HYDROLOGY E17/D1T MILLER-WILSON OFFICE

E17/D50

MILLER-WILSON

OFFICE

1 PLAN

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

HYDROLOGY SECTION PROJ. NO._____ DATE: 11/10/83

PLANNING DIVISION NO._____

CONFERENCE RECAP

SUBJECT: Lot 10 Blk A Academy Parkway NE (E17)

| WHO | REPRESENTING |
|---|---|
| ATTENDANCE: Mike Dixon | |
| Thornton Schwark | |
| Billy Goolsby | |

FINDINGS: ① Drainage Plan required per DPM

② Free discharge allowed, however site restrictions call for ponding with pumping to ~~for~~ Academy Parkway or Arroyo del Oso inlet.

③ Appropriate "Construction Within Public R/W" document required if discharged to street.

④ Summary plat showing mutual easement if ponding on existing waterline easement.

⑤ Indicate the phased construction.

The undersigned agrees that the above findings are summarized accurately and are only subject to change if further investigation reveals that they are not reasonable or that they are based on inaccurate information.

SIGNED: Billy G. Goolsby SIGNED: [illegible]

TITLE: Civil Engineer/Hydrology TITLE: ARCHITECT (SMPC)

DATE: 11/10/83 DATE: 11/10/83

**City of Albuquerque**
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

**DESIGN HYDROLOGY SECTION**
**123 Central NW, Albuquerque, NM 87102**
**(505) 766-7644**

May 18, 1984

Mr. Thornton Schwenk
Boyle Engineering Corp.
3939 San Pedro NE, Suite D
Albuquerque, NM 87110

REF: GRADING AND DRAINAGE PLAN FOR MILLER-WILSON OFFICE WAREHOUSE
(E17-D50) RECEIVED APRIL 27, 1984

Dear Thornton:

The above referenced plan, dated April 26, 1984 is approved.

Please attach a copy of this approved plan, along with the appropriately approved "Drainage Facilities Within Public R/W" document, to the construction set prior to release of the building permit.

Also, an erosion control plan for the period of construction should be included in the plan set.

If I can be of further assistance, please contact me.

Sincerely yours,

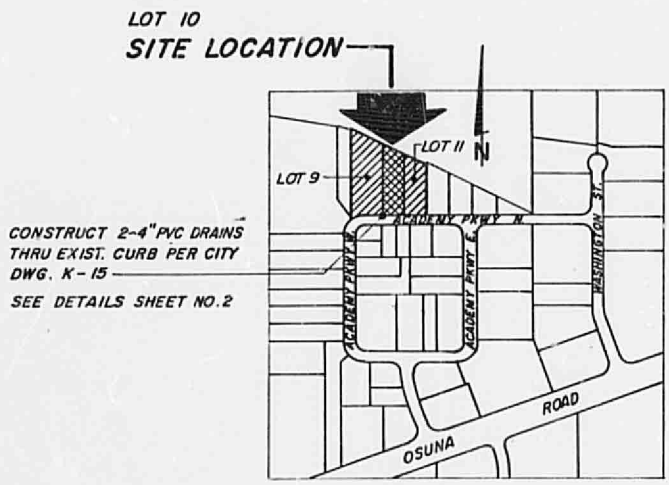
Billy J. Goolsby

Billy J. Goolsby, PE
City/County Flood Plain Admin.

BJG:mrk

cc: Greg Olson

# DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY




Jerry Lucero

## VICINITY MAP E-17-Z

**LEGAL DESCRIPTION:**

LOT 10, BLK A, UNIT I
INTERSTATE INDUSTRIAL PARK
FILED 7-27-78, B15-43

E17-D50

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO No. 4739 THORNTON D. SCHWERK

4-24-84

△1 REV 9-24-84 9/25/84

**NOTICE TO CONTRACTOR**

1. An excavation/construction permit will be required before beginning any work within City right-of-way. An approved copy of these plans must be submitted at the time of application for this permit.

2. All work detailed on these plans to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with Public Works Contract No. 84-2.

3. Two working days prior to any excavation, contractor must contact Line Locating Service, 765-1234, for location of existing utilities.

4. Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.

5. Backfill compaction shall be according to Arterial street use.

**ELEVATION DATA:**

ACS BM. 11-D17 A 40-PENNY NAIL IN THE NORTH POLE OF PYLON # R.E. 7 LOCATED ALONG AN ELEC. TRANSMISSION LINE, 0.75 mi WEST OF I-25 AND 200 ft. NORTH OF THE PROJECTED ℄ OF SAN ANTONIO Dr.
ELEV. = 5098.591'

D-69

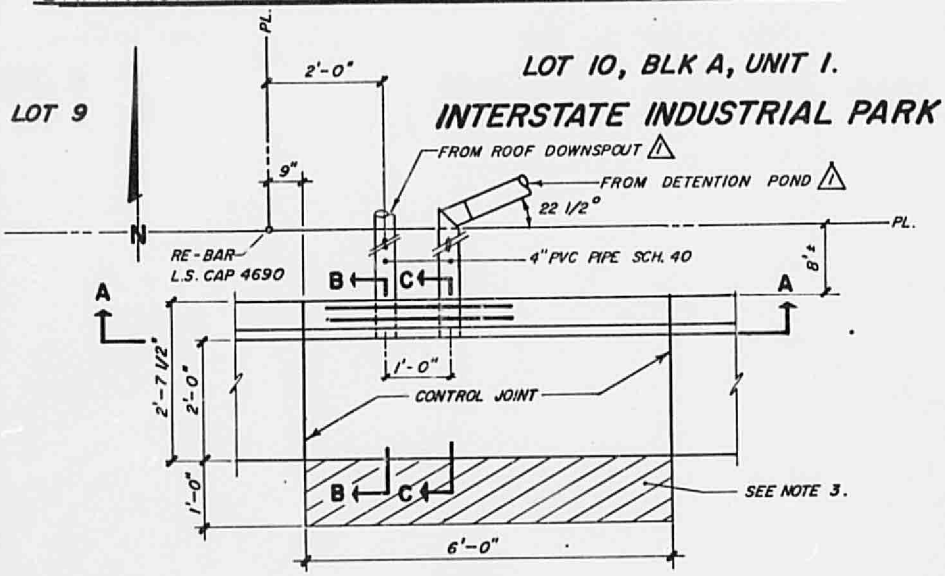
Chavez Con

# CITY OF ALBUQUERQUE

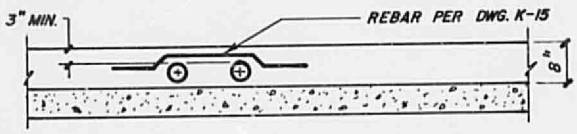
| APPROVALS | ENGINEER | DATE | TITLE DRAIN LINES THRU CURB LOT 10, BLK A, UNIT I. (3807 ACADEMY PARKWAY NORTH) | |
|---|---|---|---|---|
| A.C.E. / DESIGN | HRO Ken | 5-8-84 | | |
| INSPECTOR | Jerry [illegible] | 11/30/84 | PERMIT NO. 16913 | MAP |
| A.C.E. / FIELD | Charlie [illegible] | 12/5/84 | SHEET NO. 1 OF 2. | NO. E-17-Z |

B.E.C. NO. 501-239-00

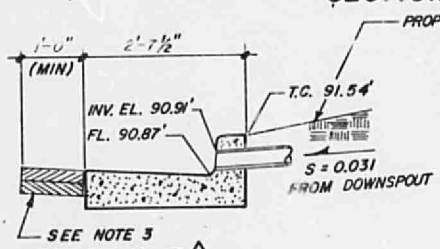
# DRAINAGE FACILITIES WITHIN CITY RIGHT OF WAY



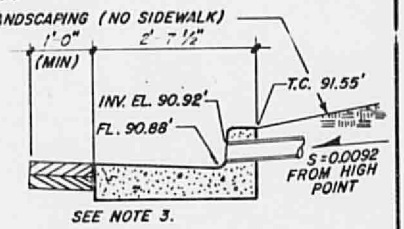

PLAN




SECTION A-A




SECTION B-B 1
(PIPE FROM ROOF DOWNSPOUT)




SECTION C-C 1
(PIPE FROM DETENTION POND)

REF. ACS BM 11-D17
ELEV. = 5098.591
SITE BM MH RIM
SE COR. LOT 10
ELEV. = 5093.05

FOR CONSTRUCTION NOTES, SEE CITY DWG. K-15.

REGISTERED PROFESSIONAL ENGINEER
No. 4739
NEW MEXICO
THORNTON D. SCHWENK

4-24-84

GENERAL NOTES:

1. WHEN PLACING DRAIN THROUGH EXISTING CURB, REMOVE AND REPLACE ENTIRE STONE OF CURB AND GUTTER.
2. THE CITY DOES NOT ACCEPT RESPONSIBILITY FOR MAINTENANCE FOR ANY DRAIN LINES INSTALLED BY OR FOR PRIVATE PROPERTY OWNERS.
3. REMOVE AND REPLACE 12" MIN. OF A.C. PAVEMENT ADJACENT TO CURB AND GUTTER STONE THAT IS BEING REPLACED.

9/25/84
1 REV. 9-24-84

D-69

## CITY OF ALBUQUERQUE

| APPROVALS | ENGINEER | DATE | TITLE DRAIN LINES THRU CURB 3807 ACADEMY PARKWAY NORTH |
|---|---|---|---|
| A.C.E. / DESIGN | | 5-8-84 | |
| INSPECTOR | | 11/20/84 | PERMIT NO. / MAP |
| A.C.E. / FIELD | | 12/5/84 | SHEET NO. 2 OF 2 / NO. E-17-Z |

B.E.C. NO. 501-239-00

Boyle
Engineering
Corporation
consulting engineers
Suite D
3939 San Pedro N.E.
Albuquerque, New Mexico 87110
505/883 7700

# DRAINAGE PLAN

for the

# MILLER-WILSON OFFICE/WAREHOUSE

Lot 10, Block A, Unit 1
Interstate Industrial Park
3807 Academy Parkway North, N.E.

Albuquerque, New Mexico

E-17-Z

APR 27 1984
HYDROLOGY SECTION

April 26, 1984

**Boyle Engineering Corporation**

Suite D
3939 San Pedro N.E.
Albuquerque, New Mexico 87110

consulting engineers

505 / 883-7700

City of Albuquerque
P. O. Box 1293
Albuquerque, New Mexico 87103

April 26, 1984
AL-S01-239-00

ATTN: Mr. Fred J. Aguirre, Civil Engineer/Hydrology

RE: DRAINAGE PLAN FOR MILLER-WILSON OFFICE/WAREHOUSE
3807 ACADEMY PARKWAY NORTH, N.E.
LOT 10, BLOCK A, UNIT 1, INTERSTATE INDUSTRIAL PARK, E-17-Z

Dear Fred:

Transmitted herewith is one copy of the subject drainage report.

The Special Order No. 19 sheets 1 and 2 of 2 are bound in the report and are being reviewed for approval by Greg Olsen, Assistant City Engineer/Design.

Please call if you have any questions regarding this report.

Sincerely,

BOYLE ENGINEERING CORPORATION

Thornton D. Schwenk

Thornton D. Schwenk, P.E.
Senior Civil Engineer

cc: Bob Campbell; Stevens, Mallory, Pearl & Campbell
Ed Miller, Miller Metal
Dan McDonald, Dura Bilt Products, Inc.

APR 27 1984
RECEIVED
HYDROLOGY SECTION

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IV. EXISTING DRAINAGE CONDITIONS

V. PROPOSED DRAINAGE CONDITIONS

VI. FINDINGS AND CONCLUSIONS

VII. RECOMMENDATIONS

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APR 27 1984
HYDROLOGY SECTION

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INFORMATION SHEET

PROJECT TITLE Miller-Wilson Building TYPE OF SUBMITTAL Drainage Plan

ZONE ATLAS PAGE NO. E17 CITY ADDRESS 3807 Academy Parkway North, N.E.

LEGAL DESCRIPTION Lot 10, Block A, Unit 1, Interstate Industrial Park

ENGINEERING FIRM Boyle Engineering Corp CONTACT Thornton D. Schwenk

ADDRESS 3939 San Pedro, N.E. Suite D PHONE (505) 883-7700

OWNER Miller-Wilson CONTACT Ed Miller

ADDRESS 4538 McLeod, N.E. PHONE 881-0220

ARCHITECT Stevens Mallory Pearl & Campbell CONTACT Bob Mallory

ADDRESS 115 Amherst PHONE 255-8668

SURVEYOR Elder Co. CONTACT Ross Elder, LS 4690

ADDRESS 530 Jefferson, N.E. PHONE 268-1830

CONTRACTOR N.A. CONTACT

ADDRESS PHONE

PRE-DESIGN MEETING:

X YES 11-10-83 (Goolsby)
___ NO
X COPY OF CONFERENCE RECAP SHEET PROVIDED

PLEASE CHECK TYPE OF APPROVAL EXPECTED WITH THIS SUBMITTAL:

___ SKETCH PLAT APPROVAL
___ PRELIMINARY PLAT APPROVAL
___ SITE DEVELOPMENT PLAN APPROVAL
___ FINAL PLAT APPROVAL
X BUILDING PERMIT APPROVAL
___ CERTIFICATE OF OCCUPANCY APPROVAL
___ ROUGH GRADING PERMIT APPROVAL
___ GRADING/PAVING PERMIT APPROVAL
___ OTHER _____ (SPECIFY)

DATE SUBMITTED: March 23, 1984 BY: Thornton D. Schwenk

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

HYDROLOGY SECTION PROJ. NO. _____ DATE: _____

PLANNING DIVISION NO. _____

CONFERENCE RECAP

SUBJECT: Lot 10 Blk A Academy Parkway NE (E17)

| WHO | REPRESENTING |
|---|---|
| ATTENDANCE: Mike Dixon | |
| Thornton Schwank | |
| Billy Goolsby | |

FINDINGS: ① Drainage Plan required per DPM

② Free discharge allowed, however site restrictions call for ponding with pumping to ~~for~~ Academy Parkway or Arroyo del Pino inlet.

③ Appropriate "Construction Within Public R/W" document required if discharged to street.

④ Summary plat showing mutual easement if ponding on existing waterline easement.

⑤ Indicate the phased construction.

The undersigned agrees that the above findings are summarized accurately and are only subject to change if further investigation reveals that they are not reasonable or that they are based on inaccurate information.

SIGNED: Billy J. Goolsby SIGNED: [illegible]

TITLE: Civil Engineer/Hydrology TITLE: ARCHITECT (SMPC)

DATE: 11/10/83 DATE: 11/10/83

DRAINAGE PLAN

FOR THE

MILLER-WILSON OFFICE BUILDING/WAREHOUSE

OCCUPYING

LOT 10, BLOCK A, UNIT 1, INTERSTATE INDUSTRIAL PARK

3807 ACADEMY PARKWAY NORTH

ALBUQUERQUE, NEW MEXICO

## I. PURPOSE:

The purpose of this report is to present information, calculations, and recommendations relative to storm runoff for the site of a 5000 sq. ft. combined office building and warehouse located at 3807 Academy Parkway North. The site will also be used for construction equipment storage.

## II. SCOPE:

This report is limited to an investigation of the existing and proposed conditions which affect storm flows on the study site. The proposed development is to be protected from flooding due to storm runoff, without increasing the threat of damage to downstream properties. Upstream areas which have been constructed since 1972 are presumed to meet the restrictions of applicable drainage ordinances and resolutions, beginning with AMAFCA Resolution 1972-2. Estimation of maximum runoff is based on the site being developed as proposed.

## III. LOCATION:

The study site is a 1.041-acre (45,346 sq. ft.) parcel located within a new industrial park area, two blocks north of Osuna Road and one mile west of Interstate 25. Legally the parcel is defined as Lot 10, Block A, Unit 1, of the Interstate Industrial Park as shown on the Land Division Map, recorded on July 27, 1978, in Volume B15, Folio 43 of the records of the County Clerk of Bernalillo County. The site is zoned M-1, Light Manufacturing Zone.

The south edge of the property is bounded by Academy Parkway North, a paved City street, having a 60-ft right-of-way and full curb and gutter. The lot to the east and uphill (Lot 11) has been divided by the owner into two portions. The south portion is occupied by two new light industrial buildings for a manned-balloon enterprise. The north portion is the site of a detention pond, which doubles as a storage yard for contractor's mechanized equipment. The lot on the west and downhill (Lot 9) is partially developed with a building and parking lot for a precision machine shop. The north property line of the study site adjoins the AMAFCA right-of-way for the South Pino Arroyo Inlet.

## IV. EXISTING DRAINAGE CONDITIONS:

A. Topography and Soils

Slopes on the site are generally from southeast to northwest. The high point at the south east property corner is at elevation 5093 and the low point at the northwest corner is 5086. The distance between these points is 414 feet, giving an average slope of 1.69%.

The natural soils at the site are described in the SCS Soil Survey of Bernalillo County as "EmB - Embudo: gravelly, fine sandy loam". The Hydrologic Soil Group is "B".

B. On-Site and Off-Site Drainage Conditions

The undeveloped site is sparcely vegetated with native grasses. As shown on the DPM Plate 22.2 C-1, this condition results in a rational formula C-factor of 0.34 for 0% impervious.

The natural runoff pattern of east-to-west at the rear of the lots adjoining the AMAFCA right-of-way was altered by the development of Lots 11 and 12 to the east. Lot 11 was regraded into two basins, one draining south to the street and the other draining north to a new detention pond. The berm for this pond is graded toward the property line of Lot 10 in such a way that runoff from a 10-ft. wide strip of land from Lot 11 will continue to flow into Lot 10. This additional flow into Lot 10 is accounted for in the drainage calculations shown in the Appendix.

Runoff from the south face of the Pino dike flows onto the study site, but turns west and immediately exits the site. Runoff from the downhill property to the west (Lot 9) cannot enter the study site. Runoff along the south property line is presently contained in the street.

There are no natural or artificial water courses crossing the sites. Moreover, they do not lie in a 100-year flood hazard area as shown in Figure 2.

## V. PROPOSED DRAINAGE CONDITIONS:

### A. Criteria

The computations, conclusions and recommendations contained in this report are based on criteria found in the City of Albuquerque Development Process Manual, Volume 2, Design Criteria.

### B. Off-Site Drainage

During the initial planning conference with the Hydrology section of the City Engineer's office on November 10, 1983, it was determined that free discharge would be allowed from the site. Because of the possibility of conveying runoff across the north property line into the right-of-way (R.O.W.) of the Pino Arroyo, three alternates were discussed with Dan Sabo, staff engineer for AMAFCA. These are summarized as follows:

1. No detention pond; free discharge directly into the AMAFCA R.O.W.

   AMAFCA would permit the runoff from Lot 10 (less than 5 cfs) to enter their R.O.W if it could be conveyed in a ditch along the toe of slope of the Pino dike to an outfall at the North Diversion Channel 700 feet to the west. Moreover, AMAFCA maintenance crews would clean out and re-grade such a ditch, if necessary.

   This alternative was investigated in the field will the following results. There is presently no ditch in the AMAFCA R.O.W. at the rear of either Lot 10 or Lot 9 to the west. In fact, the toe of slope of the dike extends all the way to the edge of R.O.W. along much of the dike, so that there is insufficient width for the construction of a ditch. Therefore this option was not viable, and a detention pond was required for Lot 10.

2. Detention pond with controlled discharge through the dike into the South Pino Inlet.

   Gravity flow through a drain pipe from a detention pond on Lot 10 would require penetrating the Pino dike about ten feet below the level of the 100-year flood flow in the Pino. This solution was not acceptable due to the risk of backflow in the pipe from the Pino, causing flooding of Lot 10 and sites downstream.

Besides AMAFCA, the Corps of Engineers would also not approve this solution because it would involve what they consider a "major" breach of the compacted dike: penetration below the flood level.

3. Detention pond with controlled discharge by pumping through the Pino dike in the three-foot freeboard above the 100-year flood level.

   AMAFCA would permit a penetration of the dike with a drain line above the 100-year flood level. This would require trenching through the AMAFCA service/maintenance road atop the dike and through the rip-rap protected inner slope of the dike. The trench would have to be backfilled and compacted to AMAFCA standards.

The remaining alternatives for draining the needed detention pond can be summarized as follows:

4. Detention pond with controlled discharge into adjacent properties.

   Drainage of the detention pond by gravity flow across the adjacent private properties is not possible unless a dedicated drainage easement is provided on each of those properties. As shown in Figure 1, three properties to the west would be involved: (1) Lot 9, (2) a 150-ft. wide easement for the Public Service Company, and (3) Lot A-1. It was determined that the

engineering and legal costs to obtain such dedicated easements would be prohibitive.

5. Detention pond with controlled discharge by pumping to the street on the south side of the property.

   This method of discharge would be identical to the method presently approved for discharging the pond on Lot 11 upstream to the east of the study site.

Given the choice of pumping over the dike or pumping to the street, Boyle Engineering recommended Alternate No. 5: pumping to the street. Material costs for both pumping Schemes (Alternate Nos. 3 & 5) were approximately the same. However, Alternate No. 3 would have required additional engineering costs in coordinating with AMAFCA and with the Corps of Engineers for the necessary permits for construction of this alternative.

Alternate No. 5 was therefore chosen with the concurrence of the project Architect, Stevens, Mallory, Pearl & Campbell.

C. On-Site Drainage and Special Features

The study site will be graded in such a way that runoff will flow in a northwesterly direction to a swale at the west property line. Flow in the swale will enter a detention pond at the north end of the property.

As discussed in paragraph 4 above, controlled discharge by gravity flow could not be permitted. The selected alternate was to pump the water to the street. A dewatering pump was therefore sized and selected to deliver 70 gpm at 8 feet of head, including friction losses in the 4-inch PVC discharge line to the street. This pump can drain the 100-year storm from the pond in less than 11 hours. The pump is to be fixed to the bottom slab of a standard Single "D" catch basin per City Drawing K-6-2. The catch basin is located in the west end of the detention pond. Dischagre from the 4-inch line into the street will be through the curb per City Drawing K-15.

The pond was sized and the grading was done in such a way as to permit further development of a portion of Area 2 without having to regrade the pond or increase its capacity.

The new driveway entrance into the property will be cut into the existing curb of Academy Parkway. To prevent gutter flows from entering the site, an Albuquerque City standard drive pad will be constructed at this location.

## VI. FINDINGS AND CONCLUSIONS:

A. The 100-year developed discharge for the entire site is 3.2 cfs, which exceeds the undeveloped discharge by 1.55 cfs.

B. Free discharge is not possible because of the absence of dedicated drainage easements across private property downstream.

C. The net runoff requiring ponding is 2,827 cu. ft. However, because the detention pond is drained by pumping rather than by gravity flow, the pond will be sized to contain the total developed volume of 5,653 cu. ft.

D. If the dewatering pump fails to operate, the high-water mark in the pond will reach approximately to elevation 87.7.

E. If the pump operates properly, the high water mark in the pond will reach approximately to elevation 87.2 for the 100-year event.

F. An Erosion Control Plan is not required under Section 22.5 of the DPM as this project does not involve the grading of more than 1.0 acres or more than 500 cu. yd. of earthwork.

VII. RECOMMENDATIONS:

A. Provide a pumped discharge capability of 70 gpm from the detention pond to the north curb of Academy Parkway North.

B. Provide a 4-inch drain line through the curb using City standard details. Elevate the drain line inside the property 8 inches above the flow line in the street, so

that gutter flows cannot enter the pipe, nor make their way to the pond.

C. Elevate the landscaped area above the 4-inch line so as to provide a minimum of 6 inches of cover above the PVC pipe on the street side of the building.

D. Confine street flows within the gutter of Academy Parkway using a standard City drive pad at the new driveway entrance.

Respectfully submitted,

BOYLE ENGINEERING CORPORATION

Thornton D. Schwenk

Thornton D. Schwenk, P.E.
Senior Civil Engineer

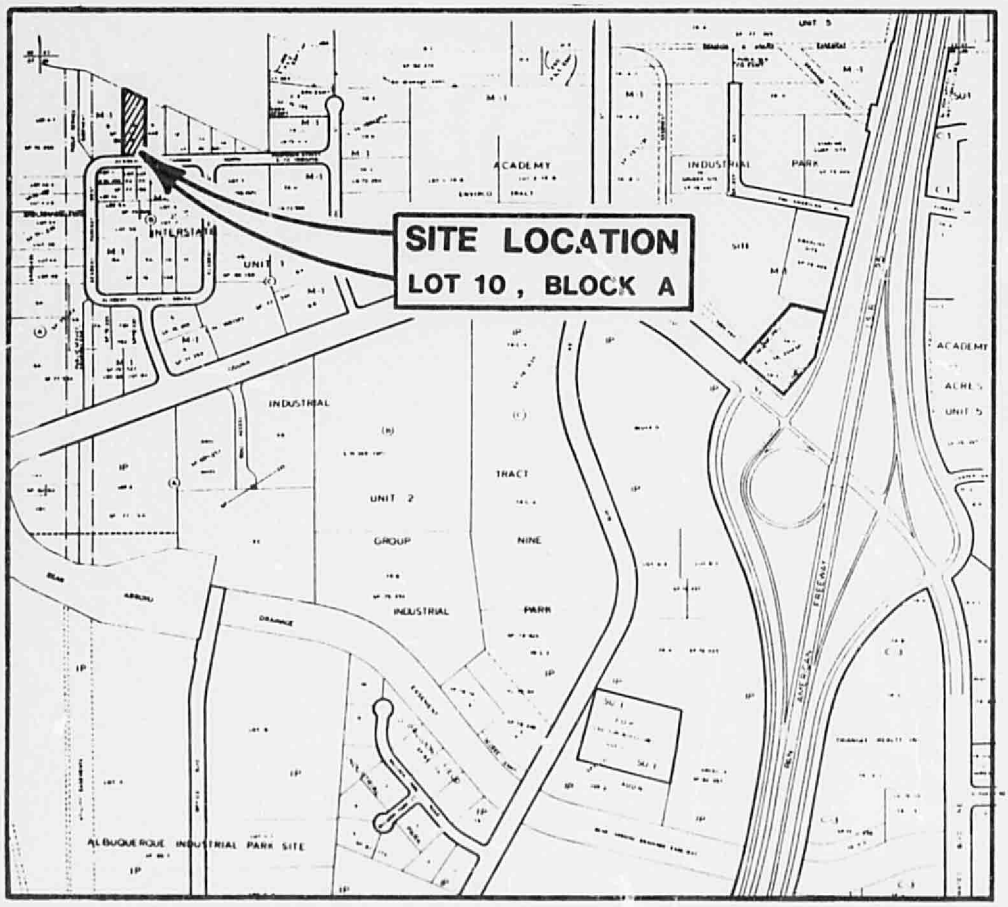
REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW MEXICO
No. 4739
THORNTON D. SCHWENK

April 26, 1984

# APPENDIX

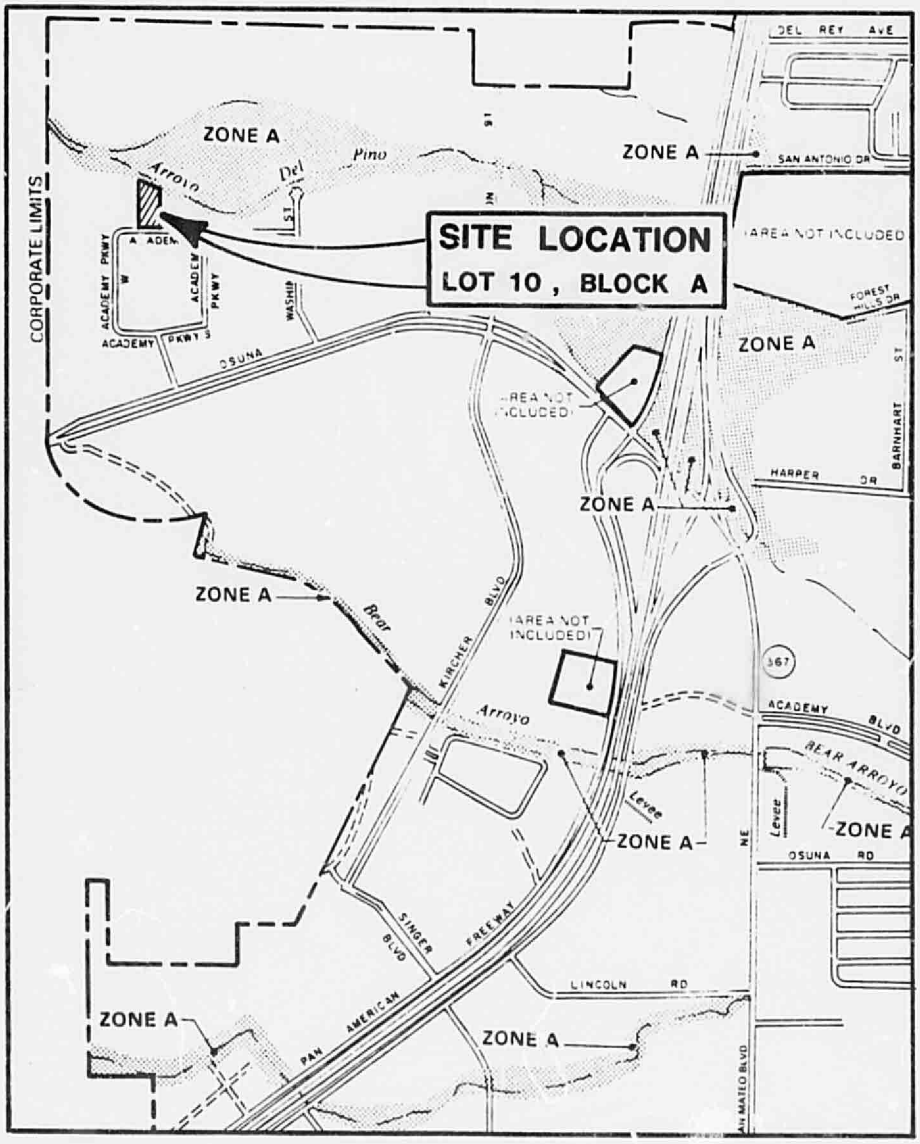
# DRAINAGE CALCULATIONS

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




E-17-Z

FIGURE 1




**FLOOD HAZARD BOUNDARY MAP**
**COMMUNITY PANEL NUMBER**
**350002 0002 B 12/4/79**
**FIGURE 2**

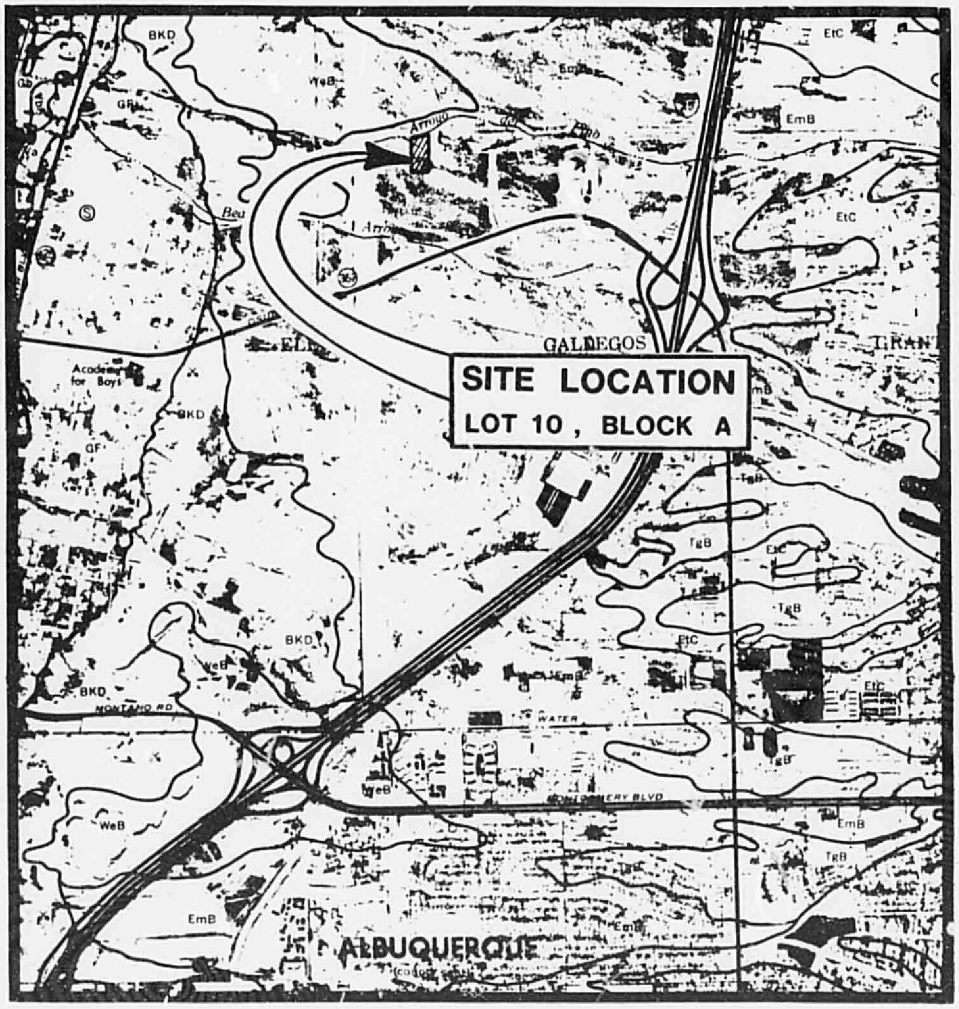

SITE LOCATION
LOT 10 , BLOCK A
GALLEGOS
ALBUQUERQUE
BKD
WeB
EmB
EtC
TgB
TrB
Academy for Boys
MONTANO RD
WATER
MONTGOMERY BLVD

FIGURE 3

# BENCH MARK DATA

City of Albuquerque, New Mexico
Public Works Department
Engineering Division

State NM County Bernalillo

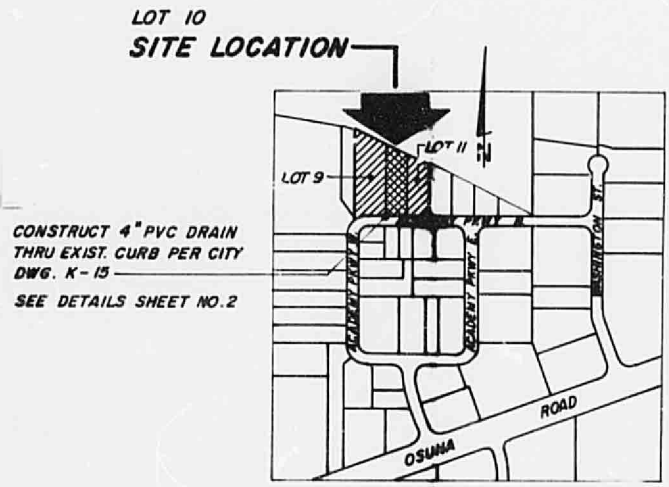
Geographic Quadrant of City: ☐ NW; ☒ NE; ☐ SE; ☐ SW;

Establishing Agency ACS Year 1974

| BM. No. | Location | Bench Mark Description | Elevation (MSLD 1929) Ft. / Meters |
|---|---|---|---|
| 11-D17 | Located along an electric x-mission line, in an open field, 0.75 miles west of Hwy. I-25, and about 200 ft. north of the projected centerline of San Antonio Drive NE. | A 40-penny nail in the north pole of pylon #RE7. | #5098.591<br>1554.053 |
| 12-D17 | Located along an electric x-mission line, in an open field, 0.9 miles west of Hwy. I-25 and about 300 ft. north of the projected centerline of San Antonio Drive NE. | A 40-penny nail in the north pole of a pylon. | #5089.596<br>1551.312 |
| 5-D18 | Located on the east side of Hwy. I-25, about 450 ft. south of the I-25/Los Angeles Blvd. Overpass. | A square, ☑, chiseled on the NE corner of a concrete headwall of the Domingo Baca Arroyo. | #5179.965<br>1578.856 |
| 6-D18 | Located on the north side of Pino Ave. NE, 65 ft. east of the junction with I-25 East Frontage Road. | A square, ☑, chiseled on top of concrete curb | #5197.686<br>1584.258 |

(##) = 1st-Order (##) = 2nd-Order (@) = 3rd-Order

FIGURE 4




**VICINITY MAP E-17-Z**

REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW MEXICO
No. 4739
THORNTON D. SCHWERK

4-24-84

## NOTICE TO CONTRACTOR

1. An excavation/construction permit will be required before beginning any work within City right-of-way. An approved copy of these plans must be submitted at the time of application for this permit.

2. All work detailed on these plans to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with Public Works Contract No. 84-1.

3. Two working days prior to any excavation, contractor must contact Line Locating Service, 765-1234, for location of existing utilities.

4. Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.

5. Backfill compaction shall be according to Arterial street use.

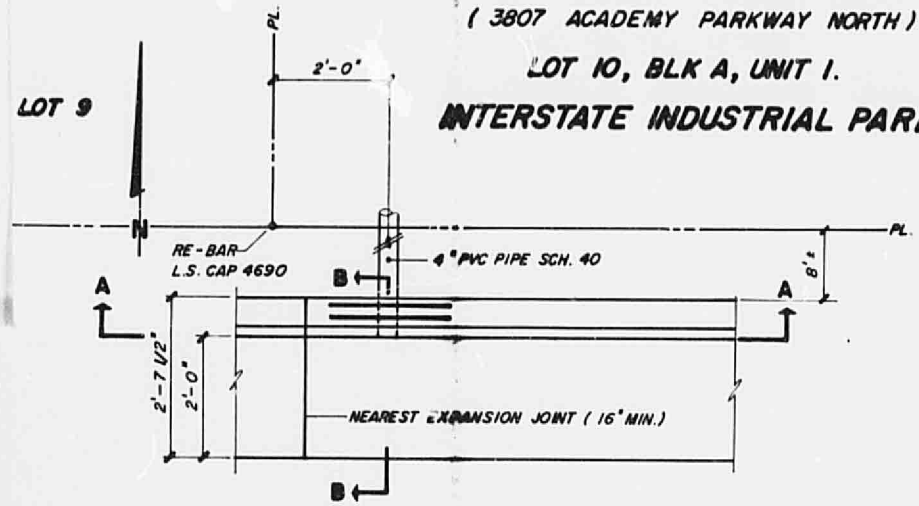
| CITY OF ALBUQUERQUE | | | | |
|---|---|---|---|---|
| APPROVALS | ENGINEER | DATE | TITLE DRAIN LINE THRU CURB LOT 10, BLK A, UNIT 1. (3807 ACADEMY PARKWAY NORTH) | |
| A.C.E. / DESIGN | | | | |
| INSPECTOR | | | PERMIT NO. | MAP |
| A.C.E. / FIELD | | | SHEET NO. 1 OF 2. | NO. E-17-Z |

FIGURE 5A

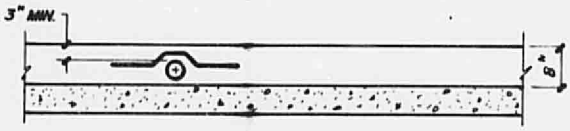
( 3807 ACADEMY PARKWAY NORTH )

LOT 10, BLK A, UNIT 1.

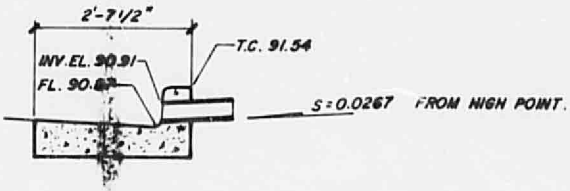
INTERSTATE INDUSTRIAL PARK




PLAN




SECTION A-A




SECTION B-B

FOR GENERAL NOTES AND CONSTRUCTION NOTES, SEE CITY DWG. K-15.

CITY OF ALBUQUERQUE

| APPROVALS | ENGINEER | DATE | TITLE DRAIN LINE THRU CURB 3807 ACADEMY PARKWAY NORTH | |
|---|---|---|---|---|
| A.C.E. / DESIGN | | | | |
| INSPECTOR | | | PERMIT NO. | MAP |
| A.C.E. / FIELD | | | SHEET NO. 2 OF 2 | NO E-17-Z |

FIGURE 5 B

0973