

Dunham Lake Property Owners' Association

P.O. Box 393

Highland, Michigan 48043

February 17, 1984

Mr. Gary R. Boss
Boss Engineering Co.
3121 E. Grand River Ave.
Howell, Michigan 48843

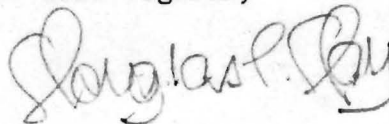
Dear Mr. Boss,

I am writing to inform you that we will not be taking any action regarding the Dunham Lake "greenbelt" survey during calendar year 1984. The survey proposal was presented at our January annual meeting and voted down by association members due to a lack of funds.

Please be advised that this does not close the door on this issue. There is a great deal of support to implement the survey and we plan to give it priority status on our list of projects to be accomplished.

Thank you for your personal and professional assistance in enabling us to bring this matter before the association.

Best regards,



Douglas L. Day
President



BOSS ENGINEERING COMPANY
CIVIL ENGINEERS & LAND SURVEYORS

*Cons. to be set
found in each Sec.
Total of 5 Sections
@ Side per/mon. cost*

Dunham Lake Property Owner Assoc.
c/o R.J. Miller
560 West Maple, Suite D407
West Bloomfield, MI 48033

January 10, 1984

Dear Mr. Miller,

Enclosed are the traverse closure printouts for the 5 plats involving the Association. They show the "Park" areas and the major discrepancies are all accounted for. A field inspection was made to verify our findings and the total project can proceed as proposed.

Boss Engineering will survey all lot corners common to the park areas at a cost of \$100.00 per lot or road involved. We will place 3' concrete monuments at an additional charge of \$15.00 each. If you want wooden 4 X 4's or similar points set, that aid in corner location, we will set your points at a cost of \$10.00 per point.

Should you decide to do only a portion of the lots at this time, the per lot cost will remain good for a one year period and would change after that only to reflect increased costs.

If you have any questions, please call anytime.

Respectfully submitted,
BOSS ENGINEERING CO.

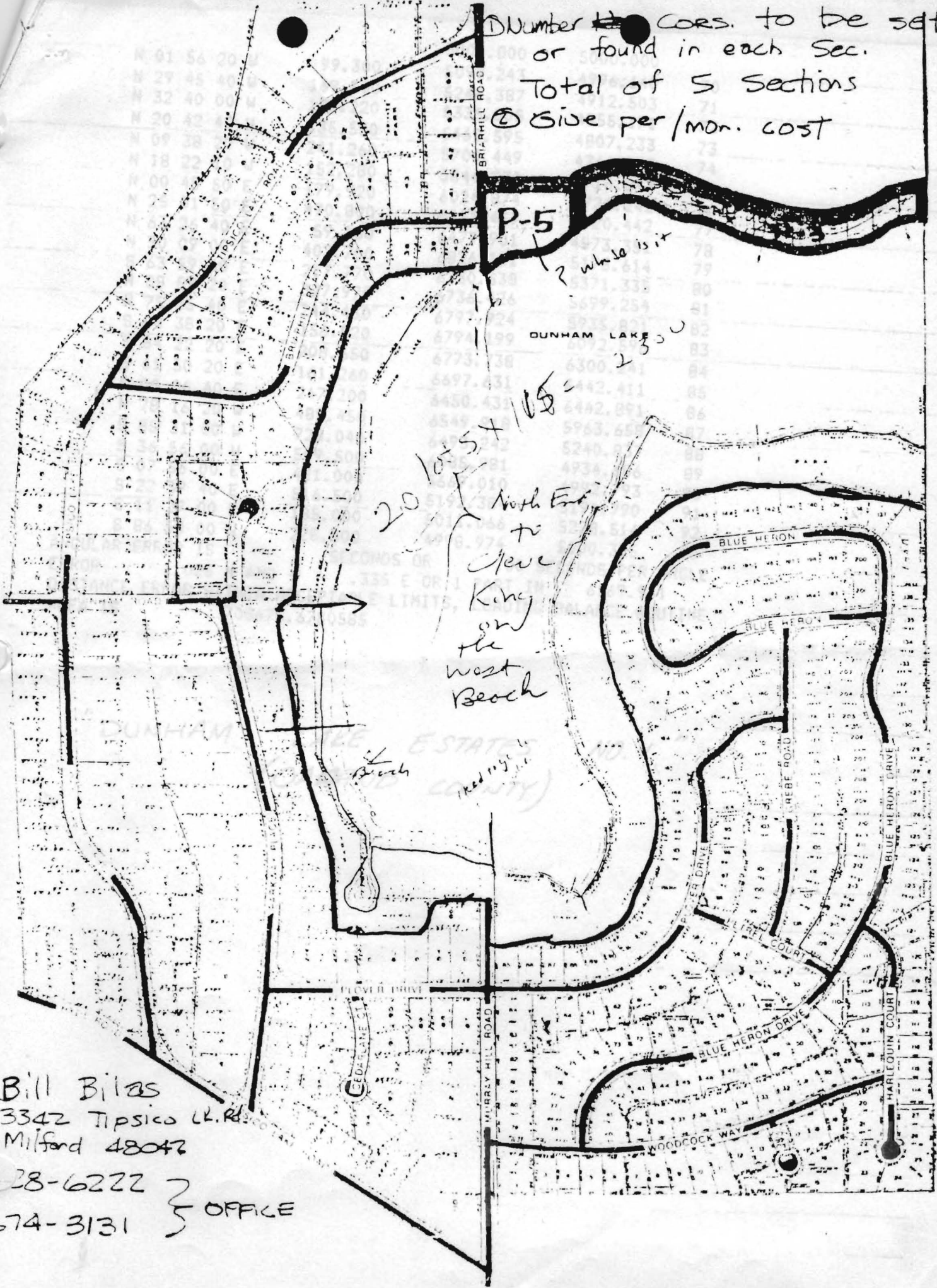
Gary R. Boss
Gary R. Boss, P.E., R.L.S. #1702

GRB/sh

Enclosures

*Bill B. 100
342 7300
4000
28
6222
74-3131*

① Number ~~of~~ Cores. to be set
 or found in each Sec.
 Total of 5 Sections
 ② Give per/mon. cost



20 10' x 5' + 105' =
 North End
 to
 Cleve
 King
 on
 the
 West
 Beach

P-5
 ? where is it

DUNHAM LAKE
 2330

ESTATES
 (Kendall County)

Bill Bilas
 3342 Tipsico Lk. Rd.
 Milford 48042
 28-6222 }
 74-3131 } OFFICE

			5000.000	5000.000				
N	01	56	20	W	99.300	5099.243	4996.640	70
N	29	45	40	W	169.500	5246.387	4912.503	71
N	32	40	00	W	106.220	5335.805	4855.171	72
N	20	42	40	W	135.550	5462.595	4807.233	73
N	09	38	20	W	241.260	5700.449	4766.837	74
N	18	22	10	W	152.280	5844.970	4718.847	75
N	00	45	50	E	179.920	6024.874	4721.245	76
N	25	01	50	E	470.800	6451.457	4920.442	77
N	63	26	40	E	59.150	6477.901	4973.351	78
N	30	09	00	E	402.700	6826.121	5175.614	79
S	63	59	40	E	217.770	6730.638	5371.335	80
N	88	59	20	E	327.970	6736.426	5699.254	81
N	75	25	40	E	244.430	6797.924	5935.821	82
S	88	38	20	E	156.820	6794.199	6092.596	83
S	84	22	20	E	208.650	6773.738	6300.241	84
S	61	50	20	E	161.260	6697.631	6442.411	85
S	00	06	40	E	247.200	6450.431	6442.891	86
N	78	16	20	W	489.450	6549.918	5963.658	87
S	85	31	00	W	725.040	6493.242	5240.837	88
S	36	56	00	W	509.500	6085.981	4934.686	89
S	07	56	00	E	421.000	5669.010	4992.793	90
S	22	39	40	E	516.500	5192.384	5191.790	91
S	11	27	00	E	185.000	5011.066	5228.514	92
S	86	58	00	W	228.500	4998.974	5000.335	93

ANGULAR ERROR IS SECONDS OR .00 SECONDS PER ANGLE
 ERROR 1.026 N AND - .335 E OR 1 PART IN 6169.931
 DISTANCE ERROR WITHIN ACCEPTABLE LIMITS, LOADING BALANCE ROUTINE
 AREA IS 708475.6780585

"DUNHAM LAKE ESTATES NO. 1,"
 (OAKLAND COUNTY)

N 00 00 00 E	327.480	5000.000	5000.000	
S 84 16 40 E	209.700	5327.480	5000.000	60
S 61 32 00 E	184.530	5306.572	5208.655	61
N 39 01 20 E	126.490	5218.616	5370.874	62
N 21 53 20 E	141.770	5316.886	5450.515	63
N 01 56 20 W	101.610	5448.436	5503.368	64
N 86 58 00 E	228.500	5549.988	5499.930	65
S 08 14 50 W	291.569	5562.079	5728.110	66
S 54 45 45 W	473.055	5273.526	5686.286	67
N 90 00 00 W	300.000	5000.588	5299.910	68
			4999.910	69

ANGULAR ERROR IS SECONDS OR .00 SECONDS PER ANGLE
 ERROR - .588 N AND .090 E OR 1 PART IN 4006.540
 DISTANCE ERROR WITHIN ACCEPTABLE LIMITS, LOADING BALANCE ROUTINE

DISTANCE ERROR WITHIN ACCEPTABLE LIMITS, LOADING BALANCE ROUTINE
 AREA IS 205005.3627931

DUNHAM LAKE ESTATES CENTER
 PARK A

"DUNHAM LAKE ESTATES"
 (LIVING) (OAKLAND COUNTY)

S 00 00 00 W	145.000	4855.000	5000.000	1
S 77 00 00 W	110.000	4830.255	4892.819	2
S 46 00 00 W	115.000	4750.370	4810.095	3
S 42 45 00 W	205.000	4599.834	4670.941	4
S 31 30 00 W	420.000	4241.725	4451.492	5
S 03 30 00 W	287.950	3954.312	4433.913	6
S 89 07 45 W	230.590	3950.807	4203.349	7
N 17 44 00 E	735.230	4651.102	4427.291	8
N 44 44 00 E	200.000	4793.180	4568.053	9
N 84 44 00 E	288.250	4819.639	4855.086	10
N 32 47 00 E	206.700	4993.417	4967.006	11
S 89 16 00 E	33.000	4992.995	5000.004	12

ANGULAR ERROR IS - SECONDS OR - .00 SECONDS PER ANGLE
 ERROR 7.005 N AND - .004 E OR 1 PART IN 424.913
 DISTANCE ERROR WITHIN ACCEPTABLE LIMITS, LOADING BALANCE ROUTINE
 AREA IS 205005.3627931

"DUNHAM LAKE ESTATES CENTER"
 "PARK A"
 (LIVINGSTON COUNTY)

S 03 30 00 W	97.050	4903.131	4994.075	20
S 27 30 00 W	355.000	4588.242	4830.154	21
S 08 31 38 W	216.980	4373.661	4797.981	22
N 89 02 00 W	92.230	4375.217	4705.764	23
N 05 47 14 E	631.500	5003.498	4769.441	24
N 89 07 45 E	230.590	5007.003	5000.004	25

ANGULAR ERROR IS 227 SECONDS OR 9.93 .00 SECONDS PER ANGLE
 ERROR - 7.003 N AND - .004 E OR 1 PART IN 231.817
 DISTANCE ERROR WITHIN ACCEPTABLE LIMITS, LOADING BALANCE ROUTINE
 AREA IS 96554.12828045

N 01 09 08 E	312.500	3880.982	5068.987	41
N 08 37 00 W	451.700	4327.584	5001.312	42
N 04 48 00 W	130.200	4457.327	4990.417	43
N 00 13 00 W	183.800	4641.126	4969.722	44

"DUNHAM LAKE ESTATES" CENTER

"PARIL B"

ANGULAR ERROR IS - 9.170 N AND - 42.953 E OR 1 PART IN 67.236
 DISTANCE ERROR WITHIN ACCEPTABLE LIMITS, LOADING BALANCE ROUTINE

(LIVINGSTON COUNTY)

DUNHAM LAKE ESTATES SOUTH

(LIVINGSTON COUNTY)

S 00 50 00 W	663.600	5000.000	5000.000	
S 20 35 00 E	300.220	4336.470	4990.349	31
S 44 09 00 E	134.860	4055.416	5095.897	32
S 03 55 00 W	249.300	3958.651	5189.832	33
S 90 00 00 E	527.500	3709.933	5172.804	34
S 00 00 00 W	30.000	3709.933	5700.304	35
N 90 00 00 W	227.500	3679.933	5700.304	36
S 00 00 00 W	101.350	3679.933	5472.804	37
N 90 00 00 W	310.000	3578.583	5472.804	38
S 84 16 00 W	100.500	3578.583	5162.804	39
N 01 08 00 E	312.500	3568.544	5062.806	40
N 08 37 00 W	451.700	3880.982	5068.987	41
N 04 48 00 W	130.200	4327.584	5001.312	42
N 00 13 00 W	183.800	4457.327	4990.417	43
N 18 23 00 W	182.100	4641.126	4989.722	44
N 11 16 00 W	202.000	4813.933	4932.293	45
S 89 02 00 E	170.150	5012.040	4892.827	46
		5009.170	5062.953	47

ANGULAR ERROR IS - SECONDS OR - .00 SECONDS PER ANGLE
 ERROR - 9.170 N AND - 62.953 E OR 1 PART IN 67.235
 DISTANCE ERROR WITHIN ACCEPTABLE LIMITS, LOADING BALANCE ROUTINE

major discrepancies are all accounted for. A field inspection was made to verify our findings and the total project can proceed as proposed.

DUNHAM LAKE ESTATES SOUTH
(LIVINGSTON COUNTY)

Should you decide to do only a portion of the lots at this time, the per lot cost will remain good for a one year period and would change after that only to reflect increased costs.

If you have any questions, please call anytime.

Respectfully submitted,
 BOSS ENGINEERING CO.

Daryl R. Boss
 Daryl R. Boss, P.E., W.C.S., S.T.C.

Enclosure

Enclosure

4. 10 71 51 28

*4 POSTS
1988

2000.29

DUNHAM LAKE

adverse possession

*Date
Week
April*

9:00

100 p.m

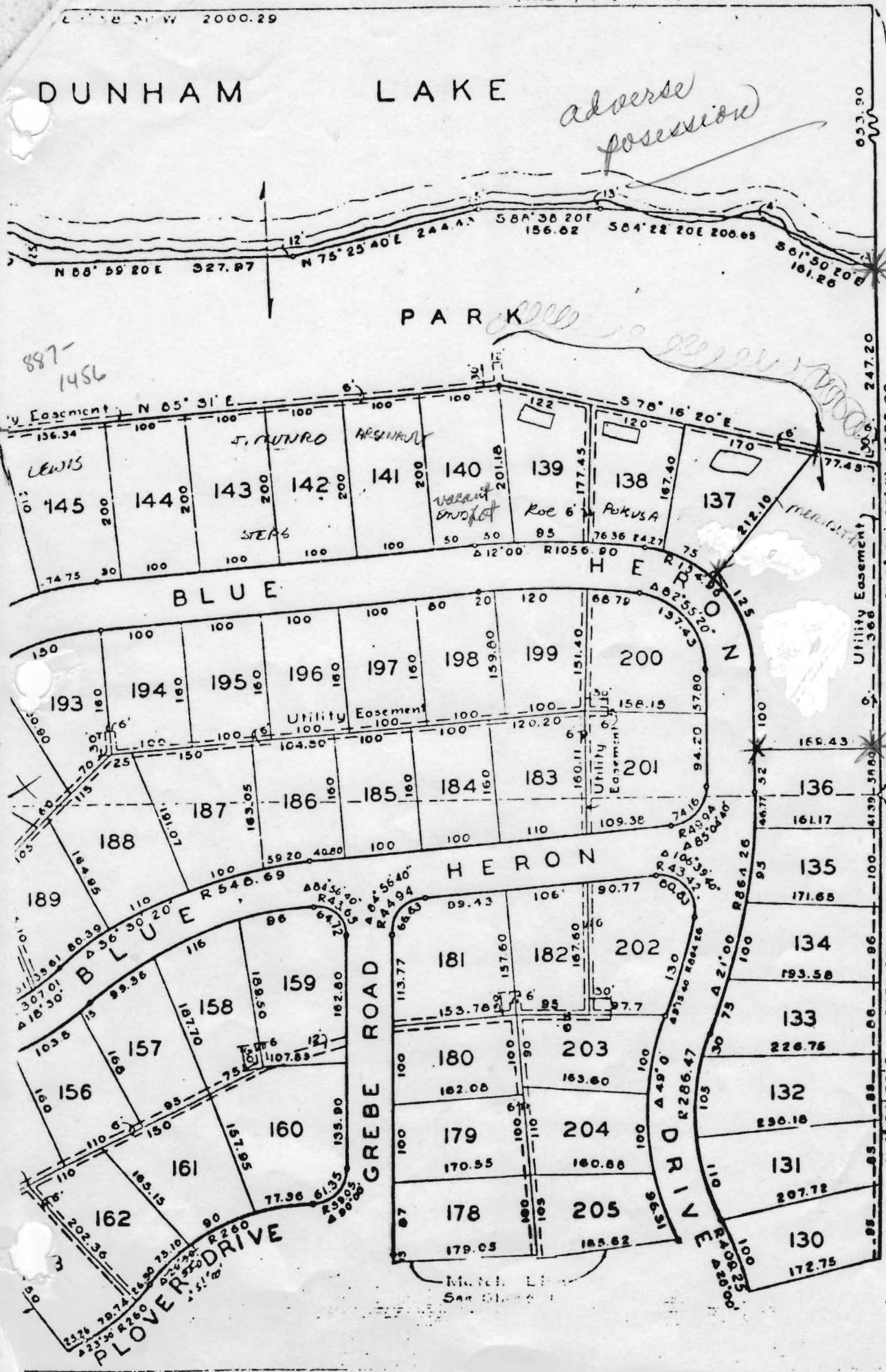
Specifications

Call

Bose

Engineering

897-
1456



PARK

BLUE

HERON

PLOVER DRIVE

GREBE ROAD

DRIVE

Lot #	Area (Acres)	Notes
127	0.12	
128	0.12	
129	0.12	
130	0.12	
131	0.12	
132	0.12	
133	0.12	
134	0.12	
135	0.12	
136	0.12	
137	0.12	
138	0.12	
139	0.12	
140	0.12	
141	0.12	
142	0.12	
143	0.12	
144	0.12	
145	0.12	
146	0.12	
147	0.12	
148	0.12	
149	0.12	
150	0.12	
151	0.12	
152	0.12	
153	0.12	
154	0.12	
155	0.12	
156	0.12	
157	0.12	
158	0.12	
159	0.12	
160	0.12	
161	0.12	
162	0.12	
163	0.12	
164	0.12	
165	0.12	
166	0.12	
167	0.12	
168	0.12	
169	0.12	
170	0.12	
171	0.12	
172	0.12	
173	0.12	
174	0.12	
175	0.12	
176	0.12	
177	0.12	
178	0.12	
179	0.12	
180	0.12	
181	0.12	
182	0.12	
183	0.12	
184	0.12	
185	0.12	
186	0.12	
187	0.12	
188	0.12	
189	0.12	
190	0.12	
191	0.12	
192	0.12	
193	0.12	
194	0.12	
195	0.12	
196	0.12	
197	0.12	
198	0.12	
199	0.12	
200	0.12	
201	0.12	
202	0.12	
203	0.12	
204	0.12	
205	0.12	



BOSS ENGINEERING COMPANY
CIVIL ENGINEERS & LAND SURVEYORS

March 14, 1985

Dunham Lake Property Owner's Association
c/o Ron Willis
P.O. Box 112
Highland, Michigan 48031

RE: Survey of Lake Lots (Ref. #83241)

Dear Mr. Willis,

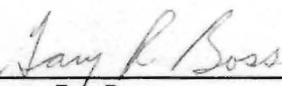
Boss Engineering will survey the lots around Dunham Lake as requested for the rates that are current at the time the work is ordered. You indicated that you did not want us to "brush" the lakeside line so it must be done on an hourly basis. It should be noted that, in light of your brushing requirement, the work scheduled for this year should be done prior to the trees starting to bud leaves. You will be able to get several more lots for your money prior to the leaves on the trees.

We will be willing to work with you relative to any time or budget constraints to get you the best value.

Please feel free to call anytime.

Very truly yours,

BOSS ENGINEERING COMPANY



Gary R. Boss
P.E., R.L.S.

GRB/db

SUBJECT: CALL
FROM: HERB COLE
RE: PARK SURVAY
DATE: 3-30-85
TIME: 6:00 P.M.

HERB
COLE INFORMS ME THAT SURVAY TEAM
WAS OUT FRIDAY MARCH 29TH.

QUESTION OF PROBLEM WITH LOT 36,
ASKED ME TO CHECK INTO IT FURTHER,
I SAID I WOULD. HERB ALSO SAID
HE WOULD LIKE TO SEE POSTS PLACED
AT DISTANCES OF NO FURTHER THEN 30
(THIRTY) FEET APART, THESE TO BE PLACED
BETWEEN THE 4X4 POSTS THAT BOSS ENGERNING
PUTS IN. I TOLD HERB WE COULD BRING
THIS UP AT A BOARD OF DIRECTORS MEETING
BECAUSE IT COULD REQUIRE MORE FUNDING.

HERB ALSO TOUCHED ON ^{THE} VACATED
ROAD, (DUNHAM RD) EAST OF PARK WAY. I TOLD
HIM I WOULD KEEP AN EYE ON IT (THE VACATED ROAD)

Jon R. Lelien

5-20-85

DUNHAM LAKE CIVIC COMMITTEE
DUNHAM LAKE BOARD OF DIRECTORS

SUBJECT:

MARKING OF THE PARK LAND WITH 4x4 POSTS

THERE IS NO CONSISTENT PATTERN IN PLACING THE POSTS. THERE ARE 6 STEEL RODS WITH NO 4x4 POSTS AFTER THE SURVEYOR FOUND THEM OR SET NEW ONES. 2 OF THESE 6 HAVE THE OLD ROUND POSTS THAT HAVE A SHORT LIFE SPAN. THESE STEEL RODS ARE BELOW OR EVEN WITH THE GROUND AND IN SOME CASES CAN ONLY BE FOUND BY A SURVEYOR. IF SOME STEEL RODS ARE NOT GOING TO HAVE POSTS THAN PLEASE REMOVE THE POSTS NEAR MY LOT. EVERYONE MUST BE TREATED THE SAME.

THE PURPOSE OF MARKING THE PARKLAND IS SO ALL DUNHAM LAKERS CAN SEE, WITHOUT HUNTING FOR, THE BOUNDARY LINE. EVEN IF ALL STEEL RODS ARE POSTED WITH 4x4 THE DISTANCE BETWEEN MOST POSTS IS TOO MUCH. PEOPLE STILL DO NOT KNOW WHERE THE LINE IS. I RECOMMEND A MINIMUM DISTANCE OF 20 FEET AND A MAXIMUM OF 30 FEET BETWEEN 4x4 POSTS.

HERBERT COLE
3091 PARKWAY CT.
LOT 6 DUNHAM LAKE CENTER

P.S. LET'S DO IT WITH OBJECTIVITY, DEDICATION AND COMPLETE EQUAL TREATMENT TO ALL LOTS THAT TOUCH OUR PARKLAND. ALSO, MY PERSONAL THANKS TO THOSE WHO HAVE WORKED ON THIS MOST DIFFICULT PROBLEM.

SURVEY

BOSS ENGINEERING 546-4836 - 517

AM
10:34-~~7~~

I CALLED 4-10-85, GARY BOSS WAS NOT IN.
AND ~~HAD~~ ^{THIS PERSON} COULDN'T ANSWER WHY THEY
HAD STOPPED WORKING. LEFT MY #
AND TOLD HIM TO HAVE GARY CALL ME.

CALLER: GARY BOSS 11:48 AM 10-APRIL 1985
WE TALKED ABOUT WHEN HE WAS GOING TO SET
4X4 POSTS, AND HOW FAR HE EXPECTED TO GET.
HE SAID IT WOULD BE AS FAR AS OUR MONEY
WOULD TAKE US THIS YEAR. HE WOULD SET
POSTS SOMETIME THIS WEEK (4-8 TO 4-13)

APRIL 16 -

POSTS NOT SET YET, ANY DAY NOW.
AFTER POSTS ARE SET WE PLAN TO AFFIX
NUMBERED PLATES TO THE POSTS. THE NUMBERS
WILL BE RECORDED ON LARGE PLAT MAP, THEN
WHEN THE BOARD DOES THEIR ANNUAL PARK
WALK, THEY SHOULD MAKE SURE ALL POSTS
ARE ACCOUNTED FOR.

SUBJECT: CALL
TO: Ron Willis
RE: PARK SURVAY
DATE: 3-30-85
TIME: 6:35 PM

I TOLD RON ABOUT MY CALL FROM HERB CLE
ON THIS SAME DATE, AFTER EXPLAINING THE
DETALES TO RON. HE (RON) TOLD ME HE
WOULD GET WITH GARRY BOSS AND FIND OUT
HOW THINGS WERE GOING, AND HE WOULD GET
BACK WITH ME AT THE NEXT REGULAR BOARD ~~ME~~
MEETING. APRIL 3RD 1985.

Jim R. LeBlair

other areas of the subdivision we have established a clear pattern of regular stake placement so that no claims of "foul" for partiality or favoritism can be made.

I applaud Mr. Cole's efforts who, as a long time resident, is justifiably concerned about the loss of our precious greenbelt. I urge the entire board to support his position and to clearly and distinctly identify our parkland boundaries throughout the entire subdivision and to aggressively restrict any and all encroachments on it.

If I may be of any further assistance in videotaping or photographing this area, please do not hesitate to contact me.

Sincerely,

Joseph J. Convery *rc*
Joseph J. Convery
3182 Briarhill
Milford, Michigan 48042
887-3644

cc:Mr. H. Cole

June 3, 1985

Mr. Rene LeGris
President
Board of Directors
Dunham Lake Property Owners Association
4540 Woodcock Way
Milford, Michigan 48042

Dear Mr. LeGris:

After walking the length of the parkland that has been surveyed so far this year, my wife and I must agree with Mr. Herb Cole that the survey, while a good start, is incomplete in this area.

I am sure that the Board agrees with me on the great importance of the green belt in maintaining the integrity of our beautiful, clean lake. Especially in light of the water survey results that credited the greenbelt for maintaining the cleanliness of the water, protecting it from fertilizers, etc. Plus, the greenbelt allows everyone in the subdivision to have access to the water and enjoy the natural areas of pines, wildflowers and beautiful deciduous trees. The intention of the parkland survey is to protect this area from encroachment by individual property owners and to protect the subdivision from future suits over boundary lines.

It was quite apparent during my walk that several homeowners have inadvertently "improved" parkland property to enhance their own lots at the forfeiture of the greenbelt. It is, in my opinion, essential that the survey stakes be placed with sufficient regularity (20-30 feet apart) so that any member of the DLPOA can comfortably walk the parkland and be confident that they are not encroaching anyone's property because they can clearly see from one stake to the next, despite topography or foliage. The additional stakes will also serve notice on homeowners to permit the greenbelt to return to its natural state and to remain so unimproved and in perpetuity. The turnover of homes in this area makes this an especially sensitive issue.

Finally, this first phase of the survey must be completed in such a way so that as we move around to

DUNHAM LAKE CIVIC COMMITTEE

P.O. BOX 393

HIGHLAND, MICHIGAN 48031

November 17, 1986

Pat Templeton
President DLPOA
1078 Blue Heron
Milford, Mi. 48042

Dear Pat:

During the summer of this year, the DLPOA completed surveying and marking park property in Livingston county. The DLPOA Board of Directors should be commended for taking the initiative to begin the survey and aggressively pursuing the project to completion of the Livingston county portion. This effort has required an expenditure of more than \$3500 to date and many man-hours of labor by various members of our association. An effective, uniform, and aesthetically pleasing identification of park boundaries has resulted from this gallant effort.

Now that positive identification of the Livingston county boundaries has been accomplished, it is evident that significant vegetation damage has occurred to some green belt areas due to either inadvertant or deliberate encroachments. As described in Association Property Regulation #1, violators are subject to treble damages. This clearing and mowing must be effectively brought to an immediate halt. If it has not already done so, the Board of Directors should remind all property owners that border the green belt of their responsibilities in writing.

Inspection of the encroachment areas reveals that reforestation of approximately 30,000 square feet is necessary on the Livingston county side in addition to the immediate stopping of future clearing and mowing. This reforestation should begin as soon as practical which would be the spring of 1987. Assuming that trees are planted ten feet apart, the areas affected would require approximately 300 trees.

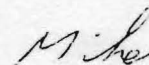
The Dunham Lake Civic Committee is charged through deed restrictions to provide the necessary funds for preservation, maintenance and upkeep of the park and lake areas and must now decide the level of assessment to be levied for 1987. Therefore, please advise the Civic Committee as to the Board's plan for accomplishing necessary reforestation and the proposed 1987 budget.

Besides planting some appropriate number of large trees, probably many smaller trees will also be required to fill in the bare areas. Such trees are available through the Soil Conservation Districts. For information phone: 517-548-1553. A wide variety of trees 12 to 18 inches tall can be purchased for approximately \$.25 each in quantity, but must be ordered soon for 1987 delivery.

The reforestation estimates mentioned above do not include the bay because I am not certain of the Board's plans. There has been some discussion on continuing to mow this area for tables to extend the picnic grounds. The halting of mowing and a return to the "natural state" has also been proposed. The Civic Committee will support either policy and requests an immediate decision and formulation of a plan by the Board on how to best utilize the area.

A timely resolution of these matters is required so that the decisions can be appropriately reflected in the "1987 Resolution of Assessments."

Sincerely,



Michael J. Wolanin
Treasurer, Civic Committee

cc: Dunham Lake Civic Committee
DLPOA Board of Directors

Dunham Lake Property Owners' Association

P.O. BOX 393

HIGHLAND, MICHIGAN 48031

August 1, 1986

Dear DLPOA Member:

As a property owner along the Dunham Lake greenbelt, you know that for the past two years the DLPOA has authorized Boss Engineering to conduct a Green Belt Survey here at Dunham Lake. When completed, this program will mean that the entire border of our valuable greenbelt will be marked with 4x4 posts to indicate where private property ends and our parkland begins. To date, the survey has been completed the entire length of the Livingston County side of the subdivision.

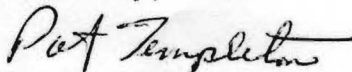
Every surveyor's stake, including lot lines and angle changes has been marked with a 4x4 post. These posts are not set on property lines, but rather one foot into the greenbelt itself.

All of us at Dunham Lake are aware of how important our greenbelt is in keeping fertilizer, septic wastes and erosion from our lake. Dr. Fusilier, in conducting our water survey last year, stated time and time again in his report how important this buffer strip is to the integrity of the lake. We have only to look at the weeds and algae of other area lakes to appreciate the crystal clear beauty of Dunham.

Additionally, the greenbelt allows all residents to access the lake and enjoy its recreational benefits.

As a property owner, it may have been difficult in the past for you to determine where your property ends and the greenbelt begins. Now that the posts are in place, kindly refrain from lawn mowing, brush cutting, or tree trimming past your property line. We also ask that you remove any private property, such as firewood piles, you may have placed on the greenbelt. In time, those areas inadvertently mown or cut will return to their natural state.

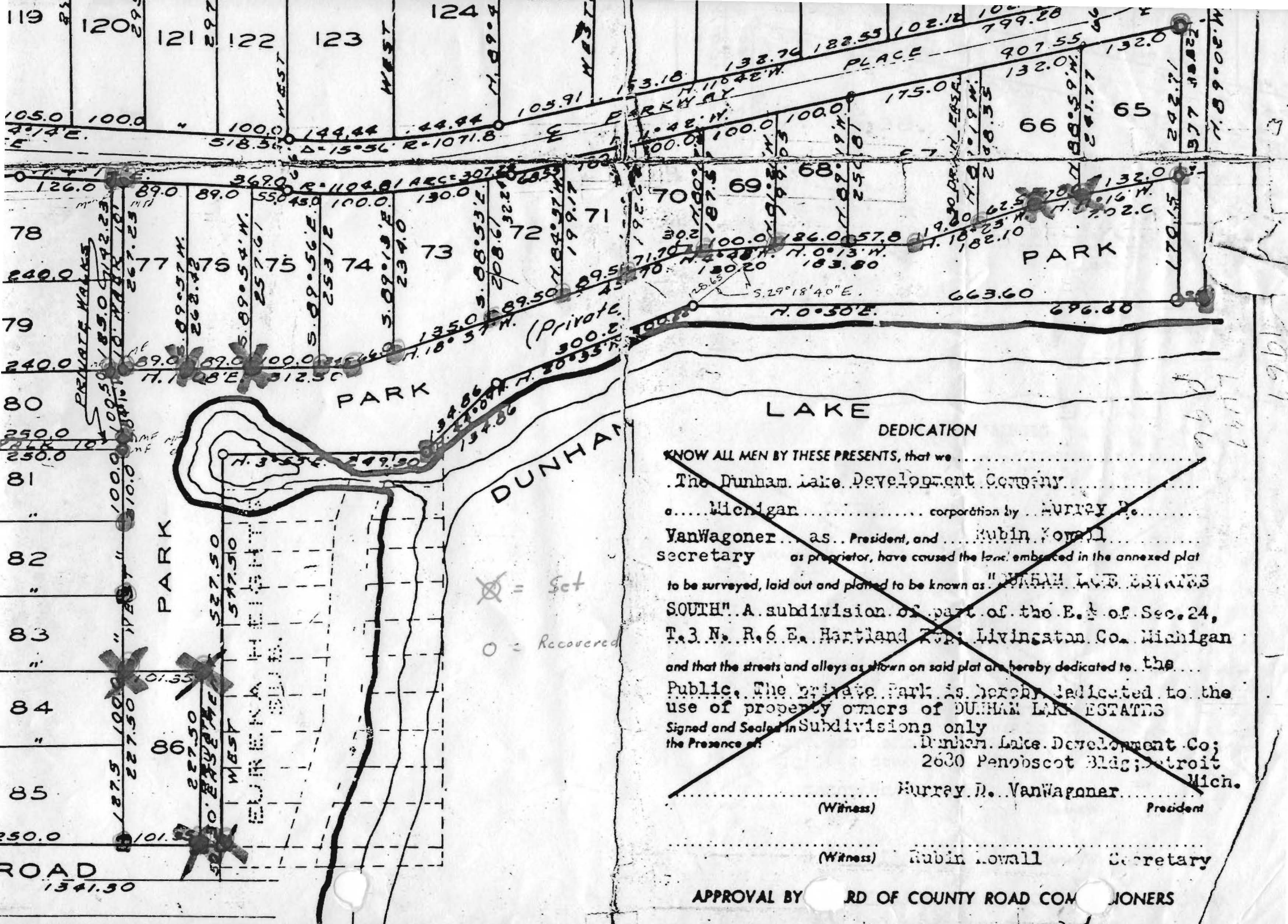
Sincerely,



Pat Templeton

President

Dunham Lake Property Owners Association



LAKE DEDICATION

KNOW ALL MEN BY THESE PRESENTS, that we

~~The Dunham Lake Development Company.....~~

~~a..... Michigan..... corporation by .. MURRAY D. VANWAGONER.....~~

~~Secretary as proprietor, have caused the land embraced in the annexed plat~~

~~to be surveyed, laid out and planned to be known as "DUNHAM LAKE ESTATES SOUTH". A subdivision of part of the E. 1/4 of Sec. 24, T.3. N., R. 6. E., Hartland Twp., Livingston Co., Michigan~~

~~and that the streets and alleys as shown on said plat are hereby dedicated to the~~

~~Public. The private Park is hereby dedicated to the use of property owners of DUNHAM LAKE ESTATES~~

Signed and Sealed in Subdivisions only

the Presence of: ~~Dunham Lake Development Co;~~
~~2630 Penobscot Bldg; Detroit Mich.~~

~~..... Murray D. VanWagoner.....~~
 (Witness) ~~.....~~ President

~~.....~~
 (Witness) ~~Rubin Kowall~~ Secretary

APPROVAL BY _____ RD OF COUNTY ROAD COMMISSIONERS

This plat has been examined and was approved on the _____ 1961

IN JULY 1986 THE SURVEY OF THE DUNHAM LAKE GREENBELT WAS COMPLETED ON THE LIVINGSTON COUNTY SIDE OF THE SUBDIVISION. EACH SURVEY STAKE WAS MARKED BY PLACING A 4X4 NUMBERED POST ONE FOOT INTO THE GREENBELT, ENABLING PROPERTY OWNERS AND THOSE UTILIZING THE PARK TO RECOGNIZE WHERE THE PARK ENDS AND PRIVATE PROPERTY BEGINS.

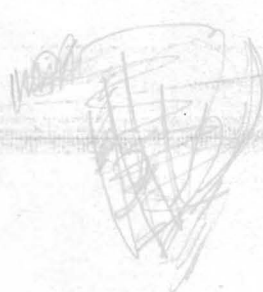
THE SURVEY IDENTIFIED A NUMBER OF AREAS UPON WHICH THE GREENBELT HAD BEEN ENCROACHED RESULTING IN SIGNIFICANT DAMAGE TO NATURAL VEGETATION AND FORESTS. THE DUNHAM LAKE PROPERTY OWNERS ASSOCIATION BOARD OF DIRECTORS IS COMMITTED TO PROTECTING AND PRESERVING OUR GREENBELT AND WILL ENFORCE ALL RULES AND REGULATIONS PROTECTING THESE AREAS.

BECAUSE OF THE LARGE AREAS AFFECTED BY THE ENCROACHMENTS THE BOARD OF DIRECTORS WILL UNDERTAKE A REFORESTATION PROGRAM *beginning* IN THE SPRING OF 1987. ALL AREAS ALONG THE LIVINGSTON COUNTY GREENBELT WHICH HAVE SUSTAINED SIGNIFICANT DAMAGE WILL BE REFORESTED WITH A MIXTURE OF TREES AND VEGETATION. NO CUTTING MOWING OR OTHER ALTERATIONS TO THE NATURAL SETTING WILL BE ALLOWED WITHIN THE GREENBELT.

MANY PROPERTY OWNERS HAVE ALREADY TAKEN STEPS TO END ENCROACHMENT INTO THE GREENBELT AND YOUR CONCERN AND COOPERATION IS AN EXAMPLE OF HOW A COOPERATIVE EFFORT WILL IMPROVE THE AREA FOR EVERYONE.

HOPEFULLY EACH OF YOU WILL JOIN US IN THE SPRING AS WE UNDERTAKE THE TASK OF REPLANTING THESE DAMAGED AREAS.

FAT TEMPLETON
PRESIDENT
DUNHAM LAKE PROPERTY OWNERS ASSOC.



DUNHAM LAKE PROPERTY
OWNERS ASSOCIATION
1986 BUDGET

as of 6/29/86

ITEM	APPROVED	SPENT	BALANCE	
OUTSIDE TRASH DISPOSAL	300.00	80.00	220.00	
NORTH PARK GRASS CUTTING	200.00	<i>100.00</i>	200.00	<i>100.00</i>
OTHER GRASS CUTTING	800.00	0	800.00	
PARK & WEST BEACH LIGHTING	350.00	<i>152.82</i>	210.48	<i>197.18</i>
WORKBEE EXPENSE	400.00	364.21	35.79	
PARK & BEACH CLEANUP	700.00	126.00	574.00	
POSTAGE	500.00	<i>356.20</i>	158.54	<i>143.80</i>
MEMBERSHIP DUES ACCOUNTING	150.00	0	150.00	
SECRETARIAL FEE	100.00	0	100.00	
LIABILITY INSURANCE	2000.00	2162.00	-162.00	
NEWSLETTER EXPENSE	450.00	227.08	222.92	
OTHER PRINTING	200.00	129.06	70.94	
MICHIGAN CORPORATION FEE	20.00	15.00	5.00	
FISH STOCKING	500.00	0	500.00	
GATE, FENCE & LOCK EXPENSE	1300.00	455.00	845.00	
PORTA-JOHN RENTAL	640.00	<i>260.00</i>	510.00	<i>380.00</i>
OFFICE EXP'S & BANK CHARGES	55.00	87.80	-32.80	
PICNIC SUBSIDY	125.00	0	125.00	
PARK MAINTENANCE	300.00	98.93	201.07	
SECURITY GUARD SERVICE	5000.00	1356.18	3643.82	
GREENBELT SERVEY	1500.00	1565.87	-65.87	
RAFT REPAIR	400.00	0	400.00	
EAST BEACH SAND	1000.00	0	1000.00	
			0	
TOTAL BUDGET	16990.00	TOTAL SPENT	CURRENT BALANCE	
		7278.16	9711.84	
		<i>7536.15</i>	<i>9453.85</i>	

Spoke to Sam Boss
4/21

technically dunham is still a public road,
allowing access to lake. Was once
an access.

Moving a metal stake is a
Misdemeanor

3 hours @ \$90 = \$270 if they move

Get a restraining order to prevent them moving the
stake → then contempt of court

4/21 - inspected markings behind 65, 66, 67 & 68.
Steel stake between 66 & 67 moved. It belongs
3 ft west of tree & marked "new". 35 ft. west of unplaced
wooden stake
Steel stake ^{appears} out of place in middle of 67. Found steel
stake in place, unlabeled with

End of July, 1986. Boss engineering reset ~~7~~ stakes
in middle of 66 and at intersection of 66 & 67. Boss
also placed 4x4's

1986 Survey Expenses

~~price~~ price on 4x4x12 cut to 6' lengths - 7.75

1986 work

26 ports (if streets marked at easements - 30)

1985 work

6 stakes at engineer's points : 2 on easements

2

39/40

36/37

35/36

38/39 - replace round port

3 line of sight: behind 39, 40 and between 0 & 1.

replace round ports due to potential of rotting
most are weak

Civic Committee is legal authority. They should
decide what ^{legal} action will be done if ports are
moved

7.75 for 12 footer

139.50 for 36

7.75

32

15.50

~~237.5~~

248.00

232.5

00

124 for 32

20

35 - port hole

79

Boys -
517-546-4836

no more than
75'

2 Woodpiles on lot 65

say DLPOA

another stake behind Haggerty

encroachment behind Cook's

need stake behind Robins

more stake

behind Chivinski

clearing behind 38 - Stipsack

woodpile on line 38/39

4/19 - John LeBris said they were probably
60 feeters.

Noticed stake markings from middle
of lot 66

4/20 Ask Mary Boss about:

Angle from Bailey to next house

Missing stake in 66

Angle from Donahue to 66

Can we get up-to-date plat?

#

30 points for Livingston County minimum.

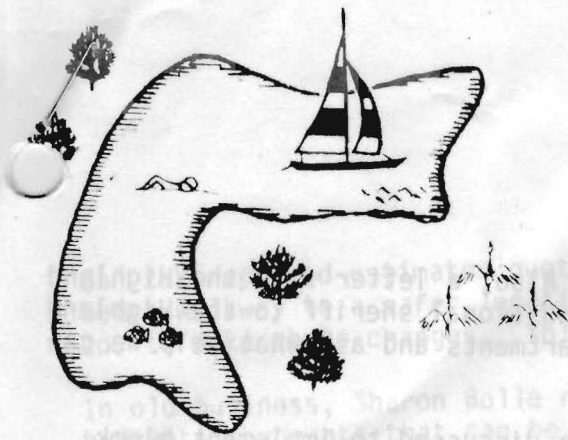
26 on park - 8 reset, 18 found & checked - G.B. 4/21/86

4-15-86

JO + PAT

SINCE I DID NOT GET A
NEGATIVE THOUGHT ABOUT MY LETTER TO
THE CIVIC COMMITTEE I DELIVERED
THEM. ALSO, I INCLUDED THE
INCLOSED. PLEASE LET ME KNOW
AS SOON AS THE BOARD MAKES UP
ITS MIND. ALSO, WHEN I TALKED
TO THE '86 PRES. HE DID NOT RECALL
THE '85 PRES. SAYING THERE WOULD BE
MORE POSTS PUT IN. MAYBEE MR. REGRISS
FORGOT TO BRING UP THIS MATTER TO THE
'85 BOARD.

HERB



The Dunham Laker

April 16, 1986

Livingston County Editor	Sherry Kenneweg	887-8492
Oakland County Editors	Cathy Lewis	887-4513
	Felicia Skrzypek	887-1004
Typist	Diane Preister	887-7364

The April 1, 1986 Board of Directors meeting at Pat Convery's came to order at 7:40 p.m.

Members present: Pat Convery, Sharon Bolle, Bob Stover, Jan Zak, Nancy Haas, Jane Poniatowski, Pat Templeton.

Civic committee present: Jack Poniatowski, Mike Wolanin

The minutes from the March meeting were read and approved.

The treasurer's report indicated \$347.15 on hand on March 5, 1986 and a current balance of \$138.06.

Committee agenda items reported on included fish stocking, new locks and keys to be issued around Labor Day, and a security report. In regard to fish, a motion was made and unanimously approved to purchase walleye. It was further decided that we would order 250 four to seven inch size fish. These mature in two to three years.

Nancy Haas read a letter sent to police departments last year. It was decided to re-issue this letter for 1986. Sackie Security will be employed from Memorial weekend to Labor Day weekend.

Regarding the greenbelt survey, Pat Convery recommended adding some additional posts and standardizing a set height for post placement. Bob Stover made a motion that we authorize Boss Engineering to a \$1,400.00 allotment rather than \$1,500.00 for their survey this year. The additional \$100 shall be used for posts. This was approved.

Specific restrictions for satellite dishes are available at either Township Office for those interested.

Work Bee duties will include replacement of West beach steps, a railing added at the North end, the Main Park dock being either repaired or removed, putting sand in the play area, checking the swings, and killing poison ivy if possible.

A park walk has been set for 9:00 a.m. on April 19.

In new business, notation was made of current vandalism. Also, a letter from the Highland Twp. treasurer was read announcing the employment of an additional sheriff to the Highland area. It was decided we would contact our local fire departments and ask what help we can be to them in assuring easy access in case of fires.

Neighborhood Watch signs are expected in soon. Plans were discussed to implement block captains.

The meeting adjourned at 9:55 p.m. The next meeting will be at Jane Poniatowski's, 901 Blue Heron, 887-1456 on May 6, at 7:30 p.m.

The May 6, 1986 Board of Directors meeting at Jane Poniatowski's came to order at 7:40 p.m.

Members present: Jane Poniatowski, Jon Springall, Sharon Bolle, Pat Convery, Bob Stover, Harry Hodge, Don Robins, and Pat Templeton.

Civic Committee present: Mike Wolanin and Jack Poniatowski.

The minutes from the April meeting were read. Pat Convery recommended the addition of this statement "The additional \$100 shall be used for posts" concerning the survey. The minutes were then approved.

Pat Templeton noted the planting of a pine tree in memory of Helen Van Wagoner at the Main park.

After some discussion, it was decided to form a committee to investigate insurance policies and decide whether or not to stay with our current insurance format.

The beach committee reported plans for putting in the rafts and cutting grass. Walleye's have been ordered for Fall fish stocking. A suggestion of a 50/50 raffle to supplement the fish stocking program was introduced. New keys are to be ordered soon. Jane Poniatowski will chair the Annual picnic. The date for this event is to be Sunday July 20.

Our contract with Sackie Security has been mailed. This is to include a schedule of guard placement and spot checks.

Pat Convery reported that Boss Engineering has completed our survey for this year. Pat passed out a list of greenbelt survey specifications, and the Board reviewed them. Its aim is to prevent further encroachments and to change any current encroachments to their natural state. Don Robins made a motion that posts go in on the corner of each lot line rather than on every angle and lot line as stated in the specifications. This was not seconded. Jane Poniatowski made a motion that the survey specifications be approved with posts being planted at every lot line and every angle but deleting the line of sight and 100 ft. post notions. This was seconded and approved. Bob Stover further made a motion to delete the statement "Easements shall also be marked with posts at the street side." This was seconded and approved. Pat Convery will order the additional posts needed and rent a post-hole digger for their placement.

With the resignation of Willis Leist from the board, a motion was made to appoint Gary Painter to fill the post. This was unanimously approved.

3091 Parkway Ct.
Milford, MI 48042
April 10, 1986

Jim Brady
Bill Bullard
Jack Poniatowski
Mike Wolanin
John York
Pat Convery (D.L.P.O.A.) ✓

Dear Sir:

I am concerned about the marking of our parkland boundaries using the 4x4 wooden posts. The placement of these posts lacked consistency and equal treatment to all lots. The previously placed, round wooden posts are rotting away, and should be removed and replaced with with the 4x4 posts. These new posts have a 30 year below ground life.

There are 6 engineering survey steel stake markers flush with the ground that were not marked with the 4x4 posts. The 1985 Board had stated that this project was finished, when in fact not all of the survey stakes had been marked with 4x4's.

Another method used in marking the boundaries, the line of sight method, was not consistently followed. In addition to the posts at the survey stakes, additional 4x4 posts were to be placed along the parkland boundaries, so that 2 posts are visable at all times. This was done on only one lot.

The maximum distance between two visable posts has not been resolved.

The 1986 Board should complete what the 1985 Board did not finish. As of April 6, 1986, the 1986 Board has not made a decision to finish the 1985 project of marking our parkland boundaries. As time goes by, it becomes increasingly difficult to find the engineering survey stakes that were paid to be located by a surveying company.

The Dunham Laker's paid to have the lots in the Donahue area surveyed, but because they were not marked with the 4x4 posts, we have to pay to have the lots surveyed again.

The Civic Committee should take positive action about this issue before we have to pay again for surveying fees that are not needed. When this issue is resolved, it will also help eliminate the lot owners complaints of why they have posts near their lots, and other lot owners do not.

If you feel that the 1985 project of marking the parkland boundaries should be completed, will you please inform the D.L.P.O.A. President that you support the completion of this project, and make a recommendation to how this should be done.

Sincerely,

Herbert Cole

Herbert Cole

April 3, 1986

Mr. Gary R. Boss, P.E.
Boss Engineering Company
3121 East Grand River Avenue
Howell, Michigan 48843

Dear Mr. Boss:

This is to confirm our conversation of Tuesday, April first.

The Dunham Lake Property Owners Association is authorizing Boss Engineering to continue surveying the Dunham Lake greenbelt this year. The survey should be resumed where it left off last year, at the south east corner of lot #11, Dunham Lake Estates Center.

\$1400 is authorized for the work this year. Boss Engineering should continue the survey within this budgetary constraint--please do not bill us for more than this amount, as our budget will not allow it.

As you know, the Association does not wish any brush cutting done, so it is to our advantage to have the survey done as soon as possible, before the vegetation on the greenbelt is fully leafed out. You indicated during our telephone conversation that work will begin by April 15th.

As I understand, stakes will be set at every lot line, at each access and to mark every change of angle.

Please keep me informed of the survey's progress. If you have any questions, please call me at 313-887-3644.

Thank you for Boss Engineering's continuing cooperation in this matter.

Sincerely,

Pat Convery
Survey Committee
3182 Briar Hill
Milford, MI 48042

4/11/86 9 am.
Gary Boss returned my call.

Hourly rates

Brian Boss has been doing work.
Registered surveyor. \$84 an hour for field time
and equipment \$50 + 34

~~Don't~~

For

Wants a letter for a go ahead.

Should start April 15th.

Final stakes set two weeks after

Completed at mid May at latest

Must send confirming letter

4/15/86

Sharon saw Boss on Plover surveying
yesterday. Called Boss to see if they've
gotten that far

March 31, 1986 9:40 called Gary Boss -- not in,
will return call.

Call Ron Willis re specs - where did we buy posts?
Do we have official results
draft specifications

Outrigger \$1400

Get in touch with Harland Fore Dept.
& Harland Turp. re signs on Parkway

Ron Willis

originally "within sight"

Highland Lumber 4x4 x 6 ft.

April 16, 1986.

Spoke to Gary Boss.

He said the ^{preliminary} surveying is done all the way
to Murray Hill. The computer double check
still has to be done. They actually did more work than
they can bill for, but since they had to locate the
points to double check the work before, they
figured they might as well mark them.

Meeting on March 28, 1986 with Herb Cole & Pott
Convery. Results: the following questions & recommendations

Who drove the ports last year?

Steel stake is at SE corner of 39 - no port - we paid for point

Should we have a port at every steel stake?

Poor quality, round port at line of 38 & 39 #4

~~We~~ provided tags last year. Herb puts 'em on

No port at 36 & 37. None at 35 & 36

Didn't put a stake on SW side of walkway (#12)

" " " " NE side of #4 walkway

Keep steel surveyor stakes #'s consecutive to avoid
changing numbers

Herb needs more one-way screws @ 5¢ a piece

18 ports driven last year - need 6 more - no more fees

#66 is going to be very unhappy
(septelaaaah pack last)

~~Herb can get steel~~ Steel rods don't

Should Boss put in the ports where the line bends

Ask Jeanne if Patterson owns hardware store? yes

Should we have specifications as to how we drive the
ports, how far apart, etc.

3.25.86

Pat Convery

HERB COLE & JOHN LEGRIS - WORKED ON THIS
PROJECT LAST YEAR.

BOSS ENGINEERING CO. HAS PLATT MAPS AND
DESCRIPTIONS INCLUDING AFFIDAVITS REGARDING DONOHUE
LAWSUIT SET.

THE ATTACHED IS ALL THE INFORMATION I HAVE
IF I CAN ASSIST YOU PLEASE CALL

F. Templeton
887-5648

Enclosed are selected pages copied from, " A Water Quality Study of Dunham Lake", from the Cromaine library.

There are six mentions of our our parkland which tells of the extreme importance for the preservation of this buffer land. The author assumes that we are keeping the parkland in a undisturbed, natural setting to absorb, and prevent undesirable nutrients from entering our lake.

The posting of the parkland will help perserve this buffer, which will result in maintaining the high water quality of our lake.

This posting will help prevent homeowners from misleading potential buyers about the distance of the lot to the lake.

Some other benefits of the posting are that when the Board makes its annual boundary line walk, they will know exactly how much encroachment has occured, also, when walking on the parkland, one will know where the homeowners lot line is to ensure he is not trespassing.

A DISCUSSION OF DUNHAM LAKE WATER QUALITY

Dunham Lake has a Lake Water Quality Index value of 92, which designates the water quality as excellent. The low phosphorus concentrations (8 micrograms per liter) classify the lake as oligotrophic. The excellent water quality of the lake is due to several factors.

● The most important factor for maintaining the high water quality of Dunham Lake in the future is the attitude of the residents. If they maintain their current level of concern and vigilance, no change in the lake water quality should be visible in their life-times.

The people who have lots fronting directly on the lake have a special interest in seeing that the lake remains as it is. They should not use lawn fertilizers containing phosphorus at any time. The septic tank tile fields should be located behind the houses, not between the house and the lake. As these systems need replacing, it is suggested that consideration be given to constructing community tile fields some distance from the lake which would serve several homes. Each house would have (and maintain) a septic tank and pump. The pump would pump the sewage through a pressure sewer line to a large tile field some distance from the lake. This is a fairly low-cost system which would provide adequate protection to Dunham lake.

If the lake-front lot owners fail to properly maintain their property to insure that the lake will be unaffected by their presence, water quality problems such as rooted aquatic plant growth will appear, first in front of their property.

Storm sewer outfalls should not be permitted to enter the lake without first being filtered through the soils. The present concern regarding the storm sewers of the Dunham Lake Estates is appropriate. Past experience has shown that those who design outfall structures have little knowledge of the effect the stormwater will have on the lake.

Lawn fertilizers containing phosphorus on the lawns of any of the houses surrounding the lake should not be used without first having the soil tested. The cooperative extension service provides this service for a very minimal fee. The Property Owners Association might collect information on soil phosphorus concentrations to show the range found at various lawn sites. The Dunham Lake Property Owners Association might also consider collecting information on the amount of lawn fertilizers applied by home owners around the lake each year, and whether they apply fertilizer in the spring or the fall, or both. The phosphorus concentration of the fertilizer should also be noted. This information would provide greater precision when calculating future nutrient budgets for Dunham Lake.

each person buys 80 pounds of lawn fertilizer in the spring at 4% phosphorus and 80 pounds of fertilizer in the fall at 20% phosphorus. Each home-owner who fertilizes his lawn uses about 20 pounds of phosphorus per year (4% X 80# + 20% X 80# = 19.2#) or 3260 pounds per year for the 163 houses. Assuming that half the phosphorus is taken up by the lawn, 1630 pounds could potentially be washed into the lake. The twenty lots which front directly on the lake could be a problem if the owners are not careful. They could add up to 400 pounds of phosphorus a year to the lake, if they all fertilize their lawns at the above rate, assuming the above calculations are correct.

PHOSPHORUS ADDITIONS FROM STORM WATER RUNOFF

Since the presence of the buffer strip absorbs most of the nutrients, little nutrient addition is expected from storm water runoff. The only exception would be the lots which front directly on the lake or improperly installed storm sewers.

SUMMARY OF POTENTIAL PHOSPHORUS ADDITIONS PER YEAR

Potential phosphorus input from septic tanks.....	3012 pounds
Phosphorus removed by septic tank pumping.....	-32 pounds
Potential input from lawn fertilizers.....	1630 pounds

POTENTIAL PHOSPHORUS INPUT FROM ABOVE SOURCES... 4610 pounds

As the above summary shows, 4610 pounds of phosphorus could enter the lake each year if the buffer strip was not present to remove these materials.

It is certainly valid to ask why one should be concerned if the phosphorus is effectively removed by the buffer strip.

The entire lake has less than 200 pounds of phosphorus, as a yearly average. If this concentration was to increase by a factor of 5, to 1000 pounds, the lake would have serious water quality problems. Thus it is imperative that nutrients be prevented from reaching the lake.

Not addressed here is the ability of the lake to precipitate phosphorus to the bottom sediments. This is because this mechanism should not be depended upon to remove phosphorus from human activities. It should be reserved for removing natural, uncontrollable additions which enter the lake.

● The buffer strip provides excellent protection for the lake. It filters, removes and absorbs nutrients from the lots which border the lake. The inclusion of the buffer strip between the lake and the subdivision by the developer was an extremely wise one. It is unfortunate that more lakes do not have this excellent form of protection.

● The high alkalinity of the lake, although it lowers the Lake Water Quality Index value a bit, provides valuable protection for the lake. The alkalinity, caused for the most part by calcium carbonate, will precipitate phosphorus which enters the lake. Phosphorus is absorbed to the calcium carbonate, which is then precipitated to the bottom sediments in the presence of a high pH, which Dunham Lake also has. This ability to precipitate phosphorus should not be viewed as a reason for permitting additional phosphorus to reach the lake. Instead, it should be considered a natural phenomena which will help maintain the high quality of the lake by removing phosphorus which inadvertently reaches it.

As an additional note, the high alkalinity of the lake, which causes it to be classified as a hard-water lake, is a poor source of water for hair-washing. The excessive hardness (calcium and magnesium ions) causes the same scum that forms in the bath tub or sink to be deposited on the hair shafts. This could cause a dullness of the hair which some feel is undesirable. It is much better to use home-softened water for hair-washing activities.

● The large water volume of Dunham Lake provides additional protection. Generally, the larger the water volume, the easier it is to maintain high lake water quality.

● The small drainage area of Dunham Lake, probably less than one square mile, prevents large amounts of stormwater from being generated which might enter the lake. If the drainage area was larger, the flow of stormwater would be greater, and more nutrients would be carried into the lake during rain events where the water flowed over-land (called sheet-flow) and directly into the lake. Special consideration should be given to preventing storm water from existing or future developments from reaching the lake.

● The high sand and gravel hills which surround the lake provide a natural filter which removes most nutrients from the stormwater before it enters the lake. The flow from the foot of these hills is visible in many spots on the path which borders the lake. These marshy areas are an expression of the filtered stormwater which is entering the lake. Again, the stormwater from present and future development should not be permitted to discharge into the lake without first having been filtered by the soils surrounding the lake.

REQUIREMENTS OF THE STUDY

Initially, the study was to consist of a water quality survey involving ten surface sites, utilizing the nine parameters in the Lake Water Quality Index (Fusilier, 1982). A spring series of samples was to be collected by Mike Wolanin to determine in-lake phosphorus concentrations during turn-over. A late-summer sampling run was to be conducted by Water Quality Investigators and data on all nine of the Lake Water Quality Index parameters were to be collected.

ADDITIONS TO THE STUDY

As the study progressed, it was found that a bottom contour map did not exist. Without the lake volume measurement, it would not be possible to determine a nutrient budget, therefore a hydrographic map of the lake needed to be developed.

A nutrient budget needed to be developed to show the beneficial effect of the buffer strip on maintaining the high quality of the lake and to point out problem areas which should be considered.

Since the lake was deep, WQI scientists decided to do a profile at the 125-foot deep site involving temperature and dissolved oxygen during the fall sampling period to detect the presence, depth, and thickness of the thermocline, and to detect deep-water oxygen depletion, if present.

Samples of bottom sediments needed to be taken at all ten stations and the percentage of mineral in the sediments determined.

A study of soil-types around the lake needed to be conducted using available Soil Conservation Service data.

Maps needed to be developed which identified bottom contours, sampling stations, and soil-types around the lake.

A bibliography needed to be developed which included important references about Dunham Lake.

It was felt that a survey of historical information at the Institute of Fisheries Research, the University of Michigan, would provide additional useful information.

A THEORETICAL NUTRIENT BUDGET

Calculating a theoretical nutrient budget can help lake residents understand the sources, sinks, pathways and amounts of nutrients which cause unwanted plant conditions in their lake. Although nitrogen and phosphorus are both nutrients, phosphorus, more than any other element, has been identified as the key element for triggering plant growth. This is because it is relatively scarce in the environment, and because it is the one nutrient which man can control. Nitrogen is less often considered in nutrient budget calculations because it can be fixed in the environment by a variety of mechanisms, such as lightning and/or bacteria. Thus it is pretty much uncontrollable.

Currently, most people involved in lake management feel that if the amount of phosphorus in a lake could be reduced or maintained at a low level, lake water quality problems would be less.

A NUTRIENT BUDGET FOR DUNHAM LAKE

The following is a theoretical nutrient budget for Dunham Lake. Two sampling runs were made on the lake, one in early May to detect possible high phosphorus concentrations which may occur in a lake during spring turn-over, and one in September to detect high chlorophyll a concentrations, low or high dissolved oxygen concentrations, shallow Secchi disk transparencies, shifts in pH and changes in alkalinity.

The following assumptions are being made when calculating the nutrient budget for Dunham Lake. The information, although based on a series of assumptions, will show in a general way, how much phosphorus which is generated by septic tanks and lawn fertilizing, and why the greenbelt is so effective in maintaining the high quality of Dunham Lake.

- The flow into the lake equals the outflow.
- The laboratory test results were representative of the concentrations of nutrients for a six month period.
- All lake lots are 1 acre lots, and 50% of each lot is lawn. (Larger lots would add more nutrients per residence.)
- The volume of the lake remained constant throughout the year.
- Phosphorus is the limiting nutrient.
- The mean residency rate was 3 persons per household.

The following data (and sources) were used in the nutrient

nutrients which enter the lake will remain there for a long time.

Using the outlet phosphorus concentration of 8 ug/l, and the yearly discharge of 1.3 billion pounds of water, only 10.4 pounds of phosphorus is discharged from the lake through the outlet each year.

PHOSPHORUS FROM SEPTIC TANKS

Although the buffer strip, where it is present, prevents most nutrients from entering the lake, this discussion is included to show its effectiveness in controlling undesirable nutrient discharges to the lake.

Using the EPA figures of 23 milligrams of phosphorus per liter, an average water usage of 136.8 gallons per day per household (45.6 gallons per capita per day X 3 people per household), and 325 households with septic tank effluents discharging into the soils surrounding the lake, it is calculated that 3012 pounds of phosphorus per year is released into the soils surrounding Dunham lake. Soils have quite an ability to absorb phosphorus, but eventually all soils become saturated. The lots which front directly on the lake could introduce up to 185 pounds of phosphorus a year into the lake from their septic tank effluents when the soils become saturated, and if the tile fields are located near the lake.

Assuming that septic tanks are pumped once every ten years, that the tanks are 1000 gallon tanks, that the tank is half full of sludge (500 gallons) when it is pumped, and the concentration of phosphorus in the sludge is 232 milligrams per liter, less than one pound of phosphorus is removed with the septic tank sludge when the tank is pumped once in a ten year period. The figures show that regular pumping of the septic tank is not a very feasible method of removing phosphorus from the lake watershed. If all 325 tanks are pumped once every ten years, less than 32 pounds of phosphorus per year will be removed from the lake watershed.

PHOSPHORUS ADDITIONS FROM LAWN FERTILIZERS

The 163 houses (50% of 325) that are assumed to use lawn fertilizer at a commonly applied rate, 40 pounds of phosphorus per acre per year, will now be considered. As stated above it is assumed that the lots are one acre in size, that half the lot is lawn, and that a spring and a fall fertilizer application is made each year. (A local nurseryman reports he sells almost as much lawn fertilizer in the fall as he does in the spring, but the fall fertilizer has a much higher phosphorus concentration.) Mean spring fertilizer phosphorus concentration is 4%, while mean fall fertilizer phosphorus concentration is 20%. Most fertilizer is sold in 40 pound bags that cover 10,000 square feet. Thus

December 26, 1987

Mr. Lawson Bass
1000 Murray Hill
Highland, MI 48031

Milford

Dear Mr. Bass:

The Dunham Lake Property Owner's Association has a rule that has gone into effect this year, requiring all privately owned boats be removed from the greenbelt and park areas by November 15, not to be returned until ice-out in the spring. If boats are not removed, the property owner is assessed an additional \$50, payable with his dues.

Upon inspection of the greenbelt and park late last month, a yellow Super Porpoise with your lot number 084, was discovered stored at the main park by the shoreline.

Since this is a new rule, we are notifying you and asking that you remove the boat by January 3, 1988 and we will be happy to waive the additional assessment. If this is not your boat, please notify me at once and I will arrange for it to be removed during our spring work bee.

You can reach me by telephone at 887-9074, or by mail at the address above. Thank you for your cooperation in this matter and best wishes for a happy new year.

Sincerely,

Don Robins
Presiden

Dunham Lake Property Owners' Association

P.O. BOX 393

HIGHLAND, MICHIGAN 48031

August 27, 1987

Mr. Michael Crain
Road Commissioner, Livingston County
918 North Street
Howell, Michigan 48823

Dear Commissioner,

The Board of Directors of the Dunham Lake Property Owners Association (DLPOA) is very concerned about stormwater from the Dunham Road-Parkway Court area draining into Dunham Lake. Dunham Lake is a unique natural resource which must be protected.

A stormsewer, provided by your department, was installed on Lot 11 by the property owner. Surface water now runs directly into Dunham Lake. We contacted Dr. Fusilier of Water Quality Investigators to make recommendations regarding improvements that could be made to eliminate or minimize the impact of stormwater on the water quality of Dunham Lake.

Ideally, we would like the stormsewer removed. However, if that is not possible, we would like the Livingston County Road Commission to install the rock stormwater infiltration structure as recommended in Dr. Fusilier's report (attached).

I would like to meet with you or your representative to review the problem area. Our goal is to have the necessary modifications made as soon as possible. Please note the final paragraph of Dr. Fusilier's report. If the amount of phosphorus in the lake is allowed to increase from eight parts per billion to forty parts per billion, Dunham Lake would have serious water quality problems. Thus it is important that every effort be made to prevent phosphorus and other nutrients from reaching the lake.

I look forward to hearing from you or your representative. I can be reached during the day at 313-680-5441 or by mail at 3206 Briarhill, Milford, MI 48042.

Sincerely,



Donald A. Robins
President, DLPOA

DR/jr

att.

cc: County Commissioners
W. E. Fusilier, PhD
J. Poniatowski, President DLPOA Civic Committee
W. Bullard, State Representative
M. Hickox, Attorney

Dunham Lake Property Owners' Association

P.O. BOX 393

HIGHLAND, MICHIGAN 48031

April 7, 1987

Dear Dunham Lake Property Owner:

The greenbelt survey on the Oakland side of Dunham Lake has recently been completed except for a small section between the main park and the east beach. The greenbelt has been marked with wooden stakes and red ribbon. In the near future, 4" x 4" numbered posts will be placed one foot into the greenbelt, enabling everyone to recognize where the park ends and the lot owner's property begins. These numbered posts will be identical to those put into place on the Livingston side.

The survey has identified a number of areas where the greenbelt has been encroached, resulting in damage to the vegetation and forest in the park. Now that the lot lines are clearly identified, the Board of Directors reminds all lot owners that no mowing, cutting, or alterations to the greenbelt are permitted.

The reforestation program, that was strongly supported by those who attended our Annual Meeting in January, will start this year on the Livingston side of the lake. Our plan is to start on the Oakland side next year.

The Department of Natural Resources has agreed to assist us in determining what types of trees, groundcover, and plant material should be planted in the affected areas. If you would like to assist in this project, please contact Pat Convery (887-3644), Chairperson of the Committee.

Our investment in our park will reap us benefits in the future.

Sincerely,

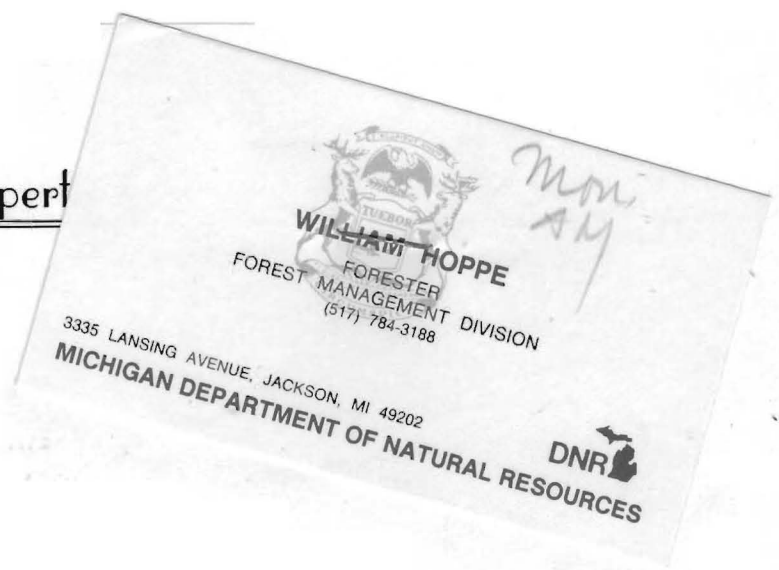


Donald A. Robins
President, D.L.P.O.A.

Dunham Lake Property

P.O. BOX 393

February 26, 1987



Dear Dunham Lake Property Owner:

In July 1986, the green belt survey on the Livingston side of Dunham Lake was completed. Each survey stake was marked with a 4"x 4" numbered post placed one foot into the greenbelt enabling everyone to recognize where the park ends and the lot owner's property begins.

The survey identified a number of areas where the green belt has been encroached resulting in damage to the vegetation and forest in the park. After the lot lines were identified many property owners took steps to end the encroachment, and your cooperation is appreciated by all.

Because of the large areas affected by the encroachment, the Board of Directors proposed that a reforestation program be started during 1987. The proposal was strongly supported by those lot owners who attended our annual meeting in January, and the 1987 budget includes \$ 1,000.00 for the reforestation program.

The Department of Natural Resources has agreed to come out and assist us in determining what types of trees, groundcover, and plant material should be planted in the affected areas. If you would like to assist in the project, please contact Pat Convery, 887-3644, chairperson of the committee. The planting is scheduled to start this Spring.

Our unique park needs our committment, and the Board of Directors reminds all lot owners that no mowing, cutting, or alterations to the greenbelt are permitted. Our investment in our park will reap us benefits in the future.

Sincerely,

Donald A. Robins
President, D.L.P.O.A

May 15, 1987

Dear DLPOA Member:

As a property owner along the Dunham Lake greenbelt, you know that for the past two years the DLPOA has authorized Boss Engineering to conduct a Green Belt Survey here at Dunham Lake. When completed, this program will mean that the entire border of our valuable greenbelt will be marked with 4x4 posts to indicate where private property ends and our parkland begins. To date, the survey has been completed on both Oakland and Livingston County sides of the lake, with the exception of a few lots by the east beach, which will be finished next year. Your lot has been completed.

Every surveyor's stake has been marked with a 4x4 post. These posts are not set on property lines, but rather one foot into the greenbelt itself.

All of us at Dunham Lake are aware of how important our greenbelt is in keeping fertilizer, septic wastes and erosion from our lake. In the water survey conducted two years ago, it was stated time and again how important this buffer strip is to the integrity of the lake. We have only to look at the weeds and algae of other area lakes to appreciate the crystal clear beauty of Dunham.

Additionally, of course, the green belt allows all residents to access the lake and enjoy its recreational benefits.

As a property owner, it may have been difficult in the past for you to determine where your property ends and the greenbelt begins. Now that the posts are in place, kindly refrain from lawn mowing, brush cutting, or tree trimming past your property line. We also ask that you remove any private property, such as firewood piles, play equipment and structures you may have placed on the greenbelt. In addition, landscape features such as retaining walls, fences, patios or stone paths built on the greenbelt need to be taken down. In time, many areas inadvertently mown or cut will return to their natural state. In some cases, the board will continue its reforestation program in those areas severely damaged.

Thank you for your cooperation. If you have any questions on this matter, please call me at 887-9074. Have a pleasant summer.

Sincerely,



Don Robins
President
Dunham Lake Property Owners Association

Additionally, of course, the green belt allows all residents to access the lake and enjoy its recreational benefits.

WALK WITH
PAT CONVENT OF
06 APR 87

BRICK AUTO

1243

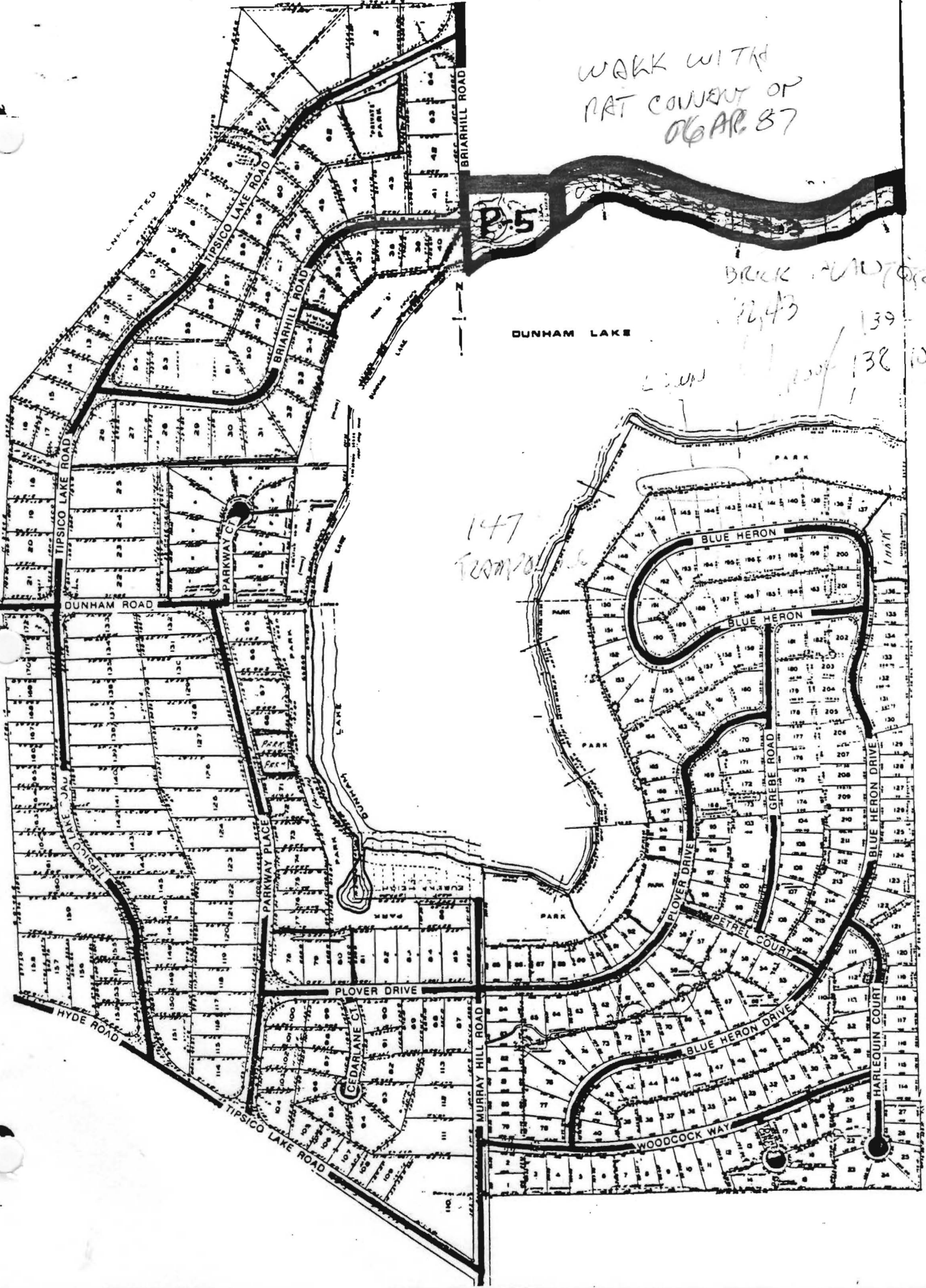
139

138

147
TRAMP

DUNHAM LAKE

P-5



I

517-
546-4836

March 10, 1987

Mr. Steve Morgan
Boss Engineering
3121 E. Grand River
Howell, MI 48843

Dear Steve:

This is to confirm our telephone conversation of last week.

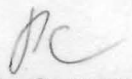
The Dunham Lake Property Owner's Association is hiring Boss Engineering to continue surveying our greenbelt in 1987. We have budgeted \$1300 for the work this year.

Please continue the survey on the Oakland County line, where you left off last year. As you know, we do not wish any brush cut, so it will be necessary for the work to be done before everything "leafs out" in the Spring. Please make sure there is a surveyor's stake at every lot line and angle change.

I would appreciate being informed when the work is to be done as much in advance as possible so I can arrange to have our 4X4 posts put in immediately after your work is completed.

Thank you for your continued hard work in this regard.

Sincerely,


Pat Convery
Chairman
Greenbelt Committee
313-887-364

INFO for Surveying season

STILL TO DO

LOTS 0 89, 90, 91, 92, 93

Marker at extreme north end at
Oakland side by Lake to indicate start
of quadrant.

Extra stake at foot of ^{old} "Dunkham Road."

Surveying of park/swamp on T. psico.

WHO DOES IT

Boss Engineering

Howell 517-546-4836

Steve Morgan

WHEN

IN Spring, preferably before leaf-out.
Order it in late Feb, early March --
confirm with letter giving budget.

POSTS

4x4x12 foot posts - cut in half. #115.32 (8-4:00 p.m.)
We paid \$8.40 ea from Highland Lumber,
\$3.00 to rent all of them, 887-4186
They are 30 year belowgrade well-managed.
See add'l specs on sheet.
See Pat for angle iron.
Rent power auger to drill holes.

vinea minor 500 @ 6-12" [↓] 6-7 feet high

myrtle Bows variety
large flower
fragrant

\$700

\$24 for 48
from
Jack Webber

viburnum Lantana

clusters of red berries
15 feet hi - 4 feet wide
shade - sun

18 each

viburnum mariesii

8-10ft
purple leaf in
fall

\$18 each

honeysuckle - Hechroth

climber
24" high
buds love it

\$18 each

sun
will grow 60' across on ground

Evergreen

hemlock
3 or 4 in a group
24" high

\$7 a piece

shady
hilly, slopy area

old fashioned roses

pink &
whites

\$16 each

sun to partial shade

what about white junes 3-4 ft.

Choke - red berries 6-7 feet high
deciduous tree \$45 each

Rhododendron pink & lavender
white \$24 each

Norway Spruce liners
transplanted at least 3 times 95¢ each

6-12 inches
maximal roots 3-4 feet

1 foot - 30 inches
in second year

Burning bush fall colors \$16
18"

River birch borer resistant \$25
creamy bark
well guaranteed them
4-6 feet
shade or sun

Serviceberry - 15-20 feet mature feet
strong in plums \$18
flowers in spray
berries
24-30 inches
6 foot spread

Beech - River purple *Fagus riversii*
red-purple foliage
rare in state 4-5 feet \$45 each

Autumn olive 2 foot \$5-7
don't overdo - clusters of
6 feet apart 3-4

Saleys red twig dogwood
arching

variegated

brilliant red stems

\$16 each

524 for 48
from
Gardner

3 1/4" Excludes-SCOPE
12 1/2" 1 1/2" Box grade
3 1/4" Excludes-SCOPE

BRICKS BACK

\$10.12 - Thornton

\$9 - Thornton

3-4 feet

16 feet apart for open planting
nice to walk through

EXLINDER SECTIONS
EXLINDER SECTION 15" \$220.00
EXLINDER SECTION 18" \$210.00
EXLINDER SECTION 18" \$220.00

EXLINDER SECTIONS
EXLINDER SECTION 15" \$220.00
EXLINDER SECTION 18" \$210.00
EXLINDER SECTION 18" \$220.00

EXLINDER SECTIONS
EXLINDER SECTION 33" \$1210.00
EXLINDER SECTION 12" \$1232.00

EXLINDER SECTIONS
EXLINDER SECTION 42" \$382.00
EXLINDER SECTION 50" \$1380.00

Model 3500
3 1/8" diameter extends-scope

Model 3500
3 1/4" diameter extends-scope

INSPECT DEFECTS BY 10 20 FEET UNVA!
REM EXLINDERABLE BONESCOPE FROM OLYMPIUS

EXLINDER-SCOPE

what about white juncos 3-4 ft

OLYMPIUS

Jack Walker 887-2515

Forester recommends:

Crown Vetch

Silky dogwood } native
dogwood }
passiflora }
bittersweet }

3/4 of acre
900 trees
at 6x6

mulch area

Bailey

myrtle - 500 plants - 1 every 3 sq. ft.

juniper - hemlock

1 dog spruce

~~maybe bittersweet~~

Hulings

Honeysuckle & spruce

nature will plant hardwoods

25 H & spruce

Donahue

honeysuckle - 12

or
S. Dogwood

Palma - negotiate

autumn olive

Silky dogwood

over dogwood

} Spruce would kill view
} 25 each

maybe honeysuckle

+ wendell packlet

Bailey

500 myrtle

6 day spruce

5 bales of hay

#200.00

6.00

20.00

6 hemlock instead of spruce

42.00

268.00

Huling

25 Norway Spruce

liners

4 red twig dogwood

55 honeysuckle seedlings

~~4 heart pines~~

5.00

~~28.00~~

94.00

Donahue

6 spruce trees

6.00

~~#~~ honeysuckle

5.00

11.00

Bay

6 Serviceberry @ 10

60.00
54.00

12 autumn olive @ 7

84.00

12 red twig @ 9.00

108.00

~~2 roses~~

32.00

25 silv dogwood

5.00

25 honeysuckle from Donahue

283.00

REFORESTATION & TREE PROGRAM

FENTON, NORTHWEST AND SOUTH LIVINGSTON SOIL CONSERVATION DISTRICTS
3477 E. Grand River Ave., Howell, MI. 48843 517-548-1553

This order form is for your convenience in ordering trees for Spring 1987 through the Districts' "Reforestation & Tree Program". Deadline for ordering trees is March 13, 1987. No order will be accepted for less than 100 trees or plants. You will be notified by Post Card the date and place of pickup in April. Tree inventories are limited, orders will be on a first-come, first-served basis. We reserve the right to cancel orders and refund payment if necessitated by conditions beyond our control. Please indicate the number desired in the NUMBER column and complete the information as requested. (2-0 is a 2 year seedling).

Please make your check payable to FENTON S.C.D. Sales Tax is included in price!

The District Directors "THANK YOU" for your order and for working to conserve our precious soils.

SPECIE	SIZE	NUMBER	25	50	100	250	500	1000
WHITE PINE	2-0		6.00	10.00	17.00	40.00	75.00	140.00
RED PINE	2-0		6.00	10.00	17.00	40.00	75.00	140.00
SCOTCH PINE	2-0		7.00	11.00	19.00	45.00	75.00	140.00
AUSTRIAN PINE	2-0		7.00	11.00	19.00	45.00	75.00	140.00
PONDEROSA PINE	2-0		7.00	11.00	19.00	45.00	75.00	140.00
COLORADO BLUE SPRUCE	2-0	3	8.00	12.00	22.00	48.00	90.00	160.00
BLACK HILLS SPRUCE	4-0	4	8.00	12.00	22.00	48.00	90.00	160.00
NORWAY SPRUCE	2-0	1	7.00	11.00	19.00	45.00	75.00	140.00
WHITE SPRUCE	2-0	2	7.00	11.00	19.00	45.00	75.00	140.00
DOUGLAS FIR	6-12"		7.00	11.00	19.00	45.00	75.00	140.00
EVERGREEN PACKETS			18.00	10 plants each of White, Red, Scotch & Austrian Pine, Blue Spruce, White & Norway Spruce.				
70 plants			each					
WILDLIFE PACKET			20.00	10 each of Blue Spruce, Scotch Pine, & Silky Dogwood, 25 Autumn Olive, 5 Russian Olive, 3 Roselow Crab & 5 Honeysuckle plants. (68 plants).				
68 plants			each					
WINDBREAK PACKET			22.00	10-4 year old Norway Spruce 16-24" 10 3 year Austrian Pine 12" & 25 Autumn Olive (for 100 ft. of Windbreak.)				
30 plants								
CARPATHIAN WALNUT PACKET			22.00	2 trees in each packet, needed for pollination, 4-5 foot trees.				
BUTTERNUT TREES			3.00	5 butternut trees per packet				
HARDWOODS				25	50	100		
BLACK WALNUT	12-18"		8.00	14.00	25.00			
W WHITE ASH	12-18"		8.00	14.00	25.00			
LS RED MAPLE	12-18"		8.00	14.00	25.00			
S SUGAR MAPLE	12-18"		8.00	14.00	25.00	Name		
TULIP TREES	12-18"		8.00	14.00	25.00			
THORNLESS HONEYLOCUST	"		8.00	14.00	25.00			
PIN OAK	Sdlg.		12.00	22.00	40.00	Street		
LS RED OAK	Sdlg.		12.00	22.00	40.00			
HYBRID						City		
CAROLINA POPLAR	12-24"		12.00	22.00	40.00			
WILDLIFE TREES & SHRUBS						Zip		
E AUTUMN OLIVE	Sdlg.		5.00	9.00	17.00			
HONEYSUCKLE	Sdlg.	50	5.00	9.00	17.00			
N SILKY DOGWOOD	Sdlg.	25	5.00	9.00	17.00			
EUROPEAN LARCH	Sdlg.		7.00	13.00	24.00	PHONE		
RUSSIAN OLIVE	Sdlg.		8.00	14.00	25.00	Township where trees will be planted:		
E EUROPEAN MOUNTAIN ASH	Sdlg.		10.00	18.00	35.00			
WHITE BIRCH(PAPER)	Sdlg.		10.00	18.00	35.00			
N WHITE FLOWERING DOGWOOD	Sdgl.		10.00	18.00	35.00			
N SASSAPRAS	12-18"		10.00	18.00	35.00			
N BITTERSWEET VINES	Sdlg.		10.00	xxx	xxx	TOTAL AMOUNT ENCLOSED:		
			25	50	100	250	500	1000
GROUND COVER-CROWN VETCH, Sdlg.			5.50	10.00	18.00	42.00	80.00	125.00
RED FLAG MARKERS (36 inches)			9.00 per hundred (3x5 inch Red Flag Markers:)	.10 each - (9.00 per 100 or 0.10 each flag.)				
TREE PLANTING BAR			\$25.00 each					

*slowest
thickest
fastest*

12

PLANTING GUIDE FOR TREES AND SHRUBS.....

SPECIE	SITE PREFERENCE
White and Red Pine	Well drained sandy to clay soils, full sun to light shade
Scotch Pine	Well drained sandy to clay soils, full sun
Austrian Pine	Well drained sandy to clay soils, full sun to light shade Salt tolerant, may be grown along highways
Blue, Norway & White Spruce	Well drained sandy loam to clay soils. Full sunlight to light shade.
Douglas Fir	Well drained sandy to clay soils, full sun to dense shade, NO needs wind protection, north or east slope is best, out of wind.
Black Walnut	Well drained sandy to clay soils, full sun to light shade
Carpathian Walnut	Well drained sandy to clay soils, slight slope for air drainage Young trees may be wrapped for winter protection from frost damage.
Thornless Honeylocust*	Adapts to most soil types, full sunlight.
Mountain Ash	Well drained sandy loam to clay soils, full sun.
Red & Sugar * Maple	Well drained Adapts to most soils in our county. Full sun, light to medium shade.
Tulip Tree *	Well drained, sandy to wet clay, full sun to light shade. Tulip Trees and Black Walnut do very well being planted together.
Sassafras	Well drained, sandy to wet clay & loams. full sunlight to light shade.
Carolina Poplar*	Mineral to muck soils, keep away from tile lines and septic fields, very fast growing - 6 to 8 ft per year.
White Ash*	Well drained to moist soils, full sun to light shade
White Birch	Well drained to moist soils, full sun to light shade.
Oak, Red, White Larch	Well drained soils, full sun Well drained to very moist soils, full sun to light shade
Autumn Olive	Well drained to moist soils, full sun to light shade. An excellent wildlife food and cover. Has light red berry in fall.
Russian Olive	Grows on a variety of soils, full sun to light shade, is good for wildlife food and makes an attractive tree in windbreaks
Silky Dogwood	Most soils, wet to dry, will tolerate shade, excellent wildlife shrub. Has purple berry in fall.
CROWN VETCH Ground Cover	Most any neutral soil, or alkaline soil, well drained. Full sun to light shade. Flowers in June, July & August. Excellent for protecting banks from erosion. Eliminates mowing in odd places and on steep banks and hillsides.

* Fast growing hardwoods that are good for firewood

Other items available at the District Office are: Animal Alert Warning devices for alerting animals of on coming vehicles, Topographic Maps, Tree Identification Books, Tree & Wood Measuring Sticks & Red Flag Markers, 36 inches long with a 3X5" Red Flag.



FENTON, NORTHWEST & SOUTH LIVINGSTON
SOIL CONSERVATION DISTRICTS
3477 E. Grand River Ave.
HOWELL, MI. 48843

BULK RATE PERMIT # 118
NON-PROFIT ORGANIZATION
HOWELL, MICHIGAN 48843



TREE ORDER BLANK

887-8502

1987 Survey

Boss completed work by
April 3.

30 posts to be put in

6 still not surveyed around East beach

887-4186 - Highland Lumber

\$8.40 for 4x4x12 foot post. \$3 to cut all of them

8.40

15.

4200

840

12600

3.00 cutting

129.00

April 25 - put in posts

volunteers

Herb

Pat

Bob B.

Sharon

Joe

Dick Schwaab

Mark Shear

Easter Week - put in plants

RESULTS OF ANNUAL MEETING - JAN 87

RESULTS OF SURVEY TAKEN AT 1987 ANNUAL MEETING

QUESTIONNAIRE

REGARDING PROPOSED 5 YEAR BUDGET PLAN DUNHAM LAKE PROPERTY OWNERS ASSOCIATION

For planning purposes, and assistance to the Board of Directors, we would like your comments regarding the following questions:

	<u>YES</u>	<u>NO</u>
1. I support using a significant portion of the Annual Budget for security guard service in park area and subdivision	<u>14</u> 26	<u>7</u> 6
2. I support the completion of the greenbelt survey (Livingston side is done, Oakland side should be done by end of 1988)	<u>21</u> 29	<u>1</u> 3
3. I support the reforestation of the greenbelt, especially in the areas of encroachment	<u>19</u> 27	<u>2</u> 4
4. I support the conducting of a water quality survey every 5 years (next survey would be in 1989)	<u>18</u> 28	<u>4</u> 3
5. I support the continuation of a fish stocking program and a fish survey every 3 years	<u>17</u> 22	<u>4</u> 9
6. I would support a dues increase (no more than \$10/year) to provide additional funds for major park improvements, such as:		
o New playground equipment	<u>7</u> 28	<u>14</u> 2
o New picnic tables	<u>12</u> 20	<u>9</u> 12
o Park benches along pathways	<u>2</u> 14	<u>18</u> 17
o Picnic shelter with BBQ at main park	<u>4</u> 14	<u>16</u> 18
o Tennis court		
o Improve appearance of entrances to subdivision (signs, trees, shrubs, etc.)	<u>5</u> 18	<u>17</u> 14
o Added security in park and subdivision	<u>9</u> 24	<u>12</u> 6
7. Would you support a \$50/year dues increase over the next 5 years (dues in 1991 would be \$100/year) to accomplish any of the above objectives	<u>6</u> 17	<u>16</u> 15

Use other side of sheet to add any additional comments you may have regarding a 5 year plan.

PLEASE RETURN YOUR QUESTIONNAIRE TO DON ROBINS, 3206 BRIARHILL

*penicil numbers are
dunham lake results*

D.L.P.O.A. COMMITTEE PROJECTS (1987)

SECURITY COMM.

1. INVESTIGATE INCREASED USE OF LIGHTING TO DETER PROBLEMS
2. SECURE TWP. ORDINANCE FOR NO-PARKING AREAS
3. INVESTIGATE LEGALITY OF ENFORCING TRESSPASS AFTER PARK CLOSING
4. PROFESSIONAL SURVEY OF POTENTIAL SECURITY OPTIONS
5. ESTABLISH COMM. FOR NIGHT LOCKS ON PARK GATES
6. SELECT GUARD SERVICE-OBTAIN CONTRACT-SET DATES AND TIMES

*repair
lock mgate*

BEACH COMM.

1. INVESTIGATE USE OF NEW PORT-A-JOHN COMPANY
2. ESTABLISH AREAS TO BE CUT-PREPARE CONTRACT-LET BIDS
3. REPAIR SLIDE
4. INVESTIGATE REPLACEMENT OF ONE WOOD RAFT
5. IMPLEMENT BOAT REMOVAL PROGRAM IN NOV. 1987

FISH COMM.

1. FISH SURVEY
2. ~~WATER QUALITY SURVEY~~
3. INVESTIGATE DONATIONS OR LOTTERY TO SUPPORT STOCKING PROGRAM
4. STOCK FISH

NEWSLETTER COMM.

1. DESIGNATE BOARD MEMBER TO COORDINATE WITH PUBLISHER
2. ESTABLISH COMM. REPORTS IN NEWSLETTER
3. INCREASE USE OF MEDIA TO IMPROVE AWARENESS OF MEMBERSHIP

SURVEY COMM.

1. BEGIN SURVEY ON OAKLAND COUNTY SIDE
2. MONITOR ENCROACHMENTS ON LIVINGSTON COUNTY SIDE INCLUDING POSTS AND NEW PLANTINGS

SPECIAL PROJECTS COMM.

1. REFORESTATION OF GREENBELT
2. SAND AT EAST AND WEST BEACH
3. PURCHASE OF NEW PLAY EQUIPMENT AND TABLES (REMOVE DAMAGED OR DECAYED OLD EQUIPMENT)
4. INSTALL NEW BRIDGE
5. SPRING AND FALL WORK-BEE
6. ANNUAL PICNIC

PROPOSED 5 YEAR BUDGET
DUNHAM LAKE PROPERTY OWNERS ASSOCIATION

	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>
PARK SERVICES					
Security Guard Service	7,000	7,700	8,400	9,200	10,000
Park & West Beach Lighting	400	440	480	530	580
Fish Stocking	1,200	2,000	2,000	1,100	2,000
Porta-John Rental	600	630	660	690	720
Trash Disposal	300	330	360	390	420
Annual Picnic Subsidy	<u>250</u>	<u>250</u>	<u>250</u>	<u>250</u>	<u>250</u>
Subtotal	9,750	11,350	12,150	12,160	13,970
ADMINISTRATIVE					
Office Supplies	50	50	50	50	50
Bank Charges	75	75	75	75	75
Liability Insurance	750	1,000	1,250	1,500	1,750
Corp Fee & Memberships	150	150	150	150	150
Postage	500	520	540	560	580
Association Printing	200	210	220	230	240
Dues Accounting & Sec Fees	250	250	250	250	250
Newsletter Printing	700	750	800	850	900
Contingency Fund	<u>1,000</u>	<u>1,000</u>	<u>1,000</u>	<u>1,000</u>	<u>1,000</u>
Subtotal	3,675	4,005	4,335	4,665	4,995
PARK MAINTENANCE					
Park & Beach Cleanup	675	700	725	750	775
Contracted Grass Cuttings	1,250	1,300	1,350	1,400	1,450
Workbee & Gen Maintenance	<u>1,200</u>	<u>1,250</u>	<u>1,300</u>	<u>1,350</u>	<u>1,400</u>
Subtotal	3,125	3,250	3,375	3,500	3,625
SPECIAL PROJECTS					
Reforestation Greenbelt	1,000	1,000	1,000	1,000	0
East & West Beach Sand	500	500	500	500	500
Greenbelt Survey	1,500	1,500	0	0	0
Children's Play Equipment	1,500	1,500	1,500	1,500	1,500
Picnic Tables	500	500	500	500	500
New Bridge (East Beach)	400	0	0	0	0
Fish Survey (Every 3 Years)	800	0	0	900	0
Water Quality Survey (Every 5 Years)	<u>0</u>	<u>0</u>	<u>1,000</u>	<u>0</u>	<u>0</u>
Subtotal	6,200	5,000	4,500	4,400	2,500
TOTAL BUDGET	<u>\$22,750</u>	<u>\$23,605</u>	<u>\$24,360</u>	<u>\$24,725</u>	<u>\$25,090</u>

NOTE: 1987 Budget based on dues of \$55/year, a \$10 increase in dues would provide an additional \$3,600 per year.

MAJOR DIFFERENCES BETWEEN 1986 AND 1987
DUNHAM LAKE PROPERTY OWNERS ASSOCIATION BUDGETS

1987 ADDITIONS

o Increased Security	Additional	2,000
o Fish Stocking	Additional	600
o Fish Survey (Last survey was 1979)		800
o Start Reforesting Greenbelt		1,000
o New Children's Play Equipment		1,500
o New Picnic Tables		500
o New Bridge		400
o Newsletter	Additional	250
o Workbee/General Maintenance	Additional	500
o Contingency Fund		<u>1,000</u>
Subtotal		8,550

1987 REDUCTIONS

o Liability Insurance (New policy, lower rates)		(1,100)
o Gate, Fence, Lock Expense (Work completed)		(1,300)
o Beach Sand (Still leaves \$500 in 1987 Budget)		<u>(500)</u>
Subtotal		<u>(2,900)</u>
NET CHANGE		<u>\$ 5,650</u>

1987 PROPOSED BUDGET
 DUNHAM LAKE PROPERTY
 OWNERS ASSOCIATION

DUNHAM LAKE PROPERTY
 OWNERS ASSOCIATION
 1986 ACCOUNTING

***** PARK SERVICES *****

TOTAL
 9750.00

security guard service * 7000.00
 park & west beach lighting 400.00
 fish stocking 1200.00
 porta-john rental 600.00
 trash disposal 300.00
 annual picnic subsidy 250.00

***** ADMINISTRATIVE *****

TOTAL
 3675.00

office supplies 50.00
 bank charges 75.00
 liability insurance 750.00
 corp fee & memberships 150.00
 postage 500.00
 association printing 200.00
 dues acct'g & sec fees 250.00
 newsletter printing 700.00
 contingency fund 1000.00

***** PARK MAINTENANCE *****

TOTAL
 3125.00

park & beach clean-up 675.00
 contracted grass cutting 1250.00
 workbee & gen maintenance 1200.00

***** SPECIAL PROJECTS *****

TOTAL
 6200.00

reforesting greenbelt 1000.00
 east & west beach sand 500.00
 greenbelt survey 1500.00
 childrens play equipment 1500.00
 picnic tables 500.00
 new bridge (east beach) 400.00
 fish survey 800.00

BUDGET
 22750.00

***** PROJECTED REVENUE FROM CIVIC COMM. 18950.00
 ***** CARRIED OVER FROM 1986 BUDGET 2000.00
 ***** \$5.00 DUES INCREASE 1800.00

TOTAL 22750.00

* includes costs of additional
 vandalism deterrents being
 explored by board

DUNHAM LAKE PROPERTY
OWNERS ASSOCIATION
1986 ACCOUNTING *

1987 PROPOSED BUDGET
DUNHAM LAKE PROPERTY
OWNERS ASSOCIATION

ITEM	APPROVED	SPENT	BALANCE
OUTSIDE TRASH DISPOSAL	300.00	200.00	100.00
NORTH PARK GRASS CUTTING	200.00	200.00	0
OTHER GRASS CUTTING	800.00	835.00	-35.00
PARK & WEST BEACH LIGHTING	350.00	281.35	68.65
WORKBEE EXPENSE	400.00	410.70	-10.70
PARK & BEACH CLEANUP	700.00	535.50	164.50
POSTAGE	500.00	507.50	-7.50
MEMBERSHIP DUES ACCOUNTING	150.00	150.00	0
SECRETARIAL FEE	100.00	100.00	0
LIABILITY INSURANCE	2000.00	2809.00	-809.00
NEWSLETTER EXPENSE	450.00	348.46	101.54
OTHER PRINTING	200.00	129.06	70.94
MICHIGAN CORPORATION FEE	20.00	25.00	-5.00
FISH STOCKING **	650.00	650.00	0
GATE, FENCE & LOCK EXPENSE	1300.00	1242.32	57.68
PORTA-JOHN RENTAL	640.00	520.00	120.00
OFFICE EXP'S & BANK CHARGES	55.00	129.18	-74.18
PICNIC SUBSIDY	125.00	125.00	0
PARK MAINTENANCE	300.00	124.56	175.44
SECURITY GUARD SERVICE ***	5000.00	5250.87	-250.87
GREENBELT SURVEY	1500.00	1869.87	-369.87
RAFT REPAIR	400.00	0	400.00
EAST BEACH SAND	1000.00	137.50	862.50
NON-BUDGETED ITEMS ****	0	943.65	-943.65

TOTAL	TOTAL	BUDGET
BUDGET	SPENT	BALANCE
17140.00	17524.52	-384.52

NOTES

* revised to correct a \$40. error in addition

** \$150.00 in donations to the fish stocking program

*** includes a \$75.00 credit for gate repair

**** expenses not planned for in original budget

OPENING BALANCE	CIVIC COMM.	OTHER INCOME	TOTAL CREDITS
690.32	18000.00	150.00	18840.32

TOTAL DEBITS
17524.52

CASH BALANCE
1315.80

Survey

Board consider having a park Perimeter survey conducted, with the perimeters marked with monuments.

J. Novak suggested that the

10-13-82

and having a survey done of the lake and park property by an engineering firm.

10-5-83

10-5-83

Gary Boss, of Boss Engineering, spoke to the Board about what it would entail to survey the green belt and park areas. After listening to the various options, the Board voted to have Boss Engineering do a feasibility study of a possible survey of the green belt.

12/7/83

12-7-83

To survey the green belt, G. Boss of Boss Engineering quoted the Board a price of \$100.00 per lot if allowed to brush a line 4 feet wide. There would also be a charge of \$15.00 per monument or \$10.00 per point using our womanized posts. The Board will propose at the annual meeting to commence the green belt survey starting from th North gate and surveying this year approximately 11 lots, which will be marked with womanized markers. Cost estimate is \$1,500.00. This will be performed by Boss Engineering. Each year thereafter till completion, the survey will be a budgeted item. A vote will be taken at the annual meeting.

1/4/84

1-4-84

Tom Engle gave a brief outline on the reasons for a greenbelt and park survey. He stated that it would authenticate and define the actual boundaries of the greenbelt, make it possible to recognize anyone encroaching on the greenbelt and possibly prevent another lawsuit. Following a discussion a vote was taken and the motion for the survey denied.

1/24/84

1-24-84

Mr. Herbert Cole asked the Board to resume placing cedar posts along the beach area. This he said was begun and not completed a few years ago. However, the Board felt that without a survey it would be impossible to know the various lot lines. A vote was made to resume this project. A vote was taken and the motion was denied.

1-27-84

Letter written to Gary Boss 2/17/84 to inform him that we would ^{not} purchase project in 1984. Letter read to Board, copy to Marilyn Skender

3-7-84

PARK SURVEY OF GREEN BELT. APPROVED AT ANNUAL MEETING JANUARY 30TH 1985. \$1500.00 BUDGETED FOR THIS PROJECT. NO BRUSHING TO BE DONE.

GARY BOSS TO BE CONTACTED ON STARTING THIS PROJECT.

3-30-85

- 1988 -

Chairperson - Judith Robins - 887-9074

Summary - * Finished survey and placed
posts - 21 posts were put in

- * Sent 10 letters over encroachment problems
- * Went on 3 park walks
- * Ran over budget so there was no money in the budget for planting and reforestation.
- * Suggested concept of managing Green Belt rather than just letting it lay dormant.

not clear whether court was foreclosed from ruling on merits of petition to vacate boulevard; hence court's findings of fact were insufficient for court of appeals to sustain accelerated judgment dismissing petition. *Salzer v. State Treasurer*, 48 Mich App 34.

17. Burden of proof. Since this act contains no statement as to burden of proof, appellate court would construe it to have manifested legislative intent, in accord with former § 26.492, to place burden on objectors to show reasonable objection to petition to vacate. In re *Gondek*, 69 Mich App 73.

Petitioners who sought vacation of portion of recorded plat were not required to show that present state of property would be impossible of indefinite continuance, fact that property could indefinitely remain in its natural state being factor to be considered in assessing reasonableness of objection to petition. In re *Gondek*, 69 Mich App 73.

Digest references. See *Callaghan's Mich Dig*, Dedication, § 45; Highways and Streets, § 204.

Textbook references. See *Callaghan's Mich Civ Jur*, Dedication § 50; Highways and Streets § 271 et seq.

§ 26.430(227) [Repealed by Pub Acts 1978, No. 367, imd eff July 22. This section dealt with the disposition of the lands vacated. For current provision, see § 26.430(227a).]

§ 26.430(227a) Disposition of lands vacated; title.] SEC. 227a. (1) Title to any part of the plat vacated by the court's judgment, other than a street or alley, shall vest in the rightful proprietor of that part. Title to a street or alley the full width of which is vacated by the court's judgment shall vest in the rightful proprietors of the lots, within the subdivision covered by the plat, abutting the street or alley.

(2) If the lots abutting the vacated street or alley on both sides belong to the same proprietor, title to the vacated street or alley shall vest in that proprietor. If the lots on opposite sides of the vacated street or alley belong to different proprietors, title up to the center line of the vacated street or alley shall vest in the respective proprietors of the abutting lots on each side.

(3) If only part of the width of a street or alley, not extending beyond the center line, is vacated, title to the vacated part of the street or alley shall vest in the proprietor of the lots abutting the same.

(4) When title to any part of a vacated street or alley vests in an abutting proprietor, any future legal description of the abutting lot or lots shall include that part of the vacated street or alley. (MCL § 560.227a.)

History. Added by Pub Acts 1978, No. 367, imd eff July 22.

Cross-references. Vacation of streets and alleys in villages, see § 5.1298, supra; in fourth-class cities, §§ 5.1703, 5.1808 et seq., supra.

1-10. [Reserved for use in future supplementation.]

11. Reversion. Under prior act, it was held that where an alley was vacated the land in such alley to the center of it became attached to an adjoining lot, and upon the sale of a specified number of feet off the part of the lot abutting on such alley, measurement must be made from the center of the alley. *Gazley v. Koepke*, 195 Mich 509.

Where record did not show that defendant restricted its petition for condemnation to land contained within platted lot lines exclusive of appurtenant rights in street, held, judgment of condemnation covered all of owner's interest in lots, including reversionary interest in street, although city

History. As amended by Pub Act 1978, No. 367, imd eff July 22.

vacated street during proceeding and before amount of award was deposited. *Cleaver v. Board of Education of Detroit*, 263 Mich 301.

In event street easement is vacated, reversionary property rights in abandoned street vest in owners of adjacent parcels of property. *Conzelman v. Detroit*, 281 Mich 328.

On vacation of an alley, under former statute, the land reverted to the owners of the abutting lots, extending the boundaries of the lots to the center of the vacated alley. *Valoppi v. Detroit Engineering & Machine Co.*, 339 Mich 674.

Neither proceedings under the county road law to abandon a county road within a platted area nor proceedings on petition to the circuit court under former Plat Act to vacate or alter the plat by abandonment of the road would assure reversion of the land within the highway limits to abutting owners, since private rights that might have been created by the dedication, the sale of lots, and conveyances subsequent to the platting could not be adjudicated in either proceeding. *Op Atty Gen*, Jan 4, 1954, No. 1736.

Under former statute, abandonment of alley in plat by county road commission resulted in ownership in adjoining lot owner or owners of title to area covered by alley, free of easement for public travel. *Op Atty Gen*, June 28, 1955, No. 2144.

12. Terms of conveyance. Where a lot is conveyed as abutting upon a street or alley the dedication of which is to the perpetual use of the public, reserving to the dedicators, their heirs and assigns "the reversion thereof whenever discontinued by law," the grantee takes the land to the center of the street or alley thereafter vacated. *Scudder v. Detroit*, 117 Mich 77.

13. Vacation of replat. Accelerated judgment for defendant county road commission in suit seeking vacation of streets and alleys in township of county was affirmed where resolution of county road commission taking over such streets and alleys and making them part of county road system was found to be fully effective. *In re Petition of Miller*, 18 Mich App 480.

In action to vacate portion of street in dedicated plat, pleadings of defendants asserting that dedication of street in plat was properly accepted formally or by reason of user, or by expenditure of public money for repair, improvement, or control of street presented questions of fact which precluded trial court from granting summary judgment for plaintiffs. *Jones v. Crawford County Road Commission*, 45 Mich App 110.

Absent acceptance by township of boulevard dedicated as public street on recorded plats, there could be no dedication and, without a dedication, township's lack of approval for vacation of boulevard was of no consequence and would not operate to bar circuit court's consideration of petition to vacate boulevard. *Salzer v. State Treasurer*, 48 Mich App 34.

Record supported trial court's finding of no clear intent to abandon as would justify finding of abandonment in nonjury action to vacate certain areas shown on subdivision plat as privately dedicated to use of subdivision property owners. *Feldman v. Monroe Tp. Board*, 51 Mich App 752.

When replat had been vacated by court order under former § 26.489, and original plat had not been altered or vacated under provisions of former act, then area reverted to original plat. *Op Atty Gen*, April 1, 1958, No. 3065.

ALR note. Description with reference to highway as carrying title to center or side of highway, 49 ALR2d 982.

Digest references. See Callaghan's Mich Dig, Dedication, § 45; Highways and Streets, § 214.

Textbook reference. See Callaghan's Mich Civ Jur, Highways and Streets § 281.

§ 26.430(228) Recording of judgment.] SEC. 228. Within 30 days ♦ [after entry of judgment,] for ♦ vacation[, correction,] or revision [of a plat, plaintiff] shall record [the judgment] in the office of the register of deeds ♦. The register of deeds shall place on the original plat the date, liber, and page of the ♦ [record of the court's judgment]. (MCL § 560.228.)

History. As amended by Pub Acts 1978, No. 367, imd eff July 22.

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1967 DEC 26 AM 9 55

Clarence Blackburn
REGISTER OF DEEDS
LIVINGSTON COUNTY, MICH.

RESOLUTION ABSOLUTELY ABANDONING AND
DISCONTINUING A PART OF DUNHAM ROAD

MEETING OF THE BOARD OF COUNTY ROAD COMMISSIONERS OF THE
COUNTY OF LIVINGSTON, MICHIGAN, held at Howell, Michigan on
December 20, 1967.

PRESENT: COMMISSIONERS
Fred Berry
Norman S. Topping

ABSENT: Charles R. Ward

COMMISSIONER Topping moved the adoption of the following

RESOLUTION:

WHEREAS, a petition has been filed with the Board of
County Road Commissioners of the County of Livingston for the abso-
lute abandonment and discontinuance of part of a highway known as
Dunham Road;

AND WHEREAS, there are no buildings of any character located

along that part of Dunham Road to be absolutely abandoned and discontinued

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lute abandonment and discontinuance of part of a highway known as
Dunham Road;

AND WHEREAS, there are no buildings of any character located
along that part of Dunham Road to be absolutely abandoned and discontinued,

AND WHEREAS, Section 18, Chapter 4, of Act 283 of the Public
Acts of the State of Michigan for the Year 1909, and amendments thereto,
authorizes and empowers the Board of County Road Commissioners, at any
time, to absolutely abandon and discontinue any county road or any part
thereof;

AND WHEREAS, that part of Dunham Road to be absolutely aban-
doned and discontinued is no longer necessary as a public highway,

NOW, THEREFORE, BE IT RESOLVED that it is to the best interest
of the public that the portion of Dunham Road described as follows:

...and from ruling on merits of petition to
...of fact were insufficient for court

All that part of the East $\frac{1}{2}$ of Section 24 and the East $\frac{1}{2}$ of Section 13, Town 3 North, Range 6 East, Hartland Township, Livingston County, Michigan, which lies 33 feet each side of, measured at right angles and parallel to, the centerline of a portion of Dunham Road, reserving therein an easement 10 feet on each side of said centerline for public utilities and public drainage.

The centerline of that portion of Dunham Road is described as: commencing at the Northwest corner of lot 172 of Dunham Lake Estates South Subdivision as recorded in liber 11, page 32 of plats, Livingston County Records; thence North $0^{\circ} 48'$ West, 33 feet to centerline of Dunham Road; thence South $89^{\circ} 02'$ East, 1036.53 feet to a point of beginning; thence South $89^{\circ} 02'$ East, 327.27 feet to point of ending.

be absolutely abandoned and discontinued. It is hereby absolutely abandoned and discontinued and shall henceforth cease to be a public highway.

RESOLVED FURTHER, that a copy of this resolution be filed with the Register of Deeds of Livingston County, the Department of Treasury of the State of Michigan, the Department of State Highways of the State of Michigan, and the Hartland Township Board, and that it be published in a newspaper, circulated in the county, once a week for three successive weeks.

The Resolution was supported by Commissioner Berry and carried by the following vote:

Ayes: COMMISSIONERS:
Fred Berry
Norman S. Topping

Nays: None



1988
9 total

1988
PARK ACCESS
* 2 POSTS
BRIARHILL

* 1988
7 POSTS
on Tipsico

P-5

STEVEN R. MORGAN



BOSS ENGINEERING COMPANY
CIVIL ENGINEERS & LAND SURVEYORS

MAIN OFFICE: (517) 546-4836
Box 360, 3121 East Grand River Ave. • Howell, MI 48843

BRIGHTON: (313) 229-4773

January
1988
note from
Herb Cole
887-4653

PA RING THE

33' VACATED 1/2 DUNHAM ROAD

MR. STEVEN MORGAN SAID THERE SHOULD BE NO PROBLEM IN PLACING AN IRON ENGINEERING MARKER NORTH 33' OF THE NORTH EAST CORNER OF LOT 65.

HE SAID IT WOULD MOST LIKELY BE DUE NORTH INSTEAD OF ON THE SAME N 11° 16' W LINE. THIS WOULD PUT THE STAKE APPROX. 6' EAST OUT OF LINE WITH THE 3 EXISTING STAKES ON THE N 11° 16' W LINE. IRONS ON N 11° 16' W LINE SHOULD BE IN LINE BECAUSE IT IS EASIER TO SIGHT DOWN THE ROW OF 4" X 4" POSTS. POSTS HAVE BEEN MOVED BY LOT OWNERS IN THE PAST.

ALSO, PAGE 2 OF TITLE SEARCH (S-5046) DOES NOT SHOW LIBER AND PAGE NUMBER. MET. TITLE CO. SAID THIS INFO. IS ON PLATS.

02.15.88
D.L.P.O.F. Stationery

Save this one
never get a copy of
typed letter

Mr. Steven Morgan
Boss Engineering
3121 E. Grand River
Howell, MI 48843

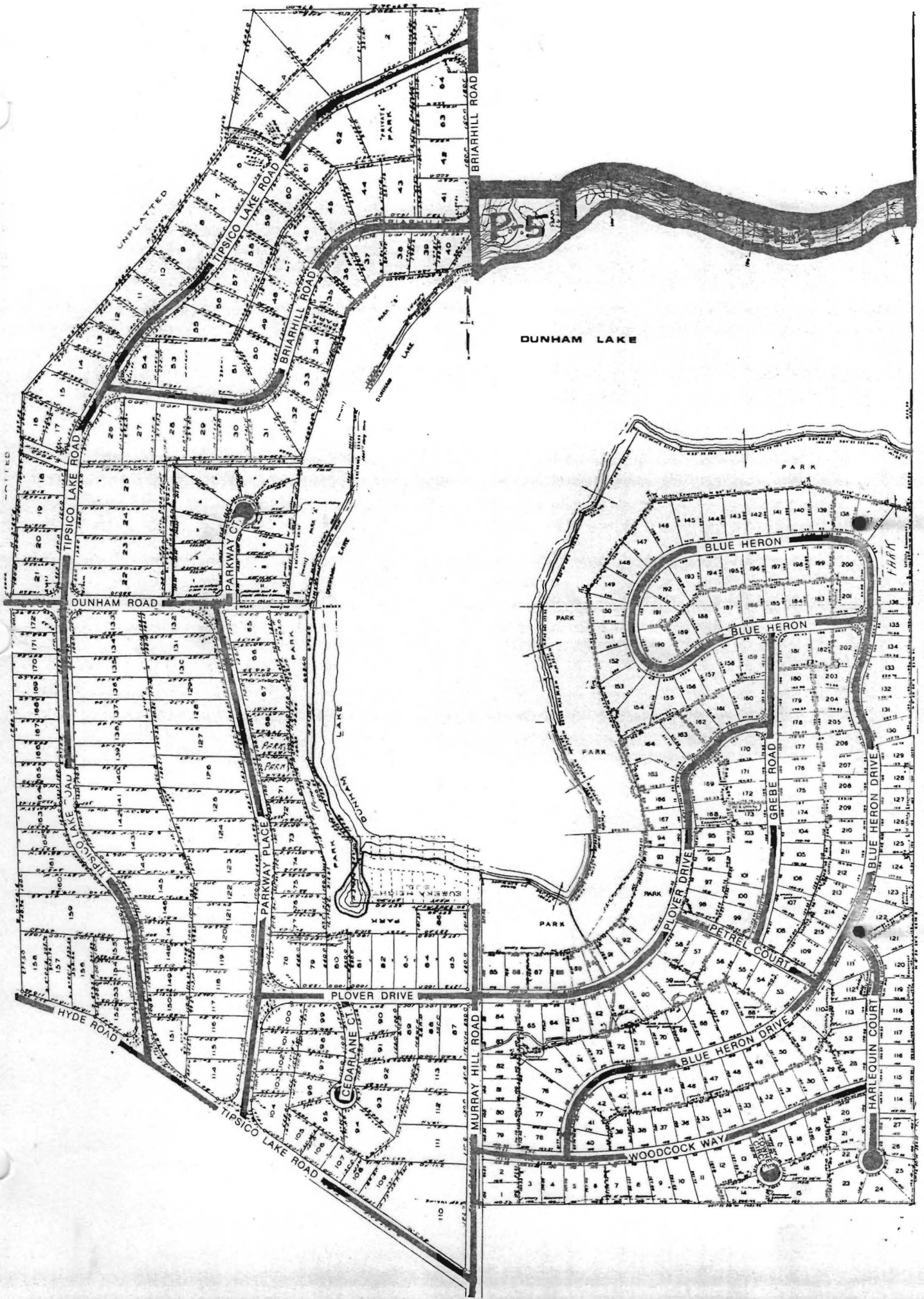
Dear Steven Morgan,
This letter is to confirm our request
for the following surveying and placement
of posts at those sites for the D.L.P.O.F.
on March 7, 1988. We need the following
lots surveyed: ^{Sailey}

1. Lots 11*, 65*, 89, 90, 91, 92, 93,
the park at lot 136, and the north
end of the park by the water
2. Survey and place posts along the
park land on TIPSICO LAKE ROAD.
a. Lots 62, 42, 43, 63 & 64.

* These 2 sites are being questioned, please
state your understanding of this situation.

Please feel free to call me at work after Feb.
22nd - MON-FRI - 9:00 - 5:00 p.m. (517.332.2266)
Home - 313.887.9074.

I look forward to seeing you ~~March 7th~~ ^{the} ~~the~~ ^{the} afternoon
of March 7th
Sincerely Yours
Judith Robins
GREENBELT CHAIRPERSON



DUNHAM LAKE

BLUE HERON

BLUE HERON

PETREL COURT

BLUE HERON DRIVE

WOODCOCK WAY

UNPLATTED

BRIARHILL ROAD

DUNHAM ROAD

PLOVER DRIVE

MURRAY HILL ROAD

HYDE ROAD

TIPSICO LAKE ROAD

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BRIARHILL ROAD

PARKWAY PLACE

PARKWAY PLACE

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PLOVER DRIVE

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BLUE HERON DRIVE

HARLEQUIN COURT

HARLEQUIN COURT

1" = 50'

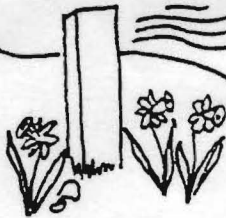
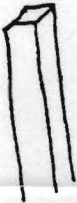
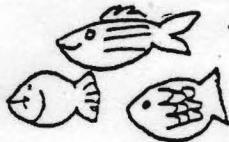
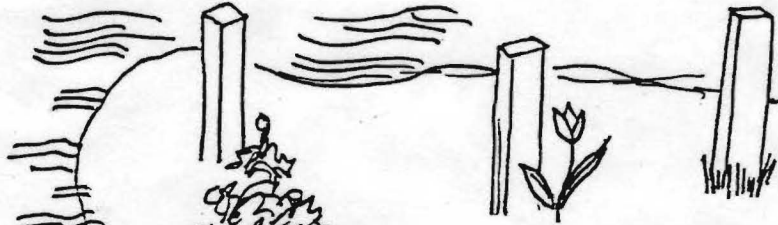
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DUNHAM



LAKE



PARKS & WALKWAYS

PROPERTY of DLPOA



BOSS ENGINEERING COMPANY
CIVIL ENGINEERS & LAND SURVEYORS

MAIN OFFICE: 3121 EAST GRAND RIVER • HOWELL, MICHIGAN 48843

Ordered By _____ From _____
 Phone Home (____) _____ Work (____) _____
 Lot. No. 66 - DUNHAM LK. SOUTH L. _____ P. _____
2754 PARKWAY PL.
 Subdivision _____
 Section 11 - DUNHAM LK. CENTER
2709 PARKWAY PL.
 Township _____ County _____
 Billing Name DUNHAM LK. PROP. OWNERS Phone (____) 887-3696
ASSOC.
 Address #1 _____
 Address #2 2709 PARKWAY PLACE
 City MILFORD
 State _____
 Attention NAME

BOSS ENGINEERING USE ONLY:		
PROJECT CODE		
DATE		
PROJECT NAME		
BUILDING CATEGORY		
PROJECT PRINCIPAL		
PROJECT ENGINEER		
PROJECT MANAGER		
ESTIMATED COMPLETION DATE		

INV #	DATE	ATE	AMT	INV #	DATE	AMT

Final Bill
 \$ 277.50
 for job.

WORK TO BE PERFORMED

- ANGLE POINT
- SE COR. ... STATES CENTER - RESTAKE
- RESET AXES ...
- WED. ... @ 7:30 @ LOT ...
- SET NAILS IN WITNESS TREES

In consideration of Boss Engineering performing the above-listed services in accordance with generally accepted surveying and engineering procedures, client hereby agrees to pay Boss Engineering the balance due, upon completion of the work, billed accordingly to the hourly fees, or the quoted fee as listed below:

Secretary	\$16/hr.	Consultant/P.E./L.L.S.	\$50/hr.
Survey/Engineering Technician I	\$26/hr.	Electronic Data Collection	\$50/hr.
Survey/Engineering Technician II	\$30/hr.	Principal	\$65/hr.
Survey/Engineering Technician III	\$33/hr.	Municipal Meetings	\$100/meeting
Survey/Engineering Technician IV	\$36/hr.	(With Principal)	\$150/meeting
Surveyor/Engineer	\$40/hr.	Blueprints	\$2.00
C.A.D.D.	\$44/hr.	Sepias	\$10.00

Any subcontracting will be in addition to the fee as quoted, unless otherwise specified, subject to a 15% handling fee. Time is charged from the time of leaving the office until return.

If, after 30 days from the billing date, Boss Engineering has not received payment in full, client agrees to pay a 1½% per month service charge.

If the client is other than owner, part owner, or lessee, and is acting as an agent for the owner, part owner, or lessee, such client-agent who authorizes the work shall be liable and so agrees to be responsible for the fee set forth, to Boss Engineering, whether or not owner, or lessee, agrees to reimburse client-agent.

I certify that I have contracted Boss Engineering to perform the above-listed services and agree to the terms and conditions as set forth in this agreement.

Required Retainer \$ _____ Authorizing Signature _____
 Quoted Fee \$ HOURLY Date 8-28-89
 Estimated Fee \$ 250 MIN. + Sign and return white copy.

PROPOSAL TO STOP GREENBELT ENCROACHMENTS

OBJECTIVE

Eliminate all lake area greenbelt encroachments by the end of May, 1991.

STRATEGY

Use the combined resources of the DLPOA and Civic Committee to document and return all lake area greenbelt encroachments to a natural state that is consistent with the adjoining undisturbed areas.

METHOD

1. Inspect all lake area greenbelt boundaries during the fall of 1989. Note the degree of each encroachment.
2. Classify each encroachment as to Type I or Type II. A Type I encroachment extends less than 5 feet into the greenbelt. Type II encroach five feet or more into the greenbelt.
3. DLPOA will mail warning notices to all property owners with Type I encroachments observed during the fall of 1989. An affidavit will be filed by the Civic Committee with the register of deeds to document any remaining Type I encroachments observed in the spring of 1990.
4. File affidavits with the register of deeds to document all Type II encroachments by the end 1989.
5. Include funds for affidavits and greenbelt restoration costs in the 1990 budget.
6. Identify Type I or Type II encroachments that are present in the fall of 1990.
7. Contract the work to prepare encroachment areas for return to their natural state (remove structures, rototill, etc.)
8. Include funds for greenbelt reforestation in the 1991 budget.
9. Reforest the encroachment areas in the spring of 1991.

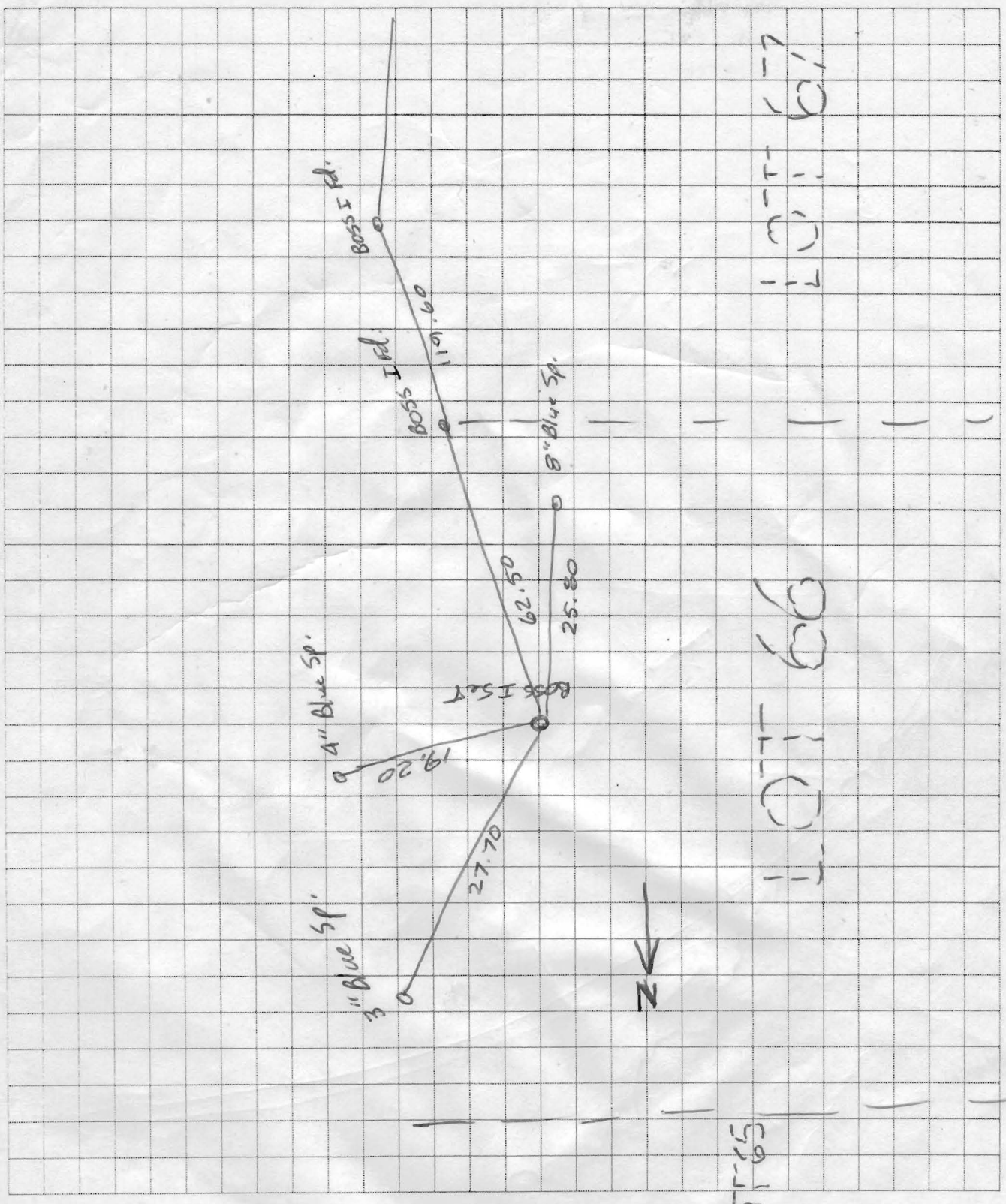
August 8, 1989

Project Dunham Lk. South Lot 66 Project No. 89526

By R.L.B. MRE Date 9-13-89

Sheet 1 of 1

BOSS ENGINEERING COMPANY
CIVIL ENGINEERS & LAND SURVEYORS



LOT 66

LOT 66

LOT 67

GREENBELT ENCROACHMENT MEETING OF AUGUST 30, 1989

OBJECTIVE

Identify our philosophy toward greenbelt encroachment and clarify the individual roles of the DLPOA and Civic Committee in halting encroachment.

AGENDA

1. Discuss issues

- Do we prevent further encroachment?
- Do we halt existing encroachment and restore the natural state of the affected areas?
- What price are we willing to pay and what burden are we willing to bear in order to achieve the above?

2. Develop a greenbelt encroachment action plan

- Review NLW proposal
- Formulate our plan
- Identify specific DLPOA and Civic Committee roles in carrying out the plan

August 30, 1989