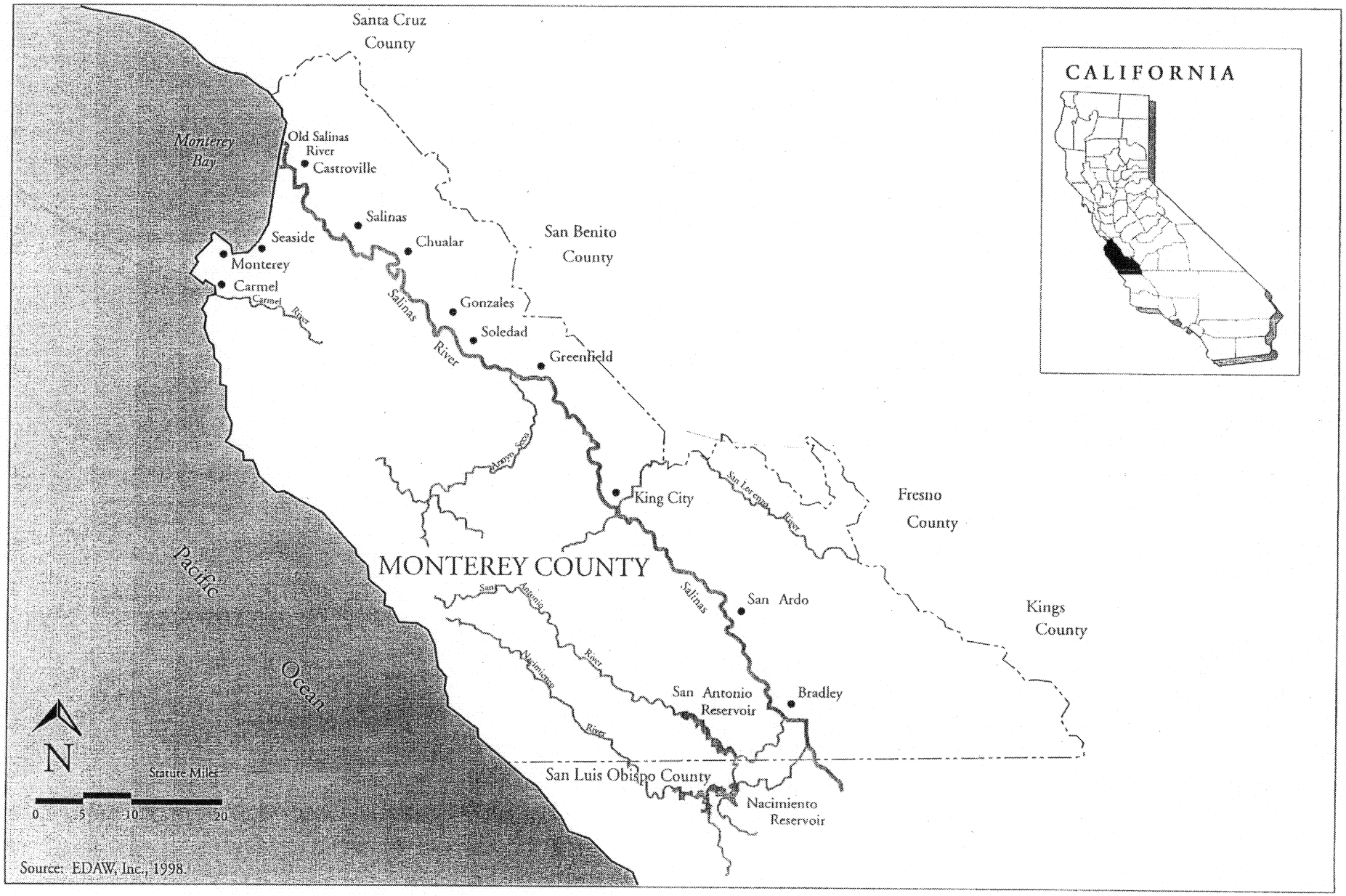
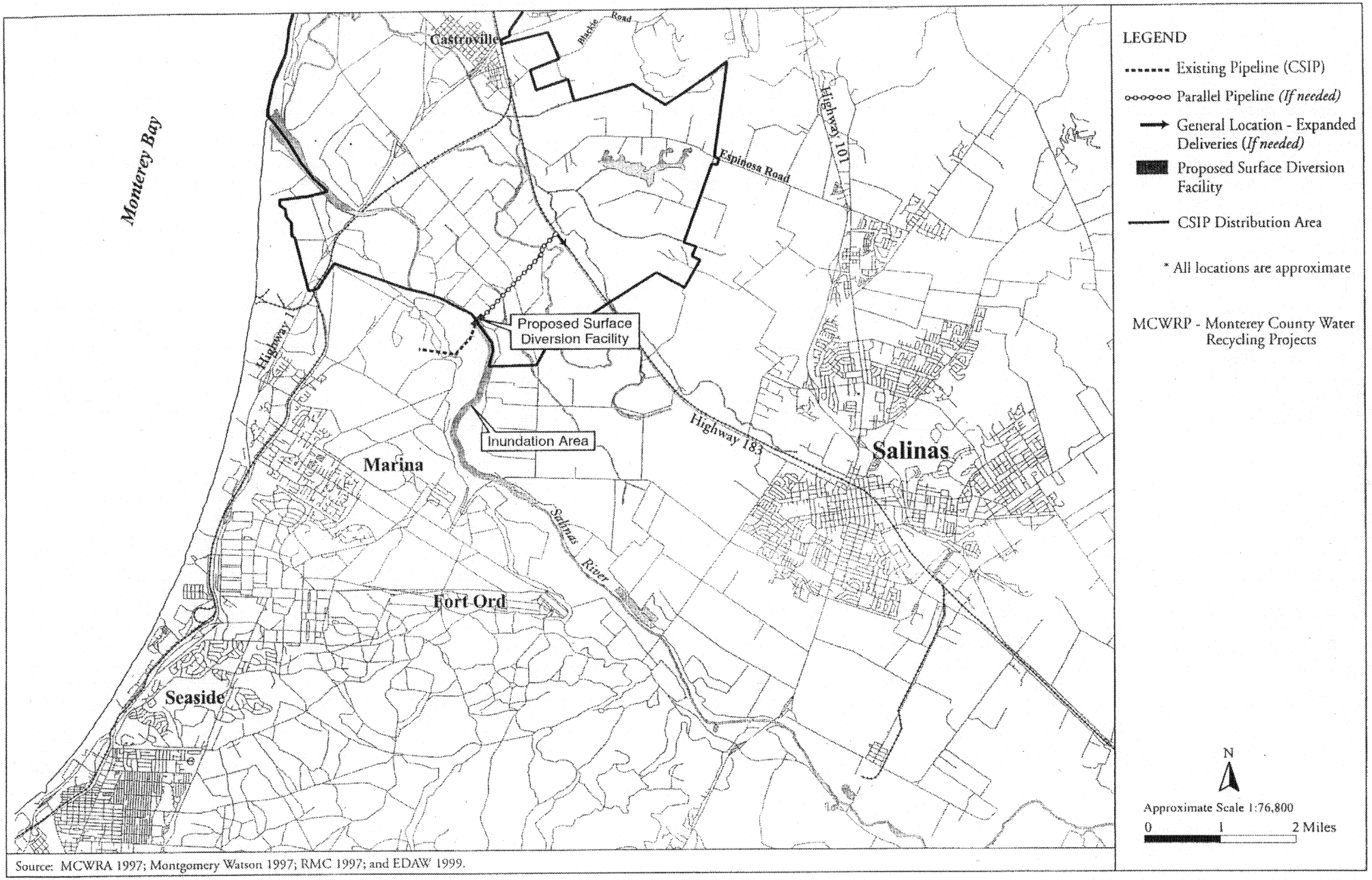


Regional Location

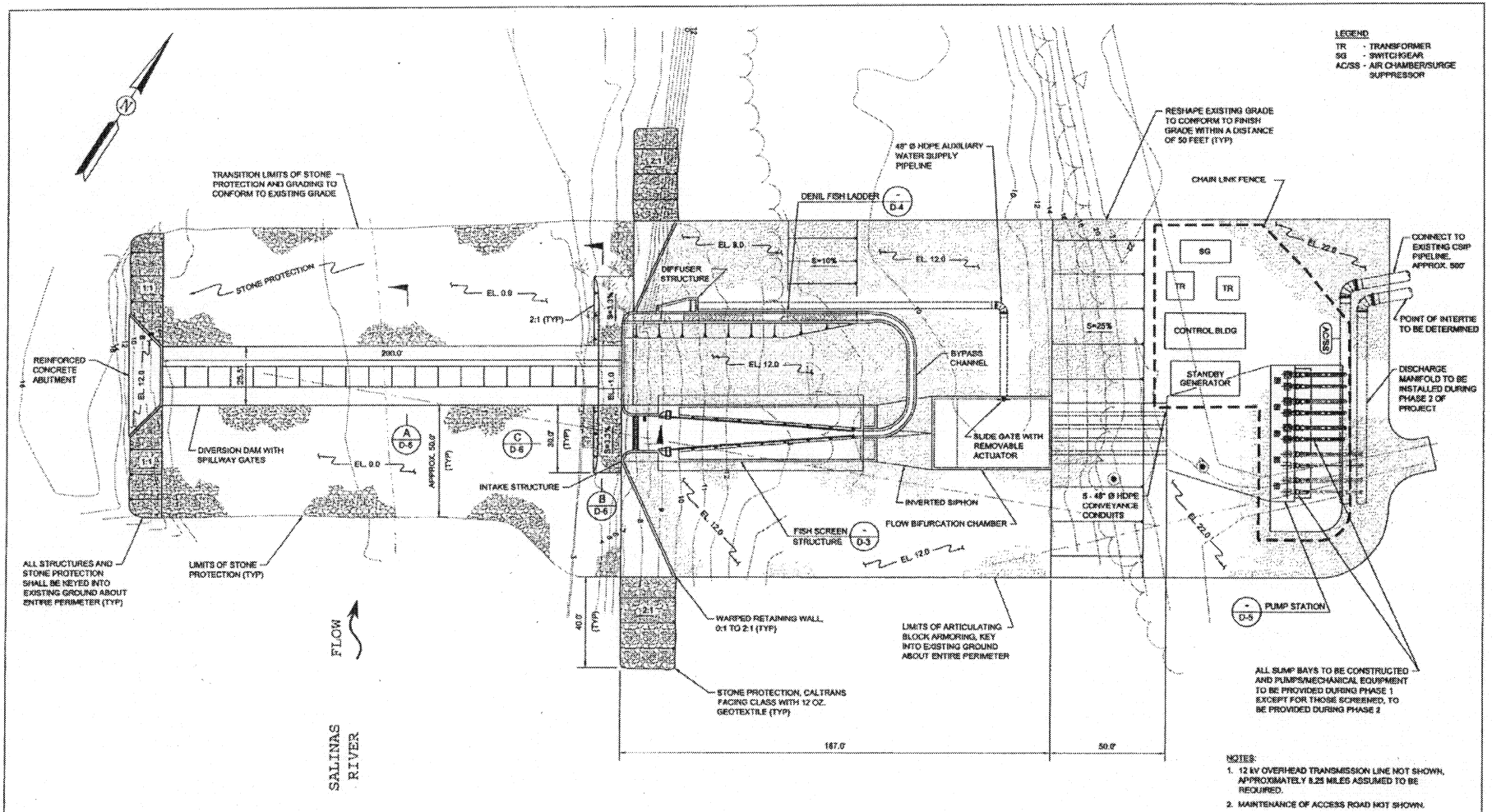
SALINAS VALLEY WATER PROJECT
IN: SALINAS RIVER
COUNTY OF: MONTEREY STATE: CA
APPLICATION BY: MCWRA
SHEET 1 OF 86 DATE 1/2001



Source: MCWRA 1997; Montgomery Watson 1997; RMC 1997; and EDAW 1999.

Proposed Action Facilities

SALINAS VALLEY WATER PROJECT
IN: SALINAS RIVER
COUNTY OF: MONTEREY STATE: CA
APPLICATION BY: MCWRA
SHEET 2 OF ~~6~~ 6 DATE 1/2001



NOTES:
1. 12 kV OVERHEAD TRANSMISSION LINE NOT SHOWN, APPROXIMATELY 8.25 MILES ASSUMED TO BE REQUIRED.
2. MAINTENANCE OF ACCESS ROAD NOT SHOWN.

PRELIMINARY
HALF-SIZE PRINT

REV	DATE	BY	CHK	APPR	DESCRIPTION
3	9/28/02	TWB	FEB	FEB	INCORPORATE MCWRA COMMENTS
2	1/25/02	TWB	FEB	FEB	PROJECT DESCRIPTION
1	1/4/02	TWB	FEB	FEB	PRELIMINARY DESIGN DRAWINGS

DESIGNED BY: T. BULLER
DRAWN BY: T. BULLER
CHECKED BY: F. BORCALLI
IN CHARGE: F. BORCALLI
DATE: 1/25/02

BORCALLI ASSOCIATES INC.
1418W NORTH MARKET BLVD, SUITE 500A
SACRAMENTO, CALIFORNIA 95834
TEL (916) 928-4740
FAX (916) 928-4744

SUBMITTED

APPROVED

MONTEREY COUNTY WATER RESOURCES AGENCY
SALINAS VALLEY WATER PROJECT

PROPOSED DIVERSION FACILITY
SITE PLAN

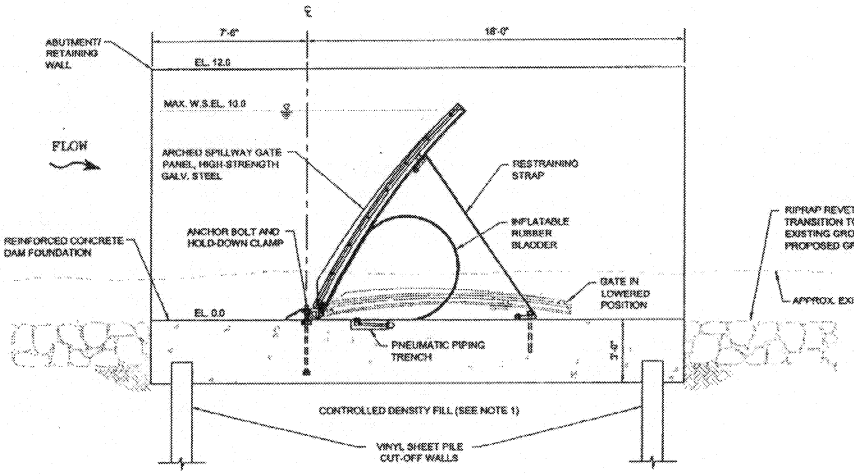
SCALE OF ORIGINAL: 1" = 20'

DRAWING NO: D-1

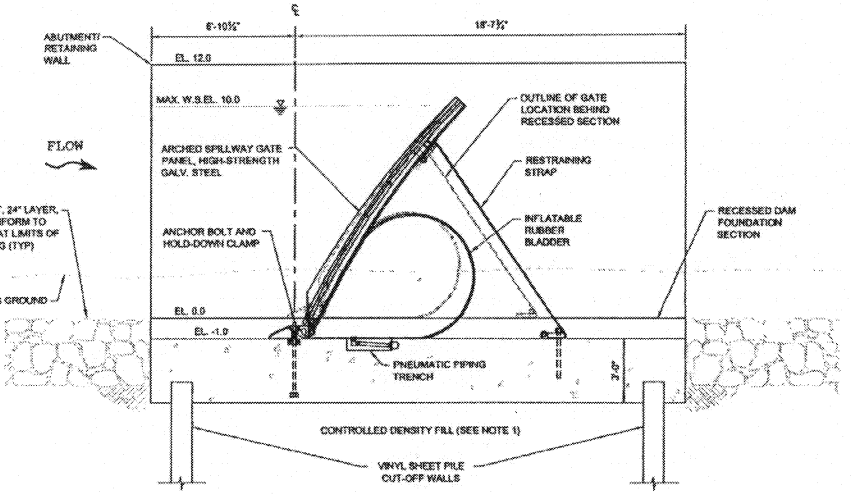
SHEET

PLAN & SECTIONS
(ALTERNATIVE A)

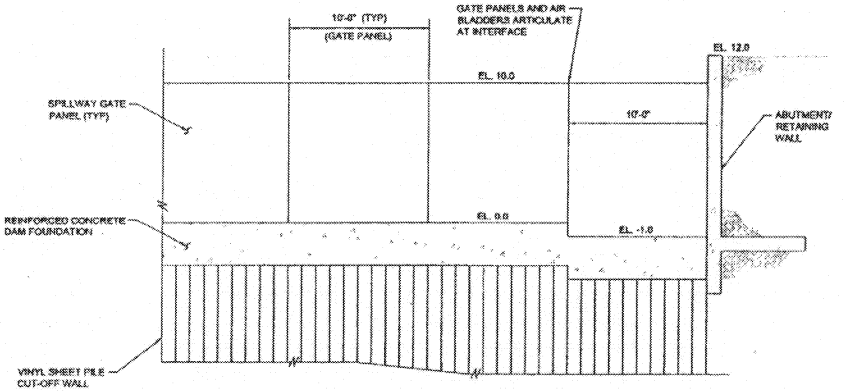
Salinas Valley Water Project
In: Salinas River
County of: Monterey State: CA
Application by: MCWRA
Sheet 3 of 6 Date: 7/26/01



SECTION A
SCALE: 3/8"=1'-0" D-1



SECTION B
SCALE: 3/8"=1'-0" D-1



SECTION C
SCALE: 1/4"=1'-0" D-1

NOTES:

1. SHEET PILE DEPTHS AND PROPOSED FOUNDATION TREATMENTS BASED UPON AVAILABLE BORING DATA. ACTUAL SITE CONDITIONS SHALL BE FIELD-VERIFIED THROUGH SUBSURFACE INVESTIGATION PRIOR TO FINALIZING DESIGN.
2. SPILLWAY GATE, FOUNDATION, AND ANCHORAGE DESIGN SHALL BE CONFIRMED BY MANUFACTURER.
3. PNEUMATIC PIPING SHALL BE TERMINATED AT COMPRESSED AIR SYSTEM CONTROL PANEL LOCATED WITHIN CONTROL BUILDING.

PRELIMINARY

HALF-SIZE PRINT

REV	DATE	BY	CHK	APP'R	DESCRIPTION
2	1/25/02	TWB	FEB	FEB	PROJECT DESCRIPTION
1	1/4/02	TWB	FEB	FEB	PRELIMINARY DESIGN DRAWINGS

REV	DATE	BY	CHK	APP'R	DESCRIPTION

DESIGNED BY: T. BULLER
DRAWN BY: T. BULLER
CHECKED BY: F. BORCALLI
IN CHARGE: F. BORCALLI
DATE: 1/25/02

SUBMITTED

APPROVED

BORCALLI & ASSOCIATES INC.
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FAX (916) 928-4744

MONTEREY COUNTY WATER RESOURCES AGENCY
SALINAS VALLEY WATER PROJECT

PROPOSED DIVERSION FACILITY
DIVERSION DAM STRUCTURE
SECTIONS

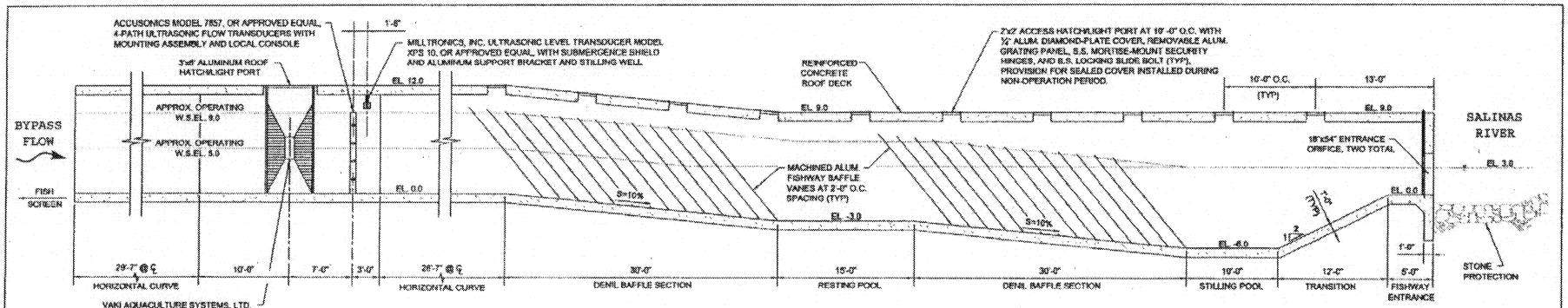
SCALE OF ORIGINAL: AS SHOWN

DRAWING NO: D-6

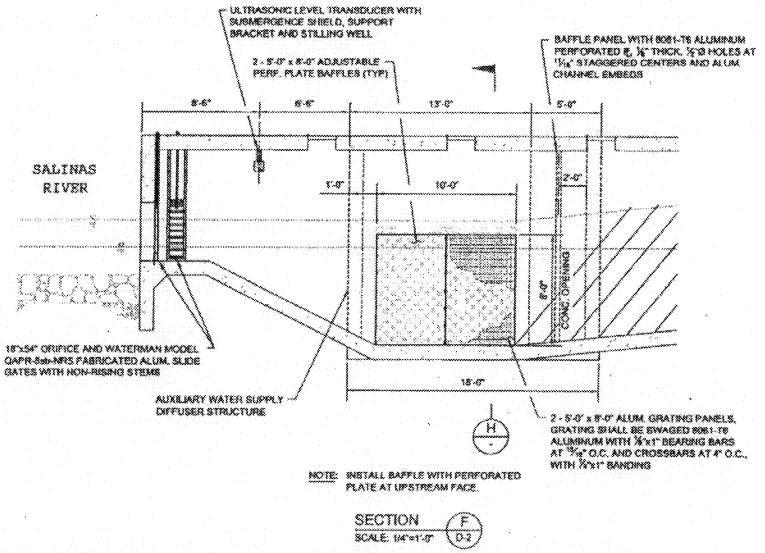
SHEET

PLAN & SECTIONS
(ALTERNATIVE A)

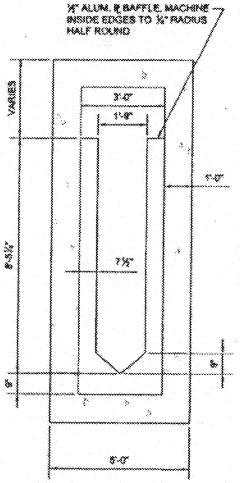
Salinas Valley Water Project
In: Salinas River
County of: Monterey State: CA
Application by: MCWRA
Sheet 4 of 6 Date: 7/26/01



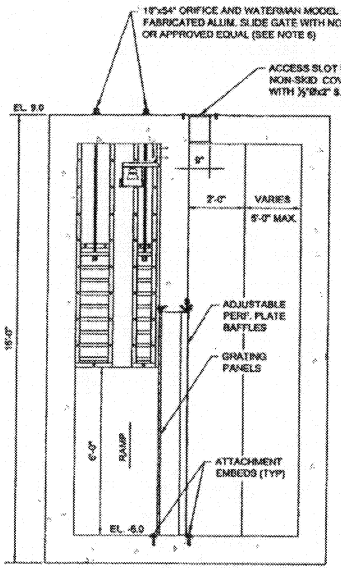
SECTION E (D-2)
SCALE: 3/16"=1'-0"



SECTION F (D-2)
SCALE: 1/4"=1'-0"



SECTION G (D-2)
SCALE: 1/2"=1'-0"



SECTION H (-)
SCALE: 1/2"=1'-0"

NOTES:

1. FISH LADDER CAPACITY IS CALCULATED ACCORDING TO THE FOLLOWING EQUATION:

$$Q_{max\ capacity} = 5.67 \cdot b^{1} \cdot \sqrt{d^{3} \cdot S}$$

WHERE:
b = FLUME WIDTH (ft)
d = DEPTH FROM FLOOR (ft)
S = SLOPE

2. THE AUXILIARY PIPELINE WILL SUPPLEMENT FISH LADDER FLOW AND MAINTAIN THE SEASONALLY DEPENDENT BYPASS REQUIREMENT (15 cfs TO 45 cfs), REGARDLESS OF FLUCTUATING IMPOUNDMENT STAGE (WSEL 5.0 TO WSEL 9.0).
3. DIFFUSER CONFIGURED TO INTRODUCE SUPPLEMENTAL FLOW AT A NOT-TO-EXCEED VELOCITY OF 1.0 fps.
4. ALL ALUMINUM METALWORK SHALL CONFORM TO AWS D1.2 AND ASTM B209/B308 AND SHALL BE OF TYPE 5061-T6. ALL FASTENERS SHALL BE TYPE 304 STAINLESS STEEL.
5. ALL MONITORING EQUIPMENT SHALL OPERATE VIA 120-VAC, 1Ø POWER WITH SUBMERSIBLE CONDUCTORS AND WATERTIGHT CONNECTORS. CONDUCTORS SHALL BE TERMINATED AT CONTROL/DISPLAY MODULES MOUNTED INSIDE CONTROL BUILDING.
6. SINGLE WATERMAN MODEL GP-8V GAS-POWERED PORTABLE ACTUATOR, OR APPROVED EQUAL, TO BE PROVIDED. TORQUE OUTPUT SHALL BE SUFFICIENT TO OPERATE ENTRANCE SLIDE GATES.

PRELIMINARY

HALF-SIZE PRINT

REV	DATE	BY	CHK	APPR	DESCRIPTION
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2	1/25/02	TWB	FEB	FEB	PROJECT DESCRIPTION
1	1/4/02	TWB	FEB	FEB	PRELIMINARY DESIGN DRAWINGS

DESIGNED BY: T. BULLER
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SUBMITTED

APPROVED

MONTEREY COUNTY WATER RESOURCES AGENCY
SALINAS VALLEY WATER PROJECT

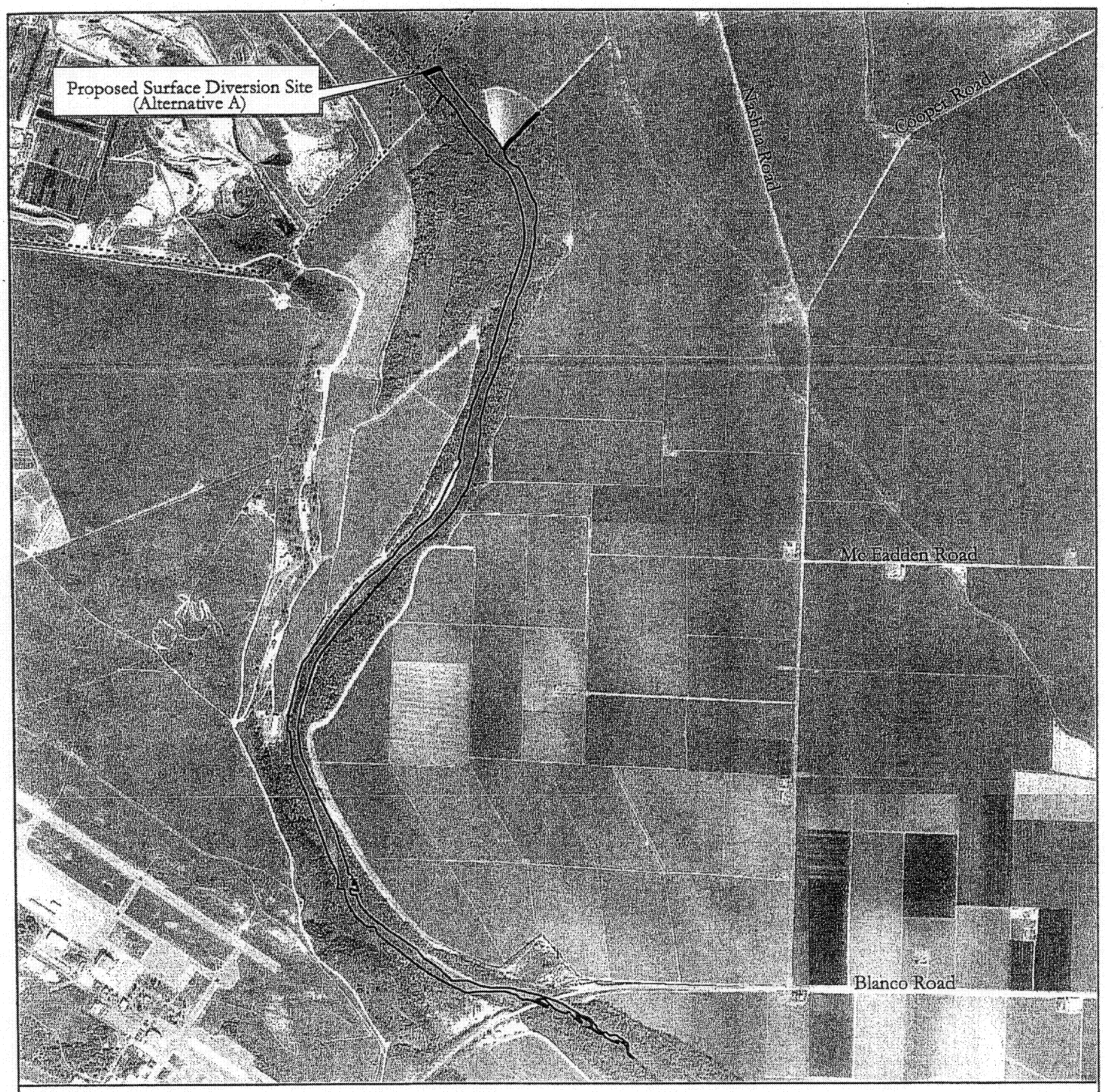
PROPOSED DIVERSION FACILITY
DENIL FISH LADDER
SECTIONS

SCALE OF ORIGINAL: AS SHOWN

DRAWING NO: D-4
SHEET: 4 of 6

PLAN & SECTIONS
(ALTERNATIVE A)

Salinas Valley Water Project
In: Salinas River
County of: Monterey
State: CA
Application by: MCWRA
Sheet 5 of 6
Date: 7/26/01



LEGEND

Impoundment Area

Existing CSIP Pipeline

N

Approximate Scale 1 : 21,000

1000 0 1000 2000 Feet

IMPOUNDMNET AREA
(ALTERNATIVE A)

Salinas Valley Water Project
In: Salinas River
County of: Monterey State: CA
Application by: MCWRA
Sheet 6 of 6 Date: 7/26/01