DRAINAGE INFORMATION SHEET

UPS Grading, Drainage	
PROJECT TITLE: # Paving Improvements	ZONE ATLAS/DRNG. FILE #: 6-16 / DO
DRB #: _N/A EPC #: _N/A	work order #: AlA
BEGRE DECKLITION.	end Hohn Parcel (Parcel 1)
CITY ADDRESS: 2401 Comanche Rd. NE	Albuguerque, NM 87107
ENGINEERING FIRM: Easterland & Associates, Inc	. CONTACT: L.P. Bohannan
ADDRESS: SGAZ Paradise Blod. NW Albuquesque, NM 57114	PHONE: 898-8021
OWNER: United Parcel Service 2901 Commune Rd. HE	CONTACT: Lon Andreas
ADDRESS: Albuque gre, NM 87107	PHONE: <u>888-1218</u>
ARCHITECT: NA	CONTACT:
ADDRESS:	PHONE:
SURVEYOR: GeoSurveys	CONTACT: Rick Fenel
ADDRESS: Albuquegus, NM 87107	PHONE: 344-5330
CONTRACTOR: Universal Constructors	contact: Gilbert Luna
P.O. Bex 6008, Sta B ADDRESS: Albuqueque, NM 87197	PHONE: 884-0400
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
DRAINAGE REPORT	SKETCH PLAT APPROVAL
DRAINAGE PLAN	PRELIMINARY PLAT APPROVAL
CONCEPTUAL GRADING & DRAINAGE PLAN	S. DEV. PLAN FOR SUB'D. APPROVAL
GRADING PLAN	S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
EROSION CONTROL PLAN	SECTOR PLAN APPROVAL
ENGINEER'S CERTIFICATION	FINAL PLAT APPROVAL
· · · · · · · · · · · · · · · · · · ·	FOUNDATION PERMIT APPROVAL
OTHER	
	BUILDING PERMIT APPROVAL
PRE-DESIGN MEETING E G E V E	CERTIFICATE OF OCCUPANCY APPROVAL
YES	GRADING PERMIT APPROVAL
NO MAR 27 1991 U	PAVING PERMIT APPROVAL
COPY PROVIDED	S.A.D. DRAINAGE REPORT
HYDROLOGY DIVISION	DRAINAGE REQUIREMENTS
And the state of t	OTHER AS-Built (SPECIFY)
3/26/91	
DATE SUBMITTED: SIGNATURE CONTRACTOR OF THE SUBMITTED:	



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

June 28, 1994

Richard Vaughn Richard Vaughn & Associates 3700 Coors NW Albuquerque, NM 87121

RE: DRAINAGE PLAN FOR A TRUCK WASH TERMINAL @ UNITED PARCEL SERVICE (G16-D20) ENGINEER'S STAMP DATED 6/21/94.

Dear Mr. Vaughn:

Based on the information provided on your June 22, 1994 submittal, 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.

Please be advised that any further development within the U.P.S. parcel will require an updated Master Drainage Plan.

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

Sincerely,

Bernie J. Montoya, CE Engineering Associate

BJM/d1/WPHYD/8622

c: Andrew Garcia Vera Davis File

DRAINAGE INFORMATION SHEET

	UNITED PARCEL SER	
PROJECT TITLE:	HLBUR HUB IMPROVEME	W75ZONE ATLAS/DRNG. FILE #:
DRB #:	EPC #:	WORK ORDER #:
LEGAL DESCRIPT	_	CORPORATION PLATS C19-171 + D7-22
CITY ADDRESS:	2401 COMANO	CHE NE
ENGINEERING FI	RM: RICHARDVAUGHN	Assoc CONTACT: DICK VAUGHN
ADDRESS:	3700 COORS NW	PHONE: 831-4511
OWNER: //NIT	Juni Mating	A DAVIS CONTACT: VERA LAVIS
ADDRESS:	DALLAS, TX 75244	PHONE: (214) 768-7724
ARCHITECT:	NIMS CALVANI	CONTACT: JOHN LAYMAN
ADDRESS:	525 SAN PEDRO	<u>VE</u> PHONE: <u>268-6954</u>
SURVEYOR:	ESA CONSTRUCTION	CONTACT: ANDY LEE
ADDRESS:	3435 GIRARD 1	E PHONE:
CONTRACTOR: _		ION CONTACT: SNOY LEE
ADDRESS:	3435 GIRARD N	/E PHONE:
TYPE OF SUBMIT	TAL:	CHECK TYPE OF APPROVAL SOUGHT:
DRAINAGE	REPORT	SKETCH PLAT APPROVAL
DRAINAGE	PLAN	PRELIMINARY PLAT APPROVAL
CONCEPTUA	L GRADING & DRAINAGE PLAN	S. DEV. PLAN FOR SUB'D. APPROVAL
GRADING F	PLAN	S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
EROSION C	CONTROL PLAN	SECTOR PLAN APPROVAL
ENGINEER'	S CERTIFICATION	FINAL PLAT APPROVAL
OTHER	·	FOUNDATION PERMIT APPROVAL
		BUILDING PERMIT APPROVAL
PRE-DESIGN MEH	ETING:	CERTIFICATE OF OCCUPANCY APPROVAL
YES		GRADING PERMIT APPROVAL
NO		PAVING PERMIT APPROVAL
COPY PROV	JIDED .	S.A.D. DRAINAGE REPORT
	2 2 1994	DRAINAGE REQUIREMENTS
	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	SUBDIVISION CERTIFICATION
	·	OTHER (SPECIFY)

DATE SUBMITTED: 76/22/94

BY: Cardy See



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

August 19, 1991

R.P. Bohannan
Easterling & Associates, Inc.
5643 Paradise Boulevard, NW
Albuquerque, New Mexico 87114

RE: ENGINEER'S CERTIFICATION FOR UPS GRADING, DRAINAGE & PAVING IMPROVEMENTS DATED MARCH 26, 1991 (G-16/D20)

Dear Mr. Bohannan:

The as-built drainage plan received on March 27, 1991 is in accordance with our pre-design, hence, your submittal is approved.

The appropriate site drainage discharge points to the proposed SAD 216 drainage improvements will be determined during final design of SAD drainage improvements. The final approval of the connection to the SAD storm drain will be through the City Engineer's office (Hydrology Division) and through the SAD Engineer.

Should you have any questions, please call me at 768-2650.

Cordially,

Fred J. Aguirre, 1

Hydrologist

FJA/bsj (WP+2857)

PUBLIC WORKS DEPARTMENT

AIN SE NOTES:

1 EXISTING DRAINAGE APPROVED 12/14/90 FOR PAVING IMPROVEMENT PROJECT.

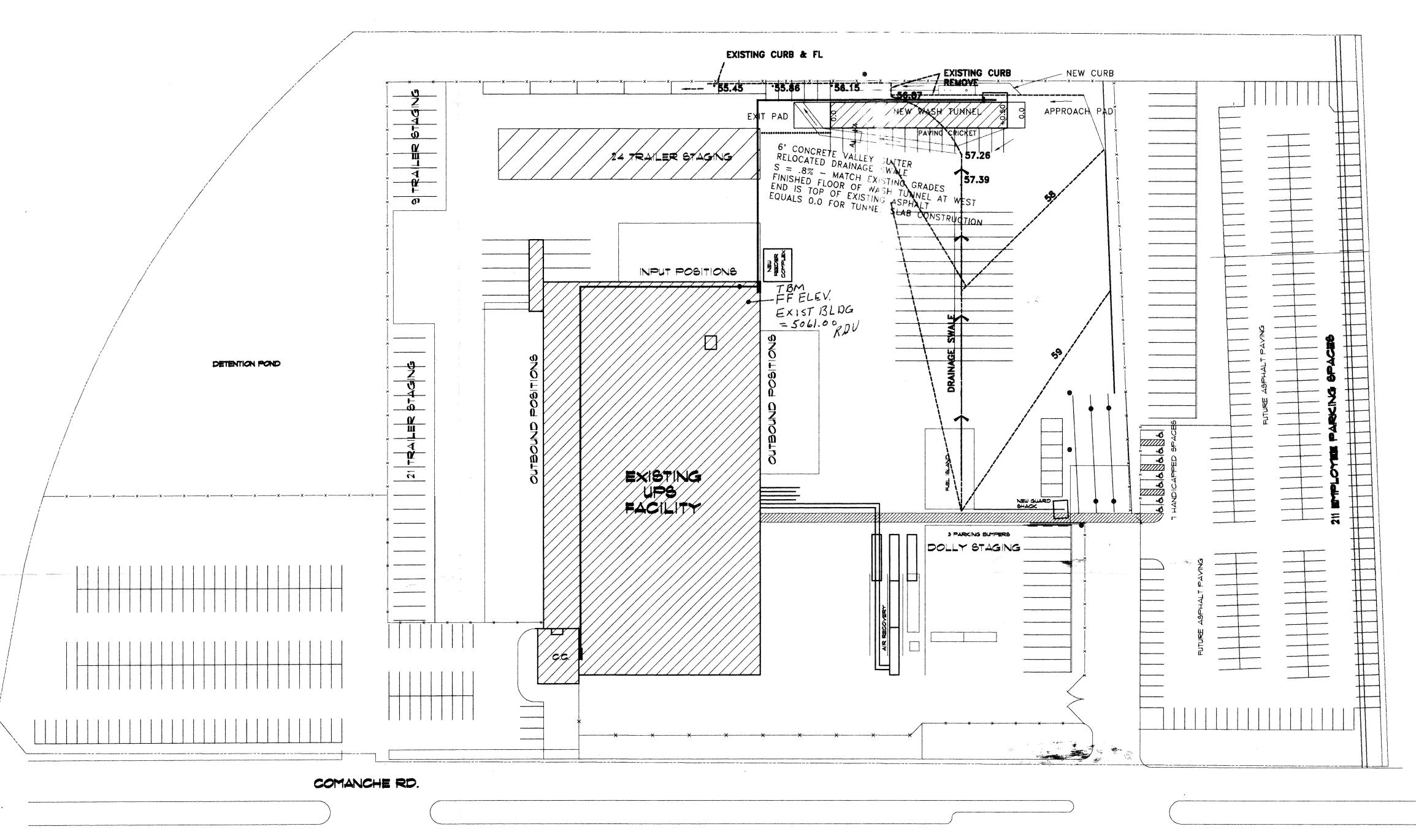
2. VISED DRAINAGE THIS PROJECT RELOCATES SWALE TO ACCOMMODATE NEW BUILDING. 3. W CURB ALONG FENCE ALLOWS DRAINAGE BEHIND BUILDING.
4 IN ROVEMENTS ON THIS PLAN DO NOT REVISE 1990

FOW PATTERNS, RUNOFF, AND VOLUME CALCULATIONS

AS COMPUTED BY EASTERLING & ASSOCIATES FOR THE

"USS GRADING, DRAINAGE & PAVING IMPROVEMENTS PROJECT"

5. EXISTING SWALE AND GRADES FROM AS-BUILT PLANS DATED 3/26/91



LAND

EXISTING CONSTRUCTION

GRADING PLAN SITE PLAN

SCALE: 1"=50'-0"

UPS PROPERTY

BUILDING CRITERIA

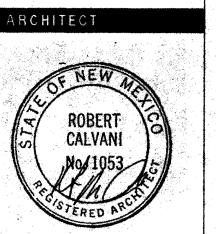
	PROJECT:	UNITED PARCEL SERV ALBUQUERQUE HUB I	
me ,	ADDRESS:	2701 PAN AMERICAN F ALBUQUERQUE, NM	FREEWAY NE
	OCCUPANCY TYPE:	FEEDER BUILDING WASH TUNNEL GUARD HOUSE	B-2 B-1 B-2
	CONSTRUCTION TYPE:	FEEDER BUILDING WASH TUNNEL GUARD HOUSE	VN VN VN
	BUILDING AREA:	FEEDER BUILDING 1st FLOOR 2nd FLOOR SUB-TOTAL	728 S.F. 728 S.F. 1,456 S.F.
	·	WASH TUNNEL GUARD HOUSE	3,400 S.F. 168 S.F.
	ALLOWABLE BUILDING AREA:	FEEDER BUILDING WASH TUNNEL GUARD HOUSE	8,000 S.F. 8,000 S.F. 8,000 S.F.



ALBUQUERQUE 525 SAN PEDRO NE. SUITE 110 ALBUQUERQUE, NM 87108 (505) 255-6400

LAS CRUCES 1400 EL PASEO ROAD, SUITE A LAS CRUCES, NM 88005 (505) 523-2000

里



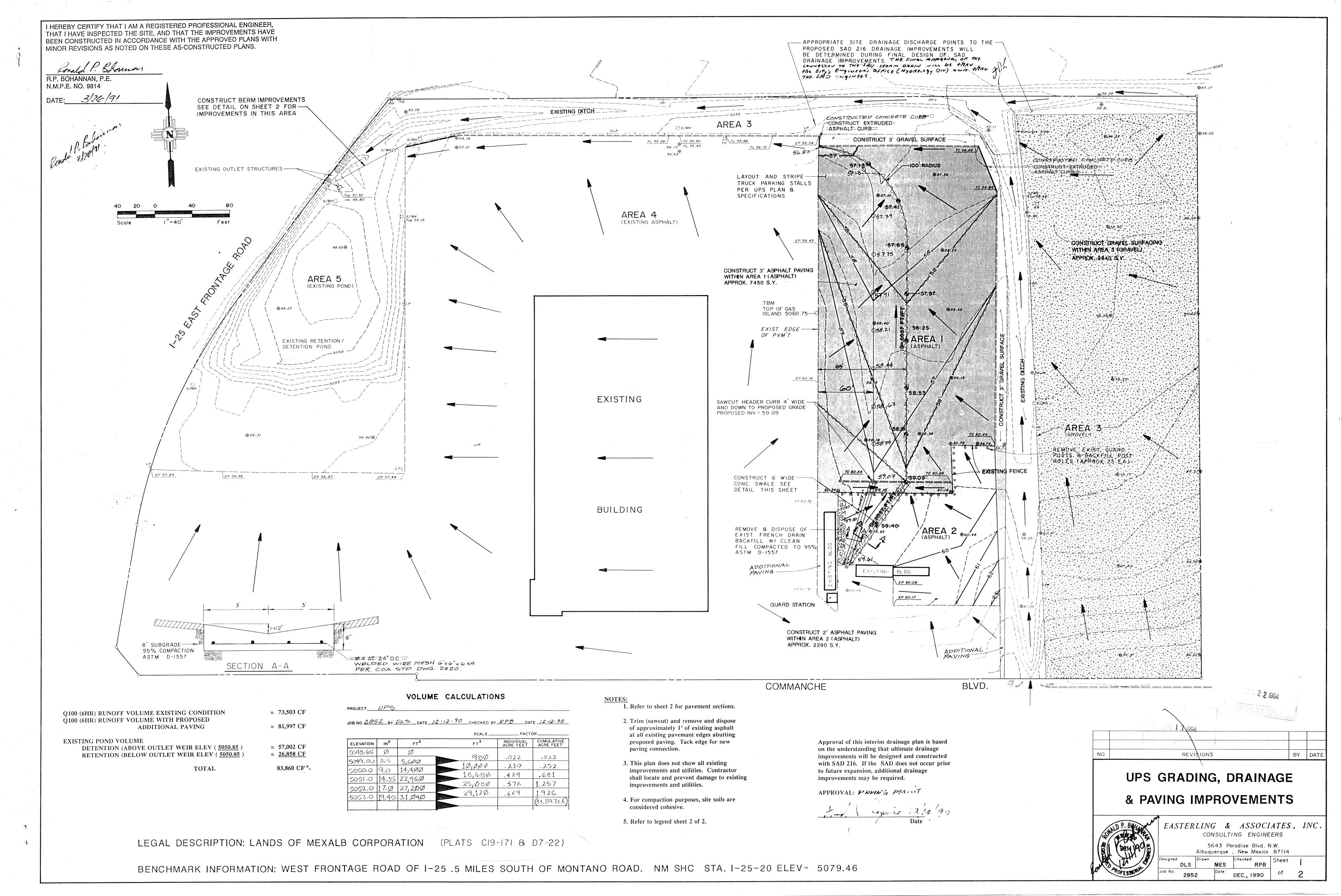
UNITED PARCEL SERVICE
ALBUQUERQUE HUB IMPROVEMENTS
FEEDER COMPLEX
ALBUQUERQUE, NEW MEXICO

JOB NUMBER: A94,20

5/5/94

SHEET NUMBER:

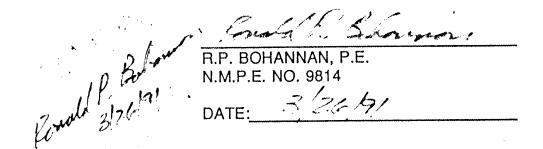
CS1.1

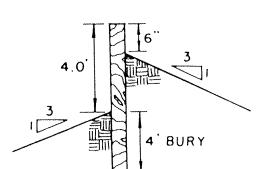


I FGFND

LEC	IENU	
DESCRIPTION	NEW	EXISTING
CONTOURS	5094	5091
SPOT ELEVATIONS	6 5088	⊕ <i>5088</i>
DRAINAGE AREA BOUNDARY	A A	A A
DRAINAGE DIVIDE		
WATER BLOCK		منبند
DIRECTION OF FLOW		
ASPHALT PAVING	ASPHALT	ASPHALT
LANDSCAPING	L.S.	[
RETAINING WALL		0000000
GARDEN WALL		00000000
SWALE		
PROPERTY LINE		
FENCE	xx	x x -
CATCH BASIN	76"50	0=====
STORM DRAIN M.H. & LINE	36"SD	0-36'SD
SANITARY SEWER M.H. & LINE	8"SAS	()-8·SAS ()
FIRE HYDRANT & WATER LINE	-6"W	6'W
REDUCERS	DM 101	[>
WATER VALVES	GATE BUTTERFLY	SATE BUTTERFLY
WATER CONNECTIONS	CROSS _ CAP	CROSSCAP
WATER JOINTS	TEE + BEND	TEE + BEND
CONCRETE	concrete.	concrete
GAS LINE	G	6
UNDERGROUND TELEPHONE	UT	<i>UT</i>
CABLE TELEVISION	O ^{P.P.}	O P.P.
POWER/TELEPHONE POLE	UE	(UE)
UNDERGROUND ELECTRICAL	TC 5088.28	TC 5088.28 FL 5087.78
CURB ELEVATION	FL 5087.78	£ 300/./8
HYDROLOGICAL ANALYSIS PT.		
DETAIL REFERENCE	3	(5)
KEYED NOTES	(2)	(2)
C.O.A. DETAIL REFERENCE		
CURVE OR COORDINATE REFERENCE INFO.	2	2
PHASE BOUNDARY		

I HEREBY CERTIFY THAT I AM A REGISTERED PROFESSIONAL ENGINEER, THAT I HAVE INSPECTED THE SITE, AND THAT THE IMPROVEMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS WITH MINOR REVISIONS AS NOTED ON THESE AS-CONSTRUCTED PLANS.





SECTION B-B (R.R. TIE RETAINING WALL)

HYDROLOGY

LE 1 - RAI	TU MLE UEP		RETURN PE									2 YEAR EVENT SUMWRY FOR ALL PASINS		PEAK	6 HOUR	24 HOUR	4 DAY	10 DA
DURATION	ING YEAR	58 YEAR			5 YEAR	2 YEAR					BASIN	DESCRIPTION	AREA	398440610	YOLUME	VOLUME	VOLUME	VOLUM
1 HOUR		1.81	1.61	1.34	1.14	0.87					1.0.		(ACRES)	(CFS)	(AC-FT)	(AC-FT)	(AC-FT)	(AC-F
6 HOUR	-		1.88	1.57	1.33	1.02					1	EXISTING	1.6845	1.01	0.0168	8.0168	0.0168	0.0
24 HOUR			2.20	1.83	1.56	1.19					2	existing	0.4823	0.29	0.0048	0.0018	0.001 8	0.00
4 DAY		2.97	2.64	2.20	1.87	1.43					3	EXISTING	3.6562	2.19	0.0366	0.0366	0.0366	0.8
19 DAY			3.16	2.63	2.24	1.71					4	EXISTING	6.9405	14.30	8.4164	0.5168	0.6549	0.8
10 011	3.30	3.50	V.10	2.00							5	EXISTING	1.4252	0.06	0.0012	0.0012	0.0012	0.0
											1A	PROPOSED	1.6845	3.47	0.1011	0.1254	0.1589	6.1
E 2 DAS	IN LAND T	REATMENT S	1 MMORY								2A	PROPOSED	0.4823	0.99	0.0289	0.0359	0.0455	0.0
L L ~ DNJ	IK ONO 1	NOSIII CITI	~~~								3A	PROPOSED .	3.6562	2.19	0.0366	0.0366	0.0366	0.0
BASIN		DESCRIPTI	ON		AREA	LAND TREAT	THENT CLA	ASSIFICTIO	N (& OF)	OTAL)	4A	PROPOSEO	6.9405	14.30	0.4164	0.5168	0.6549	0.8
1.0.		pesan.			(ACRES)	Α	8	С	α	TOTAL	5/	PROPOSED	1.4252	0.06	0.0012	0.0012	0.0012	0.6
1	EXISTING				1.68	0.0%	0.0%	100.01	0.04	100.01								
2	EXISTING				9.48	0.0%	9.94	100.04	9.94	100.01	TABLE 9 -	10 YEAR EVENT SUMMYRY FOR ALL BASTA	V S					
3	EXISTING				3.66	9.8%	0.01	100.0%	0.03	100.01				PEAK	6 HOUR	24 HOUR	4 DAY	10 (
4	EXISTING				6.94	0.01	9.04	0.04	100.04	100.01	BASIN	DESCRIPTION	AREA	DISOMAGE	VOLUME	VOLUME	volume	VOLU
5	EXISTING				1.43	100.01	0.01	0.01	8.64	100.04	1.0.		(ACRES)	(CFS)	(AC-FT)	(AC-FT)	(AC-FT)	(AC-
1A	PROPOSED				1.68	0.01	0.01	9.04	100.04	100.04	1	EXISTING	1.6845	3.25	0.0604		0.0604	
2A	PROPOSED				8.48	8.91	0.01	9.03	100.01	100.04	2	EXISTING	0.4823	0.93	0.0173		0.0173	
3A	PROPOSED				3.66	9.04	8.84	100.01	0.0%	100.03	3	EXISTING	3.6562	7.06	0.1310	0.1310	0.1310	0.
4A	PROPOSED				6.94	9.03	0.03	0.61	100.01	100.04	4	EXISTING	6.9405	24.08	0.7345	Ø.8889	1.1010	1.3
5A	PROPOSED				1.43	100.04	0.01	0.01	0.04	100.04	5	EXISTING	1.4252	1.63	0.0238	0.0238	0.0238	0.6
٠.											1A	UKOLOLEO	1.6845	5.86	0.1783	0.2157	0.2672	8.3
											2A	PROPOSED	0.4323	1.67	0.0510	0.0618	0.0765	8.6
										•	34	PROPOSED	3.6562	7.06	0.1310	0.1310	0.1310	0.
											4 A	PROPOSED	6.9405	24.08	0.7345	0.8888	1.1010	1.3
											5A	PROPOSED	1.4252	1.03	0.0238	0.0238	0.0238	0.
											TABLE 10	- 100 YEAR EVENT SUPPLYRY FOR ALL BA	SINS					
														PEAK	6 HOUR	24 UND	4 DAY	10

EXISTING EXISTING

EXISTING PROPOSED PROPOSED

FROMOSED

GENERAL NOTES FOR GRADING AND DRAINAGE

- AN EXCAVATION/CONSTRUCTION PERMIT MAY BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
- 2. ALL WORK DETAILED ON THESE PLANS, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH UPS PROJECT SPECIFICATIONS.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 260-1990, FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- BACKFILL COMPACTION SHALL BE 95% ASTM 1557.
- 6. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- 7. DISPOSAL OF ALL WASTE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- OWNERSHIP OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF EASTERLING & ASSOCIATES, INC., AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF EASTERLING & ASSOCIATES, INC.
- CONSTRUCTION SAFETY: THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE CONTRACTOR'S RESPONSIBILITY.
- 10. EROSION CONTROL: THE SITE WILL BE FULLY DEVELOPED IMMEDIATELY. EROSION PROBLEMS GENERATED BY PHASED DEVELOPMENT WILL NOT, THEREFORE, BE A PROBLEM.
- 11. CONSTRUCTION PHASE: THE CONTRACTOR SHALL EXERCISE REASONABLE CARE DURING CONSTRUCTION TO PREVENT THE MOVEMENT OF SEDIMENT FROM THE SITE INTO THE STREET. LOOSE SOIL STOCKPILES IN THE STREET DURING UTILITY CONNECTION ACTIVITIES SHALL BE PROTECTED FROM BEING CARRIED DOWNSTREAM BY FLOWING WATER IN THE STREET.

EXISTING OUTLET STRUCTURE -

TOP 49.20

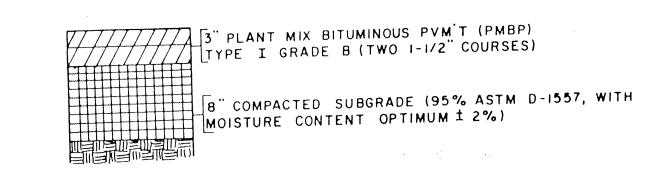
2.68 0.0629 0.0629 0.0629 0.0629

2.49 0.0812 0.0973 0.1194 0.1455 12.61 0.2864 0.2864 0.2864 0.2864

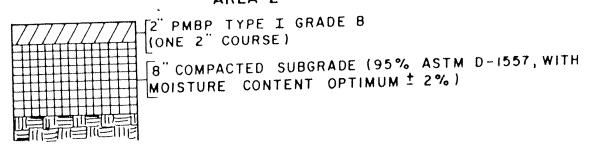
6.9405 35.81 1.1683 1.3997 1.7178 2.0937

1.4252 2.68 0.0629 0.0629 0.0629 0.0629

AREA I



AREA 2



AREA 3

3 AGGREGATE BASE COURSE CLASS II -B COMPACTED TO 95% ASTM D-1557 8" COMPACTED SUBGRADE (95% ASTM D-1557, WITH MOISTURE CONTENT OPTIMUM ± 2%)

RAISED SAS MH TO GRADE PER COA STD. DWG. 2102 - EXISTING PAVING SCALE: "=10 CONSTRUCT EART BERM 3:1 SIDESLOPES UPS FACILITY CONSTRUCT RAILROAD TIE RETAINING WALL -EXISTING OUTLET STRUCTURE

BERM IMPROVEMENTS DETAIL

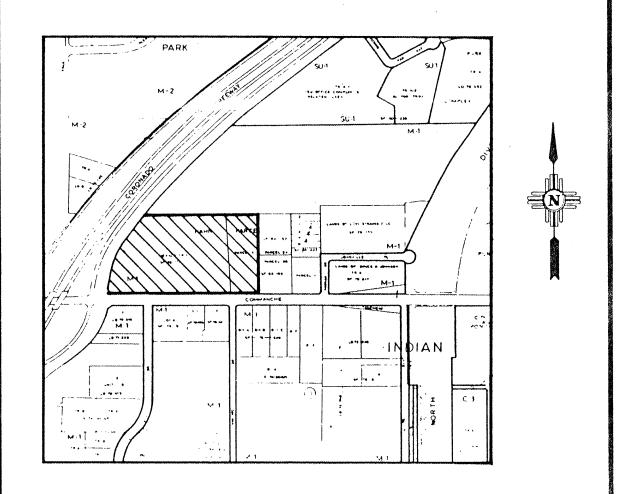
SOUS INFORMATION FROM SOU SURVEY USDA. S.C.S.

EXISTING RETENTION POND

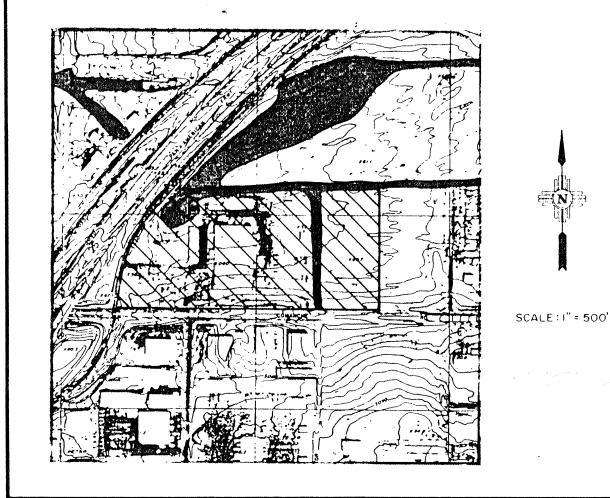
() SAS MH

		C	EGREE AND KI	ND OF LIMITATI	ONS FOR		SUITABILITY AS SOURCE OF -				SOIL FEATU	HYDROLOGIC	
SOIL SERIES AND MAP SYMBOLS	SEPTIC TANK ABSORPTION FIELDS	SEWAGE LAGOONS	SHALLOW EXCAVATIONS	DWELLINGS WITHOUT BASEMENTS	SANITARY LANDFILL (TRENCH TYPE)	LOCAL ROAD AND STREETS	ROAD FILL	SAND	GRAVEL	TOPSOIL	POND RESERVOIR AREAS	· · · · · · · · · · · · · · · · · · ·	
Embudo: EmB, EtC	Slight	Severe: seepage.	Moderate: small stones.	Slight	Severe: seepage.	Slight	Good	Poor: excess fines.	Poor: excess fines.	Poor: small stones.	Seepage	Piping; compressible	В
Wink: WaB, WeB, WM	Slight	Severe: scepage.	Slight	Slight	Severe: seepage.	Slight	Fair: low strength,	Unsuited	Unsuited	Good	Seepage	Piping; erodes easily.	В

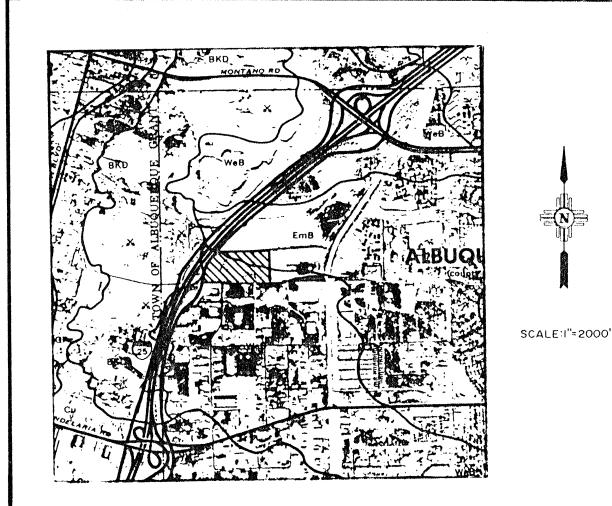
VICINITY MAP ZONE ATLAS MAP NO.



FLOOD HAZARD MAP & OFF-SITE FLOWS FROM F.E.M.A.



SOILS MAP SOIL SURVEY U.S.D.A., S.C.S.



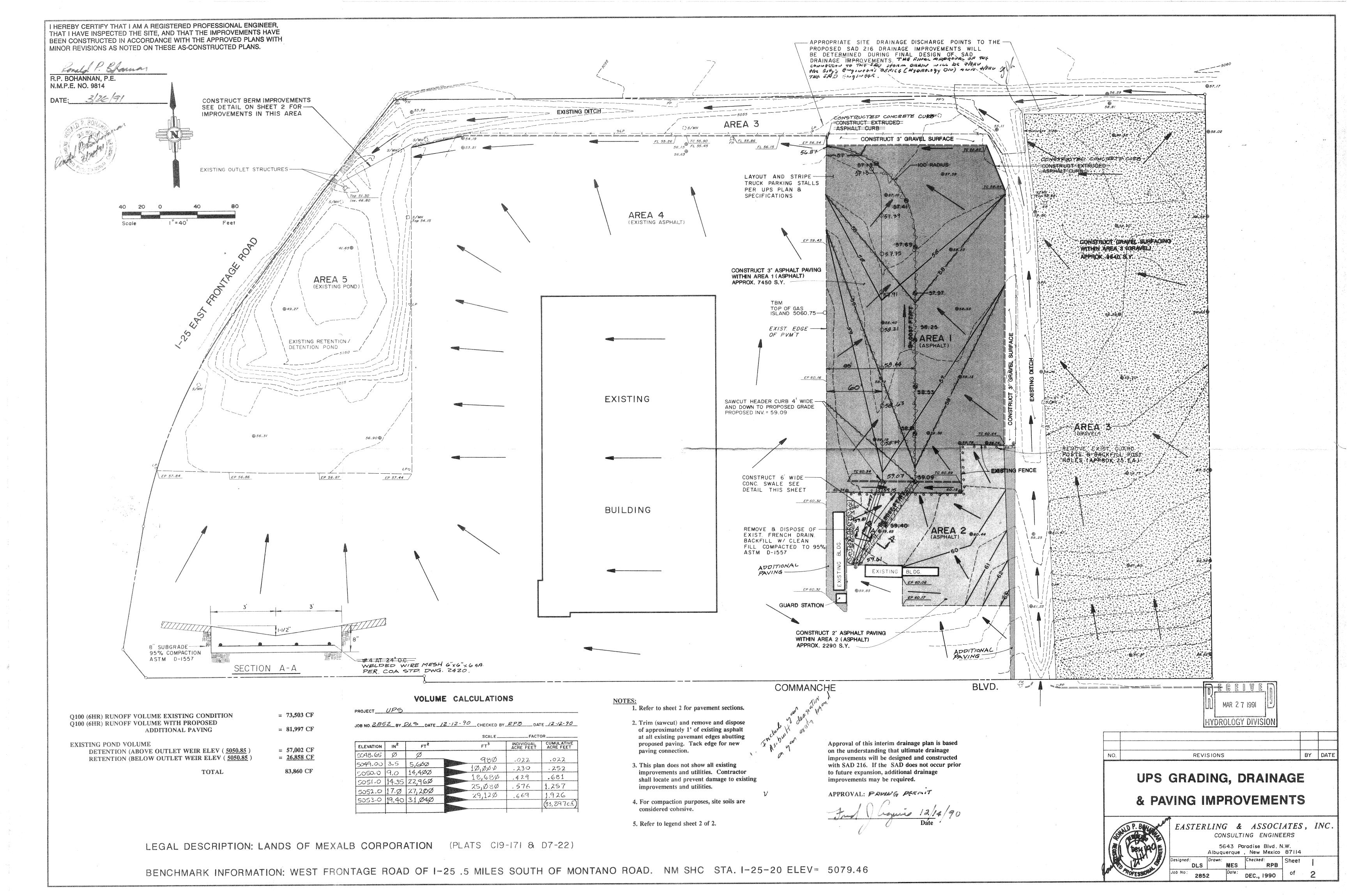
UPS GRADING, DRAINAGE & PAVING IMPROVEMENTS

REVISIONS



EASTERLING & ASSOCIATES, INC. CONSULTING ENGINEERS 5643 Paradise Blvd. N.W.

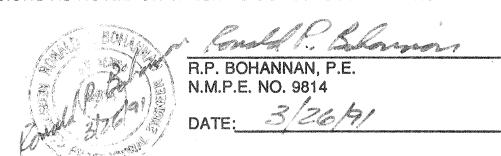
Albuquerque, New Mexico 87114 DEC., 1990



LEGEND

DESCRIPTION	NEW	EXISTING
CONTOURS	~~~~5094~~~~~~	5094
SPOT ELEVATIONS	⊕ 5088	⊕ <i>5088</i>
DRAINAGE AREA BOUNDARY	4	assanaadhnaassanass
DRAINAGE DIVIDE		
WATER BLOCK		
DIRECTION OF FLOW		
ASPHALT PAVING	ASPHALT	ASPHAL T
LANDSCAPING		And a Color come come come come come come come
RETAINING WALL		=======================================
GARDEN WALL		(m) (m) (m) (m) (m) (m)
SWALE	ಮಾನಿಗೊಂಬಾದು ಭಾರತ ಅವನಾಗಿಗೊಂಬಾದು	consignation constraints () () () () () () () () () (
PROPERTY LINE	daminakontan sekitorensitta (2000-100 kilokon oraneriaran papiriak 100 kilokon	
FENCE	Х	and man are X and only the day are a X are
CATCH BASIN		Committee design design design estate reservo
STORM DRAIN M.H. & LINE	36"SD	Operation construction of Operation construction of Operation of Opera
SANITARY SEWER M.H. & LINE	8"SAS	Commission was the commission on the Commission
FIRE HYDRANT & WATER LINE	6"W	ace and are 6 % one was green and a same area.
REDUCERS	bd løl	>
WATER VALVES	EATE BUTTERLY	CATE BUTEBULY
WATER CONNECTIONS	5 7	
WATER JOINTS	CROSS TO CAP	CROSS #CAP
CONCRETE	concrete.	concrete
GAS LINE	one communication (G) in the communication of	courts mouth futured accord evenus core.
UNDERGROUND TELEPHONE		Securitive causes course design electro
CABLE TELEVISION		ecra casa cissa cissa cissa casa (CT) e ecan casa cesa (eno essa)
POWER/TELEPHONE POLE	OP.P.	P.P.
UNDERGROUND ELECTRICAL	✓ TC 5088.28	7C 5986.28
CURB ELEVATION	FL 5087.78	FL 5087.78
HYDROLOGICAL ANALYSIS PT.	A	
DETAIL REFERENCE		
KEYED NOTES	3	(5)
C.O.A. DETAIL REFERENCE	2	5
CURVE OR COORDINATE REFERENCE INFO.	[2]	[2]
PHASE BOUNDARY		

I HEREBY CERTIFY THAT I AM A REGISTERED PROFESSIONAL ENGINEER, THAT I HAVE INSPECTED THE SITE, AND THAT THE IMPROVEMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS WITH MINOR REVISIONS AS NOTED ON THESE AS-CONSTRUCTED PLANS.



HYDROLOGY

TABLE 1 - RAI	INFALL DEPT	HD (INDH	5) FUX 20	4 %E.	2			*		
			RETURN PE	RICO						
DURATION	100 YEAR	50 YEAR	25 YEAR	10 YEAR	5 YEAR	2 YEAR				
1 HOUR	2.01	1.81	1.61	1.34	1.14	0.87				
5 HOUF	2.35	2.12	1.88	1.57	1.33	1.02				
24 HOUR	2.75	2.48	2.20	1.83	1.56	1.19				
4 DAY	3.30	2.97	2.64	2.20	1.87	1.43				
18 0A)	3.95	3.56	3.16	2.63	2.24	1.71				
table 2 - Bas	SIN LAND TR	LEATMENT S	LIMMRY							
					ADFA	LAND TREA	TMFNY CI	ASSIFICTIO	W (s. OF	(IATOY
BASIN		REATMENT S			AREA	LAND TREA			•	
BASIN 1.0.					(ACRES)	A	8	C	0	TOTA
Basin 1.0.	existing				(ACRES) 1.68	A 0.0%	B 0.¢%	C 100.0%	0 9.6%	101A
BASIN I.O. 1 2	EXISTING EXISTING				(ACRES) 1.68 0.48	A 6.0% 0.0%	8 0.04 9.04	C 100.0% 100.0%	0 6.84 6.84	101A 100. 100.
BASIN I.O. 1 2 3	EXISTING EXISTING EXISTING				(ACRES) 1.68 0.48 3.66	A 0.0% 0.0%	8.84 8.84 8.84	C 100.04 100.04 100.01	0.04 0.04 0.04	101A 100. 100.
BASIN I.O. 1 2 3 4	EXISTING EXISTING EXISTING EXISTING				(ACRES) 1.68 6.48 3.66 6.94	A 0.0% 0.6% 0.6%	8 0.84 0.84 0.84	C 100.6% 100.6% 100.6%	0 9.04 9.04 9.04	101A 100. 100. 100.
BASIN 1.0. 1 2 3 4 5	EXISTING EXISTING EXISTING EXISTING EXISTING				(ACRES) 1.68 6.48 3.66 6.94 1.43	A 9.0% 9.0% 9.0% 9.0% 100.0%	B 0.04 0.04 6.04 0.04	C 100.0% 100.0% 100.0% 0.0%	0.04 0.04 0.05 100.04 0.64	101A 109. 109. 109. 109.
BRSIN I.O. 1 2 3 4 5	EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING PROPOSED				(ACRES) 1.68 0.48 3.66 6.94 1.43 1.68	A 9.0% 9.0% 9.0% 9.0% 1000.0% 9.0%	B 0.03 0.04 0.04 0.04 0.04	C 160.6% 160.6% 160.6% 0.6%	0 9.8% 9.8% 9.8% 199.8% 199.8%	101A 100. 100. 100. 100. 100.
BASIN I.O. 1 2 3 4 5 1A 2A	EXISTING EXISTING EXISTING EXISTING EXISTING PROPOSED PROPOSED	DESCRIPTI			(ACRES) 1.68 0.48 3.66 6.94 1.43 1.68 0.48	A 6.0% 9.0% 9.0% 9.0% 9.0% 9.0% 9.0% 9.0% 9	8 0.04 0.04 0.04 0.04 0.04	C 100.0% 100.0% 100.0% 0.0% 0.0%	0.0% 0.0% 0.0% 100.0% 100.0%	101A 100. 100. 100. 100. 100.
BRSIN I.O. 1 2 3 4 5	EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING PROPOSED	DESCRIPTI			(ACRES) 1.68 0.48 3.66 6.94 1.43 1.68	A 9.0% 9.0% 9.0% 9.0% 1000.0% 9.0%	B 0.03 0.04 0.04 0.04 0.04	C 160.6% 160.6% 160.6% 0.6%	0 9.8% 9.8% 9.8% 199.8% 199.8%	101A 100. 100. 100. 100. 100.

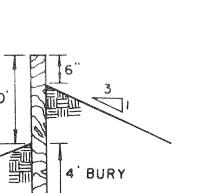
Di	ASIN	DESCRIPTION	PREA	PEAK	6 HOUR	24 HOUR	4 DAY	10 DA
	.D.	OCSUMITION	(ACRES)	DISCHARGE (CFS)	(AC-FT)	VOLUME (AC-FT)	VOLUME (AC-FT)	VOLUM (AC-F
1			1.6845	, ,	0.0168	0.0168	0.0168	0.01
2			0.4823		0.0048	0.0018	0.0100	0.00
3			3.6562		0.0366	0.0366	0.0366	0.03
4			6.9405		0.4164	0.5168	0.6549	0.81
5			1.4252		0.0012	0.0012	0.0012	0.00
ı/			1.6845		0.1011	0.1254	0.1589	0.19
2/			0.4823		0.0289	0.0359	0.0455	0.05
3/			3.6562		0.0366	0.0366	0.0366	0.03
41			6.9405		0.4164	0.5168	0.6549	0.81
5/			1.4252		0.0012	0.0012	0.0012	0.00
7/	able 9 - 10 year even	T SUMMARY FOR ALL BASINS						
				PEAK	6 HOUR	24 HOUR	4 DAY	10 DA
8/	ASIN	DESCRIPTION	area	DISCHARGE	VOLUME	VOLUME	VOLUME	VOLUM
1.	.D.		(ACRES)	(CFS)	(AC-FT)	(AC-FT)	(AC-FT)	(AC-F
1			1.6845	3.25	0.0604	0.0604	0.0604	0.06
2			0.4823	0.93	0.0173	0.0173	0.0173	0.01
3	EXISTING		3.6562	7.06	0.1310	0.1310	0.1310	0.13
4	EXISTING		6.9405	24.08	0.7345	0.8888	1.1010	1.35
5	EXISTING		1.4252	1.03	0.0238	0.0238	0.0238	0.02
IJ	a proposed		1.6845	5.85	0.1783	0.2157	0.2672	0.32
2/			0.4823	1.67	0.0510	0.0618	0.0765	9.09
3/	a Propo sed		3.6562	7.06	0.1310	0.1310	0.1310	0.13
a			6.9405	24.08	0.7345	0.8888	1.1010	1.35
5/	a proposed		1.4252	1.03	0.0238	0.0238	0.0238	0.02
T.	ABLE 10 - 100 YEAR EV	ENT SUMMARY FOR ALL BASING						
-	****	Marakan water and a		PEAK	6 HOUR	24 HOUR	4 DAY	10 DA
	ASIN	DESCRIPTION	AREA	DISCHARGE		VOLUME	VOLUME	VOLUM
	.D.		(ACRES)		(AC-FT)		(AC-FT)	(AC-F
1			1.6845		0.1320	9.1320	0.1320	9.13
2			0.4823		0.0378	0.0378	0.0378	0.03
3			3.6562		0.2864	0.2864	0.2864	0.28
5			6.9406		1.1683	1.3997	1.7178	2.09
1/			1.4252		0.0629	0.0629	0.0629	0.00
			1.6845		0.2835	0.3397	0.4169	0.50
2) 3)			0.4823		0.0812	9.0973	0.1194	0.14
			3.6562		0.2864	0.2864	0.2864	0.28
							1.7178	2.09 0.06
4) 5)	A PROPOSED A PROPOSED		6.94 05 1.4252		1.1683 0.0629	1.3997 0.0629	1.7 0.0	

TABLE 8 - 2 YEAR EVENT SUMMARY FOR ALL EASINS

GENERAL NOTES FOR GRADING AND DRAINAGE

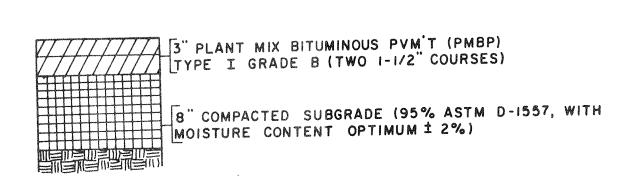
- 1. AN EXCAVATION/CONSTRUCTION PERMIT MAY BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
- 2. ALL WORK DETAILED ON THESE PLANS, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH UPS PROJECT SPECIFICATIONS.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 260-1990, FOR LOCATION OF EXISTING UTILITIES.
- 4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- BACKFILL COMPACTION SHALL BE 95% ASTM 1557.
- 6. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- 7. DISPOSAL OF ALL WASTE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- OWNERSHIP OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF EASTERLING & ASSOCIATES, INC., AND IS NOT TO BE USED, IN WHOLE OR IN PART. FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF EASTERLING & ASSOCIATES, INC.
- CONSTRUCTION SAFETY: THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE CONTRACTOR'S RESPONSIBILITY.
- 10. EROSION CONTROL: THE SITE WILL BE FULLY DEVELOPED IMMEDIATELY. EROSION PROBLEMS GENERATED BY PHASED DEVELOPMENT WILL NOT, THEREFORE, BE A PROBLEM.
- 11. CONSTRUCTION PHASE: THE CONTRACTOR SHALL EXERCISE REASONABLE CARE DURING CONSTRUCTION TO PREVENT THE MOVEMENT OF SEDIMENT FROM THE SITE INTO THE STREET. LOOSE SOIL STOCKPILES IN THE STREET DURING UTILITY CONNECTION ACTIVITIES SHALL BE PROTECTED FROM BEING CARRIED DOWNSTREAM BY FLOWING WATER IN THE STREET.

EXISTING OUTLET STRUCTURE -

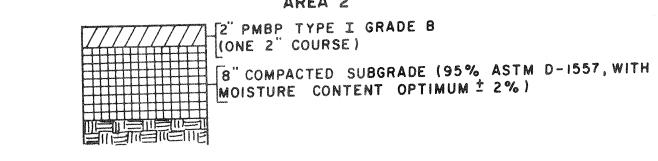


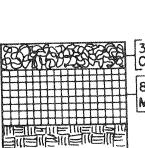
SECTION B-B (R.R. TIE RETAINING WALL)

AREA I

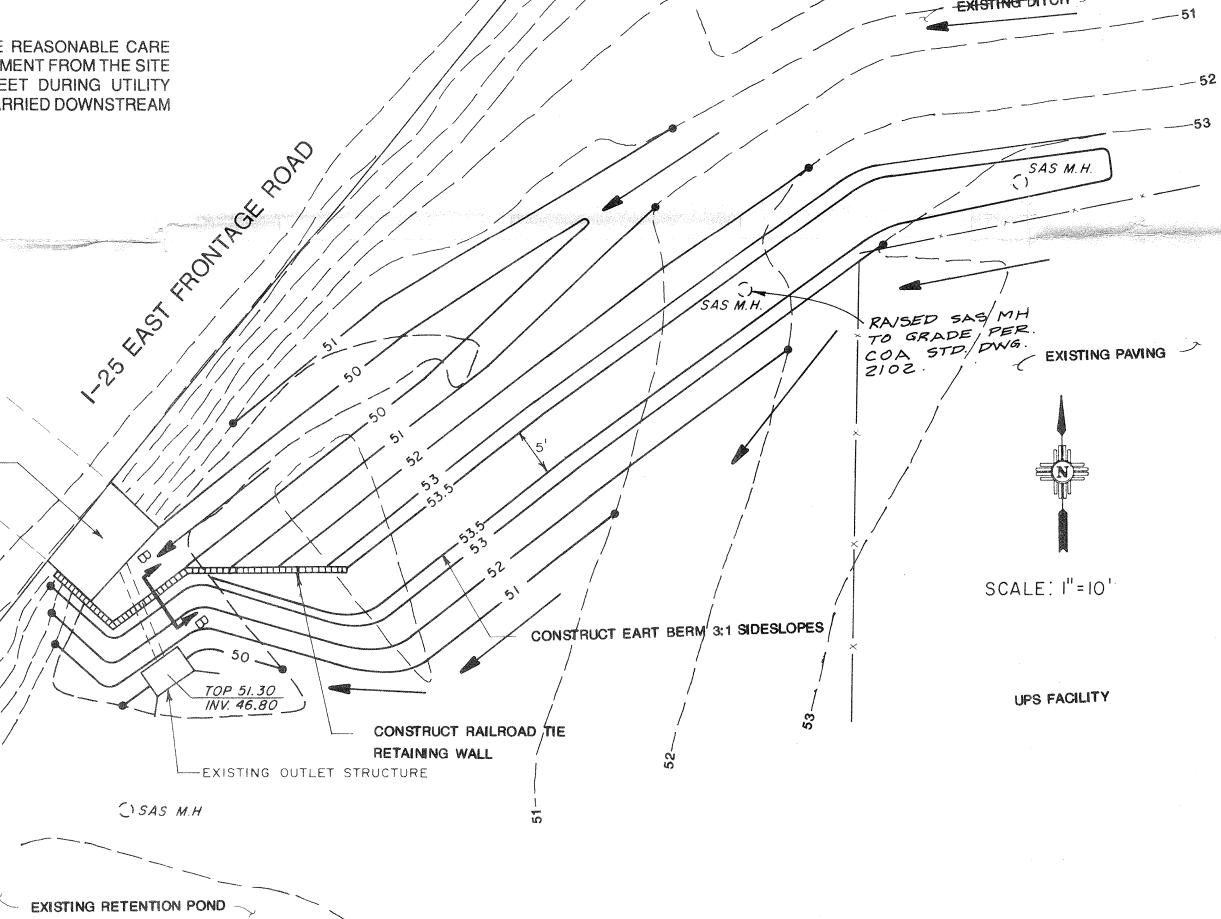


AREA 2





AREA 3 3" AGGREGATE BASE COURSE CLASS II -B COMPACTED TO 95% ASTM D-1557 8" COMPACTED SUBGRADE (95% ASTM D-1557, WITH MOISTURE CONTENT OPTIMUM ± 2%)

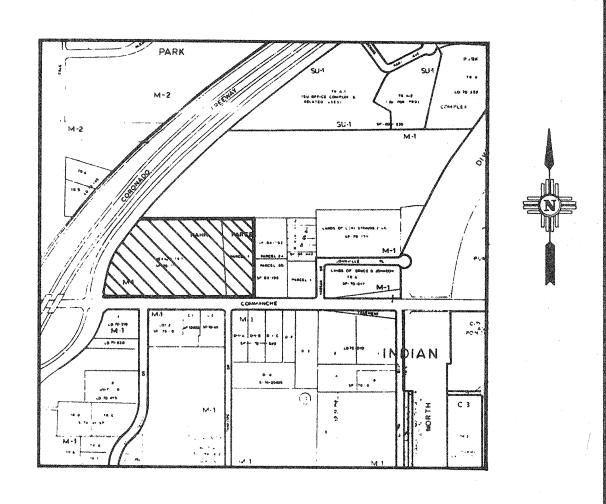


BERM IMPROVEMENTS DETAIL

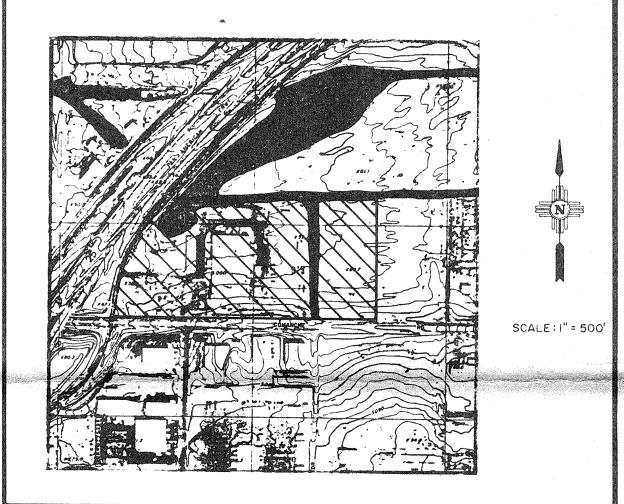
SOILS INFORMATION FROM SOIL SURVEY U.S.D.A., S.C.S.

		D	EGREE AND KI	ND OF LIMITATI	ONS FOR	он совет и до на боре в не на		SUITABILITY A	S SOURCE OF-		SOIL FEATUR		
SOIL SERIES AND MAP SYMBOLS	SEPTIC TANK ABSORPTION FIELDS	SEWAGE LAGOONS	SHALLOW EXCAVATIONS			HYDROLOGIC Soil Group							
Embudo: EmB, EtC	Slight	Severe: seepage.	Moderate: small stones.	Slight	Severe: seepage.	Slight	Good	Poor: excess fines.	Poor: excess fines.	Poor: small stones.	Seepage	Piping; compressible	В
Wink: WaB, WeB, WM	Slight	Severe: seepage.	Slight	Slight	Severe: scepage.	Slight	Fair: low strength.	Unsuited	Unsuited	Good	Secpage	Piping; erodes easily.	В

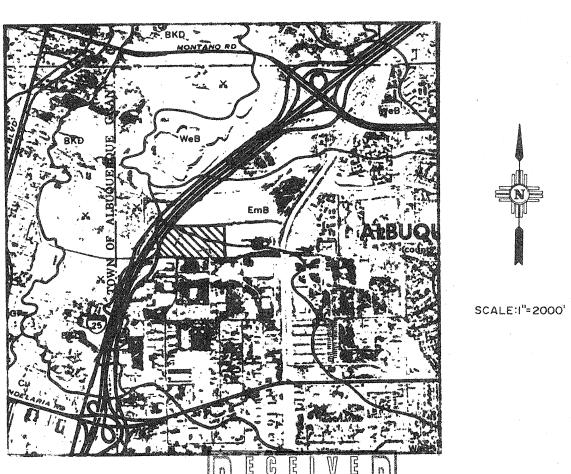
VICINITY MAP ZONE ATLAS MAP NO.



FLOOD HAZARD MAP & OFF-SITE FLOWS FROM F.E.M.A.

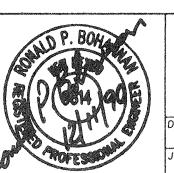


SOILS MAP SOIL SURVEY U.S.D.A., S.C.S.

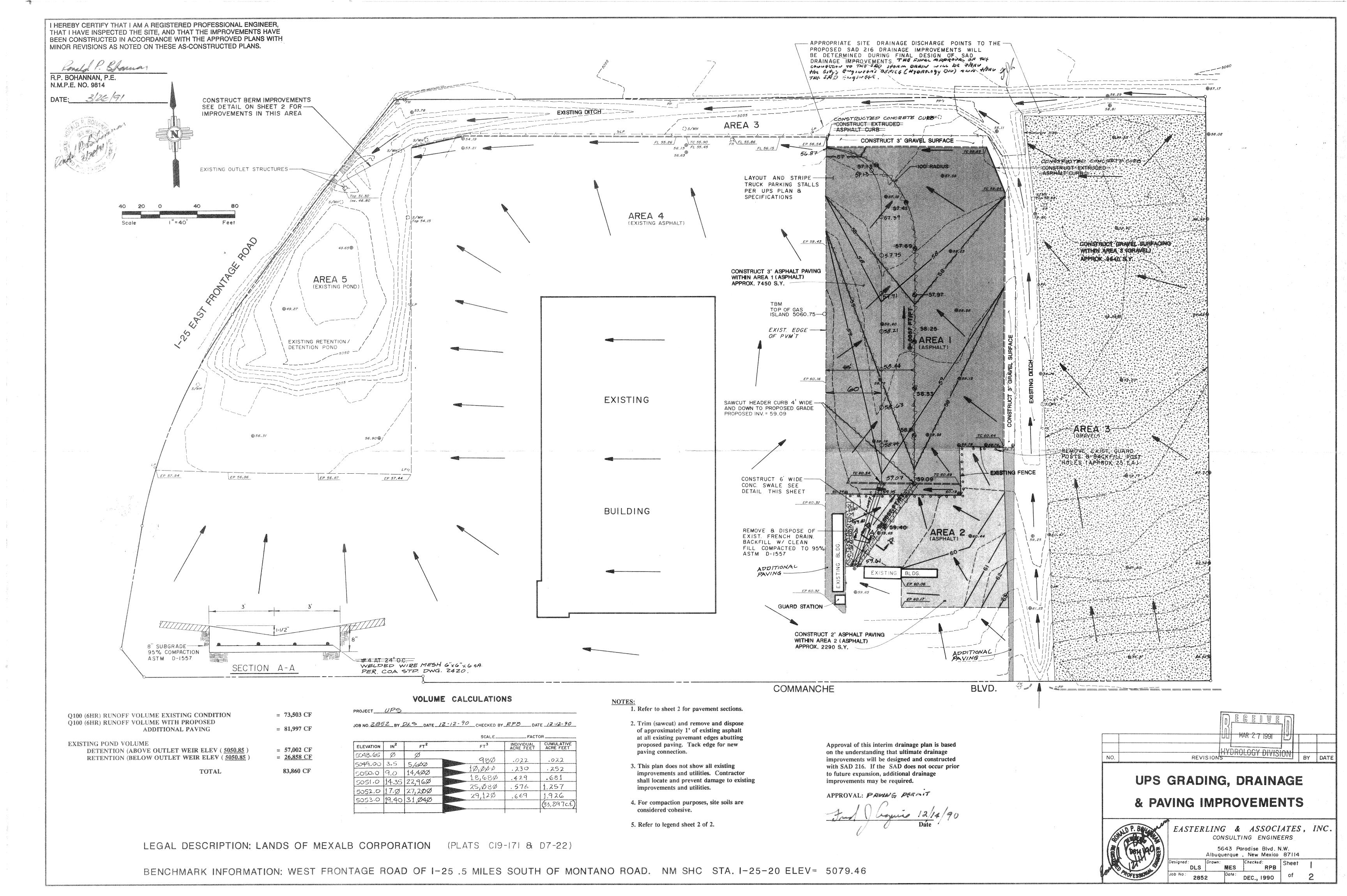


REWISTONSACY BY DATE

UPS GRADING, DRAINAGE & PAVING IMPROVEMENTS



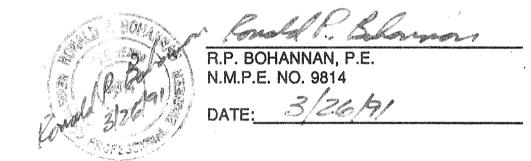
EASTERLING & ASSOCIATES, INC. CONSULTING ENGINEERS



LEGEND

DESCRIPTION NEW EXISTING													
DESCRIPTION	NEW	EXISTING											
CONTOURS		5094											
SPOT ELEVATIONS	⊕ 5088	⊕ <i>5088</i>											
DRAINAGE AREA BOUNDARY	A A	20000000000000000000000000000000000000											
DRAINAGE DIVIDE													
WATER BLOCK	ships -	anjan											
DIRECTION OF FLOW	40.00 Marie Common Comm												
ASPHALT PAVING	ASPHALT	ASPHAL T											
LANDSCAPING	L.S.	۷.5											
RETAINING WALL		Fined Court Court Court Court Court Court											
GARDEN WALL													
SWALE	estillanomeronem & & or stillanomeronem	estillationessessesses & & astallations											
PROPERTY LINE	disaption operation, no calendary operation and consistency interests for a conjustive resistance in	den januaria sunjun valada sa un nungata dakan nandan anan kabuman yanga kabaha januaria sa sa sa sa sa sa sa s											
FENCE	removement X arrangement X and	. X X X											
CATCH BASIN	Constitution of the consti	The state state state that come when											
STORM DRAIN M.H. & LINE	36"SD												
SANITARY SEWER M.H. & LINE	8"SAS	() we are one one () we can one one one											
FIRE HYDRANT & WATER LINE	emercence 6 "W commencement	conse encin circo 6 % cesa coco dans sedan encino											
REDUCERS	N I ø I	(>											
WATER VALVES	CATE BUTTERFLY	CATE BUTTERFLY											
WATER CONNECTIONS	T 7												
WATER JOINTS	TEE # BEND	CROSS the CAP											
CONCRETE	concrete.	concrete											
GAS LINE		custo dessa dessa datan como da Company (suan apera dessa espa											
UNDERGROUND TELEPHONE		0-duran chara dinas dinas casas casas (2000)											
CABLE TELEVISION	distributions and a second and a	como casa desen aceso casa (CZ) casa casa casa casa casa											
POWER/TELEPHONE POLE	O P.P.	O P.P.											
UNDERGROUND ELECTRICAL	▼ TC 5088.28	70 5080.26											
CURB ELEVATION	FL 5087.78	FZ. 5087.78											
HYDROLOGICAL ANALYSIS PT.		<u>A</u>											
DETAIL REFERENCE	(Sp)												
KEYED NOTES	(5)	(5)											
C.O.A. DETAIL REFERENCE	(2)	2											
CURVE OR COORDINATE REFERENCE INFO.	[2]	8											
PHASE BOUNDARY													

I HEREBY CERTIFY THAT I AM A REGISTERED PROFESSIONAL ENGINEER, THAT I HAVE INSPECTED THE SITE, AND THAT THE IMPROVEMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS WITH MINOR REVISIONS AS NOTED ON THESE AS-CONSTRUCTED PLANS.



HYDROLOGY

CURATION 100 YEAR 20 YEAR 25 YEAR 10 YEAR 25 YEAR 1.34 1.14 0.87 1.34 0.87 0.386 0	TABLE 1 - RAT	INFALL DEPI		s) for 20 Return pe		2			•			TABLE 8	3 - 2 year event	SUMMARY FOR ALL BASINS		PEAK	6 HOUR	24 HOUR	4 DAY	10.0
1 HEUR 2.81 1.81 1.61 1.93 1.14 9.87 1.13 1.62 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	CURATION	100 YEAR				5 YEAR	2 YEAR	•				BASIN		DESCRIPTION ARE	А С				VOLUME	
6 HOLK							0.87												(AC-FT)	
24 RUR					1.57	1.33	1.02					1	EXISTING	· · · · · · · · · · · · · · · · · · ·					0.0168	
4 DAY 3.39 2.97 2.64 2.79 1.87 1.43 1.43 1.43 1.43 1.43 1.43 1.43 1.43	24 HOUR	2.75	2.48	2.20	1.83	1.56	1.19					2							0.0048	
10 DAY 3,95 3,56 3,16 2,63 2,24 1.71	4 041	3.39	2.97	2.64	2.20	1.87	1.43					3							0.0366	
Marie Mari	10 DAY	3.95	3.56	3.16	2.63	2.24	1.71					4							0.6549	
MARIE 2 - BRS IN UND TREATMENT SUPPORT 1.6845 3.47 0.101 0.1254												5							0.0012	
ABASE CARE												1A							0.1589	
BASIN DESCRIPTION AREA LAND TREATMENT CLASSIFICTION (% OF TOTAL) CAMPAN	ABLE 2 - BAS	SIN LAND TE	REATMENT S	UMMARY								2A	PROPOSED						0.0455	
BASIN DESCRIPTION AREA LAND TREATMENT CLASSIFICTION (% OF TOTAL) 4A PROPOSED 6.946 14.30 0.4164 0.5168 1.0 (ACRES) A B C D TOTAL SA PROPOSED 1.4252 0.66 0.0012 0.0012 1.4252 0.66 0.0012 0.0012 1.4252 0.66 0.0012 0.0012 1.4252 0.66 0.0012 0.0012 1.4252 0.66 0.0012 0.0012 1.4252 0.66 0.0012 0.0012 0.0012 1.4252 0.66 0.0012 0.												3A	PROPOSED	3.69	562	2.19	0.0366	0.0366	0.0366	0.0
I.D. (ACRES) A B C D TOTAL SA PROPOSED 1.4252 0.06 0.0012 0.0012 EXISTING 1.68 0.08 0.08 1.00 0.08 1.00 0.08 1.00 0.08 1.00 0.08 EXISTING 3.66 0.08 0.08 1.00 0.08 1.00 0.08 1.00 0.08 EXISTING 6.94 0.08 0.08 1.00 0.08 1.00 0.08 1.00 0.08 EXISTING 6.94 0.08 0.08 0.08 1.00 0.08 1.00 0.08 EXISTING 1.43 1.00 0.08 0.08 0.08 1.00 0.08 1.00 0.08 EXISTING 1.68 0.08 0.08 0.08 1.00 0.08 1.00 0.08 EXISTING 1.6945 0.08 0.08 0.08 1.00 0.08 EXISTING 0.08 0.08 0.08 0.08 EXISTING 0.08 0.08 0.08 0.08 0.08 0.08 0.08 EXISTING 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 EXISTING 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 EXISTING 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08 0.08	BASIN		DESCRIPTI	ON		AREA	LAND TREA	THENT CL	ASSIFICTION	ON (% OF	TOTAL)							0.5168	0.6549	
1 EXISTING 2 EXISTING 3 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	1.0.					(ACRES)	Α	8	С	0	TOTAL	5/1	PROPOSED				0.0012	0.0012	0.0012	
3 EXISTING 3.66 0.9% 0.9% 100.9% 100.0% 1.0.0 (ACRES) (CFS) (AC-FT) (AC-FT) 1.68 (ACRES) (AC-FT) (AC-FT) 1.68 (ACRES) (AC-FT) 1.68 (AC-FT) 1.6	1	EXISTING				1.68	0.0%	0.0%	100.04	0.04	100.0%									
4 EXISTING 6.94 0.0% 0.0% 0.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 1.00.	2	EXISTING				0.48	0.0%	0.0%	100.04	0.0%	100.0%	TABLE 9	- 10 YEAR EVEN	I SUMMARY FOR ALL BASINS						
5 EXISTING 1.43 100.0% 0.0% 0.0% 100.0% 100.0% 1. PROPOSED 1.68 0.0% 0.0% 0.0% 100.0% 100.0% 1. EXISTING 1. EXISTING 1. 6845 3.25 0.0604 0.0604 2A PROPOSED 0.48 0.0% 0.0% 100.0% 100.0% 2A PROPOSED 3.66 0.0% 0.0% 100.0% 100.0% 3. EXISTING 3.6562 7.06 0.1310 0.1310 4A PROPOSED 4.0 0.0% 0.0% 0.0% 100.0% 100.0% 5 EXISTING	3 .	EXISTING				3.66	0.0%	0.04	100.0%	0.0%	100.0%					PEAK	6 HOUR	24 HOUR	4 DAY	10 D
1	4	EXISTING				6.94	0.04	0.04	0.0%	100.03	100.0%	BASIN		DESCRIPTION AREA	A 0	ISCHWRGE	VOLUME	VOLUME	VOLUME	VOLU
2A PROPOSED 9.48 0.98 0.98 0.98 100.08 100.08 2 EXISTING 0.4823 0.93 0.0173 0.0173 3 FROPOSED 3.66 0.98 0.98 100.08 100.08 100.08 3 EXISTING 3.6562 7.06 0.1310 0.1310 4A PROPOSED 5.94 0.08 0.08 100.08 100.08 100.08 4 EXISTING 5.94 0.98 0.7345 0.8888 5A PROPOSED 1.43 100.08 0.08 0.08 0.08 100.08 100.08 5 EXISTING 1.4252 1.03 0.0238 0.0238 1.67 0.6510 0.0618 1.4254 1.03 0.0238 0.0238 1.67 0.0510 0.0618 1.4254 1.03 0.0238 0.0238 1.67 0.0510 0.0618 1.4254 1.03 0.0238 0.0238 1.67 0.0510 0.0618 1.4254 1.03 0.0238 0.0238 1.67 0.0510 0.0618 1.4254 1.03 0.0238 0.0238 1.67 0.0510 0.0618 1.4254 1.03 0.0238 0.0238 1.67 0.0510 0.0618 1.4254 1.03 0.0238 0.0238 1.67 0.0510 0.0618 1.4254 1.03 0.0238 0.0238 1.67 0.0510 0.0618 1.4254 1.03 0.0238 0.0238 1.67 0.0510 0.0618 1.4254 1.03 0.0238 0.0238 1.67 0.0510 0.0618 1.4254 1.03 0.0238 0.0238 1.67 0.0510 0.0618 1.4254 1.03 0.0238 0.0238 1.67 0.0510 0.0618 1.4254 1.03 0.0238 0.0238 1.67 0.0510 0.0618 1.4254 1.03 0.0238 0.0238 1.67 0.0510 0.0618 1.4254 1.03 0.0238 0.0238 1.67 0.0510 0.0518 1.4254 1.03 0.0238 0.0238 1.67 0.0510 0.0518 1.4254 1.03 0.0238 0.0238 1.67 0.0510 0.0518 1.4254 1.03 0.0238 0.0238 1.47 0.0510 0.0518 1.4254 1.03 0.0238 0.0238 1.47 0.0510 0.0518 1.4254 1.03 0.0238 0.0238 1.47 0.0518 1.4254 1.03 0.0238 0.0238 1.47 0.0518 1.4254 1.03 0.0238 0.0238 1.47 0.0518 1.4254 1.03 0.0238 0.0238 1.47 0.0518 1.4254 1	5	EXISTING				1.43	100.0%	0.6%	0.0%	0.69	100.04	1.0.		(ACRE	ES)	(CFS)	(AC~FT)	(AC-FI)	(AC-FT)	(AC-
3A FROPOSED 3.66 0.08 0.08 100.08 100.08 100.08 100.08 4 EXISTING 3.6562 7.06 0.1310 0.1310 4A PROPOSED 6.94 0.08 0.08 0.08 100.08 100.08 4 EXISTING 6.9405 24.08 0.7345 0.8888 5A PROPOSED 1.43 100.08 0.08 0.08 0.08 100.08 5 EXISTING 1.4252 1.03 0.0238 0.0238 1A PROPOSED 1.6845 5.06 0.1783 0.2157 2A PROPOSED 0.4823 1.67 0.0510 0.0618 3A PROPOSED 3.6562 7.06 0.1310 0.1310 4A PROPOSED 3.6562 7.06 0.1310 0.1310 4A PROPOSED 6.9405 24.08 0.7345 0.8888 5A PROPOSED 1.4252 1.03 0.0238 0.0238 1.000 0.00	1A	PROPOSED				1.68	0.0%	0.03	0.0%	100.0%	100.04	1	EXISTING	1.60	845	3.25	0.0604	0.0604	0.0604	0.0
4A PROPOSED 6.94 9.0% 9.0% 109.0% 109.0% 109.0% 5 EXISTING 6.9405 24.08 9.7345 0.8888 5A PROPOSED 1.43 109.0% 0.0% 0.0% 109.0% 109.0% 5 EXISTING 1.4252 1.03 9.0238 0.0238 1A PROPOSED 1.6945 5.85 0.1783 0.2157 2A PROPOSED 0.4823 1.67 0.6510 0.0618 3A PROPOSED 3.6562 7.06 0.1310 0.1310 4A PROPOSED 6.9405 24.08 0.7345 0.8888 5A PROPOSED 1.4252 1.03 0.0238 0.0238 1.000 0.00	2A	PROPOSEO				0.48	0.04	0.8%	0.0%	100.0%	160.6%	2	EXISTING	0.48	823	0.93	0.0173	0.0173	0.0173	9.0
\$\text{SA}\$ PROPOSED	3A	PROPOSED				3.66	0.6%		100.03			3	EXISTING	3.63	562	7.06	0.1310	0.1310	0.1310	0.1
1A FROPOSED 1.6845 5.85 0.1783 0.2157 2A PROPOSED 0.4823 1.67 0.0510 0.0618 3A PROPOSED 3.6562 7.06 0.1310 0.1310 4A PROPOSED 6.9405 24.08 0.7345 0.8888 5A PROPOSED 1.4252 1.03 0.0238 0.0238	4A											ą	EXISTING	6.94	405	24.08	0.7345	0.8888	1.1010	1.3
2A PROPOSED 0.4823 1.67 0.6510 0.0618 3A PROPOSED 3.6562 7.06 0.1310 0.1310 4A PROPOSED 6.9405 24.08 0.7345 0.6888 5A PROPOSED 1.4252 1.03 0.0238 0.0238 TABLE 10 - 100 YEAR EVENT SUPPLYRY FOR ALL BASINS	5A	PROPOSED				1.43	109.04	0.0%	0.04	9.6%	100.04	5	EXISTING	1.42	252	1.03	0.0238	0.0238	0.0238	0.0
3A PROPOSED 3.6562 7.06 0.1310 0.1310 4A PROPOSED 6.9405 24.08 0.7345 0.8888 5A PROPOSED 1.4252 1.03 0.0238 0.0238 **TABLE 10 ~ 100 YEAR EVENT SUPPLINEY FOR ALE BASING												14	FROPOSED	1.68	845	5.85	0.1783	0.2157	0.2672	0.3
4A FROPOSED 6.9405 24.00 0.7345 0.8888 5A PROPOSED 1.4252 1.03 0.0238 0.0238 **TABLE 10 ~ 100 YEAR EVENT SUPPLYRY FOR ALL BASINS												2A	PROPOSED	0.4	823	1.67	0.0510	0.0618	0.0765	0.0
5A PROPOSED 1.4252 1.03 0.0238 0.0238 TABLE 10 - 100 YEAR EVENT SUPPLYRY FOR ALL BASINS												3A	PROPOSEO	3.69	562	7.06	0.1310	0.1310	0.1310	0.1
TABLE 10 - 100 YEAR EVENT SUPPORT FOR ALL BASINS												4A	PROPOSED	6.9	405	24.08	0.7345	0.8888	1.1010	1.3
TABLE 10 - 100 YEAR EVENT SUPPLYRY FOR ALL BASINS												5A	PROPOSED	1.43	252	1.03	0.0238	0.0238	0.0238	0.0
PE/X 6 HOUR 24 HOUR			des.									TABLE 1	0 - 100 YEAR EV	ENT SUMMARY FOR ALL BASING						
DACEM DECORDER OF AREA DECOMPORE MALAGE MOUNTE												MAR 41.		BEOODT OF THE						

EXISTING EXISTING EXISTING EXISTING

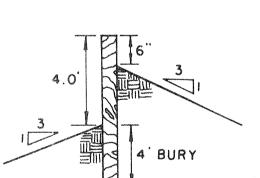
PROPOSED PROPOSED

PROPOSED

GENERAL NOTES FOR GRADING AND DRAINAGE

- AN EXCAVATION/CONSTRUCTION PERMIT MAY BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
- ALL WORK DETAILED ON THESE PLANS, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH UPS PROJECT SPECIFICATIONS.
- 3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 260-1990, FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- BACKFILL COMPACTION SHALL BE 95% ASTM 1557.
- ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- DISPOSAL OF ALL WASTE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- OWNERSHIP OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF EASTERLING & ASSOCIATES, INC., AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF EASTERLING & ASSOCIATES, INC.
- CONSTRUCTION SAFETY: THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE CONTRACTOR'S RESPONSIBILITY.
- 10. EROSION CONTROL: THE SITE WILL BE FULLY DEVELOPED IMMEDIATELY. EROSION PROBLEMS GENERATED BY PHASED DEVELOPMENT WILL NOT, THEREFORE, BE A PROBLEM.

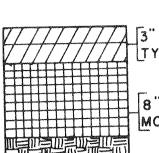
CONSTRUCTION PHASE: THE CONTRACTOR SHALL EXERCISE REASONABLE CARE DURING CONSTRUCTION TO PREVENT THE MOVEMENT OF SEDIMENT FROM THE SITE INTO THE STREET. LOOSE SOIL STOCKPILES IN THE STREET DURING UTILITY CONNECTION ACTIVITIES SHALL BE PROTECTED FROM BEING CARRIED DOWNSTREAM BY FLOWING WATER IN THE STREET.



SECTION B-B (R.R. TIE RETAINING WALL)

1.4252 2.68 0.0629 0.0629 0.0629 0.0629

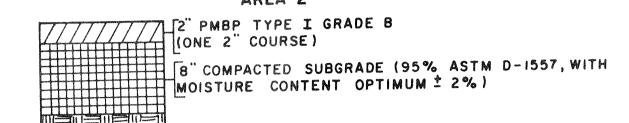
AREA I



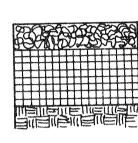
3" PLANT MIX BITUMINOUS PVM'T (PMBP) TYPE I GRADE B (TWO 1-1/2" COURSES)

8" COMPACTED SUBGRADE (95% ASTM D-1557, WITH MOISTURE CONTENT OPTIMUM ± 2%)

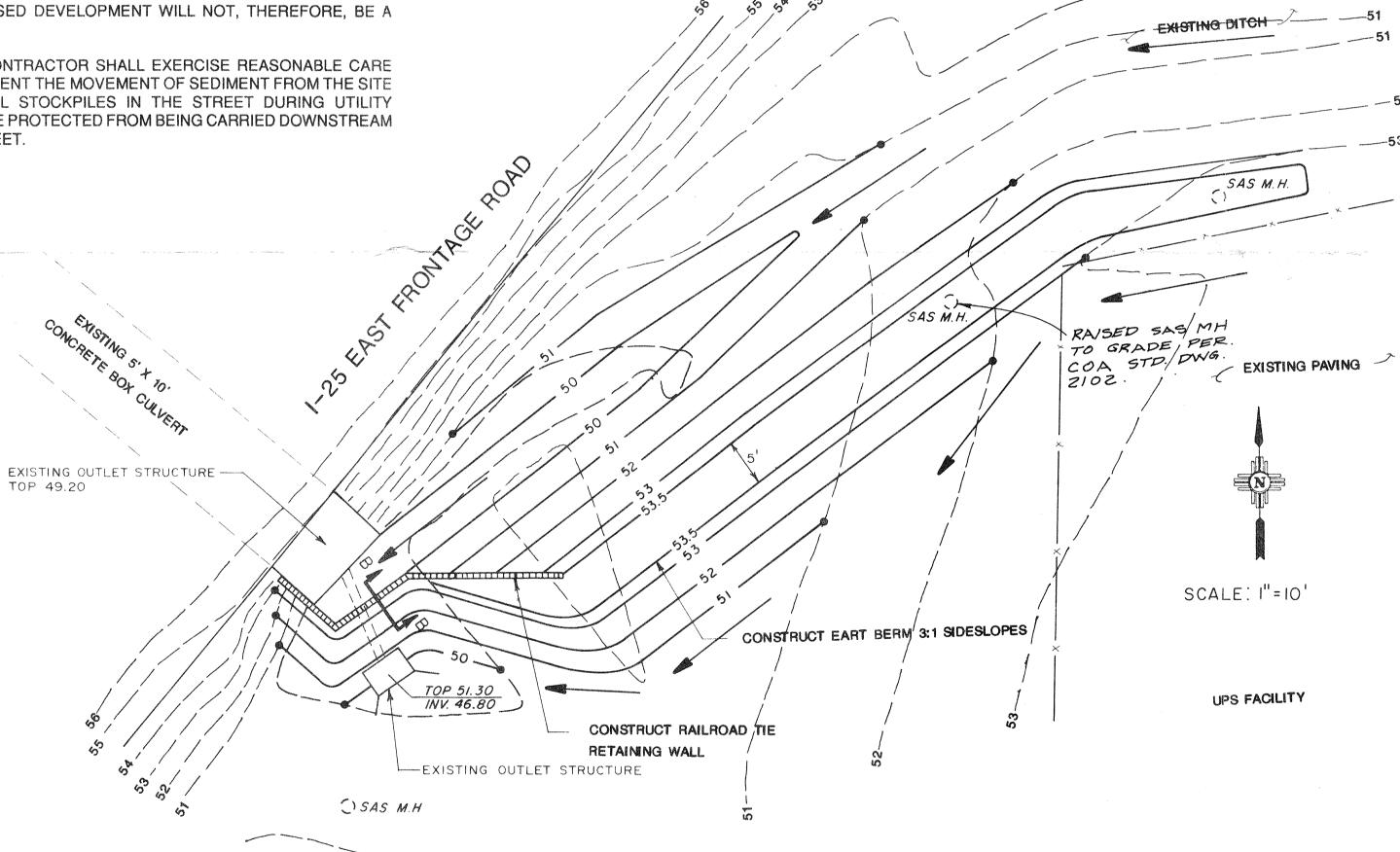
AREA 2



AREA 3



3" AGGREGATE BASE COURSE CLASS II - B
COMPACTED TO 95% ASTM D-1557 8" COMPACTED SUBGRADE (95% ASTM D-1557, WITH MOISTURE CONTENT OPTIMUM ± 2%)



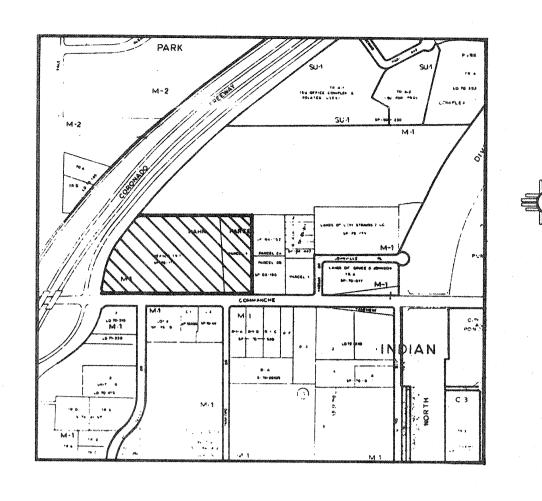
BERM IMPROVEMENTS DETAIL

SOILS INFORMATION FROM SOIL SURVEY U.S.D.A., S.C.S.

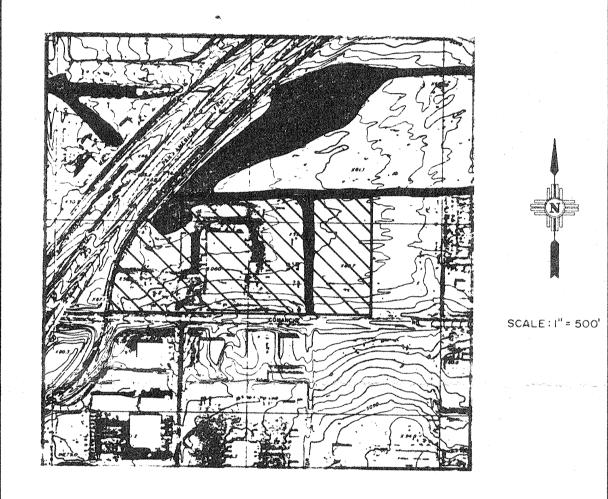
EXISTING RETENTION POND

SOIL SERIES AND MAP SYMBOLS	DEGREE AND KIND OF LIMITATIONS FOR						SUITABILITY AS SOURCE OF				SOIL FEATURES AFFECTING -		
	SEPTIC TANK ABSORPTION FIELDS	SEWAGE LAGOONS	SHALLOW EXCAVATIONS	DWELLINGS WITHOUT BASEMENTS	SANITARY LANDFILL (TRENCH TYPE)	LOCAL ROAD AND STREETS	ROAD FILL	SAND	GRAVEL	TOPSOIL	POND RESERVOIR AREAS	DIKES, LEVEES, AND OTHER EMBANKWENTS	HYDROLOGIC SOIL GROUP
Embudo: EmB, EtC	Slight	Severe: seepage.	Moderate: small stones.	Slight	Severe: seepage.	Slight	Good	Poor: excess fines.	Poor: excess fines.	Poor: small stones.	Seepage	Piping; compressible	В
Wink: WaB, WeB, WM	Slight	Severe: seepage.	Slight	Slight	Severe: scepage.	Slight	Fair: low strength.	Unsuited	Unsuited	Good	Secpage	Piping; erodes easily.	В

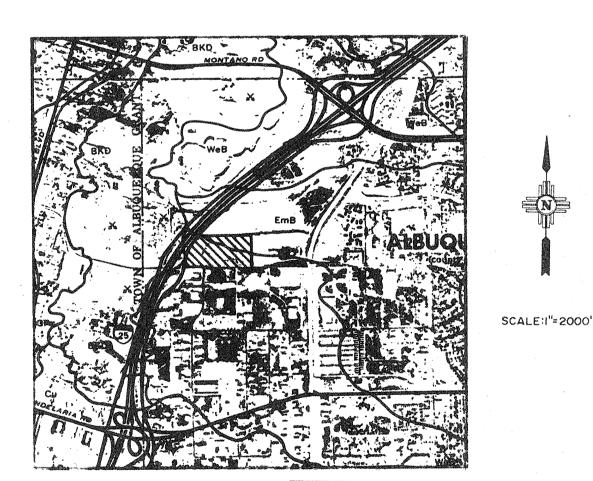
VICINITY MAP ZONE ATLAS MAP NO.



FLOOD HAZARD MAP & OFF-SITE FLOWS FROM F.E.M.A.

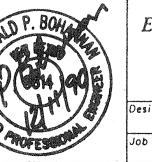


SOILS MAP SOIL SURVEY U.S.D.A., S.C.S.



MAR 2 7 1991 REVISIONS HYDROLOGY DIVISION

UPS GRADING, DRAINAGE & PAVING IMPROVEMENTS



EASTERLING & ASSOCIATES, INC. CONSULTING ENGINEERS 5643 Paradise Blvd. N.W.