

Sector Development Plan



#### Nor Este Sector Development Plan

Originally Adopted by the City Council on 05/18/87 and signed by the Mayor on 06/04/87 City Ordinance No. O-114 and City Enactment No. 23-1987

#### Amendments:

This Plan incorporates the City of Albuquerque amendments in the following referenced Resolutions, which are inserted at the end of the Plan and are on file with the City Clerk's Office. Resolutions adopted from December 1999 to the present date are also available (search for No.) on City Council's Legistar webpage at <a href="https://cabq.legistar.com/Legislation.aspx">https://cabq.legistar.com/Legislation.aspx</a>.

| Date     | Council<br>Bill No. | City<br>Enactment<br>No. | Plan<br>References | (see<br>Note<br>1) | Description                                       |
|----------|---------------------|--------------------------|--------------------|--------------------|---|
| 11/16/17 | R-17-213            | R-2017-102               |                    | NA                 | Repealing Resolutions & Plans-Replaced by the IDO |

#### **Notes:**

- 1. The amendments in the Resolutions may or may not be reflected in the Plan text: "Yes" in this column indicates they are; "No" indicates they are not.
- 2. This Plan may include maps showing property zoning and/or platting, which may be dated as of the Plan's adoption. Refer to the Albuquerque Geographic Information System (AGIS) for up-to-date zoning and platting information at <a href="http://www.cabq.gov/gis">http://www.cabq.gov/gis</a>.

#### SD - 36 - 3

#### NOR ESTE

#### SECTOR DEVELOPMENT PLAN

I certify that this document is in accordance with the recommendations of the Environmental Planning Commission dated February 11, 1987; and with the approval granted by the City Council on May 18, 1987.

| <br>Planning Director                                 | 11/24/87<br>Date |
|---|------------------|
| Didw. Hamon   | 11/24/87         |
| Transportation Development Division, Traffic Engineer | Date //          |
| Parks and Recreation  Ion E. Entspaand                | Date             |
| Utilities Development Division, City Engineer         | Date             |
| City Engineer, AMAFCA                                 | 11-34-3<br>Date  |

# Underscored Naterial - New ZBracketed Haterial - Deletion

# CITY of ALBUQUERQUE SEVENTH COUNCIL

COUNCIL BILL NO. 0-114 ENACTMENT NO. 23-1987

SPONSORED BY:

Patrick J. Baca

|     | ·   |
|-----|---|
| 1   | ORDINANCE   |
| 2   | ANNEXING CERTAIN TRACTS OF LAND WITHIN AN AREA GENERALLY BOUNDED BY   |
| 3   | WYOMING BOULEVARD N.E., MODESTO AVENUE N.E., BARSTOW STREET N.E.,     |
| 4   | AND THE NORTH DOMINGO BACA ARROYO, INCLUDING THE ADJACENT RIGHTS OF   |
| 5   | WAY AND MORE PARTICULARLY DESCRIBED IN SECTION 1. BELOW, CONTAINING   |
| 6   | APPROXIMATELY 176 ACRES, TO THE CITY OF ALBUQUERQUE. NEW MEXICO       |
| 7   | ADOPTING THE NOR ESTE SECTOR DEVELOPMENT PLAN; AND AMENDING THE ZONE  |
| . 8 | MAP OF THE CITY OF ALBUQUERQUE:                                       |
| 9   | WHEREAS, the owner of a majority of the area to be annexed and        |
| 10  | herein below described in this Ordinance, which land is contiguous    |
| 11  | to the boundaries of the City of Albuquerque, New Mexico, has         |
| 12  | heretofore presented a petition properly signed, petitioning, the     |
| 13  | Governing Body of the City of Albuquerque, New Mexico, to pass and    |
| 14  | adopt an Ordinance annexing said land to the City:                    |
| 15  | BE IT ORDAINED BY THE COUNCIL, THE GOVERNING BODY OF THE CITY OF      |
| 16  | ALBUQUERQUE:  |
| 17  | Section 1. The following territory is hereby annexed to and           |
| 18  | made a part of the City of Albuquerque for all purposes upon filing   |
| 19  | a copy of this Ordinance in the office of the County Clerk of         |
| 20  | Bernalillo County, New Mexico, and publication of this Ordinance      |
| 21  | according to law:   |
| 22  | A. All of Blocks 11, 12, 13, 16, 17, and Lots 8-21, Block             |
| 23  | 18, Tract 2, Unit 3, North Albuquerque Acres; filed in the office of  |
| 24  | the County Clerk of Bernalillo County, New Mexico, on April 24, 1936; |
| 25  | B. The following described right-of-way:                              |
| 26  | 1. Wyoming Blvd. from the north right-of-way of                       |

33

|    | Alameda Biva., to the north right-or-way or nodesto Avenue.           |
|----|---|
| 2  | 2. Modesto Ave. from the east right-of-way of Wyoming                 |
| 3  | Blvd., to the west right-of-way of Barstow St.                        |
| 4  | <ol><li>Barstow St. from the north right-of-way of</li></ol>          |
| 5  | Modesto, to the north right-of-way of Alameda; and from the south     |
| 6  | right-of-way of Wilshire, to the south right-of-way of Carmel Ave.    |
| 7  | 4. All of Eagle Rock, Oakland, Corona, and Anaheim                    |
| 8  | Avenues, between the east right-of-way of Wyoming, to the west        |
| 9  | right-of-way Barstow.   |
| 10 | 5. All of Carmel Ave. from the west right-of-way of                   |
| 11 | Barstow, to the west property line of Lot 21, Block 18, Tract 2,      |
| 12 | Unit 3, North Albuquerque Acres.                                      |
| 13 | Comprising a total of approximately 176 acres.                        |
| 14 | Section 2. The <u>Nor Este Sector Development Plan</u> , which is     |
| 15 | comprised of two coordinated sector development plans, Nor Este I     |
| 16 | and Nor Este II, covering the area hereby annexed, is adopted as a    |
| 17 | Rank Three plan. The plan documents, which are attached hereto and    |
| 18 | made a part hereof, are comprised of a book, the appendices of which  |
| 19 | are not adopted; seven separately bound Exhibit sheets; and a set of  |
| 20 | amendments of the above, "Addendum/Nor Este Sector Development Plan." |
| 21 | Section 3. The zone map, adopted by Section 7-14-46.C., R. O.         |
| 22 | 1974, is hereby amended as follows:                                   |
| 23 | A. Establishment of RO-1 zoning for Lots 28-32, Block 16              |
| 24 | and Lots 15 and 16, Block 18, Tract 2, Unit 3, North Albuquerque      |
| 25 | Acres.  |
| 26 | B. Establishment of RD zoning for the remainder of the                |
| 27 | property described in Section 1.                                      |
| 28 | Section 4. Effective Date and Publication. This ordinance             |
| 29 | shall become effective five days after publication in full. In        |
| 30 | addition, the annexation specified in Section 1 hereof shall take     |
| 31 | effect only after a copy of this ordinance and a plat of the          |
| 32 | territory hereby anneyed is filed in the office of the County Clerk   |

|   | 1        | PASSED AND ADDPTED THIS 18TH DAY OF May,  |
|---|----------|---|
|   | 2        | 1987.                                     |
|   | 3        | BY A VOTE OF8 FOR ANDO AGAINST.           |
|   | 4        | Yes: 8<br>Excused: Hoover                 |
|   | 5        | Excuseu: nuuvei                           |
|   | 6        | 0 + 1/0                                   |
|   | 7        | Patrick J. Baca President                 |
|   | 8        | City Council                              |
|   | 9        |   |
|   | 10       |   |
|   | 11       | APPROVED THIS 4th DAY OF June, 1987.      |
| _   | 12       | 0   |
| et le   | 13       | Les Aller                                 |
| Underscored Material - New racketed Material - Deletion | 14       | Ken Schultz, Mayor<br>City of Albuquerque |
|   | 15       | over or misaque que                       |
| Underscored Mater                                       | 16       |   |
| a ted   | 17       | ATTEST:                                   |
| er sc   | 18       | $\approx$ 1 $\sim$ 1                      |
|   | 19       | City Clerk                                |
| ₹4  |          |   |
|   | 21       |   |
|   | 22       |   |
|   | 23       |   |
|   | 24       |   |
|   | 25       |   |
|   | 26<br>27 |   |
|   |          |   |
|   | 28<br>29 |   |
|   | 30       |   |
|   | 31       |   |
|   | 32       | •   |
|   | 32       |   |
|   | , 1.1    |   |

## NOR ESTE SECTOR DEVELOPMENT PLAN

Prepared for:

PRESLEY COMPANY

OF

**NEW MEXICO** 

Prepared by:

ESPEY, HUSTON & ASSOCIATES, INC.

December 1986
Revised per E.P.C. Conditions 2/11/87
Revised per City Council Approval 5/18/87

# NOR ESTE SECTOR DEVELOPMENT PLAN

#### TABLE OF CONTENTS

| Section    |   | Page |
|------------|---|------|
|            | DRB Ratification                          | iv   |
|            | Enabling Legislation                      | v    |
| I          | INTRODUCTION                              | 1    |
| П          | DEVELOPMENT ISSUES                        | 6    |
| Ш          | ENVIRONMENTAL CONDITIONS                  | 15   |
| IV         | LAND USE                                  | 18   |
| V          | TRANSPORTATION                            | 35   |
| VI         | DRAINAGE AND FLOOD CONTROL                | 44   |
| VII .      | UTILITIES                                 | 52   |
| νш         | PROGRAM DEVELOPMENT                       | 58   |
|            |   |      |
| APPENDIX A | Archaeological Survey                     | A-1  |
| APPENDIX B | Trip Generation Summary/Rates/Assignments | B-1  |
| APPENDIX C | Statements of Utility Availability        | C-1  |

#### LIST OF FIGURES

| <b>Figure</b> |   | Page |
|---------------|---|------|
|               |   |      |
| 1             | Vicinity Map  | 4    |
| 2             | Comprehensive Plan Map                              | 9    |
| 3             | Existing Land Use/Zoning Map                        | 20   |
| 4             | Concept Three - La Cueva High School Land Use Guide | 22   |
| 5             | Facility Plan for Arroyos                           | 28   |
| 6             | Density Management Plan/Dwelling Units              | 32   |
| 7             | Long Range Major Street Plan                        | 37   |
| 8             | Existing and Proposed Rights-of-Way                 | 38   |
| 9             | Bikeways Master Plan                                | 40   |
| 10            | Crossing Structures                                 | 41   |
| 11            | Utilities - Water Lines                             | 54   |
| 12            | Utilities - Sanitary Sewer                          | 55   |

## LIST OF EXHIBITS

#### Exhibit

| I    | Soils/Slopes/Elevations              |
|------|--------------------------------------|
| П    | Proposed Land Use                    |
| ш    | Conceptual Park/Channel Landscaping  |
| IV   | Drainage Basin Boundary Map          |
| V    | Existing On-Site Drainage Conditions |
| VI   | Drainage Management Plan             |
| VII  | Utilities Plan                       |
| VIII | Zone Map                             |



### SECTION I INTRODUCTION

#### INTRODUCTION

North Albuquerque Acres is characterized by a variety of issues which have significantly altered the pattern, timing and direction of growth of metropolitan Albuquerque. The NOR ESTE SECTOR DEVELOPMENT PLAN represents the first effort consistent with City Policies to consolidate and replat parcels in North Albuquerque Acres since the Heritage Hills East Sector Development Plan (1982). The catalyst for the NOR ESTE SECTOR DEVELOPMENT PLAN has been the recent construction and opening of La Cueva High School, and the recently approved La Cueva High School Land Use Guide (1986), prepared through the cooperative efforts of area-wide residents, landowners, and various City and County authorities.

Much of the background information for NOR ESTE had been previously established through the approval of such documents as the Subareas Master Plan for the Developing Urban Area of North Albuquerque Acres and La Cueva High School Land Use Guide. As such, the NOR ESTE SECTOR DEVELOPMENT PLAN relies upon and references these documents throughout the following discussion.

Presley Company of New Mexico is very pleased to present the NOR ESTE SECTOR DEVELOPMENT PLAN for approval, together with concurrent requests for annexation to the Municipal Limits of Albuquerque and establishment of zoning. Presley Company has been and continues to be dedicated to quality growth in Albuquerque.

Lew Wilmot, President

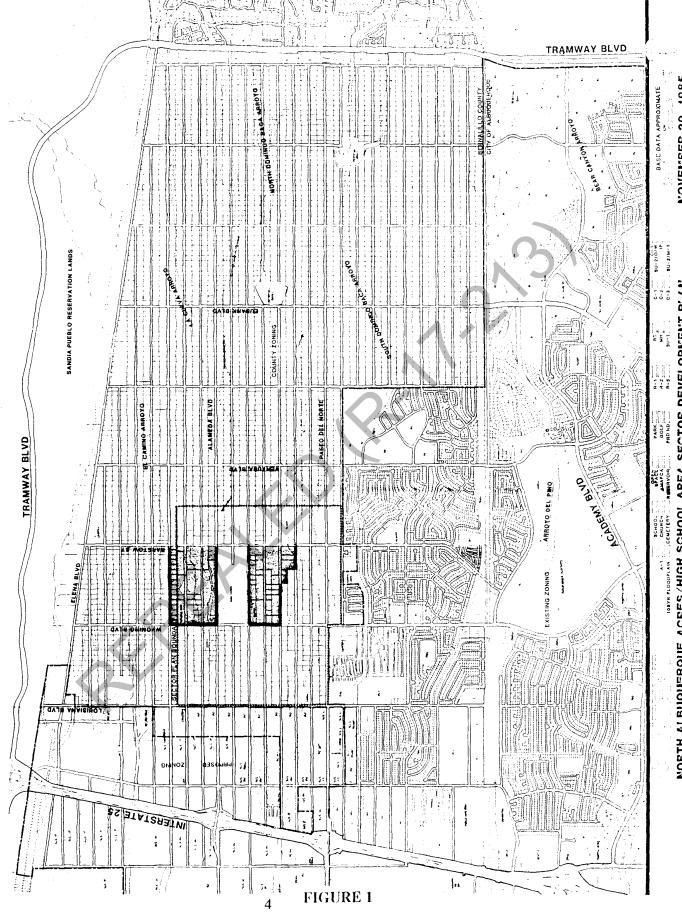
Presley Company of New Mexico

#### LOCATION AND SETTING

The NOR ESTE SECTOR DEVELOPMENT encompasses approximately 176 acres in the far northeast heights of metropolitan Albuquerque, and is part of the original 1930's platting of North Albuquerque Acres. The Sandia Pueblo lies approximately three-quarters of a mile north of NOR ESTE, and is considered by the Comprehensive Plan to be the northern limit of urbanization of Albuquerque. To the east lie the Sandia Mountains and lands preserved as National Forest and open space. The site affords vistas of the Sandia Mountains to the east, the Rio Grande valley bosque areas, and volcanoes to the west (Figure 1). Primary access to the far northeast heights of Albuquerque is presently provided by the major north-south arterials, Louisiana Boulevard, Wyoming Boulevard and Tramway Boulevard, and from the east and west by Paseo del Norte and Alameda Boulevard which are served by interchanges at I-25. Paseo del Norte is planned to bridge the Rio Grande and connect with the west side.

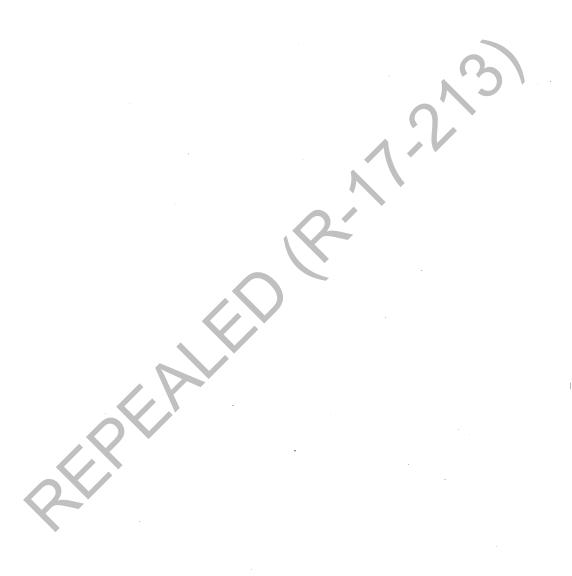
NOR ESTE consists of two parcels of land, separated by the recently constructed La Cueva High School. The north parcel, identified as "Window D" (expanded by EPC action 10/2/86), contains approximately 98 acres. The south parcel, identified as "Window F", contains approximately 78 acres. These "windows" are identified by this Sector Development Plan as NOR ESTE I and II, respectively.

NOR ESTE I is bounded north and south by Modesto and Alameda, respectively. NOR ESTE II is bounded on the north by Wilshire, and on the south by Anaheim and Carmel. Both parcels are bounded on the east and west by Barstow and Wyoming. The municipal limits of Albuquerque presently extend north from Paseo del Norte along Wyoming and encompass the La Cueva High School area between the two parcels. NOR ESTE I and II are principally accessed from the north and south by Wyoming, and from the east and west by Alameda and Paseo del Norte.



NORTH ALBUQUEROUE ACRES/HIGH SCHOOL AREA SECTOR DEVELOPMENT PLACK
DAMAD DEFENDANCE AND DEPARTMENT D

Both sites are characterized by platted rectangular blocks of land, subdivided into one-acre parcels, primarily bounded by unimproved roadways, and partially encumbered by 100-year floodplains, resulting in a monotonous and uniform grid pattern, with many undevelopable parcels. The 1930's platting of North Albuquerque Acres was not sensitive to the natural environment, slopes, or drainage constraints of the northeast mesa.





# SECTION II DEVELOPMENT ISSUES

#### PLANNING FRAMEWORK

The NOR ESTE SECTOR DEVELOPMENT PLAN is included within and governed by the following adopted plans and policies:

#### RANK I

Albuquerque/Bernalillo County Comprehensive Plan Elements:

- 1. Metropolitan Areas and Urban Centers Plan (1975)
- 2. Policies Plan (1975)
- 3. Plan for Major Open Space (1975)

#### RANK II

Subareas Master Plan for the Developing Urban Area of North Albuquerque Acres (1978)

Facilities Plan for Arroyos (1986)

Long Range Major Street Plan (1986)

Master Plan of Water Supply (1982 Update)

Areawide Wastewater Treatment and Facilities Plan (1978)

#### OTHER

La Cueva High School Land Use Guide (1986)

#### RANK I

#### ALBUQUERQUE/BERNALILLO COUNTY COMPREHENSIVE PLAN

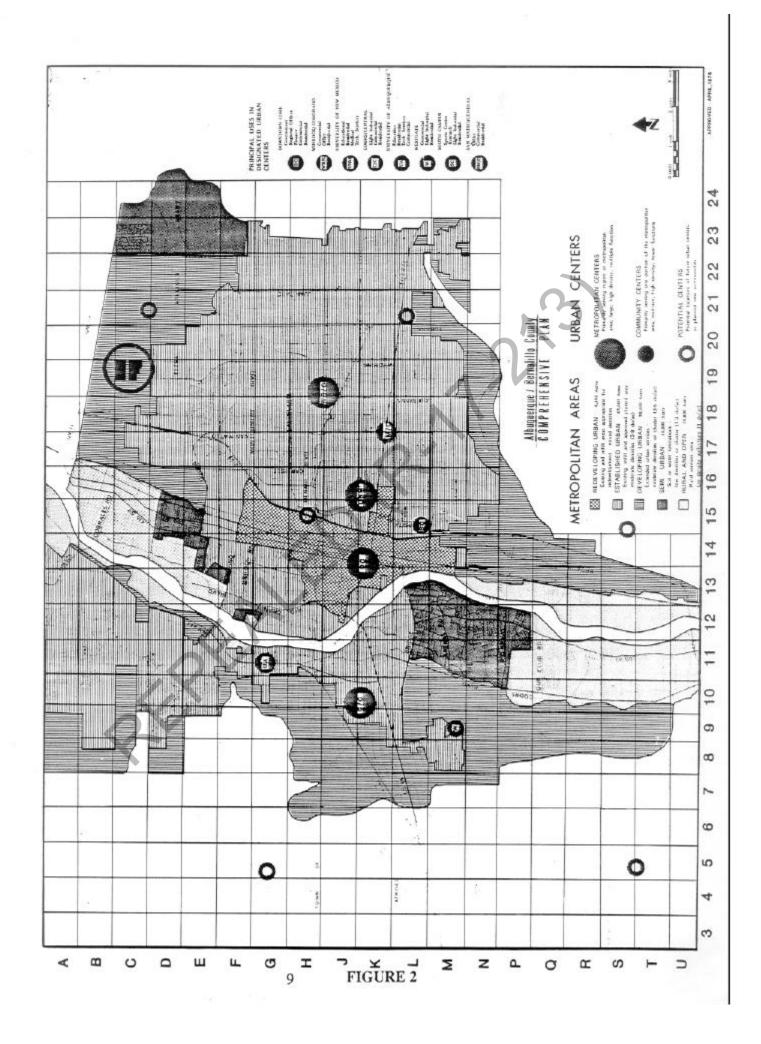
#### Metropolitan Areas and Urban Centers Plan:

The site is located within the Developing Urban Area of the Albuquerquel Bernalillo County Comprehensive Plan, which recommends moderate residential densities or cluster development of 3-6 dwelling units per acre (du/ac) (Figure 2). The Developing Urban Area is described in this plan "to include master planned and uncommitted areas without accepted and approved platting which have adequate resource capabilities for urbanization. A full range of services would be extended to this area in an orderly manner. Development in the area would be subject to the Policies Plan and other pertinent guidelines and requirements such as the Comprehensive City Zoning Ordinance. Overall densities within this area would be moderate, ranging from 3 to 6 dwelling units per acre, and should include clustered development. Mapping of Developing Urban areas follows the policy to encourage development on the northeast, southeast, and west mesas (Policy A.1.a). The map delineates those mesa areas considered suitable for urbanization in terms of natural resource capacities and urban service potential."

#### Policies Plan:

The intent of the *Policies Plan*, the first basic element of the Comprehensive Plan, "is to outline the role of local government in transforming uncontrolled growth into quality development which is socially, economically, and ecologically sound."

The *Policy Plan* "Goal and Policy" statements applicable to the NOR ESTE SECTOR DEVELOPMENT PLAN are: Policies A.1.a. and g.; A.2.d., e., f., l. and o.; A.4.a., b., c. and d.; A.5.a., e., g., k. and p.; B.1.a., b. and c.; B.2.a., b. and c.; B.3.a., b. and c.; B.5.d.; and B.6.d.



#### Plan for Major Open Space:

The Plan for Major Open Space addresses the provision of open space surrounding the City. These open areas are intended to serve the recreational needs of people as well as to psychologically and visually offset urbanization. The Plan for Major Open Space identifies the arroyo channels in North Albuquerque Acres, outside of the 10-year storm, as possibly appropriate for public recreation. This may include the area between the 10-year storm and 100-year storm, or adjacent areas. Suggested techniques for implementation include dedication, fee simple purchase, shared purchase with other public agencies for multiple uses, negotiation within the existing park dedication policy, or land banking.

#### RANK II

Subareas Master Plan for the Developing Urban Area of North Albuquerque Acres:

This plan recognized that obsolete platting, drainage patterns, topography and diverse land ownership were serious impediments to urban development in North Albuquerque Acres. The Subareas Master Plan was designed to serve as "a guideline for private development and for the location and sequence of public improvements." The plan also prescribes requirements for development, and most importantly, states that no development should occur in North Albuquerque Acres until the adoption of sector development plans for the subareas. The entire area was divided into subareas primarily based upon drainage and topographic concerns, under the assumption that the subareas would be independent development areas sequenced for development through privately initiated sector development plans.

#### The Facility Plan For Arroyos:

This plan addresses multiple-use of Albuquerque's arroyos and their floodplains, and designates the La Cueva Arroyo as a major open space link. As such, the drainageway could also serve as a recreational connection between the Sandia Foothills and the Rio Grande bosque. The Facility Plan for Arroyos has been adopted by the Bernalillo County Commission and the Albuquerque City Council.

#### Long-Range Major Street Plan:

This plan identifies major and minor arterials and collector streets and defines right-of-way widths and roadway characteristics for the major streets.

#### Master Plan of Water Supply (1982 Update):

The 1963 Master Plan of Water Supply, updated in 1982, represents the results of a comprehensive study of the Albuquerque water system. Its purpose is to guide the City in logically and efficiently developing the system. The 1982 Update consists of the text and maps which embody the design methodology, ultimate network configuration, and production, storage and transmission facility requirements of the system. The Master Plan of Water Supply is used by the City in the planning, design and construction of lines, wells, pump stations and reservoirs throughout the Capital Improvements Program.

Albuquerque Areawide Wastewater Collection and Treatment Facilities Plan

The wastewater facilities plan represents the results of a comprehensive study of the City's wastewater collection and treatment system. The facilities plan was prepared as a prerequisite for federal wastewater grant funds, and

includes an analysis of the interceptor system, treatment needs, sludge handling, and an environmental impact statement. The plan was adopted in 1978 by the City of Albuquerque under joint powers agreements with the Villages of Corrales, Tijeras and Los Ranchos de Albuquerque, and Bernalillo County.

#### **OTHER**

#### La Cueva High School Land Use Guide:

This Guide was prepared through the cooperative efforts of area landowners, residents, and public officials in response to various development proposals and the planned construction of La Cueva High School. As noted in the Subareas Master Plan, urbanization of North Albuquerque Acres has been hampered by a multitude of issues, primarily diversity of ownership. The Guide establishes a series of "windows" through which development may occur based upon the willingness of property owners to cooperate in the formulation of a Sector Development Plan. The significance of these "windows" is that they represent a reduction in size of areas to be Sector Planned, as previously identified in the Subareas Master Plan. The Guide also established six governing concepts for development of this area.

#### DEVELOPMENT ISSUES ANALYSIS

While each of the plans outlined under PLANNING FRAMEWORK is, to some degree, pertinent to NOR ESTE, many of the specific objectives are more directly related to specific site plans or subdivision designs, while others refer to areawide concepts requiring more extensive development before they would apply.

However, the NOR ESTE SECTOR DEVELOPMENT PLAN is consistent with the goal and policy statements of these plans. While the full extent of this compliance will become apparent throughout the remainder of this report, major objectives applicable to this sector plan have been addressed as follows:

NOR ESTE is located within the Developing Urban Area of the <u>Albuquerque/Bernalillo County Comprehensive Plan</u>. As such, overall densities should be "moderate, ranging from 3 to 6 dwelling units per acre, and should include clustered development... Development in the area would be subject to the <u>Policies Plan</u> and other pertinent guidelines and requirements such as the <u>Comprehensive City Zoning Ordinance</u>."

In keeping with this, the NOR ESTE SECTOR DEVELOPMENT PLAN includes a density management plan intended to maintain densities in the 3 to 6 dwelling units per acre range, while permitting a range of housing options, including Single Family Detached, Townhouse, and Multi-Family.

The Policies Plan, which represents the second element of the Comprehensive Plan, has the following among its stated goals: To preserve the unique natural features of the metropolitan area by achieving a pattern of development and open space respecting the river lands, mesas, mountains, volcanoes, and arroyos; to achieve a quality urban environment which perpetuates the tradition of identifiable, individualistic communities within the metropolitan area; to set aside accessible and useable open spaces within each neighborhood; and to provide a balanced circulation system through

encouragement of bicycling, walking, and use of mass transit as alternatives to automobile travel, while providing sufficient roadway capacity to meet mobility and access needs.

NOR ESTE has been conceived from the start as a distinctive development in keeping with these goals. As further described in the Land Use Section, NOR ESTE strives to achieve "mixed-use" inasmuch as is appropriate under subsequent adopted policies such as the La Cueva High School Land Use Guide. Residential areas have been planned to encourage site-sympathetic layout and design. And, in keeping both with these goals and the further objectives of the Plan for Major Open Space, recreation, as well as bicycle, pedestrian, and equestrian trail links, is provided by a 9-acre park incorporating the La Cueva Arroyo.

The remaining "Rank II" and "Other" plans outlined in the PLANNING FRAMEWORK are intended to reinforce the <u>Comprehensive Plan</u> and offer more specific means to obtain the goals outlined above. It is the methodology derived from these more specific plans and guides which comprises the remainder of this sector development plan.



# SECTION III ENVIRONMENTAL CONDITIONS

#### **ENVIRONMENTAL CONDITIONS**

NOR ESTE is located in Albuquerque's east mesa area on soils comprised of alluvium from the west base of the Sandia Mountains. Slopes are approximately 3% from a high elevation of 5,485 feet at the east to a low of 5,390 feet along the western edge of the Plan area.

NOR ESTE I is bisected by the La Cueva Arroyo, which has been designated as a Major Open Space Link in the City of Albuquerque's Facility Plan for Arroyos (1985 draft). Also within the Plan area are several smaller, unnamed drainageways which are not of great significance. The North Domingo Baca Arroyo lies just south of NOR ESTE II and was not identified in the Facility Plan for Arroyos.

Soils in the area (Exhibit I) are from the "Tijeras-Embudo" association. These generally are deep, well drained soils formed from decomposed granite rocks on old alluvial fans. Typical profiles in the Embudo series consist of brown gravelly fine sandy loam to a depth of 4 inches, underlain by 16 inches of brown to brownish gray gravelly sandy loam, which is followed approximately 15 inches of brown sandy clay loam with accumulations of lime in the bottom portion. Soils in this association have moderate alkalinity, moderate permeability, and are suitable for construction and community development.

The plant community within the Plan area is typical of most of the east mesa area and consists mainly of grasses mixed with annuals and some shrubs, covering about 15% of the ground surface. Black Grama is the dominant grass for this soil association, with Blue Grama, San Dropseed, Three-awn, Galleta, Sideoats Grama, and Indian Ricegrass also apparent. Other plants representative of this area include Broom Snakeweed, Russian Thistle, Small Soapweed (Yucca), and Cholla Cactus. Apache Plume is the dominant shrub, and is found mainly in the drainageways.

This plant community exists in a rather fragile balance, and if disturbed, requires substantial time to become reestablished. Unless other means of stabilization are undertaken, such as landscaping of developed areas, erosion from both wind and water can become a problem in disturbed areas.

An archaeological resource survey was conducted for NOR ESTE in September 1986 by Mariah Associates, Inc. of Albuquerque (Appendix A). Aside from "abundant modern trash and hunting debris", three localities of findings were recorded within the NOR ESTE I area, and two in NOR ESTE II. One site is believed to be the deteriorating remnants of a temporary military storage facility, while two of the others were isolated occurrences which appear to be prehistoric stone tools. However, none of the occurrences were considered to be culturally significant. The probable military camp is less than 50 years old, and the two prehistoric artifacts occur as isolates without contextual integrity.

This summary of this Class III cultural resource survey states that "the project area has been utilized by prehistoric groups, but the nature of activities has left little detectable remains. The topography and soils within the project area have been formed primarily from wash erosion and deflation which involves a process not conducive for burying cultural remains. Thus, the presence of undetected, buried deposits in the project area is unlikely. No additional cultural resource evaluations are recommended before these two parcels are developed."

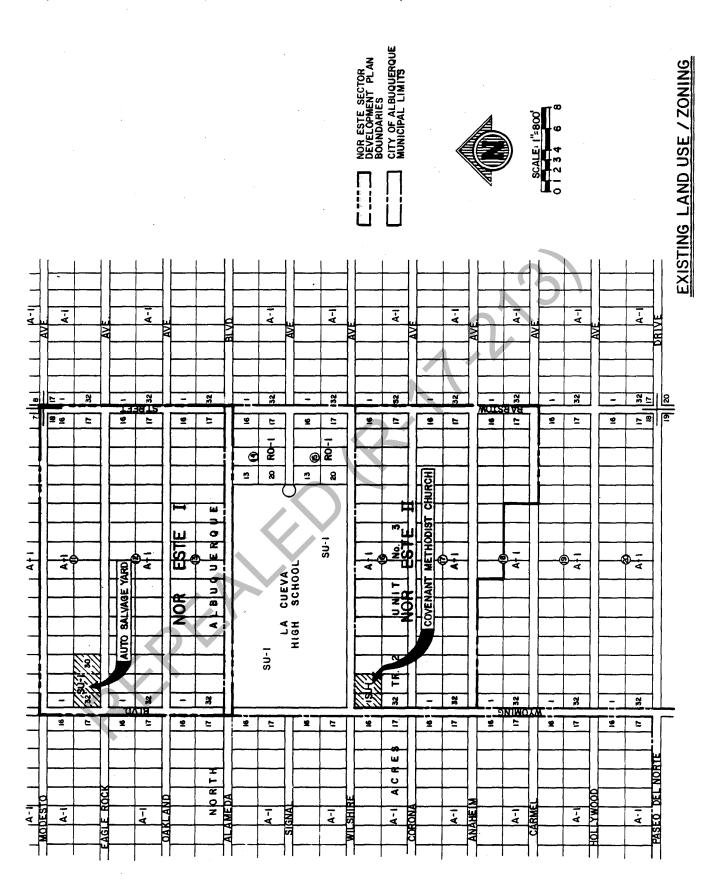


SECTION IV LAND USE

#### **EXISTING LAND USE/ZONING**

Presently, the area encompassed by the NOR ESTE SECTOR DEVELOP-MENT PLAN is largely vacant and zoned County A-1 (Figure 3). A Special Use Permit for an auto salvage yard is in effect for Lots 30-31, Block 11, Tract 2, Unit 3, North Albuquerque Acres. In preparation for the development of NOR ESTE, the salvage yard is being removed. The Covenant Methodist Church is located on Lots 1 and 2, Block 16, Tract 2, Unit 3, North Albuquerque Acres. Both the salvage yard and church sites are zoned County A-1.

The surrounding area is characterized by large lot residential development. A notable exception outside the NOR ESTE boundaries is the recently constructed La Cueva High School, which was recently annexed to the Municipal Limits of Albuquerque and zoned for Special Use. Other developments surrounding NOR ESTE include scattered single-family dwellings, churches and several small commercial enterprises, all of which are zoned County A-1 and developed either through existing County A-1 zoning, Special Use Permit or Conditional Use.



20

#### PROPOSED LAND USE AND ZONING

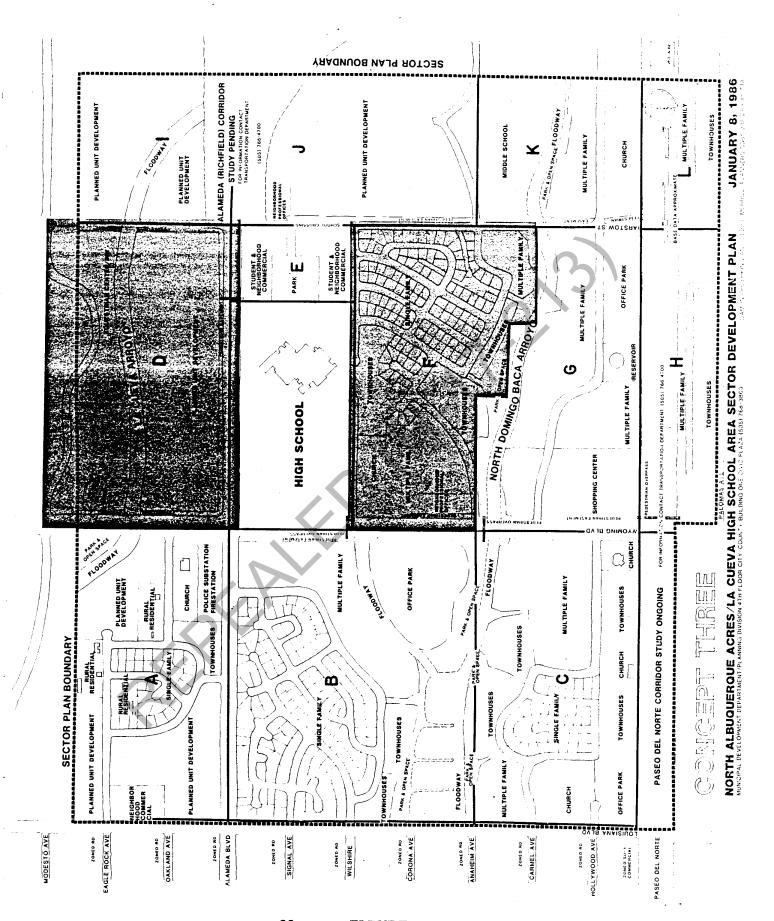
Through active participation by area residents and landowners, Concept Three (Figure 4) was selected as the proposed alternative. As part of the development program, the Guide established "Window" areas which represent a reduction in size of the "Subareas", identified in the Subareas Master Plan for North Albuquerque Acres, while still requiring the development and approval of Sector Development Plans. The Guide also proposed land uses for each "Window". NOR ESTE includes the areas identified as "Windows D (amended) and F'. More specifically, "Window D" has been enlarged for sector planning purposes to include the north half of Block 11, to Modesto, while "Window F" is presented as proposed in the Guide.

NOR ESTE contains three categories of development: Residential (including low density 3 to 6 du/ac, 3 to 9 du/ac and low-to-medium density, 3 to 28 du/ac, all proposed to be zoned R-D); Office/Institutional (to include the Wyoming frontage between Anaheim and Corona proposed to be zoned R-D) and Church and Related Uses (to include the existing Covenant Methodist Church and land holdings proposed to be zoned R-D). The proposed land uses are in substantial compliance with "Concept Three" of the Guide (Exhibit III). A notable exception is the proposed land use for the north half of NOR ESTE I. The Guide identifies an Equestrian Center/Inn, while NOR ESTE I is proposing single-family detached housing. The proposed single-family development in lieu of an equestrian center/inn is more compatible with the development and urbanization of this portion of North Albuquerque Acres. An equestrian center/inn is better suited for a more rural atmosphere. Additionally, it is critical that a base population be established in order to support the non-residential uses identified in the Guide.

#### \*RESIDENTIAL (R-D Residential and Related Uses Zone - 138 Acres)

Three to Six Dwelling Units/Acre. These areas comprise approximately 46% of the total residential land uses. These areas include the north half of

<sup>\*</sup>Reference: DEVELOPMENT STANDARDS subheading.



NOR ESTE I and generally the eastern third of NOR ESTE II. These areas represent the core development of NOR ESTE I and II and are intended to provide the initial base population group in which to support non-residential uses in this area of North Albuquerque Acres. Development of these sites shall be controlled through the Subdivision process and shall not require Site Development Plan approval.

Three to Nine Dwelling Units/Acre. These areas comprise approximately 45% of the total residential land uses. These areas include the south half of NOR ESTE I and generally the western two-thirds of NOR ESTE II. These uses generally represent transition zones between non-residential uses and the 3 to 6 du/ac single-family residential. Development of these sites shall be through the Subdivision process and shall not require Site Development Plan approval.

Three to Twenty-Eight Dwelling Units/Acre. These areas comprise approximately 9% of the total residential land uses. These areas are all located within NOR ESTE II, at generally the same locations identified in the "Land Use Guide—Concept Three". Development of these sites shall be through the permitting process and shall not require Site Development Plan approval if developed at less than 12 dwelling units to the acre.

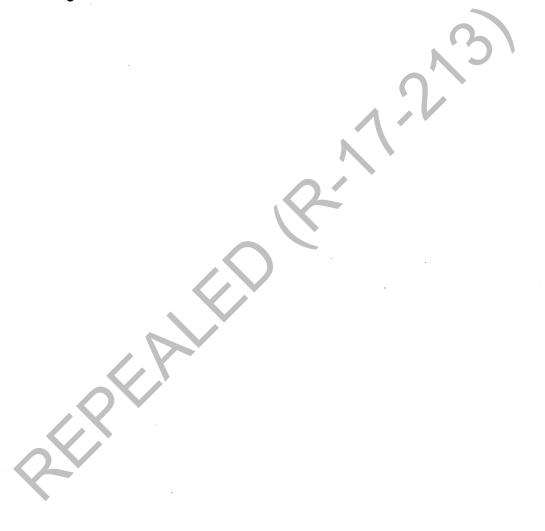
#### OFFICE/INSTITUTIONAL (R-D Office and Institution Zone - 4.4 Acres)

These areas comprise approximately 3% of the total Sector Development Plan. These areas include the frontage along Wyoming Boulevard from south of the Church to Anaheim Avenue NE. These areas are generally located as identified in the "Land Use Guide—Concept Three".

"R-D for Office and Institutional allows permissive and conditional uses as specified in the -01 zone of the Zoning Code. Site Development Plan approval by the Planning Director is required."

#### CHURCH AND RELATED USES (R-D Zone - 4.0 Acres)

This area comprises approximately 2% of the total Sector Development Plan, and includes the existing Covenant Methodist Church and land holdings, located at the southeast corner of Wyoming Boulevard and Wilshire Avenue NE. Further expansion or new development on this site requires site development plan approval by the Planning Director.



#### DEVELOPMENT STANDARDS

- I. A) Development of densities greater than 12 du/net ac. for Use Areas #12, #13 and all non-residential uses shall require approval, by the Planning Director, of a Site Development and Landscaping Plan, as noted in Section 18.A. of the Comprehensive City Zoning Code.
  - B) Development/Design Standards for densities greater than 12 du/net ac.:

#### **Density**

1) A floor area ratio (FAR) of 0.5 is the maximum permitted.

#### Setback

- 1) There shall be a front-yard setback of not less than 10 feet except setback for a garage or carport shall be not less than 20 feet.
- 2) There shall be a side-yard setback of not less than five feet, except:
  - a) There shall be 10 feet on the street side of corner lots, and

#### Height

1) There shall be a rear-yard setback of not less than 15 feet. Structure height up to 26 feet is permitted at any legal location. The height and width of the structure over 26 feet shall fall within 45-degree-angle planes drawn from the horizontal at the mean grade along each internal boundary of the premises and each adjacent public right-of-way centerline, or drainageway right-of-way centerline. To protect solar access, a structure over 26 feet may not exceed the northern boundary of these 45-degree planes, but may be sited in any other direction within planes drawn at a 60-degree-angle from the same boundaries or centerline.

Exceptions to the above are provided in Section 40.C and E of the Comprehensive City Zoning Code.

#### Off-Street Parking:

- 1) Off-street parking spaces shall be as provided in Section 40.A. of the Comprehensive City Zoning Code.
- II. A) "Regulations of Section 10.E. of the Comprehensive City Zoning Code (R-1 Zone) shall apply to single family houses; however, as an option, side-yard setbacks for lots 50 feet or greater in width may be as little as five feet on each side."

#### PARKS AND OPEN SPACE

It is the intent of the *Park Dedication and Development Ordinance* to provide developed park space within one-half mile of every home in Albuquerque for the purposes of recreation and visual relief. Similarly, the goal of the *Facility Plan for Arroyos* is to create a multi-purpose network of recreational trails and open space along arroyos in the metropolitan area.

NOR ESTE proposes to meet both of these goals through development of a park and open space link along the La Cueva Arroyo. Located within NOR ESTE I, the La Cueva Arroyo is designated as a Major Open Space Link in the Facility Plan, intended ultimately to link the Sandia Foothills with the Rio Grande bosque via bicycle, pedestrian, and equestrian trails (Figure 5). According to the Facility Plan, "acquisition and maintenance of the public right-of-way and/or easements associated with Major Open Space Links over and above that required for drainage purposes will be the responsibility of the City. Dedication of arroyo rights-of-way as open space or parks or the granting of recreational easements, where appropriate, are the preferred methods of acquisition."

Rather than dedicating vacant land and paying a development fee to the City, this plan proposes that a developed park be dedicated to the City. The proposed park (see Exhibit III) encompasses roughly 11 acres and serves three purposes:

- 1. carry developed storm runoff in the La Cueva channel;
- 2. provide open space linkage trails;
- 3. provide park space for area residents.

Of those 11 acres, 3.0 are occupied by the concrete channel itself, leaving approximately 8.0 acres of actual park space.



In addition to the access at either end of the park area afforded by the trail system, access to interior areas of the park is provided from the adjacent neighborhoods utilizing joint drainage/access easements. These easements would take the form of 15-foot wide swales (maximum one foot deep). This joint use would be both functional and attractive.

The Park Dedication and Development Ordinance sets dedication requirements of 170 square feet per detached housing unit and 85 square feet per multi-family housing unit. Using the greater requirement of 170 square feet per housing unit, the proposed NOR ESTE park area of 8.0 acres (348,480 square feet) would meet dedication requirements for 2,049 housing units, which greatly exceeds the proposed NOR ESTE densities. The proposed NOR ESTE park satisfies both the Park Dedication and Development fee requirement for the NOR ETE SECTOR DEVELOPMENT PLAN area.

The excess park land value of the development fee shall be owned by the Park Developer. Residential developments, other than those of the Park Developer's, located within the boundaries of the NOR ESTE SECTOR DEVELOPMENT PLAN, shall be required to purchase or otherwise obtain their Park Dedication and Development Fee requirements from the Park Developer. The City of Albuquerque shall encourage residential builders in the area bounded by Elena Boulevard, Paseo del Norte, Ventura Boulevard and Wyoming Boulevard to purchase or otherwise obtain their Park Dedication and Development Fee requirements from the Park Developer. The value of such credits shall be whatever is agreed upon by the Park Developer and the entity generating a Park Dedication and Development Fee requirement. Upon agreement between the Park De- veloper and the entity purchasing or otherwise obtaining the excess credits, the Park Developer shall provide an accounting of the remaining credits and notification to the Parks and Recreation Department that such credits have been purchased or otherwise obtained.

In accordance with the "preferred method of acquisition" stated in the Facility Plan for Arroyos as mentioned previously in this section, NOR ESTE proposes to dedicate the entire park area to the City upon completion and acceptance of the work. The City will at that time accept maintenance responsibility for the park and secure arrangements with the Albuquerque Metropolitan Arroyo Flood Control Authority (AMAFCA) for joint use easements.

#### DENSITY MANAGEMENT PLAN

To create a flexible, yet administratively efficient process to monitor open space, use area densities and conformance to the Comprehensive Plan (3-6 du/ac—Developing Urban Area), the following assumptions and calculations were used:

1. What is the total number of dwelling units that can be accommodated on 176 acres using 2,400 square feet of required developing urban open space per unit?

| Probable House Size              | 1,500 sq. ft. |
|----------------------------------|---------------|
| Probable Garage Size             | 500 sq. ft.   |
| Probable Driveway Area           | 450 sq. ft.   |
| Mandatory Open Space             | 2.400 sq. ft. |
|                                  | 4,850 sq. ft. |
| Total Acreage                    | 176 acres     |
| Less:                            |               |
| Net Office/Institutional/Church  | 8.4 acres     |
| Park                             | 8.0 acres     |
| Street R/W @ 15% Loss - Internal | 23.0 acres    |
| La Cueva Channel                 | 3.0 acres     |
| Adjacent Streets and Other R/W   | 20.4 acres    |
| Dedications                      | *             |
|                                  | 113 acres     |

113 acres (4,922,280 square feet) + 4,850 square feet = 1,015 du's for Use Areas 1, 3, 4, 5, 6, 7, 9, 11, 12, and 13.

2. What is the upper limit of all residential units according to the Comprehensive Plan?

 $176 \ \text{acres} \ \text{x} \ 6 \ \text{du/ac} = 1,056$ 

3. What is the lower limit of all residential units according to the Comprehensive Plan?

 $176 \ \text{acres} \ \text{x} \ 3 \ \text{du/ac} = 528$ 

Please note that the allowable "range" of intensities has been projected. Also, the chart projects a "proposed" number of dwelling units per use area.

This "proposed" column is provided for the Planning Department's internal use and is not meant to be a limit on use area intensity. These figures will be used to evaluate density exchanges and requirements for other owner's concurrence (for balance of total effect).

FIGURE 6
DWELLING UNITS

| Use Area No. | <u>Use</u>                | Minimum<br>Projected | Maximum<br>Projected | Proposed |
|--------------|---------------------------|----------------------|----------------------|----------|
| 1            | Residential               | 124                  | 248                  | 165      |
| 2            | Park/Flood Control        | N/A                  | N/A                  | N/A      |
| 3            | Residential               | 96                   | 281                  | 215      |
| 4            | Residential               | 6                    | 18                   | 12       |
| 5            | Residential               | 68                   | 137                  | 91.      |
| 6            | Residential               | 52                   | 154                  | 120      |
| 7            | Church                    | N/A                  | N/A                  | N/A      |
| 8            | Residential               | 9                    | 27                   | 18       |
| 9            | Office/Institutional      | N/A                  | N/A                  | N/A      |
| 10           | Office/Institutional      | N/A                  | N/A                  | N/A      |
| 11           | Residential               | 19                   | 57                   | 44       |
| 12           | Residential (M-F Allowed) | 31                   | 267                  | 167      |
| 13           | Residential (M-F Allowed) | 5                    | 42                   | 26       |
|              | Totals                    | 410                  | 1,231                | *858     |

<sup>\*</sup> Total Allowable: Increase above 858 du requires Sector Development Plan amendment and EPC review.

Increase in any use area can be accomplished in accordance with the following requirements:

- 1. To increase total allowable dwelling units requires:
  - a. Additional open space in the amount of 2,400 square feet per additional dwelling unit in excess of 858 to be reserved outside the 176-acre Sector Plan area, but in a location acceptable to the City Planner, or

- b. Submission of evidence that more than 2,400 square feet of open space per dwelling unit shall be reserved within the Sector Plan boundary, and
- 2. The Sector Plan shall establish the minimum number of dwelling units for each use area within its boundaries. The minimum number of dwelling units shall be fixed and associated with each use area unless changed through a Sector Plan amendment approved by the EPC. In no case should the minimum be less than three dwelling units per gross acre (410).
- 3. The Sector Plan shall establish the maximum number of dwelling units for each use area within its boundaries. Development of up to the maximum number of dwelling units established for any use area shall be allowed so long as an adequate number of undeveloped dwelling units is maintained to assure a proper amount—at least the minimum required dwelling units on all undeveloped or partially developed use areas without the need to increase total authorized dwelling units for the Sector Plan. The maximum number of dwelling units shall be fixed and associated with the use area unless changed through a Sector Plan amendment approved by the EPC.
- 4. The City shall monitor density of development and the private sector shall make appropriate disclosure as follows:
  - a. Each use area of the Sector Plan shall show "total allowable units" in an amount less than or equal to the planned maximum for the use area, and greater than or equal to the planned minimum for the use area.

- b. All platting for the area shall carry the following language prominently on the plat as notice to the private sector that density is subject to Sector Plan management.
  - "NOTICE: THE TOTAL NUMBER OF DWELLING UNITS WHICH MAY BE PERMITTED IS REGULATED THROUGH SPECIAL SECTOR PLAN REQUIREMENTS. TO DETERMINE THE NUMBER OF DWELLING UNITS ASSIGNED TO ANY PARCEL, CONTACT THE CITY PLANNING DEPARTMENT."
- c. The "proposed" dwelling units for all lots within the Sector Plan area shall equal the total dwelling units established as a limit for the Sector Plan. To exceed the number of dwelling units proposed on any lot shall require simultaneous off-setting reduction in the number of dwelling units proposed for other parcels within the Sector Plan area. All such changes shall be permissive so long as the total dwelling units proposed for all parcels:
  - (1) Remains within the approved maximum and minimum ranges for the affected areas, and
  - (2) The number of dwelling units proposed in another part of the Sector Plan area is changed in a compensating way as evidenced by a copy of a recorded written agreement among principal owners of bulk land upon which the number of proposed dwelling units has been changed.



## SECTION V TRANSPORTATION

#### TRANSPORTATION

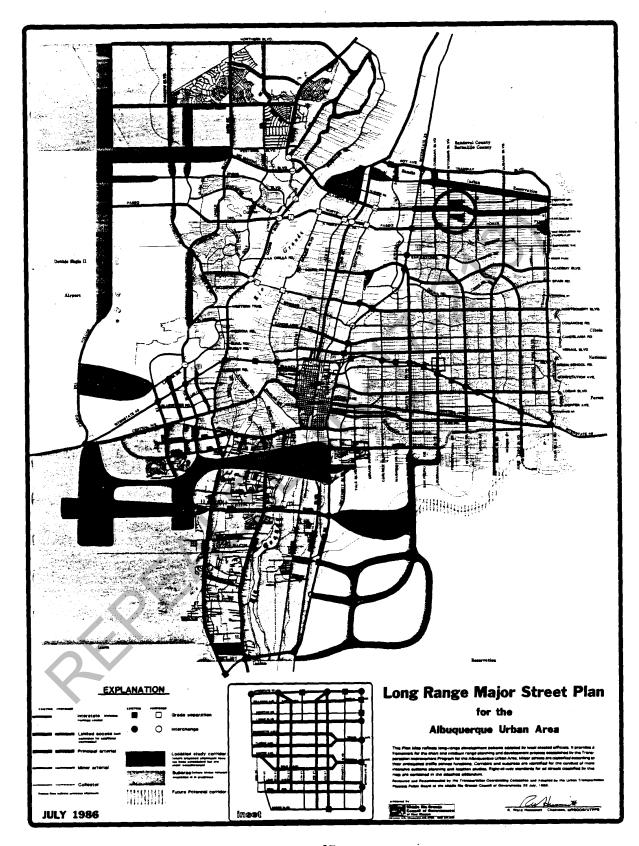
The NOR ESTE SECTOR DEVELOPMENT PLAN is governed by and located within the context of the *Long Range Major Street Plan (LRMSP)* prepared by the Middle Rio Grande Council of Governments (MRGCOG) for its governing body, which includes the City of Albuquerque and Bernalillo County (Figure 7).

NOR ESTE is principally accessed from the north and south by Wyoming and Barstow, and from the east and west by Alameda, all three of which are identified on the LRMSP. Alameda, abutting NOR ESTE I on the south, is classified by the LRMSP as a Principal Arterial (124-foot R/W), with an alignment established from Barstow west to the I-25 interchange. East of Barstow, Alameda is intended to veer south and connect with Tramway. The Alameda Corridor (alignment) east of Barstow is under study by the City of Albuquerque; however, the results of that study are not expected to affect NOR ESTE. Presently, Alameda has permanent half-width paving along the La Cueva High School frontage.

Wyoming abuts NOR ESTE on the west and is also classified by the LRMSP as a Principal Arterial (156-foot R/W). Wyoming represents a major north-south connection through the east half of Albuquerque and extends from Kirtland Air Force Base north to Elena Drive. The LRMSP indicates a desired connection to Tramway Road through the Sandia Pueblo. NOR ESTE makes no representation as to the extension of Wyoming across lands of Sandia Pueblo. Presently, Wyoming has temporary half-width asphalt paving from Paseo del Norte north to Alameda.

Barstow, abutting NOR ESTE on the east, is classified by the LRMSP as a Collector Street (80-foot R/W including bikeway). Barstow presently connects with Harper Road at the south, and is intended to connect with Elena Drive on the north.

Modesto abuts NOR ESTE I on the north and is not identified on the LRMSP. However, Modesto is platted as a 60-foot R/W (major local), and is presently unimproved. Wilshire, Anaheim and Carmel Avenues abut NOR ESTE II on the north



and south, respectively. These streets are also platted as 60-foot R/W. Presently, Anaheim and Carmel are unimproved, while Wilshire has permanent half-width paving for that portion along the La Cueva High School frontage. Three other roadways, Eagle Rock, Oakland, and Corona, presently bisect NOR ESTE I and II. These roadways are intended to be vacated at the time of subdivision, which will aid in breaking up the grid-type platting pattern of North Albuquerque Acres.

All roadways surrounding NOR ESTE are presently platted 60 feet (excepting those portions of Wyoming and Alameda along the La Cueva High School frontage) and require additional dedications, as noted below:

FIGURE 8
EXISTING AND PROPOSED
RIGHTS-OF-WAY

| Roadway                     | Classification               | Existing<br>R/W | Proposed R/W  | Additional<br><u>R/W*</u> |
|-----------------------------|------------------------------|-----------------|---------------|---------------------------|
| NOR ESTE I<br>Alameda Blvd. | Principal Arterial           | 60'             | 124'          | 32'                       |
| Wyoming Blvd.               | Principal Arterial Collector | 60'<br>60'      | 156'<br>80'   | 48'<br>10'                |
| Barstow St.<br>Modesto Ave. | (Major) Local                | 60'             | 60'           | -0-                       |
| Eagle Rock                  | (Major) Local                | 60'             | To be vacated | N/A                       |
| Oakland Ave.                | (Major) Local                | 60'             | To be vacated | N/A                       |
| NOR ESTE II                 |                              |                 |               |                           |
| Wyoming Blvd.               | Principal Arterial           | 60'             | 156'          | 48'                       |
| Barstow St.                 | Collector                    | 60'             | 80'           | 10'                       |
| Wilshire Ave.               | (Major) Local                | 60'             | 60'           | -0-                       |
| Anaheim Ave.                | (Major) Local                | 60'             | 60°           | -0-                       |
| Carmel Ave.                 | (Major) Local                | 60'             | 60'           | -0-                       |
| Corona Ave.                 | (Major) Local                | 60'             | To be vacated | N/A                       |

<sup>\*</sup> Additional R/W represents half-width of required dedication abutting NOR ESTE I and II.

#### **Bikeways**

The Bikeways Master Plan (Figure 9) identifies bicycle trails along Alameda and Barstow. NOR ESTE proposes to relocate the bikeway planned along Alameda Boulevard between Barstow and Wyoming, placing it within the open space/park system of La Cueva Arroyo, in accordance with the intent of the Facility Plan for Arroyos.

#### Arroyos Crossings

Five all-weather arroyo crossings are ultimately required in the immediate vicinity of NOR ESTE: one at Barstow and one at Wyoming for both the La Cueva and North Domingo Baca Arroyos; and one internal crossing within NOR ESTE I. The developer shall provide the NOR ESTE I internal crossing as part of the development of NOR ESTE I. Responsibility for providing crossing structures at Wyoming and Barstow lies with the City of Albuquerque. Presently, there are no funds available for construction of these structures; therefore, NOR ESTE shall provide an interim facility at Wyoming on the North Domingo Baca Arroyo to pass the 100-year undeveloped design storm in accordance with criteria established by the City Engineer. Crossing facilities for the La Cueva shall consist of a temporary paved dip section at Wyoming, with the Barstow crossing zone to be barricaded. Criteria for crossing the North Domingo Baca at Wyoming were established by the City Hydrologist such that the depth times velocity product shall not exceed 6.5 for the 100-year/6-hour undeveloped design storm. This shall be accomplished by placing a series of culverts under Wyoming. The culverts will drain that portion of the flow required to reduce the DxV product below 6.5. Conceptual criteria for all three interim crossings have been reviewed by the City Engineer. The ultimate crossing structures on Wyoming and Barstow will be provided by the City when funds are available, in accordance with adopted policies.

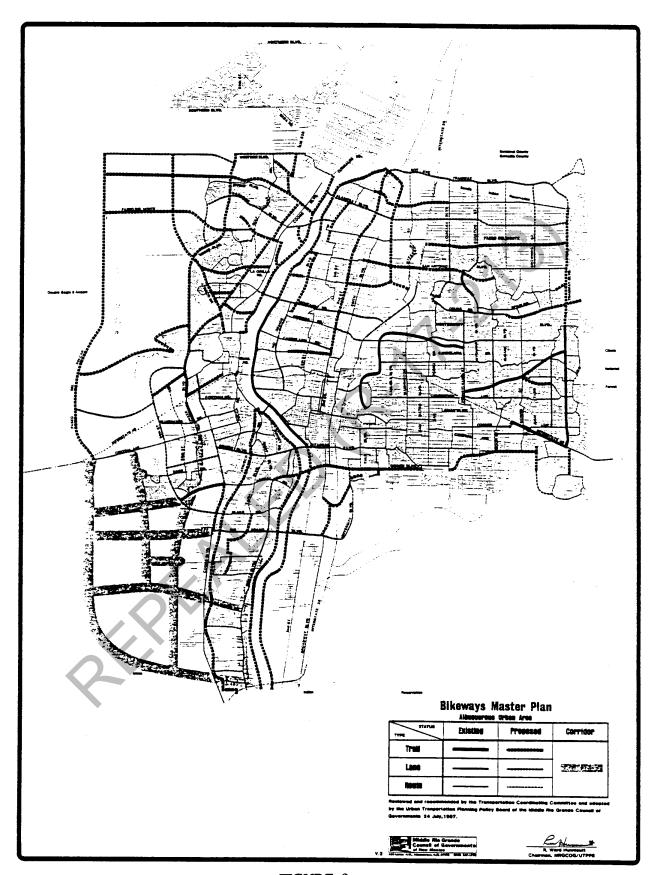


FIGURE 9

#### FIGURE 10

#### **CROSSING STRUCTURES**

| Roadway  | Arroyo   | Entity of Responsibility  |
|--|--|---|
| Wyoming Blvd.* Wyoming Blvd.* Barstow Street Barstow Street NOR ESTE I | La Cueva<br>North Domingo Baca<br>La Cueva<br>North Domingo Baca<br>La Cueva | City of Albuquerque<br>City of Albuquerque<br>City of Albuquerque<br>City of Albuquerque<br>Developer |

<sup>\*</sup>Developer providing interim crossing. City of Albuquerque to accept maintenance of interim crossing.

#### Trip Generation

Trip generation information for NOR ESTE was determined utilizing "Trip Generation", a computer software program by MICRO-TRANS. This program calculates trips on the basis of Institute of Transportation Engineers "Trip Generation, An Informational Report", Third Edition, 1983. Daily trips are measured in vehicles per day and indicate the number of trips generated during a typical weekday. Peak-hour volumes represent the highest volume of traffic generated during a one-hour period between 7:00 a.m. and 9:00 a.m. for the morning peak, and between 4:00 p.m. and 6:00 p.m. for the evening peak. Trip generation is also available for an average weekday, Saturday and Sunday.

Based upon analysis utilizing "Trip Generation", the proposed development would generate approximately 12,456 new trips. NOR ESTE I and II would generate approximately 4,670 and 7,786 new trips, respectively. The estimated two-way peak-hour volumes will be 1,114 vehicles per hour in the morning and 1,421 vehicles per hour in the evening. NOR ESTE I estimated two-way peak-hour volumes will be 355 vehicles in the morning and 467 vehicles in the evening. NOR ESTE II estimated two-way peak-hour volumes will be 759 vehicles in the morning and 954 vehicles in the

evening. A summary of traffic generated by the proposed development, along with detailed traffic generation data, is provided in Appendix B. The new trips generated by NOR ESTE are based upon a total of 467 single-family units in NOR ESTE I. New trips for NOR ESTE II are based upon a total of 296 single-family units, 404 apartment units and 145,000 square feet of gross leasable area (FAR 0.5). These dwelling unit counts are slightly higher than those identified in the "proposed" column of the Density Management Plan.

Because of the sparse development presently existing in North Albuquerque Acres and the low percentage of non-residential uses proposed, no reductions in trips were included because of internal trips.

#### Trip Distribution

The direction by which vehicles approach or leave the proposed development has been estimated utilizing knowledge of the local roadway network (proposed by the Long Range Major Street Plan), journey-to-work analysis of the surrounding area based on population, distance from the site, ease of access via the future roadway network, and through the assistance of the Public Works Department/Traffic Engineer, Mr. Robert Fosnaugh.

Based on the location and type of proposed development, the proximity to other development and projected population in the vicinity of the site, the following distributions are assumed for the site-generated trips:

Northeast - 3%

Southeast - 12%

Northwest — 35%

Southwest - 50%

In summary, the directional distribution assumes that approximately 50% of the new vehicle trips will ultimately approach the site via Wyoming/ Paseo del Norte

from the southwest, 35% from the northwest via Wyoming/Alameda/Modesto, 12% from the southeast via Barstow/Paseo del Norte, while the remaining 3% approach the site from Barstow/Alameda/Modesto.

A formal Traffic Analysis was not considered necessary since NOR ESTE represents the first major development in this area, aside from La Cueva High School. However, a distribution of trips generated from NOR ESTE I and II was made in order to establish future traffic improvements. Distributions of generated trips for NOR ESTE I and II are provided in Appendix B.

#### Conclusion

No overloading of the network is anticipated by the development of NOR ESTE. This is supported by the network analysis for the La Cueva High School Land Use Guide. The analysis performed was for all three land-use scenarios proposed by the Guide. The traffic impacts upon the network (LRMSP) increased with the increasing levels of intensities proposed by each scenario. Concept (scenario) Three was recommended for adoption and contained the most intensive development. In summary, the network analysis stated, in part, "All streets were individually examined for capacity deficiency and it turns out that all streets within the North Albuquerque Acres study area seem to have sufficient street capacity to handle the year 2010 traffic volumes. In addition, all major intersections were also examined for capacity deficiency and were found to have sufficient capacity. In conclusion, it can be said that the test network (LRMSP) has sufficient capacity to accommodate the increase in the projected traffic volumes. Intersections of San Pedro, Louisiana and Wyoming with Paseo del Norte may, however, be potentially capacity-deficient and should be analyzed in more detail."

In summary, the proposed development will not create any significant negative impacts on area streets. As the area develops, the traffic generation and network assignment information provided with NOR ESTE may be used to analyze the street network and particularly those intersections noted in the *Guide*.



# DRAINAGE AND FLOOD CONTROL

#### DRAINAGE AND FLOOD CONTROL

#### Purpose and Scope

The purpose of this Drainage Master Plan is to establish the criteria for controlling surface runoff from NOR ESTE I and II and contributing upstream areas in a manner which is acceptable to the City of Albuquerque and AMAFCA. The Plan studies the existing and developed conditions of the NOR ESTE area and analyzes conditions at both the 100-year and 10-year/6-hour duration storm events. The Plan outlines drainage management criteria for the ultimate development of NOR ESTE.

The scope of this Plan is to ensure that NOR ESTE will be protected from storm runoff and that the development of this project will not increase the flooding potential of adjacent and downstream properties.

Approval of this Drainage Master Plan shall facilitate Sector Development Plan approval. Future platting and development will require detailed drainage reports that outline specific on-site controls and construction detail.

#### **Existing Drainage Conditions**

An existing auto salvage yard is located near the northwest corner of NOR ESTE I. The salvage yard has been purchased by the developer and the previous owner is in the process of moving off the property. An existing church is located at the northwest corner of NOR ESTE II. The remainder of the plan area is undeveloped and covered with native vegetation. All existing roadways consist of graded earth or gravel roads, except Alameda, Wyoming and Wilshire, which have half-width paving along the La Cueva High School frontage.

The predominant drainage feature on NOR ESTE I is the La Cueva Arroyo, which is located at the approximate north/south midpoint of the window, in addition to several localized tributaries of the La Cueva. Recent temporary improvements to the La Cueva Arroyo have been made by AMAFCA. A trainer dike composed of riprap was constructed near the midpoint of the site to prevent pirating of flows from the La Cueva main channel south into a minor tributary. A soil cement dike was also constructed just west of Wyoming to divert the La Cueva main channel flows north and around a cluster of existing homes located west of Wyoming between Modesto and Oakland. This diversion conveys the main channel flows into the North La Cueva Alignment which outfalls at the existing triple 10-foot by 10-foot concrete box culvert located at I-25.

The predominant drainage feature in NOR ESTE II is the North Domingo Baca Arroyo, which is located along the southern boundary of the plan area. The main channel of the arroyo is actually located south of the plan area site; however, the 100-year floodplain encroaches into the southern portion of the site. The only offsite flows that impact the site are from the east. Presently, flows sheet across Barstow from the east and meander into the North Domingo Baca Arroyo. Offsite flows from the north are intercepted by the La Cueva High School improvements and released at a controlled rate into Wilshire, which is partially improved. No offsite flows enter the plan area from the west.

The La Cueva and North Domingo Baca Arroyo drainage basins originate in the Sandia Mountains. These arroyos and their tributaries meander across North Albuquerque Acres in their natural state. A triple 10-foot by 10-foot box culvert located at I-25 has excess capacity to drain anticipated developed flows from the La Cueva Arroyo under I-25. A concrete channel was constructed in conjunction with the Sperry plant which conveys flows to just west of Jefferson Street. From there, flows are conveyed by an earthen channel to the North Diversion Channel.

A detention dam was constructed on the North Domingo Baca Arroyo directly east of Hamilton Street, with a 36-inch outlet pipe which discharges approximately

160 cubic feet per second (cfs). From the dam outfall, the North Domingo Baca meanders across North Albuquerque Acres. Four 9-foot by 4-foot box culverts and eight 48-inch RCP culverts drain flows under I-25. These structures drain into improved channels west of I-25 which outfall at the North Diversion Channel.

Exhibits IV and V are provided to graphically depict the existing drainage basins affecting NOR ESTE and to locate existing and proposed drainage structures.

#### Summary of Existing Studies

The first major study of the La Cueva and North Domingo Baca Arroyos was the North East Heights Drainage Management Plan (NEHDMP) prepared by Leonard Rice Consulting Water Engineers for AMAFCA. This plan established flow rates and recommended conceptual plans for drainage improvements. The Review and Refinement of the NEHDMP was prepared in 1980 by Espey, Huston & Associates, Inc. to reaffirm and update the NEHDMP. The purpose of this study was to determine changes in hydrology resulting from revisions to development assumptions and design criteria.

Albuquerque Flood Insurance Study, prepared by Bohannan-Huston, Inc. and published by the Federal Emergency Management Agency, also studied the La Cueva and North Domingo Baca Arroyos. Floodplains were established utilizing hydrology presented in the NEHDMP.

Other reports prepared which include the sector plan area are: Alternate Street Plan for Special Assessment District No. 209, by Molzen-Corbin & Associates; Drainage Management Analysis—La Cueva and El Camino Arroyos—Vicinity of I-25, by Bohannan-Huston, Inc.; Drainage Management Study of La Cueva and El Camino Arroyos, by Bohannan-Huston, Inc.; Conceptual Drainage Management Plan for the Coronado Airport Property, prepared by Bohannan-Huston, Inc.; and the North Albuquerque Acres Sector Development Plan Drainage Analysis, prepared by

Bohannan-Huston, Inc. for the La Cueva High School Land Use Guide, June 1986. These studies outline the management of the La Cueva Arroyo in the vicinity of I-25 and adjacent areas.

#### **Proposed Drainage Conditions**

The proposed Drainage Management Plan (see Exhibit VI) identifies the major infrastructure improvements required to manage developed storm runoff from NOR ESTE and contributing upstream drainage areas. The Plan shows: (1) drainage basins; (2) developed peak flow rates at critical analysis points; (3) existing topography at 2-foot intervals; and (4) required street and drainage infrastructure improvements.

NOR ESTE consists of a residential and office/institutional land use. The infrastructure required by this development consists of the adjacent perimeter streets (Alameda, Wyoming, Barstow, Modesto, Wilshire, Anaheim and Carmel), future interior residential streets, extension of public water and sanitary sewer improvements, construction of the La Cueva Arroyo channel from Barstow to Wyoming and construction of an interim crossing facility on Wyoming at the North Domingo Baca Arroyo. As shown by the Drainage Management Plan, NOR ESTE I is programmed to utilize the La Cueva channel as its drainage outfall. All stormwater runoff will be routed overland via residential street networks to various release points into the channel. The La Cueva Arroyo will be improved as a concrete lined channel to confine the 100-year/6-hour design storm with required freeboard.

NOR ESTE II is programmed to utilize the North Domingo Baca Arroyo as its drainage outfall. As outlined in the adopted La Cueva High School Land Use Guide, the North Domingo Baca Arroyo has limited downstream capacity at I-25. Existing facilities at I-25 have a capacity of approximately 2,250 cfs. The Review and Refinement of the NEHDMP established a developed flowrate of 2,760 cfs at I-25. Therefore, development within the North Domingo Baca Arroyo Basin will be required to temporarily detain stormwater until downstream improvements are provided. Detention pond discharge rates are established at approximately 1.7 cfs per acre by the La

Cueva Land Use Guide, and will be utilized in this analysis. Centralized interim detention ponds will be utilized within NOR ESTE II where practical. However, due to multiple ownership of property, this may not be universally possible. Stormwater within NOR ESTE II will be routed overland via interior public streets and swales to interim detention facilities which will release stormwater at a controlled rate into Wyoming and the North Domingo Baca Arroyo. These ponding facilities shall be designed so that the land they encumber may be reclaimed when future downstream improvements are provided. Interim improvements will be made at the North Domingo Baca Arroyo just south of Anaheim at Wyoming in order to mitigate the effects of erosion prior to crossing Wyoming. An all-weather crossing is programmed at Wyoming.

Because NOR ESTE II only utilizes the North Domingo Baca Arroyo at the outfall point identified above, complete channel improvements are not required as part of this project. Developed storm runoff may not be discharged into the North Domingo Baca Arroyo without the provision of erosion control measures and/or interim channel improvements.

As discussed in Section V, five all-weather arroyo crossings are ultimately required: one at Barstow and one at Wyoming for both the La Cueva and North Domingo Baca Arroyos; and one internal crossing of La Cueva within NOR ESTE I. The developer shall provide the NOR ESTE I internal crossing and an interim crossing of the North Domingo Baca at Wyoming as part of that development.

In conjunction with providing paved access to NOR ESTE, street grading requirements must be established. As shown by the plan, it is recommended that flows upstream of NOR ESTE be concentrated at three points along Barstow. Analysis points 2 and 4 are locations of future crossing structures. It is recommended that a drainage facility be provided at analysis point 3 when development upstream occurs, to pass flows across Barstow to the drainage channel provided by La Cueva High School. Downstream of the plan area flows will be discharged at four points. Analysis points 5 and 8 are locations of future crossing structures. At analysis point 6, street flows from

Alameda will be collected by a storm drain system at Wyoming which outfalls at the La Cueva Channel. This storm drain will be provided by NOR ESTE I. Flows at analysis point 7 will also be released for downstream collection; however, it is recommended that a storm sewer system be provided as soon as possible that would convey flows south to the North Domingo Baca as the magnitude of storm runoff warrants immediate action. Analysis of the NOR ESTE area indicates that improvements should be provided at analysis points 3 and 7, as discussed above, in order to provide drainage protection to the study area. However, the obligation to provide funding for these improvements is not yet identified

#### Recommendations

It is recommended that this Drainage Management Plan be approved for Sector Development Plan purposes. Future subdivision platting and development shall require site-specific drainage plans and reports that outline and detail required infrastructure improvements. All future drainage reports shall be in compliance with this Drainage Management Plan.

#### Hydrology

The hydrology presented in this study has sources: (1) Review and Refinement of the NEHDMP and (2) Soil Conservation Service (SCS) methodology for determination of surface runoff, as outlined in the City of Albuquerque Development Process Manual, Volume II.

Discussions with AMAFCA and the City of Albuquerque established that the channel hydrology for the La Cueva and North Domingo Baca Arroyos, as outlined in the *Review and Refinement of the NEHDMP*, should be accepted and utilized. The 100-year discharges computed under "Hydrologic Condition VI of that study will be utilized for all channel hydrology and hydraulic calculations. "Condition VI" of the referenced report is described as:

"Maintained existing channels and fully developed master plan land use without AMAFCA Drainage Resolution 1972-2 and without proposed floodwater detention reservoirs."

The hydrology of smaller basins will be determined using the SCS method as outlined in the *Development Process Manual*, Volume II, Chapter 22.





SECTION VII UTILITIES

#### UTILITIES

The City of Albuquerque owns and operates the water and sanitary sewer lines and facilities shown on Figures 11 and 12. Annexation of development within NOR ESTE is prerequisite to provision of water and sanitary sewer service. A statement of water and sanitary sewer service availability is included in Appendix C. Electrical, gas and telephone services have been provided to La Cueva High School and are available for extension to NOR ESTE.

#### Water

NOR ESTE is situated within water pressure zone 4E(R) of the Alameda Trunk of the City of Albuquerque water system. Service to NOR ESTE is consistent with the Master Plan of Water Supply, 1982 Update. The Walker Reservoir, two wells and transmission water line comprise the existing water facilities for service to 4E(R) and 5E in the Alameda Trunk (Figure 11). Water production, storage, and conveyance capacity to NOR ESTE is available. Service has been provided to La Cueva High School by line extension from these facilities. Exhibit VII shows the existing lines which were constructed to service the high school. By statement of availability, the City has determined that water is available to NOR ESTE by extension from these lines. These specific master plan line extensions required for NOR ESTE I are as shown on Exhibit VII. The sizes and alignments of these lines are shown as indicated in the Water Master Plan, and their construction will provide adequate service and fire protection.

The master plan line extension requirements for NOR ESTE II are completely satisfied, having been constructed for La Cueva High School. All on-site lines will be owned and maintained by the City of Albuquerque.

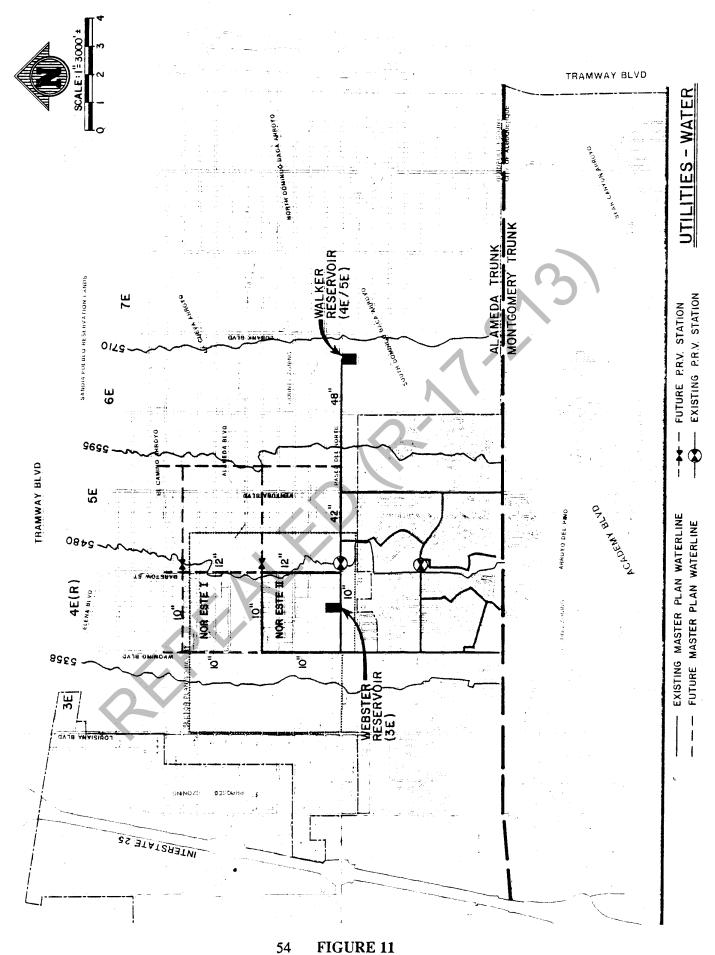


FIGURE 11

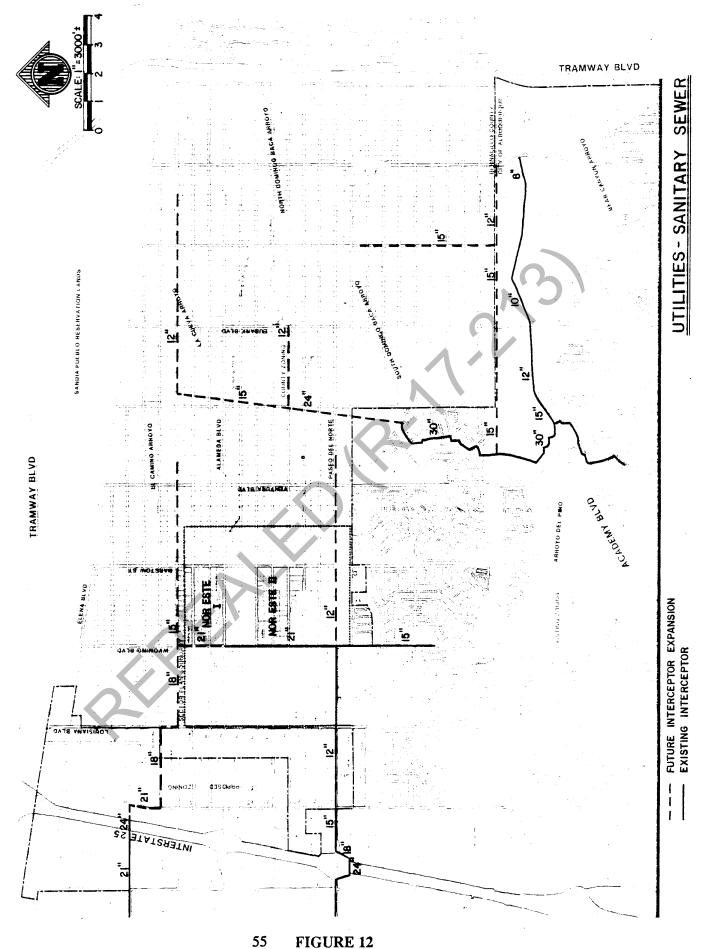


FIGURE 12

#### Sanitary Sewer

In 1978, the City of Albuquerque adopted the Areawide Wastewater Treatment and Facilities Plan. This plan included selected alternatives for wastewater treatment, sludge handling, and an analysis of the interceptor system. The Facilities Plan was adopted by the City and County with an accompanying Environmental Impact Statement. Sanitary sewer service to NOR ESTE is consistent with the Facilities Plan.

Though not formal amendments to the Facilines Plan, the ultimate interceptor system contemplated has been modified by necessity and timing of improvements in North Albuquerque Acres. Ultimately, nearly all the wastewater generated in North Albuquerque Acres will be directed to existing I-25 crossings at either San Diego or Paseo del Norte. As shown in Exhibit VII, sanitary sewer service was provided to La Cueva High School by extension of a 21-inch interceptor in Wyoming. By statement of sanitary sewer availability, the City has determined that service is available to NOR ESTE I by extension of the 21-inch interceptor in Wyoming from Alameda to Modesto. As North Albuquerque Acres develops and the existing interceptor at San Diego and I-25 is extended, a 15-inch interceptor in Modesto or some other nearby corridor will be required for service to NOR ESTE I, and construction by other users is to be deferred until warranted by future development. At that time, a portion of flow to be conveyed by the 21-inch line extension in Wyoming will be redirected to Modesto in order to alleviate an eventual overloading condition in the Paseo del Norte/I-25 crossing. No interceptor line extensions are required for service to NOR ESTE II.

Lines within NOR ESTE will convey flows generated by future off-site development east of Barstow. However, it is expected that these off-site flows will be minimal by extension of the Tijeras Canyon Interceptor as shown on Figure 12. All onsite lines will be owned and maintained by the City of Albuquerque.

#### Electricity

The Public Service Company of New Mexico (PNM) serves the area involved in the Sector Plan. PNM is willing to supply whatever power is required for the

project. Presently, there is an overhead 12,470-volt three-phase power line along Wyoming which serves La Cueva High School. This line can be extended to service NOR ESTE (APPENDIX C).

#### Natural Gas

The provision of natural gas to the site is by the Gas Company of New Mexico. A six-inch high-pressure line is presently located in Wyoming, terminating at Alameda, with a four-inch high-pressure branch line in Wilshire serving La Cueva High School. Natural gas service is available to NOR ESTE (APPENDIX C).

#### Telephone

The Mountain Bell Telephone Company provides the design, telephone conduit, and appurtenances to provide service to NOR ESTE. No master plan is developed by Mountain Bell Telephone Company since establishment of requirements is not possible. La Cueva High School has been provided a single-cable line as a temporary arrangement. The high school will be incorporated into an overall system as development occurs in the area. Service is provided to each location in residential areas, to a specified distribution point for multi-family buildings, and to a point at the ground floor of an office building. Telephone service is available to NOR ESTE (APPENDIX C).



### SECTION VIII PROGRAM DEVELOPMENT

#### PROGRAM DEVELOPMENT

This section is intended to identify anticipated development phasing and improvements necessary for the completion of the NOR ESTE SECTION DEVELOP-MENT PLAN. Assignment of improvements by subareas was not included due to continually changing ownership patterns and the uncertainty of platting and development phasing associated with property owners other than Presley Company of New Mexico.

#### Phasing

Presley Company of New Mexico is the major landowner within NOR ESTE. Presley Company is presently programming the sequence of development in such a manner as to develop their land holdings in NOR ESTE I as the first phase, with subsequent phasing of NOR ESTE II. As noted on the Proposed Land Use/Zoning map, eight independent landowners comprise the balance of ownership within NOR ESTE. To date, no specific schedules for development of these subareas have been identified.

#### Utilities Development

Development and extension of various infrastructure improvements (water, sanitary sewer, storm drainage, paving and minor utilities) lie with each respective developer in accordance with the *Line Extension Policies*, City of Albuquerque Subdivision Ordinances, Development Process Manual(s) and policies of the respective utility companies.



### APPENDIX A ARCHAEOLOGICAL SURVEY

### AN ARCHAEOLOGICAL SURVEY OF THE PRESLEY COMPANY SECTOR DEVELOPMENT PLAN BERNALILLO COUNTY, NEW MEXICO

#### Prepared for

Espey, Huston and Associates, Inc. 4801 Indian School Road NE Albuquerque, New Mexico 87112

bу

Christopher Lintz

Mariah Associates, Inc. 2825-C Broadbent Parkway N.E. Albuquerque, New Mexico 87107 (505) 345-2466

September 24, 1986

#### ABSTRACT

This report describes the results of a Class III cultural resource survey conducted on September 22, 1986, on two parcels of land totalling 160 acres located on the Elena Gallegos Grant north of Albuquerque, New Mexico. This report is prepared for Espey, Huston and Associates, Inc., on behalf of the Presiey Company of New Mexico.

The pedestrian survey noted the presence of abundant recent hunting residue, trash dumps and scatters throughout the area. Site and isolated occurrence (I.O.) designations were only assigned to prehistoric materials, early dumps, and areas of non-hunting, non-dumping activities. The survey assigned one site number (LA 56119) to one late 1940-early 1950 possible military storage facility, and isolated occurrences to a recent rock hearth (IO-1), an early historic dump (IO-2), and two isolated prehistoric tools (IO-3 and 4).

All three historic sites and isolated occurrences fail to meet the 50 year minimum eligibility requirements for the National Register of Historic Places, and the two non-temporally diagnostic stone tools were found as isolated occurrences without cultural integrity. Thus, the cultural resources of the two parcels merit no further work.

#### **ACKNOWLEDGEMENTS**

Several people aided in the development of this report. Their contributions are deeply appreciated. Dr. Don Albert, historian with Kirtland Air Force Base provided suggestions about the possible historic military supply camp located during the survey. Mr. Dan Montoya of the Albuquerque Planning Department clarified recent changes in the street names surrounding the project area: the Alameda Boulevard and Modesto Boulevard designations used in this report appear as Richfield Avenue, and Alameda Avenue on Albuquerque city maps prior to 1984.

## TABLE OF CONTENTS

| Abstract   | i   |
|--|-----|
| Acknowledgements   | ii  |
| Introduction   | 1   |
| Project Area   | 1   |
| Survey Methods   | 4   |
| Cultural Resources and Survey Results                            | 5   |
| Site LA 56119  | 5   |
| Isolated Occurrence 1  | 6   |
| Isolated Occurrence 2  | 6   |
| Isolated Occurrence 3  | 7   |
| Isolated Occurrence 4  | 7   |
| Summary and Recommendations                                      | 9   |
| Bibliography  LIST OF FIGURES                                    | 1 Ø |
| Timung 1 Business have Mark                                      | •   |
| Figure 1. Project Area Map                                       |     |
| Figure 2. Prehistoric Chipped Stone Artifacts from IO-3 and IO-4 | 8   |
| LIST OF TABLES   |     |
| Table 1. Universal Transverse Mercator Coordinates of the        | 1   |

## INTRODUCTION

This report is submitted in fulfillment of a contractual agreement dated September 18, 1986, between Espey, Huston and Associates, Inc. and Mariah Associates, Inc. for a cultural resource evaluation of property to be developed by Presley Company of New Mexico. The project was initiated at the request of Mr. Randy Traynor, Espey Huston and Associates, Inc., and administered by Mr. John Acklen who served as Principal Investigator. A pedestrian survey was conducted on two parcels of land totalling 160 acres by Dr. Christopher Lintz and Mr. Jon Frizell of Mariah Associates, Inc. The site files at the Laboratory of Anthropology, Santa Fe, were consulted by Ms. Amy Earls. The report was produced by Ms. Joann Oliver and Ms. Brenda Pietrzak. The following report describes the project location and environment, survey methods, survey results, and an assessment of the cultural resources within the project area.

## PROJECT AREA

The project area consists of two parcels of land on the Elena Gallegos Grant north of Albuquerque (Figure 1). The northern parcel is bounded by Modesto and Alameda Boulevards to the north and south, and Wyoming Boulevard and Barstow Street to the west and east, respectively. This parcel measures 1584 ft. (483 m) north-south by 2640 ft. (804 m) east-west and encompasses 96 acres.

The second parcel is located 1056 ft (322 m) to the south and is bounded by Wilshire and Anaheim Streets to the north and south, and by Wyoming Boulevard and Barstow Street to the west and east. The Universal Transverse Mercator Grid coordinates for the corners of these two parcels are provided in Table 1.

Table 1. The Universal Transverse Mercator Grid Coordinates of the Project Area.

## North Parcel Location

Northwest Corner: Zone 13, E 358060 m, N 3894870 m.
Northeast Corner: Zone 13, E 358860 m, N 3894850 m.
Southwest Corner: Zone 13, E 358050 m, N 3894410 m.
Southeast Corner: Zone 13, E 358850 m, N 3894368 m.

## South Parcel Location

Northwest Corner: Zone 13, E 358042 m, N 3894095 m.
Northeast Corner: Zone 13, E 358845 m, N 3894075 m.
Southwest Corner: Zone 13, E 358040 m, N 3893750 m.
Southeast Corner: Zone 13, E 358840 m, N 3893740 m.

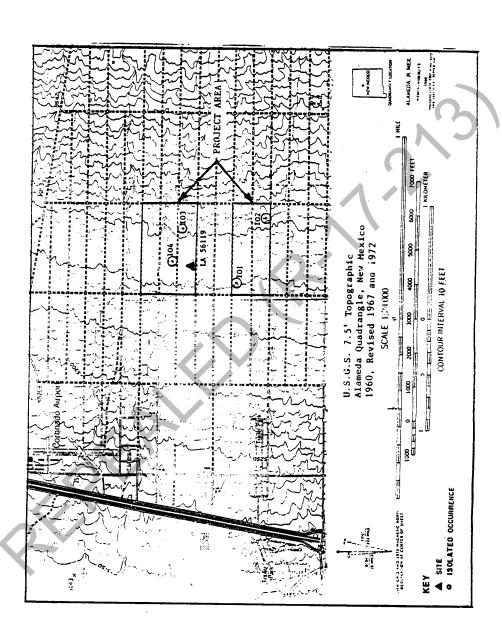


Figure 1. Project Area Map

The project is located on the west facing slope of the alluvial fans derived from the west base of the Sandia Mountains. Elevations of the project area range from 5480 to 5390 ft msl, and the ground surface generally slopes west at 3.4 percent (United States Geological Survey 1960). Throughout this area the fan has been dissected by many weakly defined intermittent washes, which only transport excessive run-off from melting snow and rains. The drainages are spaced approximately 200 ft. apart, and are separated by east-west trending ridges 15 to 20 ft. high. The washes are generally not incised into the old alluvial fan, but rather the ridge slopes gradually meet the modern alluvium at a low angle. Steep banks measuring no more than two to three feet high are only present along portions of La Cueva Arroyo in the northern parcel.

Soils of the project area are classified as belonging to the Hapargids- Camborthids- Torriorthents Associations characteristic of the light colored soils of the warm desertic region (Maker and others 1978: 30). These soils tend to be deep to moderately deep, forming in moderately coarse to fine textured alluvium. The soils tend to be light brown to brown noncalcareous fine sandy loam with a gravelly to stony surface. Within the project area, the surface is littered with decomposing coarse granitic sand. The washes are filled with poorly consolidated coarse alluvium which is subject to frequent transport during rainstorms.

Vegetation in the project area is dominated by short to mid-length grasses, forbes and rarely shrubs. Major plant species noted include Russian thistle (Salsola kali), Blue grama (Bouteloua gracilis), Black grama (Bouteloua eriopoda), Sand dropseed (Sopobolus spp.), Broom snakeweed (Gutierrezia sarothrae), and Sideoats grama (Bouteloua curtipendula). Other species occurring less often include Galleta (Hilaria jamesii), yucca (Yucca spp.), and Threeawn (Aristida spp.).

Wildlife observed during the survey included jack rabbits (Lepus californicus), cottontails (Sylvilagus floridanus), several unidentified species of mice and lizards, bull snake (Pituophis melanoleucus), quail (Callipepla spp), meadow lark (Sturnella neglecta), dove (Zenaidura macuroura), raven (Corvus corax), and road runner (Geococcyx californianus). Scat of wild canids or domesticated dogs and dens of small to medium-sized mammals were also observed.

The survey area has undergone a certain amount of modification and development. Wyoming Boulevard is paved as far as La Cuerva High School located between the two survey parcels. Major improved dirt roads include Wyoming Boulevard beyond the high school, and Bristow Road. Both streets have maintained borrow ditches and are regularly graded. All of the eastwest streets through and adjacent to the project area are unimproved poorly defined rutted roads, except next to the high school, which has been partially paved. Other developments include the existance of the Covent United Methodist Church in the northwest corner of the southern parcel, and the Hilltop Auto Salvage yard along the western edge of the north parcel. Finally, the south bank of La Cuerva Arroyo within the north parcel has been stabilized with pavement and concrete chunks and fill, and portions of the wash may have been cleaned to help channel the run-off.

## SURVEY METHODS

The initial research design submitted called for a vehicle and pedestrian reconnaissance of the land areas to be impacted. Dirt roads were to be walked and/or driven slowly in search of cultural materials. All cut banks were to be examined for intact buried deposits and linear transects will be walked between each drainage in search of cultural materials exposed on the surface (Acklen 1986). Initially, the perimeter of the parcel was driven to obtain a general feel for the land. This brief overview revealed that cut bank and defined terraces were rarely present, which necessitated a modification of the survey methods. The modification opted for a 100% pedestrian survey coverage of the project area.

The survey was accomplished in corridor transects. The existing roadways were used as survey block 0.5 miles long (east-west) and 0.1 miles wide (north-south). Two surveyors walked zig-zag patterns within separate east-west corridor transects 30 - 40 m wide. Eight individual transects were used to cover the southern parcel and sixteen were used to examine the northern parcel. All areas except the developed portion of the church grounds and the auto salvage yard were covered. Special emphasis was placed on examining roadways, ant dens, rodent burrow piles, and cut banks as subsurface cultural materials can often be detected in such disturbances.

Considerable amounts of trash were observed throughout the project area. Much of it tended to be located near roadways -- particularly at intersections with gullies and washes. Piles of building materials (bricks, boards, milled lumber, shingles, etc.), yard materials (grass clippings, dead trees, bushes, piles of colored rocks), household furnishings (televisions, mattresses, bed springs, lawn chairs, etc.), clothing and piles of garbage are fairly ubiquious throughout the project area and attest to the rampant illegal dumping which has occurred in conjunction with easy access following road development during the past 25 years. Other trash scatters could be attributed to wind-blown litter on upper slopes and water-transported materials in arroyo channels. Also prevalent throughout the area is abundant evidence of hunting/target practice. Three modern arrow shafts were observed as well as numerous cartridges, clay pigeon fragments, patterned arrangements of shattered bottles and cans, a few bullets and approximately a half dozen rabbit carcasses. None of this material was seriously recorded during the survey.

Survey emphasis was instead placed on identifying cultural deposits older than 50 years (the minimum age requirement for National Register nomination criteria), locating prehistoric localities and on finding areas of activities which do not relate to recent trash disposal or hunting. When such a locality was encountered, the site location was plotted on a topographic map, and standard site or isolated occurrence forms were completed. Sketches were made of the prehistoric artifacts, but no collections were made from any of the sites or isolated occurrences. Copies of site and isolated occurrence records from the project are on file at the Mariah Associates, Inc., Albuquerque office; a copy of the site form has been submitted to the Laboratory of Anthropology at Santa Fe.

## CULTURAL RESOURCES AND SURVEY RESULTS

The pedestrian survey encountered and recorded five cultural resources. One locality (MA290-3) was designated a site since it contained evidence of substancial patterned activity, and four other localities were regarded as isolated occurrences because of the ephemeral nature of the cultural remains. This section discusses each of the cultural localities.

Site LA 56119

Field number: MA290-3

Location: (UTM coordinate) Zone 13, E 358310 m, N 3894420 m.

Elevation: 5420 ft. msl.

This site is a temporary military storage and packing facility located on a ridge crest in the south-central portion of the north parcel 15 to 42 m north of Alameda Boulevard, nearly due north of the flagpole in front of La Cuerva High School. Scattered remains from the site occur across an area measuring approximately 37 m (e-w) by 20 m (n-s); however, the basal portions of three pipe fence posts were found enclosing an area 14 m (e-w) by 27 m (n-s). Bulldozing associated with the borrow ditch development of Alameda Boulevard has destroyed the southern 13 m of the site, as indicated by a dislocated metal fencepost. Thus, only the northern 14 m of the site remains relatively intact.

Materials observed on the site include disintegrated remnants of olive drab insulated canvas tents, at least 22 wood frame window units, a few small wooden crate boxes, numerous bailing straps, wads of decomposed newspapers, common barbed wire, chain link fence fragments, non-military issued beer and food cans and numerous mechanical shutter openers (?) with the designation "Soldermatic, Pat Pending" and "Universal Flashlight Co./ Washington D.C." stamped on the chrome handles.

Use dates for the site are derived from identification labels on the rotted canvas: "Tent, Frame-Type, Insulated Sectional with Floor/ 16 X 16 FT., M-1948 Complete/ MIL-T 10168 (QMC) - AMEND 1,-23 Feb. 19..." and scraps of decomposed newspaper copyrighted 1947. The earlier date on the newspaper suggests that is was used as packing material surrounding some unidentified goods stored in more recent tents. The presence of insulated tents suggests that the site was occupied by personnel or that the goods had to be climatically regulated. The great number of wooden window frames indicate that several tents were once present. A check with the Kirtland Air Force base historian, Dr. Don Alberts, failed to identify the dates of usage or precise function of this site. The extreme deterioration of the canvas coupled with the newspaper dates tentatively suggests that the site was used during the late 1940-early 1950, perhaps in conjunction with personnel training or goods shipment during the Korean War (?).

Isolated Occurrence 1
Field Number: MA290-1

Location: (UTM Coordinate) Zone 13, E 358155 m, N 3894055 m.

Elevation: 5400 ft. msl.

This isolated occurrence relates to a recent historic hearth located on the undeveloped land east of the Covent Methodist Church in the northwest corner of the south parcel. The feature consists of a large stone-lined hearth with outside diameter measurements or 2.65 m (e-w) by 2.35 m (n-s). It is made from double-lined local granite rocks measuring up to 32 by 30 cm and large broken concrete slabs measuring up to 40 by 47 cm. The hearth is filled with charcoal and remnants of plywood and milled lumber scrap. A small pile of unburned milled lumber is located to the east.

This hearth feature probably relates to some church activities. It may merely represent efforts to dispose of scrap building materials derived from remodeling or other church projects. The condition of the charcoal and minimal weathering to the lumber suggests that the hearth is probably less than five years old.

Isolated Occurrence 2 Field Number: MA290-2

Location: (UTM Coordinate) Zone 13, E 358720 m, N 3893785 m.

Elevation: 5465 ft. msl.

This isolated occurrence number was assigned to a 3 by 3 m ridge crest area in the southeast corner of the southern parcel which was originally thought to represent an early dump. The scatter consisted of purple and clear glass predominantly from pressed glass (faceted) containers. Other objects include a metal case for eye glasses, a 6 d wire nail, aqua, clear and amber glass sherds to various soda bottles and canning jars. Necks of clear glass twist (but nonscrew-top) bottles, and a clear glass handle to a pitcher.

The pressed glass included a purple glass rectangular butter-dish or casserole lid with rectangular handles on the narrow ends, and a radial ribbed or "sun-burst" pattern. A clear pressed glass bowl had a large "hobnail or dew-drop" patterns on the sides (which contributed to the undulating rim), and a radial ribbed pattern with small hobnail dots on the base (Lee 1933). A third clear pressed glass container represented a lid to a small oval bowl; it had a clear oval center, and curving and overlapping looping lines extending to the rim of the lid. A fourth pressed glass bowl (?) had yellow paint over an unidentifiable ribbed pattern.

Bottles with makers' marks or company names include a fragment from a small clear "Atlas Perfect Mason" canning jar. Another is a clear quart jar base with the embossed insigna "23 45"; these marks indicate that the bottle was made by the Owens Illinois company plant 23 during 1945 (Toulouse 1971). A third jar is a clear bottle with a central number "576" enclossed by an "Owens Ring" mark, and the numbers "3R ... 5 1".

The great number of pressed glass vessels and a few purpled glass fragments generally indicates that the dump should post-date World War I (Kendrick 1966:57). The Owens Ring mark also indicates a post-1903 manufacture date (Kendrick 1966:81). The clearest indication of dump age is derived from the Owens Illinois bottle base. This single specimen suggests that the entire dump post-dates 1945. Thus, the small area could reflect multiple dumping episodes, or represent a single dumping episode of early materials mixed with later articles after 1945.

Isolated Occurrence 3
Field Number: MA290-4

Elevation: 5460 ft. msl.

Location: (UTM Coordinate) Zone 13, E 358325 m, N 3894500 m.

This locality designates an isolated prehistoric chipped stone tool found on a ridge crest in the southwest quadrant in the northern parcel (Figure 2a). The artifact is a large rhyolite gray flake with unidirectional marginal retouch along the distal and right lateral dorsal surface. The flake platform is nonfaceted and does not have cortex on it, but cobble cortex covers approximately 50-60 percent of the dorsal flake surface. The dimensions of the tool are length: 6.1 cm; width: 4.6 cm; and thickness: 2.1 cm. The coarse marginal retouch pattern has left a denticulate-like edge, which may have served in a variety of coarse plant or animal processing activities (Tainter 1979).

The tool is temporally and culturally undiagnostic. Rhyolite cobbles were not observed in the project area, so the cobble must have been imported from a base camp elsewhere. The tool is believed to reflect some limited prehistoric plant or processing activity in the project area.

Isolated Occurrence 4
Field Number: MA290-5

Location: (UTM Coordinate) Zone 13, E 358350 m, N 3894610 m.

Elevation: 5422 ft. msl.

This number was assigned to an isolated prehistoric tool locality on a high north facing ridge slope south of La Cuerva Arroyo in the center of the north parcel. The artifact is a gray coarse quarzite cobble core which shows several flake removal scars on one end and minimal battering along natural ridges on two rounded edges (Figure 2b). The cobble core measures 8.1 cm, length; 8.5 cm, width; and 4.6 cm, thickness. This item is thought to be a stream rolled cobble carried to the project area to serve as a raw material supply for obtaining sharp flakes used in unidentifiable processing activities. The artifact is not diagnostic of any time period or cultural group.

Figure 2. Prehistoric Chipped Stone Artifacts from 10-3 and 10-4

**b**)

## SUMMARY AND RECOMMENDATIONS

A Class III cultural resource survey was conducted by Mariah Associates personnel on two parcels of land totalling 160 acres and bounded by Wyoming and Barstow roads to the west and east, and Anaheim and Modesto to the south and north. Abundant modern trash and hunting debris litter the entire project area. Five localities were recorded. One site (LA 56119) is believed to be a deteriorating military storage facility. Isolated occurrence designations were assigned to a modern rock and concrete hearth (OI-1) located near and probably affiliated with the Covent Methodist Church, an early historic dump (OI-2) which may post-date 1945, and t/o prehistoric artifact isolates: a large retouched flake (OI-3) and a cobble core (OI-4). The project area has been utilized by prehistoric groups, but the nature of activities has left little detectable remains. The topography and soils within the project area are generally outwashed alluvial deposits from the Sandia Mountains. The low ridges within the project have been formed primarily from wash erosion and deflation which involves a process not conducive for burying cultural remains. Thus, the presence of undetected, buried deposits in the project area is unlikely.

None of the sites or isolated occurrences meet the eligibility requirements for the National Register of Historic Places. The probable military supply camp (LA 56119), the 1940s-50s dump, and recent stone and concrete hearth are all less than 50 years old. The two prehistoric non-diagnostic artifacts occur as isolates without contextural integrity. Thus no additional cultural resource evaluations are recommended before these two parcels are developed.

## BIBLIOGRAPHY

- Acklen, John
  - 1986 Letter to Randy Traynor of Espey Huston and Associates Inc., dated September 12, 1986, detailing the scope of services for the Presley Company Sector Development Plan Survey.
- Kendrick, Grace
  - 1966 The Antique Bottle Collector. Hawthorne Books, Inc. New York.
- Lee, Ruth Webb
  - 1933 Early American Pressed Glass. Ferris Printing Co., New York.
- Maker, H.J., H.E. Dregne, V.G. Link, and J.U. Anderson

  1978 Soils of New Mexico. New Mexico State University, Agricultural

  Experimental Station, Research Report 285, Las Cruces.
- Tainter, Joseph A.
  - 1979 A Functional Analysis of the Croton Creek Lithic Scatter, Roger Mills County, Oklahoma. <u>Bulletin of the Oklahoma</u>
    Anthropological Society, vol. 28: 137-146.
- Toulouse, Julian Harrison
  - 1971 Bottle Makers and Their Marks. Thomas Nelson Inc., New York.
- United States Geological Survey
  - 1960 Alameda Quadrange, New Mexico. <u>United States Geological Survey</u>
    7.5 <u>Minute Series Topographic Map.</u> Denver.



# APPENDIX B TRIP GENERATION SUMMARY/RATES/ASSIGNMENTS

NOR ESTE I
SUMMARY OF AVERAGE VEHICLE TRIP GENERATION
AVERAGE WEEKDAY DRIVEWAY VOLUMES

| **********              |                    |           |       |           |      |  |  |  |
|-------------------------|--------------------|-----------|-------|-----------|------|--|--|--|
|                         | 24 HOUR<br>TWO-WAY | 7-9 AM PK | HOUR  | 4-6 PM PK | HOUR |  |  |  |
|                         | VOLUME             | ENTER     | EXIT  | ENTER     | EXIT |  |  |  |
| ******                  | *****              | *****     | ***** | ******    | **** |  |  |  |
| SINGLE FAMILY DWELLINGS | 1860               | 39        | 102   | 117       | 69   |  |  |  |
| SINGLE FAMILY DWELLINGS | 1670               | 35        | 92    | 105       | 62   |  |  |  |
| SINGLE FAMILY DWELLINGS | 1140               | 24        | 63    | 72        | 42   |  |  |  |
| TOTAL                   | 4670               | 98        | 257   | 294       | 173  |  |  |  |

## NOTE: ZERO TRIPS RESULTS FROM NO TRIP RATE DATA

THE ABOVE RESULTS ARE REPRESENTATIVE OF MEASUREMENTS MADE AT SIMILAR LAND USES AS IDENTIFIED IN 'TRIP GENERATION, AN INFORMATIONAL REPORT', THIRD EDITION, 1983, INSTITUTE OF TRANSPORTATION ENGINEERS

LOCAL CONDITIONS OR SPECIFIC USES MAY CAUSE DIFFERENT RESULTS

NOR ESTE II
SUMMARY OF AVERAGE VEHICLE TRIP GENERATION
AVERAGE WEEKDAY DRIVEWAY VOLUMES

| ********                | *****              | *******   | ***** | ******    | **** |
|-------------------------|--------------------|-----------|-------|-----------|------|
|                         | 24 HOUR<br>TWO-WAY | 7-9 AM PK | HOUR  | 4-6 PM PH | HOUR |
| ·                       | VOLUME             | ENTER     | EXIT  | ENTER     | EXIT |
| ********                | *****              | ******    | ***** | ******    | **** |
| SINGLE FAMILY DWELLINGS | 1020               | 21        | 56    | 64        | 38   |
| SINGLE FAMILY DWELLINGS | 1280               | 27        | 70    | 81        | 47   |
| SINGLE FAMILY DWELLINGS | 660                | 14        | 36    | 42        | ≥4   |
| AFARTMENT '             | 1739               | 29        | 114   | 134       | 66   |
| AFARTMENT               | 726                | 12        | 48    | 56        | 27   |
| GENERAL OFFICE          | 1386               | 166       | 29    | 32        | 188  |
| GENERAL OFFICE          | 975                | 117       | 20    | 22        | 133  |
| TOTAL                   | 7786               | 386       | 373   | 431       | 523  |
| ********                | *****              | *******   | ***** | ********  | **** |

NOTE: ZERO TRIPS RESULTS FROM NO TRIP RATE DATA

THE ABOVE RESULTS ARE REPRESENTATIVE OF MEASUREMENTS MADE AT SIMILAR LAND USES AS IDENTIFIED IN TRIP GENERATION, AN INFORMATIONAL REPORT, THIRD EDITION, 1983, INSTITUTE OF TRANSPORTATION ENGINEERS

LOCAL CONDITIONS OR SPECIFIC USES MAY CAUSE DIFFERENT RESULTS

NOR ESTE I SUMMARY OF AVERAGE VEHICLE TRIP GENERATION SATURDAY AND SUNDAY DRIVEWAY VOLUMES

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

|  | SATURDAY     |          |          | SUNDAY             |          |          |
|--|--------------|----------|----------|--------------------|----------|----------|
|  | 24 HOUR      | PEAK     | HOUR     | 24 HOUR<br>TWO-WAY | PEAK     | HOUR     |
|  | VOLUME       | ENTER    | EXIT     | VOLUME             | ENTER    | EXIT     |
| *******  | *****        | *****    | *****    | ******             | *****    | ****     |
| SINGLE FAMILY DWELLINGS<br>SINGLE FAMILY DWELLINGS | 1879<br>1687 | 95<br>85 | 84<br>75 | 1618<br>1453       | 91<br>82 | 84<br>75 |
| SINGLE FAMILY DWELLINGS                            | 1151         | 58       | 51       | 992                | 56       | 51       |
| TOTAL  | 4717         | 238      | 210      | 4063               | 229      | 210      |
|  | ******       | *****    | *****    | *****              | ******   | *****    |

NOTE: ZERO TRIPS RESULTS FROM NO TRIP RATE DATA

THE ABOVE RESULTS ARE REPRESENTATIVE OF MEASUREMENTS MADE AT SIMILAR LAND USES AS IDENTIFIED IN 'TRIP GENERATION, AN INFORMATIONAL REPORT', THIRD EDITION, 1983, INSTITUTE OF TRANSPORTATION ENGINEERS

LOCAL CONDITIONS OR SPECIFIC USES MAY CAUSE DIFFERENT RESULTS

NOR ESTE II
SUMMARY OF AVERAGE VEHICLE TRIP GENERATION
SATURDAY AND SUNDAY DRIVEWAY VOLUMES

|   | SATURDAY           |           |          | SUNDAY             |         |          |
|---|--------------------|-----------|----------|--------------------|---------|----------|
|   | 24 HOUR<br>TWO-WAY | PEAK      | HOUR     | 24 HOUR<br>TWO-WAY | PEAK    | HOUR     |
|   | VOLUME             | ENTER     | EXIT     | VOLUME             | ENTER   | EXIT     |
| *******   | ******             | *****     | *****    | *****              | ******  | ****     |
| SINGLE FAMILY DWELLINGS                         | 1030               | 52        | 46       | 887                | 50      | 46       |
| SINGLE FAMILY DWELLINGS SINGLE FAMILY DWELLINGS | 1293<br>667        | <b>65</b> | 58       | 1114               | 63      | 58       |
| APARTMENT                                       | 1796               | 34<br>Ø   | 30<br>29 | 574<br>1596        | 32<br>Ø | 30<br>29 |
| APARTMENT                                       | 750                | 0         | 12       | 666                | Ø       | 12       |
| GENERAL OFFICE                                  | 188                | 0         | Ø        | 94                 | 0       | Ø        |
| GENERAL OFFICE                                  | 133                | Ø         | 0        | 66                 | Ø       | Ø        |
| TOTAL   | 5857               | 151       | 175      | 4997               | 145     | 175      |
|   |                    |           |          |                    |         |          |

NOTE: ZERO TRIPS RESULTS FROM NO TRIP RATE DATA

THE ABOVE RESULTS ARE REPRESENTATIVE OF MEASUREMENTS MADE AT SIMILAR LAND USES AS IDENTIFIED IN 'TRIF GENERATION, AN INFORMATIONAL REPORT', THIRD EDITION, 1983, INSTITUTE OF TRANSPORTATION ENGINEERS

LOCAL CONDITIONS OR SPECIFIC USES MAY CAUSE DIFFERENT RESULTS

NOR ESTE I
SUMMARY OF TRIP GENERATION CALCULATION
FOR 186 DWELLING UNITS OF SINGLE FAMILY DWELLINGS
11-10-86

| *********  |   |  |   |   |   |  |
|--|---|--|---|---|---|--|
|  | AVG<br>TRIPS  | MAX<br>TRIPS   | MIN<br>TRIPS  | NO.<br>DATA   | AVG<br>SIZE   |  |
| ******   | *****   | *****  | *****   | *****   | *****   |  |
| AVG WKDY 2-WAY VOL 7-9 AM PK HR ENTER 7-9 AM PK HR EXIT 7-9 AM PK HR TOTAL 4-6 PM PK HR ENTER 4-6 PM PK HR EXIT 4-6 PM PK HR EXIT 4-6 PM PK HR TOTAL AM GEN PK HR EXIT AM GEN PK HR EXIT AM GEN PK HR EXIT PM GEN PK HR EXIT PM GEN PK HR EXIT PM GEN PK HR TOTAL SATURDAY 2-WAY VOL PK HR EXIT | 1860<br>39<br>102<br>141<br>117<br>69<br>186<br>39<br>102<br>141<br>117<br>69<br>186<br>1879<br>95<br>84<br>179<br>1618 | 4073<br>112<br>316<br>428<br>335<br>223<br>558<br>112<br>316<br>428<br>335<br>223<br>558<br>2734<br>186<br>130<br>316<br>2288<br>167 | 800<br>19<br>37<br>56<br>56<br>19<br>74<br>19<br>37<br>74<br>56<br>19<br>74<br>986<br>56<br>56<br>130<br>93 | 308<br>70<br>76<br>209<br>71<br>76<br>233<br>70<br>76<br>209<br>71<br>76<br>233<br>78<br>48<br>53<br>64<br>73<br>46 | 387.0<br>229.0<br>235.0<br>229.0<br>229.0<br>2277.0<br>235.0<br>257.0<br>229.0<br>277.0<br>244.0<br>245.0<br>245.0<br>215.0 |  |
| PK HR EXIT PK HR TOTAL ************************************  | 84<br>175<br>*****  | 223<br>372<br>*****  | 56<br>112<br>*****  | 51<br>63<br>*****   | 236.0   |  |
|  | ₩   |  |   |   |   |  |

NOTE: ZERO TRIPS RESULTS FROM NO TRIP RATE DATA

THE ABOVE RESULTS ARE REPRESENTATIVE OF MEASUREMENTS MADE AT SIMILAR LAND USES AS IDENTIFIED IN TRIP GENERATION, AN INFORMATIONAL REPORT, THIRD EDITION, 1983, INSTITUTE OF TRANSPORTATION ENGINEERS

LOCAL CONDITIONS OR SPECIFIC USES MAY CAUSE DIFFERENT RESULTS

NOR ESTE I
SUMMARY OF TRIP GENERATION CALCULATION
FOR 167 DWELLING UNITS OF SINGLE FAMILY DWELLINGS
11-10-86

| ****************** |       |             |       |       |       |  |
|--------------------|-------|-------------|-------|-------|-------|--|
|                    | AVG   | . MAX       | MIN   | NO.   | AVG   |  |
|                    | TRIPS | TRIPS       | TRIPS | DATA  | SIZE  |  |
|                    |       |             |       |       |       |  |
| *******            | ***   | '********** | ****  | ***** | ***** |  |
| AVG WKDY 2-WAY VOL | 1670  | 3657        | 718   | 308   | 387.0 |  |
| 7-9 AM PK HR ENTER | 35    | 100         | 17    | 70    | 229.0 |  |
| 7-9 AM PK HR EXIT  | · 92  | 284         | 33    | 76    | 235.0 |  |
| 7-9 AM PK HR TOTAL | 127   | 384         | 50    | 209   | 257.0 |  |
| 4-6 PM PK HR ENTER | 105   | 301         | 50    | 71    | 229.0 |  |
| 4-6 PM PK HR EXIT  | 62    | 200         | 17    | 76    | 229.0 |  |
| 4-6 PM PK HR TOTAL | 167   | 501         | 67    | 233   | 277.0 |  |
| AM GEN PK HR ENTER | 35    | 100         | 17    | 70    | 229.0 |  |
| AM GEN PK HR EXIT  | 92    | 284         | 33    | 76    | 235.0 |  |
| AM GEN PK HR TOTAL | 127   | 384         | 67    | 209   | 257.0 |  |
| PM GEN PK HR ENTER | 105   | 301         | 50    | 71    | 229.0 |  |
| PM GEN PK HR EXIT  | 62    | 200         | 17    | 76    | 229.0 |  |
| PM GEN PK HR TOTAL | 167   | 501         | 67    | 233   | 277.0 |  |
| SATURDAY 2-WAY VOL | 1687  | 2455        | 885   | 78    | 244.0 |  |
| PK HR ENTER        | 85    | 167         | 50    | 48    | 226.0 |  |
| PK HR EXIT         | · 75  | 117         | 50    | 53    | 226.0 |  |
| PK HR TOTAL        | 160   | 284         | 117   | 64    | 244.0 |  |
| SUNDAY 2-WAY VOL   | 1453  | 2054        | 84    | 73    | 245.0 |  |
| PK HR ENTER        | 82    | 150         | 33    | 46    | 215.0 |  |
| PK HR EXIT         | 75    | 200         | 50    | 51    | 216.0 |  |
| PK HR TOTAL        | 157   | 334         | 100   | 63    | 236.0 |  |
| *****              | ****  | *****       | ***** | ****  | ***** |  |

NOTE: ZERO TRIPS RESULTS FROM NO TRIP RATE DATA

THE ABOVE RESULTS ARE REPRESENTATIVE OF MEASUREMENTS MADE AT SIMILAR LAND USES AS IDENTIFIED IN TRIP GENERATION, AN INFORMATIONAL REPORT', THIRD EDITION, 1983, INSTITUTE OF TRANSPORTATION ENGINEERS

LOCAL CONDITIONS OR SPECIFIC USES MAY CAUSE DIFFERENT RESULTS

NOR ESTE I
SUMMARY OF TRIP GENERATION CALCULATION

FOR 114 DWELLING UNITS OF SINGLE FAMILY DWELLINGS

11-10-86

| ******   | *****  | *****   | *****  | *****   | *****   |
|--|--|---|--|---|---|
|  | AVG<br>TRIPS   | MAX<br>TRIPS  | MIN<br>TRIPS   | NO.<br>DATA   | AVG<br>SIZE   |
| *******  | *****  | *****   | *****  | *****   | *****   |
| AVG WKDY 2-WAY VOL 7-9 AM PK HR ENTER 7-9 AM PK HR EXIT 7-9 AM PK HR TOTAL 4-6 PM PK HR ENTER 4-6 PM PK HR EXIT 4-6 PM PK HR EXIT 4-6 PM PK HR TOTAL AM GEN PK HR ENTER AM GEN PK HR EXIT AM GEN PK HR EXIT PM GEN PK HR EXIT PM GEN PK HR EXIT PM GEN PK HR TOTAL SATURDAY 2-WAY VOL PK HR ENTER PK HR EXIT | 1140<br>24<br>63<br>87<br>72<br>42<br>114<br>24<br>63<br>87<br>72<br>42<br>114<br>1151<br>58 | 2497<br>68<br>194<br>262<br>205<br>137<br>342<br>68<br>194<br>262<br>205<br>137<br>342<br>1676<br>114 | 490<br>11<br>23<br>34<br>34<br>11<br>46<br>11<br>23<br>46<br>34<br>11<br>46<br>504<br>34 | 308<br>70<br>76<br>209<br>71<br>76<br>233<br>70<br>76<br>209<br>71<br>76<br>233<br>78<br>48<br>53 | 387.0<br>229.0<br>235.0<br>257.0<br>229.0<br>277.0<br>229.0<br>235.0<br>257.0<br>229.0<br>277.0<br>244.0<br>226.0 |
| PK HR TOTAL<br>SUNDAY 2-WAY VOL  | 109  | 194<br>14 <b>0</b> 2  | 80<br>57   | 64<br>73  | 244.0   |
| PK HR ENTER  | 56   | 103   | 23   | 46  | 215.0   |
| PK HR EXIT<br>PK HR TOTAL  | 51<br>107  | 137<br>228  | 34<br>68   | 51<br>63  | 216.0<br>236.0  |
| *********  | *******  | ·*****  | *****  | *****   | *****   |

NOTE: ZERO TRIPS RESULTS FROM NO TRIP RATE DATA

THE ABOVE RESULTS ARE REPRESENTATIVE OF MEASUREMENTS MADE AT SIMILAR LAND USES AS IDENTIFIED IN 'TRIP GENERATION, AN INFORMATIONAL REPORT', THIRD EDITION, 1983, INSTITUTE OF TRANSPORTATION ENGINEERS

LOCAL CONDITIONS OR SPECIFIC USES MAY CAUSE DIFFERENT RESULTS

NOR ESTE II

SUMMARY OF TRIP GENERATION CALCULATION

FOR 102 DWELLING UNITS OF SINGLE FAMILY DWELLINGS

11-10-86

| *****  | ******   | *****  | *****  | *****   | *****   |
|--|--|--|--|---|---|
|  | AVG<br>TRIPS   | MAX<br>TRIPS   | MIN<br>TRIPS   | NO.<br>DATA   | AVG<br>SIZE   |
| *********  | *****  | *****  | *****  | *****   | ****  |
| AVG WKDY 2-WAY VOL 7-9 AM PK HR ENTER 7-9 AM PK HR EXIT 7-9 AM PK HR TOTAL 4-6 PM PK HR EXIT AM GEN PK HR ENTER AM GEN PK HR EXIT AM GEN PK HR EXIT AM GEN PK HR EXIT PM GEN PK HR EXIT PM GEN PK HR ENTER PM GEN PK HR ENTER PM GEN PK HR TOTAL SATURDAY 2-WAY VOL PK HR EXIT PK HR TOTAL SUNDAY 2-WAY VOL PK HR ENTER PK HR EXIT | 1020<br>21<br>56<br>78<br>64<br>38<br>102<br>21<br>56<br>78<br>64<br>38<br>1030<br>52<br>46<br>98<br>887 | 2234<br>61<br>173<br>235<br>184<br>122<br>306<br>61<br>173<br>235<br>184<br>122<br>306<br>1499<br>102<br>71<br>173<br>1255 | 439 10 20 31 31 10 41 10 41 31 10 41 541 31 71 51 20 | 308<br>76<br>76<br>209<br>71<br>76<br>233<br>76<br>209<br>71<br>76<br>233<br>48<br>53<br>46 | 387.0<br>229.0<br>235.0<br>257.0<br>229.0<br>227.0<br>235.0<br>257.0<br>257.0<br>26.0<br>277.0<br>226.0<br>244.0<br>245.0 |
| PK HR TOTAL  | 46<br>96   | 122<br>204   | 31<br>61   | 51<br>63  | 216.0<br>236.0  |
|  |  |  |  | *****   | ****  |

NOTE: ZERO TRIPS RESULTS FROM NO TRIP RATE DATA

THE ABOVE RESULTS ARE REPRESENTATIVE OF MEASUREMENTS MADE AT SIMILAR LAND USES AS IDENTIFIED IN TRIP GENERATION, AN INFORMATIONAL REPORT, THIRD EDITION, 1983, INSTITUTE OF TRANSPORTATION ENGINEERS

LOCAL CONDITIONS OR SPECIFIC USES MAY CAUSE DIFFERENT RESULTS

NOR ESTE II
SUMMARY OF TRIF GENERATION CALCULATION
FOR 128 DWELLING UNITS OF SINGLE FAMILY DWELLINGS
11-10-86

| *******  | *****   | ****   | *****  | *****   | *****  |
|--|---|--|--|---|--|
|  | AVG<br>TRIPS  | MAX<br>TRIFS   | MIN<br>TRIPS   | NO.<br>DATA   | AVG<br>SIZE  |
| *******  | *****   | ******   | *****  | *****   | ****   |
| AVG WKDY 2-WAY VOL 7-9 AM PK HR ENTER 7-9 AM PK HR EXIT 7-9 AM PK HR EXIT 7-9 AM PK HR ENTER 4-6 PM PK HR EXIT AM GEN PK HR ENTER AM GEN PK HR EXIT AM GEN PK HR EXIT PM GEN PK HR TOTAL SATURDAY 2-WAY VOL PK HR ENTER PK HR EXIT PK HR TOTAL | 1280<br>27<br>70<br>97<br>81<br>47<br>128<br>27<br>70<br>97<br>81<br>47<br>128<br>1293<br>65<br>58<br>123 | 2803<br>77<br>218<br>294<br>230<br>154<br>384<br>77<br>218<br>294<br>230<br>154<br>384<br>1882<br>128<br>90<br>218 | 550<br>13<br>26<br>38<br>38<br>13<br>51<br>13<br>26<br>51<br>38<br>13<br>51<br>678<br>38 | 308<br>70<br>76<br>209<br>71<br>76<br>233<br>70<br>76<br>209<br>71<br>76<br>233<br>78<br>48<br>53<br>64 | 387.0<br>229.0<br>235.0<br>257.0<br>229.0<br>277.0<br>235.0<br>257.0<br>244.0<br>226.0 |
| SUNDAY 2-WAY VOL   | 1114  | 1574   | 64   | 73  | 245.0  |
| PK HR ENTER<br>PK HR EXIT  | 63<br>58  | 115<br>154   | 26<br>38   | 46<br>51  | 215.0<br>216.0   |
| PK HR TOTAL  | 120   | 256<br>*****   | 77<br>******   | 63<br>*****   | 236.0<br>*****   |

NOTE: ZERO TRIPS RESULTS FROM NO TRIP RATE DATA

THE ABOVE RESULTS ARE REPRESENTATIVE OF MEASUREMENTS MADE AT SIMILAR LAND USES AS IDENTIFIED IN TRIP GENERATION, AN INFORMATIONAL REPORT, THIRD EDITION, 1983, INSTITUTE OF TRANSPORTATION ENGINEERS

LOCAL CONDITIONS OR SPECIFIC USES MAY CAUSE DIFFERENT RESULTS

NOR ESTE II

SUMMARY OF TRIP GENERATION CALCULATION

FOR 66 DWELLING UNITS OF SINGLE FAMILY DWELLINGS

11-10-86

| **************  |   |   |  |   |  |  |
|---|---|---|--|---|--|--|
|   | AVG<br>TRIPS  | MAX<br>TRIPS  | MIN<br>TRIPS   | NO.<br>DATA   | AVG<br>SIZE  |  |
| ******  | *****   | ·*****  | ·*****   | *****   | *****  |  |
| AVG WKDY 2-WAY VOL 7-9 AM PK HR ENTER 7-9 AM PK HR EXIT 7-9 AM PK HR TOTAL 4-6 PM PK HR ENTER 4-6 PM PK HR EXIT 4-6 PM PK HR EXIT 4-6 PM PK HR TOTAL AM GEN PK HR ENTER AM GEN PK HR EXIT AM GEN PK HR EXIT PM GEN PK HR EXIT PM GEN PK HR EXIT PM GEN PK HR ENTER PM GEN PK HR ENTER PM GEN PK HR TOTAL SATURDAY 2-WAY VOL PK HR EXIT PK HR TOTAL SUNDAY 2-WAY VOL PK HR ENTER | 660<br>14<br>36<br>50<br>42<br>66<br>42<br>66<br>57<br>42<br>66<br>57<br>57<br>57<br>57<br>57<br>57 | 1445<br>40<br>112<br>152<br>119<br>79<br>198<br>40<br>112<br>152<br>119<br>79<br>198<br>970<br>66<br>46<br>112<br>812 | 284<br>7<br>13<br>20<br>7<br>27<br>27<br>13<br>20<br>7<br>25<br>20<br>26<br>35<br>20<br>46<br>33<br>13 | 308<br>70<br>76<br>209<br>71<br>76<br>233<br>76<br>209<br>71<br>76<br>233<br>78<br>48<br>53<br>64<br>73<br>46 | 387.0<br>229.0<br>235.0<br>257.0<br>229.0<br>277.0<br>235.0<br>257.0<br>229.0<br>277.0<br>229.0<br>244.0<br>244.0<br>245.0 |  |
| PK HR EXIT  | 30<br>62  | 79<br>132   | 20<br>40   | 51<br>63  | 216.0<br>236.0   |  |
| ********  | *****   | *****   | ·*******   | <br>+*****  | *****  |  |

NOTE: ZERO TRIPS RESULTS FROM NO TRIP RATE DATA

THE ABOVE RESULTS ARE REPRESENTATIVE OF MEASUREMENTS MADE AT SIMILAR LAND USES AS IDENTIFIED IN 'TRIP GENERATION, AN INFORMATIONAL REPORT', THIRD EDITION, 1983, INSTITUTE OF TRANSPORTATION ENGINEERS

LOCAL CONDITIONS OR SPECIFIC USES MAY CAUSE DIFFERENT RESULTS

NOR ESTE II

SUMMARY OF TRIF GENERATION CALCULATION

FOR 285 DWELLING UNITS OF APARTMENT

11-10-86

| *******             | ****** | ·***** | ****** | ***** | ****   |
|---------------------|--------|--------|--------|-------|--------|
|                     | AVG    | MAX    | MIN    | NO.   | AVG    |
|                     | TRIPS  | TRIPS  | TRIFS  | DATA  | SIZE   |
|                     |        |        |        |       |        |
| *******             | ****** | ·****  | ****** | ·**** | *****  |
|                     |        |        |        |       |        |
| AVG WKDY 2-WAY. VOL | 1739   | 3506   | 143    | 115   | 267.0  |
| 7-9 AM PK HR ENTER  | 29     | 29     | Ø      | 21    | 246. Ø |
| 7-9 AM PK HR EXIT   | 114    | 171    | 29     | 22    | 240.0  |
| 7-9 AM PK HR TOTAL  | 143    | 285    | 29     | 74    | 216.0  |
| 4-6 PM PK HR ENTER  | 134    | 228    | 29     | 24    | 253.0  |
| 4-6 PM PK HR EXIT   | 66     | 143    | 29     | 25    | 247.0  |
| 4-6 PM PK HR TOTAL  | 200    | 456    | 29     | 92    | 217.0  |
| AM GEN PK HR ENTER  | 34     | 29     | 0      | 17    | 260.0  |
| AM GEN PK HR EXIT   | 137    | 171    | 29     | 18    | 252.0  |
| AM GEN PK HR TOTAL  | 171    | 285    | 29     | 82    | 215.0  |
| PM GEN PK HR ENTER  | 134    | 228    | 57     | 20    | 266.0  |
| PM GEN PK HR EXIT   | 66     | 143    | 29     | 21    | 259.0  |
| PM GEN PK HR TOTAL  | 200    | 456    | 29     | 101   | 218.0  |
| SATURDAY 2-WAY VOL  | 1796   | 2394   | 798    | 23    | 165.0  |
| PK HR ENTER         | 0      | 0      | 0      | Ø     | 0.0    |
| PK HR EXIT          | 29     | 0      | 0      | 1     | 124.0  |
| PK HR TOTAL         | 143    | 285    | 86     | 22    | 167.0  |
| SUNDAY 2-WAY VOL    | 1596   | 2138   | 684    | 21    | 174.0  |
| PK HR ENTER         | 2      | 0      | Ø      | 0     | 0.0    |
| PK HR EXIT          | 29     | 2      | 0      | . 1   | 124.0  |
| PK HR TOTAL         | 143    | 399    | 86     | 20    | 176.0  |
| *******             | ****** | ****** | *****  | ***** | ****   |

NOTE: ZERO TRIPS RESULTS FROM NO TRIP RATE DATA

THE ABOVE RESULTS ARE REPRESENTATIVE OF MEASUREMENTS MADE AT SIMILAR LAND USES AS IDENTIFIED IN 'TRIP GENERATION, AN INFORMATIONAL REPORT', THIRD EDITION, 1983, INSTITUTE OF TRANSPORTATION ENGINEERS

LOCAL CONDITIONS OR SPECIFIC USES MAY CAUSE DIFFERENT RESULTS

NOR ESTE II
SUMMARY OF TRIP GENERATION CALCULATION
FOR 119 DWELLING UNITS OF APARTMENT

| ********  | *****  | ***** | ***** | *****            | ***** |
|---|--------|-------|-------|------------------|-------|
|   | AVG    | MAX   | MIN   | NO.              | AVG   |
|   | TRIFS  | TRIPS | TRIFS | DATA             | SIZE  |
| ******  | *****  | ***** | ***** | <del>*****</del> | ***** |
| AVG WKDY 2-WAY VOL 7-9 AM PK HR ENTER 7-9 AM PK HR EXIT 7-9 AM PK HR TOTAL 4-6 PM PK HR ENTER 4-6 PM PK HR EXIT | 726    | 1464  | 60    | 115              | 267.0 |
|   | 12     | 12    | 0     | 21               | 246.0 |
|   | 48     | 71    | 12    | 22               | 240.0 |
|   | 60     | 119   | 12    | 74               | 216.0 |
|   | 56     | 95    | 12    | 24               | 253.0 |
|   | 27     | 60    | 12    | 25               | 247.0 |
| 4-6 PM PK HR TOTAL  | 83     | 190   | 12    | 92               | 217.0 |
| AM GEN PK HR ENTER  | 14     | 12    | 0     | 17               | 260.0 |
| AM GEN PK HR EXIT   | 57     | 71    | 12    | 18               | 252.0 |
| AM GEN PK HR TOTAL  | 71     | 119   | 12    | 82               | 215.0 |
| PM GEN PK HR ENTER PM GEN PK HR EXIT PM GEN PK HR TOTAL   | 56     | 95    | 24    | 20               | 266.0 |
|   | 27     | 60    | 12    | 21               | 259.0 |
|   | 83     | 190   | 12    | 101              | 218.0 |
| SATURDAY 2-WAY VOL PK HR ENTER PK HR EXIT PK HR TOTAL   | 750    | 1000  | 333   | 23               | 165.0 |
|   | 0      | 0     | 0     | 0                | 0.0   |
|   | 12     | 0     | 0     | 1                | 124.0 |
|   | 60     | 119   | 36    | 22               | 167.0 |
| SUNDAY 2-WAY VOL  | 666    | 893   | 286   | 21               | 174.0 |
| PK HR ENTER   | Ø      | 0     | Ø     | 0                | 0.0   |
| PK HR EXIT  | 12     | 0     | Ø     | 1                | 124.0 |
| PK HR TOTAL   | 60     | 167   | 36    | 20               | 176.0 |
| *******   | ****** | ***** | ***** | *****            | ***** |

TRIP ADJUSTMENT FACTOR IS 1

NOTE: ZERO TRIPS RESULTS FROM NO TRIP RATE DATA

THE ABOVE RESULTS ARE REPRESENTATIVE OF MEASUREMENTS MADE AT SIMILAR LAND USES AS IDENTIFIED IN TRIP GENERATION, AN INFORMATIONAL REPORT', THIRD EDITION, 1983, INSTITUTE OF TRANSPORTATION ENGINEERS

LOCAL CONDITIONS OR SPECIFIC USES MAY CAUSE DIFFERENT RESULTS

NOR ESTE II

SUMMARY OF TRIP GENERATION CALCULATION

FOR 87 1000 GR.SQ.FT. OF GENERAL OFFICE

11-10-86

| ******                  | ******  | *****             | ******   | ***** |
|-------------------------|---------|-------------------|----------|-------|
| AVG                     | MAX     | MIN               | NO.      | AVG   |
| TRIPS                   | TRIPS   | TRIPS             | DATA     | SIZE  |
| *******                 | ******* | <del>******</del> | ******   | ***** |
| •                       |         |                   |          |       |
| AVG WKDY 2-WAY VOL 1386 | 2506    | 766               | 20       | 50.2  |
| 7-9 AM PK HR ENTER 166  | 165     | 111               | 3        | 24.3  |
| 7-9 AM PK HR EXIT 29    | 70      | 13                | 3        | 24.3  |
| 7-9 AM PK HR TOTAL 195  | 330     | 122               | 15       | 41.9  |
| 4-6 PM PK HR ENTER 32   | 61      | 5                 | 3        | 24.3  |
| 4-6 PM PK HR EXIT 188   | 226     | 64                | 3        | 24.3  |
| 4-6 PM PK HR TOTAL 220  | 556     | 70                | 17       | 45.7  |
| AM GEN PK HR ENTER 190  | 288     | 112               | 5        | 47. Ø |
| AM GEN PK HR EXIT 39    | 90      | 14                | 5        | 47.0  |
| AM GEN PK HR TOTAL 229  | 520     | 125               | 17       | 49.6  |
| PM GEN PK HR ENTER 35   | 61      | 12                | - 5      | 47.0  |
| PM GEN PK HR EXIT 187   | 278     | 37                | 5        | 47.0  |
| PM GEN PK HR TOTAL 222  | 556     | 97                | 18       | 51.4  |
| SATURDAY 2-WAY VOL 188  | 1279    | 52                | 10       | 42.6  |
| PK HR ENTER 0           | 0       | 0                 | 0        | 0.0   |
| PK HR EXIT              | 0       | Ø                 | <b>Ø</b> | Ø. Ø  |
| PK HR TOTAL 38          | 67      | 17                | 5        | 58.4  |
| SUNDAY 2-WAY VOL 94     | 635     | 17                | 10       | 42.6  |
| PK HR ENTER Ø           | Ø       | Ø                 | 121      | Ø. Ø  |
| PK HR EXIT . Ø          | 0       | Ø                 | Ø        | 0.0   |
| PK HR TOTAL 14          | 32      | 5                 | 5        | 58.4  |

NOTE: ZERO TRIPS RESULTS FROM NO TRIP RATE DATA

THE ABOVE RESULTS ARE REPRESENTATIVE OF MEASUREMENTS MADE AT SIMILAR LAND USES AS IDENTIFIED IN TRIP GENERATION, AN INFORMATIONAL REPORT, THIRD EDITION, 1983, INSTITUTE OF TRANSPORTATION ENGINEERS

LOCAL CONDITIONS OR SPECIFIC USES MAY CAUSE DIFFERENT RESULTS

NOR ESTE II

SUMMARY OF TRIF GENERATION CALCULATION

FOR 58 1000 GR.SQ.FT. OF GENERAL OFFICE

11-10-86

| *****************  |   |   |   |   |  |  |
|--|---|---|---|---|--|--|
|  | AVG<br>TRIFS  | MAX<br>TRIPS  | MIN<br>TRIPS  | NO.<br>DATA   | AVG<br>SIZE  |  |
| *******  | ·******   | *****   | *****   | ******  | ****   |  |
| AVG WKDY 2-WAY VOL 7-9 AM PK HR ENTER 7-9 AM PK HR EXIT 7-9 AM PK HR EXIT 4-6 PM PK HR ENTER 4-6 PM PK HR EXIT 4-6 PM PK HR EXIT 4-6 PM PK HR EXIT AM GEN PK HR EXIT AM GEN PK HR EXIT AM GEN PK HR EXIT PM GEN PK HR EXIT | 975<br>117<br>20<br>138<br>22<br>133<br>155<br>134<br>27<br>161<br>24<br>132<br>156<br>133<br>0<br>27<br>66 | 1670<br>110<br>46<br>220<br>41<br>151<br>371<br>192<br>60<br>347<br>41<br>185<br>371<br>853<br>0<br>45<br>423 | 510<br>74<br>91<br>33<br>445<br>75<br>84<br>845<br>655<br>00<br>112<br>00 | 20<br>3<br>15<br>3<br>17<br>5<br>17<br>5<br>18<br>10<br>0 | 54.3393370060046004600<br>524.44.5779771.60082.00<br>540082.00 |  |
| PK HR TOTAL  | 0<br>10<br>*****  | 0<br>≧1<br>*****  | 0<br>3<br>*****   | Ø<br>5<br>******  | 0.0<br>58.4<br>****  |  |
|  |   |   |   |   |  |  |

NOTE: ZERO TRIPS RESULTS FROM NO TRIP RATE DATA

THE ABOVE RESULTS ARE REPRESENTATIVE OF MEASUREMENTS MADE AT SIMILAR LAND USES AS IDENTIFIED IN 'TRIP GENERATION, AN INFORMATIONAL REPORT', THIRD EDITION, 1983, INSTITUTE OF TRANSPORTATION ENGINEERS

LOCAL CONDITIONS OR SPECIFIC USES MAY CAUSE DIFFERENT RESULTS

NOR ESTE I
SUMMARY OF TRIP GENERATION RATES
FOR SINGLE FAMILY DWELLINGS
TRIPS PER DWELLING UNITS

| 11 | - | 10 | )-6 | 36 |
|----|---|----|-----|----|
|----|---|----|-----|----|

| ******             | *****        | *****  | ****** | ***** | ****  |
|--------------------|--------------|--------|--------|-------|-------|
|                    | AVG          | MAX    | MIN    | NO.   | AVG   |
|                    | TRIF         | TRIE   | TRIP   | OF    | SIZE  |
|                    | RATE         | RATE   | RATE   | DATA  | STUDY |
|                    | MAIL         | MAIL   | KHIL   | מיום  | 3.00  |
| ******             | *****        | ****** | ****** |       | ***** |
|                    |              |        |        |       |       |
| AVG WKDY 2-WAY VOL | 10.00        | 21.90  | 4.30   | 308   | 387.0 |
| 7-9 AM PK HR ENTER | 0.21         | 0.60   | 0.10   | 70    | 229.0 |
| 7-9 AM PK HR EXIT  | <b>0.</b> 55 | 1.70   | 0.20   | 76    | 235.0 |
| 7-9 AM PK HR TOTAL | 0.76         | 2.30   | 0.30   | 209   | 257.0 |
| 4-6 PM PK HR ENTER | 0.63         | 1.80   | 0.30   | 71    | 229.0 |
| 4-6 PM PK HR EXIT  | 0.37         | 1.20   | 0.10   | 76    | 229.0 |
| 4-6 PM PK HR TOTAL | 1.00         | 3.00   | 0.40   | 233   | 277.0 |
| AM GEN PK HR ENTER | 0.21         | 0.50   | 0.10   | 70    | 229.0 |
| AM GEN PK HR EXIT  | 0.55         | 1.70   | 0.20   | 76    | 235.0 |
| AM GEN PK HR TOTAL | 0.76         | 2.30   | 0.40   | 209   | 257.0 |
| PM GEN PK HR ENTER | 0.63         | 1.80   | 0.30   | 71    | 229.0 |
| PM GEN PK HR EXIT  | 0.37         | 1.20   | 0.10   | 76    | 229.0 |
| PM GEN PK HR TOTAL | 1.00         | 3.00   | 0.40   | 233   | 277.0 |
| SATURDAY 2-WAY VOL | 10.10        | 14.70  | 5.30   | 78    | 244.0 |
| PK HR ENTER        | 0.51         | 1.00   | 0.30   | 48    | 226.0 |
| PK HR EXIT         | 0.45         | 0.70   | 0.30   | 53    | 226.0 |
| PK HR TOTAL        | 0.96         | 1.70   | 0.70   | 64    | 244.0 |
| SUNDAY 2-WAY VOL   | 8.70         | 12.30  | 0.50   | 73    | 245.0 |
| PK HR ENTER        | 0.49         | 0.90   | 0.20   | 46    | 215.0 |
| PK HR EXIT         | 0.45         | 1.20   | 0.30   | 51    | 216.0 |
| PK HR TOTAL        | 0.94         | 2.00   | 0.60   | 63    | 236.0 |
|                    | 7            |        |        |       |       |

NOTE: A ZERO RATE INDICATES NO RATE DATA AVAILABLE

SOURCE: INSTITUTE OF TRANSPORTATION ENGINEERS
TRIP GENERATION, AN INFORMATIONAL REPORT
THIRD EDITION, 1983

NOR ESTE II

SUMMARY OF TRIP GENERATION RATES

FOR APARTMENT

TRIPS PER DWELLING UNITS

| **************     |              |       |       |       |       |
|--------------------|--------------|-------|-------|-------|-------|
|                    |              |       |       |       |       |
|                    | AVG          | MAX   | MIN   | NO.   | AVG   |
|                    | TRIF         | TRIP  | TRIP  | OF    | SIZE  |
|                    | RATE         | RATE  | RATE  | DATA  | STUDY |
|                    |              |       |       |       |       |
| *******            | *****        | ***** | ***** | ***** | ***** |
|                    |              |       |       |       |       |
| AVG WKDY 2-WAY VOL | 6.10         | 12.30 | 0.50  | 115   | 267.0 |
| 7-9 AM PK HR ENTER | 0.10         | 0.10  | 0.00  | 21    | 246.0 |
| 7-9 AM PK HR EXIT  | 0.40         | 0.60  | 0.10  | . 22  | 240.0 |
| 7-9 AM PK HR TOTAL | 0.50         | 1.00  | 0.10  | 74    | 216.0 |
| 4-6 PM PK HR ENTER | 0.47         | 0.80  | 0.10  | 24    | 253.0 |
| 4-6 PM PK HR EXIT  | 0.23         | 0.50  | 0.10  | 25    | 247.0 |
| 4-6 PM PK HR TOTAL | 0.70         | 1.60  | 0.10  | 92    | 217.0 |
| AM GEN PK HR ENTER | 0.12         | 0.10  | 0.00  | 17    | 260.0 |
| AM GEN PK HR EXIT  | 0.48         | 0.60  | 0.10  | 18    | 252.0 |
| AM GEN PK HR TOTAL | 0.60         | 1.00  | 0.10  | 82    | 215.0 |
| PM GEN PK HR ENTER | 0.47         | 0.80  | 0.20  | 20    | 266.0 |
| PM GEN PK HR EXIT  | 0.23         | 0.50  | 0.10  | 21    | 259.0 |
| PM GEN PK HR TOTAL | 0.70         | 1.60  | 0.10  | 101   | 218.0 |
| SATURDAY 2-WAY VOL | 6.30         | 8. 40 | 2.80  | 23    | 165.0 |
| PK HR ENTER        | 0.00         | 0.00  | 0.00  | 0     | 0.0   |
| PK HR EXIT         | 0.10         | 0.00  | 0.00  | 1     | 124.0 |
| PK HR TOTAL        | 0.50         | 1.00  | 0.30  | 22    | 167.0 |
| SUNDAY 2-WAY VOL   | 5.60         | 7.50  | 2.40  | 21    | 174.0 |
| PK HR ENTER        | 0.00         | 0.00  | 0.00  | 2     | 0.0   |
| PK HR EXIT         | 0.10         | 0.00  | 0.00  | 1     | 124.0 |
| PK HR TOTAL        | 0.50         | 1.40  | 0.30  | 20    | 176.0 |
|                    | <del>-</del> |       |       | _     |       |
|                    |              |       |       |       |       |

NOTE: A ZERO RATE INDICATES NO RATE DATA AVAILABLE

SOURCE: INSTITUTE OF TRANSPORTATION ENGINEERS
TRIP GENERATION, AN INFORMATIONAL REPORT
THIRD EDITION, 1983

NOR ESTE II
SUMMARY OF TRIF GENERATION RATES
FOR GENERAL OFFICE

TRIPS PER 1000 GR. SQ. FT.

11-10-86

| ******   | *****                                  | *****   | *****  | *****                                  | *****  |
|--|--|---|--|--|--|
|  | AVG                                    | MAX   | MIN  | NO.                                    | AVG  |
|  | TRIF                                   | TRIF  | TRIF   | OF                                     | SIZE   |
|  | RATE                                   | RATE  | RATE   | DATA                                   | STUDY  |
| AVG WKDY 2-WAY VOL 7-9 AM PK HR ENTER 7-9 AM PK HR EXIT 7-9 AM PK HR EXIT 7-9 AM PK HR ENTER 4-6 PM PK HR ENTER 4-6 PM PK HR EXIT 4-6 PM PK HR EXIT 4-6 PM PK HR EXIT AM GEN PK HR ENTER AM GEN PK HR EXIT AM GEN PK HR EXIT PM GEN PK HR TOTAL SATURDAY 2-WAY VOL PK HR ENTER | ************************************** | ********* 28.80 1.90 0.80 3.79 0.70 2.60 6.39 3.31 1.04 5.98 0.70 3.19 6.39 | 8.80<br>1.28<br>0.15<br>1.40<br>0.06<br>0.74<br>0.80<br>1.29<br>0.16<br>1.44<br>0.14<br>0.14<br>0.14 | ************************************** | *******<br>50.24.3<br>24.3<br>24.3<br>24.3<br>41.9<br>24.3<br>47.0<br>47.0<br>47.0<br>47.0<br>47.0<br>47.0<br>47.0<br>47.0 |
| PK HR EXIT PK HR TOTAL SUNDAY 2-WAY VOL PK HR ENTER PK HR EXIT PK HR TOTAL   | 0.00                                   | Ø. ØØ   | 0.00   | 8                                      | 0.0  |
|  | 0.43                                   | Ø. 77   | 0.20   | 5                                      | 58.4   |
|  | 1.08                                   | 7. 3Ø   | 0.20   | 18                                     | 42.6   |
|  | 0.00                                   | Ø. ØØ   | 0.00   | 8                                      | 0.0  |
|  | 0.00                                   | Ø. ØØ   | 0.00   | 8                                      | 9.0  |
|  | 0.16                                   | Ø. 37   | 0.00   | 5                                      | 58.4   |

NOTE: A ZERO RATE INDICATES NO RATE DATA AVAILABLE

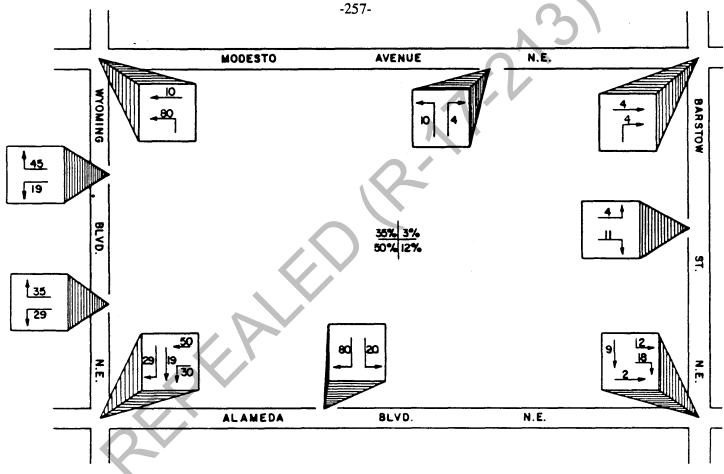
SOURCE: INSTITUTE OF TRANSPORTATION ENGINEERS
TRIF GENERATION, AN INFORMATIONAL REPORT
THIRD EDITION, 1983

CLARIFICATION OF MAXIMUM AND MINIMUM TRIP CALCULATION

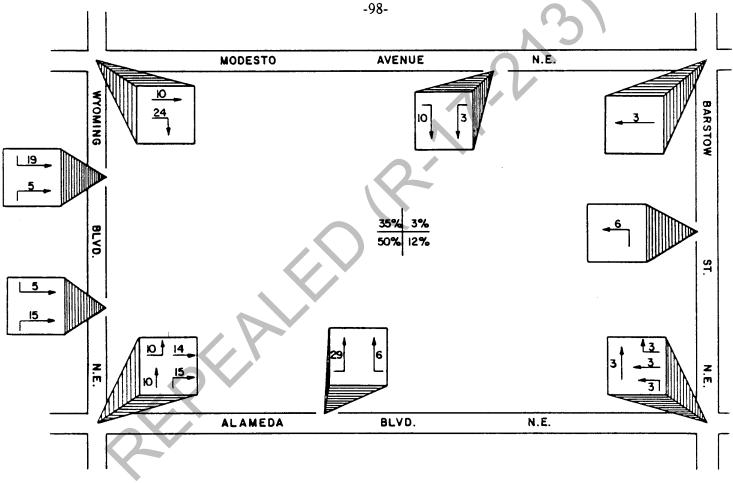
THE MAXIMUM AND MINIMUM TRIP CALCULATION IS PROVIDED ONLY TO INDICATE THE RANGE IN DATA. IT DOES NOT INDICATE THAT A PARTICULAR LAND USE WILL HAVE THAT RANGE IN TRIP GENERATION BECAUSE THE RANGE IN DATA IS NOT CONSISTENT WITH ALL SIZES OF THE LAND USE.

\*\*<del>\*</del>

WINDOW "D" (AMENDED)
A.M. PEAK HOUR TRIP DISTRIBUTION
7-9 A.M. EXIT
-257-



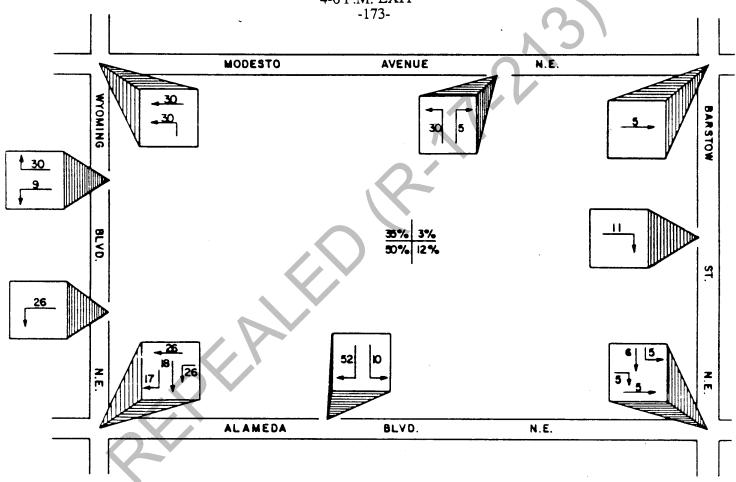
WINDOW "D" (AMENDED)
A.M. PEAK HOUR TRIP DISTRIBUTION
7-9 A.M. ENTER
-98-

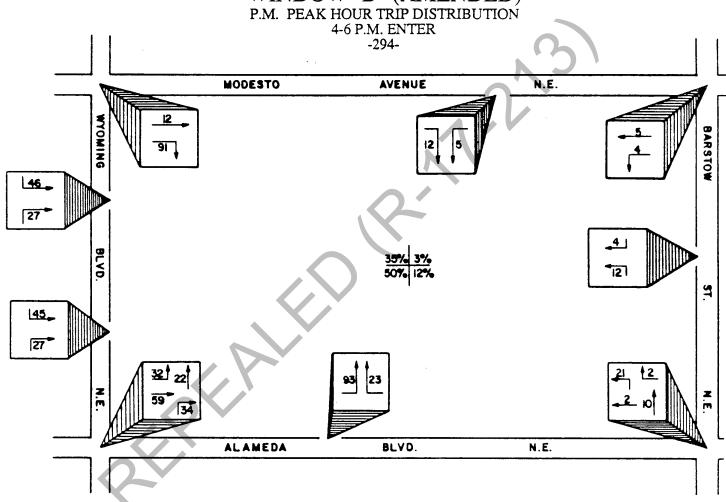


# NOR ESTE I SECTOR DEVELOPMENT PLAN

# WINDOW "D" (AMENDED)

P.M. PEAK HOUR TRIP DISTRIBUTION 4-6 P.M. EXIT -173-

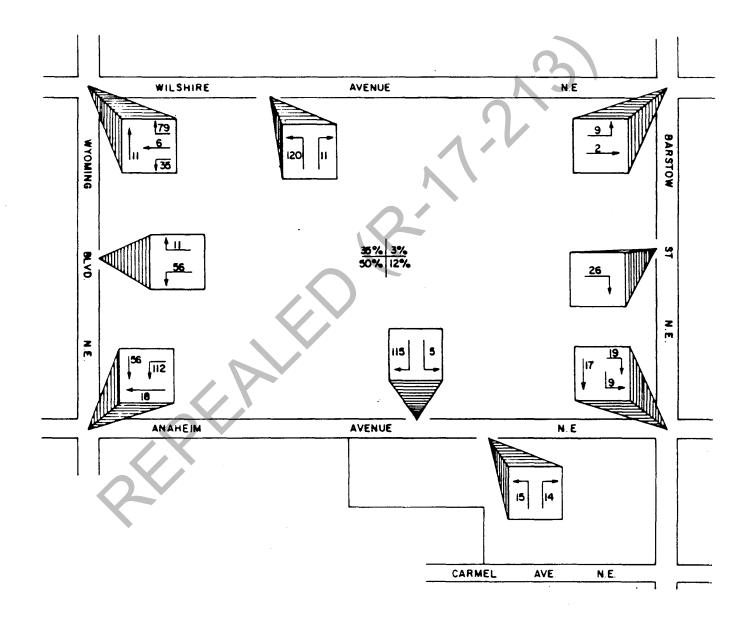




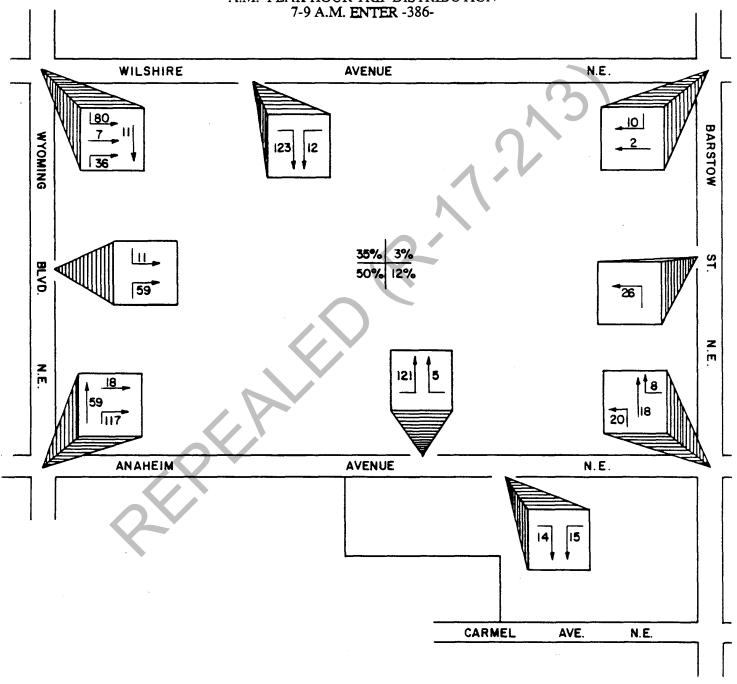
# NOR ESTE II SECTOR DEVELOPMENT PLAN

## "WINDOW F"

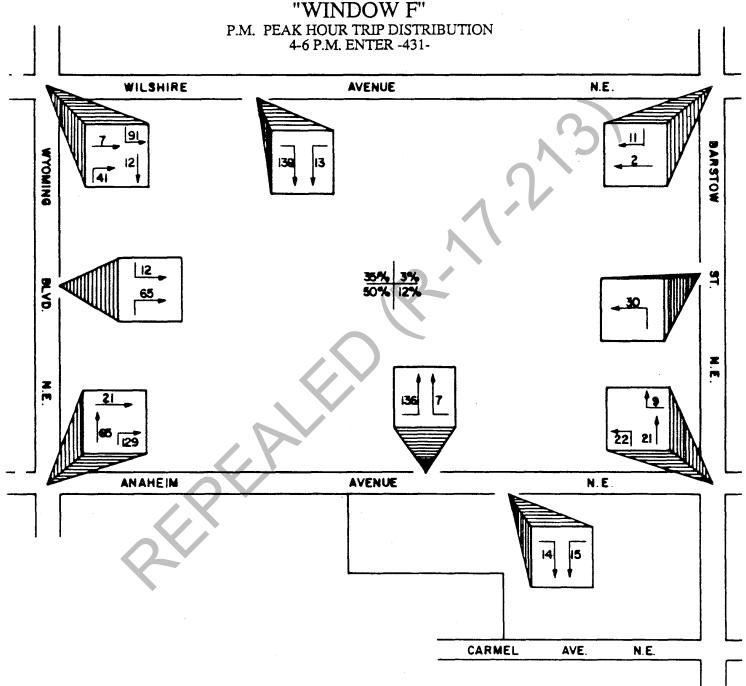
A.M. PEAK HOUR TRIP DISTRIBUTION 7-9 A.M. EXIT -373-



A.M. PEAK HOUR TRIP DISTRIBUTION 7-9 A.M. ENTER -386-

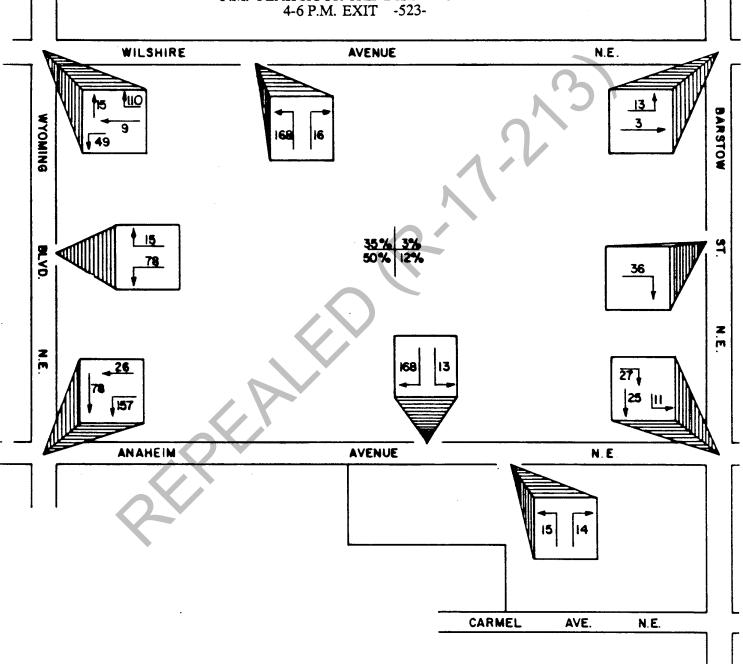


#### NOR ESTE II SECTOR DEVELOPMENT PLAN



### NOR ESTE II SECTO

P.M. PEAK HOUR TRIP DISTRIBUTION 4-6 P.M. EXIT -523-





# APPENDIX C STATEMENTS OF UTILITY AVAILABILITY



# City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

**MAYOR** KEN SCHULTZ CHIEF ADMINISTRATIVE OFFICER

DEPUTY CAO PUBLIC SERVICES

DEPUTY CAO PLANNING/DEVELOPMENT

**GENE ROMO** 

FRANK MARTINEZ

**BILL MUELLER** 

May 30, 1986

RECEIVED

ESPEY, HUSTON & ASSOC.

Mr. Paul Brasher, P.E. Espey-Huston and Associates, Inc. 4801 Indian School Road NE, Suite 204 Albuquerque, New Mexico 87110

RE: WATER AND SANITARY SEWER AVAILABILITY (C-19)

Dear Mr. Brasher:

This statement of availability is issued in response to your inquiry of April 20, 1986. All statements made herein are contingent upon the information provided in that inquiry, and upon our subsequent meeting on May 8, 1986. Please be advised first, that City policies require that the subject property be annexed prior to obtaining City water and sanitary sewer service; and second, that development of this property will be governed by the recently adopted La Cueva Land Use Guide.

Subject Property:

North Albuquerque Acres, Tract 2, Unit 3, Blocks

11, 12 & 13 (Presley Tract)

Proposed Development: Single Family Residential, Approximately 630 Lots

#### WATER SERVICE:

Service is available contingent upon completion of the following system improvements:

- A 10-inch extension within Wyoming Boulevard from the existing 10-inch line at Wilshire Avenue to Modesto Avenue.
- A 12-inch extension within Barstow Street from the existing 12-inch line at Wilshire Avenue to Modesto Avenue.
- A 10-inch line extension in Modesto Avenue (previously Alameda Avenue) between the 10-inch line in Wyoming Boulevard and the 12-inch line in Barstow Street.
- An 8-inch line extension in Alameda Avenue (previously Richfield Avenue) between the 10-inch line in Wyoming Boulevard and the 12-inch line in Barstow Street.
- Construction of 8-inch and 6-inch on site waterlines as necessary for service and fire protection to the subject development. As much as possible "dead end" line extensions should be avoided.

Mr. Paul Brasher, P.E. May 30, 1986 Page 2.

Please be advised that portions of the above-referenced 10-inch and 12-inch waterlines in Wyoming and Barstow as far north as Alameda Avenue, and the 8-inch line in Alameda Avenue, are planned for construction prior to occupancy of the new La Cueva High School.

Service connection must be coordinated through the Customer Services Office at 768-2840. Service will be subject to Utility Expansion Charges.

#### SANITARY SEWER SERVICE:

As you indicated in your letter of April 20, 1986, North Albuquerque Acres sanitary sewer drainage patterns need to be established to drain as much area as possible to the North Albuquerque Industrial Interceptor which currently terminates just east of I-25 at San Diego Avenue. Eventually, a portion of the subject property (approximately the north 1/2) will be required to drain north and west to this interceptor.

Given the current status of the North Albuquerque Industrial Interceptor extensions within North Albuquerque Acres, it will be acceptable to initially service the entire area of the subject property via extension of the 21-inch line in Wyoming Boulevard. The on-site sewer lines need to be planned and designed to drain as much of the site as possible (approximately the north 50 acres) to Modesto Avenue and then to the Wyoming Boulevard and Modesto Avenue intersection, where a future disconnection/reconnection will divert the flow from the Wyoming Boulevard sewer line to the above-referenced North Albuquerque Industrial Interceptor. Service, therefore, will be available contingent upon the following line extensions:

- 1. A line extension within Wyoming Boulevard from the existing 21-inch line at Alameda Avenue, extending north to Modesto Avenue. The size of this line should be the minimum allowed by existing grades and the arroyo crossing. Intermediate collector sewer connections to this section of the Wyoming Boulevard sewer should be avoided, if at all possible, since the intent is to abandon this section of line at a later date when the above-referenced diversion to the North Albuquerque Interceptor is accomplished.
- 2. A 15-inch interceptor line within Modesto Avenue from the 21-inch line in Wyoming Boulevard to Barstow Street. We have reviewed your analysis of design flows for the Modesto Avenue interceptor and agree that a 15-inch line is the correct size.
- 3. An 8-inch line within Alameda Avenue from the 21-inch line in Wyoming Boulevard to Barstow Street.
- 4. Construction of 8-inch on site collection sewers as necessary to service the subject development.

Mr. Paul Brasher May 30, 1986 Page 3.

Service connections must be coordinated through a licensed plumber. Installation must conform to the plumbing code as adopted, and to effective City connection requirements. Service will be subject to Utility Expansion Charges.

Design and construction of the required improvements is the developer's responsibility and must be coordinated through the Design Division of the Public Works Department. City participation in the construction of the master plan line extensions is a possibility, however this would require construction under a City contract. The City/Developer cost split would be determined by the line extension policies in effect at the time of construction. If you wish to pursue this option, please let us know.

This statement of availability will remain in effect for a period of one year and applies only to the proposed development identified herein. Its validity is in part contingent on the continuing accuracy of the information supplied by the developer. Changes in the proposed development may require re—evaluation of availability and should be brought to our attention as soon as possible. Any outstanding prorata and/or standby assessments must be paid at the time service is taken. All charges assessed and/or rates collected will be based on applicable ordinances and policies in effect at the time service is actually requested and authorized.

If you have any questions and/or comments please let me know.

Sincerely,

Jon E. Ertsgaard, P.E.

Utility Engineer

Utility Development Division

Public Works Department

766-7354

JEE:wa

Attachments: Water and Sanitary Sewer Maps

xc: Roy Robinson

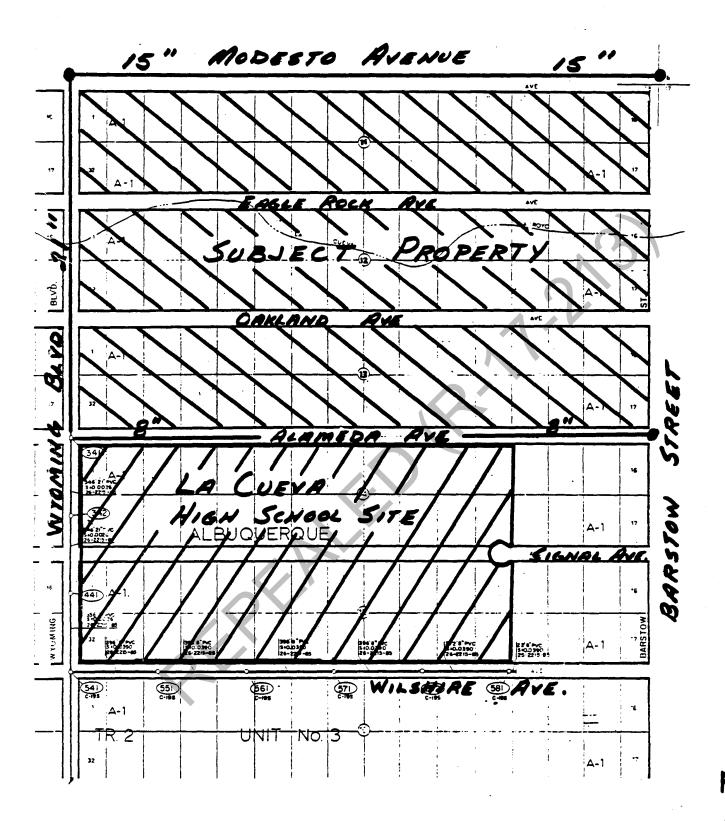
Walt Nickerson

Josie Gutierrez, Customer Services

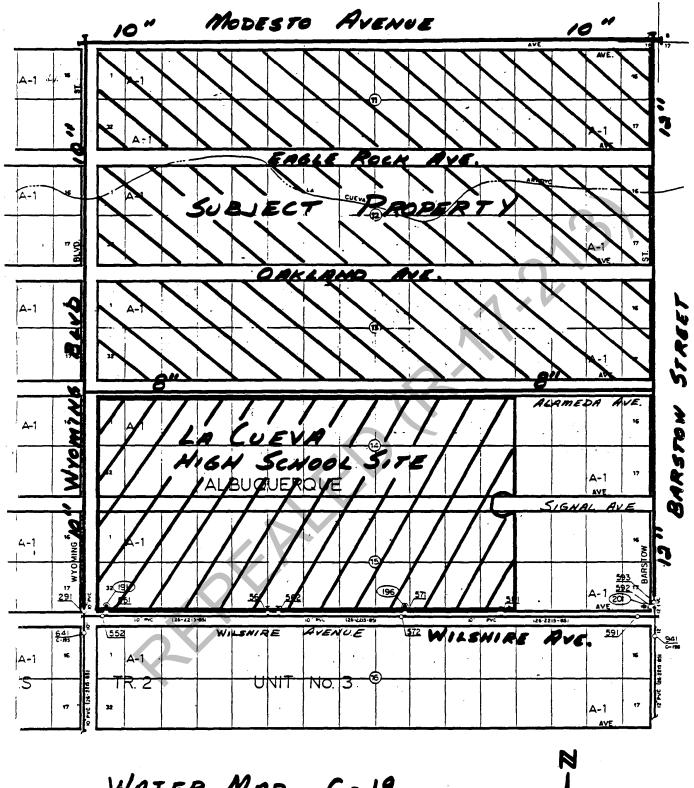
f/Availability (C-19) f/Readers (log #4/40)

f/North Albuquerque Acres, Tract 2, Unit 3, Blocks 11, 12, & 13

(Presley Tract) (C-19)



SANITARY SEWER MAP, C.19



WATER MAP C-19

#### PUBLIC SERVICE COMPANY OF NEW MEXICO

ALVARADO SQUARE

ALBUQUERQUE, NEW MEXICO 87158 \_ \_ \_ \_

September 25, 1986

RECEIVED

SEP 26 1986

ESPEY, HUSTON & ASSOC.

Mr. William F. Coleman, P.E. Espey Huston & Associates, Inc. 4801 Indian School Rd. N.E. Suite 204 Albuquerque, NM 87110

Dear Mr. Coleman:

Subject: North Albuquerque Acres

Thank you for contacting Public Service Company of New Mexico regarding electrical service to the proposed development.

The purpose of this letter is to answer your questions in the letter written September 23, 1986. PNM presently has 12470 volt three phase power in the area of this development. There is no Master Plan to build any new power lines in this area other than those necessary to provide service to new developments. PNM can provide an underground electrical distribution system to the residential subdivision at a cost of about \$1,000.00 per lot. This will be an up front cost to the developer. Under the present rules and regulations as approved by the Public Service Commission, PNM will refund the developer \$1,440.00 per lot for each dwelling that is built within 5 years of the initial deposit. This refund will not exceed the deposit paid by the developer. PNM construction will take about 6 to 8 weeks and can begin about 6 weeks after PNM receives a filed subdivision plat and an application for service. Also the contract deposit must be paid two weeks prior to the construction start date.

The City of Albuquerque requires a street light be installed at each intersection and at each cul-de-sac. The cost for each light is about \$1,100.00. This is a cost to the developer and is non-refundable.

As soon as you have a filed plat, please come to the PNM Service Center and fill our an application for service. At that time PNM will begin the design work.

Please call me at 761-3430 if I can be of further assistance.

John Myers

Senior Division Engineer

#### GAS COMPANY OF NEW MEXICO

September 30, 1986

RECEIVED

OCT 2 1986

ESPLY, HUSTON & ASSOC.

Espey, Huston & Associates, Inc. William F. Coleman, P.E. 4801 Indian School Road NE Suite 204 Albuquerque, New Mexico 87110

Re: North Albuquerque Acres NOR ESTE Sector Plan EH&A Job No. 8030

Dear Mr. Coleman:

This is in response to your letter of September 23, 1986 and to confirm our conversation on September 24, 1986 as to the availability of natural gas service to the referenced project.

The Gas Company of New Mexico has a 4" high pressure gas main in Wilshire Avenue which can be used to serve the area south of the La Cueva High School. The area north of the high school can be served by the existing 6" high pressure gas main at Wyoming Boulevard and Alameda Avenue NE.

Both this gas mains have the capacity to service this development.

There are no plans to provide natural gas service to this area at this time. The only way we will extend gas to the area is at the request of the developer.

After recorded plat and signed mainline extension agreement is received it will take approximately 12 to 14 weeks to start construction.

A request by letter for extension of service to the Gas Company of New Mexico, c/o Leo Apodaca and also a plat showing which lots by phase you wish to be served at this time will be required before a contract can be drawn up.

The cost to extend the distribution main is approximately \$7.50 per foot. The price of yardlines (property line to meter location) is \$3.75 per foot subject to change.

Any extension of your gas line will be in accordance with Public Service Commission Section 16.

If you have any questions, please call me at 889-2540.

Sincerely,

Leo Apodaca

Engineering Technician

Les aportera

Albuquerque, New Mexico September 29, 1986

#### **Mountain Bell**

RECEIVED

William F. Coleman, P.E.
Espey, Huston & Associates, Inc.
4801 Indian School Road N.E. - Suite 204
Albuquerque, New Mexico 87110

OCT 2 1986

ESPEY, HUSTUM & ASSOC.

RE: NOR ESTE SECTOR PLAN (Job #8030)

Dear Bill:

Currently there is minimal services available in the area in question. La Cueva High School has facilities, but there is nothing else in the area at the present time that requires services. There is no master plan at this time to place facilities in this area, however, once the NOR ESTE plans are finalized, Mountain Bell will work on providing facilities for whatever is required.

Mountain Bell requests a 60-90 day time frame after a pre-design meeting is held with the developer and other interested parties, to provide service. PNM is usually the coordinating utility that will call for pre-design and/or pre-construction meetings. Mountain Bell will try and utilize the PNM provided trench, but due to tariff, trench, backfill, etc., is provided by the developer.

The cost for trenching, barricading, dust control and any other applicable charges as a result of trenching for services are borne by the developer. These are usually the only costs associated with the project in regard to Mountain Bell.

If I can answer any other questions or be of further assistance, please call me at 765-8858 or George Barber at 765-8854.

Sincerely.

Cheri Guyer

Assistant Manager - DSDC P.O. Box 1355 - Station 53

Albuquerque, New Mexico 87103

)

cc: George Barber

# CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION/DESIGN HYDROLOGY SECTION

#### CONFERENCE RECAP

| CON EXEM   | / /  |
|--|--|
| DRAINAGE FILE/ZONE ATLAS PAGE NO.:   | DATE: 10/13/84   |
| PLANNING DIVISION NOS: EPC:  | DRB:   |
| SUBJECT: NON ESTE SECTOR DE  | suscoprist por (window"D")   |
| STREET ADDRESS (IF KNOWN):   |  |
| SUBDIVISION NAME:  |  |
| APPROVAL R   | REQUESTED:   |
| PRELIMINARY PLAT   | FINAL PLAT   |
| SITE DEVELOPMENT PLAN  | BUILDING PERMIT  |
| X OTHER  | ROUGH GRADING  |
| SECTOR PLOS  | $\Omega$ .   |
| WHO  | REPRESENTING   |
| ATTENDANCE: Deunis Lorenz  | Espay Huston   |
| FRED J. AGUIRRE  | City   |
|  |  |
| FINDINGS:  |  |
| •  |  |
| 1. An Approved conceptual amo  |  |
|  | son should mores: the following:   |
|  | PAR WYOMILY, MEANEON PARITOR   |
| + Modesto  | seems are and food a Corin   |
|  | PRATICAL ALIFNMENT FOR LA CUEVA  |
| with par.  | DI NYDRAULIC PROCEULOTIONS + Cross-santian   |
|  | Prop Property of Property of the Property of t |
|  | a seem the sear of point. Obtain   |
|  | Coordinate with the City's   |
| FLOUDPIN DOMINITATION  | = pon such revision.   |
| TOO STORE TO MILETY TO THE   | THE FOR JULY REDIJION  |
|  |  |
|  |  |
| The second secon |  |
|  |  |
|  | indings are summarized accumately and rinvestigation reveals that they are not   |
| reasonable or that they are based on in  |  |
| SIGNED: his Krosury  | SIGNED: / OV C.  |
| TITLE:   | TITLE:   |
| DATE: 10/13/86   | DATE: 10-13-86   |
| **NOTE ** DI FOSE PROVIDE A CORY OF THE  | S RECOR WITH THE DRAINAGE SUBMITTON C-10   |

#### CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION/DESIGN HYDROLOGY SECTION

#### CONFERENCE RECAP

| DRAINAGE FIL      | E/ZONE ATLAS PAGE NO.:                | C-19/D4 DATE                            | 10/22/86                  |
|-------------------|---------------------------------------|---|---------------------------|
| PLANNING DIV      | ISION NOS: EPC:                       | DRB                                     | DRB-86-444                |
| SUBJECT: La       | Cueva High School Land                | Sue Guide=Wind                          | ow F                      |
| STREET ADDRES     | SS (IF KNOWN):                        |   |                           |
| SUBDI/ISION       | NAME: North Albuquero                 | ue Acres                                |                           |
|                   | APPROVAL R                            | EQUESTED:                               |                           |
| PREL              | IMINARY PLAT                          |   | FINAL PLAT                |
| SITE              | DEVELOPMENT PLAN                      | *************************************** | BUILDING PERMIT           |
| X OTHE            |                                       |   | ROUGH GRADING             |
| Sector Plan       | Approval                              |   |                           |
|                   | WHD                                   | REI                                     | PRESENTING                |
| ATTENDANCE:       | Dennis Lorenz                         | Espey, Hu                               | ston                      |
|                   | Fred Aguirre                          | Hydrology                               | Section                   |
|                   |                                       | _                                       |                           |
| FINDINGS:         |                                       |   | 7                         |
| I) An annound C   | oncontual Emading & Dwa               | inago Dlan is m                         | equired for Sector Plan   |
|                   | jor elements to be addr               |   |                           |
|                   | s and method of handlin               |   |                           |
|                   |                                       |   | el treatment or setback   |
|                   |                                       |   | meandering of the arrovo. |
|                   |                                       |   | tigate erosion problems   |
| downstream.       | scharging runoit mico c               | HE ATTOYU CO MIT                        | Typice Prus full problems |
|                   | scharge and monding req               | uirements will !                        | pe based on downstream    |
| constraints.      |                                       | MILENELLES WILL                         | JE DOSEN DI HOMISTI ENN   |
|                   |                                       | red drainage im                         | provements for Wilshire.  |
| Barstow, and      |                                       | , ca di a ive ya i im                   |                           |
|                   | 0.W.'s required to impl               | ement developmen                        | nt scheme.                |
|                   |                                       |   |                           |
|                   |                                       |   |                           |
|                   |                                       |   |                           |
|                   | · · · · · · · · · · · · · · · · · · · |   |                           |
| The undersigned a | grees that the above fi               | ndinos are su                           | mmarized accurately and   |
| are only subjec   | t to change /)f further               | investigation                           | reveals that they are not |
| reasonable or tha | t they are based on ina               | accurate informa                        | tion.                     |
| SIGNED:           | mol / legum                           | SIGNED:                                 | 2000                      |
| TITLE:            | <del></del>                           | TITLE:                                  | L ENGE                    |
| DATE:             | 122/81                                | DATE: /                                 | 0-30-86<br>C-             |
|                   | PROVIDE A COPY OF THIS                | DAIE:                                   |                           |



## City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

MAYOR

CHIEF ADMINISTRATIVE OFFICER

DEPUTY CAO PUBLIC SERVICES DEPUTY CAO PLANNING/DEVELOPMENT

KEN SCHULTZ

GENE ROMO FRANK MARTINEZ

**BILL MUELLER** 

November 21, 1986

Paul Brasher, P.E. Espey-Nuston & Associates, Inc. J.S. Brown Mercantile Building 317 Commercial Street NE Albuquerque, NM 87102

Re: Water and Sanitary Sewer Availability (C-19)

Dear Mr. Brasher:

This statement of availability is issued in response to your inquiry regarding water and sanitary sewer service to the subject property. All statements made herein are contingent upon the information provided in that inquiry and upon the preliminary information submitted to the Development Review Board (DRB) for the Nor Este Sector Development Plan.

While this availability statement pertains only to the subject property identified below, please be advised that the water and sanitary sewer facilities identified by this letter will generally be available to also service the remaining area of the Nor Este Sector Development Plan south of Anaheim Boulevard (Block 18, Lots 8 through 21). Future development of this property will require an availability statement at such time that development details and fire protection requirements can be better defined. Additional system improvements may be required by that future availability statement. Please also be advised that City policy requires that the subject property be annexed prior to obtaining City water and sanitary sewer service.

Subject Property:

North Albuquerque Acres

Tract 2, Unit 3, Blocks 16 and 17

Proposed Development:

Single Family Residential

#### Water Service:

The subject property is located entirely within zone 4ER of the Alameda Trunk. Existing 4ER waterlines adjacent to the site include a 10 inch line within Wyoming Boulevard, a 12 inch line within Barstow Street, and a 10 inch line within Wilshire Avenue. As such, service will be available contingent upon completion of the following system improvements:

1) An 8 inch line extension within Anaheim Avenue connecting to the 10 inch line in Wyoming Boulevard and the 12 inch line in Barstow Street.

Water and Sanitary Sewer Availability (C-19) November 21, 1986 Page 2

2) Construction of 8 inch and 6 inch on site waterlines as necessary for service and fire protection to the subject development. As much as possible, dead end line extensions should be avoided.

Service connections must be coordinated through the Customer Services Office (768-2840). Service will be subject to Utility Expansion Charges.

#### Sanitary Sewer Service:

Existing sanitary sewerlines adjacent to the site include a 21 inch interceptor line within Wyoming Boulevard and an 8 inch collector line extension from this interceptor within Wilshire Avenue. The 8 inch line in Wilshire Avenue was constructed as far as the east boundary of the La Cueva High School site (approximately 2200 feet east of Wyoming Boulevard). Service to the subject property and development will be available contingent completion of the following line extensions:

- A continuing 8 inch line within Wilshire Avenue from the above referenced existing 8 inch line to Barstow Street.
- 2) An 8 inch line extension within Anaheim Avenue from the 21 inch interceptor in Wyoming Boulevard to Barstow Street.
- 3) Construction of 8 inch on site collection sewerlines as necessary to service the subject development

The lines within Wilshire Boulevard and Anaheim Avenue to Barstow Street will have to be planned and designed to accept future off-site flows from properties to the east of Barstow Street.

Service connections must be coordinated through a licensed plumber. Service installations must conform to the plumbing code as adopted and to effective City connection requirements. Service will be subject to Utility Expansion Charges.

Design and construction of the required water and sanitary sewer improvements is the developer's responsibility and must be coordinated through the Design Division of the Public Works Department.

This statement of availability will remain in effect for a period of one year and applies only to the proposed development identified herein. Its validity is in part contingent on the continuing accuracy of the information supplied by the developer. Changes in the proposed development may require re-evaluation of availability and should be brought to our attention as soon as possible. Any outstanding prorata/standby assessments must be paid at the time service is taken. All charges assessed/rates collected will be based on applicable ordinances and policies in effect at the time service is actually requested and authorized.

Water and Sanitary Sewer Availability (C-19) November 21, 1986 Page 3

If you have any questions/comments, please let me know.

Sincerely,

Jon E. Ertsgaard, P.E.

Systems Engineer

Utility Development Division

Public Works Department

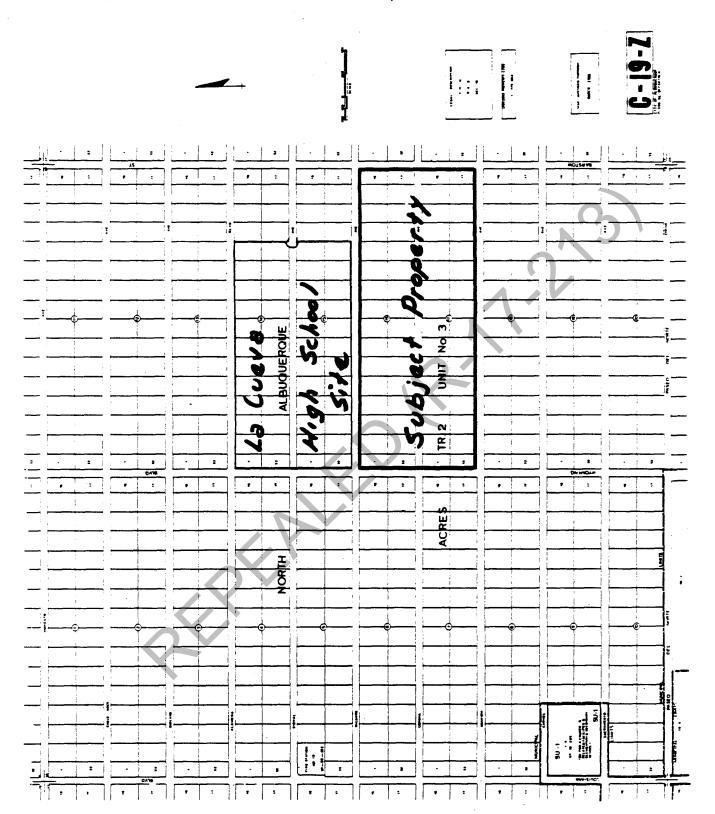
766-7354

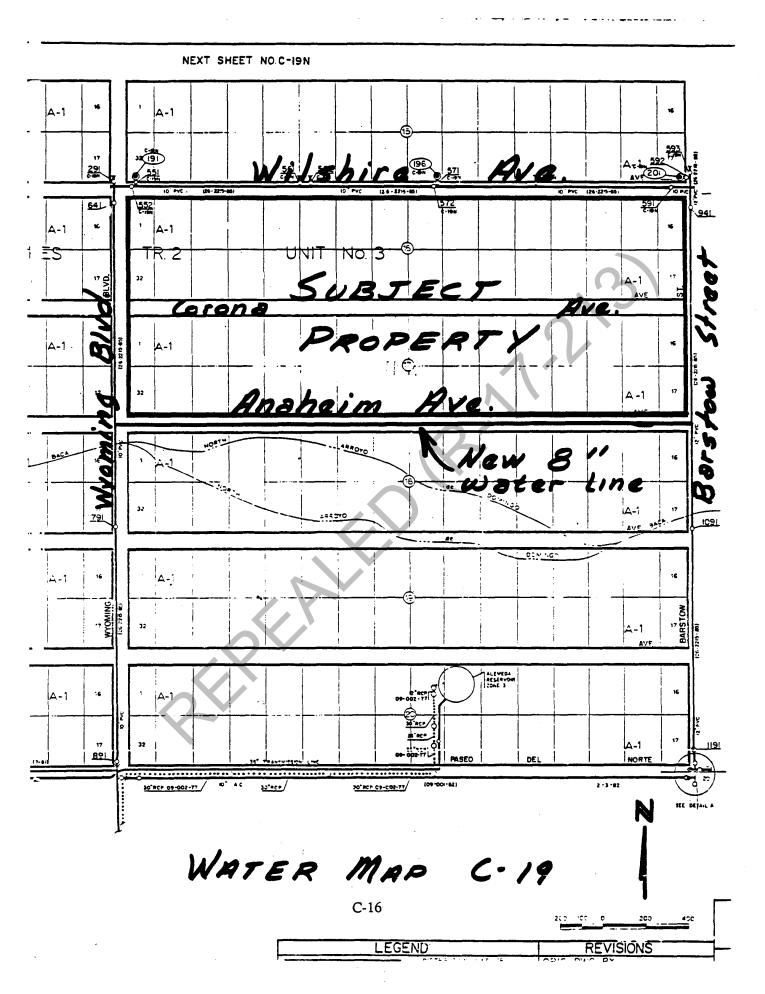
JEE:ds

Attachments: Water and Sanitary Sewer Maps

xc: Walt Nickerson, City Engineer, Engineering Group
Roy Robinson, Principal Engineer, Planning Group
Josie Gutierrez, Administrative Aide II, Customer Services Division
f/Availability (C-19)
f/Readers (86-9-28)
f/North Albuquerque Acres, Tract 2, Unit 3, Blocks 16 and 17 (C-19)

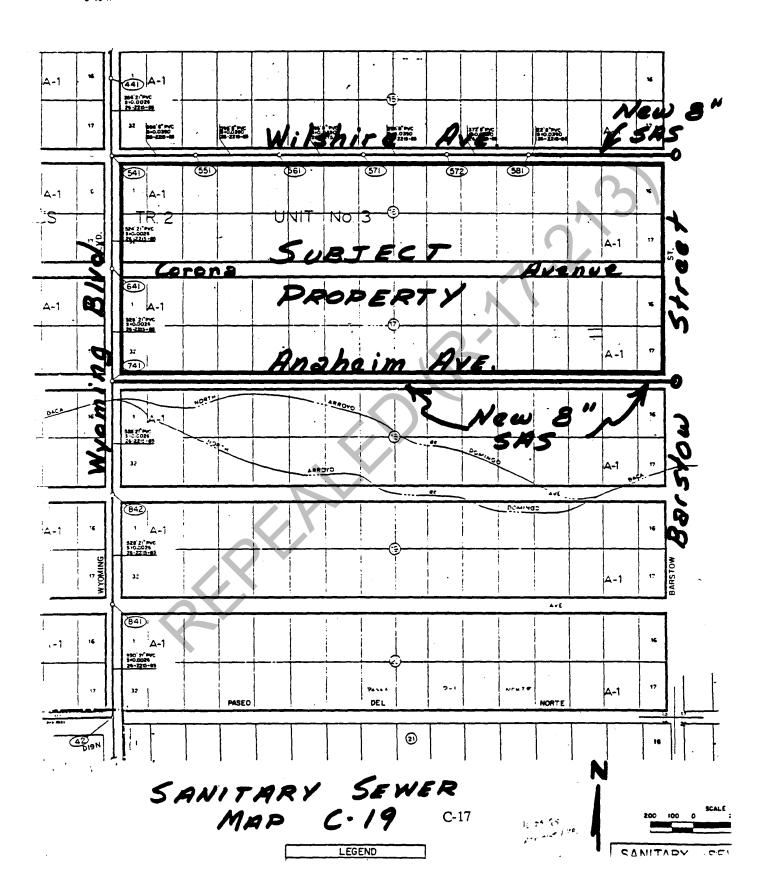
Doc. 1239F, Arc. 0109F





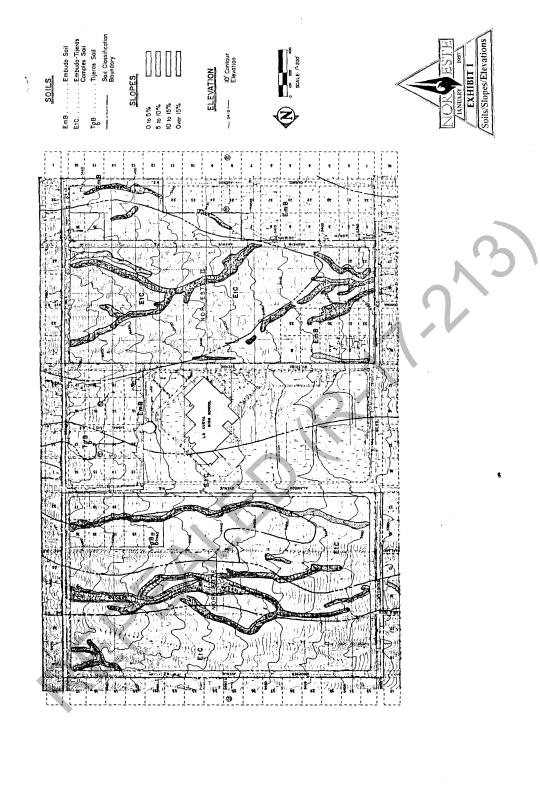
THE STATE OF THE S

C-19 N

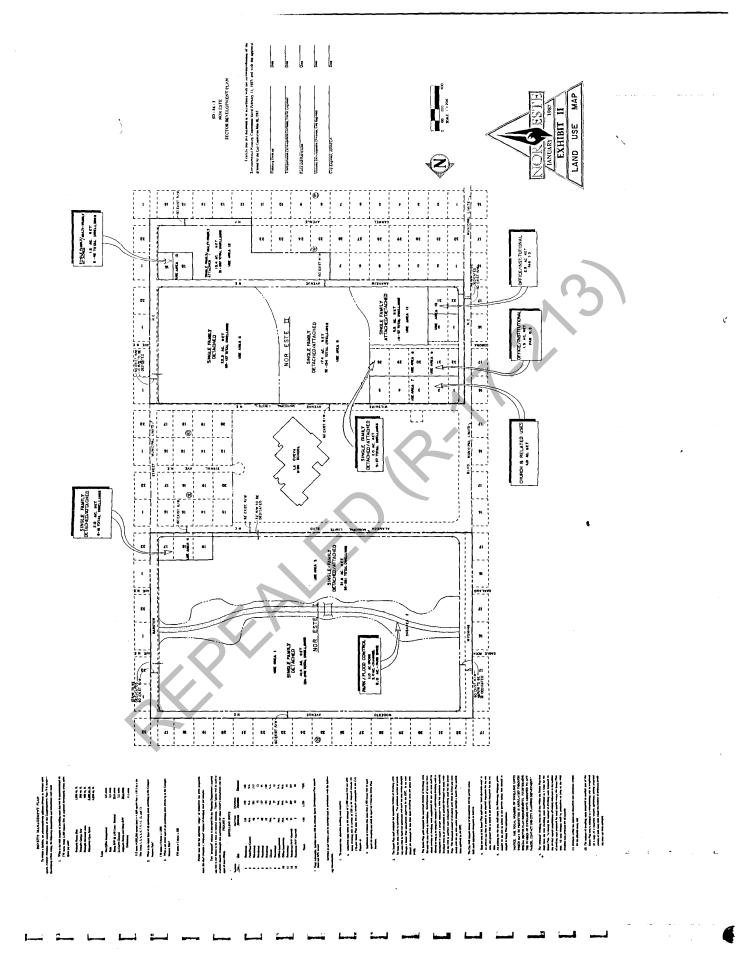


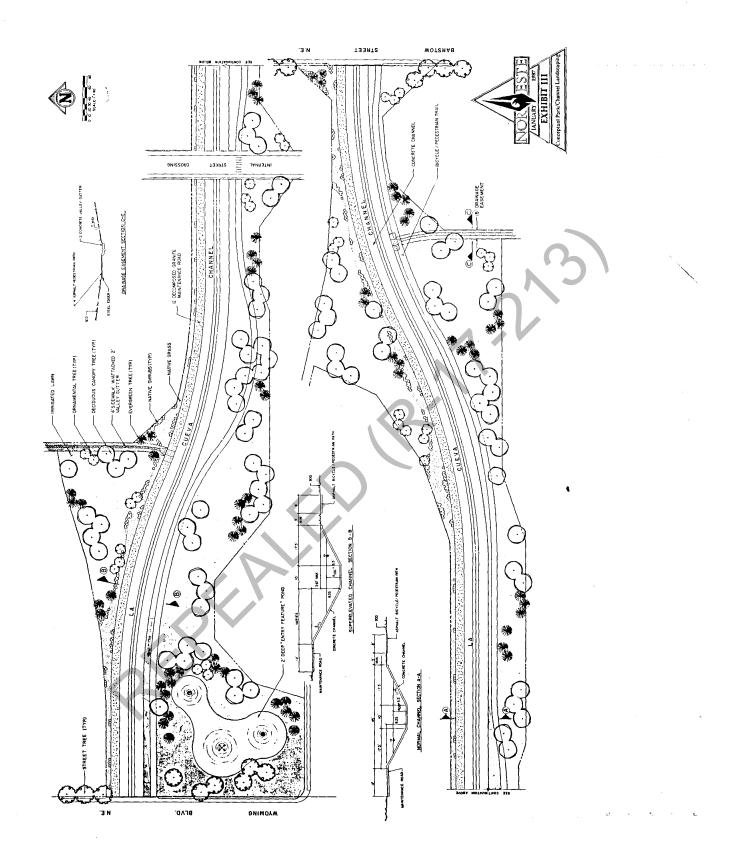


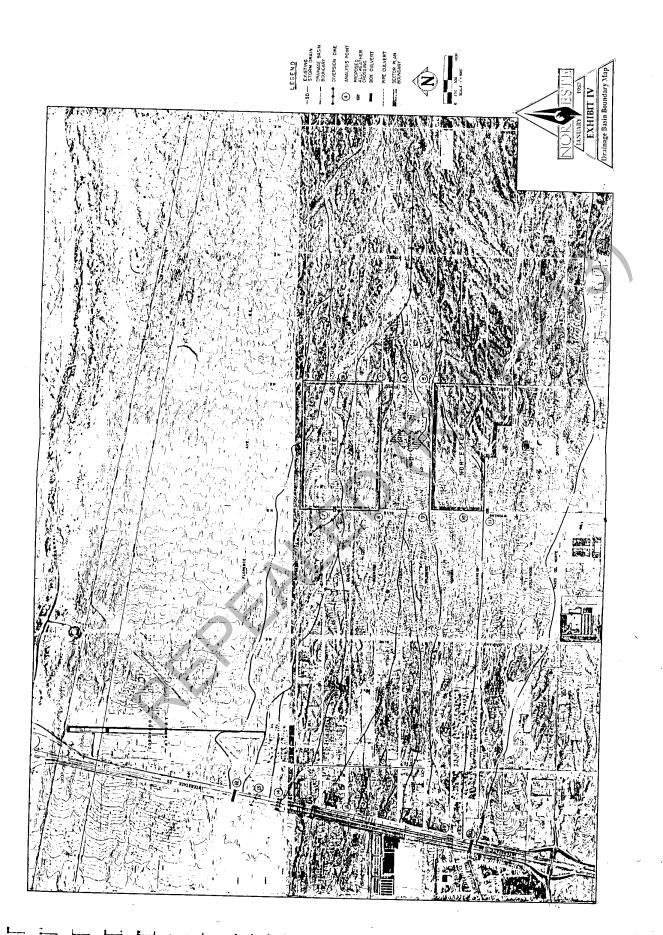
EXHIBITS

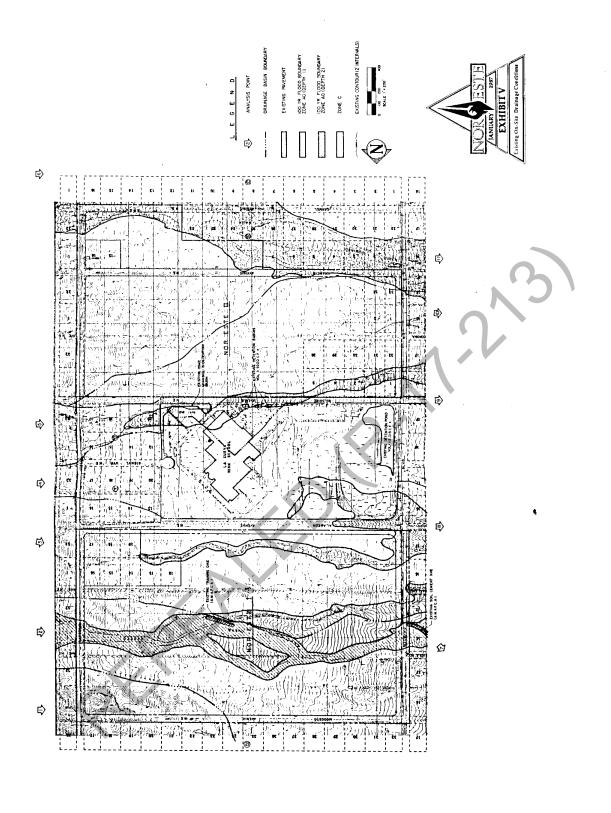


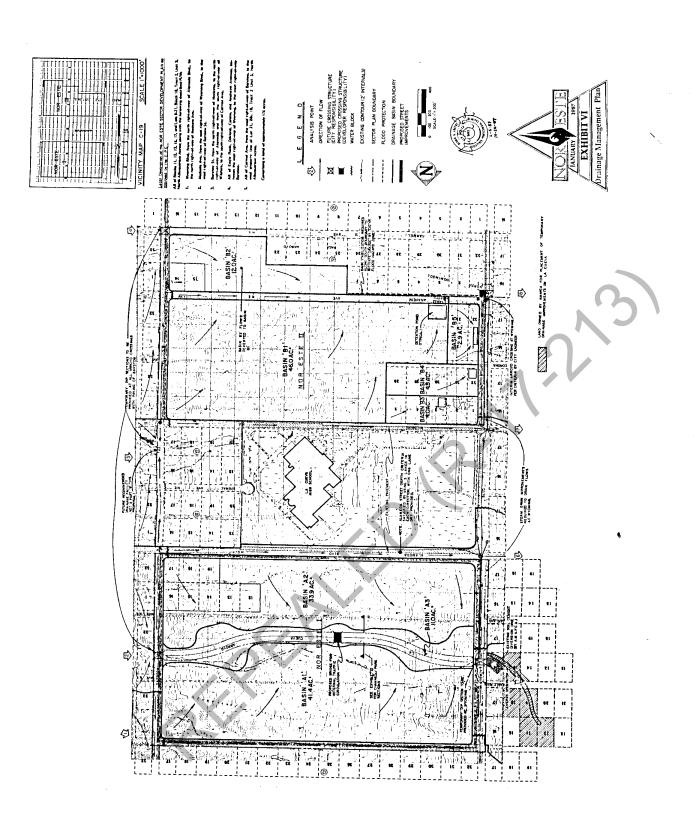
.: 5\_











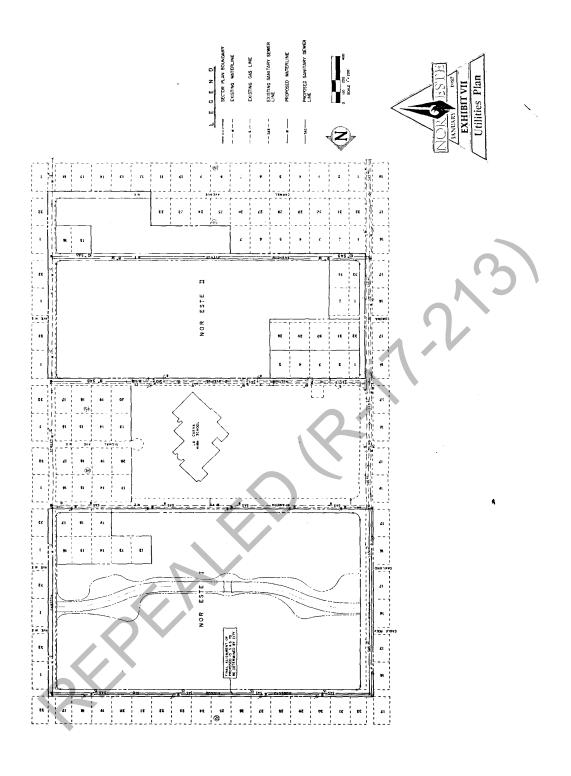


EXHIBIT VIII
ZONE MAP

|      |         |    |   |   |                                    |      |    |    |     |  |       |    |    |     |    |    |          |    |    |       |          | _      |
|------|---------|----|---|---|------------------------------------|------|----|----|-----|--|-------|----|----|-----|----|----|----------|----|----|-------|----------|--------|
|      | E .     | 32 |   | -   | 8:                                 | 6    | 50 | -2 | 25  | 23   | 24    | 52 | 56 | 27  | 28 | 53 | 30       | 31 | 32 | 2:    | 18       |        |
| 964; | ~       | -  |   | 9   | 5                                  | 3    | 2  | 2  | = . | 0.1  | 6     | 6  | ^  | م   | 'n | 4  | m        | ~  | _  | 91    | 15       |        |
|      | <u></u> | 32 |   |   |                                    |      |    |    | 22  | 23   | 24    | 25 | 26 | 27  | 28 | 59 | 30       | Ē  | 32 | 17    | 18       |        |
|      | 2       | -  |   | LOTS IS B. K.   | ALBUQUERQUE<br>ACRES<br>ZONED RO-1 | <br> |    |    | L   |  |       |    | ,  | 9   | 'n | 4  | m        | 2  | -  | 91    | 15       |        |
|      |         | 32 |   |   |                                    |      |    |    |     | LOCK 17;<br>1: BLCCK 18,<br>ACRES  |       | ļ  |    |     |    |    |          |    |    |       | 8        |        |
|      | ~       | -  |   |   |                                    |      |    |    |     | LOTS 1-27, BLOCK IS, BLOCK IT;<br>AND LOTS 9-14, IT-21; BLOCK IS,<br>NORTH ALBUQUEROUE ACRES | Q-R   |    |    |     |    |    |          |    |    | 91    | 15       |        |
|      | - F     | E  |   |   |                                    |      |    |    |     | AND LOTS NORTH AL  | ZONED |    |    |     |    |    |          |    |    | 11    | <u></u>  | NOTE   |
|      | 2       | -  |   | Resident No. 2  |                                    |      |    |    |     |  |       |    |    |     |    |    |          | -  | 16 | 15    |          |        |
|      | l in    | 32 |   |   | <u>e</u>                           | 6    | 20 |    |     |  |       |    |    |     |    |    |          |    | 7  |       | <u>®</u> | )<br>] |
|      | 2       | -  | - | 9   | 1.5                                |      | 2  |    |     | NOT A PART OF THIS SECTOR<br>DEVELOPMENT PLAN  |       |    |    |     |    | 1  | /        | X  |    | 11 91 | 15       |        |
|      |         |    |   | _1  |                                    |      |    | þ  |     | A PART OF 1  |       |    | /  | , ( |    |    |          |    |    |       |          | ]<br>] |
|      | ñ       | 32 |   |   | 18                                 | 6    | 20 |    |     | NOT /  | DEVE  |    |    |     |    |    |          |    |    | =     | - E      |        |
| 3    | ~       |    |   |   |                                    |      |    |    |     |  |       |    |    |     |    |    | 92       | 5: | ]  |       |          |        |
| ,    |         | 32 |   |   |                                    |      |    |    |     | 7  |       |    |    |     |    |    |          |    |    | 12    | <u></u>  |        |
|      | ~       | -  |   | K C S |                                    |      |    |    |     |  |       |    |    |     |    |    |          | 19 | 52 |       |          |        |
|      | ñ       | 32 |   | BLOCK II: BLOCK IZ, BLOCK IA<br>WATH ALBUOURROLE ACRES<br>ZONED R-D   |                                    |      |    |    |     |  |       |    |    |     |    |    |          | 80 |    |       |          |        |
|      | ~       | -  |   |   |                                    |      |    |    |     |  |       |    |    |     |    |    | 16       | 5  |    |       |          |        |
|      | Ē       | 32 |   | 三   |                                    |      |    |    |     |  |       |    |    |     |    | 12 | 82       |    |    |       |          |        |
|      | 2       | -  |   |   |                                    |      |    |    |     |  |       |    |    |     |    |    | 9        | 15 |    |       |          |        |
|      | Ē       | 25 |   | =   | <u>e</u>                           | 61   | 50 | 21 | 22  | 23   | 24    | 25 | 26 | 27  | 28 | 59 | ge<br>Ge | ñ  | 32 | =     | 8-       |        |
|      | 2       | -  |   | و   | 15                                 | :    | 13 | 12 | Ξ   | 10   | 6     | æ  | ~  | ص   | ın | -  | n        | ~  | -  | 91    | 15       |        |
|      |         |    | _ |   |                                    |      |    |    |     |  |       |    |    |     |    |    |          |    |    |       |          |        |

NOTE:
NOTE:
FOR MORE SPECIFIC USE DESIGNATIONS.
SEE EXHIBIT II , MOR ESTE SECTOR DEVELOPMENT PLAN