CERTIFICATE OF SURVEY

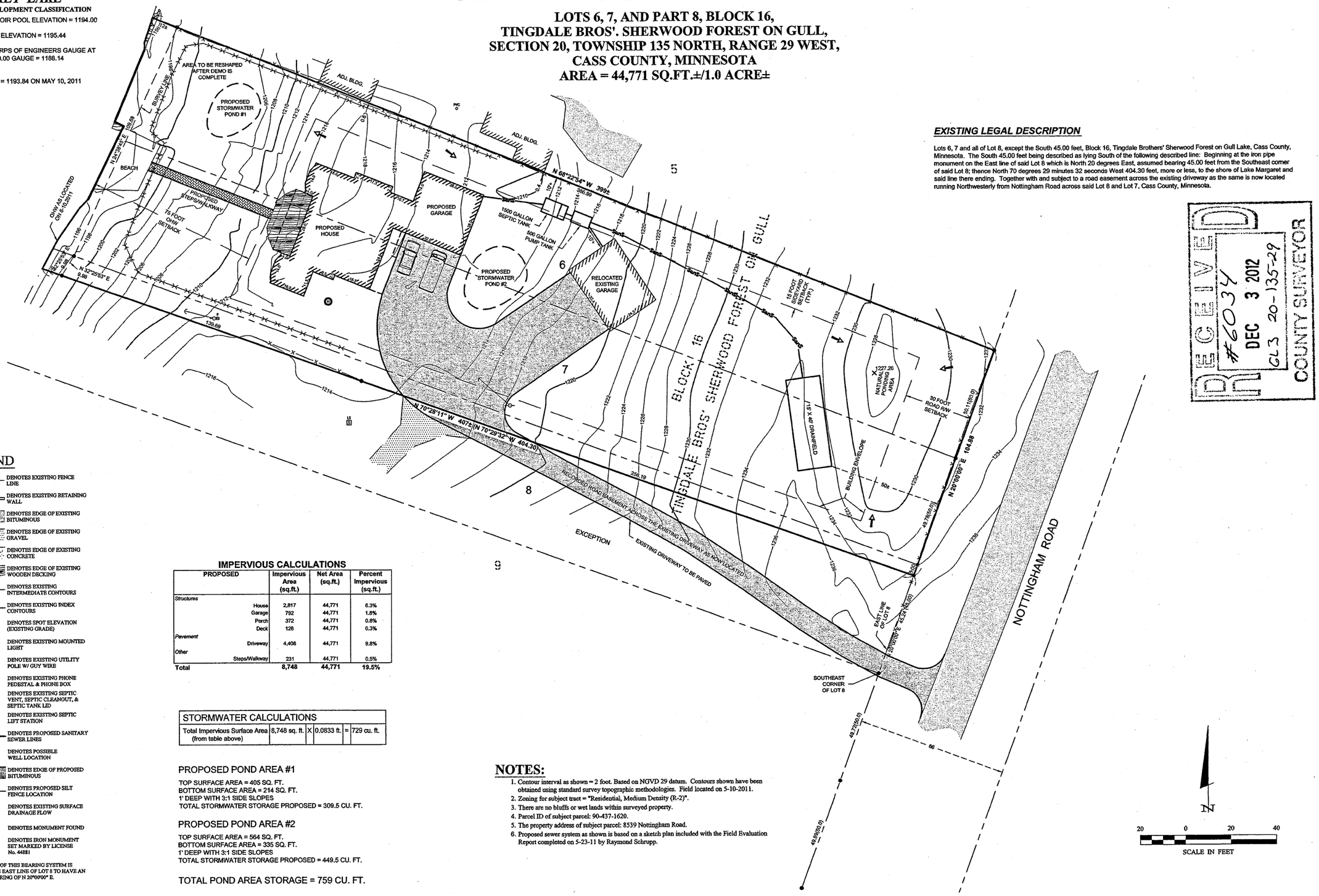
LOTS 6, 7, AND PART 8, BLOCK 16,
TINGDALE BROS'. SHERWOOD FOREST ON GULL,
SECTION 20, TOWNSHIP 135 NORTH, RANGE 29 WEST,
CASS COUNTY, MINNESOTA
AREA = 44,771 SQ.FT.±/1.0 ACRE±

MARGARET 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 = 1193.84 ON MAY 10, 2011



EXISTING LEGAL DESCRIPTION

Lots 6, 7 and all of Lot 8, except the South 45.00 feet, Block 16, Tingdale Brothers' Sherwood Forest on Gull Lake, Cass County, Minnesota. The South 45.00 feet being described as lying South of the following described line: Beginning at the iron pipe monument on the East line of said Lot 8 which is North 20 degrees East, assumed bearing 45.00 feet from the Southeast corner of said Lot 8; thence North 70 degrees 29 minutes 32 seconds West 404.30 feet, more or less, to the shore of Lake Margaret and said line there ending. Together with and subject to a road easement across the existing driveway as the same is now located running Northwesterly from Nottingham Road across said Lot 8 and Lot 7, Cass County, Minnesota.

RECEIVED
#60634
DEC 3 2012
GL3 20-135-29
COUNTY SURVEYOR

LEGEND

- DENOTES EXISTING FENCE LINE
- 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
- 1208 DENOTES EXISTING INTERMEDIATE CONTOURS
- 1210 DENOTES EXISTING INDEX CONTOURS
- 1234.5 DENOTES SPOT ELEVATION (EXISTING GRADE)
- DENOTES EXISTING MOUNTED LIGHT
- 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 PROPOSED SANITARY SEWER LINES
- DENOTES POSSIBLE WELL LOCATION
- DENOTES EDGE OF PROPOSED BITUMINOUS
- DENOTES PROPOSED SILT FENCE LOCATION
- DENOTES EXISTING SURFACE DRAINAGE FLOW
- DENOTES MONUMENT FOUND
- DENOTES IRON MONUMENT SET MARKED BY LICENSE No. 44881

ORIENTATION OF THIS BEARING SYSTEM IS BASED ON THE EAST LINE OF LOT 8 TO HAVE AN ASSUMED BEARING OF N 20°00'00" E.

IMPERVIOUS CALCULATIONS

PROPOSED		Impervious Area (sq.ft.)	Net Area (sq.ft.)	Percent Impervious (sq.ft.)
Structures				
	House	2,817	44,771	6.3%
	Garage	792	44,771	1.8%
	Porch	372	44,771	0.8%
	Deck	128	44,771	0.3%
Pavement				
	Driveway	4,408	44,771	9.8%
Other				
	Steps/Walkway	231	44,771	0.5%
Total		**8,748**	**44,771**	**19.5%**

STORMWATER CALCULATIONS					
Total Impervious Surface Area (from table above)	8,748 sq. ft.	X	0.0833 ft.	=	729 cu. ft.

PROPOSED POND AREA #1

TOP SURFACE AREA = 405 SQ. FT.
BOTTOM SURFACE AREA = 214 SQ. FT.
1' DEEP WITH 3:1 SIDE SLOPES
TOTAL STORMWATER STORAGE PROPOSED = 309.5 CU. FT.

PROPOSED POND AREA #2

TOP SURFACE AREA = 564 SQ. FT.
BOTTOM SURFACE AREA = 335 SQ. FT.
1' DEEP WITH 3:1 SIDE SLOPES
TOTAL STORMWATER STORAGE PROPOSED = 449.5 CU. FT.

TOTAL POND AREA STORAGE = 759 CU. FT.

NOTES:

1. Contour interval as shown = 2 foot. Based on NGVD 29 datum. Contours shown have been obtained using standard survey topographic methodologies. Field located on 5-10-2011.
2. Zoning for subject tract = "Residential, Medium Density (R-2)".
3. There are no bluffs or wet lands within surveyed property.
4. Parcel ID of subject parcel: 90-437-1620.
5. The property address of subject parcel: 8539 Nottingham Road.
6. Proposed sewer system as shown is based on a sketch plan included with the Field Evaluation Report completed on 5-23-11 by Raymond Schrupp.

20 0 20 40
SCALE IN FEET

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

I HEREBY CERTIFY THAT THIS SURVEY, PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MINNESOTA.
Cynthia M. Hilde
CYNTHIA M. HILDE PLS#44881
DATE 5/25/11 LIC. NO. 44881

REVISIONS		
DESCRIPTION	BY	DATE

CERTIFICATE OF SURVEY
Proposed Conditions-Stephan Frawley
Glenn Oscarson
Northwoods Homes
P.O. Box 62
Nisswa, MN 56468

PROJECT MANAGER: CMH
CHECKED BY: CMH
DRAWN BY: RJF
PROJECT No.: 11059
FILE NAME: C11059-2.dwg
FIELD BOOK: BOOK 406 PG. 41
DATE: 5-25-2011
SCALE: HORZ. 1"=20' VERT. NONE

SHEET 2 OF 2

Roger Forsella 9/26/2011 12:47 PM - P:\Drawings\2011\11059 Northwood Homes - Frawley\dwg\C11059-2.dwg