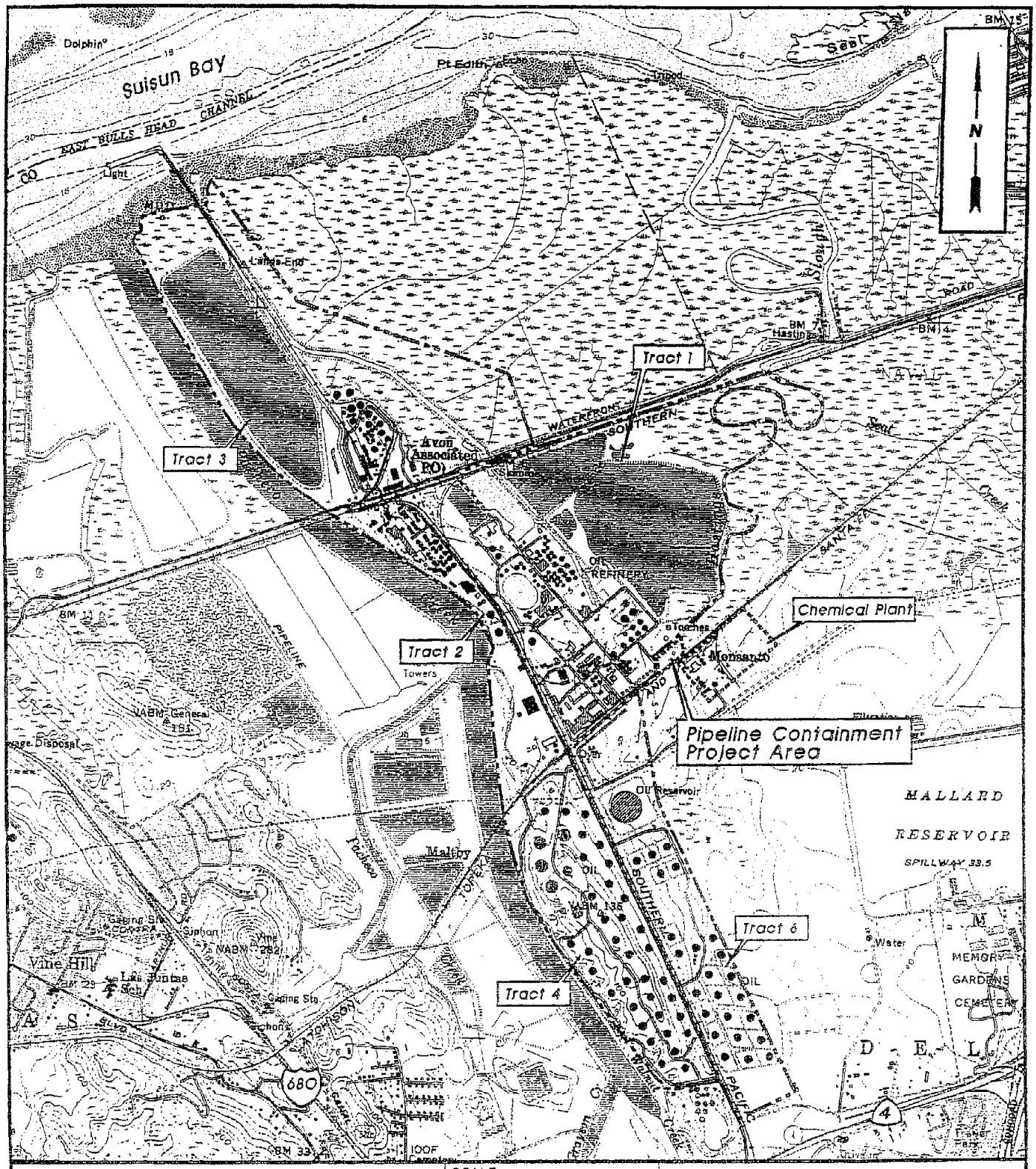


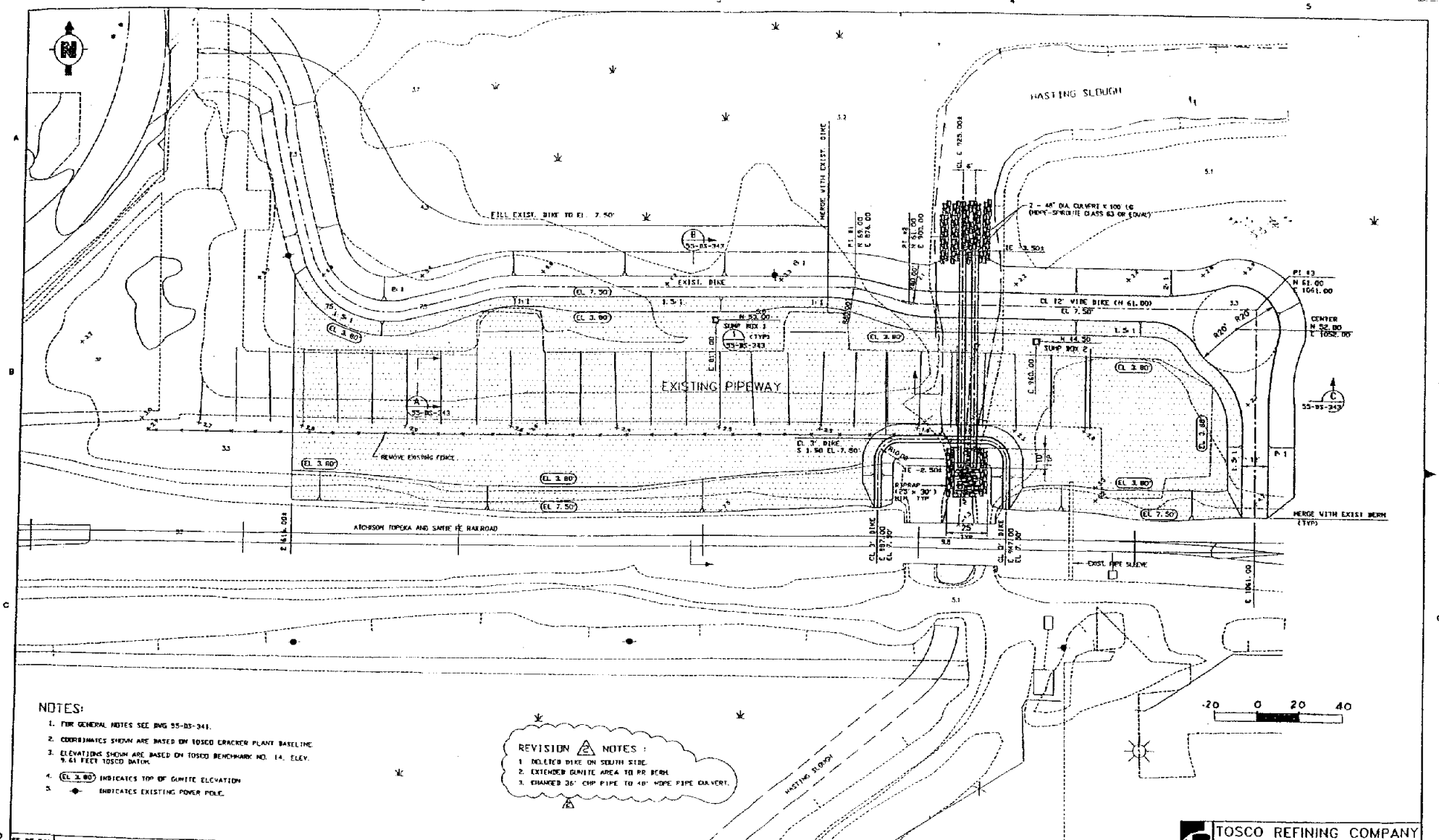
MONTGOMERY WATSON

SOURCE: U.S.G.S. 7.5' QUAD SHEET
VINE HILL, CALIFORNIA
PHOTOREVISED 1980

SCALE: 0 FEET 2500
SCALE

SITE LOCATION MAP

CLIENT: ULTRAMAR INC. GOLDEN EAGLE REFINERY	DATE: 11/8/00
LOCATION: MARTINEZ, CALIFORNIA	FIGURE: 1



NOTES:

1. FOR GENERAL NOTES SEE DWG 55-DS-341.
2. COORDINATES SHOWN ARE BASED ON TOSCO CRACKER PLANT BASELINE
3. ELEVATIONS SHOWN ARE BASED ON TOSCO BENCHMARK NO. 14. ELEV. 9.61 FEET TOSCO DATUM
4. (EL. 3.80) INDICATES TOP OF GUNITE ELEVATION
5. ⊕ INDICATES EXISTING POWER POLE.

REVISION (2) NOTES :

1. DELETED DIKE ON SOUTH SIDE.
2. EXTENDED GUNITE AREA TO RR BERM.
3. CHANGED 36" CMP PIPE TO 48" HDPE PIPE CULVERT.

DWG. NO.	TITLE
55-DS-341	SITE PLAN
55-DS-343	GRADING SECTIONS AND DETAILS

REFERENCE DRAWINGS

REV.	DATE	DESCRIPTION	E.S.R.	CHK.	APPR.
2	03/17/00	SEE REVISION (2) NOTES			
1	02/04/00	REVISED & RE-ISSUED FOR CONSTRUCTION			
0	01/11/00	ISSUED FOR CONSTRUCTION			

REVISIONS

SCALE: 1"=20'-0"
DATE: 04/18/00
DR. RLS
CK.
E.S.R.
W.O./A.F.E.

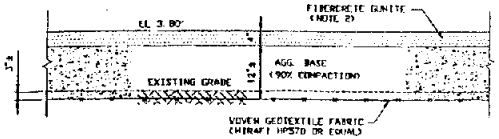
TOSCO REFINING COMPANY
SFAR-AVON REFINERY MARTINEZ, CA.

GRADING PLAN
HASTING SLOUGH CONTAINMENT PROJECT

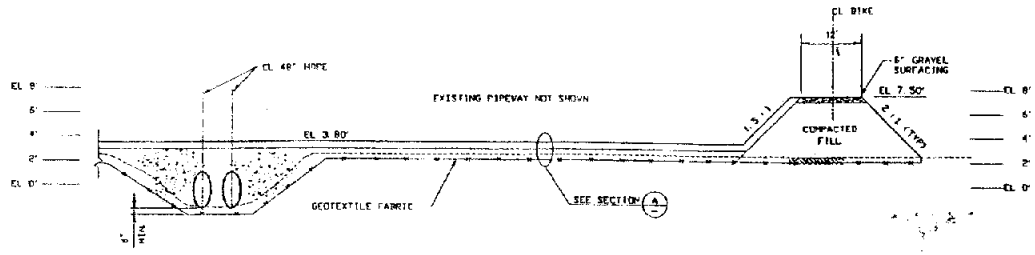
PLANT 55 CLASS 5 TRACT 1
APPROVED
DWG NO. 55-DS-342 SHT. 1 OF 1 REV. 2

TO BID _____ TO CONTR. _____ TO FIELD _____

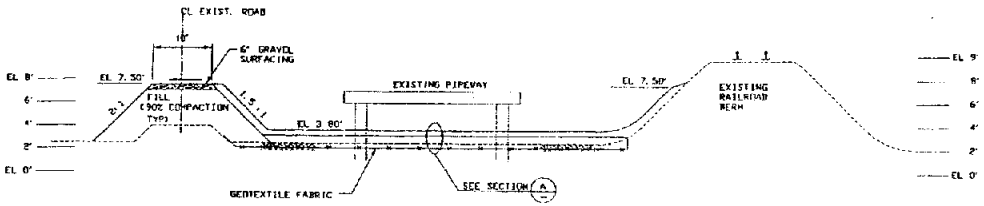
FIG. 2



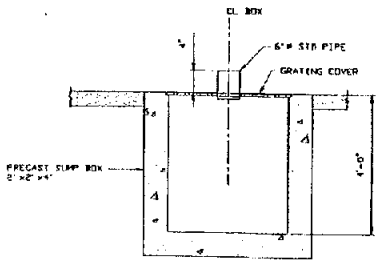
TYP. SECTION A 55-DS-342
NTS



SECTION C 55-DS-342
NTS



SECTION B 55-DS-342
NTS



DETAIL 1 55-DS-342 (2 - REQUIRED)
NTS

NOTES:

1. FOR GENERAL NOTES SEE DRAWING 55-DS-341.
2. LOCATE CONTROL JOINTS AT 12'-0" MAXIMUM SPACING IN BOTH DIRECTIONS IN CONCRETE GUNITE. SEE DETAIL "CC" ON TOSCO STANDARD 9-30-115.

DWG. NO.	TITLE
55-DS-341	SITE PLAN
55-DS-342	GRADING PLAN

REFERENCE DRAWINGS

REV.	DATE	DESCRIPTION	E.S.R.	BY	CHK.	APPR.
2	03/17/00	SEE REVISION 2 NOTES ON DWG 55-DS-342		RLS		
1	02/04/00	REVISED & RE-ISSUED FOR CONSTRUCTION		RLS		PB
0	01/11/00	ISSUED FOR CONSTRUCTION		RLS		

REVISIONS

SCALE: NONE
DATE: 04FEB00
DR. RLS
CE
E.S.R.
W.O./A.F.E.

TO BID _____ TO CONTR. _____ TO FIELD _____

TOSCO REFINING COMPANY
SFAR-AVON REFINERY MARTINEZ, CA.

GRADING SECTIONS AND DETAILS
HASTING SLOUGH CONTAINMENT PROJECT

PLANT 55 CLASS 5 TRACT 1

APPROVED

DWG. NO. 55-DS-343 SHT. 1 OF 1 REV. 2

FIG. 3

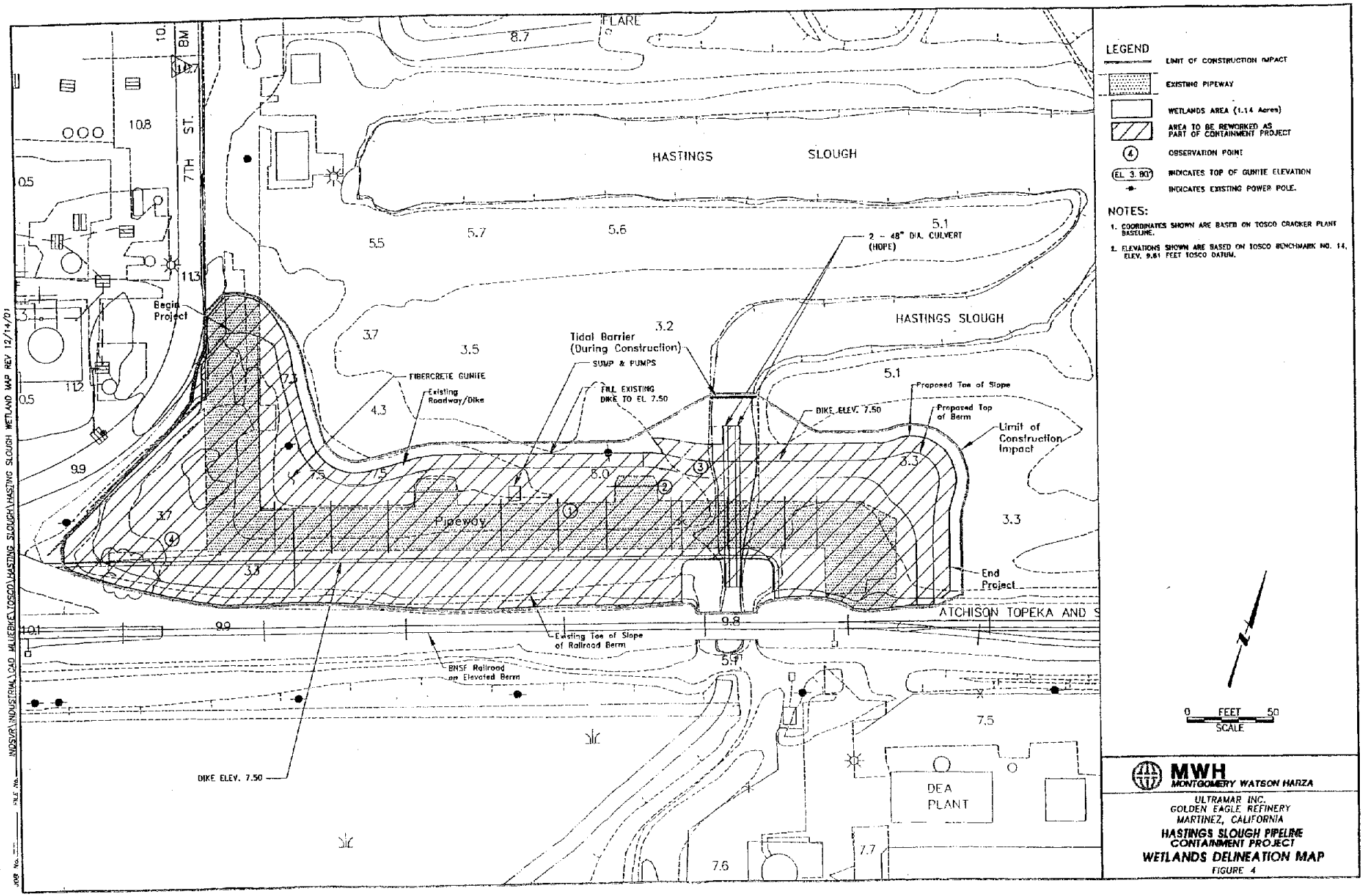
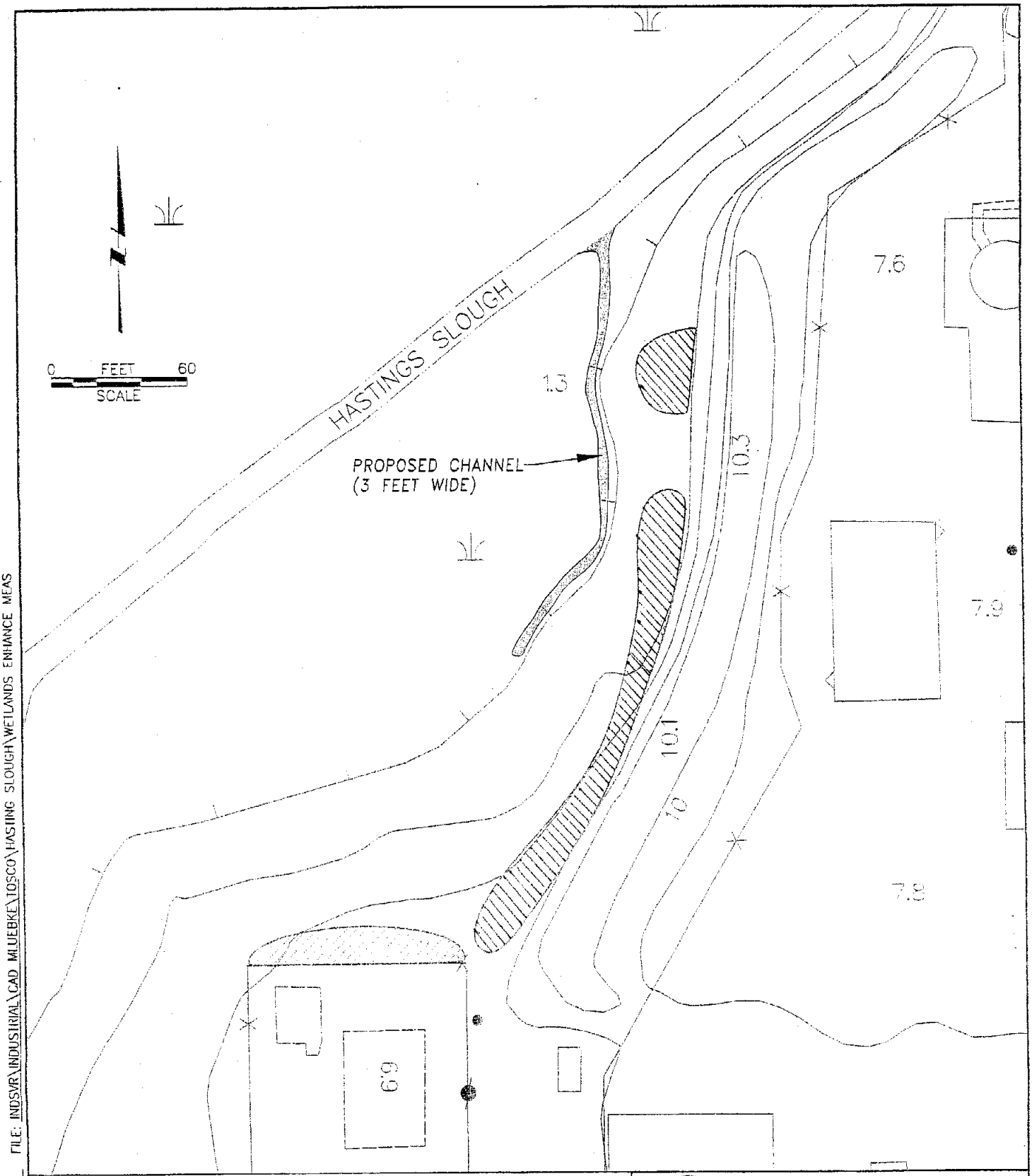

LEGEND
LIMIT OF CONSTRUCTION IMPACT
EXISTING PIPEWAY
WETLANDS AREA (1.14 Acres)
AREA TO BE REWORKED AS PART OF CONTAINMENT PROJECT
OBSERVATION POINT
INDICATES TOP OF GUNITE ELEVATION
INDICATES EXISTING POWER POLE.
NOTES:
1. COORDINATES SHOWN ARE BASED ON TOSCO CRACKER PLANT BASELINE.
2. ELEVATIONS SHOWN ARE BASED ON TOSCO BENCHMARK NO. 14, ELEV. 9.61 FEET TOSCO DATUM.
0 FEET 50
SCALE
MWH
MONTGOMERY WATSON HARZA
ULTRAMAR INC.
GOLDEN EAGLE REFINERY
MARTINEZ, CALIFORNIA
HASTINGS SLOUGH PIPELINE CONTAINMENT PROJECT
WETLANDS DELINEATION MAP
FIGURE 4
HASTINGS SLOUGH
HASTINGS SLOUGH
FLARE
7TH ST.
BM
Begin Project
Pipeway
FIBERCRETE GUNITE
Existing Roadway/Dike
Tidal Barrier (During Construction)
SUMP & PUMPS
FILL EXISTING DIKE TO EL 7.50
2 - 48" DIA. CULVERT (HDPE)
DIKE ELEV. 7.50
Proposed Toe of Slope
Proposed Top of Berm
Limit of Construction Impact
End Project
ATCHISON TOPEKA AND S
Existing Toe of Slope of Railroad Berm
BNSF Railroad on Elevated Berm
DIKE ELEV. 7.50
DEA PLANT
INDSVR\INDUSTRIAL\CAD MLUEBKE\TOSCO\HASTING SLOUGH\HASTING SLOUGH WETLAND MAP REV 12/14/01

FIG. 4



LEGEND

PROPOSED PLANTING BERM

EXISITNG WILLOWS/COYOTE BRUSH

MWH
MONTGOMERY WATSON HARZA

ULTRAMAR INC.
GOLDEN EAGLE REFINERY
HASTINGS SLOUGH

WETLAND ENHANCEMENT MEASURES

FIG. 5

FILE: INDSVR\INDUSTRIAL\CAD MLUEBKE\TOSCO\HASTING SLOUGH\WETLANDS ENHANCE MEAS

JOB No.

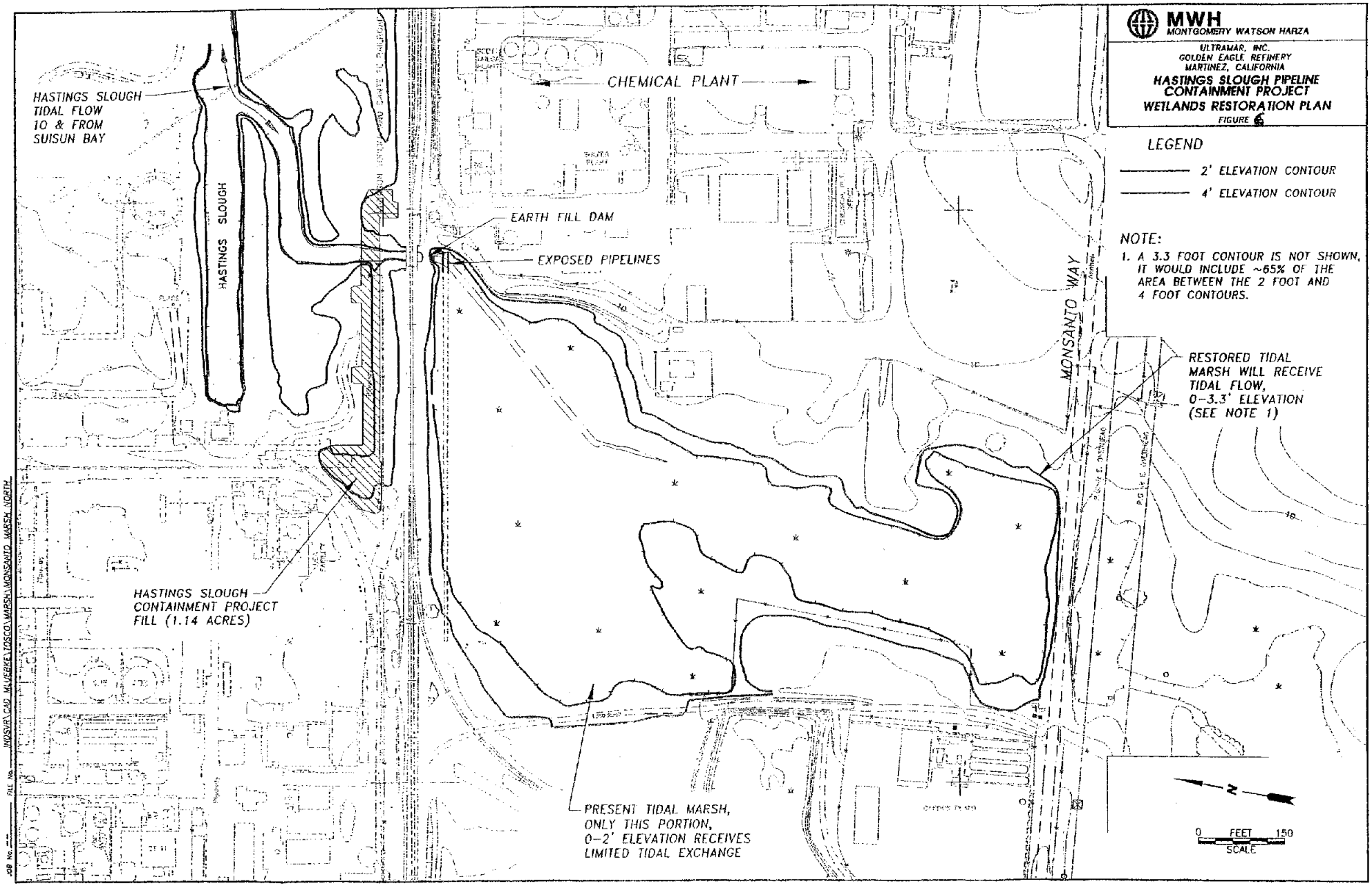

MWH
MONTGOMERY WATSON HARZA
ULTRAMAR, INC.
GOLDEN EAGLE REFINERY
MARTINEZ, CALIFORNIA
HASTINGS SLOUGH PIPELINE CONTAINMENT PROJECT
WETLANDS RESTORATION PLAN
FIGURE 6
LEGEND
2' ELEVATION CONTOUR
4' ELEVATION CONTOUR
NOTE:
1. A 3.3 FOOT CONTOUR IS NOT SHOWN, IT WOULD INCLUDE ~65% OF THE AREA BETWEEN THE 2 FOOT AND 4 FOOT CONTOURS.
HASTINGS SLOUGH TIDAL FLOW TO & FROM SUISUN BAY
HASTINGS SLOUGH
CHEMICAL PLANT
EARTH FILL DAM
EXPOSED PIPELINES
MONSANTO WAY
RESTORED TIDAL MARSH WILL RECEIVE TIDAL FLOW, 0-3.3' ELEVATION (SEE NOTE 1)
HASTINGS SLOUGH CONTAINMENT PROJECT FILL (1.14 ACRES)
PRESENT TIDAL MARSH, ONLY THIS PORTION, 0-2' ELEVATION RECEIVES LIMITED TIDAL EXCHANGE
N
0 FEET 150
SCALE
INDSVR\CAD MLUEBKE\TOSCO\MARSH\MONSANTO MARSH NORTH
FILE No.
JOB No.

FIG. 6

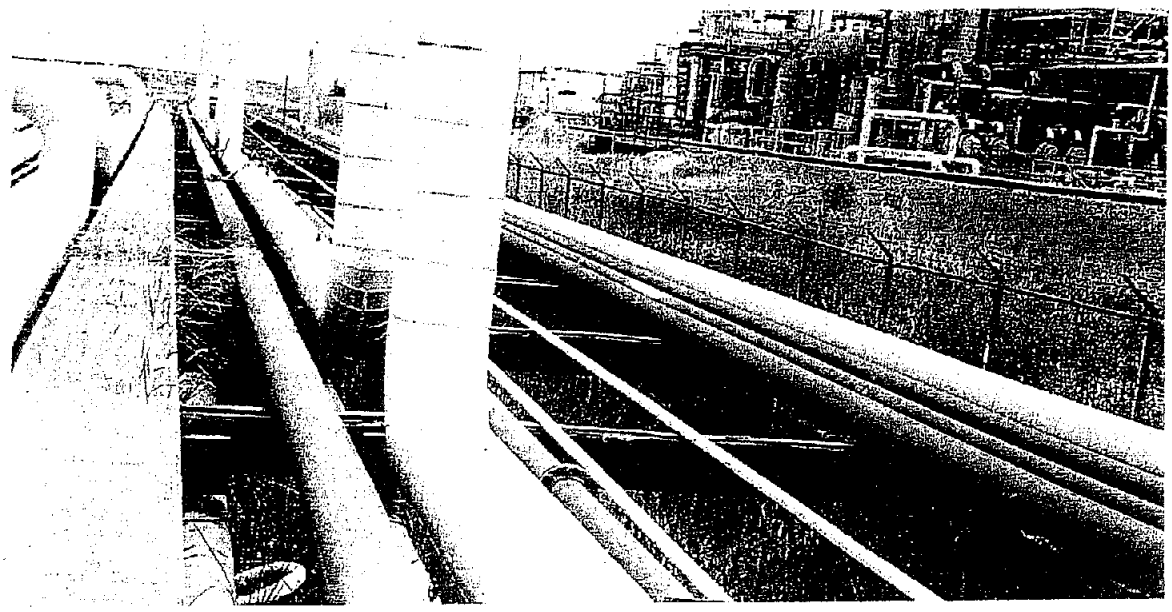


Photo A-1 Proposed construction area, pipeway along BNSF mainline

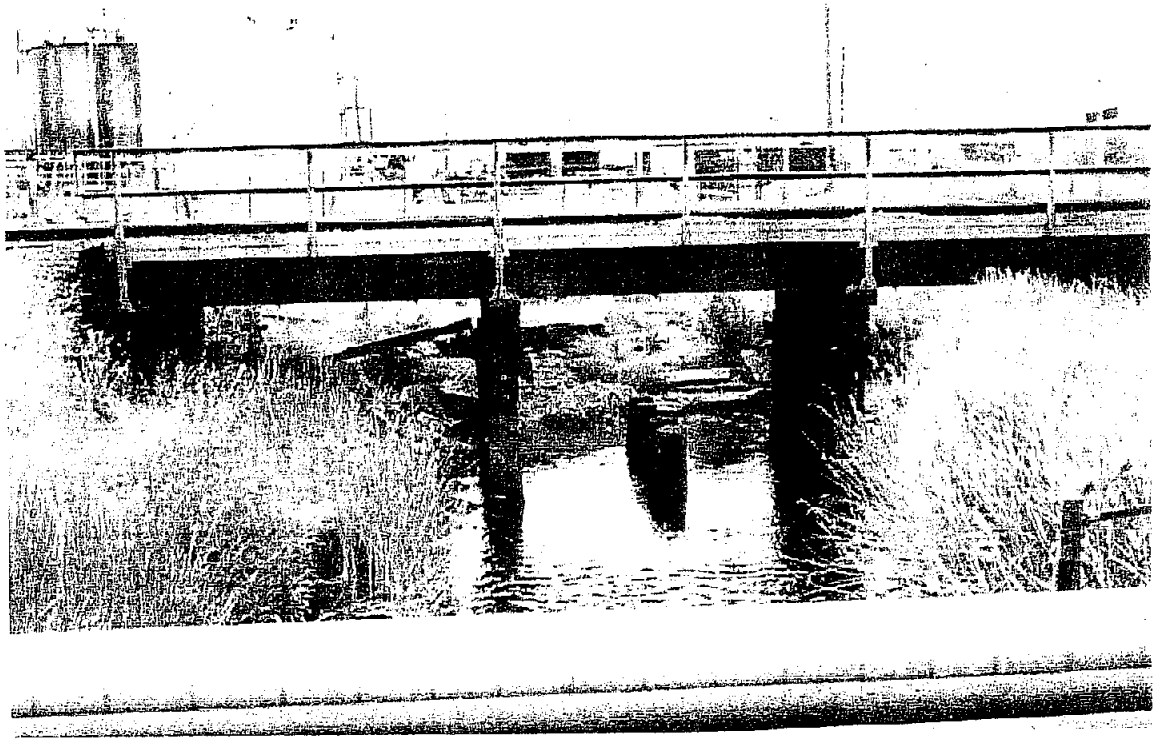


Photo A-2 Proposed location for culverts on Hastings Slough

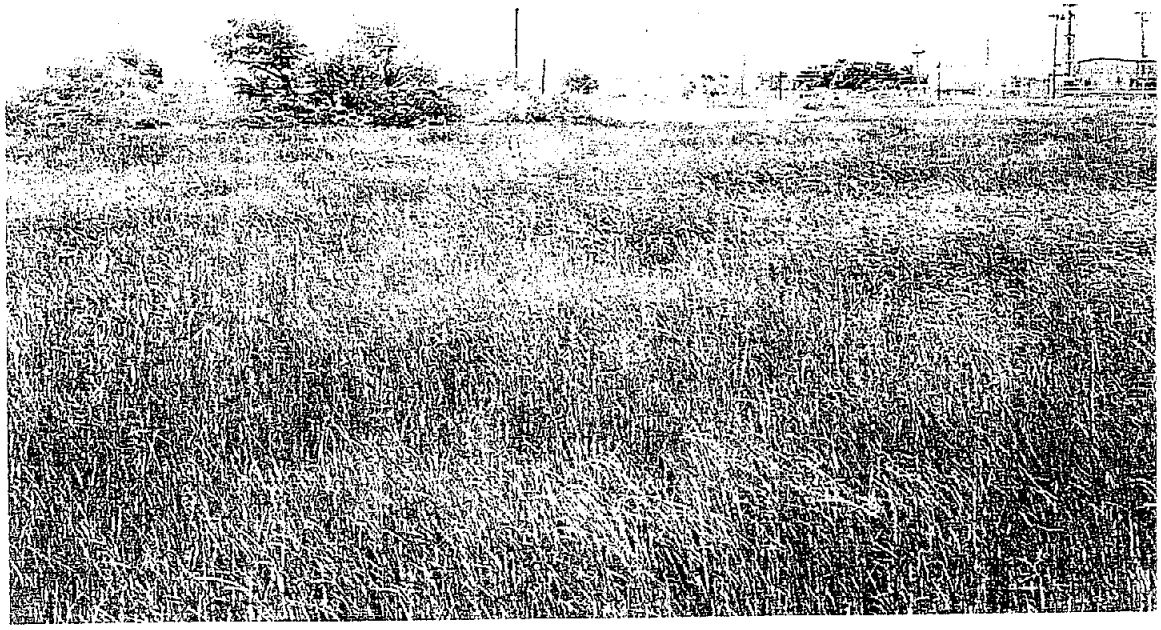


Photo A-3 Wetland restoration adjacent to proposed construction area.

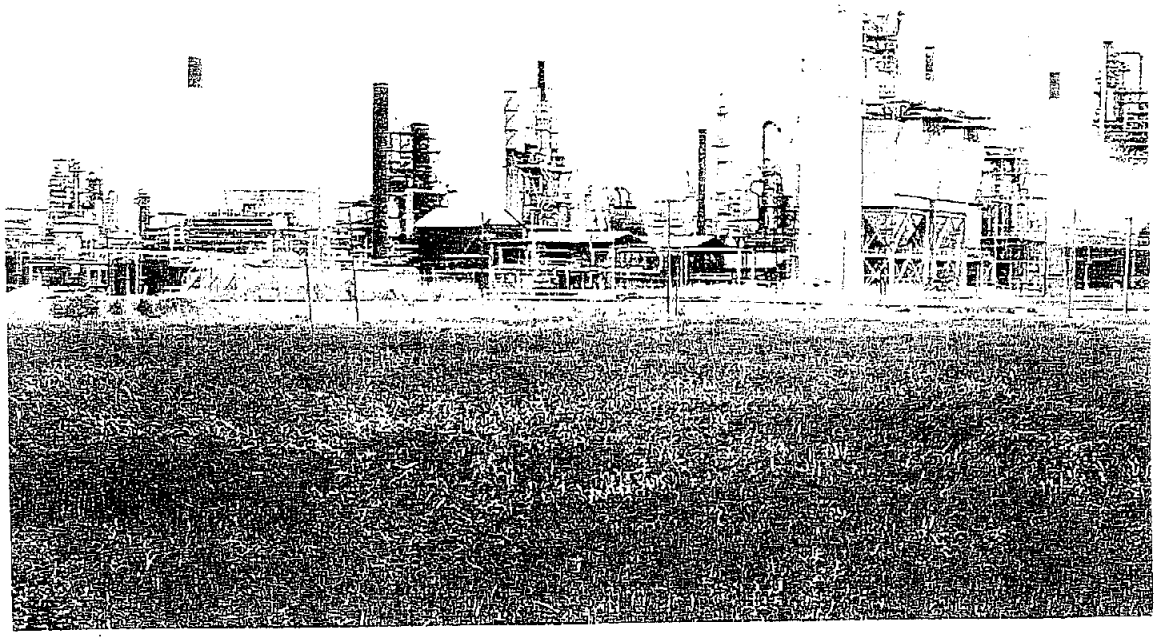


Photo A-4 Wetland restoration area, Ultramar refinery in background.