COMPOSITE

THE SITE IS LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF MENAUL AND GEORGENE N.E., ALBUQUERQUE, NEW MEXICO CONTAINING APPROXIMATELY 0.3535 ACRES. THE SITE IS PRESENTLY PARTIALLY DEVELOPED AND SLOPES FROM EAST TO WEST WITH AN AVERAGE SLOPE OF 7.0 PERCENT. PROPOSED DEVELOPMENT OF THE SITE INCLUDES AN OFFICE BUILDING WITH ASSOCIATED PARKING AND LANDSCAPING.

EXISTING CONDITION:

NO OFF-SITE RUNOFF ENTERS THE SITE DUE TO EXISTING ELEVATIONS. EXISTING RUNOFF FROM THE SITE ENTERS MENAUL BOULEVARD AND GEORGENE DRIVE.

PROPOSED CONDITION:

PROPOSED (DEVELOPED) RUNOFF FROM THE SITE WILL BE ROUTED THROUGH PONDS NORTH OF THE PROPOSED BUILDING. ALL RUNOFF FROM A 100-YEAR 6-HOUR STORM, DUE TO THE DEVELOPMENT, WILL BE PONDED.

CALCULATIONS:

Area = 0.3535 acres I = 2.2 in./hr. Plate 22.2 D-2 6-hour, 100-year rainfall = 2.5 in. Plate 22.2 D-1

V(100) = (0.87)(0.3535)(43560)/12 = 1116.39 cu. ft.

V(10) = (0.657)(1116.39) = 733.5 cu. ft.

EXISTING	ON-SITE	CONDITIONS:	

i = (2.2)(2.5) = 5.5 in./hr.

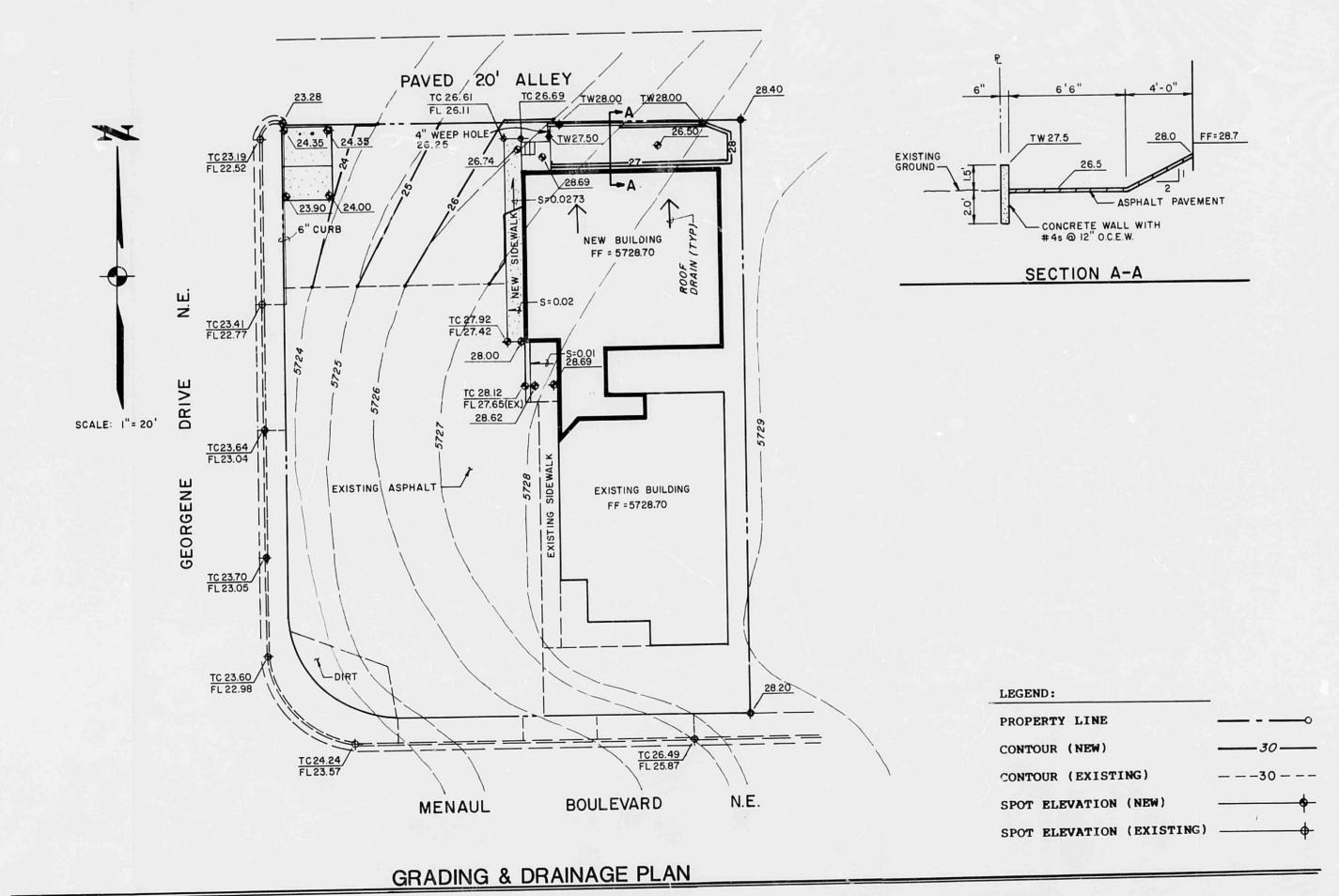
SURFACE TYPE	"C" VALUE	A (ACRES)	"C"X A	"C"=CXA
Streets, Drives, Walks	0.95	0.1610	0.1529	
	0.90	0.0551	0.0496	
Roofs Lawns & Landscaping	0.25	0.0295	0.0074	
	0.40	0.1079	0.0432	
Undeveloped TOTAL	12. 2.10.10	0.3535	0.2531	0.716
Q(100) = (0.7161)(5.5)(0				
Q(10) = (0.657)(1.3921)	= 0.9146 cfs			
CN = 75 Plate 22.2 C-	2			
Direct Runoff = 0.87 in.		.2 C-4		
	* 25 CAL /12 -	1116 20 00	f+	

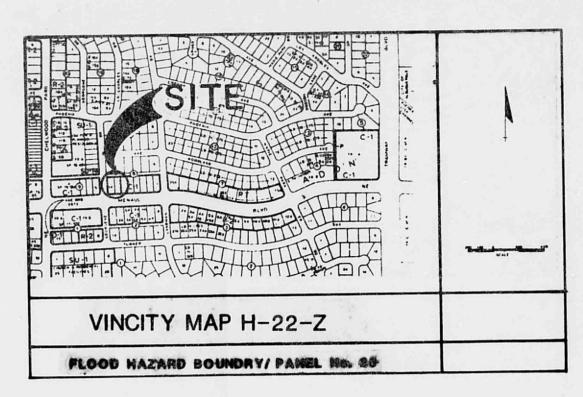
PROPOSED ON-SITE CONDITIONS: COMPOSITE "C"X A "C"=CXA/A "C" VALUE A (ACRES) SURFACE TYPE 0.1928 0.95 0.2029 Streets, Drives, Walks 0.0944 0.1049 0.90 Roofs 0.0457 0.0114 0.25 Lawns & Landscaping 0.40 Undeveloped 0.3535 0.2986 0.8447 Q(100) = (0.84)(5.5)(0.3535) = 1.6423 cfsQ(10) = (0.657)(1.6423) = 1.079 cfsCN = 85 Plate 22.2 C-3 Direct Runoff = 1.2 in. Plate 22.2 C-4, V(100) = (1.2)(0.3535)(43560)/12 = 1539.8 cu. ft. V(10) = (0.657)(1539.8) = 11011.7 cu. ft. Required Volume to Pond = (14-7.4)(60)(1.64-1.39) = 99 cu.ft.

Q(100) From Proposed Roof = (0.9)(0.0498)(5.5) = 0.2465 CN = 98

Direct Runoff = 2.4" V(100) = 2.4 (0.0498)(43560/12) = 433.9 cf

Volume of Pond = (1.5)(6.5) + 4 (1.5)(0.5) 43 = 9.75 + 3 = 12.75 = 548.25 cu.ft.





LEGAL DESCRIPTION:

LOTS 13 & 14, BRENTWOOD HILLS SUBDIVISION, ALBUQUERQUE, NEW MEXICO.

BENCH MARK DATA:

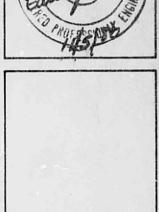
THE STATION IS A STANDARD ACS BRASS TABLET STAMPED "6-H22A" SET IN THE EAST MEDIAN ON MENAUL BOULEVARD N.E. AT THE INTERSECTION OF MENAUL BOULEVARD N.E. AND CHELWOOD PARK BOULEVARD N.E.

SURVEY DATA:

SURVEY DATA PROVIDED BY D.H. SMITH, LAND SURVEYING, ALBUQUERQUE, NEW MEXICO, SEPTEMBER, 1986.

NOTICE TO CONTRACTOR

- 1. ALL WORK DETAILED ON THESE PLANS
 TO BE PERFORMED UNDER CONTRACT
 SHALL, EXCEPT AS OTHERWISE STATED
 TO PROVIDED HEREON, BE CONSTRUCTED
 IN ACCORDANCE WITH THE CITY OF
 ALBUQUERQUE INTERIM STANDARD
 SPECIFICATIONS PUBLIC WORKS
 CONSTRUCTION, 1985.
- 2. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
- 3. 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.
- 4. 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.
- 5. CONTRACTOR SHALL ASSIST THE ENGINEER/INSPECTOR IN THE RE-CORDING OF DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF "AS CONSTRUCT-ED" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
- REFERENCE MADE TO STANDARD DRAW-INGS REFER TO ALBUQUERQUE STANDARD DRAWINGS.
- 7. CURB AND GUTTER SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THE CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
- 8. WHEN CONSTRUCTION UNDER THIS PROJECT CONNECTS TO EXISTING IMPROVEMENTS, THE CONTRACTOR SHALL PROVIDE AN EASY RIDING CONNECTION.



HOMAS HANEY

SEPT 86 LH D: VJC

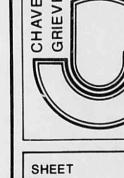
DING AND DRAINAGE

S / CONSULTING ENGINEERS,INC.

4600 MONTGOMERY N.E.,

BUILDING C, #101

ALBUQUERQUE, NEW MEXICO 87109



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