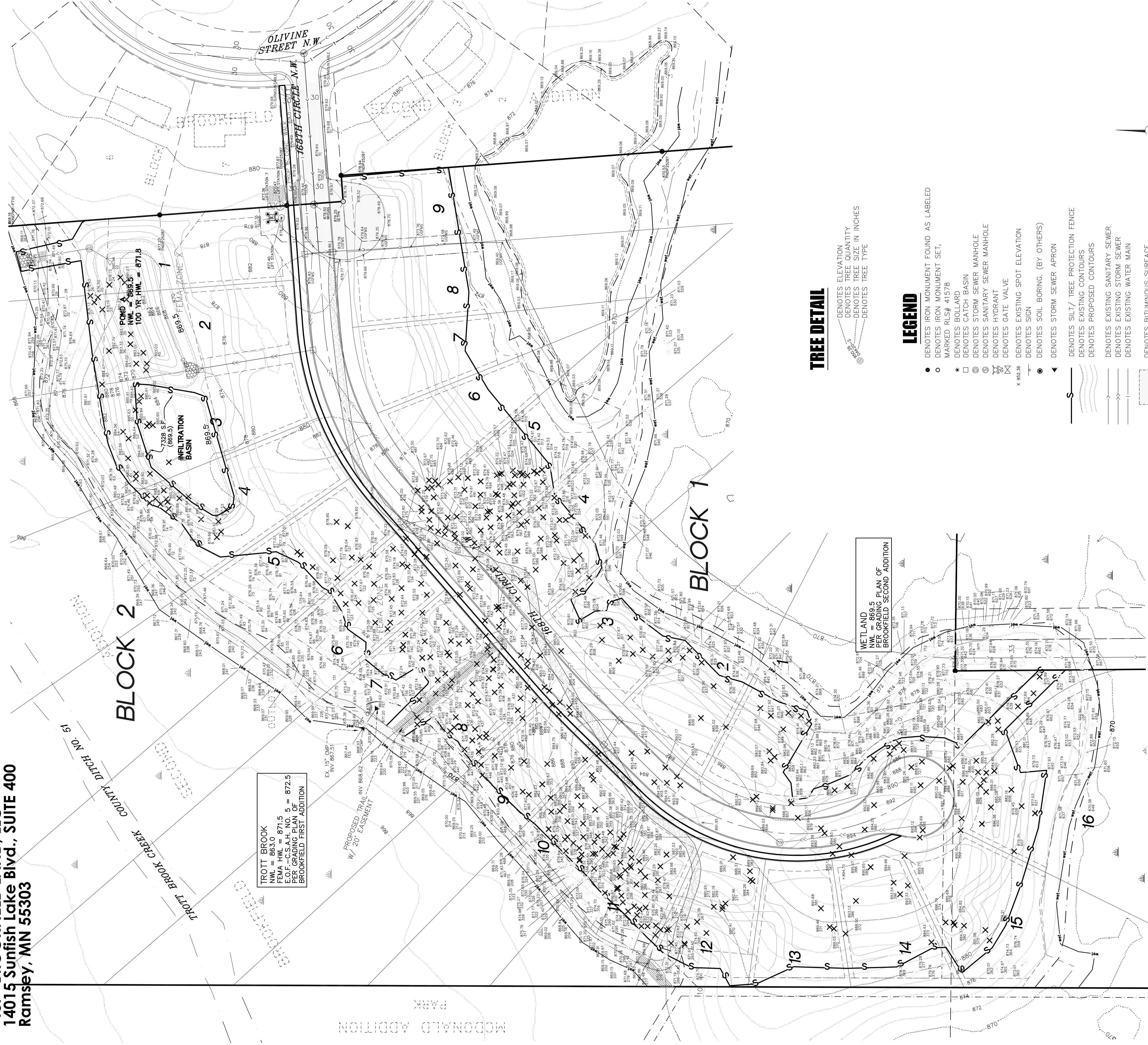


TREE INVENTORY AND TREE PROTECTION PLAN

~of~ BROOKFIELD
EIGHTH ADDITION
~for~ BROOKFIELD LAND, LLC
14015 Sunfish Lake Blvd., SUITE 400
Ramsey, MN 55303



TROTT BROOK
NWL = 863.0
FEMA HWL = 871.5
E.O.P. -CSA# - NO. 5 = 872.5
BROOKFIELD FIRST ADDITION

WETLAND AREA
PER CS-AP PLAN OF
BROOKFIELD SECOND ADDITION

TREE DETAIL

- DENOTES ELEVATION
- DENOTES TREE QUANTITY
- DENOTES TREE SIZE IN INCHES
- DENOTES TREE TYPE

LEGEND

- DENOTES IRON MONUMENT FOUND AS LABELED
- MARKED RLS# 41578
- DENOTES BOLLARD
- DENOTES CATCH BASIN
- DENOTES STORM SEWER MANHOLE
- DENOTES SANITARY SEWER MANHOLE
- DENOTES HYDRANT
- DENOTES GATE VALVE
- DENOTES EXISTING SPOT ELEVATION
- DENOTES SIGN
- DENOTES SOIL BORING. (BY OTHERS)
- DENOTES STORM SEWER APRON
- DENOTES SILT / TREE PROTECTION FENCE
- DENOTES EXISTING CONTOURS
- DENOTES PROPOSED CONTOURS
- DENOTES EXISTING SANITARY SEWER
- DENOTES EXISTING STORM SEWER
- DENOTES EXISTING WATER MAIN
- DENOTES BITUMINOUS SURFACE
- DENOTES GRAVEL SURFACE
- X DENOTES TREE TO BE REMOVED

NOTES

- Bearings shown are on the Anoka County Coordinate System.
- Contours shown are from MNGEO LIDAR topography, supplemented by field data.
- Surveyed premises shown on this survey map is in Flood Zone X (Areas determined to be outside the 0.2% annual chance flood plain). Flood Zone AE (Base Flood Elevations determined).
- Areas shown on this map are for informational purposes only. The stream plus any adjacent flood plain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.
- This plan was prepared in accordance with Minnesota State Board of Professional Engineering Examiners, License No. 70981.
- See City Engineering Department for Storm Sewer Rims, Inverts, and Sizes.
- This plan was prepared by Kibbas Environmental Services Company and Tree Inventory by Kibbas Environmental Services Company, and ISA Certified Arborist Steve Nicholson. (MN-4305A).
- Wetland Lines and Trees location by E.G. Rud and Sons, Inc. August 2016.

TREE PRESERVATION NOTES

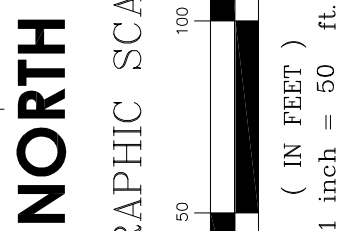
- TOTAL ON-SITE SIGNIFICANT TREE CALIPER INCHES = 3,738.5 DBH
- TOTAL SIGNIFICANT TREE CALIPER INCHES OUTSIDE PROPOSED POND, STREETS, AND WALKS = 6,205.1 DBH
- SIGNIFICANT TREES TO BE REMOVED FOR PONDS, STREETS AND WALKS = 1,589.0 DBH
- SIGNIFICANT TREE CALIPER INCHES REMOVED FOR HOUSE PADS AND YARDS = 2,696.5 DBH
- PERCENTAGE OF TOTAL CALIPER INCHES REMAINING FOR HOUSE PADS AND YARDS = 34.9%
- PERCENTAGE OF TOTAL CALIPER INCHES REMOVED FOR HOUSE, STREET AND WALK AREAS = 43.5%
- THIS TREE INVENTORY DID NOT INCLUDE SEVERAL ACRES OF WOODED WETLAND AND ISOLATED WOODED UPLAND AREAS.

TREE PROTECTION NOTES

- TREE PROTECTION LIMITS TO BE MARKED IN FIELD AND APPROVED BY THE CITY PRIOR TO INSTALLATION OF TREE PROTECTION / SILT FENCE OR TREE CLEARING ACTIVITY.
- SILT FENCE TO BE TAKEN DOWN AND CONSTRUCTION ACTIVITY TO BE STOPPED WITHIN THE DRIP LINE OF TREES IN THE TREE PROTECTION ZONE.
- FIELD DECISIONS WILL BE MADE ON LOCATION OF TREE PROTECTION LIMITS TO PRESERVE SOME TREES AND DEAD FALL ARE TO BE CLEARED. THIS MAY BE DONE PRIOR TO INSTALLATION OF SILT / TREE PROTECTION FENCE. GRUBBING OF STUMPS WILL OCCUR AFTER END OF CLEARING ACTIVITIES TO OCCUR PRIOR TO APRIL 15TH OR AFTER JULY 15 TO MINIMIZE THE POTENTIAL INTRODUCTION OF OAK WILT TO THE SITE.

TREE REMOVAL/PLANTING SUMMARY

- TOTAL ON-SITE SIGNIFICANT TREE CALIPER INCHES = 7,726.6 DBH
- TOTAL TREE REMOVAL = 4,265.5 DBH
- PROPOSED LANDSCAPE TREE PLANTING = 71 DBH



OWNER INFORMATION

BROOKFIELD LAND, LLC
14015 Sunfish Lake Blvd.
Suite 400
Ramsey, MN 55303
TEL: (763) 427-3090

BENCHMARK

BENCHMARK - Anoka County Benchmark # 2087
Elevation = 868.595 (NAVD88)

E.G. RUD & SONS, INC.
Professional Land Surveyors
6776 Lake Drive NE, Suite 110
Lino Lakes, MN 55014
Tel. (651) 361-8200 Fax (651) 361-8701
www.egrud.com

TREE INVENTORY BY
Steve Nicholson
ISA Certification (MN-4305A)

NO.	DATE	DESCRIPTION	BY
1	11/22/16	ISS SET	MMD
2	01/27/17	CITY COMMENTS	MMD
3	02/24/17	CITY COMMENTS	MMD

I hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly Registered Land Surveyor under the laws of the State of Minnesota.

JACON E. RUD
Date: 02/24/2017 License No. 41578