

CITY OF ALBUQUERQUE, N.M.

PROJECT TITLE: Paving-American Legion ZONE ATLAS/DRNG. FILE #: K11/P51

LEGAL DESCRIPTION: Tract 2, Bandoni Tracts

CITY ADDRESS: 5105 Central N.W.

ENGINEERING FIRM: Louis Gross & Assoc. Inc. CONTACT: Louis Gross

ADDRESS: 925 Sixth St. N.W. PHONE: 243-6353

OWNER: Don Moyer CONTACT: Don Moyer

ADDRESS: 523 Lomas Blvd N.E. PHONE: 243-1605

ARCHITECT: N/A CONTACT: _____

ADDRESS: _____ PHONE: _____

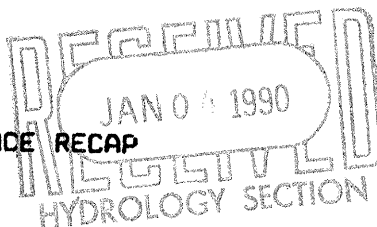
SURVEYOR: Louis Gross & Assoc. Inc. CONTACT: Louis Gross

ADDRESS: 925 Sixth St. N.W. PHONE: 243-6353

CONTRACTOR: Star Paving CONTACT: Joe Cruz

ADDRESS: P.O. Box 12333 PHONE: 877-0380

PRE-DESIGN MEETING:

☐ YES☒ NO☐ COPY OF CONFERENCE RECAP
SHEET PROVIDED

DRB NO. _____

EPC NO. _____

PROJ. NO. _____

TYPE OF SUBMITTAL:

☒ DRAINAGE REPORT☒ DRAINAGE PLAN☐ CONCEPTUAL GRADING & DRAINAGE 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☐ BUILDING PERMIT APPROVAL☐ FOUNDATION PERMIT APPROVAL☐ CERTIFICATE OF OCCUPANCY APPROVAL☐ ROUGH GRADING PERMIT APPROVAL☒ GRADING/PAVING PERMIT APPROVAL☐ OTHER _____ (SPECIFY)DATE SUBMITTED: 1/3/90

BY: _____

Louis W. Gross

FILE COPY



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

January 12, 1990

Louis Gross, P.E.
Louis Gross & Associates, Inc.
925 Sixth Street, NW Suite #3
Albuquerque, New Mexico 87103

RE: GRADING/PAVING PLAN FOR PAVING @ AMERICAN LEGION
5105 CENTRAL AVENUE, NW (K-11/D51)
ENGINEER'S STAMP DATED JANUARY 3, 1990

Dear Mr. Gross:

Based on the information provided on your submittal of January 4, 1990, the referenced plan is approved for Grading/Paving and S.O. #19.

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

Upon completion of the referenced site, a request for inspection must be called in. Please give the file number when the inspection is requested.

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

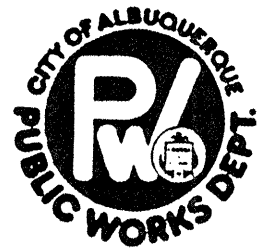
Cordially,

Bernie J. Montoya, C.E.
Engineering Assistant

xc: Darlene Saavedra

BJM/bsj
(WP+1566)

**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT**




INTER-OFFICE CORRESPONDENCE

January 24, 1990

ENGINEERING GROUP

TO: Desiderio Salas; Street Maintenance Division

FROM: Fred J. Aguirre, Hydrologist; Engineering Group/PWD 

SUBJECT: PRIVATE DRAINAGE FACILITIES WITHIN PUBLIC RIGHTS-OF-WAY/EASEMENT
5105 CENTRAL AVENUE, NW (K-11/D51)

Transmitted herewith, is a copy of the approved drainage plan for the referenced project incorporating the S.O. #19 design.

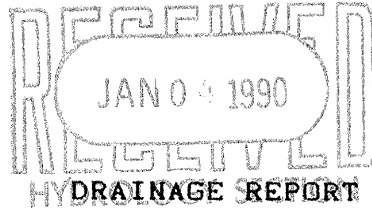
In accordance with the new process, this plan is being submitted to you for permitting and inspection. Please provide this section with a signed-off copy per the signature block upon construction and acceptance by your office.

As you are aware, the signed-off S.O. #19 is required by this office for Certificate of Occupancy release; hence your expeditious processing of this plan would be greatly appreciated and would avoid any unnecessary delay in the release of the Certificate of Occupancy.

Thank you for your cooperation, and if you should have any questions and/or comments regarding the process, please feel free to call me at 768-2650.

FJA/bsj

Attachment



Tract 2, Bandoni Tracts

Town of Atrisco Grant

5105 Central Avenue NW

Albuquerque, N. M.

January, 1990

Prepared by

Louis Gross & Associates, Inc.

925 Sixth St. N.W.

Albuquerque, N.M. 87102

Ph 243-6353



HYDROLOGY

$$100 \text{ yr} - 6 \text{ hr} = 2.2 \text{ in} \quad I = 2.2 * 6.84 / 3.24 = 4.64 \text{ in} / \text{hr}$$

$$\text{Area} = 24,454 \text{ sf} = 0.564 \text{ ac}$$

D.A. No. 1

$$\text{Area} - \text{on site} \quad 22,454 \text{ sf} = 0.515 \text{ ac}$$

$$\text{Area} - \text{off site} \quad 12,544 \text{ sf} = 0.288 \text{ ac}$$

$$\text{Total} \quad 34,998 \text{ sf} = 0.803 \text{ ac}$$

Existing

$$\text{Roof} \quad 5,432 * 0.90 = 4,889$$

$$\text{Asphalt} \quad 6,703 * 0.95 = 6,368$$

$$\text{Landscaped} \quad 979 * 0.25 = 245$$

$$\text{Natural Ground} \quad 21,884 * 0.40 = 8,754$$

$$\text{34,998} \quad \text{20,256}$$

$$C = 20,256 / 34,998 = 0.58$$

$$Q = 0.58 * 4.64 * 0.803 = 2.2 \text{ cfs}$$

$$CN = 70 \quad \text{Direct Run Off} = 0.30 \text{ in}$$

$$V = 0.30 / 12 * 34,998 = 875 \text{ cf}$$

Proposed

$$\text{Roof} \quad 5,432 * 0.90 = 4,889$$

$$\text{Asphalt} \quad 12,546 * 0.95 = 11,918$$

$$\text{Landscaped} \quad 979 * 0.25 = 245$$

$$\text{Natural Ground} \quad 16,041 * 0.40 = 6,416$$

$$\text{34,998} \quad \text{23,468}$$

$$C = 23,468 / 34,998 = 0.67$$

$$Q = 0.67 * 4.64 * 0.803 = 2.5 \text{ cfs}$$

$$CN = 75 \quad \text{Direct Run Off} = 0.70$$

$$V = 0.70 / 12 * 34,998 = 2,042 \text{ cf}$$

3 inches

HYDRAULICS

Channel & sidewalk culvert to Central Ave. (Sections A-A & B-B).

Entrance

$$Q = CLeH^{1.5} \quad C = 2.7, \quad L = 3.0, \quad Le = 3.0 - 0.10 * 0.50 = 2.9$$

$$Q = 2.7 * 2.9 * 0.50^{1.5} = 2.8 \text{ cfs} - \text{OK}$$

Barrel at 2.0 foot section

$$A = 1.0 \quad P = 3.0 \quad R = 0.33 \quad R^{0.67} = 0.48$$

$$@ S = 0.042 \quad S^{0.50} = 0.20$$

$$Q = 1.0 * 1.486 / 0.17 * 0.48 * 0.20 = 8.4 \text{ cfs} - \text{OK}$$

$$@ S = 0.020 \quad S^{0.50} = 0.14$$

$$Q = 1.0 * 1.486 / 0.017 * 0.48 * 0.14 = 5.9 \text{ cfs} - \text{OK}$$

Section C - C

Entrance

$$Q = CLeH^{1.5} \quad C = 2.7, \quad L = 3.0, \quad Le = 3.0 - 0.10 * 0.50 = 2.9$$

$$Q = 2.7 * 2.9 * 0.50^{1.5} = 2.8 \text{ cfs} - \text{OK}$$

Barrel control

$$A = 1.5 \quad P = 4 \quad R = 0.38 \quad R^{0.67} = 0.38$$

$$S = 0.051 \quad S^{0.50} = 0.23$$

$$Q = 1.5 * 1.486 / 0.017 * 0.52 * 0.23 = 15.7 \text{ cfs} - \text{OK}$$

D. A. No. 2

Existing

Area - on site	2,620 sf = 0.060 ac
Area - off site	1,505 sf = 0.035 ac

Total	4,125 sf = 0.095 ac

Roof	480 * 0.90 =	432
Asphalt	3,144 * 0.95 =	2,986
Natural Ground	501 * 0.40 =	200
	-----	-----
	4,125	3,618

$$C = 3,618 / 4,125 = 0.88$$

$$Q = 0.88 * 4.64 * 0.095 = 0.39 \text{ cfs through driveway to Central Avenue.}$$

$$CN = 90 \quad \text{Direct Run Off} = 1.2 \text{ in}$$

$$V = 1.2 / 12 * 4,125 = 413 \text{ cf}$$

Proposed

Roof	480 * 0.90 =	432
Asphalt	3,645 * 0.95 =	3,463
	-----	-----
	4,125	3,895

$$C = 3,895 / 4,125 = 0.95$$

$$Q = 0.95 * 4.64 * 0.095 = 0.42 \text{ cfs}$$

$$CN = 95 \quad \text{Direct Run Off} = 1.7 \text{ in}$$

$$V = 1.7 / 12 * 4,125 = 584 \text{ cf}$$

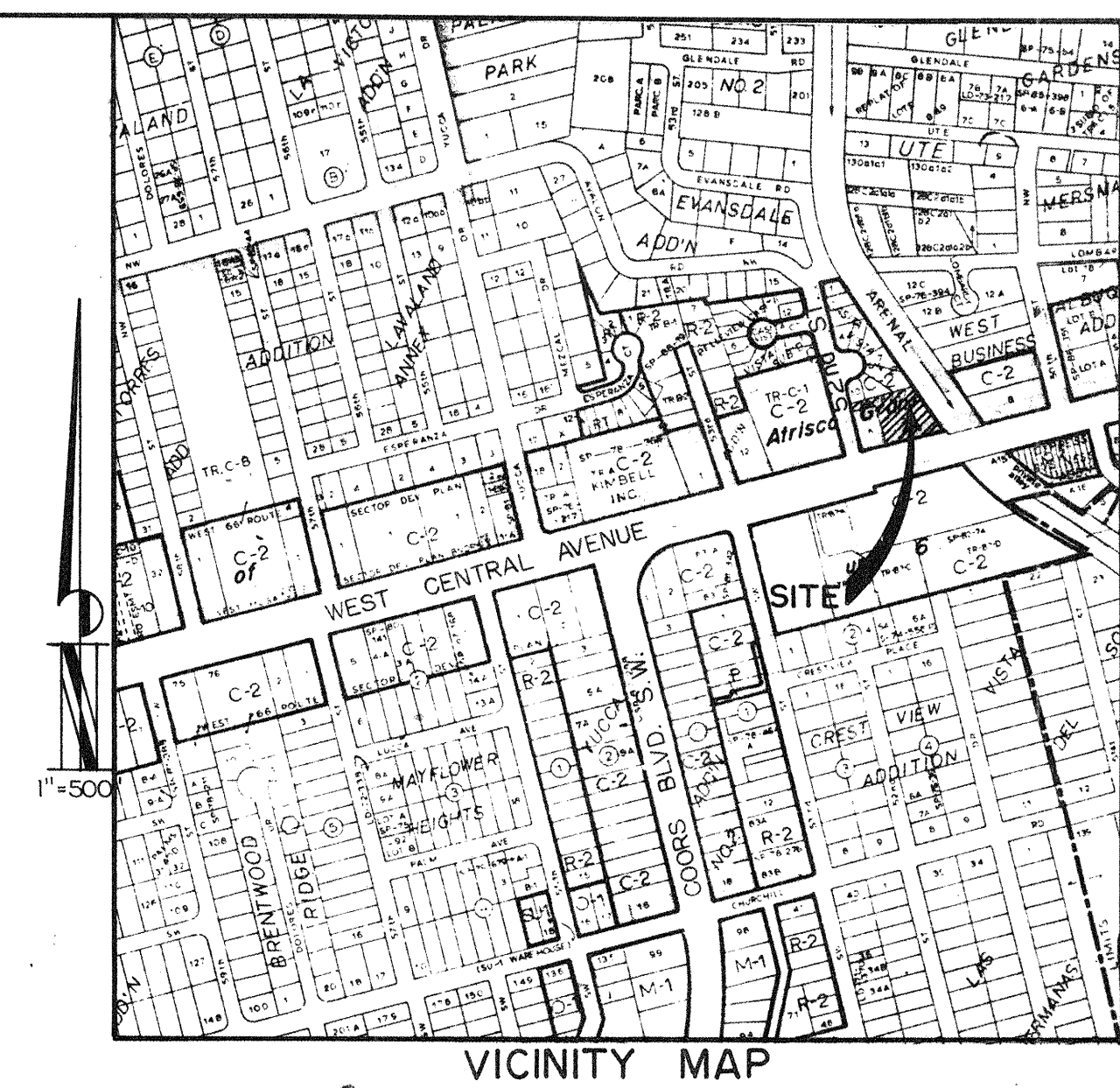
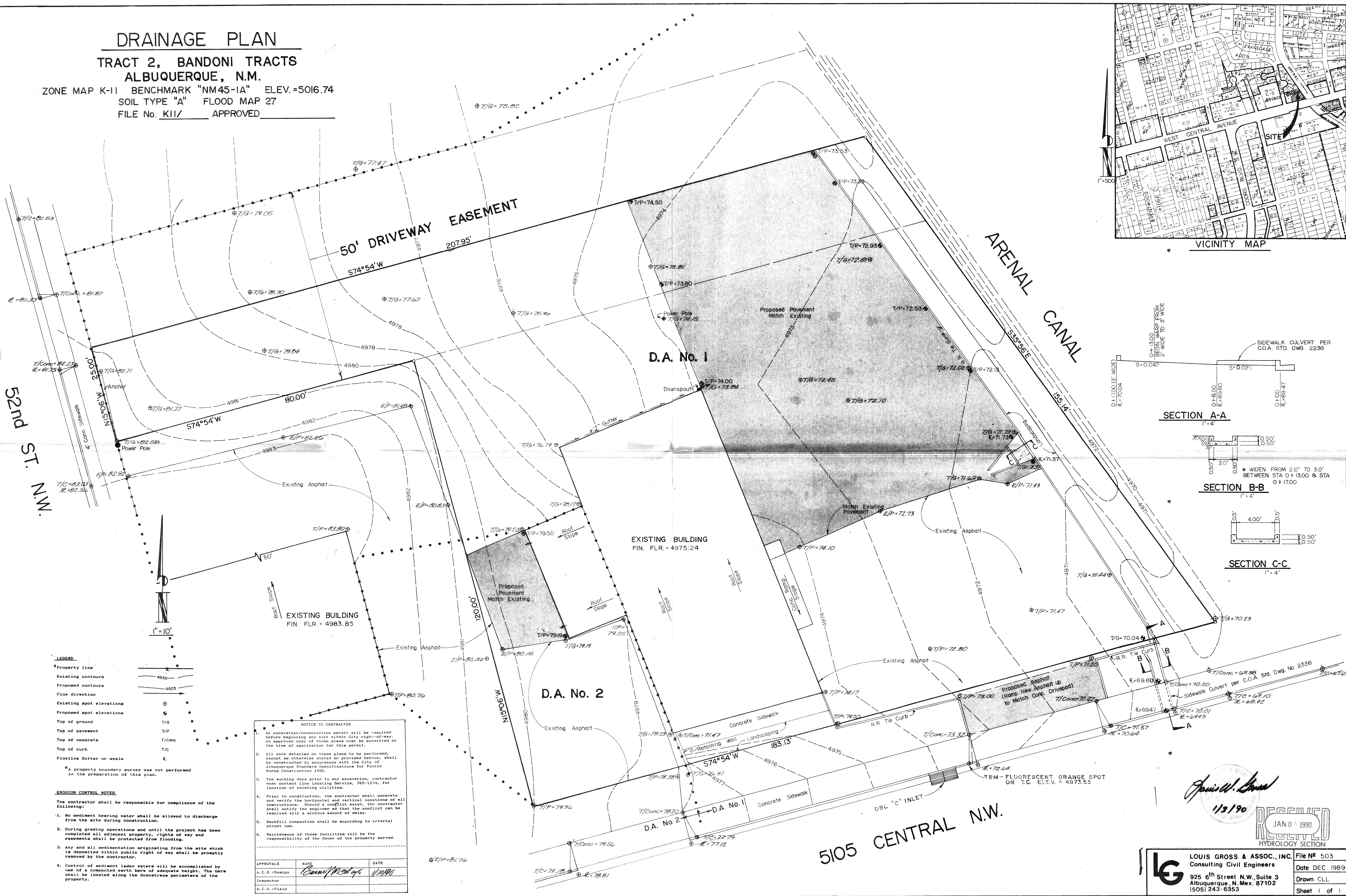
DRAINAGE PLAN

TRACT 2, BANDONI TRACTS
ALBUQUERQUE, N.M.

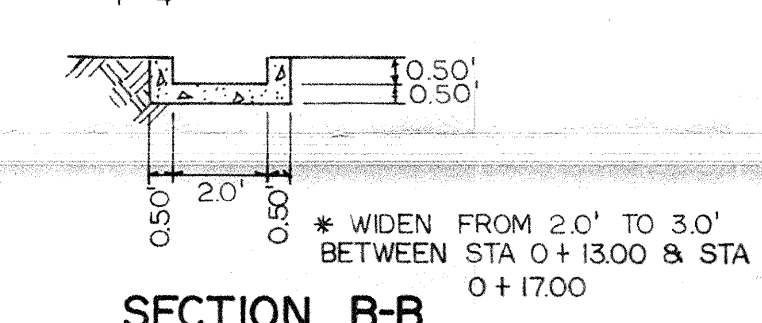
ZONE MAP K-11 BENCHMARK "NM45-1A" ELEV.=5016.74

SOIL TYPE "A" FLOOD MAP 27

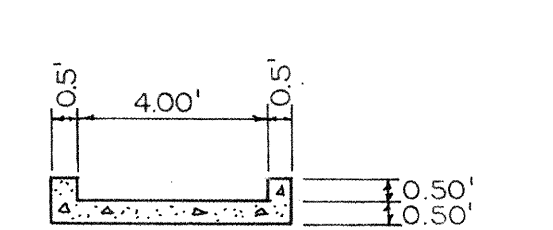
FILE No. K11/ APPROVED



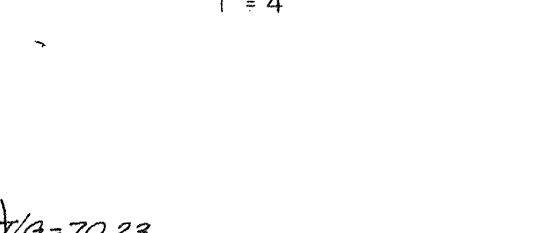
SECTION A-A



SECTION B-B



SECTION C-C



NOTICE TO CONTRACTOR

- 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.
- All work detailed on these plans to be performed, except as otherwise stated or provided herein, shall be constructed in accordance with the City of Albuquerque Standard Specifications for Public Works Construction 1986.
- Two working days prior to any excavation, contractor must contact Line Locating Service, 765-1214, for location of existing utilities.
- Prior to construction, the contractor shall excavate and verify the horizontal and vertical location 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.
- Backfill compaction shall be according to arterial street use.
- Maintenance of these facilities will be the responsibility of the Owner of the property served.

APPROVALS	NAME	DATE
A.C.E./Design	Camille M. M. M.	1/10/90
Inspector		
A.C.E./Field		

- LEGEND
- Property line
 - Existing contours
 - Proposed contours
 - Flow direction
 - Existing spot elevations
 - Proposed spot elevations
 - Top of ground
 - Top of pavement
 - Top of concrete
 - Top of curb
 - Flowline Gutter or avale

- EROSION CONTROL NOTES
- The contractor shall be responsible for compliance of the following:
 - No sediment bearing water shall be allowed to discharge from the site during construction.
 - During grading operations and until the project has been completed all adjacent property, rights of way and easements shall be protected from flooding.
 - Any and all sedimentation originating from the site which is deposited within public right of way shall be promptly removed by the contractor.
 - Control of sediment laden waters will be accomplished by use of a compacted earth berm of adequate height. The berm shall be located along the downstream perimeters of the property.

RECEIVED
JAN 04 1990
HYDROLOGY SECTION

LOUIS GROSS & ASSOC., INC. File No. 503
Consulting Civil Engineers
925 6th Street N.W., Suite 3
Albuquerque, N. Mex. 87102
(505) 243-6353

Date DEC 1989
Drawn C.L.L.
Sheet 1 of 1