



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

November 17, 1986

Frank Lovelady
Lovelady & Associates
7408 Morrow Road, NE
Albuquerque, New Mexico 87110

RE: REVISED DRAINAGE PLAN FOR CAR QUEST AUTO PARTS STORE
(J-14/D55) RECEIVED NOVEMBER 5, 1986

Dear Frank:

The above referenced submittal for the purpose of obtaining building permit sign-off is hereby approved.

Please attach a copy of this approved plan, dated November 5, 1986 to each set of construction drawings for Hydrology sign-off.

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

Cordially,

Billy J. Goolsby
Billy J. Goolsby, P.E.
C.E./Hydrology Section

cc: Rick Duran
Ben F. Northcutt

BJG/bsj

PUBLIC WORKS DEPARTMENT

Walter Nickerson, P.E., City Engineer

ENGINEERING GROUP

Telephone (505) 768-2500

AN EQUAL OPPORTUNITY EMPLOYER



City of Albuquerque

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HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

November 28, 1986

Ben Northcut
1321 Second Street, NW
Albuquerque, New Mexico 87102

Dear Mr. Northcut:

On November 26, 1986, I conducted a field inspection of the Car Quest project site after receiving the revised drainage plan, dated November 5, 1986. During my inspection, I noted several items which appear to be contrary to the design of the approved plan.

1. Drainage swale along the north side of the building is not containing roof drainage on-site.
2. Down spout extensions at north side of building is routing water onto adjacent property to north.
3. Down spout at south side of building is draining water onto adjacent property to south.

Prior to issuance of Certificate of Occupancy, these items must be corrected.

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

Cordially,

Richard L. Duran
Drainage Inspector

RLD/baj

PUBLIC WORKS DEPARTMENT

Walter Nickerson, P.E., City Engineer

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DRAINAGE INFORMATION SHEET

PROJECT TITLE: Car Quest Auto Parts Store ZONE ATLAS/DRNG. FILE #: J-14/1D55
LEGAL DESCRIPTION: TRACT A, Block 9 Paris Addition
CITY ADDRESS: 1321 Second St. N. W.

ENGINEERING FIRM: Lovelady & Associates CONTACT: Frank Lovelady
ADDRESS: 7408 Morrow Road N.E. ⁸⁷¹¹⁰ PHONE: 883-7973

OWNER: Ben F. Northcutt CONTACT: (same)
ADDRESS: P.O. Box 26628 PHONE: 243-2201

ARCHITECT: Ken Hovey Design Group CONTACT: Ken Hovey
ADDRESS: 335 Jefferson SE, Suite B PHONE: 255-9400

SURVEYOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____

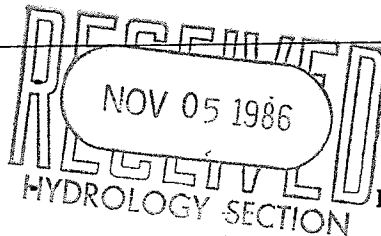
CONTRACTOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____

PRE-DESIGN MEETING:

☒ YES

☐ NO

☐ COPY OF CONFERENCE RECAP
SHEET PROVIDED



DRB NO. 85-150-3/5/85 Delegated
EPC NO. _____
PROJ. NO. _____

TYPE OF SUBMITTAL:

☐ DRAINAGE REPORT

☒ DRAINAGE PLAN

☐ CONCEPTUAL GRADING & DRAINAGE PLAN

☐ GRADING PLAN

☐ EROSION CONTROL PLAN

☐ ENGINEER'S CERTIFICATION

Resubmittal to show paving
at rear of building.

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: Nov 5 1986

BY: Frank D. Lovelady

DRAINAGE CALCULATIONS
FOR
1321 SECOND STREET NW, ALBUQUERQUE, N.M.

I. REFERENCES:

- City of Albuquerque Development Process Manual (DPM) Volume 2, Design Criteria, Chapter 22: Drainage, Flood Control, and Erosion Control.
- Soil Survey of Bernalillo County and Parts of Sandoval Counties, New Mexico, United States Department of Agriculture, Soil Conservation Service.

II. GENERAL INFORMATION:

- Soil Type (Ref. B., Page 30):
Soil type is GK, Glendale Loam, Hydrologic Soil Group B.
- Imperviousness:

TYPE OF SURFACE	EXISTING AREA Sq.Ft. Acres	PROPOSED Sq.Ft. Acres
Building Roof		3000 0.0689
Asphalt Surfaces	(VACANT LOT)	2420 0.0556
Landscaping		0 0.0000
Undeveloped Surface		1681 0.0386
Site Total	7101 0.1631	7101 0.1631
Percent Impervious	0 percent	76.3 percent

- "C" Factor (See Ref. A., Plate 22.2 C-1):
1. Undeveloped "C" Factor = 0.34
2. Developed "C" Factor = 0.73
- Rainfall, 100 Year, 6-Hour, R(6), (See Ref. A., Plate 22.2 D-1):
R(6) = 22 inches
- Time of Concentration, T(c):
T(c) = (use 10 minutes)
- Rainfall Intensity, I, (See Ref. A., Plate 22.2 D-2):
 $I = R(6) \times 5.84 \times T(c)^{-0.51}$
 $= 2.2 \times 5.84 \times 10^{-0.51}$
 $= 4.65 \text{ in/hr}$

III. PEAK DISCHARGE:

- Existing Conditions (Use Rational Equation):
 $Q(100) = 0.34 \times 4.65 \times 0.16 = 0.25 \text{ cfs}$
 $Q(10) = 0.557 \times 0.25 = 0.16 \text{ cfs}$ (Ref. A., Plate 22.2 D-1)
- Developed Conditions:
 $Q(100) = 0.73 \times 4.65 \times 0.16 = 0.54 \text{ cfs}$
 $Q(10) = 0.557 \times 0.54 = 0.35 \text{ cfs}$

IV. CONCLUSIONS:

- New generated run-off will discharge via driveway into Summer Avenue.
- Proposed development will have no adverse effect on downstream capacity as this site is the only site presently vacant in the area.
- The development of this site will not create any surface drainage ingress or egress to adjacent 16' alley.

GENERAL NOTES:

No search has been made for easements of record within the subject property other than shown on the map here attached.

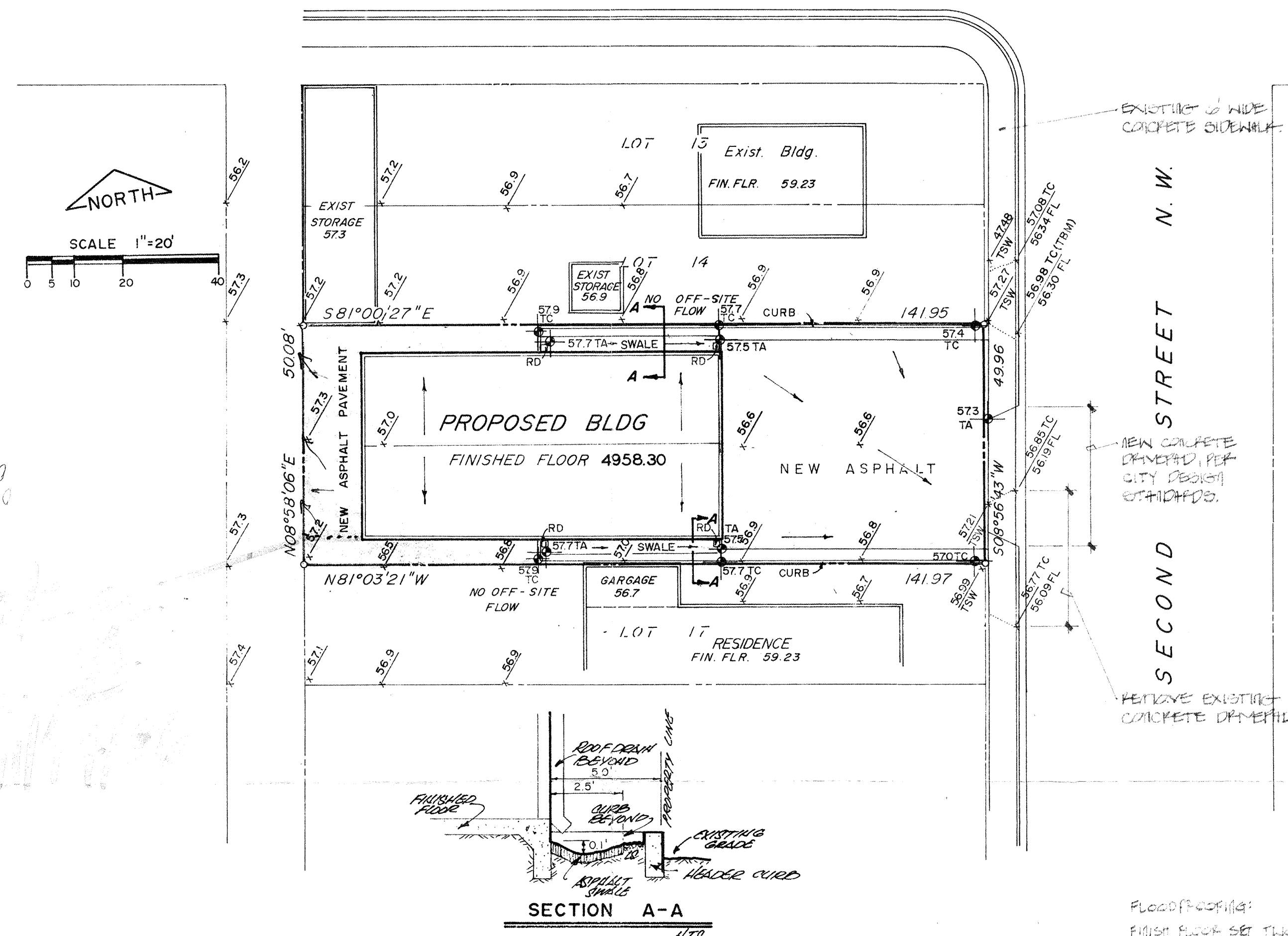
BENCH MARK REFERENCE:

Standard USIC and GSI Brass cap stamped "L-224 RESET" set in the top of traffic warning light at the intersection of Mountain Road NW and the A.T. & S.F. Railroad track. M.S.L. elevation: 4958.560'.

LEGAL DESCRIPTION:

A certain tract or parcel of land situated within the legal limits of the City of Albuquerque, Bernalillo County, New Mexico; being more particularly described as: TRACT A, BLOCK 9, of the PARIS ADDITION to the CITY of ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

SUMMER AVE. N.W.



SECTION A-A

FLOOD PROOFING?
FINISH FLOOR SET TWO FEET
ABOVE FLOW LINE

LEGEND

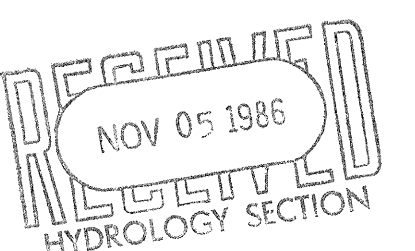
- DIRECTION OF FLOW
- * EXISTING SPOT ELEVATION
- + PROPOSED SPOT ELEVATION
- TC TOP OF CURB
- FL FLOW LINE
- TA TOP OF ASPHALT
- TSW TOP OF SIDEWALK
- FG FINISH GRADE
- TBM TEMPORARY BENCHMARK
- NTS NOT TO SCALE



VICINITY MAP
ZONE ATLAS MAP # J-14-Z



REVISED 10/29/85
REVISED 11/5/86



GRADING AND DRAINAGE PLAN
CAR QUEST AUTO PARTS STORE
1321 SECOND STREET NW
ALBUQUERQUE, NEW MEXICO