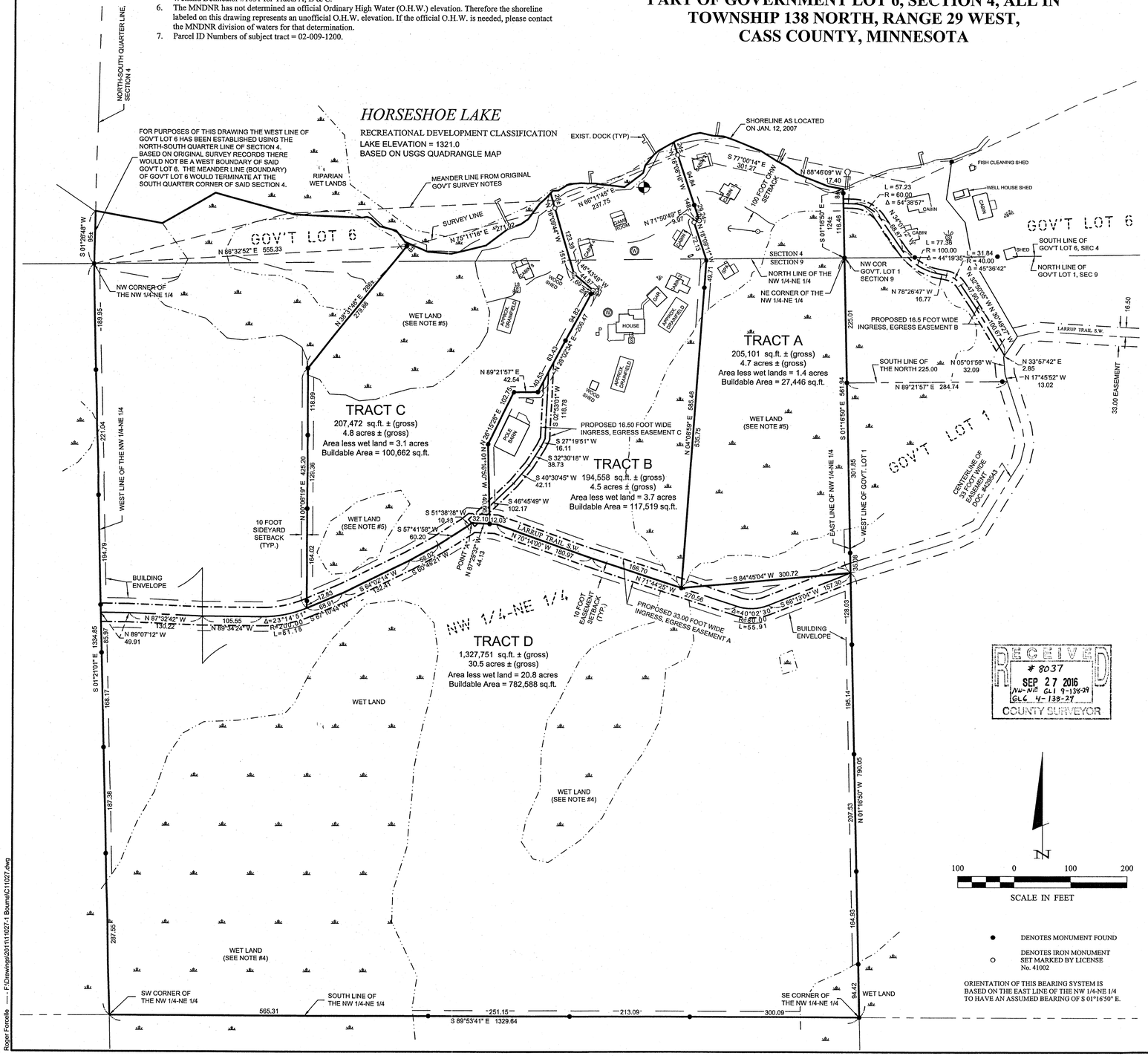
CERTIFICATE OF SURVEY

THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER AND PART OF GOVERNMENT LOT 1, SECTION 9 AND PART OF GOVERNMENT LOT 6, SECTION 4, ALL IN TOWNSHIP 138 NORTH, RANGE 29 WEST, CASS COUNTY, MINNESOTA

NOTES:

1. For survey reference information see Certificate of Survey drawing signed by David S. Landecker on January 24, 2007 - Landecker & Associates, Inc. file #071007.
2. Zoning for subject tract = "Shoreland Residential".
3. There are no bluffs on subject surveyed property.
4. Wetland Winter location was completed on January 12, 2007, by Landecker & Associates, Inc. for Tract D.
5. Wetland delineation was completed on 9-6-2016, by Ben Meister, Meister Environmental, LLC. MN Certified Wetland Delineator #1031 for Tracts A, B & C.
6. The MNDNR has not determined an official Ordinary High Water (O.H.W.) elevation. Therefore the shoreline labeled on this drawing represents an unofficial O.H.W. elevation. If the official O.H.W. is needed, please contact the MNDNR division of waters for that determination.
7. Parcel ID Numbers of subject tract = 02-009-1200.



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8037
SEP 27 2016
NW-NE GLI 9-136-29
GL6 4-138-27
COUNTY SURVEYOR

PROPOSED BOUNDARY DESCRIPTIONS:

TRACT A
That part of Government Lot 6, Section 4, and that part of the Northwest Quarter of the Northeast Quarter, Section 9, all in Township 138 North, Range 29 West, Cass County, Minnesota, described as follows:
Beginning at the northeast corner of said Northwest Quarter of the Northeast Quarter; thence South 01 degree 16 minutes 50 seconds East, assumed bearing, along the east line of said Northwest Quarter of the Northeast Quarter 561.94 feet; thence South 84 degrees 45 minutes 04 seconds West 300.72 feet; thence North 04 degrees 08 minutes 59 seconds East 585.46 feet; thence North 18 degrees 09 minutes 11 seconds West 72.13 feet; thence North 71 degrees 50 minutes 49 seconds East 9.97 feet; thence North 18 degrees 08 minutes 16 seconds West 148 feet, more or less, to the shoreline of Horseshoe Lake; thence easterly and southeasterly along said shoreline to the intersection with a line bearing North 01 degree 16 minutes 50 seconds West from the point of beginning; thence South 01 degree 16 minutes 50 seconds East 124 feet, more or less, to the point of beginning.

Subject to easements, restrictions, and reservations of record.

TRACT B
That part of Government Lot 6, Section 4, and that part of the Northwest Quarter of the Northeast Quarter, Section 9, all in Township 138 North, Range 29 West, Cass County, Minnesota, described as follows:
Commencing at the northeast corner of said Northwest Quarter of the Northeast Quarter; thence South 01 degree 16 minutes 50 seconds East, assumed bearing, along the east line of said Northwest Quarter of the Northeast Quarter 561.94 feet; thence South 84 degrees 45 minutes 04 seconds West 300.72 feet; thence North 04 degrees 08 minutes 59 seconds East 585.46 feet; thence North 18 degrees 09 minutes 11 seconds West 72.13 feet; thence North 71 degrees 50 minutes 49 seconds East 9.97 feet to the point of beginning of the tract to be herein described; thence reversing South 71 degrees 50 minutes 49 seconds West 9.97 feet; thence South 18 degrees 09 minutes 11 seconds East 72.13 feet; thence South 04 degrees 08 minutes 59 seconds West 585.46 feet; thence North 71 degrees 44 minutes 25 seconds West 166.70 feet; thence North 70 degrees 14 minutes 00 seconds West 180.97 feet; thence North 87 degrees 29 minutes 32 seconds West 12.03 feet; thence North 01 degree 16 minutes 50 seconds West 140.66 feet; thence North 26 degrees 15 minutes 28 seconds East 102.75 feet; thence North 89 degrees 21 minutes 57 seconds East 42.54 feet; thence North 28 degrees 02 minutes 34 seconds East 206.47 feet; thence North 48 degrees 43 minutes 49 seconds West 44.87 feet; thence North 16 degrees 09 minutes 44 seconds West 151 feet, more or less, to the shoreline of Horseshoe Lake; thence northeasterly along said shoreline to the intersection with a line bearing North 18 degrees 08 minutes 16 seconds West from the point of beginning; thence South 18 degrees 08 minutes 16 seconds East 148 feet, more or less, to the point of beginning.

Subject to easements, restrictions, and reservations of record.

TRACT C
That part of Government Lot 6, Section 4, and that part of the Northwest Quarter of the Northeast Quarter, Section 9, all in Township 138 North, Range 29 West, Cass County, Minnesota, described as follows:
Commencing at the northeast corner of said Northwest Quarter of the Northeast Quarter; thence South 01 degree 16 minutes 50 seconds East, assumed bearing, along the east line of said Northwest Quarter of the Northeast Quarter 561.94 feet; thence South 84 degrees 45 minutes 04 seconds West 300.72 feet; thence North 71 degrees 44 minutes 25 seconds West 166.70 feet; thence North 70 degrees 14 minutes 00 seconds West 180.97 feet; thence North 87 degrees 29 minutes 32 seconds West 12.03 feet; thence North 01 degree 16 minutes 50 seconds West 140.66 feet; thence North 26 degrees 15 minutes 28 seconds East 102.75 feet; thence North 89 degrees 21 minutes 57 seconds East 42.54 feet; thence North 28 degrees 02 minutes 34 seconds East 206.47 feet; thence North 48 degrees 43 minutes 49 seconds West 44.87 feet to the point of beginning of the tract to be herein described; thence reversing South 48 degrees 43 minutes 49 seconds East 44.87 feet; thence South 28 degrees 02 minutes 34 seconds West 206.47 feet; thence South 89 degrees 21 minutes 57 seconds West 42.54 feet; thence South 26 degrees 15 minutes 28 seconds West 102.75 feet; thence South 01 degree 16 minutes 50 seconds East 140.66 feet; thence North 87 degrees 29 minutes 32 seconds West 32.10 feet; thence South 51 degrees 38 minutes 28 seconds West 10.18 feet; thence South 57 degrees 41 minutes 58 seconds West 60.20 feet; thence South 60 degrees 48 minutes 21 seconds West 58.02 feet; thence South 64 degrees 02 minutes 14 seconds West 132.41 feet; thence South 67 degrees 10 minutes 44 seconds West 68.91 feet; thence North 00 degrees 06 minutes 19 seconds East 425.20 feet; thence North 38 degrees 31 minutes 46 seconds East 286 feet, more or less, to the shoreline of Horseshoe Lake; thence easterly and northeasterly along said shoreline to the intersection with a line bearing North 16 degrees 09 minutes 44 seconds West from the point of beginning; thence South 16 degrees 09 minutes 44 seconds East 151 feet, more or less, to the point of beginning.

Subject to easements, restrictions, and reservations of record.

TRACT D
That part of Government Lot 6, Section 4, and that part of the Northwest Quarter of the Northeast Quarter, Section 9, all in Township 138 North, Range 29 West, Cass County, Minnesota, described as follows:
Commencing at the northeast corner of said Northwest Quarter of the Northeast Quarter; thence South 01 degree 16 minutes 50 seconds East, assumed bearing, along the east line of said Northwest Quarter of the Northeast Quarter 561.94 feet to the point of beginning of the tract to be herein described; thence South 84 degrees 45 minutes 04 seconds West 300.72 feet; thence North 71 degrees 44 minutes 25 seconds West 166.70 feet; thence North 70 degrees 14 minutes 00 seconds West 180.97 feet; thence North 87 degrees 29 minutes 32 seconds West 44.13 feet; thence South 51 degrees 38 minutes 28 seconds West 10.18 feet; thence South 57 degrees 41 minutes 58 seconds West 60.20 feet; thence South 60 degrees 48 minutes 21 seconds West 58.02 feet; thence South 64 degrees 02 minutes 14 seconds West 132.41 feet; thence South 67 degrees 10 minutes 44 seconds West 68.91feet; thence North 00 degrees 06 minutes 19 seconds East 425.20 feet; thence North 38 degrees 31 minutes 46 seconds East 286 feet, more or less, to the shoreline of Horseshoe Lake; thence westerly along said shoreline to the west line of said Government Lot 6; thence South 01 degree 26 minutes 48 seconds West along said west line 95 feet, more or less, to the northwest corner of said Northwest Quarter of the Northeast Quarter; thence South 01 degree 21 minutes 01 second East along the west line said Northwest Quarter of the Northeast Quarter 1334.85 feet to the southwest corner of said Northwest Quarter of the Northeast Quarter; thence South 89 degrees 53 minutes 41 seconds East along the south line of said Northwest Quarter of the Northeast Quarter 1329.64 feet to the southeast corner of said Northwest Quarter of the Northeast Quarter; thence North 01 degree 16 minutes 50 seconds West along said east line 790.05 feet, more or less, to the point of beginning.

Subject to easements, restrictions, and reservations of record.

PROPOSED EASEMENT DESCRIPTION A

A 33.00 foot wide ingress and egress easement over and across the Northwest Quarter of the Northeast Quarter, Section 9, Township 138 North, Range 29 West, Cass County, Minnesota, the centerline is described as follows:
Commencing at the northeast corner of said Northwest Quarter of the Northeast Quarter; thence South 01 degree 16 minutes 50 seconds East, assumed bearing, along the east line of said Northwest Quarter of the Northeast Quarter 561.94 feet to the point of beginning of the centerline to be herein described; thence South 68 degrees 13 minutes 04 seconds West 157.30 feet; thence Westerly 55.91 feet along a tangential curve concave to the North having a radius of 80.00 feet and a central angle of 40 degrees 02 minutes 30 seconds; thence North 71 degrees 44 minutes 25 seconds West tangent to said curve 270.56 feet; thence North 70 degrees 14 minutes 00 seconds West 180.97 feet; thence North 87 degrees 29 minutes 32 seconds West 44.13 feet; thence South 51 degrees 38 minutes 28 seconds West 10.18 feet; thence South 57 degrees 41 minutes 58 seconds West 60.20 feet; thence South 60 degrees 48 minutes 21 seconds West 58.02 feet; thence South 64 degrees 02 minutes 14 seconds West 132.41 feet; thence South 67 degrees 10 minutes 44 seconds West 68.91 feet; thence Southwesterly 81.15 feet along a tangential curve concave to the Northwest having a radius of 200.00 feet and a central angle of 23 degrees 14 minutes 51 seconds; thence North 89 degrees 34 minutes 24 seconds West tangent to said last described curve 105.55 feet; thence North 87 degrees 32 minutes 42 seconds West 130.22 feet; thence North 89 degrees 07 minutes 12 seconds West 49.91 feet, more or less, to the west line of said Northwest Quarter of the Northeast Quarter and said described centerline there terminating.

The sidelines of said easement shall be prolonged or shortened to terminate on said east line and said west line.

PROPOSED EASEMENT DESCRIPTION B

A 16.50 foot wide easement for ingress and egress purposes over and across Government Lot 6, Section 4 and Government Lot 1, Section 9, all in Township 138 North, Range 29 West, Cass County, Minnesota, the centerline is described as follows: Commencing at the Northwest corner of said Government Lot 1; thence South 01 degree 16 minutes 50 seconds East, assumed bearing, along the west line of said Government Lot 1 for a distance of 225.01 feet to the south line of the north 225.00 feet of said Government Lot 1; thence North 89 degrees 21 minutes 57 seconds East along said south line 284.74 feet to the centerline of easement described in Document Number 429543, on file in Cass County recorder's office; thence North 17 degrees 45 minutes 52 seconds West along said centerline 13.02 feet; thence North 05 degrees 01 minute 56 seconds West along said centerline 32.09 feet; thence North 33 degrees 57 minutes 42 seconds East along said centerline 2.85 feet to the point of beginning of the centerline to be herein described; thence North 30 degrees 49 minutes 27 seconds West 100.67 feet; thence North 32 degrees 50 minutes 05 seconds West 47.90 feet; thence northwesterly 31.84 feet along a tangential curve concave to the southwest having a radius of 40.00 feet and a central angle of 45 degrees 36 minutes 42 seconds; thence North 78 degrees 26 minutes 47 seconds West tangent to said curve16.77 feet; thence northwesterly 77.36 feet along a tangential curve concave to the northeast having a radius of 100.00 feet and a central angle of 44 degrees 19 minutes 35 seconds; thence North 34 degrees 07 minutes 12 seconds West tangent to said last described curve 68.87 feet; thence northwesterly 57.23 feet along a tangential curve concave to the southwest having a radius of 60.00 feet and a central angle of 54 degrees 38 minutes 57 seconds; thence North 88 degrees 46 minutes 09 seconds West tangent to said last described curve 17.40 feet to the intersection with a line bearing North 01 degree 16 minutes 50 seconds West from said northwest corner and said described centerline there terminating.

The sidelines of said easement shall be prolonged or shortened to terminate on said line bearing North 01 degree 16 minutes 50 seconds West from said northwest corner.

PROPOSED EASEMENT DESCRIPTION C

A 16.50 foot wide easement for ingress and egress purposes over and across the Northwest Quarter of the Northeast Quarter, Section 9, Township 138 North, Range 29 West, Cass County, Minnesota, the centerline is described as follows: Commencing at the northeast corner of said Northwest Quarter of the Northeast Quarter; thence South 01 degree 16 minutes 50 seconds East, assumed bearing, along the east line of said Northwest Quarter of the Northeast Quarter 561.94 feet; thence South 84 degrees 45 minutes 04 seconds West 300.72 feet; thence North 71 degrees 44 minutes 25 seconds West 166.70 feet; thence North 70 degrees 14 minutes 00 seconds West 180.97 feet; thence North 87 degrees 29 minutes 32 seconds West 44.13 feet to a point hereinafter referred to as Point "A"; thence reversing South 87 degrees 29 minutes 32 seconds East 32.10 feet; thence North 01 degree 16 minutes 50 seconds West 140.66 feet; thence North 26 degrees 15 minutes 28 seconds East 102.75 feet; thence North 89 degrees 21 minutes 57 seconds East 42.54 feet; thence North 28 degrees 02 minutes 34 seconds East 40.53 feet to the point of beginning of the centerline to be herein described; thence South 02 degrees 53 minutes 01 second West 118.78 feet; thence South 27 degrees 19 minutes 51 seconds West 16.11 feet; thence South 32 degrees 30 minutes 18 seconds West 38.73 feet; thence South 40 degrees 30 minutes 45 seconds West 42.11 feet; thence South 46 degrees 45 minutes 49 seconds West 102.17 feet, more or less, to said Point "A" and said described centerline there terminating.

The sidelines of said easement shall be prolonged or shortened to terminate on a line bearing North 28 degrees 02 minutes 34 seconds East and South 28 degrees 02 minutes 34 seconds West from the point of beginning.

30176 Old Highway #371
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. HIDDE P.LS#41661
LIC. NO.
DATE 9/27/16

REVISIONS		
DESCRIPTION	BY	DATE

PROJECT MANAGER: CMH
PROJECT No. 11027
DATE: 9-27-2016
SCALE: HORZ. 1"=100' VERT. NONE
CHECKED BY: CMH
FILE NAME: C11027.dwg
DRAWN BY: RJF
FIELD BOOK: PG. BOOK

CERTIFICATE OF SURVEY

Ron Bouma
1345 4th Street SW
P.O. Box 463
Pine River, MN 56474

SHEET 1 OF 1

Roger Forcelle — F:\Drawings\2011\11027-1 Bouma\C11027.dwg