

# ORANGE COUNTY PUBLIC WORKS

**AS BUILT**

CORRECTION BY: Webster Labrador  
CONTRACT NO.: ER08960  
DATE: 11/23/2010

SANTA ANA, CALIFORNIA  
JESS CARBAJAL, DIRECTOR

PLANS FOR CONSTRUCTION OF

## BROWNING AVENUE SIDEWALK GAP CLOSURE PROJECT

WESTSIDE OF BROWNING AVENUE BETWEEN  
RIVER FORD ROAD AND IRVINE BOULEVARD

W.O. NO. ER08960  
FEBRUARY 2010

FUNDED BY: OCTA TRANSPORTATION DEVELOPMENT ACT  
AND COUNTY OF ORANGE

MAINTAINED BY: COUNTY OF ORANGE  
CITY OF TUSTIN WILL MAINTAIN CATCH BASIN BMP  
(SHEET 7) PER WQMP NO. 08-07

### DEVIATIONS FROM STANDARDS

1. CURB RETURN RADIUS (BENT TWIG LANE):  
MODIFIED OCPW STANDARD PLAN 1115 TYPE 2  
CURB RAMP DUE TO EXISTING CONDITIONS.
2. SIDEWALK WIDTH:  
MODIFIED OCPW STANDARD PLAN 1410 CASE 1  
DUE TO RIGHT OF WAY CONSTRAINT.

APPROVED:

IGNACIO G. OCHOA, P.E.  
DIRECTOR / CHIEF ENGINEER, OC ENGINEERING

1/4/10  
DATE

UNDERGROUND SERVICE ALERT

CALL 1-800-422-4133 TWO (2)  
WORKING DAYS PRIOR TO EXCAVATION

### OC PUBLIC WORKS

SUBMITTED:

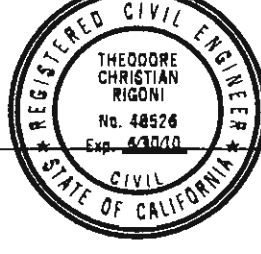
JAVIER SOTO, P.E.  
MANAGER, ROAD / CAPITAL PROJECTS



12/23/09  
DATE

RECOMMENDED:

FED RIGONI, P.E., P.M.P.  
MANAGER, ROAD DIVISION



12/23/09  
DATE

APPROVED:

IGNACIO G. OCHOA, P.E.  
DIRECTOR / CHIEF ENGINEER, OC ENGINEERING

12/23/09  
DATE

### INDEX OF SHEETS

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1	TITLE SHEET
2	TYPICAL CROSS SECTIONS
3	PLAN AND PROFILE STA 0+00 TO 4+00
4	PLAN AND PROFILE STA 4+00 TO 7+50
5	PLAN AND PROFILE STA 7+50 TO 11+00
6	PLAN AND PROFILE STA 11+00 TO 14+00
7	MISCELLANEOUS DETAILS
8	CROSS SECTIONS
9	CROSS SECTIONS

### UTILITY OWNER CONTACT PHONE NO.

AT&T (PACIFIC BELL)	CRAIG AKIN	714-666-5698
CITY OF TUSTIN (WATER SERVICES DIVISION)	JOSE DIAZ	714-573-3375
LEVEL (3) COMMUNICATIONS	MATT WILLIAMS	720-888-3813
MCI NETWORKS SERVICES, INC.	CHUCK TRIMBLE	909-421-3339
ORANGE COUNTY SANITATION DISTRICT	LYNN ELLIOTT	714-960-2411
SOUTHERN CALIFORNIA EDISON	KIM GURULE	714-796-9932
SOUTHERN CALIFORNIA GAS COMPANY	DAVE BALDWIN	714-634-3267
TIME WARNER CABLE	CHRIS DONNELLY	714-412-8541
UNDERGROUND SERVICE ALERT	FRED ADJARIAN	800-422-4133

### BENCH MARK:

O.C.S. BM. #1RV-B-BM1  
ELEV. = 119.091' LEVELED 1991  
  
O.C.S. BM. #3F-82-71  
ELEV. = 116.067' LEVELED 1991  
  
NGVD 1929 (1995 O.C.S. ADJUSTMENT)

### BASIS OF BEARINGS:

THE BASIS OF BEARINGS HEREON IS  
THE GRID INVERSE BETWEEN GPS  
STATIONS #6539 AND #6540, BEING  
N 40° 36' 56" E.  
  
COORDINATES SHOWN HEREON ARE  
BASED ON THE CALIFORNIA  
COORDINATE SYSTEM (CCS83),  
ZONE VI, 1983 NORTH AMERICAN  
DATUM (1991.35 EPOCH G.P.S.  
ADJUSTMENT).

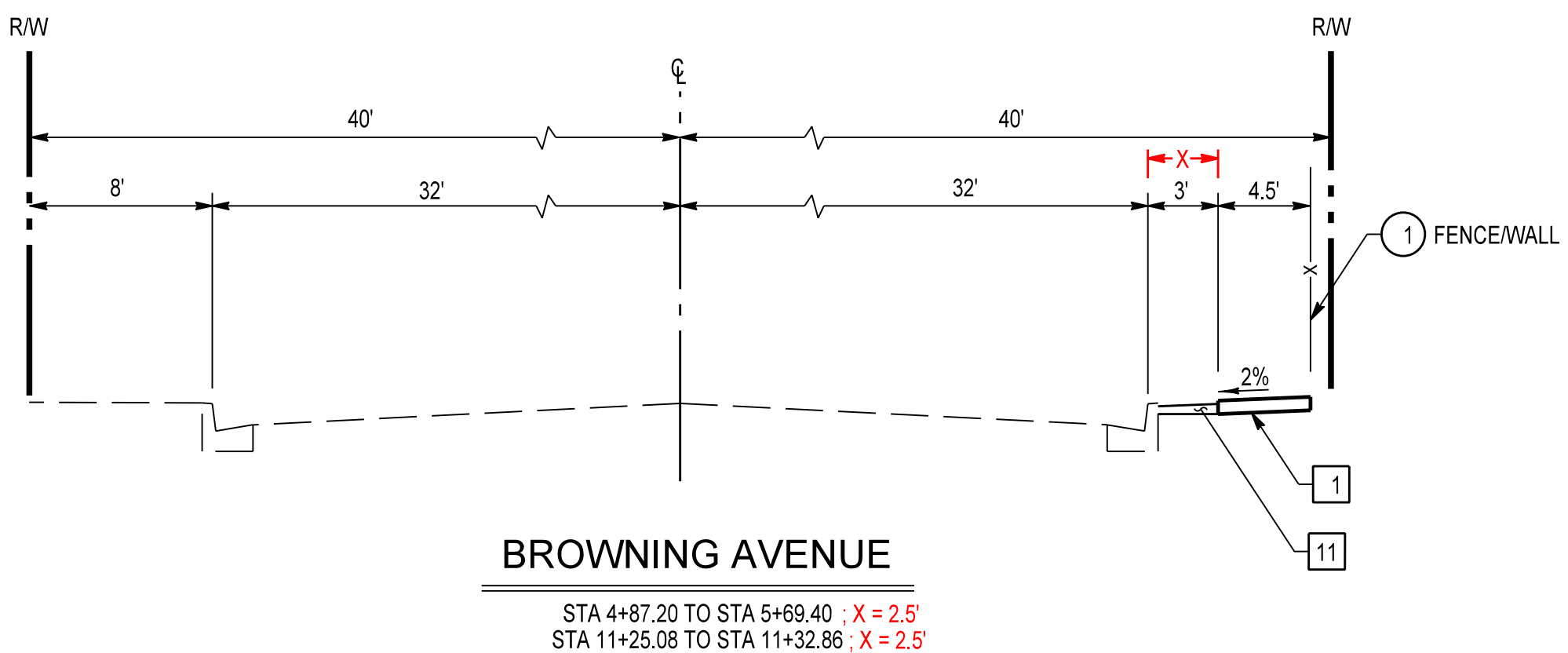
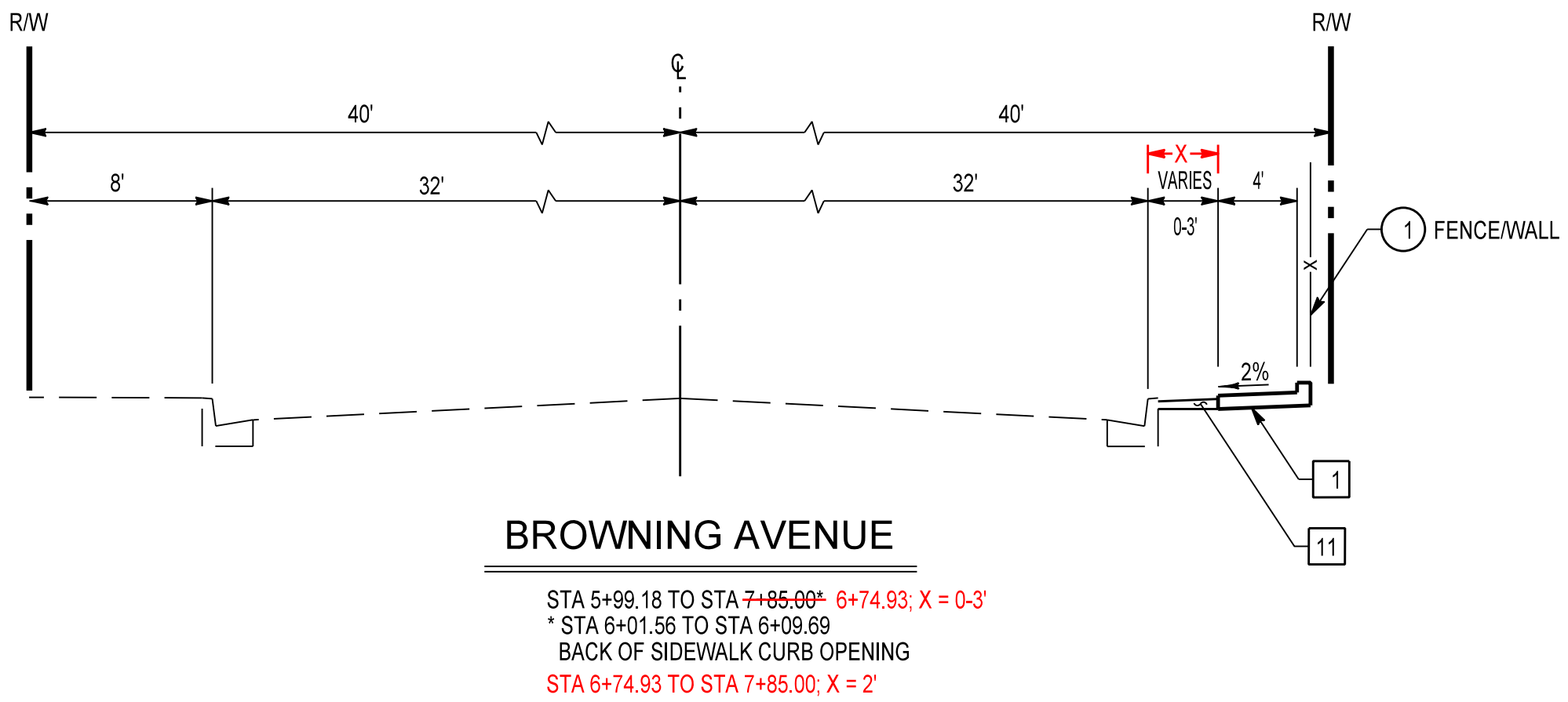
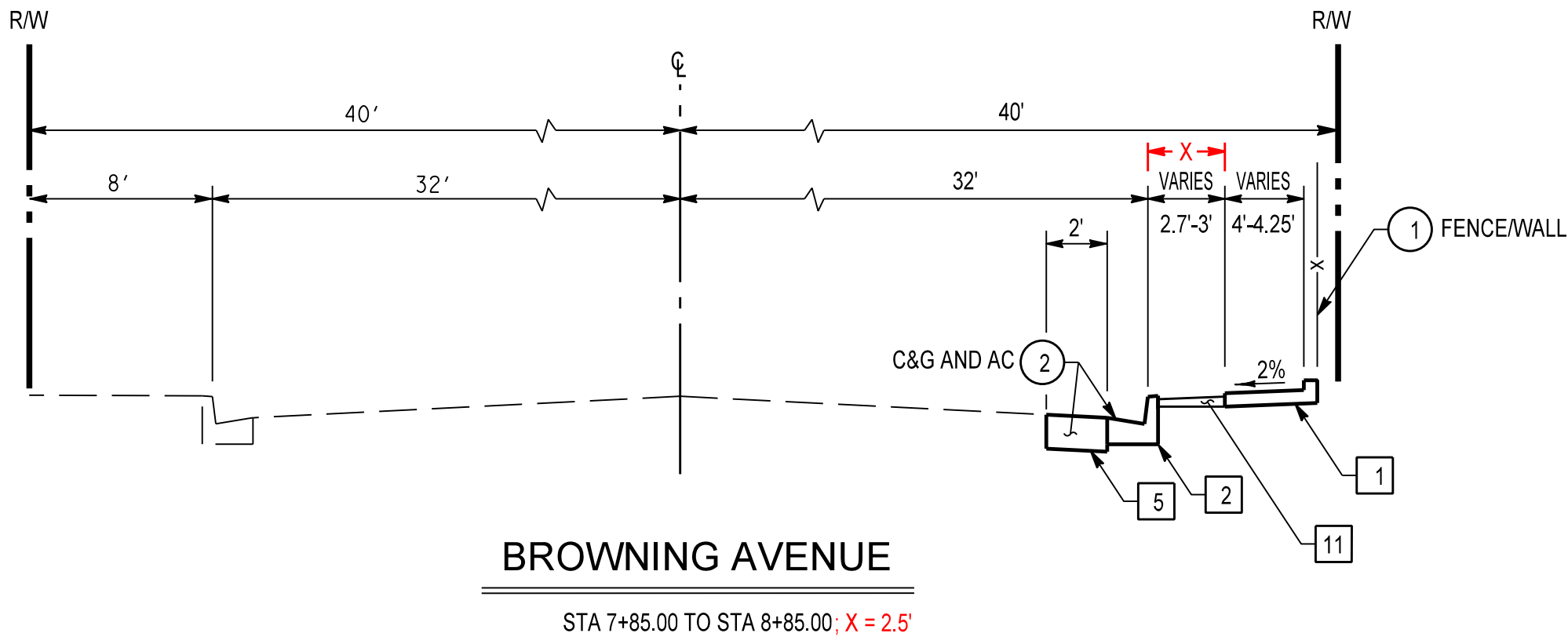
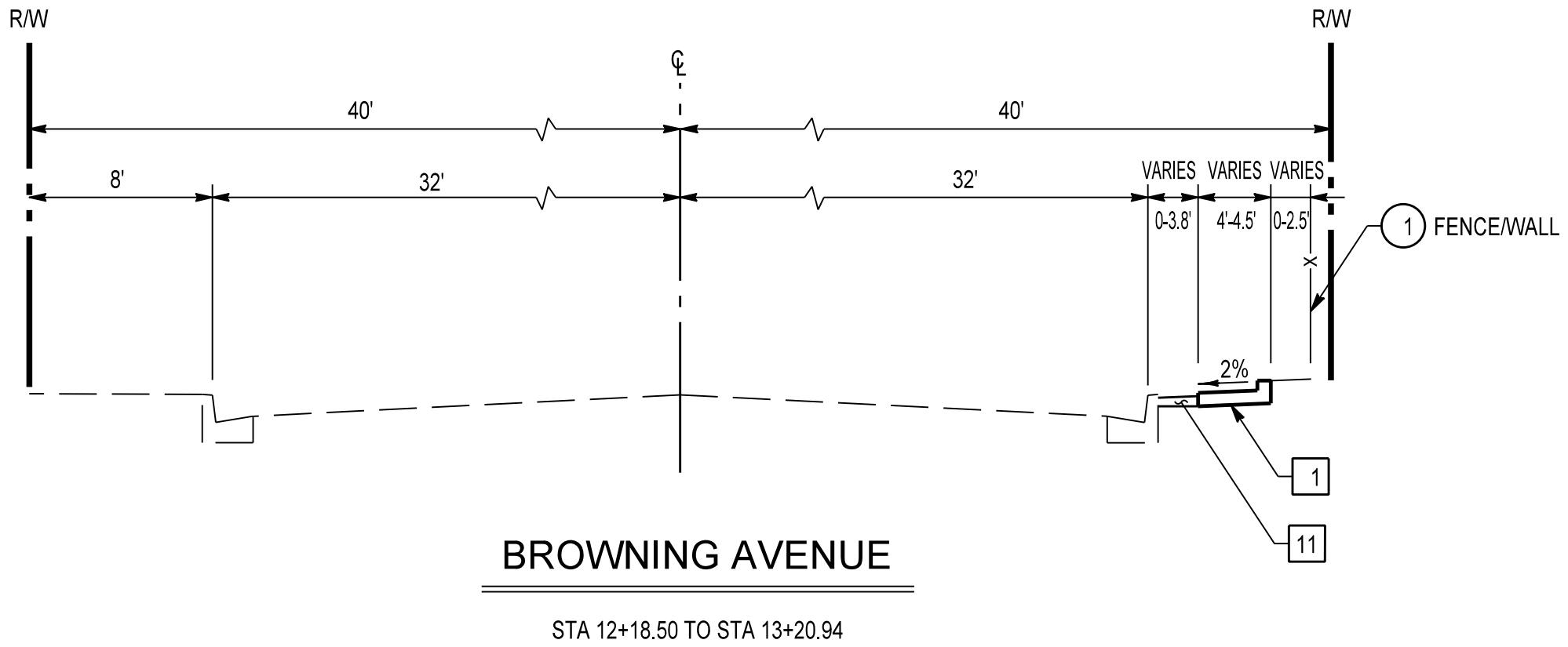
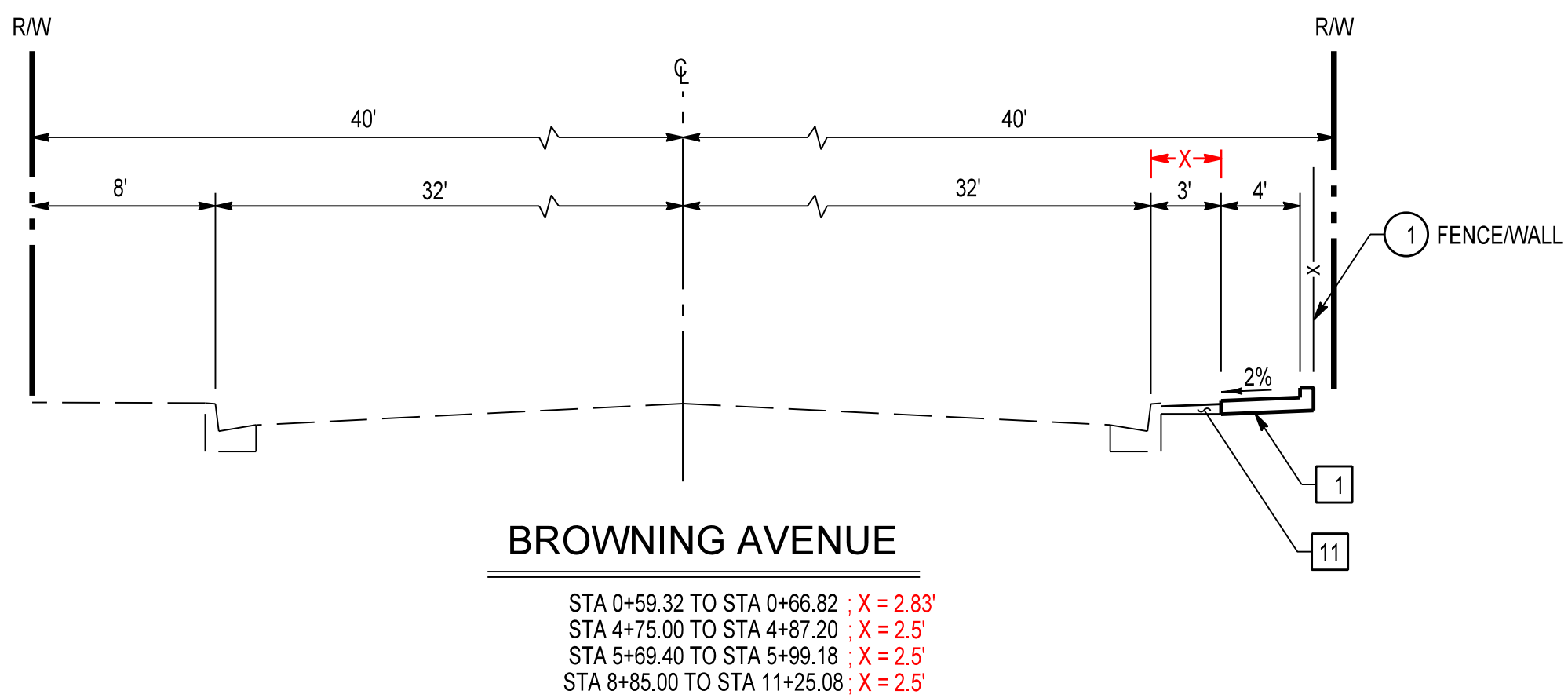
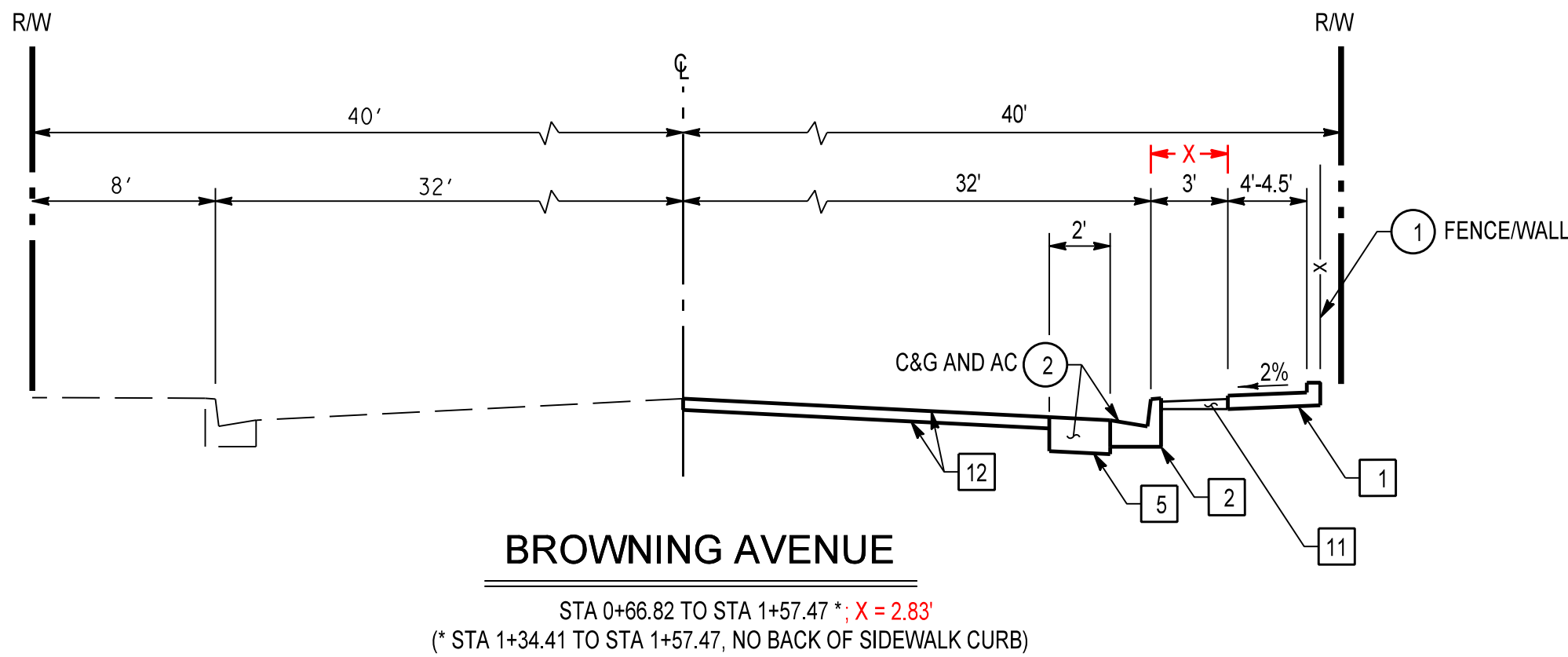
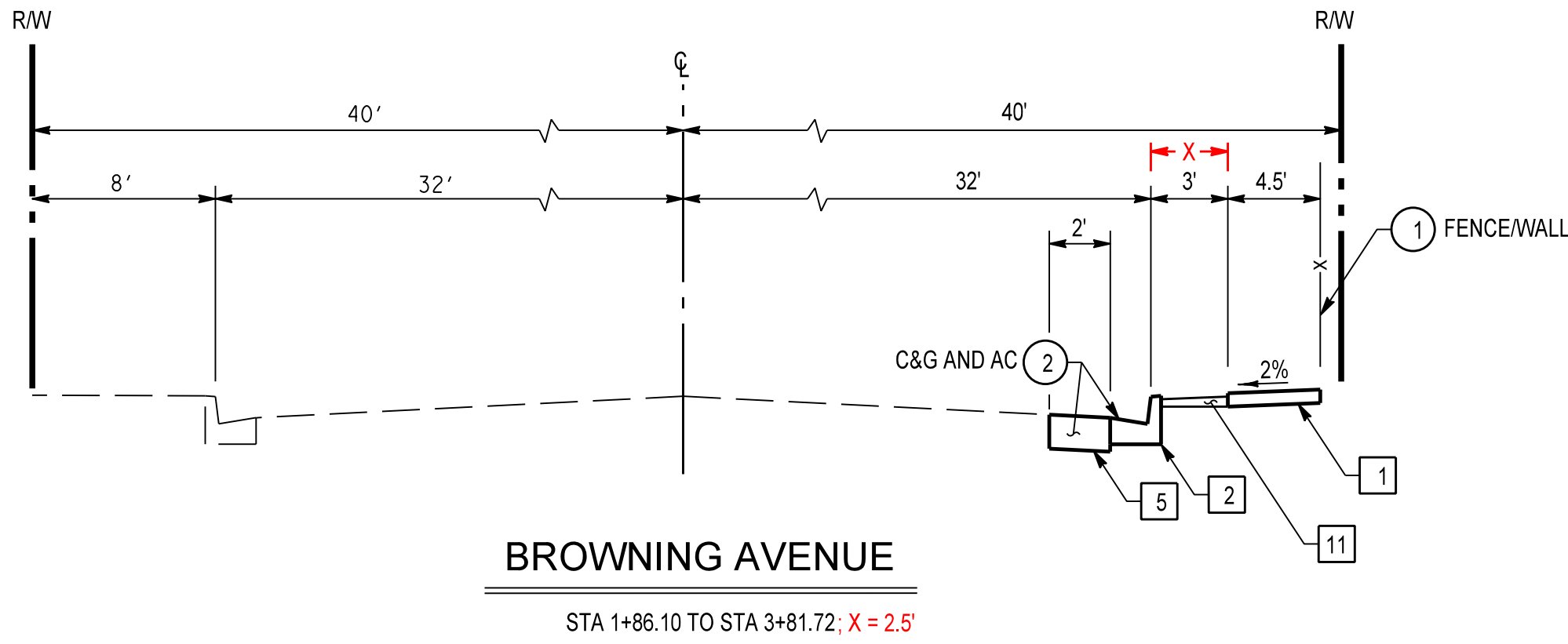
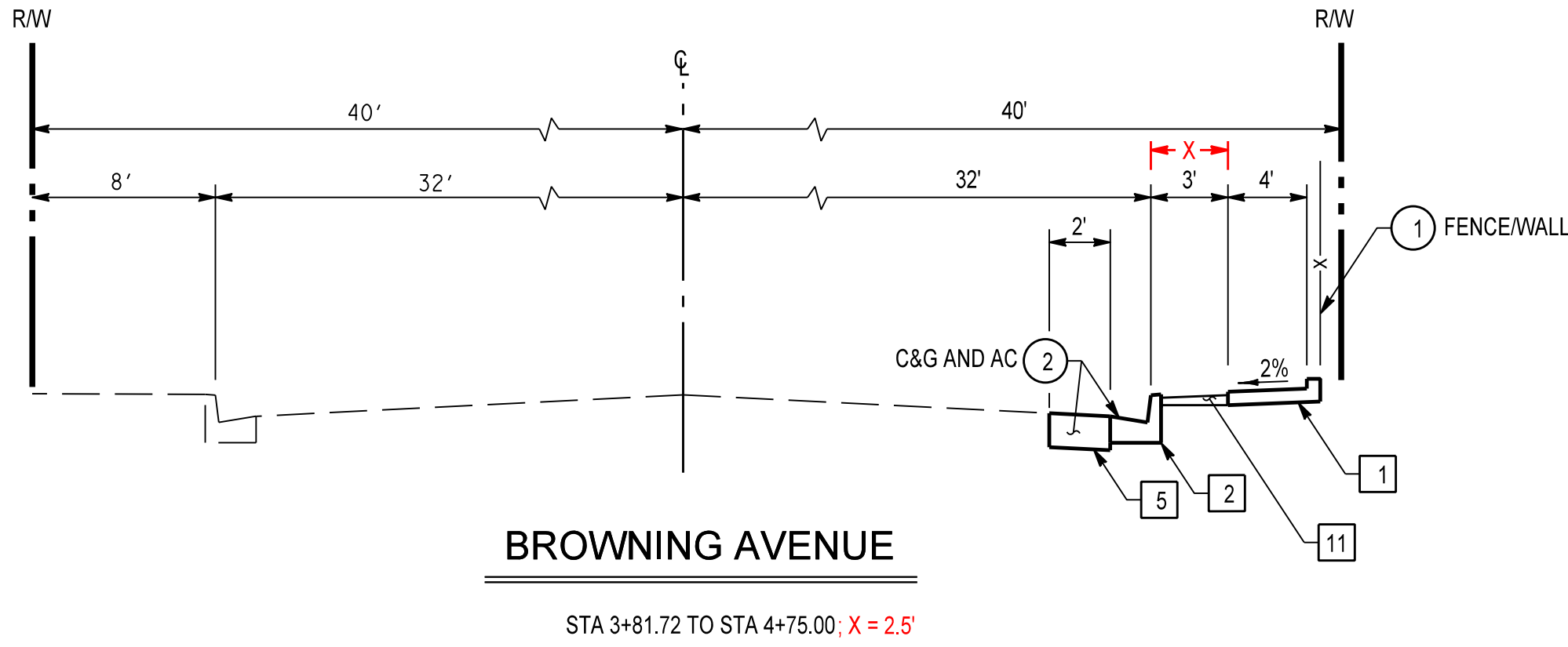
NO.	DESCRIPTION	SHT.	APPROVED	DATE
1	AS BUILT CHANGES	2-7	VB	11/23/10

### REVISIONS

W. O. NO. ER08960  
DWG. NO. \_\_\_\_\_

**SHEET 1 OF 9**





CONSTRUCTION NOTES

- 1 CONSTRUCT PCC SIDEWALK PER OCPW STD. PLAN 1205 AND MISCELLANEOUS DETAILS SHEET
- 2 CONSTRUCT TYPE A2-8 CURB AND GUTTER PER OCPW STD. PLAN 120-1
- 5 CONSTRUCT FULL DEPTH PAVEMENT, 0.5 AC OVER NATIVE SOIL
- 11 CONSTRUCT GRAVEL MULCH PER DETAIL ON MISCELLANEOUS DETAIL SHEET AND SPECIAL PROVISIONS
- 12 COLD PLANE 2" AND RESURFACE AC PAVEMENT 2" MINIMUM

LEGEND

- 1 PROTECT IN PLACE
- 2 REMOVE

AS BUILT

CORRECTIONS BY WEBSTER LABRADOR  
CONTRACT NO. ER08960  
DATE 11/23/2010

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



MARK	DESCRIPTION	DATE	APPR.

PREPARED UNDER THE RESPONSIBLE CHARGE OF:

CIVIL ENGINEER  
RICHARD M. HOSINGTON  
No. 62425  
Exp. 3/31/11

DATE: 12/29/09

R. Hosington

DESIGNED BY: H. OH  
CHECKED BY: R. HOSINGTON  
DRAWN BY: H. OH  
DRAWING CODE:  
FILE NAME:  
PLOT DATE: 11/24/2010  
SCALE: AS SHOWN

COUNTY OF ORANGE  
OC PUBLIC WORKS

PREPARED BY:  
BRIDGE DESIGN SECTION

BROWNING AVENUE SIDEWALK  
GAP CLOSURE PROJECT  
RIVER FORD ROAD TO IRVINE BL.

TYPICAL CROSS  
SECTIONS

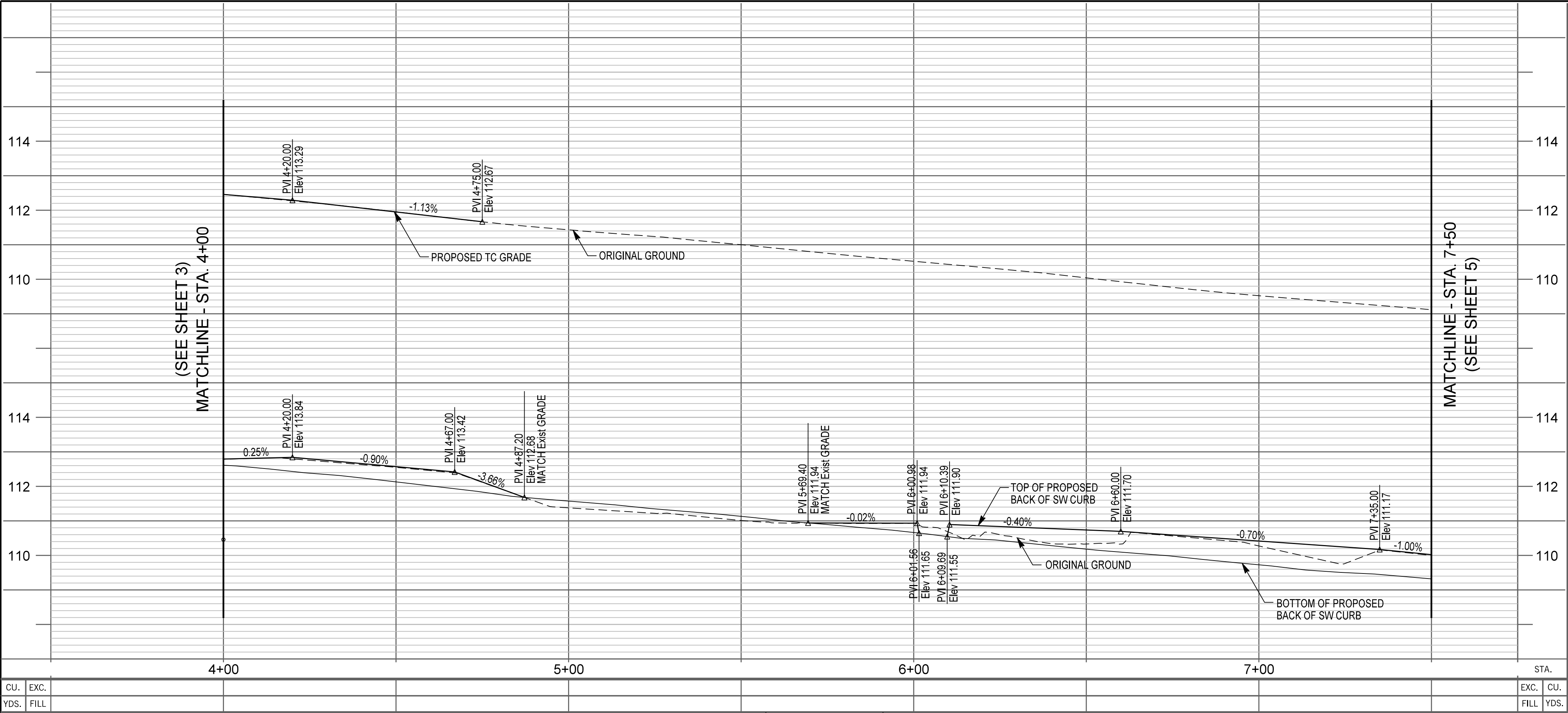
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Number

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Sheet 2 of 9





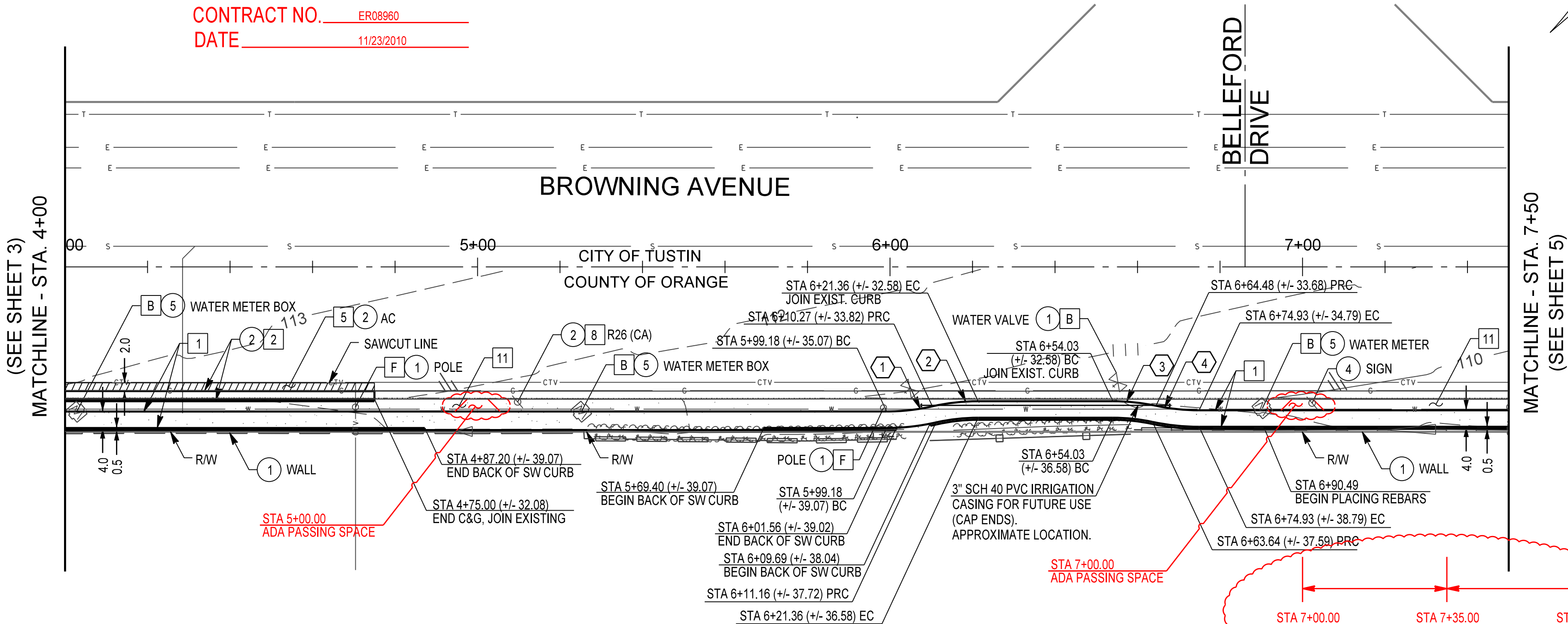


PROFILE

HORIZ. 1"=20'  
VERT. 1"=2'

AS BUILT

CORRECTIONS BY WEBSTER LABRADOR  
CONTRACT NO. ER08960  
DATE 11/23/2010



PLAN

SCALE 1"=20'

CONSTRUCTION NOTES

1. CONSTRUCT PCC SIDEWALK PER OCPW STD. PLAN 1205 AND MISCELLANEOUS DETAILS SHEET
2. CONSTRUCT TYPE A2-8 CURB AND GUTTER PER OCPW STD. PLAN 120-1
5. CONSTRUCT FULL DEPTH PAVEMENT, 0.5 AC OVER NATIVE SOIL
8. INSTALL TRAFFIC SIGN PER OCPW STD. PLAN 1409 AND 1417
11. CONSTRUCT GRAVEL MULCH PER DETAIL ON MISCELLANEOUS DETAIL SHEET AND SPECIAL PROVISIONS

LEGEND

1. PROTECT IN PLACE
2. REMOVE
4. RELOCATE SIGN PER OCPW STD. PLAN 1409 AND 1417
5. ADJUST TO GRADE

- WOOD FENCE
- CONCRETE/MASONARY WALL
- SHRUB

+/- INDICATES APPROXIMATE DISTANCES OF EXISTING CONSTRUCTION, TO BE VERIFIED BY CONTRACTOR

UTILITIES

- A. AT&T (PACIFIC BELL)
- B. CITY OF TUSTIN (WATER SERVICES DIVISION)
- C. LEVEL (3) COMMUNICATIONS
- D. MCI NETWORKS SERVICES
- E. ORANGE COUNTY SANITATION DISTRICT
- F. SOUTHERN CALIFORNIA EDISON
- G. SOUTHERN CALIFORNIA GAS COMPANY
- H. TIME WARNER CABLE

CURVE DATA				
No.	R	Δ	T	L
1	50.00'	12°48'39"	5.61'	11.18'
2	50.00'	12°48'54"	5.62'	11.18'
3	50.00'	12°03'56"	5.28'	10.53'
4	50.00'	12°03'57"	5.28'	10.53'
5	54.00'	12°48'39"	6.06'	12.07'
6	46.00'	12°48'54"	5.17'	10.29'
7	46.00'	12°03'56"	4.86'	9.69'
8	54.00'	12°03'57"	5.71'	11.37'

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



MARK	DESCRIPTION	DATE	APPR.

PREPARED UNDER THE RESPONSIBLE CHARGE OF:

12/23/09  
DATE

R. HOISINGTON  
R. HOISINGTON

DESIGNED BY: H. OH  
DRAWN BY: H. OH  
CHECKED BY: R. HOISINGTON  
DRAWING CODE:  
FILE NAME:  
PLOT DATE: 11/24/2010  
SCALE: AS SHOWN

COUNTY OF ORANGE  
OC PUBLIC WORKS

PREPARED BY:  
BRIDGE DESIGN SECTION

BROWNING AVENUE SIDEWALK  
GAP CLOSURE PROJECT  
RIVER FORD ROAD TO IRVINE BL.

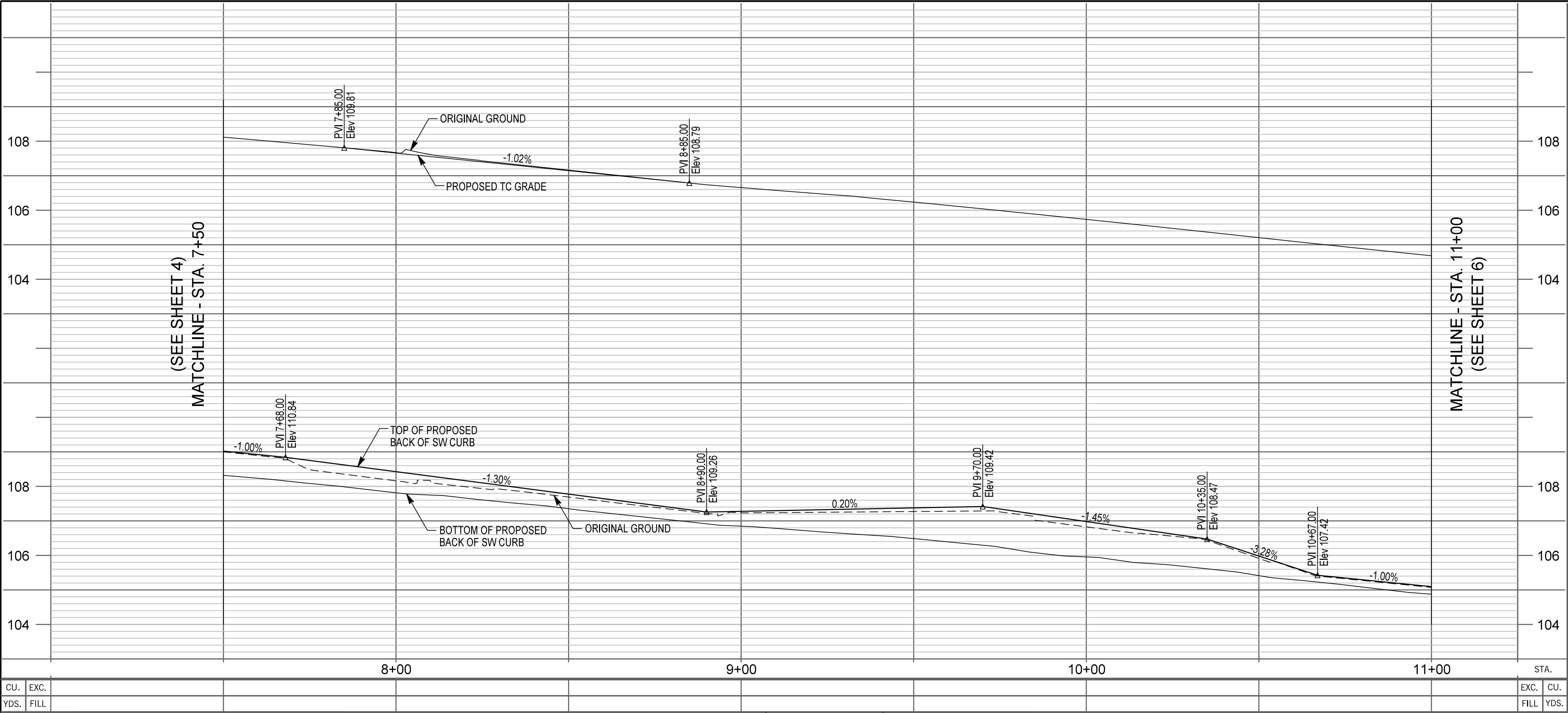
PLAN AND  
PROFILE

STA 4+00 TO 7+50

Sheet  
Reference  
Number

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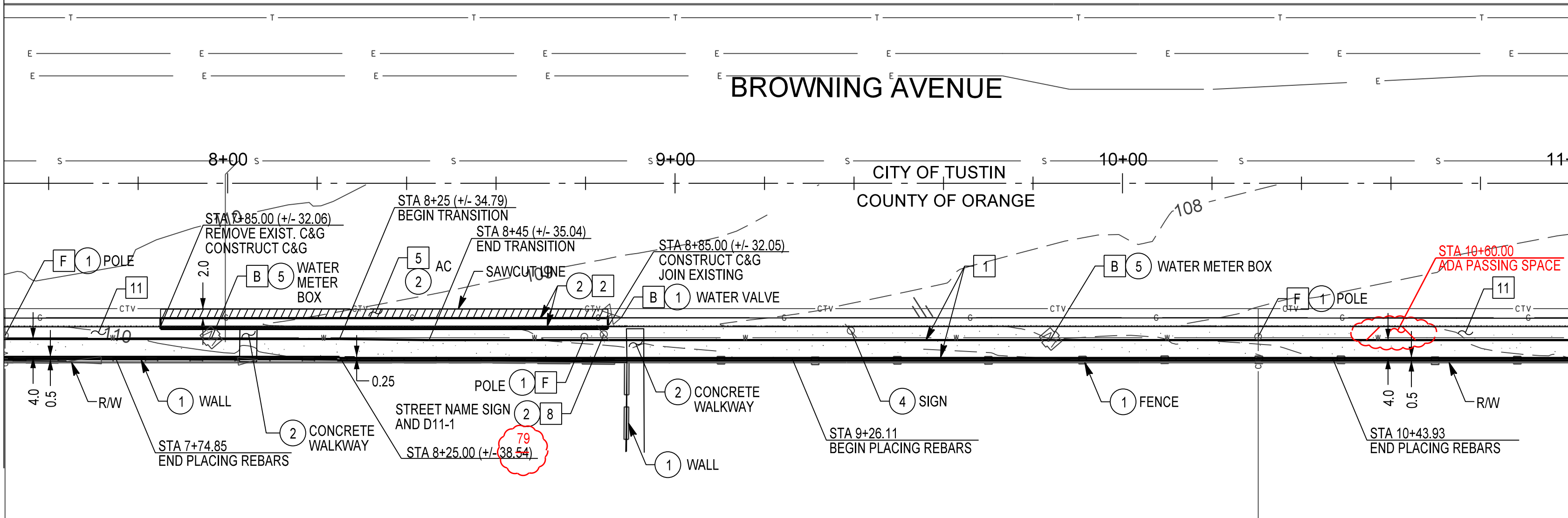
PROFILE

HORIZ. 1"=20'  
VERT. 1"=2'

AS BUILT

CORRECTIONS BY WEBSTER LABRADOR  
CONTRACT NO. ER08960  
DATE 11/23/2010

(SEE SHEET 4)  
MATCHLINE - STA. 7+50



PLAN

SCALE 1"=20'

CONSTRUCTION NOTES

1. CONSTRUCT PCC SIDEWALK PER OCPW STD. PLAN 1205 AND MISCELLANEOUS DETAILS SHEET
2. CONSTRUCT TYPE A2-8 CURB AND GUTTER PER OCPW STD. PLAN 120-1
5. CONSTRUCT FULL DEPTH PAVEMENT, 0.5 AC OVER NATIVE SOIL
8. INSTALL TRAFFIC SIGN PER OCPW STD. PLAN 1409 AND 1417
11. CONSTRUCT GRAVEL MULCH PER DETAIL ON MISCELLANEOUS DETAIL SHEET AND SPECIAL PROVISIONS

LEGEND

1. PROTECT IN PLACE
2. REMOVE
4. RELOCATE SIGN PER OCPW STD. PLAN 1409 AND 1417
5. ADJUST TO GRADE

WOOD FENCE  
CONCRETE/MASONARY WALL

+/- INDICATES APPROXIMATE DISTANCES OF EXISTING CONSTRUCTION, TO BE VERIFIED BY CONTRACTOR

UTILITIES

- A. AT&T (PACIFIC BELL)
- B. CITY OF TUSTIN (WATER SERVICES DIVISION)
- C. LEVEL (3) COMMUNICATIONS
- D. MCI NETWORKS SERVICES
- E. ORANGE COUNTY SANITATION DISTRICT
- F. SOUTHERN CALIFORNIA EDISON
- G. SOUTHERN CALIFORNIA GAS COMPANY
- H. TIME WARNER CABLE



MARK	DESCRIPTION	DATE	APPR.

PREPARED UNDER THE RESPONSIBLE CHARGE OF:

12/23/09 DATE

R. HOISINGTON

DESIGNED BY: H. OH

CHECKED BY: R. HOISINGTON

DRAWN BY: H. OH

DRAWING CODE:

FILE NAME:

PLOT DATE: 11/24/2010

SCALE: AS SHOWN

COUNTY OF ORANGE  
OC PUBLIC WORKS

PREPARED BY:  
BRIDGE DESIGN SECTION

BROWNING AVENUE SIDEWALK  
GAP CLOSURE PROJECT  
RIVER FORD ROAD TO IRVINE BL.

PLAN AND  
PROFILE

STA 7+50 TO 11+00

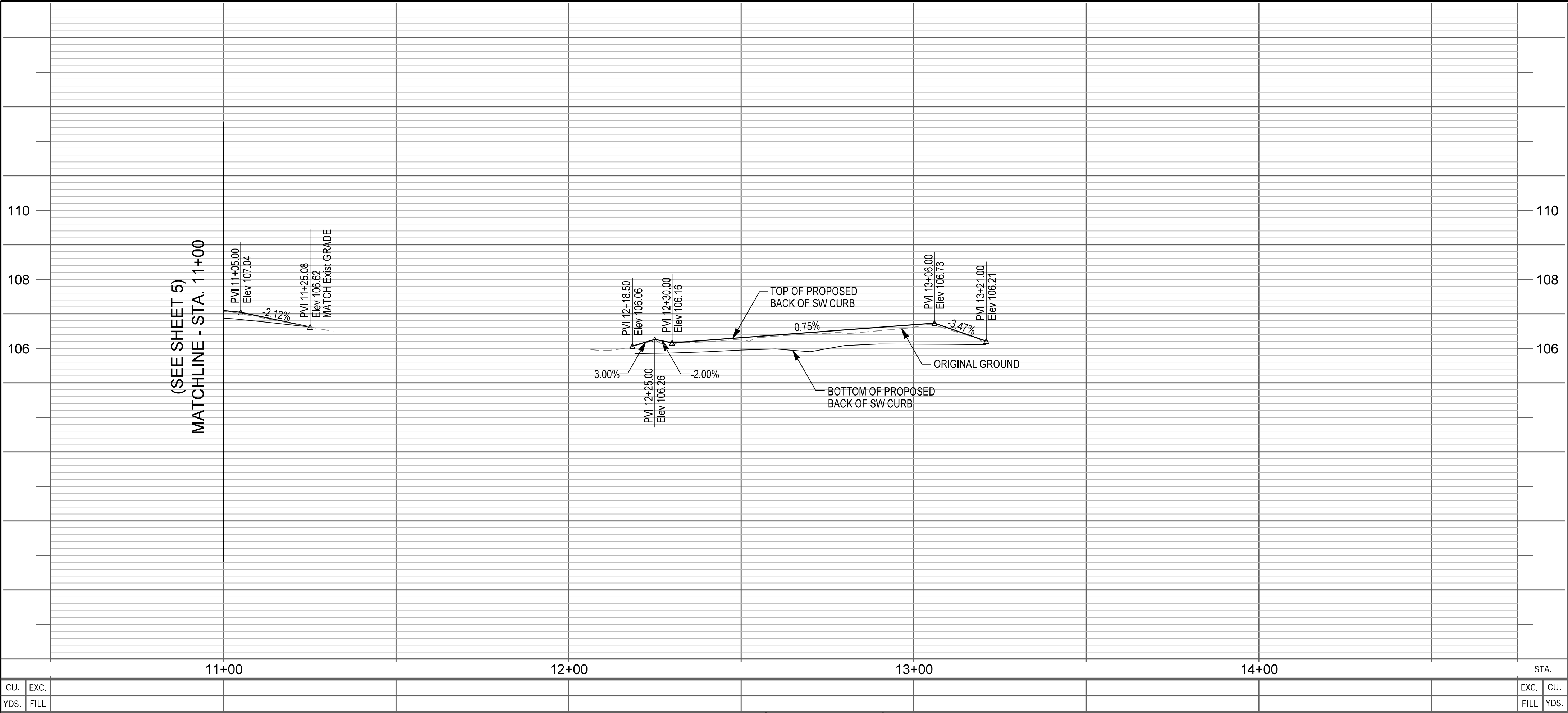
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Sheet 5 of 9

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





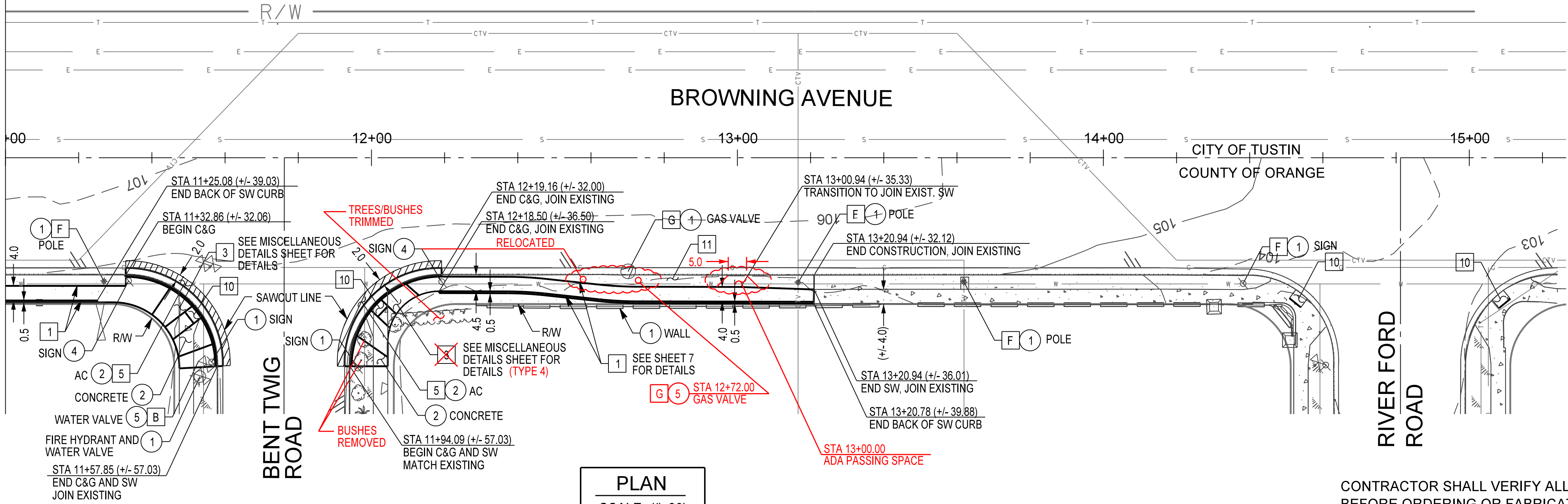
AS BUILT

CORRECTIONS BY WEBSTER LABRADOR  
CONTRACT NO. ER08960  
DATE 11/23/2010

PROFILE

HORIZ. 1"=20'  
VERT. 1"=2'

(SEE SHEET 5)  
MATCHLINE - STA. 11+00



CONSTRUCTION NOTES

- 1 CONSTRUCT PCC SIDEWALK PER OCPW STD. PLAN 1205 AND MISCELLANEOUS DETAILS SHEET
- 2 CONSTRUCT TYPE A2-8 CURB AND GUTTER PER OCPW STD. PLAN 120-1
- 3 CONSTRUCT TYPE 2 CURB RAMP PER OCPW STD. PLANS 1111 AND 1115
- 5 CONSTRUCT FULL DEPTH PAVEMENT, 0.5 AC OVER NATIVE SOIL
- 10 CONSTRUCT RAISED TRUNCATED DOME PER OCPW STD. PLAN 1115
- 11 CONSTRUCT GRAVEL MULCH PER DETAIL ON MISCELLANEOUS DETAIL SHEET AND SPECIAL PROVISIONS

LEGEND

- 1 PROTECT IN PLACE
- 2 REMOVE
- 4 RELOCATE SIGN PER OCPW STD. PLAN 1409 AND 1417
- 5 ADJUST TO GRADE

- WOOD FENCE
- CONCRETE/MASONARY WALL
- SHRUB

+/- INDICATES APPROXIMATE DISTANCES OF EXISTING CONSTRUCTION, TO BE VERIFIED BY CONTRACTOR

UTILITIES

- A AT&T (PACIFIC BELL)
- B CITY OF TUSTIN (WATER SERVICES DIVISION)
- C LEVEL (3) COMMUNICATIONS
- D MCI NETWORKS SERVICES
- E ORANGE COUNTY SANITATION DISTRICT
- F SOUTHERN CALIFORNIA EDISON
- G SOUTHERN CALIFORNIA GAS COMPANY
- H TIME WARNER CABLE



MARK	DESCRIPTION	DATE	APPR.

PREPARED UNDER THE RESPONSIBLE CHARGE OF:

12/23/09  
R. HOISINGTON  
DATE

12/23/09  
R. HOISINGTON  
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DESIGNED BY: H. OH  
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DRAWN BY: H. OH  
DRAWING CODE: FILE NAME: SCALE: AS SHOWN  
PLOT DATE: 11/24/2010

COUNTY OF ORANGE  
OC PUBLIC WORKS

PREPARED BY:  
BRIDGE DESIGN SECTION

BROWNING AVENUE SIDEWALK  
GAP CLOSURE PROJECT  
RIVER FORD ROAD TO IRVINE BL.

PLAN AND  
PROFILE

STA 11+00 TO 14+00

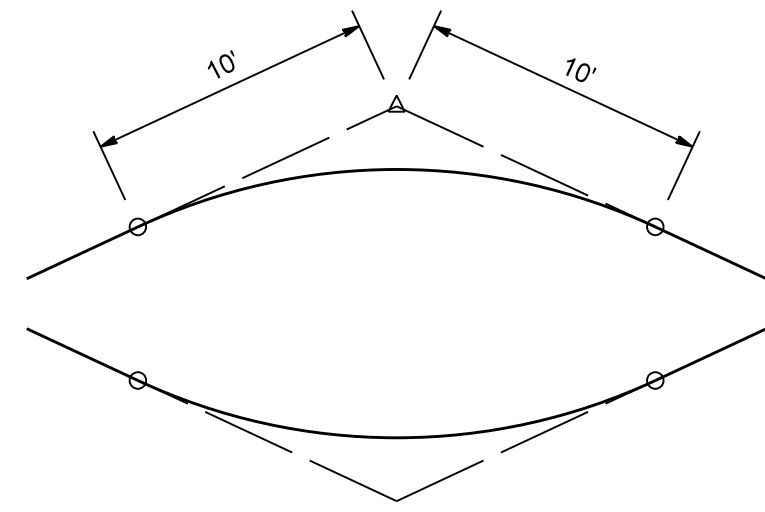
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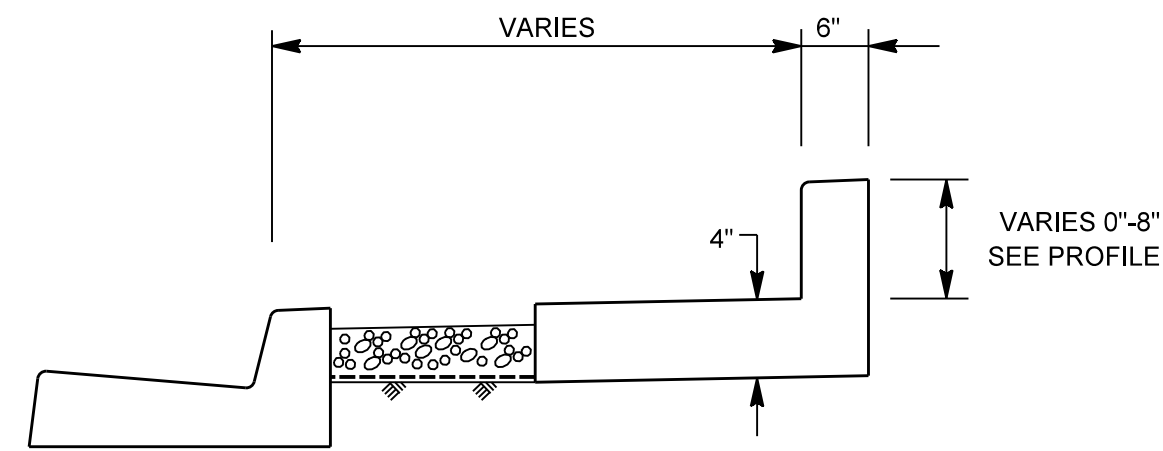
CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIALS.





20' VERTICAL CURVE AT TOP  
OF SW CURB SLOPE CHANGE (TYP.)

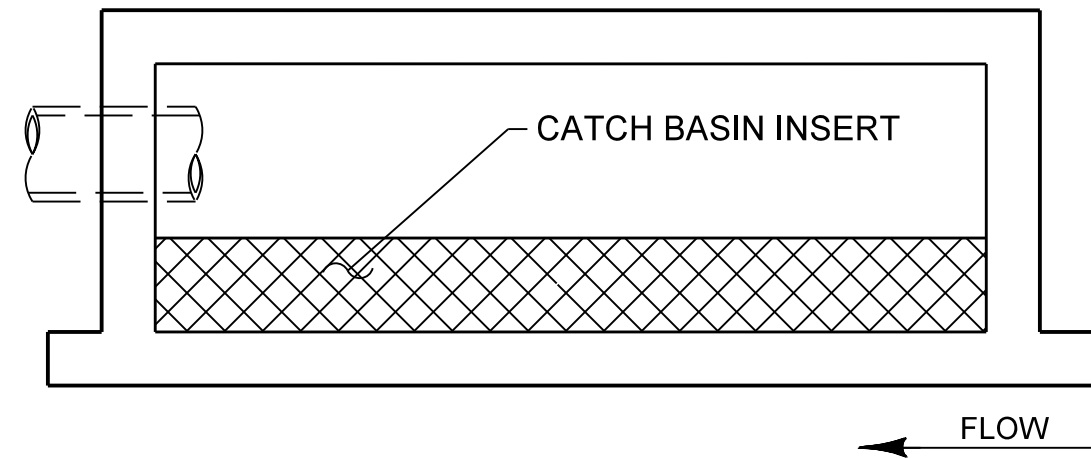
NTS



BACK OF SW CURB DETAIL  
FOR CURB HEIGHT  $\leq 8"$

NTS

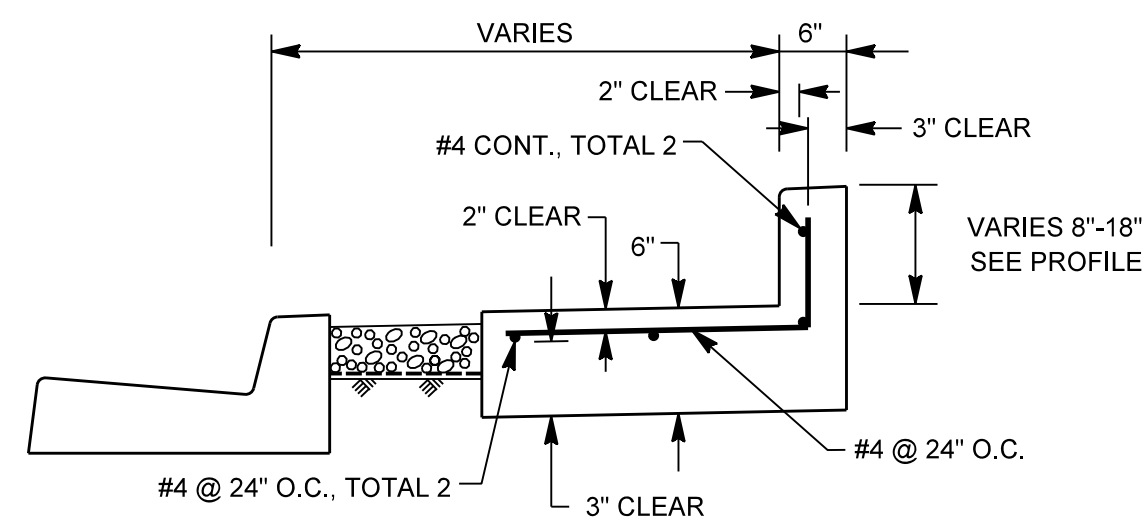
NOTE: SIDEWALK AND SW CURB SHALL  
BE A SINGLE POUR (NO JOINTS)



CATCH BASIN (PLAN VIEW)

NTS

NOTE: CATCH BASIN-INLET TYPE 01, LOCATED ON BROWNING AVENUE, 35' NORTH OF NORTH  
WEST CORNER OF BROWNING AVENUE AND BRYAN AVENUE INTERSECTION (SEE LOCATION  
MAP ON SHT 1). INSTALL CATCH BASIN INLET INSERT AND AUTOMATIC RETRACTABLE INLET  
SCREEN COVER PER SPECIAL PROVISIONS AND MANUFACTURER'S STANDARDS.



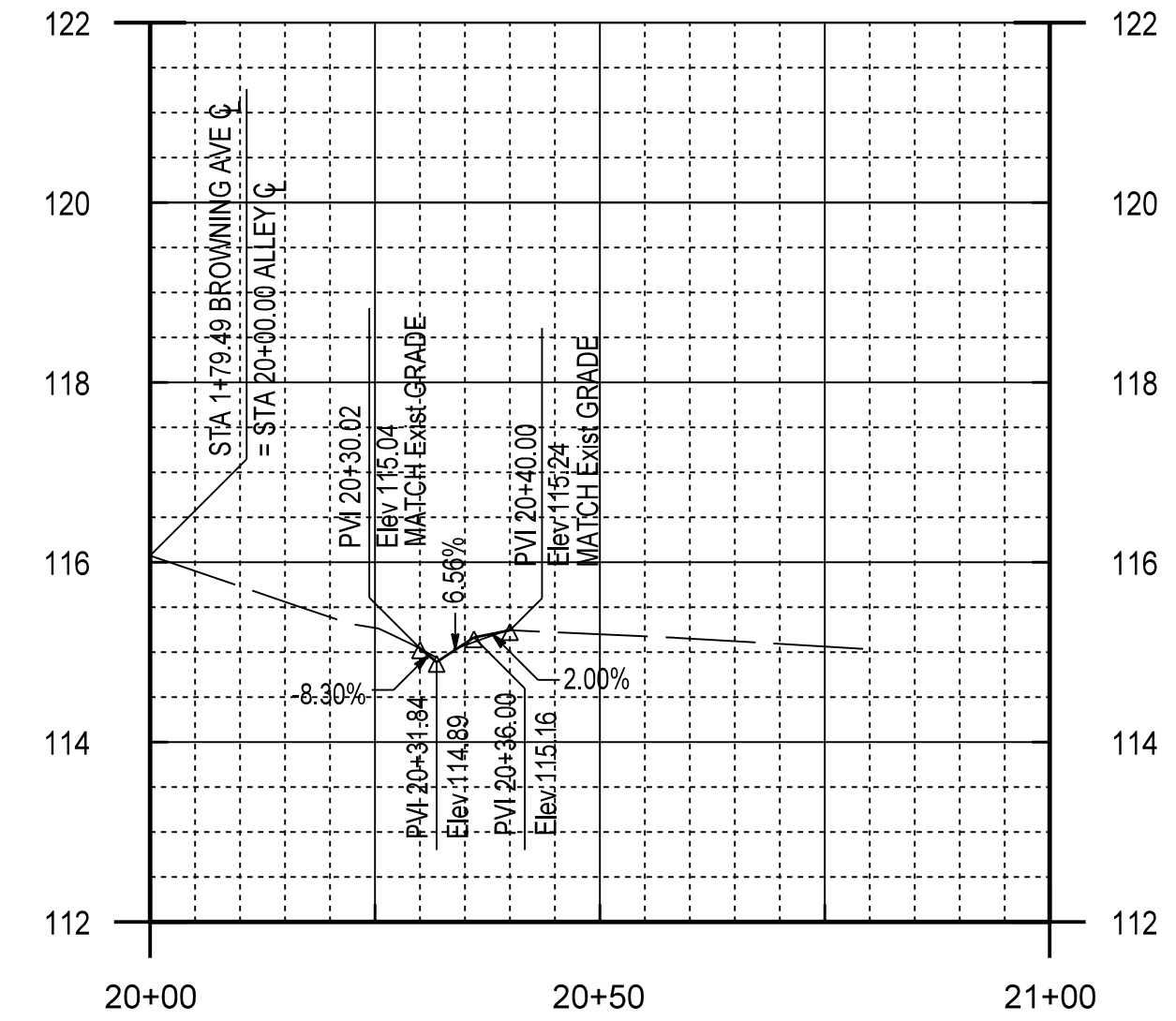
BACK OF SW CURB DETAIL  
FOR CURB HEIGHT  $> 8"$

NTS

NOTE: SIDEWALK AND SW CURB SHALL  
BE A SINGLE POUR (NO JOINTS)

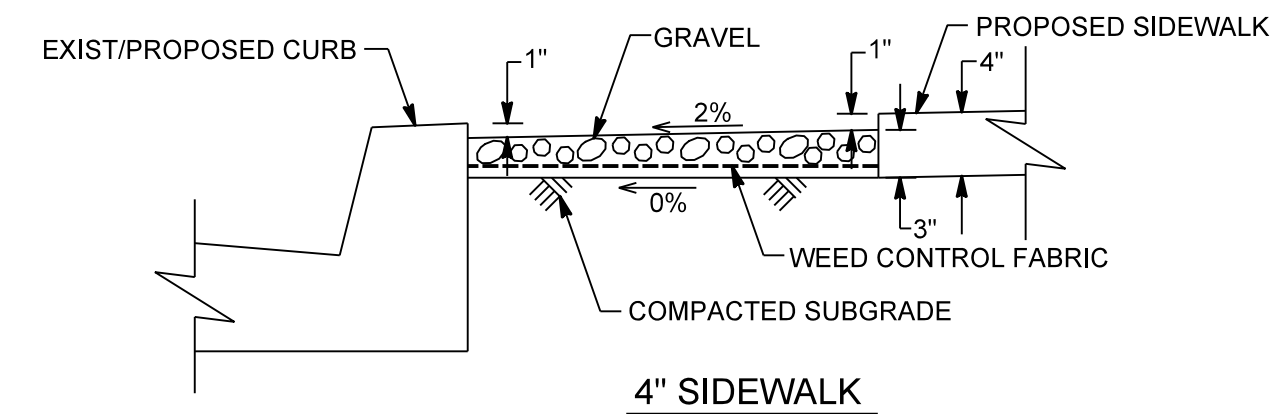
AS BUILT

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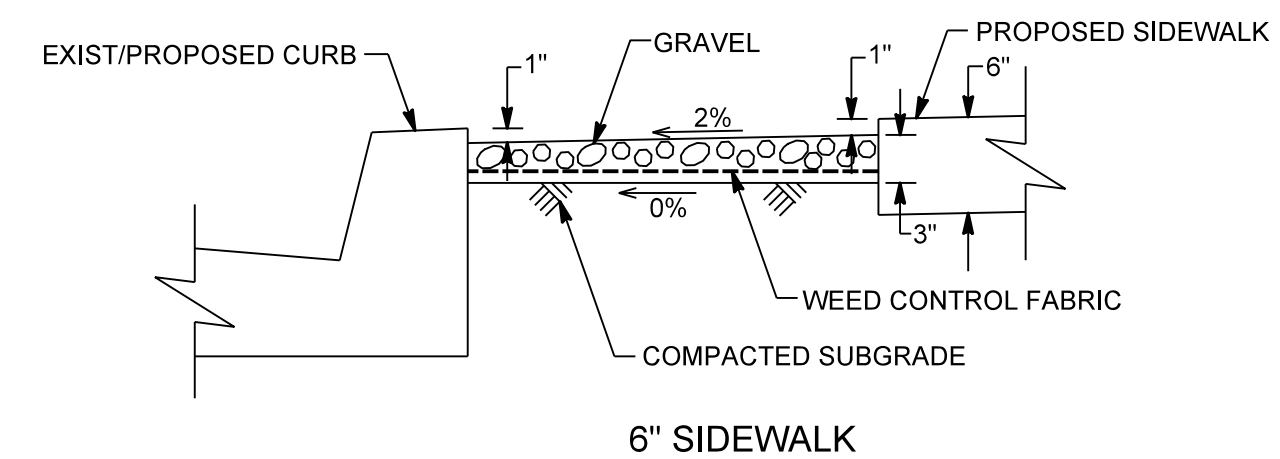


ALLEY INTERSECTION PROFILE

SCALE: HORIZ 1" = 20'  
VERT 1" = 2'

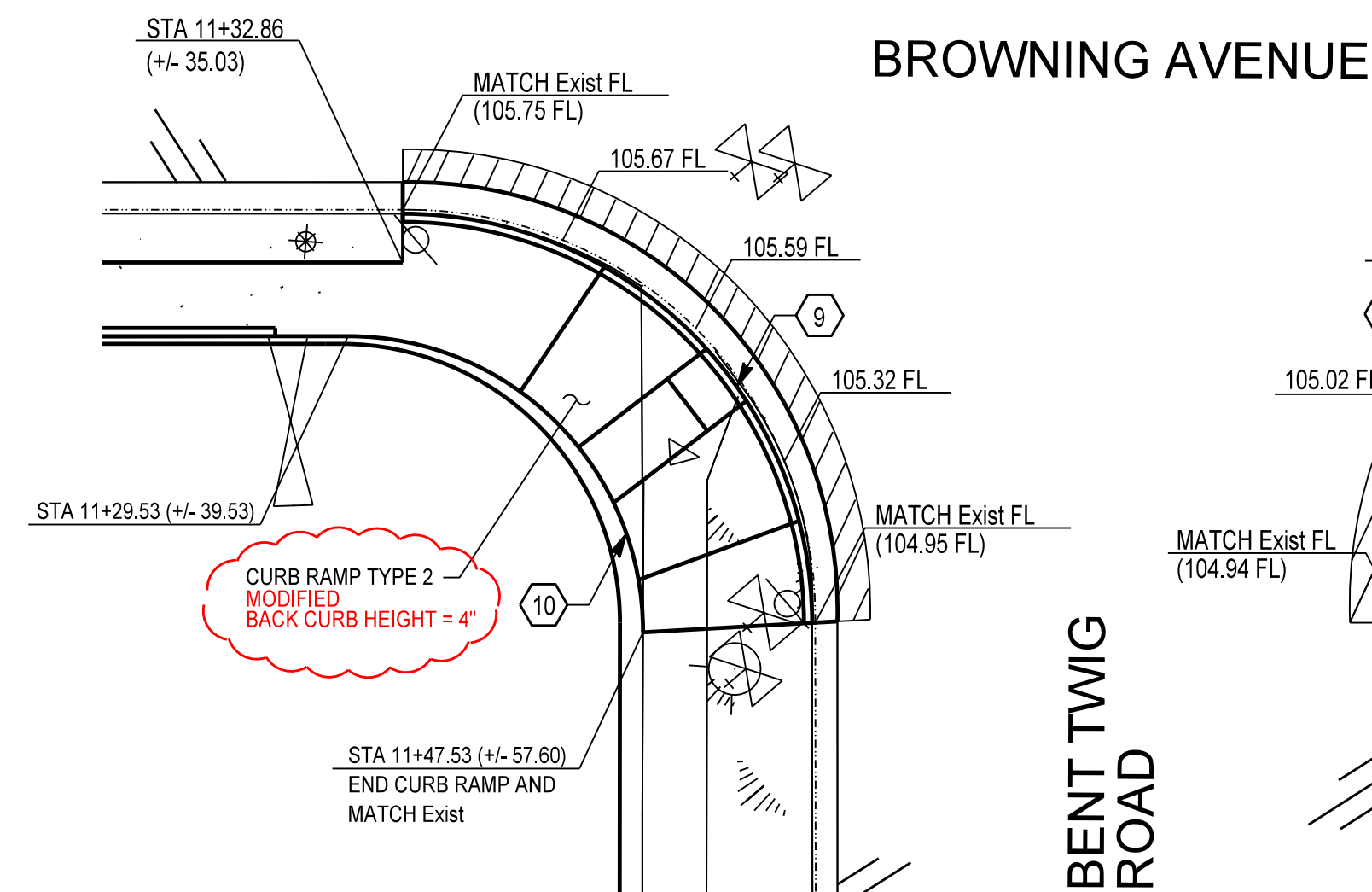


4" SIDEWALK



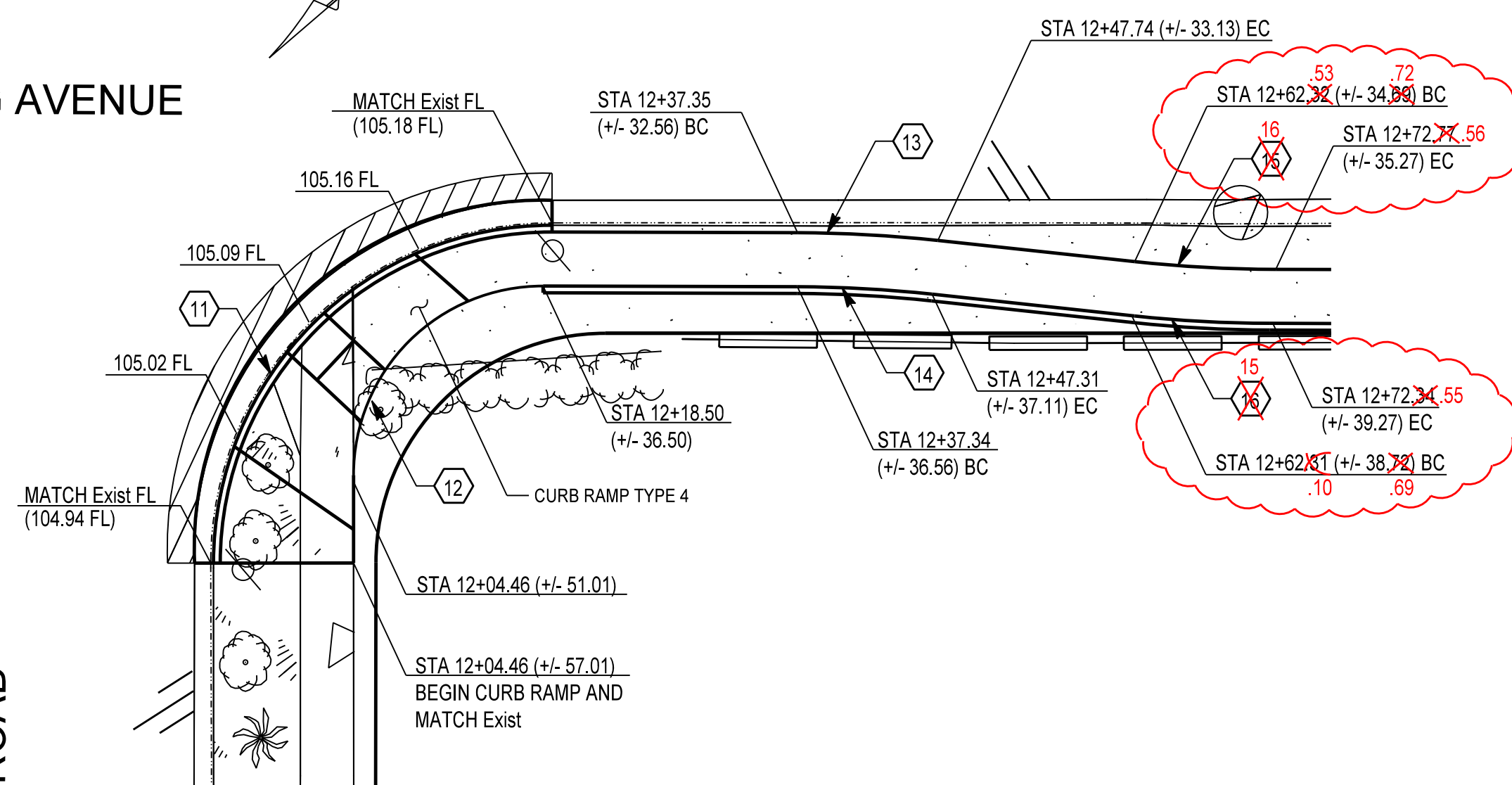
GRAVEL MULCH

NTS



CURB RAMP AND SIDEWALK DETAILS

SCALE 1"=10'



CURVE DATA									
No.	R	$\Delta$	T	L	No.	R	$\Delta$	T	L
9	25.00'	89°53'57"	24.96'	39.23'	13	100.00'	5°57'55"	5.21'	10.41'
10	18.00'	90°13'13"	18.07'	28.34'	14	96.00'	5°57'55"	5.00'	9.99'
11	25.00'	90°11'57"	25.09'	39.36'	15	100.00'	5°59'58"	5.24'	10.47'
12	14.00'	90°11'38"	14.05'	22.04'	16	96.00'	5°59'58"	5.03'	10.05'

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MARK	DESCRIPTION	DATE	APPR

PREPARED UNDER THE RESPONSIBLE CHARGE OF:

CIVIL ENGINEER  
RICHARD M. HOISINGTON  
No. 62423  
Exp. 3/31/11

12/23/09  
DATE

R. HOISINGTON

DESIGNED BY: H. OH  
DRAWN BY: H. OH  
CHECKED BY: R. HOISINGTON  
DRAWING CODE: FILE NAME: PLOT DATE: 11/24/2010  
SCALE: AS SHOWN

COUNTY OF ORANGE  
OC PUBLIC WORKS

PREPARED BY:  
BRIDGE DESIGN SECTION

BROWNING AVENUE SIDEWALK  
GAP CLOSURE PROJECT  
RIVER FORD ROAD TO IRVINE BL.

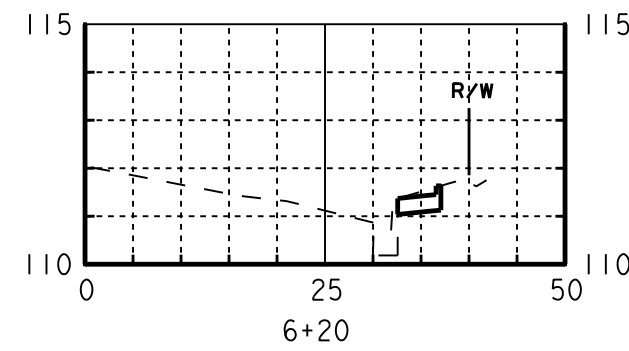
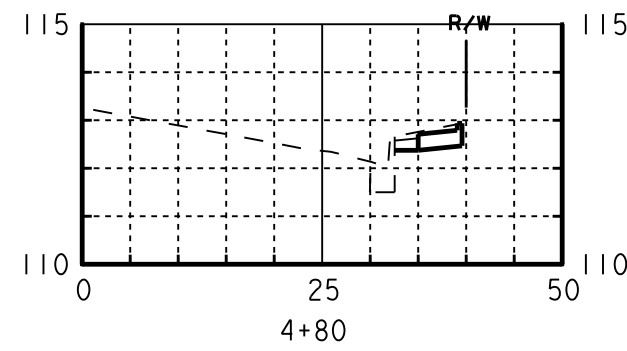
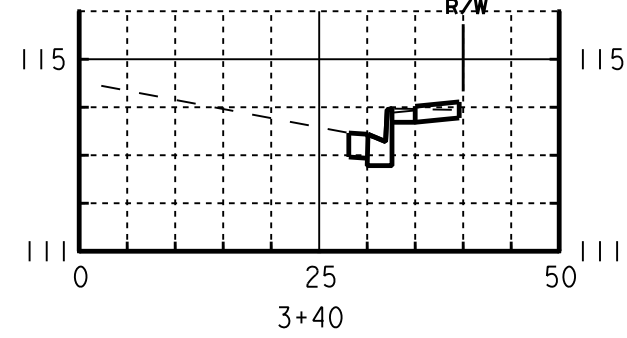
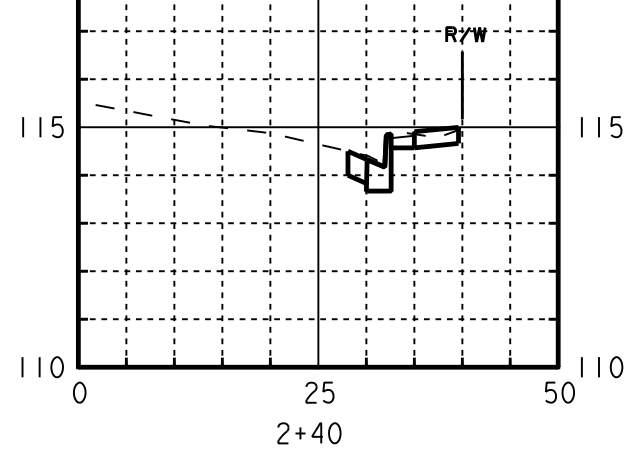
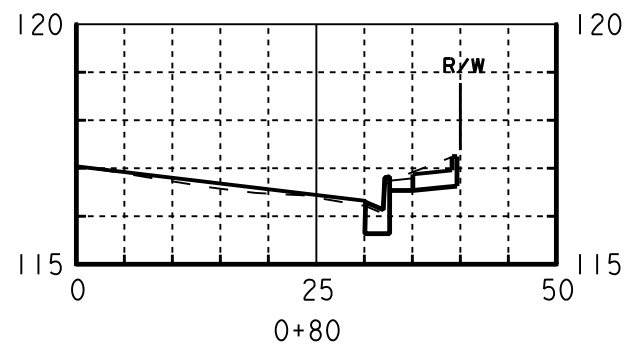
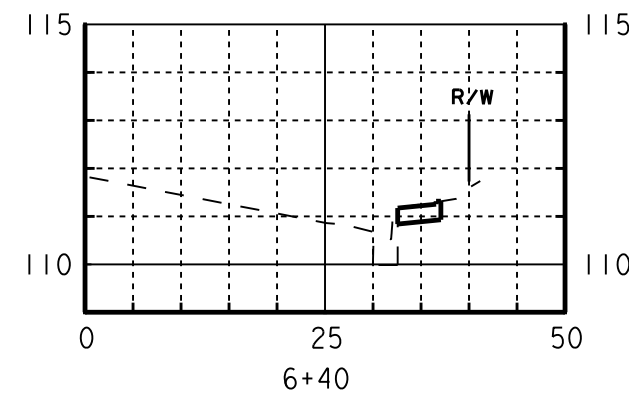
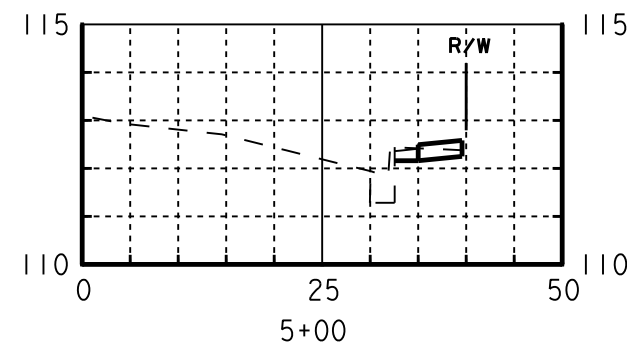
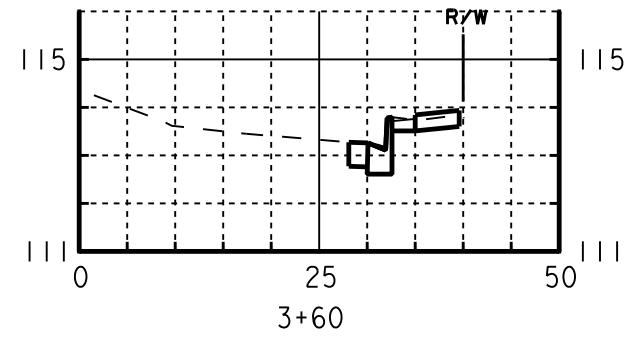
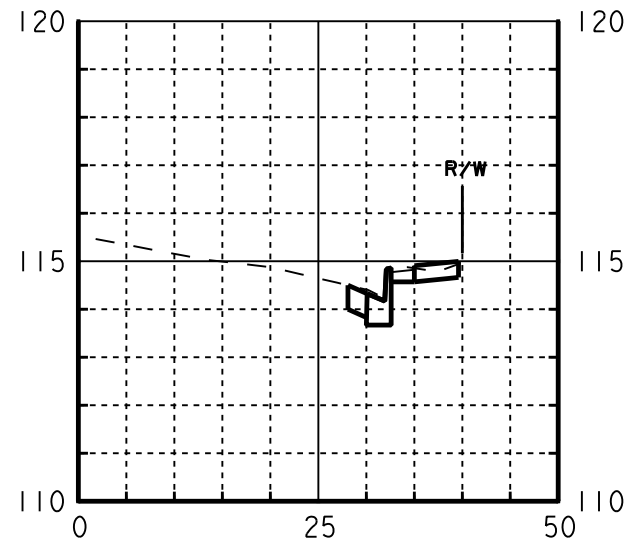
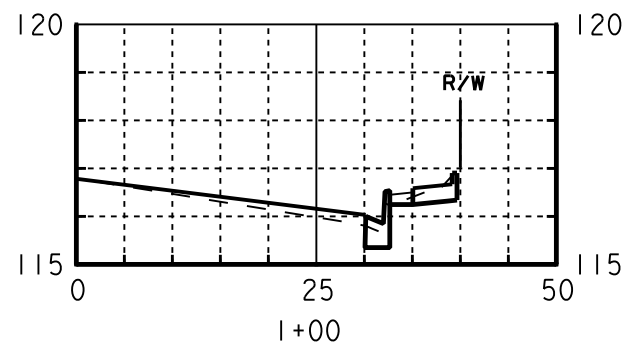
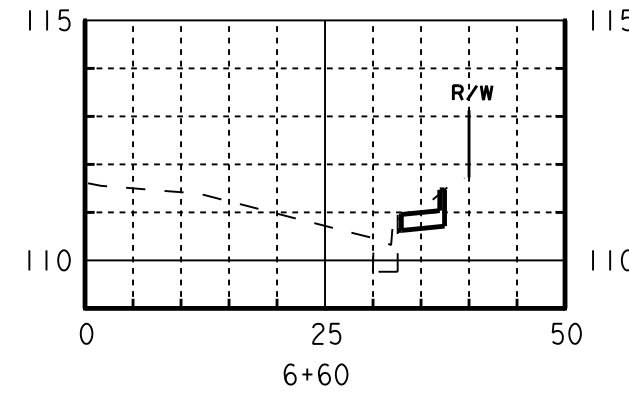
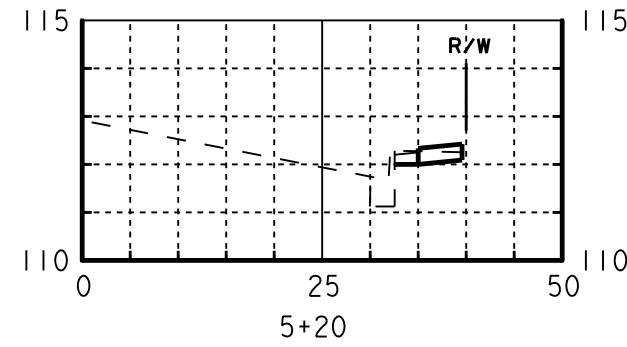
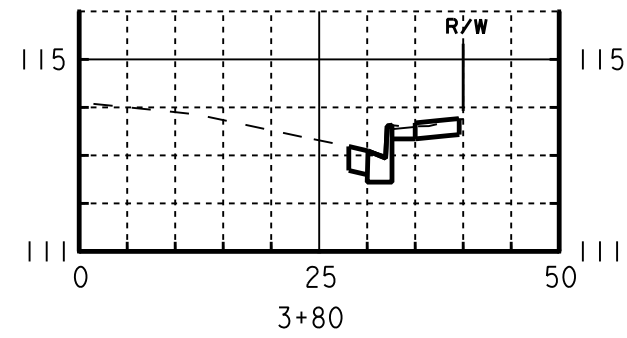
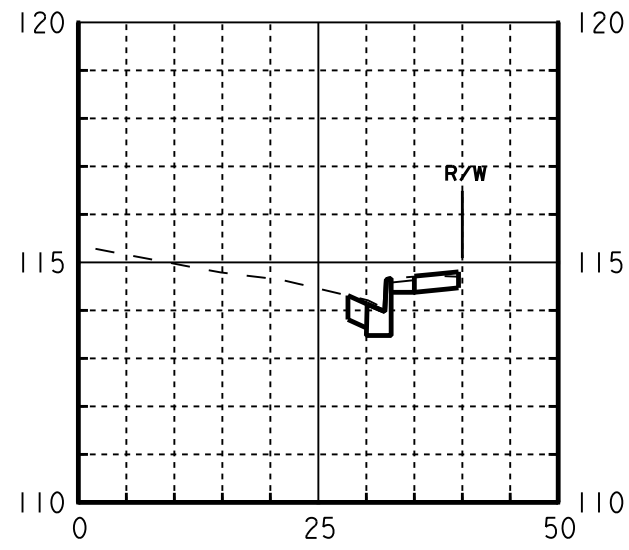
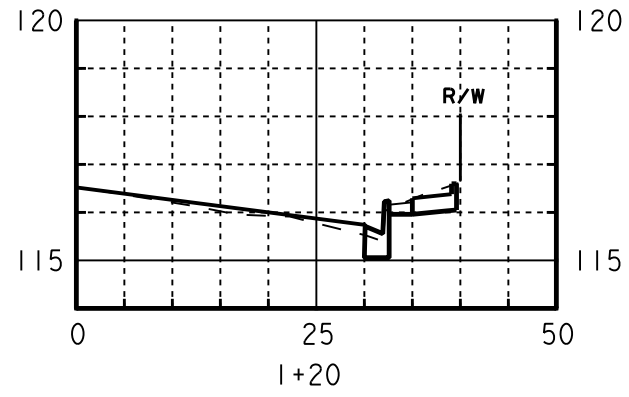
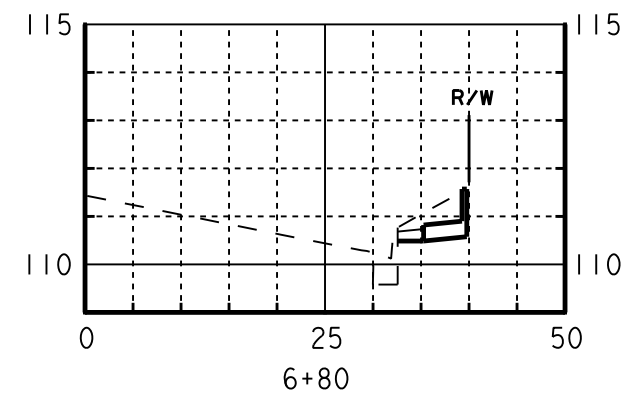
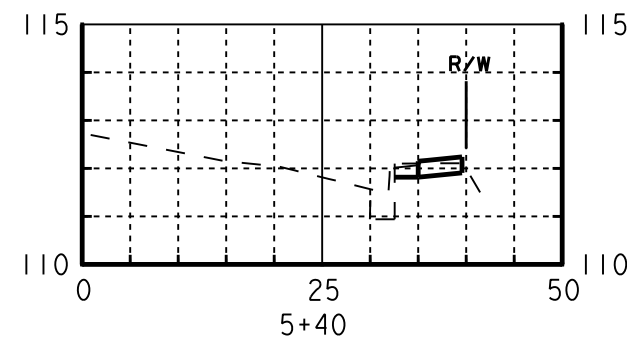
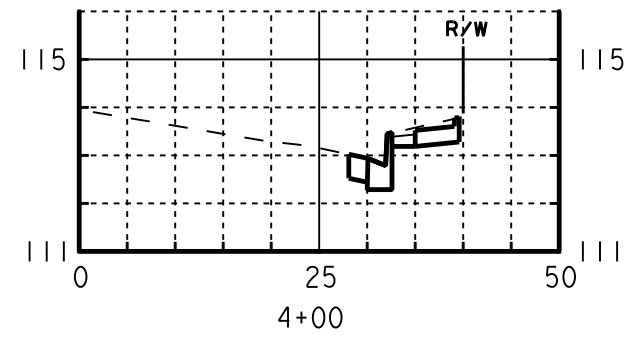
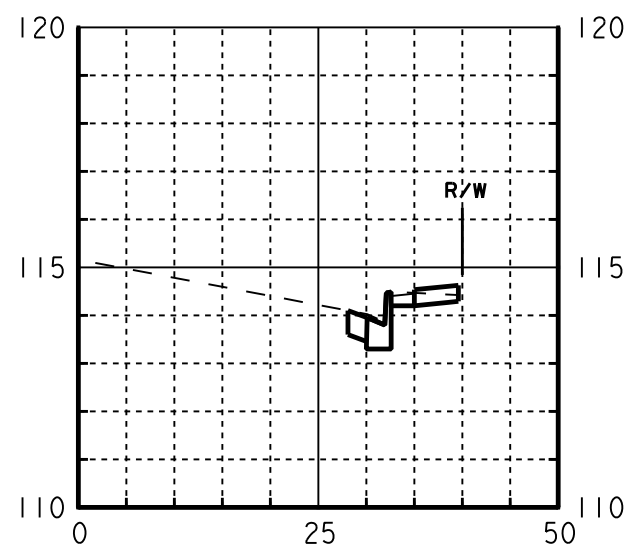
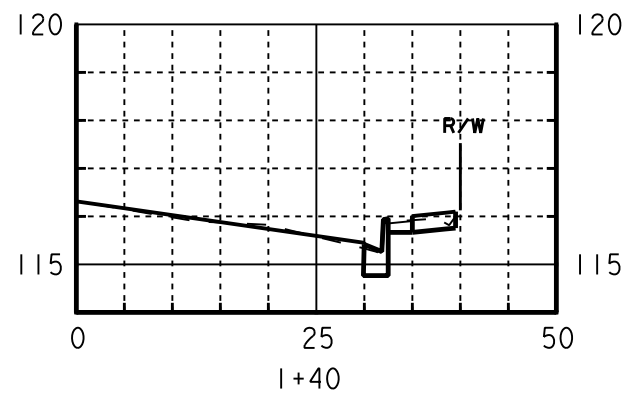
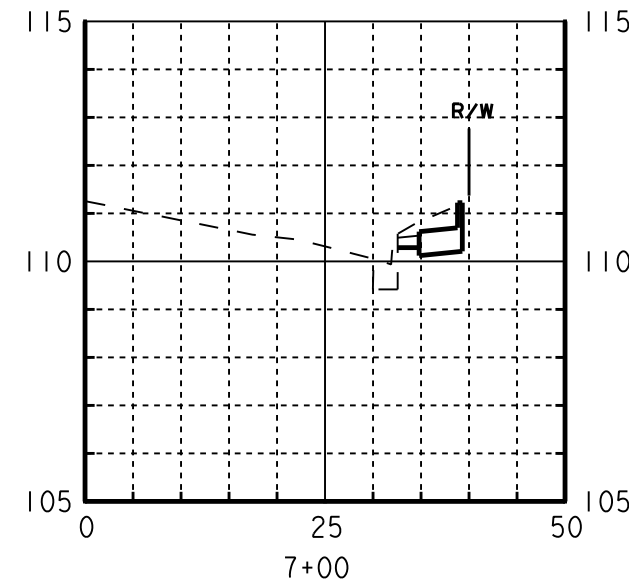
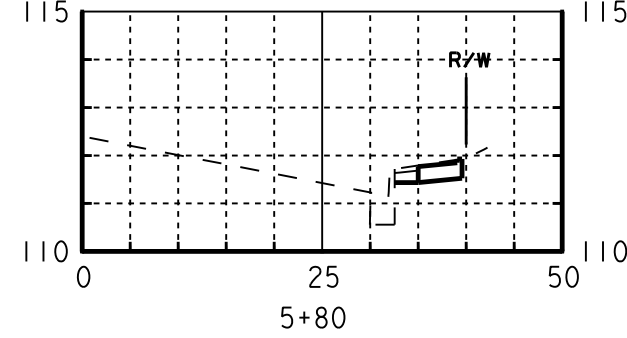
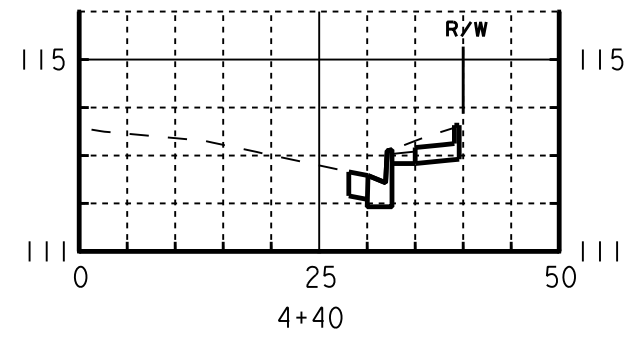
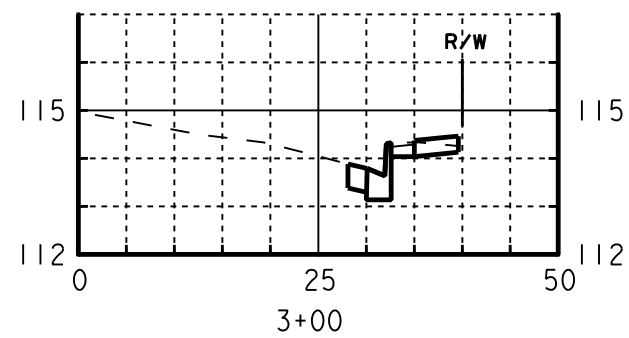
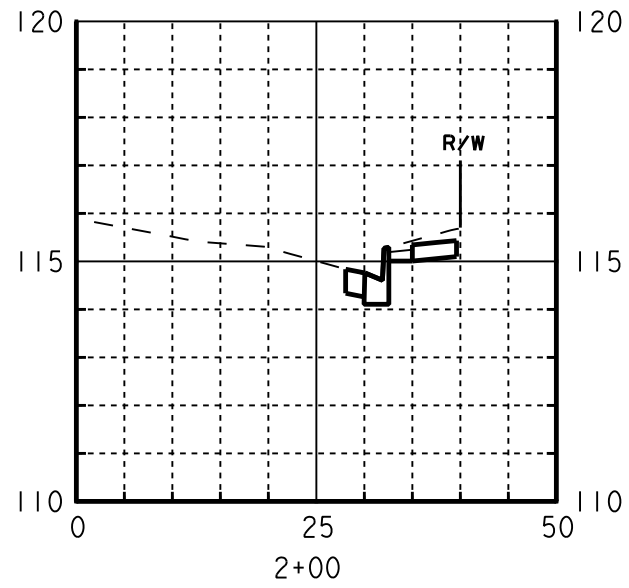
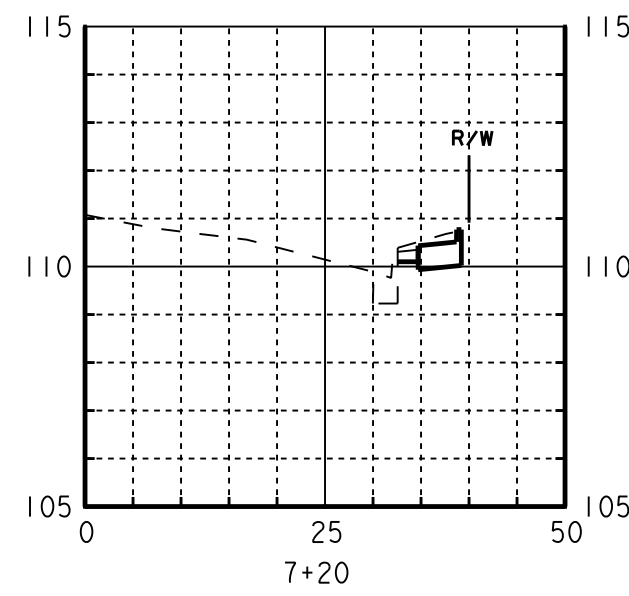
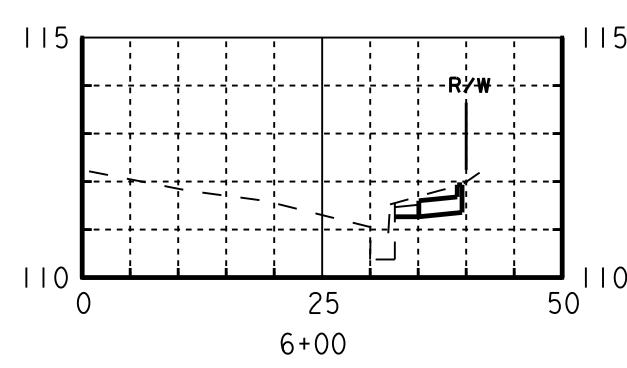
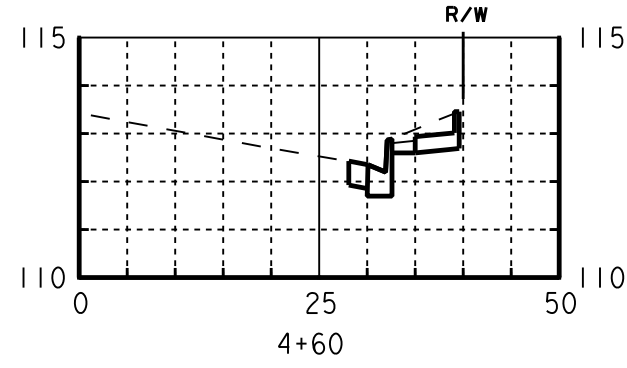
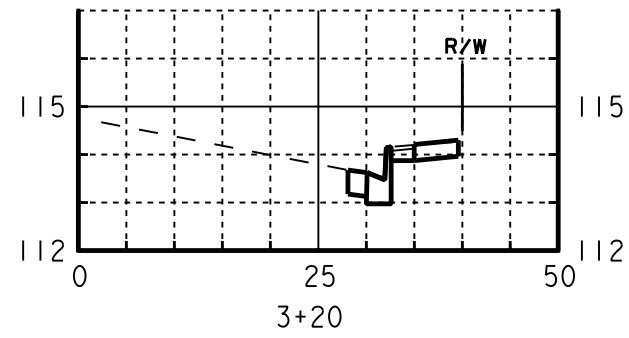
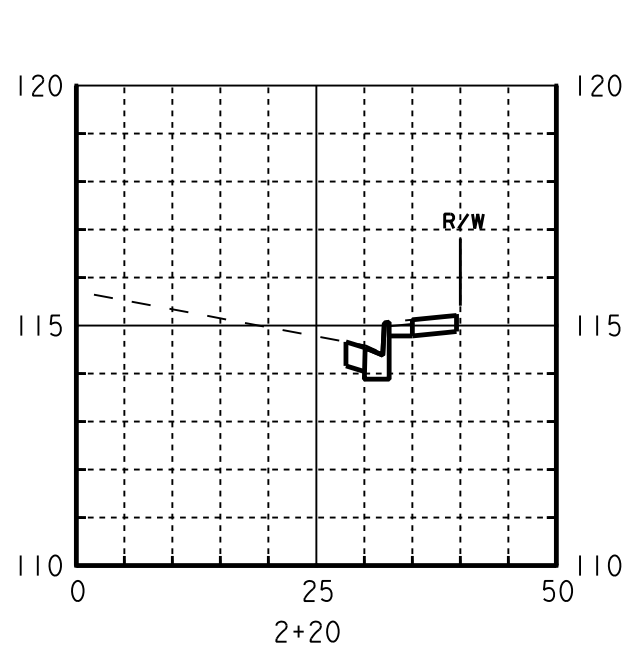
MISCELLANEOUS  
DETAILS

Sheet  
Reference  
Number

7

Sheet 7 of 9

NO AS BUILT CHANGES

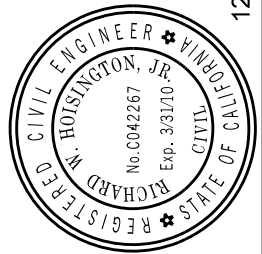


SCALE: HORIZ 1"=20'  
VERT 1"=5'



MARK	DESCRIPTION	DATE	APPR

PREPARED UNDER THE RESPONSIBLE CHARGE OF:



*R. Hosington*  
R. HOSINGTON

12/23/09  
DATE

DESIGNED BY: H. OH	CHECKED BY: R. HOSINGTON	SCALE: AS SHOWN
DRAWN BY: H. OH	DRAWING CODE:	FILE NAME:
COUNTRY OF ORANGE OC PUBLIC WORKS		PLOT DATE: 11/24/2010
PREPARED BY: BRIDGE DESIGN SECTION		

BROWNING AVENUE SIDEWALK  
GAP CLOSURE PROJECT  
RIVER FORD ROAD TO IRVINE BL.

**CROSS  
SECTIONS**

STA 0+80 TO STA 7+20

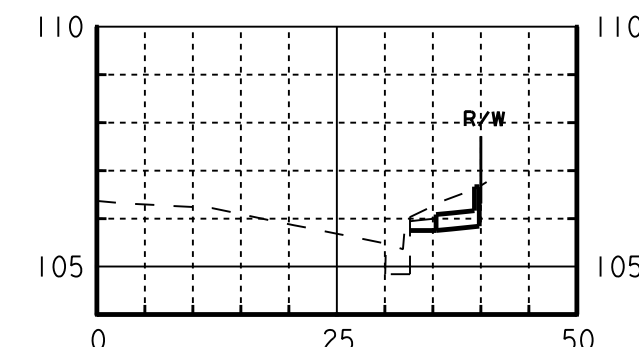
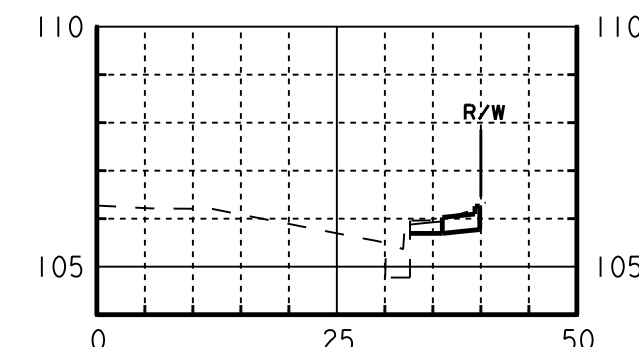
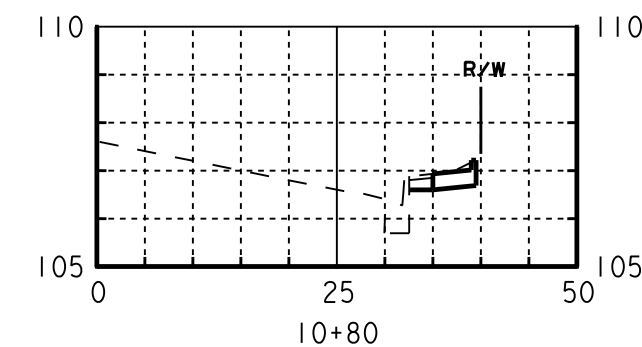
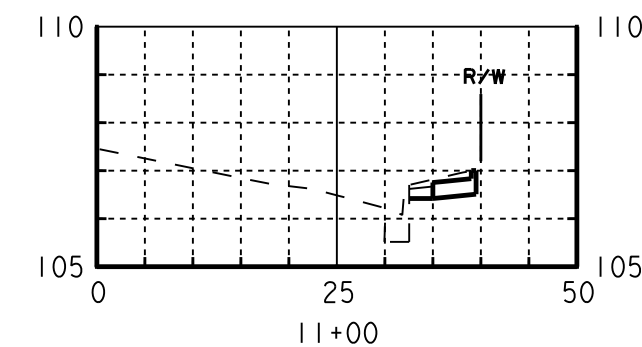
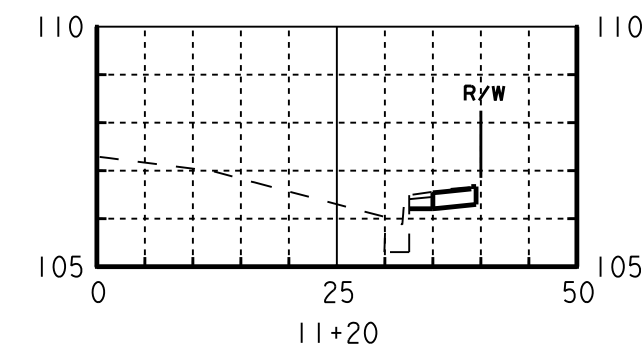
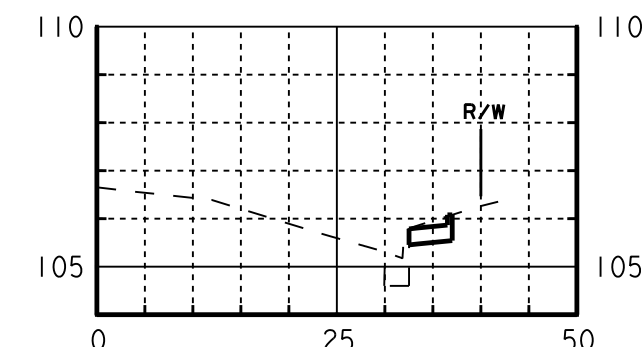
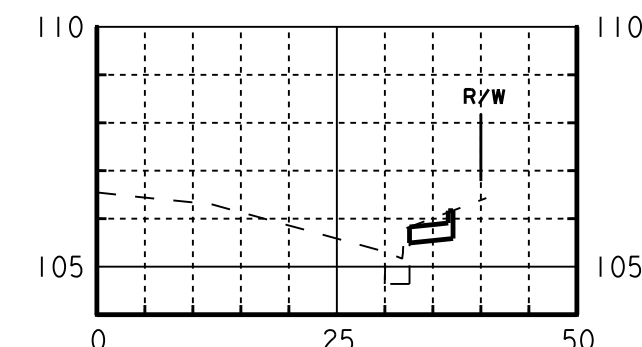
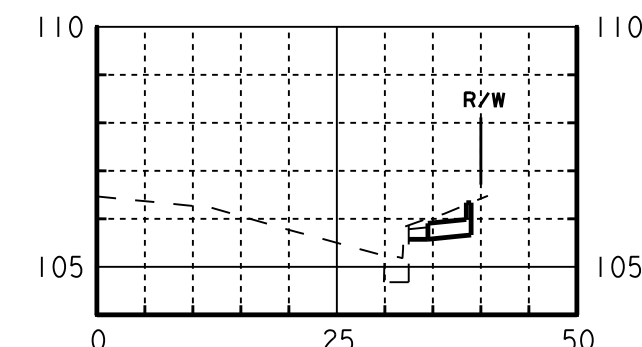
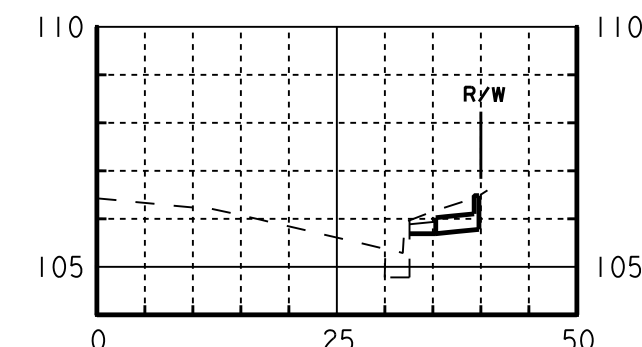
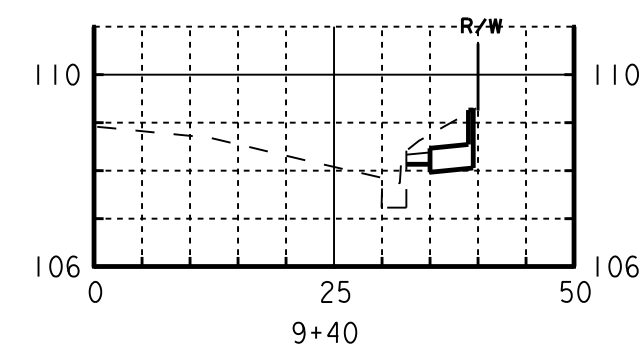
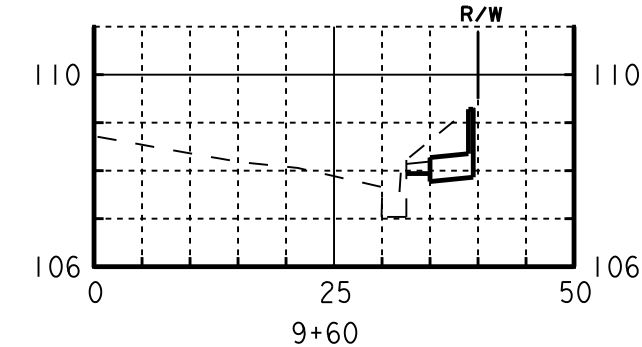
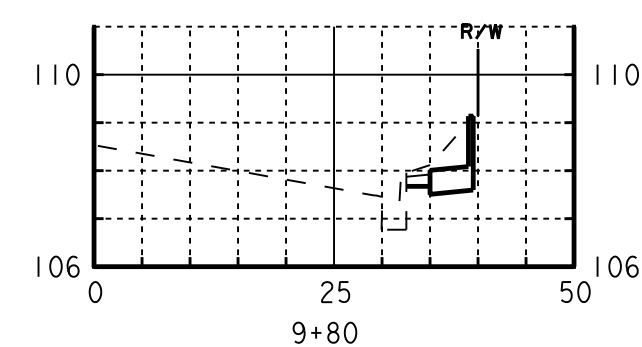
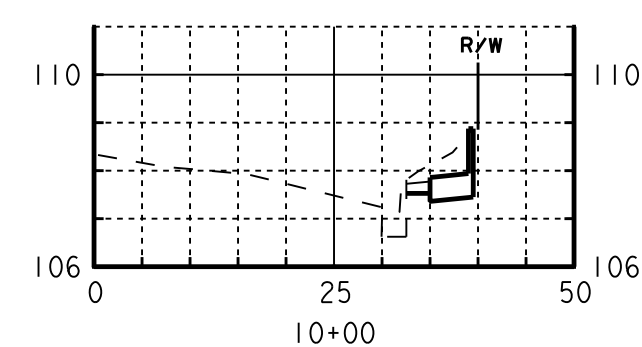
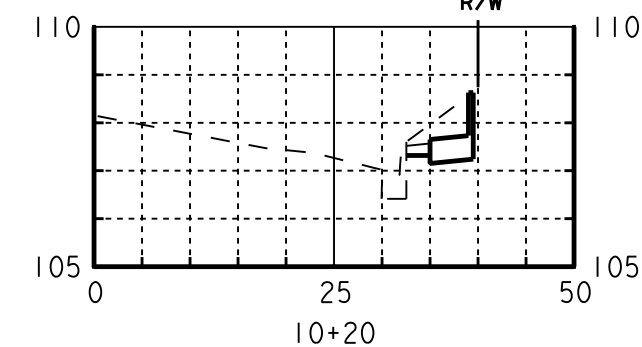
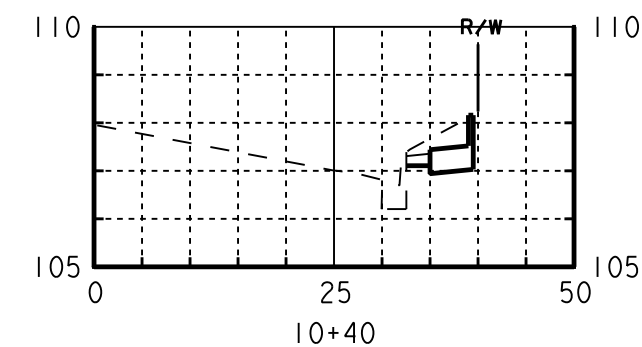
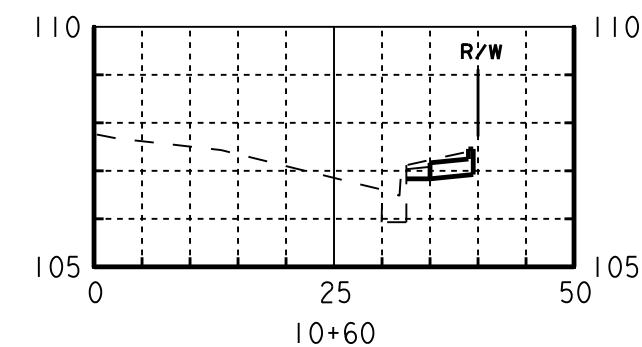
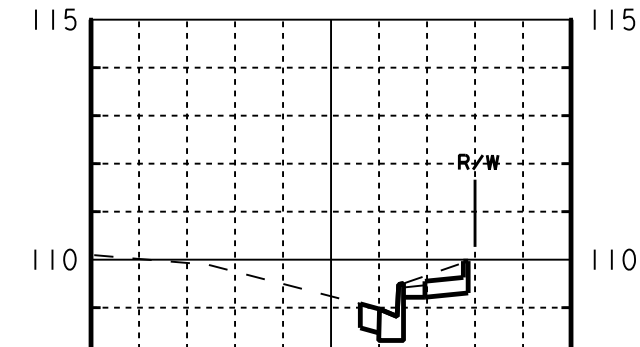
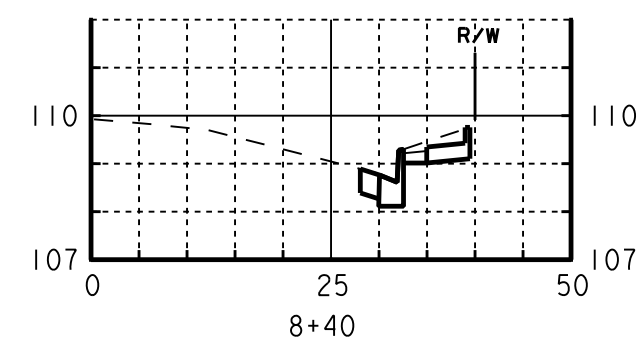
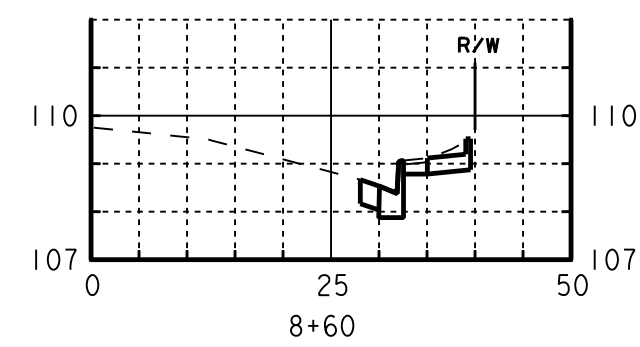
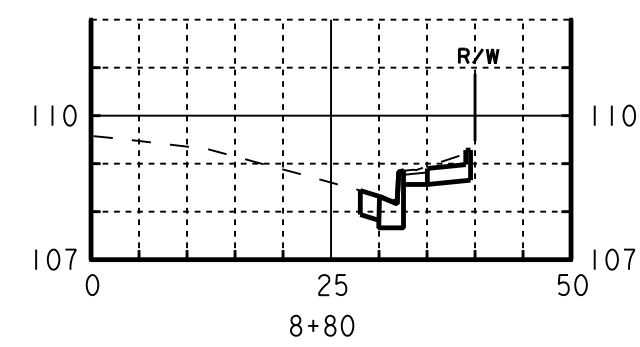
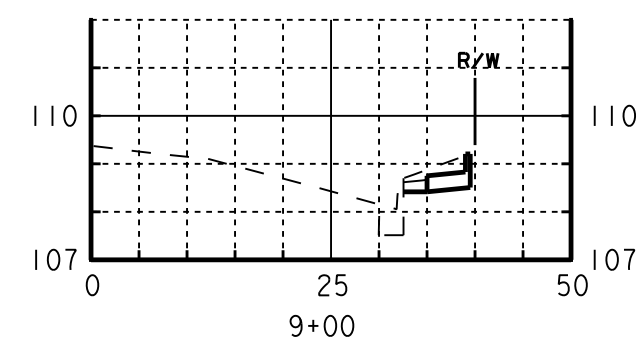
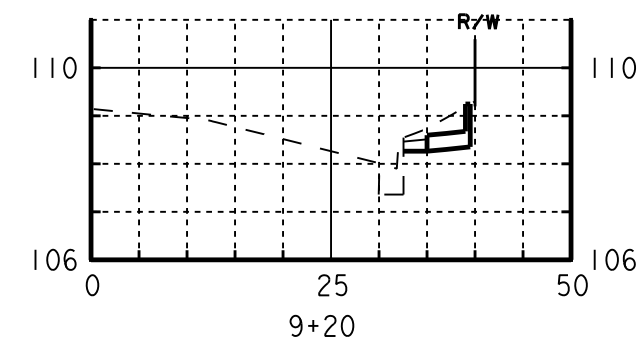
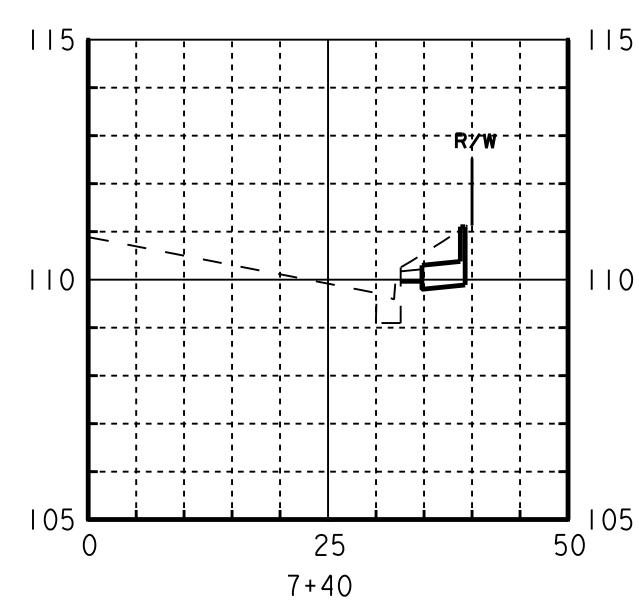
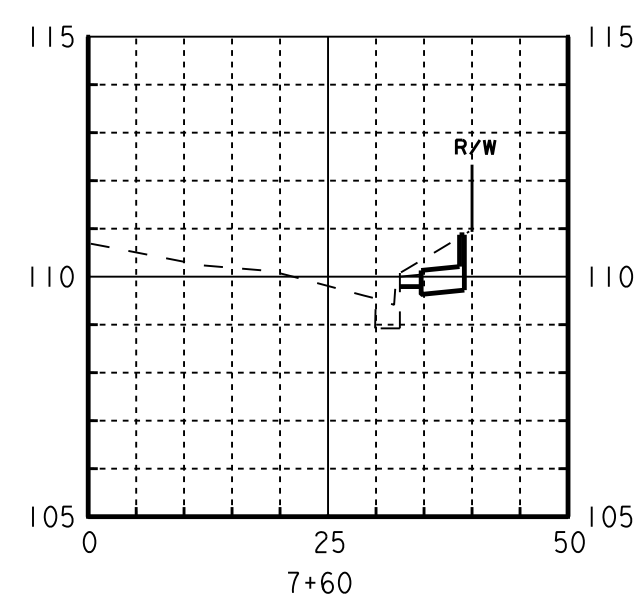
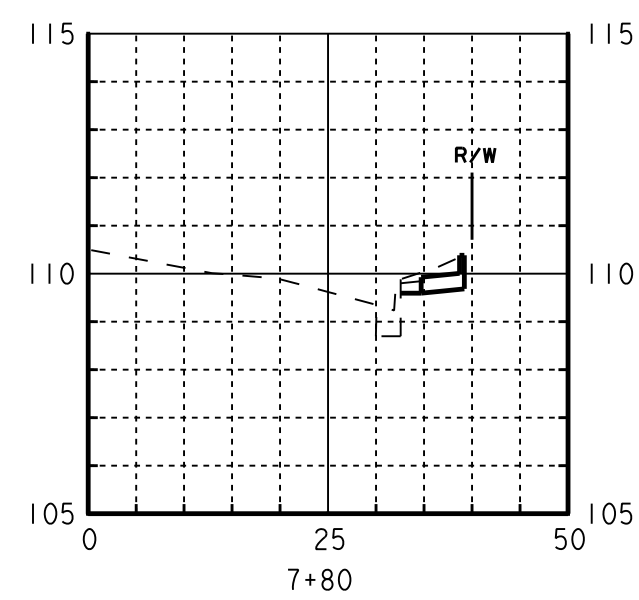
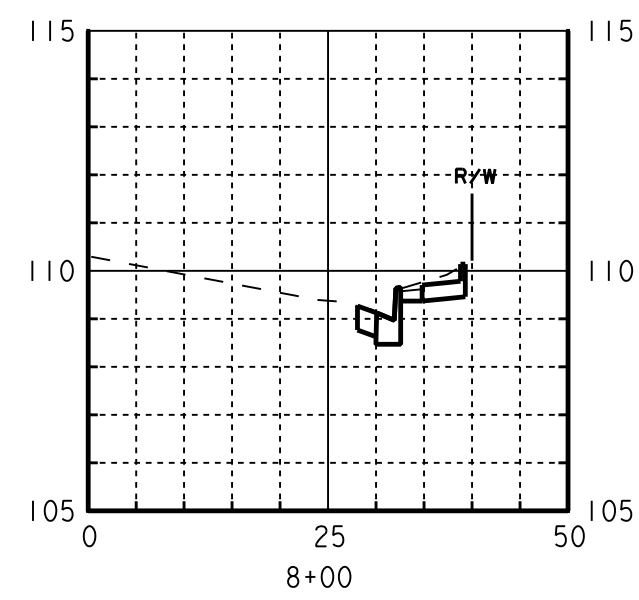
Sheet  
Reference  
Number

**8**

Sheet 8 of 9



## NO AS BUILT CHANGES



SCALE: HORIZ 1"=20'  
VERT 1"=5'

[illegible]

PREPARED UNDER THE RESPONSIBLE CHARGE OF:

*Re. Kuntz*

R. HOUSTON

DATE

12/23/09

Seal of the American Society of Civil Engineers (ASCE) with text: CIVIL ENGINEER, AMERICAN SOCIETY OF CIVIL ENGINEERS, REG. NO. 6424287, Exp. 3/31/10, ALABAMA

COUNTY OF ORANGE OC PUBLIC WORKS	DESIGNED BY:	H. OH
	DRAWN BY:	CHECKED BY:
	H. OH	R. HOISINGTON
	DRAWING CODE:	
PREPARED BY: BRIDGE DESIGN SECTION	FILE NAME:	
	PLOT DATE:	SCALE: AS SHOWN 11/24/2010

**BROWNING AVENUE SIDEWALK  
GAP CLOSURE PROJECT  
RIVER FORD ROAD TO IRVINE BL.**

**CROSS  
SECTIONS**

STA 7+40 TO STA 13+20

A square box with a double border. Inside, the text "Sheet Reference Number" is at the top, the number "9" is in the center, and "Sheet 9 of 9" is at the bottom.