FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 3, 1990

Louis Gross, P.E.
Louis Gross & Associates, Inc.
925 Sixth Street, NW
Albuquerque, New Mexico 87103

RE: REVISED DRAINAGE PLAN FOR A WAREHOUSE - TRACT 15-A1, BLOCK 3
MAYO & ROSS ADDITION (J-14/D87) REVISION DATED MARCH 21, 1990

Dear Mr. Gross:

Based on the information provided on your resubmittal of March 21, 1990, the above referenced plan is approved for Building 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,

for Bernice J. Montaya
Fred J. Aguirre, P.E.
Hydrologist

FJA:BJM/bsj
(WP+1604)

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Drainage plan ZONE ATLAS/DRNG. FILE #: J-14 / D87

DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: TR 15 A-1 Blk 3 Mayo Ross Addn

CITY ADDRESS: 828 Arno NE

ENGINEERING FIRM: Lou Cross + Assoc CONTACT: Frank Wilson

ADDRESS: 925 - 6th St NW PHONE: 247-4444

OWNER: Frank Wilson CONTACT: Frank Wilson

ADDRESS: 333 Lomas NE PHONE: 247-4444

ARCHITECT: Roger Cirelli CONTACT: "

ADDRESS: _____ PHONE: _____

SURVEYOR: South west Surveyors CONTACT: "

ADDRESS: _____ PHONE: _____

CONTRACTOR: Frank Schultz CONTACT: _____

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

- ____ DRAINAGE REPORT
- ✓ DRAINAGE PLAN
- ____ CONCEPTUAL GRADING & DRAINAGE PLAN
- ____ GRADING PLAN
- ____ EROSION CONTROL PLAN
- ____ ENGINEER'S CERTIFICATION
- ____ OTHER

PRE-DESIGN MEETING:

- ____ YES
- ____ NO
- ____ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

- ____ SKETCH PLAT APPROVAL
- ____ PRELIMINARY PLAT APPROVAL
- ____ S. DEV. PLAN FOR SUB'D. APPROVAL
- ____ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ____ SECTOR PLAN APPROVAL
- ____ FINAL PLAT APPROVAL
- ✓ FOUNDATION PERMIT APPROVAL
- ✓ BUILDING PERMIT APPROVAL
- ____ CERTIFICATE OF OCCUPANCY APPROVAL
- ____ GRADING PERMIT APPROVAL
- ____ PAVING PERMIT APPROVAL
- ____ S.A.D. DRAINAGE REPORT
- ____ DRAINAGE REQUIREMENTS
- ____ OTHER _____ (SPECIFY)

RECEIVED
MAR 21 1990
HYDROLOGY DIVISION

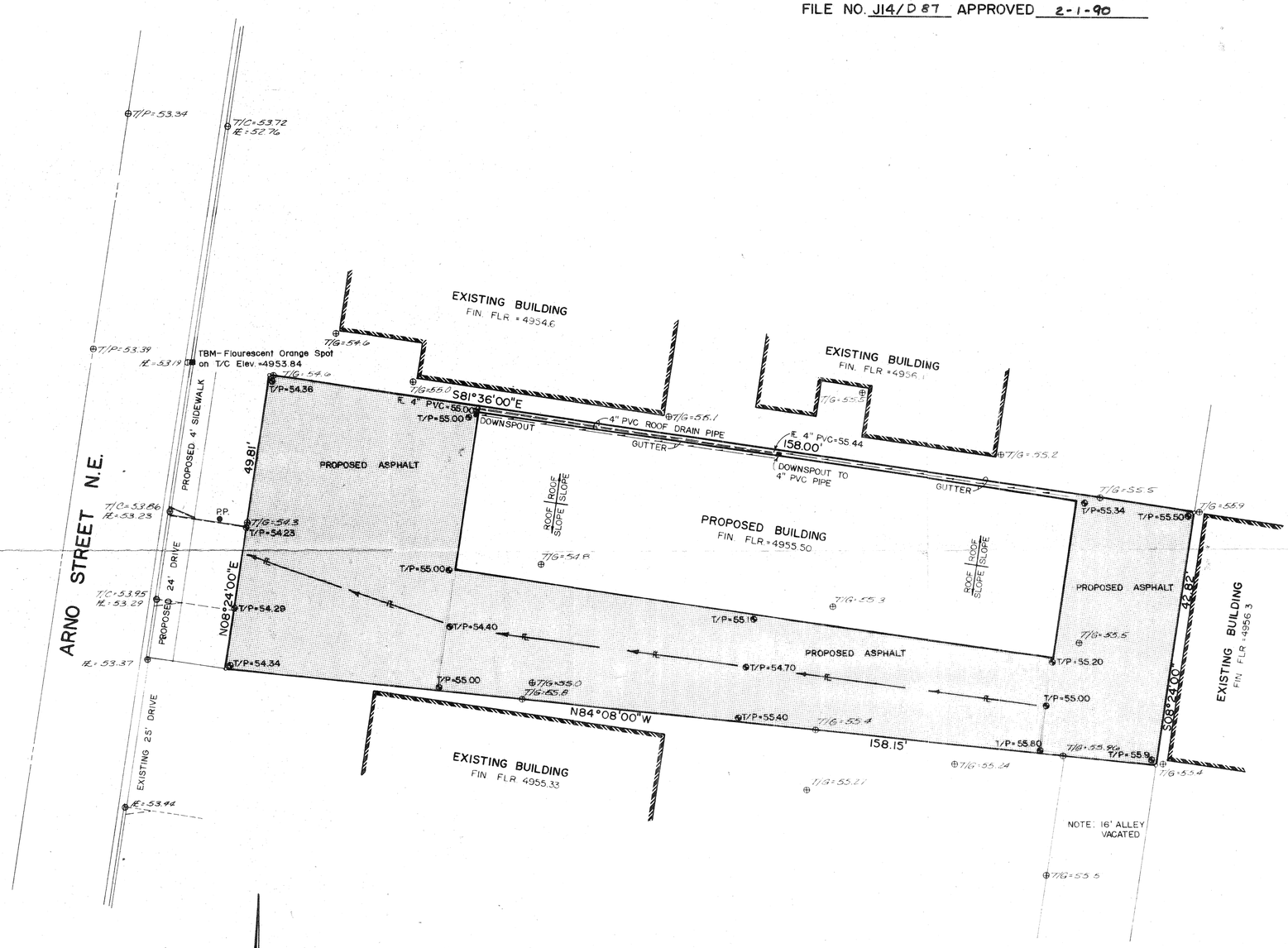
DATE SUBMITTED: 3/

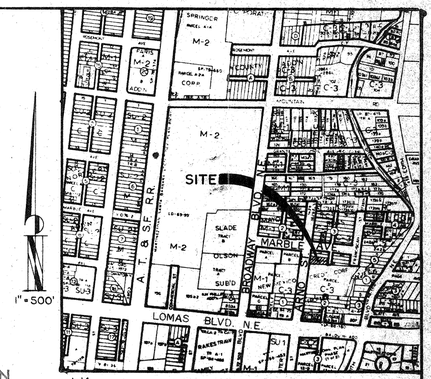
BY: Frank Wilson

DRAINAGE PLAN

TRACT 15-A1, BLOCK 3, MAYO & ROSS ADDITION
ALBUQUERQUE, N.M.

ZONE MAP J-14 BENCHMARK 5-J15 ELEV.= 4967.34
FLOOD ZONE MAP NO. 28 SOIL TYPE A
FILE NO. J14/D87 APPROVED 2-1-90





VICINITY MAP

HYDROLOGY APPROVAL & INSPECTION

APPROVED FOR BUILDING PERMIT
ENGINEER Barry Montoya DATE 3/21/90
INSPECTION REQUESTED DATE
APPROVAL DATE DISAPPROVED
S019 APPROVAL DATE
SURVEY DATE
HYDROLOGY BOOK NO./PAGE NO.
SURVEYED BY
COMMENTS

HYDROLOGY

100 yr - 6 hr = 2.2 in I = 2.2 * 6.84 / 3.24 = 4.64 in / hr

Existing

Area = 7,318 sf = 0.168 ac

100 % natural ground. C = 0.45

Q = 0.45 * 4.64 * 0.168 = 0.35 cfs

CN = 65 Direct run off = 0.20 in

V = 0.20 / 12 * 7,318 = 122 cf

Site presently drains to Arno St. N.E.

Proposed

Roof	2,754 * 0.90 =	2,479
Asphalt	4,564 * 0.95 =	4,336
	7,318	6,815

C = 6,815 / 7,318 = 0.93

Q = 0.93 * 4.64 * 0.168 = 0.72 cfs

CN = 95 Direct Run Off = 1.7 in

V = 1.7 / 12 * 7,318 = 1,037 cf

Site will drain through proposed driveway to Arno St. N.E.

Check capacity of 4" roof drain pipe.

A = 1,377 sf = 0.032 ac For roof, C = 0.90.

Q = 0.90 * 4.64 * 0.032 = 0.13 cfs

4" pipe @ S = 0.005 $S^{0.5}$ = 0.07

A = 0.087 P = 1.05 R = 0.083 $R^{0.667}$ = 0.19

Q = 0.087 * 1.486 / 0.013 * 0.19 * 0.07 = 0.13 - OK

Conclusions

The tract is located within an infill area. The increase in peak flow of 0.37 cfs and the increase in volume of 915 cf is minor compared the basin that the site is in.

LEGEND

*Property line	
Existing contours	4930
Proposed contours	4925
Flow direction	
Existing spot elevations	⊕
Proposed spot elevations	⊕
Top of ground	T/G
Top of pavement	T/P
Top of concrete	T/Conc.
Top of curb	T/C
Flowline Gutter or swale	FL

*A property boundary survey was not performed in the preparation of this plan.

EROSION CONTROL NOTES

The contractor shall be responsible for compliance of the following:

1. No sediment bearing water shall be allowed to discharge from the site during construction.
2. During grading operations and until the project has been completed all adjacent property, rights of way and easements shall be protected from flooding.
3. Any and all sedimentation originating from the site which is deposited within public right of way shall be promptly removed by the contractor.
4. Control of sediment laden waters will be accomplished by use of a compacted earth berm of adequate height shall be located along the downstream perimeter of the property.

James W. Lewis 1/24/90

REVISED 3/21/90

RECEIVED
MAR 21 1990
HYDROLOGY DIVISION

LOUIS GROSS & ASSOC., INC.
Consulting Civil Engineers
925 6th Street N.W., Suite 3
Albuquerque, N.Mex. 87102
(505) 243-6353

File Nº 510
Date JAN., 1990
Drawn C.L.L.
Sheet 1 of 1