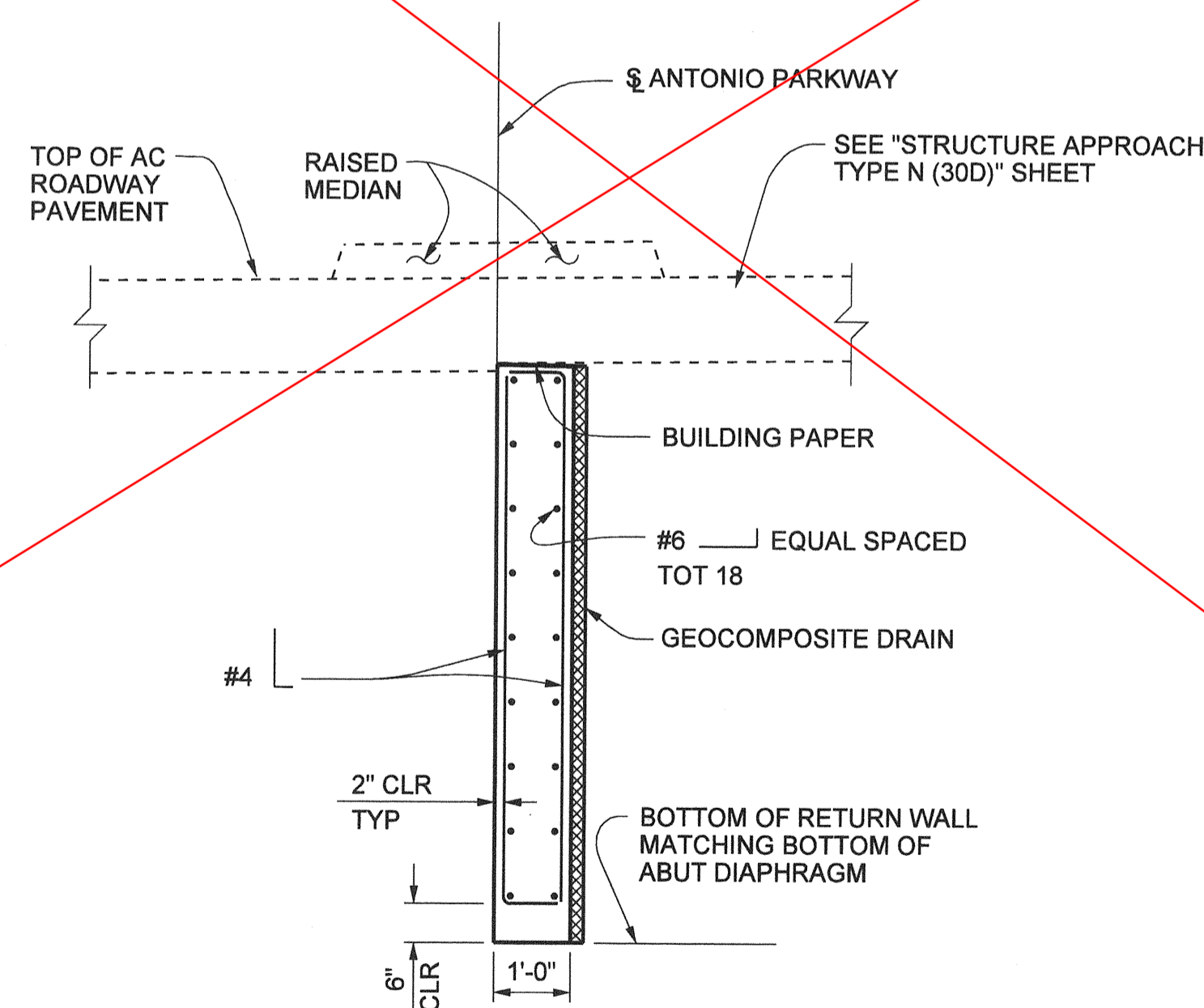
WINGWALL ELEVATION
3/8" = 1'-0"



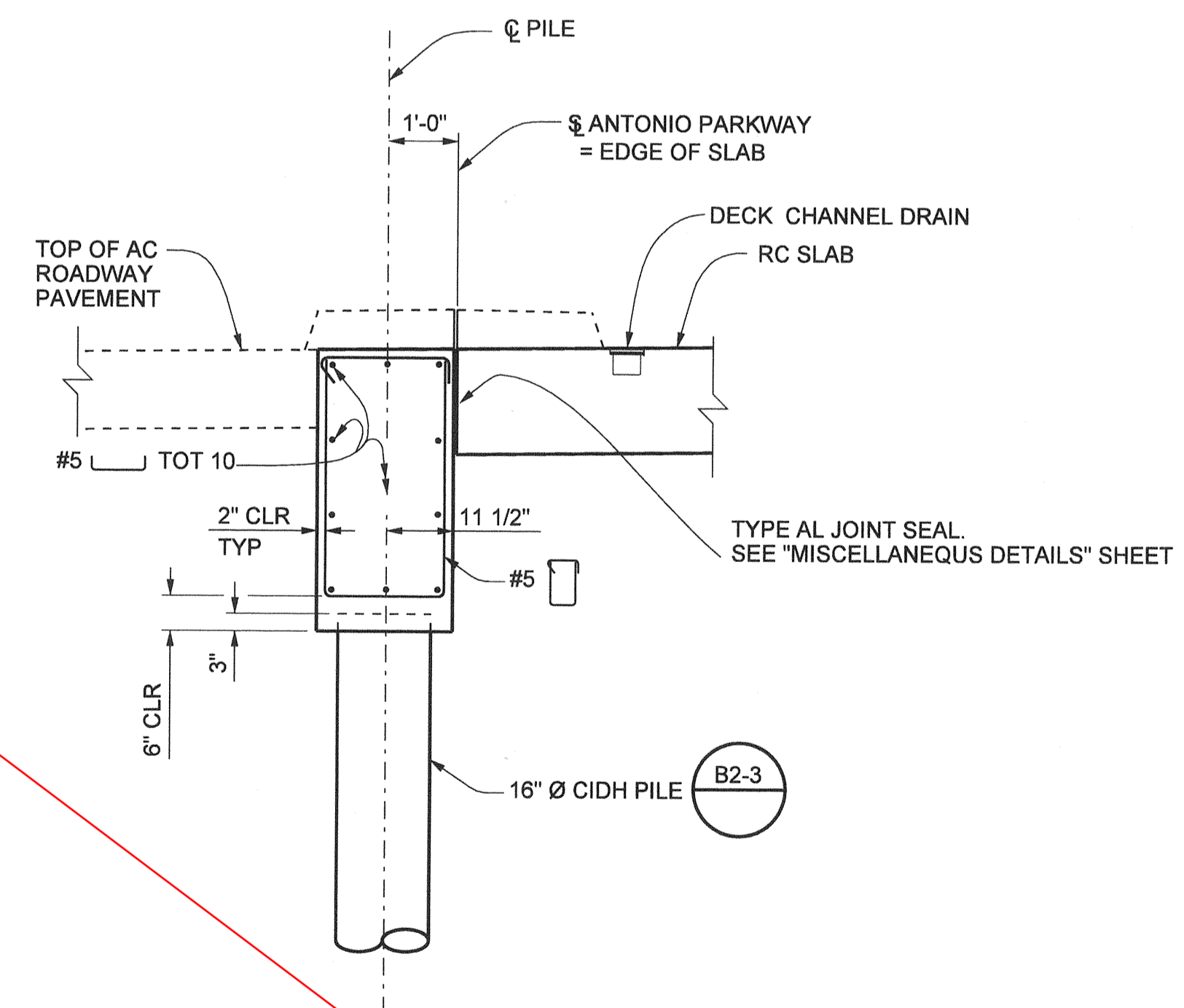
MEDIAN SUPPORT ELEVATION
3/8" = 1'-0"



SECTION B-B
1/2" = 1'-0"



SECTION C-C
1/2" = 1'-0"



SECTION D-D
1/2" = 1'-0"

AS BUILT

CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009

1/2 0 2
3 inches on original drawing

NOTES:

1. THE CONTRACTORS SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
2. FOR DECK CHANNEL DRAIN INFORMATION, SEE "DECK DRAIN LAYOUT" SHEET.

THIS SHEET WAS REPLACED BY SHEET 46R1 OF 72.

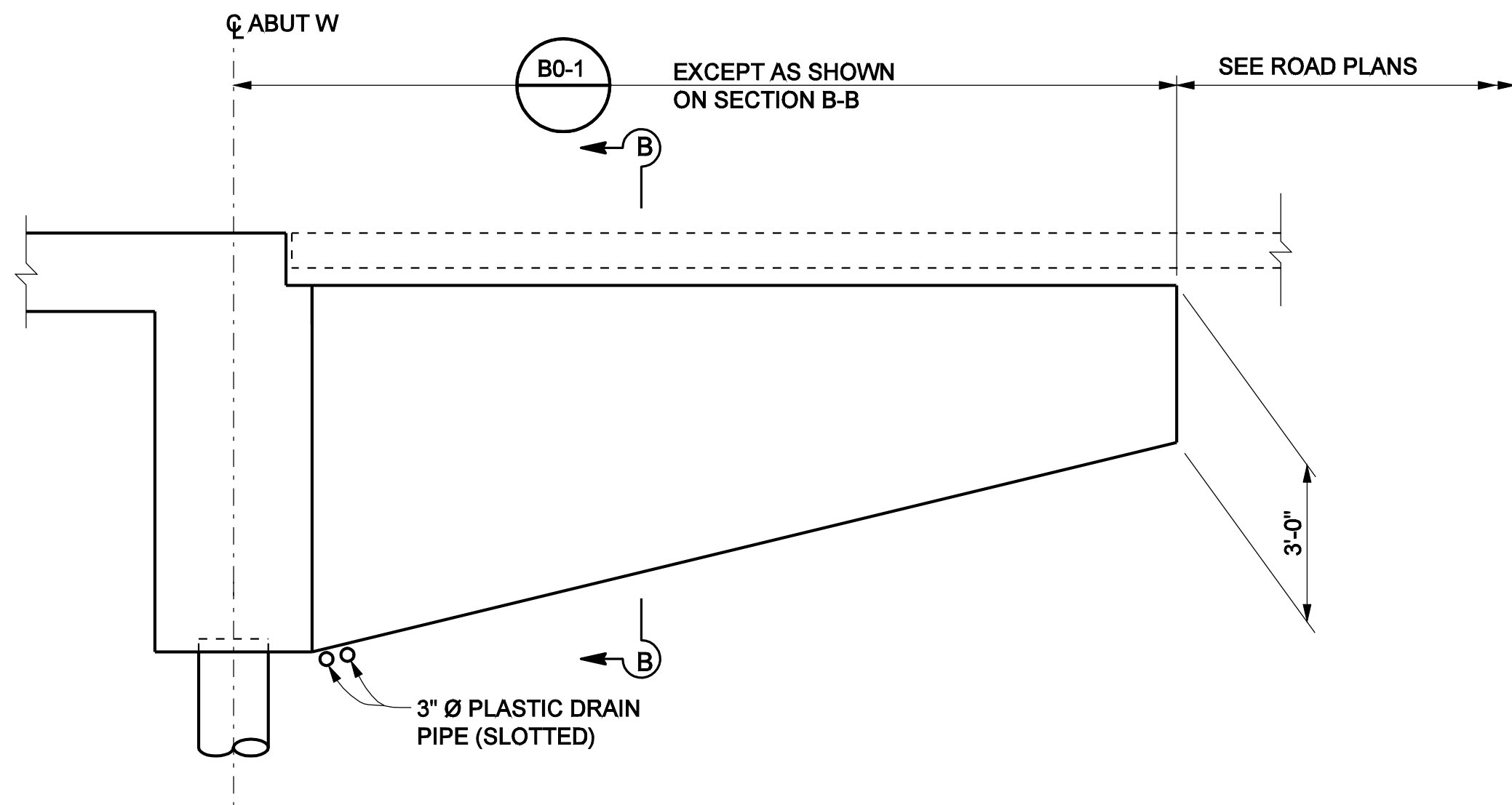
PLANS PREPARED BY:
HNTB
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT		ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)		ABUTMENT W DETAILS	
MARK	DATE	REVISIONS			
PREPARED UNDER RESPONSIBLE CHARGE OF:					
DESIGNED	J. WANG	CHECKED	F. JEANG	SHEET	
DRAWN	J. WANG	DATE			46
SCALE	AS SHOWN	DATE	9/19/06	DRAWING NO.	OF 72

Date Plotted:

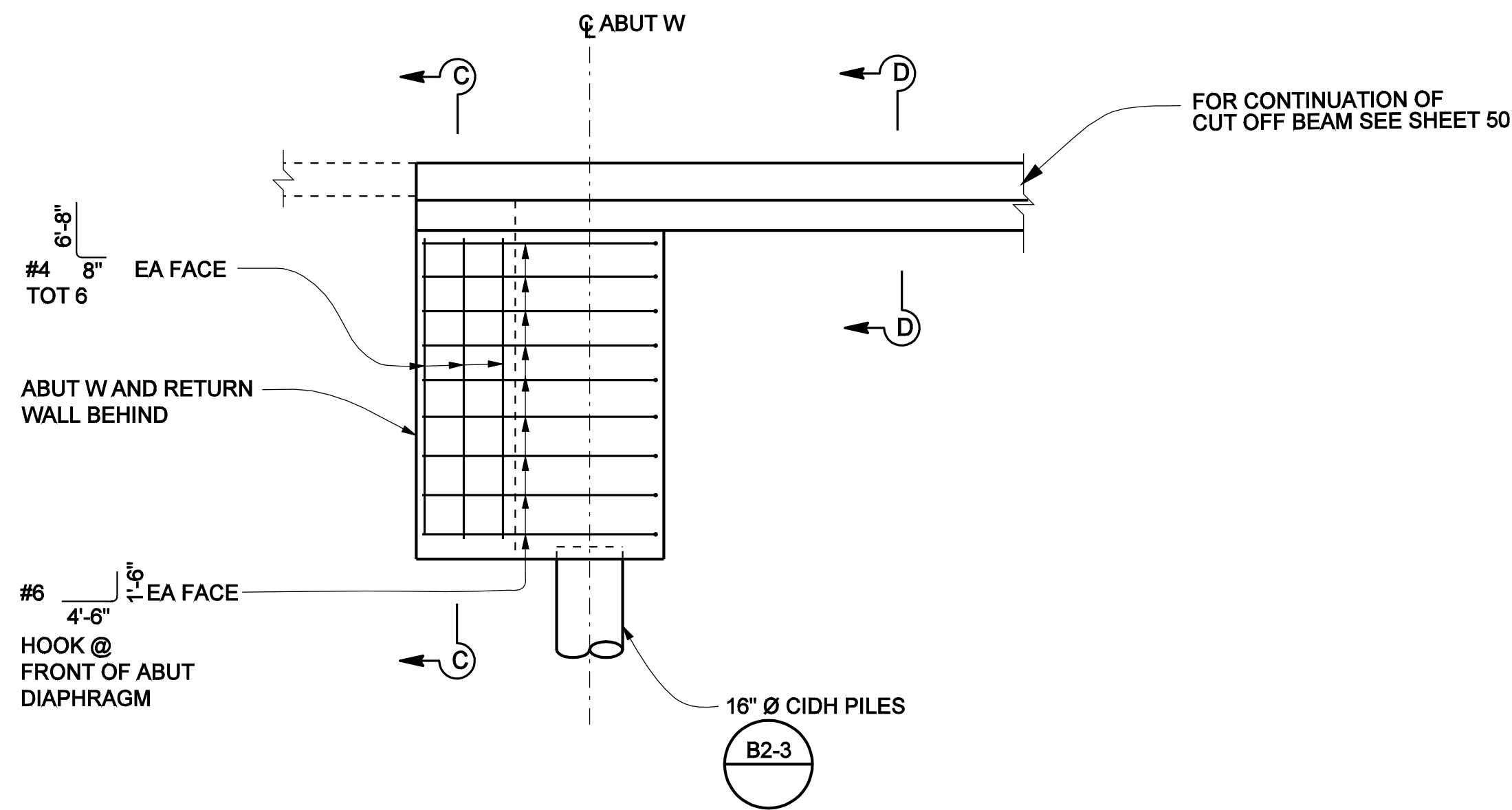
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Border sheet last modified 05-Nov-1999

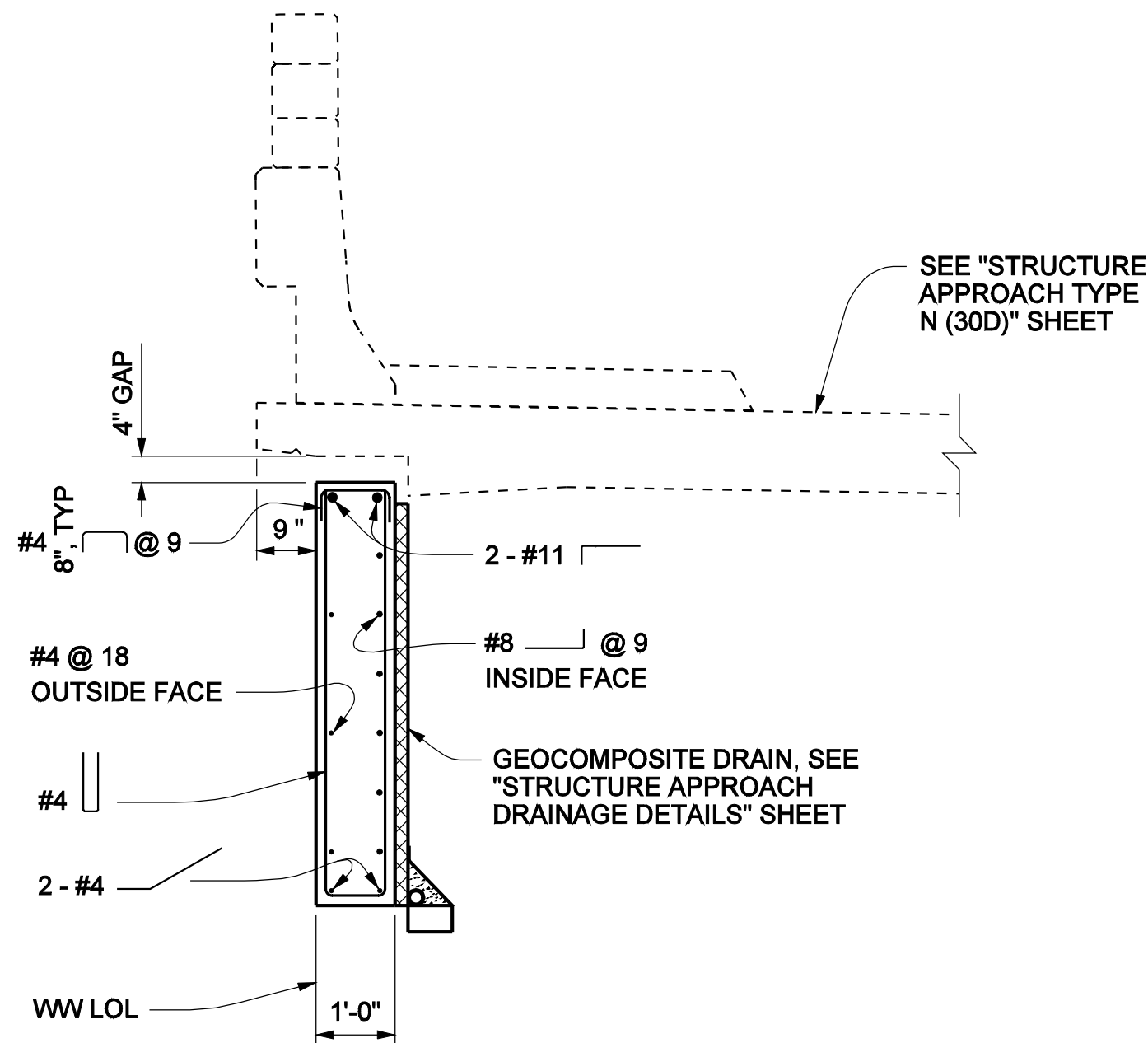


WINGWALL ELEVATION

3/8" = 1'-0"

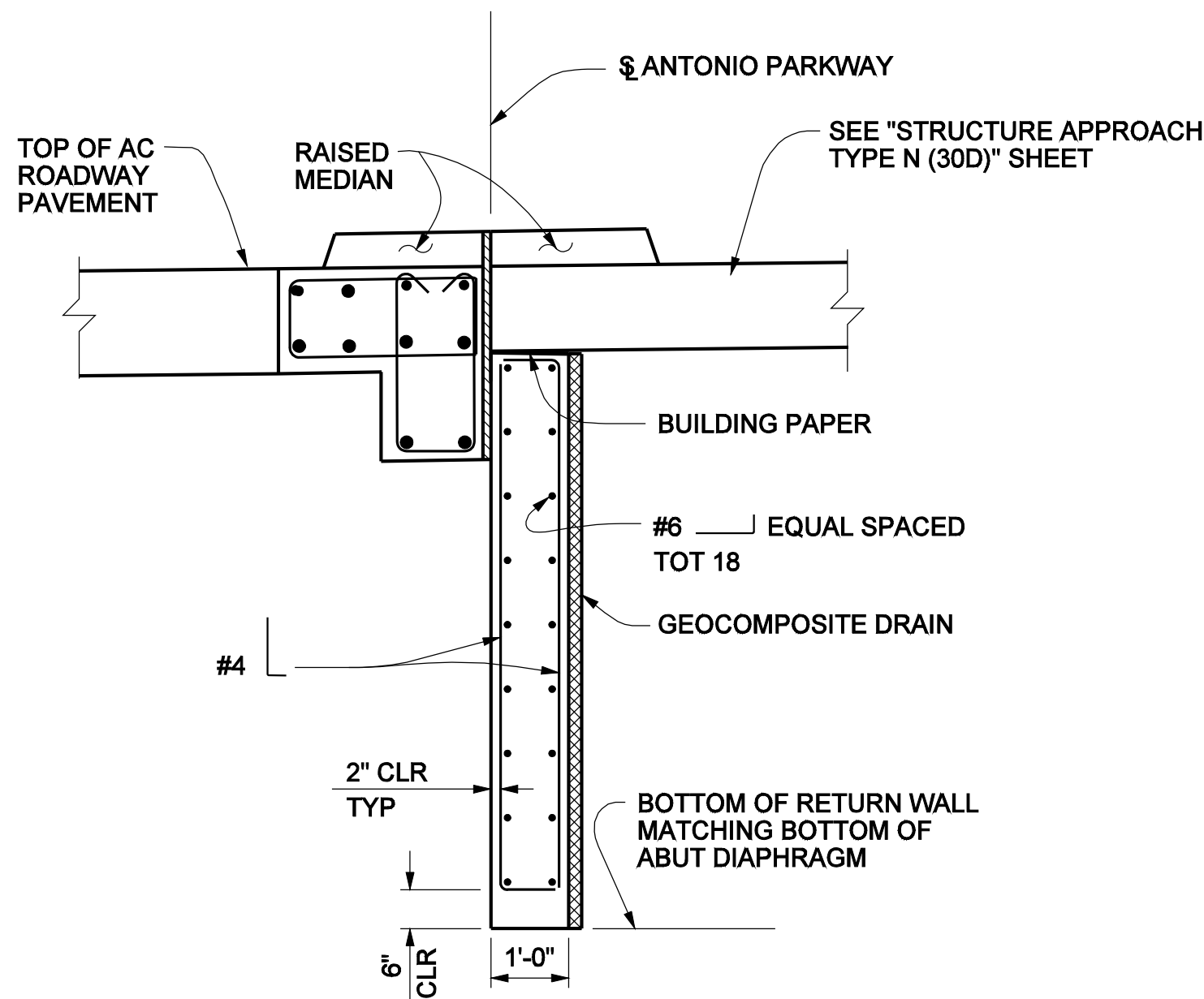


RETURN WALL ELEVATION



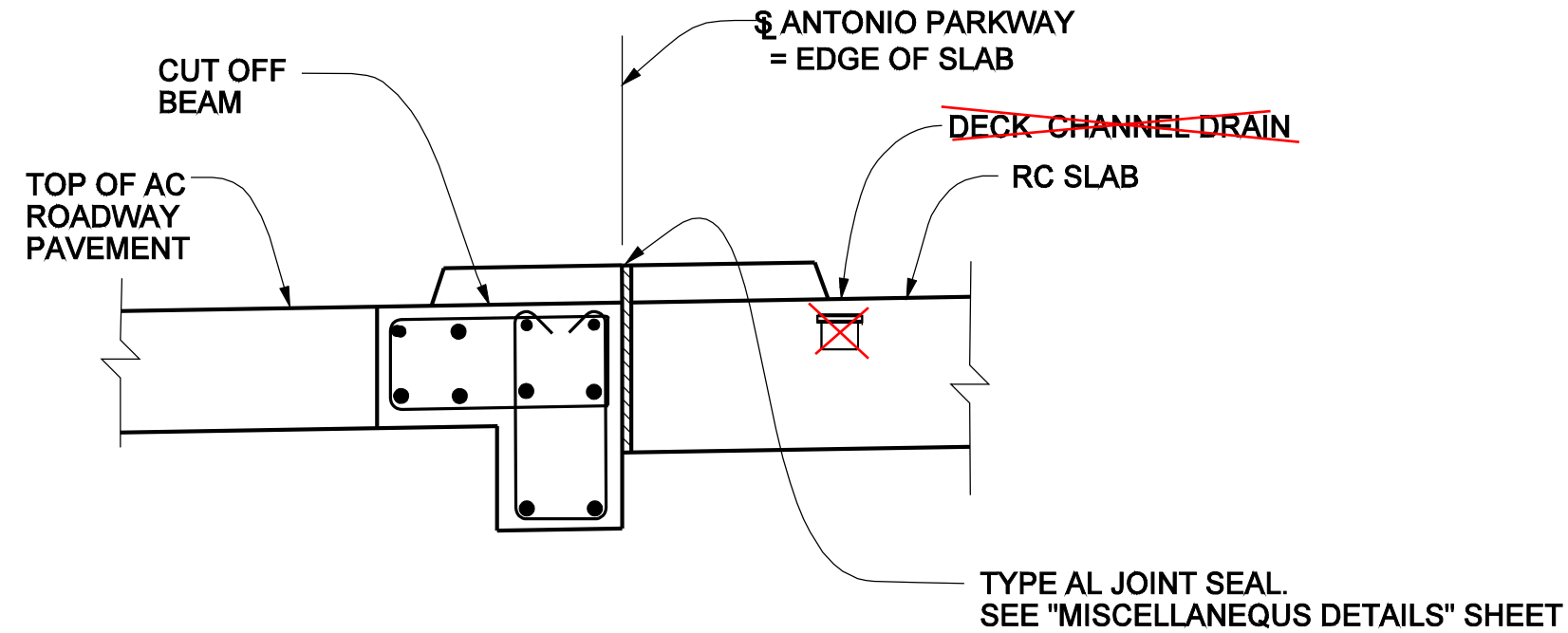
SECTION B-B

1/2" = 1'-0"



SECTION C-C

1/2" = 1'-0"



SECTION D-D

1/2" = 1'-0"

THIS SHEET REPLACES SHEET NO.46
OF 72 OF PLAN APPROVED OCTOBER 2006



NOTES:

1. THE CONTRACTORS SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
2. FOR DECK CHANNEL DRAIN INFORMATION, SEE "DECK DRAIN LAYOUT" SHEET.

AS BUILT

CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009

PLANS PREPARED BY:
HNTB
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL. (714) 460-1600 FAX (714) 460-1610

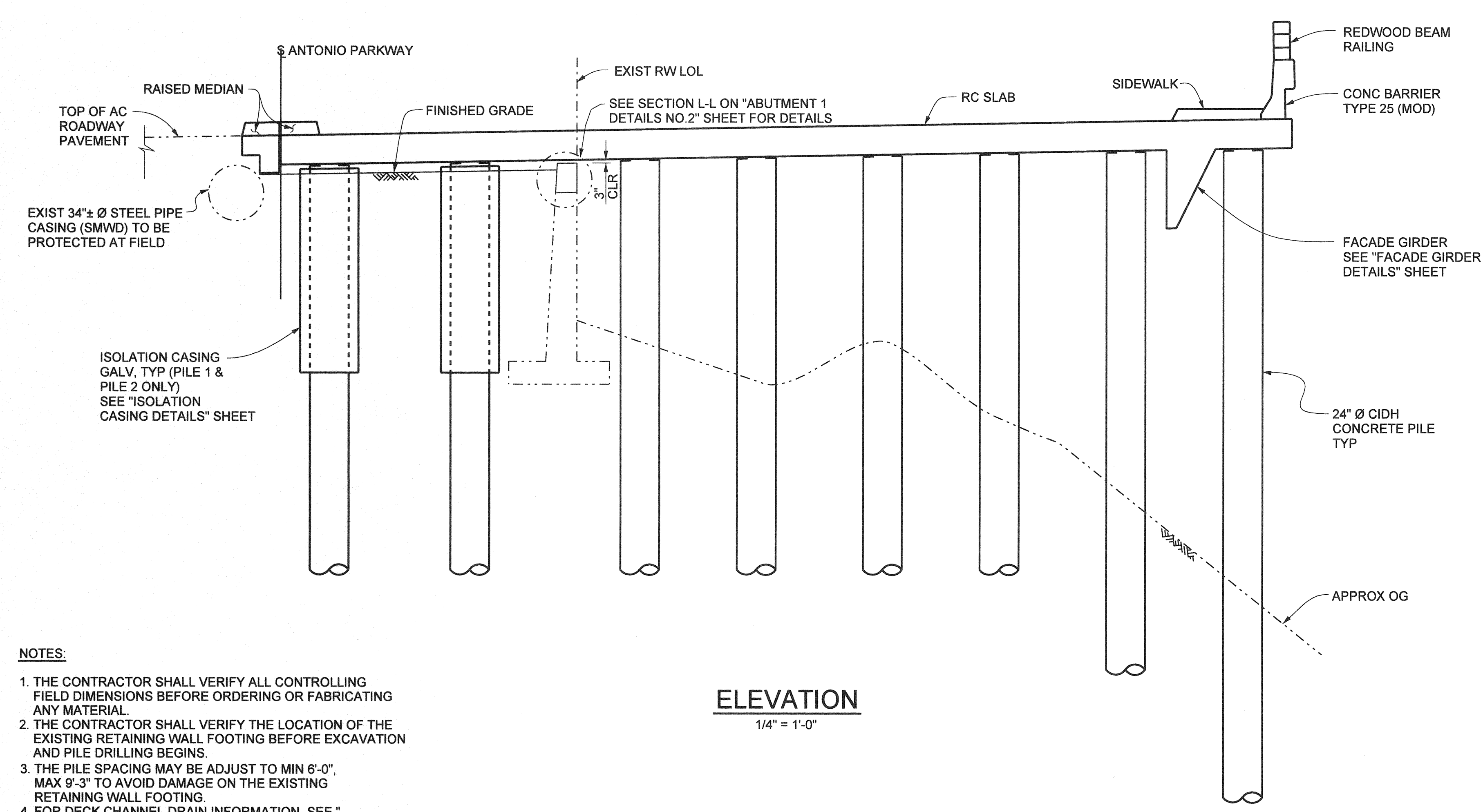
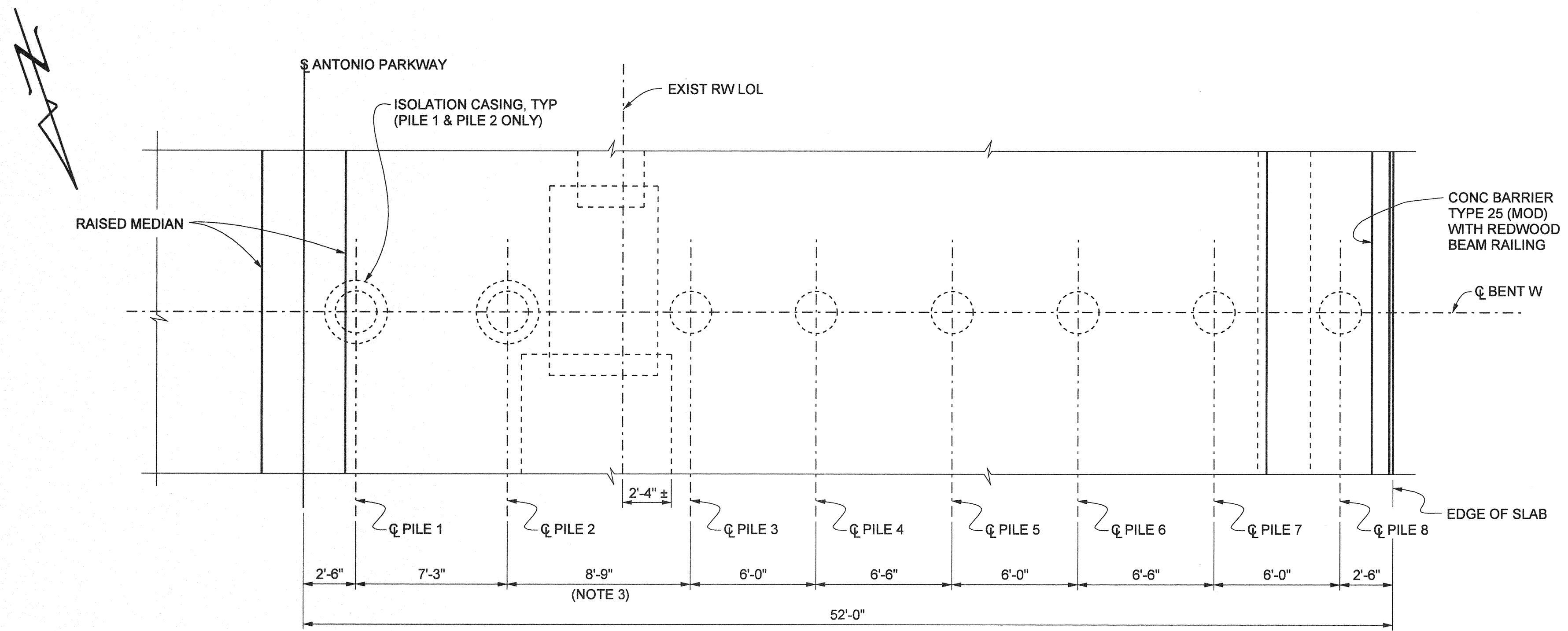
		ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
		ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)	
DESIGNED <u>J. WANG</u>		SHEET	
DRAWN <u>AA. WANG</u>		CHECKED <u>F. JEANG</u>	
SCALE AS SHOWN	DATE 9/19/06	DRAWING NO. 46R1	
		OF 72	

PREPARED UNDER RESPONSIBLE CHARGE OF:
Yung-Nien Wang
RCE C 43559 (EXP. 6-30-06)

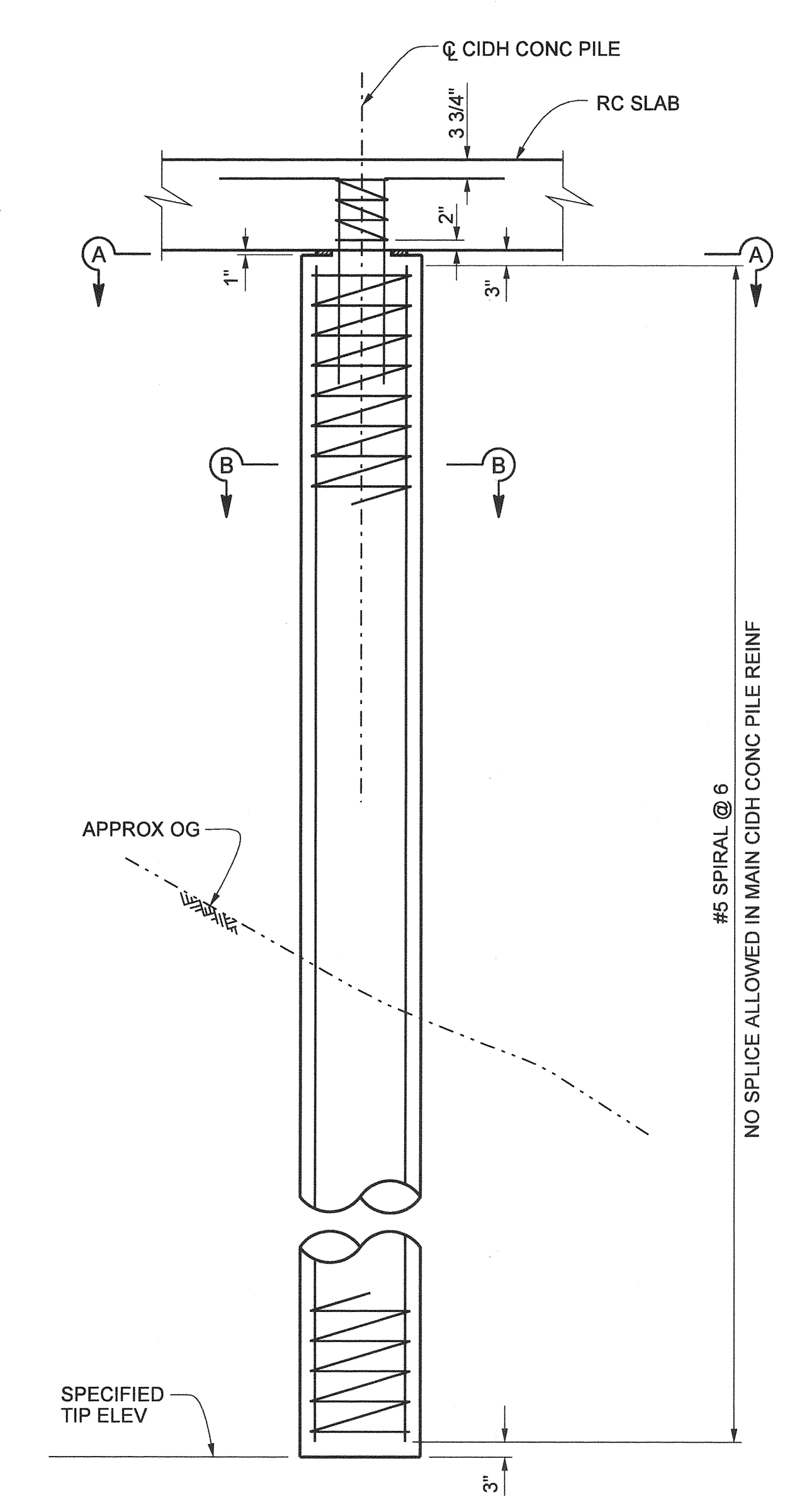
REVISIONS
1/07 DELETED MEDIAN SUPPORT WALL. EXTENDED CUT OFF BEAM

Date Plotted:

File Name: J:\34092\CADD\Strcsheets\antoniopkwy-S-06R1.dgn



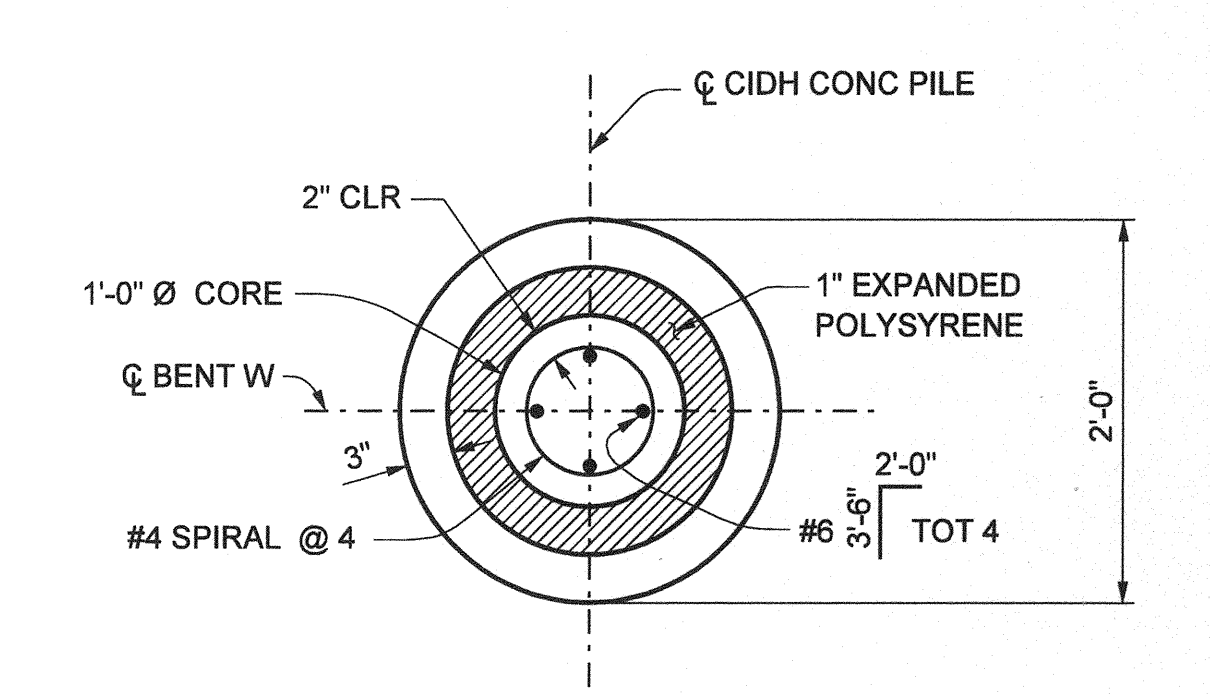
- NOTES:**
1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
 2. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE EXISTING RETAINING WALL FOOTING BEFORE EXCAVATION AND PILE DRILLING BEGINS.
 3. THE PILE SPACING MAY BE ADJUST TO MIN 6'-0", MAX 9'-3" TO AVOID DAMAGE ON THE EXISTING RETAINING WALL FOOTING.
 4. FOR DECK CHANNEL DRAIN INFORMATION, SEE "DECK DRAIN LAYOUT" SHEET.
 5. ALL HOOPS SHALL BE WELDED AS SHOWN ON DETAIL "BAR SPIRAL SPLICE, SPIRAL ANCHOR AND HOOP DETAIL" ON "BENT 2 & 3 DETAIL NO. 2" SHEET.



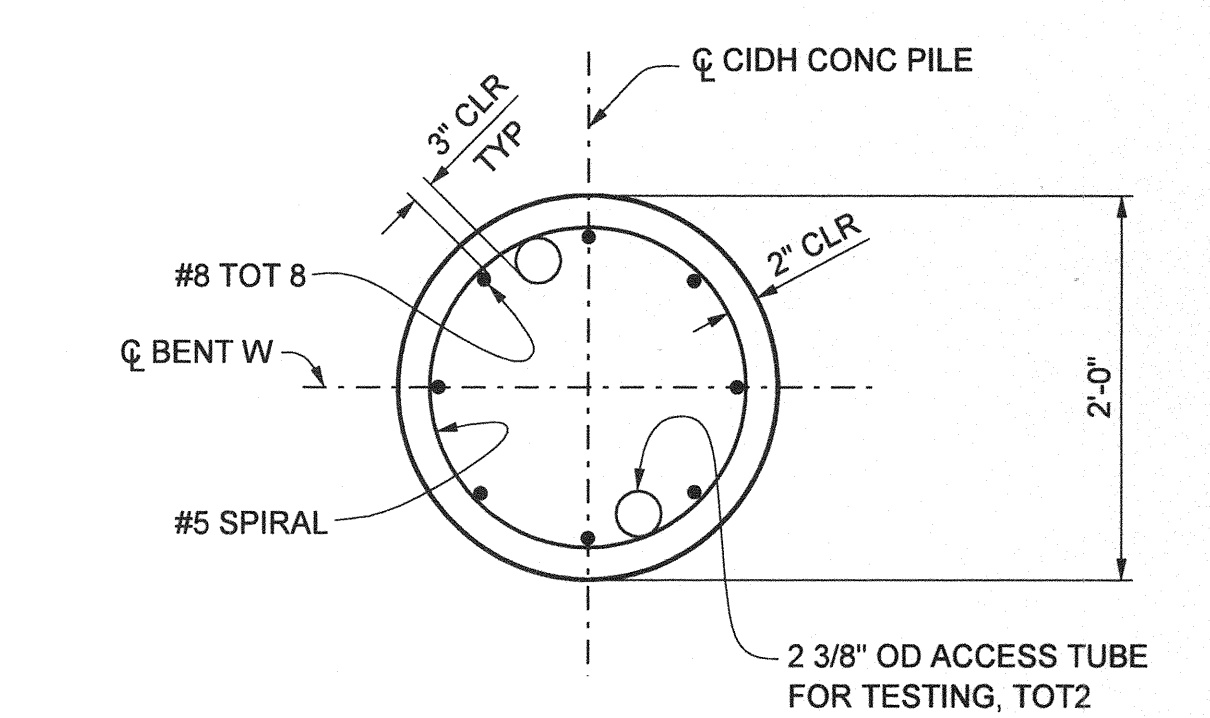
24" Ø CIDH CONCRETE PILE ELEVATION
1/2" = 1'-0"

PILE WITHOUT CASING SHOWN, PILE WITH CASING SIMILAR

- LEGEND**
- DENOTES EXISTING STRUCTURE
 - DENOTES NEW STRUCTURE



SECTION A-A
1" = 1'-0"



SECTION B-B
1" = 1'-0"

NO AS BUILT CHANGES

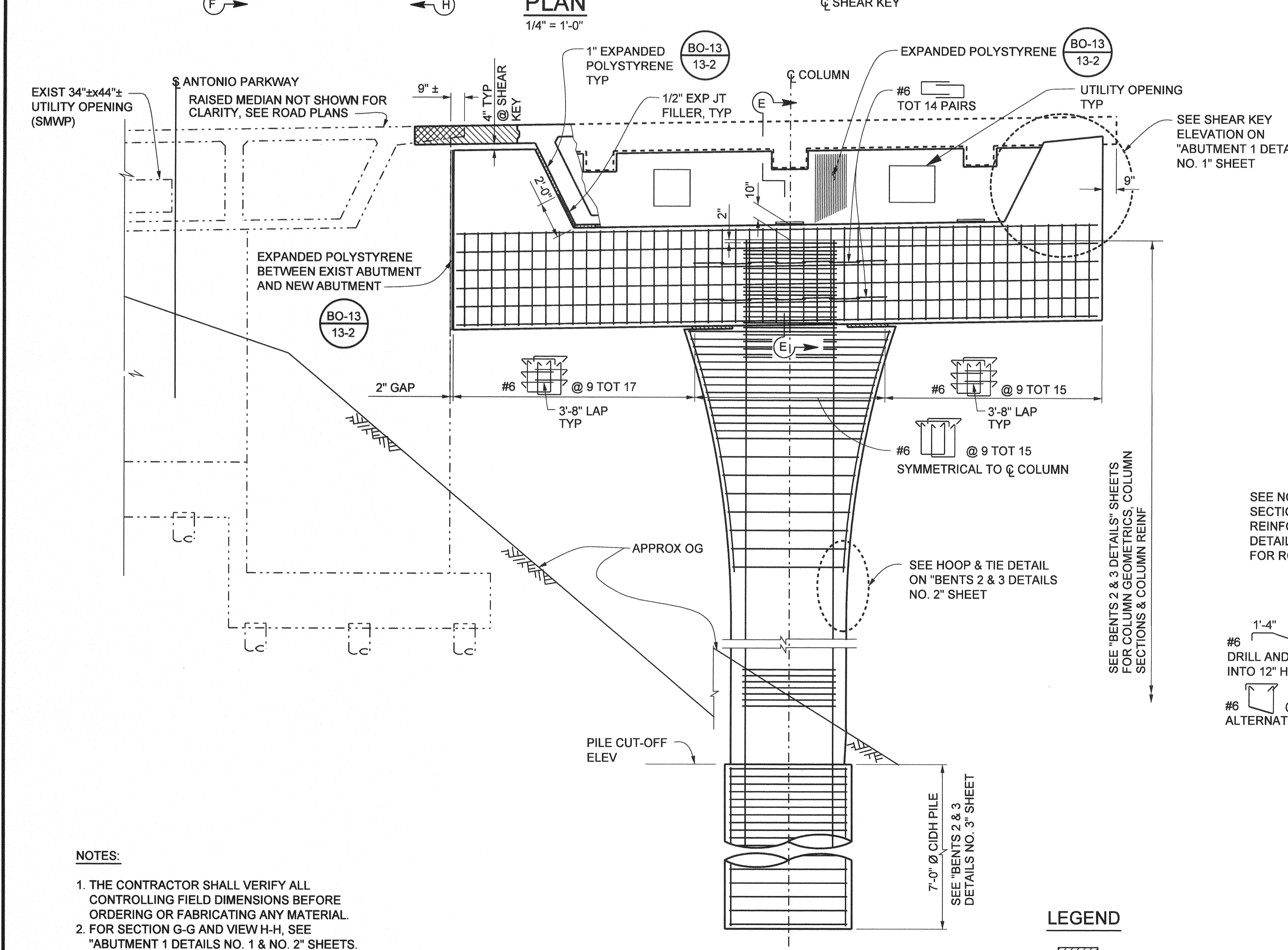
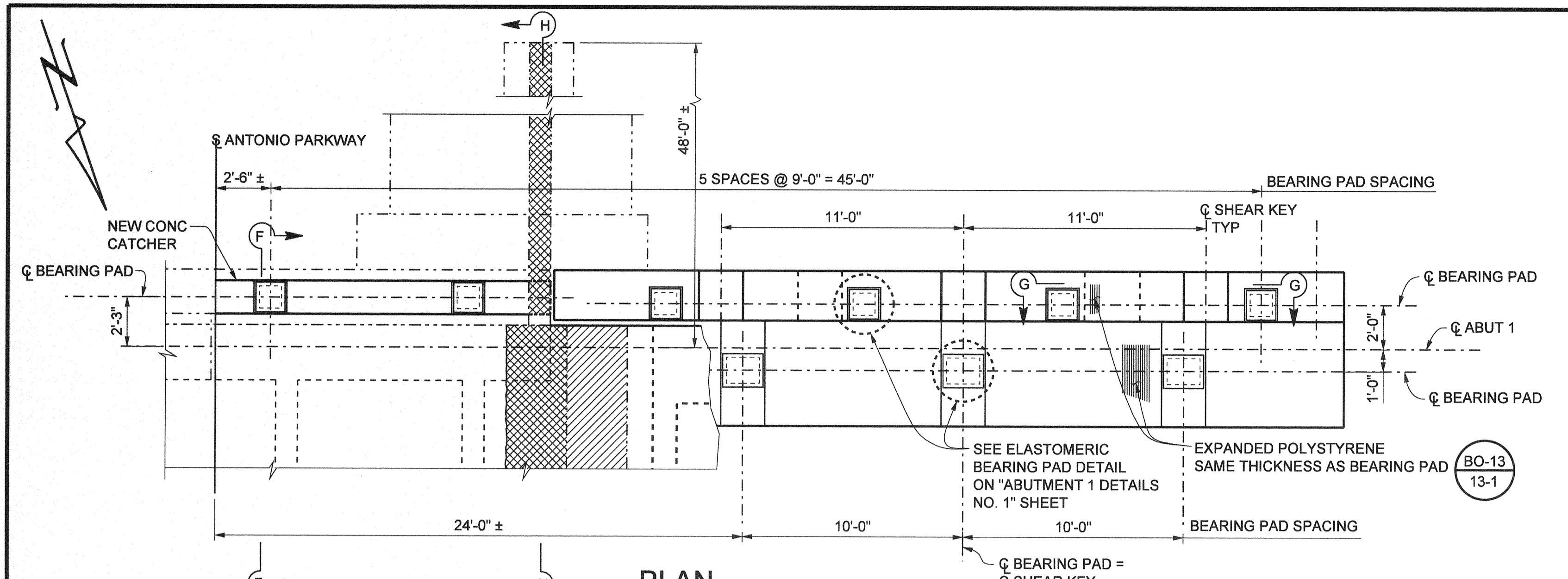
AS BUILT

CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009

PLANS PREPARED BY:
HNTB
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT		ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)		BENT W AND 24" Ø PILE DETAILS	
DESIGNED	J. WANG	CHECKED	F. JEANG	SHEET 47 OF 72	
DRAWN	L. ZHANG	DATE		DRAWING NO.	
SCALE	AS SHOWN	DATE	9/18/08		

PREPARED UNDER RESPONSIBLE CHARGE OF:
Yung-Nien Wang
REGISTERED PROFESSIONAL ENGINEER
NO. C 43559
EXP. 6-30-08
CIVIL
STATE OF CALIFORNIA
DATE 12/31/06

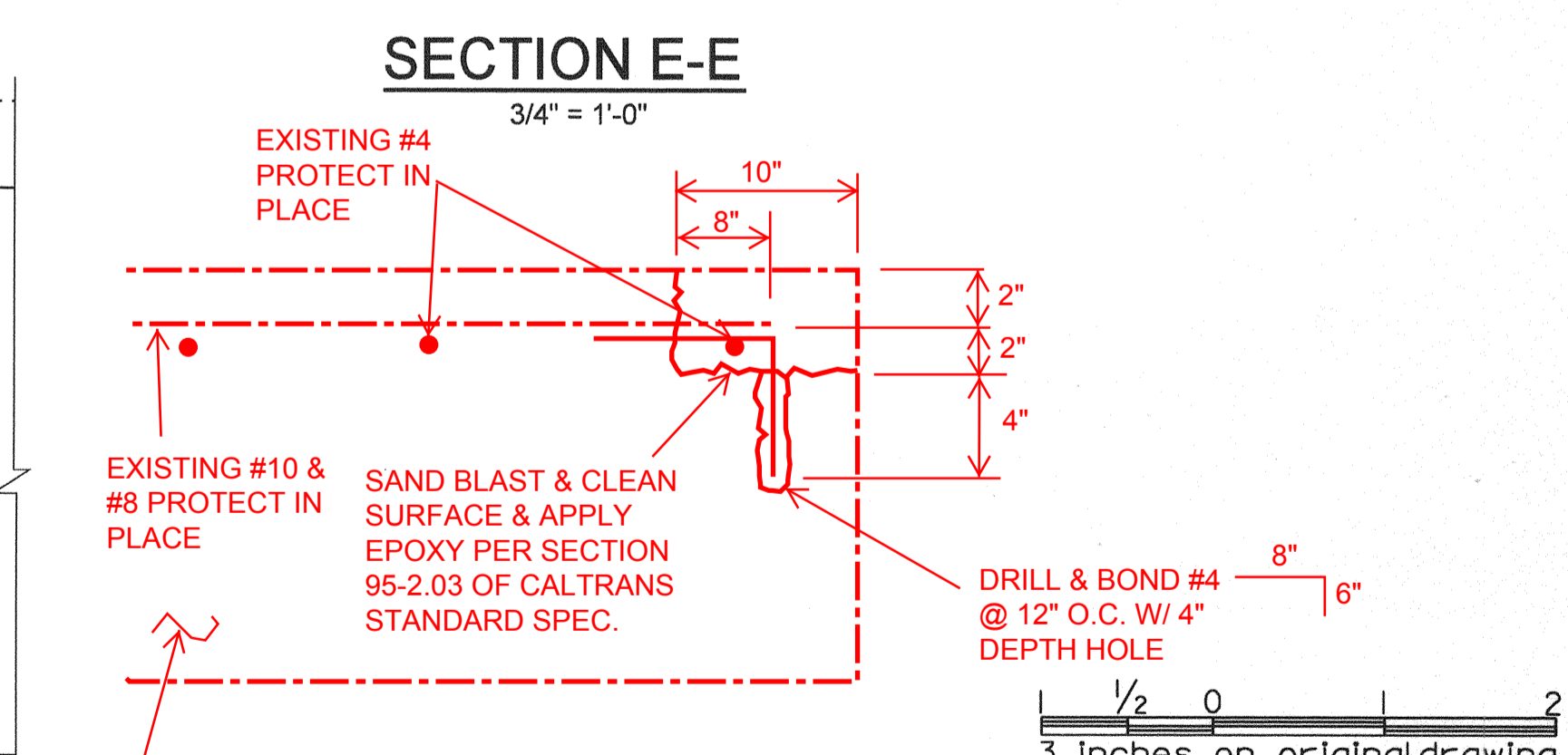
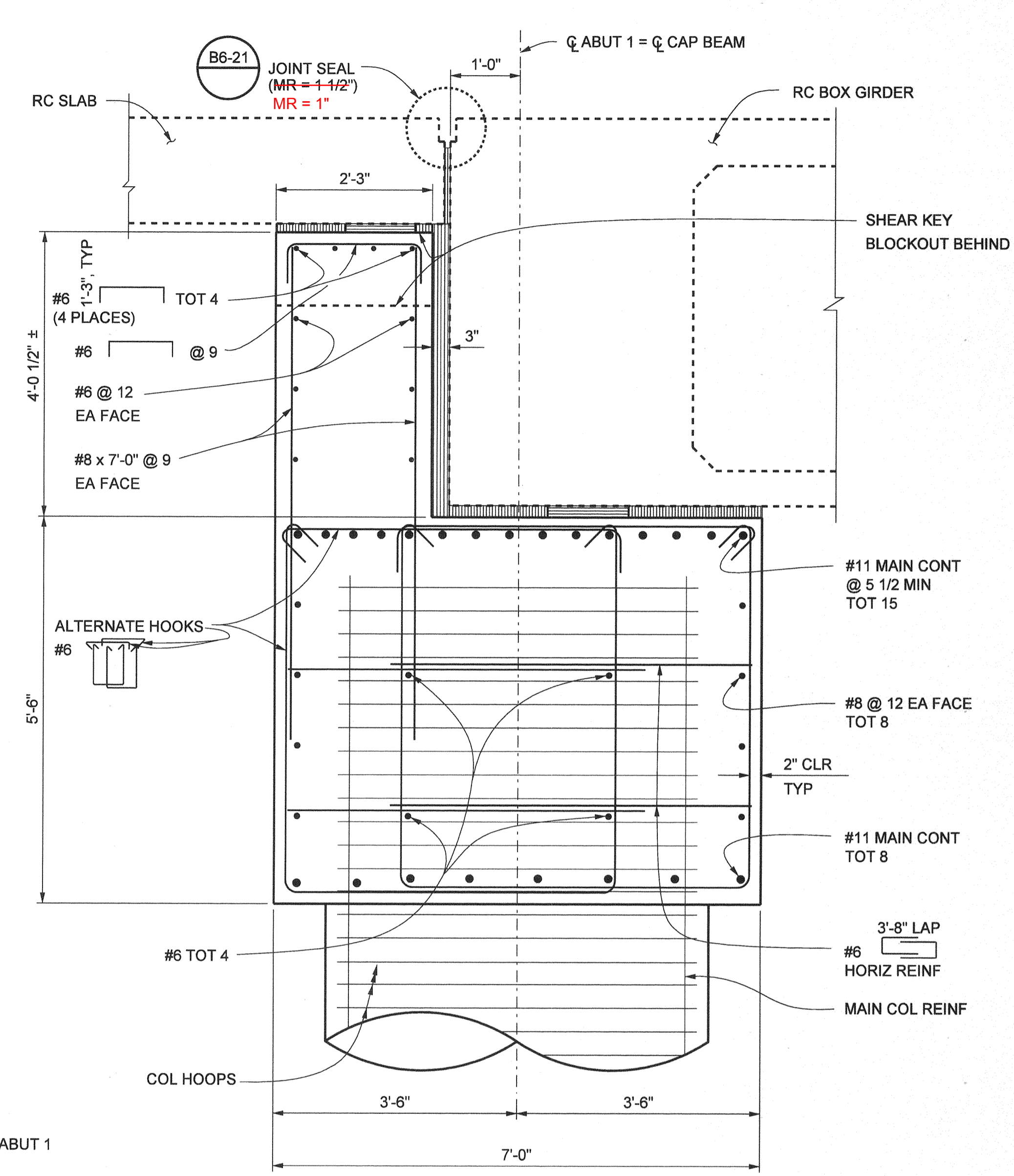
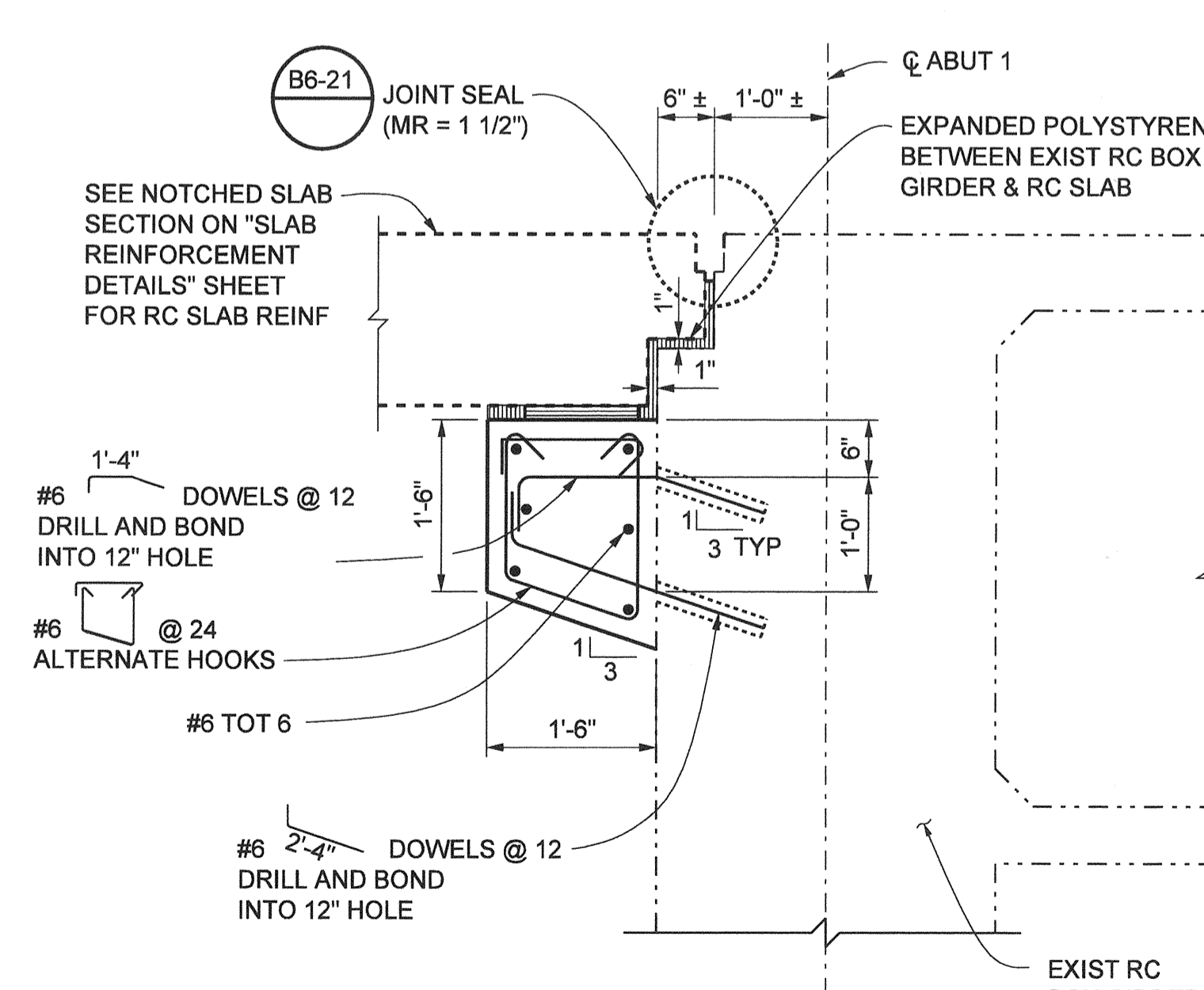


AS BUILT

CORRECTION BY: MN

CONTRACT NO.: ER28121

DATE: 12/30/2009



- NOTES:**
1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
 2. FOR SECTION G-G AND VIEW H-H, SEE "ABUTMENT 1 DETAILS NO. 1 & NO. 2" SHEETS.
 3. NO SPLICE ALLOWED IN MAIN BENT CAP REINF.
 4. FOR UTILITY SIZE AND LOCATION, SEE "TYPICAL SECTION" SHEET.

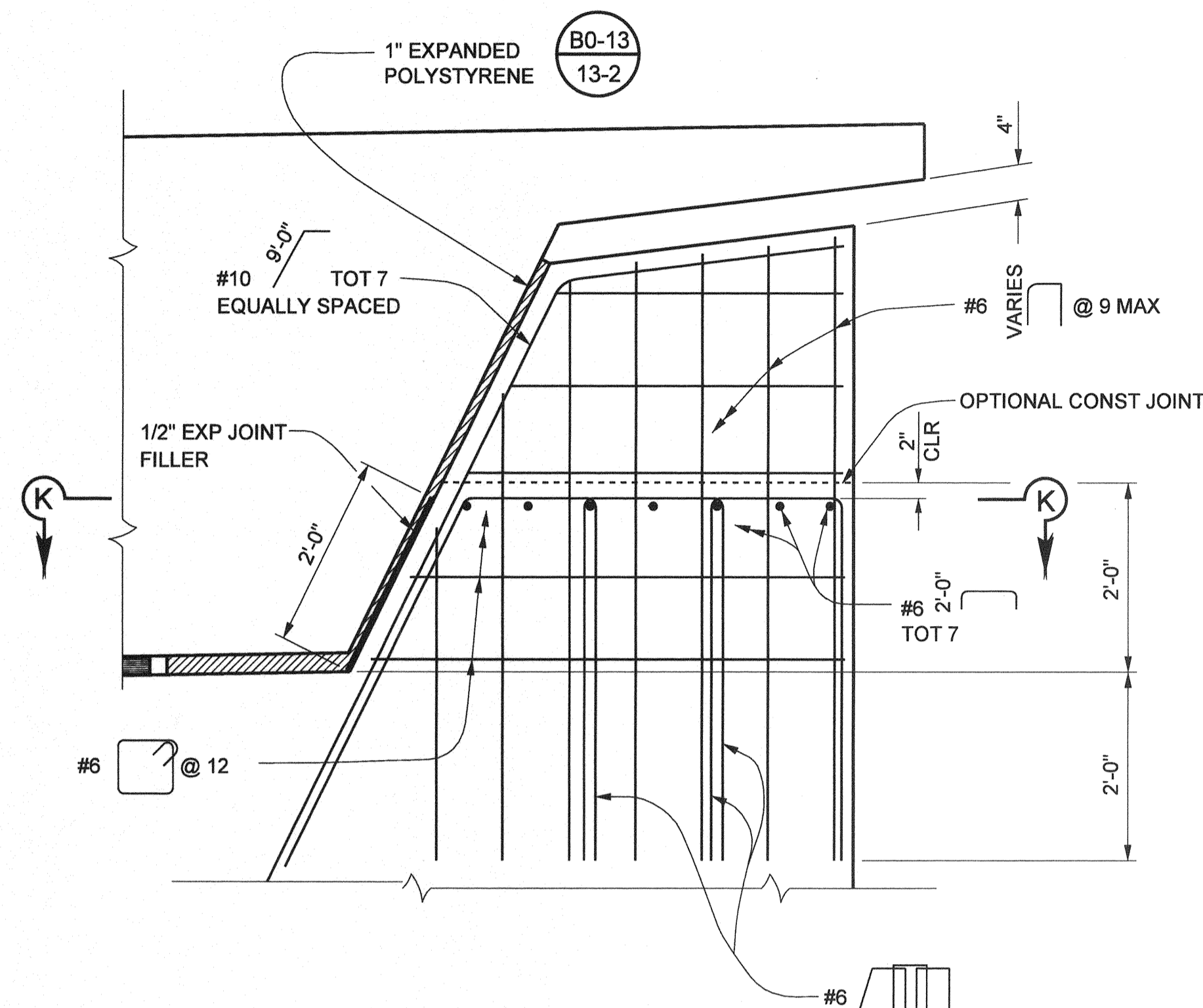
- LEGEND**
- BRIDGE REMOVAL (PORTION)
 - CLOSURE POUR
 - DENOTES EXISTING STRUCTURE
 - DENOTES NEW STRUCTURE

PLANS PREPARED BY:

HNTB

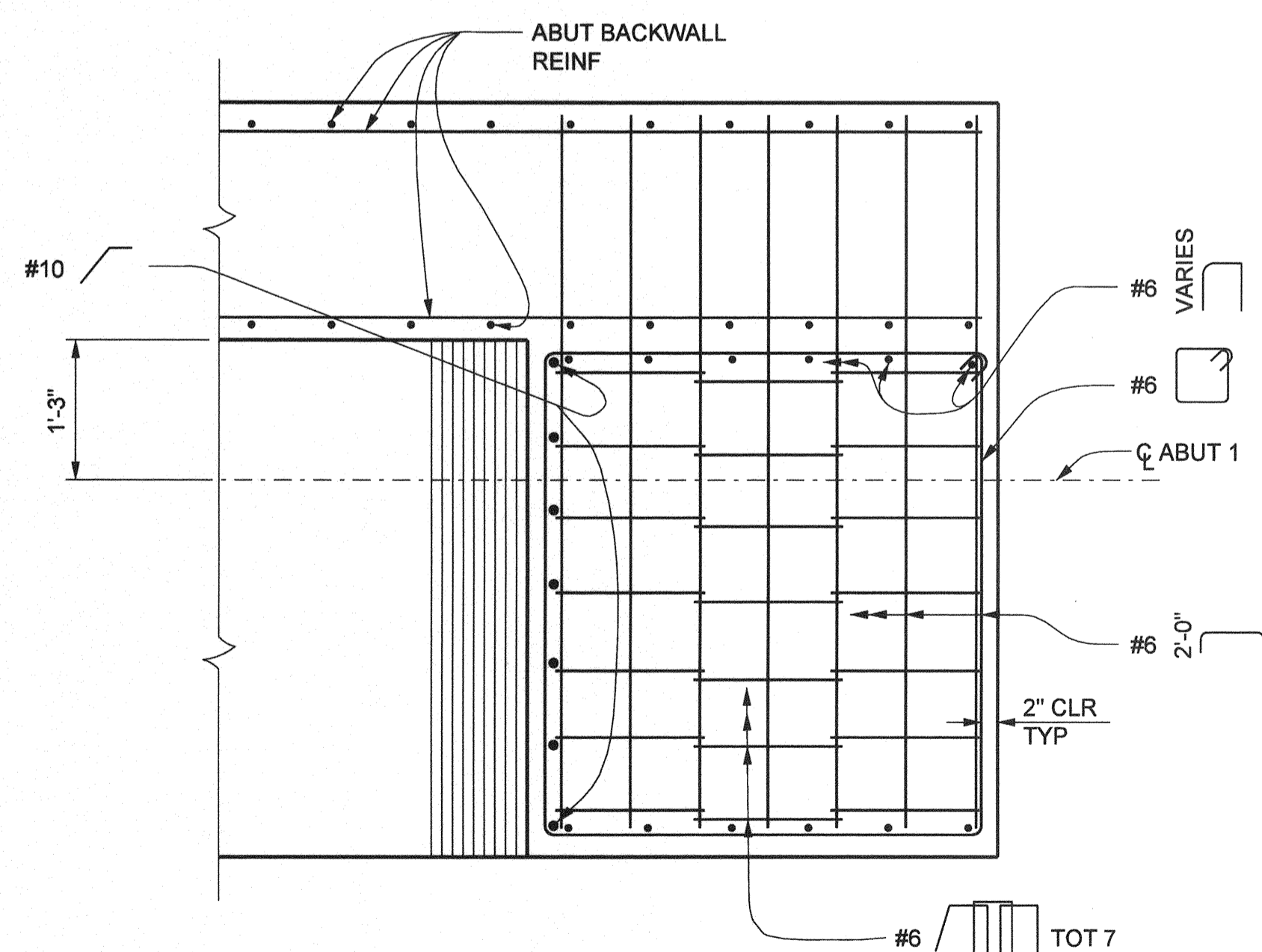
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT		ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)		ABUTMENT 1 LAYOUT	
MARK	DATE	DESCRIPTION			
REVISIONS					
PREPARED UNDER RESPONSIBLE CHARGE OF:					
DESIGNED	J. WANG	CHECKED	F. JIANG	SHEET	
DRAWN	L. ZHANG	DRAWING NO.			48
SCALE	AS SHOWN	DATE	9/19/08	OF 72	



SHEAR KEY ELEVATION

3/4" = 1'-0"
NORTH SHEAR KEY SHOWN
SOUTH SHEAR KEY SIMILAR

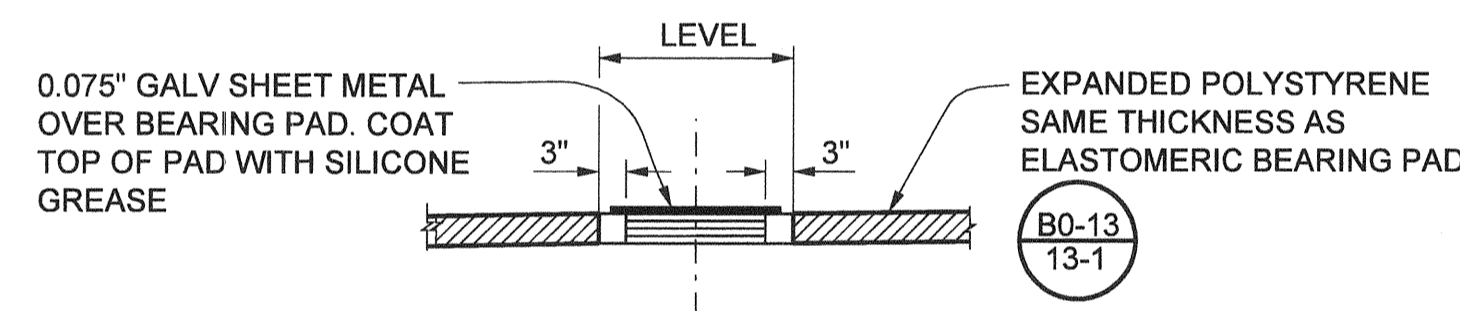


SECTION K-K

3/4" = 1'-0"

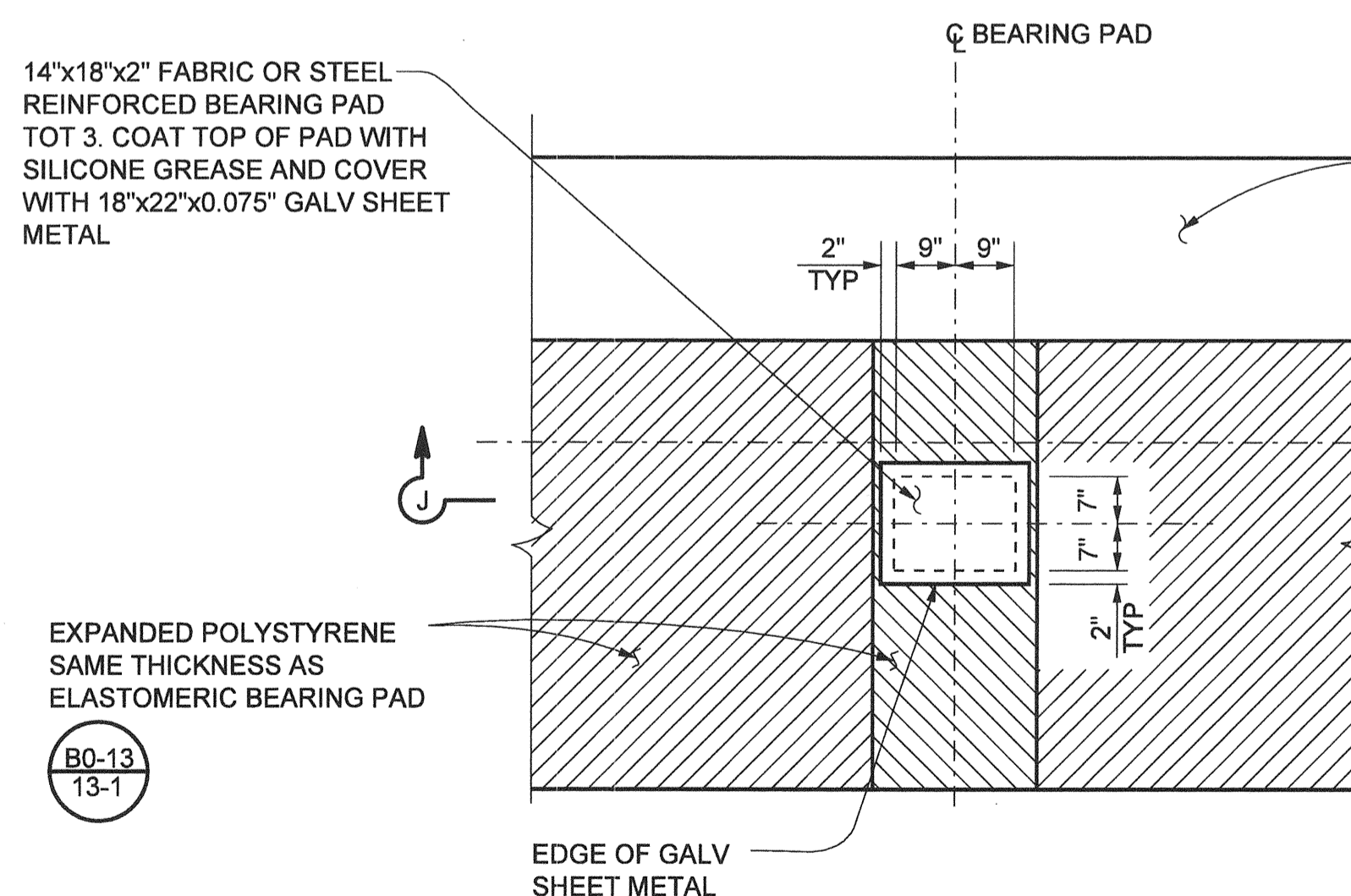
NOTE:

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



SECTION J-J

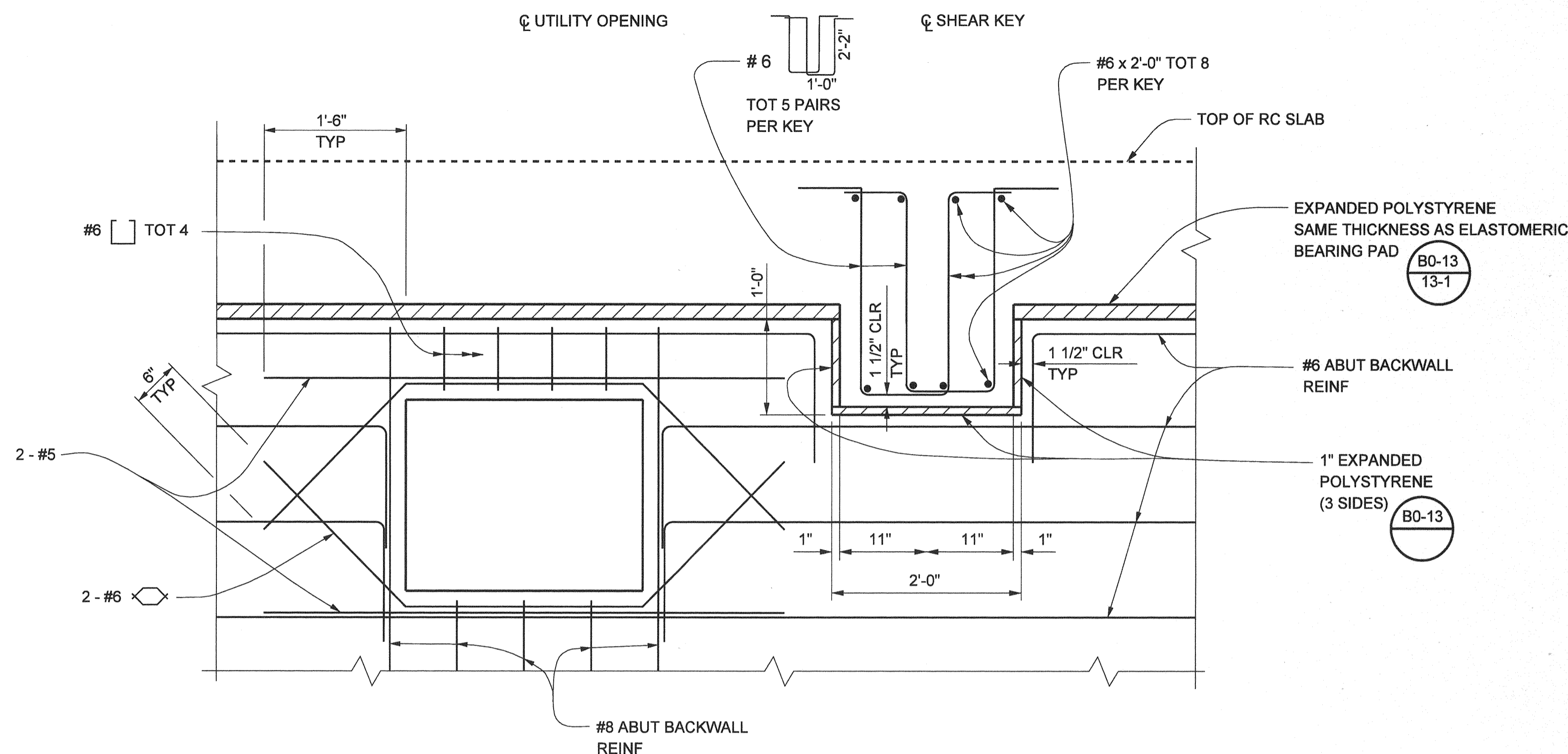
RC BOX GIRDER SHOWN
RC SLAB SIMILAR



RC BOX GIRDER

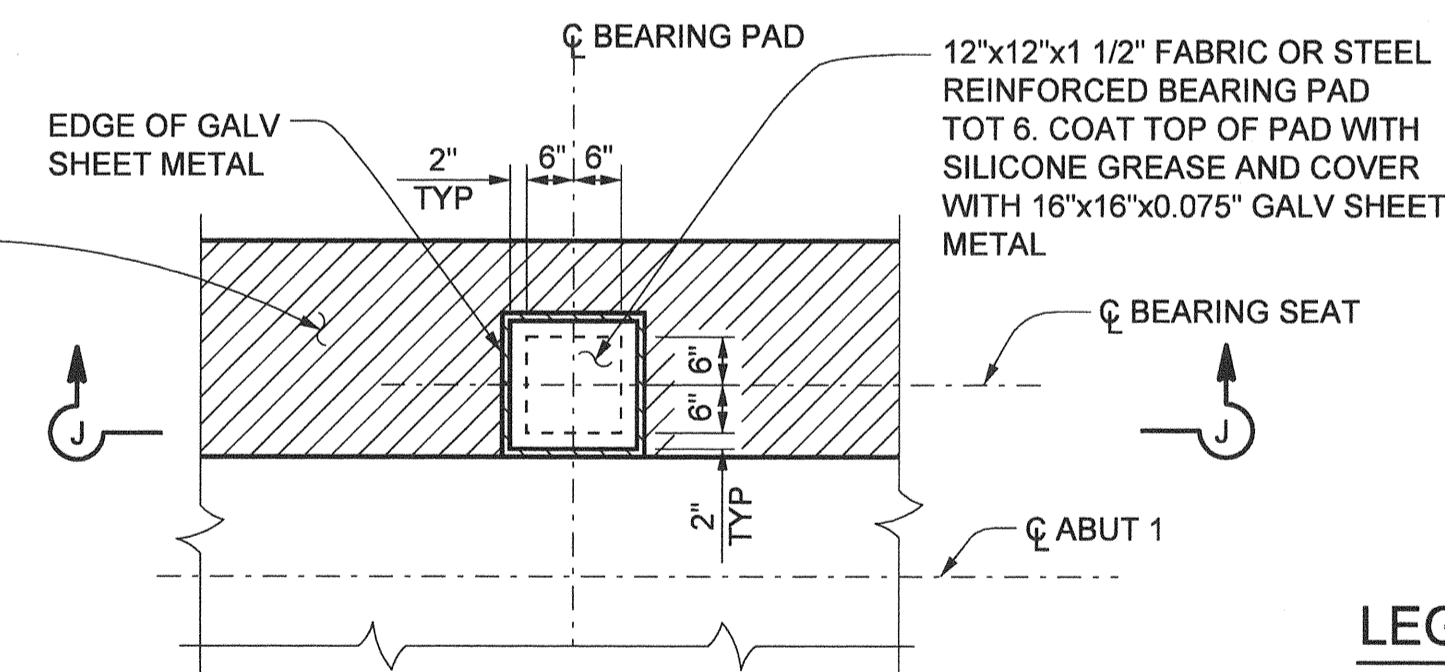
ELASTOMERIC BEARING PAD DETAIL

NO SCALE



SECTION G-G

1" = 1'-0"



RC SLAB

BEARING PAD ON BACKWALL SHOWN
BEARING PAD ON BRACKET SIMILAR

NO AS BUILT CHANGES

AS BUILT

CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009

LEGEND

- EXPANDED POLYSTYRENE ON SLOPE CONCRETE
- EXPANDED POLYSTYRENE ON LEVEL CONCRETE

1 1/2 0 1 2
3 Inches on original drawing

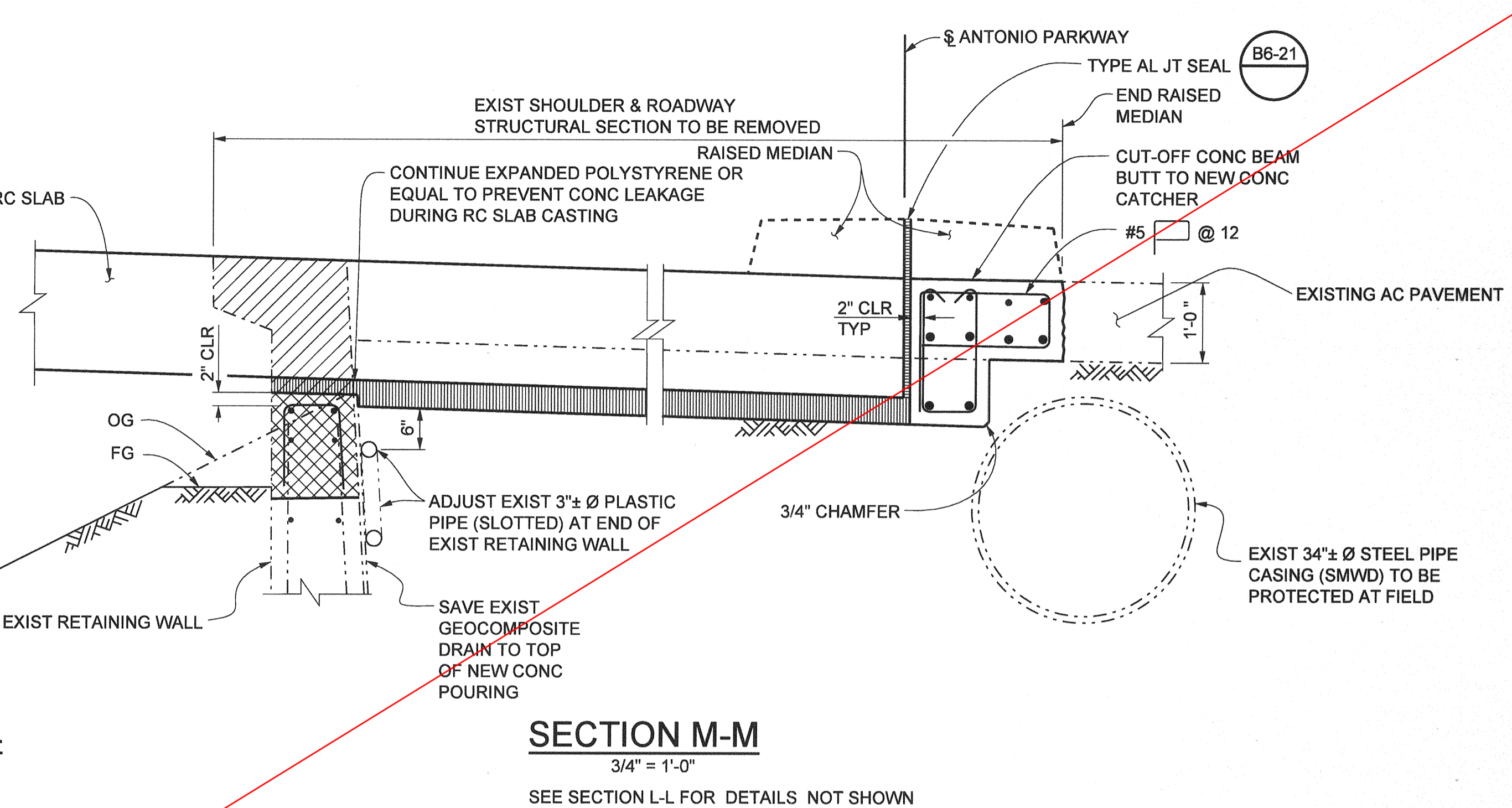
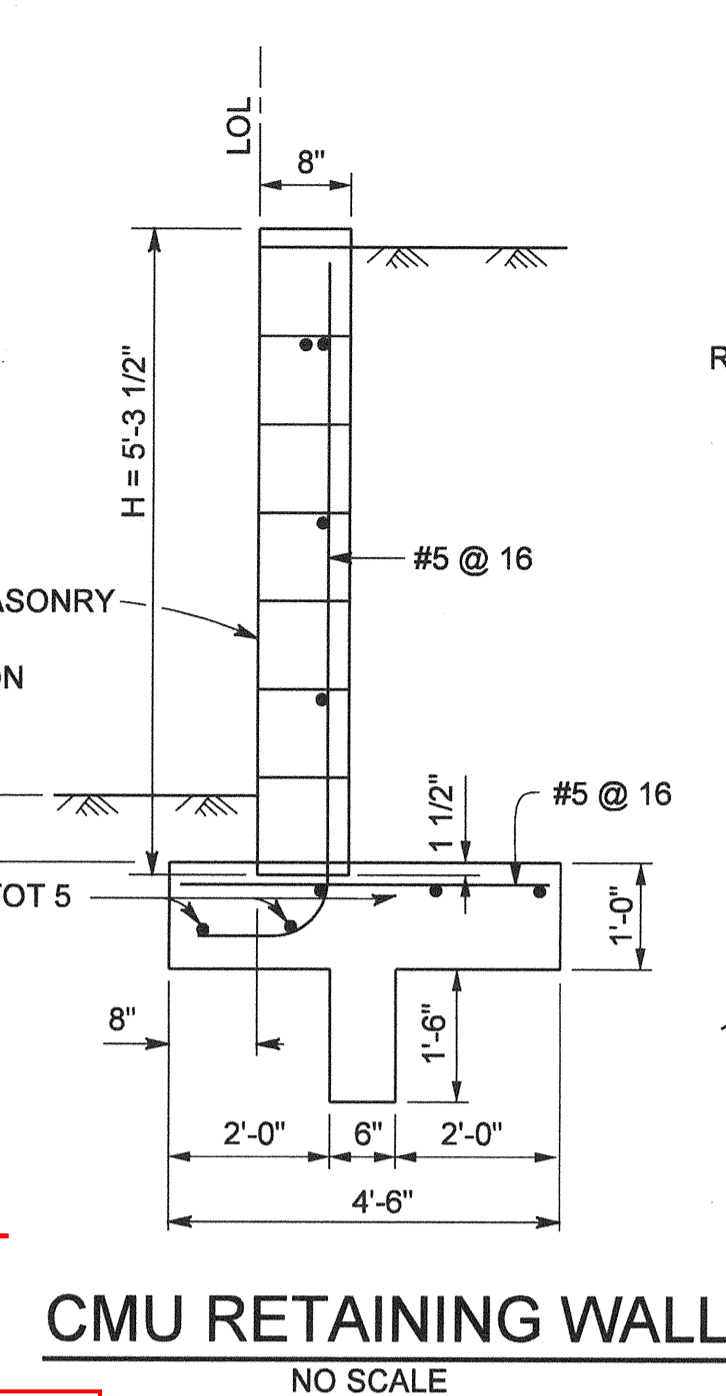
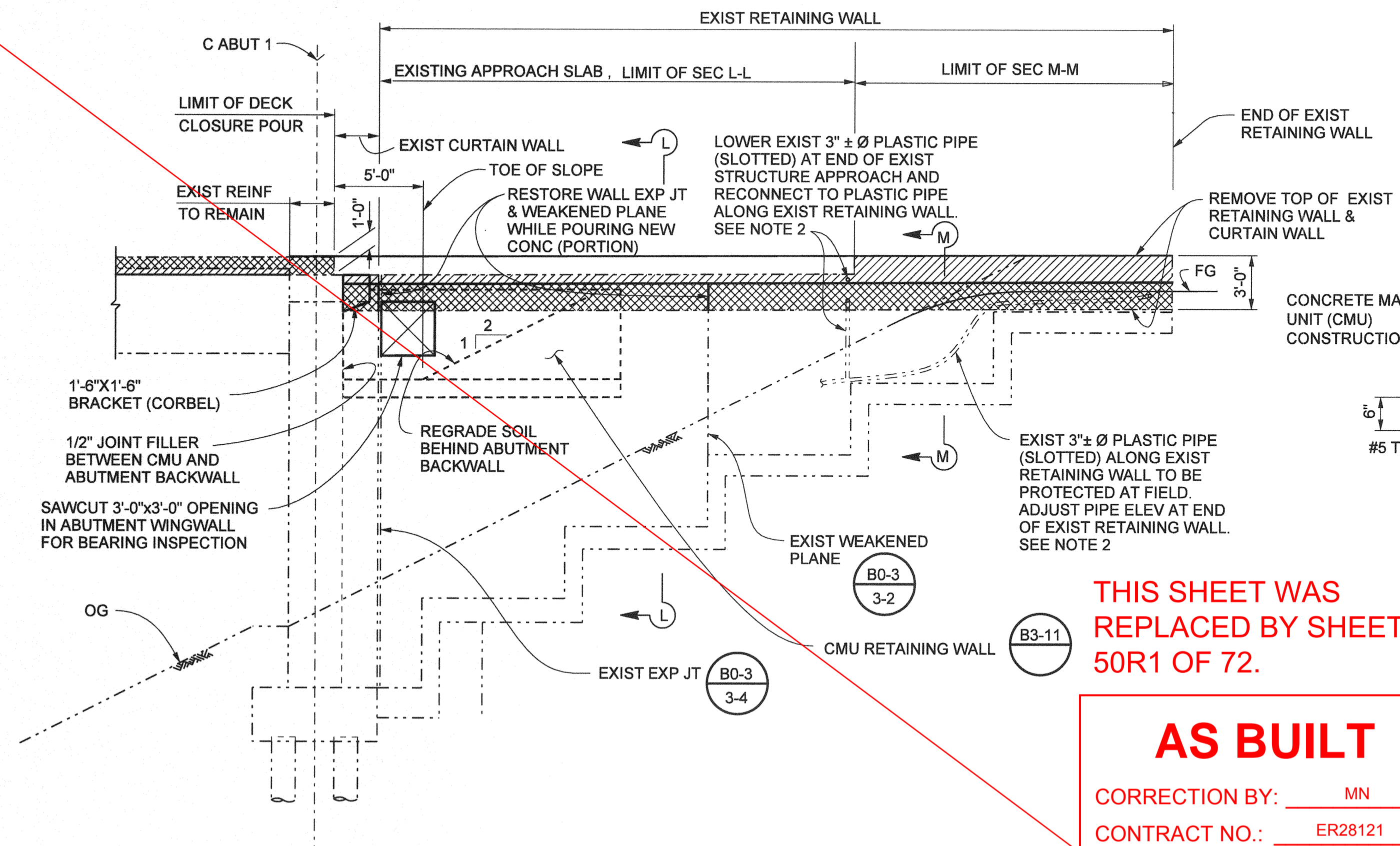
ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT		ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)		ABUTMENT 1 DETAILS NO. 1	
DESIGNED	J. WANG	CHECKED	F. JEANG	SHEET 49 OF 72	
DRAWN	J. WANG	DATE	9/18/08	DRAWING NO.	
SCALE		AS SHOWN		DATE	
NO. C 43559		EXP. 5-30-08		DATE	
Yung-Nien Wang		RCE C 43559 (EXP. 6-30-06)		DATE	

PLANS PREPARED BY:
HNTB
HNTB Corporation
200 E. SANDPOINT AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

Date Plotted:

File Name: J:\34092\CADD\Struct\sheet\antonio\pkwy-S-08.dgn

Border sheet last modified 08-Nov-1999



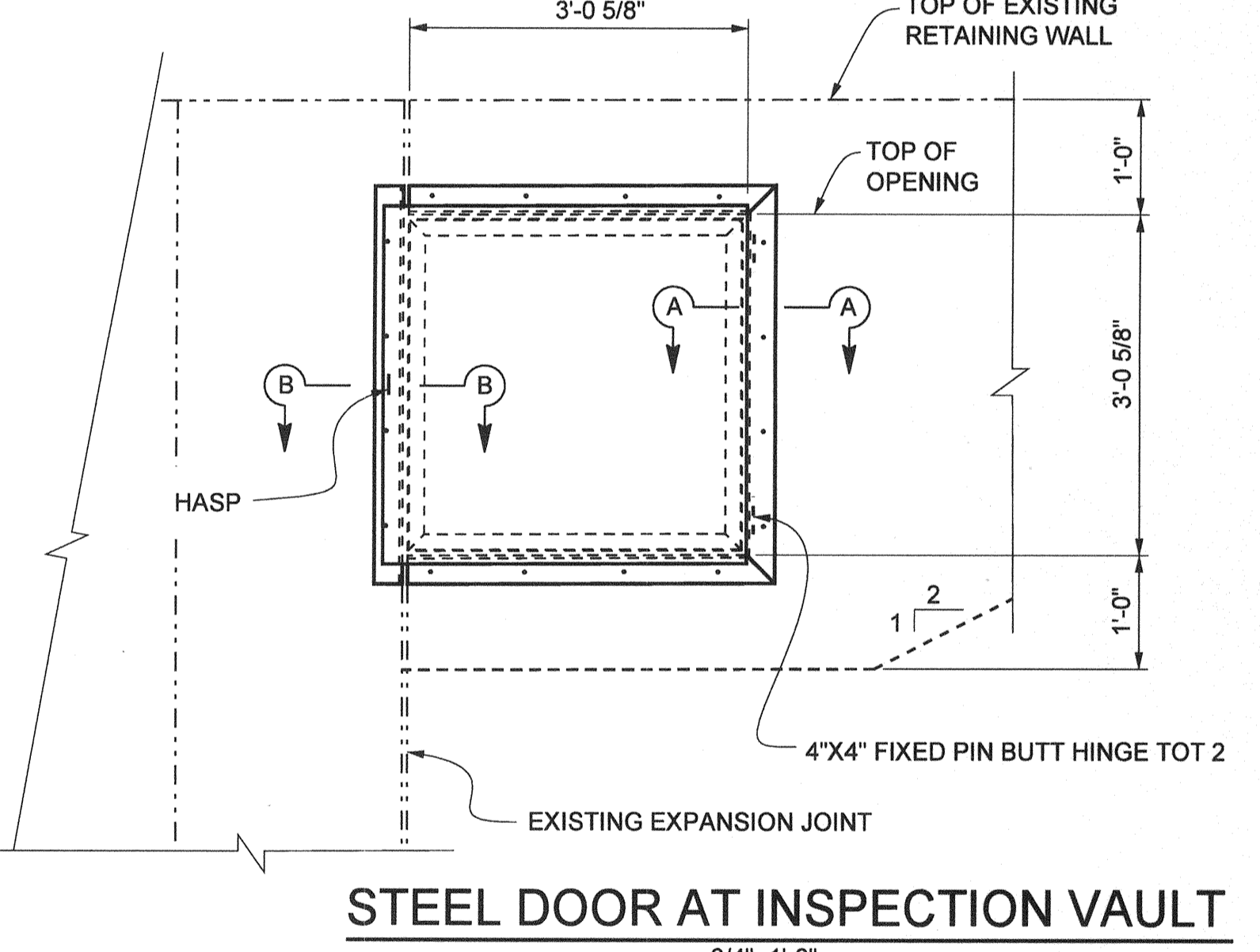
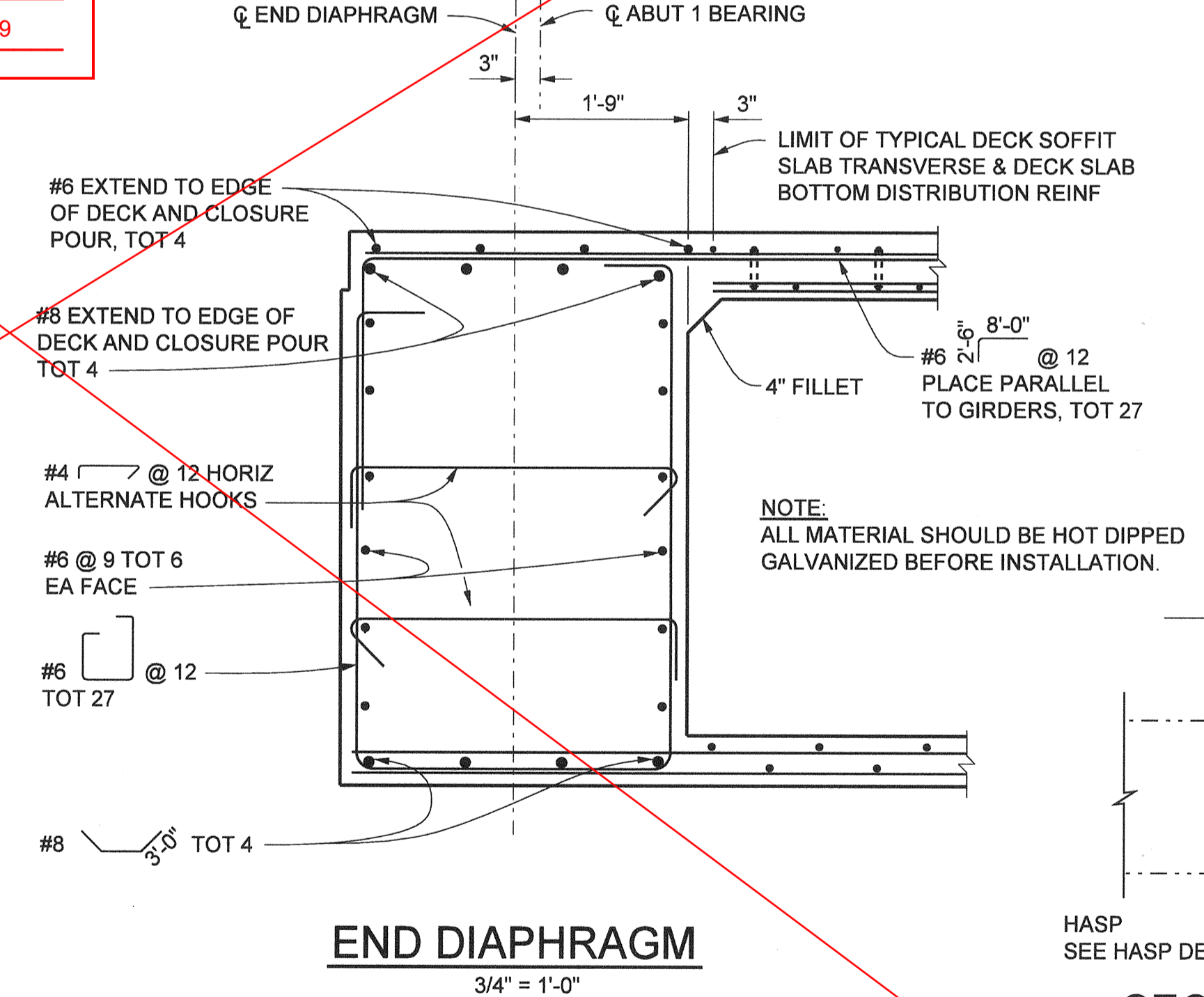
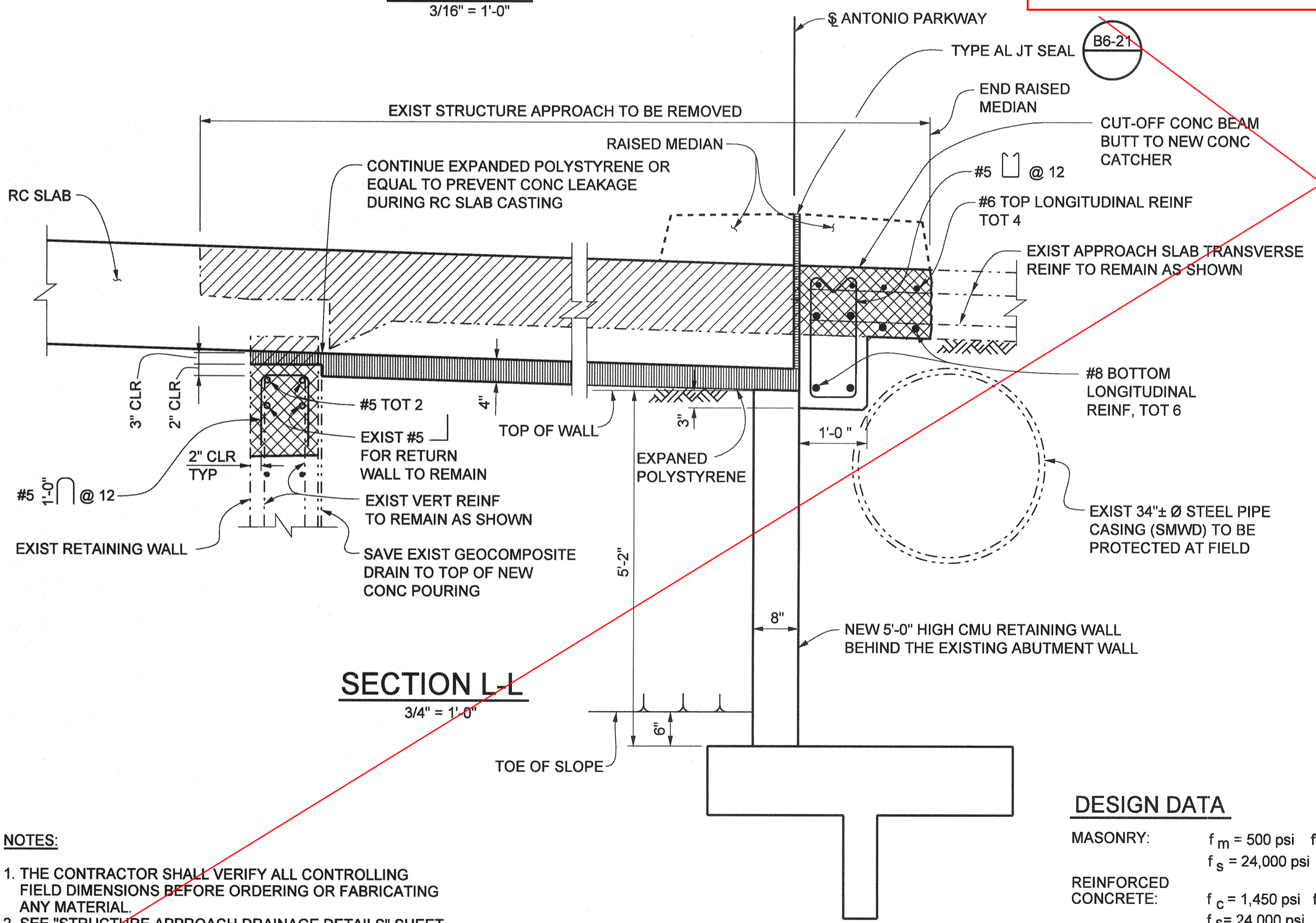
**THIS SHEET WAS
REPLACED BY SHEET
50R1 OF 72.**

AS BUILT

CORRECTION BY: MN

CONTRACT NO.: ER28121

DATE: 12/30/2009



- NOTES:**
1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
 2. SEE "STRUCTURE APPROACH DRAINAGE DETAILS" SHEET FOR MORE APPROACH DRAINAGE INFORMATION.
 3. FOR DECK CHANNEL DRAIN INFORMATION, SEE "DECK DRAIN LAYOUT" SHEET.
 4. ALL MATERIAL SHOULD BE HOT DIPPED GALVANIZED BEFORE INSTALLATION.

DESIGN DATA

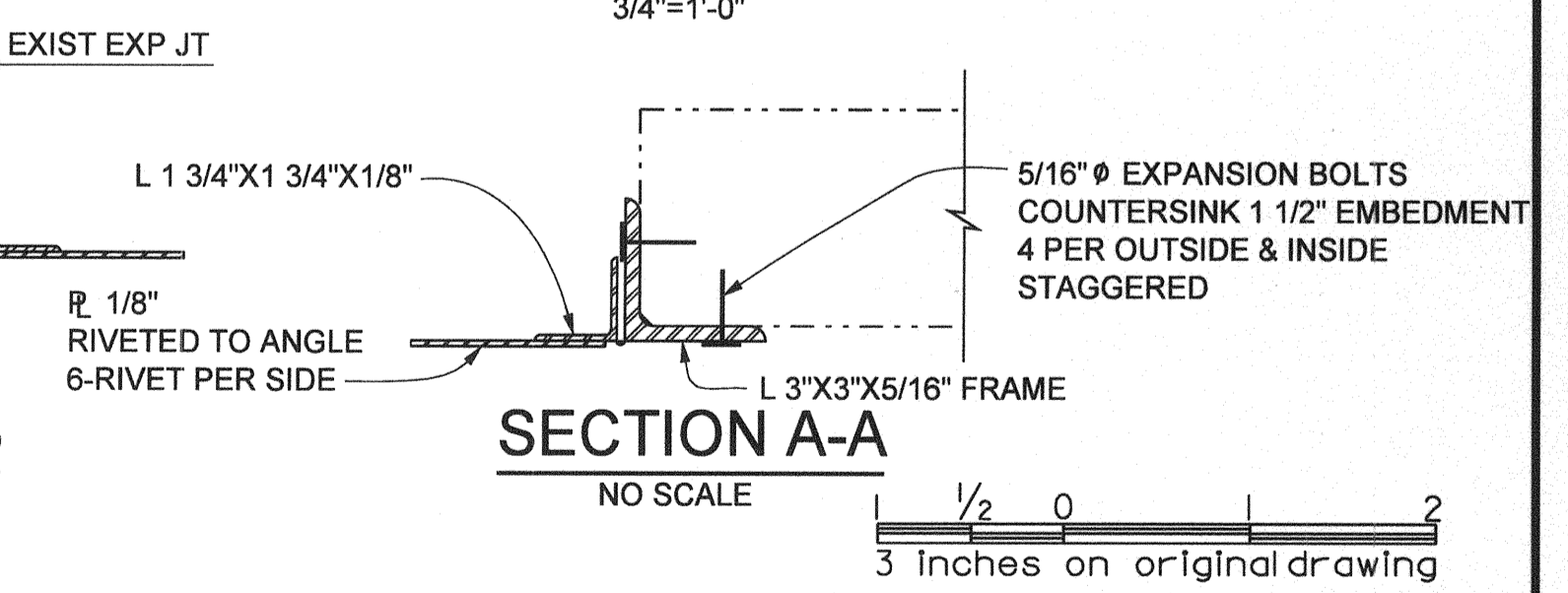
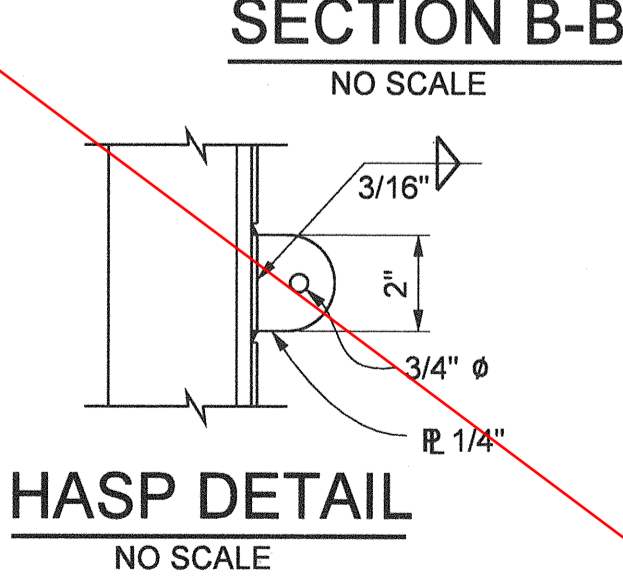
MASONRY: $f_m = 500 \text{ psi}$ $f_m = 1,500 \text{ psi}$
 $f_s = 24,000 \text{ psi}$ $n = 20$

REINFORCED CONCRETE: $f_c = 1,450 \text{ psi}$ $f_c = 3,600 \text{ psi}$
 $f_s = 24,000 \text{ psi}$ $n = 10$

EARTH = 120 lb/cf³
 SURCHARGE 3'-6" EQUIVALENT SOIL HEIGHT.

MINIMUM ALLOCABLE SOIL BEARING CAPACITY OF FOUNDATION MATERIAL = 2.0 k/sf

- LEGEND**
- BRIDGE REMOVAL (PORTION)
 - CLOSURE POUR OR NEW CONC WALL
 - REMOVE & REPLACE CONCRETE
 - EXPANDED POLYSTYRENE
 - DENOTES EXISTING STRUCTURE
 - DENOTES NEW STRUCTURE

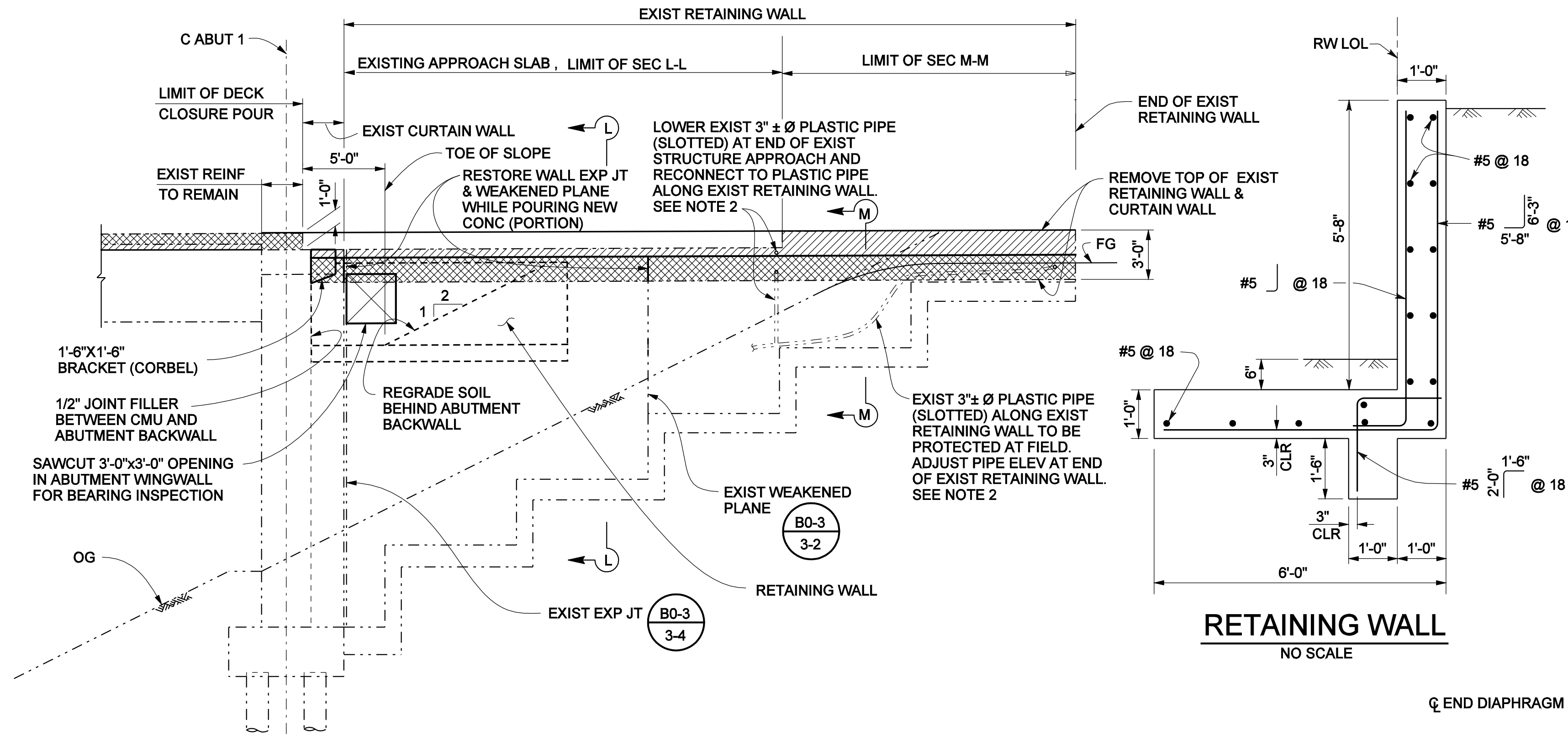


PLANS PREPARED BY:

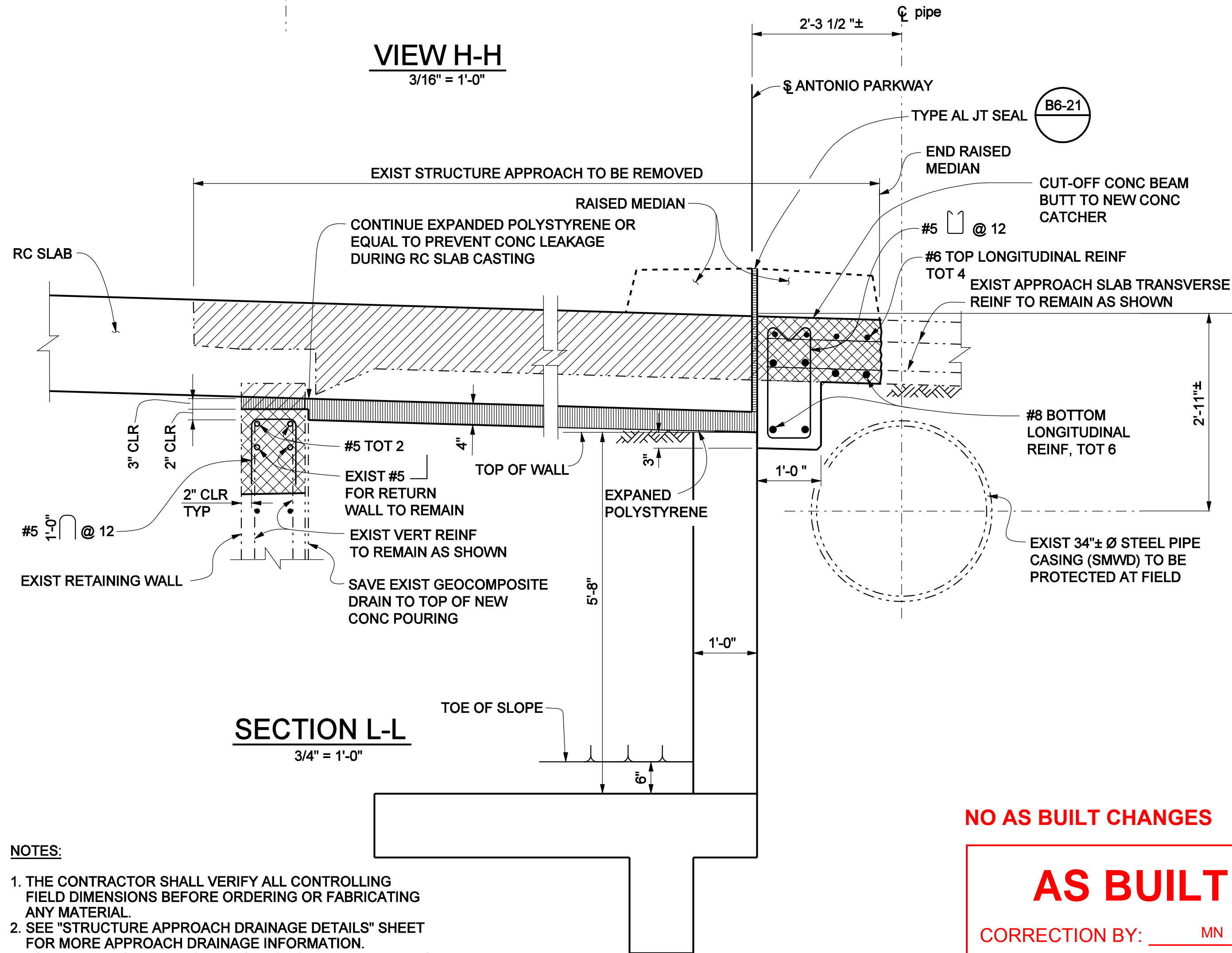
HNTB

HNTB Corporation
 200 E. SANDPOINT AVENUE, SUITE 200
 SANTA ANA, CALIFORNIA 92707
 TEL (714) 460-1600 FAX (714) 460-1610

ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)	
ABUTMENT 1 DETAILS NO. 2	
DESIGNED: <u>J. WANG</u>	CHECKED: <u>F. JEANG</u>
DRAWN: <u>N. MORANES</u>	DATE: <u>9/19/08</u>
SCALE: <u>AS SHOWN</u>	DRAWING NO.: <u>50 OF 72</u>



VIEW H-H
3/16" = 1'-0"



SECTION L-L
3/4" = 1'-0"

NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
2. SEE "STRUCTURE APPROACH DRAINAGE DETAILS" SHEET FOR MORE APPROACH DRAINAGE INFORMATION.
3. FOR DECK CHANNEL DRAIN INFORMATION, SEE "DECK DRAIN LAYOUT" SHEET.
4. ALL MATERIAL SHOULD BE HOT DIPPED GALVANIZED BEFORE INSTALLATION

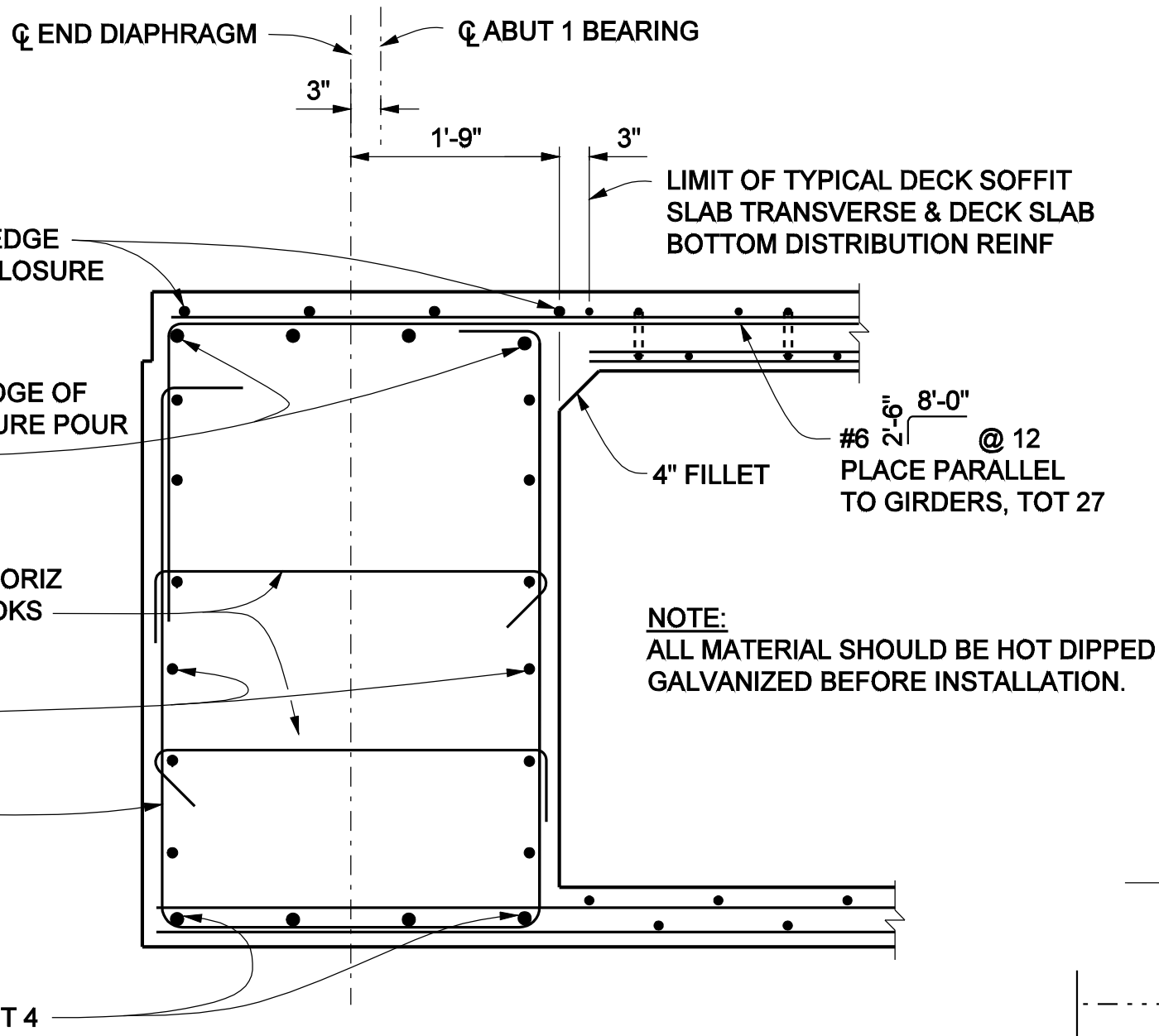
NO AS BUILT CHANGES

AS BUILT

CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009

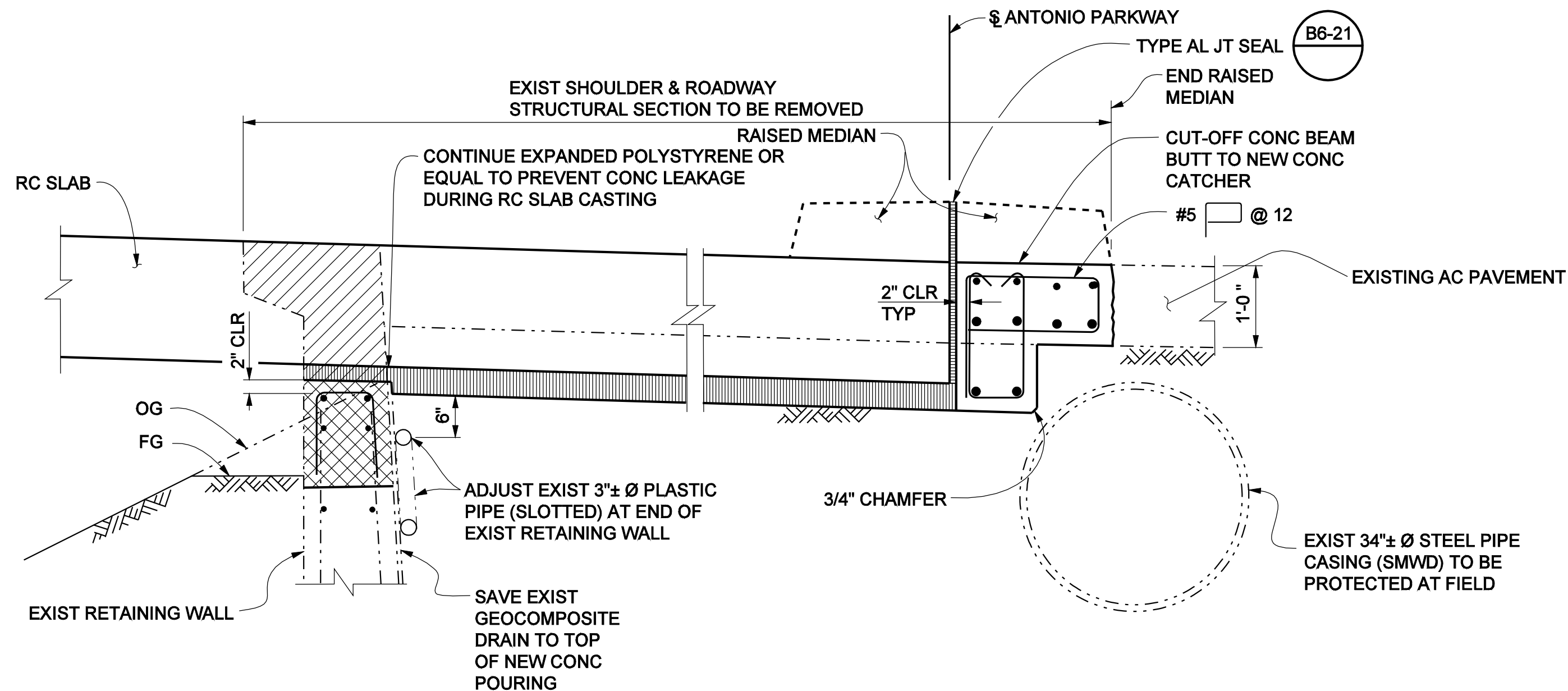
LEGEND

- BRIDGE REMOVAL (PORTION)
- CLOSURE POUR OR NEW CONC WALL
- REMOVE & REPLACE CONCRETE
- EXPANDED POLYSTYRENE
- DENOTES EXISTING STRUCTURE
- DENOTES NEW STRUCTURE



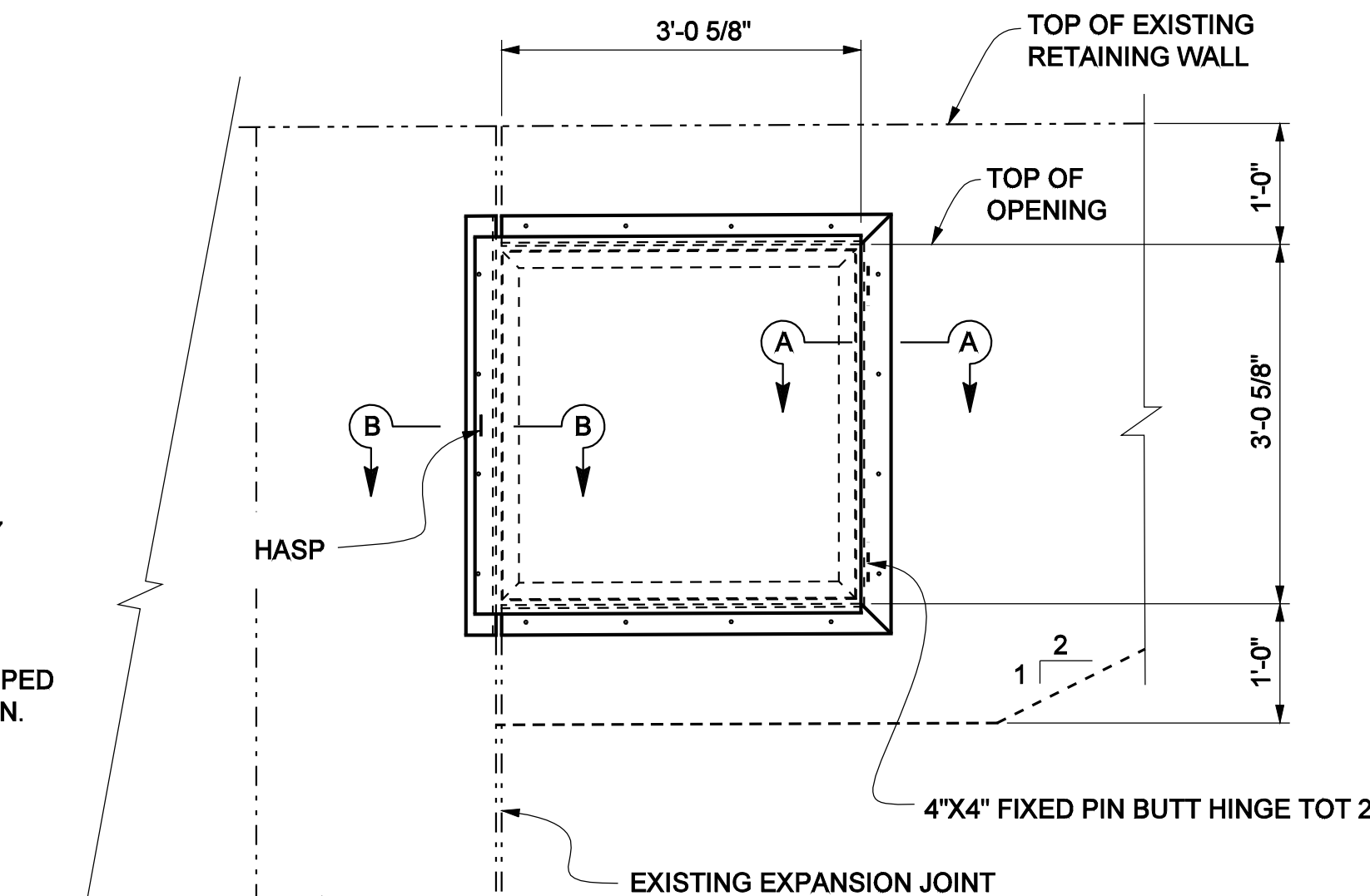
END DIAPHRAGM
3/4" = 1'-0"

THIS SHEET REPLACES SHEET NO.50 OF 72 OF PLAN APPROVED OCTOBER 2006

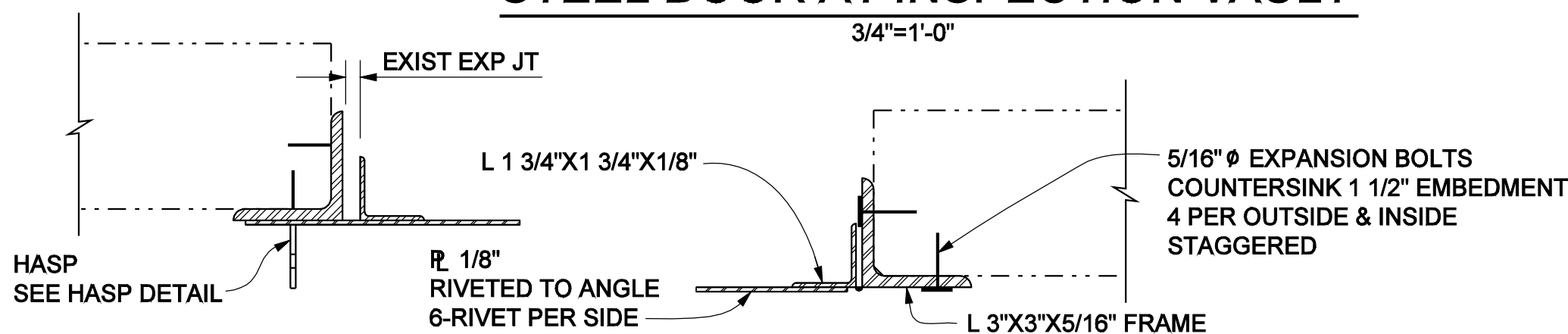


SECTION M-M
3/4" = 1'-0"

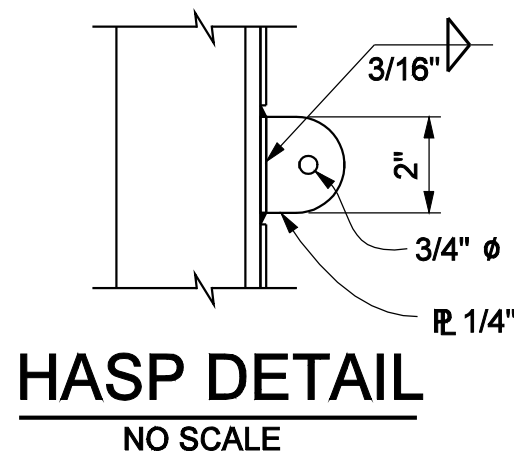
SEE SECTION L-L FOR DETAILS NOT SHOWN



STEEL DOOR AT INSPECTION VAULT
3/4" = 1'-0"



SECTION B-B
NO SCALE

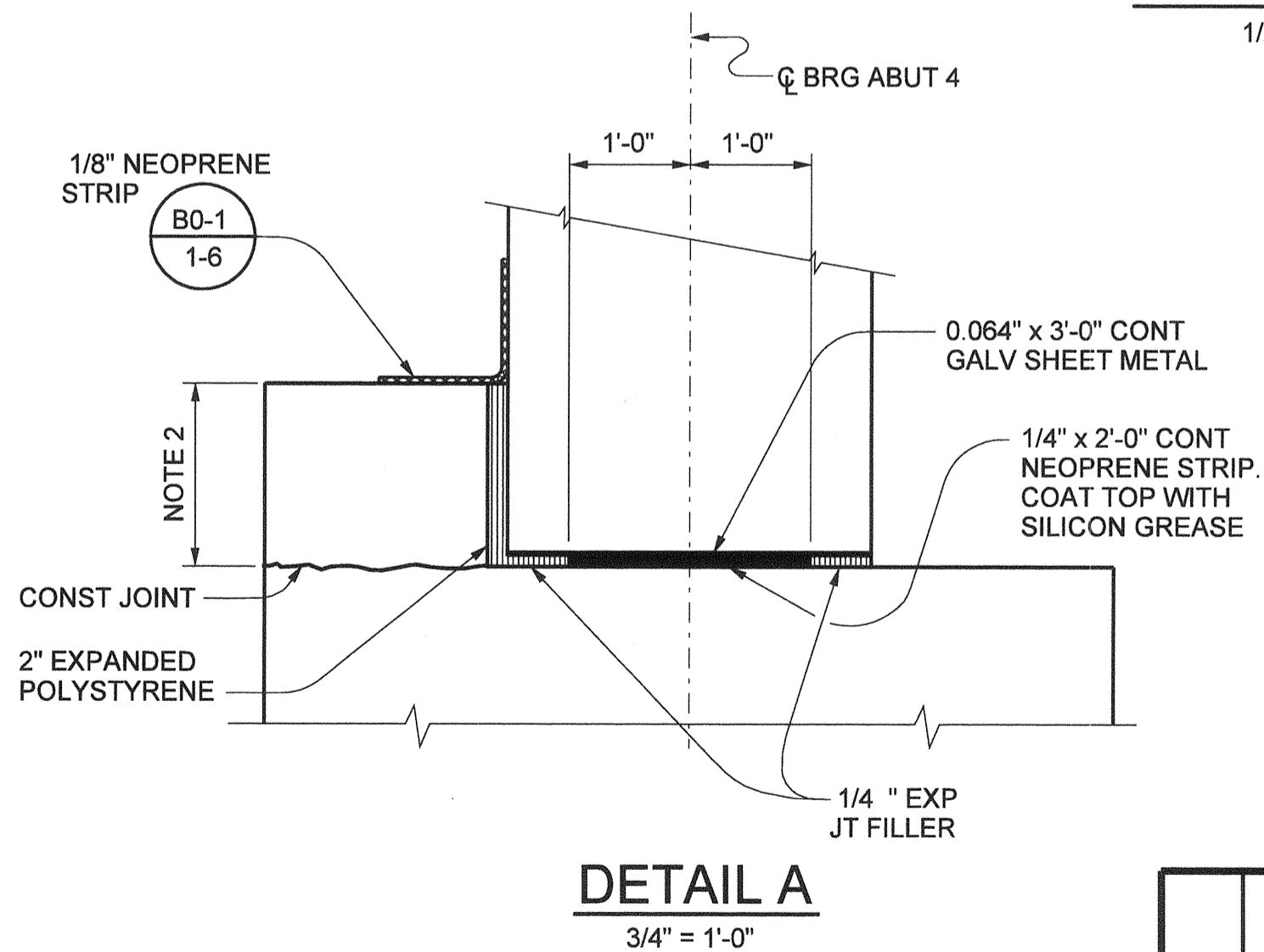
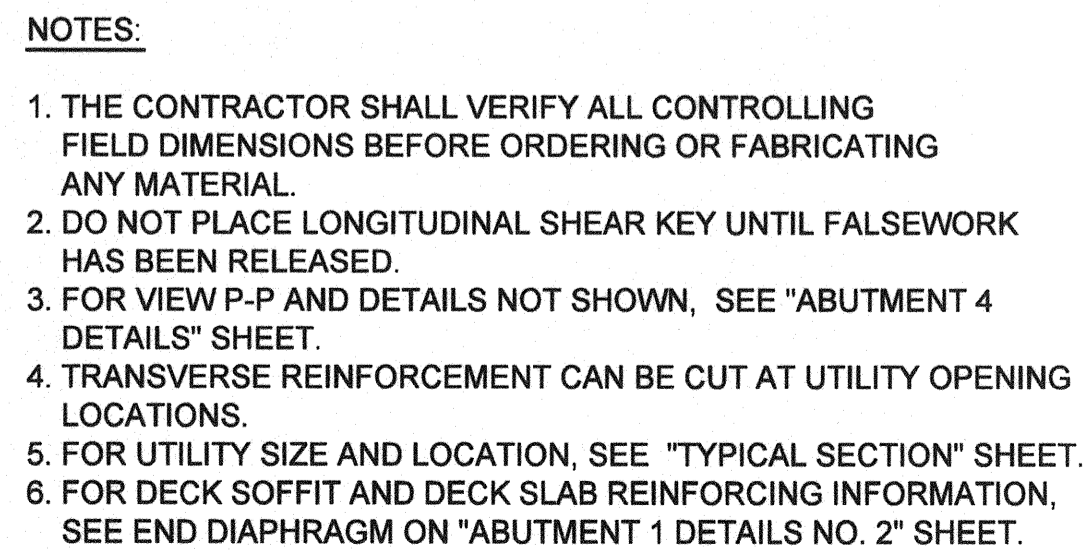


PLANS PREPARED BY:
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

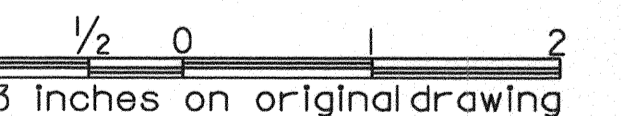
ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)	
ABUTMENT 1 DETAILS NO. 2	
DESIGNED: J. WANG	SHEET 50R1 OF 72
DRAWN: N. MORALES	CHECKED: F. JEANG
SCALE: AS SHOWN	DATE: 9/19/08
DRAWING NO.	

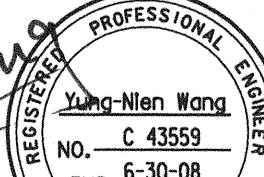
Date Plotted:

File Name: J:\34092\CADD\Strcsheets\antoniopkwy-S-09R1.dgn



CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009



ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT				ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)
MARK	DATE	DESCRIPTION		
REVISIONS				
PREPARED UNDER RESPONSIBLE CHARGE OF:				
				
Yung-Nien Wang RCE C 43559 (EXP. 6-30-06)		DATE		
DESIGNED <u>J. WANG</u>		SHEET		
DRAWN <u>N. MORALES</u>		CHECKED <u>F. JIANG</u>		51
AS SCALE	DATE 9/19/06	DRAWING NO.		
		OF 72		

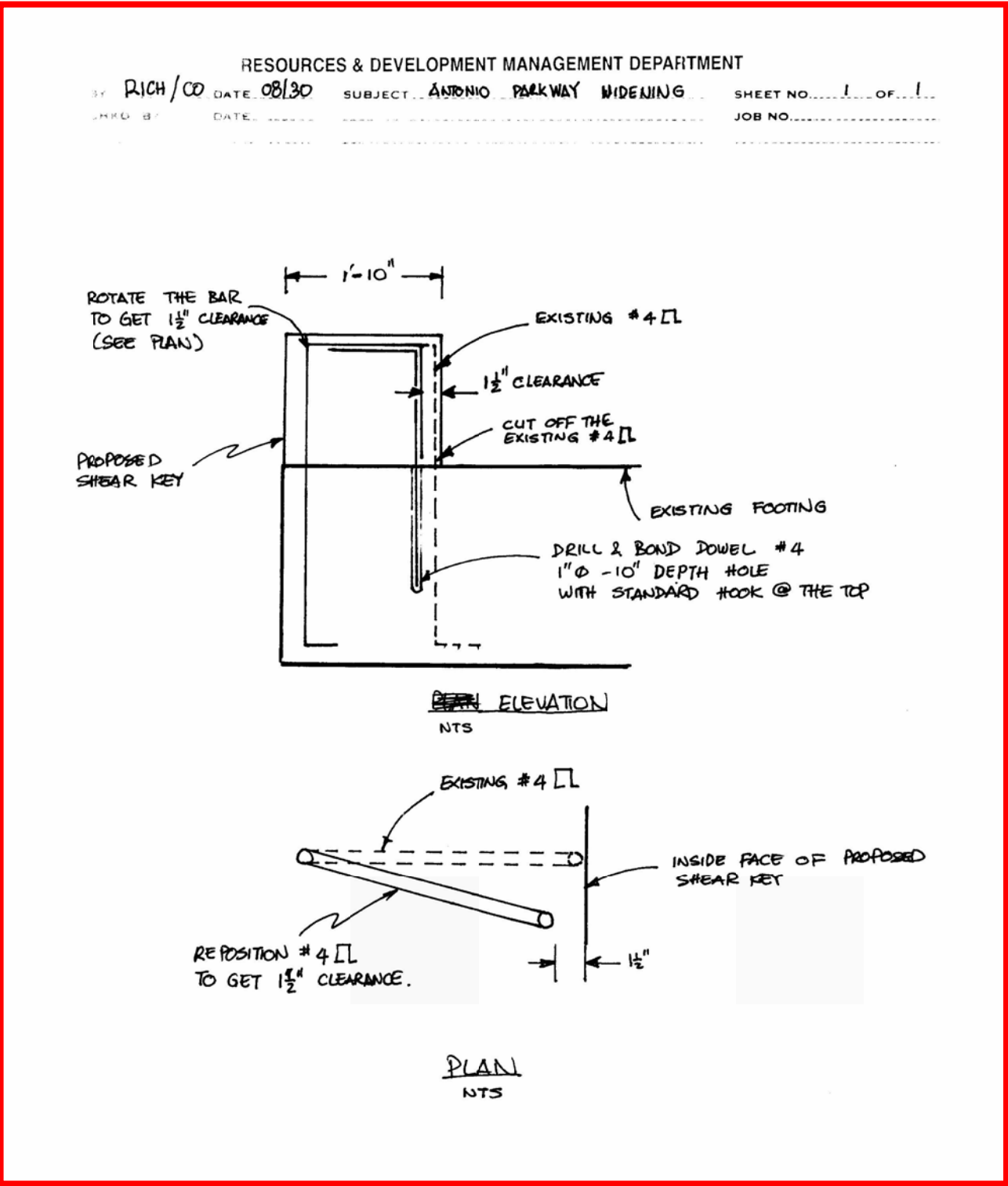
PLANS PREPARED BY:

HNTB

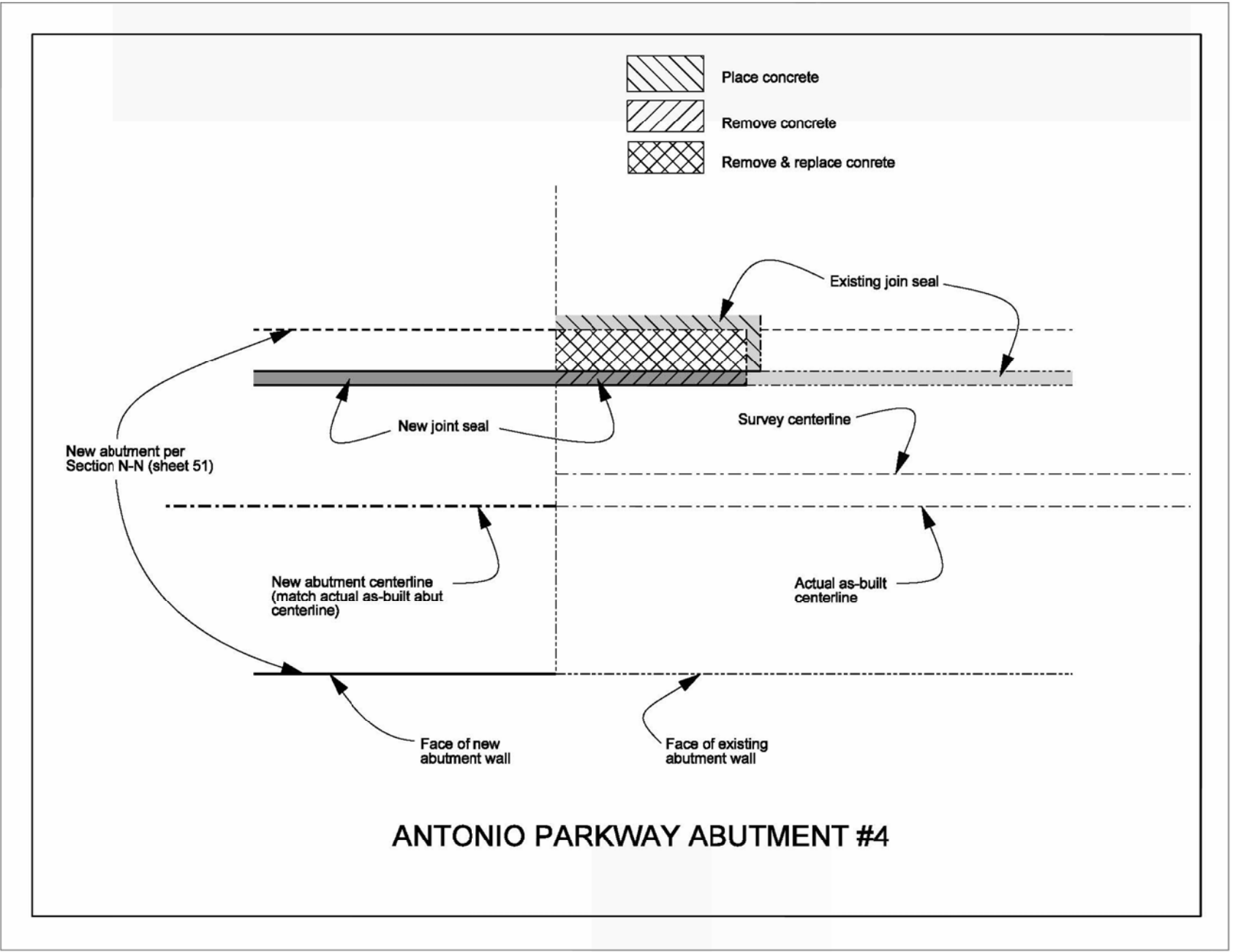
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

Date Plotted:

File Name: J:\34092\CADD\Strc\sheets\antoniopkwy-S-10.dgn



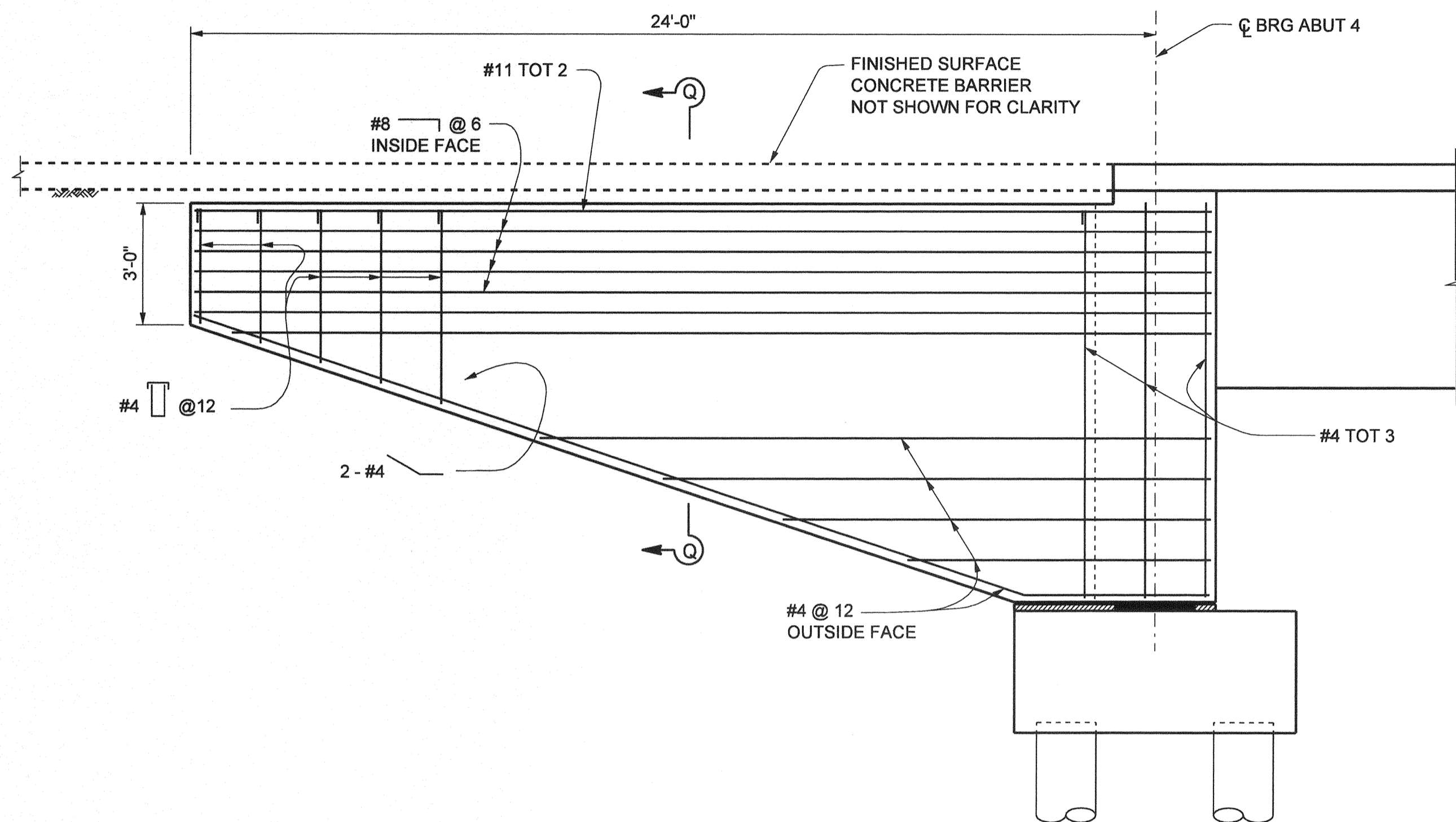
ABUT 4 SHEAR KEY REINFORCEMENT



ABUTMENT 4 JOINT SEAL

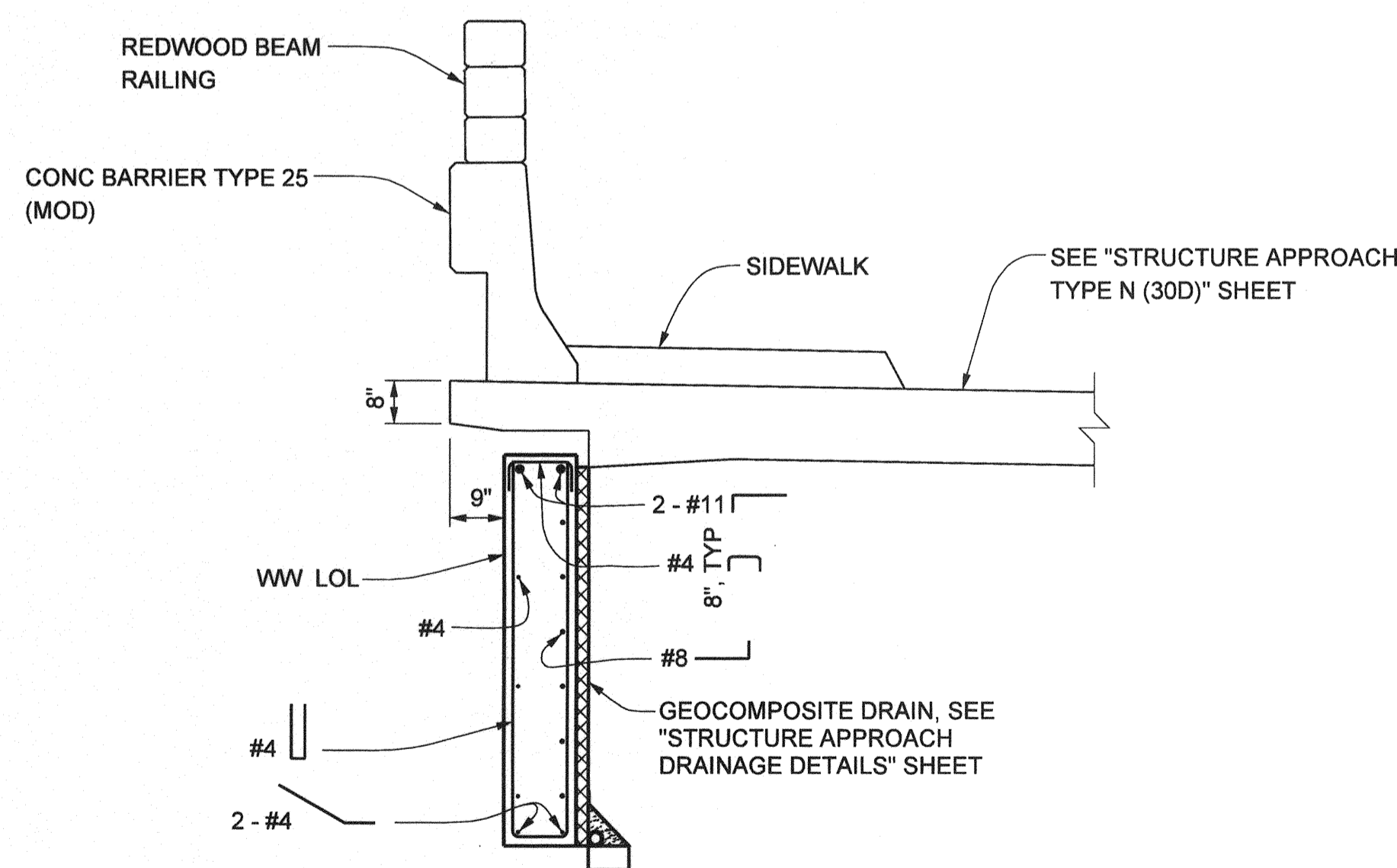
AS BUILT
CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009

PLAN 1" =		ORANGE COUNTY PUBLIC FACILITIES AND RESOURCES DEPARTMENT	
		ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)	
		ABUTMENT 4 LAYOUT	
MARK	DATE	DESCRIPTION	
REVISIONS			
PREPARED UNDER RESPONSIBLE CHARGE OF:			
DESIGNED	DRAWN		CHECKED
SCALE AS SHOWN	DATE	DRAWING NO.	
SHEET 51S OF 72			



WINGWALL ELEVATION

3/8" = 1'-0"



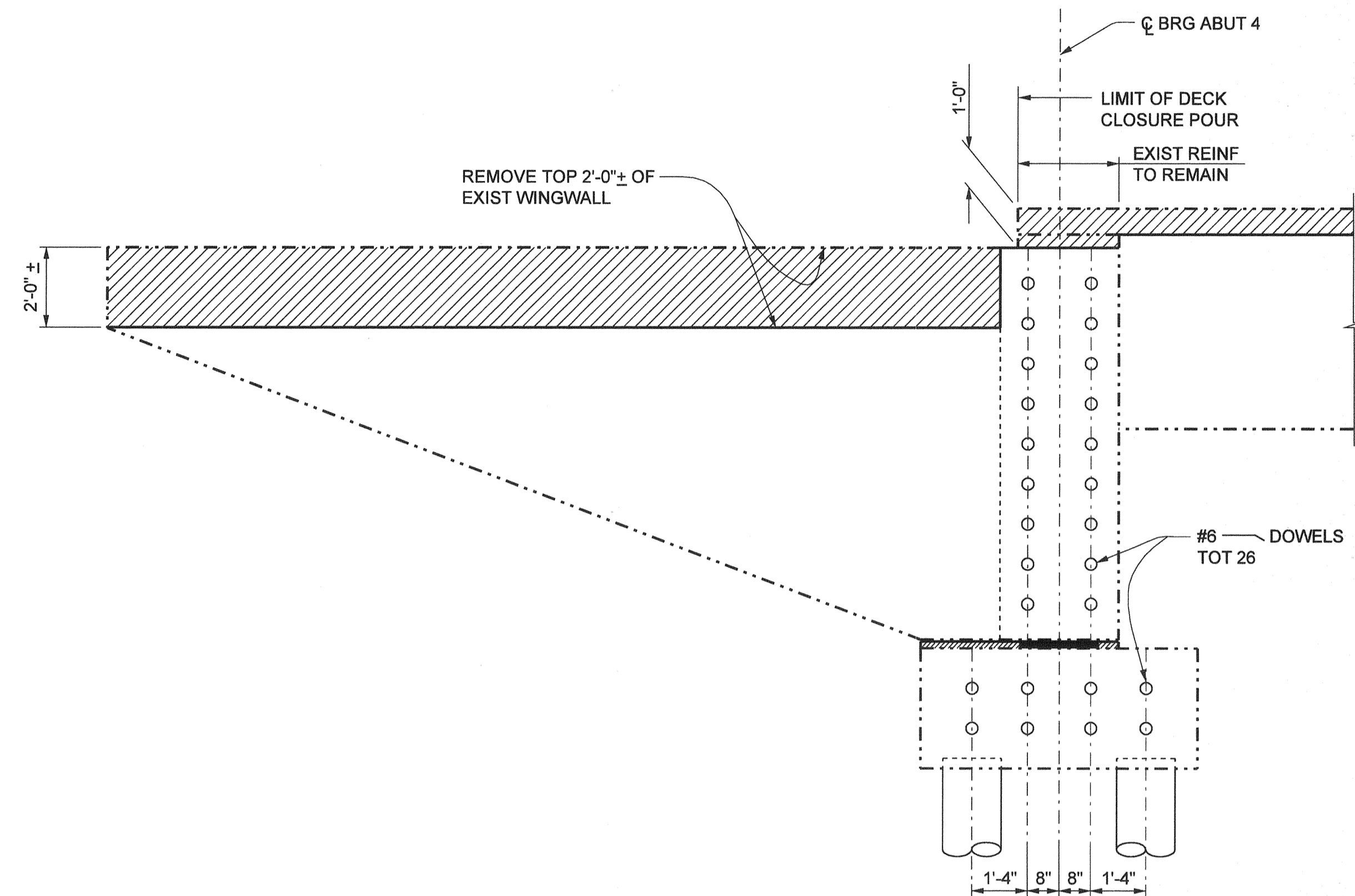
SECTION Q-Q

1/2" = 1'-0"

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

LEGEND

- BRIDGE REMOVAL (PORTION)
- DENOTES EXISTING STRUCTURE
- DENOTES NEW STRUCTURE



VIEW P-P

3/8" = 1'-0"

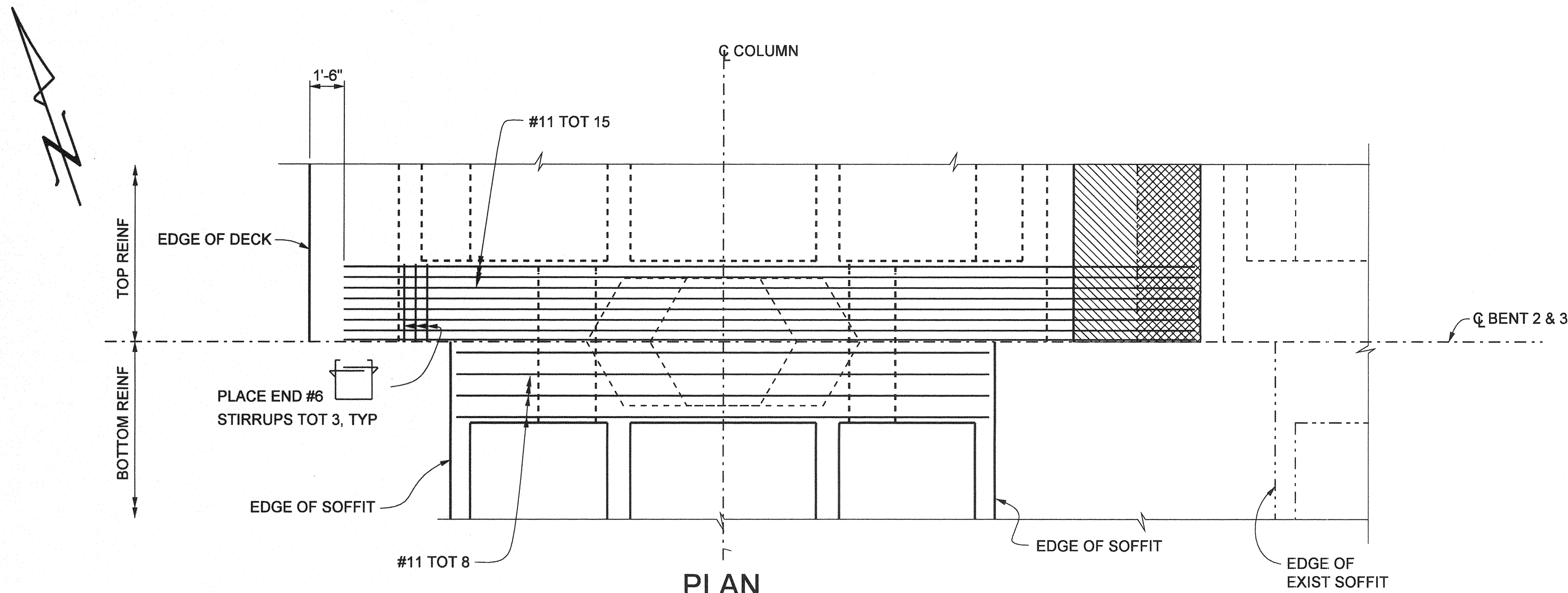
NO AS BUILT CHANGES

AS BUILT

CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009

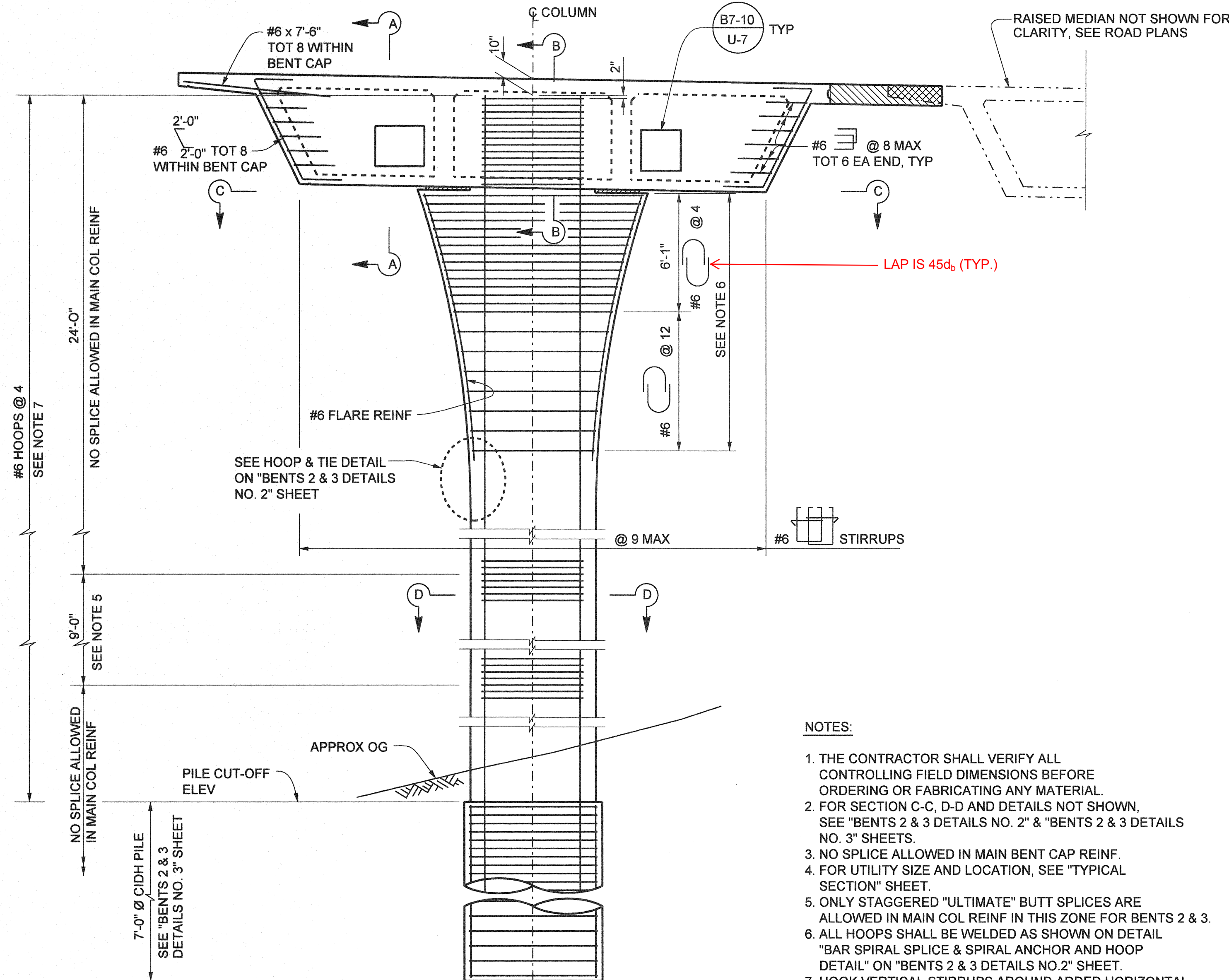
PLANS PREPARED BY: **HNTB**
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT											
ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)											
ABUTMENT 4 DETAILS											
DESIGNED <u>J. WANG</u>	CHECKED <u>F. JEANG</u>	SHEET 52									
DRAWN <u>J.A. WANG</u>	DATE <u>9/19/08</u>	DRAWING NO. <u>OF 72</u>									
<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>MARK</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td colspan="3">PREPARED UNDER RESPONSIBLE CHARGE OF:</td> </tr> <tr> <td colspan="3"> </td> </tr> </tbody> </table>			MARK	DATE	DESCRIPTION	PREPARED UNDER RESPONSIBLE CHARGE OF:					
MARK	DATE	DESCRIPTION									
PREPARED UNDER RESPONSIBLE CHARGE OF:											



PLAN

1/4" = 1'-0"



ELEVATION

1/4" = 1'-0"

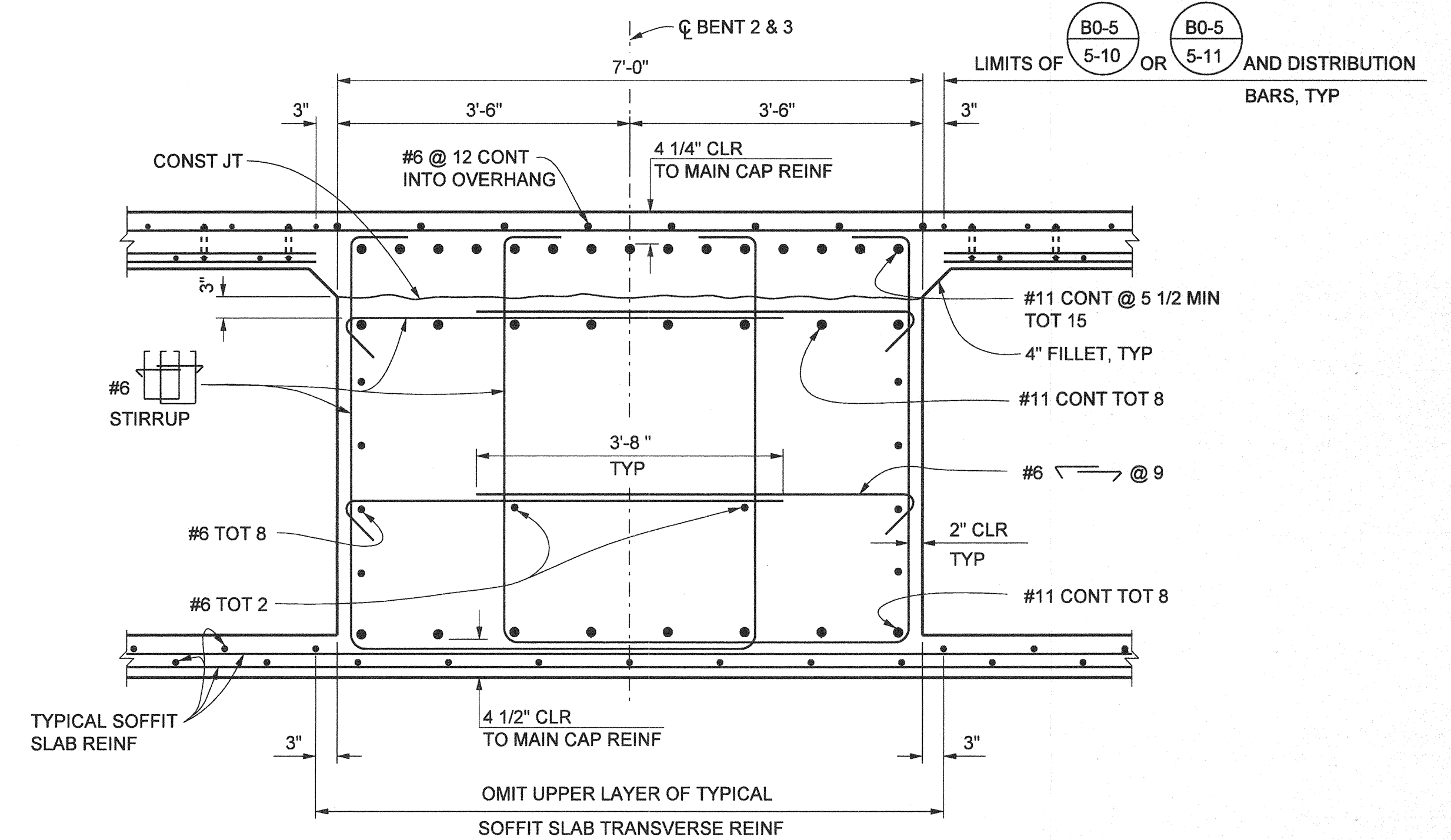
BENTS 2 & 3 SHOWN
ABOUT 1 SIMILAR FOR COLUMN & CIDH PILE

NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
2. FOR SECTION C-C, D-D AND DETAILS NOT SHOWN, SEE "BENTS 2 & 3 DETAILS NO. 2" & "BENTS 2 & 3 DETAILS NO. 3" SHEETS.
3. NO SPLICE ALLOWED IN MAIN BENT CAP REINF.
4. FOR UTILITY SIZE AND LOCATION, SEE "TYPICAL SECTION" SHEET.
5. ONLY STAGGERED "ULTIMATE" BUTT SPLICES ARE ALLOWED IN MAIN COL REINF IN THIS ZONE FOR BENTS 2 & 3.
6. ALL HOOPS SHALL BE WELDED AS SHOWN ON DETAIL "BAR SPIRAL SPLICE & SPIRAL ANCHOR AND HOOP DETAIL" ON "BENTS 2 & 3 DETAILS NO. 2" SHEET.
7. HOOK VERTICAL STIRRUPS AROUND ADDED HORIZONTAL REINF AT THE TOP OF FUTURE UTILITY OPENING WHERE INTERFERENCE WITH THE FUTURE UTILITY OPENING OCCURS.

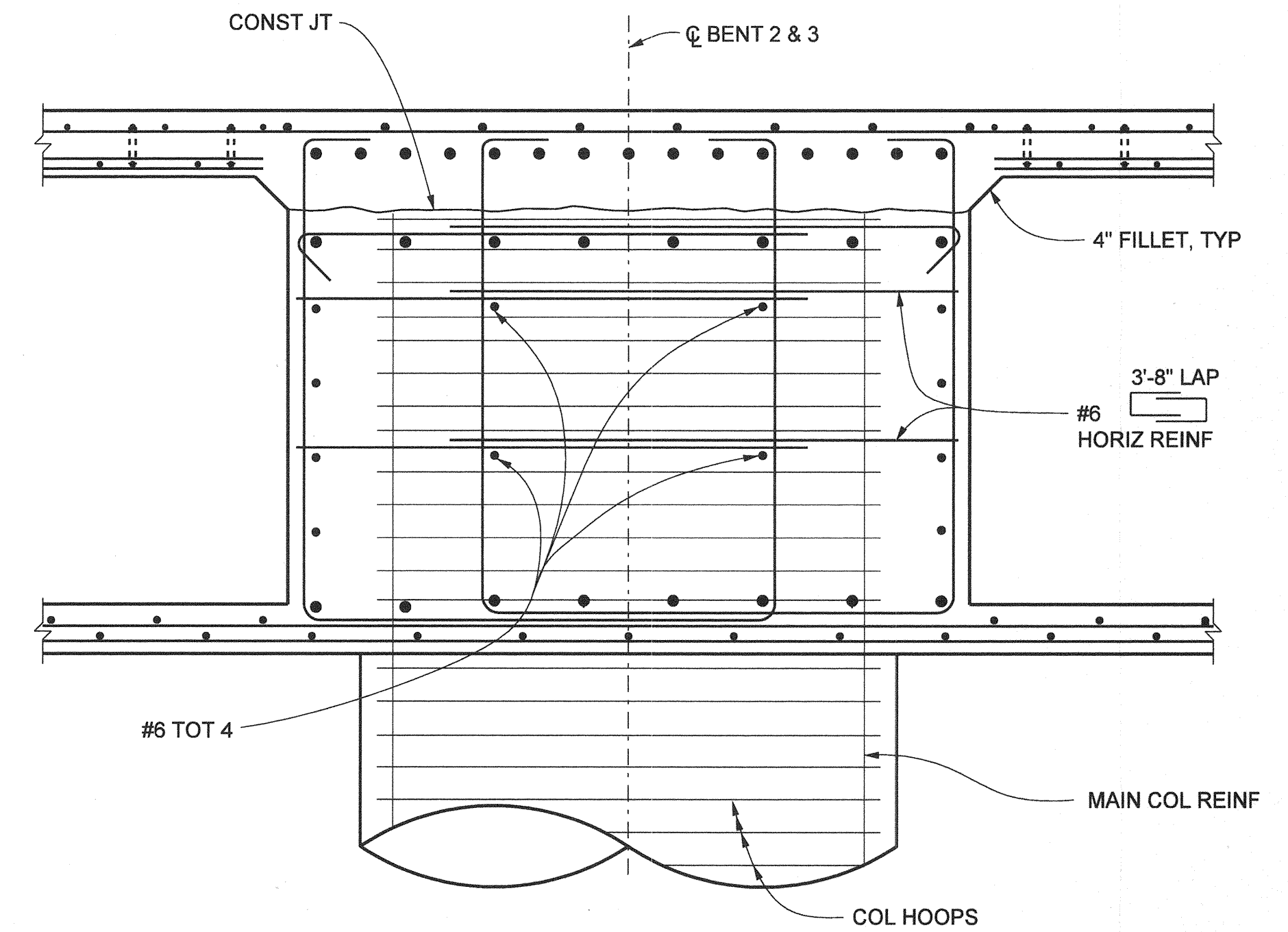
LEGEND

- BRIDGE REMOVAL (PORTION)
- CLOSURE POUR
- DENOTES EXISTING STRUCTURE
- DENOTES NEW STRUCTURE



SECTION A-A

3/4" = 1'-0"



SECTION B-B

3/4" = 1'-0"

SEE SECTION A-A THIS SHEET
FOR MORE REINF INFORMATION

AS BUILT

CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009

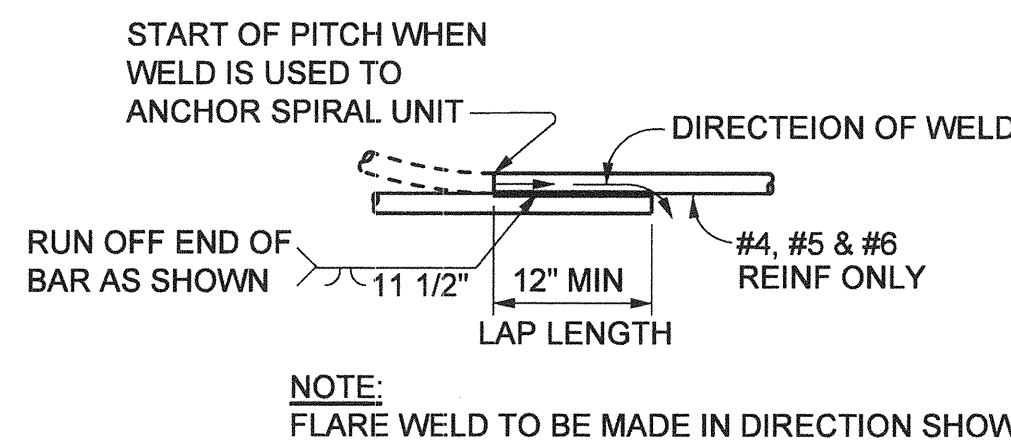
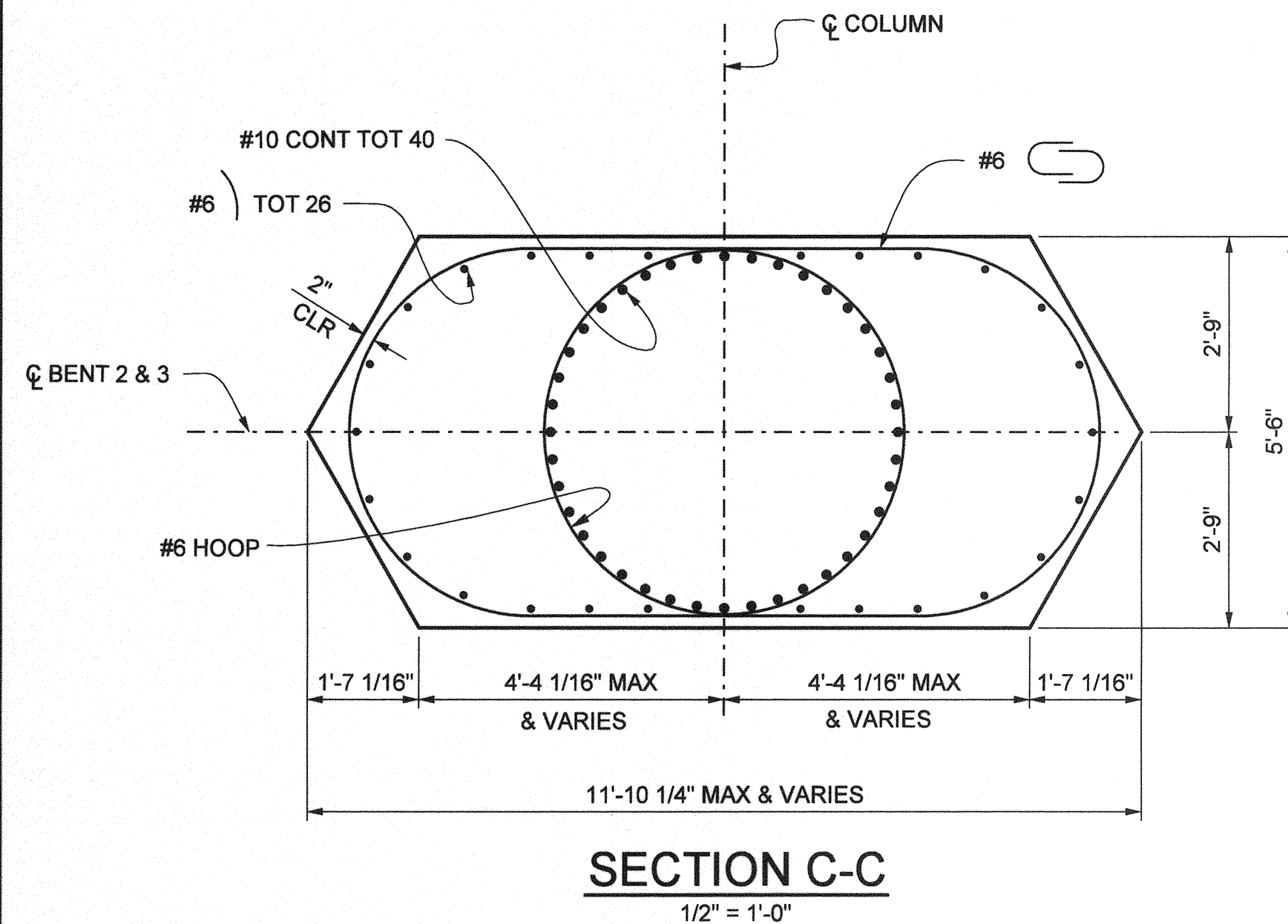
PLANS PREPARED BY: **HNTB**
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT		ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)		BENTS 2 & 3 DETAILS NO. 1	
DESIGNED	J. WANG	CHECKED	F. JEANG	DRAWN	L. ZHANG
SCALE	AS SHOWN	DATE	9/19/08	DRAWING NO.	
SHEET				53	
OF 72					

Date Plotted:

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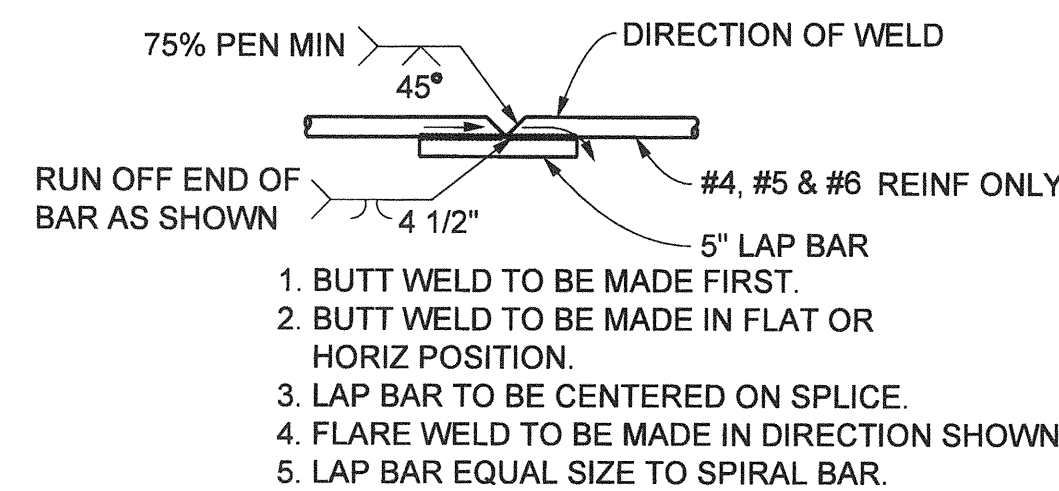
Border sheet last modified 08-Nov-1999



WELDED LAP SPLICE AND ANCHOR

SAME SIZE, SPACING AND MATERIAL AS SPIRAL SHOWN ON PLANS
CJP

INDIVIDUAL HOOPS, MAKE CONTINUOUS WITH 100% PENETRATION WELDS, MAY BE SUBSTITUTED FOR SPIRALS

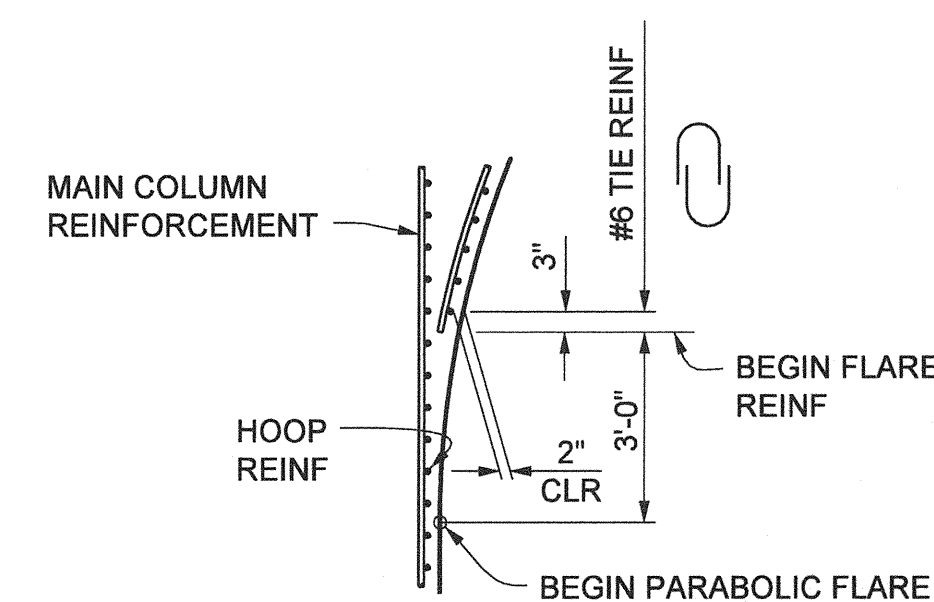
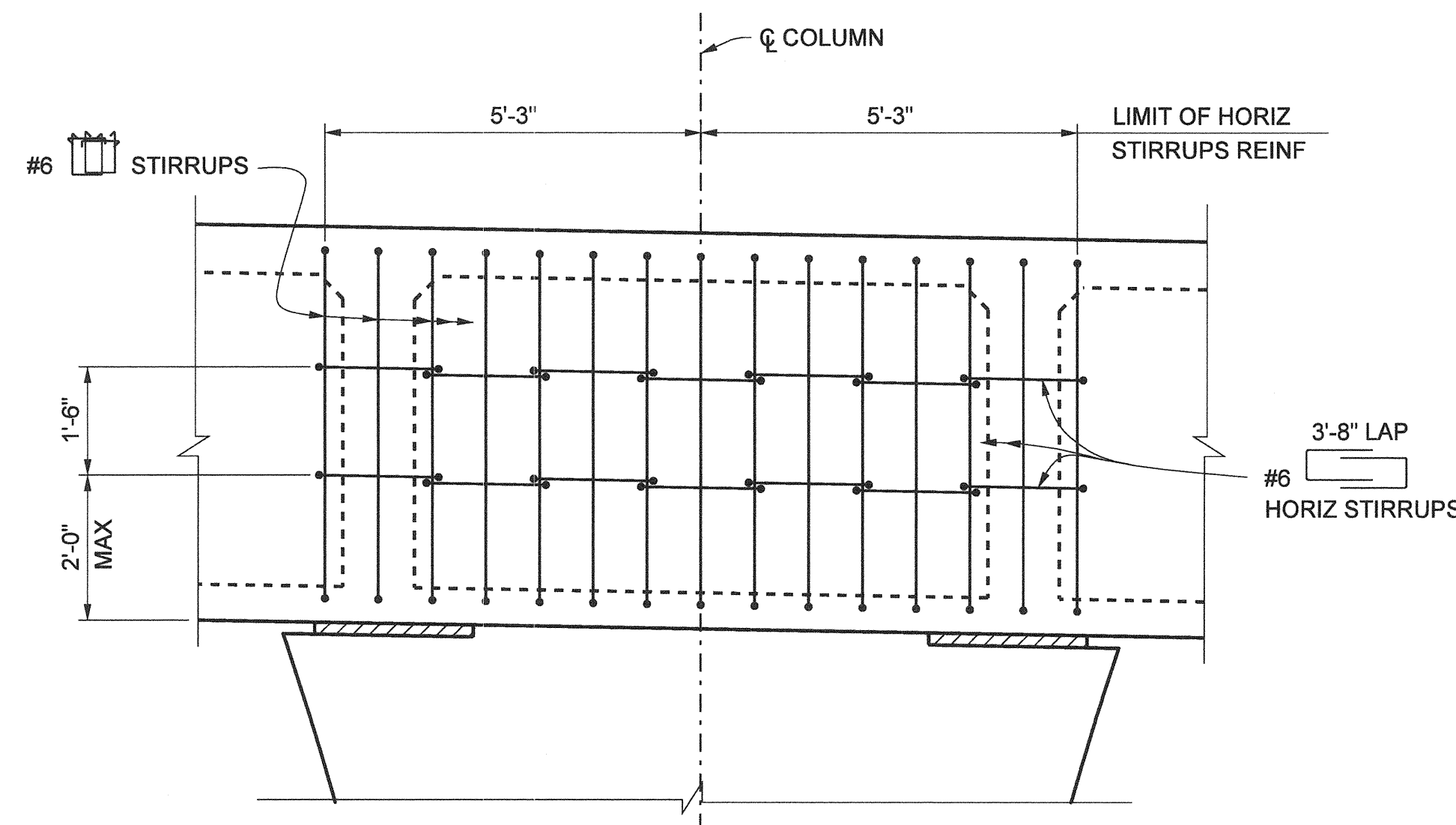


BUTT WELDED CONTINUOUS HOOP VEE GROOVE WELDED SPLICE

NOTE: SPIRALS FOR BENT W PILE AND HOOPS IN COLUMNS & PILE SHAFTS FOR ABUT 1, BENT 2 & 3 SHALL MEET THE "ULTIMATE SPLICE" SPECIFICATION AS STATED IN THE CONTRACT SPECIFICATIONS.

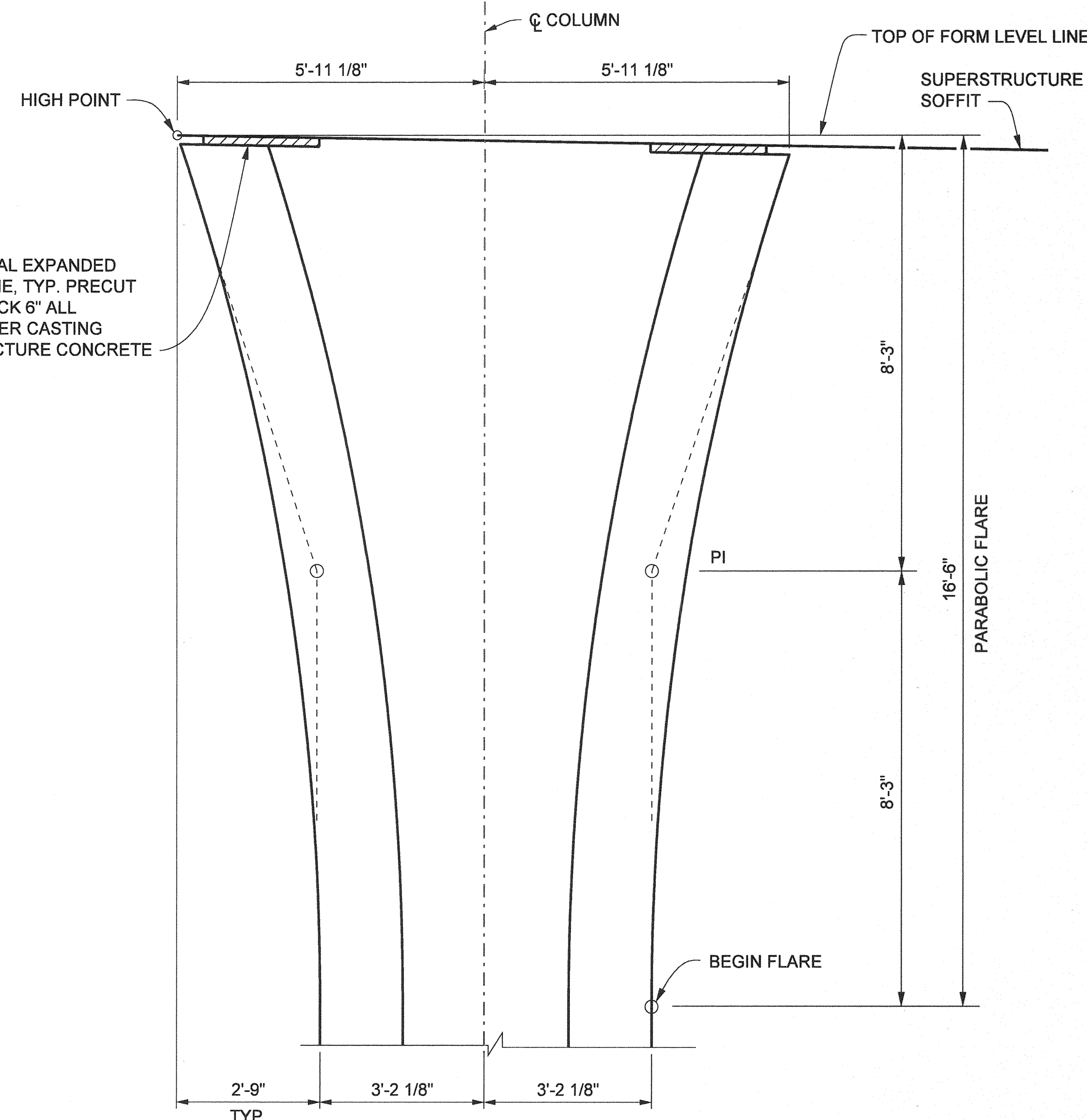
BAR SPIRAL SPLICE & SPIRAL ANCHOR AND HOOP DETAIL

NO SCALE



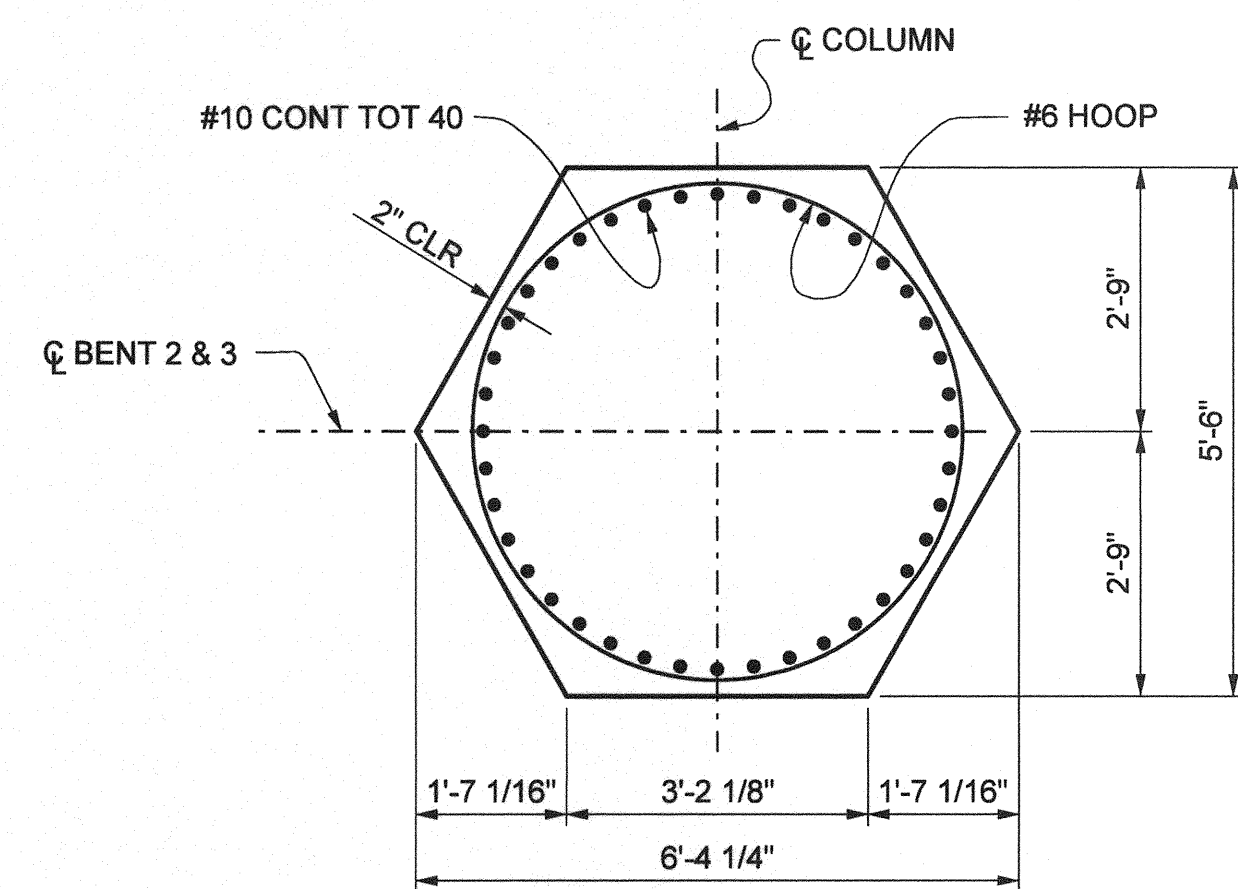
HOOP & TIE DETAIL

NO SCALE



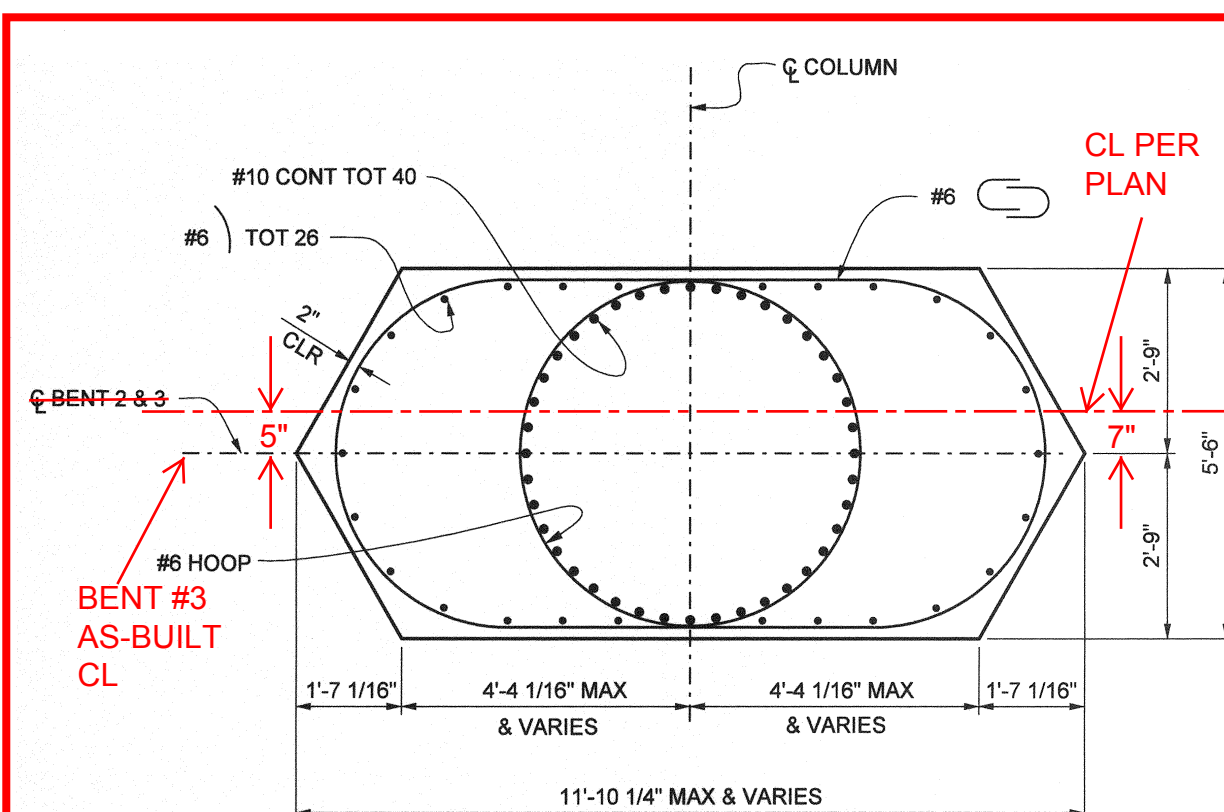
COLUMN GEOMETRICS

1/2" = 1'-0"



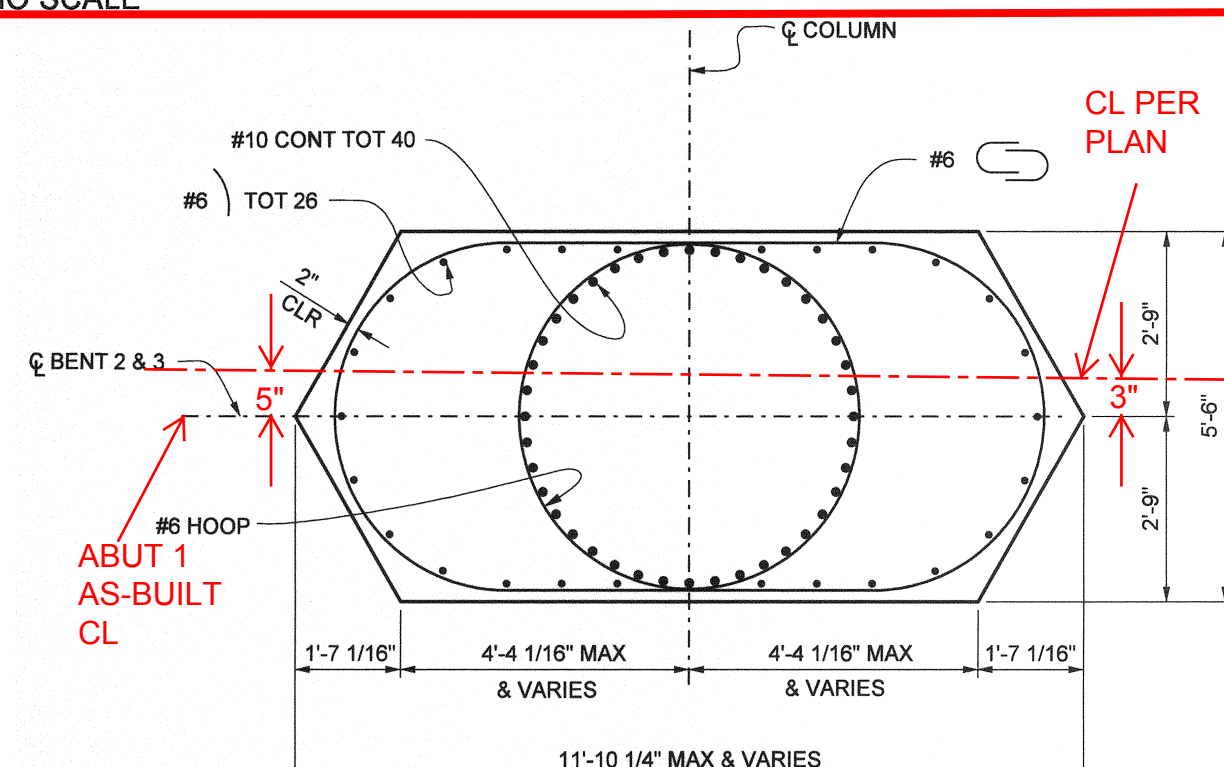
SECTION D-D

1/2" = 1'-0"



HORIZONTAL STIRRUP DETAIL

NO SCALE



AS BUILT

CORRECTION BY: MN

CONTRACT NO.: ER28121

DATE: 12/30/2009

PLANS PREPARED BY: HNTB Corporation
200 E. SANDPOINT AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT		ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)		BENTS 2 & 3 DETAILS NO. 2	
DESIGNED	J. WANG	CHECKED	E. JIANG	SHEET 54	
DRAWN	L. ZHANG	DATE	9/19/08	DRAWING NO.	
PREPARED UNDER RESPONSIBLE CHARGE OF:		Yung-Nien Wang RCE C 43559 (EXP. 6-30-06)		DATE 1/31/06	
REVISIONS		REVISIONS		DATE	
MARK	DATE	DESCRIPTION		DATE	

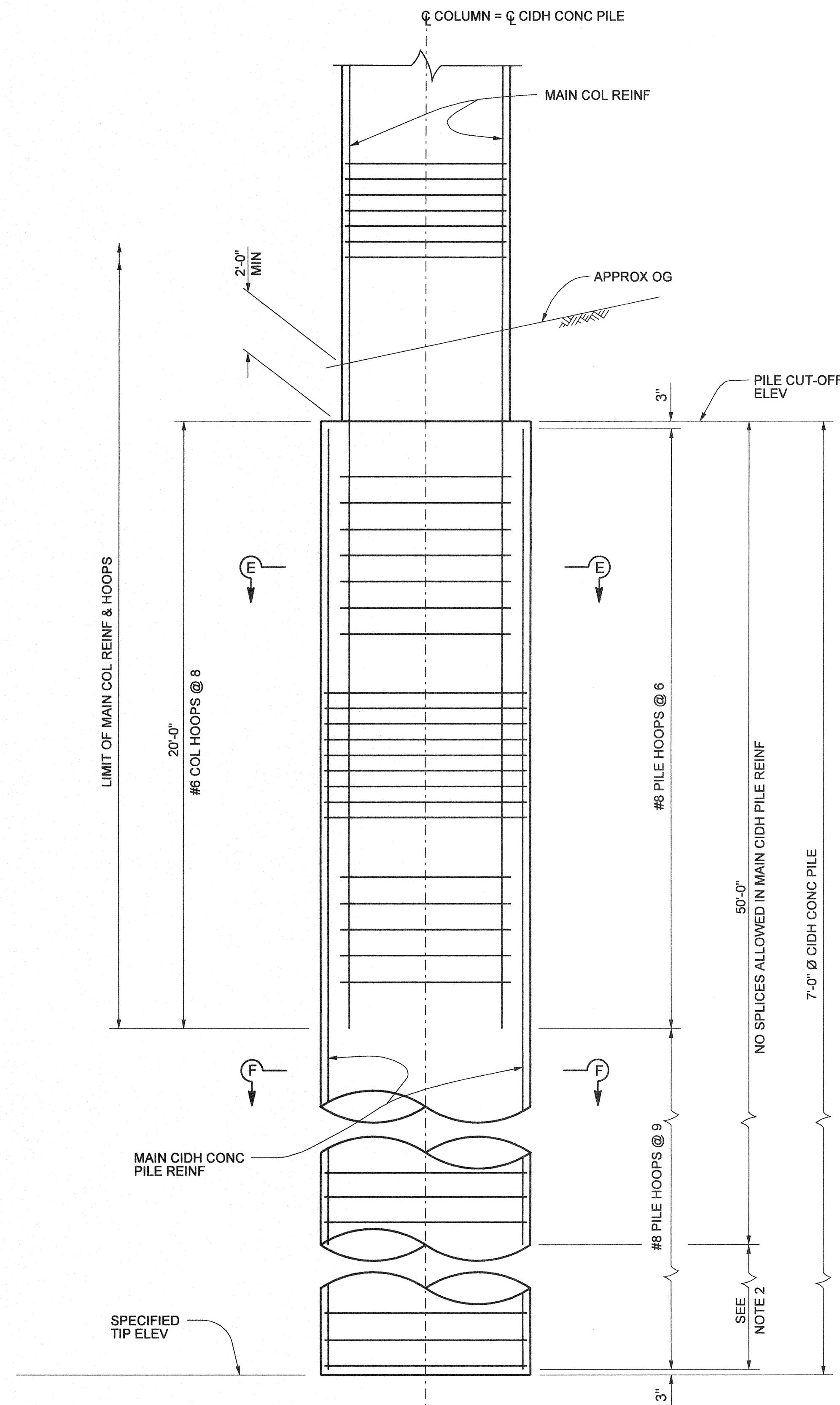
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



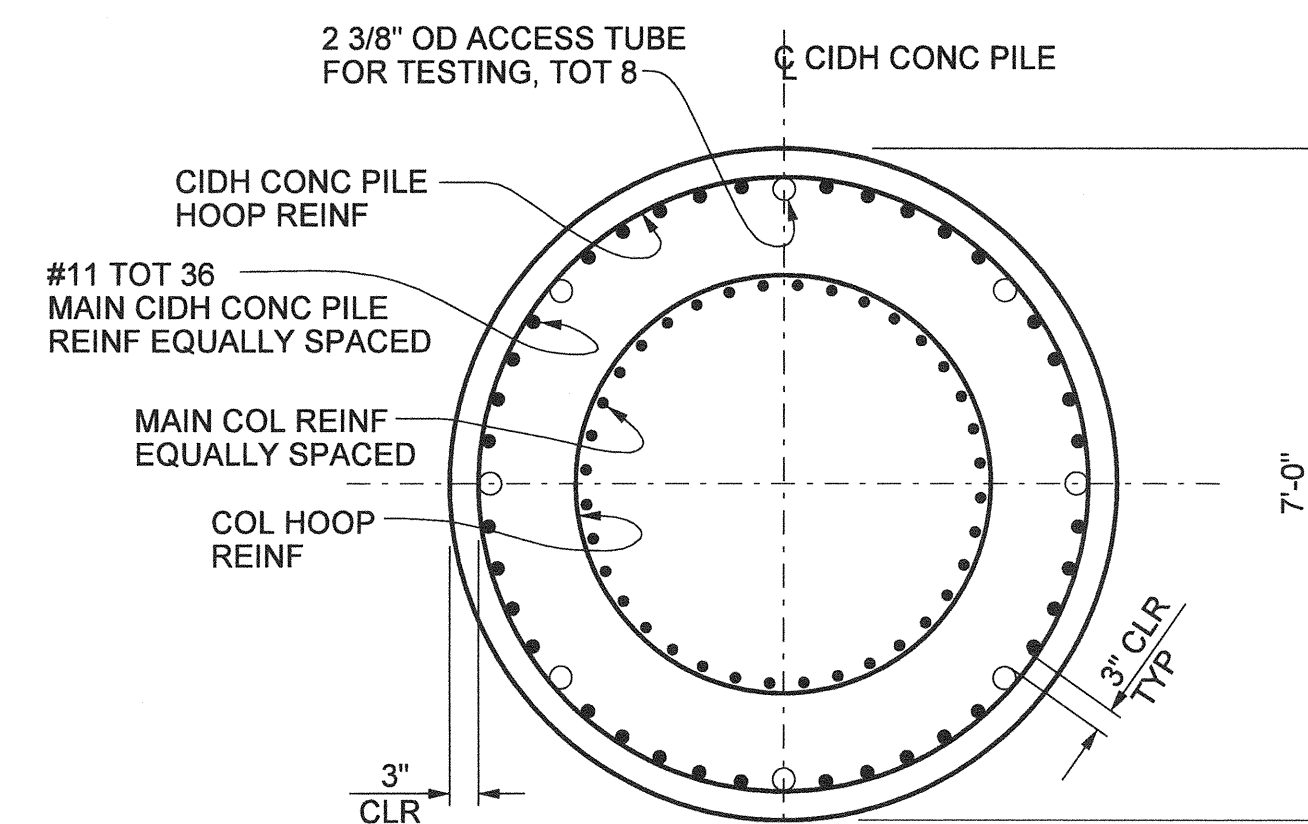
Date Plotted:

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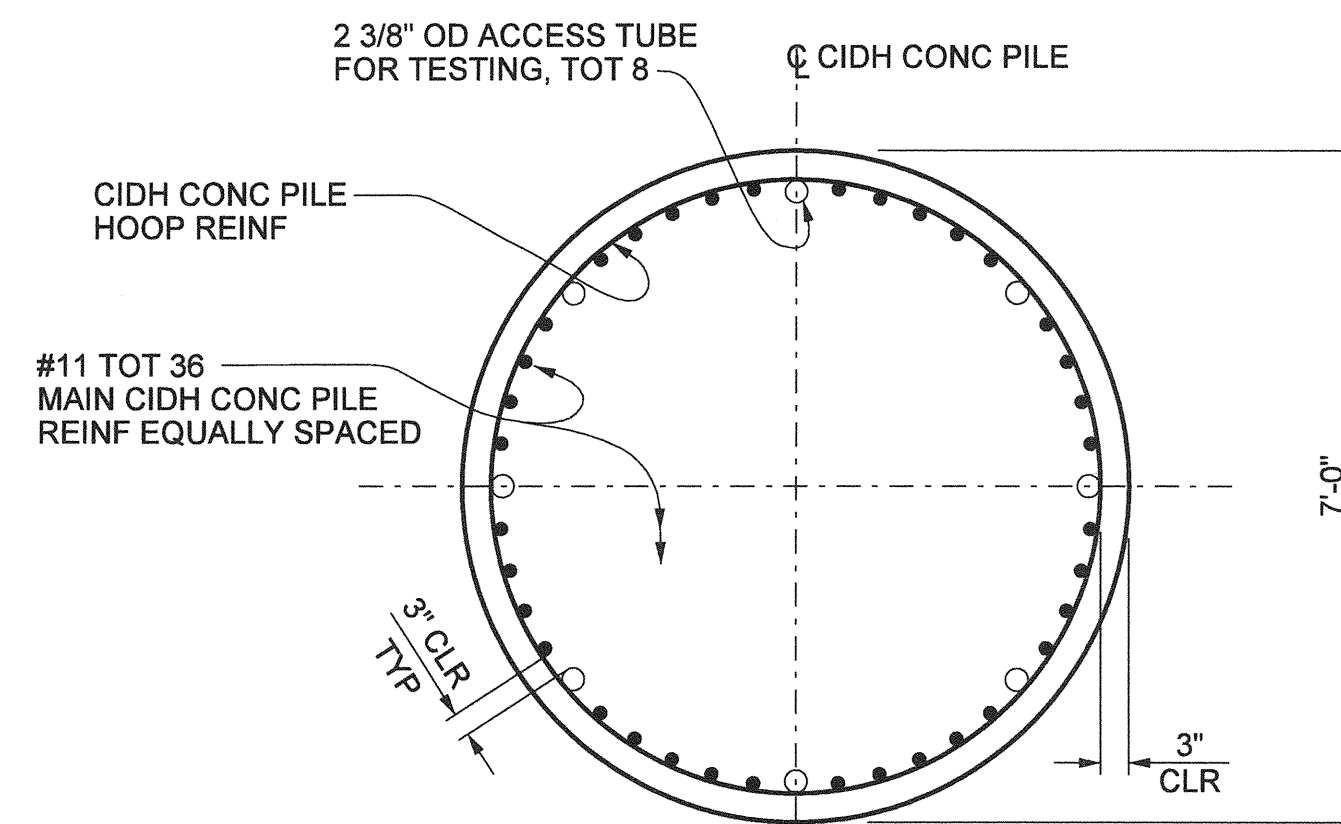
Border sheet last modified 09-Nov-1999



CIDH CONCRETE PILE ELEVATION
3/8" = 1'-0"



SECTION E-E
1/2" = 1'-0"



SECTION F-F
1/2" = 1'-0"

NO AS BUILT CHANGES

AS BUILT

CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009

NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
2. ONLY STAGGERED "ULTIMATE" BUTT SPLICES ARE ALLOWED IN MAIN CIDH CONC PILE REINF FOR BENTS 2 & 3.
3. ALL HOOPS SHALL BE WELDED AS SHOWN ON DETAIL "BAR SPIRAL SPLICE, SPIRAL ANCHOR AND HOOP DETAIL" ON "BENT 2 & 3 DETAIL NO. 2" SHEET.
4. FOR COL REINF AND DETAILS, SEE "BENTS 2 & 3 DETAILS NO. 1 AND NO. 2" SHEETS AND "ABUTMENT 1 DETAILS" SHEETS.

1/2" 0 2
3 inches on original drawing

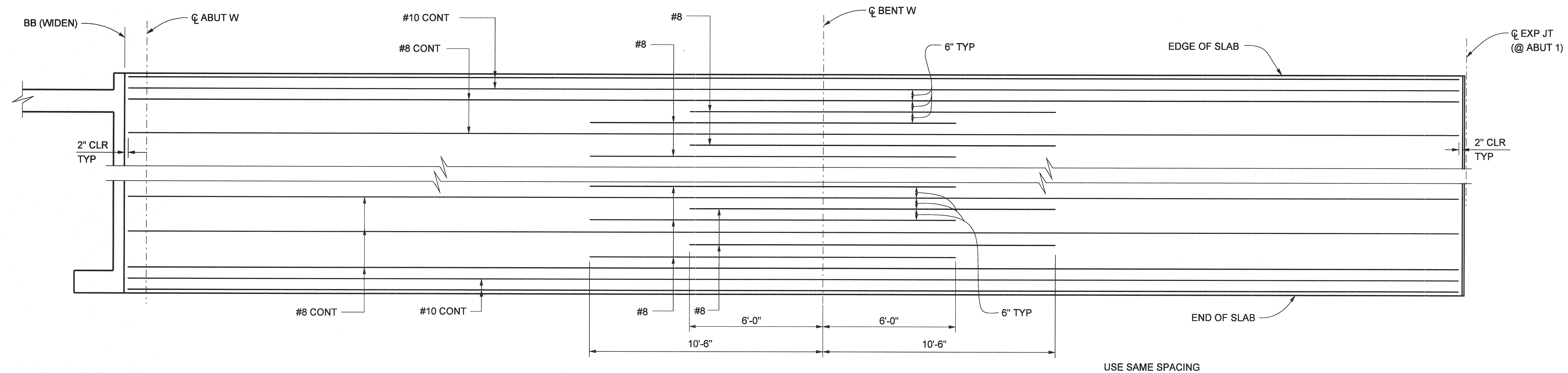
PLANS PREPARED BY:
HNTB
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT		ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)																									
BENTS 2 & 3 DETAILS NO. 3		SHEET 55 OF 72																									
<table border="1"> <tr> <th>MARK</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td colspan="3">REVISIONS</td> </tr> <tr> <td colspan="3">PREPARED UNDER RESPONSIBLE CHARGE OF:</td> </tr> <tr> <td colspan="3"> </td> </tr> <tr> <td>DESIGNED</td> <td>J. WANG</td> <td>CHECKED</td> <td>E. JEANG</td> </tr> <tr> <td>DRAWN</td> <td>J. WANG</td> <td>DATE</td> <td>9/19/08</td> </tr> <tr> <td>SCALE</td> <td>AS SHOWN</td> <td>DRAWING NO.</td> <td></td> </tr> </table>				MARK	DATE	DESCRIPTION	REVISIONS			PREPARED UNDER RESPONSIBLE CHARGE OF:						DESIGNED	J. WANG	CHECKED	E. JEANG	DRAWN	J. WANG	DATE	9/19/08	SCALE	AS SHOWN	DRAWING NO.	
MARK	DATE	DESCRIPTION																									
REVISIONS																											
PREPARED UNDER RESPONSIBLE CHARGE OF:																											
DESIGNED	J. WANG	CHECKED	E. JEANG																								
DRAWN	J. WANG	DATE	9/19/08																								
SCALE	AS SHOWN	DRAWING NO.																									

Date Plotted:

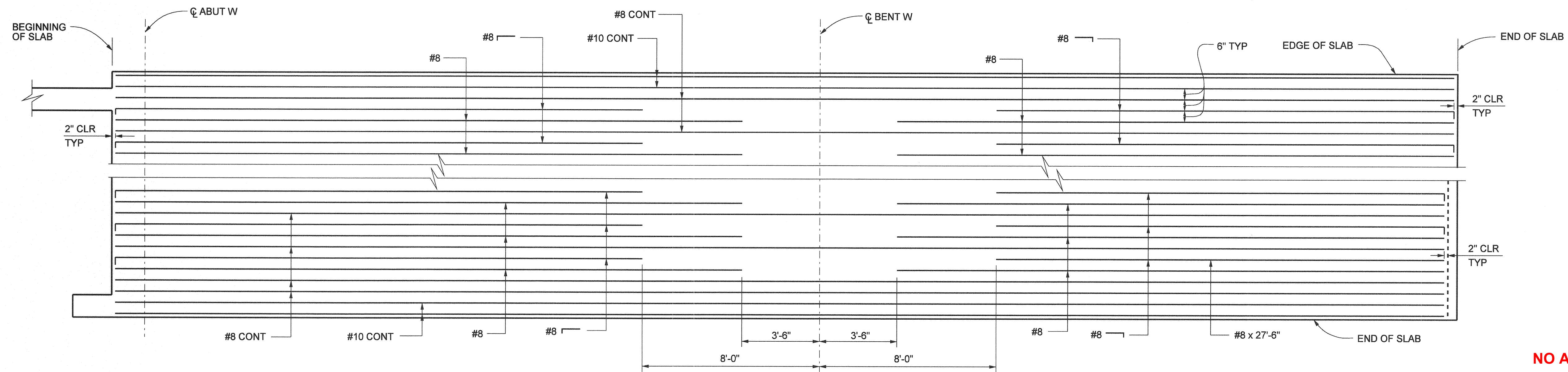
File Name: J:\34092\CADD\Stro\sheet\antonio\pkwy-S-14.dgn

Border sheet last modified 09-Nov-1999



REINFORCEMENT - TOP OF SLAB

3/8" = 1'-0"



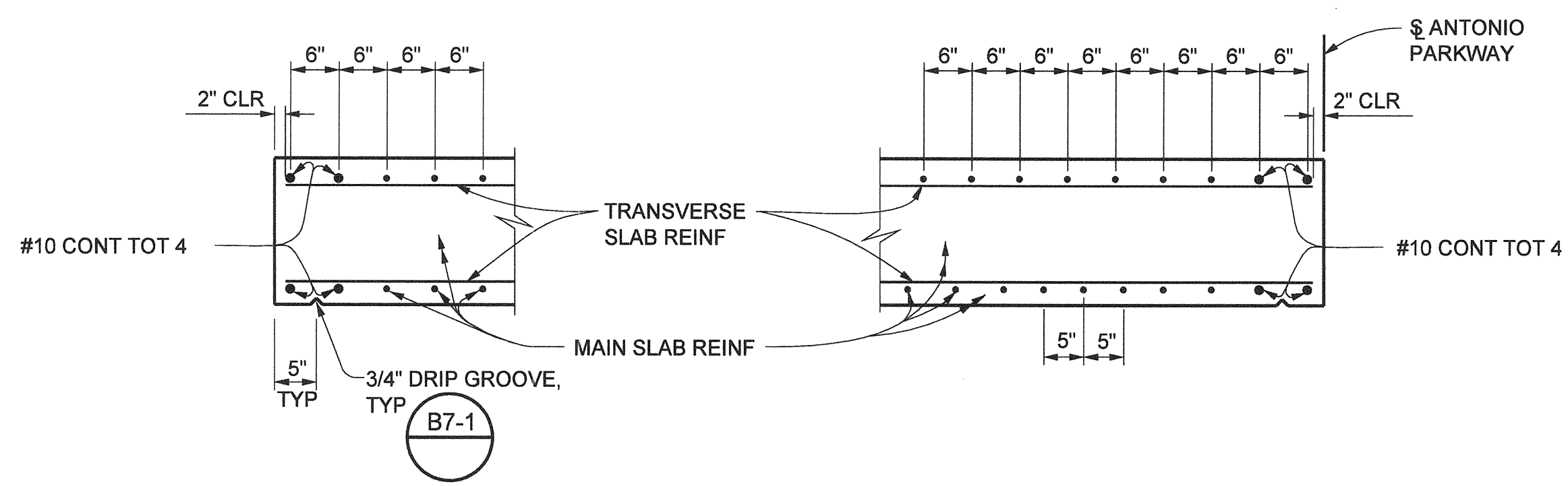
REINFORCEMENT - BOTTOM OF SLAB

3/8" = 1'-0"

NO AS BUILT CHANGES

AS BUILT

CORRECTION BY: MN
 CONTRACT NO.: ER28121
 DATE: 12/30/2009



EDGE OF SLAB DETAIL

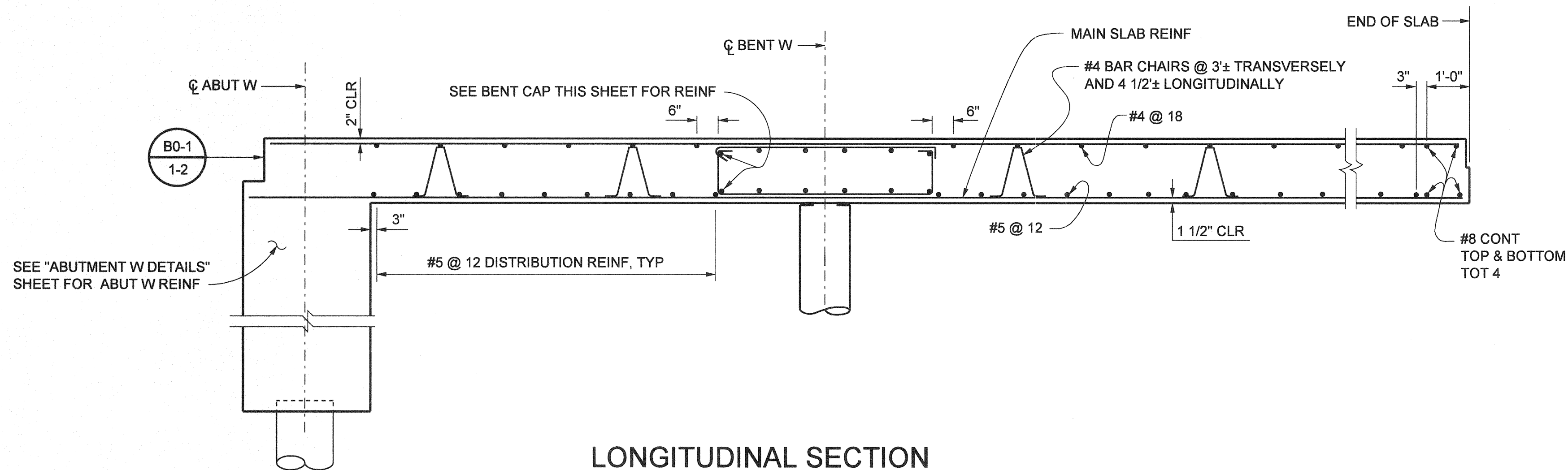
3/4" = 1'-0"

CURB AND RAILING NOT SHOWN FOR CLARITY

- NOTES:**
1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
 2. NO SPLICE IS ALLOWED IN TOP AND BOTTOM MAIN BARS.
 3. FOR DECK CHANNEL DRAIN INFORMATION, SEE "DECK DRAIN LAYOUT" SHEET.

PLANS PREPARED BY: **HNTB**
 HNTB Corporation
 200 E. SANDPOINTE AVENUE, SUITE 200
 SANTA ANA, CALIFORNIA 92707
 TEL (714) 460-1600 FAX (714) 460-1610

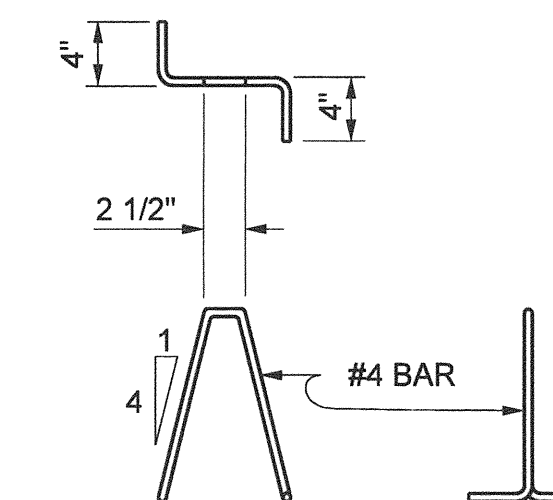
ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT		ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)		SHEET 56 OF 72	
SLAB REINFORCEMENT					
DESIGNED: <u>J. WANG</u>					
DRAWN: <u>N. MORALES</u> CHECKED: <u>F. JEANG</u>					
SCALE: <u>AS SHOWN</u> DATE: <u>9/19/08</u> DRAWING NO. <u>1/31/06</u>					
PREPARED UNDER RESPONSIBLE CHARGE OF: Yung-Nien Wang RCE C 43559 (EXP. 6-30-06)					



LONGITUDINAL SECTION

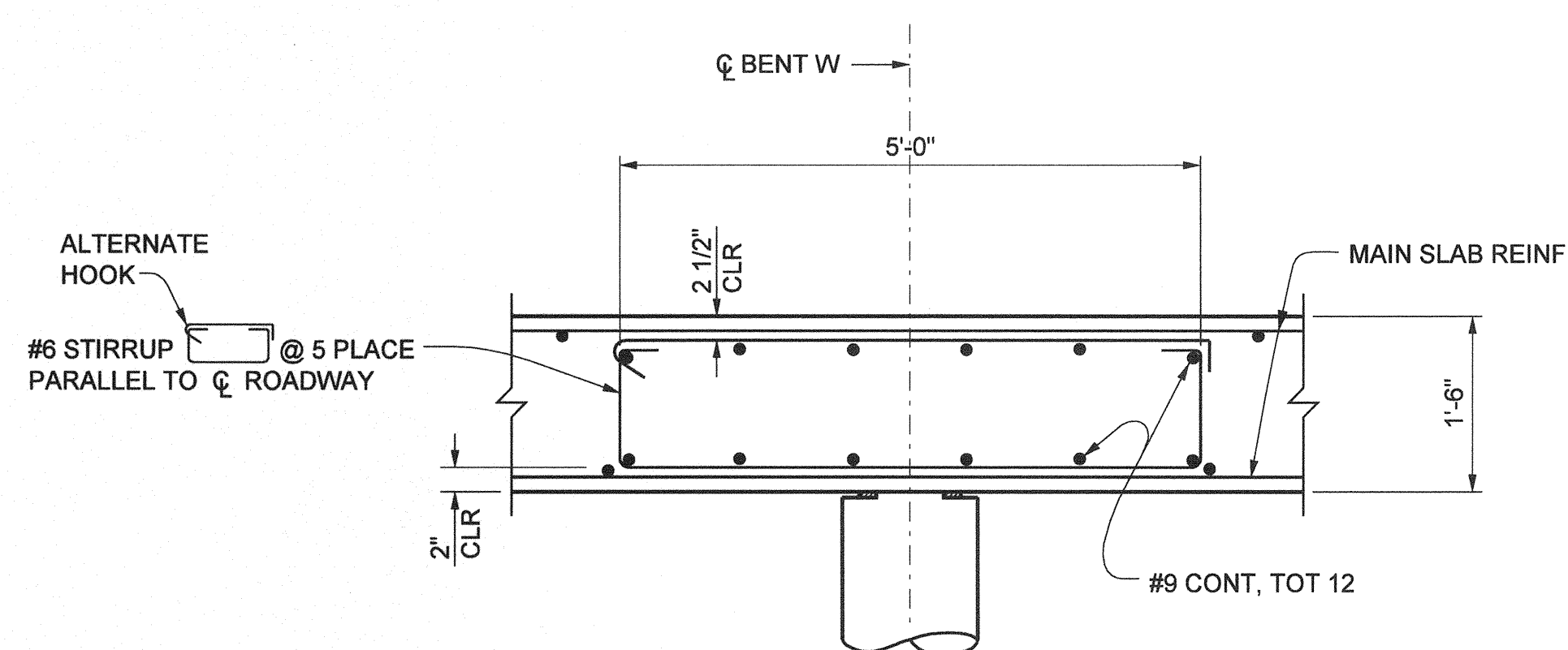
NO SCALE

PILE REINF NOT SHOWN FOR CLARITY



BAR CHAIR DETAIL

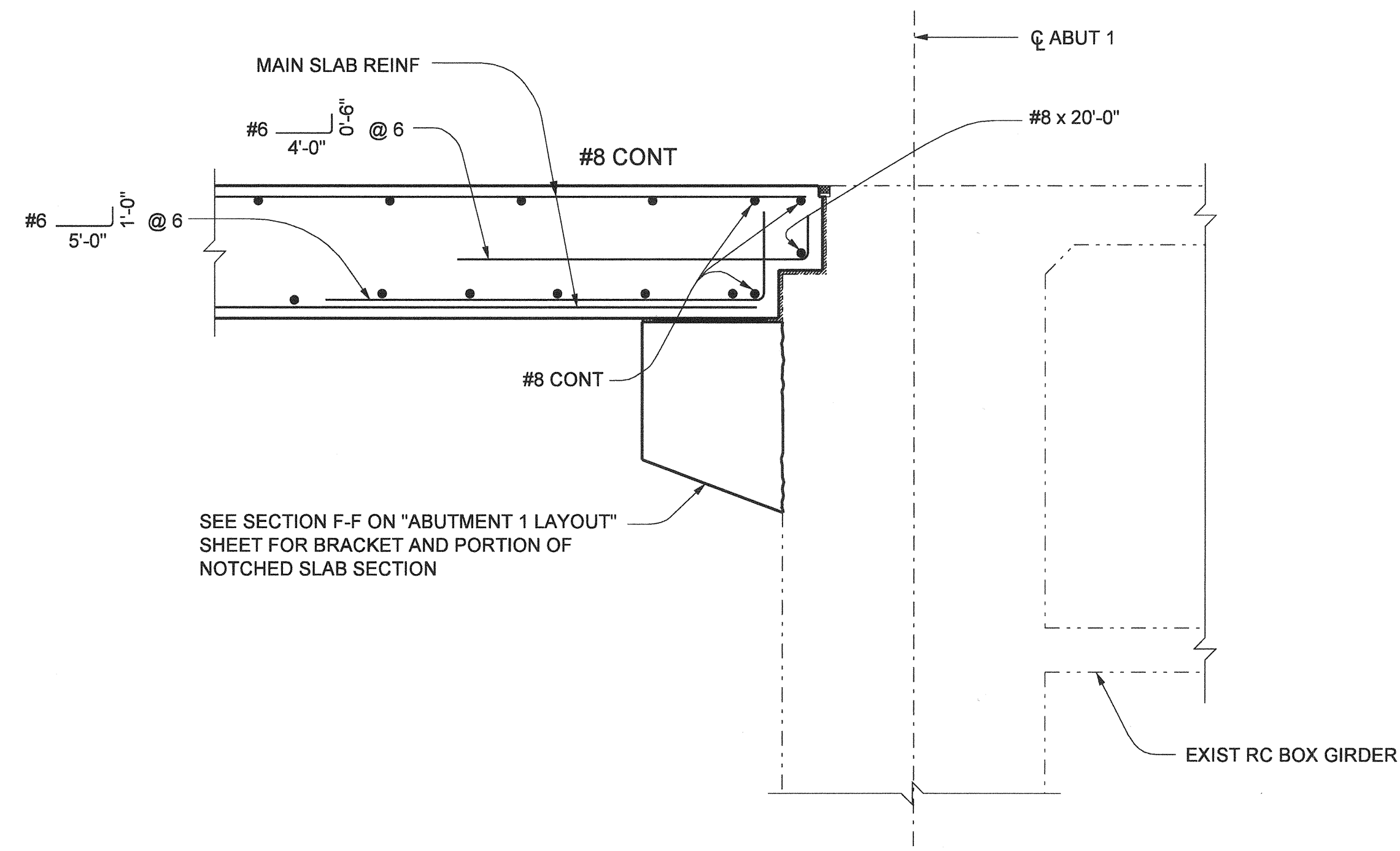
NO SCALE



BENT CAP

NO SCALE

PILE REINF NOT SHOWN FOR CLARITY



NOTCHED SLAB SECTION

NO SCALE

SEE LONGITUDINAL SECTION THIS SHEET FOR REINF INFORMATION NOT SHOWN FOR THIS SECTION ONLY.

NO AS BUILT CHANGES

AS BUILT

CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009

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

LEGEND

----- DENOTES EXISTING STRUCTURE
————— DENOTES NEW STRUCTURE

PLANS PREPARED BY:
HNTB
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

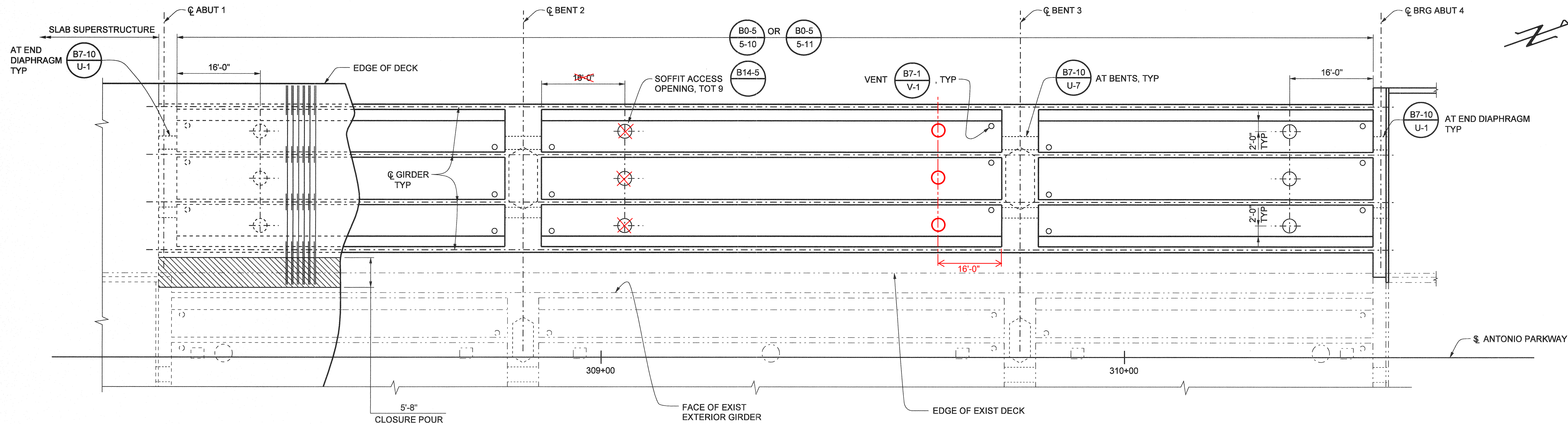
ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT		ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)	
SLAB REINFORCEMENT DETAILS			
DESIGNED <u>A. WANG</u>	CHECKED <u>F. JEANG</u>	SHEET 57 OF 72	
DRAWN <u>N. MORALES</u>	DATE <u>9/19/06</u>	DRAWING NO.	
SCALE <u>AS SHOWN</u>	DATE <u>9/19/06</u>	DRAWING NO.	

PREPARED UNDER RESPONSIBLE CHARGE OF:
Yung-Nien Wang
REGISTERED PROFESSIONAL ENGINEER
NO. C 43559
EXP. 6-30-08
CIVIL
STATE OF CALIFORNIA
Yung-Nien Wang
RCE C 43559 (EXP. 6-30-08)

Date Plotted:

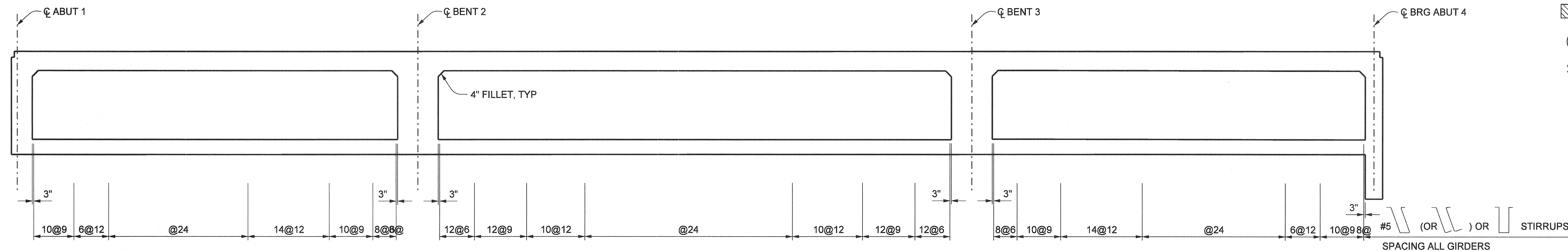
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Border sheet last modified 05-Nov-1999

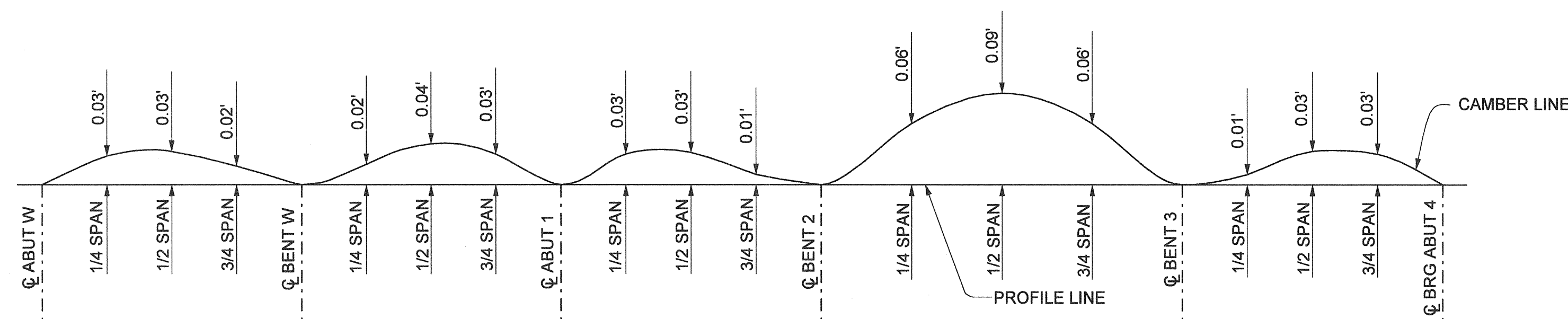


GIRDER LAYOUT
1" = 10'-0"
CONCRETE BARRIER AND MEDIAN NOT SHOWN FOR CLARITY

- LEGEND**
- DENOTES EXIST STRUCTURE
 - DENOTES NEW STRUCTURE
 - ▨ CLOSURE POUR
 - SOFFIT ACCESS OPENING
 - EXIST DECK ACCESS OPENING
 - EXIST SOFFIT ACCESS OPENING



LONGITUDINAL SECTION
NO SCALE



CAMBER DIAGRAM
NO SCALE
CAMBER DOES NOT INCLUDE ALLOWANCE FOR FALSEWORK SETTLEMENT.

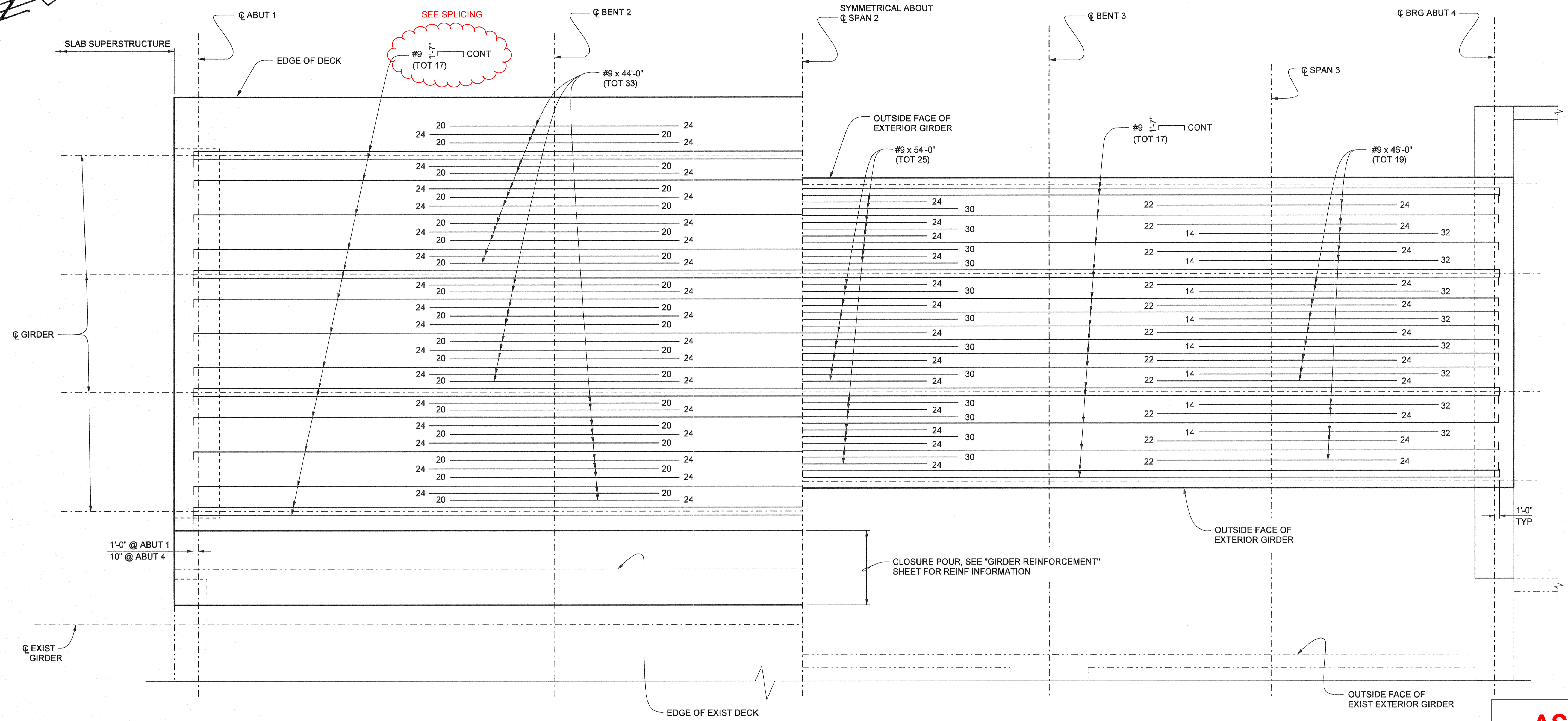
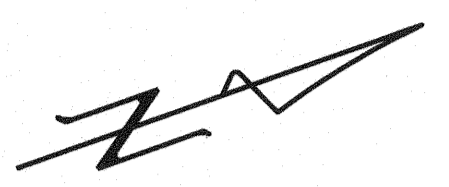
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATION ANY MATERIAL.
BEND BOTTOM REINFORCEMENT FOR SOFFIT ACCESS OPENINGS

AS BUILT
CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009

PLANS PREPARED BY:
HNTB
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT		ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)		SHEET 59 OF 72	
GIRDER LAYOUT					
DESIGNED: <u> J. WANG </u>					
DRAWN: <u> L. ZHANG </u> CHECKED: <u> F. JEANG </u>					
SCALE: <u> AS SHOWN </u> DATE: <u> 9/19/08 </u>					
DRAWING NO. <u> 1/31/06 </u>					

Prepared Under Responsible Charge of:
Yung-Nien Wang
Professional Engineer
No. C 43559
Exp. 6-30-08
Civil
State of California
Date: 12/30/09



ADDED TOP DECK REINFORCEMENT
NO SCALE

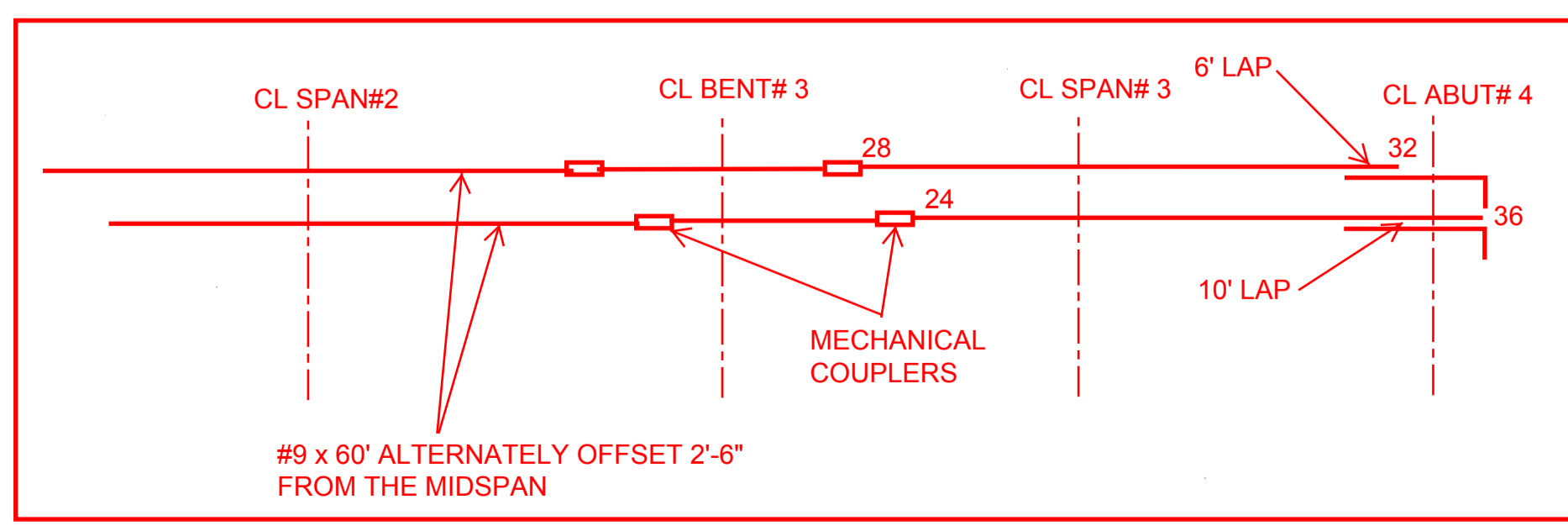
ADDED BOTTOM SLAB REINFORCEMENT
NO SCALE

- NOTES:
1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
 2. NUMBERS AT THE END OF BARS INDICATE LENGTH FROM CL OF BENT CAP. TOP REINFORCEMENT SHALL NOT BE LAP SPICED WITHIN 25' OF MID-SPAN OR WITHIN 25' OF CL OF BENT CAP. TOP REINFORCEMENT SHALL NOT BE LAP SPICED WITHIN 25' OF CL OF BENT CAP.
 3. BOTTOM REINFORCEMENT SHALL NOT BE LAP SPICED WITHIN 25' OF MID-SPAN OR WITHIN 25' OF CL OF BENT CAP. TOP REINFORCEMENT SHALL NOT BE LAP SPICED WITHIN 25' OF CL OF BENT CAP.
 4. TOP AND BOTTOM REINF SYMMETRICAL ABOUT CL SPAN 2.

LEGEND

----- DENOTES EXISTING STRUCTURE

————— DENOTES NEW STRUCTURE



AS BUILT

CORRECTION BY: MN

CONTRACT NO.: ER28121

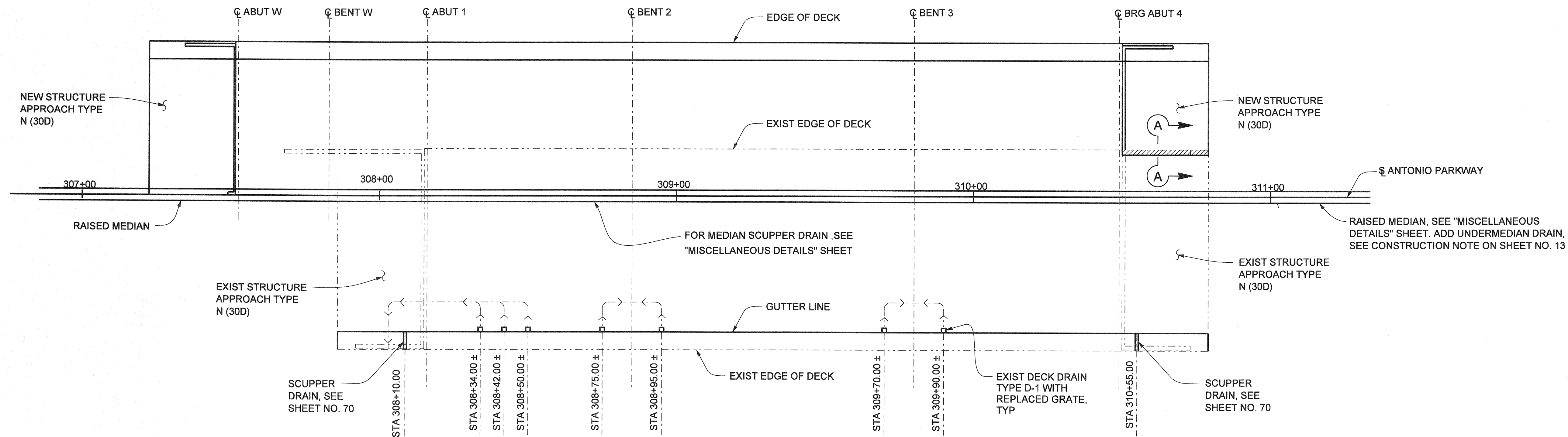
DATE: 12/30/2009

1/2 0 2
3 inches on original drawing

ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT	
ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)	
GIRDER REINFORCEMENT	
DESIGNED <u>J. WANG</u>	SHEET 60 OF 72
DRAWN <u>L. ZHANG</u>	CHECKED <u>E. JEAN</u>
DATE 9/19/09	DRAWING NO.
DATE PLOTTED: 12/30/09	

PLANS PREPARED BY:
HNTB
HNTB Corporation
200 E. SANDPONT AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

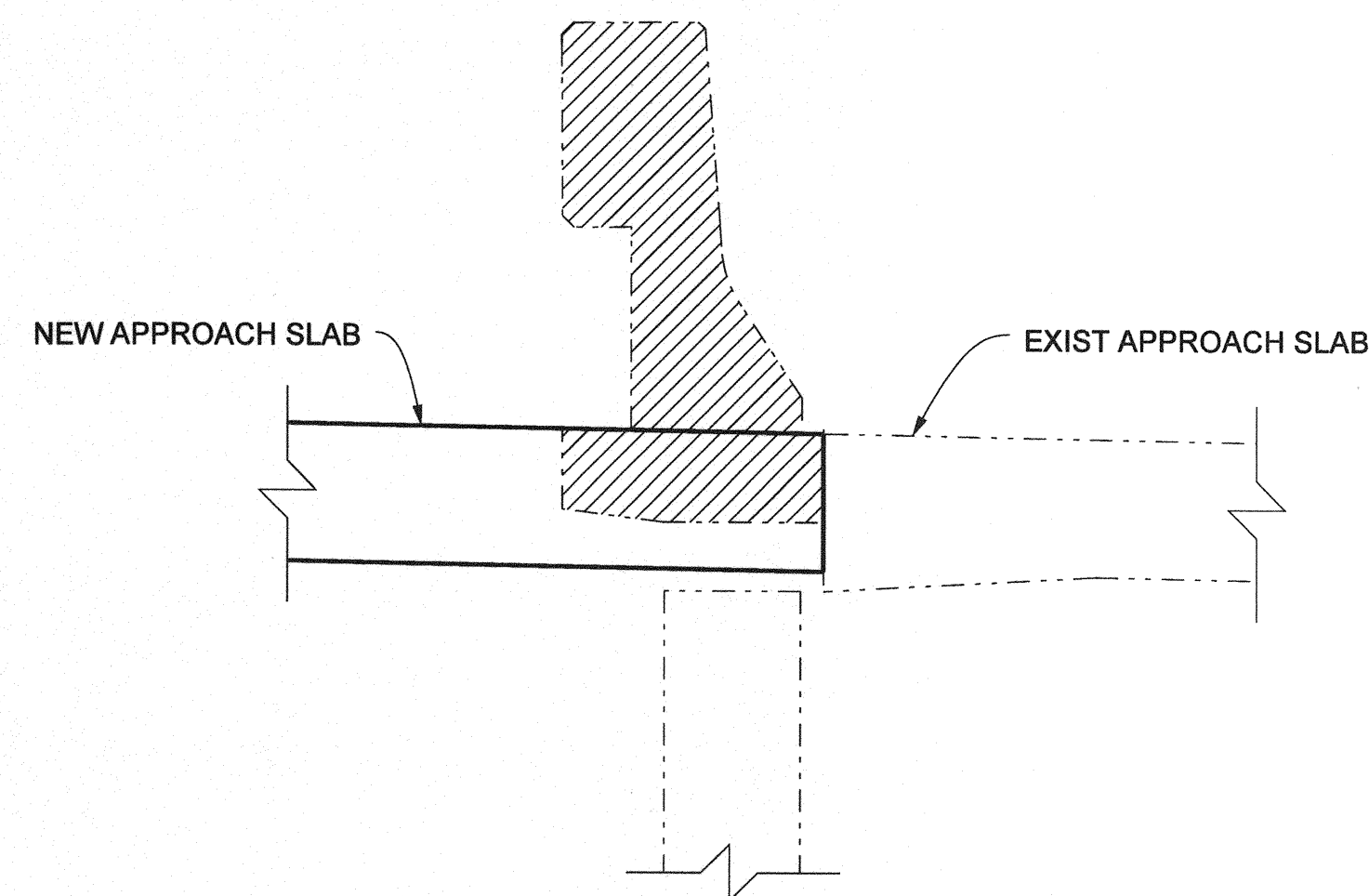
22



DECK DRAIN PLAN

1"= 20'

CONC BARRIER NOT SHOWN FOR CLARITY



SECTION A-A

3/4"= 1'-0"

NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
2. FOR REPLACED DECK DRAIN GRATE DETAILS, SEE "DECK DRAIN DETAILS" SHEET.
3. FOR DECK CHANNEL DRAIN OUTLET DETAIL AND SCUPPER DETAIL, SEE "MISCELLANEOUS DETAILS" SHEET.

LEGEND

- DENOTES EXISTING STRUCTURE
- DENOTES NEW STRUCTURE
- DENOTES DECK DRAIN FLOW LINE
- ▨ REMOVE EXISTING BARRIER AND PORTION OF APPROACH SLAB

NO AS BUILT CHANGES

AS BUILT

CORRECTION BY: MN

CONTRACT NO.: ER28121

DATE: 12/30/2009

PLANS PREPARED BY: **HNTB** Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

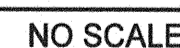
MARK		DATE	DESCRIPTION
REVISIONS			
PREPARED UNDER RESPONSIBLE CHARGE OF:			
Yung-Nien Wang REGISTERED PROFESSIONAL ENGINEER NO. C 43559 EXP. 6-30-08 CIVIL STATE OF CALIFORNIA			
DATE: 10/31/06			
ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT			
ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)			
DECK DRAIN LAYOUT			
DESIGNED: A. WANG		SHEET	
DRAWN: N. MOBALES		61	
CHECKED: E. J. JANG		OF 72	
SCALE	DATE	DRAWING NO.	
AS SHOWN	9/19/06		

Date Plotted:

File Name: J:\34092\CADD\Strcsheets\antoniopkwy-S-20.dgn



NO SCALE



SECTION A-A

NO SCALE



NO SCALE



NO SCALE



NO SCALE



NO SCALE



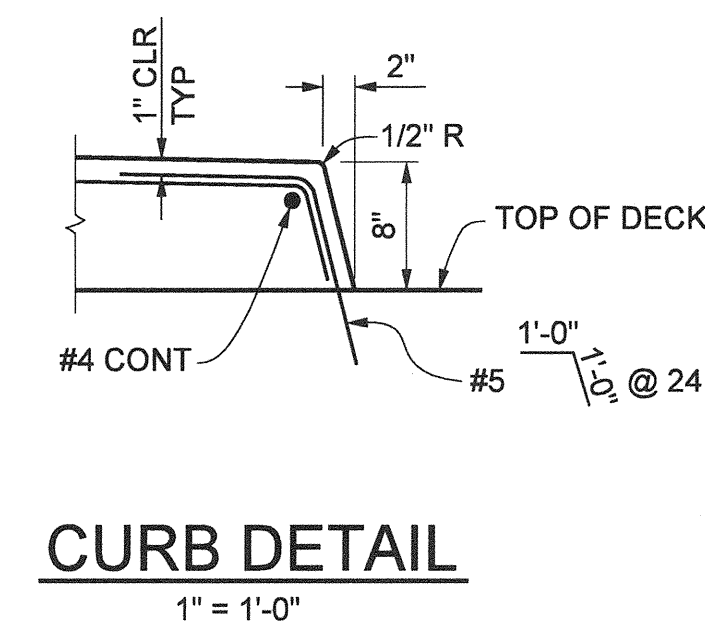
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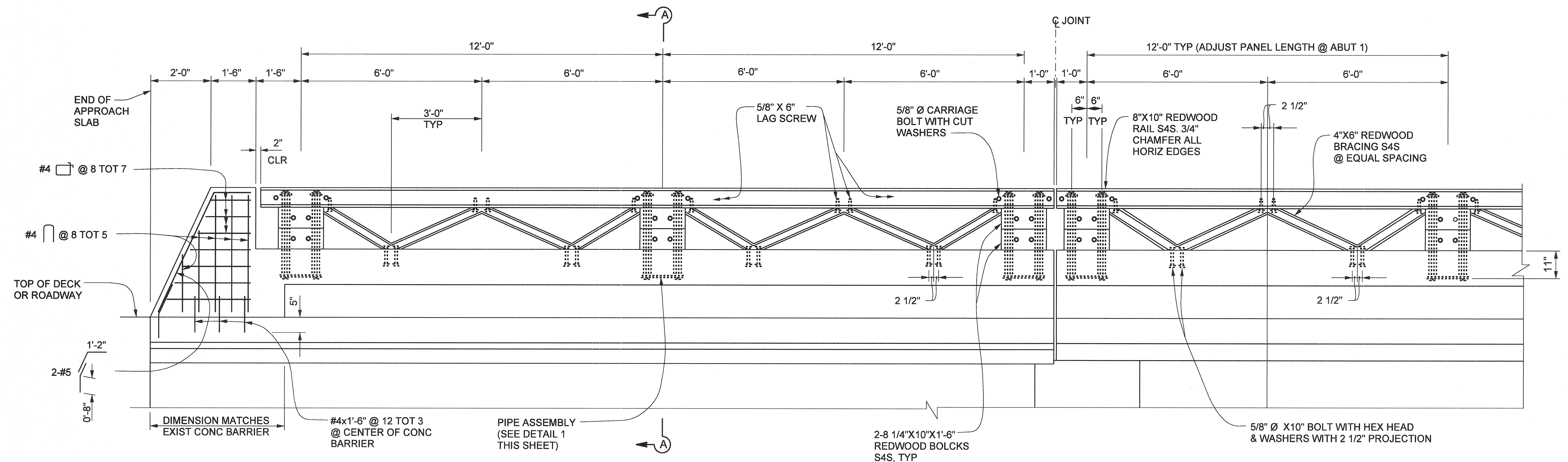
NO SCALE

AS BUILT

File Name: J:\34092\CADD\Strc\sheets\antonio\pkwy-S-21.dgn



Date Plotted: File Name: J:\34092\CADD\Strc\sheets\antonioipkwy-S-22.dgn



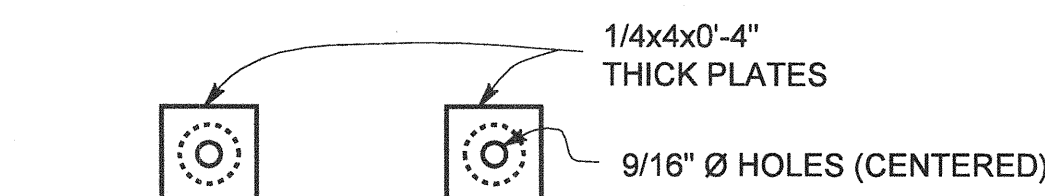
TYPICAL WINGWALL WOOD RAILING (SEE NOTE 2)

NO SCALE

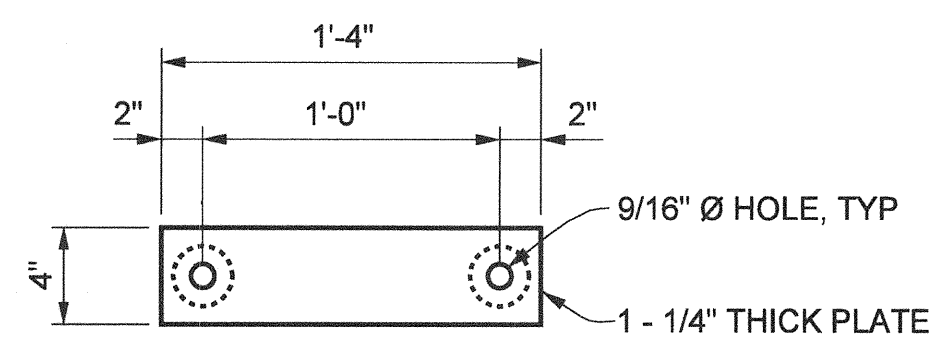
TYPICAL DECK WOOD RAILING (SEE NOTE 2)

NO SCALE

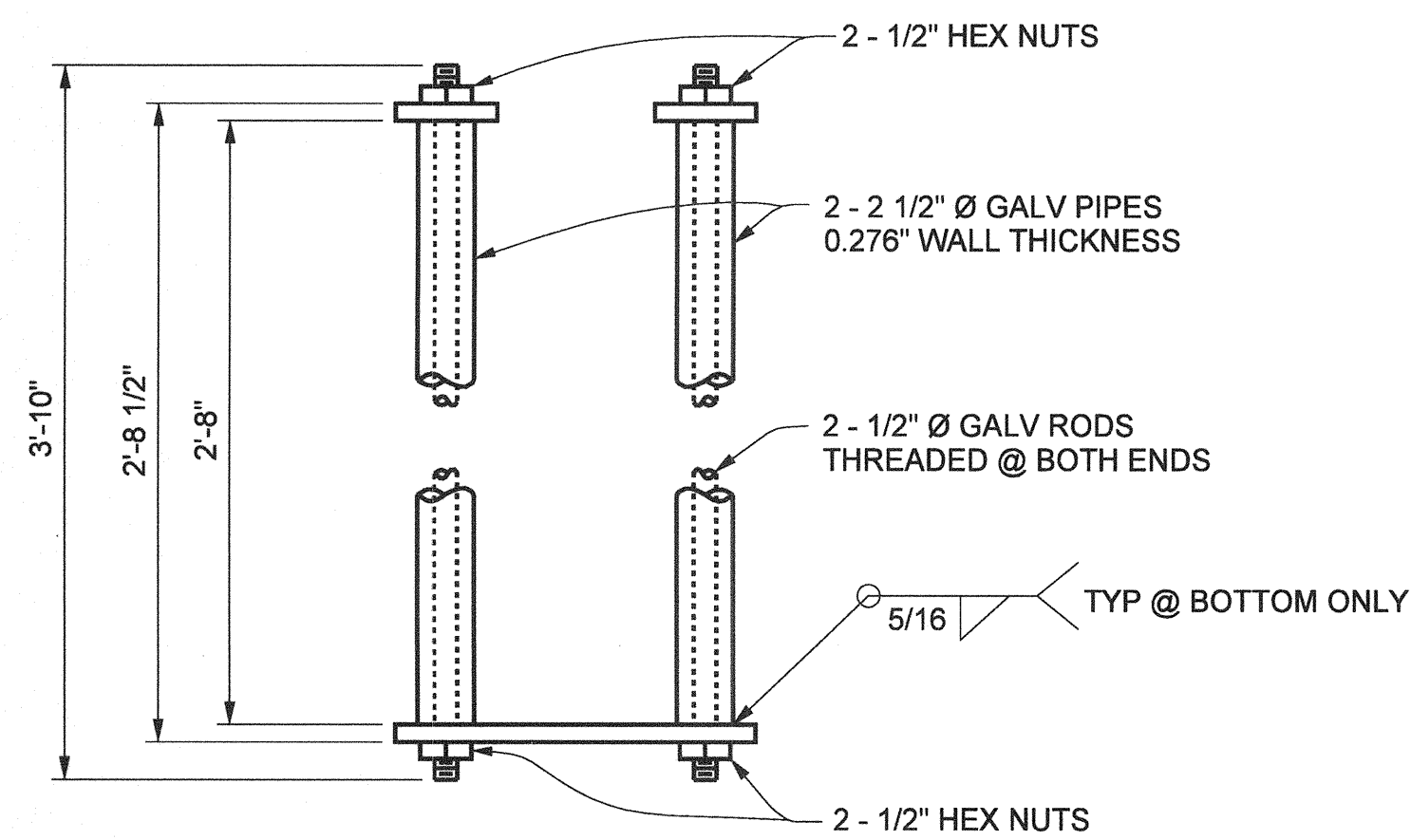
RC BOX GIRDER SHOWN, RC SLAB SIMILAR



TOP PLATES



BOTTOM PLATE

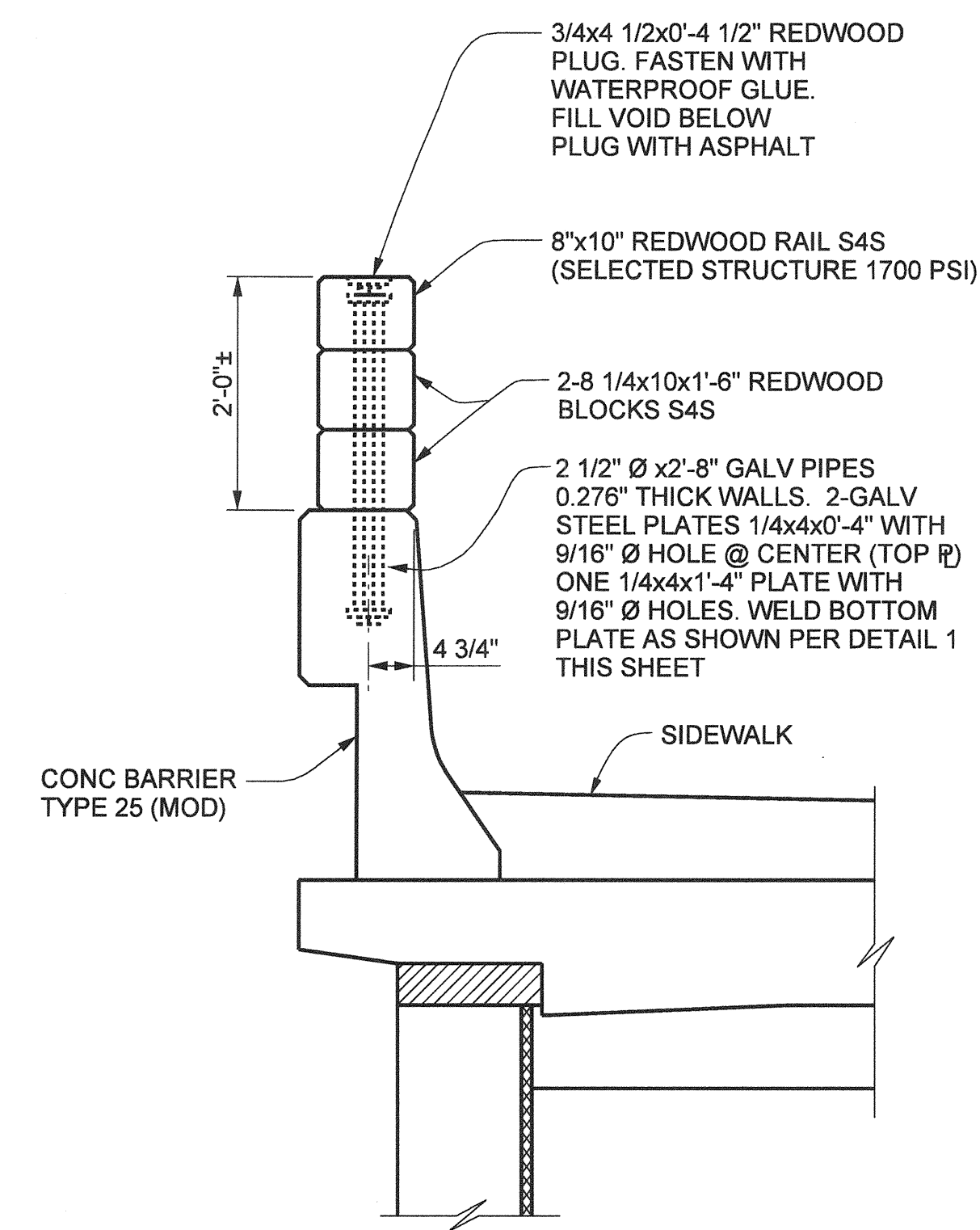


DETAIL 1

1 1/2" = 1'-0"

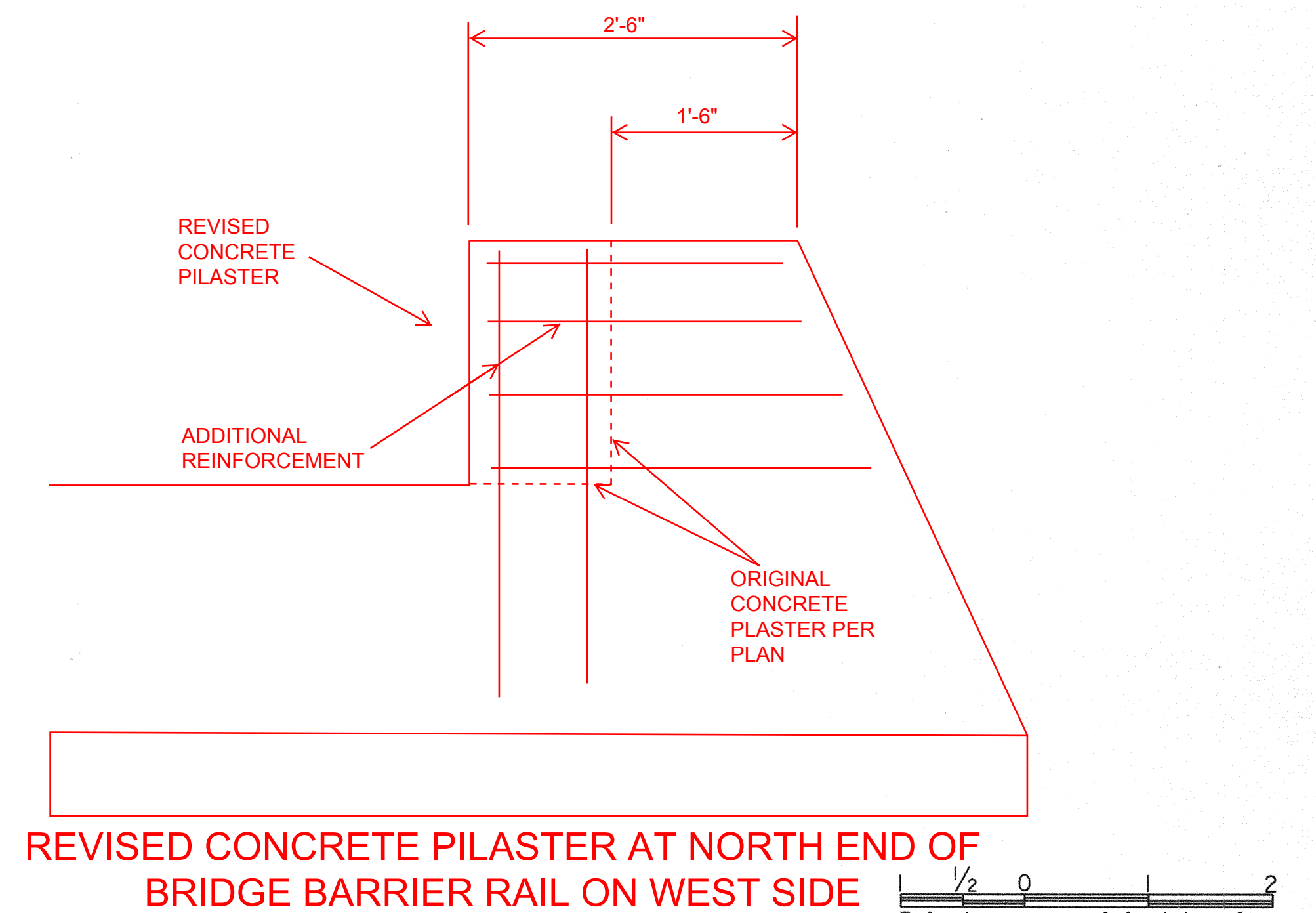
NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
2. THE NEW REDWOOD BEAM RAILING IS SHOWN, THE SALVAGING AND RECONSTRUCTING REDWOOD BEAM RAILING FROM THE REMOVED CONC BARRIER TYPE 25 (MOD) IS SIMILAR.



SECTION A-A

3/4" = 1'-0"



REVISED CONCRETE PILASTER AT NORTH END OF BRIDGE BARRIER RAIL ON WEST SIDE

3 inches on original drawing

AS BUILT

CORRECTION BY: MN

CONTRACT NO.: ER28121

DATE: 12/30/2009

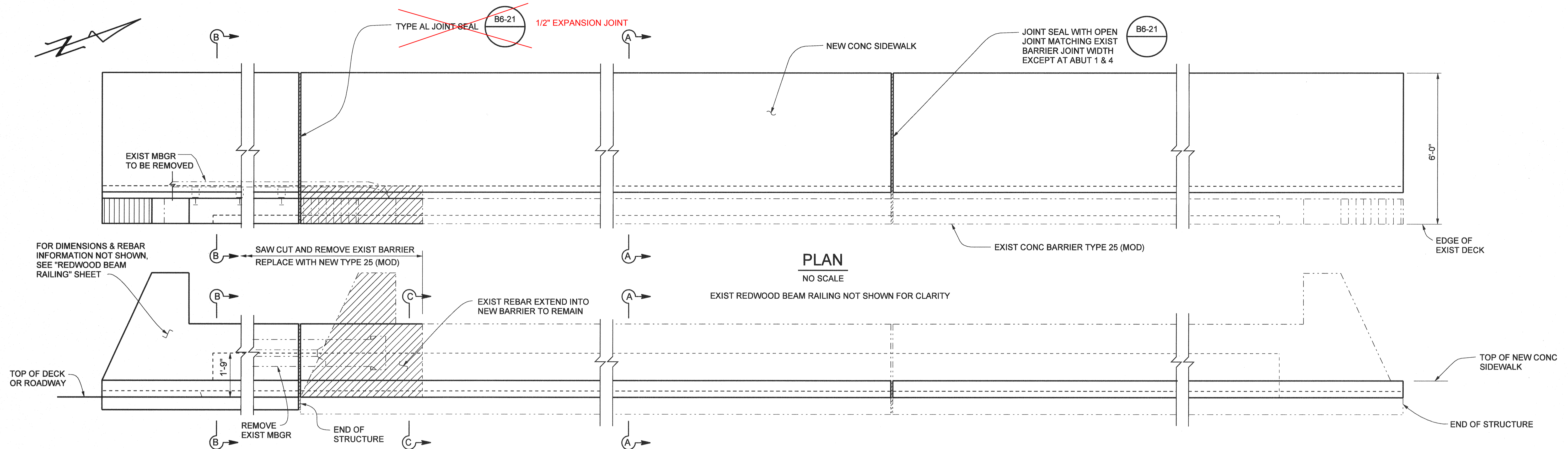
PLANS PREPARED BY: HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT		ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)	
REDWOOD BEAM RAILING		SHEET 64 OF 72	
DESIGNED: J. WANG	CHECKED: F. JEANG	DATE: 9/31/06	
DRAWN: J. WANG	CHECKED: F. JEANG	DATE: 9/31/06	
SCALE: AS SHOWN	DATE: 9/31/06	DRAWING NO.	

Date Plotted:

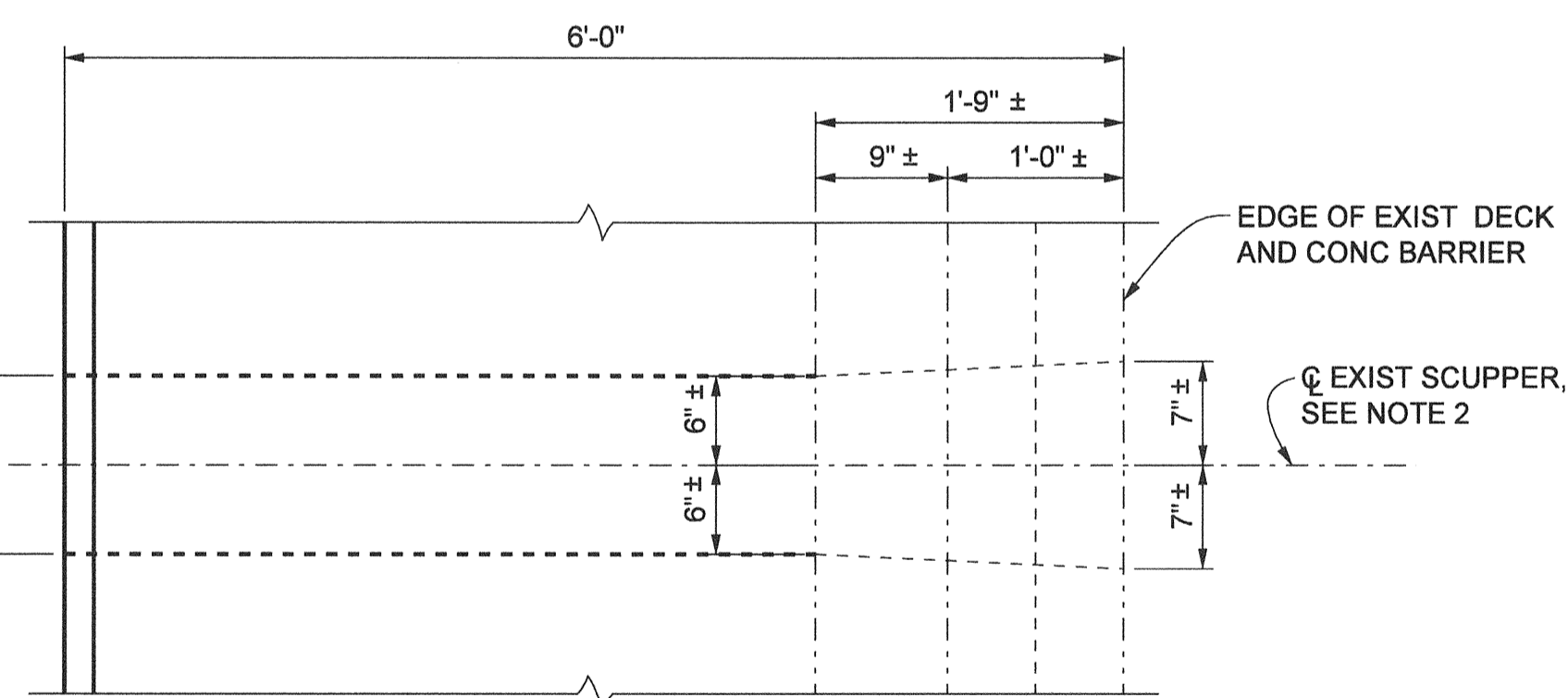
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Border sheet last modified 08-Nov-1999



MIRRORED ELEVATION

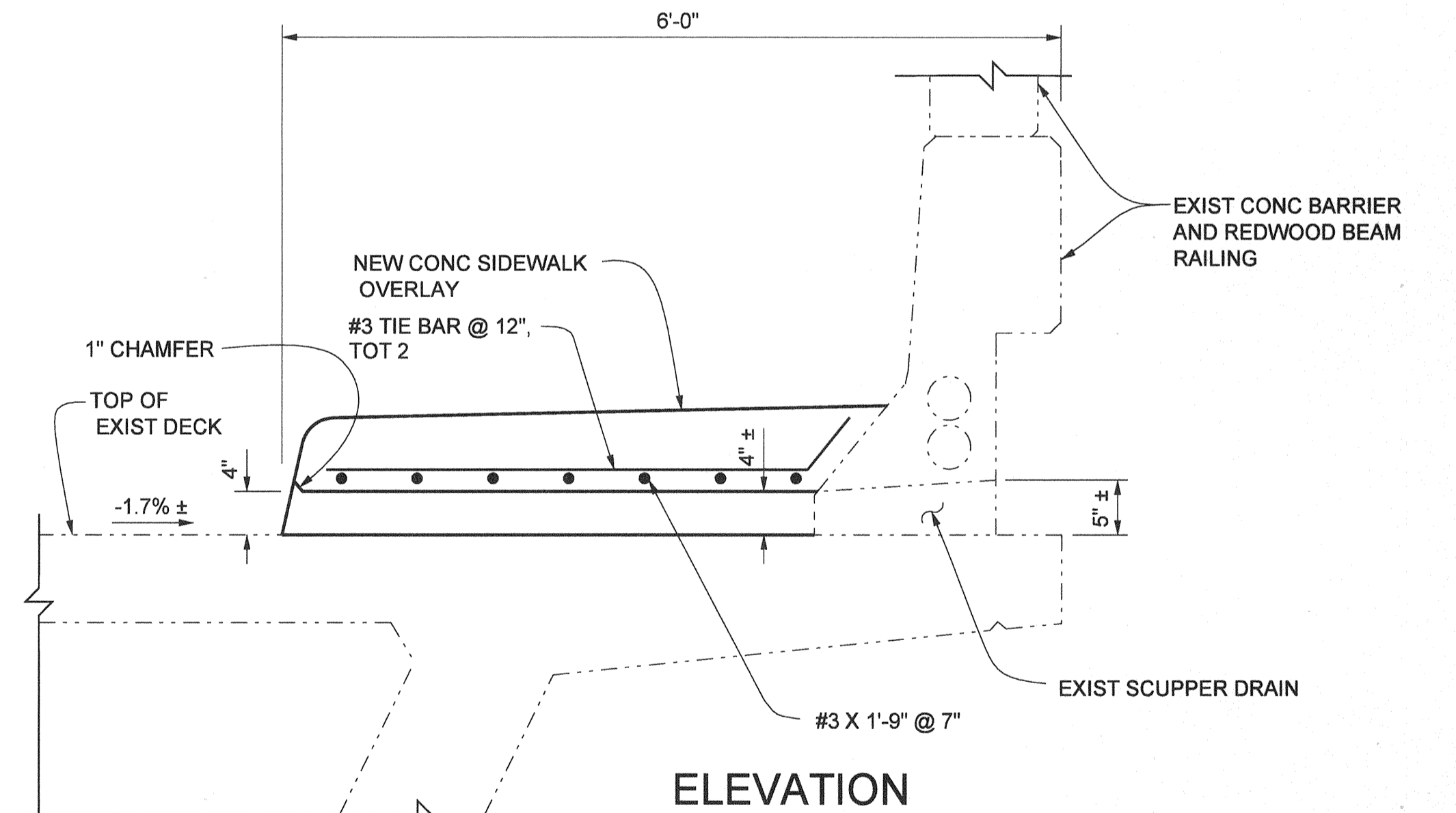
NO SCALE
EXIST REDWOOD BEAM RAILING NOT SHOWN FOR CLARITY



PLAN

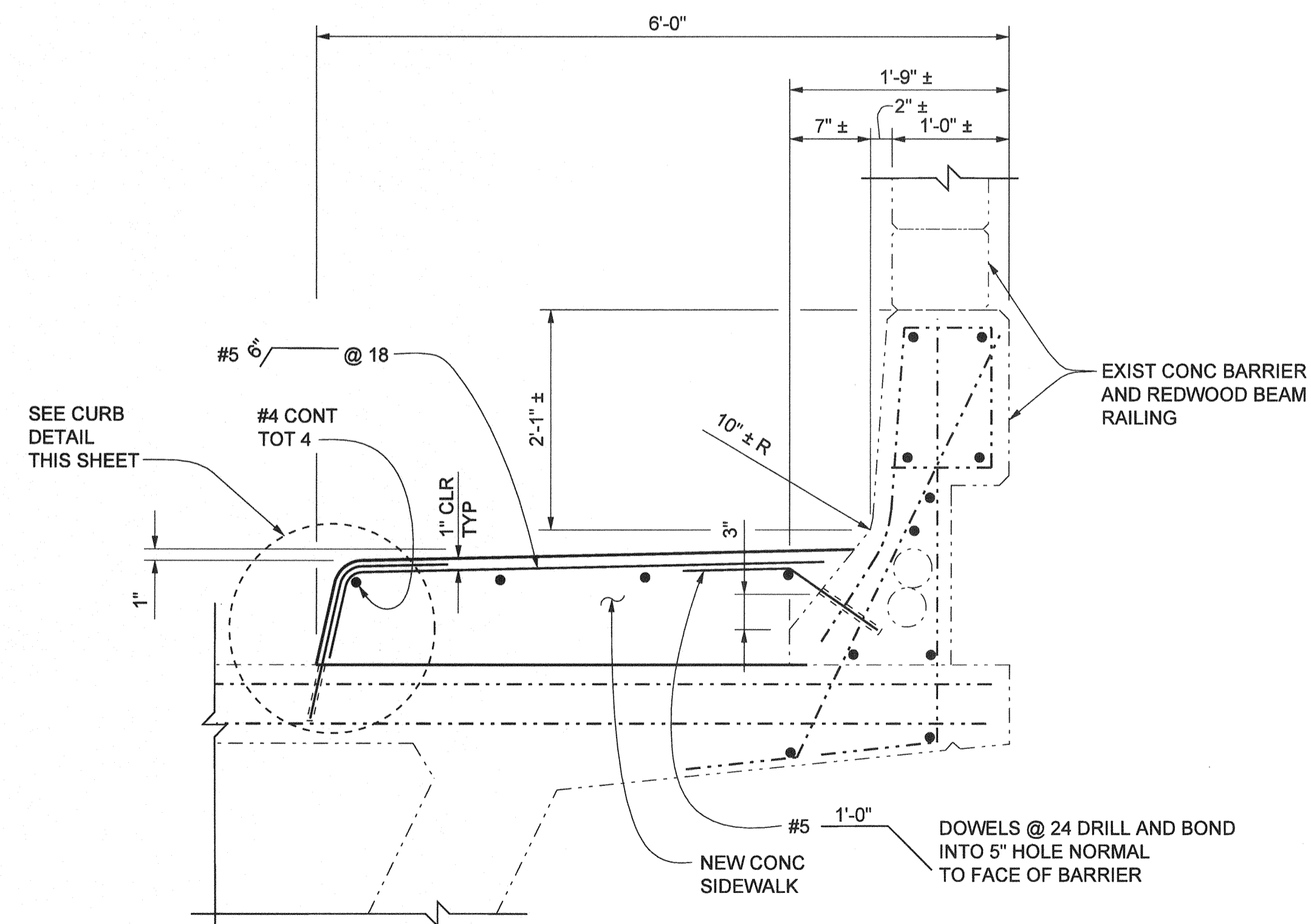
SCUPPER DRAIN DETAILS ON BRIDGE

1" = 1'-0"



ELEVATION

FOR SIDEWALK REINF, SEE SECTION A-A



SECTION A-A

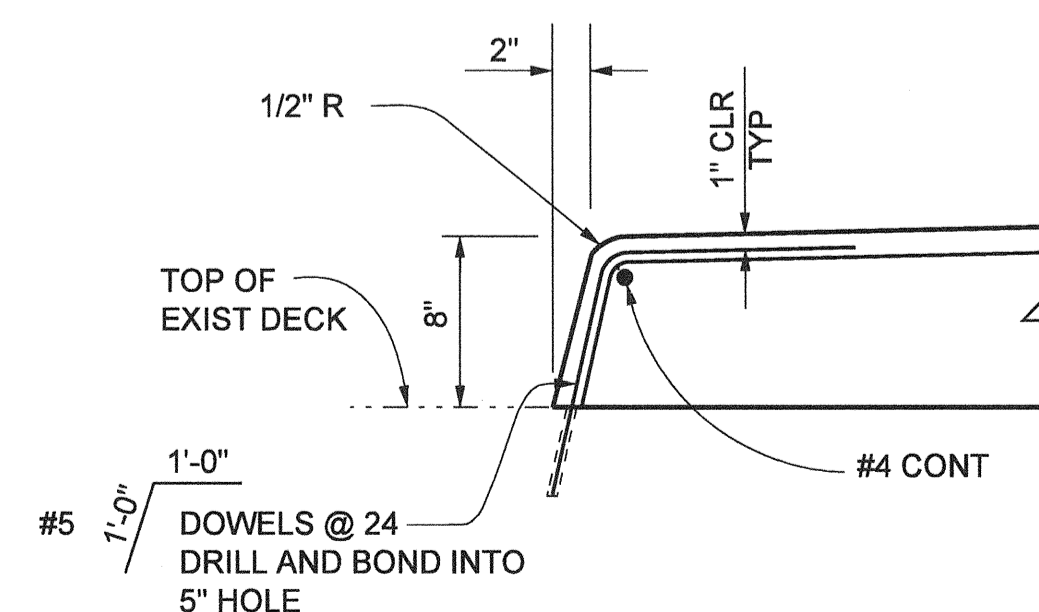
1" = 1'-0"

NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
2. SCUPPER DRAIN TO BE PLACED IN EAST SIDE NEW CONC SIDEWALK TO CONNECT TO EXIST 1'-0"± WIDE SCUPPER DRAIN IN EXIST CONC BARRIER.
3. FOR SECTION B-B AND SECTION C-C, SEE "FACADE GIRDER DETAILS" SHEET.

LEGEND

- DENOTES EXISTING STRUCTURE
- DENOTES NEW STRUCTURE
- /// DENOTES BRIDGE REMOVAL (PORTION)



CURB DETAIL

1" = 1'-0"

AS BUILT

CORRECTION BY: MM

CONTRACT NO.: ER28121

DATE: 12/30/2009

PLANS PREPARED BY:
HNTB

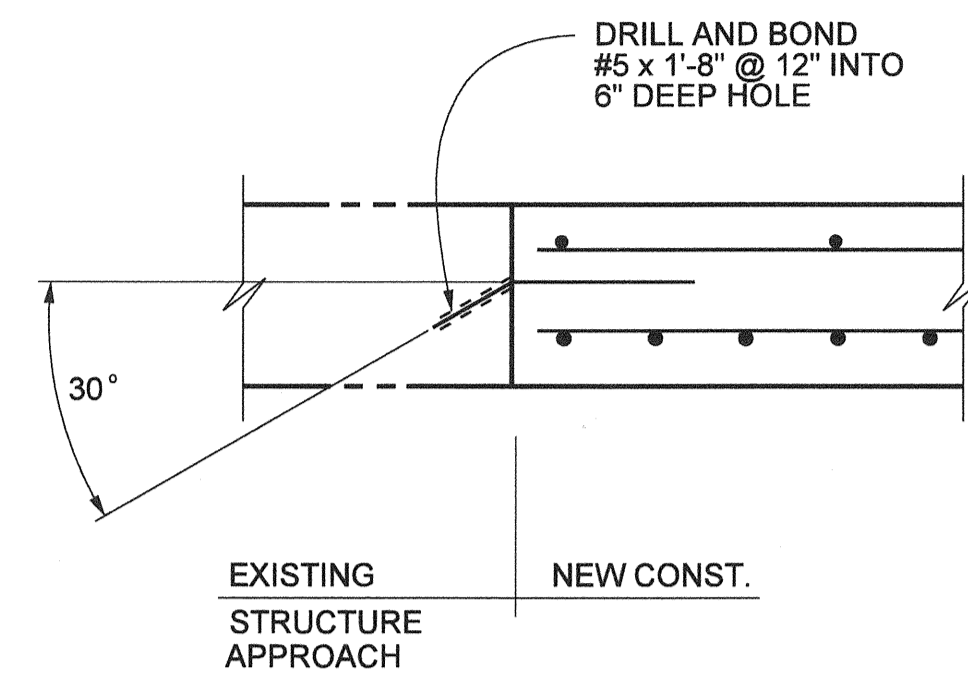
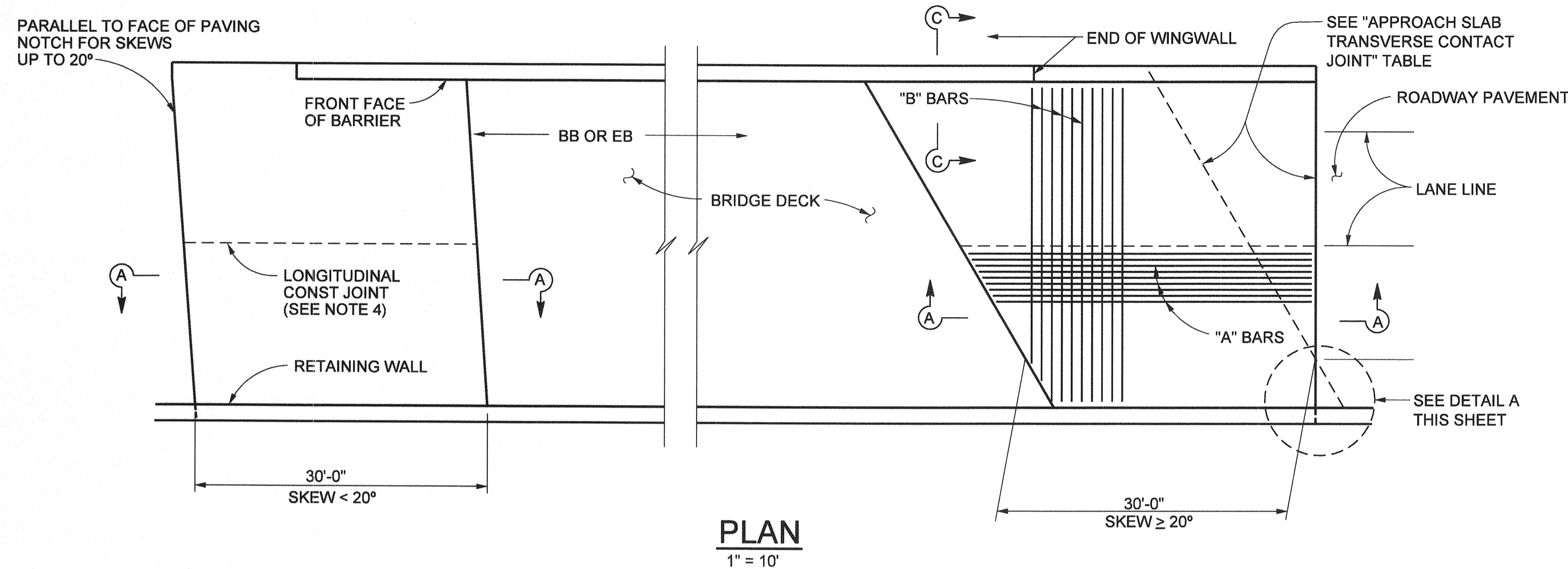
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT		ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)		SHEET 65 OF 72	
SIDEWALK DETAILS					
DESIGNED: <u>J. WANG</u>		CHECKED: <u>F. JIANG</u>		DATE: <u>12/31/06</u>	
DRAWN: <u>J. WANG</u>		DATE: <u>9/19/06</u>		DRAWING NO.	
SCALE: <u>AS SHOWN</u>		DATE: <u>9/19/06</u>		DRAWING NO.	

Date Plotted:

File Name: J:\34092\CADD\Streetsheets\antonio\pkwy-S-24.dgn

Border sheet last modified 09-Nov-1999

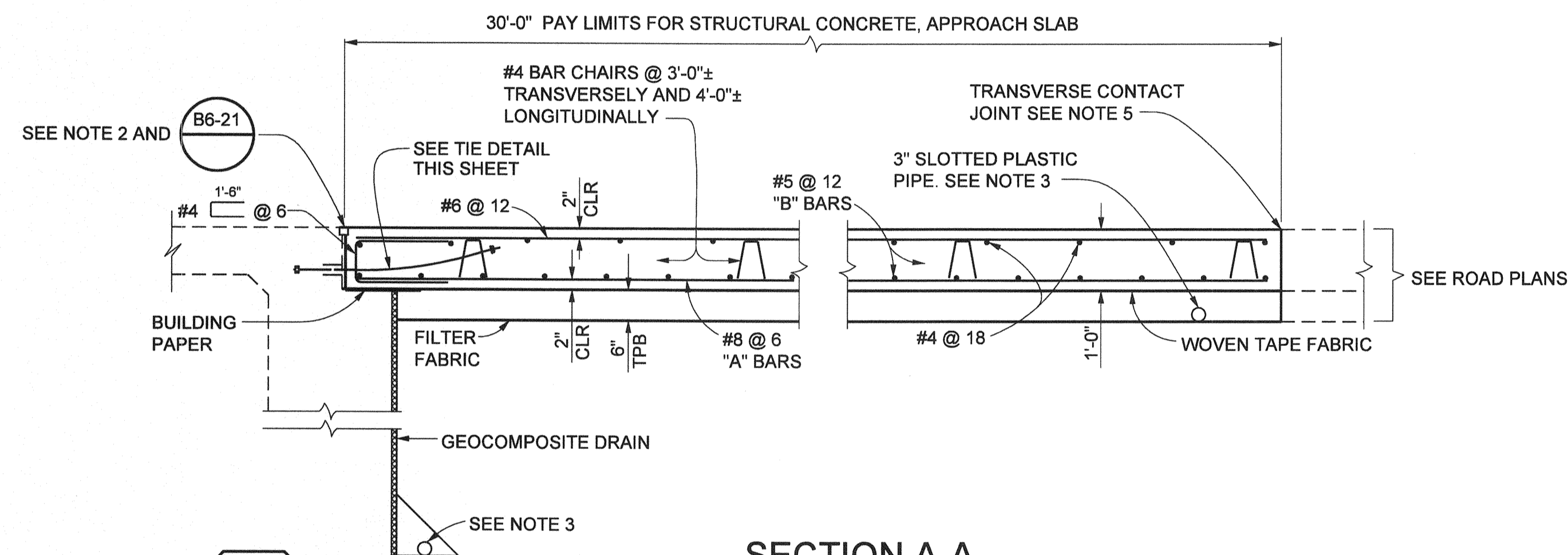


LONGITUDINAL CONSTRUCTION JOINT
NO SCALE

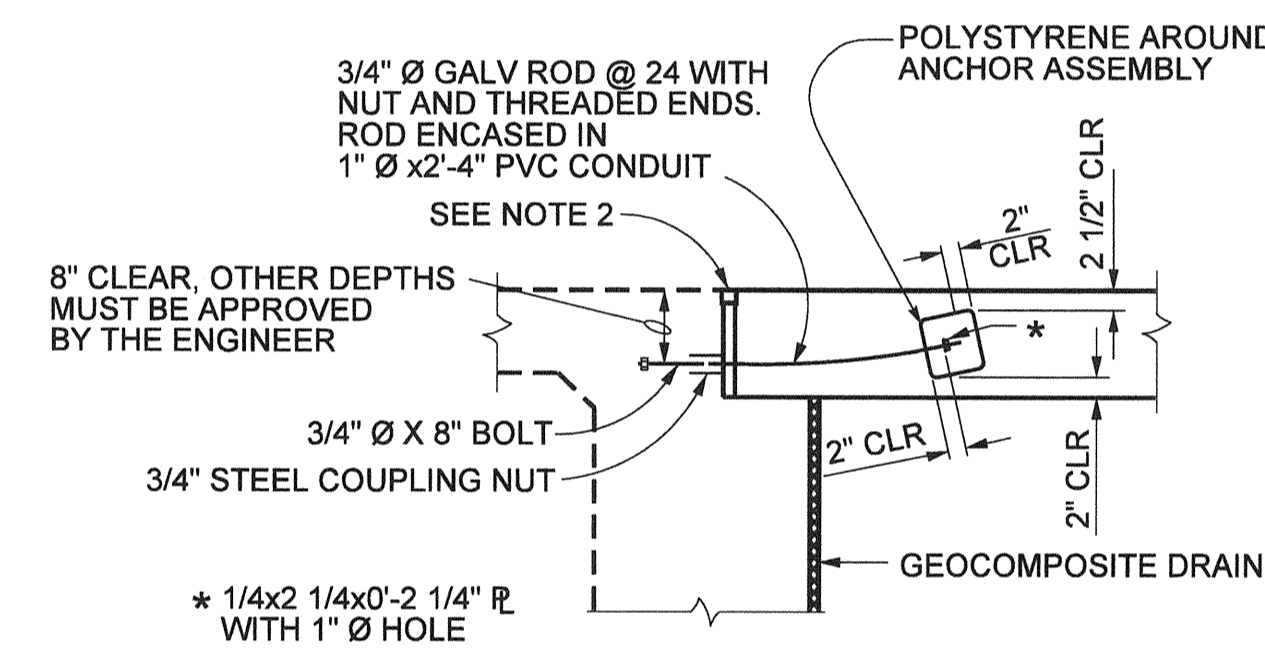
NO AS BUILT CHANGES

AS BUILT

CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009



SECTION A-A
NO SCALE



TIE DETAIL
NO SCALE

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

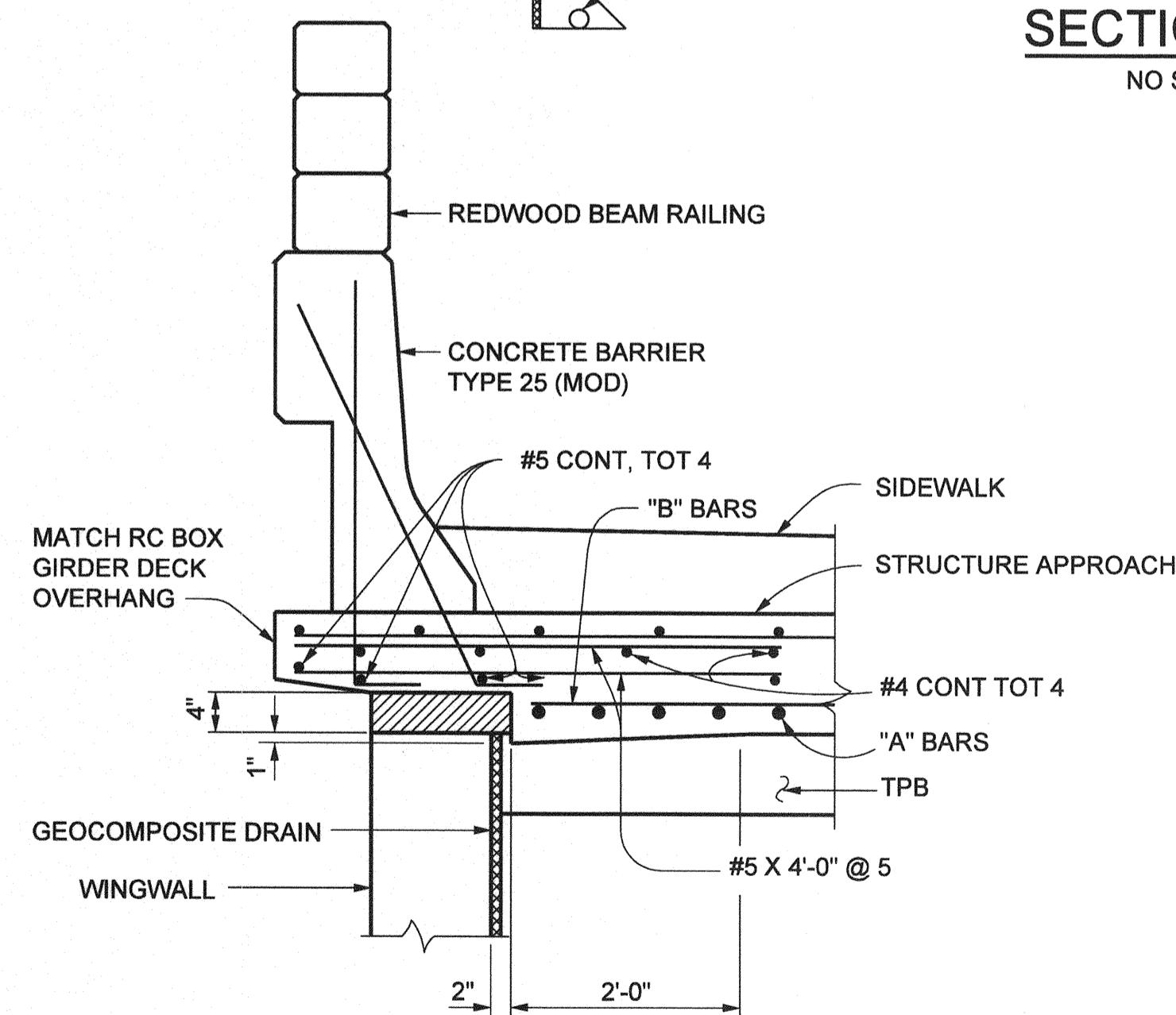
NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
2. FOR DETAILS NOT NOTED OR SHOWN, SEE STRUCTURE PLANS.
3. FOR DRAINAGE DETAILS, SEE "STRUCTURE APPROACH DRAINAGE DETAILS" SHEET.
4. LONGITUDINAL CONSTRUCTION JOINTS, WHEN PERMITTED BY THE ENGINEER, SHALL BE LOCATED ON LANE LINES.
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.

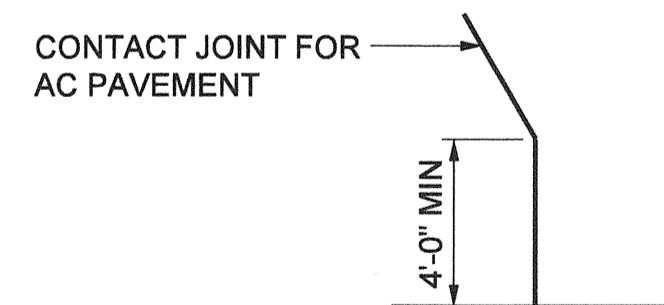
LEGEND

POLYSTYRENE TO BE REMOVED.

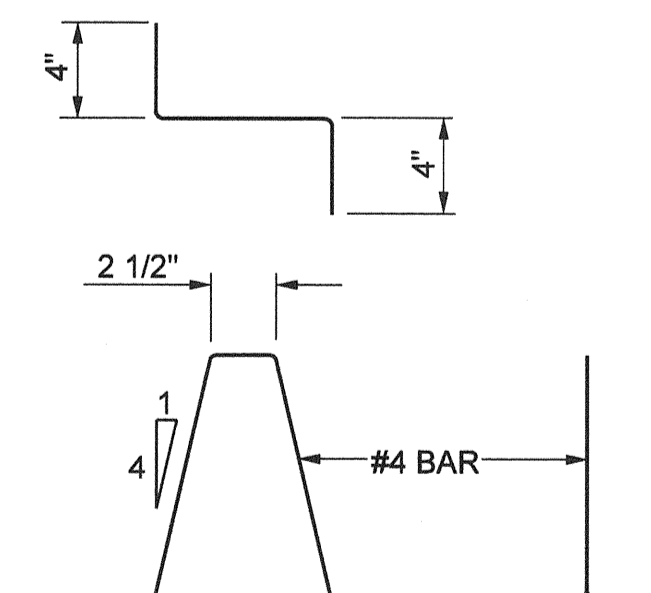
1 1/2 0 2
3 inches on original drawing



SECTION C-C
3/4" = 1'-0"



DETAIL A
NO SCALE



BAR CHAIR DETAIL
1 1/2" = 1'-0"

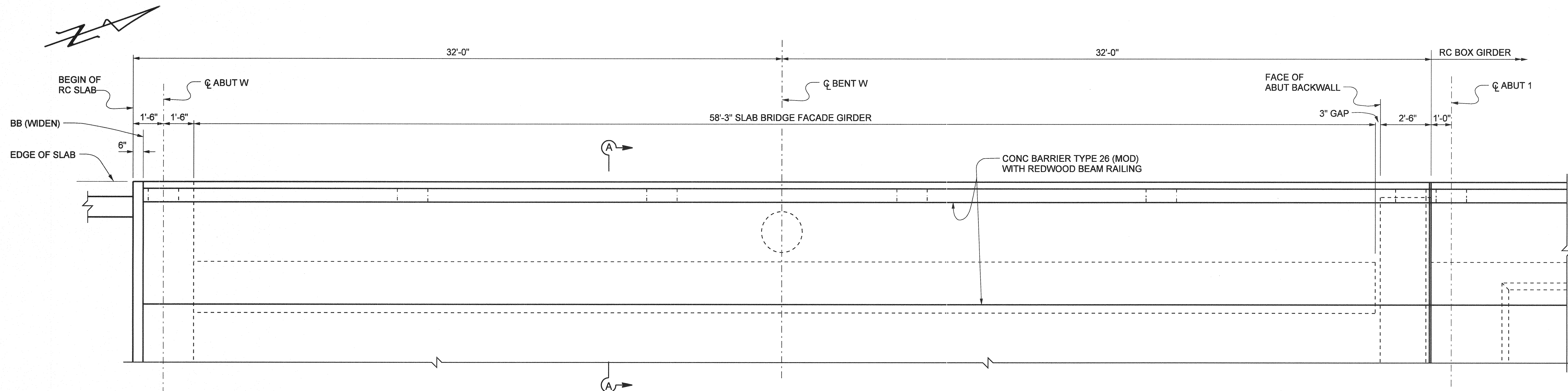
PLANS PREPARED BY:
HNTB
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT		ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)		STRUCTURE APPROACH TYPE N (30D)	
MARK	DATE	DESCRIPTION			
REVISIONS					
PREPARED UNDER RESPONSIBLE CHARGE OF:					
DESIGNED	J. WANG	CHECKED	F. JEANG	SHEET	
DRAWN	J. WANG	DATE		66	
SCALE	AS SHOWN	DATE	9/19/06	DRAWING NO.	
				OF 72	

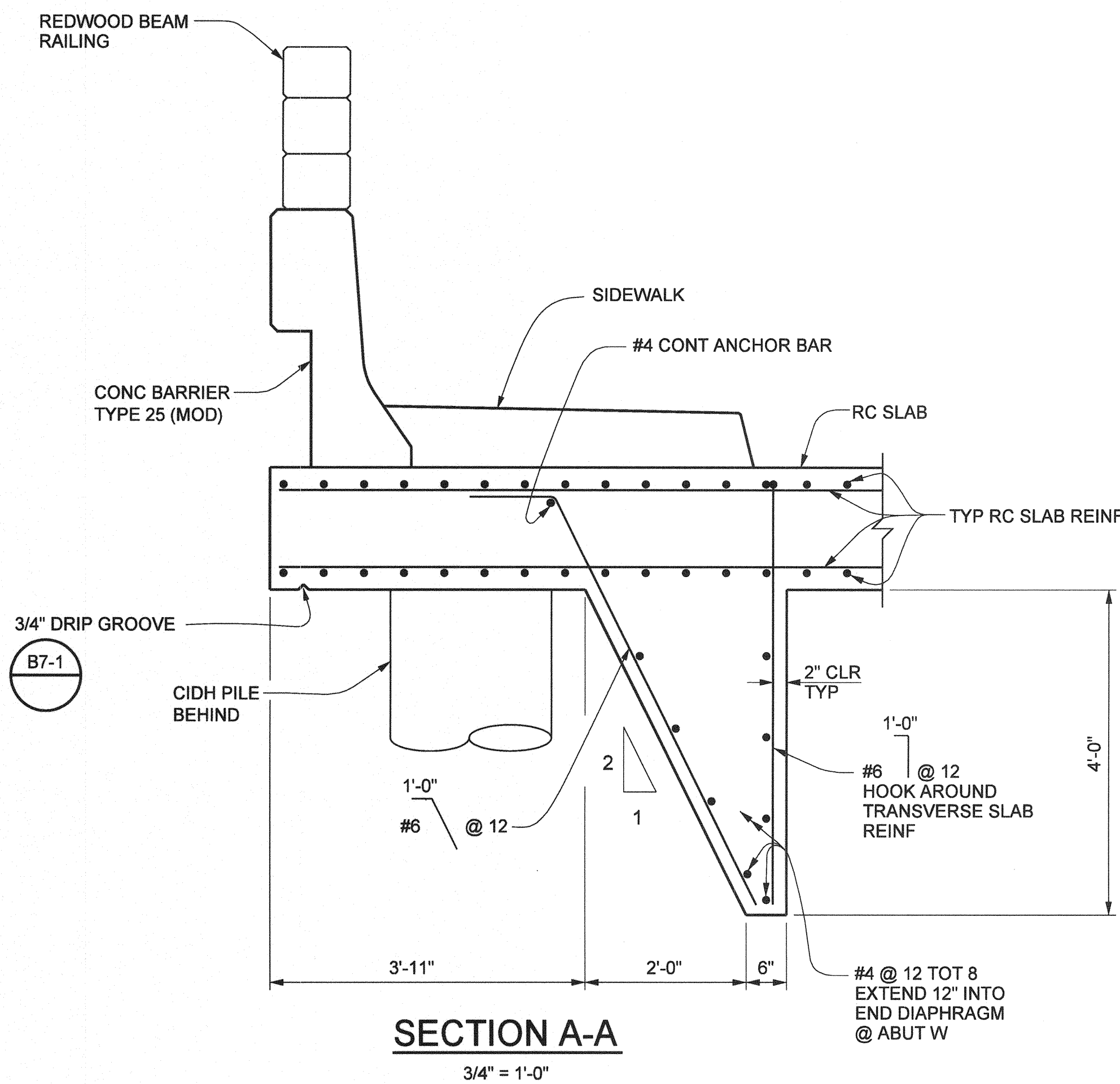
Date Plotted:

File Name: J:\34092\CADD\Structs\sheet\antoniopkwy-S-25.dgn

Border sheet last modified 09-Nov-1999

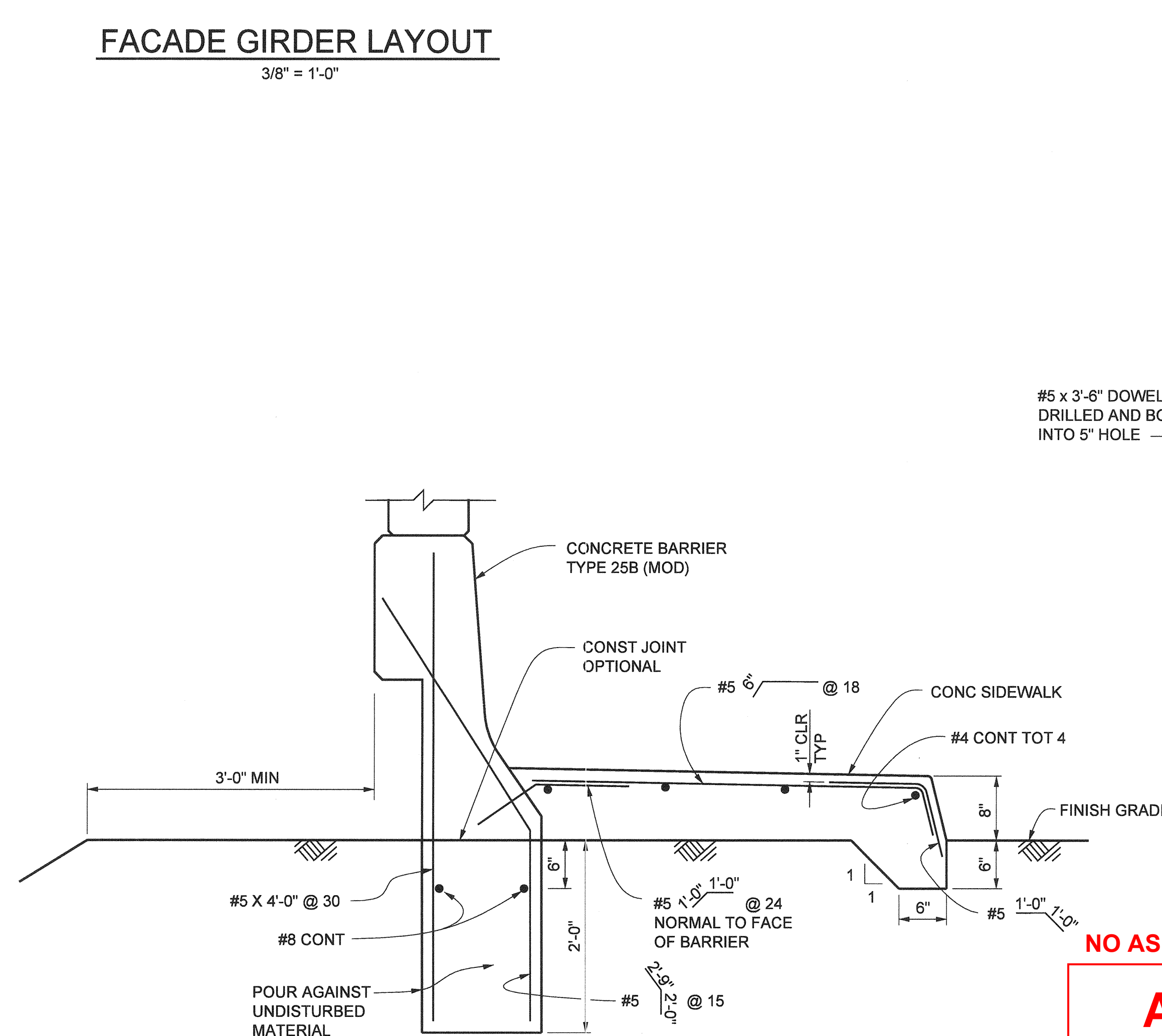


FACADE GIRDER LAYOUT
3/8" = 1'-0"

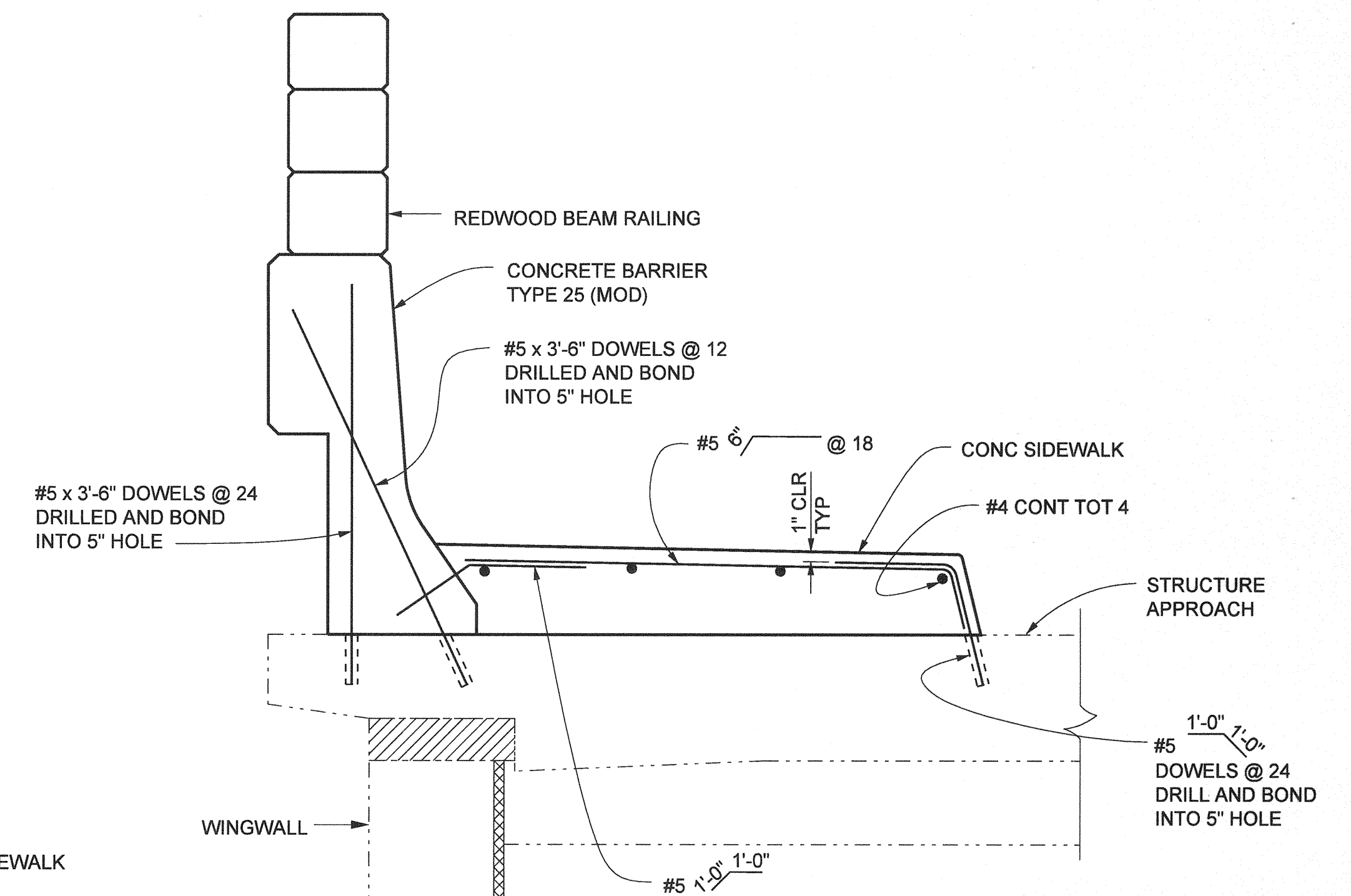


SECTION A-A
3/4" = 1'-0"

- NOTES:**
1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
 2. FOR LOCATION OF SECTION B-B AND C-C, SEE "SIDEWALK DETAIL" SHEET.



SECTION B-B
1" = 1'-0"



SECTION C-C
1" = 1'-0"

NO AS BUILT CHANGES

AS BUILT

CORRECTION BY: MN

CONTRACT NO.: ER28121

DATE: 12/30/2009

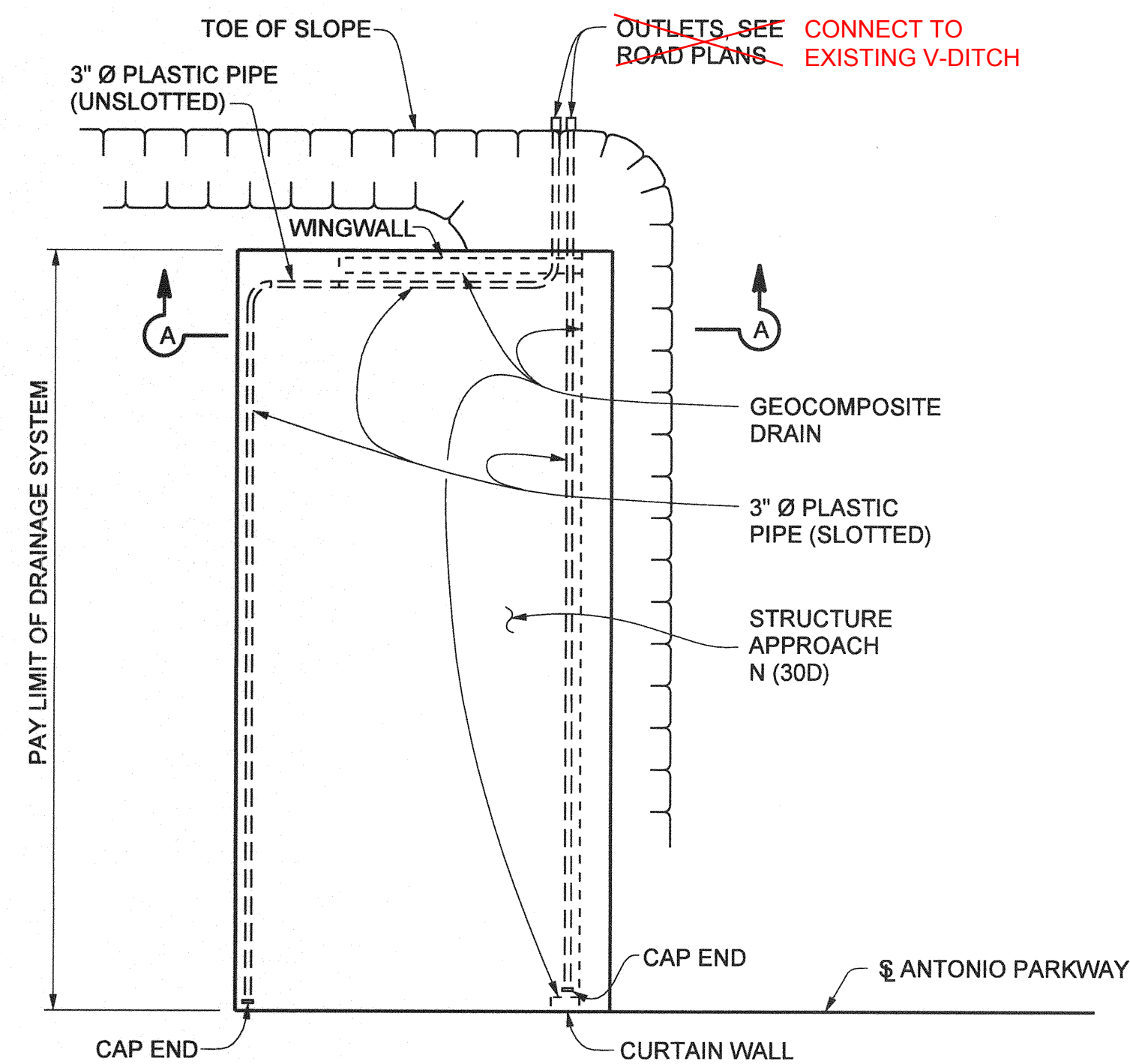
PLANS PREPARED BY:
HNTB
HNTB Corporation
200 E. SANDPOINT AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

MARK		DATE		DESCRIPTION	
REVISIONS					
PREPARED UNDER RESPONSIBLE CHARGE OF:					
DESIGNED: <u> J. WANG </u> DRAWN: <u> N. MORALES </u> SCALE: <u> AS SHOWN </u> DATE: <u> 9/19/06 </u>					
CHECKED: <u> F. JEANG </u> DATE: <u> 9/19/06 </u>					
ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN) FACADE GIRDER DETAILS					
SHEET					68
OF 72					

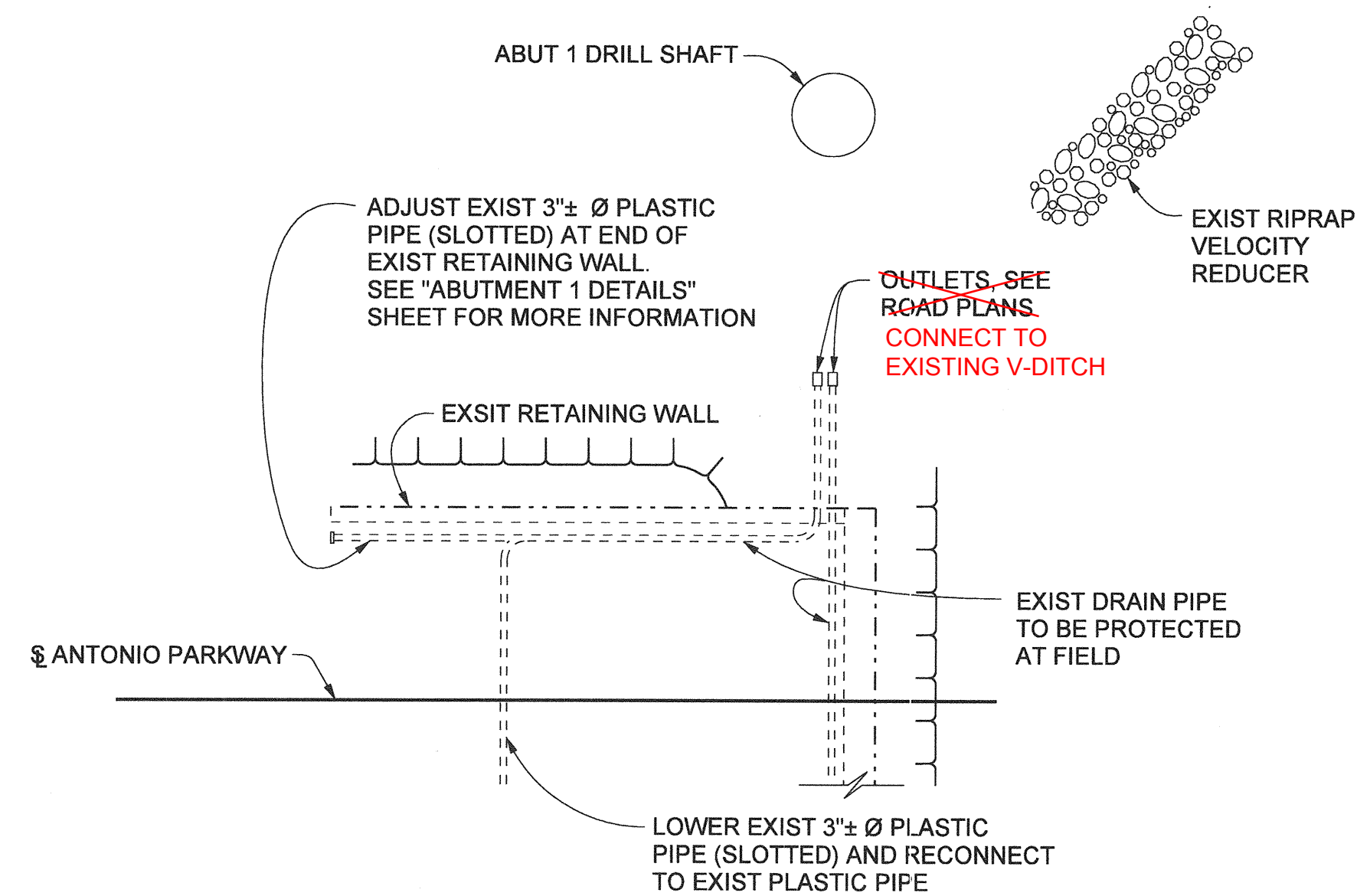
Date Plotted:

File Name: J:\34092\CADD\Sto\sheet\antonio\pkwy-S-27.dgn

Border sheet last modified 08-Nov-1999



ABUTMENT W

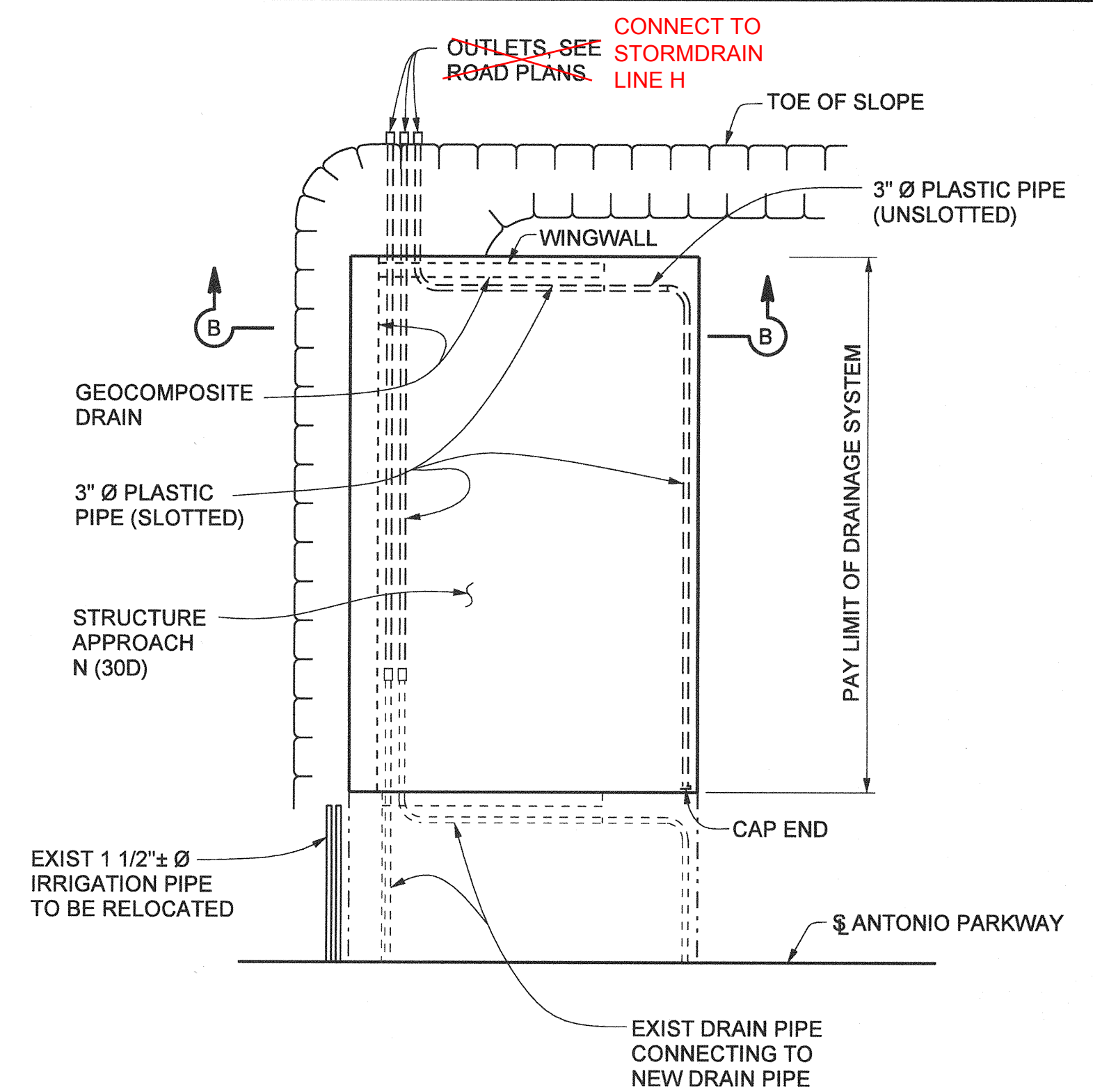


ABUTMENT 1

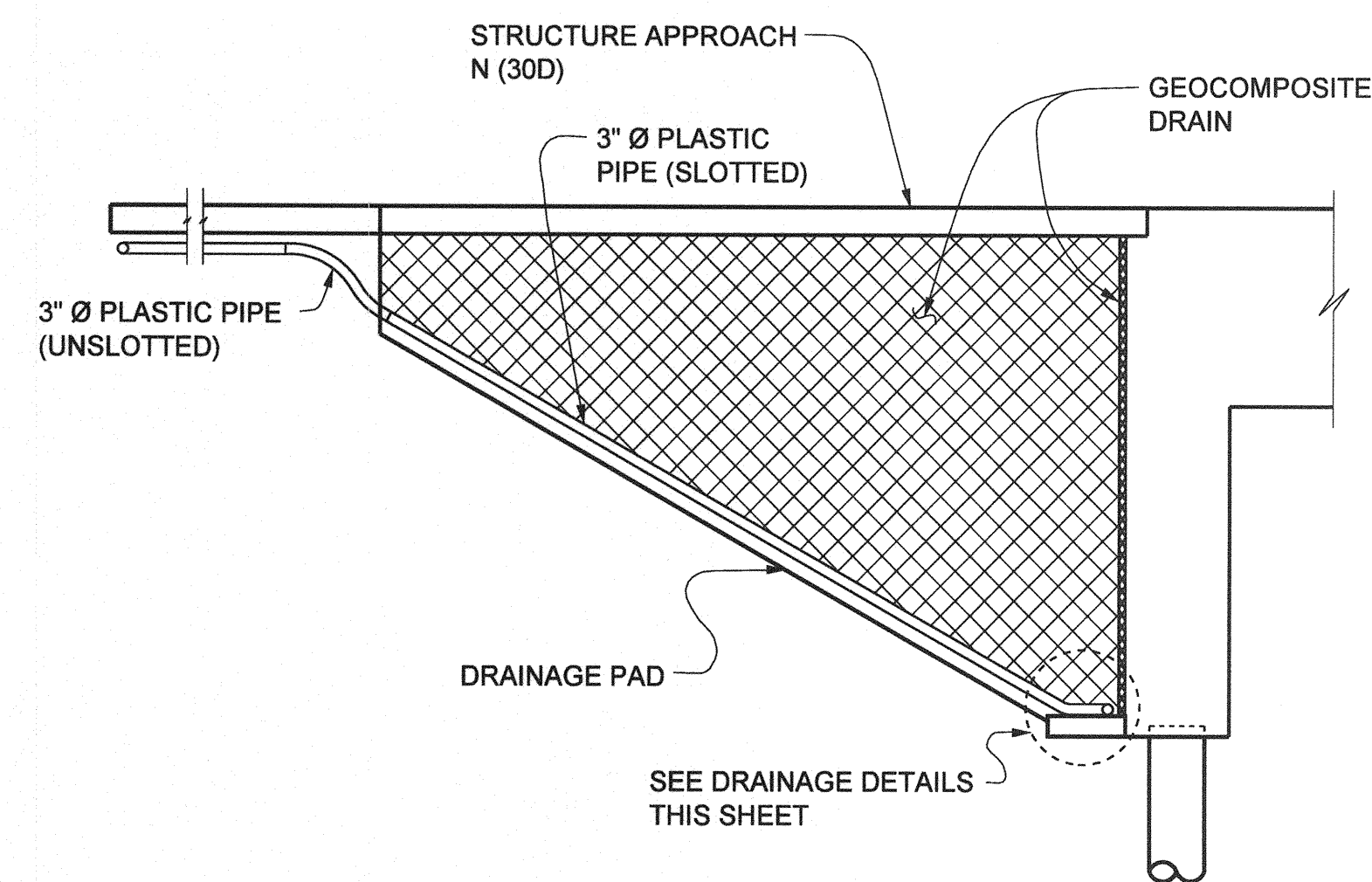
EXIST STRUCTURE APPROACH NOT SHOWN FOR CLARITY

STRUCTURE APPROACH DRAINAGE PLAN

NO SCALE

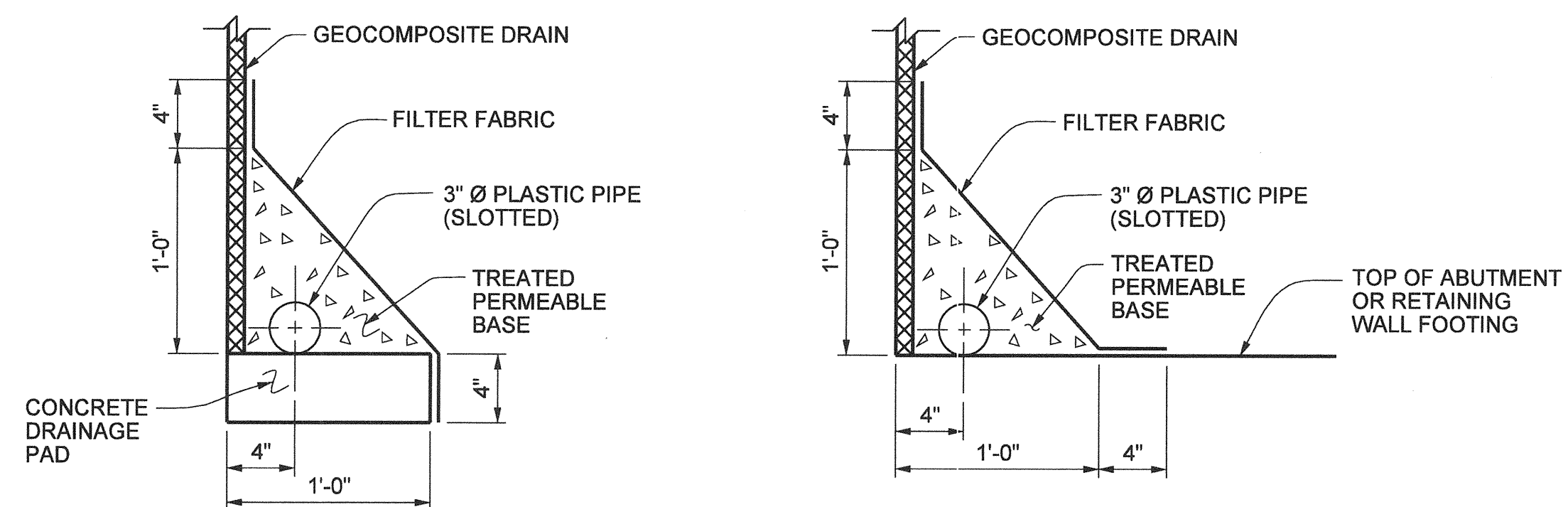


ABUTMENT 4



SECTION A-A

1/4" = 1'-0"



WITHOUT FOOTING

WITH FOOTING

DRAINAGE DETAILS

1 1/2" = 1'-0"

NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
2. BENTS AND JUNCTIONS IN 3" PLASTIC PIPE ARE 30" RADIUS MINIMUM.

LEGEND

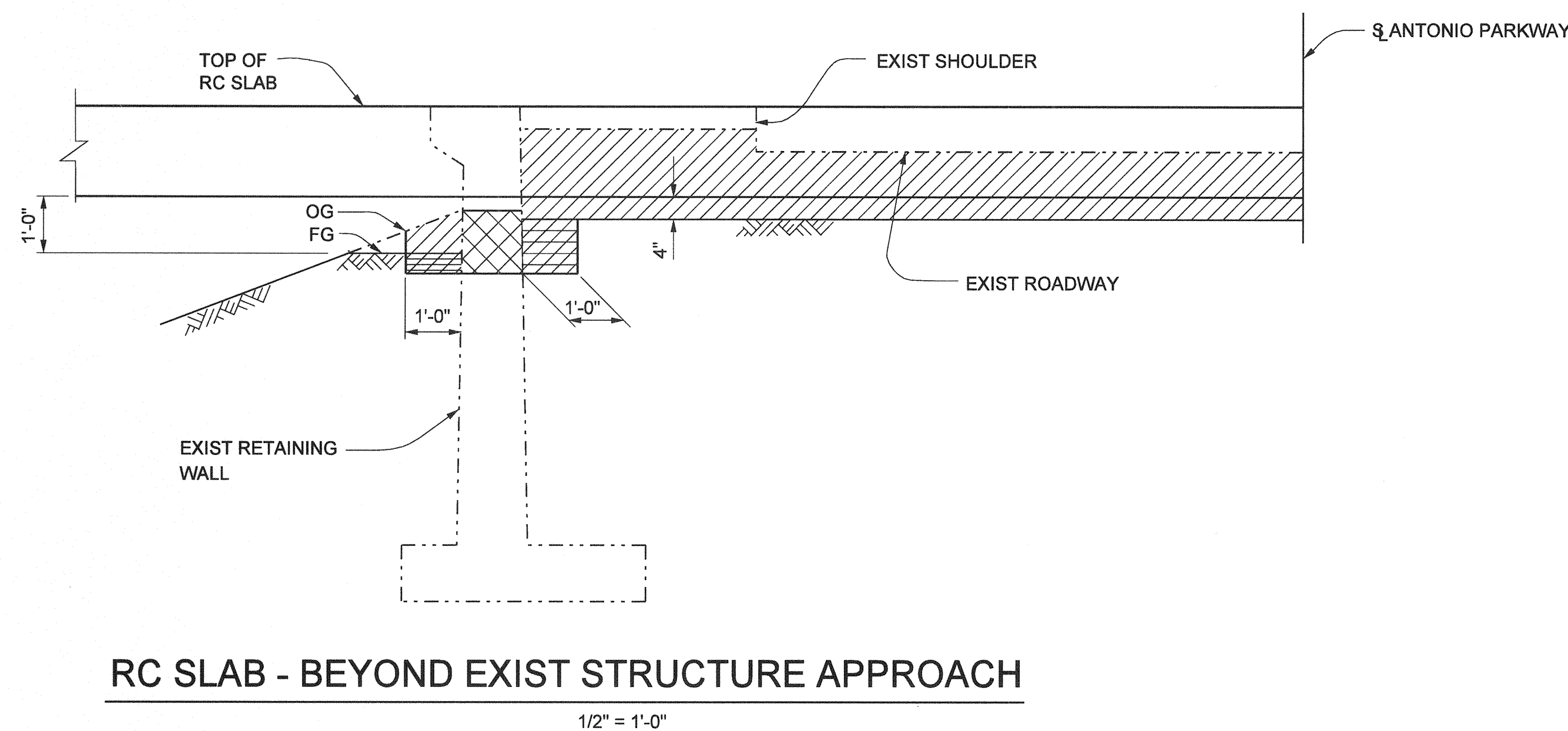
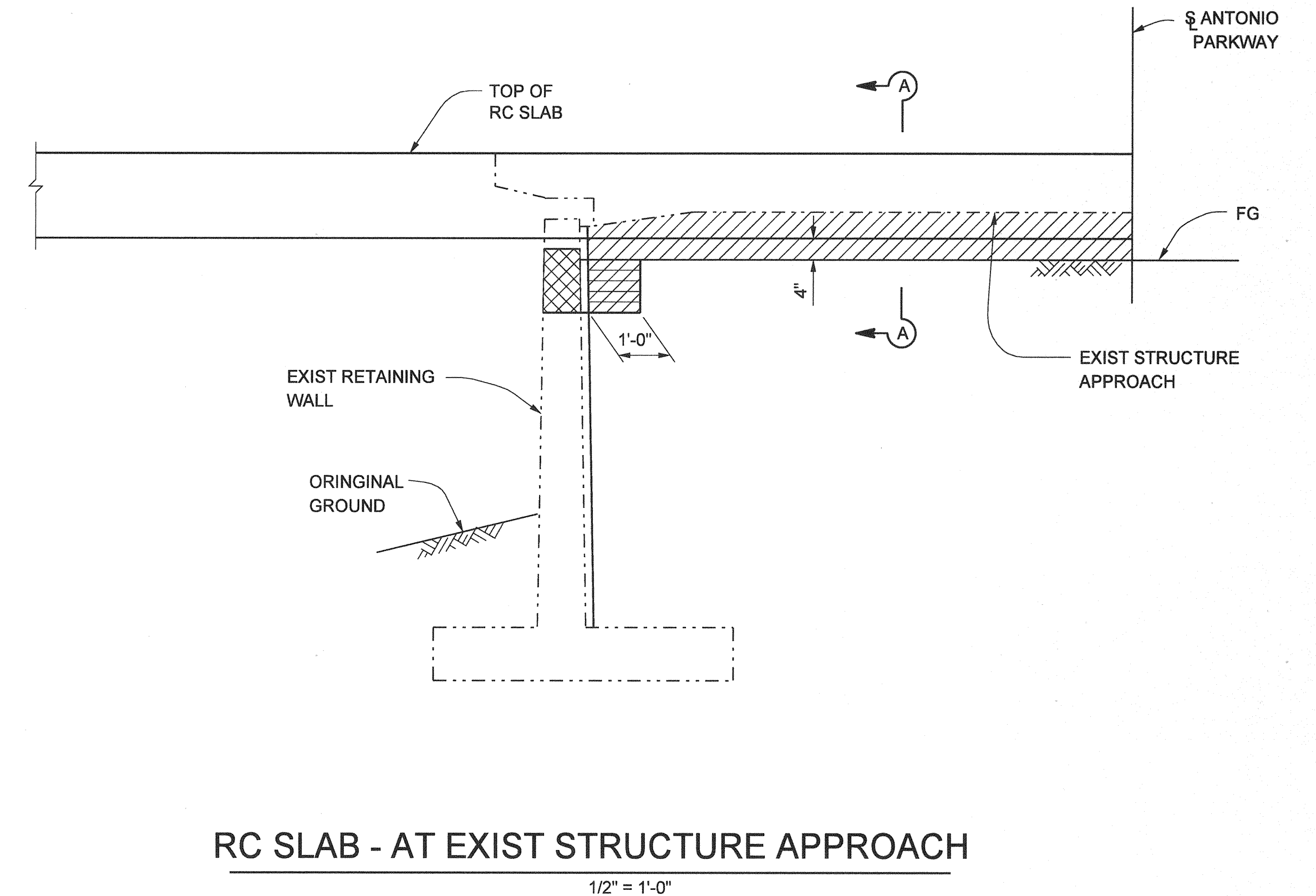
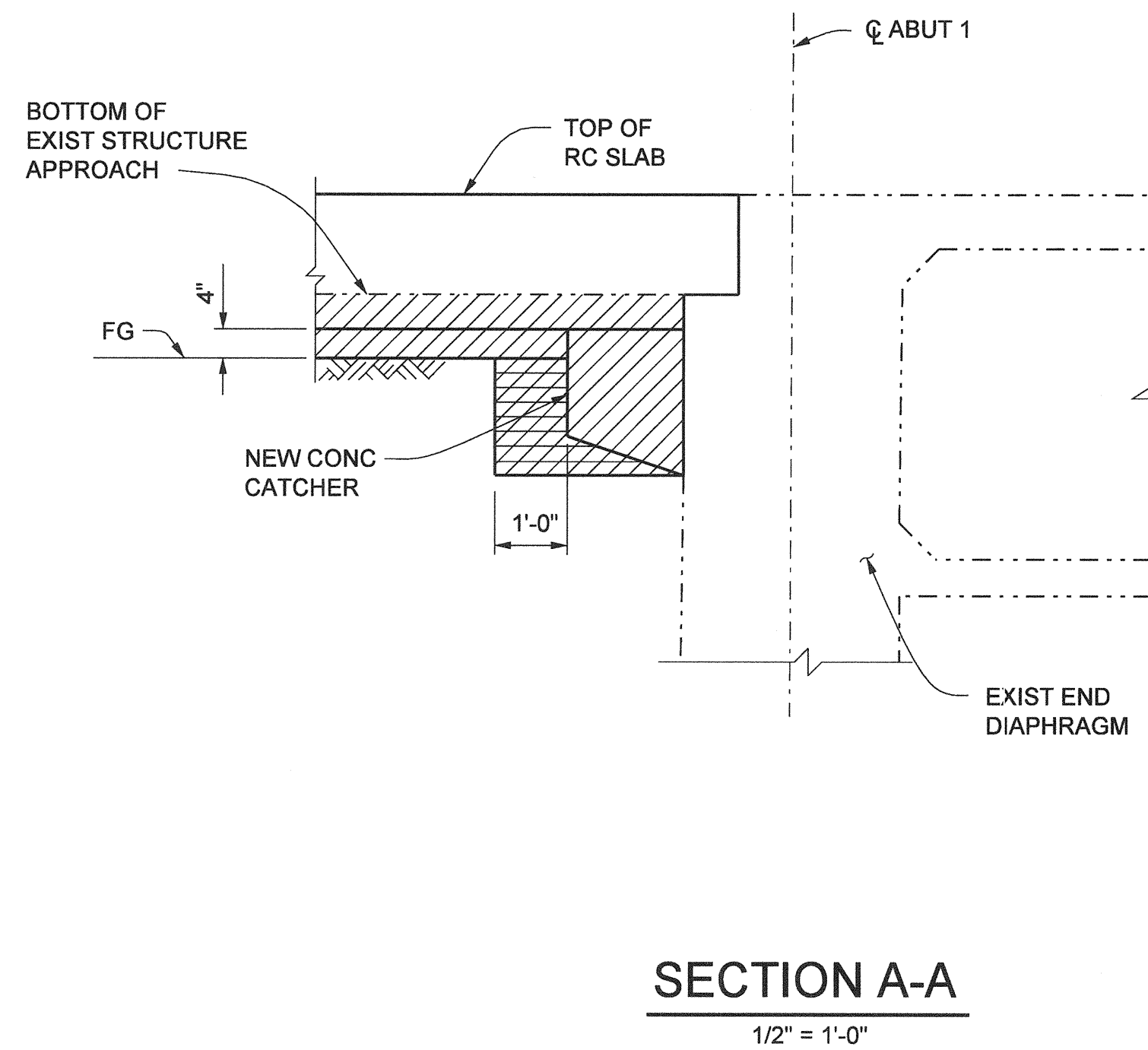
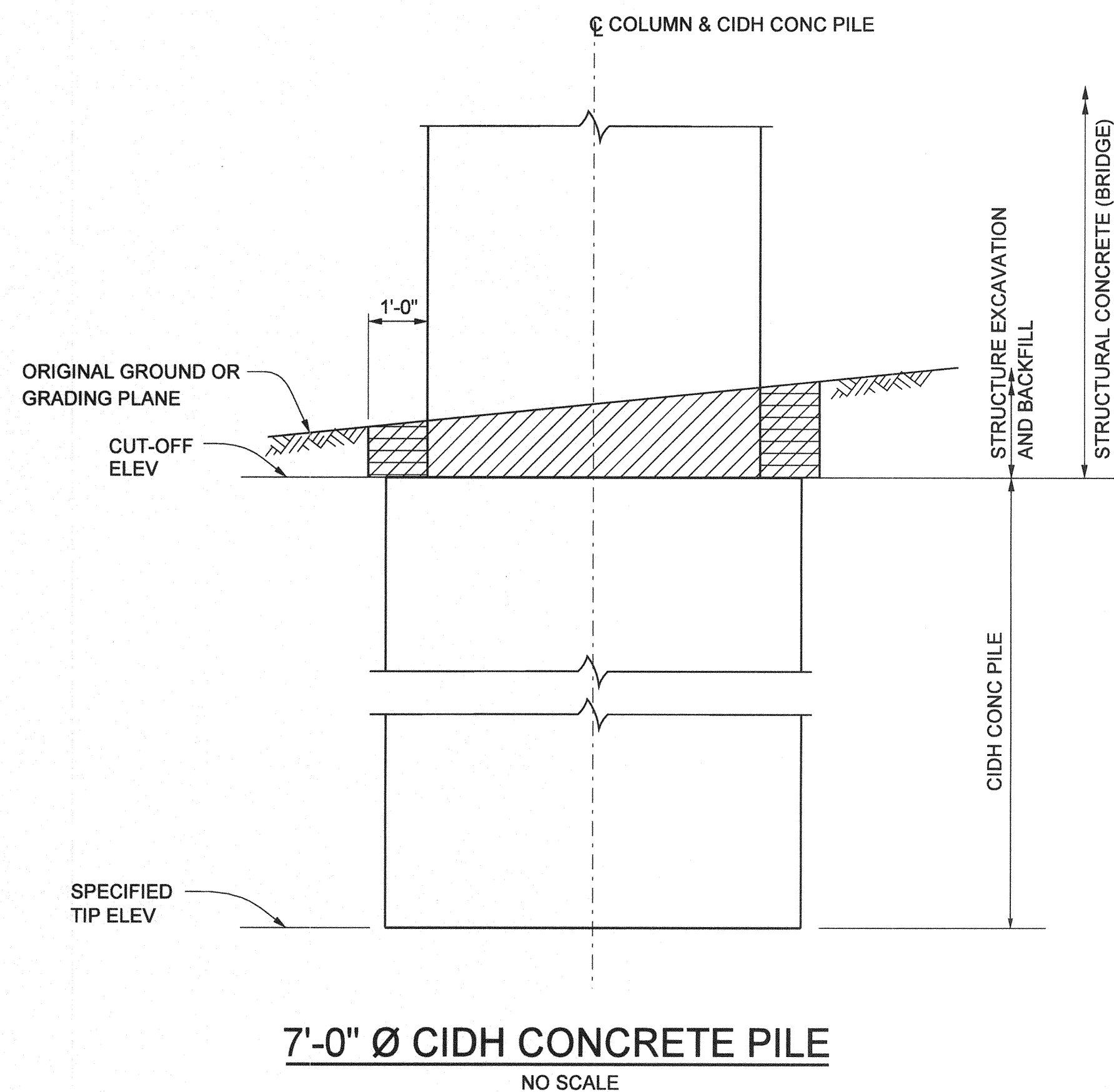
- DENOTES EXISTING STRUCTURE
- DENOTES NEW STRUCTURE

AS BUILT

CORRECTION BY: MN
 CONTRACT NO.: ER28121
 DATE: 12/30/2009

PLANS PREPARED BY:
HNTB
 HNTB Corporation
 200 E. SANDPOINT AVENUE, SUITE 200
 SANTA ANA, CALIFORNIA 92707
 TEL (714) 460-1600 FAX (714) 460-1610

ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT		ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)	
STRUCTURE APPROACH DRAINAGE DETAILS			
DESIGNED <u>J. WANG</u>	CHECKED <u>F. JEANG</u>	SHEET 67 OF 72	
DRAWN <u>J. ZHANG</u>	DATE <u>9/18/08</u>	DRAWING NO.	



LEGEND	
-----	DENOTES EXISTING STRUCTURE
————	DENOTES NEW STRUCTURE
	STRUCTURE EXCAVATION
	STRUCTURE BACKFILL
	REMOVE & REPLACE CONCRETE

NO AS BUILT CHANGES

AS BUILT

CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009

NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
2. SEE "ISOLATION CASING DETAILS" SHEET AND CALTRANS STANDARD PLAN A62C FOR OTHER LIMIT FOR STRUCTUA EXCAVATION AND BACKFILL.

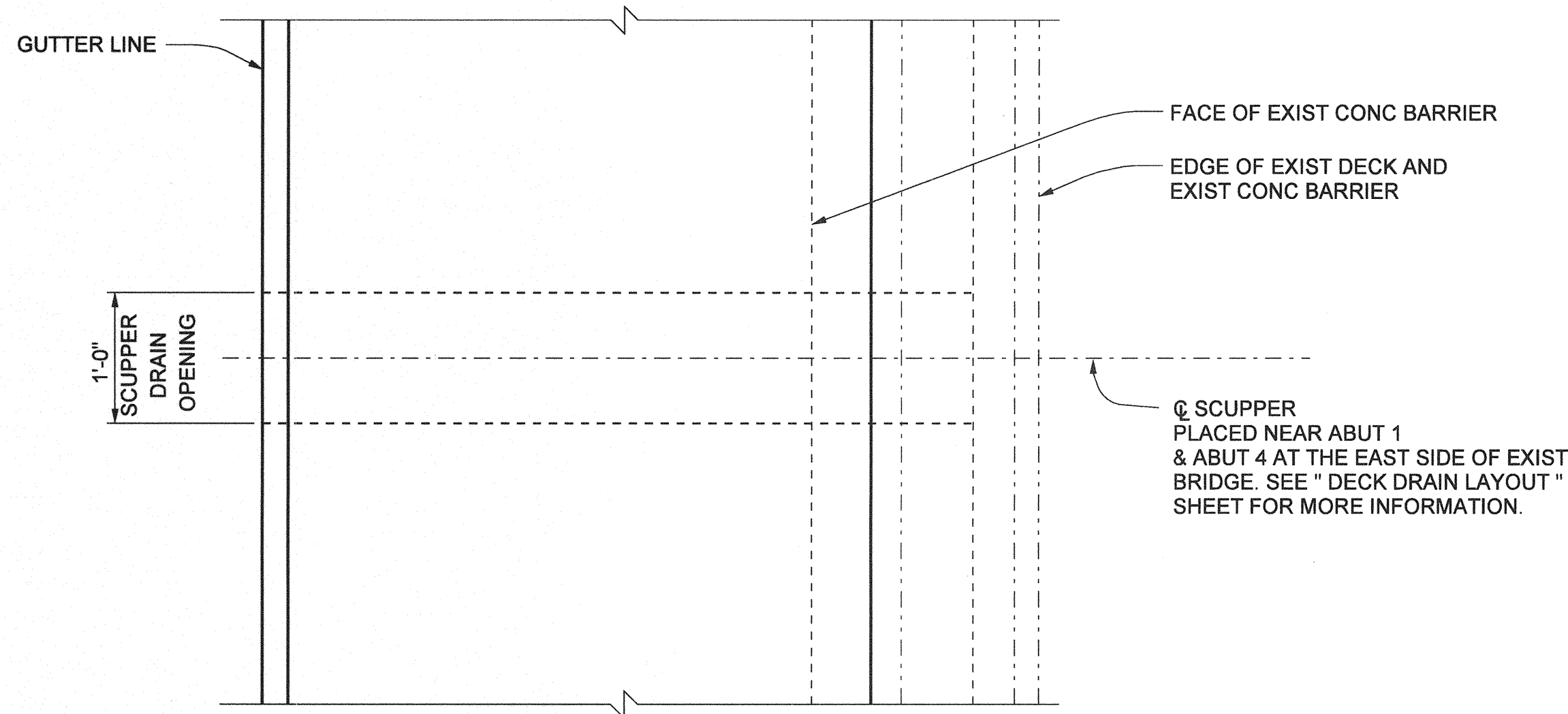
PLANS PREPARED BY:
HNTB
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT		ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)	
LIMIT FOR STRUCTURAL EXCAVATION AND BACKFILL			
DESIGNED <u>J. WANG</u>	DRAWN <u>J. WANG</u>		CHECKED <u>E. JEANG</u>
DATE <u>9/19/06</u>		DATE <u>10/1/06</u>	
SCALE <u>AS SHOWN</u>	DATE <u>9/19/06</u>	DRAWING NO. <u>69</u>	
SHEET <u>69</u>		OF 72	

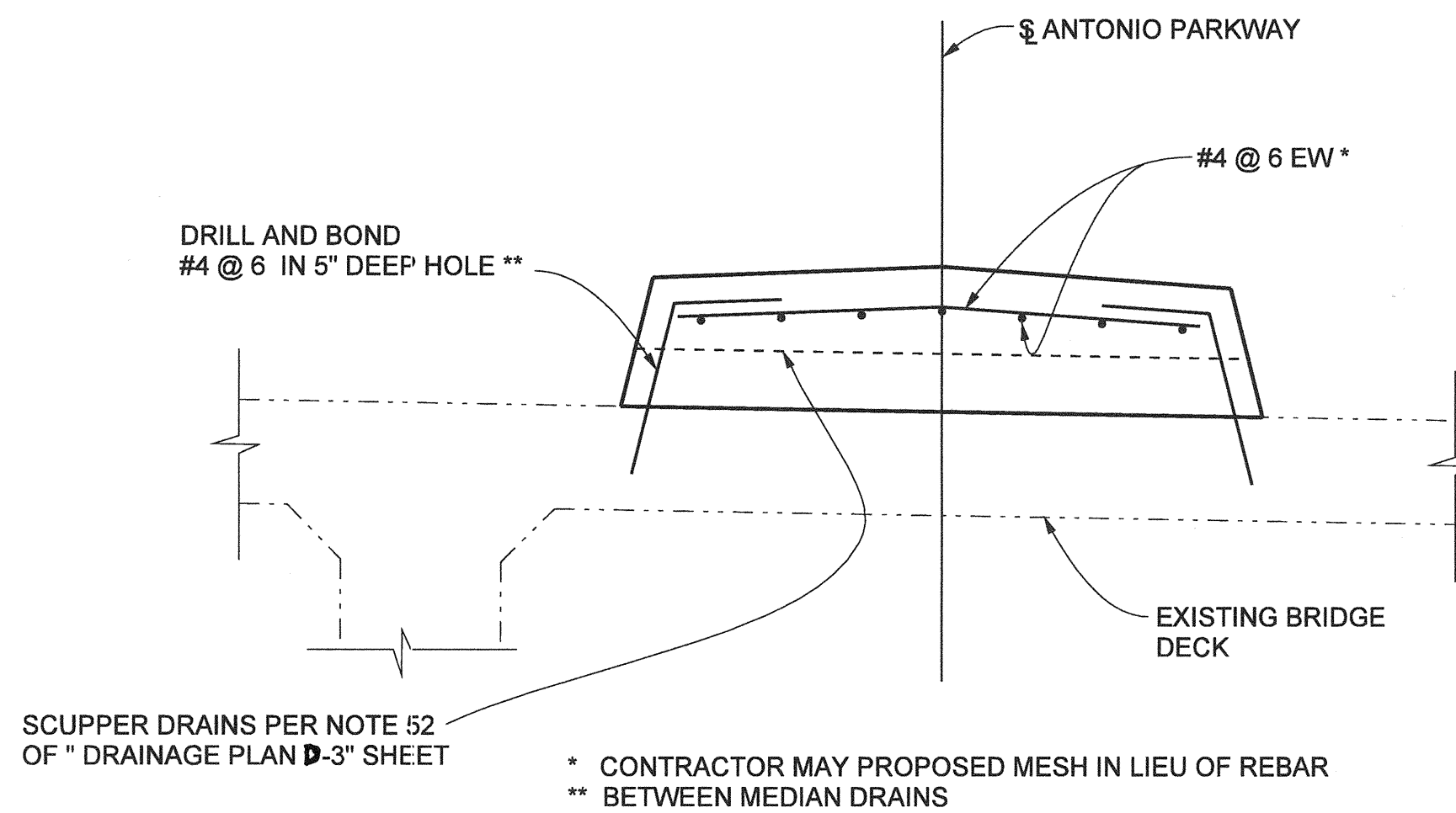
Date Plotted:

File Name: J:\34092\CADD\Struct\sheet\antonio\pkwy-S-28.dgn

Border sheet last modified 09-Nov-1999



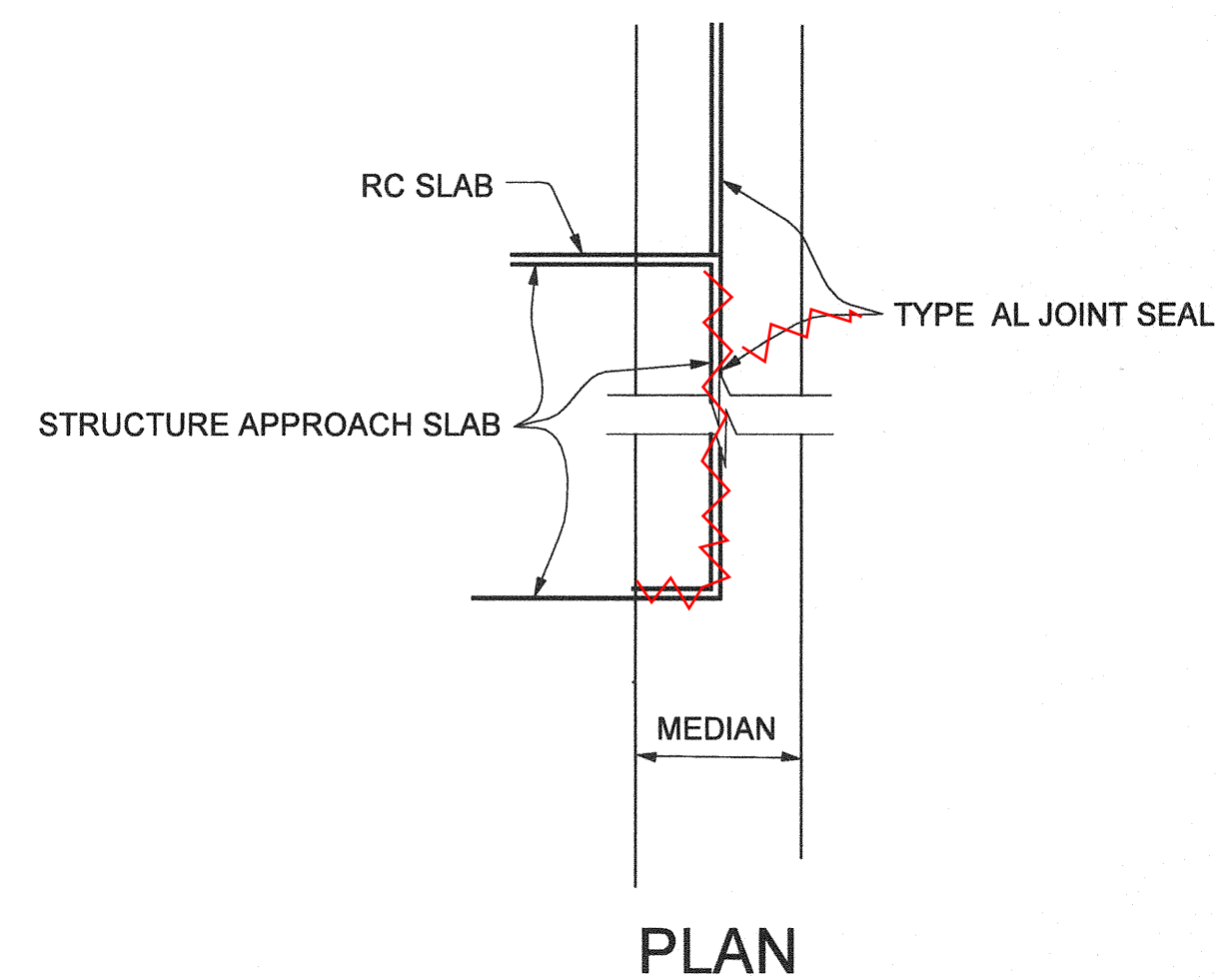
PLAN



RAISED MEDIAN DETAIL ON BRIDGE

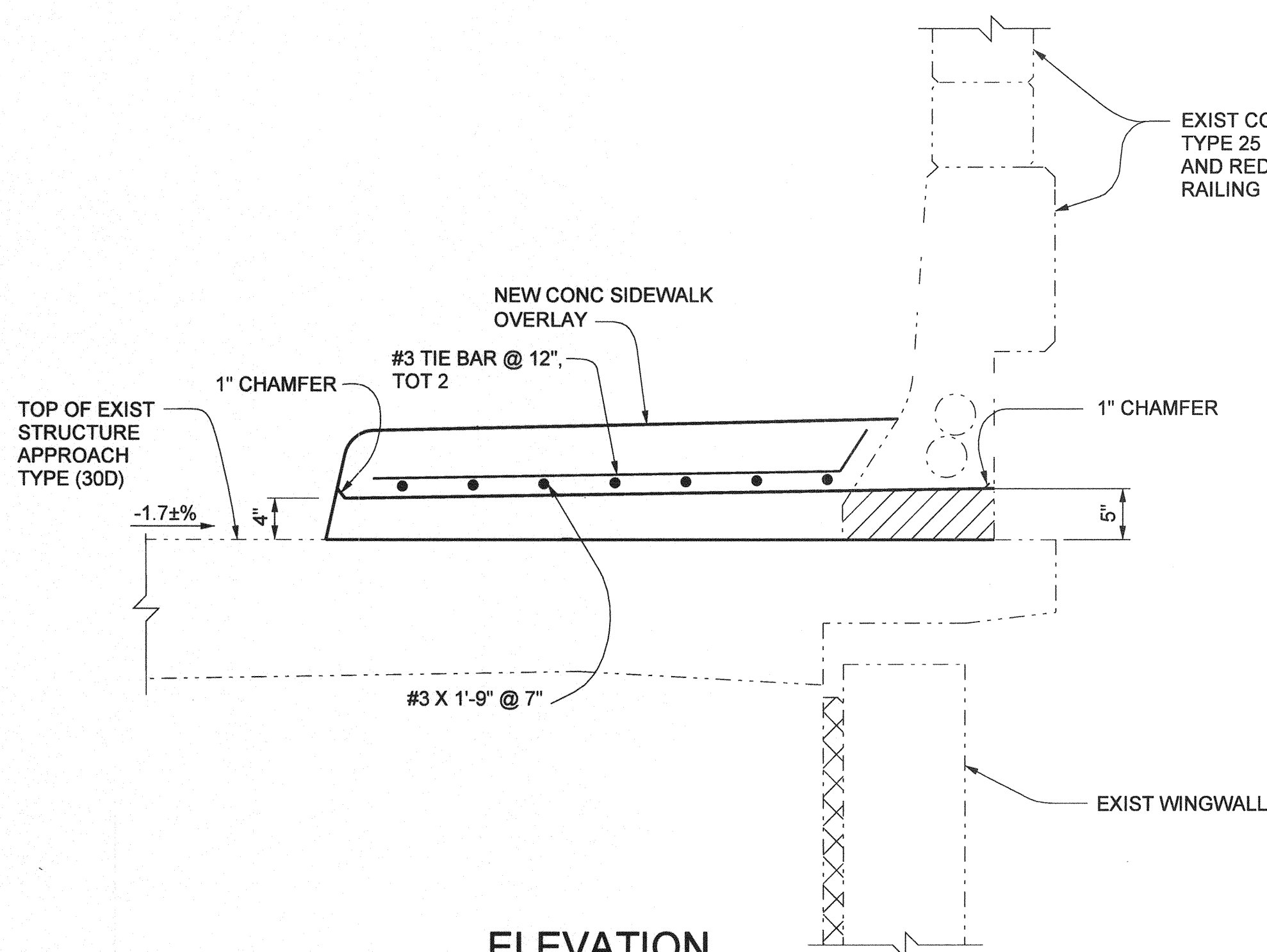
1" = 1'-0"

FOR UNDER MEDIAN DRAIN, SEE CONSTRUCTION NOTE 52 ON SHEET NO. 13



PLAN

TYPE AL JOINT SEAL



ELEVATION

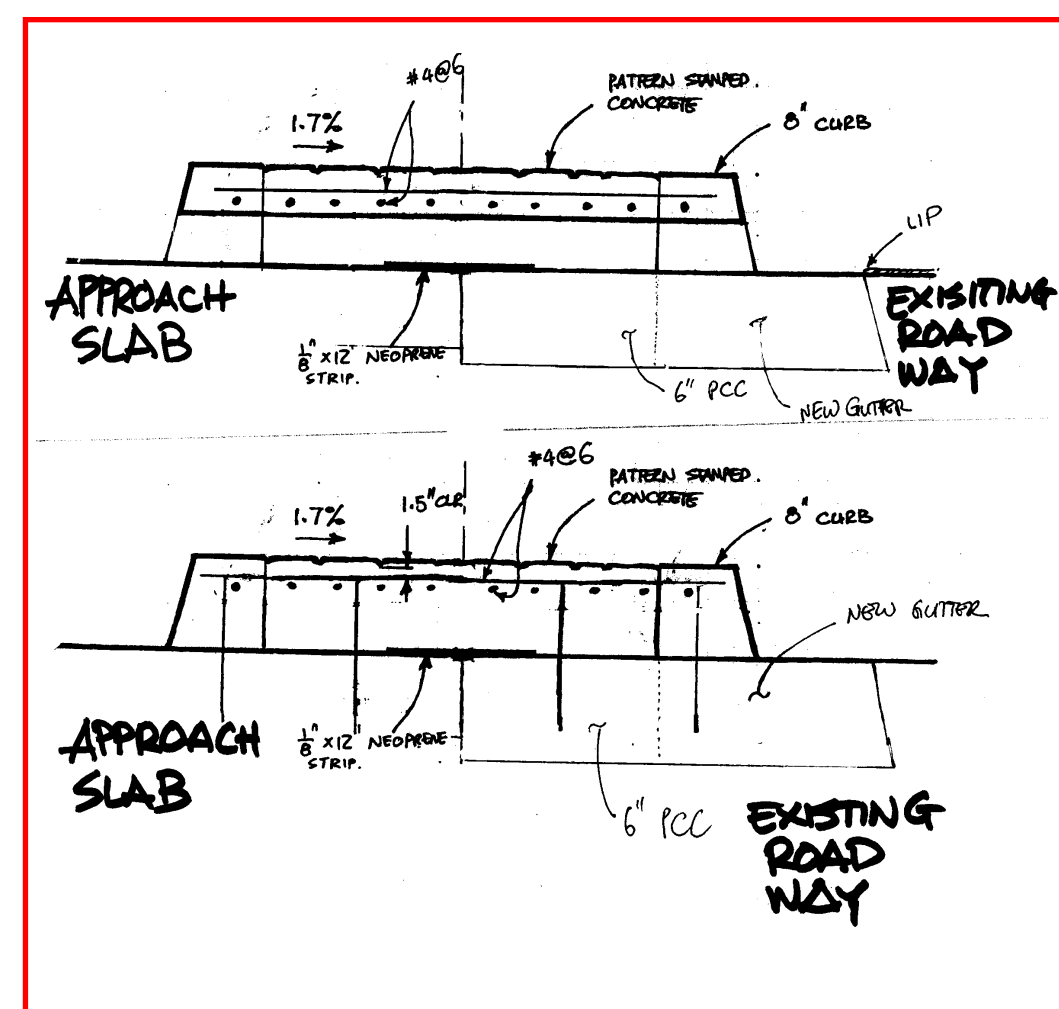
SCUPPER DRAIN DETAIL ON APPROACH SLAB

1" = 1'-0"

FOR SIDEWALK REINF, SEE "SIDEWALK DETAILS" SHEET SECTION A-A

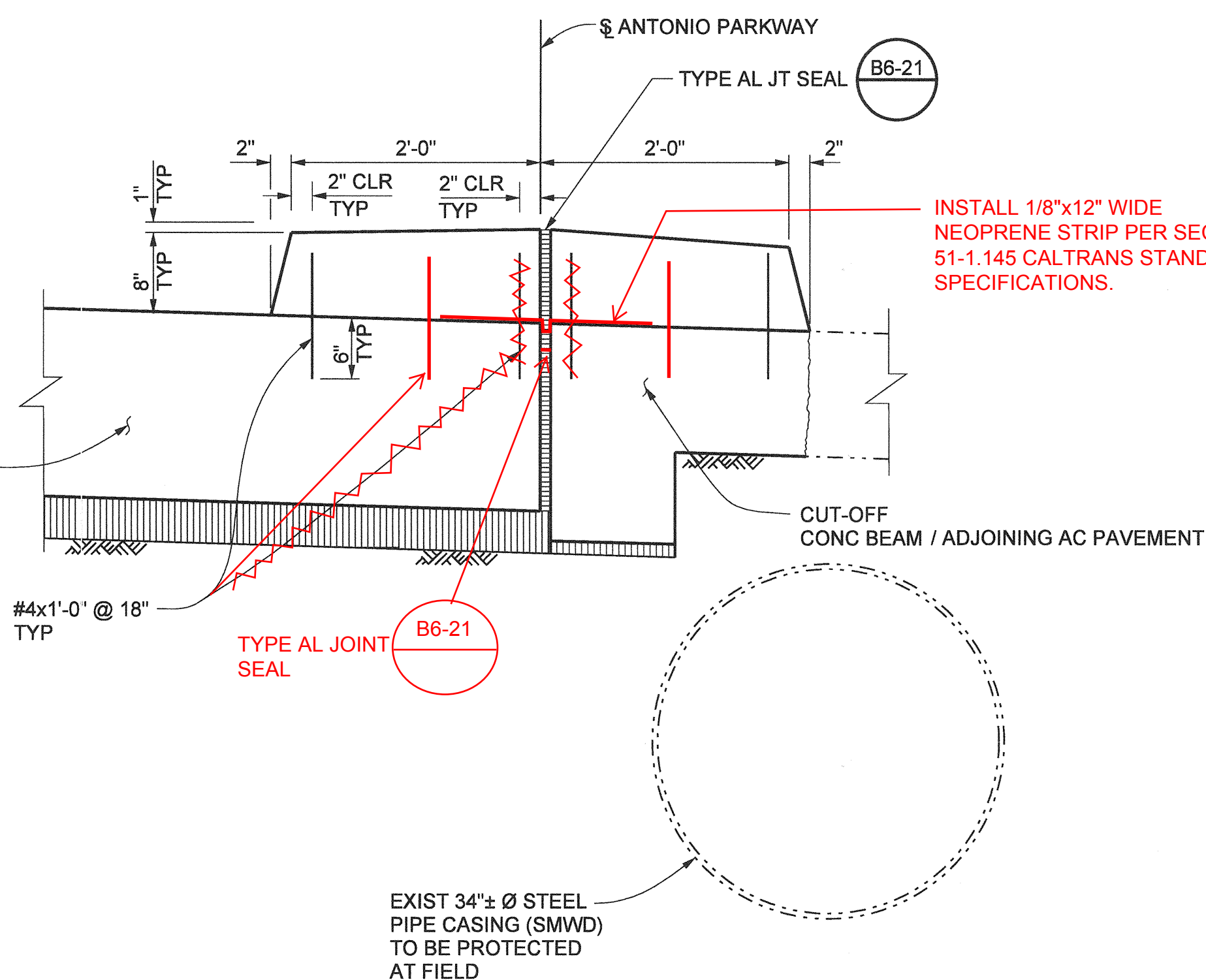
NOTES:

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



LEGEND

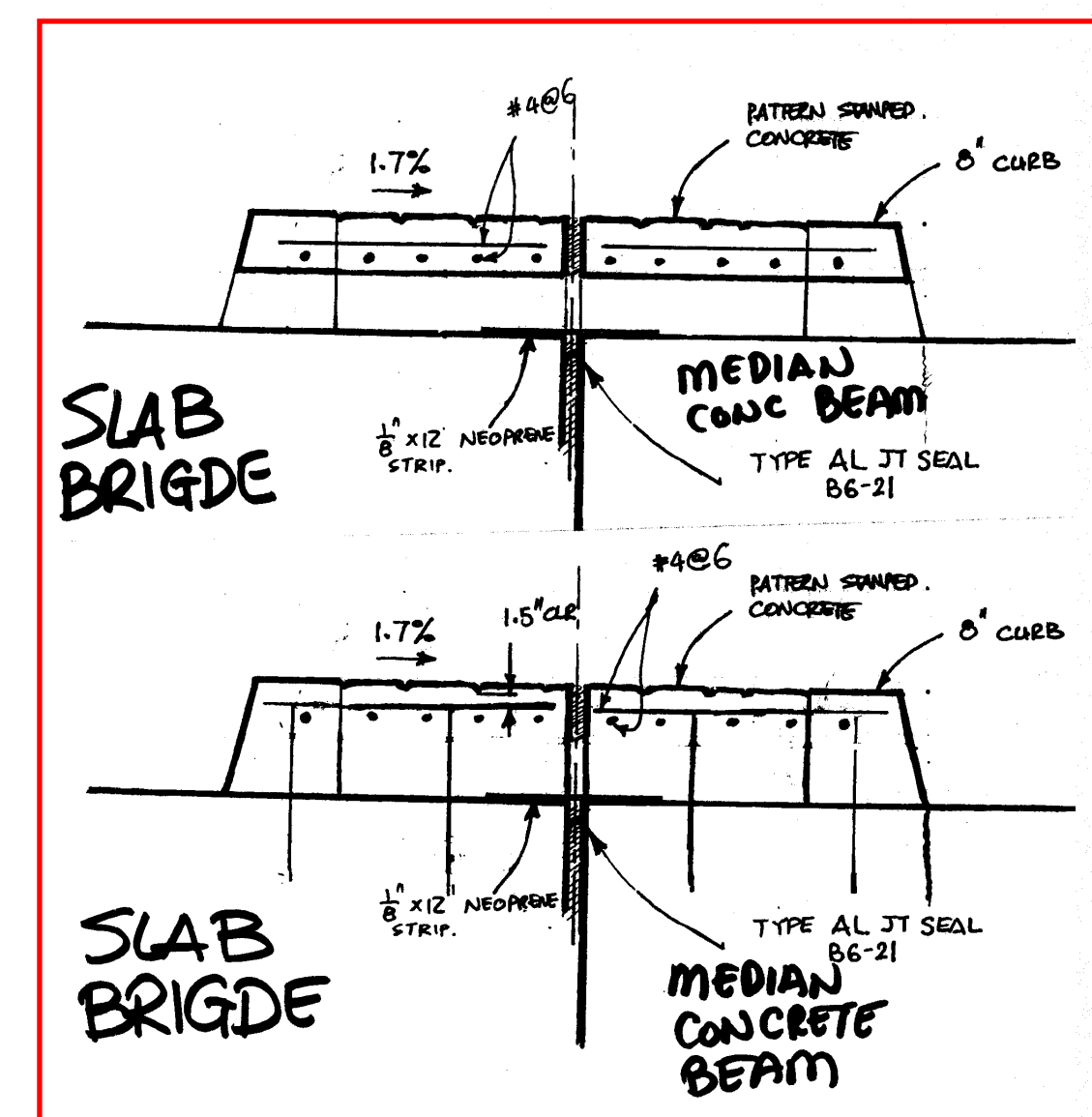
- BRIDGE REMOVAL (PORTION)
- DENOTES EXISTING STRUCTURE
- DENOTES NEW STRUCTURE



RAISED MEDIAN DETAIL
ON RC SLAB AND APPROACH SLAB

1" = 1'-0"

RC SLAB SHOWN, STRUCTURE APPROACH TYPE N (10N) SIMILAR



1/2 0 2
3 inches on original drawing

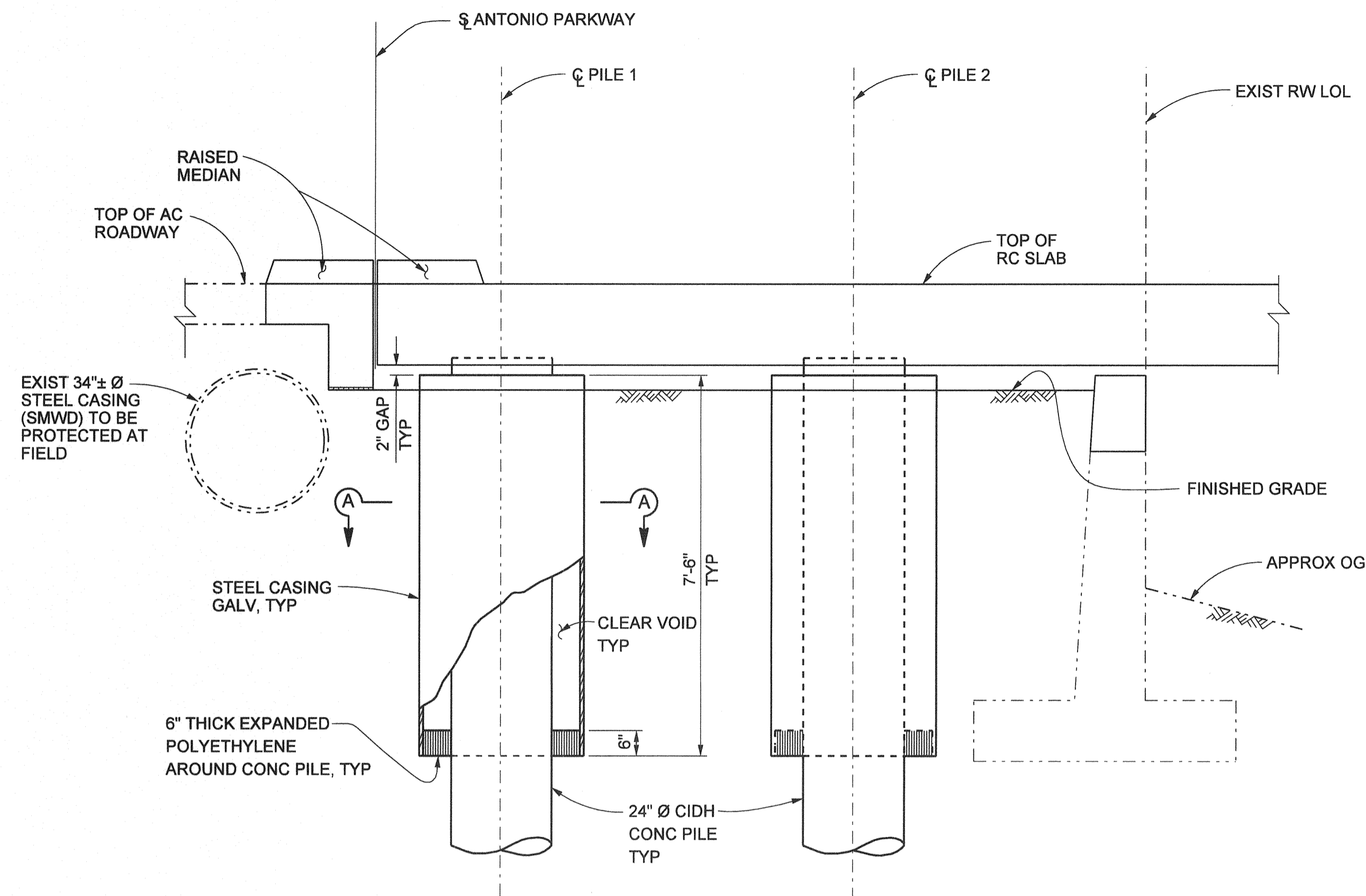
MARK		DATE	DESCRIPTION
REVISIONS			
PREPARED UNDER RESPONSIBLE CHARGE OF:			
DESIGNED		J. WANG	
DRAWN		N. MOJALES	
SCALE		DATE	
AS SHOWN		9/19/08	
CHECKED		F. JEANG	
DRAWING NO.		DATE	
OF 72		SHEET	
70		OF 72	

PLANS PREPARED BY:
HNTB
HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

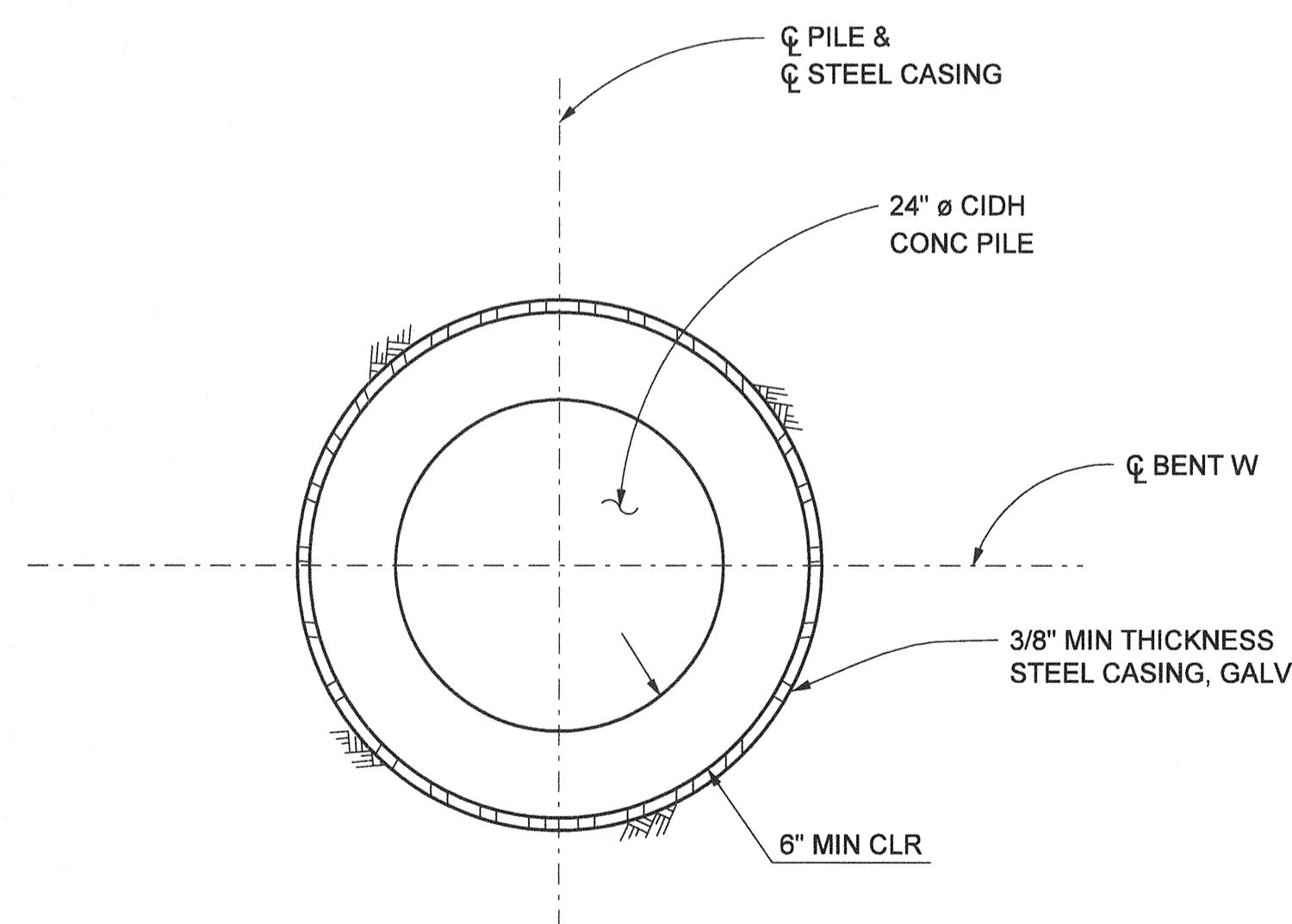
Date Plotted:

File Name: J:\34092\CADD\Struct\sheet\antonio\pkwy-S-29.dgn

Border sheet last modified 09-Nov-1999



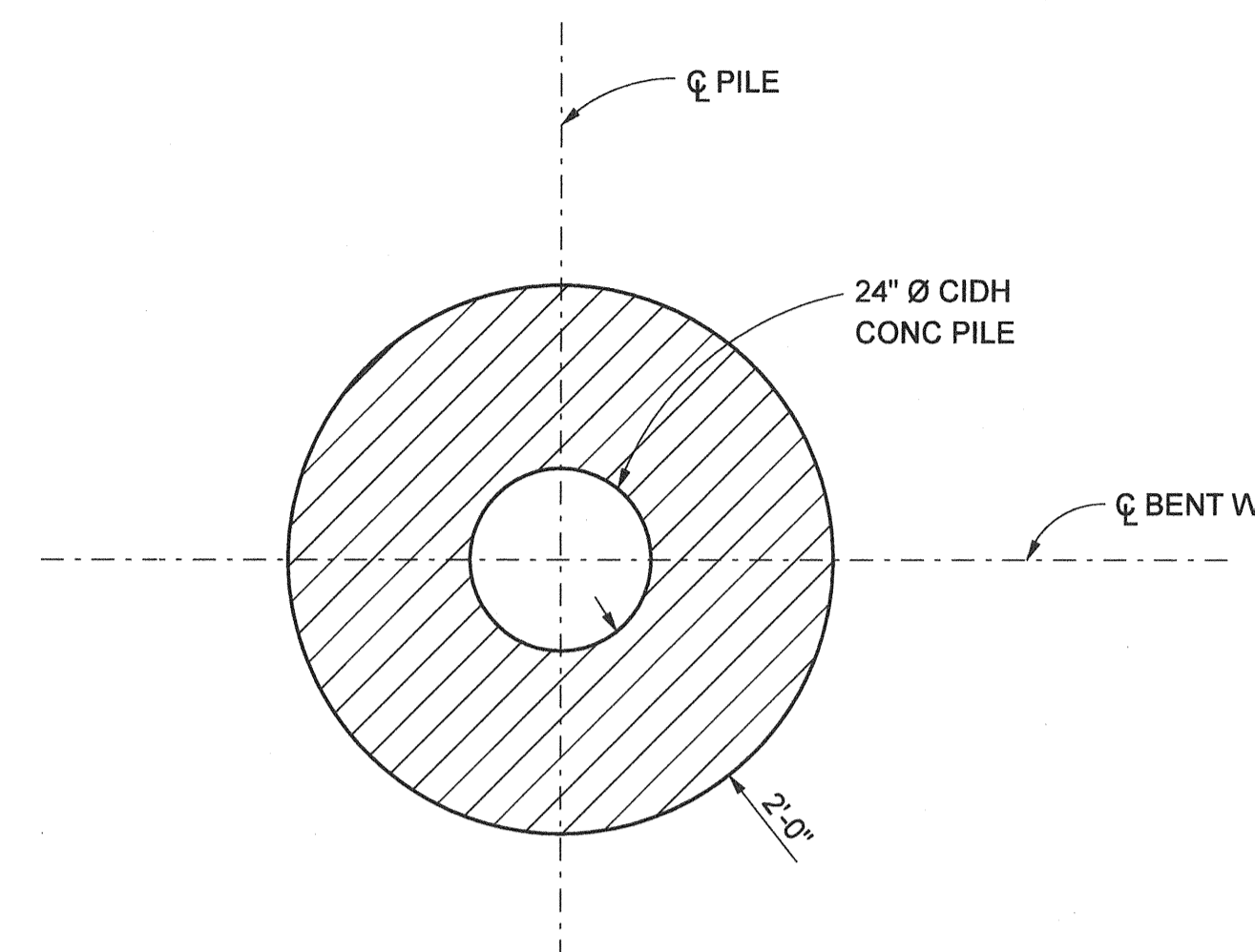
ELEVATION
1/2" = 1'-0"



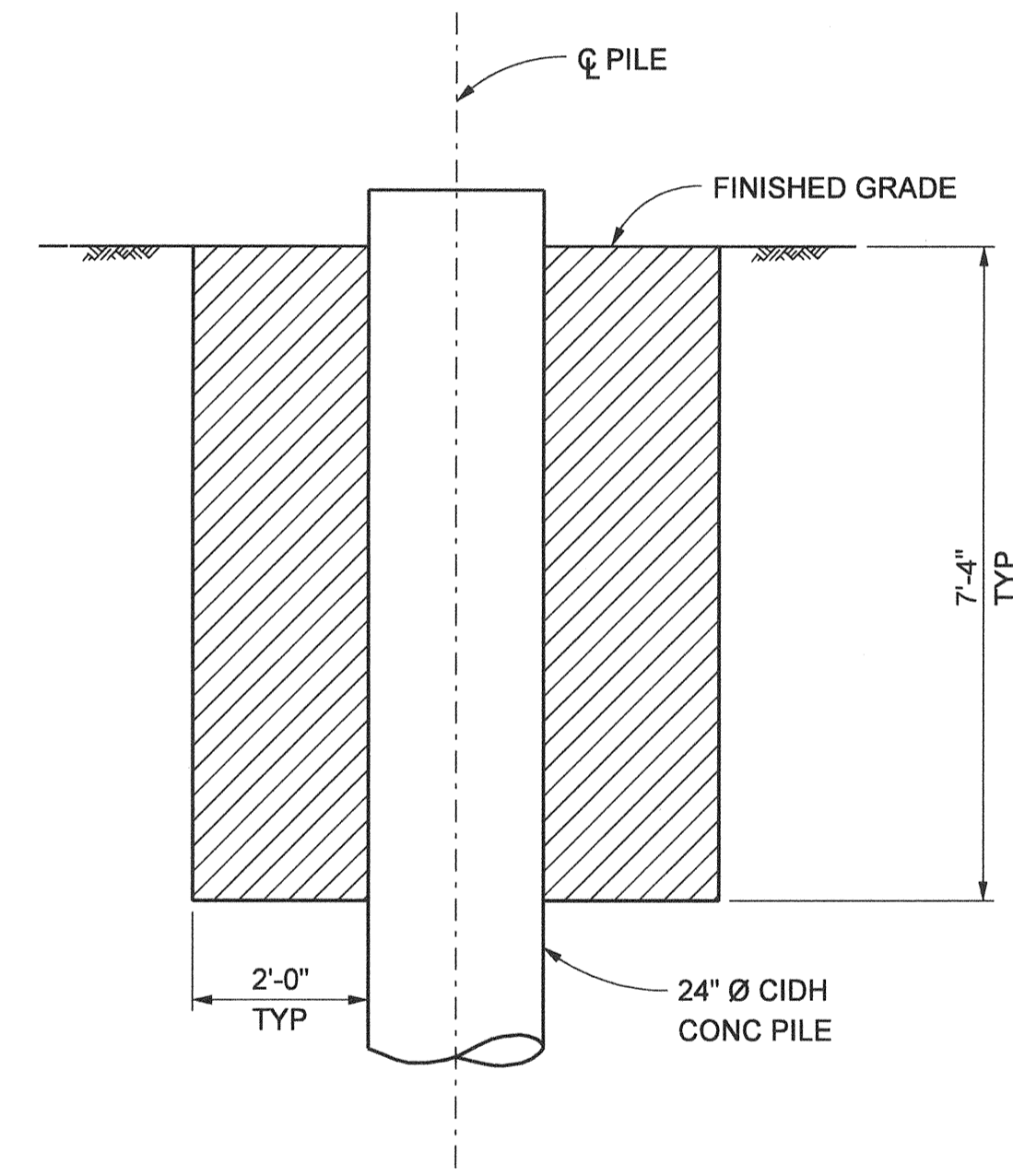
SECTION A-A
1" = 1'-0"

NOTES:

1. THE CONTRACTORS SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIALS.
2. SEE "LIMIT FOR STRUCTURAL EXCAVATION AND BACKFILL" SHEET AND CALTRANS STANDARD PLAN A62C FOR OTHER LIMIT FOR STRUCTURAL EXCAVATION AND BACKFILL.
3. SEE "BENT W AND 24" Ø PILE DETAILS" SHEET FOR PILE LAYOUT.



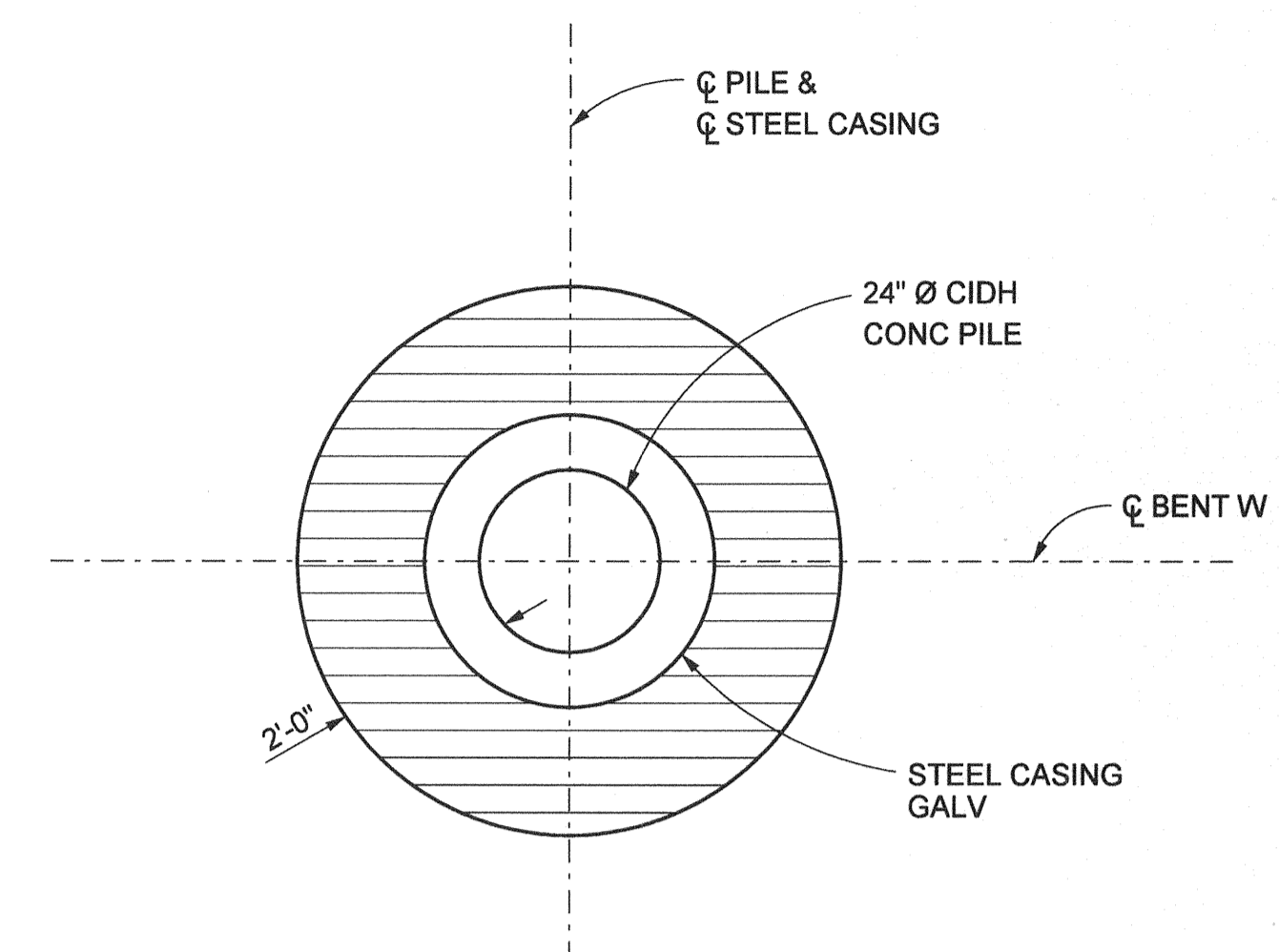
PLAN



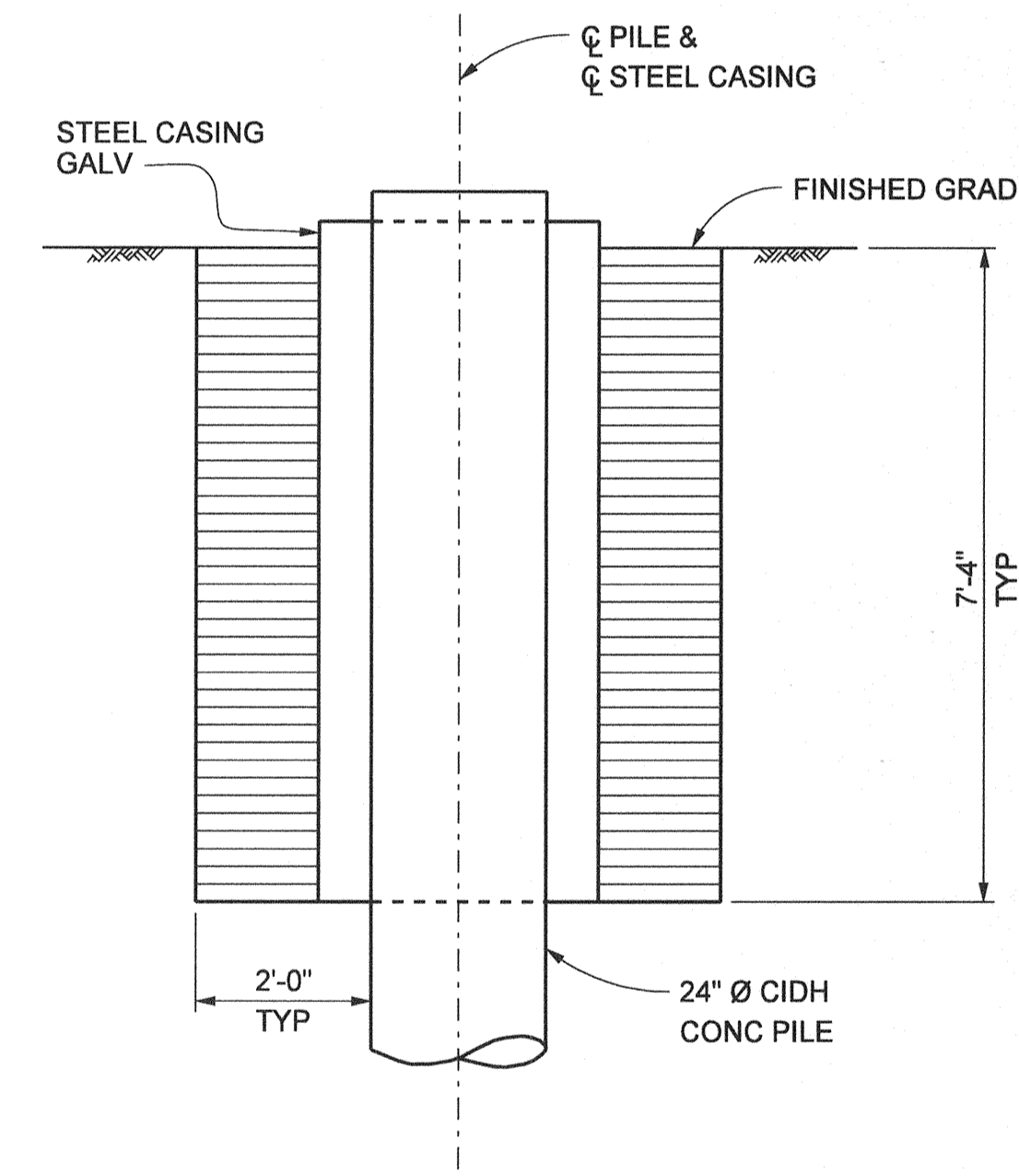
ELEVATION

STRUCTURE EXCAVATION

(PILE 1 & PILE 2 ONLY)



PLAN



ELEVATION

STRUCTURE BACKFILL

(PILE 1 & PILE 2 ONLY)

STRUCTURAL EXCAVATION & BACKFILL - 24" Ø CIDH PILE

NO SCALE

1 1/2 0 2
3 Inches on original drawing

LEGEND

- DENOTES EXISTING STRUCTURE
- DENOTES NEW STRUCTURE
- STRUCTURE EXCAVATION
- STRUCTURE BACKFILL

NO AS BUILT CHANGES

AS BUILT

CORRECTION BY: MN
CONTRACT NO.: ER28121
DATE: 12/30/2009

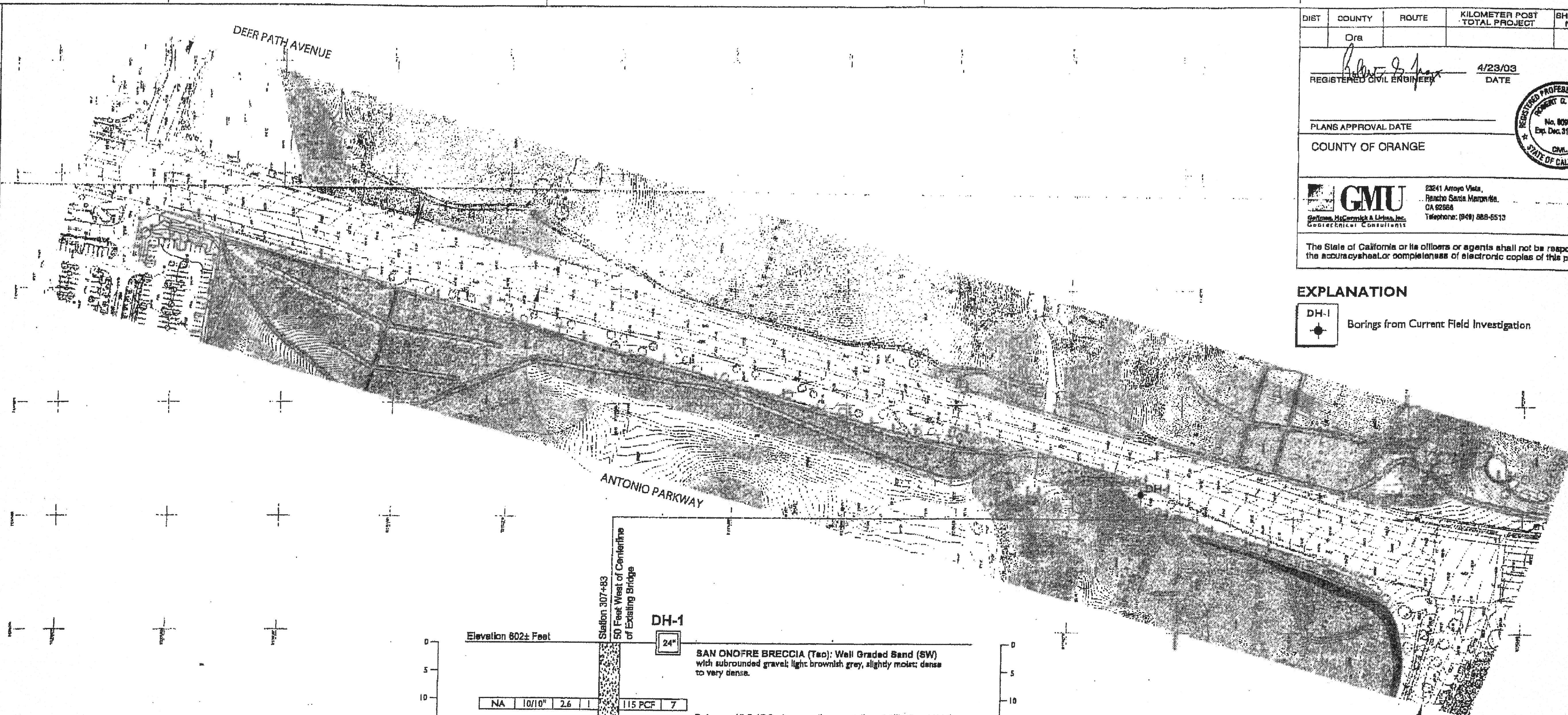
PLANS PREPARED BY:
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HNTB Corporation
200 E. SANDPOINTE AVENUE, SUITE 200
SANTA ANA, CALIFORNIA 92707
TEL (714) 460-1600 FAX (714) 460-1610

ORANGE COUNTY RESOURCES & DEVELOPMENT MANAGEMENT DEPT		ANTONIO PARKWAY WILDLIFE UNDERCROSSING (WIDEN)	
ISOLATION CASING DETAILS			
DESIGNED <u>J. WANG</u>	CHECKED <u>E. WANG</u>	SHEET 71 OF 72	
DRAWN <u>J. WANG</u>	DATE <u>9/19/06</u>	DRAWING NO.	
PREPARED UNDER RESPONSIBLE CHARGE OF: <u>Yung-Nien Wang</u> NO. <u>C 43559</u> EXP. <u>6-30-08</u> CIVIL STATE OF CALIFORNIA 10/31/06 Yung-Nien Wang RCE C 43559 (EXP. 6-30-08)			

Date Plotted:

File Name: J:\34092\CADD\Struct\sheet\antoniopkwy-S-30.dgn

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FILE'S ON CASES FROM MAY, 1971 TO PRESENT