HYDROLOGY

F17/D11A

ONE PLAN

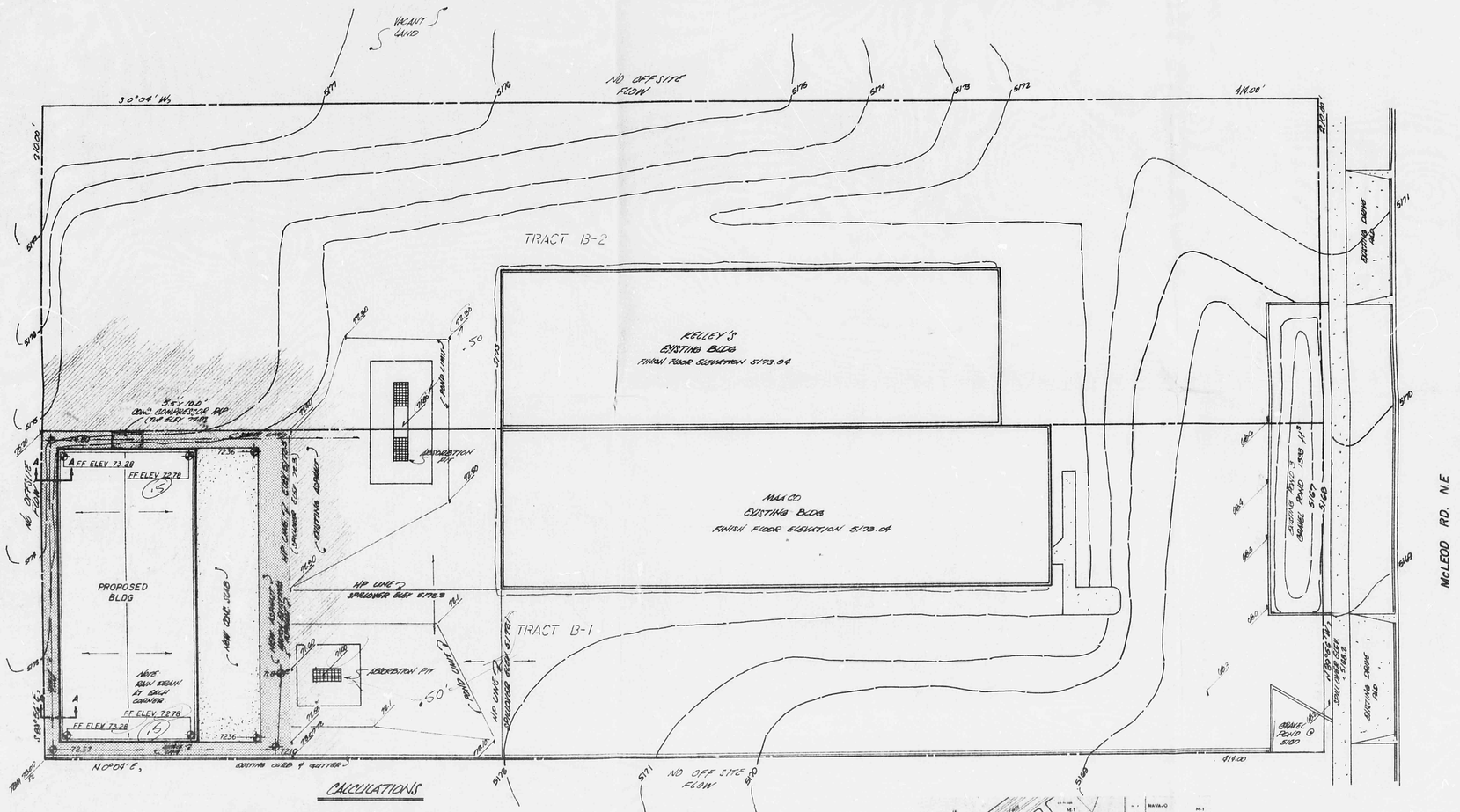
1 PLAN FOR

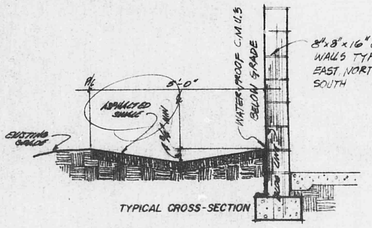
MAACO ADDITION

F17-D11A

MAACO BODY SHOP
4701 McLEOD NE

GRADING & DRAINAGE PLAN





SECTION A-A

RETAINING WALL ON NORTH & EAST SIDES ONLY

CALCULATIONS

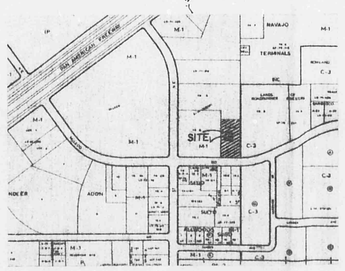
ENTIRE SITE PAVED OR IMPROVED "C" FACTOR = 1.0
EXISTING CONDITION 43,670 sq ft (GRAVEL TRACT)
Q = 1.0 x 5.4 x 0.9979 cfs = 5.4 cfs
Volume 2.2/ft x 1 (GRAVEL ONLY) 7920 ft³
1 ac-ft 15,939 GRAVEL CUTS
NO RELEASE OTHER THAN SPILLOVER

POND 1 $\frac{0.9 \times 30 \times 0.5}{3}$ = 315 + ABSORBTION PIT (20 x 20 x 2)
= 315 ft³ + 800 ft³ = 1115 ft³ — SPILLOVER ELEVATION TO POND 3 5172.1

POND 2 $\frac{55 \times 50 \times 0.5}{3}$ = 458 ft³ + 1,200 ft³ = 2058 ft³ — SPILLOVER ELEVATION TO POND 3 5172.3

POND 3 $\frac{100 \times 100 \times 2}{3}$ = 1333 ft³ GRAVEL POND — SPILLOVER ELEVATION TO McLEOD RD 5168.2

TOTAL PONDING 8,506 ft³
REQUIRED 15,939 ft³
SPILLOVER TO McLEOD 11,433 ft³



VICINITY MAP

F-11 F-17

LEGEND
EXISTING CONTOUR — 5174
EXISTING SPOT ELEV 7250
DESIGNED SPOT ELEV 7295
SWALE LINE FLOW

NOTES
1) BENCH MARKS
ALL ELEVATION MARKER EXISTING
APPROVED AS BENCH (ON TOP OF CURB)
ELEVATIONS.
2) NO ATTEMPT TO VERIFY ADEQUACY OF
DOWN STREAM CONDITION HAS BEEN
MADE.

APPROVED FOR DRAINAGE
10/13/83
DATE

SIGNATURE TITLE
ADVISE DRANAGE INSPECTOR
WHEN GRADING EXECUTED

F17/D11A

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RICHARD V. HALL NEW MEXICO NO. 7918 REGISTERED PROFESSIONAL ENGINEER

Revised
Oct 6th 1983
Oct 12th, 1983