HYDROLOGY K15/D39 1 PLAN

K15/D39

1 Plan

K-15/D39

Sycamore Partners
500 Marquette Ave. N.W.
Albuquerque, NM 87112
September 4, 1986

RECEIVED
SEP 03 1986
HYDROLOGY SECTION

City of Albuquerque
Public Works Department
P.O. Box 1293
Albuquerque, NM 87102

RE: LETTER OF COMMITMENT TO EXECUTE LICENSE AGREEMENT WITH THE CITY OF ALBUQUERQUE FOR PARTIAL PAVING IF ALLEY - PROJECT 3013.

To Whom It May Concern:

As owners of property described as Lots 4, 5 and 6, Block 41, Terrace Addition, commitment is hereby made by Sycamore Partners to enter into a license agreement at the earliest possible time for the purpose of constructing a portion of the east-west alley which is south of Central Avenue and connects Sycamore and Maple Streets, S.E., and which is shown on the approved plan and profile sheet 1 of 1 for Project 3013.

Sincerely,

William G. Chaney, Partner

DRAINAGE CALCULATIONS

SYCAMORE SQUARE OFFICE COMPLEX

K15/D27

SEPTEMBER 4, 1986

Capacity of concrete drainage channel along east side of property. Channel will carry flow from adjacent property (Cafe Oceana) and will carry roof drainage from Sycamore Square Area "A".

Off-site flow from Cafe Oceana = 0.66 CFS

On-site drainage from roof Area "A" = 0.67 CFS

Total peak runoff = 1.33 CFS

Slope of channel and inverts are to match existing slope and inverts of the existing 8" PVC pipe which will be replaced by the concrete channel section. Slope = 0.0136 ft./ft. Cross section is 8" wide by 8" deep with the depth of flow to be 6". Use Mannings Equation to determine capacity.

$V = (1.486/n)R^{2/3}S^{1/2}$ n = 0.013 for concrete.

P = Wetted Perimeter = 6" + 8" + 6" = 20" = 1.67'

A = (8" X 6") / 144 = 0.33 SF

R = A/P = 0.33/1.67 = 0.1976

$V = (1.486/0.013)(0.1976)^{2/3}(0.0136)^{1/2} = 4.52$ FPS

Q = AV = 0.33 X 4.52 = 1.49 CFS > 1.33 CFS The capacity is adequate.

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 768-7644

September 30, 1986

Frank Lovelady, P.E.
Lovelady & Associates
7408 Morrow Road, NE
Albuquerque, New Mexico 87110

RE: REVISED DRAINAGE PLAN SUBMITTAL OF SYCAMORE SQUARE, RECEIVED SEPTEMBER 23, 1986 FOR BUILDING PERMIT APPROVAL (K-15/D39)

Dear Frank:

The above referenced submittal, revised September 23, 1986, is approved for Building Permit. Conditions for Hydrology sign-off on permit still apply as required by my memo of September 8, 1986.

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

Cordially,

Roger A. Green, PE

Roger A. Green, P.E.
C.E./Hydrology Section

cc: Phil Custer

RAG/bsj

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Sycamore Square Development ZONE ATLAS/DRNG. FILE #: K15/D39

LEGAL DESCRIPTION: Lots 4 Through 6, Terrace Addition

CITY ADDRESS: 1400 Central Avenue, SE

ENGINEERING FIRM: Lovelady & Associates CONTACT: Frank Lovelady

ADDRESS: 7408 Morrow Road, NE87110 PHONE: 883-7973

OWNER: Sycamore Square Partnership CONTACT: Phil Custer

ADDRESS 500 Marquette NW PHONE: 765-1020

ARCHITECT: Custer-Basarich AIA CONTACT: Phil Custer

ADDRESS: 500 Marquette PHONE: 765-1020

SURVEYOR: Hall Surveying Co. CONTACT: Verlon Hall

ADDRESS: PHONE:

CONTRACTOR: Lembke Construction CONTACT:

ADDRESS: PHONE:

PRE-DESIGN MEETING:

RECEIVED
SEP 23 1986
HYDROLOGY SECTION

X YES DRB NO.

NO EPC NO.

X COPY OF CONFERENCE RECAP SHEET PROVIDED W/ORIGINAL SUBMITTAL PROJECT NO.

TYPE OF SUBMITTAL:

- DRAINAGE REPORT
- DRAINAGE PLAN
- CONCEPTUAL GRADING & DRAIN. PLAN
- GRADING PLAN
- EROSION CONTROL PLAN
- ENGINEER'S CERTIFICATION
- REVISION - Grades at drivepad on Sycamore Street were revised as required by Traffic Engineering.

CHECK TYPE OF APPROVAL SOUGHT:

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

DATE SUBMITTED: Sept. 23, 1986

BY: Frank D. Lovelady
Frank D. Lovelady, P.E.

Rev. 11/84

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

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

September 8, 1986

Frank Lovelady, P.E.
Lovelady & Associates
7408 Morrow Road, NE
Albuquerque, New Mexico 87110

RE: REVISED DRAINAGE PLAN OF SYCAMORE SQUARE (K-15/D39)
RECEIVED SEPTEMBER 5, 1986 FOR BUILDING PERMIT APPROVAL

Dear Frank:

The above referenced Drainage Plan, revised September 4, 1986, is approved for Building Permit, although permit cannot be signed-off by Hydrology until the signed copy of the letter of commitment to pave the alley has been provided to this office.

Be advised that your method of calculating volumes of runoff is not acceptable. The Rational "C" factor used to calculate peak runoff flow rates is not acceptable for calculating runoff volumes. The DPM requires that the SCS runoff curve number (CN) method be used. Refer to DPM plates 22.2 - C-2, C-3, C-4.

Copies of this approved plan must be included with the construction sets for Building Permit sign-off. Also, the contractor must obtain a separate excavation construction permit with this approved plan to tie into the existing catch basin in Sycamore Street.

If you have any questions, call me at 766-7644.

Cordially,

Roger A. Green, PE

Roger A. Green, P.E.
C.E./Hydrology Section

cc: Phil Custer,
Sycamore Square Partnership

RAG/bsj

RECEIVED
SEP 05 1986
HYDROLOGY SECTION

Lovelady & Associates
7408 morrow Road, N.E.
Albuquerque, NM 87110
September 4, 1986

Design Hydrology Section
123 Central NW
Albuquerque, NM 87102

RE: Sycamore Square Office Complex (K15/D27)

Gentlemen:

Some minor revisions have been made to the referenced plan which are listed below to assist in the review.

1. Spot elevations have been added at the front of the building along Central Avenue.

2. Elevations of the existing curb and flow line have been added at the entrance of the ground level parking structure on Sycamore Street.

3. The floor drain that drains the small unroofed portion of the ground level parking structure is no longer required to carry roof drainage from roof Area "A".

4. A concrete channel has been added along the east property line to replace the existing 8" PVC pipe draining Cafe Oceana. The owners of both properties met at the site and agreed it would be easier to maintain an open channel in such a confined area. Calculations are attached.

5. The grades in the alley have been revised to conform to the approved alley grades.

6. The second level parking structure deck has been revised.

7. A block has been provided for sign-off of "Drainage Facilities Within City Right-of-Way".

The following are attached for your review:

1. Two (2) copies of the Grading and Drainage Plan as required for S.O. 19 sign-off.

2. A print of the P&P for Project 3013, approved alley grades.

3. A copy of the letter of commitment from the owner to the City of Albuquerque commiting the owner to pave the alley.

4. An updated information sheet.

In reviewing my file for Cafe Oceana, I noticed that the Hydrology number assigned to Cafe Oceana was also K15/D27, the number assigned to Sycamore Square. D39

It is requested that the attached plan be reviewed at your earliest possible opportunity.

Sincerely,

Frank D. Lovelady, P.E.

SYCAMORE SQUARE

NOTE: THE LETTER OF COMMITMENT HAS BEEN SENT TO THE OWNER FOR SIGNATURE.

THERE IS APPARENTLY SOME POSSIBILITY THAT THE CITY WILL PAVE THE ALLEY SINCE THE SYCAMORE SQUARE IS A REDEVELOPMENT PROJECT.

AT LEAST THE PLAN CAN BE IN THE REVIEW PROCESS WHILE THIS IS BEING RESOLVED.

FRANK LOVELADY 9/5/86

DRAINAGE INFORMATION SHEET

SYCAMORE SQUARE

PROJECT TITLE: DEVELOPMENT ZONE ATLAS/DRN FILE #: K15

LEGAL DESCRIPTION: Lots 4 through 6, Terrace Addition

CITY ADDRESS:

ENGINEERING FIRM: Lovelady & Associates CONTACT: Frank Lovelady

ADDRESS: 7408 Morrow Road, N.E. 87110 PHONE: 883-7973

OWNER: Sycamore Square Partnership CONTACT: Phil Custer

ADDRESS 500 Marquette, Suite 302 PHONE: 765-1020

ARCHITECT: Custer-Basarich AIA CONTACT: Phil Custer

ADDRESS: 500 Marquette, Suite 302 PHONE: 765-1020

SURVEYOR: Hall Surveying Co. CONTACT: Verlon Hall

ADDRESS: PHONE:

CONTRACTOR: Lembke Construction CONTACT:

ADDRESS: PHONE:

PRE-DESIGN MEETING:

X YES

____ NO

X COPY OF CONFERENCE RECAP SHEET PROVIDED

RECEIVED
SEP 05 1986
HYDROLOGY SECTION

DRC NO.

EPC NO.

PROJECT NO.

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT

X DRAINAGE PLAN

____ CONCEPTUAL GRADING & DRAIN. PLAN

____ GRADING PLAN

____ EROSION CONTROL PLAN

____ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

____ SKETCH PLAT APPROVAL

____ PRELIMINARY PLAT APPROVAL

____ SITE DEVELOPMENT PLAN APPROVAL

____ FINAL PLAT APPROVAL

X BUILDING PERMIT APPROVAL

X Special Order 19

____ FOUNDATION PERMIT APPROVAL

____ CERTIFICATE OF OCCUPANCY APPROVAL

____ ROUGH GRADING PERMIT APPROVAL

____ GRADING/PAVING PERMIT APPROVAL

OTHER _____ (SPECIFY)

DAT. SUBMITTED: September 5, 1986

BY: Frank D. Lovelady, P.E.

Rev. 11/84

DRAINAGE INFORMATION SHEET

PROJECT TITLE: SYCAMORE SQUARE DEVELOPMENT ZONE ATLAS/DRNG. FILE #: K15 / D39

LEGAL DESCRIPTION: Lots 4 through 6, Terrace Addition

CITY ADDRESS:

ENGINEERING FIRM: Lovelady & Associates CONTACT: Frank Lovelady

ADDRESS: 7408 Morrow Road, N.E. 87110 PHONE: 883-7973

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SURVEYOR: Hall Surveying Co. CONTACT: Verlon Hall

ADDRESS: PHONE:

CONTRACTOR: Lembke Construction CONTACT:

ADDRESS: PHONE:

RECEIVED
AUG 27 1986
HYDROLOGY SECTION

PRE-DESIGN MEETING:

X YES

____ NO

X COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO.

EPC NO.

PROJECT NO.

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT

X DRAINAGE PLAN

____ CONCEPTUAL GRADING & DRAIN. PLAN

____ GRADING PLAN

____ EROSION CONTROL PLAN

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____ SKETCH PLAT APPROVAL

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____ SITE DEVELOPMENT PLAN APPROVAL

____ FINAL PLAT APPROVAL

X BUILDING PERMIT APPROVAL

X Special Order 19

____ FOUNDATION PERMIT APPROVAL

____ CERTIFICATE OF OCCUPANCY APPROVAL

____ ROUGH GRADING PERMIT APPROVAL

____ GRADING/PAVING PERMIT APPROVAL

OTHER _____ (SPECIFY)

DAT. SUBMITTED: August 27, 1986

BY: Frank D. Lovelady, P.E.

Rev. 11/84

DRAINAGE INFORMATION SHEET

PROJECT TITLE: SYCAMORE SQUARE DEVELOPMENT ZONE ATLAS/DRNG. FILE #: K15 / D29

LEGAL DESCRIPTION: Lots 4 through 6, Terrace Addition

CITY ADDRESS:

ENGINEERING FIRM: Lovelady & Associates CONTACT: Frank Lovelady

ADDRESS: 7408 Morrow Road, N.E. 87110 PHONE: 883-7973

OWNER: Sycamore Square Partnership CONTACT: Phil Custer

ADDRESS 500 Marquette, Suite 302 PHONE. 765-1020

ARCHITECT: Custer-Basarich AIA CONTACT: Phil Custer

ADDRESS: 500 Marquette, Suite 302 PHONE: 765-1020

SURVEYOR: Hall Surveying Co. CONTACT: Verlon Hall

ADDRESS: PHONE:

CONTRACTOR: Lembke Construction CONTACT:

ADDRESS: PHONE:

PRE-DESIGN MEETING:

X YES

____ NO

X COPY OF CONFERENCE RECAP SHEET PROVIDED

RECEIVED AUG 15 1986 HYDROLOGY SECTION

DRB NO.

EPC NO.

PROJECT NO.

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT

X DRAINAGE PLAN

____ CONCEPTUAL GRADING & DRAIN. PLAN

____ GRADING PLAN

____ EROSION CONTROL PLAN

____ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

____ SKETCH PLAT APPROVAL

____ PRELIMINARY PLAT APPROVAL

____ SITE DEVELOPMENT PLAN APPROVAL

____ FINAL PLAT APPROVAL

X BUILDING PERMIT APPROVAL

X FOUNDATION PERMIT APPROVAL

____ CERTIFICATE OF OCCUPANCY APPROVAL

____ ROUGH GRADING PERMIT APPROVAL

____ GRADING/PAVING PERMIT APPROVAL

OTHER ____ (SPECIFY)

DATE SUBMITTED: August 15, 1986

BY: Frank D. Lovelady, P.E.

Rev. 11/84

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

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

August 5, 1986

Frank Lovelady
Lovelady & Associates
7408 Morrow Road, NE
Albuquerque, New Mexico 87110

RE: DRAINAGE PLAN FOR SYCAMORE SQUARE DEVELOPMENT
(K-15/D27) RECEIVED AUGUST 1, 1986

D39

Dear Frank:

Based on the information provided on your submittal of August 1, 1986, foundation permit only is approved. Please be advised that before building permit is approved, the following information will be required:

1. Approved copy of alley grades.
2. Copy of work order or license agreement for the improvements on the alley.
3. Please include the block number in your legal description on the plan drawings.

If I can be of further assistance, please feel free to call me at 766-7644.

Cordially,

Bernie J. Montoya

Bernie J. Montoya, C.E.
Engineering Assistant

BJM/bsj

DRAINAGE INFORMATION SHEET

PROJECT TITLE: SYCAMORE SQUARE DEVELOPMENT ZONE ATLAS/DRNG. FILE #: K15

LEGAL DESCRIPTION: Lots 4 through 6, Terrace Addition

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ENGINEERING FIRM: Lovelady & Associates CONTACT: Frank Lovelady

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SURVEYOR: Hall Surveying Co. CONTACT: Verlon Hall

ADDRESS: PHONE:

CONTRACTOR: Lembke Construction CONTACT:

ADDRESS: PHONE:

PRE-DESIGN MEETING:

X YES

____ NO

X COPY OF CONFERENCE RECAP SHEET PROVIDED

RECEIVED
AUG 01 1986
HYDROLOGY SECTION

DRB NO.

EPC NO.

PROJECT NO.

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT

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____ GRADING PLAN

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____ SITE DEVELOPMENT PLAN APPROVAL

____ FINAL PLAT APPROVAL

X BUILDING PERMIT APPROVAL

X FOUNDATION PERMIT APPROVAL

____ CERTIFICATE OF OCCUPANCY APPROVAL

____ ROUGH GRADING PERMIT APPROVAL

____ GRADING/PAVING PERMIT APPROVAL

____ OTHER _____ (SPECIFY)

DATE SUBMITTED: August 1, 1986

BY: Frank D. Lovelady, P.E.

Rev. 11/84

GRADING AND DRAINAGE PLAN

AND

SUPPLEMENTAL INFORMATION

FOR

SYCAMORE SQUARE DEVELOPMENT

RECEIVED
AUG 01 1986
HYDROLOGY SECTION

ZONE ATLAS NO. K-15 / D27

Lovelady & Associates

AUGUST 1, 1986

SYCAMORE

DRAINAGE REPORT AND DRAINAGE PLAN CHECKLIST
(Abbreviated)

I. GENERAL INFORMATION

- ✓ 1. Information sheet
- N/A 2. Planning history
- N/A a. P&Z action
- N/A b. Relati. to approved M.P.
- 3. Site De cription
- ✓ a. Vicinity map
- ✓ b. Zone atlas number
- c. Legal Description, or
- d. Current Plat REPLAT IN PROCESS
- 4. Bench mark
- ✓ a. A.C.S. vertical datum
- ✓ b. T.B.M. on site
- ✓ 5. Flood hazard map
- N/A 6. Watershed soils
- ✓ 7. Soils report
- N/A a. Pond<15' from exist. structure
- N/A b. Pond<15' from new structure
- N/A c. Pon<15' from P.L., less setback
- N/A d. Pon <18" deep 10' from pvm't.
- N/A e. Pon >18" deep 15' from pvm't.
- ✓ 8. Drainage report or plan

II. PLAN DRAWINGS

- 1. Professional Certification
- ✓ a. Engineer's stamp
- ✓ b. Engineer's signature
- ✓ c. Date
- N/A d. Revision date (when applicable)
- 2. Drafting standards
- ✓ a. North arrow
- ✓ b. scales
  - 1"=20' < 5 acres
  - 1"=50' ≥ 5 acres
- ✓ c. Legend
- ✓ d. Drawing size 24"x36"
- ✓ e. notes
- Property line
- EA Asphalt paving
- Sidewalks
- Planting areas
- EP Ponding areas
- Other features

III. EXISTING CONDITIONS

- A. On-site
- 1. Existing Contours
- ✓ a. 1' interval < 1%
- b. 2' interval 1%-5%
- c. 5' interval > 5%
- ✓ 2. Spot Elevations
- 3. Contours & spot elevations
- ✓ a. A min of 25' beyond P.L.
- 4. Existing structures
- ✓ a. Buildings
- b. Retaining & garden walls
- c. Min. 25' beyond P.L.
- ✓ 5. Identify drainage facilities
- ✓ a. On-site
- ✓ b. On adjacent property
- ✓ 6. Pertinent elev. for 4 & 5 above.
- ✓ a. Finished floor (MSL)
- ✓ b. Invert, grate, etc.(MSL)
- 7. All existing easements
- ✓ a. Dimensions
- b. Purpose
- 8. Existing curb elevations (MSL)
- ✓ a. Top of curb
- ✓ b. Flow line
- 9. Flow quantities
- ✓ a. Undeveloped rate
- ✓ b. Undeveloped volume
- ✓ c. Developed rate
- ✓ d. Developed volume
- 10. Flow characteristics
- N/A a. Flow depth
- N/A b. Flow velocity
- N/A c. Locations of A & B

- B. Off-site
- 1. Delineation of W.S. on...
- a. 1" = 200' orthotopo, or
- b. 1" = 500' Floodway map
- NA 2. Off-site flow quantities
- a. 10-year flow rate
- b. 100-year flow rate
- 3. Off-site flow description
- a. Flow depth
- b. Flow velocity
- c. Locations of a. & b.
- 4. Other conditions
- 5. Existing Easements & R.O.W

IV. PROPOSED CONDITIONS

- A. On- Site
- 1. Define Req'd. Drain. Fac.
- N/A a. Pond Vol. Calculations
- N/A b. Pond positive discharge
- N/A c. Pond emergency spillway
- N/A d. Pond fencing (> 18"deep)
- N/A e. Pond landscaping
- N/A f. Pond maintenance
- N/A g. Channel depths & Velocitie
- N/A h. Storm sewer capacities/HGL
- N/A i. Other facilities(AMAFCA)
- 2. Proposed Contours
- N/A a. 1' interval < 1%
- b. 2' interval 1%-5%
- c. 5' interval U 5%
- 3. Proposed Esm'ts & R.O.W.
- N/A a. Dimensions
- N/A b. Purpose
- 4. Dedicated unpaved R.O.W.
- ✓ a. Alley grades IN PROCESS
- N/A b. Street grades
- N/A 5. Drainage Areas Outlined
- 6. Flow lines
- ✓ a. Sheet flow
- b. Concentrated flow
- ✓ c. Spot elevations
- N/A 7. Pond(s) 100-year H.W.L.
- 8. Building fin. flr. elev
- 9. Slope limitations
- N/A a. < 3' - 2:1 max.
- N/A b. > 3' 3:1 max.
- 10. Elevations at Prop. Lines
- ✓ a. Above adjacent top of curb
- N/A b. Ret. Walls, Grades > 18"
- N/A 11. Details of Drainage Fac.
- ✓ 12. Erosion Control Plan
- 13. City Drive Pads
- a. Spot elevations
- 14. S.O. 19 IN PROCESS
- N/A 15. R.O.W./Esmt. for above
- N/A 16. Nuisance waters
- B. Off-site
- .. Off-site drain. fac.
- N/A a. Definition
- b. Locations
- c. Configuration
- ✓ 2. Verify Downstream Cond.
- N/A 3. Rights-of-way

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

CONFERENCE RECAP

DRAINAGE FILE/ZONE ATLAS PAGE NO.: K 15 DATE: 7-24-86

PLANNING DIVISION NOS: EPC: _____ DRB: _____

SUBJECT: Sycamore Square Development

STREET ADDRESS (IF KNOWN): Lots 4, 5 & 6 Bk 41

SUBDIVISION NAME: Terrace Addn

APPROVAL REQUESTED:

_____ PRELIMINARY PLAT
_____ SITE DEVELOPMENT PLAN
_____ OTHER
_____

_____ FINAL PLAT
X BUILDING PERMIT
_____ ROUGH GRADING

ATTENDANCE:	WHO	REPRESENTING
	Frank Lovelady	
	Carlos Montes	

FINDINGS:

(1) Drainage Plan Per DPM

(2) Using alley for access and drainage. Need City approved alley grades at building permits. Also, need to improve alley due to large volume of traffic and drainage

(3) Free drainage to allowed, however, engineer must address
(A) Building over developed lot.
(B) Remodeling of existing building and addition of parking structure
(C) Roof Heading in central
(D) storm drain in central (48" storm drain)
(E) Alley will accept the offsite flows

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:	Carlos A Montes	SIGNED:	Frankd Lovelady
TITLE:		TITLE:	
DATE:	7-24-86	DATE:	7-24-86

NOTE PLEASE PROVIDE A COPY OF THIS RECAP WITH THE DRAINAGE SUBMITTAL

(7)

CONTROL STATION DATA

City of Albuquerque, New Mexico
Municipal Development
Engineering Division

Name of Station 3-K15 State NM Co. Bernalillo

Establishing Agency ACS Year 1983 Chief of Party S. Trujillo

Section 21 Township 10N Range 3E Map No. K-15

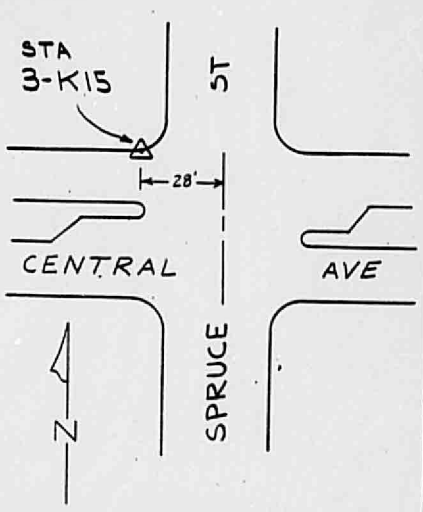
Description:

The station is located 1 mile East of downtown Albuquerque.

To reach the station from the intersection of Broadway Blvd. and Central Avenue, go East on Central 0.8 miles to Spruce Street and the station on the left.

The station mark is a standard ACS aluminum cap stamped "3-K15 1983" set flush with the curb.

Location Sketch:



HORIZONTAL DATA

FIELD METHOD ☒ Traverse ☐ Triangulation ☐ Trilateration

GEOGRAPHIC POSITION (NAD 1927) 2nd -order

Latitude 35° 04' 55.63266" Longitude 106° 37' 54.896423"

PLANE COORDINATES Projection TM State NM Zone Central

X 385738.62 Y 1485353.49 Ground-to-Grid Factor 0.99967207

ELEVATION DATA

SPIRIT LEVEL ELEVATION (SLD 1929) Feet 5077.94 Meters 1547.756 3rd-Order

TRIGONOMETRIC ELEVATION Feet _____ Meters _____

AZIMUTH DATA

θ (or △α) Angle -00° 13' 10"

Station	Grid Azimuth	Geodetic Azimuth	DISTANCE Feet	DISTANCE Meters
2-K 15	279° 42' 40.5"		1787.49	544.829
4-K 15	98° 21' 32.3"		1104.59	336.681

0755