HYDROLOGY

G21/D20
1 PLAN

G21/D20

1 PLAN

SCALE: 1"= 30'

LEGEND

- EXIST. CONTOUR
- PROPOSED CONTOUR
- EXIST. SPOT ELEV.
- PROPOSED SPOT ELEV.

SOILS

EmB EMBUDO AND
EtC EMBUDO TIJERAS

LEGAL

PUBLIC PARK LOCATED IN THE LA RIENA DE LOS ALTOS SUBDIVISION.

BENCHMARK

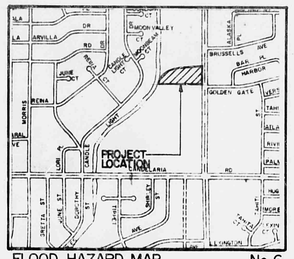
CITY OF ALBUQUERQUE BRASS CAP JT-2A LOCATED AT CANDELARIA & JUAN TABO N.E.
ELEV.= 5618.04

SEEDING SPECIFICATIONS

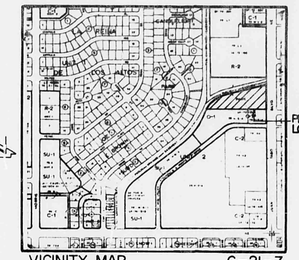
Species	Variety or Origin	Pure Live Seed Lbs/Acre
Annual Rye Grass	New Mexico, Coloradp, Arizona	8.0
Giant dropseed	New Mexico	2.0
Sand dropseed	New Mexico	1.0
Indian ricegrass	Paloma	4.0
Sideoats grama	Vaughn	6.0
	Total	21.0

The seeded area shall be fertilized and irrigated as necessary to insure the grasses become established. This work shall be performed within 15 days after completion of the site grading.

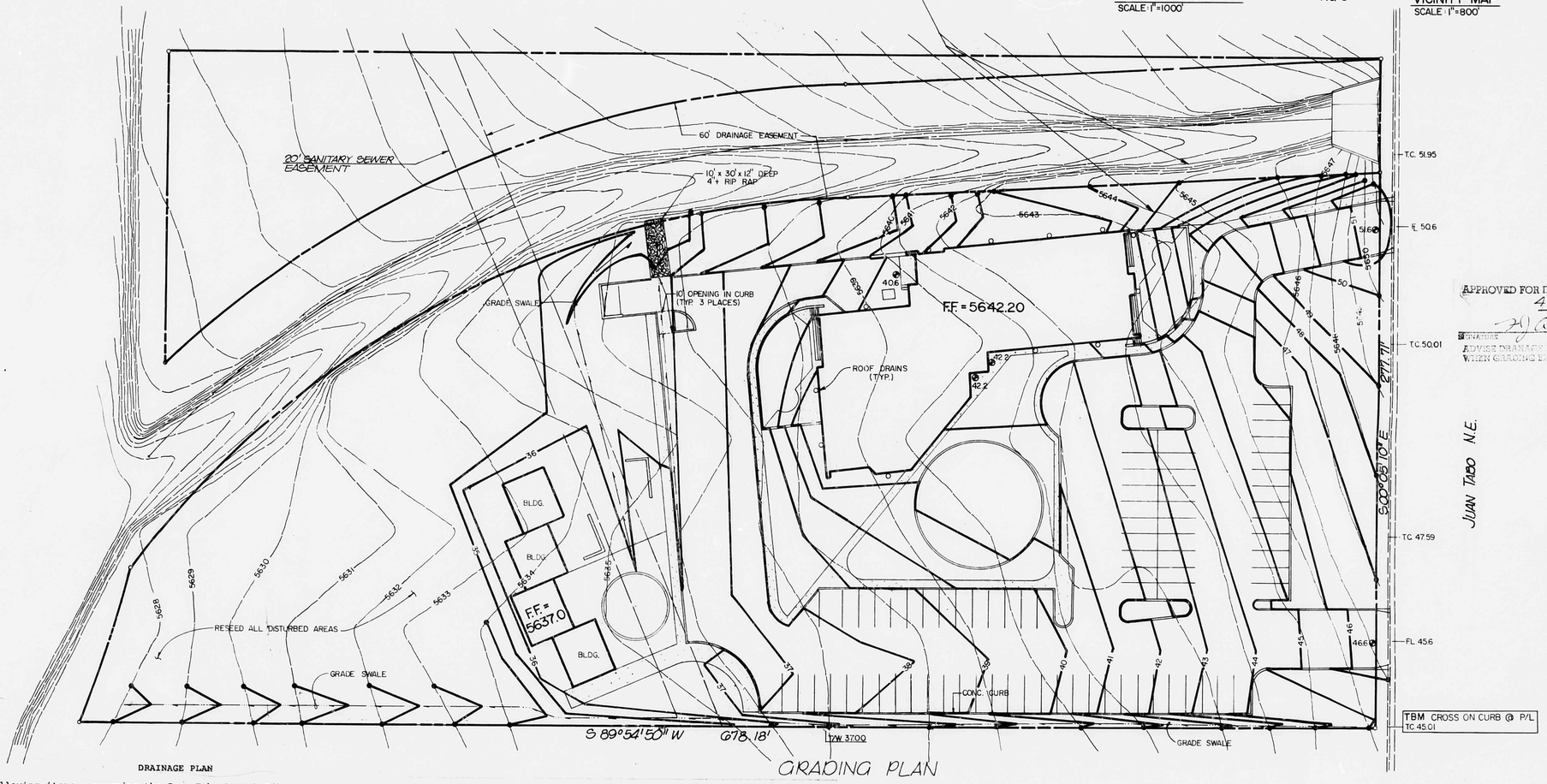
RESEED ALL DISTURBED AREAS.



FLOOD HAZARD MAP No. 6
SCALE: 1"=1000'



VICINITY MAP G-21-Z
SCALE: 1"=800'



GRADING PLAN

APPROVED FOR DRAINAGE
4-13-82
DATE
SIGNATURE
(ADVISE DRAINAGE INSPECTOR WHEN GRADING BEGINS)

DRAINAGE PLAN

The following items concerning the Juan Tabo Branch Library are contained hereon:

1. Vicinity Map
2. Flood Hazard Map
3. Grading Plan
4. Calculations

The proposed building is located on the west side of Juan Tabo approximately half way between Candelaria and Comanche N.E. The building will be used as a library by the City of Albuquerque with associated parking for employees and customers.

The site is bordered on the east by Juan Tabo Boulevard. The street is higher than the project site. On the south is a shopping center that is approximately equal to or lower than the project site. Along the north and west boundaries of the project site is an easement for a proposed drainage channel. The natural drainage channel lies north of the easement at the present time. Offsite flows could not enter the site from the south or the north. Flows in Juan Tabo go to a run-down just north of the project site, which introduces the flows into the existing drainage channel. The only flows that could enter the project site would be from Juan Tabo, and they would be minimal since the street is relieved by the run-down adjacent to the property. The project site (1) does not lie in a flood plain, (2) has no drainage easements on the property and (3) does lie adjacent to a natural water course.

The project site was graded to allow a free discharge to the existing channel. The discharge was designed so that it could be incorporated into a new channel design that is currently in progress. The land to the west of the parking area will be undisturbed, so it has not been included in this drainage report. If the soil is disturbed in that area, it will be re-seeded in accordance with the erosion control plan. The Grading Plan shows (1) existing contours at 1'-0" intervals, (2) proposed grades indicated by spot elevations and contours, (3) swales, (4) continuity between proposed and existing elevations, (5) that all runoff will be conveyed into the drainage channel adjacent to the property.

CALCULATIONS

Area of Parcel = 2.75 ac
Area of Development = 1.95 ac
Impervious Area = 1.55 ac
Pervious Area = 1.20 ac

Composite 'C' = $(\frac{1.55}{1.95}).95 + (\frac{.40}{1.95}).40 = 0.84$

Undeveloped runoff = 0.40(5.4)1.95 = 4.2 cfs
Developed runoff = 0.84(5.4)1.95 = 8.8 cfs

Job No. 1-087

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO THOMAS K. HART 7844 NEW MEXICO LAND SURVEYOR 3/26/82

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date: 2.0.82

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STATE OF NEW MEXICO EUGENE L. HUNT No. 4300 ALBUQUERQUE N.M. REGISTERED

GRADING & DRAINAGE

JUAN TABO BRANCH LIBRARY

CITY OF ALBUQUERQUE

sheet no: C-2

BY DALLAS N.E. · ALBUQUERQUE, NEW MEXICO · 87110
ENGINEERS