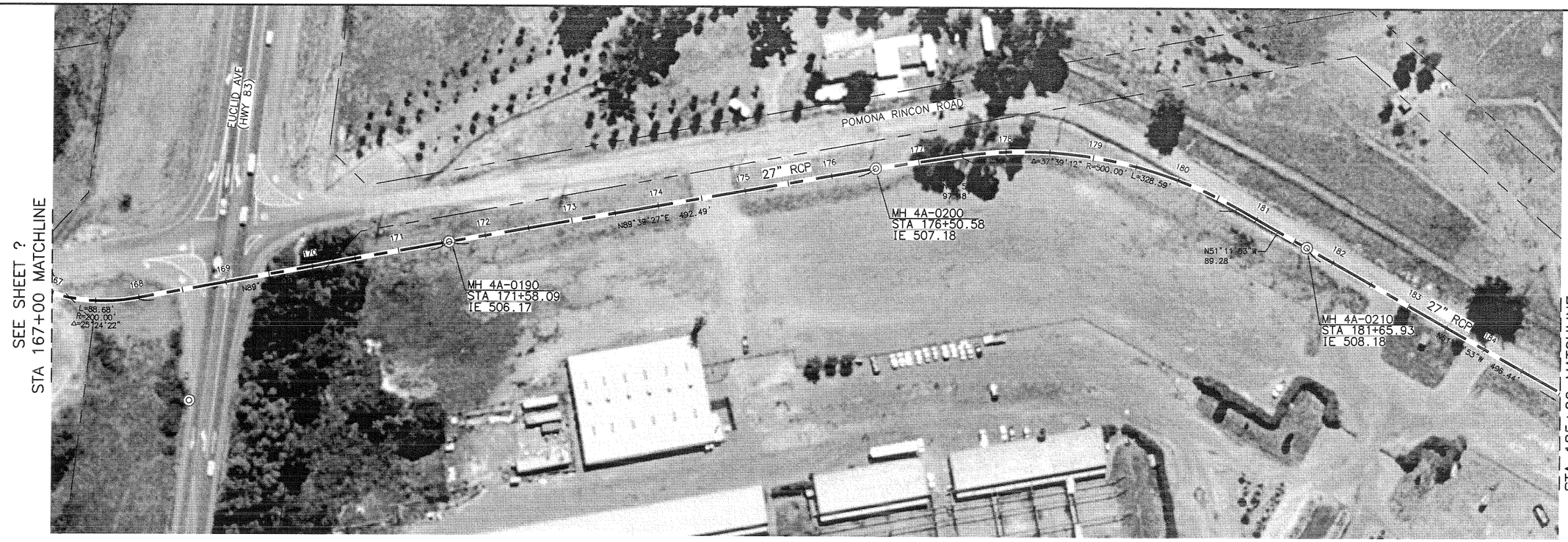
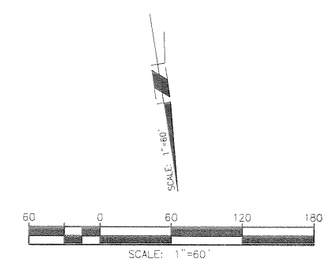


PLAN: REACH IV-A UPPER

SCALE 1"=60'



WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

PROJECT ENGINEER	RCE NO.	EXP. DATE
	38217	3/31/2011

REGISTERED PROFESSIONAL ENGINEER
JOHN H. HAMBLE
No. 38217
Exp. 3/31/09
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	APP
		RECORD DRAWINGS	

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE:

RBF CONSULTING
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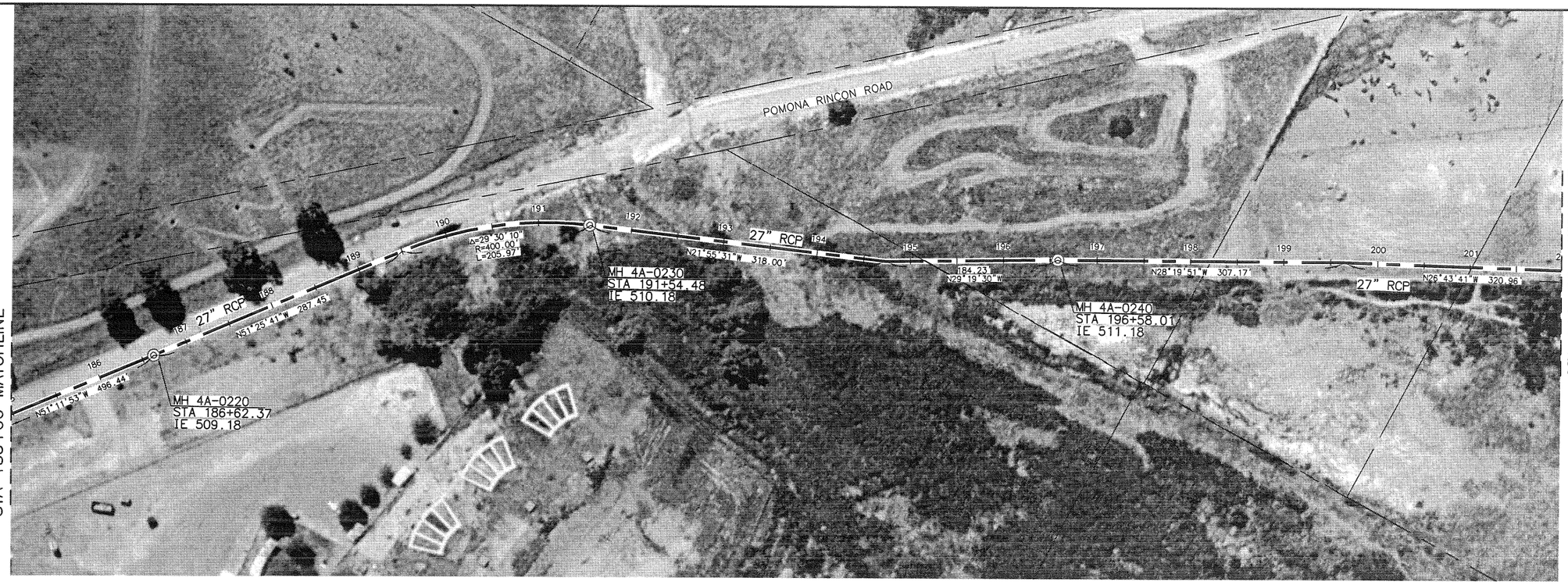
9755 CLAIREMONT MESA BLVD., SUITE 100
SAN DIEGO, CA 92124-1324
858.614.5000 • FAX 858.614.5001

SANTA ANA WATERSHED PROJECT AUTHORITY
11615 STERLING AVENUE • RIVERSIDE, CA 92503
(951) 354-4220 • www.sawpa.org

REPAIRS TO UNLINED RCP, REACHES IV-A AND IV-B
REACH IV-A UPPER
STATION 167+00 TO STATION 185+00

DRAWING NO.
SHEET:
OF SHEETS
FILE NO.



PLAN: REACH IV-A UPPER

SCALE 1"=60'

SCALE: 1"=60'

60 0 60 120 180

SCALE: 1"=60'

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

38217 3/31/2011
PROJECT ENGINEER RCE NO. EXP. DATE

REGISTERED PROFESSIONAL ENGINEER JOHN H. HADDEN No. 38217 Exp. 3/31/13 CIVIL STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	APP
		RECORD DRAWINGS	

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE:

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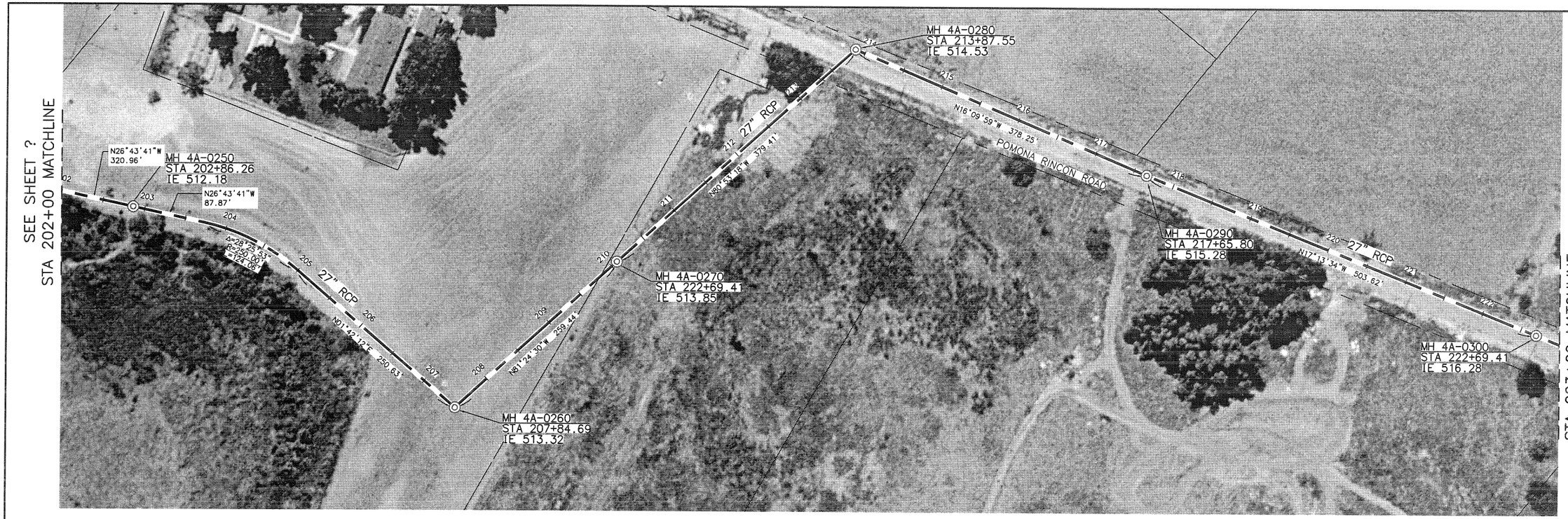
(951) 354-4220 • www.sawpa.org

REPAIRS TO UNLINED RCP, REACHES IV-A AND IV-B
REACH IV-A UPPER
STATION 185+00 TO STATION 202+00

DRAWING NO.
SHEET:
OF SHEETS
FILE NO.



PLAN: REACH IV-A UPPER

SCALE 1"=60'

SCALE: 1"=60'

60 0 60 120 180

SCALE: 1"=60'

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

PROJECT ENGINEER	RCE NO.	EXP. DATE
	38217	3/31/2011

REGISTERED PROFESSIONAL ENGINEER
DAVID H. KARRER
No. 38217
Exp. 3/31/09
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	APP
		RECORD DRAWINGS	

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE:

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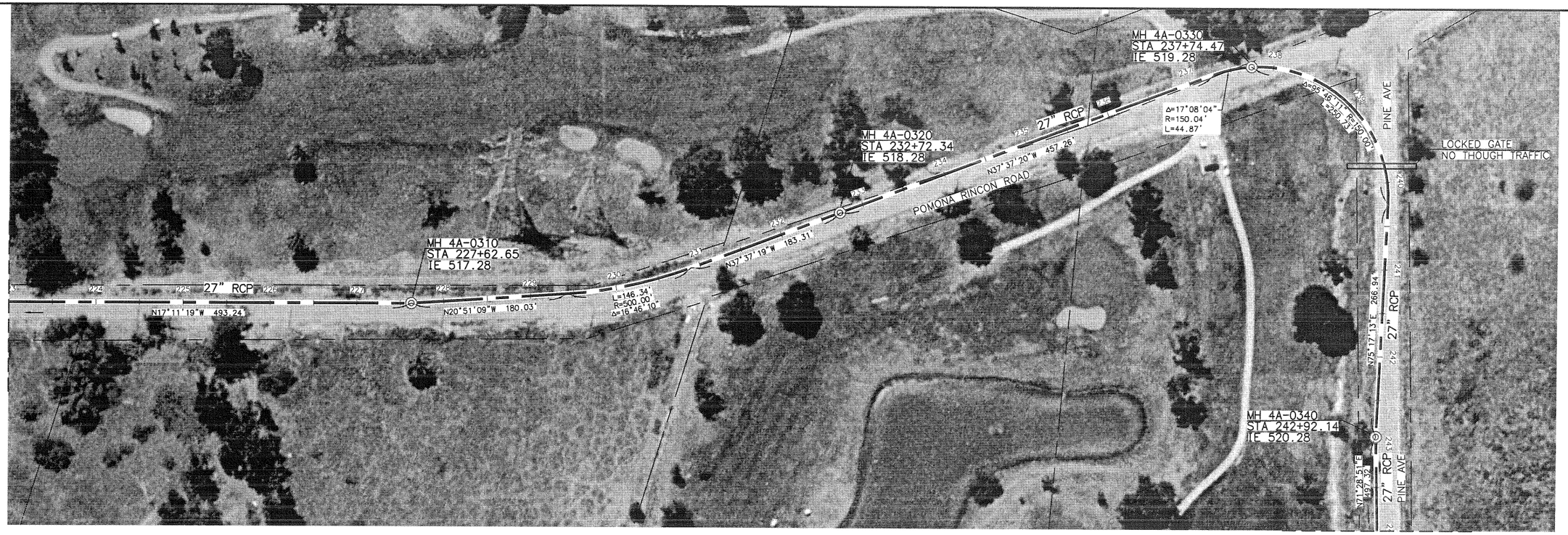
REPAIRS TO UNLINED RCP, REACHES IV-A AND IV-B

REACH IV-A UPPER
STATION 202+00 TO STATION 223+00

DRAWING NO.
SHEET:
OF SHEETS
FILE NO.

SEE SHEET ?
223+00.00 MATCHLINE



STA 244+00 MATCHLINE
SEE SHEET ?

PLAN: REACH IV-A UPPER

SCALE 1"=60'

SCALE: 1"=60'

60 0 60 120 180

SCALE: 1"=60'

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

PROJECT ENGINEER	RCE NO.	EXP. DATE
	38217	3/31/2011

REGISTERED PROFESSIONAL ENGINEER
JOHN R. HARRIS
No. 38217
Exp. 3/31/09
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	APP
		RECORD DRAWINGS	

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE:

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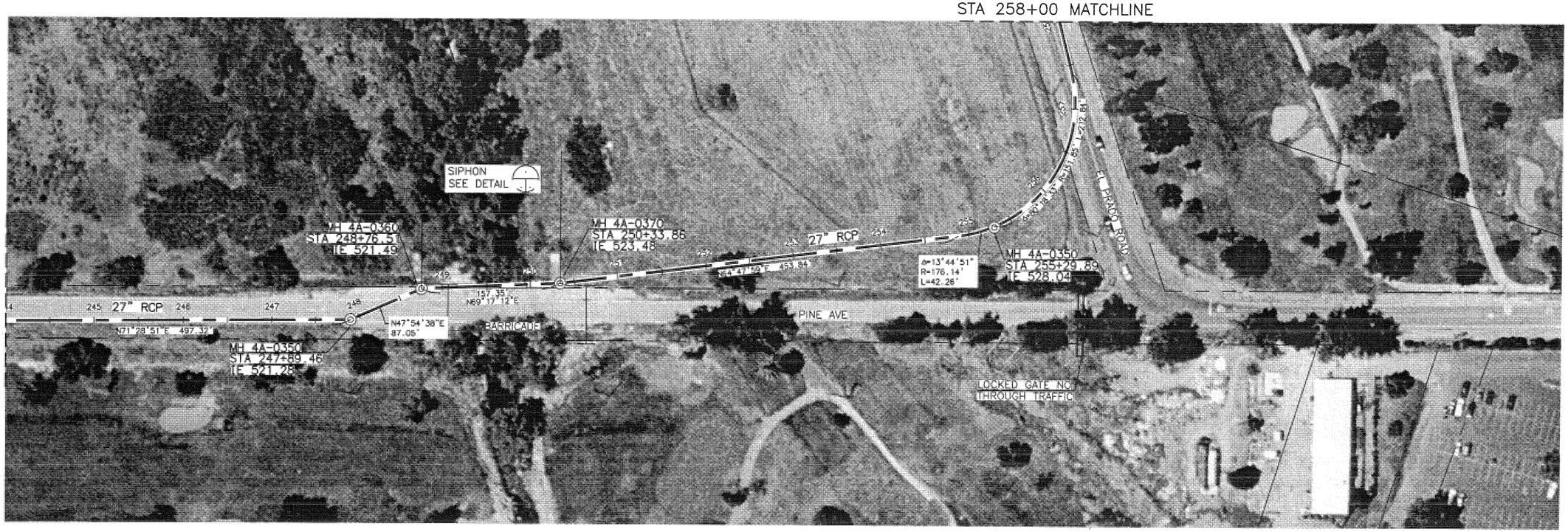
REPAIRS TO UNLINED RCP, REACHES IV-A AND IV-B
REACH IV-A UPPER
STATION 223+00 TO STATION 244+00

DRAWING NO.
SHEET:
OF SHEETS
FILE NO.

SEE SHEET ?
STA 258+00 MATCHLINE

SEE SHEET ?
STA 244+00 MATCHLINE



PLAN: REACH IV-A UPPER

SCALE 1"=60'

SCALE: 1"=60'

60 0 60 120 180

SCALE: 1"=60'

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

PROJECT ENGINEER	RCE NO.	EXP. DATE
	38217	3/31/2011

REGISTERED PROFESSIONAL ENGINEER
JOHN H. HARRIS
No. 38217
Exp. 3/31/09
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	APP
		RECORD DRAWINGS	

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE:

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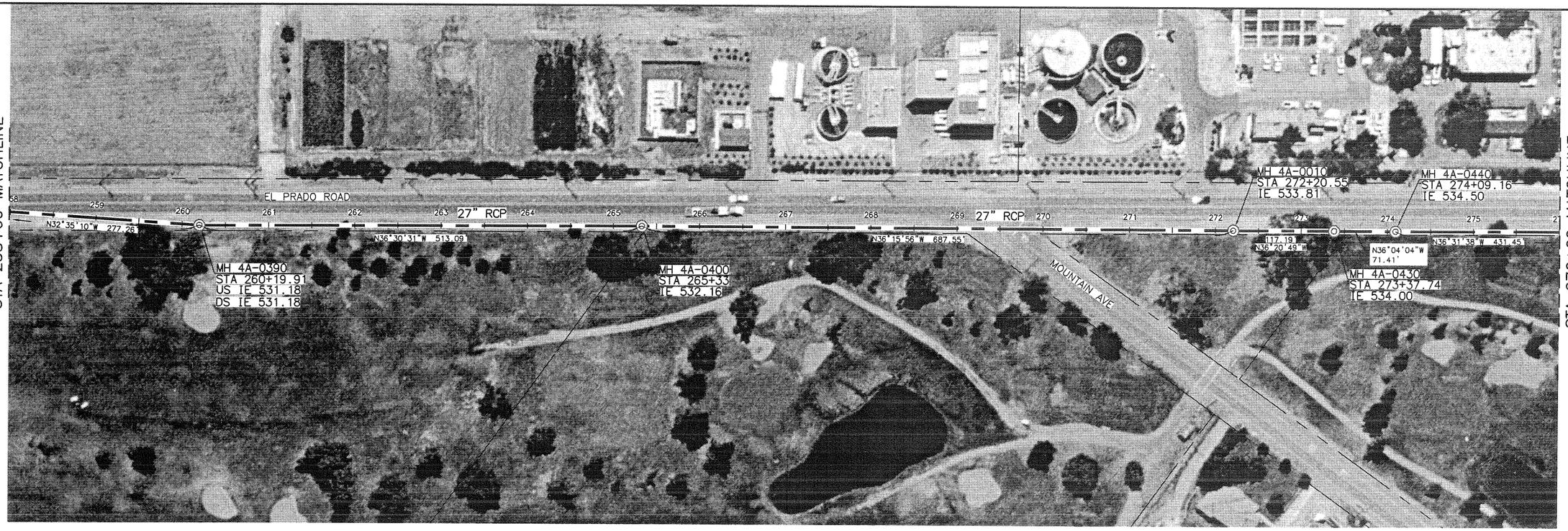
REPAIRS TO UNLINED RCP, REACHES IV-A AND IV-B

REACH IV-A UPPER
STATION 244+00 TO STATION 258+00

DRAWING NO.
SHEET:
OF SHEETS
FILE NO.



PLAN: REACH IV-A UPPER

SCALE 1"=60'

SCALE: 1"=60'

60 0 60 120 180

SCALE: 1"=60'

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

PROJECT ENGINEER	RCE NO.	EXP. DATE
	38217	3/31/2011

REGISTERED PROFESSIONAL ENGINEER
JOHN H. RAMIREZ
No. 38217
Exp. 3/31/09
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	APP
		RECORD DRAWINGS	

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE:

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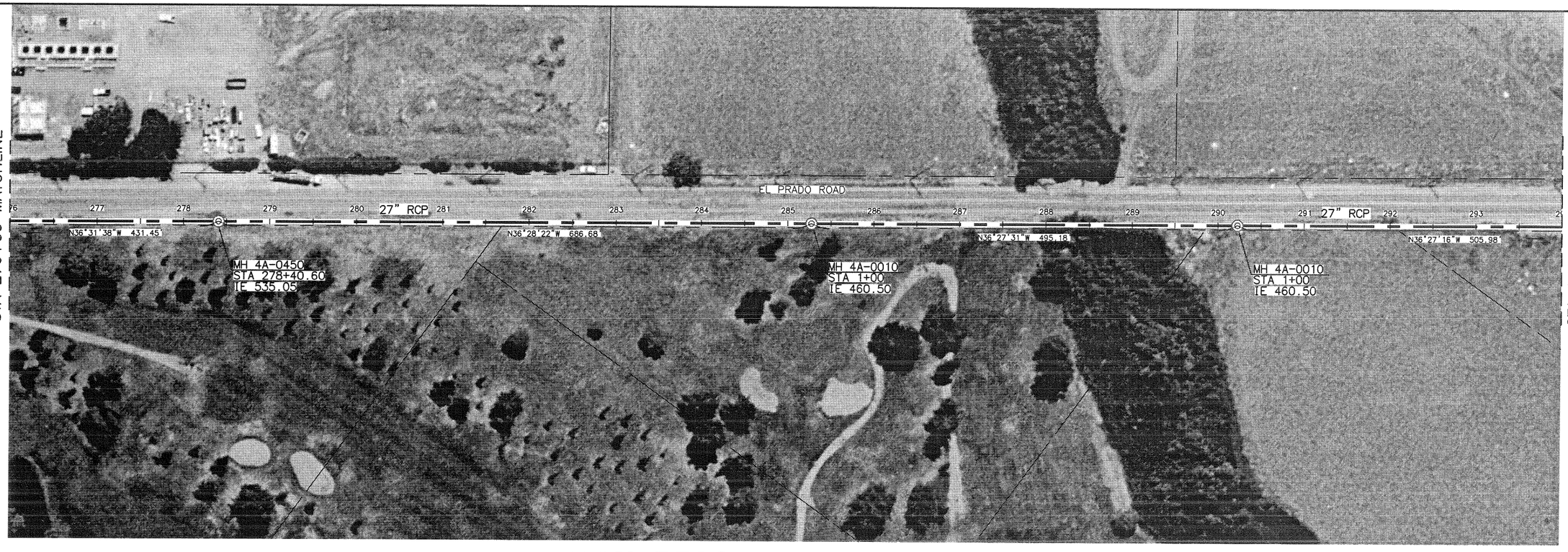
REPAIRS TO UNLINED RCP, REACHES IV-A AND IV-B

REACH IV-A UPPER
STATION 258+00 TO STATION 276+00

DRAWING NO.
SHEET:
OF SHEETS
FILE NO.

SEE SHEET ?
STA 276+00 MATCHLINE



STA 294+00 MATCHLINE
SEE SHEET ?

PLAN: REACH IV-A UPPER

SCALE 1"=60'

SCALE: 1"=60'

60 0 60 120 180

SCALE: 1"=60'

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

38217 3/31/2011
PROJECT ENGINEER RCE NO. EXP. DATE

REGISTERED PROFESSIONAL ENGINEER
STEVE H. MAGDY
No. 38217
Exp. 3/31/11
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	APP
		RECORD DRAWINGS	

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE:

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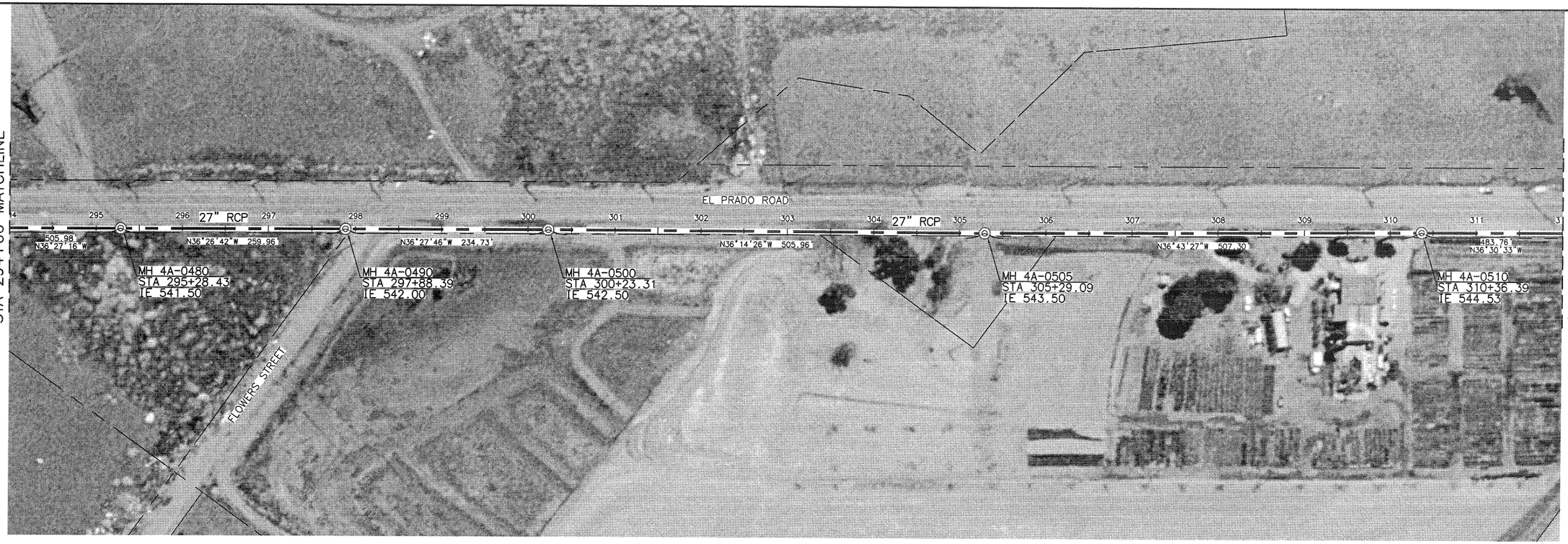
REPAIRS TO UNLINED RCP, REACHES IV-A AND IV-B

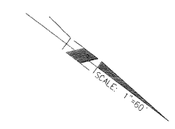
REACH IV-A UPPER
STATION 276+00 TO STATION 294+00

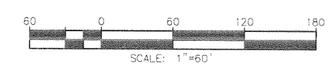
DRAWING NO.
SHEET:
OF SHEETS
FILE NO.



PLAN: REACH IV-A UPPER

SCALE 1"=60'





WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

PROJECT ENGINEER	RCE NO.	EXP. DATE
	38217	3/31/2011

REGISTERED PROFESSIONAL ENGINEER
JOHN H. HARRIS
No. 38217
Exp. 3/31/09
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	APP
		RECORD DRAWINGS	

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE:

RBF CONSULTING
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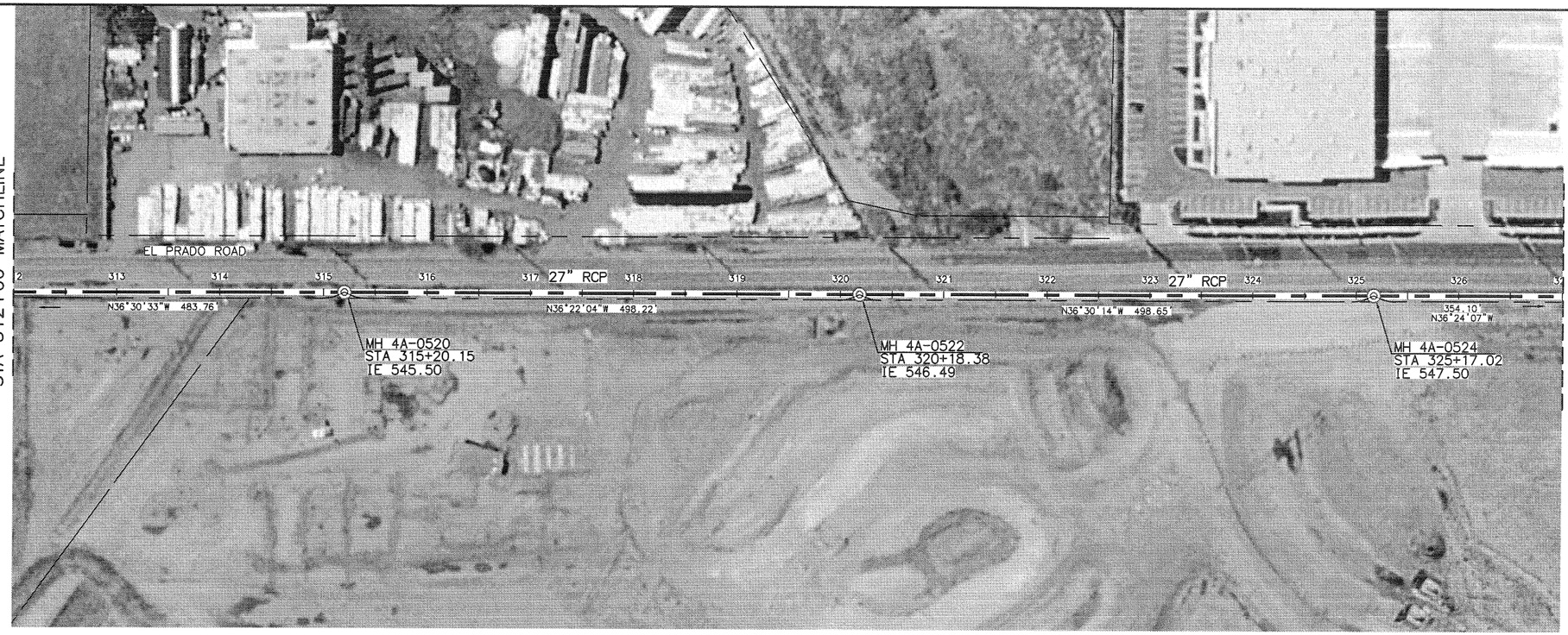
REPAIRS TO UNLINED RCP, REACHES IV-A AND IV-B

REACH IV-A UPPER
STATION 294+00 TO STATION 312+00

DRAWING NO.
SHEET:
OF SHEETS
FILE NO.

SEE SHEET ?
STA 312+00 MATCHLINE



STA 327+00 MATCHLINE
SEE SHEET ?

PLAN: REACH IV-A UPPER

SCALE 1"=60'

SCALE 1"=60'

60 0 60 120 180
SCALE: 1"=60'

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

38217 3/31/2011
PROJECT ENGINEER RCE NO. EXP. DATE

REGISTERED PROFESSIONAL ENGINEER JOHN R. HADDEN No. 38217 Exp. 3/31/20 CIVIL STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	APP
		RECORD DRAWINGS	

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE:

RBF CONSULTING
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858.614.5000 • FAX 858.614.5001

SANTA ANA WATERSHED PROJECT AUTHORITY
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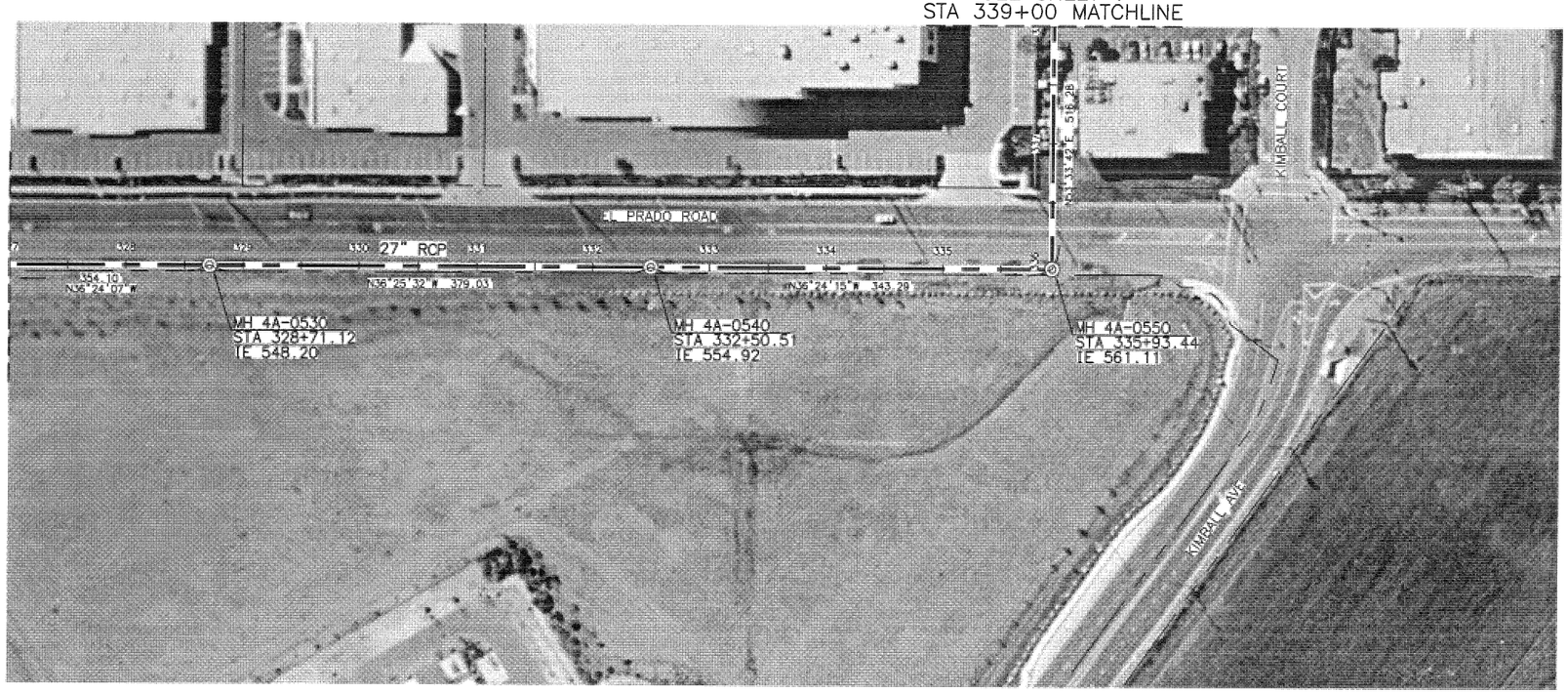
REPAIRS TO UNLINED RCP, REACHES IV-A AND IV-B

REACH IV-A UPPER
STATION 312+00 TO STATION 327+00

DRAWING NO.
SHEET:
OF SHEETS
FILE NO.

SEE SHEET ?
STA 339+00 MATCHLINE

SEE SHEET ?
327+00.00 MATCHLINE



PLAN: REACH IV-A UPPER

SCALE 1"=60'

SCALE: 1"=60'

60 0 60 120 180

SCALE: 1"=60'

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

38217 3/31/2011
PROJECT ENGINEER RCE NO. EXP. DATE

REGISTERED PROFESSIONAL ENGINEER JOHN N. ROSSER No. 38217 Exp. 3/31/11 CIVIL STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	APP
		RECORD DRAWINGS	

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE:

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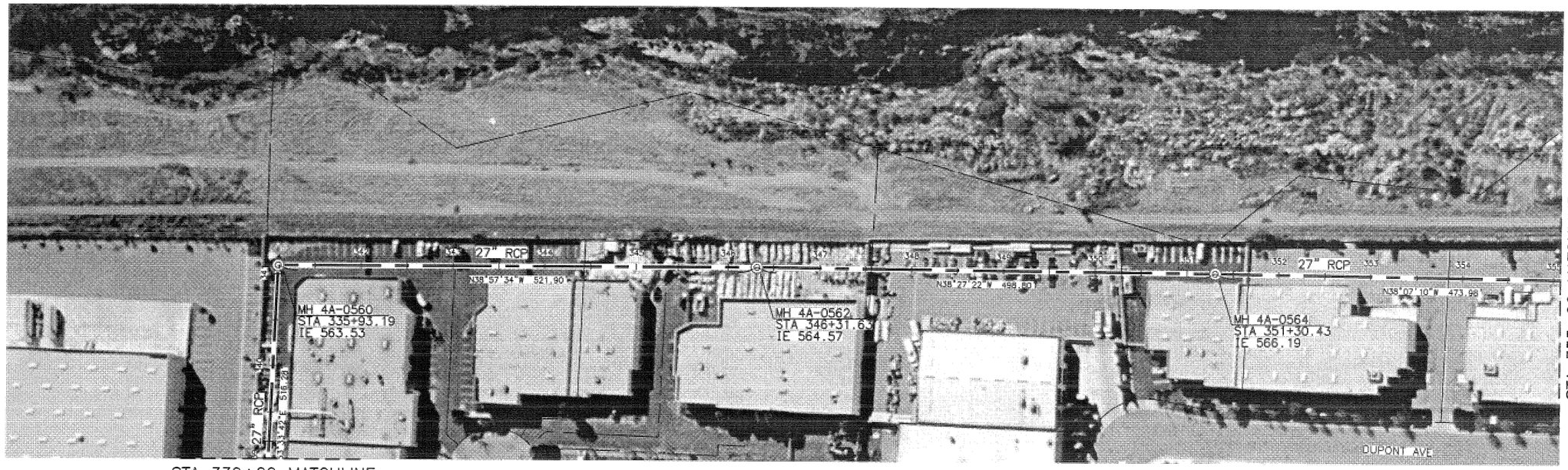
REPAIRS TO UNLINED RCP, REACHES IV-A AND IV-B

REACH IV-A UPPER
STATION 327+00 TO STATION 339+00

DRAWING NO.
SHEET:
OF SHEETS
FILE NO.

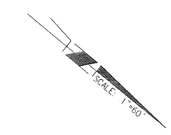


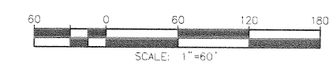
STA 339+00 MATCHLINE
SEE SHEET ?

STA 355+00 MATCHLINE
SEE SHEET ?

PLAN: REACH IV-A UPPER

SCALE 1"=60'





WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

PROJECT ENGINEER	RCE NO.	EXP. DATE
	38217	3/31/2011

REGISTERED PROFESSIONAL ENGINEER
JOHN H. HARRIS
No. 38217
Exp. 3/31/09
CIVIL
STATE OF CALIFORNIA

REV.	DATE	DESCRIPTION	APP
		RECORD DRAWINGS	

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE:

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858.614.5000 • FAX 858.614.5001

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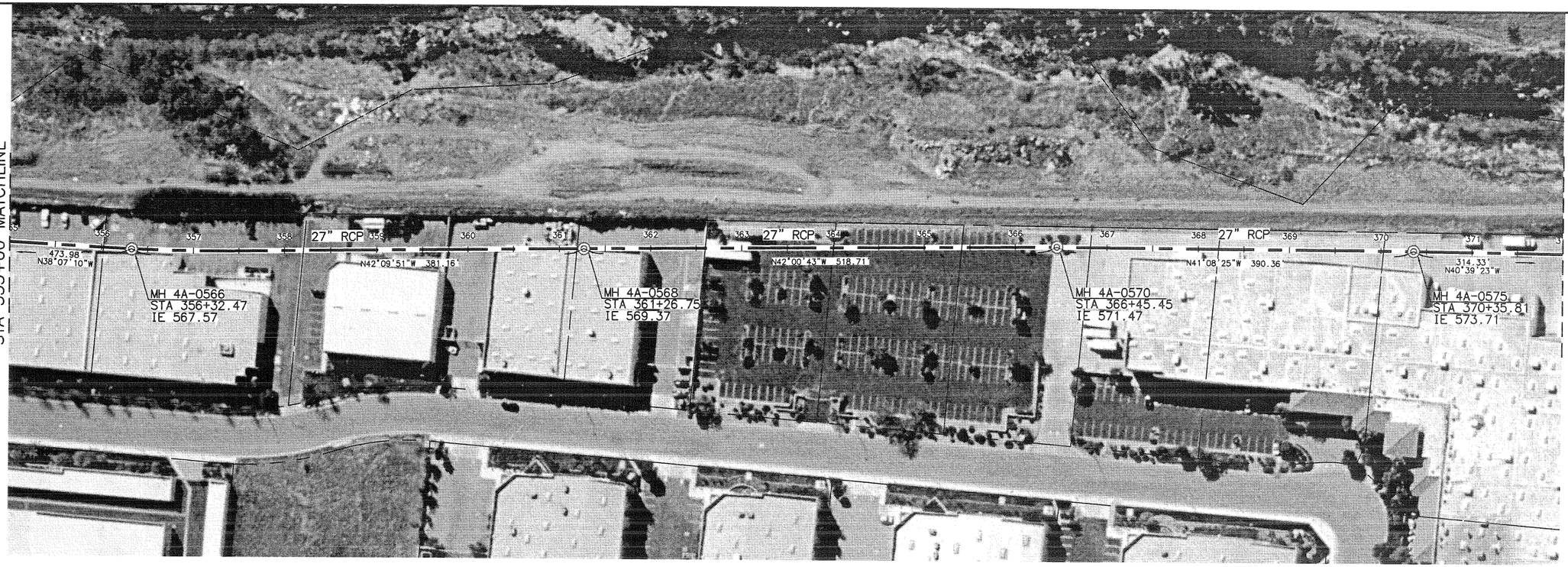
(951) 354-4220 • www.sawpa.org

REPAIRS TO UNLINED RCP, REACHES IV-A AND IV-B
REACH IV-A UPPER
STATION 339+00 TO STATION 355+00

DRAWING NO.
SHEET:
OF SHEETS
FILE NO.

SEE SHEET ?
STA 355+00 MATCHLINE



STA 372+00 MATCHLINE
SEE SHEET ?

PLAN: REACH IV-A UPPER

SCALE 1"=60'

SCALE: 1"=60'

60 0 60 120 180
SCALE: 1"=60'

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

PROJECT ENGINEER	RCE NO.	EXP. DATE
	38217	3/31/2011

REGISTERED PROFESSIONAL ENGINEER
JOHN H. HARRIS
No. 38217
Exp. 3/31/09
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	APP
		RECORD DRAWINGS	

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE:

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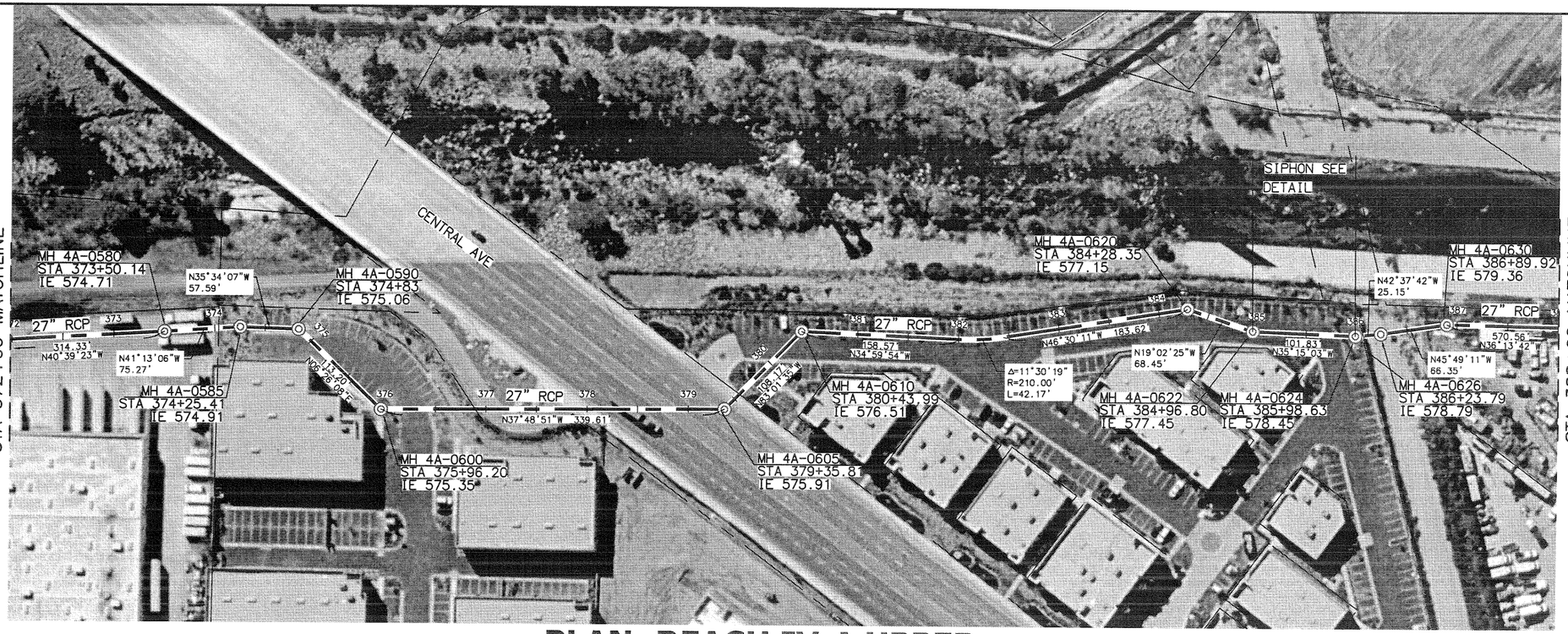
REPAIRS TO UNLINED RCP, REACHES IV-A AND IV-B

REACH IV-A UPPER
STATION 355+00 TO STATION 372+00

DRAWING NO.
SHEET:
OF SHEETS
FILE NO.



PLAN: REACH IV-A UPPER

SCALE 1"=60'

SCALE: 1"=60'

60 0 60 120 180

SCALE: 1"=60'

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

38217 3/31/2011
PROJECT ENGINEER RCE NO. EXP. DATE

REGISTERED PROFESSIONAL ENGINEER JOHN H. HUDSON No. 38217 Exp. 3/31/11 CIVIL STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	APP
1		RECORD DRAWINGS	

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE:

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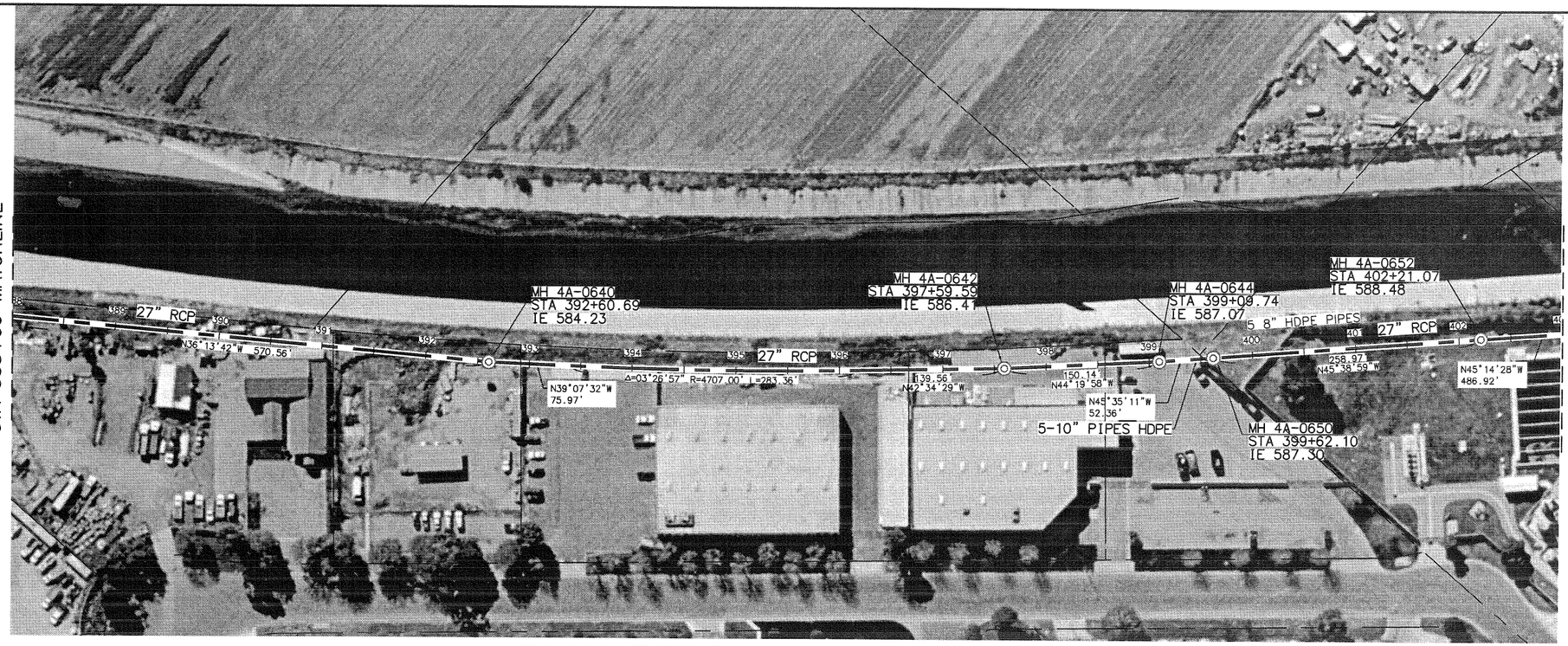
REPAIRS TO UNLINED RCP, REACHES IV-A AND IV-B

REACH IV-A UPPER
STATION 372+00 TO STATION 388+00

DRAWING NO.
SHEET: OF SHEETS
FILE NO.



PLAN: REACH IV-A UPPER

SCALE 1"=60'

SCALE: 1"=60'

60 0 60 120 180

SCALE: 1"=60'

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

PROJECT ENGINEER	RCE NO.	EXP. DATE
	38217	3/31/2011

REGISTERED PROFESSIONAL ENGINEER
JOHN H. HARRIS
No. 38217
Exp. 3/31/09
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	APP
		RECORD DRAWINGS	

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE:

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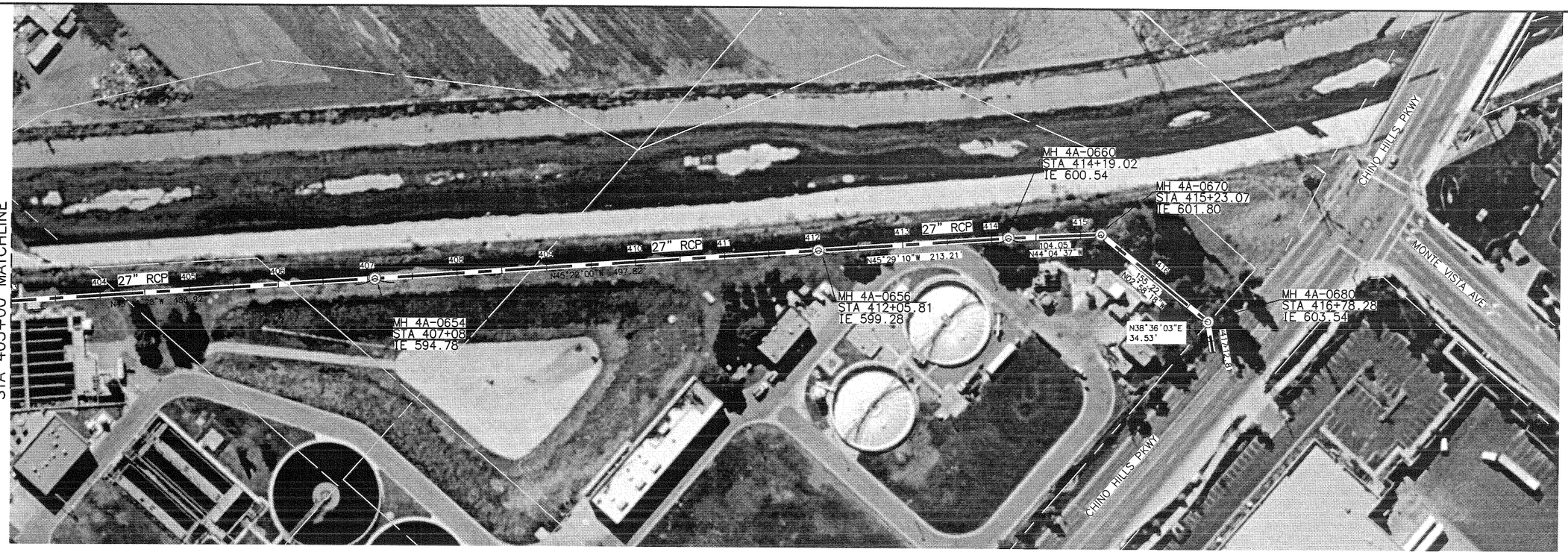
REPAIRS TO UNLINED RCP, REACHES IV-A AND IV-B

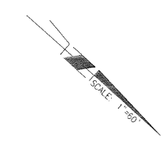
REACH IV-A UPPER
STATION 388+00 TO STATION 403+00

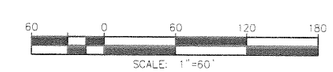
DRAWING NO.
SHEET:
OF SHEETS
FILE NO.



PLAN: REACH IV-A UPPER

SCALE 1"=60'





WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

PROJECT ENGINEER	RCE NO.	EXP. DATE
	38217	3/31/2011

REGISTERED PROFESSIONAL ENGINEER
JOHN H. HARDER
No. 38217
Exp. 3/31/09
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	APP
		RECORD DRAWINGS	

DESIGN BY:
DRAWN BY:
CHECKED BY:
DATE:

RBF CONSULTING
PLANNING ■ DESIGN ■ CONSTRUCTION
9755 CLAIREMONT MESA BLVD., SUITE 100
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11615 STERLING AVENUE • RIVERSIDE, CA 92503
(951) 354-4220 • www.sawpa.org

REPAIRS TO UNLINED RCP, REACHES IV-A AND IV-B
REACH IV-A UPPER
STATION 403+00 TO STATION 417+12.81 END REACH A UPPER

DRAWING NO.
SHEET:
OF SHEETS
FILE NO.