

CALCULATIONS

EXISTING CONDITIONS

NO FLOOD ENTERS SITE FROM ADJACENT AREAS
TOTAL AREA OF SITE: 15501 SF
SOIL TYPE: B-1C HYDROLOGIC SOIL GROUP B
NO IMPROVEMENTS ON SITE - 0% IMPERVIOUS - C = .34
TIME OF CONCENTRATION: 10 min.
 $Q_{10} = 3.55 \times 1000 \times 10^{.34} = 5.39 \text{ cfs}$
 $Q_{20} = 5.39 \times 1.257 = 6.77 \text{ cfs}$
 $Q_{50} = 5.902/45000 \times .34 \times 5.39 = 0.31 \text{ cfs}$
 $Q_{100} = 5.902/45000 \times .34 \times 5.39 = 0.17 \text{ cfs}$

DEVELOPED

2 INCHES FROM LOTS 1A, 1B, 1C TO EXIT SITE OVER CURB CUT AT LOT 10 ONTO VALE PACE DRIVE
2 INCHES FROM LOTS 2A, 2B, 2C TO EXIT SITE OVER CURB CUT AT LOT 20 ONTO VALE PACE DRIVE

LOTS 1A, 1B, 1C

AREA: 3424 SF
IMPERVIOUS: 4970 SF
55% IMPERVIOUS - C = .38
 $Q_{10} = 3.55/45000 \times 50 \times 3.74 = 0.45 \text{ cfs}$
 $Q_{20} = 3.55/45000 \times 50 \times 5.39 = 0.60 \text{ cfs}$

TOTAL DEVELOPED RUNOFF

$Q_{10} = 0.45 + 0.67 = 1.12 \text{ cfs}$

LOTS 2A, 2B, 2C

AREA: 8065 SF
IMPERVIOUS: 4970 SF
55% IMPERVIOUS - C = .38
 $Q_{10} = 3.55/45000 \times 80 \times 3.74 = 0.44 \text{ cfs}$
 $Q_{20} = 3.55/45000 \times 80 \times 5.39 = 0.67 \text{ cfs}$

TEAM

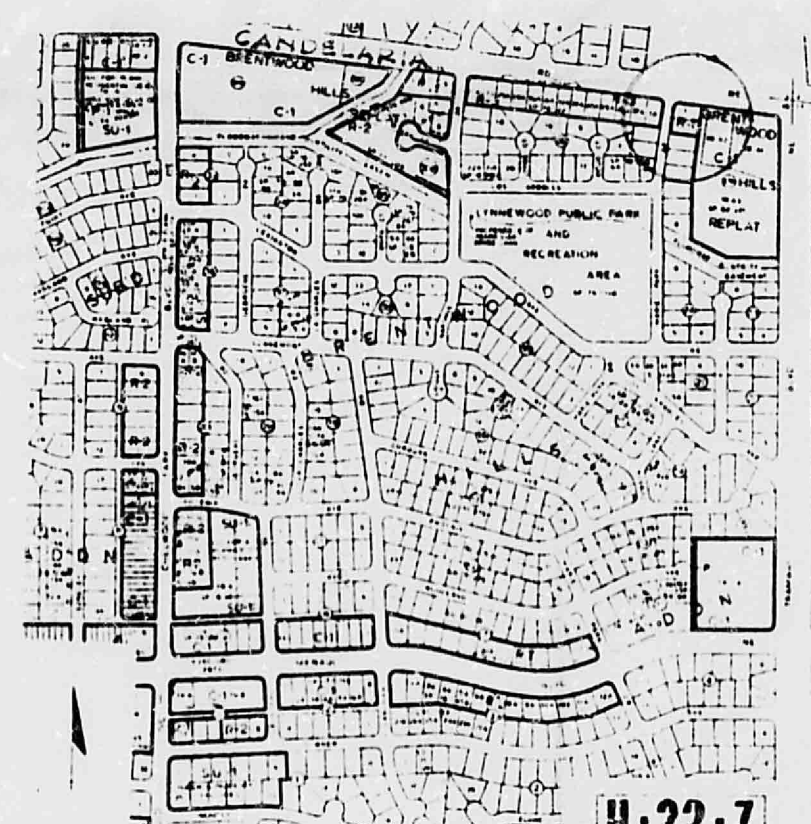
2 INCHES OF SANITARY MAN HOLE 30 IN SOUTH OF
CANDLERIA ROAD 2 INCHES SOUTH OF WAY ON
VALE PACE DRIVE N.E.
E.L. 5776.01

BENCH MARK

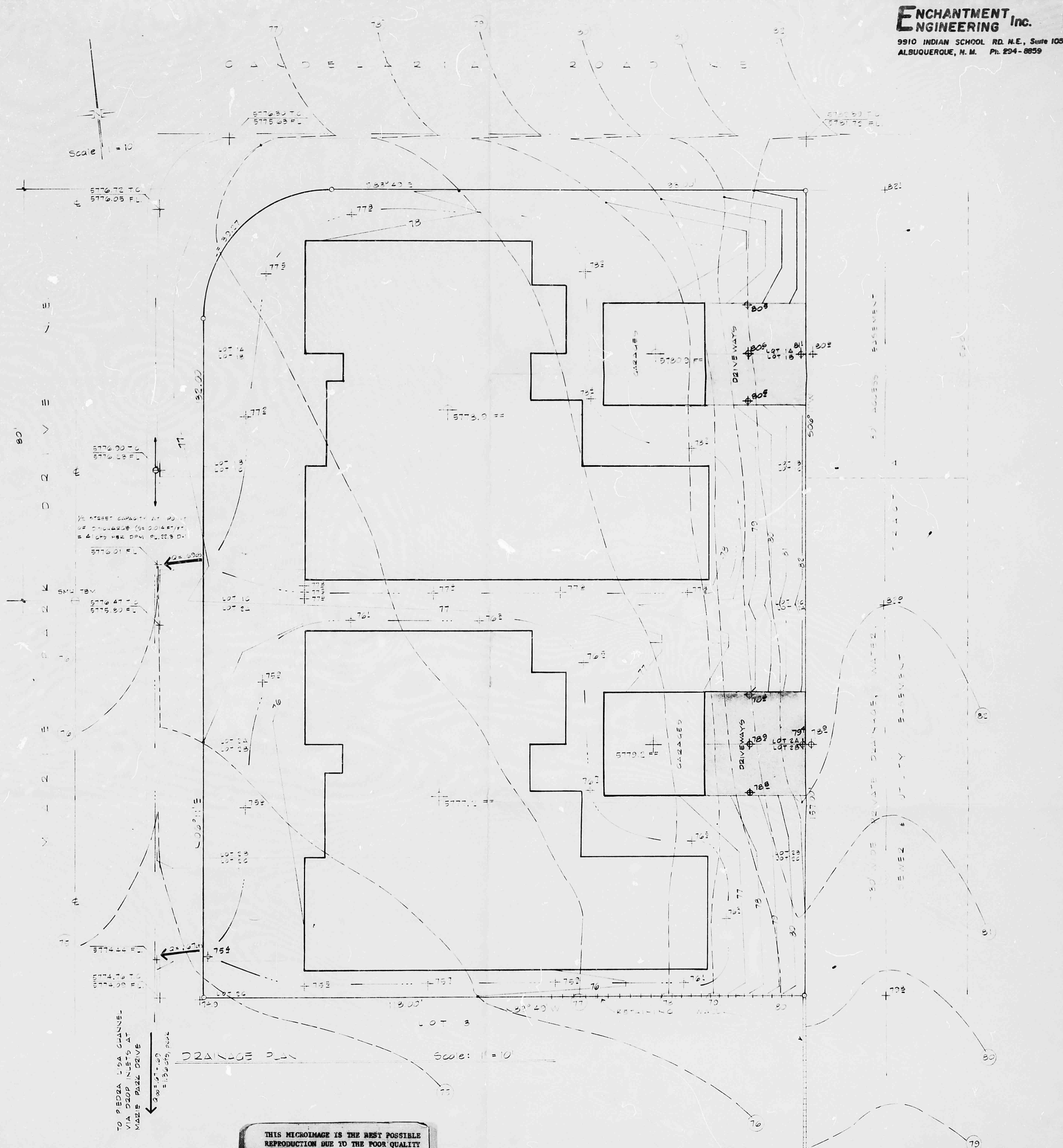
ST. 4-22 E.L. 5776.50
A STANDARD AGS BENCH MARK SET
IN A CONCRETE POST REQUESTED ON
LOCATED ON TEAMWAY RD. APPROXIMATELY
38 MILES SOUTH OF CANDLERIA ROAD

LEGEND

CONTINUOUS LINES: 1 INCH
+ EXISTING SPOT ELEVATIONS
+ PROPOSED SPOT ELEVATIONS
- EXISTING CONTOURS
- PROPOSED CONTOURS
PROPOSED CONTOURS & SPOT ELEVATIONS
INDICATE FINISH SURFACES.
FIELD NOTES TAKEN DEC 13, 1983
PAVED AREAS



VICINITY MAP



THIS MICROIMAGE IS THE BEST POSSIBLE
REPRODUCTION DUE TO THE POOR QUALITY
OF THE ORIGINAL DOCUMENT

Don Butts
Revised 4/17/84
2015

APPROVED
MAY 23 1984
HYDROLOGY SECTION