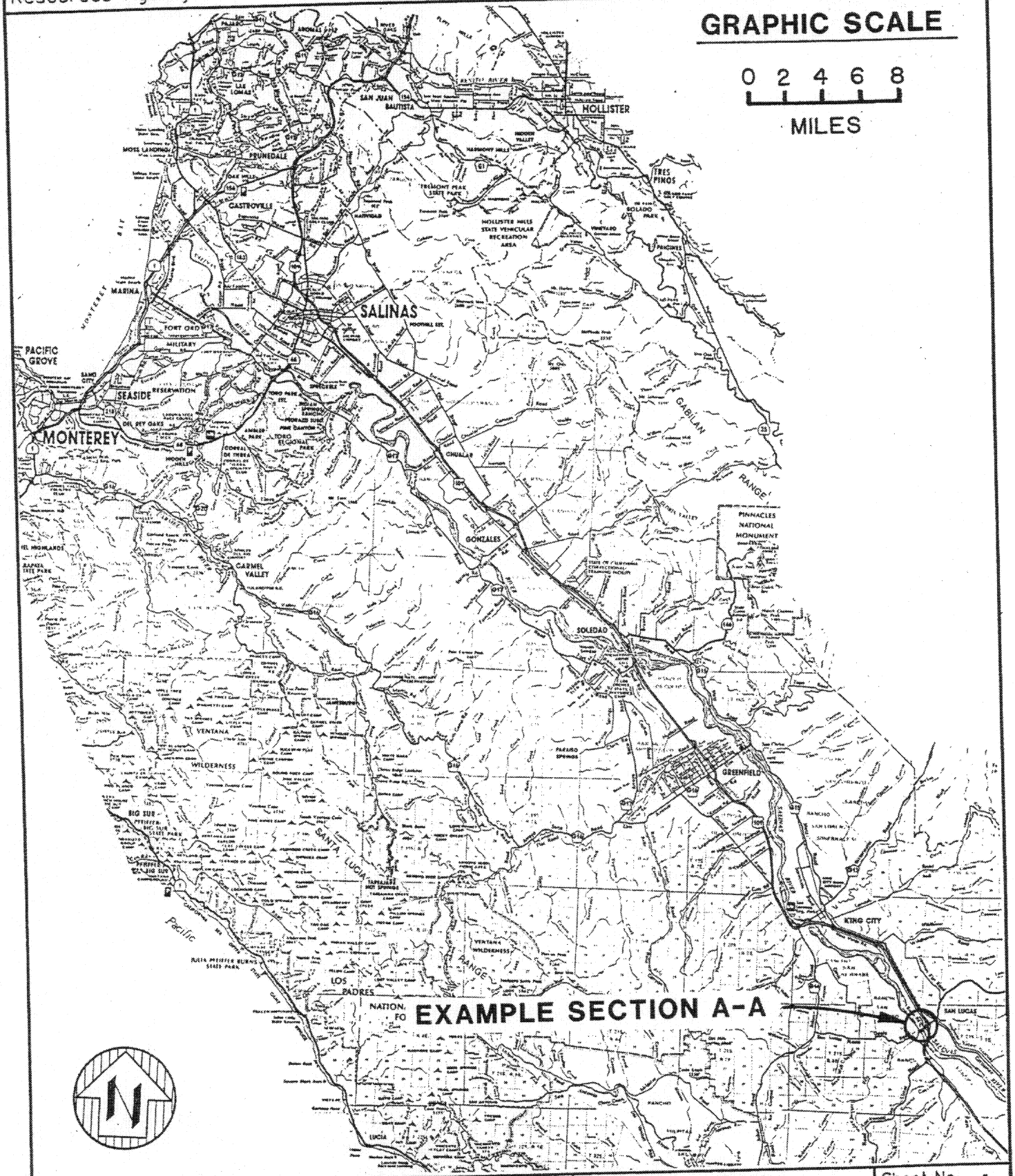
Monterey County Water Resources Agency

1996 SALINAS RIVER 404 REGIONAL PERMIT APPLICATION

893 Blanco Circle - (408) 755-4860
Salinas, CA 93901



Location Map - Example Section A-A

Drawn By: LRM
Checked By: FP
Date: 07-05-96

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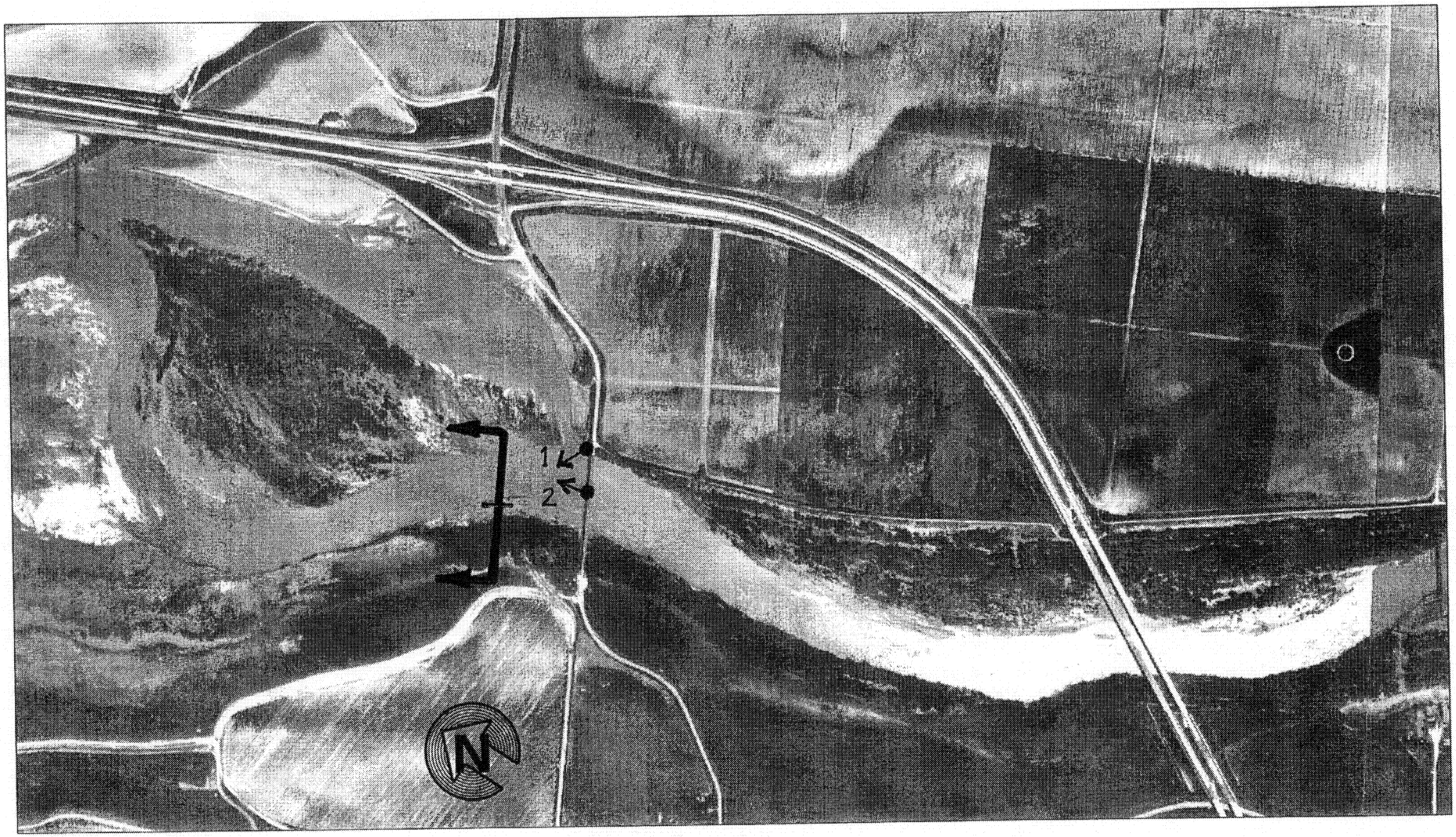

1000' 0' 1000'

SCALE: 1"=1000'

SCALE APROXIMATE:
PICTURE ADJUSTED FROM
NON-RECTIFIED PHOTO

L&P FILE: 276aer-a.dgn

Site Plan Photo
Example Section A-A

Aerial Photo Number:
APS95830-6-34
03-16-95

Drawn By: LRM
Checked By: FP
Date: 07-08-96

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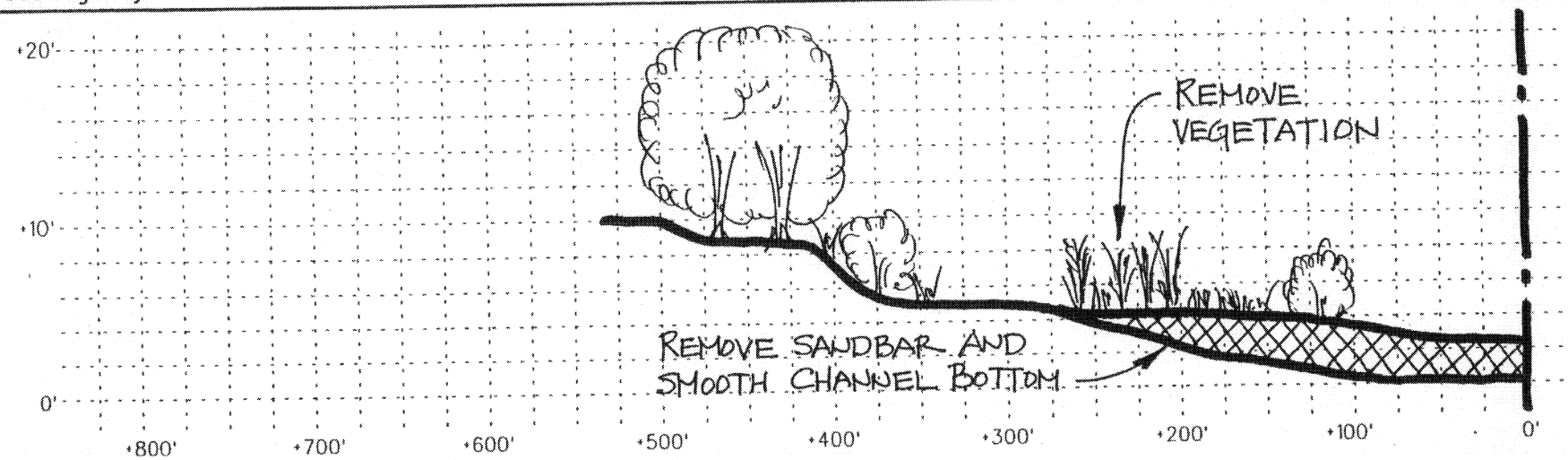
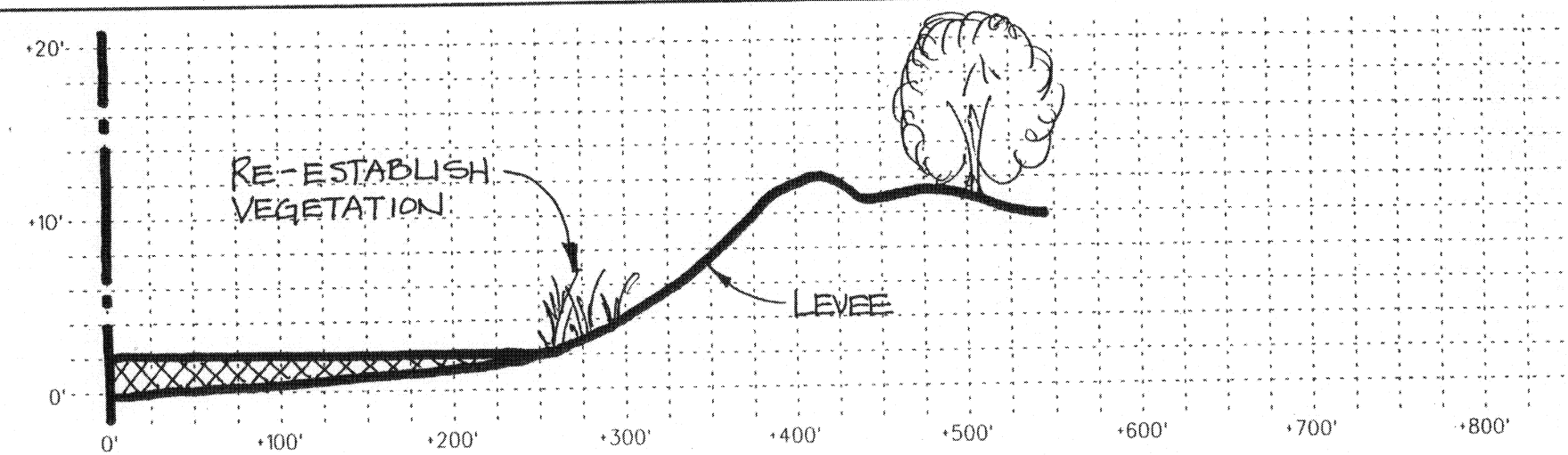


Left Bank

LOOKING DOWNSTREAM

SCALES: HORIZ. - 1"=100'
VERT. - 1"=10'



SCALES: HORIZ. - 1"=100'
VERT. - 1"=10'

LOOKING DOWNSTREAM

Right Bank

L&P FILE: 276examp.dgn

River Section & Elevations

Example Section
A-A

Drawn By:	LRM
Checked By:	FP
Date:	07-05-96

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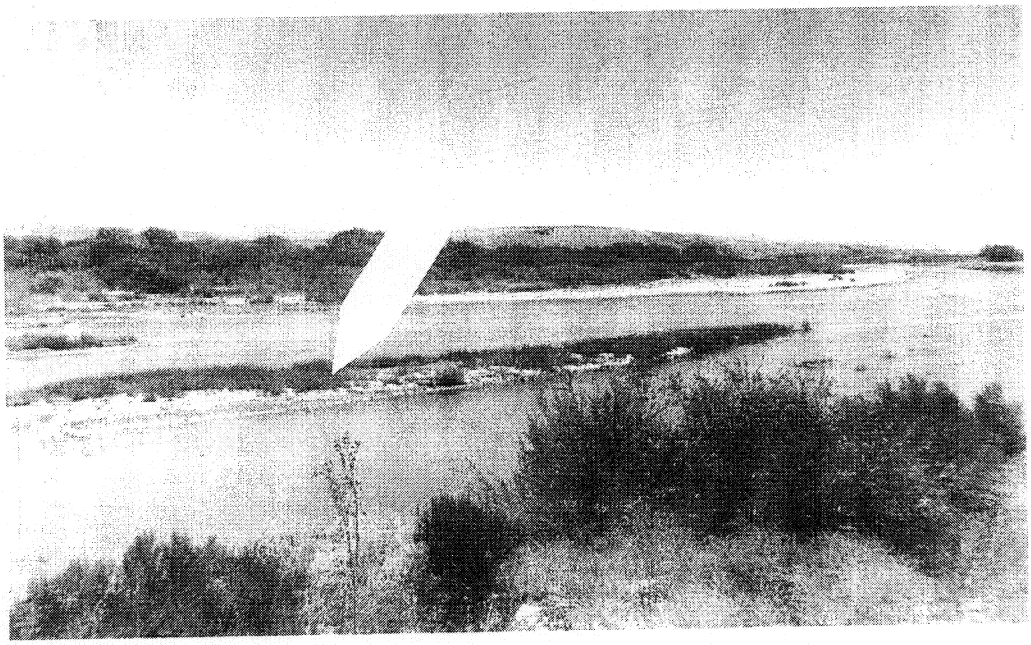

Photo #1

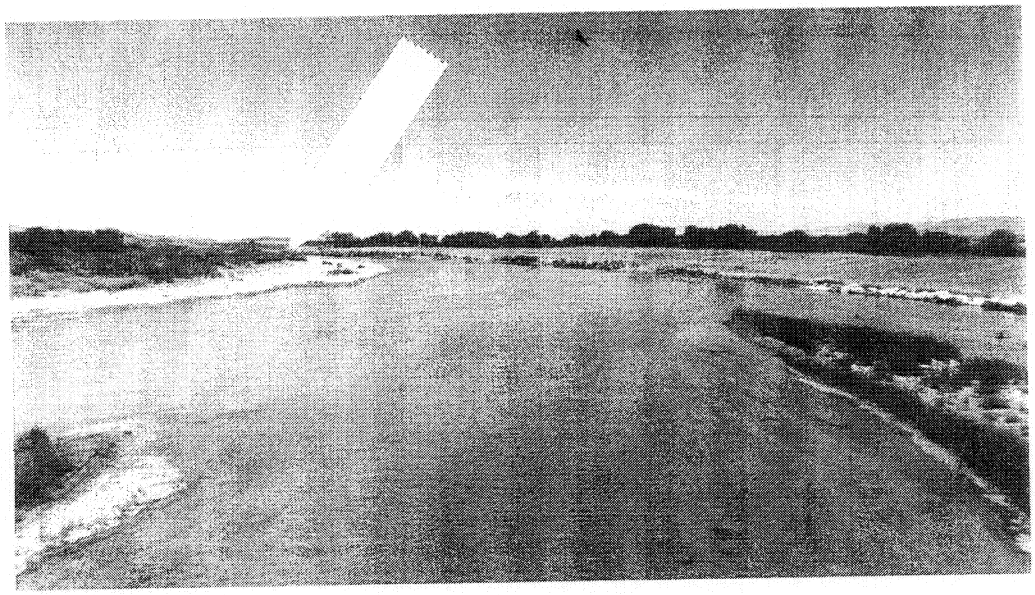

Photo #2

L&P FILE: 276pic-a.dgn

Photo Sheet - Example Section A-A

Drawn By: LRM
Checked By: FP
Date: 07-08-96

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SECTION A-A DESCRIPTION

Photographs of Section A-A on the Salinas River channel are taken just downstream of the Lockwood-San Lucas Road Bridge immediately west of Highway 101 at San Lucas. Photo number 1, taken from the east bridge abutment, identifies a sandbar in mid channel downstream of the bridge that is becoming vegetated. Just to the left is a second smaller sandbar also showing signs of vegetation. Photo number 2 is taken looking down stream. The arrow points to a sandbar deposit and vegetation that is forcing erosion at the toe of the levee on the mid right of the picture. The two sandbars shown in photo number 1 are seen at the lower left and lower right of the picture. Water in the channel is from controlled releases originating at south county reservoirs.

Proposed maintenance work in this area may include removal of the in-channel sandbars. Removal of low vegetation growth on the left bank sandbar and relocation of the sandbar by pushing to the left. Revegetation of the right bank levee toe may also be included in areas that do not have adequate natural growth.

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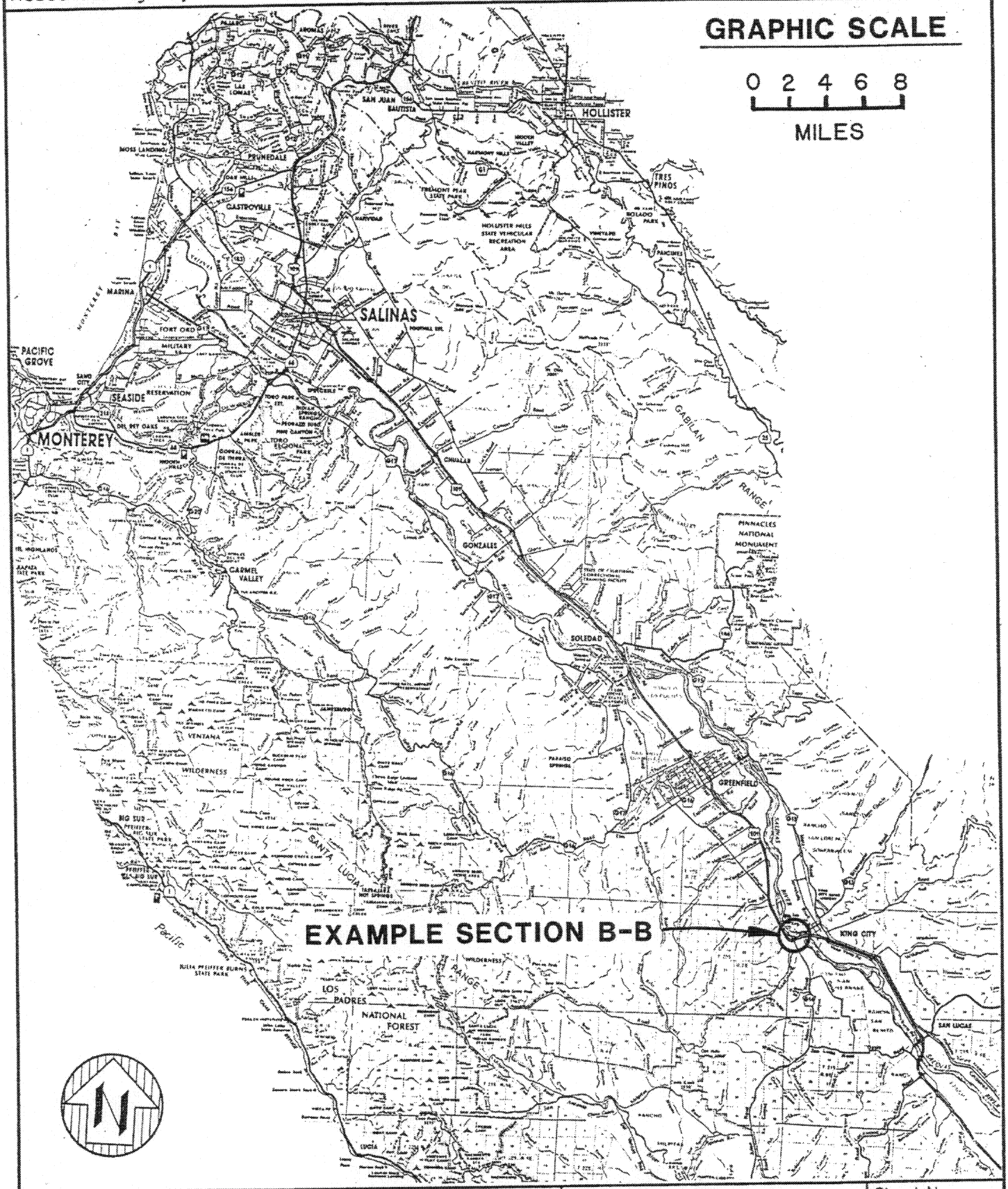

Location Map - Example Section B-B

Drawn By:	LRM
Checked By:	FP
Date:	07-05-96

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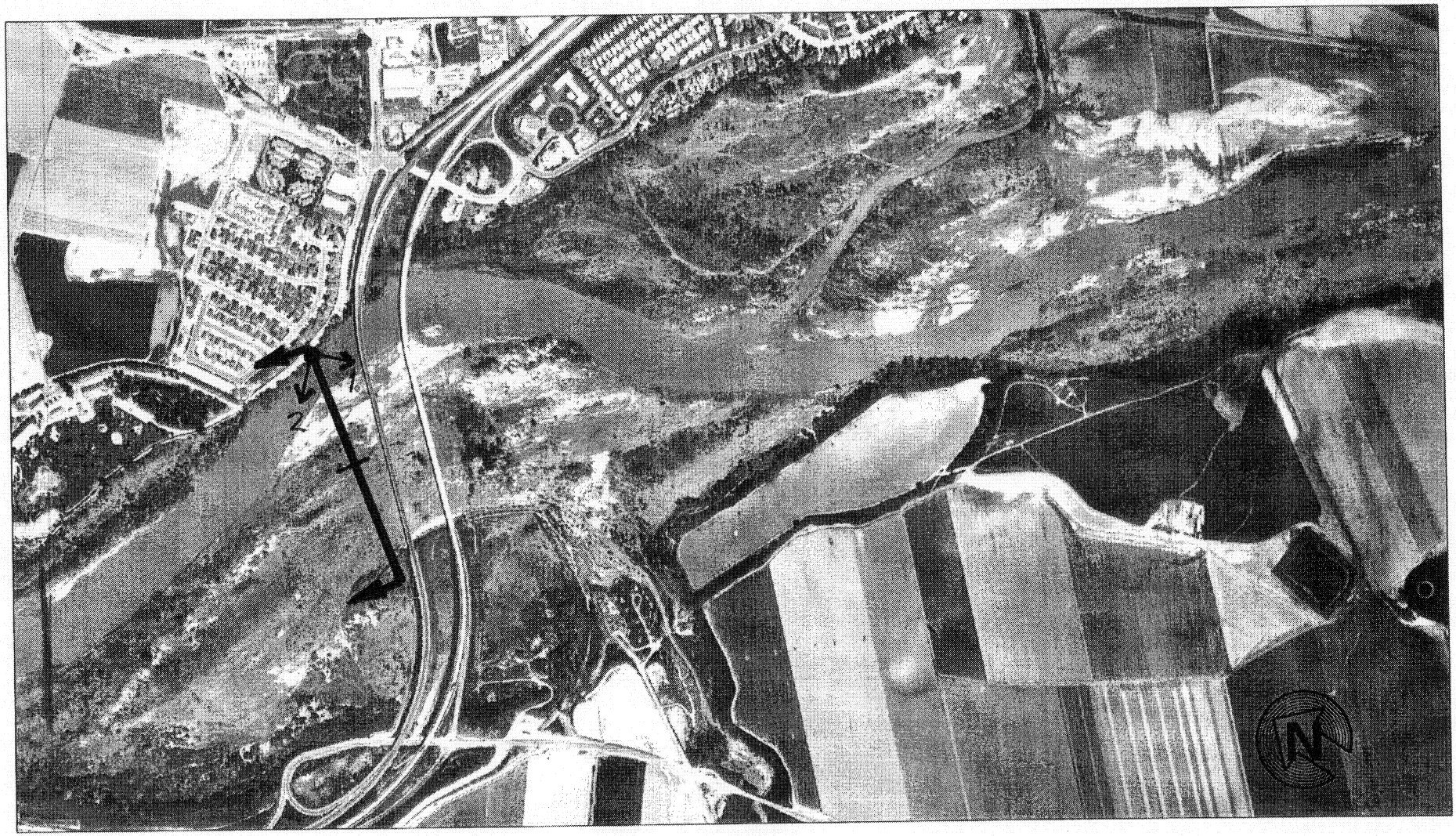

1000' 0' 1000'

SCALE: 1"=1000'

SCALE APROXIMATE:
PICTURE ADJUSTED FROM
NON-RECTIFIED PHOTO

L&P FILE: 276aer-b.dgn

Site Plan Photo
Example Section B-B

Aerial Photo Number:
APS95830-5-32
03-16-95

Drawn By: LRM
Checked By: FP
Date: 07-08-96

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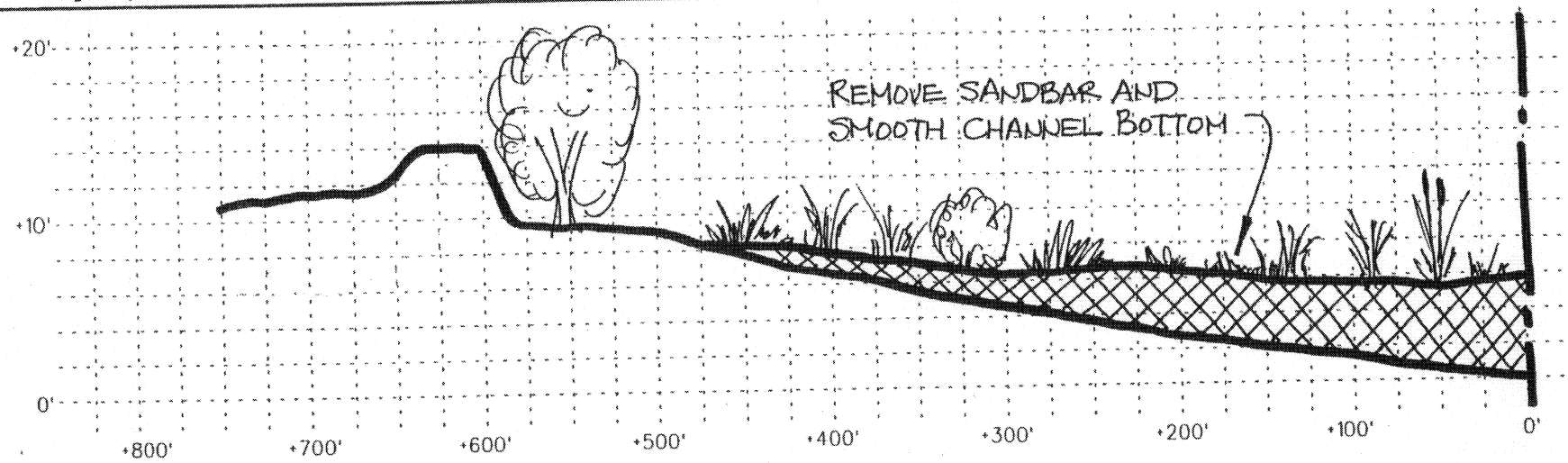
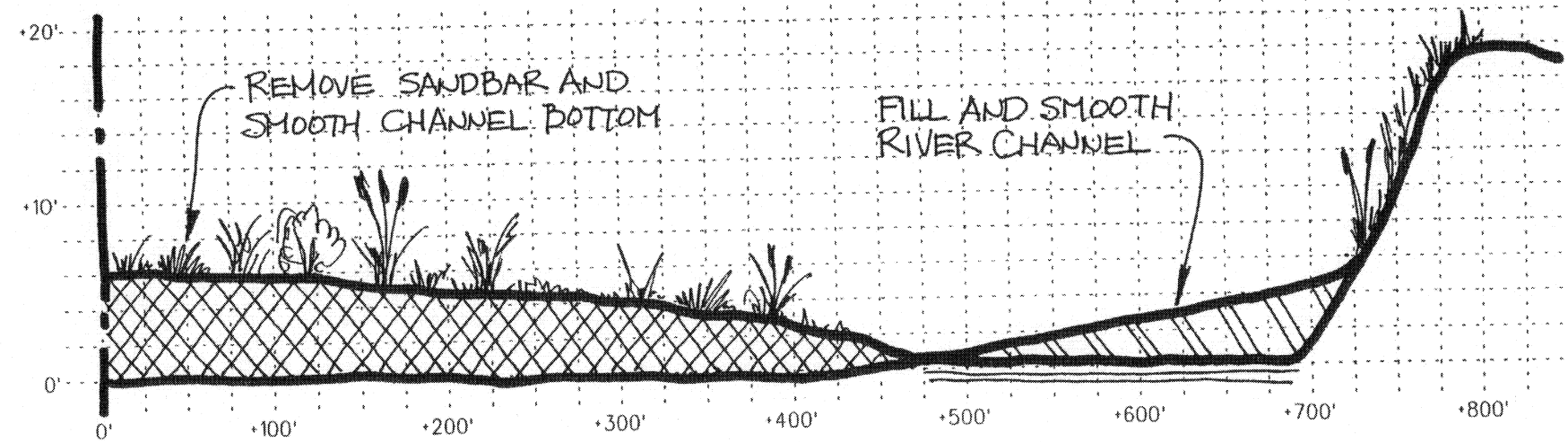


Left Bank

LOOKING DOWNSTREAM

SCALES: HORIZ. - 1"=100'
VERT. - 1"=10'



SCALES: HORIZ. - 1"=100'
VERT. - 1"=10'

LOOKING DOWNSTREAM

Right Bank

L&P FILE: 276examp.dgn

River Section & Elevations

Example Section **B-B**

Drawn By: LRM
Checked By: FP
Date: 07-05-96

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Photo #1

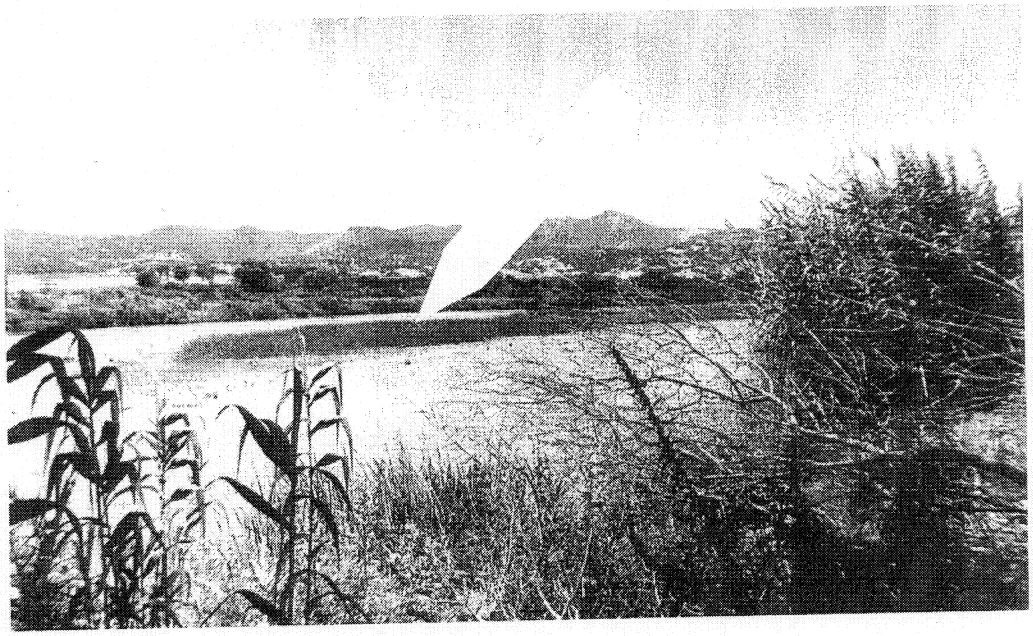

Photo #2

L&P FILE: 276pic-b.dgn

Photo Sheet - Example Section B-B

Drawn By: LRM
Checked By: FP
Date: 07-08-96

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SECTION B-B DESCRIPTION

Photographs of Section B-B on the Salinas River channel are taken downstream of the Highway 101 Bridge at King City. Photo number 1 is looking upstream with the northbound lane of the bridge in the foreground while the southbound structure is seen in the distance. The arrow identifies a sandbar deposit in mid-channel. Also, note the sandbar deposits to the right of the picture. These deposits are forcing the flow against the left bank levee. Picture number 2 is looking downstream across the channel. The large sandbar with vegetation beginning to appear is presently splitting the flow into two channels. Vegetative growth in the foreground is on the right bank. River flow is from controlled releases at south county reservoirs.

Proposed work in this area may include removal of midstream sandbars and smoothing the sand bottom into a more central location. Some sandbar material and vegetation may be moved to the right bank for additional levee toe protection.

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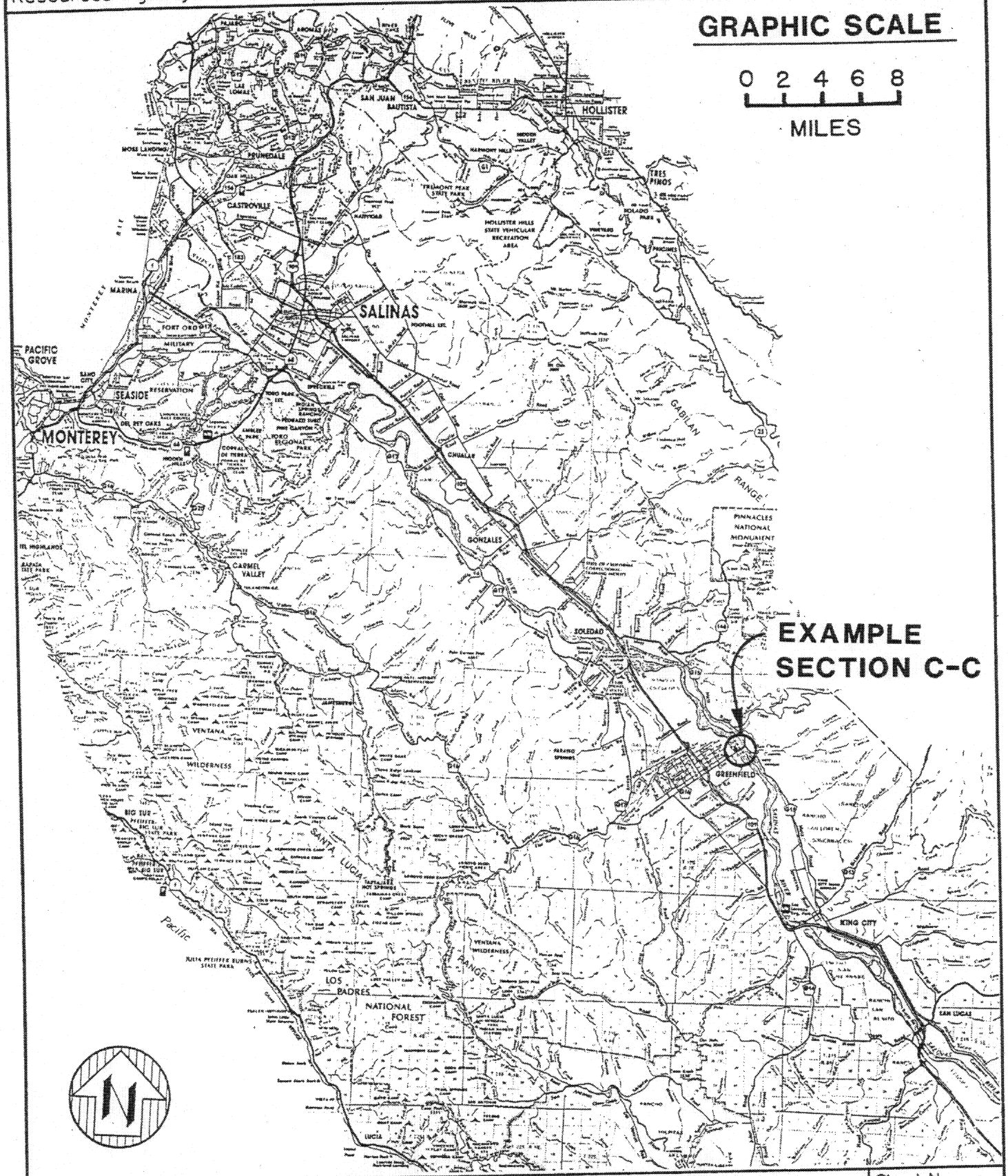

Location Map - Example Section C-C

Drawn By: LRM
Checked By: FP
Date: 07-05-96

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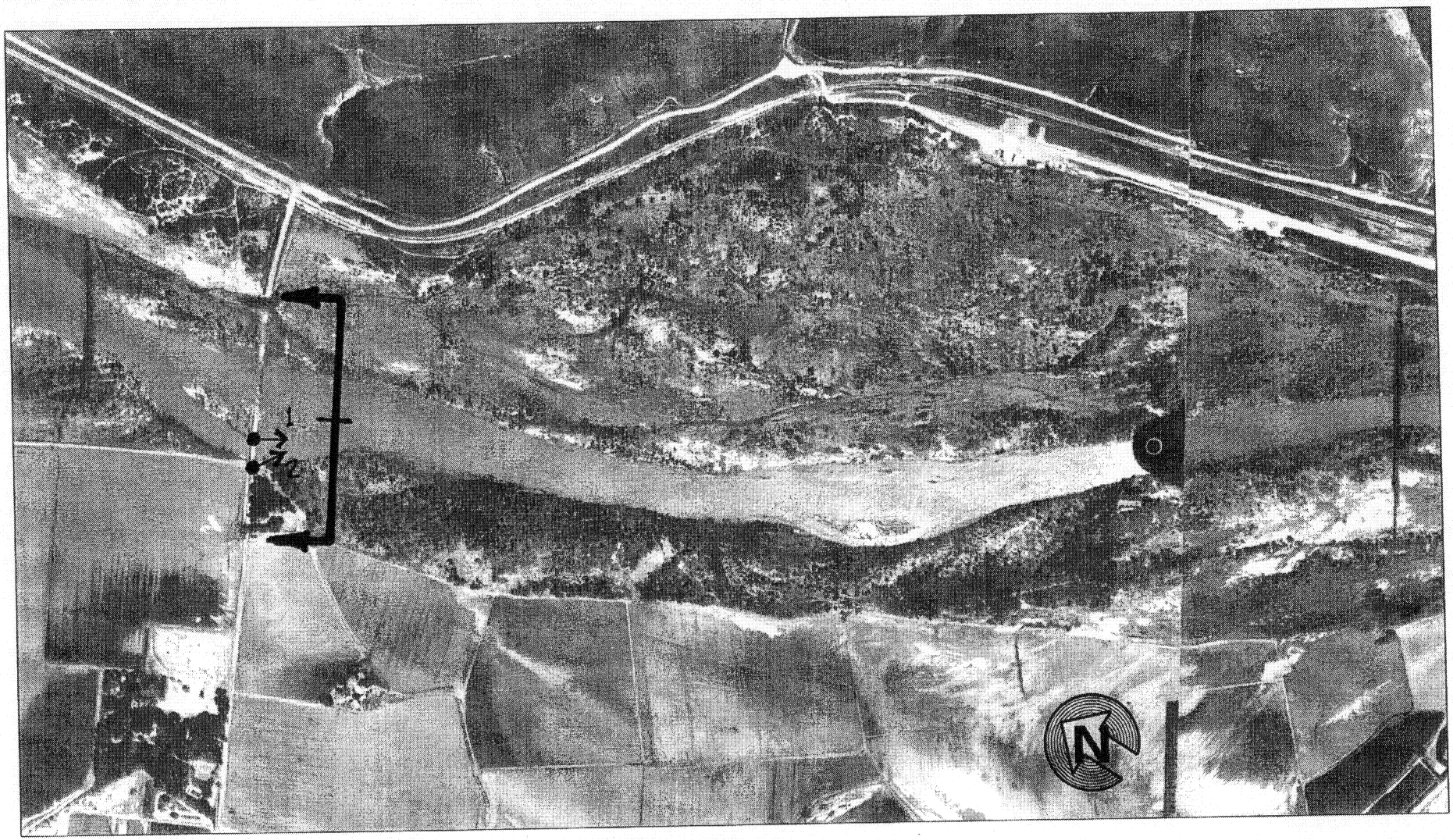

1000' 0' 1000'

SCALE: 1"=1000'

SCALE APROXIMATE:
PICTURE ADJUSTED FROM
NON-RECTIFIED PHOTO

L&P FILE: 276aer-c.dgn

Site Plan Photo
Example Section C-C

Aerial Photo Number:
APS95830-7-28
03-16-95

Drawn By: LRM
Checked By: FP
Date: 07-08-96

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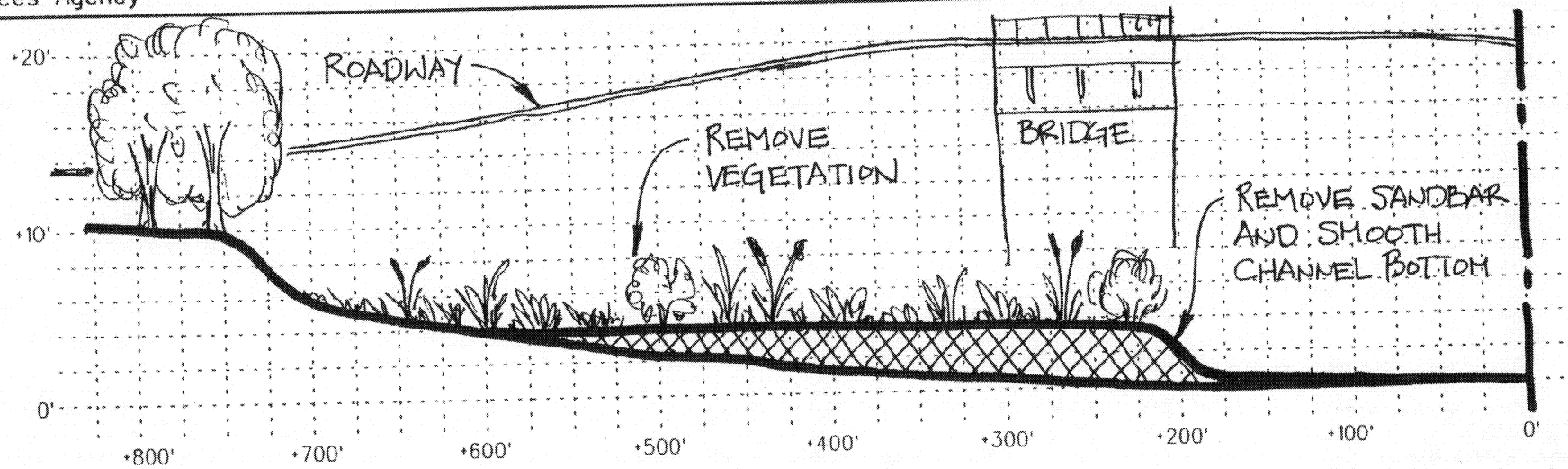
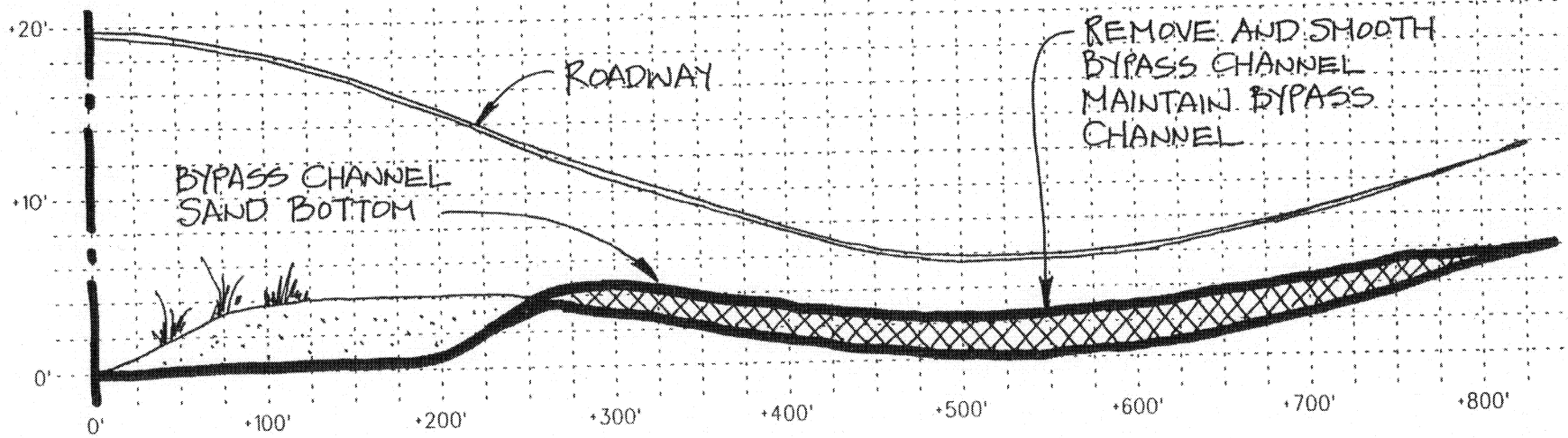


Left Bank

LOOKING DOWNSTREAM

SCALES: HORIZ. - 1"=100'
VERT. - 1"=10'



SCALES: HORIZ. - 1"=100'
VERT. - 1"=10'

LOOKING DOWNSTREAM

Right Bank

L&P FILE: 276examp.dgn

River Section & Elevations

Example Section
C-C

Drawn By:	LRM
Checked By:	FP
Date:	07-05-96

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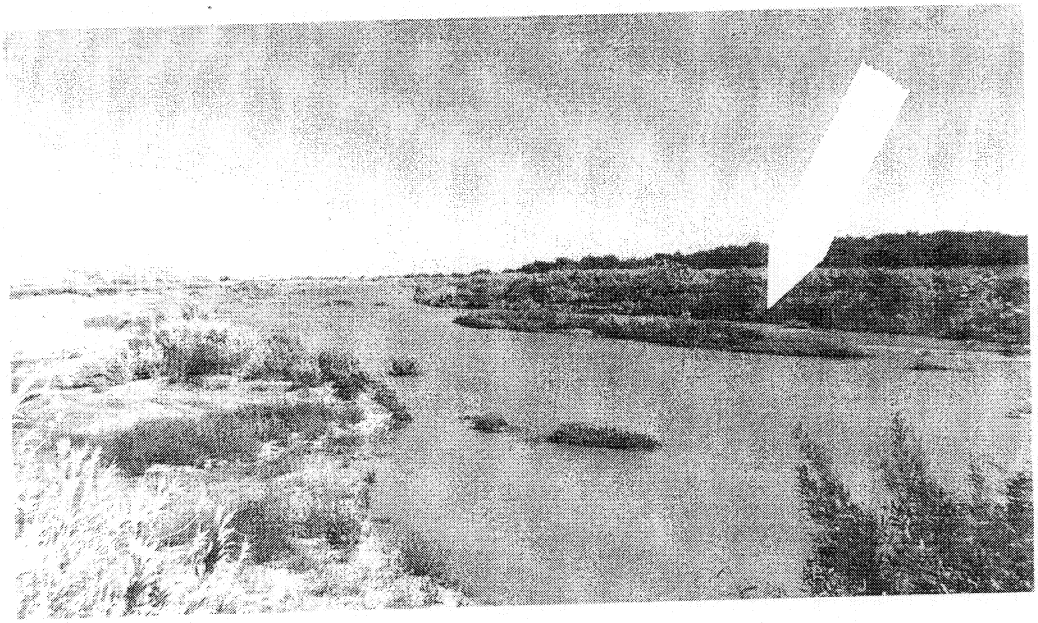

Photo #1

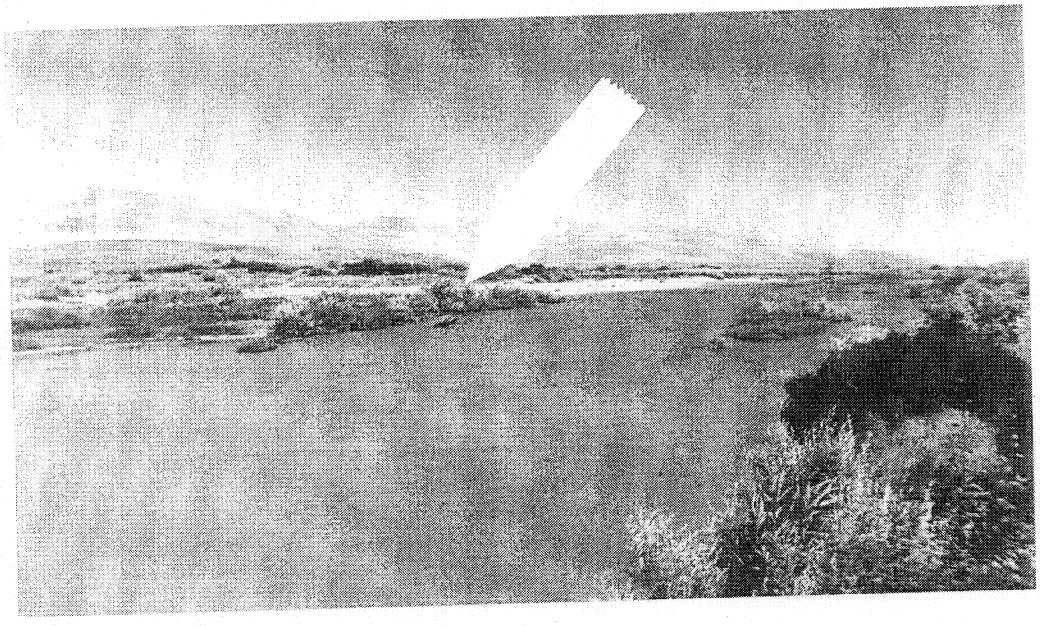

Photo #2

L&P FILE: 276pic-c.dgn

Photo Sheet - Example Section C-C

Drawn By: LRM
Checked By: FP
Date: 07-08-96

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SECTION C-C DESCRIPTION

Photographs of Section C-C are taken at the Elm Avenue crossing, east of Greenfield. The river plain in this area covers a meander width of over 1800-feet. Normal flows generated by controlled releases from the south county reservoir are channeled to less than 200-feet in width under the crossing bridge. A bypass channel handles higher flows generated by winter storm events. Photo number 1 is taken from the east bridge approach looking upstream. The arrow points to areas of siltation that are generating vegetative growth and thus blocking the channel. The white sandy approach to the bypass channel is seen on the extreme left edge of the picture. Photo number 2 is taken from the west approach to the bridge and shows the upstream approach to the bypass channel. The arrow points to vegetation that is attracting siltation along the east side of the flow channel.

Proposed work in this area may include vegetation removal and shaping and smoothing both the normal flow channel as well as the bypass channel. This work would be oriented towards maintaining a smooth flow channel and minimizing impacts from high flows on the crossing infrastructure. Downstream work would be similar and designed to allow smooth flow from the crossing while reducing impacts to the levee.

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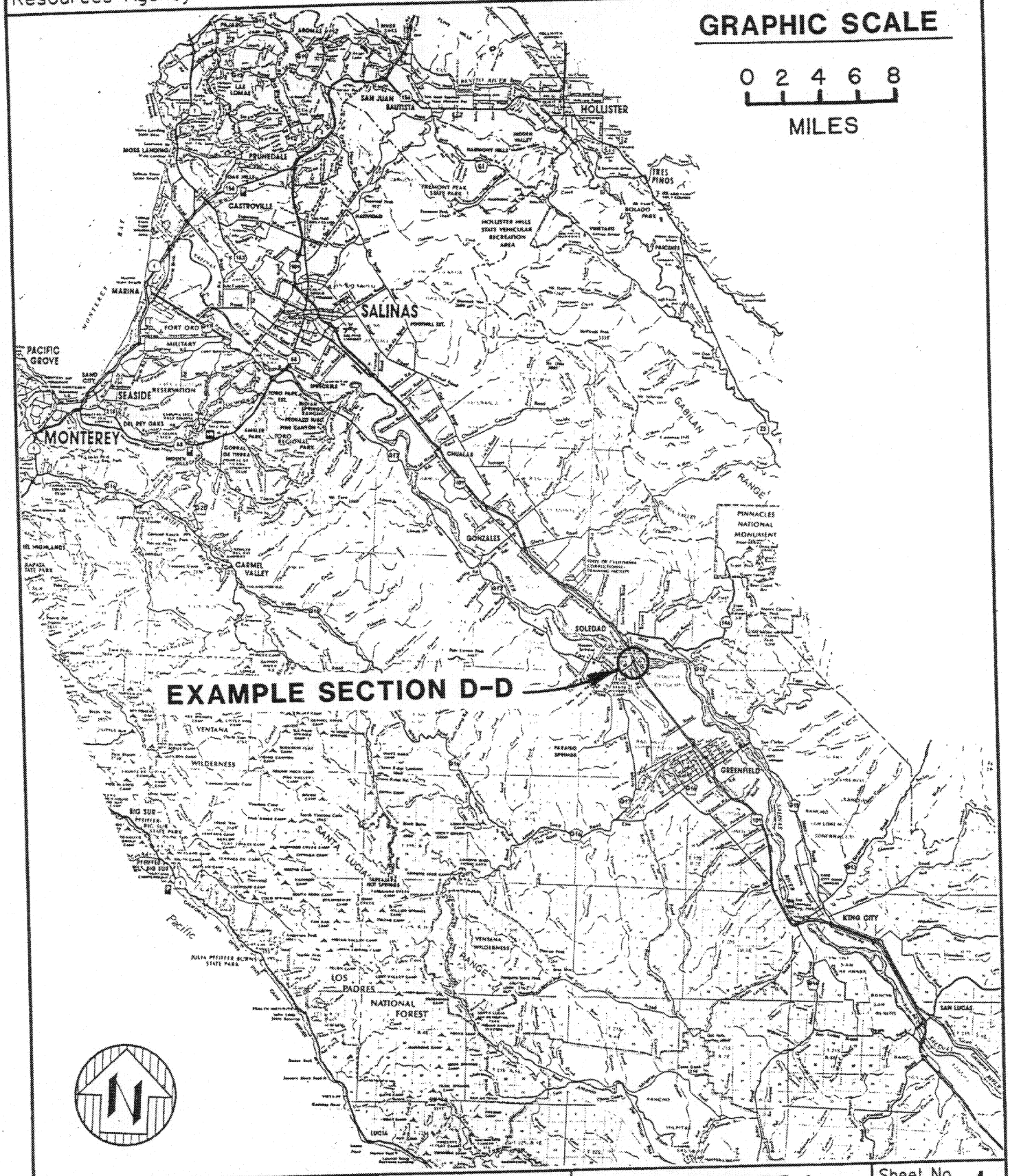

Location Map - Example Section D-D

Drawn By: LRM

Checked By: FP

Date: 07-05-96

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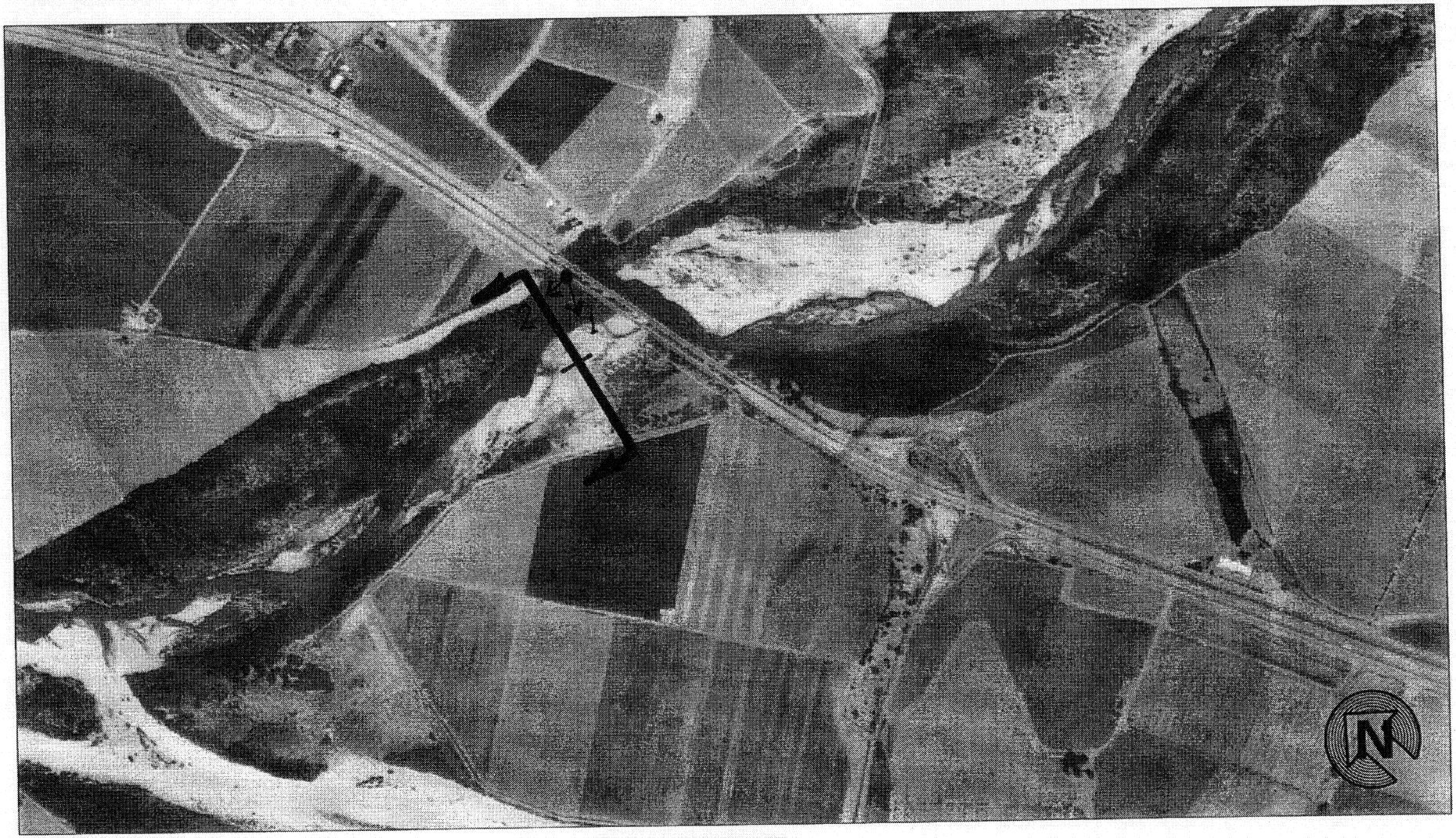

1000' 0' 1000'

SCALE: 1"=1000'

SCALE APROXIMATE:
PICTURE ADJUSTED FROM
NON-RECTIFIED PHOTO

L&P FILE: 276aer-d.dgn

Site Plan Photo
Example Section D-D

Photo Provided by:
Monterey County Water
Resources Agency
Photo #50026 06-10-96

Drawn By:	LRM
Checked By:	FP
Date:	07-08-96

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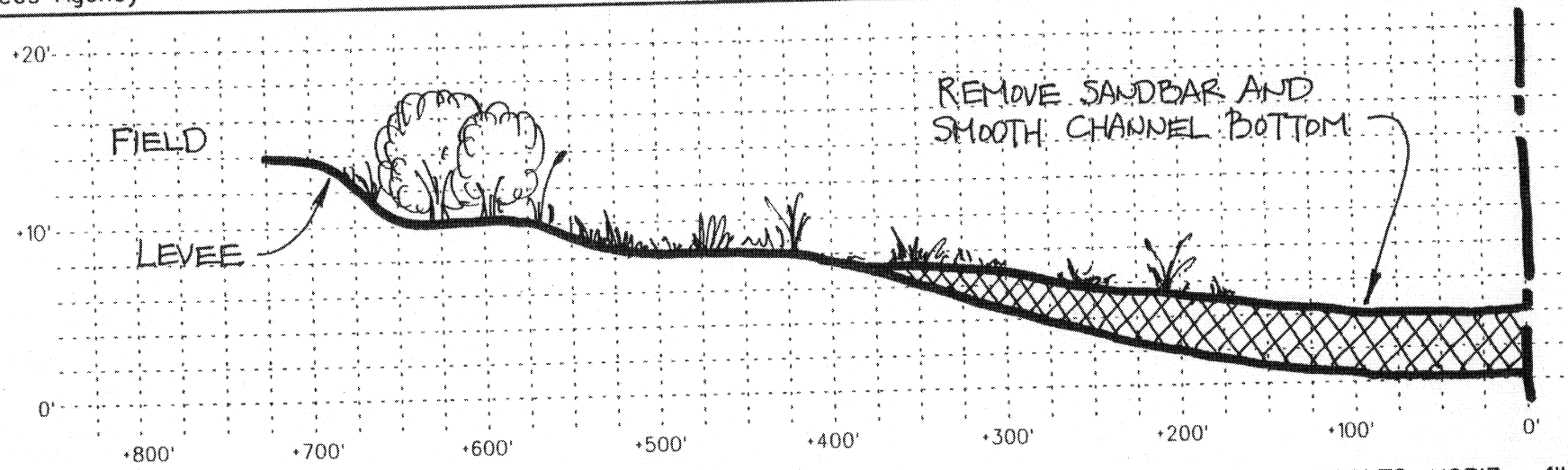
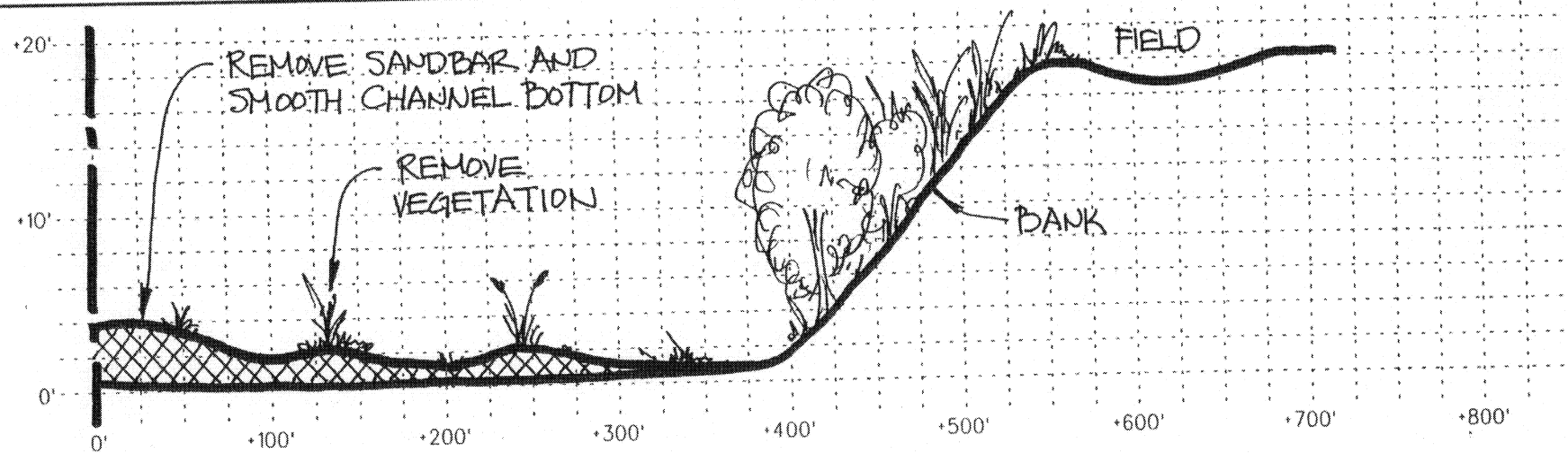


Left Bank

LOOKING DOWNSTREAM

SCALES: HORIZ. - 1"=100'
VERT. - 1"=10'



SCALES: HORIZ. - 1"=100'
VERT. - 1"=10'

LOOKING DOWNSTREAM

Right Bank

L&P FILE: 276examp.dgn

River Section & Elevations

Example Section
D-D

Drawn By: LRM
Checked By: FP
Date: 07-05-96

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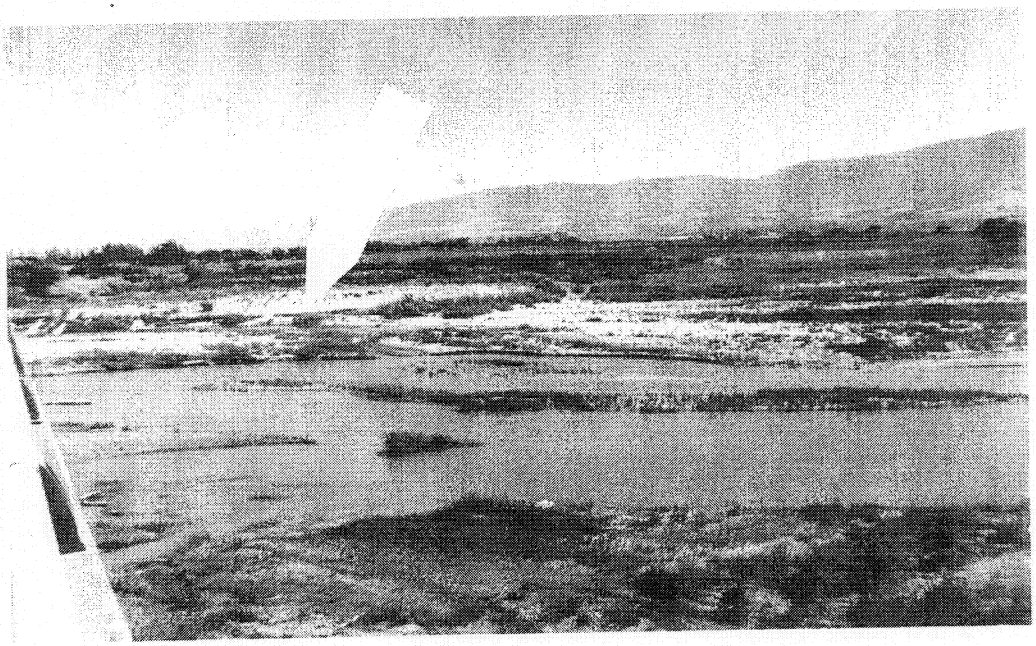

Photo #1

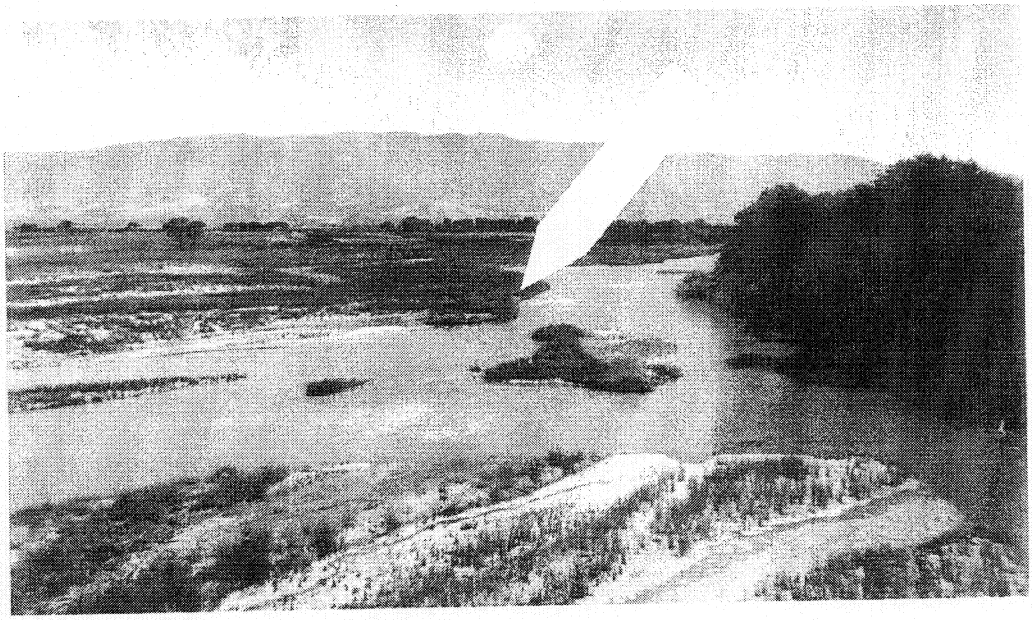

Photo #2

L&P FILE: 276pic-d.dgn

Photo Sheet - Example Section D-D

Drawn By: LRM
Checked By: FP
Date: 07-08-96

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SECTION D-D DESCRIPTION

Section D-D photographs are taken immediately downstream from the Highway 101 bridge crossing south of Soledad. General river bottom characteristics are a sandy bottom with freshly vegetated sandbars and silt deposits. The right bank is steep and heavily wooded with mature willows. The left bank consists of a sandbar and eroded bank. A farm levee protects the fields to the south. Photo Number 1 is taken from the Highway 101 bridge looking south across the channel. The arrow points to sandbar deposits and vegetation which has begun to grow in areas cleared during the 1995 emergency channel work. Photo Number 2 is also taken from the Highway 101 bridge and shows the downstream channel and heavily wooded right bank. The arrow points to in-channel sandbars that are exhibiting rapid vegetative growth.

Proposed work in this area would include removal of in-channel vegetation, shaping and smoothing channel to center flows and provide toe protection to the right bank. Some sandbar relocation may occur to provide an additional buffer between the left bank levee and high water flow line.

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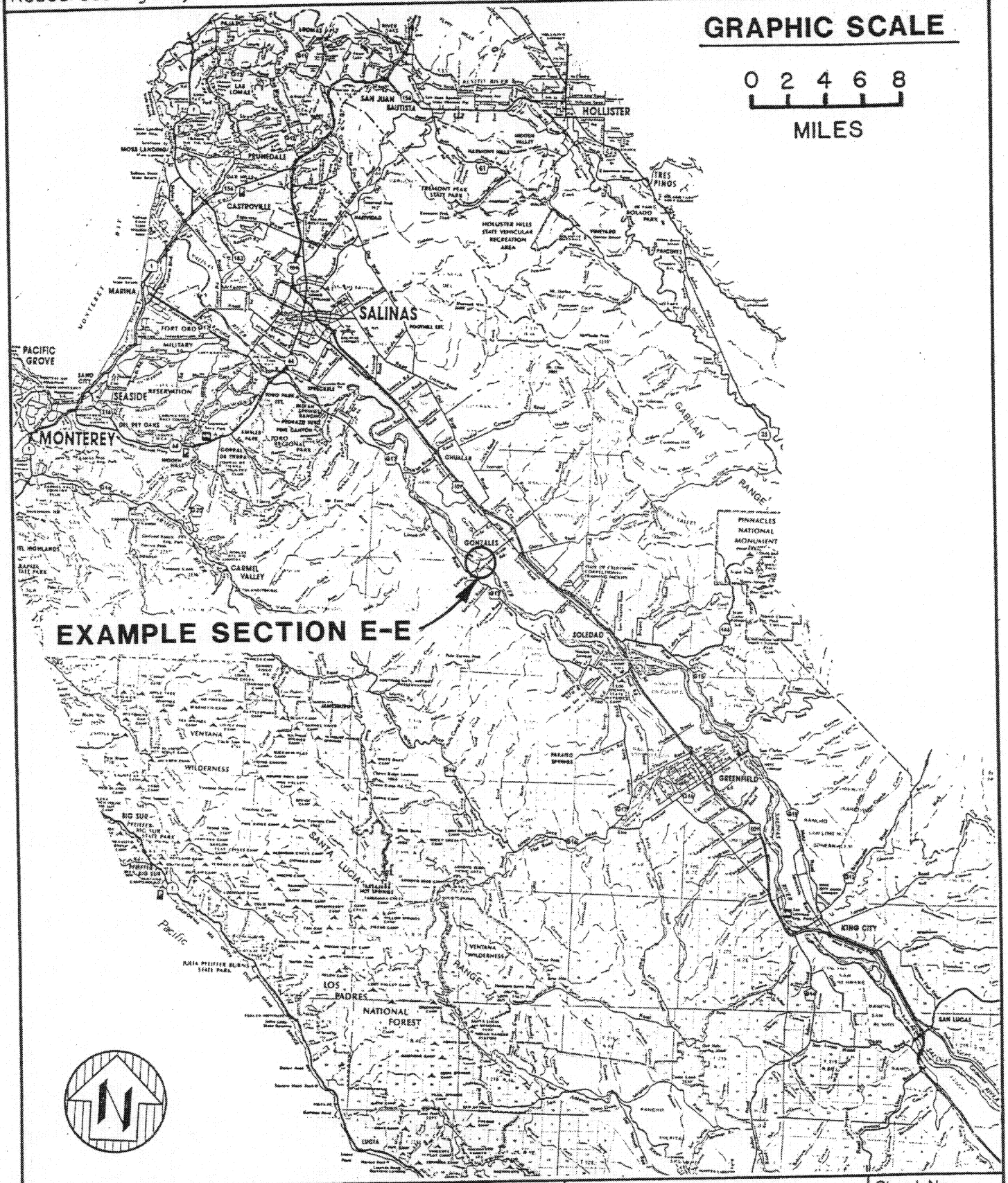

Location Map - Example Section E-E

Drawn By:	LRM
Checked By:	FP
Date:	07-05-96

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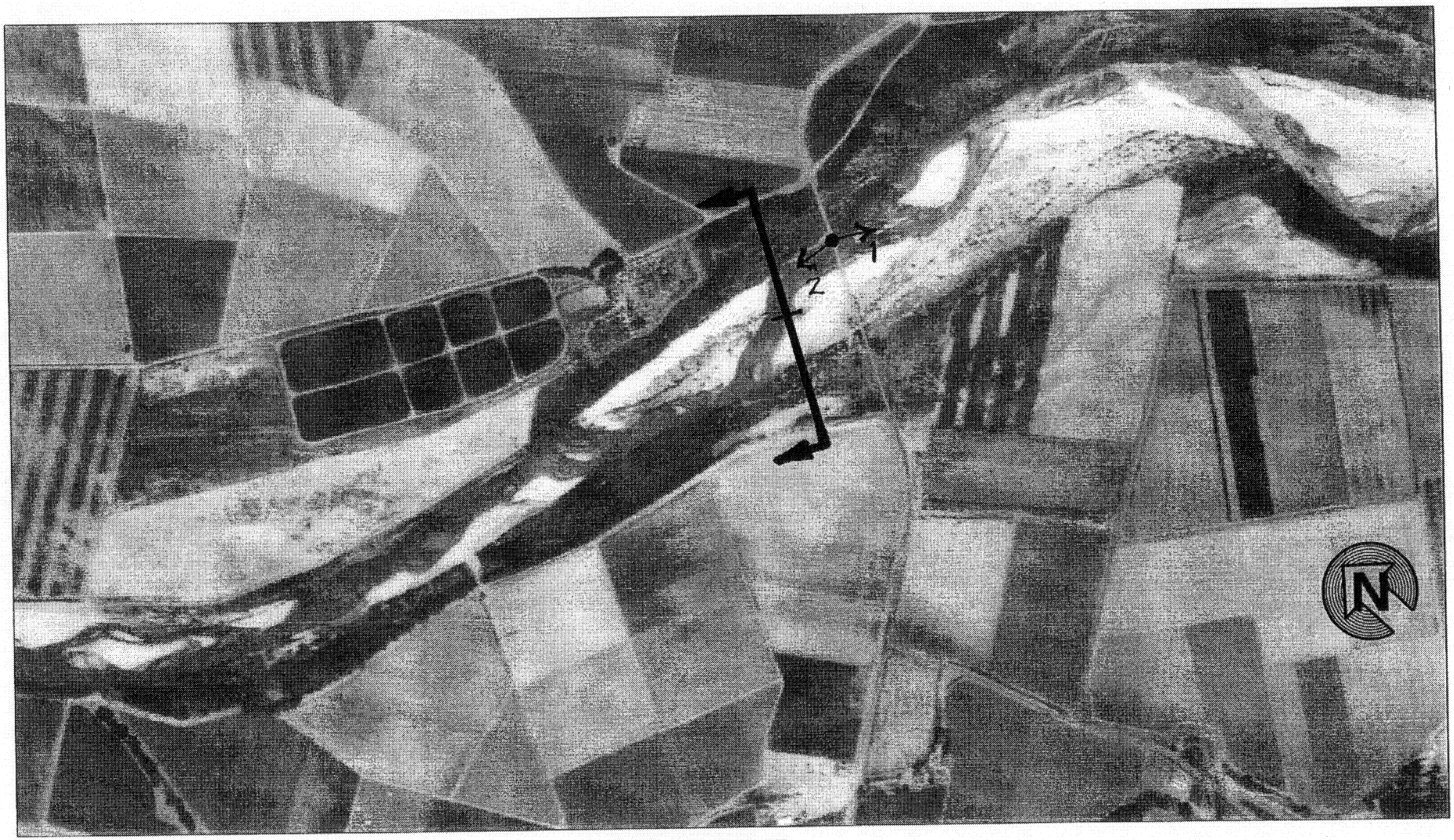

1000' 0' 1000'

SCALE: 1"=1000'

SCALE APROXIMATE:
PICTURE ADJUSTED FROM
NON-RECTIFIED PHOTO

L&P FILE: 276aer-e.dgn

Site Plan Photo Example Section E-E

Photo Provided by:
Monterey County Water Resources Agency
Photo #50030 06-10-96

Drawn By: LRM
Checked By: FP
Date: 07-08-96

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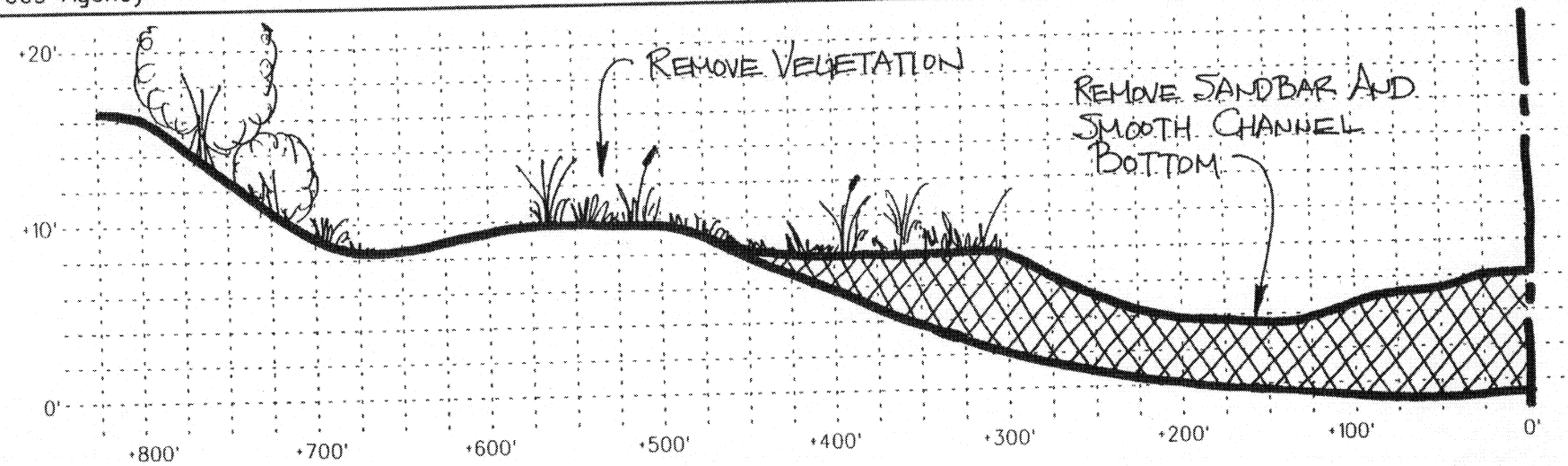
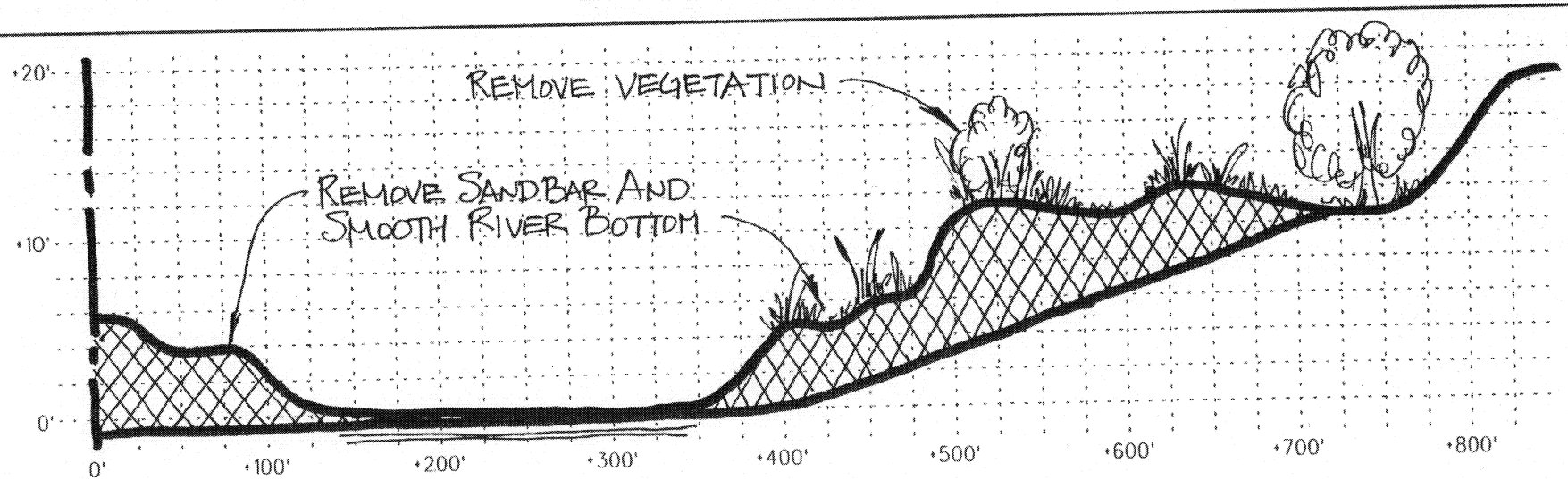


Left Bank

LOOKING DOWNSTREAM

SCALES: HORIZ. - 1"=100'
VERT. - 1"=10'



SCALES: HORIZ. - 1"=100'
VERT. - 1"=10'

LOOKING DOWNSTREAM

Right Bank

L&P FILE: 276examp.dgn

River Section & Elevations

Example Section
E-E

Drawn By:	LRM
Checked By:	FP
Date:	07-05-96

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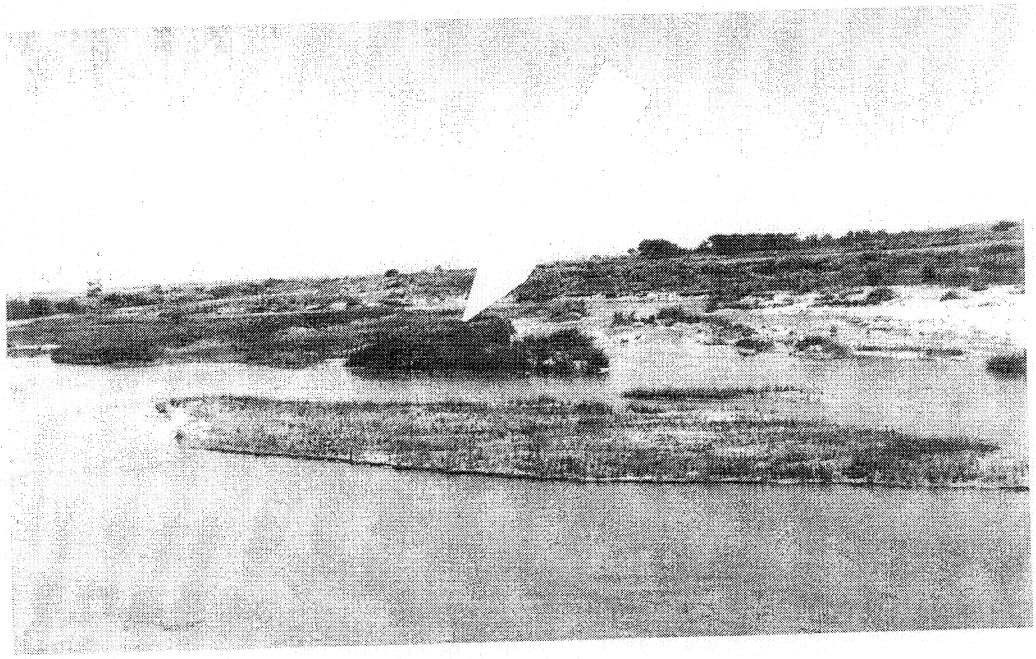

Photo #1

Photo #2

L&P FILE: 276pic-e.dgn

Photo Sheet - Example Section E-E

Drawn By: LRM
Checked By: FP
Date: 07-08-96

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SECTION E-E DESCRIPTION

Photographs of Section E-E are taken downstream of the Gonzales River road crossing. This section, as in the preceding sections, consists of sandy bottom laced with sandbars and silt deposits. Both the right and left banks consist of levees protecting adjacent farm lands. River flows are part of the controlled releases from south county reservoirs used for aquifer recharge. Continued river flows in this location provide ample moisture for rapid vegetation growth in and along channel sandbar deposits. Photo Number 1 is looking upstream from the bridge. The arrow points out in-channel sandbars covered with new vegetation. A low sandy bank can be seen in the background. Photo Number 2, again taken from the bridge, provides a view of the downstream channel. The arrow points to a large sandbar covered with head high vegetation that has begun forcing flow to the left bank.

Proposed work in this portion of the channel is typical of a sandy broad meander channel. Work may include removal of in-channel vegetation, removal or relocation of in-channel sandbars, and smoothing and shaping of the channel bottom. By shaping and smoothing of the channel bottom, the controlled flows can spread out over a greater width, thus providing an opportunity for recharge enhancement.

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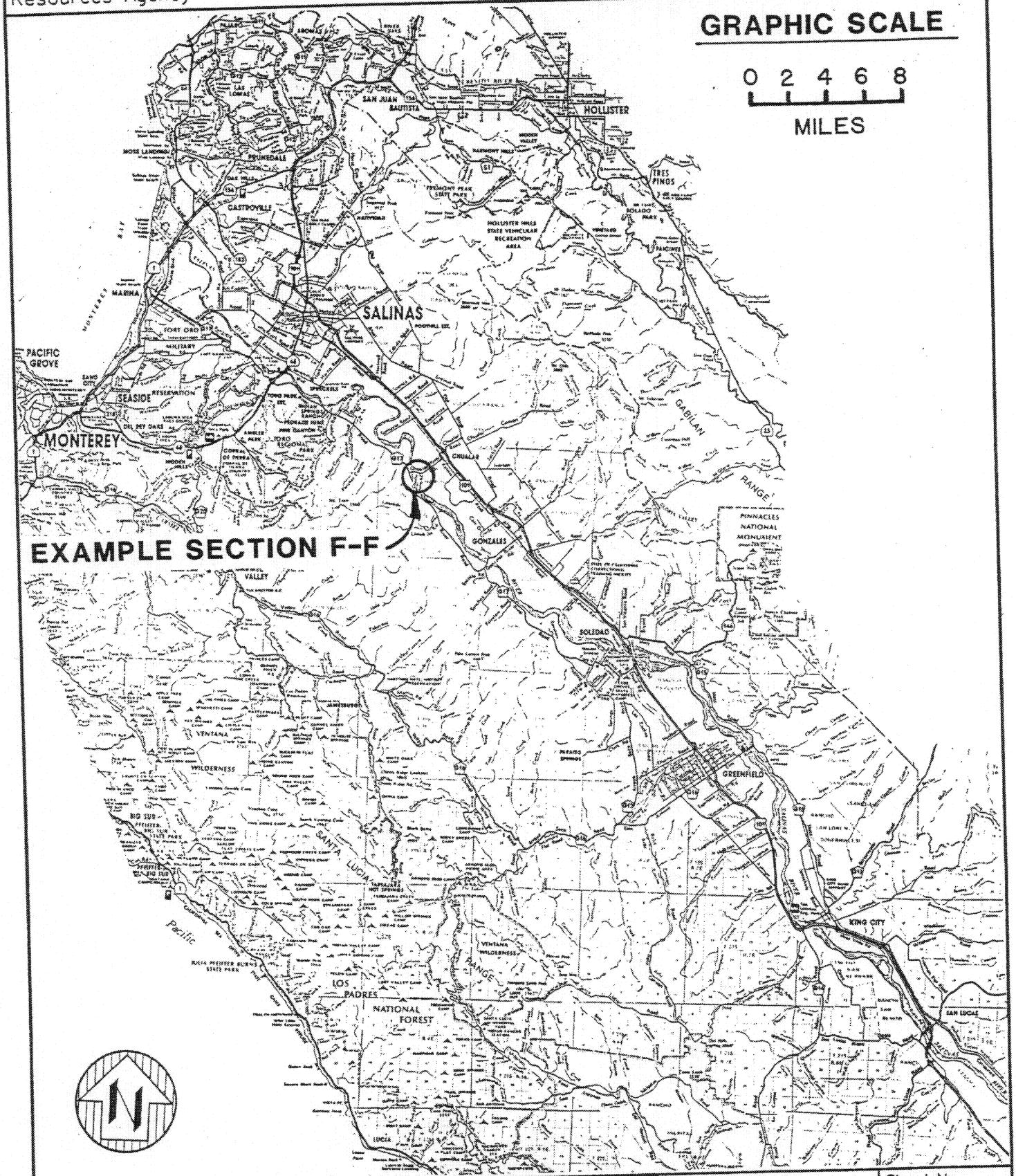

Location Map - Example Section F-F

Drawn By:	LRM
Checked By:	FP
Date:	07-05-96

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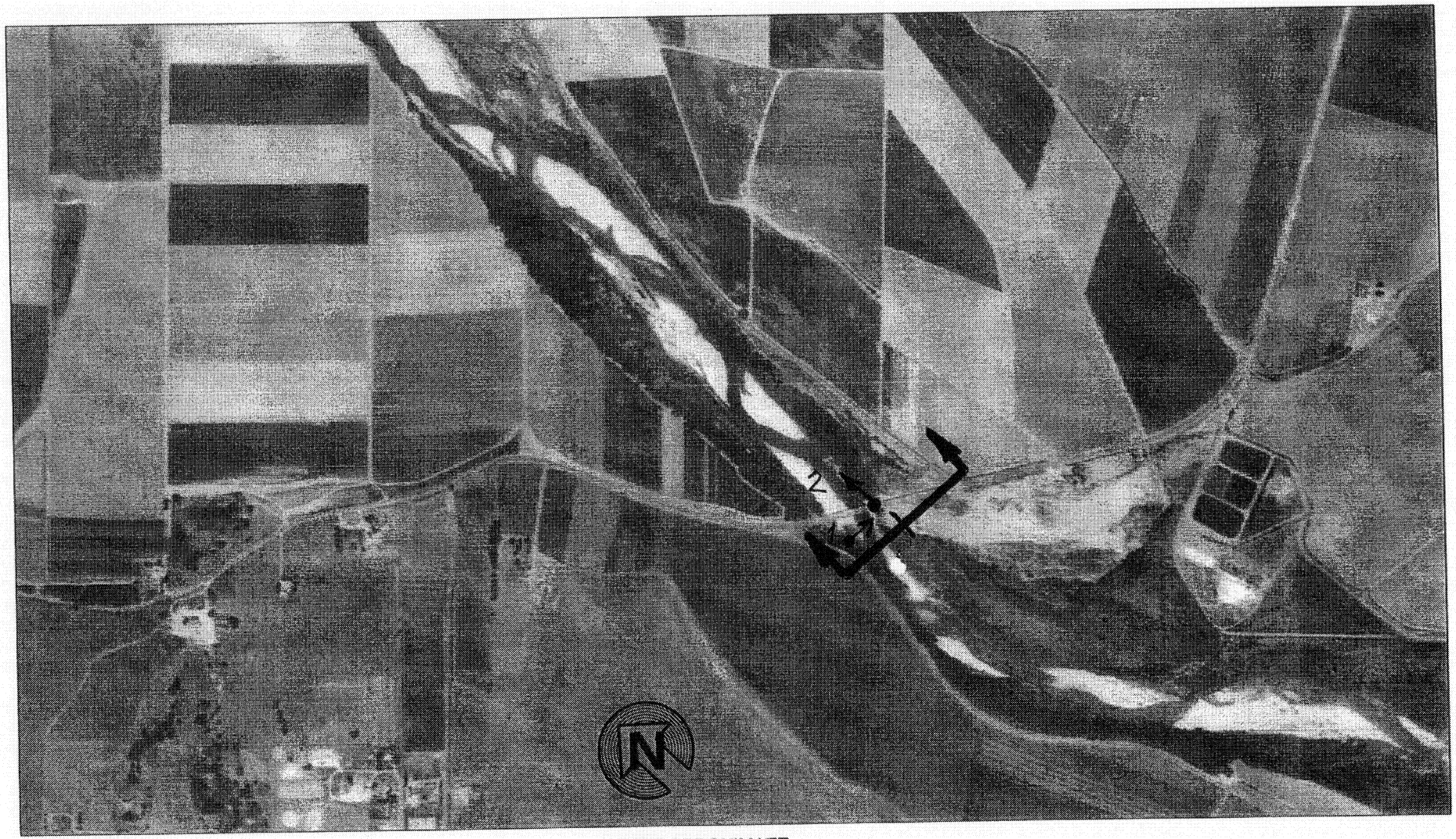

1000' 0' 1000'

SCALE: 1"=1000'

SCALE APROXIMATE:
PICTURE ADJUSTED FROM
NON-RECTIFIED PHOTO

L&P FILE: 276aer-f.dgn

Site Plan Photo
Example Section F-F

Photo Provided by:
Monterey County Water
Resources Agency
Photo #50032 06-10-96

Drawn By: LRM
Checked By: FP
Date: 07-08-96

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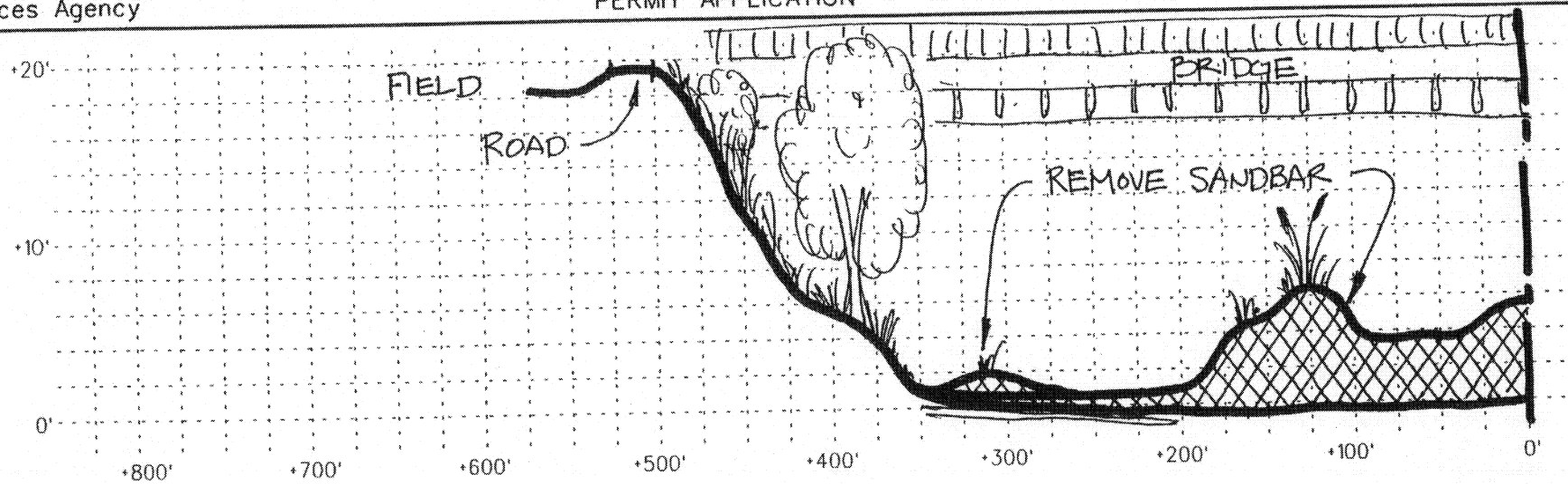
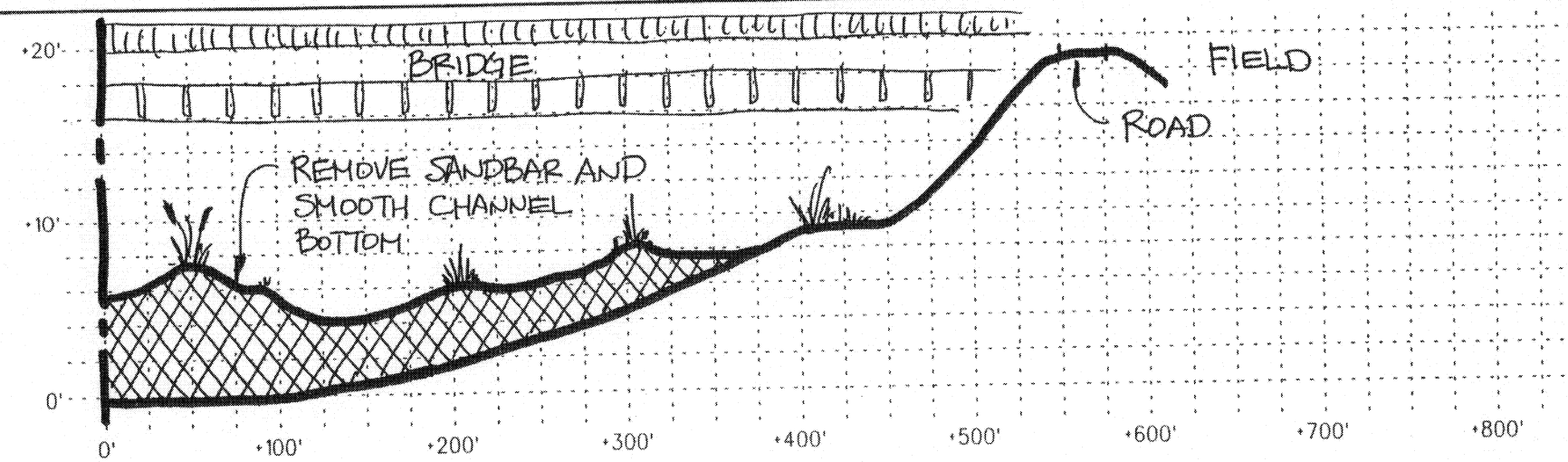


Left Bank

LOOKING DOWNSTREAM

SCALES: HORIZ. - 1"=100'
VERT. - 1"=10'



SCALES: HORIZ. - 1"=100'
VERT. - 1"=10'

LOOKING DOWNSTREAM

Right Bank

L&P FILE: 276examp.dgn

River Section & Elevations

Example Section
F-F

Drawn By: LRM
Checked By: FP
Date: 07-05-96

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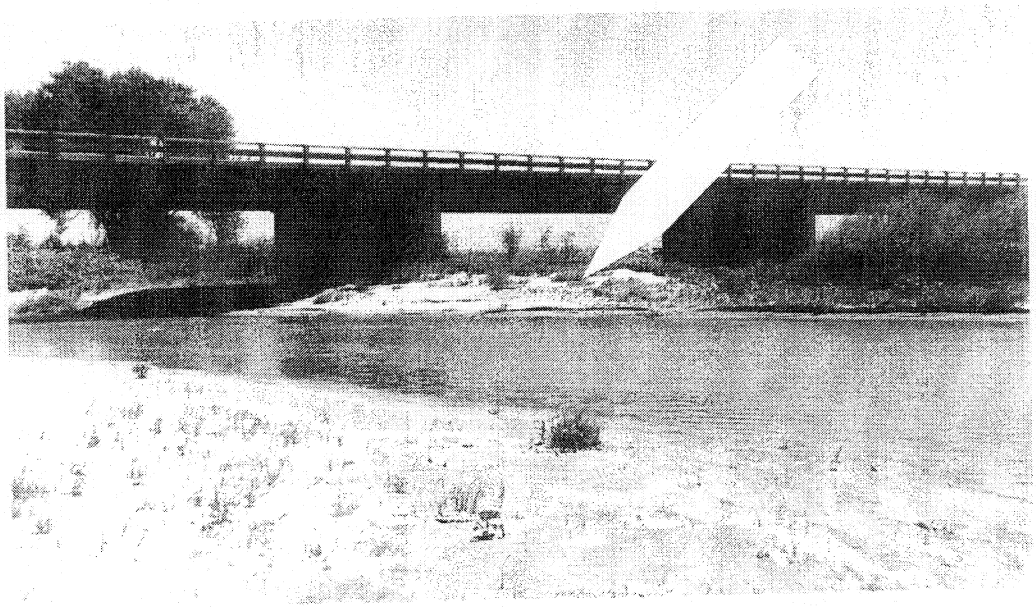

Photo #1

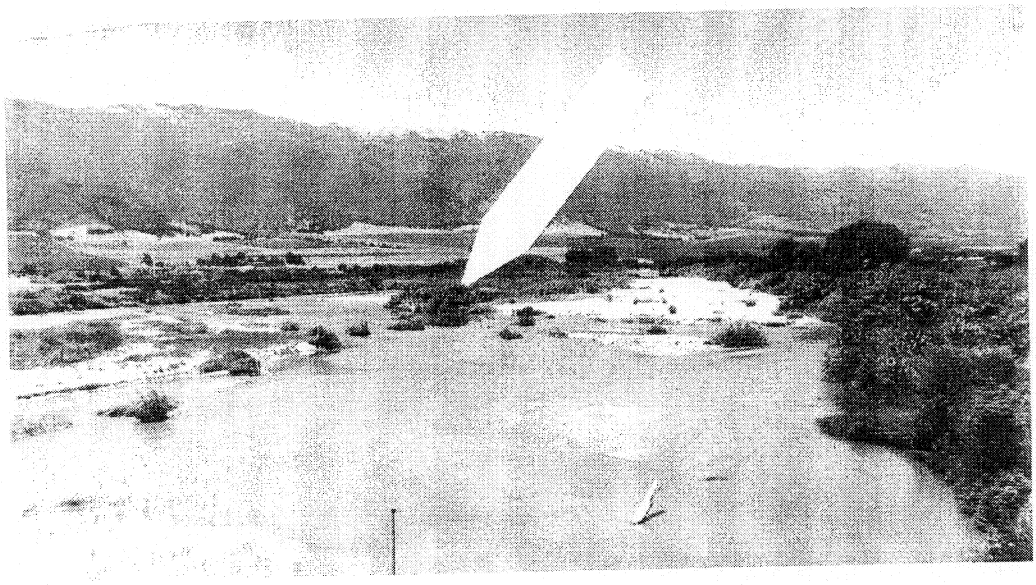

Photo #2

L&P FILE: 276pic-f.dgn

Photo Sheet - Example Section F-F

Drawn By: LRM
Checked By: FP
Date: 07-08-96

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SECTION F-F DESCRIPTION

Section F-F photographs were taken upstream of the Chualar River road crossing. The river channel along this reach is similar in nature to the upstream locations, a broad sandy bottom contained by levees protecting adjacent farm lands. Water releases from south county reservoirs continue to be present, however this is considered the beginning of the lower limit of flows as recharge capacity of the river bottom begins to be limited. Photo Number 1 is taken from upstream of the bridge looking east across the channel. A silt bar with sprouting vegetation is in the foreground. The arrow points to a 4-5 foot high sandbar that has begun to clog the channel. Photo Number 2 is looking downstream from the bridge. This picture provides a clear view of the meander channel showing both banks with in between sandbars and vegetative obstructions. The arrow points to a series of vegetative clumps that are blocking river flows. These clumps provide an opportunity for catching silt and sand which in turn leads to further clogging of the channel.

Proposed work in this type of river condition may include vegetation and sandbar removal, as well as shaping and smoothing of the channel bottom. Removal of sandbars and associated vegetation would be done to increase channel capacity in the event of high winter storm event runoff.

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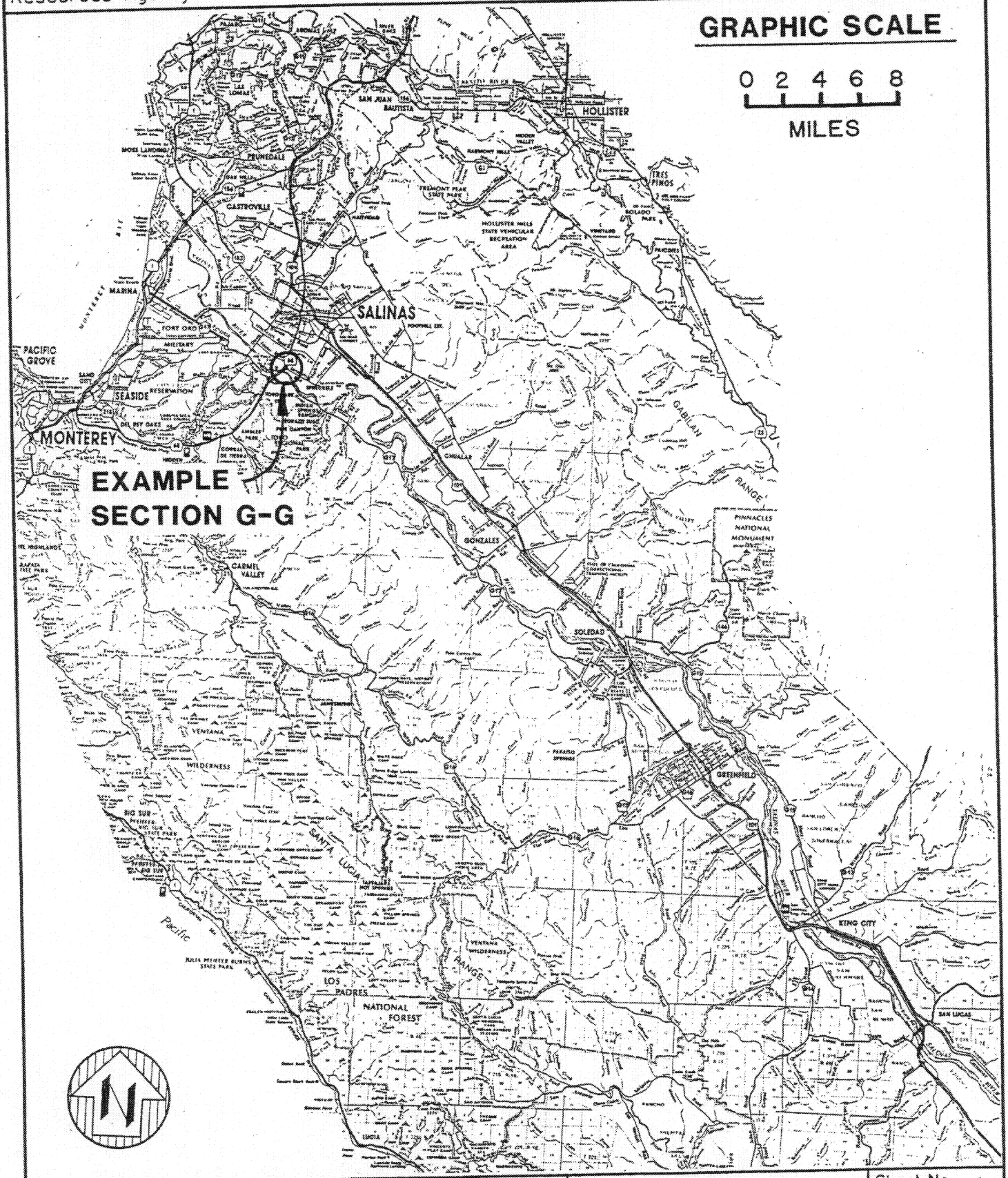

Location Map - Example Section G-G

Drawn By: LRM
Checked By: FP
Date: 07-05-96

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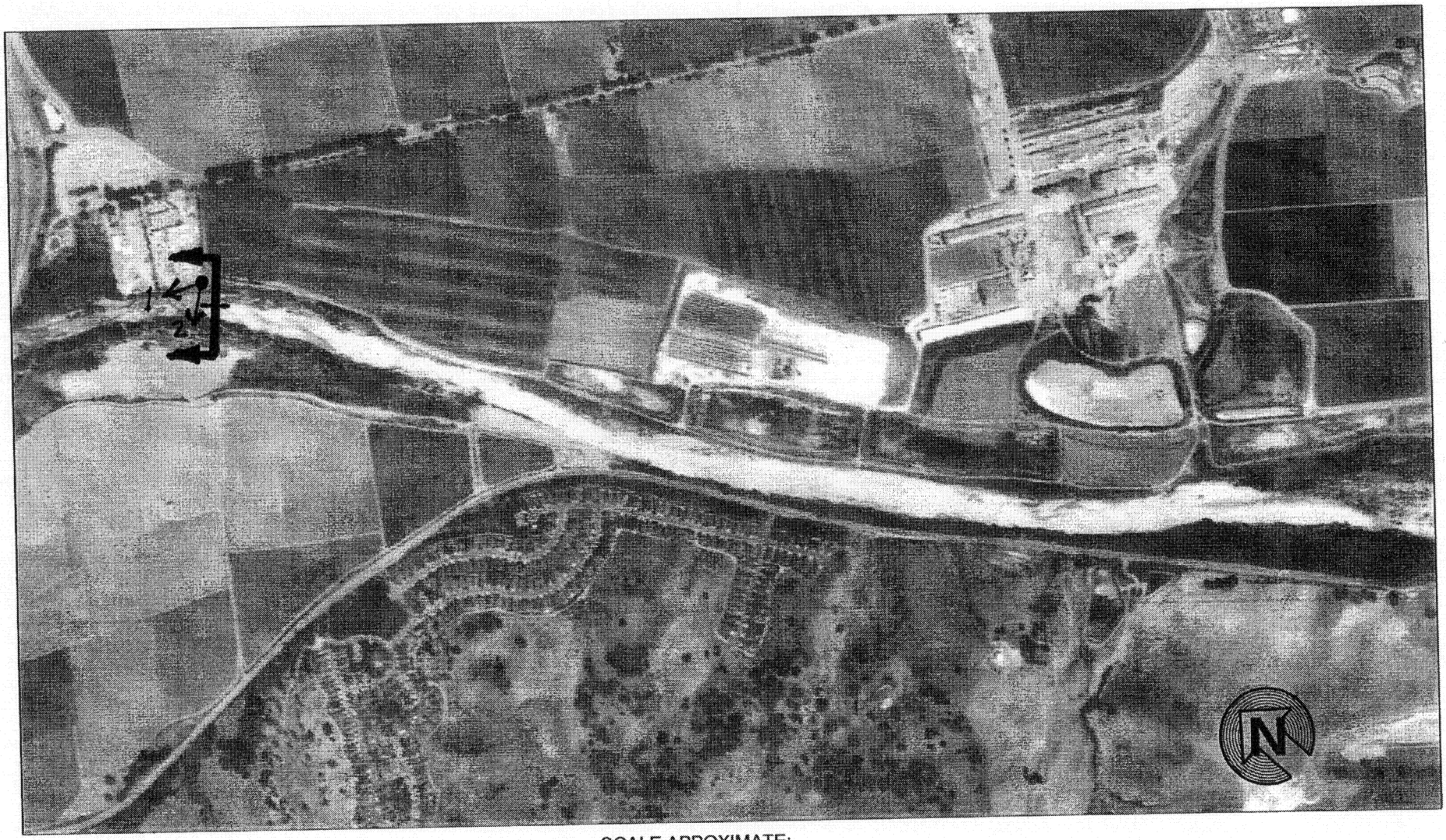

1000' 0' 1000'

SCALE: 1"=1000'

SCALE APROXIMATE:
PICTURE ADJUSTED FROM
NON-RECTIFIED PHOTO

L&P FILE: 276aer-g.dgn

Site Plan Photo Example Section G-G

Photo Provided by:
Monterey County Water Resources Agency
Photo #50036 06-10-96

Drawn By: LRM
Checked By: FP
Date: 07-08-96

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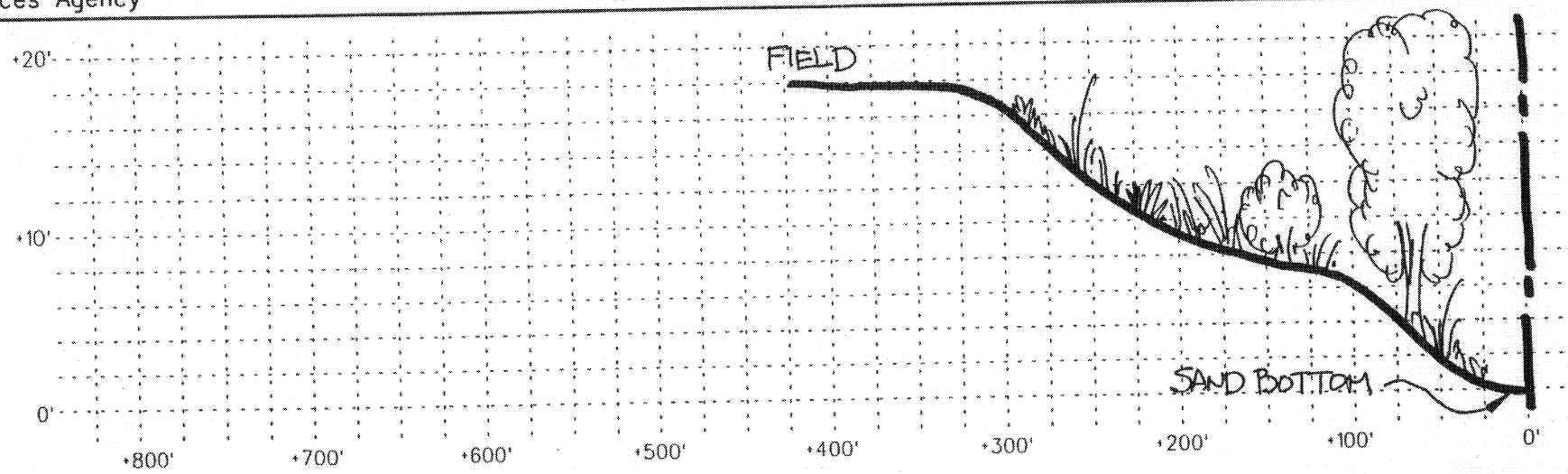
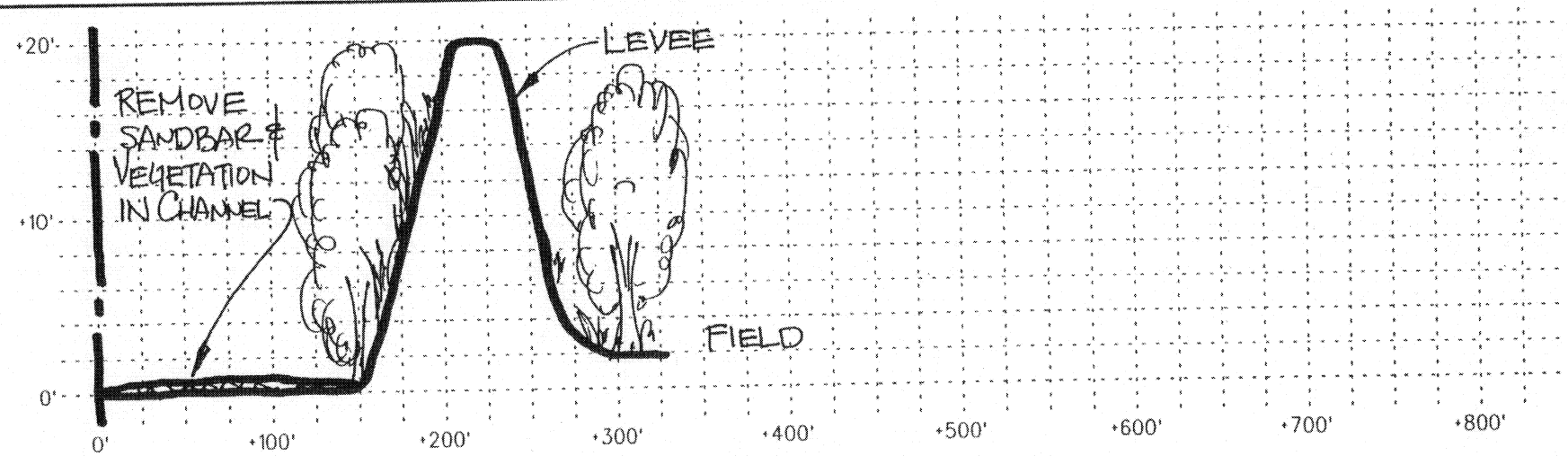


Left Bank

LOOKING DOWNSTREAM

SCALES: HORIZ. - 1"=100'
VERT. - 1"=10'



SCALES: HORIZ. - 1"=100'
VERT. - 1"=10'

LOOKING DOWNSTREAM

Right Bank

L&P FILE: 276examp.dgn

River Section & Elevations

Example Section
G-G

Drawn By:	LRM
Checked By:	FP
Date:	07-05-96

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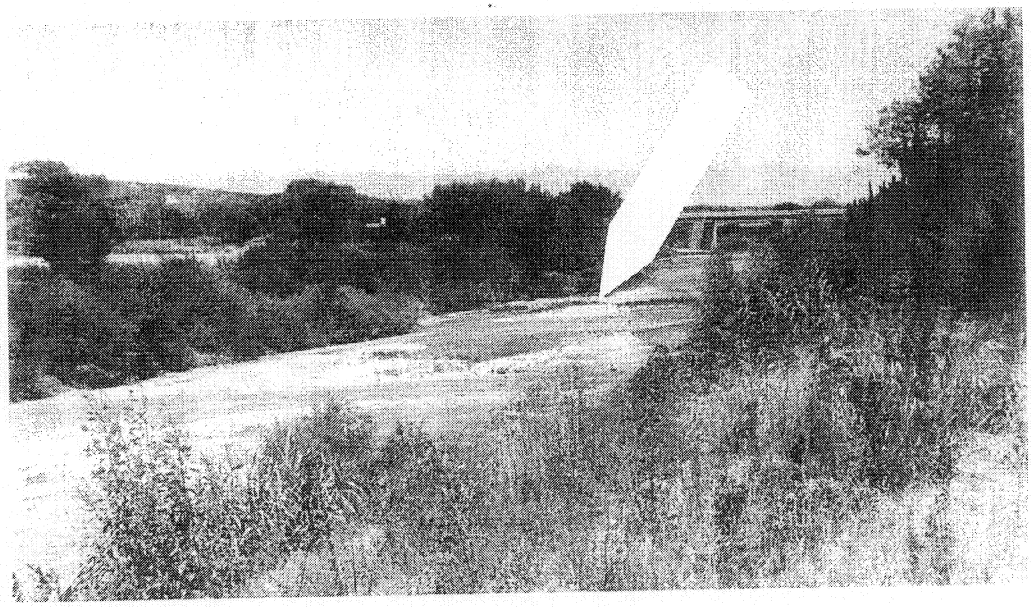

Photo #1

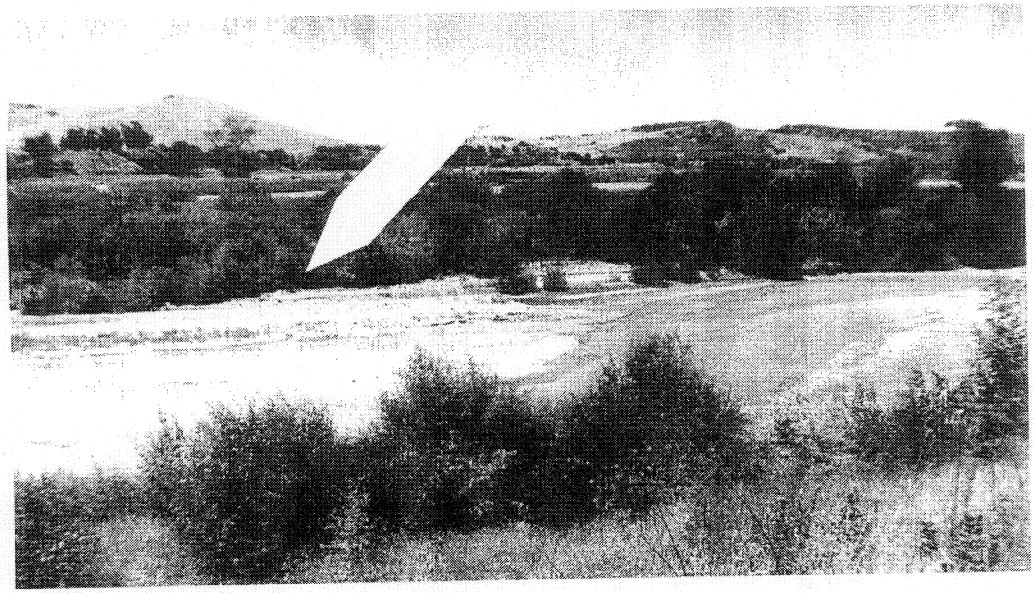

Photo #2

L&P FILE: 276pic-g.dgn

Photo Sheet - Example Section G-G

Drawn By: LRM
Checked By: FP
Date: 07-08-96

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SECTION G-G DESCRIPTION

Photographs of Section G-G were taken upstream of the Highway 68 bridge. The broad sandy bottom channel upstream has given way to a silty bottom narrow channel contained by levees constructed in the 1950's. Some areas have farm lands adjacent to the river that are between higher levees and the channel banks. Recharge flows from the south county reservoirs generally do not reach this portion of the Salinas River as they are controlled to disappear somewhere between the Chualar River bridge and the Highway 68 crossing. Standing water is often noted and is caused by seepage from irrigation and sewage from industrial waste ponds that are located along the channel. Photograph Number 1 is a view downstream with the Highway 68 bridge visible in the background. The arrow points to silt deposits and emerging vegetation located in the channel. Vegetation along the left bank can be seen encroaching into the channel. Photo Number 2 is taken from the same location of the right bank but shows the view across the channel. The arrow points to sandbars forming along the left bank which are covered by head high willow growth. The silty bottom in the foreground shows signs of vehicular traffic as this area is a popular venue for river running with dune buggies or 4-wheel drive vehicles.

Proposed work in this section of the channel may include sandbar removal or relocation, removal of lower bank vegetation, and center smoothing of the channel bottom.

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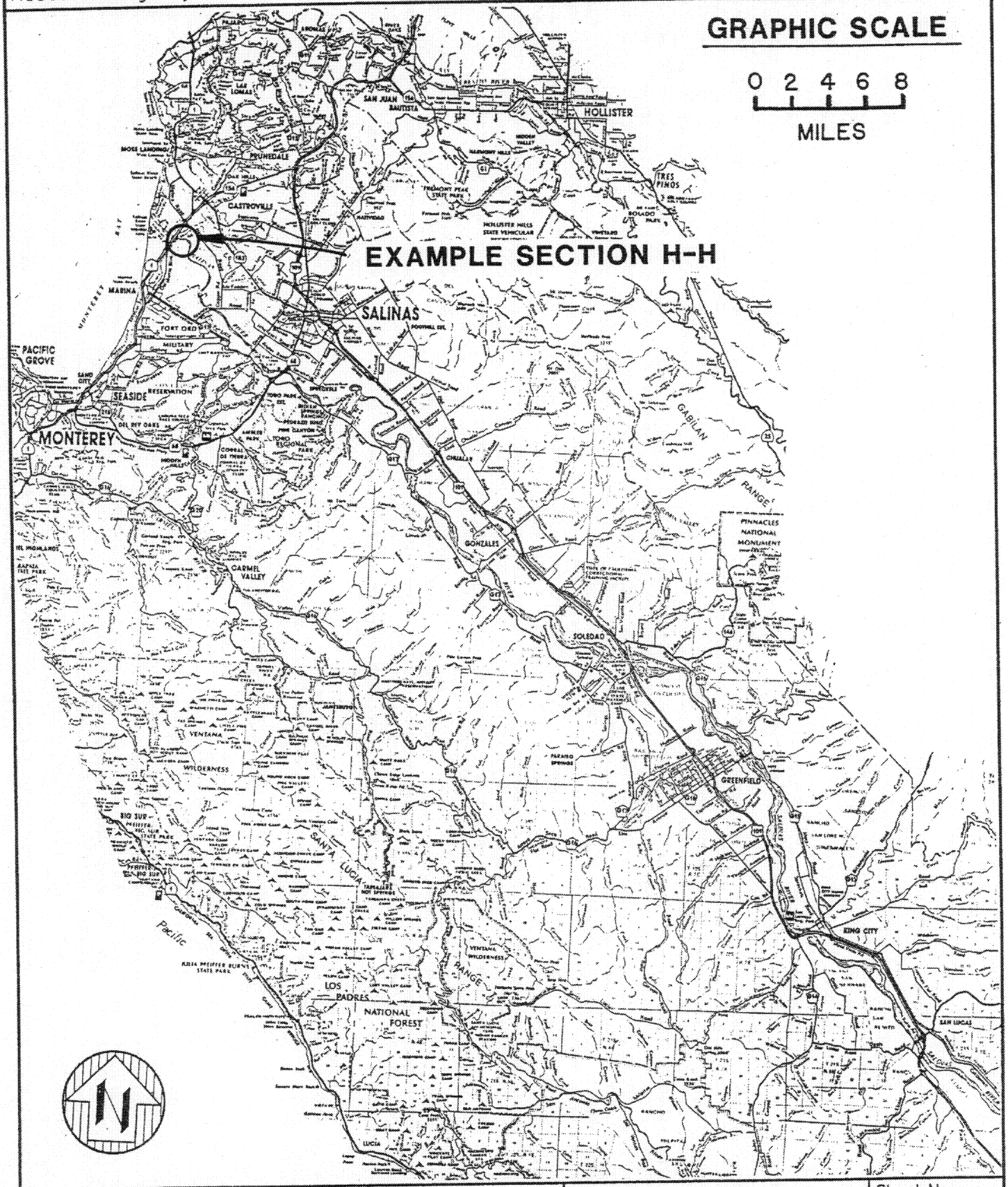

Location Map - Example Section H-H

Drawn By: LRM
Checked By: FP
Date: 07-05-96

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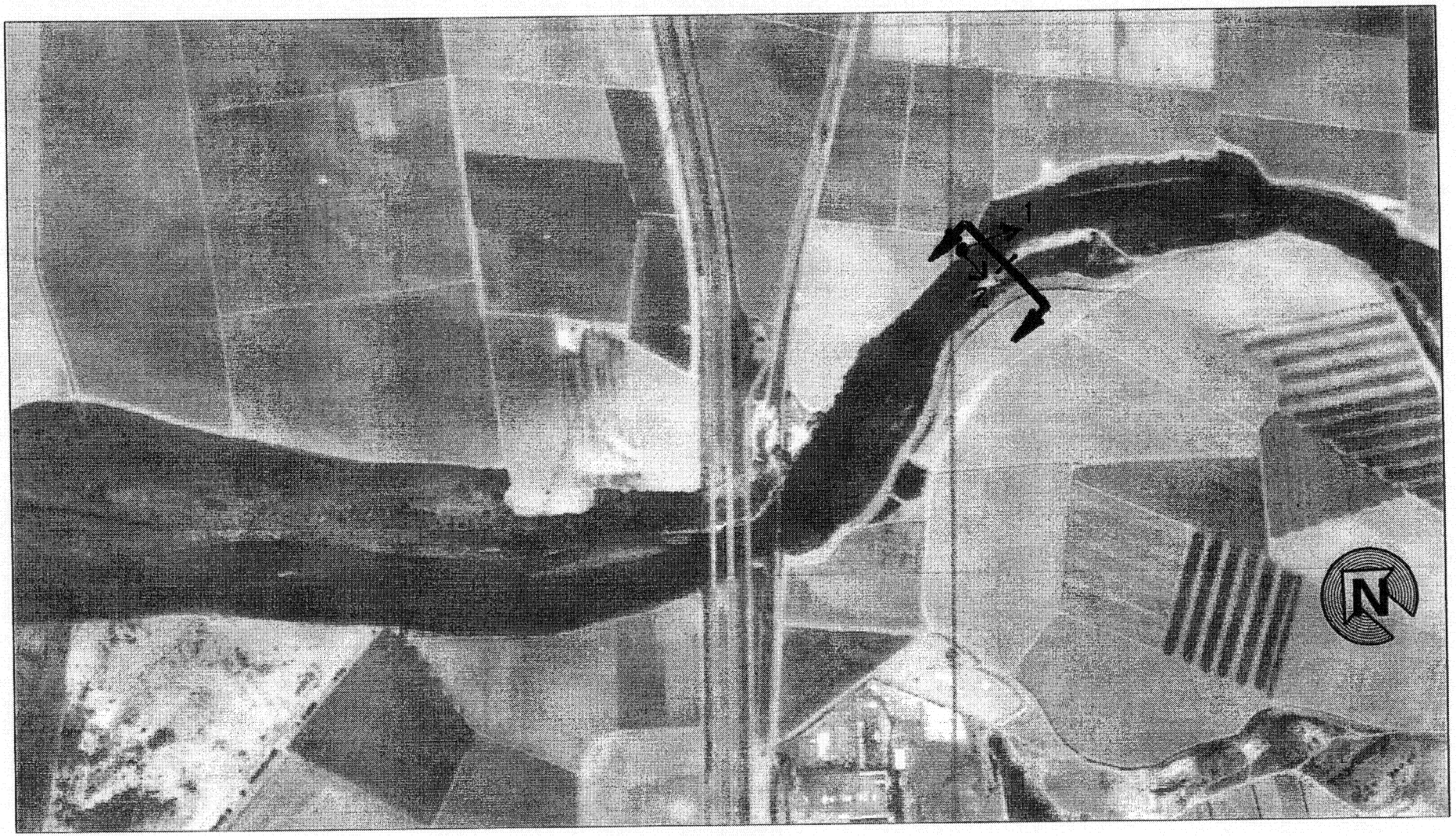

1000' 0' 1000'

SCALE: 1"=1000'

SCALE APROXIMATE:
PICTURE ADJUSTED FROM
NON-RECTIFIED PHOTO

L&P FILE: 276aer-h.dgn

Site Plan Photo
Example Section H-H

Photo Provided by:
Monterey County Water
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Photo #50039 06-10-96

Drawn By: LRM
Checked By: FP
Date: 07-08-96

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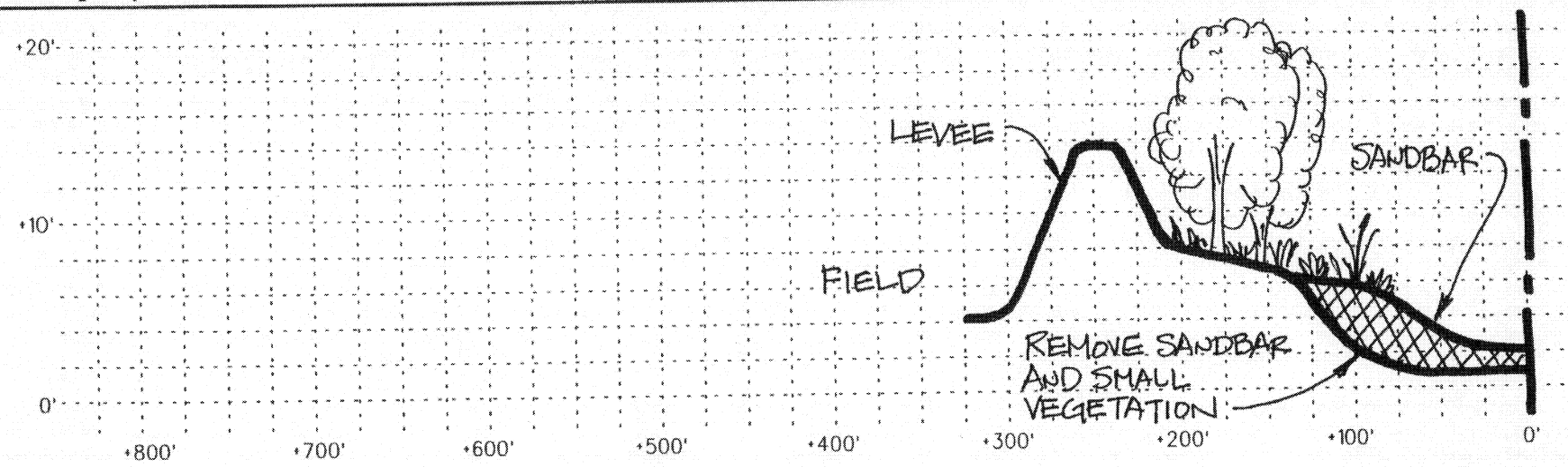
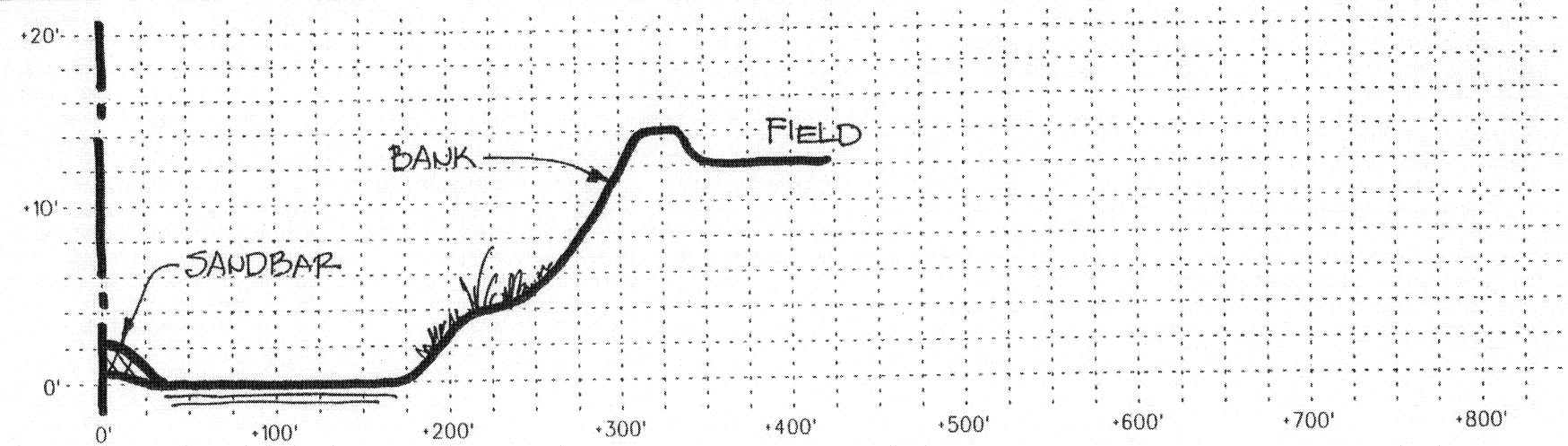


Left Bank

LOOKING DOWNSTREAM

SCALES: HORIZ. - 1"=100'
VERT. - 1"=10'



SCALES: HORIZ. - 1"=100'
VERT. - 1"=10'

LOOKING DOWNSTREAM

Right Bank

L&P FILE: 276examp.dgn

River Section & Elevations

Example Section
H-H

Drawn By: LRM
Checked By: FP
Date: 07-05-96

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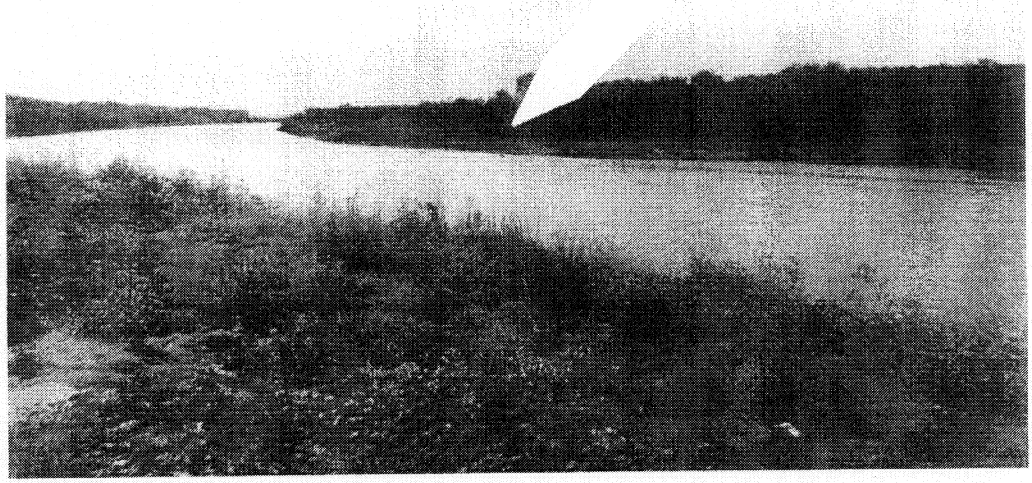

Photo #1

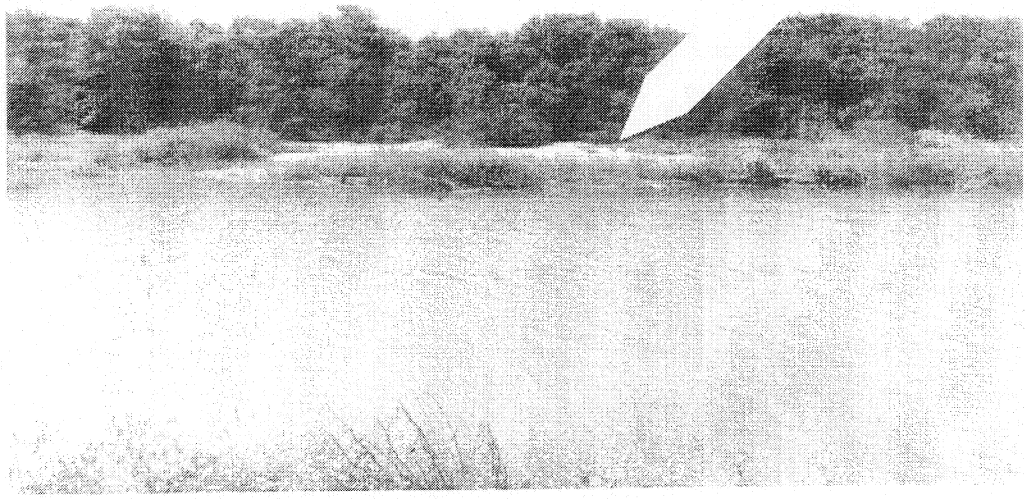

Photo #2

L&P FILE: 276pic-h.dgn

Photo Sheet - Example Section H-H

Drawn By: LRM
Checked By: FP
Date: 07-08-96

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SECTION H-H DESCRIPTION

Photographs of Section H-H were taken approximately 2500-feet upstream from the Highway 1 bridge. It is typical of the lower reaches of the river that are influenced by water levels in the Salinas River lagoon. Standing water is always present and its level will fluctuate depending upon releases through the Old Salinas River channel. Both sides of the river are mostly lined with levees constructed by the Corps of Engineers during the 1950's. These levees generally contain the river from Highway 1 upstream to the Highway 68 bridge. Lack of channel maintenance through the last few decades has allowed the development of sandbars which in turn have often become heavily vegetated. Photo Number 1 is looking upstream across the channel to the left bank. The arrow points to a sandbar that has been increasing in size for several years. Increasing vegetation is noted that soon will become a major restriction in the channel. Photo Number 2 is looking across the river channel to the left bank. The arrow points to a newly formed sandbar and emerging vegetative cover.

Proposed work in the portion of the channel would be limited to sandbar removal/relocation for those areas greater than 9-inches above standing water. Vegetation removal and thinning would be conducted as part of this work as long as it meets limitations identified by California Department of Fish and Game Streambed Alteration Agreements.

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