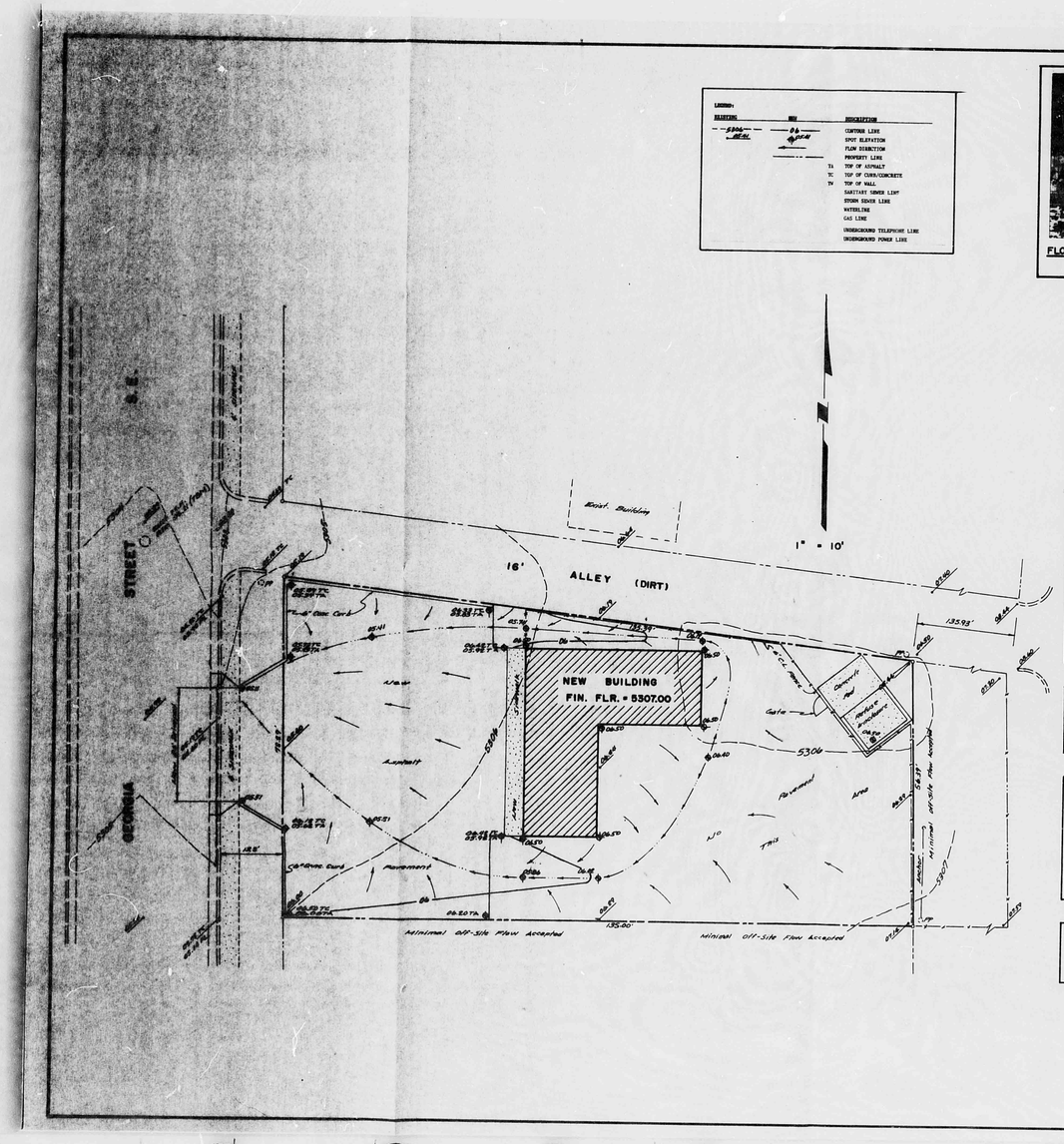
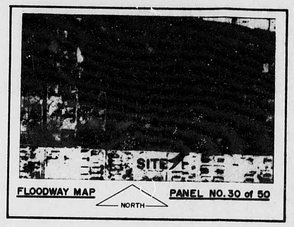
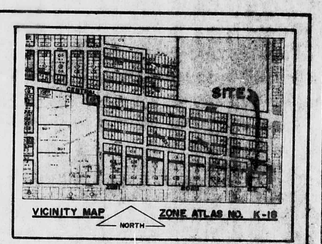






LEGEND

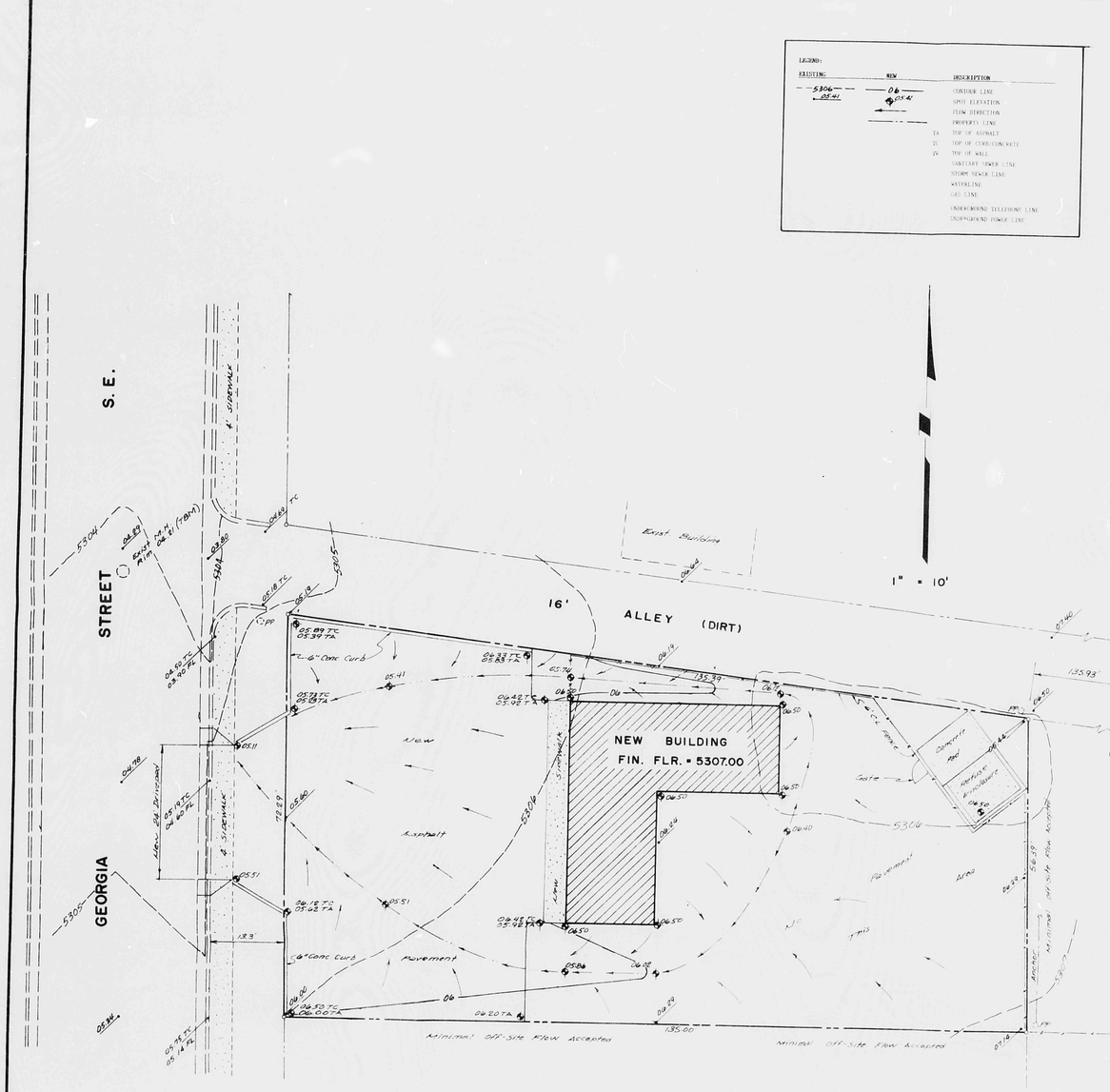
EXISTING	PROP.	DESCRIPTION
— 5295 —	— 5295 —	CONTOUR LINE
		SPOT ELEVATION
		FLOW DIRECTION
		PROPERTY LINE
	TA	TOP OF ASPHALT
	TC	TOP OF CURB/CONCRETE
	TW	TOP OF WALL
		SANITARY SEWER LINE
		STORM SEWER LINE
		WATERLINE
		GAS LINE
		UNDERGROUND TELEPHONE LINE
		UNDERGROUND POWER LINE

PRE-DESIGN CONFERENCE FINDINGS:

1. DRAINAGE PLAN PER D.P.M. REQUIREMENTS.
2. SITE NOT WITHIN A DESIGNATED FLOOD ZONE. FLOODING DOWNSTREAM TAKING PLACE.
3. SITE ADJACENT TO ALLEY (PUBLIC). IF ALLEY IS UNIMPROVED AND IS GOING TO BE USED FOR DRAINAGE AND ACCESS, APPROVED ALLEY GRADES AND IMPROVEMENTS REQUIRED.
4. FREE DISCHARGE MAY BE APPROPRIATE. ENGINEER MUST ADDRESS:
   A. INFILL SITE.
   B. FAIRGROUNDS IMPROVEMENTS MAY HAVE TAKEN CARE OF STREET FLOODING.
   C. STORM DRAIN FACILITIES DOWNSTREAM AT SAN PEDRO AND ZUNI, SE AND AT ACOMA AND SAN PEDRO, SE.

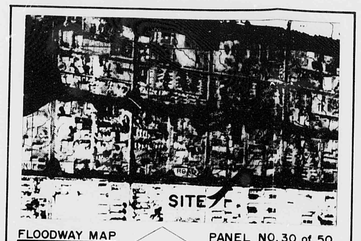
DRAINAGE COMMENTS:

1. THIS DRAINAGE PLAN CONFORMS TO THE REQUIREMENTS OF THE CITY OF

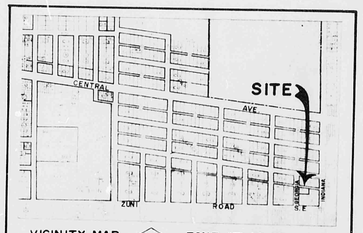


LEGEND:

EXISTING	NEW	DESCRIPTION
5306 05.41	06 05.41	CONTOUR LINE
		SPOT ELEVATION
		FLOW DIRECTION
		PROPERTY LINE
TA		TOP OF ASPHALT
TC		TOP OF CURB/CONCRETE
TW		TOP OF WALL
		SANITARY SEWER LINE
		STORM SEWER LINE
		WATERLINE
		GAS LINE
		UNDERGROUND TELEPHONE LINE
		UNDERGROUND POWER LINE



FLOODWAY MAP — NORTH — PANEL NO. 30 of 50



VICINITY MAP — NORTH — ZONE ATLAS NO. K-18

PRE-DESIGN CONFERENCE FINDINGS:

1. DRAINAGE PLAN PER D.P.M. REQUIREMENTS.
2. SITE NOT WITHIN A DESIGNATED FLOOD ZONE. FLOODING DOWNSTREAM TAKING PLACE.
3. SITE ADJACENT TO ALLEY (PUBLIC). IF ALLEY IS UNIMPROVED AND IS GOING TO BE USED AS A PRIMARY ACCESS, IMPROVED ALLEY GRADES AND IMPROVEMENTS NEED TO BE.
4. FREE DISCHARGE MAY BE APPROPRIATE. ENGINEER MUST ADDRESS:
   A. DETAIL SITE.
   B. SURROUNDING IMPROVEMENTS MAY HAVE TAKEN CARE OF STREET FLOODING.
   C. STORM DRAIN FACILITIES DOWNSTREAM AT SAN PEDRO AND ZUNI, SE AND AT ACOMA AND SAN PEDRO, SE.

DRAINAGE COMMENTS:

1. THIS DRAINAGE PLAN CONFORMS TO THE REQUIREMENTS OF THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL.
2. THE SITE DOES NOT LIE WITHIN OR ADJACENT TO A DESIGNATED FLOOD HAZARD AREA. STREET IS A DOWNSTREAM FLOOD ZONE ON ACOMA STREET, HOWEVER, THE FLOOD CONTROL DETENTION FACILITY, INTERSECTS SOME OF THE FLOW THAT PREVIOUSLY CONTRIBUTED TO FLOODING IN ACOMA STREET. ALSO, THERE IS A NEW STORM DRAIN WHICH HAS RECENTLY AT THE INTERSECTIONS OF ZUNI AND SAN PEDRO AND ACOMA AND SAN PEDRO.
3. THIS DEVELOPMENT IS EXEMPTED FOR THE FOLLOWING REASONS:
   A. SITE IS LESS THAN 15 ACRES IN CASTLE SITE.
   B. FAIRGROUNDS DETENTION FACILITY HAS REDUCED THE FLOW QUANTITIES IN ACOMA STREET.
   C. STORM DRAINAGE FACILITIES DOWNSTREAM AT SAN PEDRO AND ZUNI AND SAN PEDRO AND ACOMA WILL INTERCEPT FLOWS FROM THE SITE.
4. THERE ARE NO SIGNIFICANT OFF-SITE FLOW, MINOR OR INCONSEQUENTIAL OFF-SITE FLOW IS ACCEPTED.
5. ALL SITE DRAINAGE WILL DISCHARGE THROUGH THE DRIVEWAY.
6. THE ALLEY WILL NOT BE USED FOR ACCESS OR FOR DRAINAGE. ONLY THE NATURAL RUNOFF WILL BE RECEIVED FROM THE ALLEY AND IT WILL DRAIN BACK ON THE PROPERTY.

EROSION CONTROL PLAN:

THIS FACILITY WILL BE CONSTRUCTED PRIOR TO THE THREE MONTHS OF THUNDER STORMS. THEREFORE, DURING CONSTRUCTION, PONDING SHALL BE PROVIDED FOR THE 10-YEAR 6-HOUR STORM VOLUME, 7,900 CF. ALL SITE FLOW SHOULD BE ROUTED THROUGH THIS POND AND THE POND SIDE SHOULD HAVE A MINIMUM ELEVATION OF 0.50' FREEBOARD ABOVE THE CALCULATED MAXIMUM WATER LEVEL.

CONSTRUCTION NOTES:

1. THE 72 WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE AT 765-1234 FOR LOCATION OF EXISTING UTILITIES.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL UTILITY CONFLICTS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
4. ALL CONSTRUCTION WITHIN CITY RIGHTS-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND SPECIFICATIONS.

GENERAL NOTES:

1. SEE SITE PLAN FOR DIMENSIONS OF PARKING LAYOUT, BUILDING, ETC.
2. NO VARIANCE HAS BEEN MADE FOR EASEMENTS OF RECORD OTHER THAN THOSE SHOWN ON THE PLAT OF RECORD.

DRAINAGE CALCULATIONS

I. REFERENCES:

A. CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL (DPM) VOLUME 2, DESIGN CRITERIA, CHAPTER 22.
B. FLOODWAY MAP, PANEL 30 OF 50, (FEMA), OCTOBER 14, 1983.
C. S.C.S. SURVEY OF BERNALILLO COUNTY, NEW MEXICO, U.S. SOIL CONSERVATION SERVICE, JUNE, 1977.

II. ON-SITE RUNOFF CHARACTERISTICS:

A. UNDEVELOPED RUNOFF COEFFICIENTS:

TYPE OF SURFACE	AREA	"C" VALUE	AREA("C")
STREETS, DRIVES, WALKS	-		
ROOFS	-		
LAWNS & LANDSCAPING	-		
UNDEVELOPED	-		
TOTAL AREA	8686 = 0.1866 AC		

WEIGHTED "C" VALUE = 0.40
PERCENT IMPERVIOUS = 0 %

B. DEVELOPED RUNOFF COEFFICIENTS:

TYPE OF SURFACE	AREA	"C" VALUE	AREA("C")
STREETS, DRIVES, WALKS	3316	0.95	3150
ROOFS	992	0.90	893
LAWNS & LANDSCAPING	1600	0.25	400
UNDEVELOPED	2778	0.40	1111
TOTAL AREA	8686		5554

WEIGHTED "C" VALUE = 5554 / 8686 = 0.64
PERCENT IMPERVIOUS = 50 %

C. RAINFALL, 100-YR.-6-HR.: (REF. A., PLATE 22.2 D-1) P_6 = 2.35 INCHES
D. TIME OF CONCENTRATION: TEN (10) MINUTES.
E. RAINFALL INTENSITY, I (REF. A., PLATE 22.2 D-2)
$I = P_6 \cdot 44.61(T_c)^{-0.51} = 2.35 \cdot 44.61(10)^{-0.51} = 4.97$ IN/HR
F. SOIL TYPE: CRIF, T.C., SHEET NO. 31:SOIL IS WeB, WINK-COMOSO COMPLEX, HYDROLOGIC SOIL GROUP "B".
G. RUNOFF CURVE NUMBER (CN): (REF. A., PLATE 22.2 C-1)
UNDEVELOPED LAND USE: POOR PASTURE OR RANGE LAND.
UNDEVELOPED CN = 79
DEVELOPED LAND USE: BUSINESS OR COMMERCIAL. 50% IMP.
DEVELOPED CN = (4308 x 98 + 4378 x 79)/8686 = 88
H. DIRECT RUNOFF, Q_D: INCHES (REF. A., FL. 22.2 C-4)
UNDEVELOPED Q_D = 0.80 IN. DEVELOPED Q_D = 1.30 IN.

III. ON-SITE PEAK DISCHARGE BY RATIONAL EQUATION:

A. EXISTING CONDITIONS:
$Q_{100} = 0.40 \times 4.97 \times 0.19 = 0.38$ CFS
$Q_{10} = 0.65 \times 0.19 = 0.25$ CFS
B. DEVELOPED CONDITIONS:
$Q_{100} = 0.64 \times 4.97 \times 0.19 = 0.60$ CFS
$Q_{10} = 0.97 \times 0.19 = 0.39$ CFS

IV. ON-SITE VOLUME BY S.C.S. METHOD:

A. EXISTING CONDITIONS:
$V_{100} = AREA\ (Q_D/12) = 8686\ (0.80/12) = 579$ CF
$V_{10} = 0.65 \times 579 = 380$ CF
B. DEVELOPED CONDITIONS:
$V_{100} = AREA\ (Q_D/12) = 8686\ (1.3/12) = 941$ CF
$V_{10} = 0.65 \times 941 = 612$ CF

BENCH MARK:

ALL ELEVATIONS SHOWN ON THIS PLAN ARE RELATIVE TO CITY OF ALBUQUERQUE BENCH MARK STATION 1983-K-19, LOCATED AT THE INTERSECTION OF WYOMING BLVD. NE AND CENTRAL AVENUE. ELEVATION = 5,215.306 FEET.

TEMPORARY BENCH MARK IS THE NORTH RIM OF THE MANHOLE AT THE INTERSECTION OF THE ALLEY AND GEORGIA STREET. ELEVATION = 5306.29 FEET.

LEGAL DESCRIPTION:

LOT 17, BLOCK 66, FAIRGROUNDS ADDITION.

Richard D. Schaefer 6/29/87

GRADING AND DRAINAGE PLAN
PET REST CREMATORIUM & MORTUARY
310 GEORGIA STREET, S.E.
ALBUQUERQUE, NEW MEXICO

THIS PLAN SHOT TWICE
ONCE ON LIGHT AND
ONCE ON DARK.

CITY OF ALBUQUERQUE
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