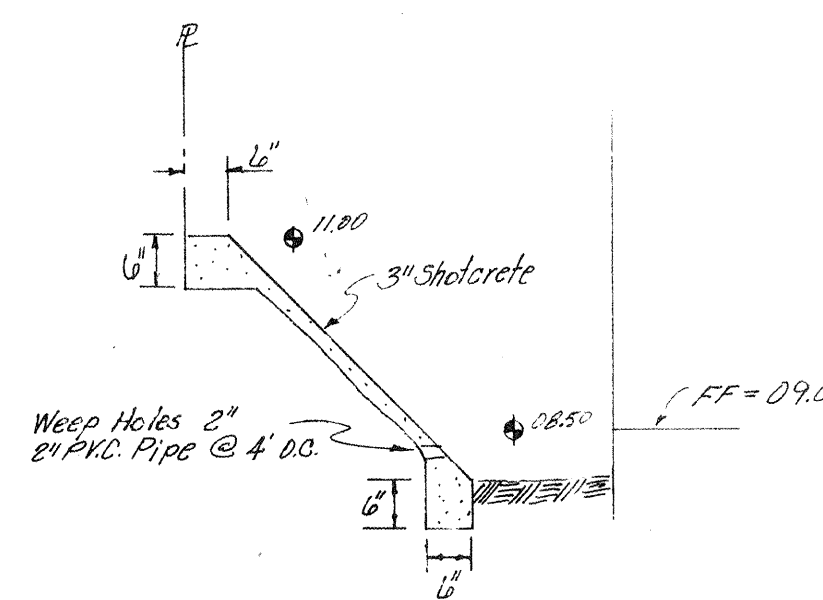
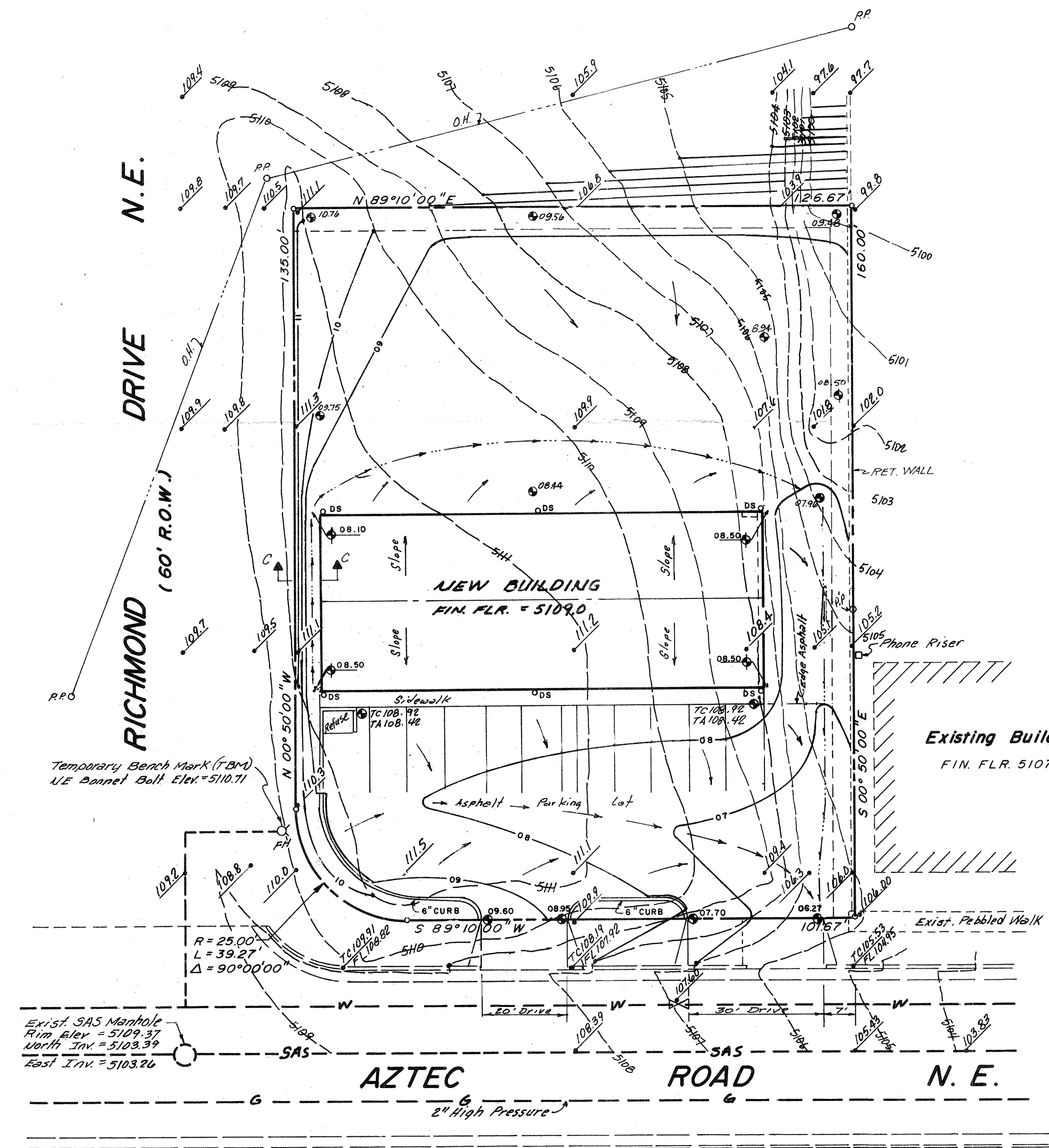
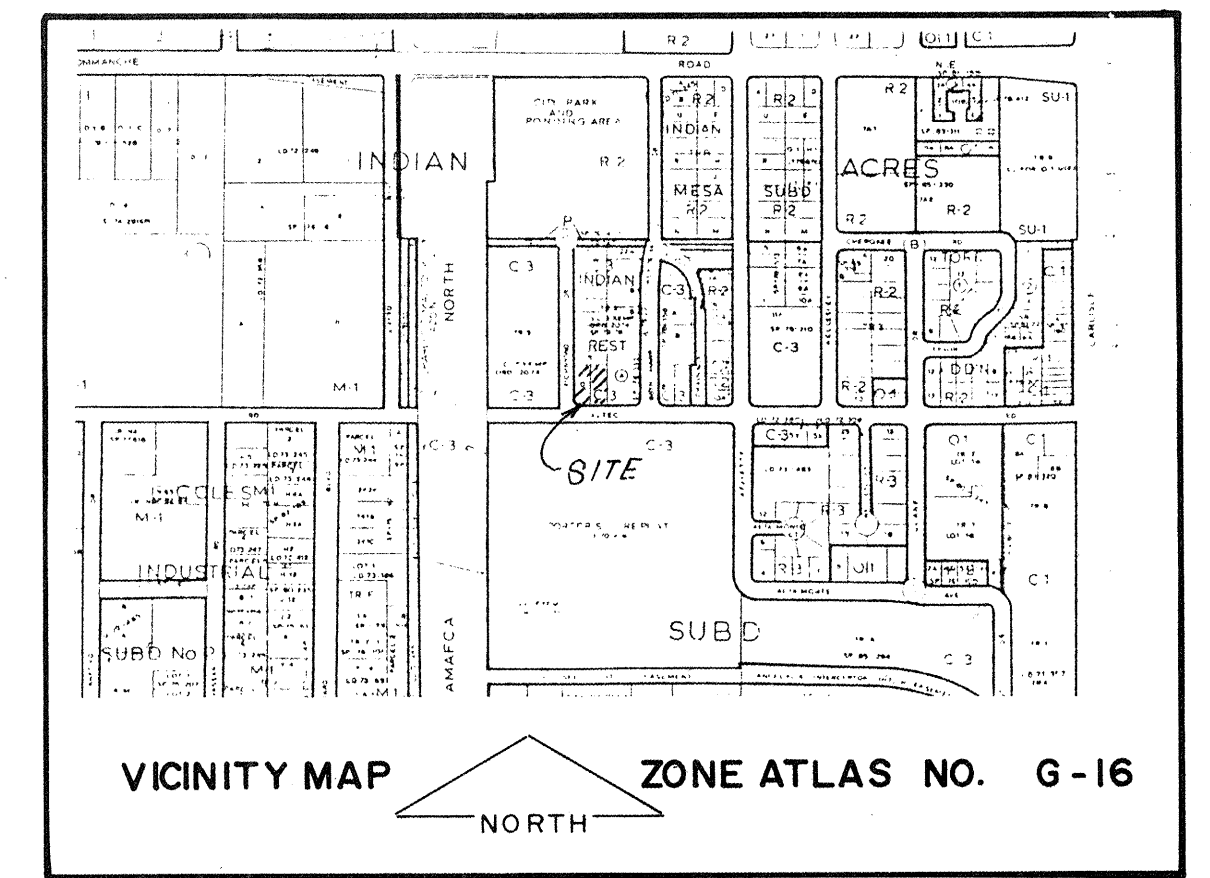
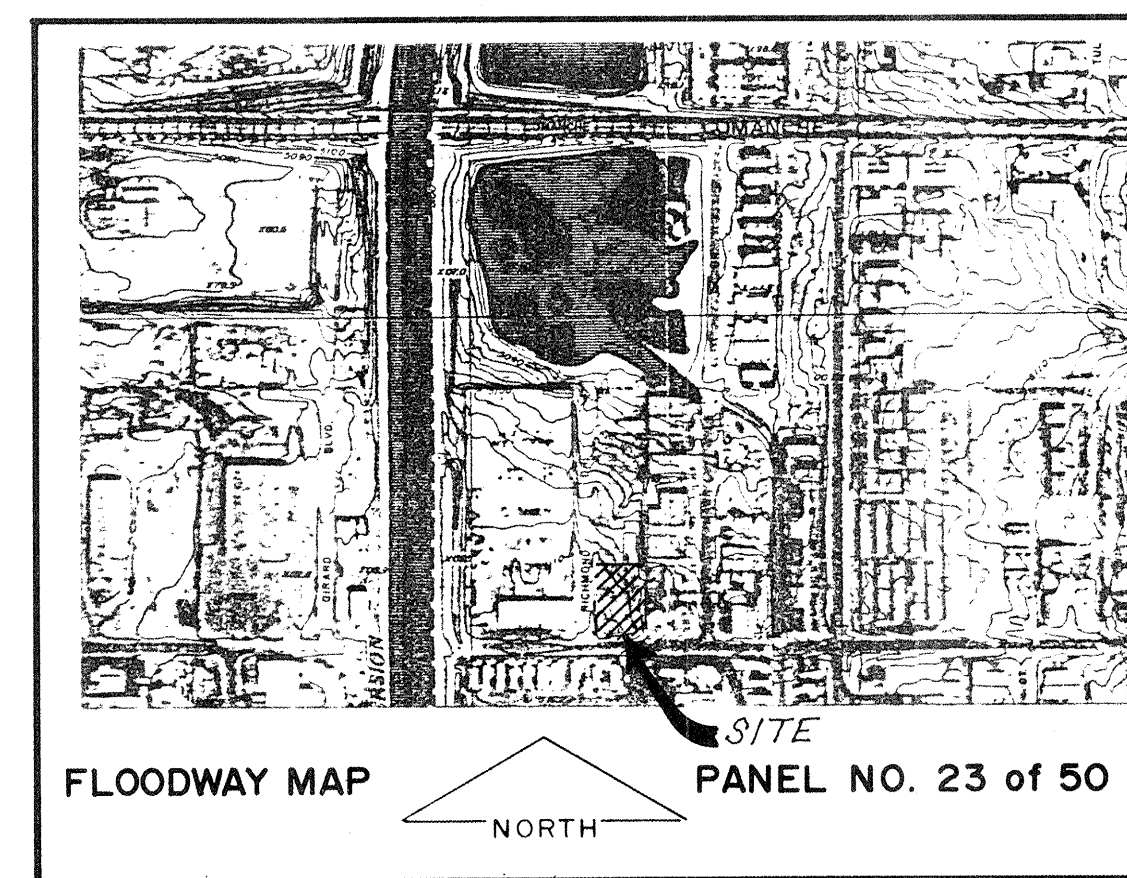


SCALE 1" = 20'

LEGEND

EXISTING	NEW	DESCRIPTION
1074	10	CONTOUR
	10770	SPOT ELEVATION
		CONCENTRATED FLOW
		SHEET FLOW
	TC	TOP OF CURB
	TA	TOP OF ASPHALT
	FL	FLOW LINE
	DS	DOWNSPOUT



SECTION C-C

1/2" = 1'-0"

PRE-DESIGN CONFERENCE FINDINGS:

1. AN APPROVED GRADING AND DRAINAGE PLAN IS REQUIRED PRIOR TO BUILDING PERMIT SIGNOFF BY HYDROLOGY.
2. FREE DISCHARGE TO AZTEC IS APPROVED IF BRYN MAWR DRAINS DIRECTLY TO THE EXISTING STORM DRAIN AT COMANCHE INTERSECTION.
3. IF DISCHARGE IS TO RICHMOND DRIVE OR BRYN MAWR DRAINS TO EXISTING FLOOD ZONE SOUTH OF COMANCHE, THEN DOWNSIDE ANALYSIS IS REQUIRED TO JUSTIFY ALLOWED DISCHARGE RATE.
4. REPLAT IS NOT REQUIRED IF BUILDING IS ACROSS BOTH EXISTING LOTS.
5. IMPROVEMENTS ARE NOT REQUIRED TO RICHMOND IF IT IS NOT USED FOR ACCESS OR DRAINAGE, BUT GRADING PLAN MUST BE COMPATIBLE WITH APPROVED RICHMOND GRADES, OR IF APPROVED GRADES DON'T EXIST, WITH POTENTIAL FUTURE DEVELOPED GRADES.

DRAINAGE COMMENTS:

1. THE SITE DOES NOT LIE WITHIN OR ADJACENT TO A DESIGNATED FLOOD HAZARD AREA.
2. THERE IS NO OFF-SITE ASSOCIATED WITH THIS SITE.
3. TO AVOID CONSTRUCTING A RETAINING WALL IN EXCESS OF 8 FEET HIGH AT THE N.E. CORNER OF THE SITE, A 1:1 SLOPE WITH A BERM AT THE TOP OF THE SLOPE IS PROPOSED. THE RUNOFF FROM THE SLOPE ITSELF WILL FOLLOW AN ESTABLISHED DRAINAGE PATTERN THAT RUNS NORTH ALONG THE N-S PROPERTY LINE THAT DIVIDES TRACT 2. THIS DRAINAGE WAY CONTINUES ALL THE WAY TO THE DESIGNATED CITY PONDING AREA.
4. SEE ARCHITECTURAL SITE PLAN FOR ALL DIMENSIONS OF BUILDING LOCATION AND PARKING LAYOUT.
5. THE DRAINAGE FROM THE SITE WILL ENTER AZTEC AND RUN TO BRYN MAWR, THE NEXT STREET TO THE EAST. IN BRYN MAWR IT RUNS NORTH TO A "DIP" WHERE DRAINAGE CROSSES THE STREET AT GRADE. THIS DIP CARRIES DRAINAGE FROM A FAIRLY EXTENSIVE DRAINAGE AREA TO THE CITY PARK AND PONDING AREA SOUTH OF COMANCHE AND ADJACENT TO THE NORTH DIVERSION CHANNEL. THE PONDING AREA IS CONNECTED TO THE PONDING AREA NORTH OF COMANCHE WHICH IS PUMPED INTO THE NORTH DIVERSION CHANNEL.
6. THERE ARE NO APPROVED STREET GRADES FOR RICHMOND DRIVE. FROM FIELD OBSERVATION OF THE STREET AND ADJACENT PROPERTIES IT IS APPARENT THAT THE EXISTING GRADE OF THE STREET IS ADEQUATE. NO ADJUSTMENT OF THE STREET GRADE, EITHER UP OR DOWN, WOULD SERVE ANY PARTICULAR PURPOSE.

LEGAL DESCRIPTION:

LOTS NUMBERED TEN (10) AND ELEVEN (11) IN BLOCK NUMBERED TWO (2) OF INDIAN REST, AN ADDITION TO THE CITY OF ALBUQUERQUE, NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED IN THE PLAT OF THE SUBDIVISION OF TRACT 2 AND THE WEST HALF OF TRACT 1, BLOCK "B" OF INDIAN ACRES SUBDIVISION AND REPLAT OF TRACTS 1 AND 2 OF INDIAN REST, FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO, ON FEBRUARY 21, 1962.

BENCH MARK:

CITY OF ALBUQUERQUE BENCH MARK 3-G16, LOCATED IN THE NORTHEAST QUADRANT OF THE INTERSECTION OF AZTEC ROAD AND LAFAYETTE DRIVE, N.E. ELEV. 5099.401.

DRAINAGE CALCULATIONS

SOIL INFORMATION: (REFER TO SCS SOIL SURVEY OF BERNALILLO COUNTY)

SOIL IS WEb OR EmB, HYDROLOGIC SOIL GROUP "B".

RAINFALL, 100-YEAR, 6-HOUR: (REFER TO D.P.M. PLATE 22.2 D-1)

$R_6 = 2.2$ INCHES.

TIME OF CONCENTRATION: (REFER TO D.P.M. SECTION 22.2, PAGE 3)
TEN MINUTES, MINIMUM TIME OF CONCENTRATION.

RAINFALL INTENSITY: (REFER TO PLATE 22.2 D-2)

$I = R_6 \times 6.84 \times T_c^{-0.51} = 2.2 \times 6.84 \times (10)^{-0.51} = 4.65$ INCHES PER HOUR.

CURVE NUMBERS: (REFER TO D.P.M. PLATE 22.2 C-2)

	CN	EXISTING AREA	NEW AREA
EXISTING PAVEMENT	70	20133	10743
BUILDINGS AND PAVEMENT	98	-	9040
LANDSCAPING	61	-	350
UNPAVED GRAVEL	85	-	-
UNPAVED DIRT	82	-	-
TOTAL AREAS		20133 = 0.462 AC	20133

WEIGHTED CURVE NUMBER (CN_w):

EXISTING CN_w = 70 DEVELOPED CN_w = 82

DIRECT RUNOFF: (REFER TO D.P.M. PLATE 22.2 C-4)

EXISTING Q_d = 0.35 DEVELOPED Q_d = 0.75

RUNOFF COEFFICIENTS: (REFER TO "NOTICE OF EMERGENCY RULE", CITY OF ALBUQUERQUE, JANUARY 14, 1986).

	"C"	EXISTING AREA	NEW AREA
UNDEVELOPED	0.40	20133	10743
LAWNS AND LANDSCAPING	0.25	-	350
ROOFS	0.90	-	4000
STREETS, DRIVES, WALKS	0.95	-	5040
TOTAL AREAS		20133	20133

WEIGHTED "C" FACTORS: EXISTING "C" = 0.40 DEVELOPED "C" = 0.63

EXISTING CONDITIONS:

RUNOFF BY RATIONAL EQUATION, Q = CIA

Q = 0.40 X 4.65 X 0.462 = 0.86 CFS

VOLUME BY SCS METHOD, V = A(Q_d / 12), WHERE A = AREA IN SQUARE FEET.

V = 20133 (0.35 / 12) = 587 CF

DEVELOPED CONDITIONS:

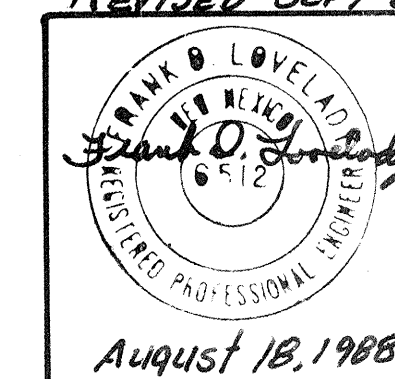
Q = 0.63 X 4.65 X 0.462 = 1.35 CFS

V = 20133 (0.75 / 12) = 1258

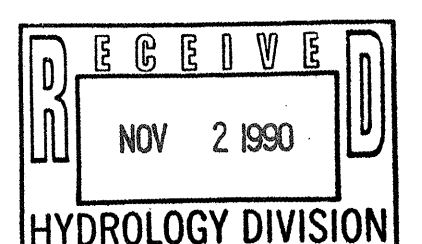
EROSION CONTROL PLAN:

DURING CONSTRUCTION OF THE BUILDING, ALL RUNOFF FROM THE SITE SHALL BE CONTAINED BY THE USE OF A POND, BERM OR OTHER SUITABLE CONTAINMENT FACILITIES CAPABLE OF RETAINING THE TEN YEAR UNDEVELOPED RUNOFF VOLUME.

REVISED OCT. 29, 1990
REVISED SEPT 9, 1988
REVISED SEPT 6, 1988



GRADING AND DRAINAGE PLAN
THE UNIQUE BATH SHOP
AZTEC ROAD AND RICHMOND DRIVE, N.E.
ALBUQUERQUE, NEW MEXICO



FILE COPY



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

November 13, 1990

Frank Lovelady
Lovelady & Associates
7408 Morrow Avenue NE
Albuquerque, New Mexico 87112

RE: REVISED DRAINAGE PLAN FOR THE UNIQUE BATH SHOP (G-16/D100)
REVISION DATED OCTOBER 29, 1990

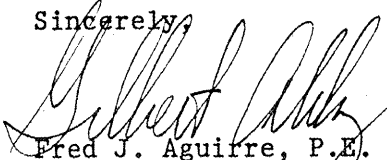
Dear Mr. Lovelady:

Based on the information provided on your November 2, 1990 resubmittal, the above referenced drainage plan is approved for Certificate of Occupancy.

The Certificate of Occupancy office will be notified of the clearance by Hydrology.

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

Sincerely,

Fol 
Fred J. Aguirre, P.E.
Hydrology Division

cc: Alan Martinez, Inspector

FJA:BJM:jc
WP+855

PUBLIC WORKS DEPARTMENT

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

ENGINEERING GROUP

Telephone (505) 768-2500

AN EQUAL OPPORTUNITY EMPLOYER

DRAINAGE INFORMATION SHEET

PROJECT TITLE: The Unique Bath Shop ZONE ATLAS/DRNG. FILE #: G-16/ D-100LEGAL DESCRIPTION: Lots 10 & 11, Block 2 of Indian Rest Addition

CITY ADDRESS: _____

ENGINEERING FIRM: Lovelady & Associates CONTACT: Frank LoveladyADDRESS: 7408 Morrow Ave. NE 87110 PHONE: 883-7973OWNER: The Unique Bath Shop CONTACT: Floyd ValdezADDRESS: _____ PHONE: 243-5479ARCHITECT: Agribuilding Company CONTACT: Ken DubeyADDRESS: 4330 Broadway SE PHONE: 877-4155SURVEYOR: Southwest Surveying Co. CONTACT: Dan GraneyADDRESS: 333 Lomas Blvd. NE PHONE: 247-4444CONTRACTOR: Agribuilding Company CONTACT: Ken DubeyADDRESS: 4330 Broadway SE PHONE: 877-4155

PRE-DESIGN MEETING:

☒ YES☐ NO☒ COPY OF CONFERENCE RECAP
SHEET PROVIDED

DRB NO. _____

EPC NO. _____

PROJECT NO. _____

TYPE OF SUBMITTAL:

☐ DRAINAGE REPORT☒ DRAINAGE PLAN☐ CONCEPTUAL GRADING & DRAIN. 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: NOV 1, 1990BY: Frank D. Lovelady, P.E.

Rev. 11/84

103