HYDROLOGY

K17/D37

K17/D37

K17 / D37

SITE DESCRIPTION
LOT: #9 #10, & #11
BLK: #11
ADD: MESA GRANDE ADDITION

DRAINAGE

SITE AREA 18000 FT², .4132
BUILDINGS 5778 FT², .1326
WALKS & BLACKTOP 8426 FT², .1934
TOP SOIL & PLANTING 3796 FT², .0872

UNDEVELOPED SITE

USING RATIONAL FORMULA Q = CIA
WHERE A = ACRE AREA
C = .35
I = 7.0

(.35)(7.0)(.4132) = 1.0123

Q = (.35)(7.0)(ACRE) = CFS (UNDEV.)

COMPOSITE FACTOR "C"

BUILDINGS, BLACKTOP & WALKS = .95 x AC = _____ (.95)(.3260) = .3097
TOP SOIL & PLANTING = .35 x AC = _____ (.35)(.0872) = .0305
TOTAL = _____ = "C"
TOTAL (ACRE) .3402
.4132

"C" = .82

DEVELOPED SITE

Q = ("C")(7.0)(ACRE) = CFS (DEV)
MINUS CFS (UNDEV)
TOTAL CFS RETAINAGE

2.3718
1.0123
1.3595

(.82)(7.0)(.4132) = 2.3718

RETAINAGE AREA

USING 2.5" FOR A 6 HR - 100 YR STORM
TOTAL VOLUME OF RUNOFF = 2.5" x AREA FT² x RUNOFF COEF. / 12 = FT³ RETENTION

$\frac{(2.5)(18000)(.82)}{12} = \frac{36900}{12} = \frac{307.5 \text{ FT}^3}{3795 \text{ FT}^2} = .31$ AVE DEPTH

OPEN SPACE & PARKING REQ.

TOTAL SITE AREA. 18000 ft
BALCONY AREA CREDIT. 684 ft
TOTAL USABLE SPACE 18,684 ft

COVERED AREA FT

TOTAL LIVING GRND AREA 5562
TOTAL EXT. STOR OR UTIL AREA 216
TOTAL BLACKTOP & PARKING 7737
TOTAL OTHER.
TOTAL COVERED AREA 13516

OPEN SPACE REQ

NO	TYPE	FT²		FT²
8	1BR	200	=	1600
10	2BR	250	=	2500
	3BR		=	
	OTHER		=	
	TOTAL			4100

PARKING REQ

PER BATH		SPACES
@ 1½	=	12
@ 1½	=	15
@	=	
@ LAUNDRY	=	1
TOTAL		28 SPACES

@ 25% = 7 SM. SPC.
21 REG. SPC. 4/2 HANDICAP

	FT²
AVAILABLE UNCOVERED AREA =	14,584 ft
TOTAL COVERED AREA =	13,516 ft
TOTAL EXCESS AREA =	1,068 ft

CALCULATIONS BY K.W. ROBINSON 9/31/77

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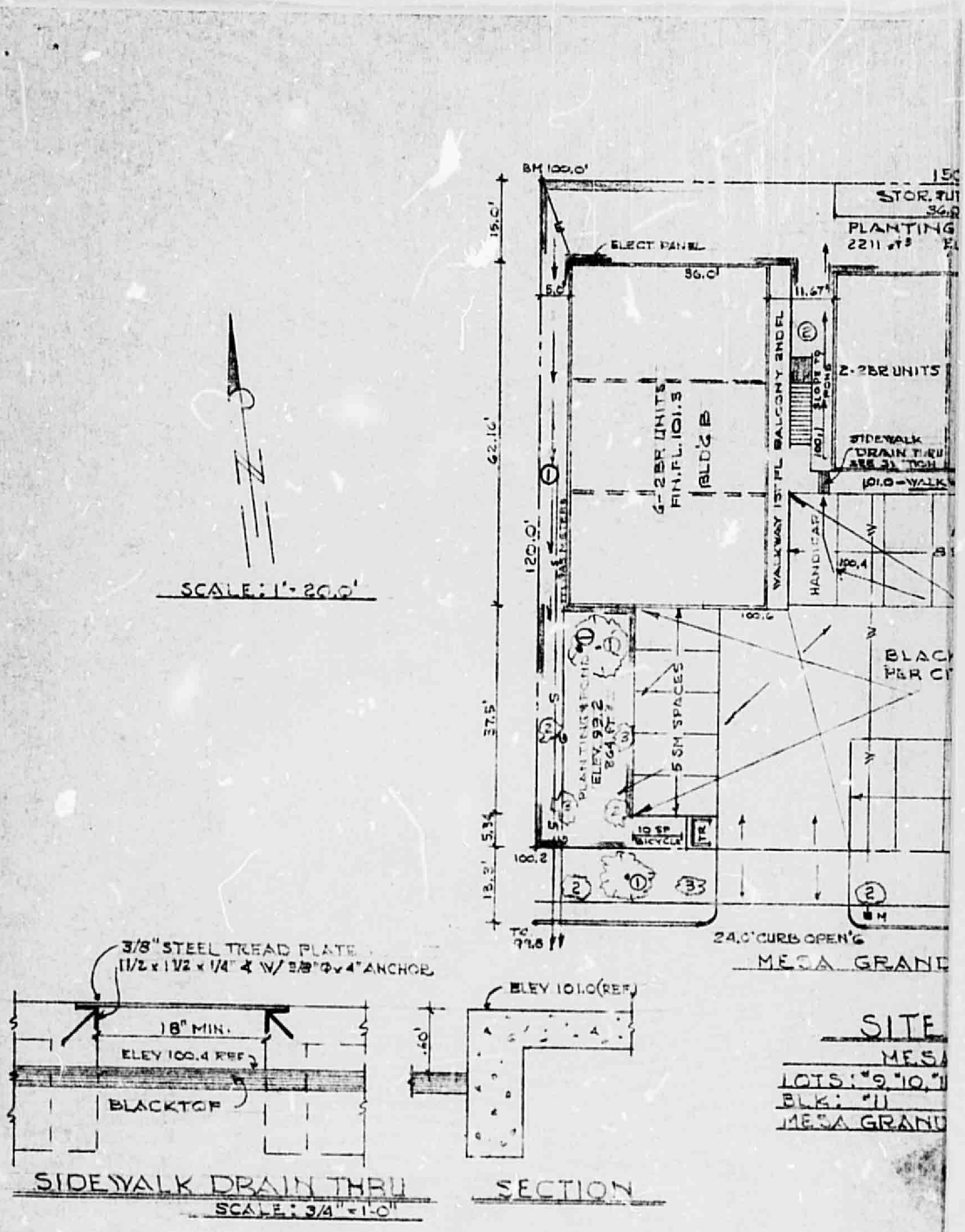

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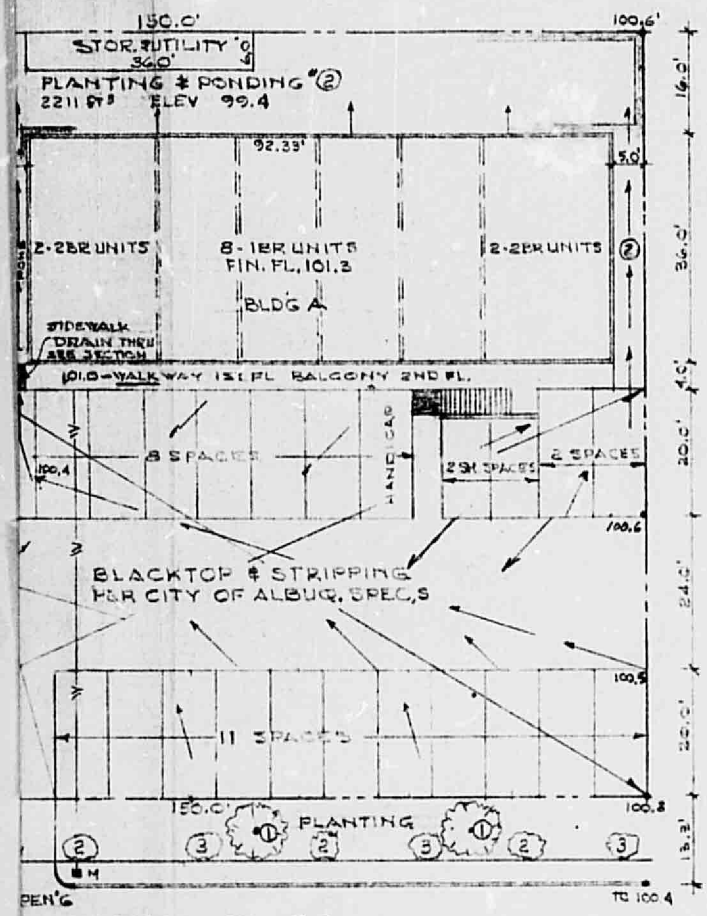
Plan Shot In Two Sections.



A GRANDE PL. S.E.

SITE PLAN

MESA GRANDE PL. S.E.

TS: #9, #10, #11

K: #11

SA GRANDE ADDITION

WN BY: P.W. ROBINSON 6/16/77

REV. 9/3/77

PLANTING SCHEDULE

1. PURPLE LEAF PLUM
2. TAMMY JUNIPER
3. PHITSER

REGISTERED ARCHITECT
STATE OF
NO. 262
ROBERT C. ...

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