

CONSTRUCT 2' HIGH X 4' WIDE
EMBANKMENT TO DEFLECT
OFFSITE FLOW

ROUTED FLOW
AMOLE DEL NORTE
BASINS 37D & 39D
Q₁₀₀ = 102.2 CFS

30' NEW DRAINAGE
EASEMENT

(A) LINED CHANNEL
LENGTH = 1000'

PROVIDE 3-24" DIA.
RCP CULVERTS UNDER
ROADWAY

OFFSITE FLOW FROM
UPLAND #3

Q₁₀₀ = 22.9 CFS
Q₁₀ = 15.1 CFS

CONSTRUCT 2.5' HIGH X
4' WIDE EMBANKMENT
TO DEFLECT OFFSITE
FLOW

Q₁₀₀ = 22.9 CFS

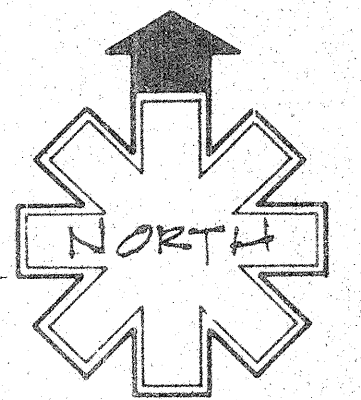
PHASE I X PHASE II

2886.83' ONE EAST

PROPERTY LINE & BLOCK SCREENING WALL (TYPICAL)

4992 INV.
CHANNEL

Thompson & Schenk
STATE OF
NEW MEXICO
No. 6739
LAWYER
WASHINGTON D. SCHENK
(8-5-85 Orig.)
10-29-85 Rev.

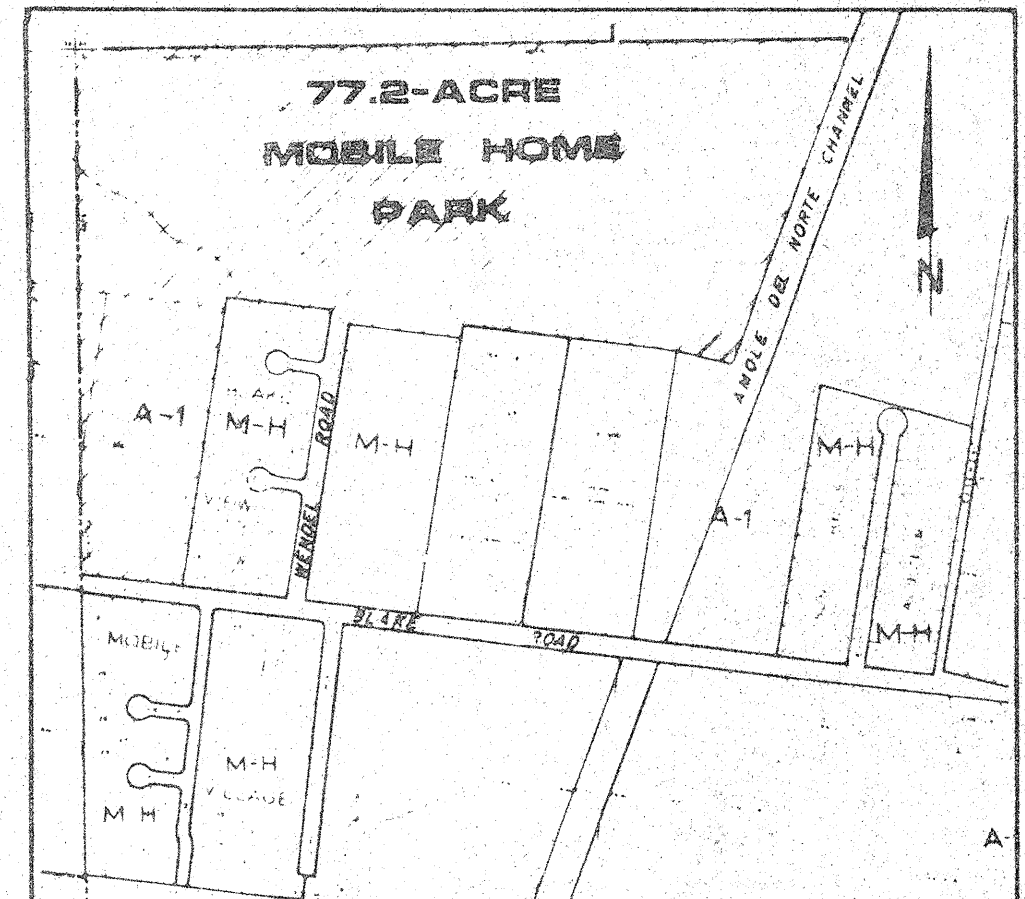


SCALE: 1"=100'-0"

0 50 100 200 300

FUTURE LINED CHANNEL TO BE
CONSTRUCTED AFTER BASIN 7 IS REMOVED.

18" CMP OUTLET
Q=16< Q=22.5 CFS



VICINITY MAP

ZONE ATLAS SHEET NO. 10

MAR 12 1986

HYDROLOGY SECTION

PRINTED

MAR 05 1986

BOYLE ENGINEERING CORPORATION

BASIN	SURFACE AREA (SQ FT)	DEPTH (IN)	VOLUME (AC-FT)
1 (a)	44,300	20	1.59
2 (a)	58,500	20	2.09
			$\frac{3.68}{3.68} > V_{100}=3.65(c)$
3 (b)	172,800	24	7.52
			$\frac{11.20}{11.20} > V_{100}=5.64(c)$
			$> V_{100}=9.95(d)$
(a) TEMPORARY DETENTION BASIN. PLUG OUTLET TO CONVERT TO A RETENTION BASIN DURING CONSTRUCTION OF THE AMOLE DEL NORTE CHANNEL. THIS BASIN SHALL BE VACATED AND REGRADED AFTER DOWNSTREAM CHANNEL CONSTRUCTION HAS BEEN COMPLETED.			
(b) TEMPORARY DETENTION BASIN IN CITY R.O.W. TO BE REMOVED WHEN CHANNEL CONSTRUCTION BEGINS.			
(c) TOTAL DEVELOPED RUNOFF FROM 77.2-ACRE MOBILE HOME PARK			
(d) TOTAL DEVELOPED RUNOFF FROM BASINS 37D, 39D & 40D (217.6 AC.) ENTERING AMOLE DEL NORTE CHANNEL (FEB 1985 DESIGN DEVELOPMENT REPORT)			

CHANNEL	DESIGN (CFS)	SLOPE (FT/FT)	SIDE SLOPES (FT/FT)	BOTTOM WIDTH (FT)	DEPTH OF FLOW (FT)	VELOCITY (FPS)	TOTAL WIDTH (FT)
A	102.2	0.0205	4:1 ⁽¹⁾ 2:1 ⁽²⁾	10 7	1.12 0.97	6.4 11.9	19.7 11.0
B	139.3	0.0173	3:1 ⁽¹⁾ 2:1 ⁽²⁾	10 5	1.43 1.40	6.9 12.8	19.7 10.6
C	27.7	0.0060	3:1 ⁽¹⁾ 2:1 ⁽²⁾	6 3	1.00 0.97	3.1 5.8	13.1 7.0
D	42.5	0.0204	3:1 ⁽¹⁾ 2:1 ⁽²⁾	0 0	1.57 1.43	5.8 10.5	9.8 5.7

(1) ENKAMAT LINING, TYPE 7020 MATTING (n = 0.030)

(2) 4-IN REINFORCED CONCRETE LINING (n = 0.015)

DRAINAGE BASIN	AREA ACRES	Q ₁₀₀ (CFS)
1-D	1.6	3.1
2-D	14.9	27.7
3-D	10.8	21.1
4-D	15.5	28.8
5-D	16.4	27.0
6-D	15.6	24.8
7-D	7.0	13.7

PARCEL A-1-II-B
(0.62 ACRES)

PARCELS A-1-II & A-1-B
(4.64 ACRES)

50' SPILLWAY
EL. = 4999.5

12" CMP
Q=4.5 CFS

NG. 4997

EXISTING "V" DITCH IN R.O.W.

BLAKE ROAD