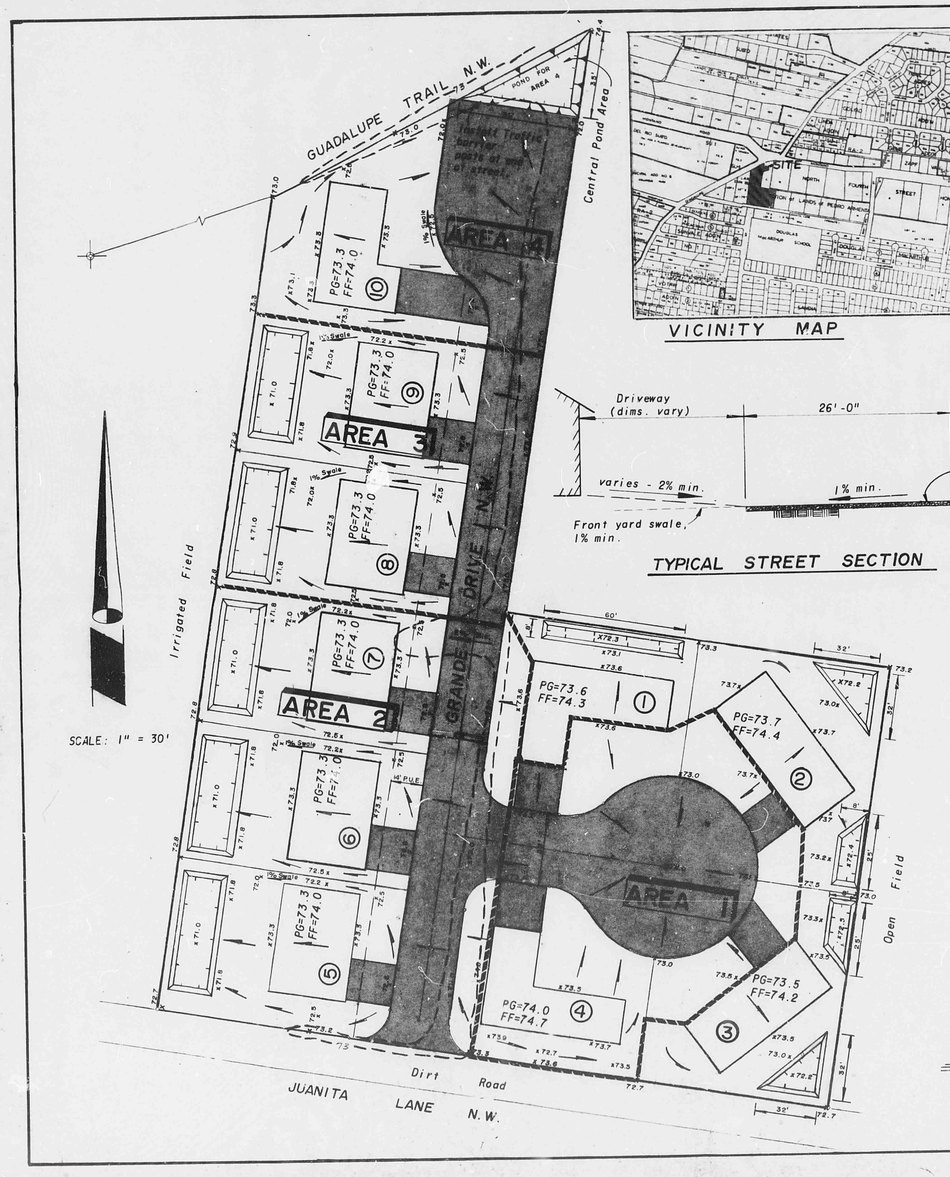
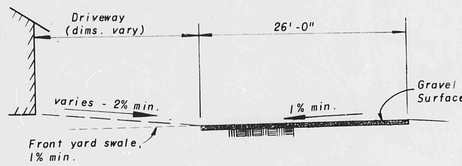
HYDROLOGY

F14/D2

ONE PLAN



VICINITY MAP



TYPICAL STREET SECTION

STORM RUNOFF CALCULATIONS

Area 1 (Lots 1,2,3,4)

Roof and rear yards of lots 1,2,3 drain to back yard pond, sizes shown on plans. Front yard of lots 1,2,3 and entire yard of lot 4 drains to cul-de-sac. Cul-de-sac depressed in center to serve as infiltration ponding area.(Private Street)

Lot No.	Area Draining To Pond	Composite "C" Factor	6 hr.-100 yr. Rainfall	Volume Required
1,2,3,4	16,650 sq.ft.	0.58	2.2"	1,770 cu.ft.

Volume of cul-de-sac depressed 1'-0" in center = 1,835 cu.ft.

Area 2 (Lots 5,6,7)

Side yards of lots 1 and 4, str ' common to lots 5,6,7, and entire lot area of lots 5,6,7 drain to individual back yard ponds.

Lot No.	Area Draining To Pond	Composite "C" Factor	6 hr.-100 yr. Rainfall	Volume Required	Pond Size
5	9,724 sq.ft.	0.48	2.2"	856 cu.ft.	21'x50'
6	8,580 sq.ft.	0.50	2.2"	787 cu.ft.	20'x50'
7	8,580 sq.ft.	0.49	2.2"	771 cu.ft.	19'x50'

Area 3 (Lots 8 and 9)

Street common to lots 8 and 9, and entire lot area of lots 8 and 9 drain to individual back yard ponds.

Lot No.	Area Draining To Pond	Composite "C" Factor	6 hr.-100 yr. Rainfall	Volume Required	Pond Size
8	7,800 sq.ft.	0.53	2.2"	758 cu.ft.	19'x50'
9	7,800 sq.ft.	0.53	2.2"	758 cu.ft.	19'x50'

Area 4 (Lot 10)

Entire lot, plus street common to lot 10 drains to pond located at north end of street.

Lot No.	Area Draining To Pond	Composite "C" Factor	6 hr.-100 yr. Rainfall	Volume Required	Pond Size
10	12,780 sq.ft.	0.62	2.2"	1,453 cu.ft.	As shown on plan-depth 1.6' deep with no gravel, or 4' deep filled with gravel.

LEGEND:

- EXISTING COUNTOURS
- DRAINAGE BOUNDARY
- SURFACE FLOW DIRECTION
- x 73.9 FINISHED SPOT ELEVATIONS
- PG=73.5 HOUSE PAD FINISHED GRADE
- FF=74.2 HOUSE FINISHED FLOOR ELEVATION
- GRAVEL ROAD

CAMINO RAEL DRAINAGE STUDY

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FIGURE II