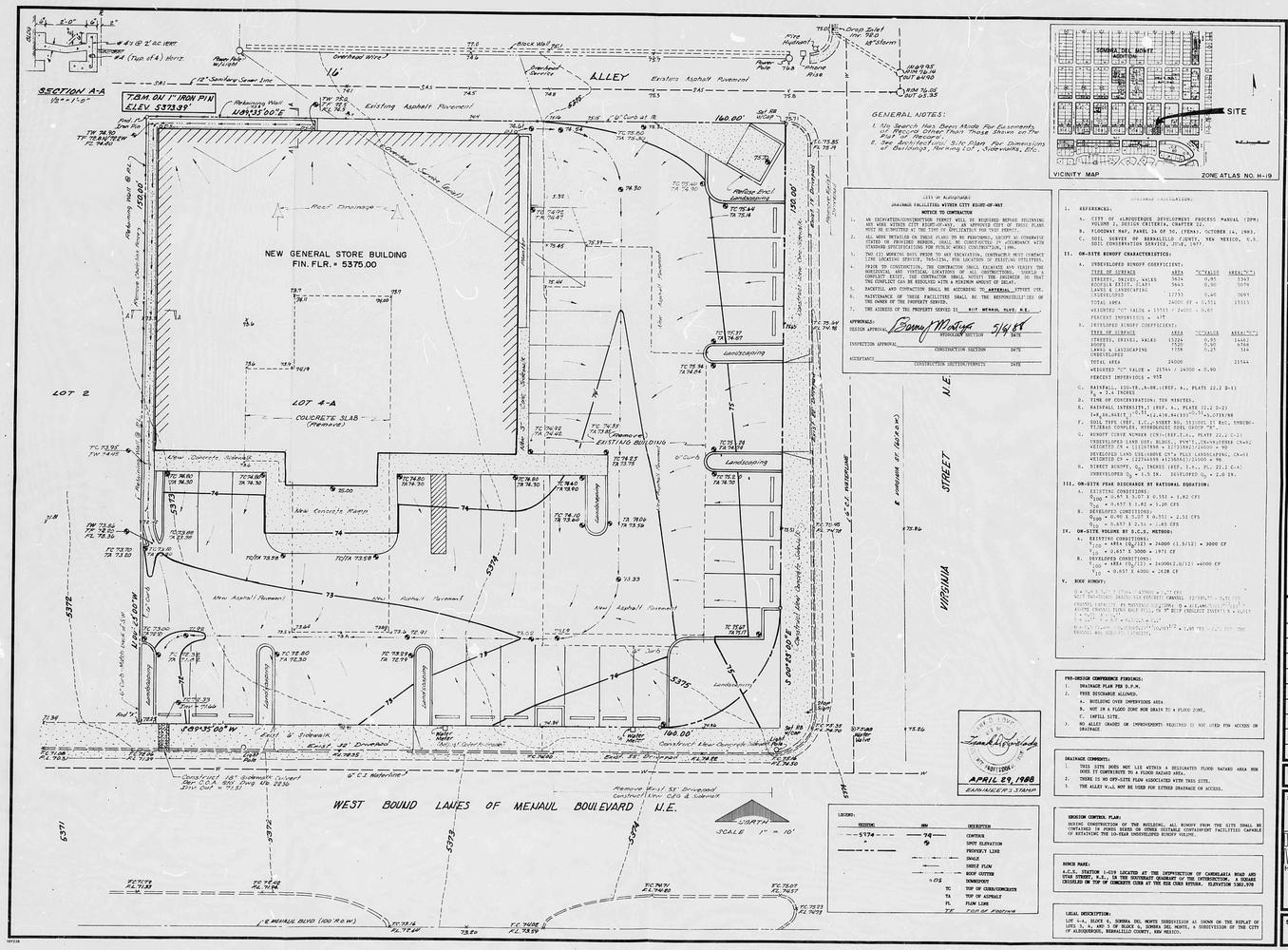

GENERAL NOTES:

1. No Search Has Been Made For Easements, Record Other Than Those Shown on the Plat (Record).
2. For Architectural Site Plan for Dimensions of Buildings, Parking Lot, Sidewalks, Etc.

LIST OF ALBUQUERQUE
DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY
NOTICE TO CONTRACTOR

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE NOTED, SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARDS CONTAINED IN THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986.
3. THE (2) 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 FACSIMILE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST WITH PROPOSED IMPROVEMENTS, THE ENGINEER MUST BE THE ONE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. BACKFILL AND COMPACTION SHALL BE ACCORDING TO ARTERIAL STREET USE.
6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITIES OF THE OWNER OF THE PROPERTY SERVED.
7. THE ADDRESS OF THE PROPERTY SERVED IS 8117 MENAUL BLVD. N.E.

APPROVALS:
DESIGN APPROVAL: Barry McCuistion 5/4/88
HYDROLOGY SECTION DATE
INSPECTION APPROVAL
CONSTRUCTION SECTION DATE
ACCEPTANCE
CONSTRUCTION SECTION/PERMITS DATE

APRIL 29, 1988
EARNEST'S STAMP

LEGEND: EXISTING	NEW	DESCRIPTION
5374	74	CONTOUR
x	x	SPOT ELEVATION
		PROPERTY LINE
		SWALE
		DIRECT FLOW
		ROOF GUTTER
		DOWNSPOUT
	TC	TOP OF CURB/CONCRETE
	TA	TOP OF ASPHALT
	FL	FLOW LINE
	TF	TOP OF FOOTING

DRAINAGE CALCULATIONS:

I. REFERENCES:
   A. CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL (DPM) VOLUME 2, DESIGN CRITERIA, CHAPTER 22.
   B. FLOODWAY MAP, PANEL 24 OF 50, (FEMA), OCTOBER 14, 1983.
   C. SOIL SURVEY OF BERNALILLO COUNTY, NEW MEXICO, U.S. SOIL CONSERVATION SERVICE, JUNE, 1977.

II. ON-SITE RUNOFF CHARACTERISTICS:
   A. UNDEVELOPED RUNOFF COEFFICIENT:

TYPE OF SURFACE	AREA	"C" VALUE	AREA("C")
STREETS, DRIVES, WALKS	3424	0.95	3253
ROOFS & EXIST. SLABS	5643	0.90	5079
ROOFS & CONCRETE/ASPHALT			
LANDSCAPING	12753	0.40	5093
TOTAL AREA	24000 SF	= 0.551	13315

   WEIGHTED "C" VALUE = 13315 / 24000 = 0.65
   PERCENT IMPERVIOUS = 49%
   B. DEVELOPED RUNOFF COEFFICIENT:

TYPE OF SURFACE	AREA	"C" VALUE	AREA("C")
STREETS, DRIVES, WALKS	15224	0.95	14462
ROOFS	7520	0.90	6768
ROOFS & LANDSCAPING	1356	0.25	339
UNDEVELOPED			
TOTAL AREA	24000		21544

   WEIGHTED "C" VALUE = 21544 / 24000 = 0.90
   PERCENT IMPERVIOUS = 95%
   C. RAINFALL, 100-YR.,6-HR.(REF. A., PLATE 22.2 D-1) $P_6 = 2.4$ INCHES
   D. TIME OF CONCENTRATION: TEN MINUTES.
   E. RAINFALL INTENSITY: (REF. A., PLATE 22.2 D-2) $I = P_6 / 6 = 2.4/6 = 0.4$ IN/HR; $I_{100} = 1.5 + (4.4 \times 0.4) / (10)^{0.5} = 4.5$ IN/HR
   F. SOIL TYPE (REF. U.C., SHEET NO. 5310101.01 RAC, ENGINEERING COUPLET, HYDROLOGIC SOIL GROUP "B")
   G. RUNOFF CURVE NUMBER (CN):(REF.U.A., PLATE 22.2, C-2)
      UNDEVELOPED LAND USE: BLDGS., EVPT. CN=98;OTHER CN=61
      WEIGHTED CN = (0.5126766 × 1273336)/2160000 = 92
      DEVELOPED LAND USE:ROOFS CN'S PLUS LANDSCAPING, CN=61
      WEIGHTED CN = (2274448 +1236864)/24000 = 96.
   H. DIRECT RUNOFF, Q_p INCHES (REF. U.A., PL. 22.2 C-4)
      UNDEVELOPED Q_p = 1.5 IN. DEVELOPED Q_p = 2.0 IN.

III. ON-SITE FLOW DISCHARGE BY RATIONAL EQUATION:
   A. EXISTING CONDITIONS:
      $Q_{100} = 0.65 \times 3.07 \times 0.551 = 1.82$ CFS
      $Q_{10} = 0.65 \times 1.82 = 1.20$ CFS
   B. DEVELOPED CONDITIONS:
      $Q_{100} = 0.90 \times 3.07 \times 0.551 = 2.51$ CFS
      $Q_{10} = 0.65 \times 2.51 = 1.63$ CFS

IV. ON-SITE VOLUME BY S.C.S. METHOD:
   A. EXISTING CONDITIONS:
      $V_{100} = AREA (Q_p/12) = 24000 (1.5/12) = 3000$ CF
      $V_{10} = 0.65 \times 3000 = 1971$ CF
   B. DEVELOPED CONDITIONS:
      $V_{100} = AREA (Q_p/12) = 24000(2.0/12) =4000$ CF
      $V_{10} = 0.65 \times 4000 = 2628$ CF

V. ROOF RUNOFF:
   [illegible]
   WITH TWO-TONGUE DRAINS:(SEE CONCRETE CANOPY, [illegible]
   PROJECT CAPACITY: BY MANUFACTURER (TYPE) [illegible]
   ALONG PERIMETER, TOPS MAY FILL UP TO 3" DEEP (REQUIRED DEPTH 3.4 [illegible]
   [illegible]
   [illegible] = 1.49 CFS [illegible] THE ORIGINAL MAX. [illegible] CAPACITY.

PRE-DESIGN CONFERENCE FINDINGS:
1. DRAINAGE PLAN PER D.P.M.
2. FREE DISCHARGE ALLOWED.
   A. BUILDING OVER IMPERVIOUS AREA
   B. NOT IN A FLOOD ZONE NOR DRAIN TO A FLOOD ZONE.
   C. INFILL SITE.
3. NO ALLEY GRADES OR IMPROVEMENTS REQUIRED SI NOT USED FOR ACCESS OR DRAINAGE.

DRAINAGE COMMENTS:
1. THIS SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD AREA NOR DOES IT CONTRIBUTE TO A FLOOD HAZARD AREA.
2. THERE IS NO OFF-SITE FLOW ASSOCIATED WITH THIS SITE.
3. THE ALLEY WILL NOT BE USED FOR EITHER DRAINAGE OR ACCESS.

EROSION CONTROL PLAN:
DURING CONSTRUCTION OF THE BUILDING, ALL RUNOFF FROM THE SITE SHALL BE CONTAINED IN FORMS DIKES OR OTHER SUITABLE CONTAINMENT FACILITIES CAPABLE OF RETAINING THE 100-YEAR UNDEVELOPED RUNOFF VOLUME.

BENCH MARK:
A.C.S. STATION 1-019 LOCATED AT THE INTERSECTION OF CARDELARIA ROAD AND 98TH STREET, N.E., IN THE SOUTHEAST QUADRANT OF THE INTERSECTION. A DISKAE CHISELED ON TOP OF CONCRETE CURB AT THE ESE CURB RETURN. ELEVATION 5382.978

LEGAL DESCRIPTION:
LOT 4-A, BLOCK 4, SONDRA DEL MONTE SUBDIVISION AS SHOWN ON THE REPLAT OF LOTS 3, 4, AND 5 OF BLOCK 4, SONDRA DEL MONTE, A SUBDIVISION OF THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

GRADING AND DRAINAGE PLAN
THE GENERAL STORE
8117 MENAUL BLVD. N.E.
ALBUQUERQUE, NEW MEXICO

PROJECT
REVISIONS
DATE
SHEET TITLE
RECEIVED MAY 0 2 1988 HYDROLOGY SECTION
SHEET NO.

BK 21 DATE 2284530 LSP
CITY OF ALBUQUERQUE
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CITY CLERK RECORDER
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CITY OF ALBUQUERQUE
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PLANS/PLATS ON FILE

FILE DESC: H-19/D048

PLANS/PLATS 1

F 30 D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D F