



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

December 21, 1995

J. Bordenave
Bordenave Designs
P.O. Box 91194
Albuquerque, NM 87199

RE: ENGINEER CERTIFICATION FOR PHASE III WOLFE OFFICES
(F22-D20A) CERTIFICATION STATEMENT DATED 12/14/95.

Dear Mr. Bordenave:

Based on the information provided on your December 18, 1995
submittal, Engineer Certification for the above referenced site
is acceptable.

Please be advised that the final Certificate of Occupancy release
will not be issued until our office receives concurrence from
AMAFCA for the work done within their Right-of-Way.

If I can be of further assistance, please feel free to contact me
at 768-2667.

Sincerely,

Bernie J. Montoya, CE
Engineering Associate

BJM/dl

c: Andrew Garcia
File



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 17, 1995

Jake Bordenave
Bordenave Designs
P.O. Box 91191
Albuquerque, NM 87199

RE: REVISED DRAINAGE PLAN FOR PHASE III WOLFE CO. OFFICE
(F22-D20A) REVISION DATED 4/3/95.

Dear Mr. Bordenave:

Based on the information provided on your March 3, 1995 resubmittal, the above referenced site is approved for Building Permit.

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Also, prior to Certificate of Occupancy release, Engineer Certification per the D.P.M. checklist will be required.

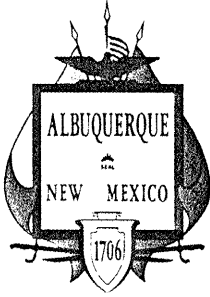
If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,

Bernie J. Montoya
Bernie J. Montoya, CE
Engineering Associate

BJM/dl

c: Andrew Garcia
File



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

December 7, 1992

Jake Bordenave
Bordenave Designs
P.O. Box 91194
Albuquerque, NM 87199

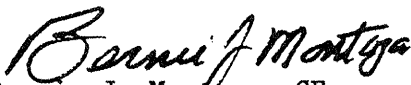
RE: ENGINEER CERTIFICATION FOR PHASE II WOLFE CO. OFFICE (F22-D20A)
CERTIFICATION STATEMENT DATE 11/30/92.

Dear Mr. Bordenave:

Based on the information provided on your Engineer Certification for the above referenced site, Engineer Certification is acceptable for Phase II construction.

If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,


Bernie J. Montoya, CE
Engineering Assistant

BJM/d1/WPHYD/7375

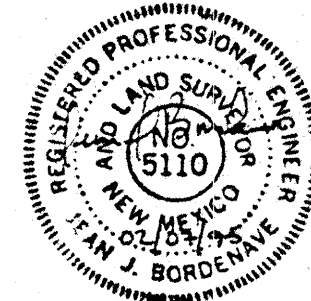
xc: Alan Martinez
File

PUBLIC WORKS DEPARTMENT

I, JEAN J. BORDENAVE, HEREBY CERTIFY THAT ON
DECEMBER 11/1995
THE
AS-BUILT INFORMATION SHOWN ON THIS SHEET WAS
OBTAINED UNDER MY SUPERVISION AND THAT THE
AS-BUILT DRAINAGE CONDITIONS ARE IN SUBSTANTIAL
COMPLIANCE WITH THE APPROVED GRADING
AND DRAINAGE PLAN.

JEAN J. BORDENAVE, PE & PS # 5110

TBM
TC 58.15E
FL 57.45E

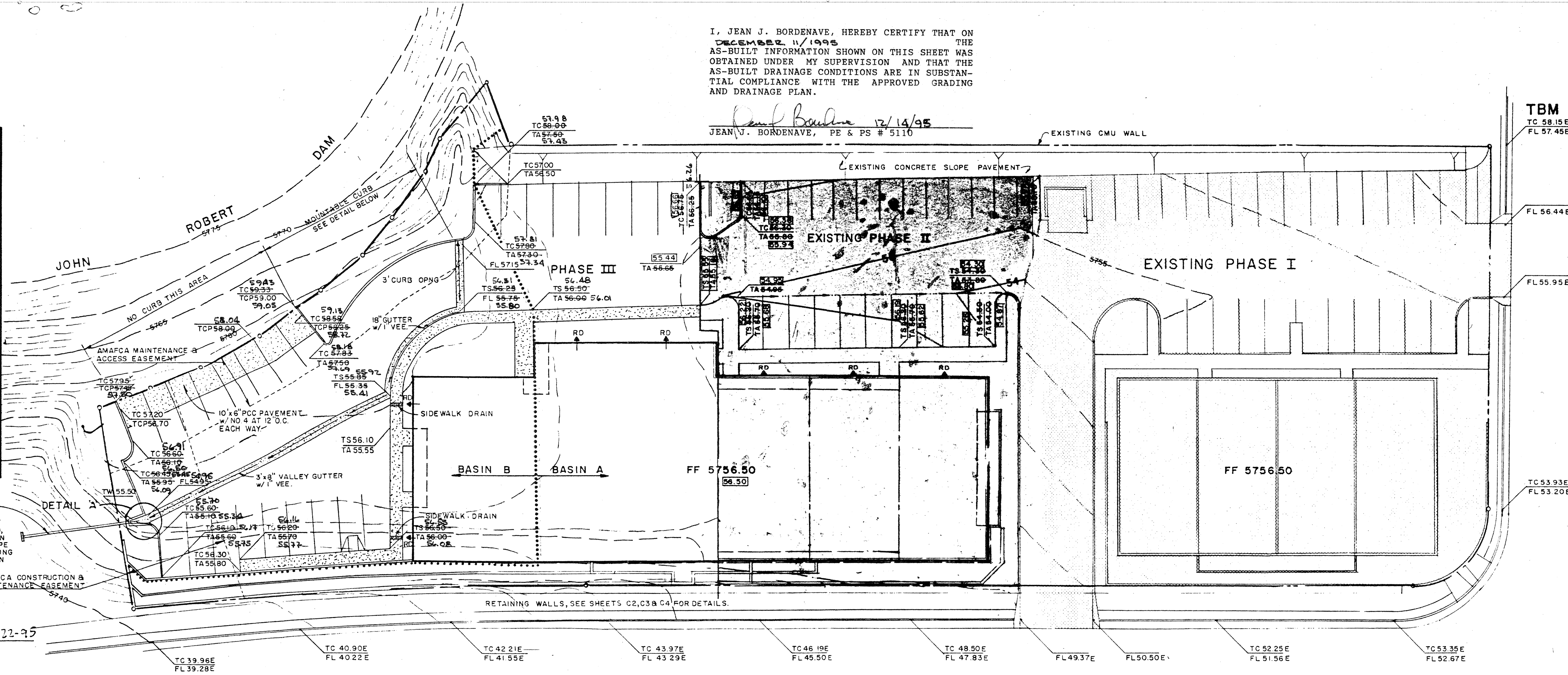


- CONSTRUCTION NOTES:**
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM 260-1990 FOR LOCATION OF EXISTING UTILITIES.
 - PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
 - ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
 - ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.
- EROSION CONTROL MEASURES:**
- THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AT THE PROPERTY LINES AND NETTING THE SOIL TO KEEP IT FROM WEEING.
 - THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
 - THE CONTRACTOR SHALL SECURE TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING CONSTRUCTION.
- NOTES**
- 12" CMP RUNDOWN w/ CONC HEADWALL (3'x3'x8') & EROSION CONTROL PAD AT OUTLET INLET INV 54.00, OUTLET INV 40.80. EROSION CONTROL PAD TO USE TYPE VL RIPRAP (3' WIDE X LONG X 1" THICK) & CONSTRUCTION OPTION 1 SHOWN BELOW.
- AMAFCA CONSTRUCTION & MAINTENANCE EASEMENT

AMAFCA APPROVAL

BY: *[Signature]*

DATE: 2-22-95

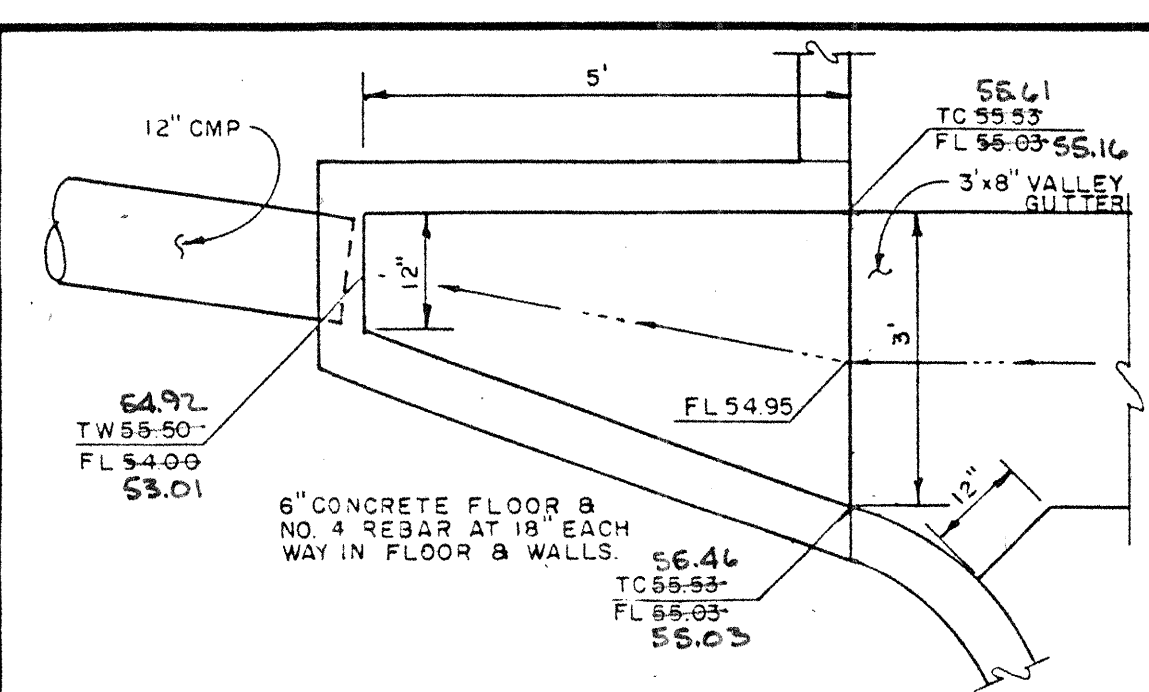
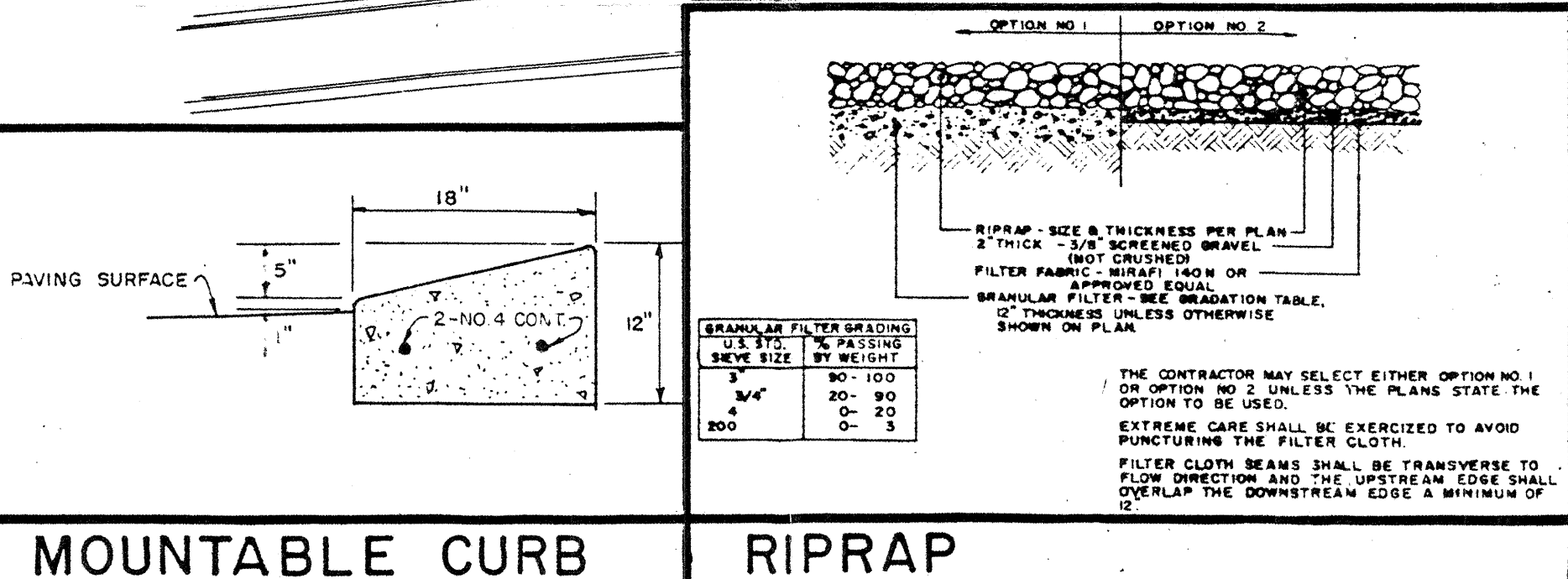


- LEGEND**
- TCP TOP OF CONCRETE
 - TBM TEMPORARY BENCH MARK
 - FF FINISH FLOOR
 - FG FINISH GRADE
 - FL FLOW LINE
 - TA TOP OF ASPHALT
 - TC TOP OF CURB
 - TP TOP OF PAD
 - TS TOP OF SIDEWALK
 - TW TOP OF WALL
 - FH FIRE HYDRANT
 - MH MAN HOLE
 - PP POWER POLE
 - RD ROOF DRAIN
 - PED POWER OR TEL. PEDESTAL
 - WV WATER VALVE
 - EXISTING CONTOUR
 - PROPOSED CONTOUR
 - XX.XE EXISTING ELEVATION
 - XX.X PROPOSED ELEVATION
 - XX.X AS-BUILT ELEVATION

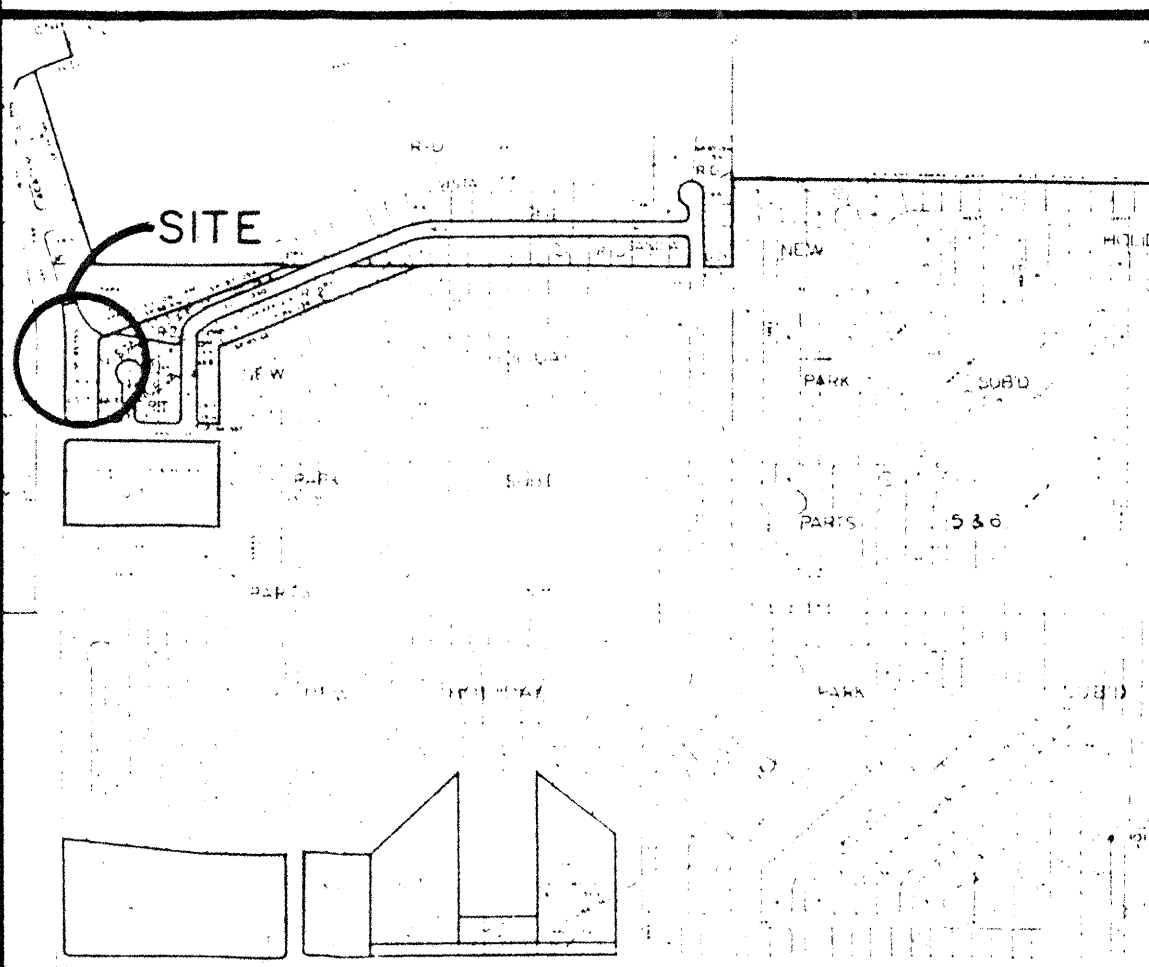
JUAN TABO BOULEVARD

GRADING PLAN

1" = 20'



DETAIL 'A'



VICINITY MAP F-22

CONDITION	STORM RETURN PERIOD	TREATMENT TYPE	TREATMENT AREA	EXCESS PRECIPITATION	PEAK RUNOFF	RUNOFF VOLUME	RUNOFF RATE
	year	(TABLE 4)	sq. ft.	in.	cfs/acre	cu. ft.	cfs
EXISTING	10	B	5560	0.46	1.45	213	0.19
		C(on)	22610	0.73	2.26	1375	1.19
		D	32815	1.69	3.57	4621	2.69
		SUB	60985			6209	4.05
		C(off)	8710	0.73	2.26	530	0.45
		TOTAL	69695			6739	4.50
PROPOSED	10	B	5560	1.08	2.92	500	0.37
		C(on)	22610	1.46	3.73	2751	1.94
		D	32815	2.64	5.25	7219	3.95
		SUB	60985			10470	6.26
		C(off)	8710	1.46	3.73	1060	0.75
		TOTAL	69695			11530	7.01
PROPOSED	10	B	5960	0.46	1.45	228	0.20
		C(on)	42865	1.69	3.57	6037	3.51
		D	48825			6265	3.71
		SUB	5960			536	0.40
		C(off)	42865	2.64	5.25	9430	5.17
		TOTAL	48825			9966	5.57
PROPOSED	10	B	1310	0.46	1.45	50	0.04
		C(on)	1410	0.73	2.26	86	0.07
		D	9440	1.69	3.57	1329	0.77
		SUB	12160			1465	0.88
		C(off)	8710	0.73	2.26	530	0.45
		TOTAL	20870			1995	1.33
PROPOSED	100	B	1310	1.08	2.92	118	0.09
		C(on)	1410	1.46	3.73	172	0.12
		D	9440	2.64	5.25	2076	1.14
		SUB	12160			2366	1.35
		C(off)	8710	1.46	3.73	1060	0.75
		TOTAL	20870			3426	2.10

- Basin A of the fully developed site drains to Juan Tabo Blvd via the parking lot and existing driveway.
- Basin B of the fully developed site drains to AMAFCA property to be used as irrigation water. CURB OPENING - WEIR
 $Q = CLH^{1.5}$
where $Q = 2.10$ cfs, $C = 2.8$, $H = 0.45'$
therefore $L = 2.48$ ft. USE 3 ft.
RUNDOWN PIPE - ORIFICE
 $Q = CA(2gh)^{0.5}$
where $Q = 2.10$ cfs, $C = 0.6$, $H = 0.5'$
therefore $A = 0.62$ sf, $r = 0.44'$
USE 12" CMP
- The site is not located in a designated Flood Hazard area per FEMA FHM No. 18, dated 10/14/83.
- The proposed project is the final phase on a multiphase project (F22/D20A).

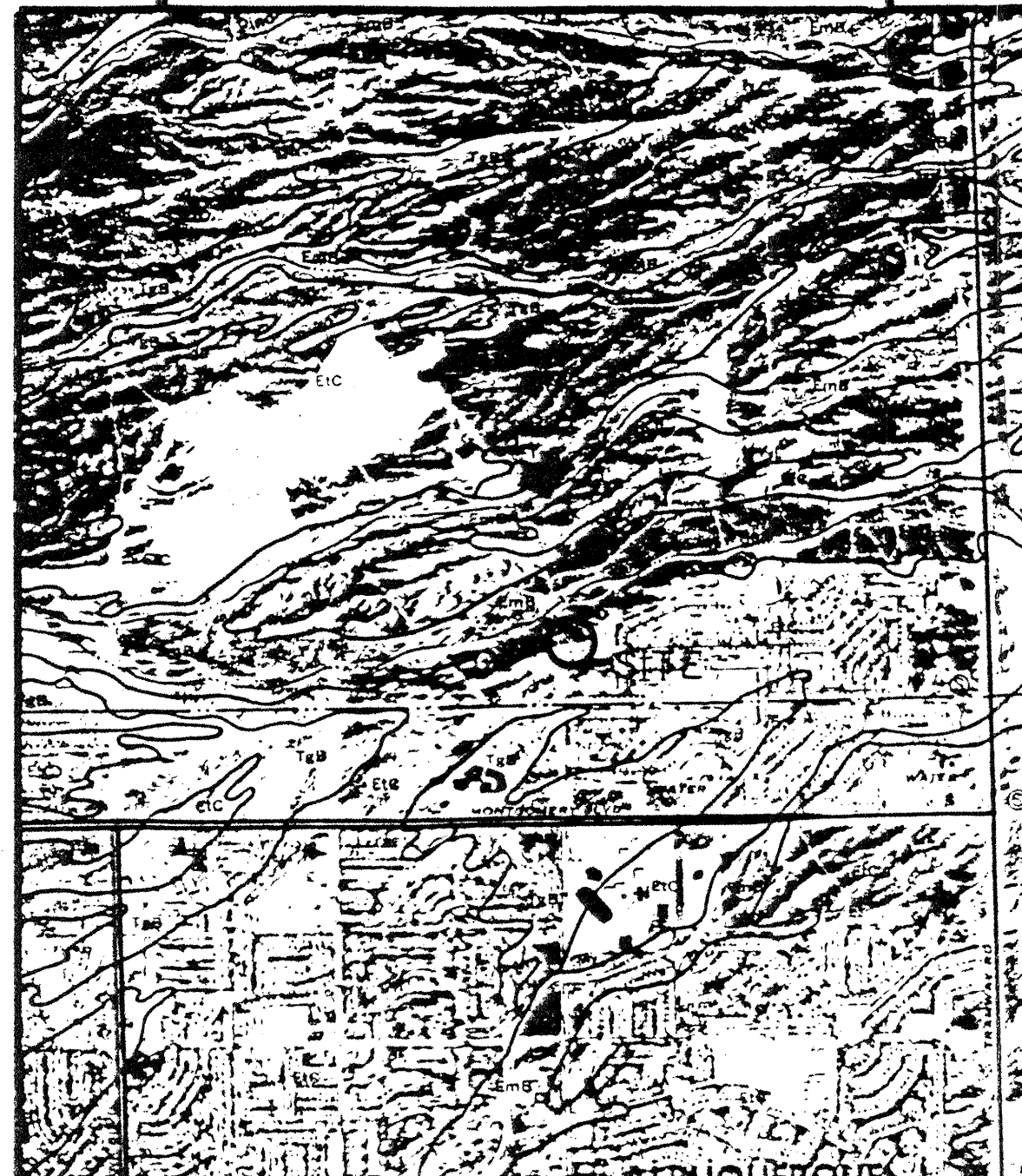
DRAINAGE DATA

ACS 6-F22 Elev. 5835.56
Concrete nail and shiner @ top of curb on east side of Danube Dr., approximately 120 feet south of the intersection with Baja Dr.

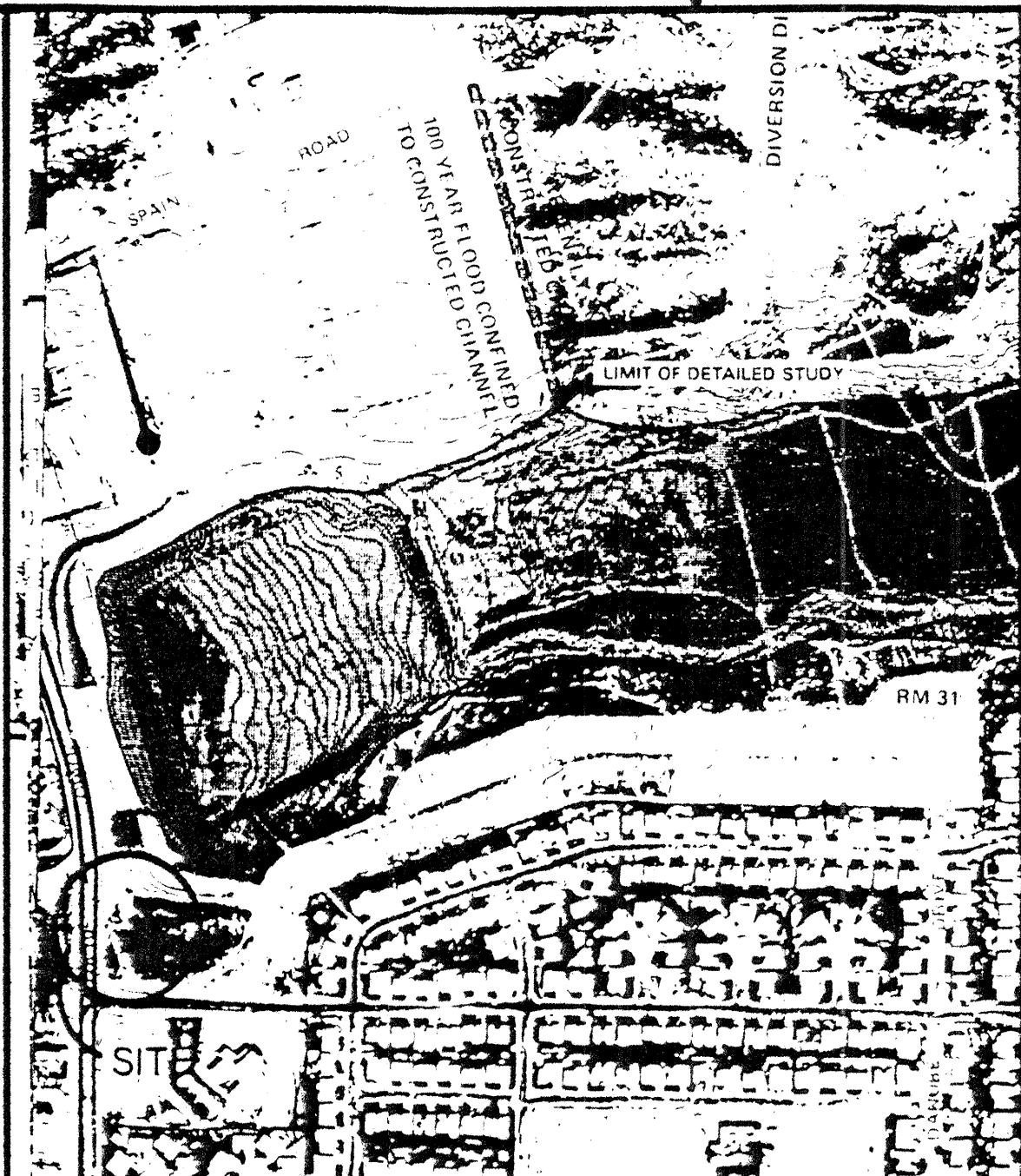
BENCHMARK

Tract A-1, VISTA NUEVA

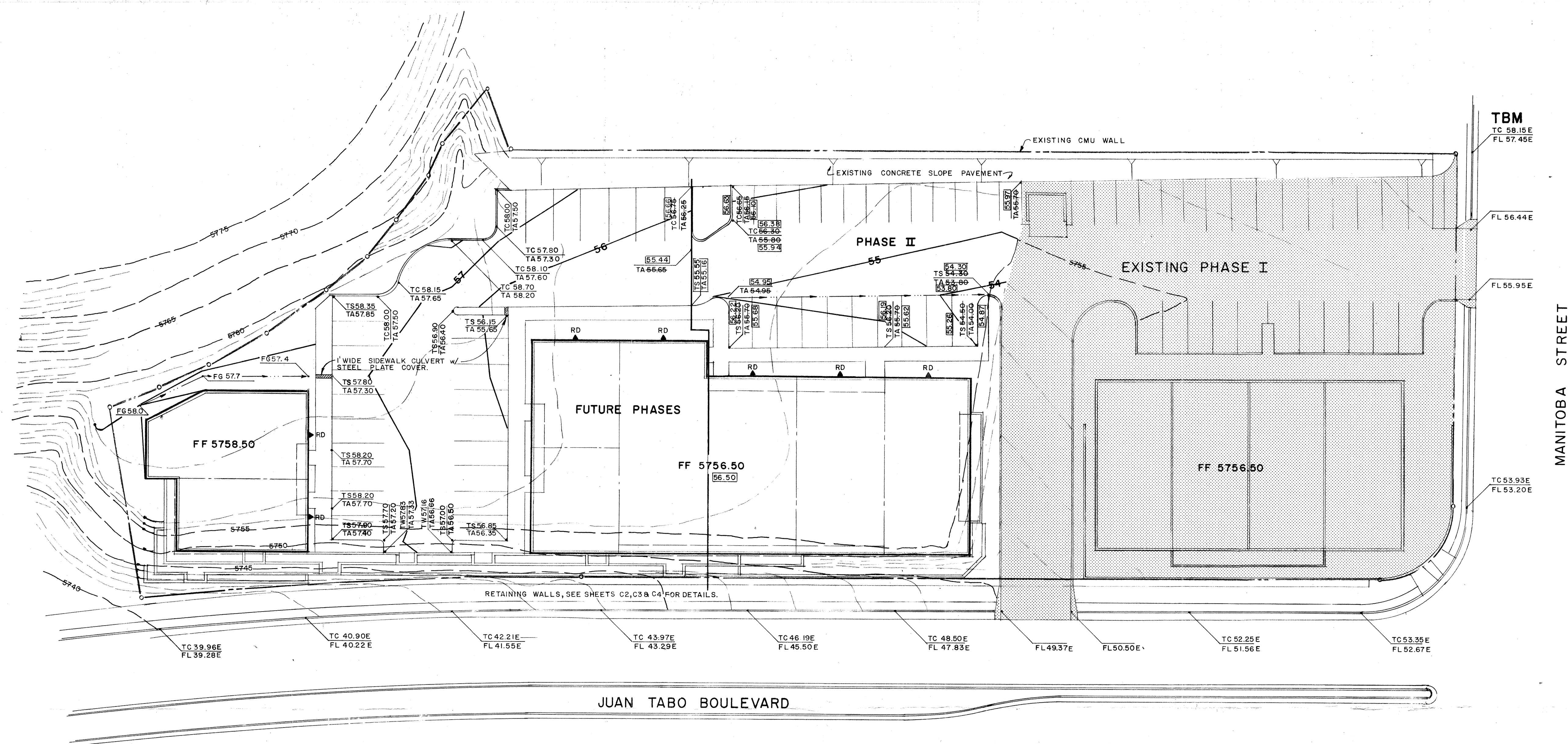
LEGAL DESCRIPTION



SCS SOILS MAP NO. 22



FEMA FHBM PANEL 18



TBM	TEMPORARY BENCH MARK
FF	FINISH FLOOR
FG	FINISH GRADE
FL	FLOW LINE
TA	TOP OF ASPHALT
TC	TOP OF CURB
TP	TOP OF PAD
TS	TOP OF SIDEWALK
TW	TOP OF WALL
FH	FIRE HYDRANT
MH	MAN HOLE
PP	POWER POLE
RD	ROOF DRAIN
PED	POWER OR TEL. PEDESTAL
WV	WATER VALVE
---	EXISTING CONTOUR
---	PROPOSED CONTOUR
xx.x	EXISTING ELEVATION
xx.x	PROPOSED ELEVATION
xx.x	AS-BUILT ELEVATION

GRADING PLAN

1"=20' N

I, JEAN J. BORDENAVE, HEREBY CERTIFY THAT THE AS-BUILT ELEVATIONS SHOWN IN PHASE II WERE OBTAINED 11/21/92 AND THAT THE AS-BUILT DRAINAGE IS IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED GRADING AND DRAINAGE PLAN.

JEAN J. BORDENAVE
JEAN J. BORDENAVE NMPE & PS NO. 5110

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 - THE CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION.

OFFSITE
The site is protected from offsite flows by current development, with the exception of the northeast corner of the site which is impacted by a small offsite area. The contributing area is a portion of the face of the John Robert Dam. The contributing area is quite stable with little erosion. These flows will be accepted by the present phase of development and routed with the onsite flows.

$Q_{100} = (0.4)(5.4)(0.2) = 0.4 \text{ cfs}$

ONSITE
Per the approved Subdivision Drainage Report prepared by Andrews, Asbury and Robert and the approved site Grading Plan (F22-D20A, 11/09/89) the site is allowed free discharge. The attached grading plan has been prepared using that criteria.

Site Area = 1.4 Ac.
use C = 0.40 undeveloped & 0.80 developed
 $t_c = 10 \text{ min.}$
 $I = 5.4 \text{ in/hr, } R = 2.55 \text{ in.}$

Developed Flow	Undeveloped Flow
$Q_{100} = 6.05 \text{ cfs}$	$Q_{100} = 3.02 \text{ cfs}$
$V_{100} = 0.22 \text{ Ac Ft}$	$V_{100} = 0.12 \text{ Ac Ft}$

FLOOD HAZARD
As shown on the attached FHM the site is not located in a designated flood zone.

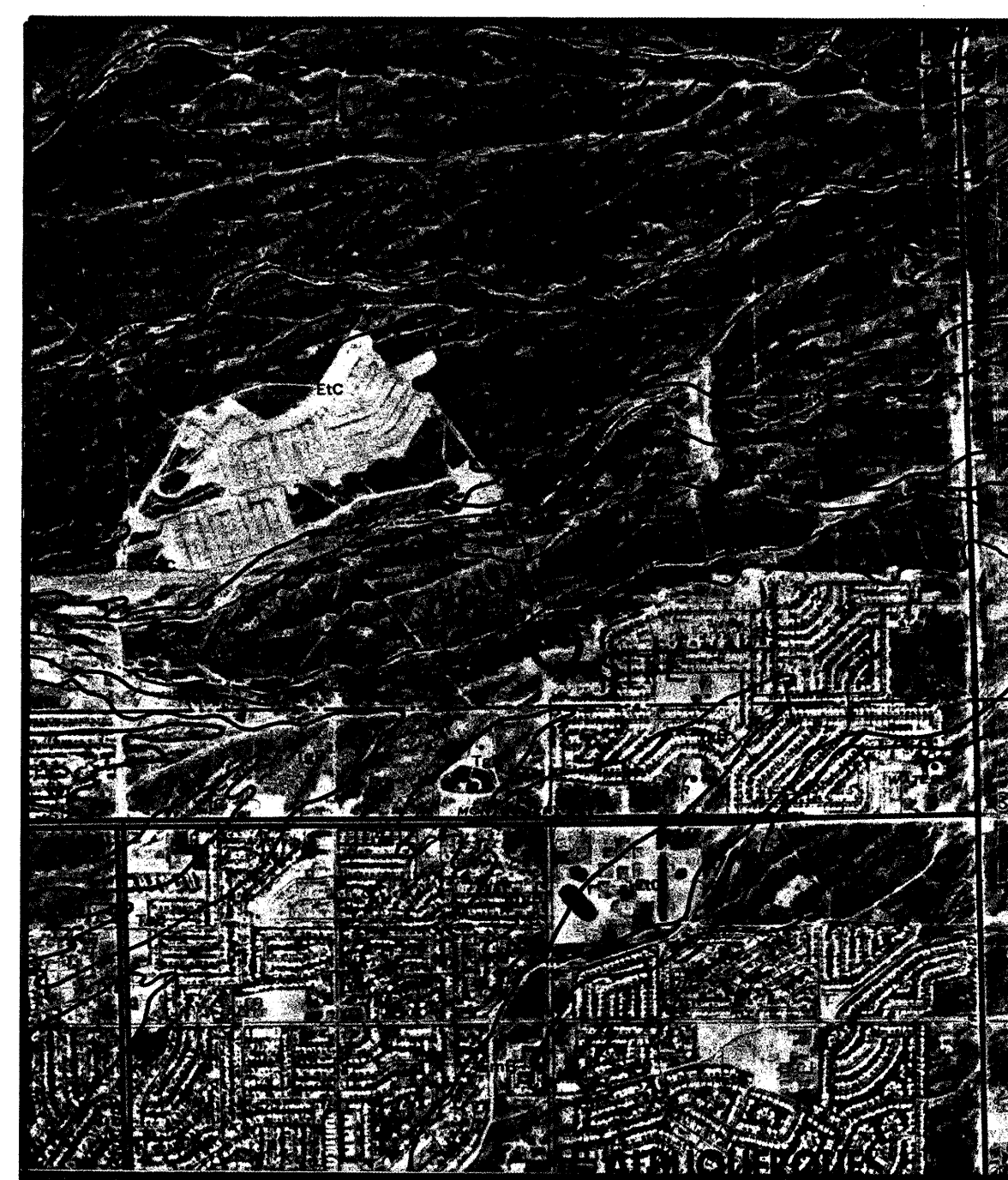
DRAINAGE DATA

ACS 6-F22 Elev. 5835.56
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BENCHMARK

Tract A-1, VISTA NUEVA

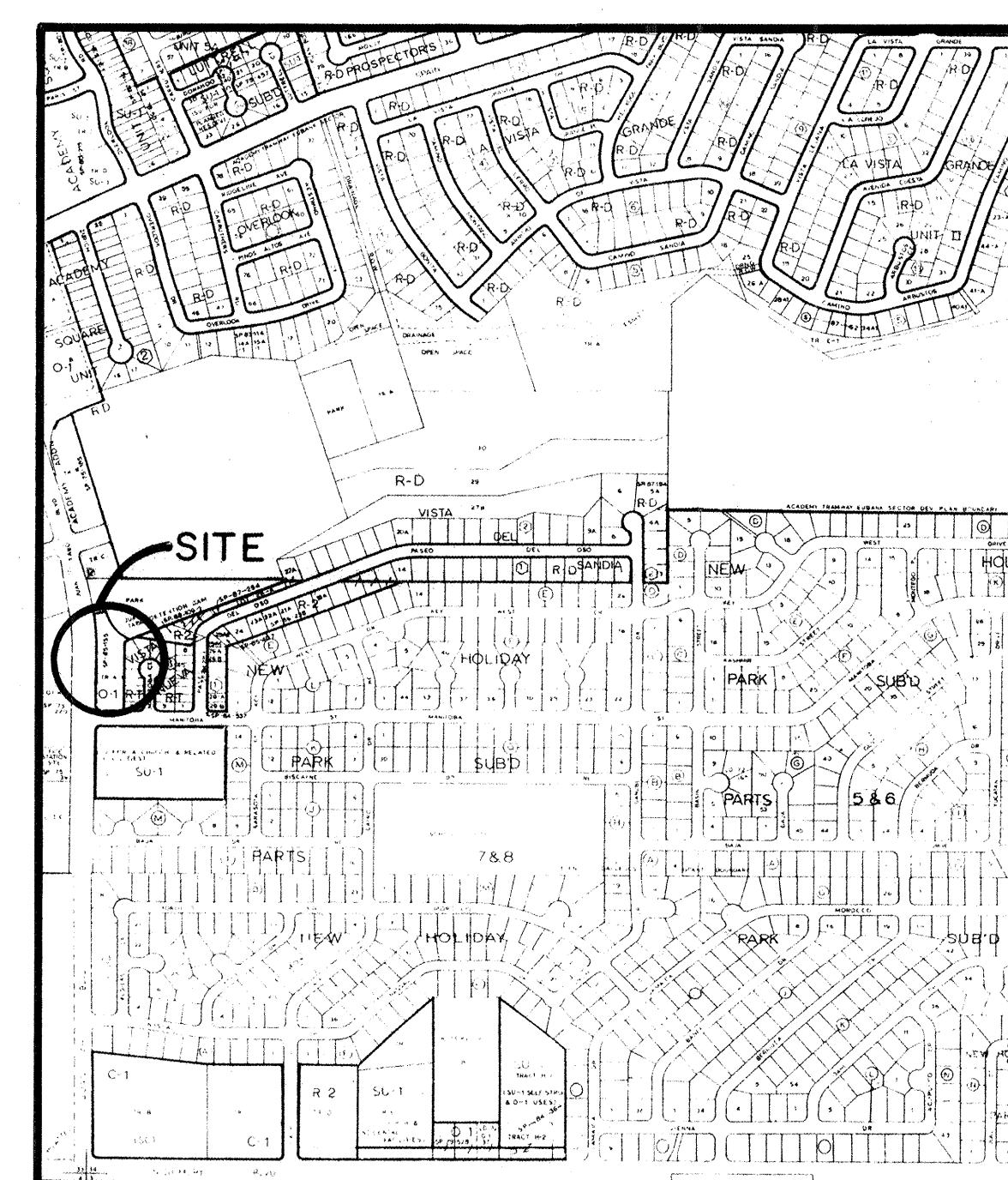
LEGAL DESCRIPTION



SCS SOILS MAP NO. 22



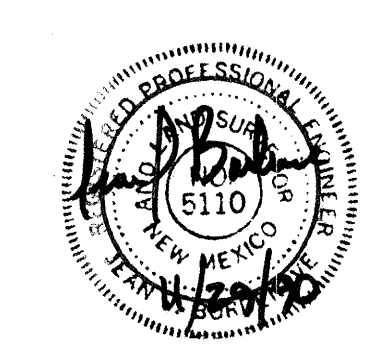
FEMA FHM PANEL 18



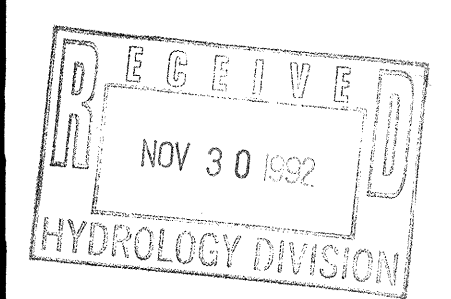
VICINITY MAP F-22

NOTES

LEGAL DESCRIPTION



BARKER, FRIEDMAN & ASSOCIATES, INC. JOB NO. 1054
ARCHITECTS & PLANNERS
209 GOLD AVENUE, S.W., ALBUQUERQUE, NEW MEXICO 842-6789
DATE: 11/21/92



VISTA NUEVA OFFICE PARK
4800 JUAN TABO BLVD. N.E.