

CERTIFICATE OF SURVEY

PART OF GOVERNMENT LOTS 9 & 10,
SECTION 9, TOWNSHIP 135 NORTH, RANGE 29 WEST,
CASS COUNTY, MINNESOTA

RECEIVED
7662
FEB 13 2014
GL 97-10 9-235-27
COUNTY SURVEYOR

30176 Old Highway #371
Suite 2
P. O. Box 874
Pequot Lakes, MN 56472
Phone: 1-218-568-4940
www.stonemarksurvey.com



HEREBY CERTIFY THAT THIS SURVEY, PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND UNDER THE LAWS OF THE STATE OF MINNESOTA.
Cynthia M. Hyde
CYNTHIA M. HYDE PLS44881
8/2/13 LIC. NO. 44881
DATE

UPPER GULL LAKE
GENERAL DEVELOPMENT CLASSIFICATION
NORMAL RESERVOIR POOL ELEVATION = 1194.00
HIGHEST KNOWN ELEVATION = 1195.44
BENCHMARK: CORPS OF ENGINEERS GAUGE AT GULL LAKE DAM 0.00 GAUGE = 1188.14 ELEVATION
LAKE ELEVATION = 1193.94 ON 8-18-09
BASED ON NGVD 1929 DATUM

**EXISTING LEGAL DESCRIPTION
DOCUMENT NUMBER 500971**

That part of Government Lots 9 and 10, Section 9, Township 135, Range 29, described as follows: Commencing at the meander corner of the shore of Upper Gull Lake which is the Northwest corner of said Government Lot 9, said point being 1498.0 feet West of the Northeast corner of said Section 9; thence South 34°35' West 200 feet along said shore to the place of beginning; thence South 66°42' East 241.1 feet; thence South 42°9' West 140.2 feet; thence North 56°42' West 241.5 feet to the shore of Upper Gull Lake; thence North 48°9' East 100 feet along said shore to the place of beginning.
Together with a perpetual easement for ingress and egress over existing roadways to said property.

IMPERVIOUS CALCULATIONS

EXISTING	Impervious Area (sq.ft.)	Gross Area (sq.ft.)	Percent Impervious (sq.ft.)
Structures			
House	2,314	29,578	7.8%
Shed	173	29,578	0.6%
Deck	180	29,578	0.6%
Concrete			
Driveway	4,122	29,578	13.9%
Bituminous			
Point Narrows Road	1,947	29,578	6.6%
Total	8,736	29,578	29.5%

Concrete Driveway within Road Easement = 202 sq. ft.
Bituminous within Road Easement = 1947 sq. ft.

IMPERVIOUS CALCULATIONS

PROPOSED	Impervious Area (sq.ft.)	Net Area (sq.ft.)	Percent Impervious (sq.ft.)
Structures			
Proposed House	2,663	29,578	9.0%
Proposed Covered outdoor patio	140	29,578	0.5%
Proposed Porch	171	29,578	0.6%
Shed	173	29,578	0.6%
Concrete			
Driveway	3,244	29,578	11.0%
Bituminous			
Point Narrows Road	1,947	29,578	6.6%
Total	8,338	29,578	28.2%

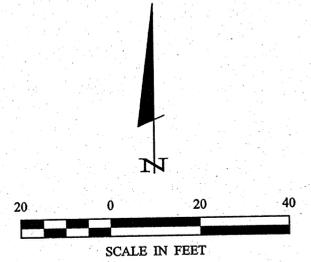
RUN OFF CALCULATIONS

Total Impervious Surface Area	8,627 sq. ft.	X	0.0833 ft.	=	719 cu. ft.
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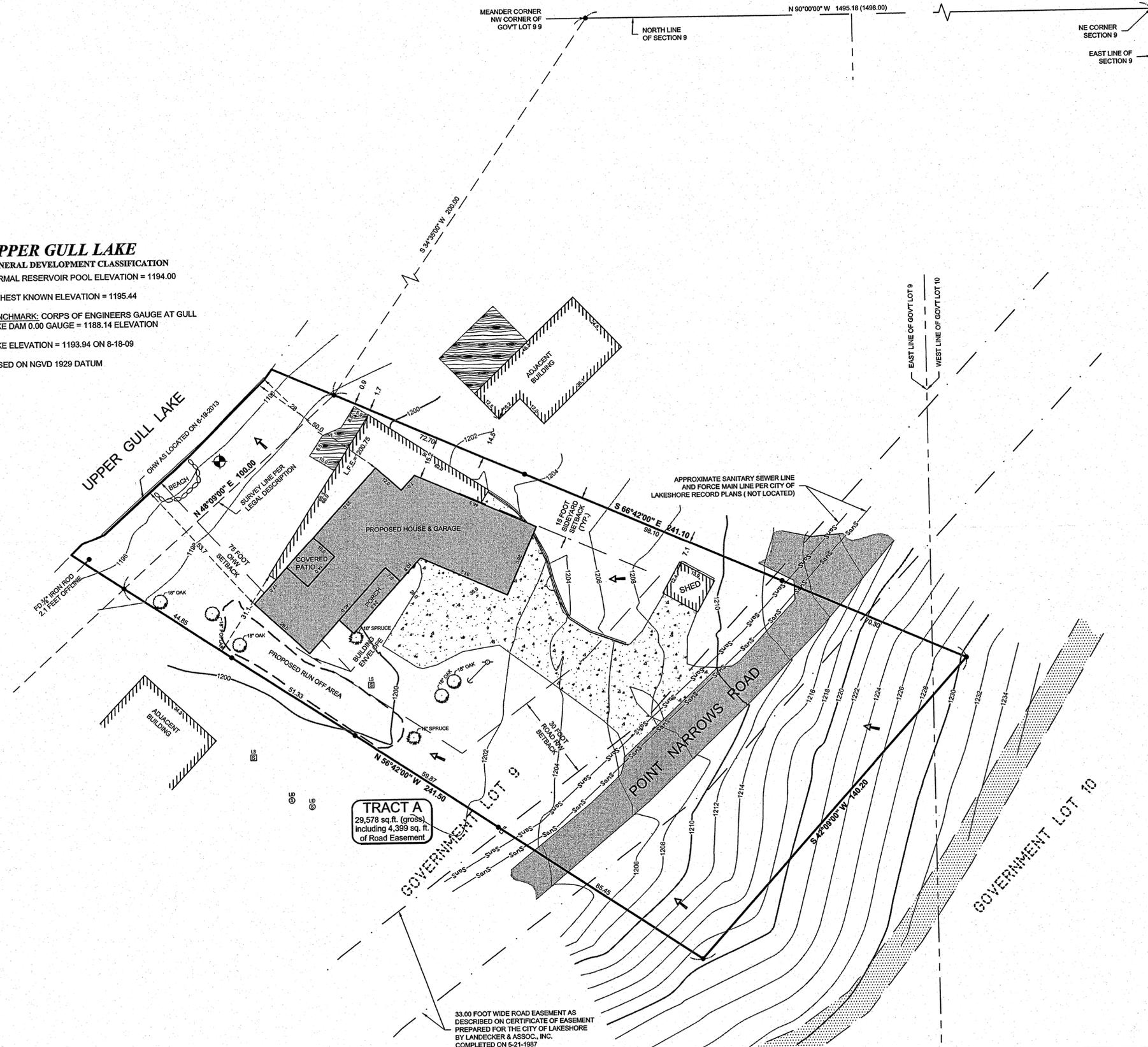
PROPOSED RUN OFF AREA
TOP SURFACE AREA = 940 SQ. FT.
BOTTOM SURFACE AREA = 515 SQ. FT.
1' DEEP WITH 3:1 SIDE SLOPES
TOTAL RUN OFF STORAGE PROPOSED = 727 CU. FT.

- LEGEND**
- DENOTES EXISTING RETAINING WALL
 - DENOTES EDGE OF EXISTING BITUMINOUS
 - DENOTES EDGE OF EXISTING GRAVEL
 - DENOTES EDGE OF EXISTING CONCRETE
 - DENOTES EDGE OF EXISTING WOODEN DECKING
 - DENOTES EXISTING UTILITY POLE W/ GUY WIRE
 - DENOTES EXISTING PHONE PEDESTAL & PHONE BOX
 - DENOTES EXISTING SEPTIC VENT, SEPTIC CLEANOUT, & SEPTIC TANK LID
 - DENOTES EXISTING SEPTIC LIFT STATION
 - DENOTES EXISTING INTERMEDIATE CONTOURS
 - DENOTES EXISTING INDEX CONTOURS
 - DENOTES EXISTING CONIFEROUS TREE, TYPE & SIZE
 - DENOTES EXISTING DECIDUOUS TREE, TYPE, & SIZE
 - DENOTES EXISTING SURFACE DRAINAGE FLOW
 - (123.45) DENOTES FLAT AND/OR DEEDED MEASURE
 - ⊕ DENOTES BENCHMARK: SOUTH FACE OF 18" OAK, 10 FEET± FROM LAKE ELEV. = 1197.58
 - DENOTES MONUMENT FOUND

ORIENTATION OF THIS BEARING SYSTEM IS BASED ON THE NORTH LINE OF SECTION 9 TO HAVE AN ASSUMED BEARING OF N 90°00'00" W.



- NOTES:**
- Zoning for subject tract = "Medium Density Residential R2".
 - There are no bluffs or wet lands within surveyed property.
 - Parcel ID of subject parcel: 90-009-1205.
 - The property address of subject parcel: 1014 Point Narrows Road.
 - For survey reference information see Certificate of Survey drawing signed by Cynthia M. Hyde on August 30, 2009 - Landecker & Associates, file #091137.



TRACT A
29,578 sq. ft. (gross)
including 4,399 sq. ft. of Road Easement

33.00 FOOT WIDE ROAD EASEMENT AS DESCRIBED ON CERTIFICATE OF EASEMENT PREPARED FOR THE CITY OF LAKESHORE BY LANDECKER & ASSOC., INC. COMPLETED ON 5-21-1987

Project File # 8/22/13 2:30 PM - F:\Drawings\2013\131129 Jackson-Franklin Builders\dwg\C13129.dwg

CERTIFICATE OF SURVEY

PROJECT NO.:	13129	PROJECT MANAGER:	CMH
DATE:	8-21-13	CHECKED BY:	CMH
DESCRIPTION:	Updated with new house and impervious calculations	DRAWN BY:	RJF
DATE:	8-2-13	FILE NAME:	C13129.dwg
DATE:	8-2-13	FIELD BOOK:	BOOK 419 Pgs. 56
DATE:	8-2-13	VERT.:	NONE

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