PUBLIC WORKS/HYDROLOGY

E18/D45

# CITY OF ALBUQUERQUE
## CODE ADMINISTRATION DIVISION

PROPERTY OF CITY OF ALBUQUERQUE CODE ADMINISTRATION DIVISION

CONSTRUCTION ADDRESS 5516 ACADEMY ROAD NE

APPLICANT TO PROVIDE ALL INFORMATION BELOW:

TYPE OF APPLICATION:
- ☐ NEW BUILDING
- ☐ ADDITION
- ☐ ALTERATION
- ☐ REPAIR
- ☐ DEMOLITION
- ☑ OTHER

ALBUQUERQUE, N.M. BLDG. DEPT. JAN 1 8 1988 U.S.A. PLAN CHECK MACHINE

LEGAL DESCRIPTION:
LOT NO. TRACT-9 BLOCK NO. ___
SUBDIVISION Lowell Subdivision
TRACT ___ PARCEL ___ UNIT ___

OWNER: Juan A. Romero PHONE: 243-4111
ADDRESS: 1111 Park Ave. S.W.
Albuquerque, N.M. ZIP: 87104

ARCHITECT, ENGINEER OR DESIGNER: William Bentley PHONE: 255-3741
ADDRESS: 3625 Central N.E.
ZIP: ___

CONTRACTOR: Juan Romero PHONE: 243-4111
ADDRESS: 1111 Park Ave. S.W.
ZIP: 87104

STATE LICENSE NO. ___
STATE TAX NO. ___
CITY TAX NO. ___

CONSTRUCTION DATA:
NUMBER OF STORIES: ___
SQUARE FOOTAGE: ___
VALUATION OF WORK: $ 5000.00
NO. OF APT/HOTEL UNITS: N/A NO. OF BUILDINGS: N/A
OWNERSHIP: ☐ PRIVATE ☐ PUBLIC
DESCRIPTION OF WORK: Retaining wall only

BUILDING USE:
- ☐ PUBLIC (BUILT WITH/PUBLIC FUNDS)
- ☐ COMMERCIAL
- ☐ TRIPLEX
- ☐ FOURPLEX
- ☐ APARTMENT COMPLEX GREATER THAN FOUR UNITS
- ☐ FOUNDATION ONLY

DATE January 19, 1988

Plan Check (Application) No. 8800884
Plan Check (Application) Fee $ 20.00 Adjusted $ ___
Valuation of Work $ 5000.00
Building Permit No. 8800 8586
Building Permit Fee $ 20.00

Certificate of Occupancy Required? ☐ Yes ☑ No

Approval Required Prior to Issuance of Certificate of Occupancy:

| City Agency | Yes or No | Initial | Date |
|---|---|---|---|
| BOILER | | | |
| ELECTRICAL | | | |
| ELEVATOR | | | |
| ENVIRONMENTAL HEALTH | | | |
| FIRE MARSHAL | | | |
| HYDROLOGY | | | |
| MECHANICAL | | | |
| PLUMBING | | | |
| REFUSE | | | |
| TRANSPORTATION DEVELOPMENT | | | |
| UNIFORM BUILDING CODE | No | VB | 1-21-88 |
| ZONING | N/A | RB | 1-19-88 |

CITY ENGINEER

Address based on information furnished by Requestor

This ONE E-18

Provide ☐ 6' sidewalk set to ☐ curb ☐ 6' ☐ property

In accordance with Sidewalk Ordinance

For None By [signature]

Uniform Property Code: ___

## GENERAL NOTES

1. Plans and specifications must be kept at building or work site at all times during which the work authorized thereby is in progress.
2. City approved street and alley top of curb elevations shall be used when establishing lot grades at front and rear property lines. Should these approved elevations not be used, the City assumes no responsibility for loss of access to property or damage to property lies with upon construction of street and alley curb-gutter-paving.
3. Separate permits are required for plumbing, gas and electrical work.
4. The issuance of this building permit does not constitute a guarantee of water and sanitary sewer service. Such availability is determined by the Engineering Division, Public Works Department, Utility Development Division. 505-768-2775 Construction hydrant shall be placed at least 10 feet away from excavation.
5. Setbacks walls or fences on private or public property shall not swing over sidewalk, street, alley or R.O.W. (Public).
6. For retaining wall and fence permits are required.
7. For foundation only permits additional plans must be submitted for approval before plumbing or electrical work is started in building stub. Include Uniform Building Code construction type on submittal.

ZONING:

1. Pave and appropriately mark parking spaces per City standards (Zoning Ord.) or as may not be placed in required spaces). Alley must be paved per City standards before final inspection (Area Zoning Ordinance). Area lighting must be fixed per City standard, off-site hardware shall not be greater than 1000 candlepower; it shall not be greater than 500 candlepower measured from private property in a residential zone.
2. Solar Protection: All construction on this site shall be in compliance with the solar regulations of the City Zoning Code. The City approval of this document is not assurance that it complies with any private solar rights which may be recorded with the Bernalillo County Clerk.

UNIFORM BUILDING CODE:

1. In every residential sleeping room, one window with 5.7 S.F. net clear openable area with minimum net clear opening height of 24", minimum net clear opening width of 20", and finished sill height not more than 44" above the floor is required.
2. Exhaust fans and/or vents to be connected directly to the outside.
3. Fireplaces to comply with UBC Table 43B.
4. Pre-fab fireplaces must have listed manufacturers installation instructions at the job site, UBC Sec. 3707 (a).
5. All labeled doors to have labeled frames and closers UBC Sec. 4306 (b).
6. Glass glazing to comply with Federal Standard No CPD-635. Float panel glazing to comply with Table 47-B UBC.
7. Suspended Ceiling Framing System to Comply with Table 23-J. See UBC Standard 47.302 (c).
8. All spa, pool & fixtures in rated ceilings to be protected per UBC or approved tests.
9. Share walls require protected openings, pipe penetrations and electrical outlet box installation shall comply with UBC Sec. 4304 (c).
10. Regardless of the crossout load, there shall be a floor or landing on each side of a door. The floor or landing shall be not more than 1/2 inch lower than the threshold of the doorway. UBC Sec. 3304 (b).
11. Landings at doors shall have a width not less than the width of the door. Landings shall have a length measured in the direction of travel of not less than 44 inches. UBC Sec. 3304 (i).

UNIFORM PLUMBING, MECHANICAL, ELECTRICAL CODES:

1. Water heaters, heating and cooling equipment, including a gas or flame capable of igniting flammable vapors, and ignition sources located in a garage, provided the pilot and burners or ignition devices are elevated not less than 18 inches above the floor level.
2. Materials exposed within circulating air ducts in other than dwelling units shall have a flame spread rating of not more than 25 and a smoke developed rating of not more than 50.
3. Provide ground fault protection on all bathrooms, garage and exterior electrical outlets.
4. Fuel piping shall conform to Section 680.6 NEC and Section 3B-C-8 NEIC.
5. Do not locate building under power line.
6. Sanitary facilities must be provided on each construction job.

ENVIRONMENTAL HEALTH

1. All records for all food service establishments, swimming pools, and other products related to Environmental Health must be submitted to Environmental Health for Review. Contact Environmental Health, Phone (505) 764-1693 to determine if project is related to Environmental Health.
2. Permit for demolition of structures in excess of 75,000 cubic feet shall be obtained from Environmental Health.

## 1. ZONING REFUSE

505- 764-1670

city zone C3 county ___ use Retaining Wall lot acreage ___

Municipal Refuse Collection Ordinance 43-1986

Notes:
1. Caution on location of structure: City approval is contingent upon correct information being received from the contractor or owner. Zoning approval is given for a structure sited exactly as specified on these plans. The front setback is measured from the lot line, which is not necessarily the curb or the edge of the sidewalk.
2. Park Development Fee (Park Dedication and Development Ordinance No. 7-1978, Article XVIII, Chapter 7, Sections 3A. and 3B.), CR 461611-713001.
3. The Albuquerque Refuse Service should be contacted at least (30) days prior to occupancy to start service.
4. Each customer shall provide their own container(s).
5. This building(s) is required to have a final inspection by the Refuse Division. The refuse container required shall be in place prior to the Certificate of Occupancy being issued.
6. Inspection required before pouring concrete slab or apron by the Albuquerque Refuse Department.

Proposed construction complies with Albuquerque Comprehensive Zoning Ordinance, and the Albuquerque Municipal Refuse Collection Ordinance.

NAME

PLANS DISAPPROVED ___ DATE ___
PLANS APPROVED [signature] DATE 1-19-88

(INDICATE CONSTRUCTION ORDINANCE SECTION REFERENCE) PLANS CORRECTIONS REQUIRED:

## 2. HYDROLOGY

505- 766-1899 ; 768-2650

Notes:
1. Advise Drainage Inspector when grading is executed.
2. Any deletions or modifications to approved drainage plans must receive prior approval from City Hydrology prior to final inspection.

NAME

PLANS DISAPPROVED ___ DATE ___
PLANS APPROVED ___ DATE ___

PLAN CORRECTIONS REQUIRED:

(INDICATE CONSTRUCTION ORDINANCE SECTION B: ___)

BUILDING PLANS REJECTED FOR THE FOLLOWING REASONS:

( ) Drainage Report/Plan required for original construction and modifications and/or additions to existing structures of 500 square feet or more. See Section 12 B of the City's Drainage Ordinance.
NOTE: Recommend a pre-design meeting with this office prior to putting pen to paper, please contact this office for an appointment.

( ) Follow procedures for drainage submittal as outlined in Page 101, Sec. 22.7 volume 2 of the City's Development Process Manual.

( ) Attach copies of the approved Drainage Plan/Report to the Building Plans.

( ) Attach signed copies of the "Private Storm Drain Facilities within City Right-of-Way" document to the Building Plans.

( ) Pending approval of Drainage Plan/Report submitted.

FLOOD HAZARD ORDINANCE CERTIFICATION

☐ This site is in Flood hazard zone ___ (COMMENT: ___)
☐ The improvements must be in compliance with city ordinance 99-1981. The floor plate elevation is ___. The finish floor elevation shall be ___. Separate Certification shall be required by the City Engineer prior to final inspection (call 768-7664).
☐ OTHER: ___
☐ APPROVED: ___ ☐ DISAPPROVED: ___

NOTE: Separate certification form may be obtained from the City Engineer's office upon request.

## 3. TRANSPORTATION DEVELOPMENT

505- 764-1646 ; 768-2680

- ☐ Overwidth curb cut
- ☐ Underwidth curb cut
- ☐ Too near corner
- ☐ Insufficient standing curb
- ☐ No curb cuts shown
- ☐ Insufficient Set Back
- ☐ Too near property line

NAME

PLANS DISAPPROVED ___ DATE ___
PLANS APPROVED ___ DATE ___

PLAN CORRECTIONS REQUIRED:

(INDICATE CONSTRUCTION ORDINANCE SECTION REFERENCE)

## 4. ENVIRONMENTAL HEALTH

505- 764-1693

Notes:
1. Control dust and debris during construction.
2. Top soil disturbance permit: ☐ Required ☐ Not Required
Top soil permit issued by ___ DATE ___
3. Noise ordinance is applicable.

NAME

PLANS DISAPPROVED ___ DATE ___
PLANS APPROVED ___ DATE ___

PLAN CORRECTIONS REQUIRED:

(INDICATE CONSTRUCTION ORDINANCE SECTION REFERENCE)

## 5. FIRE MARSHAL

505- 764-1687

Notes: 1. All apartment, commercial and public buildings are required to have a final inspection by the Fire Marshal's Office before a certificate of occupancy is issued. The building(s) or space(s) shall be complete and ready to occupy.
2. Conditions, surrounding and arrangements to be in accordance with the Fire Prevention code regulations adopted by City ordinance.
3. All items listed below shall be installed in accordance with applicable fire codes prior to a building (or portion of a building) being occupied. In addition, an approved on site water supply shall be put in place before any combustible materials are delivered to the building site and all required fire hydrants shall be installed and operable before any building (or portion of the building) is occupied.

NAME OF BUILDING ___ STORE OR SPACE # ___
OCCUPANCY: ___
BUILDING PLANS FOR: NEW ☐ REMODEL EXISTING ☐ ADDITION ☐
CONSTRUCTION TYPE ___
FIRE FLOW REQUIRED ___ FIRE HYDRANTS REQUIRED ___ ATLAS PAGE # ___

NAME (INSPECTOR)

PLANS DISAPPROVED ___ DATE ___
PLANS APPROVED ___ DATE ___

PLANS CORRECTIONS REQUIRED:

(INDICATE CONSTRUCTION ORDINANCE SECTION REFERENCE)

## 6. UNIFORM BUILDING CODE

505- 764-1677

Notes:
1. Premises shall not be occupied until a Certificate of Occupancy has been issued, in accordance with Sec. 306, Albuquerque Uniform Administrative Code.
2. All windows and doors required to meet forced entry requirements shall bear identification indicating they conform to Ch. 41 of the New Mexico Uniform Building Code.

Description of Work Retaining wall only (No house or wall shown)
Size of Bldg. (Total) Sq. Ft. 125 Lin. Ft. Occupancy Group ___
Type of Construction ___ Year of Applicable UBC ___

NAME

PLANS DISAPPROVED [signature] DATE 1-19-88
PLANS APPROVED [signature] DATE 1-21-88

PLANS CORRECTIONS REQUIRED:

(INDICATE CONSTRUCTION ORDINANCE SECTION REFERENCE)

1. Provide 1 hr. wall rating (No house or wall shown) ~~[illegible]~~

## 7. UPC, UMC, NEC.

505- 764-1680

Notes:
1. Every furnace or water heater room shall have an opening or door and passageway thereto not less than 3 feet in width and large enough to permit removal of the largest furnace in such room. The furnace shall be installed so as to permit its removal without dismantling the piping or conduit and appurtenant valves or junction boxes.

NAME

PLANS DISAPPROVED ___ DATE ___
PLANS APPROVED ___ DATE ___

PLANS CORRECTIONS REQUIRED:

(INDICATE CONSTRUCTION ORDINANCE SECTION REFERENCE)

PLANS/PLATS ON FILE

FILE DESC: E18/D45

# PLANS/PLATS 3


CITY OF ALBUQUERQUE
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R# 25 DATE 3-15-92 OP ESP

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The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS115-1977)

DIRECTOR 11-15-92

NOTARY PUBLIC

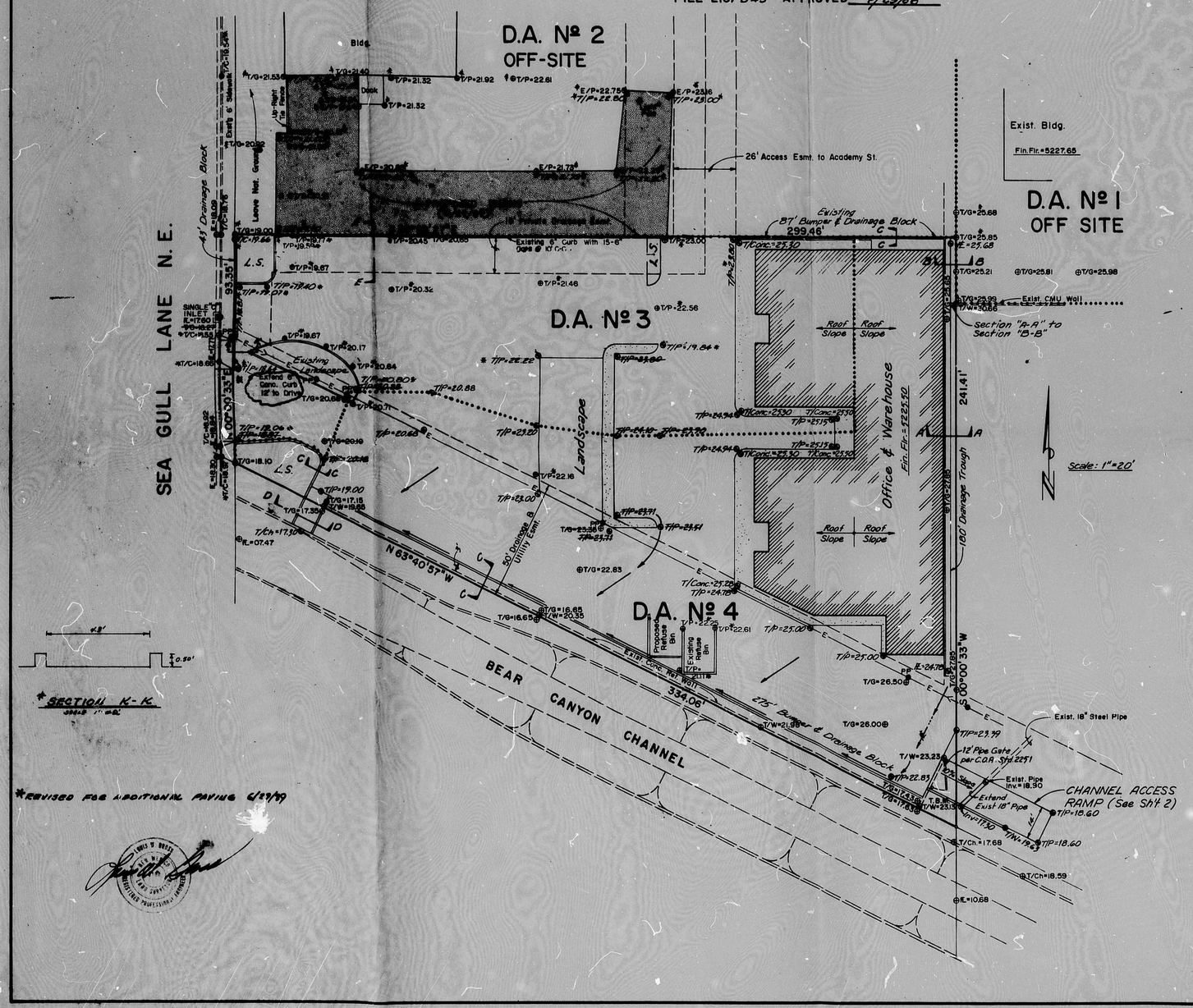
OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO

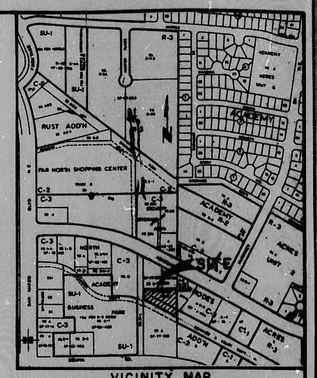

CITY OF ALBUQUERQUE

# DRAINAGE PLAN

## TRACT B-3
## LIMITED PARTNERSHIP TRACT

ZONE MAP E-18, BENCHMARK "1-E18A" ELEV.=5222.43
FLOOD MAP 17, SOIL TYPE "B"
FILE E18/D45 APPROVED 4/25/88




**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. The berm shall be located along the downstream perimeters of the property.

**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 |

*REVISED FOR ADDITIONAL PAVING 6/29/89

RECEIVED JUN 30 1989

LOGAN/GROSS & ASSOC., INC.
Consulting Civil Engineers
925 6th Street N.W., Suite 3
Albuquerque, N. Mex. 87102
(505) 243-8383

File № 342
Date: March, '88
Drawn LCG
Sheet 1 of 2

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON TAPE

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R# 25 DATE 3-15-92 OF 58P.

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DIRECTOR

NOTARY PUBLIC

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NOTARY PUBLIC
STATE OF NEW MEXICO
My Comm. Expires

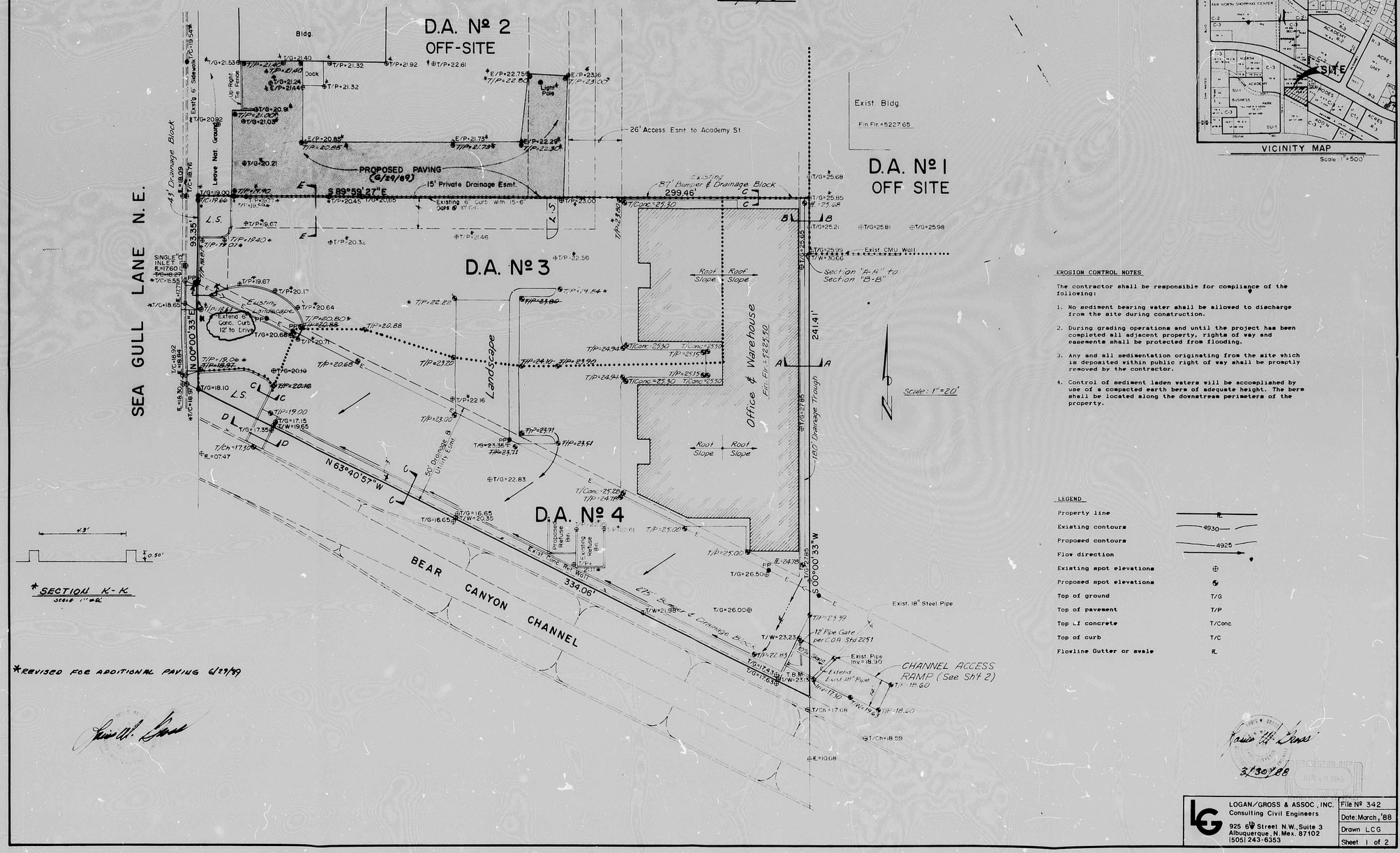
B 24 C 20 B 16 A 12

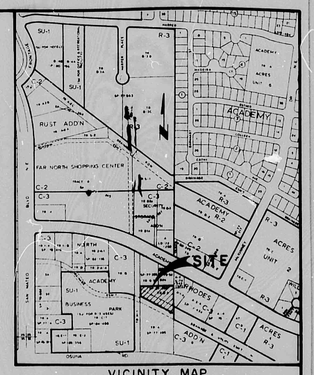
CITY OF ALBUQUERQUE C

# DRAINAGE PLAN

## TRACT B-3
## LIMITED PARTNERSHIP TRACT

ZONE MAP E-18, BENCHMARK "1-E16A" ELEV.=5222.43
FLOOD MAP 17, SOIL TYPE "B"
FILE E18/D46 APPROVED 4/25/86

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4. 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.

**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 |

3/30/88

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

| | |
|---|---|
| File № 342 | |
| Date: March, '88 | |
| Drawn LCG | |
| Sheet 1 of 2 | |

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK


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R# 25 DATE 3-15-92 OF Expl.

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DIRECTOR 11/5/92

NOTARY PUBLIC
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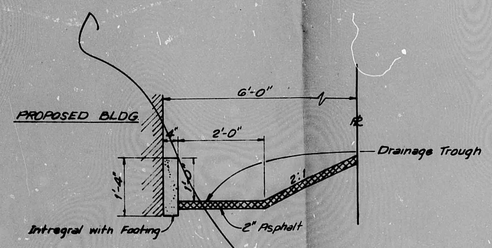
Roberta Duran
NOTARY PUBLIC
07/07/92 Bond


D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D

# DRAINAGE PLAN
## TRACT B-3
## LIMITED PARTNERSHIP TRACT




SECTION "A-A"
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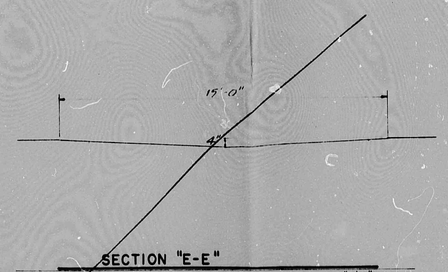


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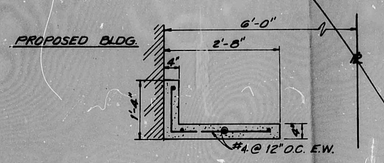


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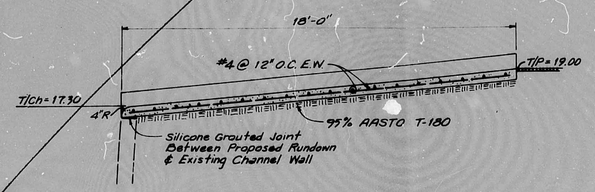


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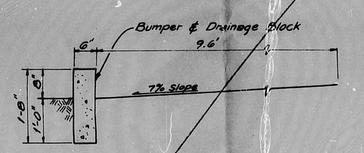


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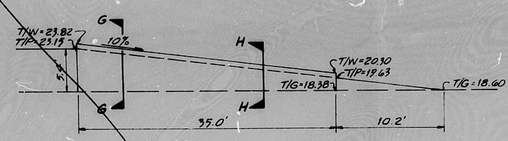


CHANNEL ACCESS RAMP
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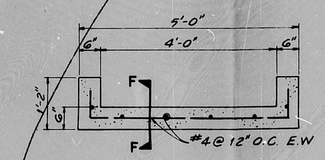


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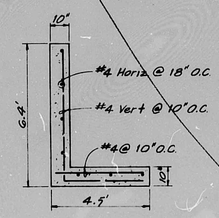


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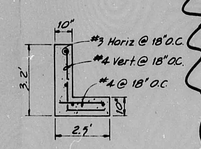


SECTION "H-H"
Scale: 3/8"=1'-0"

**HYDROLOGY**

100 yr - 6 hr rainfall = 2.3 in  1 = 2.3 X 2.3 = 5.3 in/hr

**EXISTING:**

Off - Site DA-No 1

A = 10,350 sf = 0.238 ac

| | | | |
|---|---|---|---|
| Landscape = | 1,836 X 0.25 = | 429 |
| Pavement & Roof = | 8,088 X 0.95 = | 8,088 |
| | 10,350 | 8,517 |

C = 8,517 / 10,350 = 0.82

Q1 = 0.82 X 5.3 X 0.238 = 1.0 cfs

CN = 88  Direct Run Off = 1.25

V1 = 1.25 / 12 X 10,350 = 1,078 cf

Off - Site DA-No 2

A = 60,374 sf = 1.386 ac

| | | |
|---|---|---|
| Non-contributing = | 9,426 | |
| Landscape = | 6,618 X 0.25 = | 1,655 |
| Roof & Pavement = | 44,330 X 0.95 = | 42,114 |
| | 60,374 | 43,769 |

C = 43,769 / 50,948 = 0.86

Q2 = 0.86 X 5.3 X 1.0 = 4.6 cfs

CN = 89  Direct Run Off = 1.28

V2 = 1.2 / 12 X 50,948 = 5,095 cf

ON-SITE

Natural Ground  C = 0.40

Q = 0.40 X 5.3 X 1.15 = 2.4 cfs

CN = 75  Direct Run Off = 0.55 in

V = 0.55 / 12 X 50,124 = 2297 cf

The existing on-site and off-site storm water flows through the project site and over the curb to Sea Gull Lane. The totals are: Q = 8.0 cfs & V = 8470 cf

**PROPOSED:**

DA-No 1 plus Roof in DA-No 4

Q roof = 0.95 X 5.3 X 0.156 = 0.79 cfs

Q to drainage trough ( Section A-A )

Q = 1.00 + 0.79 = 1.79 cfs

Drainage trough capacity ( Section A-A )

A = 1.8  P = 3  R = 0.33 $R^{0.67}$ = 0.46

S = 0.005 $S^{0.5}$ = 0.07

Q = 1.0 X 1.486 / 0.13 X 0.46 X 0.07 = 3.8 cfs - OK

DA-No 1 plus DA-No 4

DA-No 4  A = 30,483 = 0.70 ac

| | | |
|---|---|---|
| Roof = | 2,472 X 0.90 = | 2,225 |
| Landscape = | 1,812 X 0.25 = | 453 |
| Pavement = | 26,199 X 0.95 = | 24,889 |
| | 30,483 | 27,567 |

C = 27,567 / 30,483 = 0.90

Q = 0.90 X 5.3 X 0.70 = 3.3 cfs

Cn = 90  Direct Run Off = 1.4 in

V = 1.4 / 12 X 30,483 = 3,556 cf

Q1 + Q4 = 1.0 + 3.3 = 4.3 cfs

V1 + V4 = 1,078 + 3,556 = 4,634 cf

Capacity Section C-C

H = 8" = 0.67 ft  W = 0.67 / 0.07 = 9.6 ft

A = 0.5 X 0.67 X 9.6 = 3.2  P = 10.67

R = 0.31 $R^{0.67}$ = 0.46  S = 0.007 $S^{0.5}$ = 0.08

Q = 3.2 X 1.486 /0.017 X 0.46 X 0.08 = 10.3 cfs - OK

DA-No 2 plus DA-No 3

DA-No 3  A = 19,641 sf = 0.45 ac

| | | |
|---|---|---|
| Roof = | 2,616 X 0.90 = | 2,354 |
| Landscape = | 1,399 X 0.25 = | 350 |
| Asphalt = | 15,626 X 0.95 = | 14,845 |
| | 19,641 | 17,549 |

C = 17,549 / 19,641 = 0.89

Q = 0.89 X 5.3 X 0.45 = 2.1 cfs

CN = 90  Direct Run Off = 1.4 in

V = 1.4 / 12 X 19,641 = 2291 cf

Q2 + Q3 = 4.6 + 2.1 = 6.7 cfs

V2 + V3 = 5,095 + 2,291 = 7,386 cf

Capacity Section E-E

A = 2.48  P = 15  R = 0.16 $R^{0.67}$ = 0.30

S = 0.024 $S^{0.5}$ = 0.15

Q = 2.48 X 1.486 / 0.017 X 0.30 X 0.15 = 9.8 cfs -OK

**SUMMARY**

EXISTING:

Q = 8.0 cfs & V = 8,470 cf to Sea Gull Street.

PROPOSED:

Q = 6.7 cfs & V = 7,386 cf to Sea Gull Street.

Q = 4.3 cfs & V = 4,634 cf to Bear Canyon Channel

HYDROLOGY (6/29/89)

For additional paving on Tract B-1 adjacent to Tract B-3, Limited Partnership Tract.

From previous calculations: Q = 4.6 cfs from Tracts B-1 & B-2b. The existing curb between Tracts B-1 & B-3 contains 15 - 0.38 feet openings spaced 18 feet apart. Most of the 4.6 cfs will have to pass through the gaps in this curb.

Capacity of curb gaps:

$Q = C\ L_e\ H^{1.5}$  For the narrow weirs use a C of 2.7

$L_e = L - 0.1\ n\ H = 0.38 - 0.10 \times 2.00 \times 0.38 = 0.40$

$Q = 2.7 \times 0.40 \times 0.38^{1.5} = 0.28$ cfs per gap

Qt = 0.28 X 15 = 5.7 cfs - Capacity adequate.

Flow must go through constriction at Section E - E.

Check by channel flow:

A = 2.15 sf  P = 5.3  R = 0.41 $R^{0.667}$ = 0.55

$S = (8.61 - 18.64 / 14 = 0.0121)^{0.50} = 0.11$

Q = 2.15 X 1.486 / 0.017 X 0.55 X 0.11 = 11.4 cfs - OK

Check by weir flow:

$Q = C\ L_e\ H^{1.5}$  For the wider weirs use a C of 3.2

$L_e = L - 0.1\ n\ H = 4.3 - 0.10 \times 1.00 \times 0.38 = 4.25$ ft

$Q = 3.2 \times 4.25 \times 0.38^{1.5} = 4.8$ cfs - OK

By extending to curb a shown on the plans at Section E - E all the flow will go through the driveway to Sea Gull Lane.

REVISED FOR ADDITIONAL PAVING 6/29/89


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| | |
|---|---|
| File Nº 342 | |
| Date: March, '88 | |
| Drawn LCG | |
| Sheet 2 of 2 | |


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