

CERTIFICATE OF SURVEY

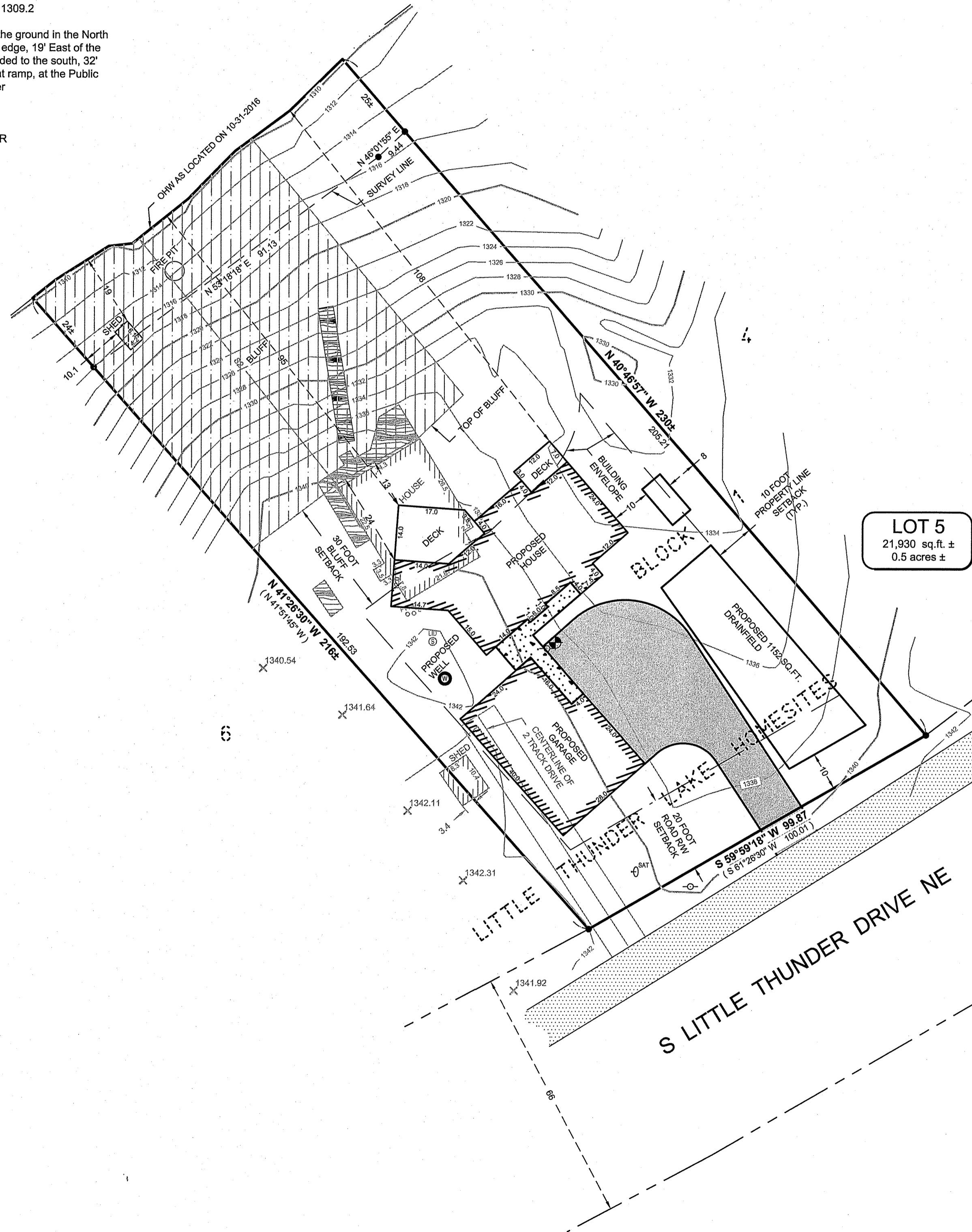
LOT 5, BLOCK 1, LITTLE THUNDER LAKE HOMESITES
SECTION 7, TOWNSHIP 140 NORTH, RANGE 25 WEST,
CASS COUNTY, MINNESOTA

LITTLE THUNDER LAKE RECREATIONAL DEVELOPMENT CLASSIFICATION

LAKE ELEVATION = 1308.89 ON 10-31-2016
ORDINARY HIGH WATER ELEVATION = 1309.2

BENCHMARK: 3/8" x 8" spike 1.0' above the ground in the North side of a 0.8' red pine, 56' from the water's edge, 19' East of the East edge of the concrete boat ramp extended to the south, 32' South of the South end of the concrete boat ramp, at the Public Access, South Little Thunder Dr NE, Remer
Elev. = 1313.13

BASED ON NGVD 29 DATUM
INFORMATION OBTAINED FROM MNDNR



IMPERVIOUS CALCULATIONS

PROPOSED	IMPERVIOUS AREA (sq.ft.)	Net Area (sq.ft.)	Percent Impervious (sq.ft.)
House & Decks	1,736	21,930	7.9%
Garage	1,056	21,930	4.8%
Concrete	197	21,930	0.9%
Driveway	1,553	21,930	7.1%
Existing Shed	26	21,930	0.1%
Existing Stairs	140	21,930	0.6%
Total	4,708	21,930	21.5%

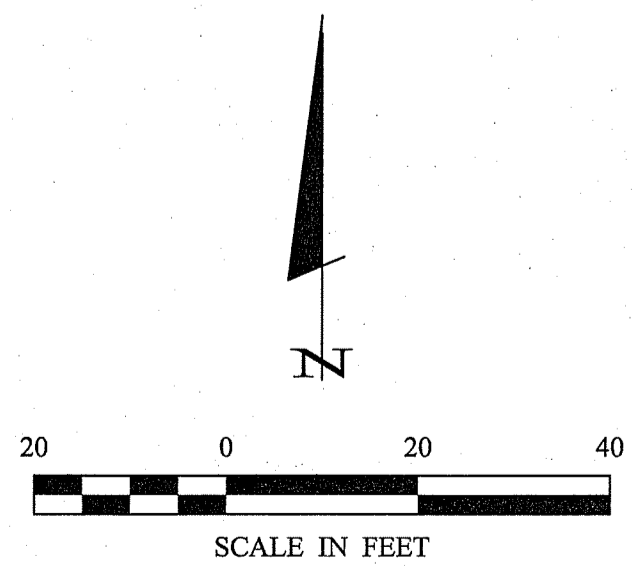
IMPERVIOUS CALCULATIONS

EXISTING	IMPERVIOUS AREA (sq.ft.)	Net Area (sq.ft.)	Percent Impervious (sq.ft.)
House	816	21,930	3.7%
Sheds	83	21,930	0.4%
Decks	418	21,930	1.9%
Driveway	620	21,930	2.8%
Total	1,937	21,930	8.8%

LEGEND

- DENOTES EXISTING SATELLITE
- DENOTES EDGE OF EXISTING WOODEN DECKING
- DENOTES EDGE OF EXISTING GRAVEL
- DENOTES BLUFF AREA
- DENOTES EXISTING INTERMEDIATE CONTOURS
- DENOTES EXISTING INDEX CONTOURS
- DENOTES SPOT ELEVATION (EXISTING GRADE)
- DENOTES EXISTING UTILITY POLE
- DENOTES EXISTING SEPTIC VENT, SEPTIC CLEANOUT, & SEPTIC TANK LID
- BENCHMARK:**
SET 3/8" REBAR IN EAST FACE OF POWER POLE
ELEV. = 1340.00
- (123.45) DENOTES PLAT AND/OR DEEDED MEASURE
- DENOTES MONUMENT FOUND

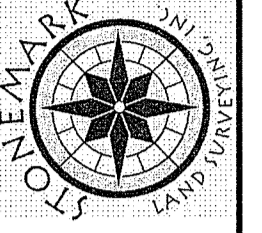
ORIENTATION OF THIS BEARING SYSTEM IS BASED ON THE RECORDED PLAT OF LITTLE THUNDER LAKE HOMESITES.



NOTES:

- Contour interval as shown = 2 foot. Based on NGVD 29 datum. Contours shown have been obtained using standard survey topographic methodologies. Field located on 10-31-2016.
- Zoning for subject tract = "Shoreland Residential".
- There are no wet lands within surveyed property.
- Parcel ID of subject parcel: 40-364-0125.
- The property address of subject parcel: 7694 S Little Thunder Drive NE.

30176 Old Highway #571
Suite 2
P. O. Box 874
Pequot Lakes, MN 56472
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 PROFESSIONAL ENGINEER OR LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MINNESOTA.
Cynthia M. Hyde
CYNTHIA M. HYDE, PLS#4881
DATE: 3-3-17 LIC. NO. 44881

REVISIONS	DATE	DESCRIPTION
BY		

PROJECT NO.:	16395-1
FILE NAME:	C:\6395-1.dwg
FIELD BOOK:	BOOK 438 PG. 30
DATE:	3-3-2017
SCALE:	HORZ: 1"=20'
VERT:	NONE

PROJECT MANAGER:	CMH
CHECKED BY:	CMH
DRAWN BY:	RJF

CERTIFICATE OF SURVEY
Roger Paquin
1484 Franston St.
St. Paul, MN 55108
SHEET
1 OF 1