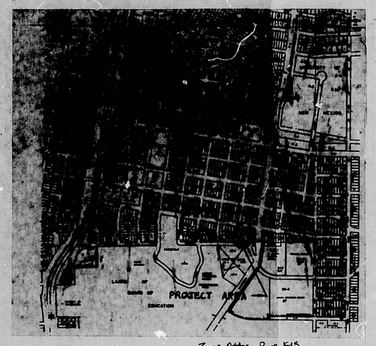
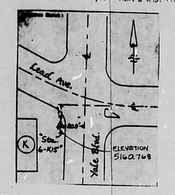


Zone Atlas Page K-15

PROJECT BENCHMARK

Station is located 1.8 miles east of downtown Albuquerque, near the intersection of Yale Blvd. and Lead Ave. Station is a ● 3/4 aluminum tablet set in a drill hole stem with sidewalk. Station is stamped "ACS, G.C.S., 1984"



TBM

Notch on top of curb at southeast corner of lot
Elevation 5104.6

LEGAL DESCRIPTION

Summary Replat Showing Tracts "A" in Block 39
Terrace Addition Albuquerque New Mexico

DRAINAGE PLAN

This plan has two features to note. The water from the south end of the project site is diverted around the new building and third floor parking lot and into Pine St. Since the project site is not within a floodplain, the runoff will then be allowed to flow over the curb. Also there is a sidewalk culvert on the north side of the site.

Runoff from the north side of the site will be allowed to pond on site. The pond will retain runoff from approximately 0.05 acres. Developed condition will only increase flow into Pine St. by 0.08 c.f.s.

CALCULATIONS

1. Runoff undeveloped condition

Q₂₅ C1A

SURFACE	AREA	C VALUE
DIRT	5438.32	0.60

RAINFALL ISOPLUVIAL CHART (SEE D-A PLATE 22.2 D-11)

$P_{6,2} = 2.35$ inches

TIME OF CONCENTRATION

$T_c = 0.00078\ L^{.77} / S^{.385}$ (Kirpich Equation)

L = 180
S = 1.02

$T_c = 0.00078 \times \frac{180^{.77}}{1.02^{.385}} = 0.858$ Use 10 min

RAINFALL INTENSITY, I (SEE D-A PLATE 22.2 D-12)

$I = P_{6,2} \times 4.84\ T_c^{(.857 - .786\ P_{6,2}/P_{10,100})} = 4.84 \times 2.35 \times 0.858^{(.857 - .786 \times 2.35/4.45)} = 9.97$ in/hr

PEAK DISCHARGE, RATIONAL FORM.

$Q = 0.90 \times 0.60 \times 9.97 = 5.38$ c.f.s.

2. Runoff developed condition, into Pine St.

Q₂₅ C1A

SURFACE	AREA	C VALUE	Q
ROOF	1833.00	0.90	1.65
GRASS	3344.00	0.25	0.84
CONCRETE	1461.00	0.95	1.39
PAVEMENT	1100.00	0.95	1.05
TOTAL AREA =	6738		5.73

WEIGHTED C VALUE = 5.73 / 6.738 = 0.85

T_c = 10 min

$P_{6,2} = 2.35$ in/hr I

$I = P_{6,2} \times 4.84 \times \frac{}{}$ = 9.97 in/hr

$Q = 0.85 \times 0.60 \times 9.97$

= 5.08 c.f.s.

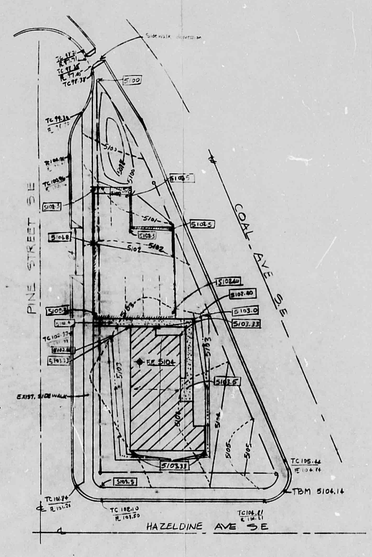
3. Runoff undeveloped condition into pond

Q₂₅ C1A

SURFACE	AREA	C VALUE
GRASS	1294.32	0.25

$Q = 0.25 \times 0.60 \times 9.97$ c.f.s.

= 0.07 c.f.s.

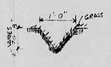


LEGEND:

-----5105-----	EXISTING CONTOUR
——5105——	NEW CONTOUR
5104.8	NEW SPOT ELEVATION
x 101.84	EXISTING SPOT ELEVATION
——→——	NEW SWALE
	NEW SIDEWALK
	EXISTING SIDEWALK AND CURB
	NEW PAVEMENT ASPHALT
	NEW BUILDING
——— ——— ———	PROPERTY LINE
TC	TOP OF CURB
E	FLOW LINE

CONSTRUCTION NOTES

1. Grading Contractor to ensure that no silt create from the site [illegible] or into existing property.
2. All work in the project shall be performed in accordance with applicable federal, state and local laws, rules and regulations concerning construction safety and health.
3. All construction within public right-of-way shall be performed in accordance with applicable City of Albuquerque standards and specifications.
4. Prior to grading, contractor must contact any utilities shown on location of existing utilities.
5. Pond drainage to flow into new swale. Prof slope 4 on 12



Typical Swale Detail

1st Review 1/1/87 → Revised Plans, and Incorporate Review Cmts from City Engineer

GRADING PLAN
For New Fourplex at Coal & Hazeldine Streets
Albuquerque, New Mexico

3/14/88

RP 21 DATE 2/24/88 BY JSP

CITY OF ALBUQUERQUE

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Kim Anaya
CITY CLERK RECORDER

OFFICIAL SEAL NORBERTA SANCHEZ NOTARY PUBLIC STATE OF NEW MEXICO
My Commission Expires May 8, 1991
Norberta Sanchez

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

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

PLANS/PLATS ON FILE

FILE DESC: K-15/D048

PLANS/PLATS 1

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CITY OF ALBUQUERQUE

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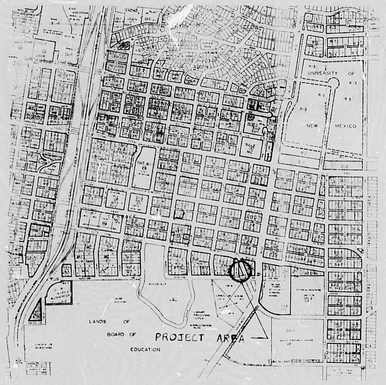
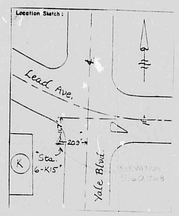


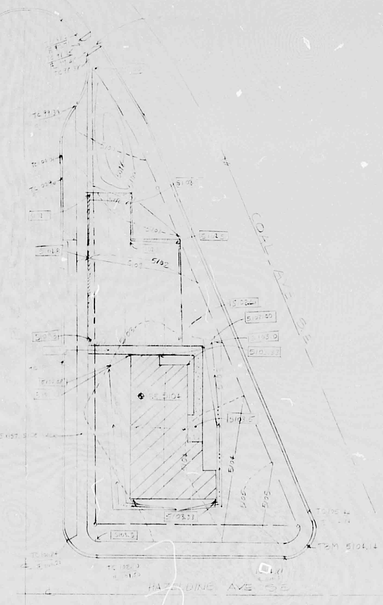
Zone Atlas Page K-13



PROJECT BENCHMARK

ITEM

DESCRIPTION



LEGEND

EXISTING CURB

EXISTING CURB & GUTTER

NEW WALK

NEW SIDEWALK

EXISTING SIDEWALK TO BE REMOVED

NEW PAVEMENT

NEW CURB

PROPERTY LINE

TEMPORARY EASEMENT

3/14/88

GRADING PLAN
FOR NEW Complex AT Corner
Headline Streets
ALBUQUERQUE, NEW MEXICO

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

CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST
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