

LEGAL DESCRIPTION

A part of the Southeast 1/4 of Section 22, T3N, R11E, City of Rochester Hills, Oakland County, Michigan, being a part of Lot 6 and a part of Parcel "C" of "Harris Place Farm" as recorded in either 15, Page 24 of Plans, Oakland County Records, more particularly described as appearing at the Southwest corner of Section 22; thence S01°48'43"W, 871.99 feet along the East line of Section 22; thence S87°53'43"W, 70.00 feet to a point on the westerly right-of-way line of Rochester Road as described in either 6555, Page 460 of Plans, Oakland County Records, also being the point of beginning; thence containing S87°53'43"W, 431.16 feet; thence S01°48'43"W, 229.00 feet; thence S88°00'42"W, 146.62 feet to a point on the westerly line of Rochester Road, thence S01°48'43"W, 170.08 feet to the point of beginning and containing 2,499 acres, BOWEN NO. 19-20-01-015 & 016.

- LEGAL DESCRIPTION**
- NOTES**
1. "DO PARKING - FIRST EAST" CROSS DRIVE BE LOCATED AS DIRECTED BY THE CITY ZONING PARCEL.
 2. ALL FINAL UTILITIES TO BE LOCATED WITHIN INCLUDING EXCEPT A.E.L. UTILITIES.
 3. GROSS LAND AREA OF 0-01, 1,222 AC. NET LAND AREA OF 0-01, 1,203 AC.
 4. PROJECT IS NOT PROPOSED TO BE PHASED.

LEGEND

Approved by the Rochester Asphalt Pavement Hills Planning Commission

CONCRETE PAVEMENT Date OCT 27 1987

ENGINEER'S SEAL

REVISIONS

NO. DATE BY

1. 10-27-87 PER CITY REVIEW

2. 11-18-87 PER CITY REVIEW

3. 10-27-87 PER CITY REVIEW

PROPRIETOR FILE # 87-876

REVISION

NOV 23 1987

1812 OFFICE PARK

CITY OF ROCHESTER HILLS

SECTION 22

OAKLAND COUNTY, MICHIGAN

SEIBER-KEAST & ASSOCIATES, INC.

REGISTERED ENGINEER

33020 NORTHWESTERN HWY. WEST BLOOMFIELD, MI 48322

PHONE: (313) 855-5955

NOT TO BE USED AS CONSTRUCTION DRAWINGS

1812 OFFICE BUILDINGS

STORM WATER DETENTION CALCULATIONS

ELEVATION	AREA (S.F.)	VOLUME (C.F.)
807.60	0	0
804.0	235	64
809.0	2,097	1,841
810.0	4,410	3,254
TOTAL		5,169 CUBIC FEET

PARALLEL LOT STORAGE

CATCHBASIN 3: 4.458/3 T = 1,346 CUBIC FEET

CATCHBASIN 4: 1.962/3 T = 630 CUBIC FEET

TOTAL STORAGE VOLUME PROVIDED 1,903 CUBIC FEET

REFERENCE: STORAGE PROVIDED IS ADEQUATE.

OFFICE BUILT

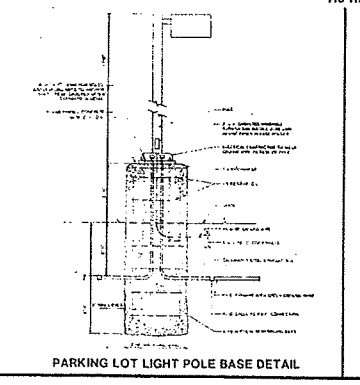
1 = 810.0-807.75 = 2.25 FEET, 0 = 0.25 C.F.

2 = 811.125-807.75 = 3.375 FEET, 0 = 0.25 C.F.

3 = 812.25-807.75 = 4.5 FEET, 0 = 0.25 C.F.

Area of 1" pipe = 0.0218 S.F.; Area of 1" pipe = 0.045 S.F.

8" x 2" 1812 OFFICE RESTRICTION 4 = 0.0218 S.F.



DESIGN CRITERIA - TWO YEAR STORM

STORM WATER STORAGE REQUIRED

1.25 inches Overflow: 1.72 acres @ 0.30 CFS/AC = 0.344 CFS

Q₁ = 0.50

Q₂ = outflow (A x C) = 0.344(1.37x10.60) = 0.33 cfs/ac-sec.

T = 25(6.567-570)^(1/3) = 131.5 MINUTES

V₁ = 10,300 1/(25x7) = 40 ± Q₁ x T = 8,429 = 2,874 ± 6,005 C.F.

V₂ = 1/2 x A x C = 6,005 x 1.72 x 0.40 = 4,149 Cubic Feet Required

