

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Chiropractic Clinics ZONE ATLAS/DRNG. FILE #: K-21 / D21
 LEGAL DESCRIPTION: Tract B-1-B, Block 124, Princess Jeanne Park
 CITY ADDRESS: _____

ENGINEERING FIRM: Lee Engineering CONTACT: R. G. Lee Jr

ADDRESS: 8225 Connecticut NE PHONE: 299-2471

OWNER: Chiropractic Clinics of New Mexico CONTACT: _____

ADDRESS: _____ PHONE: _____

ARCHITECT: Ken Hovey Design Group CONTACT: Ken Hovey

ADDRESS: 335 Jefferson St #B PHONE: 255-9400

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

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

☒ Alley grades #3361

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: Sept 30 1987

BY: Herman Hovel

FILE COPY



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Ken Schultz
Mayor

UTILITY DEVELOPMENT DIVISION
HYDROLOGY SECTION
(505) 768-2650

October 15, 1987

R. G. Lee, Jr., P.E.
Lee Engineering
8225 Connecticut NE
Albuquerque, New Mexico 87110

RE: GRADING AND DRAINAGE PLAN FOR CHIROPRACTIC CLINICS, SUBMITTED
SEPTEMBER 30, 1987, FOR FOUNDATION PERMIT APPROVAL (K-21/D21)

Dear Mr. Lee:

Your submittal, referred to above, is approved for foundation permit
sign-off by Hydrology.

As I mentioned on the phone, I believe the profile of the alley has a
mistake in the grade between Stations 15+83 and 17+05; it says 6.24% but
scales at roughly 2%. Would you send a print of the correction to us for
our files at your earliest convenience, please?

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

Sincerely,

Stuart Reeder

G. Stuart Reeder, P.E.
Civil Engineer
Hydrology Section

GSR/lk

cc: Ken Hovey, Ken Hovey Design Group
Becky Sandoval, Permits

PUBLIC WORKS DEPARTMENT

Walter Nickerson, P.E., City Engineer

ENGINEERING GROUP

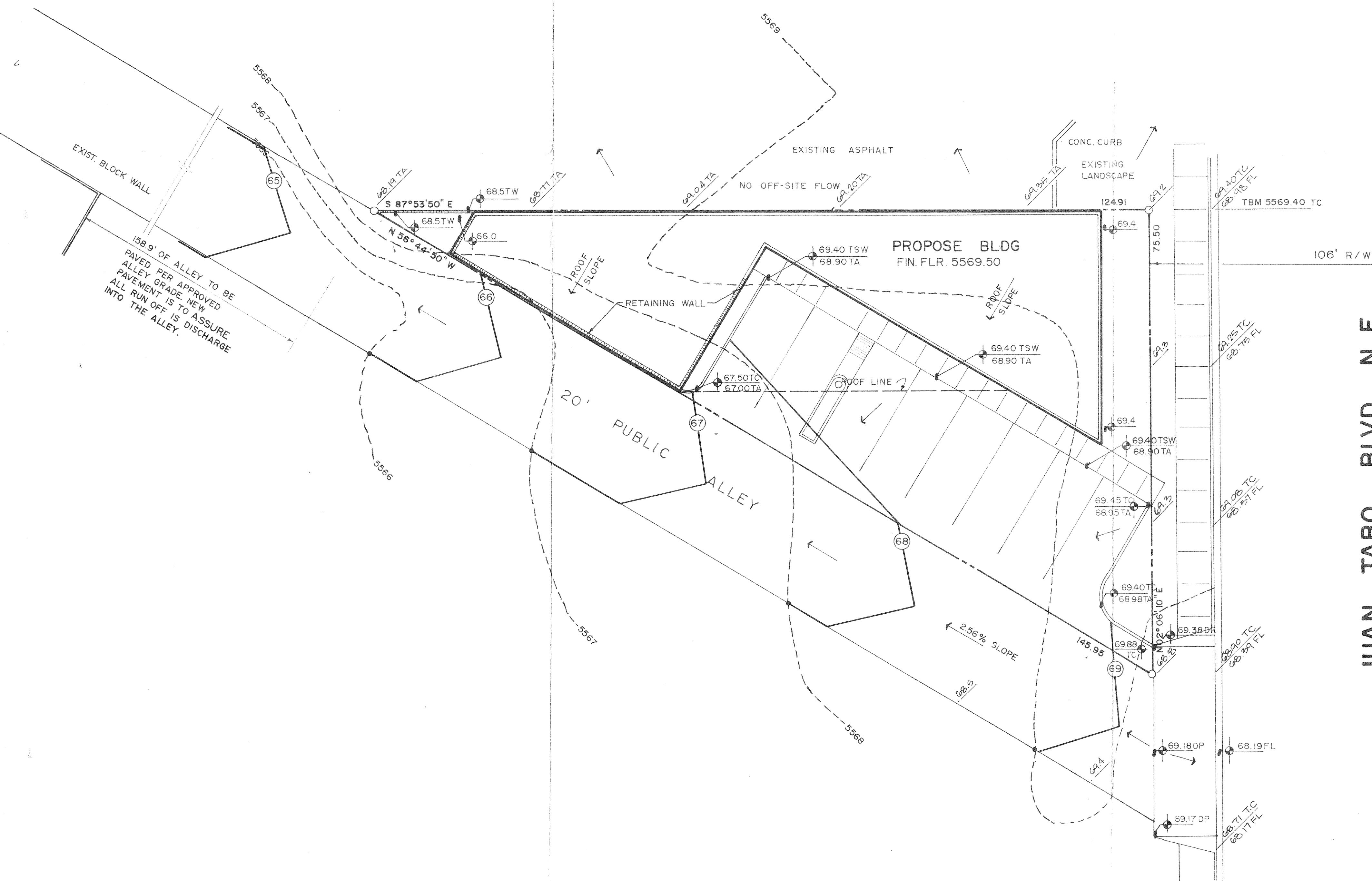
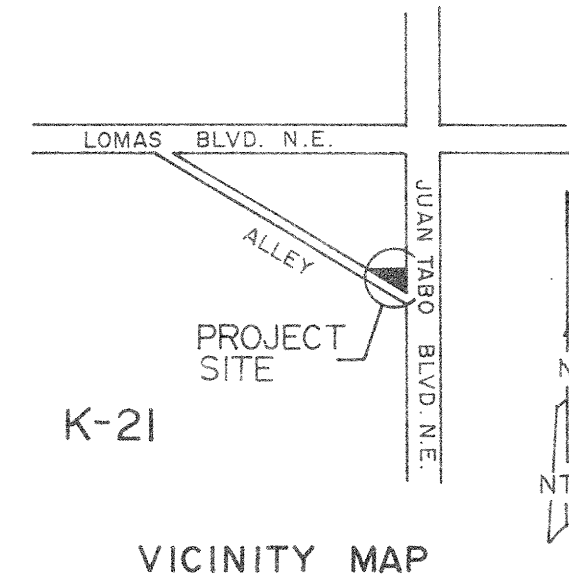
Telephone (505) 768-2500

AN EQUAL OPPORTUNITY EMPLOYER

GRADING AND DRAINAGE PLAN

NORTH
SCALE 1"=10'

LEGAL
TR. B-1-B, BLOCK 124
PRINCESS JEAN PARK ADDITN.



DRAINAGE CALCULATIONS

1. REFERENCES
- A. City of Albuquerque Development Process Manual (DPM) Vol. 2, Design Criteria, Chapter 22: Drainage, Flood Control, and Erosion Control.
 - B. Soil Survey of Bernalillo County and parts of Sandoval and Valencia Counties, New Mexico, United States Department of Agriculture, Soil Conservation Service.
 - C. Floodway, Flood Boundary and Floodway map, City of Albuquerque, New Mexico, Panel 31 of 50.
 - D. Zone Atlas page K-21-2.

11. GENERAL INFORMATION:
A. Soil Type (Ref. B, Page 20) Soil type is Tijeras
gravelly fine sandy loam, (Tgb), Hydrologic Soil Group
"B".

Type of Surface	Existing Sq. Ft. / Acres	Area	Proposed Sq. Ft. / Acres	Area
Building Roof	-0-	-0-	2759	0.0633
Concrete Surfaces	-0-	-0-	120	0.0028
Asphalt Surfaces	-0-	-0-	1424	0.0327
Landscaping	-0-	-0-	412	0.0095
Undeveloped Surface	4715	0.1082	-0-	-0-
Site Total	4715	0.1082	4715	0.1082

- C. "C" Factor (See Amendment to the DPM Jan. 19, 1986)

- | 1. Proposed impervious surfaces | "C" Factor | Area | C x A |
|---------------------------------|------------|--------|--------|
| Building (Roof area) | 0.90 | 0.0633 | 0.0570 |
| Concrete surface | 0.95 | 0.0028 | 0.0027 |
| Asphalt surface | 0.95 | 0.0327 | 0.0311 |
| Landscaped surface | 0.25 | 0.0095 | 0.0024 |
| Undeveloped surface | 0.40 | -0- | -0- |

- ```

Developed weighted "C" Factor 0.0932/0.1082 = 0.86
2. Existing impervious surfaces "C" Factor Area C x A
 Undeveloped area 0.40 0.1082 0.0433
Existing weighted "C" Factor 0.4333/0.1082 = 0.40
D. Rainfall, 100-year, 6-hour, R(6); (See Ref. A, Plate
 22.2 D-1); P(6) = 2.45 inches
E. Time of Concentration, Tc; Tc 10 minutes; use 10
 minutes (minimum value) for calculations.
F. Rainfall intensity, I; (See Ref. A, Plate 22.2 D-2)
 I = P(6) x 6.84 x Tc exp (-0.51)
 = 2.45 x 6.84 x 10 exp (-0.51)
 = 5.18 in/hr

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- III. PEAK DISCHARGE:
- A. Existing Conditions. (Use Rational Equation)  
 $Q(100) = 0.40 \times 5.18 \times 0.1082 = 0.22$  cfs  
 $Q(10) = 0.657 \times 0.22 = 0.15$  (Ref. A, Plate 22.2 D-1)
- B. Developed Conditions.  
 $Q(100) = 0.86 \times 5.18 \times 0.1082 = 0.48$  cfs ✓  
 $Q(10) = 0.657 \times 0.48 = 0.32$  cfs

- IV. VOLUMES:
- A. Existing Conditions.  
0' Impervious, 73 Composite CN, DRO = 0.55 inches.  
 $V(100) = 3630 \times DRO \times \text{Area} = 216 \text{ cu. ft.}$
- B. Developed Conditions.  
86 imp., 95 Composite CN, DRO = 1.8 inches.  
 $V(100) = 3630 \times DRO \times \text{Area} = 707 \text{ cu. ft.}$

- V. FLOOD INFORMATION:  
A. The proposed site does not lie within a designated flood zone. Reference C, Panel 31 of 50.

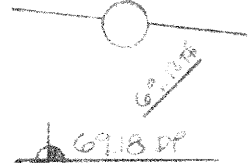
- VI. CONCLUSIONS:
- A. This is an infill development.
  - B. All runoff generated on adjacent land discharges freely into the existing right-of-way.
  - C. There are no off-site flows onto this property. Existing development on the property to the north prohibits any off-site flows.

- VII. CONSTRUCTION NOTES:
- A. Two (2) working days prior to any excavation, contractor must contact line locating service at 765-1234 for location of existing utilities.
  - B. Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all potential obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict may be resolved with a minimum amount of delay.
  - C. All work on this project shall be performed in accordance with applicable Federal, State and local laws, rules, and regulations concerning construction safety and health.
  - D. All construction within City Right-of-Way shall be performed in accordance with applicable City of Albuquerque standards and procedures.

## BENCHMARK INFORMATION:

Temporary benchmark as shown hereon is marked with orange spray paint, "[ ] TBM", on top of curb, bears elevation 5569.40 (MSL). Reference to City Benchmark 1-J21, elevation 5518.882 (MSL) located on the east northeast curb return in the NE quadrant of the intersection of Lomas Blvd. & Lomas Court and being a square chisled on the top of the curb.

## SYMBOL LEGEND

|                                                                                       |                         |
|---------------------------------------------------------------------------------------|-------------------------|
|  | Existing contour        |
|                                                                                       | Proposed contour        |
|                                                                                       | Existing spot elevation |
|                                                                                       | Proposed spot elevation |
| TBM                                                                                   | Temporary benchmark     |
| TSW                                                                                   | Top of sidewalk         |
| TA                                                                                    | Top of asphalt          |
| TC                                                                                    | Top of curb             |
| FL                                                                                    | Flowline                |
| DP                                                                                    | Driveway                |
| TW                                                                                    | Top of wall             |

**APPROVED FOR**  
*G.S. REA*

GRADING &amp; DRAINAGE PLAN

CHIROPRACTIC CLINICS OF NEW MEXICO  
821 JUAN TABO BOULEVARD NE  
ALBUQUERQUE, NEW MEXICO

APPROVED FOR DRAINAGE

15 OCT 87  
DATE  
S. S. Reeder, P.E. CE/HHD  
SIGNATURE

| REMARKS                                            | TITLE |
|----------------------------------------------------|-------|
| ADVISE DRAINAGE INSPECTOR<br>WHEN GRADING EXECUTED |       |

C-2