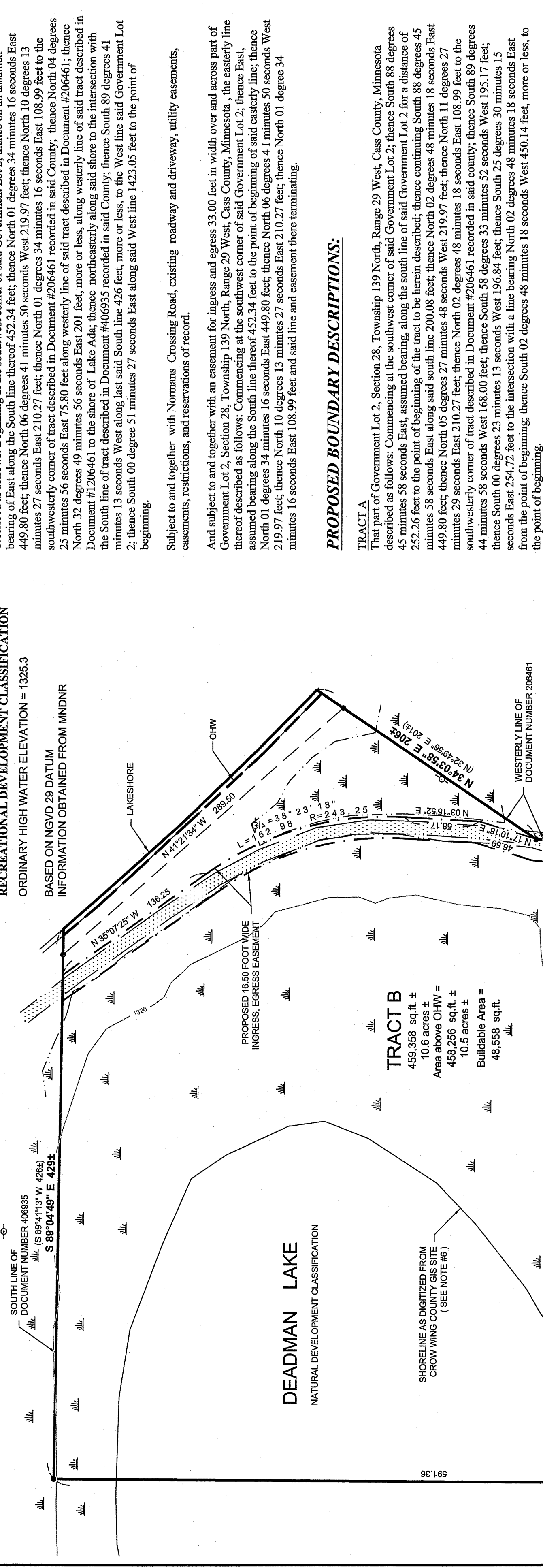


# CERTIFICATE OF SURVEY

PART OF GOVERNMENT LOT 2,  
SECTION 28, TOWNSHIP 139 NORTH, RANGE 29 WEST,  
CASS COUNTY, MINNESOTA.

**LAKE ADA**  
RECREATIONAL DEVELOPMENT CLASSIFICATION  
ORDINARY HIGH WATER ELEVATION = 1325.3  
BASED ON NGVD 29 DATUM  
INFORMATION OBTAINED FROM MNDNR



**LEGAL DESCRIPTION PROVIDED BY CLIENT**

That part of Government Lot 2, Section 28, Township 139 North, Range 29 West, Cass County, Minnesota described as follows: Beginning at the southwest corner of said Government Lot 2; thence on an assumed bearing of East, along the South line thereof 452.34 feet; thence North 01 degrees 34 minutes 10 seconds East 449.80 feet; thence North 06 degrees 41 minutes 30 seconds West 219.97 feet; thence North 10 degrees 13 minutes 27 seconds East 210.27 feet; thence North 01 degrees 34 minutes 10 seconds East 108.99 feet to the intersection with the westerly line of said tract described in Document #206461; thence North 04 degrees 25 minutes 29 seconds East 49.49 feet to the shore of Lake Ada; thence northeasterly along said shore to the intersection with the South line of tract described in Document #406935; thence South 89 degrees 41 minutes 13 seconds West along said South line 426 feet; thence North 01 degrees 34 minutes 10 seconds East 210.27 feet to the point of beginning.

Subject to and together with Normans Crossing Road, existing roadway and driveway, utility easements, easements, restrictions, and reservations of record.

And subject to and together with an easement for ingress and egress 33.00 feet in width over and across part of Government Lot 2, Section 28, Township 139 North, Range 29 West, Cass County, Minnesota, the easterly line thereof described as follows: Commencing at the southwest corner of said Government Lot 2; thence East assumed bearing along the South line thereof 452.34 feet to the point of beginning of said easterly line; thence North 01 degrees 34 minutes 10 seconds East 449.80 feet; thence North 06 degrees 41 minutes 30 seconds East 210.27 feet; thence North 10 degrees 13 minutes 27 seconds East 210.27 feet; thence North 01 degrees 34 minutes 10 seconds East 108.99 feet and easement there terminating.

**PROPOSED BOUNDARY DESCRIPTIONS:**

**TRACT A**

That part of Government Lot 2, Section 28, Township 139 North, Range 29 West, Cass County, Minnesota described as follows: Commencing at the southwest corner of said Government Lot 2; thence South 88 degrees 45 minutes 58 seconds East, assumed bearing, along the south line of said Government Lot 2 for a distance of 252.26 feet to the point of beginning of the tract to be herein described; thence continuing South 88 degrees 45 minutes 58 seconds East along said south line 200.08 feet; thence North 02 degrees 48 minutes 18 seconds East 449.80 feet; thence North 05 degrees 27 minutes 48 seconds West 219.97 feet; thence North 11 degrees 27 minutes 29 seconds East 210.27 feet; thence North 02 degrees 48 minutes 18 seconds East 108.99 feet to the southwesterly corner of tract described in Document #206461; for a distance of 75.80 feet to the point of beginning of the westerly line of said county; thence North 05 degrees 39 minutes 58 seconds East 108.99 feet to the westerly line of said county; thence North 05 degrees 39 minutes 58 seconds East 108.99 feet to the point of beginning of the tract to be herein described; thence reversing South 05 degrees 39 minutes 58 seconds West 75.80 feet; thence South 89 degrees 44 minutes 58 seconds West 168.00 feet; thence South 33 degrees 33 minutes 52 degrees 30 minutes 15 seconds East 254.72 feet; thence South 02 degrees 48 minutes 18 seconds West 196.84 feet; thence South 25 degrees 29 minutes 15 seconds East 254.72 feet to the intersection with a line bearing North 02 degrees 48 minutes 18 seconds East from the point of beginning; thence South 02 degrees 48 minutes 18 seconds West 450.14 feet, more or less, to the point of beginning.

Subject to and together with Normans Crossing Road, existing roadway and driveway, utility easements, easements, restrictions, and reservations of record.

And subject to and together with an easement for ingress and egress 33.00 feet in width over and across part of Government Lot 2, Section 28, Township 139 North, Range 29 West, Cass County, Minnesota, the easterly line thereof described as follows: Commencing at the southwest corner of said Government Lot 2; thence East, assumed bearing along the South line thereof 452.34 feet to the point of beginning of said easterly line; thence North 01 degrees 34 minutes 10 seconds East 449.80 feet; thence North 06 degrees 41 minutes 30 seconds West 219.97 feet; thence North 10 degrees 13 minutes 27 seconds East 210.27 feet; thence North 01 degrees 34 minutes 10 seconds East 108.99 feet and easement there terminating.

**TRACT B**

That part of Government Lot 2, Section 28, Township 139 North, Range 29 West, Cass County, Minnesota described as follows: Commencing at the southwest corner of said Government Lot 2; thence South 88 degrees 45 minutes 58 seconds East, assumed bearing, along the south line of said Government Lot 2 for a distance of 452.34 feet; thence North 02 degrees 48 minutes 18 seconds East 449.80 feet; thence North 05 degrees 27 minutes 48 minutes 18 seconds East 219.97 feet; thence North 11 degrees 27 minutes 29 seconds East 210.27 feet; thence North 02 degrees 48 minutes 18 seconds East 108.99 feet to the southwesterly corner of tract described in Document #206461; for a distance of 75.80 feet to the point of beginning of the westerly line of said county; thence North 05 degrees 39 minutes 58 seconds East 108.99 feet to the westerly line of said county; thence North 05 degrees 39 minutes 58 seconds East 108.99 feet to the point of beginning of the tract to be herein described; thence reversing South 05 degrees 39 minutes 58 seconds West 75.80 feet; thence South 89 degrees 44 minutes 58 seconds West 168.00 feet; thence South 33 degrees 33 minutes 52 degrees 30 minutes 15 seconds East 254.72 feet; thence South 02 degrees 48 minutes 18 seconds West 196.84 feet; thence South 25 degrees 29 minutes 15 seconds East 254.72 feet to the intersection with a line bearing North 02 degrees 48 minutes 18 seconds East from the point of beginning; thence South 02 degrees 48 minutes 18 seconds West 450.14 feet, more or less, to the point of beginning.

Subject to and together with Normans Crossing Road NW, existing roadway and driveway, utility easements, easements, restrictions, and reservations of record.

And subject to and together with an easement for ingress and egress 33.00 feet in width over and across part of Government Lot 2, Section 28, Township 139 North, Range 29 West, Cass County, Minnesota, the easterly line thereof described as follows: Commencing at the southwest corner of said Government Lot 2; thence East, assumed bearing along the South line thereof 452.34 feet to the point of beginning of said easterly line; thence North 01 degrees 34 minutes 10 seconds East 449.80 feet; thence North 06 degrees 41 minutes 30 seconds West 219.97 feet; thence North 10 degrees 13 minutes 27 seconds East 210.27 feet; thence North 01 degrees 34 minutes 10 seconds East 108.99 feet and easement there terminating.

Also subject to and together with an easement for ingress and egress 16.50 feet in width over and across part of Government Lot 2, Section 28, Township 139 North, Range 29 West, Cass County, Minnesota, the easterly line thereof described as follows: Commencing at the southwest corner of said Government Lot 2; thence South 88 degrees 45 minutes 58 seconds East, assumed bearing, along the south line of said Government Lot 2 for a distance of 452.34 feet; thence North 02 degrees 48 minutes 18 seconds East 449.80 feet; thence North 05 degrees 27 minutes 48 minutes 18 seconds East 219.97 feet; thence North 11 degrees 27 minutes 29 seconds East 210.27 feet; thence North 02 degrees 48 minutes 18 seconds East 108.99 feet to the southwesterly corner of tract described in Document #206461; for a distance of 75.80 feet; thence North 17 degrees 10 minutes 18 seconds East 46.59 feet; thence North 03 degrees 15 minutes 52 seconds East 58.17 feet; thence northwesterly 162.98 feet along a tangential curve concave southwesterly having a radius of 243.25 feet and a central angle of 38 degrees 23 minutes 18 seconds; thence North 35 degrees 07 minutes 25 seconds West tangent to said curve 136.25 feet to the south line of tract described in Document #406935 recorded in said county and said described line there terminating.

The westerly sidelines shall be prolonged or shortened to terminate on a line bearing South 89 degrees 44 minutes 58 seconds West from the point of beginning and on said south line of tract described in Document #406935.

**IMPERVIOUS CALCULATIONS**

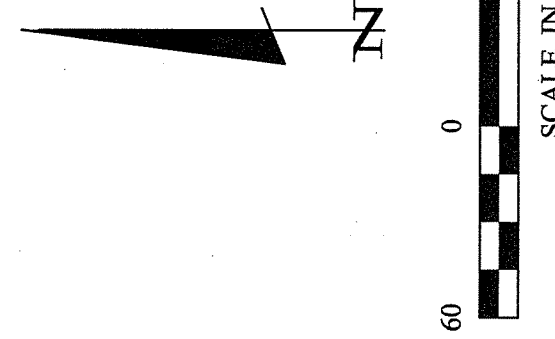
EXISTING TRACT A	IMPERVIOUS AREA (sq.ft.)	Net Area (sq.ft.)	Percent Impervious (sq.ft.)
House	1,283	226,482	0.6%
Garage	640	226,482	0.3%
Decks	340	226,482	0.2%
Concrete & Pavers	149	226,482	0.1%
Gravel	18,949	226,482	8.4%
<b>Total</b>	<b>21,361</b>	<b>226,482</b>	<b>9.4%</b>

**IMPERVIOUS CALCULATIONS**

EXISTING TRACT B	IMPERVIOUS AREA (sq.ft.)	Net Area (sq.ft.)	Percent Impervious (sq.ft.)
House	1,400	370,829	0.4%
Garage	2,933	370,829	0.7%
Concrete	1,335	370,829	0.4%
Gravel	4,992	370,829	1.2%
<b>Total</b>	<b>9,710</b>	<b>370,829</b>	<b>2.8%</b>

**LEGEND**

- DENOTES EDGE OF EXISTING GRAVEL
- DENOTES EDGE OF EXISTING CONCRETE
- DENOTES EDGE OF EXISTING WOODEN DECKING
- DENOTES WET LAND(S)
- DENOTES EXISTING UTILITY POLE
- DENOTES EXISTING ELECTRIC METER
- DENOTES EXISTING GROUND TRANSFORMER
- DENOTES EXISTING L.P. TANK
- DENOTES EXISTING WELL
- DENOTES EXISTING SEPTIC VENT, SEPTIC CLEANOUT, & SEPTIC TANK LID
- DENOTES EXISTING SEPTIC LIFT STATION
- DENOTES PLAT AND/OR DEEDED MEASURE
- DENOTES MONUMENT FOUND
- DENOTES IRON MONUMENT SET MARKED BY LICENSE No. 4481



**NOTES:**

1. Zoning for subject tract = "Shoreland Residential".
2. There are no bluffs within surveyed property.
3. Wetland delineation was completed on 7-13-2015, by Bon Meister, Meister Environmental, LLC, Certification Number: 1031.
4. Parcel ID of subject parcel: 32-028-3323.
5. The property address of subject parcel: 429 16th Ave NW.
6. The MNDNR has not determined an official Ordinary High Water (O.H.W.) elevation for Deadman Lake. 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.

SHEET 1 OF 1	CHECKED BY: CMH	PROJECT No.: 15233	DATE: 4-22-2016	REVISIONS DESCRIPTION	BY	DATE	HEREBY CERTIFY THAT THIS SURVEY, PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MINNESOTA.	30176 Old Highway #371 Suite 2 P. O. Box 874 Pequot Lakes, MN 56472 218-568-9940 www.stonemarksurvey.com
	DRAWN BY: RJF	FILE NAME: C:\15233.dwg	SCALE: 1" = 60'					
		FIELD BOOK: BOOK	VERT. NONE					