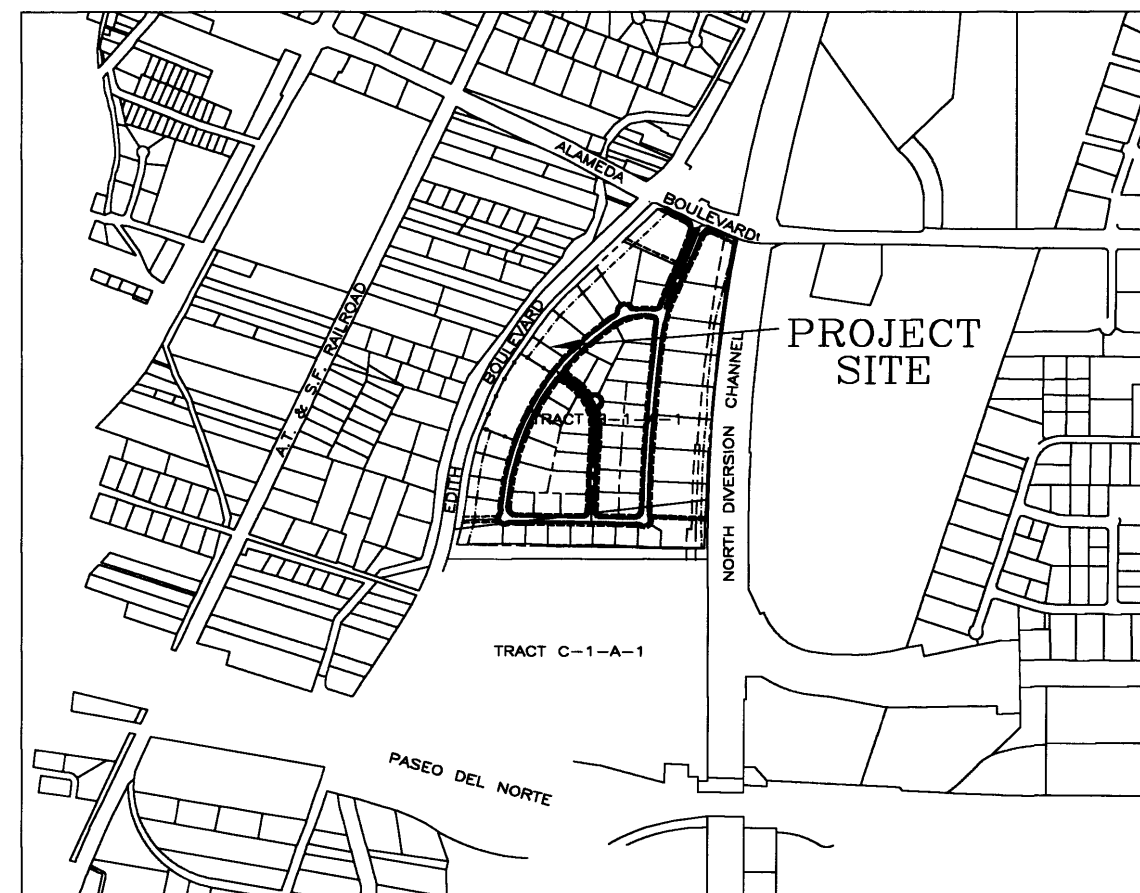
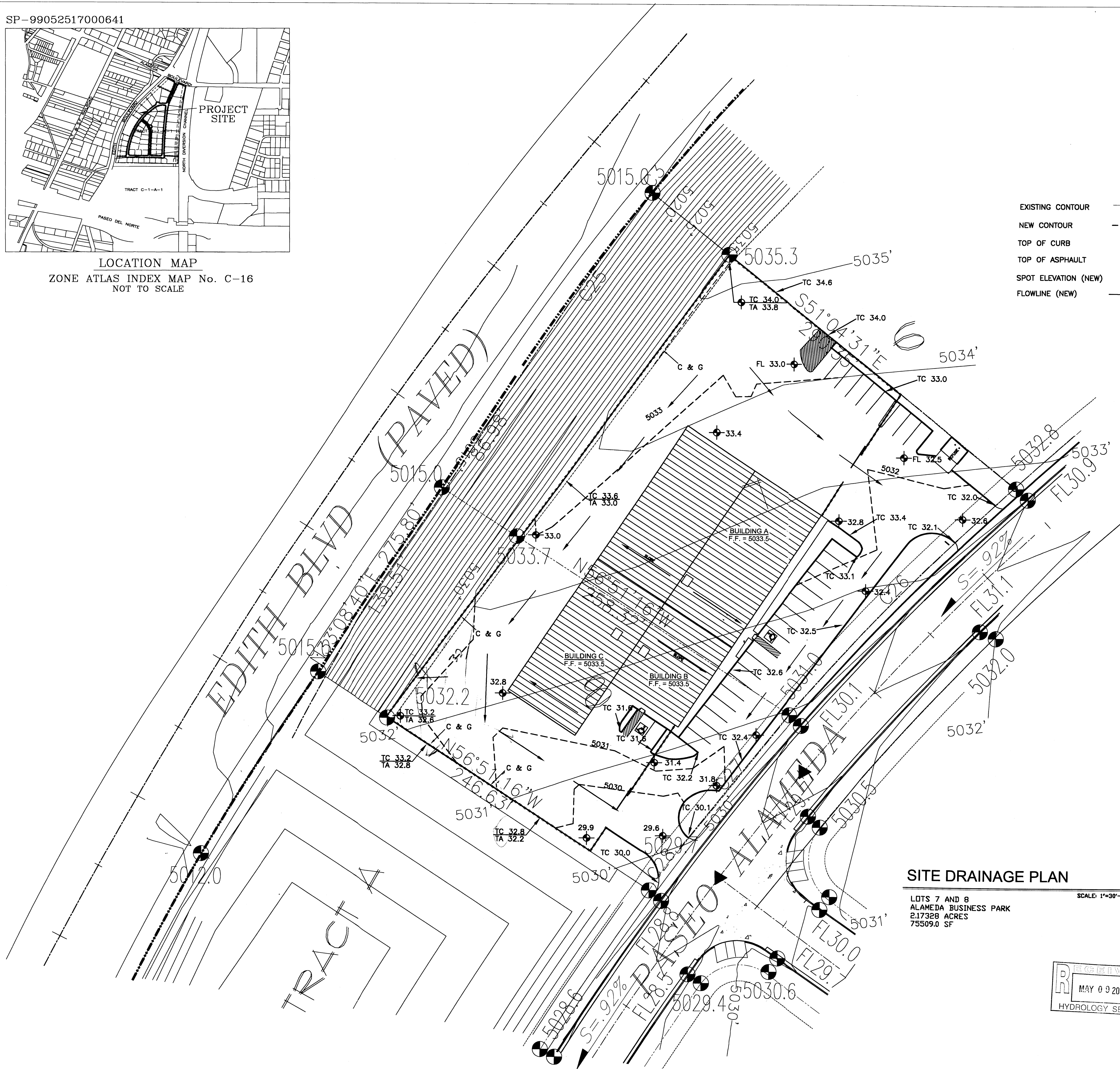


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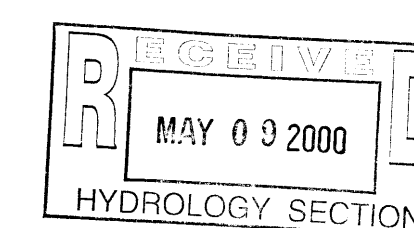
LOCATION MAP  
ZONE ATLAS INDEX MAP No. C-16  
NOT TO SCALE



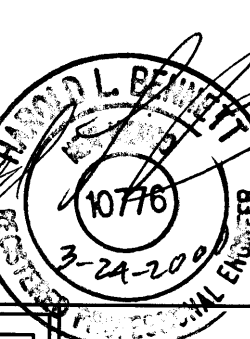
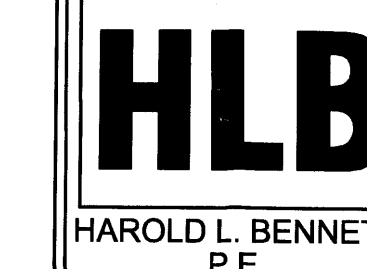
# SITE DRAINAGE PLAN

LOTS 7 AND 8  
ALAMEDA BUSINESS PARK  
2.17328 ACRES  
75509.8 SF

SCALE: 1"=30'-0"



NORTH



DESIGN COLLABORATIVE  
THE ART AND SCIENCE OF MODERN BUILDINGS

JOB TITLE: TC-OFFICE WAREHOUSE			
REVISION:	FILE NAME	JOB NO.	DATE
	TC-C1		2/8/00
SHEET TITLE: SITE DRAINAGE PLAN			DRAWN BY: JAH

**C-1**

TRI-STAR BUILDING AREA = 2.17328 ACRES  
ALAMEDA BUS. PARK  
ZONE 2  
PRECIPITATION: 360 = 2.35 IN.  
1440 = 2.78 IN.  
10DA = 3.95 IN.

EXISTING PRECIPITATION:	PEAK DISCHARGE:
TREATMENT A 1.56 CFS/AC.	1.56 CFS/AC.
TREATMENT B 0.78 IN.	2.28 CFS/AC.
TREATMENT C 1.13 IN.	3.14 CFS/AC.
TREATMENT D 2.12 IN.	4.70 CFS/AC.

EXISTING CONDITIONS:	PROPOSED CONDITIONS:
TREATMENT A 0 AC.	0 AC.
TREATMENT B 0 AC.	0 AC.
TREATMENT C 2.17 AC.	0.8054 AC.
TREATMENT D 0 AC.	1.3390 AC.

EXISTING EXCESS PRECIPITATION:  
WEIGHTED E = 0.53 (0.00) + 0.78 (0.00) + 1.13 (2.14) + 2.12 (0.00) / 2.14 AC.  
= 1.13 IN.  
V100 -360 = 1.13 (2.14) / 12 = 0.202 ACFT = 8778 CFS

EXISTING PEAK DISCHARGE:  
Q100 = 1.56 (0.00) + 2.28 (0.00) + 3.14 (2.14) + 4.70 (0.00)  
= 6.72 CFS

PROPOSED EXCESS PRECIPITATION:  
WEIGHTED E = 0.53 (0.00) + 0.78 (0.00) + 1.13 (0.25) + 2.12 (1.75) / 2.14 AC.  
= 1.45 IN.  
V100 -360 = 1.45 (2.14) / 12 = 0.280 ACFT = 11328 CFS  
V100 -1440 = 0.28 + 1.339 X (2.70 - 2.35) / 12 = 0.2991 ACFT = 13028 CFS  
V100 -1440 = 0.28 + 1.339 X (3.65 - 2.35) / 12 = 0.4151 ACFT = 17644 CFS

BENCHMARK:  
THE STATION IS LOCATED 0.35 MILES NORTH OF THE  
RICHFIELD ROAD BRIDGE OVER THE AMAFCA NORTH  
DIVERSION CHANNEL.  
STATION IS AMAFCA BRASS TABLET STAMPED "NDC 7-1A"  
SET ON A CONCRETE POST PROJECTED 0.3 FEET ABOVE GROUND  
ELEVATION: 5053.10

- EROSION CONTROL MEASURES
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGEMENT OF STORM RUN-OFF DURING CONSTRUCTION. HE/SHE SHALL ASSURE THAT THE FOLLOWING MEASURES ARE TAKEN:  
1. ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY TEMPORARY BERMS, DIKES, SWALES, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUN-OFF FROM LEAVING THE SITE AND ENTERING ADJACENT PROPERTY.  
2. ADJACENT PUBLIC RIGHT-OF-WAY SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUN-OFF FROM THE SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER THE PUBLIC STREETS.
  2. THE CONTRACTOR SHALL IMMEDIATELY AND THOROUGHLY REMOVE SEDIMENT WITHIN THE PUBLIC STREETS THAT HAVE BEEN ERODED FROM THE SITE AND DEPOSITED THERE.

GRADING/DRAINAGE PLAN  
THE FOLLOWING ITEMS CONCERNING LOT 7 & 8 ALAMEDA BUSINESS PARK ARE CONTAINED HEREON:

1. VICINITY MAP
2. DRAINAGE CALCULATIONS

EXISTING CONDITIONS  
AS SHOWN BY THE VICINITY MAP, THE SITE CONTAINS 2.17328 ACRES AND IS LOCATED SOUTH OF ALAMEDA BLVD. JUST SOUTH OF WHERE ALAMEDA PARK DRIVE NW AND PASEO ALAMEDA NW COME TOGETHER. THE SITE HAS BEEN GRADED TO DRAIN FROM NORTH TO SOUTH. ACCORDING TO THE FLOOD INSURANCE RATE MAP PANEL 01360, DATED SEPTEMBER 20, 1996, THE SITE IS NOT LOCATED WITHIN A DESIGNATED FLOOD ZONE.

PROPOSED CONDITIONS  
AS SHOWN BY THE GRADING/DRAINAGE PLAN, THE PROJECT WILL CONSIST OF THREE OFFICE/WAREHOUSE BUILDINGS TOTALING 17,801 SQ. FT. ALONG WITH ASSOCIATED PAVED PARKING AND LANDSCAPED AREAS. A MASTER DRAINAGE PLAN WAS PREPARED BY BOHANNAN-HOUSTON IN FEBRUARY OF 1999. ON-SITE RUN-OFF WILL TRAVEL ON PASEO ALAMEDA AND INTO INLETS WHICH DRAIN INTO A COMMON POND PROVIDED BY THE MASTER DRAINAGE PLAN (TRACT A). THE CALCULATIONS WHICH APPEAR HEREON, ANALYZE THE EXISTING AND PROPOSED CONDITIONS FOR THE 100-YEAR, 6-HOUR EVENT. THE PROCEDURE FOR 40 ACRES AND SMALLER BASINS, AS SET FORTH IN THE REVISION OF SECTION 22.2 HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL VOLUME II, DESIGN CRITERIA DATED 1997, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUN-OFF GENERATED.

DOWN STREAM CONDITIONS  
PER THE APPROVED MASTER DRAINAGE PLAN, FREE DISCHARGE HAS BEEN ALLOWED INTO A COMMON POND PROVIDED BY THE ALAMEDA BUSINESS PARK MASTER DRAINAGE PLAN.



LAS CRUCES, NM