HYDROLOGY G15 H15/D5 1 PLAN

H15/D5

1 PLAN

DURA BILT
PRODUCTS, INC.
4808 JEFFERSON, N.E.
ALBUQUERQUE, N.M. 87109
TELEPHONE (505) 883-9100

November 24, 1981

City of Albuquerque
P. O. Box 1293
Albuquerque, New Mexico 87103

Attn: Fred J. Aguirre, P.E.
Civil Engineer

Dear Mr. Aguirre;

Re: 721 Candelaria N. E.

I am in receipt of your letter dated November 16, 1981. As per our telephone conversation this date, this letter is to inform you that the grading, paving and drainage work for the above referenced site was excluded in Dura Bilt Product's work. The grading, drainage and paving was the responsibility of the owner.

I do know that a drainage inspection had been called for sometine about March, 1981, and have confirmed this verbally with the owner.

If I can answer any questions concerning this matter, please do not hesitate to call me.

Sincerely,

Daniel J. McDonald
by M. Eugenia Mueller

Daniel J. McDonald
President

DJM:em

RECEIVED
NOV 30 1981
CITY ENGINEER

Stra Steel
BUILDING SYSTEMS

PONDING CALCULATIONS

CRIST MACHINERY BLDG
721 CANDELARIA NE
ALBUQUERQUE, N.M.

AREA "A" 26,825 SQFT

PERVIOUS: 50' x 170 = 8500
20 x 18 = 360
~~IMPERVIOUS~~ ½(25 x 18) = 225
9085 SQFT

IMPERVIOUS = 17,740 SQFT

$$\therefore \frac{(17,740)(.9) + (9085)(.35)}{26,825} = 0.71$$

$$\therefore 0.71(26825)\left(\frac{2.0}{12}\right) = \underline{3174}\ ft^3 \text{ POND REQ'D}$$

AREA "B" 21,850 SQFT

PERVIOUS: 20 x 225 = 4500
− 20 x 35 = − 700
+ 30 x 70 = 2100
5900

IMPERVIOUS − 15,950

$$\therefore \frac{(15950)(.9) + (5900)(.35)}{21850} = 0.75$$

$$\therefore 0.75(21850)\left(\frac{2.0}{12}\right) = \underline{2731}\ ft^3 \text{ POND REQ'D.}$$

AREA "C" 57,665

IMPERVIOUS 10,320 SQFT

PERVIOUS. 47,345 SQFT

$$\therefore \frac{(10320)(.9)+(47345)(.35)}{57,665} = 0.44$$

$$\therefore (0.44)\,57665\left(\frac{2.0}{12}\right) = \underline{4228.}$$ POND REQ'D.

POND "A" REQ'D VOLUME = 3174 CU. FT.

AREA = 2835 SQFT
1.23 FT DEPTH

3543.75
- 214.00 LESS EMBANKMENT

3329.75 CUFT POND CAPACITY
155 ft³ OVERSIZED

POND "B" REQ'D VOLUME = 2731 CU.FT.

AREA = 2200 SQFT
1.4166 FT DEPTH

3116.52 CU.FT
- 260.00 LESS EMBANKMENT

2856.52 CUFT POND CAPACITY
125 ft³ OVERSIZED

POND "C" VOLUME REQ'D = 4228 CU. FT

AREA 8320 SQFT
.6666' DEPTH

5546.12 CUFT
- 480.00 LESS EMBANKMENT

5066.12 POND CAPACITY
838 ft³ OVERSIZED