

DRAINAGE INFORMATION SHEET

PROJECT TITLE: LOVELACE STORAGE BLDG ZONE ATLAS/DRNG. FILE #: L-18/033
DRB #: _____ EPC #: Z-90-67 WORK ORDER #: _____
LEGAL DESCRIPTION: LOT "C" BLOCK 27 of VIRGINIA PLACE ADDITION
CITY ADDRESS: 1425 PALOMAS DRIVE S.E.
ENGINEERING FIRM: WEISS-HINES ENG. INC. CONTACT: _____
ADDRESS: 1100 ALVARADO N.E. PHONE: 266-3444
OWNER: BIRD of PARADISE CONTACT: RICK GALBALDON
ADDRESS: 5211 GIBSON S.E. PHONE: 292-2894
ARCHITECT: DEL PAUL JACK CONTACT: DEL PAUL JACK
ADDRESS: 2745 RIO GRANDE BLVD N.E. PHONE: 345-5090
SURVEYOR: ROSS-HOWARD CO. CONTACT: _____
ADDRESS: CORRALES, N.M. PHONE: 897-0291
CONTRACTOR: MELTON DEV. & CONST. INC. CONTACT: JOHN MELTON
ADDRESS: P.O. Box 1637 ALGODONOS PHONE: 867-2257

TYPE OF SUBMITTAL:

- ☒ DRAINAGE REPORT
☒ DRAINAGE PLAN
☐ CONCEPTUAL GRADING & DRAINAGE PLAN
☐ GRADING PLAN
☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERTIFICATION
☐ OTHER

PRE-DESIGN MEETING:

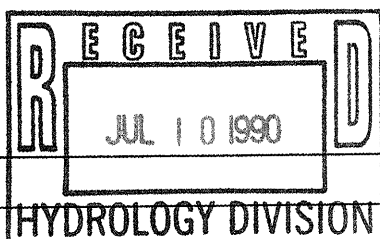
- ☒ YES
☒ NO
☐ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SKETCH PLAT APPROVAL
☐ PRELIMINARY PLAT APPROVAL
☒ S. DEV. PLAN FOR SUB'D. APPROVAL
☒ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ FOUNDATION PERMIT APPROVAL
☒ BUILDING PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY APPROVAL
☐ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ S.A.D. DRAINAGE REPORT
☐ DRAINAGE REQUIREMENTS
☐ OTHER _____ (SPECIFY)

DATE SUBMITTED: _____

BY: _____





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

July 18, 1990

Chris Weiss, P.E.
Weiss-Hines Engineering
1100 Alvarado, NE
Albuquerque, New Mexico 87108

RE: DRAINAGE PLAN FOR LOVELACE STORAGE BUILDINGS
(L-18/D33) REVISION DATED MAY 24, 1990

Dear Mr. Weiss:

Based on the information provided on your submittal of JULY 10, 1990, the above referenced plan is approved for Site Development and Building Permit.

Please attach a copy of this plan to the construction sets prior to sign-off by Hydrology.

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

Cordially,

for Bernie Montoya
Fred J. Aguirre, P.E.
Hydrologist

BJM:FJA/bsj
(WP+972)

PUBLIC WORKS DEPARTMENT

Walter H. Nickerson, Jr., P.E.
Assistant Director Public Works

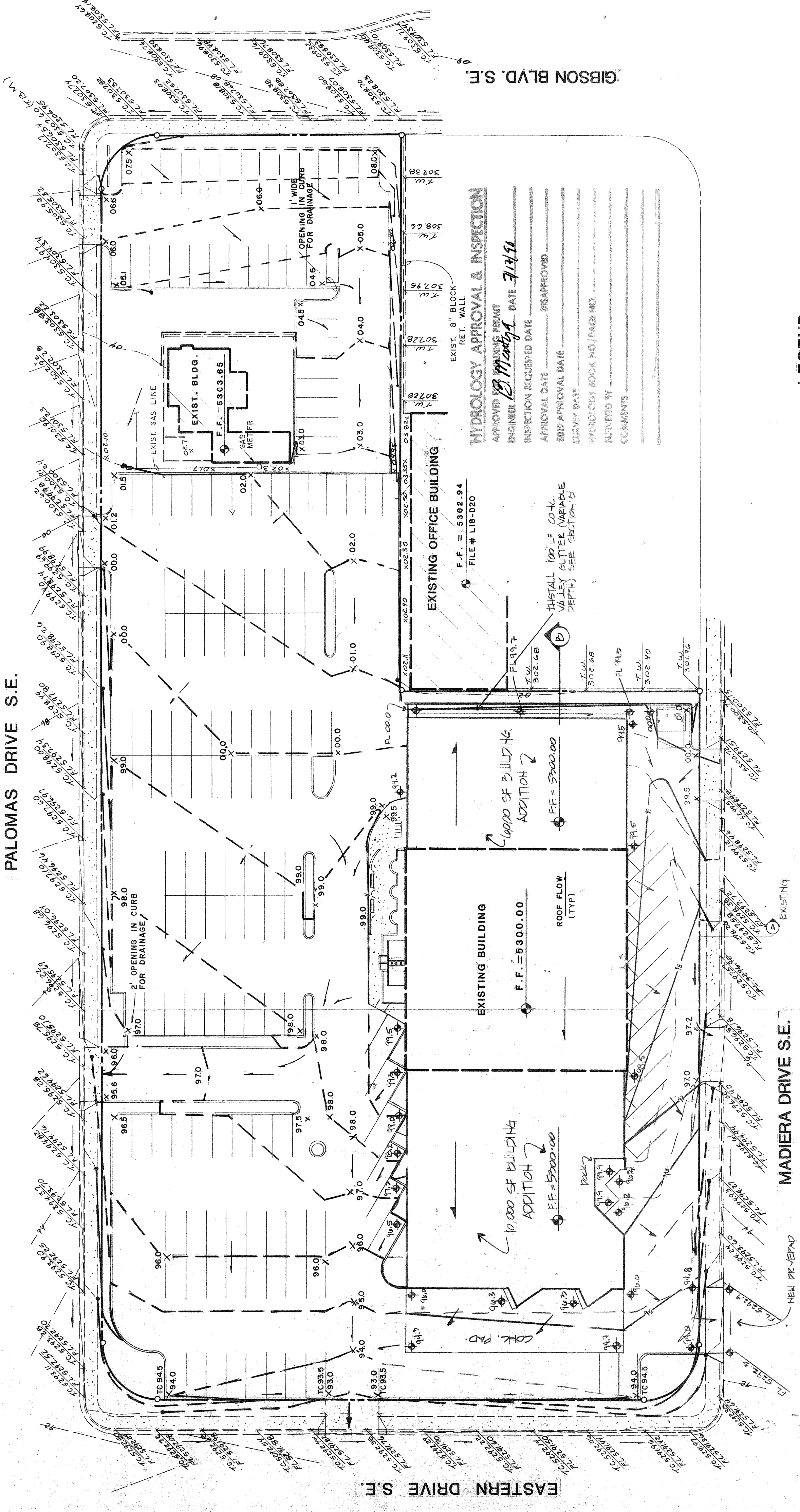
ENGINEERING GROUP

Telephone (505) 768-2500

AN EQUAL OPPORTUNITY EMPLOYER

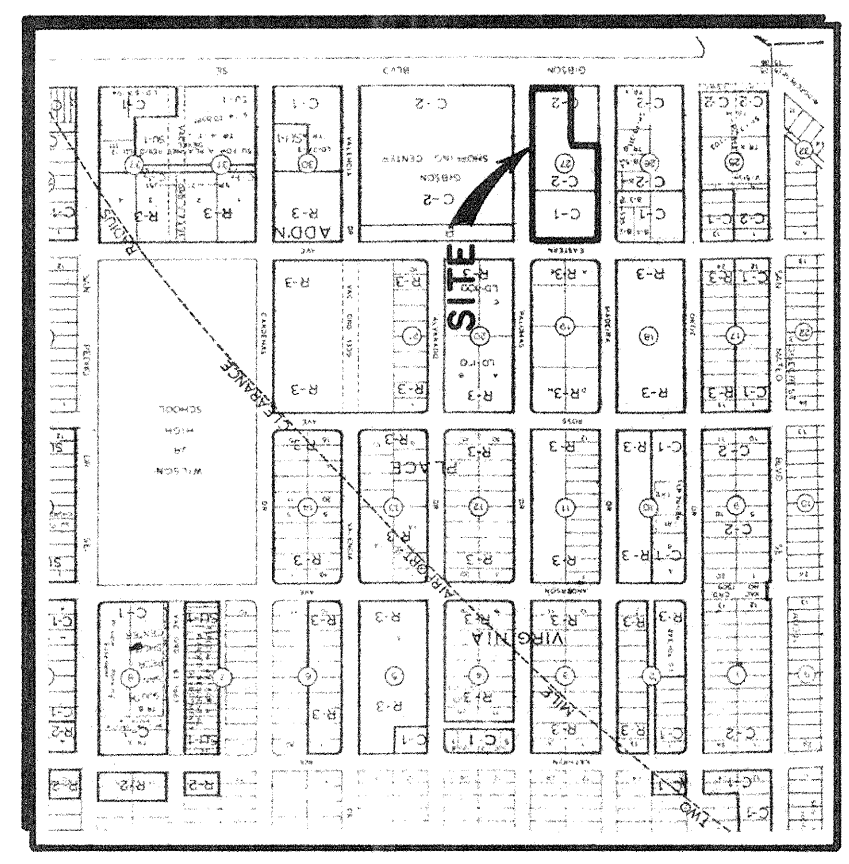
SCALE: 1" = 30'

PALOMAS DRIVE S.E.



MADERIA DRIVE S.E.

GIBSON BLVD. S.E.



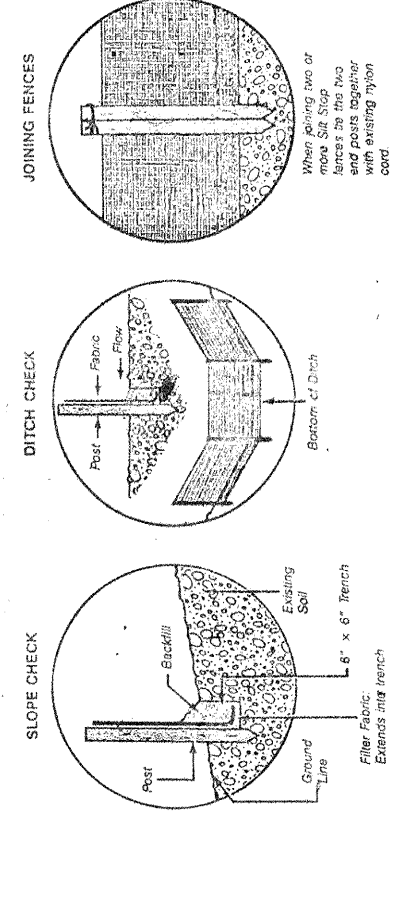
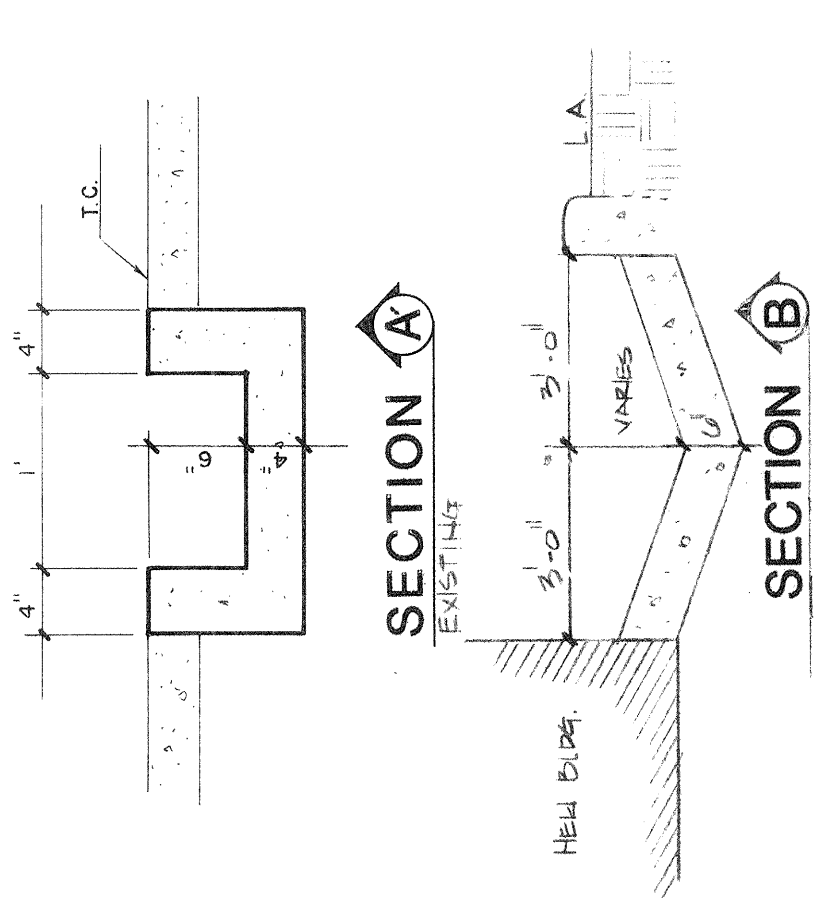
FLOOD HAZARD BOUNDARY MAP

VICINITY MAP L-18

LEGEND

- SIDEWALK, CURB & GUTTER (EXISTING, PROPOSED)
- PROPOSED ASPHALT
- BUILDING (EXISTING, PROPOSED)
- PROPERTY LINE
- EXISTING SPOT ELEVATION
- EXISTING CONTOUR
- PROPOSED SPOT ELEVATION
- PROPOSED CONTOUR
- SURFACE FLOW DIRECTION (EXISTING, PROPOSED)
- LANDSCAPED AREA
- TOP OF GRADE WALL (LESS THAN 18' HIGH)
- TOP OF RETAINING WALL (MORE THAN 18' HIGH)
- TOP OF ASPHALT
- TOP OF CURB
- FLOW LINE
- FINISHED FLOOR

- CONSTRUCTION NOTES:
- Before construction, the Contractor shall check and verify pertinent figures shown herein and shall make all applicable adjustments. If the Contractor determines that any discrepancy has been discovered, the Contractor shall notify the Engineer of the discrepancy. It is recommended that the Contractor consult with the Engineer prior to making any construction. The Contractor shall be responsible for following the plans using his best skill and attention. Any departure from the plans shall be approved in writing by the Engineer and the City Hydrology Department prior to construction.
 - The Contractor shall check the site plan for locations of existing utilities within or adjacent to streets and shall take these locations into consideration when planning and constructing. These utilities shall be marked with flags and shall be protected. The Contractor shall give 48 hours notice to the Engineering Service, 765-1234, for any work that may interfere with solid utilities.



SILT FENCE DETAIL

REVISED 9-85:
ADDITIONAL PARKING & DRIVE ADDED AT
SOUTH END OF PROPERTY BETWEEN
EXIST. HOUSE & GIBSON BLVD.

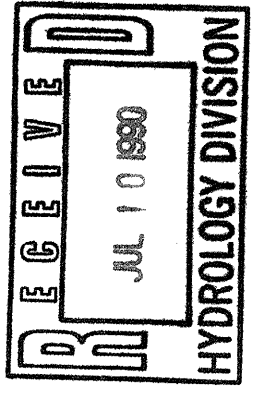
Chris Weiss 7-2-85

CHRIS WEISS DATE

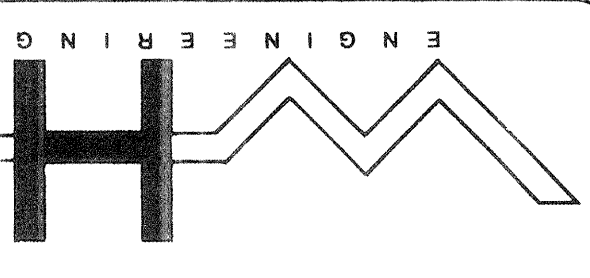
REVISED 5-90
ADDITIONAL 10,000 SF BUILDING TO REPLACE
EXISTING PARKING. RAINOFF CALCULATIONS
NOT NEEDED

Chris Weiss 5-24-90

CHRISTOPHER L. WEISS DATE



DRAINAGE / GRADING PLAN
5211 GIBSON BLVD. S.E.



SHEET 1 OF 1

DESIGNED WWC 8-85
DRAWN MW 8-85
CHECKED CW
DATE

REVISIONS

WEISS-HINES ENGINEERING INC.
1100 ALVARADO N.E. SUITE B
ALBUQUERQUE, NEW MEXICO 87110
(505) 266-3444

- SCOPE:
- The proposed improvements include expansion and repaving of the parking area, expansion and repaving of the driveway, and expansion and repaving of the existing asphalt will be removed and the whole lot repaved, with the installation of curb & gutter as shown on the plan.
- The intent of this plan is to show:
- Grading relationships between the existing ground elevations and proposed finished elevations in order to facilitate positive drainage to designated discharge points.
 - The extent of proposed site improvements, including buildings, walks and pavement.
 - The flow rate/volume of rainfall runoff across or around buildings, walks and pavement and how these flows will meet City requirements for drainage management.
 - The relationship of on-site improvements with existing neighboring property and an orderly transition between proposed and surrounding grades.

GENERAL NOTES:

LEGAL: Lot "C", Block 27 of Virginia Place Addition, Albuquerque, N.M.

SURVEY: Ross-Howard Company, Corrales, N.M. July, 1993

BLD: S.M. Bldg. at SW quadrant of the intersection of San Mateo & Gibson Blvd. Elevation = 5,319.975

T.M.M.: Top of curb at N.M.M. return at the intersection of Gibson & Palomas, S.E. Elevation = 5,307.60

SOILS: SCS Soils Map 831, Soil type "Wap", Soil Hydrologic Group "B"

FLOOD HAZARD: According to FEMA Map 951, the site does not lie in a flood hazard area, but runoff contributes to flood hazard area north of site.

OFF-SITE DRAINAGE: Flows are diverted away from site by the existing streets which surround it. The site is located between Gibson & Palomas S.E. corner divert flows from this area to Madiera St.

EROSION CONTROL: Contractor to be responsible for containing erosion during phased construction of asphalt pavement.

CALCULATIONS: Based on criteria established for the office building adjoining the west property of the 10,000 sq. ft. free discharge from the site is allowed due to the presence of the 10,000 sq. ft. retention pond and detention pond, which is planned for construction in the near future.

Calculations are based on the City of Albuquerque D.M. Manual, Vol. II for the 100 year-6 hour storm, using the Rational Formula to compare the existing and proposed runoff rates.

RATIONAL METHOD- Q = CIA

Area of site: 120,150 sq. ft. = 2.8 ac.

Run-off Coefficient:

Existing site:

Developed site:

A imp. = 1.6 ac
A imp. = 2.4 ac
C imp. = 56%
C imp. = 86%
C imp. = 0.61 (DPM 22.2 C-1)
C imp. = 0.82 (DPM 22.2 C-1)

Rainfall Intensity:

I = P_a (6.84) T_c^{-0.51} = 4.97" per hour
where T_c = 2.357 (DPM 22.2 D-1)
T_c = 10 minutes

Existing Condition:

Q₁₀₀ = (0.41)(4.97)(2.9) = 6.5 cfs
Q₁₀₀ = (11.4)(4.97)(2.8) = 11.4 cfs

Developed Condition:

Q₁₀₀ = (8)(507c)(60 sec/min)/2 = 12,750 cu. ft.
V₁₀₀ = (11.4)(60)(60)/2 = 20,736 cu. ft.

SUMMARY:

Q₁₀₀ = (11.4)(4.97) = 2.9 cfs (increase)
V₁₀₀ = (17,100)-(12,750) = 4,350 cu. ft. (increase)