



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

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

January 20, 1986

Victor Chavez, P.E.
Chavez-Grievies Consulting Engineers
4520 Montgomery Blvd., NE Suite 3
Albuquerque, New Mexico 87109

RE: DRAINAGE PLAN FOR GOLD SEAL AUTO
RECEIVED JANUARY 16, 1986 (K-17/D42)

Dear Mr. Chavez:

The referenced plan dated January 3, 1986, is approved for Building Permit sign-off.

If you have any questions regarding this project, call me at 766-7644.

Cordially,

Carlos A. Montoya, P.E.
City/County Floodplain Administrator

BJM:CAM/bsj

MUNICIPAL DEVELOPMENT DEPARTMENT

C. Dwayne Sheppard, P.E., City Engineer

ENGINEERING DIVISION

Telephone (505) 766-7467

AN EQUAL OPPORTUNITY EMPLOYER

DRAINAGE INFORMATION SHEET

PROJECT TITLE: GOLD SEAL AUTO ZONE ATLAS/DRNG.FILE #: K-17/012

LEGAL DESCRIPTION: Tract "29-B", Heights Reservoir Addition

CITY ADDRESS: _____

ENGINEERING FIRM: Chavez-Griener

CONTACT: Jackie McDowell

ADDRESS: 4520 Montgomery #3

PHONE: (505) 881-7376

OWNER: _____

CONTACT: _____

ADDRESS: _____

PHONE: _____

ARCHITECT: Kevin Georges & Assoc.

CONTACT: Kevin Georges

ADDRESS: 127 Jefferson, Suite A

PHONE: (505) 255-4975

SURVEYOR: D.T. Morrison, Surveyor, Inc

CONTACT: D.T. Morrison

ADDRESS: 1020 Texas NE

PHONE: (505) 256-7364

CONTRACTOR: N/A

CONTACT: _____

ADDRESS: _____

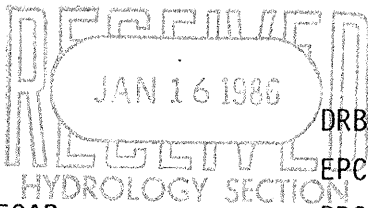
PHONE: _____

PRE-DESIGN MEETING:

YES

NO

COPY OF CONFERENCE RECAP SHEET PROVIDED



DRB NO. 84-647 9/26/84 delegated

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: 1/16/86

BY: Jackie S. McDowell



DRAINAGE PLAN
GOLD SEAL AUTO

LOCATION AND DESCRIPTION:

The site is located at the southwest corner of the intersection of Lomas Boulevard and San Mateo Boulevard N.E. containing approximately 1.432 acres. The site is presently 97 percent developed (impervious) and slopes from southeast to northwest.

EXISTING CONDITION:

Existing runoff from the site flows to the north (Lomas Boulevard) and to the west property. No off-site runoff enters the site due to existing grades.

PROPOSED CONDITION:

Proposed development of the site includes a remodel to an existing building and demolition of an existing building being replaced by landscaping and parking areas. Proposed development of the site will decrease runoff due to the proposed landscaping.

CALCULATIONS:

Area = 1.432 acres
Soil Series - ETC
Hydrologic Soil Group - B
I = 2.2 in./hr. Plate 22.2 D-2
6-hour, 100-year rainfall = 2.25 in. Plate 22.2 D-1
i = (2.2)(2.25) = 4.95 in./hr.

EXISTING ON-SITE CONDITIONS:

Percent Impervious = 97%
C = 0.95 Plate 22.2 C-1
Q(100) = (0.95)(4.95)(1.432) = 6.73 cfs
Q(10) = (0.657)(6.73) = 4.42 cfs
CN = 98 Plate 22.2 C-2
Direct Runoff = 2.0 in. Plate 22.2 C-4
V(100) = (2.0)(1.432)(43560)/12 = 10396 cu. ft.
V(10) = (0.657)(10396) = 6830 cu. ft.

PROPOSED ON-SITE CONDITIONS:

Percent Impervious = 93%
C = 0.89 Plate 22.2 C-1
Q(100) = (0.89)(4.95)(1.432) = 6.31 cfs
Q(10) = (0.657)(6.31) = 4.14 cfs
CN = 95 Plate 22.2 C-2
Direct Runoff = 1.70 in. Plate 22.2 C-4
V(100) = (1.70)(1.432)(43560)/12 = 8837 cu. ft.
V(10) = (0.657)(8837) = 5806 cu. ft.

DEPTH OF FLOW IN SAN MATEO AT EAST DRIVEPAD:

C = 1.0; A = 0.46 ACRES
Q(100) = (1.0)(4.95)(0.46) = 2.28 CFS
 $5/3 \ 1/2 \ 2/3$
Q = 1.486 A S /np
S = 0.002
n = 0.017
A = 25d
P = 50d
SOLVE FOR d,
d = 0.29 FEET

NOTICE TO CONTRACTOR:

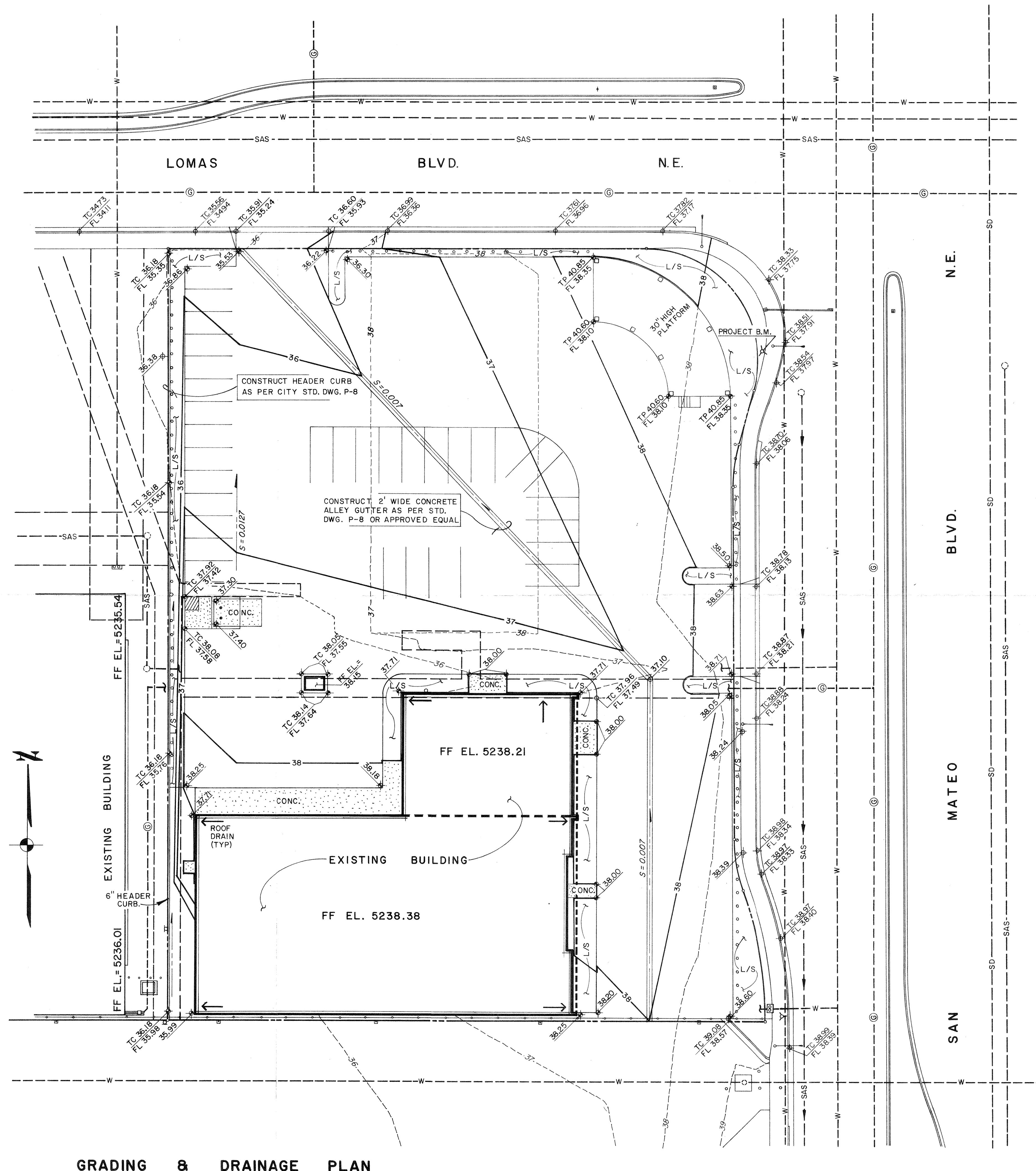
1. THE CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS PUBLIC WORKS CONSTRUCTION, 1985 WILL BE REFERRED TO HEREON AS THE "STANDARD SPECIFICATION".
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS PUBLIC WORKS CONSTRUCTION, 1985.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.
5. CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL DURING THE CONSTRUCTION PHASE, INCLUDING ANY PROVISIONS THAT NEED TO BE TAKEN TO DIVERT ANY SEDIMENT FROM ENTERING THE CITY RIGHT-OF-WAY.

GENERAL NOTES:

1. TOPOGRAPHIC INFORMATION SHOWN ON THIS PLAN IS BASED ON A SURVEY PREPARED BY D.T. MORRISON, SURVEYOR, INC. IN NOVEMBER, 1985.
2. LEGAL DESCRIPTION: TRACT "29-B", HEIGHTS RESERVOIR ADDITION, ALBUQUERQUE, NEW MEXICO.
3. PROJECT BENCH MARK: FIRE HYDRANT LOCATED IN NORTHEAST CORNER OF PROPERTY AT THE INTERSECTION OF SAN MATEO BLVD. N.E. AND LOMAS BLVD. N.E. SET B.M. WEST BONNET BOLT TOP OF F.H. ELEVATION = 5241.29 M.S.L.
ACS BENCH MARK: BRASS DISK "4-317, 1975 ACS" SET IN A DRILL HOLE ON TOP OF SIDEWALK, LOCATED 46.4 FT. NORTH OF CENTERLINE ON LOMAS BLVD. AND 89.3 FT. WEST OF CENTERLINE ON SAN MATEO BLVD. ELEVATION = 5238.146 S.L.D.
4. REFERENCED TO FLOOD HAZARD BOUNDARY MAP PANEL NO. 29.

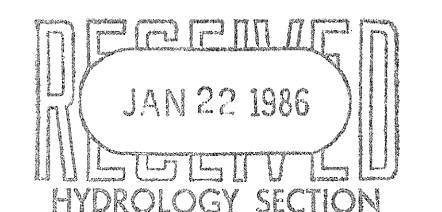
LEGEND

- CONTOUR (EXISTING) ---37---
- CONTOUR (PROPOSED) ---37---
- SPOT ELEVATION (PROR) ---●---
- SPOT ELEVATION (EXIST.) ---●---
- PROPERTY LINE --- ---
- LANDSCAPING ---L/S---



GRADING & DRAINAGE PLAN

1" = 20'-0"



Project Title _____
 Drawn By N Checked By J.S.M.
 Project No. _____ Date 1-3-86
 Revisions _____ Architect _____
 1/3/86 1/20/86
 Victor J. Chavez
 STATE OF NEW MEXICO
 REGISTERED PROFESSIONAL ENGINEER

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