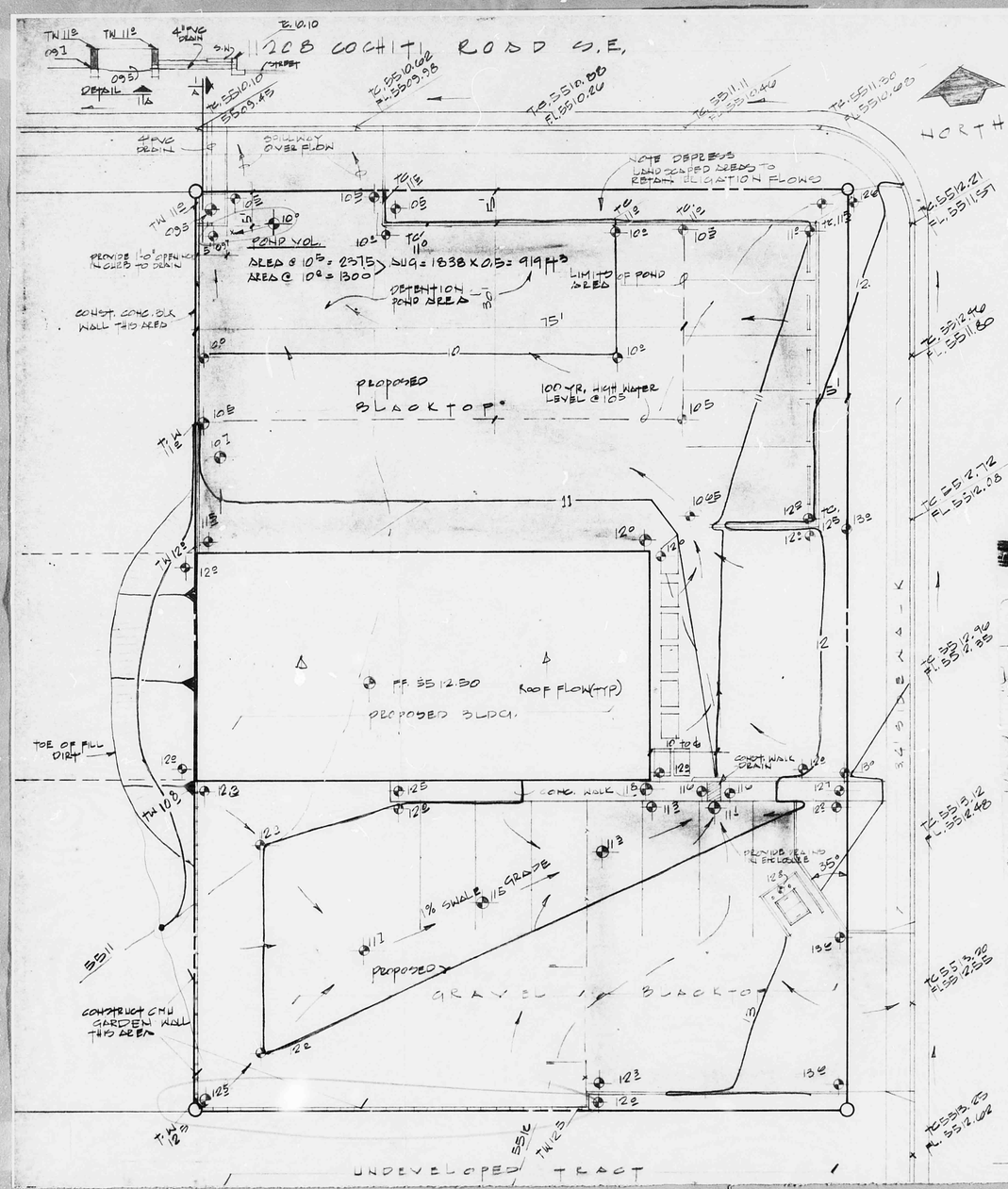
HYDROLOGY

L21/D9
ONE PLAN

L21/D9

1 PLAN



NOTES:

1. Legal: Lots 15 & 16, Blk. 10, East Central Business Addition
2. Surveyor: Albuquerque Surveying Company
3. Area of Site - 0.32 AC
4. Flood Hazard Boundry Map, page site not located in flood hazard area.
5. SCS Soils Map no. 32, soil type TgB, Class "B".
6. Permanent BM. Monument Sta. Ber. 3 a city of Albuquerque. Brass cap located at the southeast corner of Central Ave. and Britt Road S.E. Elevation 5486.945.
7. T.B.M. - T.C. northwest corner of lot line projection - Elevation-5510.10.
8. S.O. #19 documents submitted to city design. / BOB KIELICK

DRAINAGE CRITERIA:

Per pre-design meeting w/city hydrology 12/1/82, site to restrict discharge to Q 100 undeveloped flow. Rate, or peak rate obtainable through a 4" drain, whichever is greater, due to downstream flooding and lack of direct entry into a storm sewer.

Q 100 Undeveloped Rate = (0.32 AC)(2.15)(2.45)(0.34) = 0.6 CFS

Q 100 Developed Rate = (0.32)(5.27)(0.82) = 1.4 CFS
for 87% imprevious

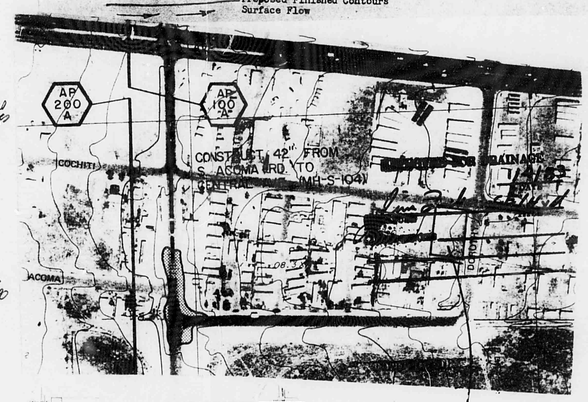
Peak volume stored in detention pond while outflowing 0.6 CFS undeveloped flowrate = 903 ft.³ at a peak volume storage time of 31 minutes.

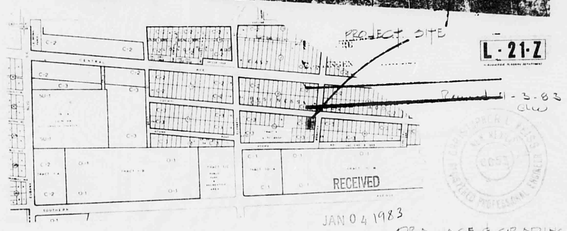
Detention pond capacity at a depth of 0.5' = 912 ft.³ ≅ 903 ft.³ req.
Pond to be completely drained by 4" PVC outlet located in northwest corner of site.
Flow rate through pipe under a 1'.0" Head = 0.6 CFS = undeveloped flow rate.
Offsite flows are intercepted on the east by an existing street.

Flows from the south are from an undeveloped lot and are minimal which will pass through this site's drainage system for discharge onto Cochiti.

LEGEND:

x 14.7	Existing Spot Elevation
11.7	Proposed Finished Spot Elevation
5511	Existing Contours
	Preposed Finished Contours
	Surface Flow





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JAN 04 1983
ENGINEERING

DRAINAGE & GRADING DESIGNED BY CTS, INC.
GRAPHICS BY FEDO ARAGON

DRAINAGE PLAN 1"=10'

3 of 3

L21/09