

PROJECT BROADWAY COMMERCIAL

LOCATION (See Vicinity Map & Legal Description)

ANALYSIS POINT # UNDEVELOPED AREA

(DR. AREA) A = 0.72 ACRES

T_c 10 MIN

POINT RAINFALL 2.3 IN. FROM PLATE 22.2 D-1

CN = 55 FROM PLATES 22.2 C-2, 22.2 C-3

RUNOFF VOLUME R = 0.2 IN. FROM PLATE 22.2 C-4

COMPUTED T_p = 10 MIN. $T_p = T_c$
(Rounded to even minute)

$q_p = \frac{45.4A}{T_p} = \frac{33}{10} = 3.3$ CFS./INCH OF RUNOFF

$(R \times q_p) = Q_{peak} = 0.66$ CFS

$t(COLUMN) = (t/T_p) \quad t = T_p(t/T_p)$

$y = \frac{Q}{Q_{peak}} \quad Q = y(Q_{peak})$

Volume = 0.2 in. (0.72 ac.) (1 ft./12 in.) (43,560 sq. ft./ac.)
= 523 cu. ft.

PROJECT BROADWAY COMMERCIAL

LOCATION (See Vicinity Map & Legal Description)

ANALYSIS POINT # DEVELOPED AREA

(DR. AREA) A = 0.72 ACRES

T_c 10 MIN

POINT RAINFALL 2.3 IN. FROM PLATE 22.2 D-1

*CN = 57 FROM PLATES 22.2 C-2, 22.2 C-3

RUNOFF VOLUME R = 0.3 IN. FROM PLATE 22.2 C-4

COMPUTED T_p = 10 MIN. $T_p = T_c$
(Rounded to even minute)

$q_p = \frac{45.4A}{T_p} = \frac{33}{10} = 3.3$ CFS./INCH OF RUNOFF

$(R \times q_p) = Q_{peak} = 1$ CFS

$t(COLUMN) = (t/T_p) \quad t = T_p(t/T_p)$

$y = \frac{Q}{Q_{peak}} \quad Q = y(Q_{peak})$

* 86% of site is undeveloped (Pervious CN = 50)
Volume = 0.3 in. (0.72 ac.) (1 ft./12 in.) (43,560 sq. ft./ac.)
= 784 cu. ft.

LEGEND

ASPHALT SURFACE

CONCRETE SURFACE

EXISTING SPOT ELEVATION
(Top of Curb or Top of Wall & Flow Line)

PROPOSED SPOT ELEVATION
(Top of Curb & Flow Line)

EXISTING CONTOUR

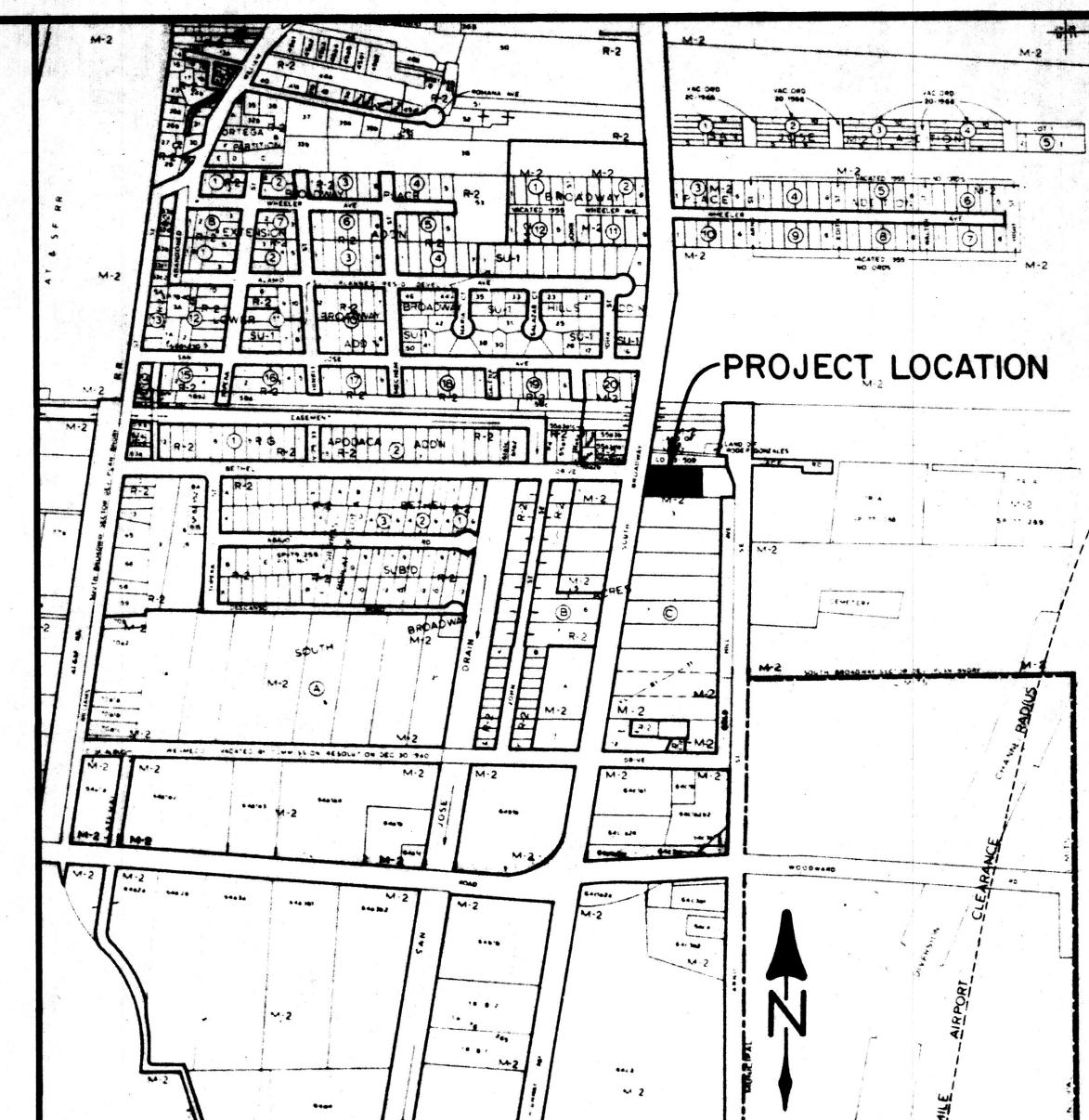
PROPOSED CONTOUR

FLOW ARROW

ROOF LEADER

EXISTING POWER POLE

GRAVEL SURFACE



VICINITY MAP
SCALE: NONE
ZONE ATLAS M-14

T.B.M.

TEMPORARY BENCHMARK: NAIL IN POWER POLE NEAR THE NW PROPERTY CORNER (INSIDE BOUNDARY).
ELEVATION = 4447.08' M.S.L.

ACS BENCHMARK

NM361-3: STANDARD NMSHC BRASS TABLET
STAMPED "STA. NM361-3" SET IN TOP OF A CONCRETE
POST FLUSH WITH THE GROUND IN THE CENTER OF THE
MEDIAN ON BROADWAY BLVD. SE (STATE ROAD NO. 361)
1.95 MILES SOUTH OF THE INTERSECTION OF CENTRAL
AVE. AND BROADWAY BLVD.
ELEVATION = 4466.055' (S.L.D. 1929) 1ST ORDER

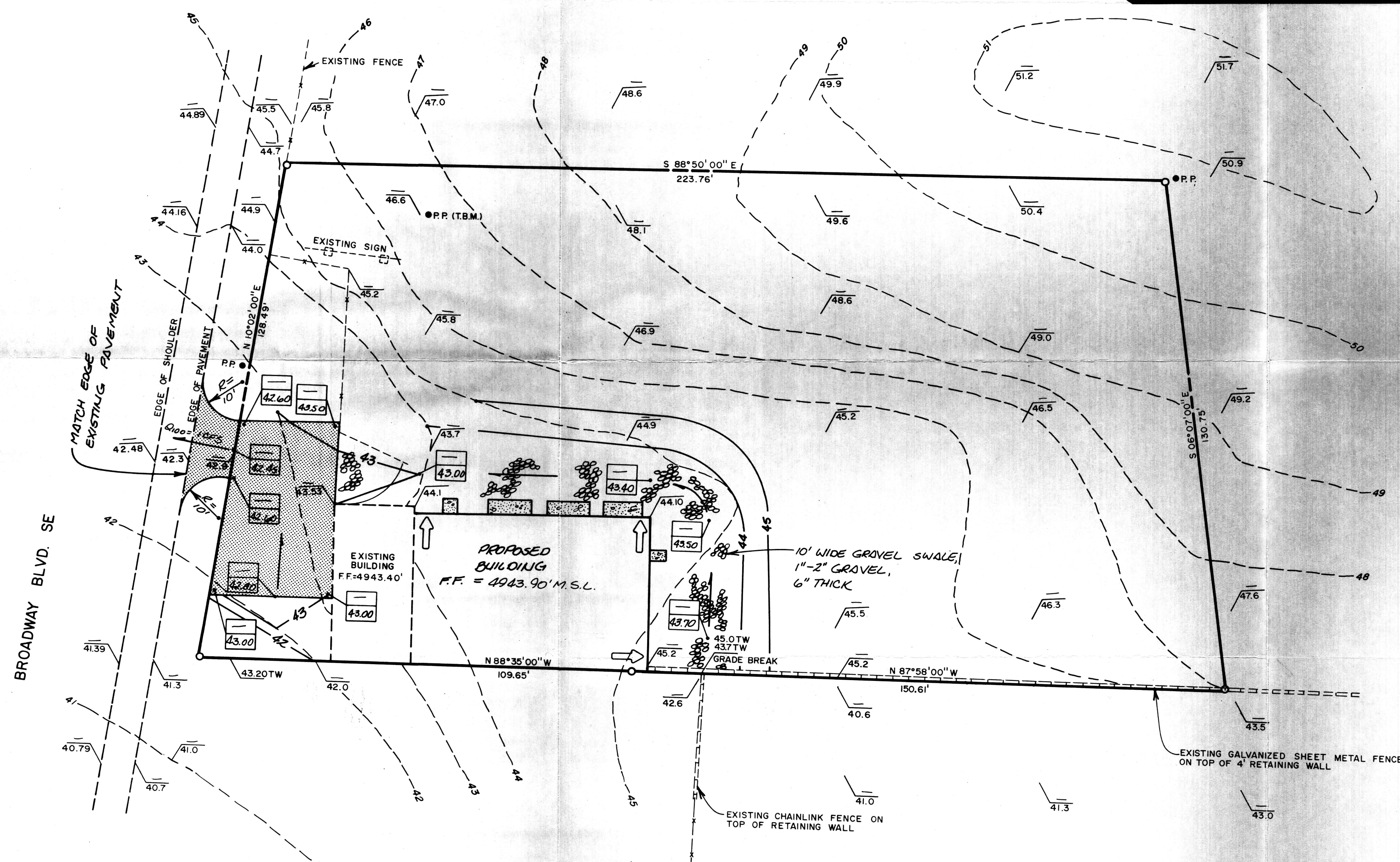
LEGAL DESCRIPTION

LOT 2 OF BLOCK C OF SOUTH BROADWAY
ACRES AND TRACT 56 OF THE M.R.G.C.D. MAP
NO. 44 AND A PORTION OF THE VACATED SAN JOSE
LATERAL.

GENERAL NOTES

1. TOPOGRAPHIC SURVEY WAS PROVIDED BY SOUTHWEST SURVEYING, INC.
2. SITE DOES NOT LIE IN THE 100-YEAR FLOOD PLAIN.
3. ADD 400 TO ALL SPOT AND CONTOUR ELEVATIONS.
4. SEE SITE PLAN FOR TRUE DIMENSIONS.
5. ALL ELEVATIONS ARE M.S.L. (MEAN SEA LEVEL).
6. EXISTING CONTOUR INTERVAL IS ONE FOOT. PROPOSED CONTOUR INTERVAL IS ONE FOOT.
7. CONTRACTOR IS TO NOTIFY OWNER OF ANY DISCREPANCIES IN EXISTING GROUND ELEVATIONS PRIOR TO CONSTRUCTION.
8. 12" COMPACTED SUBGRADE TO A MINIMUM OF 95% PER ASTM D 1557 UNDER ALL AREAS TO BE PAVED.

RECEIVED
NOV 17 1986
HYDROLOGY SECTION



N

SCALE: 1" = 20'



BROADWAY COMMERCIAL

GRADING AND DRAINAGE PLAN

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 21307
ALBUQUERQUE, NEW MEXICO 87154
(505) 294-9961

Designed: MG Drawn: BG Checked: MG
Scale: 1" = 20' Date: OCTOBER 1986 Sheet C2 of 2