



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

May 18, 1989

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

DRAINAGE PLAN FOR A FOUR-PLEX APARTMENT BUILDING

(K-16/D36) REVISION DATED MAY 12, 1989

Dear Mr. Lovelady:

Based on the information provided on your submittal of May 11, 1989, the above referenced plan is approved for Building Permit.

Please be advised that a separate permit is required for construction within City right-of-way. A copy of this approval letter will be needed when applying for the excavation permit.

Please attach a copy of this plan to the construction sets prior to sign-off by Hydrology.

If I can be of further assistance, please feel free to call me at 768-2650.

Cordially,

Engineering Assistant

Becky Sandoval

BJM/bsj (WP+1103)

DRAINAGE INFORMATION SHEET PROJECT TITLE: Four- ex Apartment Bldg. ZONE ATLAS/L. J. FILE #: K-16/D36 LEGAL DESCRIPTION: Lot 21, Block 18, University Heights Addition CITY ADDRESS: 1 207 Princeton Drive, S.E. ENGINEERING FIRM: Lovelady & Associates CONTACT: Frank Lovelady ADDRESS: 7408 Morrow Ave. NE 87110 PHONE: 883-7973 OWNER: Don Keith & Associates ______CONTACT: Don Keith ADDRESS 7116 Edwina Ct. NE PHONE: 884-4070 CONTACT: ARCHITECT: ADDRESS: PHONE: SURVEYOR: Lovelady & Associates CONTACT: Frank Lovelady ADDRESS: 7408 Morrow Ave. N.E. 87110 PHONE: 883-7973 ADDRESS: 7116 Edwina Ct. NE MAY 1 1 1989 PHONE: 884-4070 The second of th PRE-DESIGN MEETING: HYDROLOGY SECTION YES Note: Used same pre-design DRB NO. for this project as for Lot 21 which is just two Lots EPC NO. NO to the north. COPY OF CONFERENCE RECAP PROJECT NO.__ SHEET PROVIDED CHECK TYPE OF APPROVAL SOUGHT: TYPE OF SUBMITTAL: DRAINAGE REPORT SKETCH PLAT APPROVAL PRELIMINARY PLAT APPROVAL DRAINAGE PLAN CONCEPTUAL GRADING & DRAIN. PLAN ____SITE DEVELOPMENT PLAN APPROVAL FINAL PLAT APPROVAL GRADING PLAN X BUILDING PERMIT APPROVAL BROSION CONTROL PLAN POUNDATION PERMIT APPROVAL ENGINEER'S CERTIFICATION CERTIFICATE OF OCCUPANCY APPROVAL ROUGH GRADING PERHIT APPROVAL May 11, 1989 GRADING/PAVING PERMIT APPROVAL

Frank D. Lovelady, P.E.

Rev. 11/84

the contraction of the contracti

103

OTHER

(SPECIFY)



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

May 18, 1989

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

RE: DRAINAGE PLAN FOR A FOUR-PLEX APARTMENT BUILDING

(K-16/D36) REVISION DATED MAY 12, 1989

Dear Mr. Lovelady:

Based on the information provided on your submittal of May 11, 1989, the above referenced plan is approved for Building Permit.

Please be advised that a separate permit is required for construction within City right-of-way. A copy of this approval letter will be needed when applying for the excavation permit.

Please attach a copy of this plan to the construction sets prior to sign-off by Hydrology.

If I can be of further assistance, please feel free to call me at 768-2650.

Cordially,

Bernie J. Montoya, C.E.

Engineering Assistant

xc: Becky Sandoval

BJM/bsj (WP+1103)

CITY OF ALBUQUERQUE

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY 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 STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986.
- 3. TWO (2) 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_____ RESIDENTIAL STREET USE.
- 6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
- 211 PRINCETON SE 7. THE ADDRESS OF THE PROPERTY SERVED IS

APPROVALS: HYDROLOGY	Turner Mosty	5/15/89
hibkologi	(NAME)	(DATE)
INSPECTOR	-	
- Month of the Control of the Contro	(NAME)	(DATE)
CONSTRUCTION		
Special Control of the Control of th	(NAME)	(DATE)

ASPHALT PAVEMENT

EXIST. CMU WALLT

LOT 5

LOT 6

Accommission of the same and same accommission of the same and same accommission of the same acc

LOT 7

PRE-DESIGN CONFERENCE RECAP:

EXISTING

FOUR-PLEX APARTMENT BUILDING

FIN.FLR. = 5178.80

LOT

UNIT 3

UNIT 4

CONTOUR

FL FLOW LINE

- 1. DRAINAGE PLAN PER D.P.M. GUIDELINES REQUIRED PRIOR TO BUILDING PERMIT RE-
- 2. FREE DISCHARGE TO PRINCETON IS ACCEPTABLE.
- 3. FREE DISCHARGE TO ALLEY IS ACCEPTABLE IF ALLEY IS PAVED AND HAS CAPACITY ALL THE WAY TO MAIN STREETS. PROVIDE VERIFICATION WITH DRAINAGE SUBMIT-
- 4. APPROVED ALLEY GRADES ARE REQUIRED TO COMPARE WITH SITE GRADES.
- 5. ALLEY FLOWS ARE FROM SOUTH TO NORTH.
- 6. IDENTIFY ANY OFF-SITE FLOWS ENTERING THE SITE.

RESPONSE TO PRE-DESIGN CONFERENCE FINDINGS:

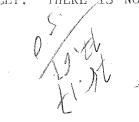
- 1. THE D.P.M. GUIDELINES WERE USED IN PREPARATION OF THIS GRADING AND DRAIN-AGE PLAN.
- 2. THE SITE HAS BEEN GRADED TO DRAIN MOSTLY TO PRINCETON DRIVE TO MINIMIZE DISCHARGE TO THE ALLEY.
- 3. THE AMOUNT OF FLOW DESCHARGING TO THE ALLEY WILL BE REDUCED AFTER DEVEL-OPMENT. THE ALLEY IS PRISENTLY PAVED.
- 4. APPROVED ALLEY GRADES ARE PER CITY PROJECT P-124-78. ONLY CENTERLINE GRADES ARE SHOWN ON THE FLAN AND PROFILE AND THERE IS NO TYPICAL SECTION.
- 5. FIELD ELEVATIONS CONFIRM THAT ALLEY FLOWS ARE FROM SOUTH TO NORTH.
- 6. THERE ARE NO OFF-SITE FLOWS ENTERING THE SITE. ALL LOTS DRAIN EITHER TO PRINCETON OR THE THE ALLEY: THERE IS NO SIGNIFICANT CROSS-LOT-LINE DRAINAGE.

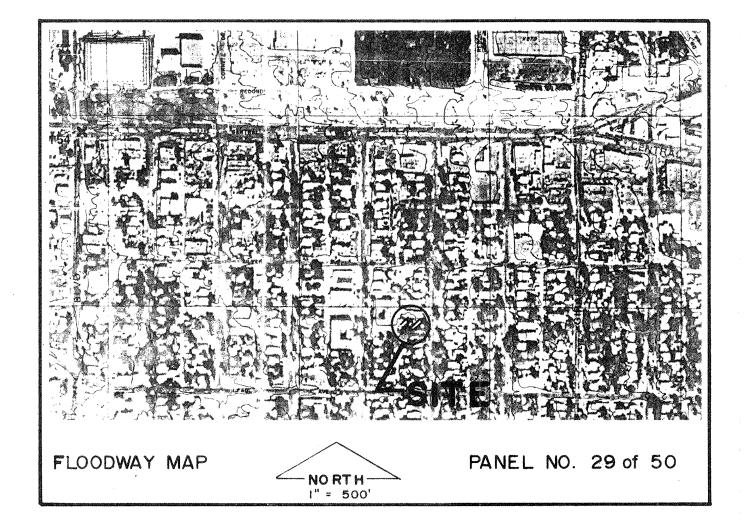
RESIDENCE

UNIT

FLR. = 5179.25

LEAN-TO GREENHOUSE





LEGAL DESCRIPTION:

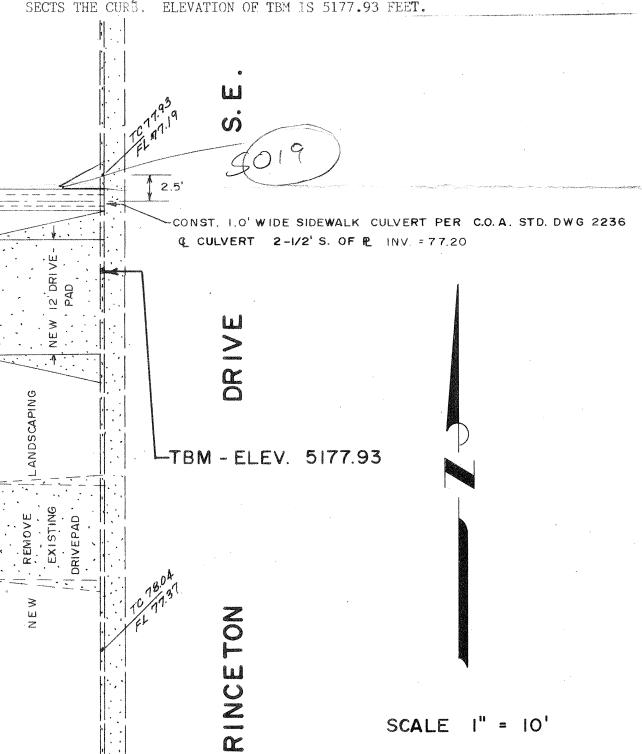
LOT NUMBER 19 IN BLOCK NUMBER 18, UNIVERSITY HEIGHTS ADDITION.

BENCH MARK:

ACS STATION 13-K16 LOCATED AT THE INTERSECTION OF LEAD AVE. AND GIRARD BLVD. THE STATION IS A 31 ALUMINUM TABLET SET IN A DRILL HOLE FLUSH WITH THE TOP OF CURB. STATION IS STAMPED "ACS, 13-K16, 1984". ELEVATION IS 5187.389 FEET.

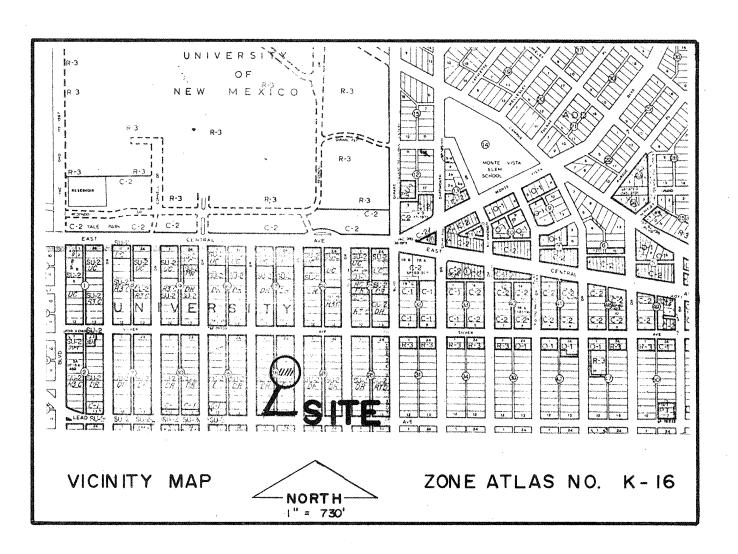
TEMPORARY BENCH MARK:

A SQUARE AND LETTERS "TBM" PAINTED ON TOP OF CURB WITH BLACK PAINT AT APPROX-IMATELY 10' SOUTH OF THE POINT THAT THE NORTH PROPERTY LINE EXTENDED INTER-



EROSION CONTROL PLAN:

DURING CONSTRUCTION OF THE BUILDING, ALL RUNOFF FROM THE SITE SHALL BE CON-TAINED BY THE USE OF A POND, BERM, OR OTHER SUITABLE CONTAINMENT FROM WHICH SEDIMENT-FREE WATER SHALL BE RELEASED AT A CONTROLLED RATE. ALL SEDIMENT SHALL BE SETTLED OR FILTERED OUT BEFORE RELEASING THE WATER TO THE PUBLIC



DRAINAGE CALCULATIONS

SOIL INFORMATION: (REFER TO SCS SOIL SURVEY OF BERNALILLO COUNTY.) SOIL ISWeB, WINK-EMBUDO COMPLEX, HYDROLOGIC SOIL GROUP "B". RAINFALL, 100-YEAR, 6-HOUR: (REFER TO D.P.M., PLATE 22.2 D-1) $R_6 = 2.25$ INCHES.

TIME OF CONCENTRATION: (REFER TO D.P.M. SECTION 22.2, PAGE 3) TEN (10) MINUTES, MINIMUM TIME OF CONCENTRATION.

RAINFALL INTENSITY: (REFER TO PLATE 22.2 D-2) $I = R_6 \times 6.84 \times Tc^{-0.51} = 2.25 \times 6.84 \times (10)^{-0.51} = 4.76 \text{ INCHES PER HOUR.}$

CURVE NUMBERS: (REFER TO D.P.M. PLATE 22.2 C-2)

EXISTING PERVIOUS BUILDINGS AND PAVEMENT LANDSCAPING UNPAVED GRAVEL UNPAVED DIRT	CN 70 98 61 85 82	EXISTING AREA 1097 400 2241 3362	NEW AREA 6185 365 550
TOTAL AREAS		7100 = 0.163 AC	7100
WIEGHTED CURVE NUMBER (CNW):			
EXISTING CN _W = 84 DEVELOPED	$CN_W = 95$		
DIRECT RUNOFF: (REFER TO D.P.M	. PLATE 22.2	C-4)	
EXISTING $Q_D = 0.95$ DEVELOPED	$Q_{\rm D} = 1.75$		entre la companya de la companya de La companya de la co

	"C"	EXISTING AREA	NEW ARE
UNDEVELOPED	0.40	5603	550
LAWNS AND LANDSCAPING	0.25	400	365
ROOFS	0.90	1097	3325
STREETS, DRIVES, WALKS	0.95		2860

RUNOFF COEFFIEIENTS: (REFER TO "NOTICE OF EMERGENCY RULE",

TOTAL AREAS WEIGHTED "C" FACTORS: EXISTING "C" = 0.47 DEVELOPED "C" = 0.85EXISTING CONDITIONS:

RUNOFF BY RATIONAL EQUATION, Q = CIA $Q = 0.47 \times 4.76 \times 0.163 = 0.36 \text{ CFS}$

VOLUME BY SCS METHOD, $V = A(Q_D/12)$, WHERE A = AREA IN SQUARE FEET. V = 7100 (0.95/12) = 562 CF

DEVELOPED CONDITIONS:

Q = 0.85 X 4.76 X 0.163 = 0.66 CFS

$V = 7100 (1.75/12) \times 1035 CF$ DRAINAGE TO ALLEY:

EXISTING CONDITIONS: THE WESTERLY 85% OF THE SETE NOW DRAINS TO THE ALLEY OR $0.85 \times 0.36 = 0.31 \text{ CFS}$

DEVELOPED CONDITIONS: THE WESTERLY 32' OF THE SITE WILL DRAIN TO THE ALLEY. Q = 0.95 X 4.76 (1600/43560) = 0.17 CFS. THEREFORE, THE AMOUNT OF RUNOFF DISCHARGING TO THE ALLEY WILL BE REDUCED BY DEVELOPMENT.

REVISED MAY 12, 1989



GRADING AND DRAINAGE PLAN FOUR - PLEX APARTMENT BUILDING 211 PRINCETON DRIVE, S.E. ALBUQUERQUE, NEW MEXICO

