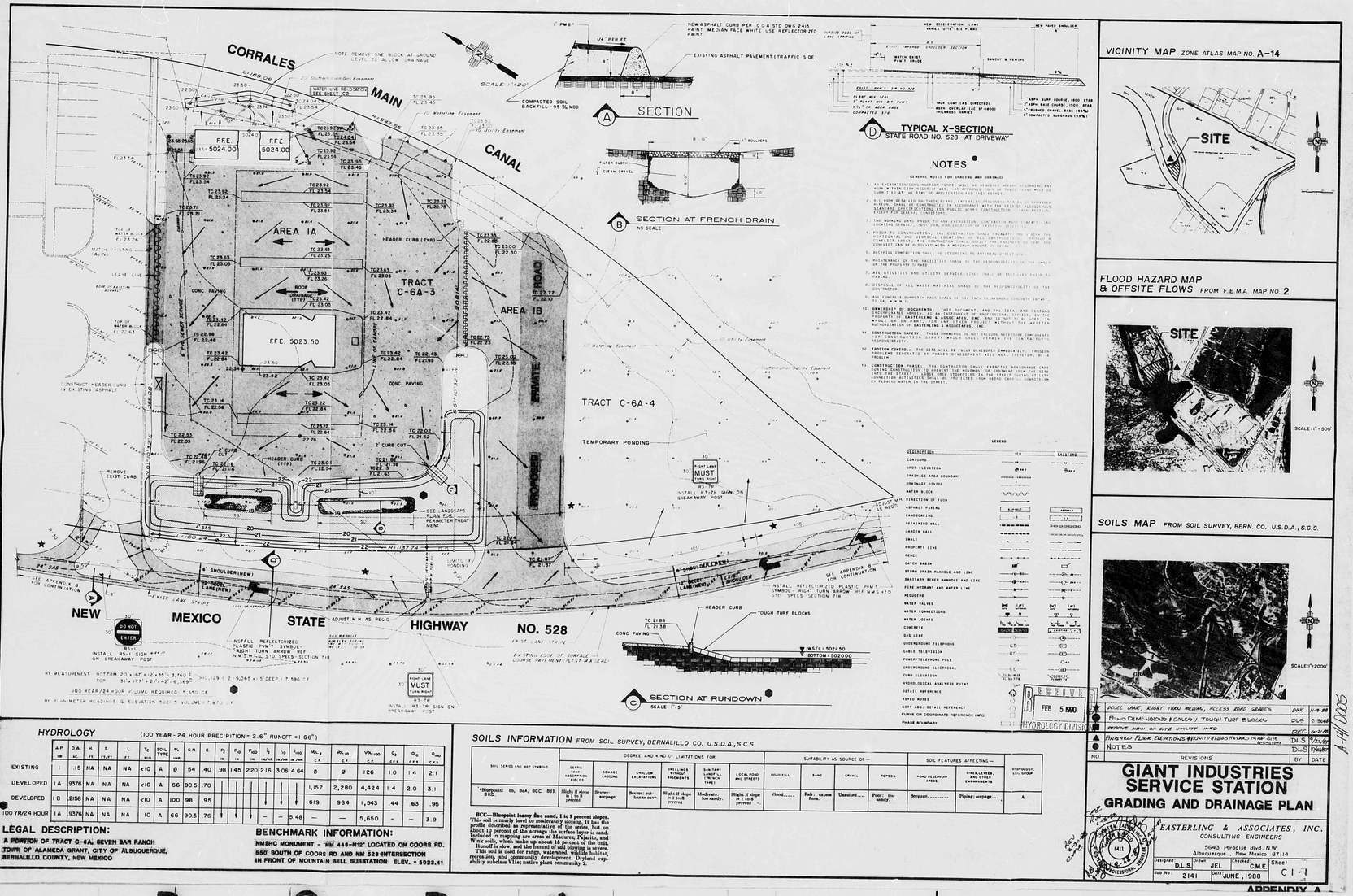

HYDROLOGY

(100 YEAR - 24 HOUR PRECIPITION = 2.6" RUNOFF = 1.66")

	AP ac.	DA ac.	H ft.	D FT/FT	L ft.	T_c MIN.	SOIL TYPE	% IMP.	C.N.	C	P_1 IN.	P_{60} IN.	I_1 IN/HR	I_{60} IN/HR	Q_{60} IN/HR	Vol_{10} C.F.	Vol_{100} C.F.	Q_1 C.F.S.	Q_{10} C.F.S.	Q_{100} C.F.S.
EXISTING	1.1	1.15	NA	NA	NA	<10	A	0	54	.40	.98	1.45	2.20	2.16	3.06	4.64	0	0	126	1.0	1.4	2.1
DEVELOPED	1A	.9376	NA	NA	NA	<10	A	66	90.5	.70							1,157	2,280	4,424	1.4	2.0	3.1
DEVELOPED	1B	.2158	NA	NA	NA	<10	A	100	98	.95							619	964	1,543	.44	.63	.95
100 YR/24 HOUR	1A	.9376	NA	NA	NA	10	A	66	90.5	.76									5,650	–	–	3.9

LEGAL DESCRIPTION:

A PORTION OF TRACT C-6A, SEVEN BAR RANCH
TOWN OF ALAMEDA GRANT, CITY OF ALBUQUERQUE,
BERNALILLO COUNTY, NEW MEXICO

BENCHMARK INFORMATION:

NMSHC MONUMENT - "NM 448-N12" LOCATED ON COORS RD.
550' SOUTH OF COORS RD AND NM 528 INTERSECTION
IN FRONT OF MOUNTAIN BELL SUBSTATION ELEV. = 5023.41

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

SOIL SERIES AND MAP SYMBOLS	DEGREE AND KIND OF LIMITATIONS FOR: SEPTIC TANK ABSORPTION FIELDS	SEWAGE LAGOONS	SHALLOW EXCAVATIONS	DWELLINGS WITHOUT BASEMENTS	SANITARY LANDFILL (TRENCH TYPE)	LOCAL ROAD AND STREETS	SUITABILITY AS SOURCE OF: ROAD FILL	SAND	GRAVEL	TOPSOIL	SOIL FEATURES AFFECTING: POND RESERVOIR AREAS	DIKES, LEVEES, AND OTHER EMBANKMENTS	HYDROLOGIC SOIL GROUP
*Bluepoint: Bh, BkA, BCC, BrE, BKD.	Slight if slope in 1 to 8 percent	Severe: seepage.	Severe: cut-banks cave.	Slight if slope in 1 to 8 percent	Moderate: too sandy.	Slight if slope in 1 to 8 percent	Good.....	Fair: excess fines.	Unsuited...	Poor: too sandy.	Seepage.....	Piping: seepage....	A

BCC—Bluepoint loamy fine sand, 1 to 9 percent slopes. This soil is nearly level to moderately sloping. It has the profile described as representative of the series, but on about 10 percent of the acreage the surface layer is sand. Included in mapping are areas of Madurez, Vastito, and Wink soils, which make up about 15 percent of the unit. Runoff is slow, and the hazard of soil blowing is severe. This soil is used for range, watershed, wildlife habitat, recreation, and community development. Dryland capability subclass VIIe; native plant community 2.

NOTES

GENERAL NOTES FOR GRADING AND DRAINAGE

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL 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 FOR IN THE SPECIFICATIONS, SHALL BE IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1986 EDITION, EXCEPT FOR GENERAL CONDITIONS.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT THE LOCATING SERVICE, 760-1234, FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL STAKE OUT THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL IMPROVEMENTS SHOWN ON THESE PLANS. IF ANY DISCREPANCIES ARE FOUND BETWEEN THE PLANS AND THE CONFIGURATION OF THE EXISTING GROUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. BACKFILL COMPACTION SHALL BE ACCORDING TO APPROVAL DIRECT USE.
6. MAINTENANCE OF THE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
7. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
8. DISPOSAL OF ALL WASTE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
9. ALL CONCRETE DUMPSTER PADS SHALL BE 6" (SIX INCH) REINFORCED CONCRETE (6"-SK, 4000 P.S.I.).
10. 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 SHALL NOT BE USED IN WHOLE OR IN PART ON ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF EASTERLING & ASSOCIATES, INC.
11. CONSTRUCTION SAFETY: THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE CONTRACTOR'S RESPONSIBILITY.
12. EROSION CONTROL: THE SITE WILL BE FULLY DEVELOPED IMMEDIATELY. EROSION CONTROL IS NOT DESIGNATED BY PHASED DEVELOPMENT WILL NOT BE REQUIRED, AS A PROBLEM.
13. CONSTRUCTION PHASE: THE CONTRACTOR SHALL EXERCISE REASONABLE CARE DURING CONSTRUCTION TO PREVENT THE MOVEMENT OF SEDIMENT FROM THE SITE ONTO THE STREET. ADOBE SOIL STOCKPILED ON THE SITE FOR USE IN CONSTRUCTION ACTIVITIES SHALL BE PROTECTED FROM RAINS SUCH CONDITIONS OF PONDING WATER IN THE STREET.

NO.	REVISIONS	BY	DATE
1	PEDESTAL LANE, RIGHT TURN MEDIAN, ACCESS ROAD GRADES	DAC	11-7-88
2	POND DIMENSIONS & CALCS / TOUGH TURF BLOCKS	CLG	12-5-88
3	REMOVE NEW ON SITE UTILITY INFO	DEC	6-21-89
4	FINISHED FLOOR ELEVATIONS, VICINITY & FEMA FLOOD HAZARD MAP, SITE REVISIONS	DLS	9/22/89
5	NOTES	DLS	10/4/89

GIANT INDUSTRIES SERVICE STATION
GRADING AND DRAINAGE PLAN

EASTERLING & ASSOCIATES, INC.
CONSULTING ENGINEERS
5643 Paradise Blvd. N.W.
Albuquerque, New Mexico 87114

Designed D.L.S. | Drawn JEL | Checked C.M.E. | Sheet C1-1
Job No. 2141 | Date JUNE, 1988

APPENDIX A

VICINITY MAP ZONE ATLAS MAP NO. A-14

FLOOD HAZARD MAP & OFFSITE FLOWS FROM F.E.M.A. MAP NO. 2

SOILS MAP FROM SOIL SURVEY, BERN. CO. U.S.D.A., S.C.S.

RECEIVED FEB 5 1990 HYDROLOGY DIVISION

Ref. 21 DATE 2-2-92 OF ED7

CITY OF ALBUQUERQUE

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Karen Adams
CITY CLERK RECORDER

OFFICIAL SEAL NORBERTA SANCHEZ NOTARY PUBLIC STATE OF NEW MEXICO
My Commission Expires MAY 8 1993
Norberta Sanchez

THIS PLAN SHOT TWICE ONCE ON LIGHT AND ONCE ON DARK.

CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT.

PLANS/PLATS ON FILE

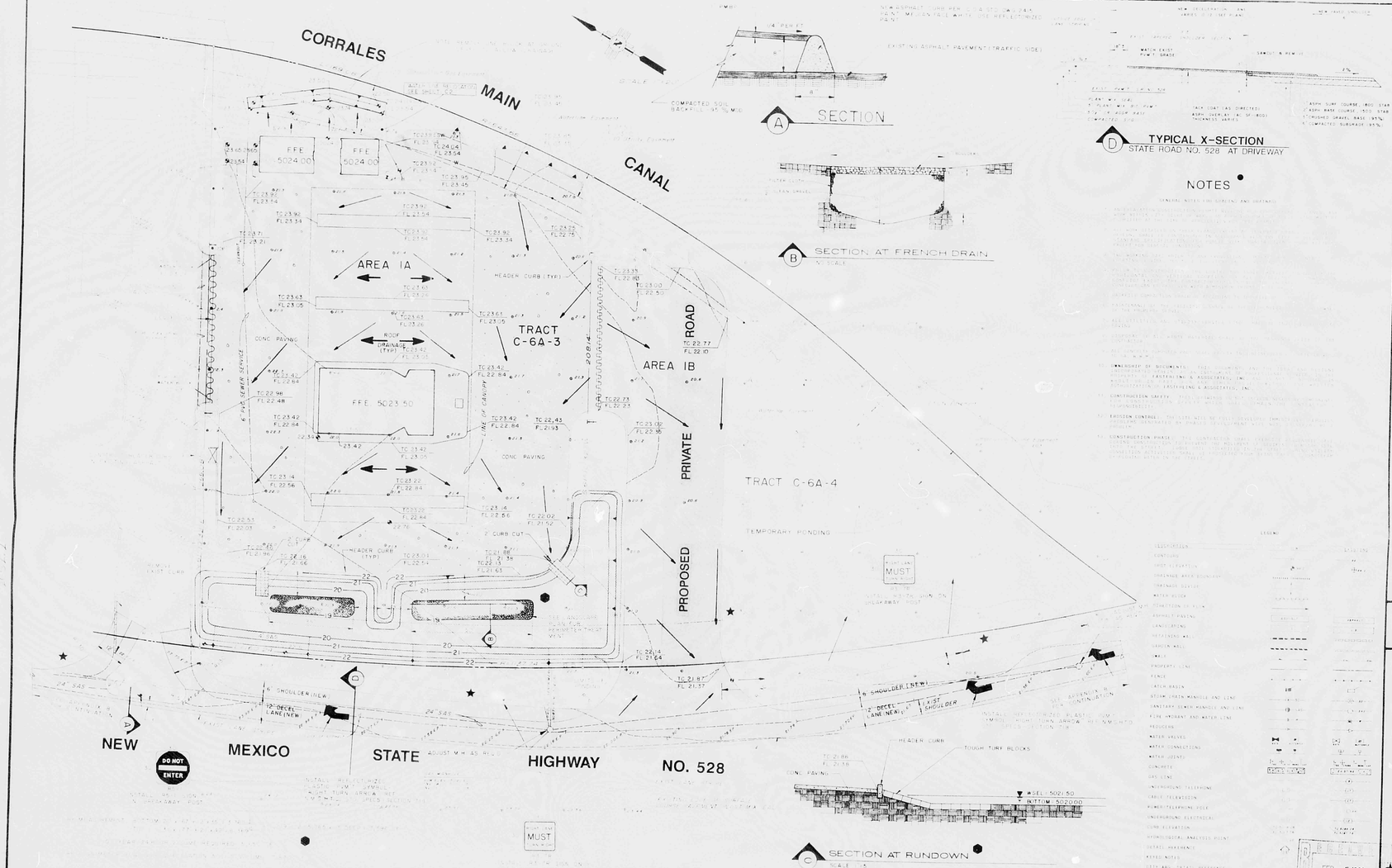
FILE DESC: A-14 / D005

PLANS/PLATS 1

A-14 D005

2652.2

F 30 D 24 C 20 B 16 A 12 | CITY OF ALBUQUERQUE | C D F



A SECTION

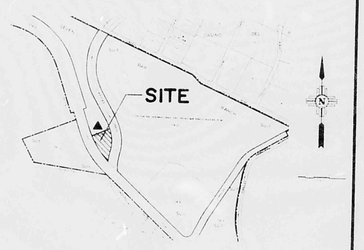
B SECTION AT FRENCH DRAIN

SECTION AT RUNDOWN

D TYPICAL X-SECTION
STATE ROAD NO. 528 AT DRIVEWAY

NOTES •

VICINITY MAP ZONE ATLAS MAP NO. A-14



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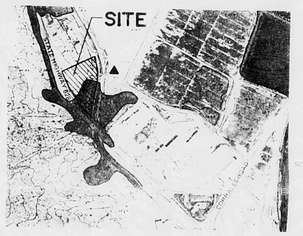

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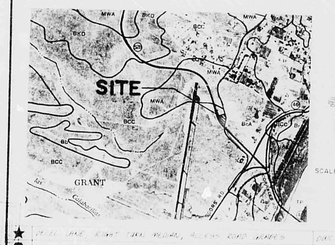

FEB 5 1990

HYDROLOGY

(100 YEAR - 24 HOUR PRECIPITATION = 2.6" RUNOFF = 1.66")

	AP	DA	H	S	Tc	SOIL TYPE	%	CN	C	P1	P10	P100	V1	V10	V100	Vol 2	V10-100	V24-100	Q1	Q10	Q100
		AC	%	FT	FT/FT		MP			IN	IN	IN	CF	CF	CF	CF	CF	CF	CFS	CFS	CFS
EXISTING	1	1.5	NA	NA	NA	<10	A	0	54	40	98	46	220	216	306	406	0	0	126	10	4	21
DEVELOPED	A	9376	NA	NA	NA	<10	A	66	90.5	70												
DEVELOPED	B	2158	NA	NA	NA	<10	A	100	98	95												
DEVELOPED	A+B	9376	NA	NA	NA	10	A	66	90.5	76							619	964	1,543	44	63	95
100 YR/24 HOUR																						

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

Soil name and map symbol	Degree and kind of limitations for						Suitability as source of				Soil features affecting		Hydrologic group
	Dwellings without basements	Dwellings with basements	Small commercial buildings	Shallow excavations	Sanitary landfill (trench type)	Local roads and streets	Road fill	Sand	Gravel	Topsoil	Highway location and drainage	Gullies, rills and other impairments	
*Bluepoint loamy fine sand, 0 to 9 percent slopes. BCC	Slight if slope is 1 to 5 percent	Severe: seepage.	Severe: cut banks cave.	Slight if slope is 1 to 5 percent	Moderate: too sandy.	Slight if slope is 1 to 5 percent	Good.	Fair: excess fines.	Unsuited.	Poor: too sandy.	Seepage.	Piping, seepage.	A

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GIANT INDUSTRIES SERVICE STATION
GRADING AND DRAINAGE PLAN

CHARLES M. EASTERLING 6411 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER

EASTERLING & ASSOCIATES, INC.
CONSULTING ENGINEERS
5645 Paradise Blvd. N.W.
Albuquerque, New Mexico 87114

Project D.L.S. | Drawn JEL | Checked C.M.E. | Sheet C-1
Job No. 2141 | Date JUNE, 1988

APPENDIX A

THIS PLAN SHOT TWICE
ONCE ON LIGHT AND
ONCE ON DARK.

CITY OF ALBUQUERQUE
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Karen Aiken
CITY CLERK RECORDER

OFFICIAL SEAL
NORBERTA SANCHEZ
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires MAY 8 1993

Norberta Sanchez

A-111005

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CITY OF ALBUQUERQUE

C D