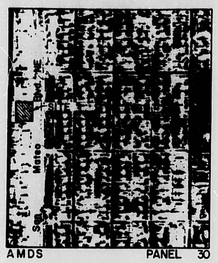
VICINITY MAP J-17

BERNALILLO CO. SOILS MAP 31



AMDS PANEL 30

LEGEND

TC 5221.10	TOP OF CURB OR CONCRETE
FL 5220.40	FLOWLINE
⊕	EXISTING SPOT ELEVATION
⊕	PROPOSED SPOT ELEVATION
(E)	EXISTING ELEVATION
⊕	HIGH POINT

LEGAL DESCRIPTION

Lot 12-A, Block 10 - Ridge Park Addition.

BENCHMARK

A.C.S. MON. "1-H17" ELEVATION: 5219.342
A square ( ) chiseled on the top of curb on the north side of Indian School Road N. E., 0.25 miles west of the intersection of San Mateo Boulevard N.E. opposite house No. 4722 Indian School Road N. E.

TEMPORARY BENCHMARK

South head bolt on the top flange of fire hydrant located approximately 40 feet north of the northeast property corner of the site on the east side of San Mateo Boulevard N.E. ELEVATION: 5223.21

Existing topography from TOPOGRAPHICAL SURVEY by Carl Harrington, Inc. L.S. No. 7909, not dated.

CONSTRUCTION NOTES:

1. Two (2) working days prior to any excavation, Contractor shall contact line locating service, 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 obstructions. 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 public right-of-way shall be performed in accordance with applicable City of Albuquerque standards and procedures.

EROSION CONTROL MEASURES

1. The Contractor shall ensure that no soil erodes from the site onto private property or City ROW. This can be achieved by constructing temporary berms at the property lines and wetting the soil to keep it from blowing.
2. The Contractor shall promptly clean up any material excavated within the public right-of-way so that the excavated material is not susceptible to being washed down the street.
3. The Contractor shall secure "Topsoil Disturbance Permit" prior to beginning construction.

DRAINAGE PLAN

The site, as shown on Vicinity Map J-17, is located on the west side of San Mateo Boulevard N.E. between Hannett and Haines Avenues N.E. The area of the site is 0.3985 Acres. Two buildings currently exist on the site with the remainder of the area being paved with asphalt and concrete. Development exists to the south (Lot 14), the north (Lot 11) and west. The southern portion of the site drains to the lot common with Lot 14 then to the east to discharge on San Mateo. The northern portion of the site drains to the north with some discharge onto Lot 11 and the remainder discharging along the lot line to San Mateo.

Proposed construction consists of a building addition connecting the two existing buildings, landscaping improvements and a 1"inch asphalt overlay of the parking lot. As discussed with Mr. Roger Green of the City Hydrology Section in the predesign conference, free discharge to San Mateo Boulevard is approved and cross lot drainage will require private drainage easement agreements. Copies of Access Easements, which include drainage, between lot owners have been submitted with this Drainage Plan.

With new construction, drainage of the south portion of the site will remain as is, east on the lot line common with Lot 14 to San Mateo. An asphalt swale is to be constructed along the lot line common with Lot 11 to divert all runoff east to San Mateo and eliminate runoff onto Lot 11. All drainage will be through the aforementioned Private Access and Drainage Easements.

The computations shown hereon analyze both the existing and proposed conditions for the 100-year and 10-year rainfall events. The rational method has been used for this analysis in accordance with the City of Albuquerque Zemalgement Process Manual, Volume II. As shown in the calculations, the change in peak flow from existing to proposed conditions in the 100-year and 10-year events results in a decrease of 0.10 cfs and 0.07 cfs respectively.

The AMDS indicates that existing streets and storm drainage facilities are adequate to carry flows in a 100-year event.

EXISTING CONDITIONS

AREA = 17,360 SQ.FT. = 0.3985 ACRES

CALCULATE COMPOSITE 'C'

	AREA (SQ.FT.)	'C'	CA
ROOF	3,315	0.90	2,984
PAVEMENT	14,045	0.95	13,343
	17,360		16,327

COMPOSITE 'C' = 16,327/17,360 = 0.94

Q(100) = CIA
C = 0.94
i = r(6.84)(tc)
r = 2.3 inches PLATE 22.2 D-1
tc = 10 min.
i = 2.3(6.84)(10) = 4.86
A = 0.3985 Acres
Q(100) = 0.94(4.86)(0.3985) = 1.82 cfs
Q(10) = Q(100) x 0.657 = 1.82(0.657) = 1.20 cfs

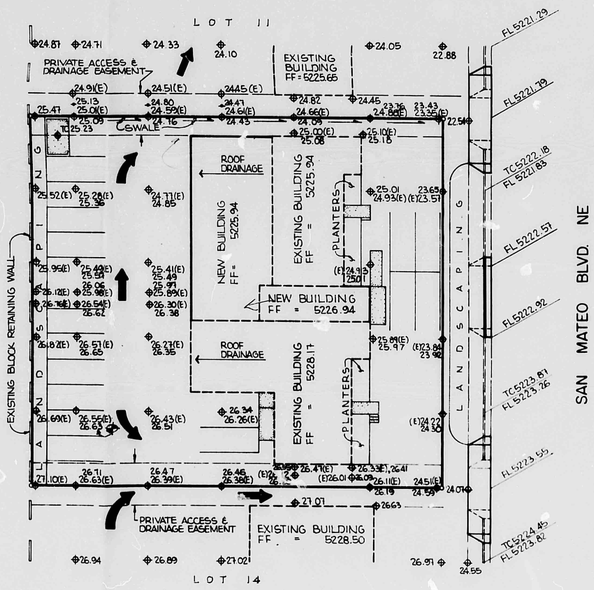
PROPOSED CONDITIONS

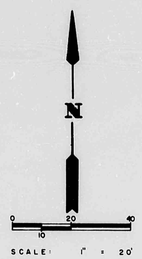
CALCULATE COMPOSITE 'C'

	AREA (SQ.FT.)	'C'	CA
ROOF	5,447	0.99	4,902
PAVEMENT	10,793	0.95	10,253
LANDSCAPING	1,120	0.25	280
	17,360		15,435

COMPOSITE 'C' = 15,435/17,360 = 0.89

Q(100) = 0.89(4.86)(0.3985) = 1.72 cfs < 1.82 OK
Q(10) = 1.72(0.657) = 1.13 cfs < 1.20 OK





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HYDROLOGY SECTION

CLIENT: SOUTHWEST REMODELING SERVICES

DESIGNED S.F.F. 06/87
DRAWN J.T. 06/87
REVIEWED S.F.F. 06/87

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NO.	DATE	REVISIONS	BY

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GRADING & DRAINAGE PLAN
OFFICE ADDITION FOR LOVATO / LOVATO & ASSOCIATES
2021 & 2025 SAN MATEO BLVD. NE
ALBUQUERQUE, NEW MEXICO

SHEET 1 OF 1