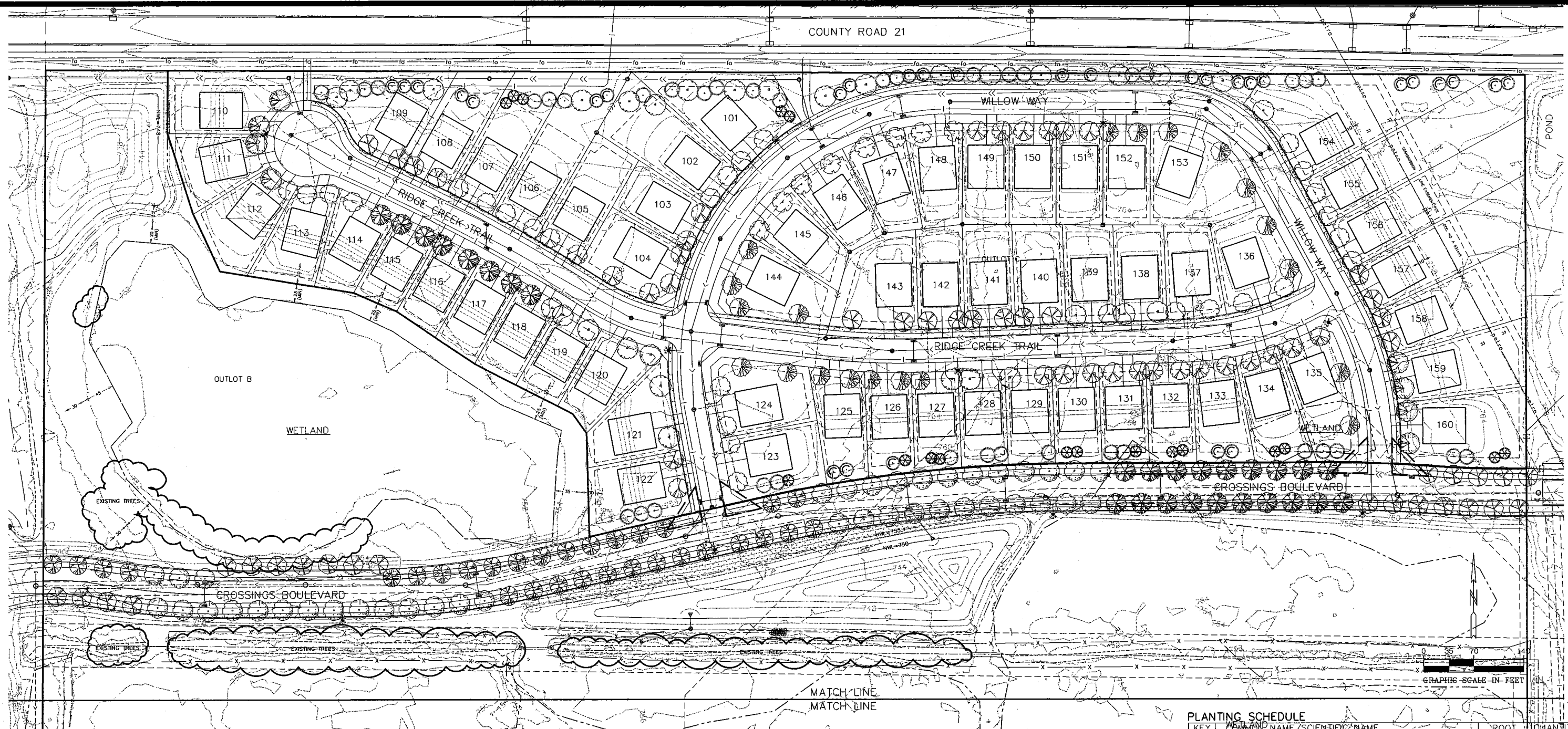




LANDSCAPE REQUIREMENTS
2 OVERSTORY TREES PER LOT (104 LOTS)
REQUIRED TREES = 208 TREES

MITIGATION REQUIREMENTS
TOTAL DBH TO MITIGATE = 552"
1.25" REPLACEMENT TREE COUNTS 2" TOWARDS REPLACEMENT
TOTAL 1.25" B&B TREES TO PLANT FOR MITIGATION = 276 TREES

TOTAL REQUIRED TREES = 484 TREES
PROPOSED TREES = 484 TREES

SOIL SPECIFICATION AND TREE PLANTING NOTES:
B&B TO HAVE BIODEGRADABLE MATERIALS; REMOVAL AT PLANTING NOT REQUIRED

PLANTING LOCATIONS TO BE APPROVED BY CITY BEFORE
INSTALLATION OF ANY TREE WITHIN THE CITY RIGHT-OF-WAY,
OUTLOTS, OR EASEMENTS. CALL JACOB BUSIAHN AT
952-233-9371 FOR INSPECTION (UTILITIES MUST BE MARKED
IN PROPOSED PLANTING AREA

FOR BOULEVARD TREES:
FINAL GRADES TO BE HELD DOWN 6" TO SUBSOIL
-EVENLY SPREAD 4"-6" COMPOST IN BOULEVARD
PLANTING SPOTS
- CHISEL PLOW & RIP TO WORK COMPOST INTO SOIL
- ADD 6" NON COMPACTED TOP SOIL

TREE PLANTING MINIMUM CLEARANCE REQUIREMENTS
- 50' FROM STREET CORNER
- 20' FROM STREET LIGHT
- 10' FROM DRIVEWAY, UTILITY POLE, OR FIRE HYDRANT
- 10' FROM SANITARY SEWER AND WATER LINES
- 3' FROM THE CURB (CENTER OF BOULEVARD)
- 35'-40' SPACING BETWEEN LARGE BOULEVARD TREES

FOR NON BOULEVARD TREES:
TILL UP COMPACTION AND PLANT TREES

TREES SHALL NOT BE PLANTED IN A LOCATION THAT WILL
INTERFERE WITH INFRASTRUCTURE OR BE IN EXTREME COMPETITION
FOR RESOURCES WITH OTHER TREES AT MATURITY. MINIMUM
SPACING BETWEEN NON-ORNAMENTAL TREES IS 20 FEET.

THE LANDSCAPE CONTRACTOR MUST NOTIFY THE CITY OF
SHAKOPEE NATURAL RESOURCES DIVISION BEFORE INSTALLATION
TAKES PLACE AND AGAIN WHEN LANDSCAPING IS COMPLETE

LANDSCAPING SHALL COMPLY WITH "CITY OF SHAKOPEE EASEMENT
FENCING AND LANDSCAPE POLICY"

TREES WILL NOT BE PLANTED IN FRONT YARD DRAINAGE AND
UTILITY EASEMENT

SEE SHEET L3 FOR CITY OF SHAKOPEE'S PLANTING DETAIL

PLANTING SCHEDULE

KEY	COMMON NAME/SCIENTIFIC NAME	ROOT	QUANTITY
OVERSTORY TREES			
⊗	IRONWOOD/OSTRYA VIRGINIANA	1.25" B&B	8
⊙	HACKBERRY/CELTIS OCCIDENTALIS	1.25" B&B	47
⊗	SENTRY LINDEN/TILIA AMERICANA 'SENTRY'	1.25" B&B	48
⊗	RED OAK/QUERCUS RUBRA	1.25" B&B	47
⊗	THORNLESS HONEYLOCUST/GLEDITSIA TRIACANTHOS VAR INEMIS	1.25" B&B	47
⊙	RIVER BIRCH/BETULA NIGRA 'HERITAGE' (CLUMP)	6" B&B	42
⊗	AMERICAN LINDEN/TILIA AMERICANA	1.25" B&B	47
⊗	BUR OAK/QUERCUS MACROCARPA	1.25" B&B	20
⊙	KENTUCKY COFFEE TREE/GYMNOCADUS DIOICUS	1.25" B&B	22
⊙	SWAMP WHITE OAK/QUERCUS BICOLOR	1.25" B&B	40
EVERGREEN TREES			
⊙	SCOTCH PINE/PINUS SYLVESTRIS	6" B&B	48
⊗	WHITE FIR/ABIES CONCOLOR	6" B&B	34
⊙	NORWAY PINE/PINUS RESINOSA	6" B&B	34

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2422 Enterprise Drive
Mendota Heights, MN 55120

(651) 681-1914
Fax: 681-9488
www.pioneereng.com

I hereby certify that this plan was prepared by
me or under my direct supervision and that I
am a duly Licensed Landscape Architect
under the laws of the State of Minnesota

Name
Jennifer L. Thompson
Reg. No. 44763 Date

Revisions
1. 4-5-17 Add LQ to Pools
2. 4-11-17 City Comments

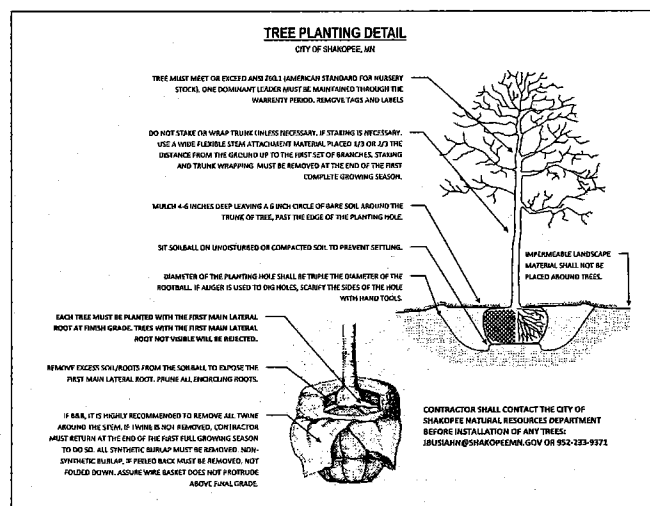
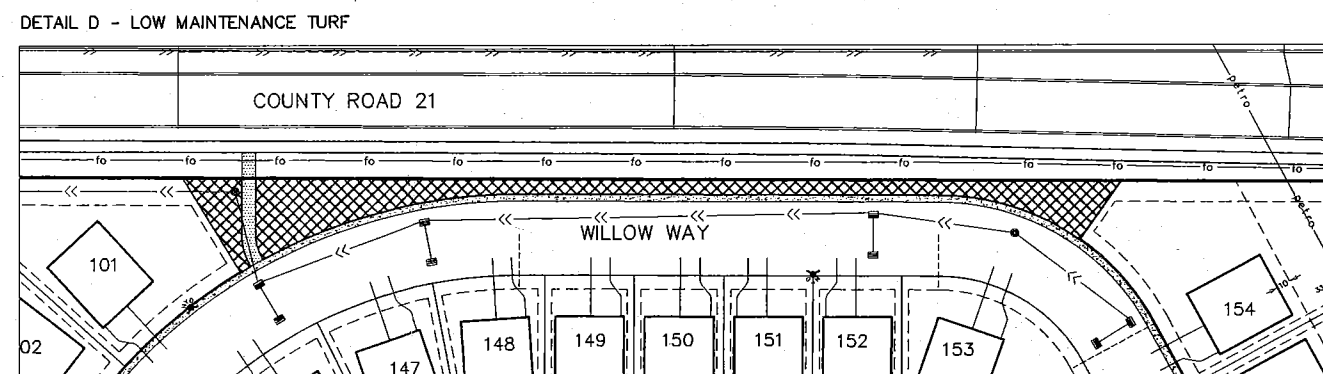
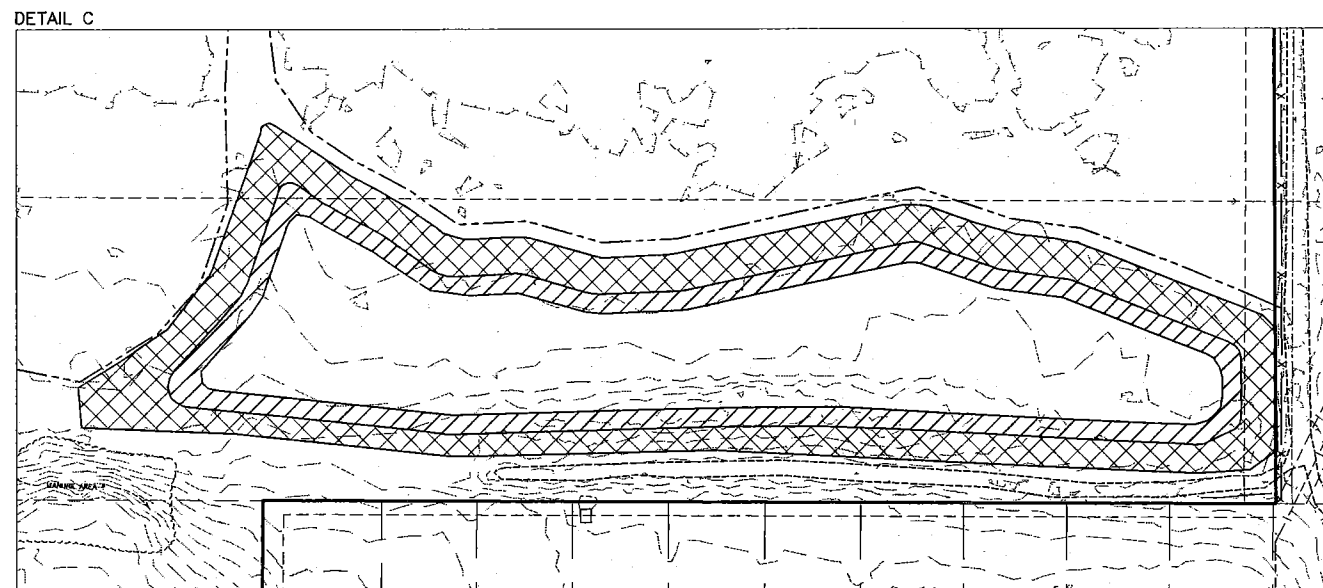
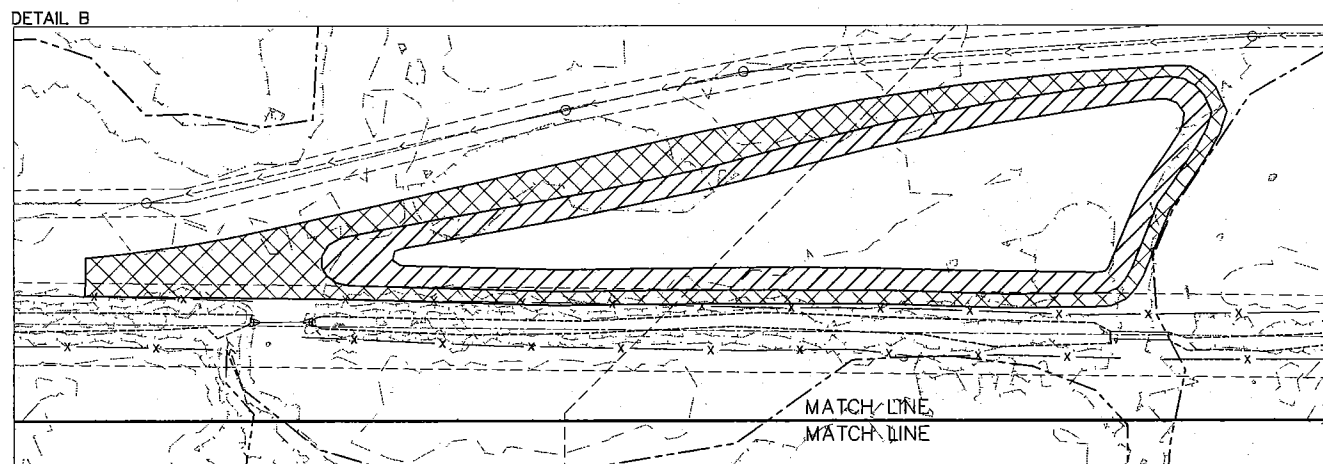
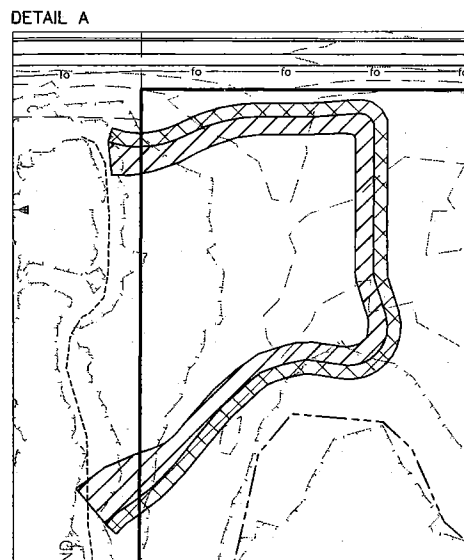
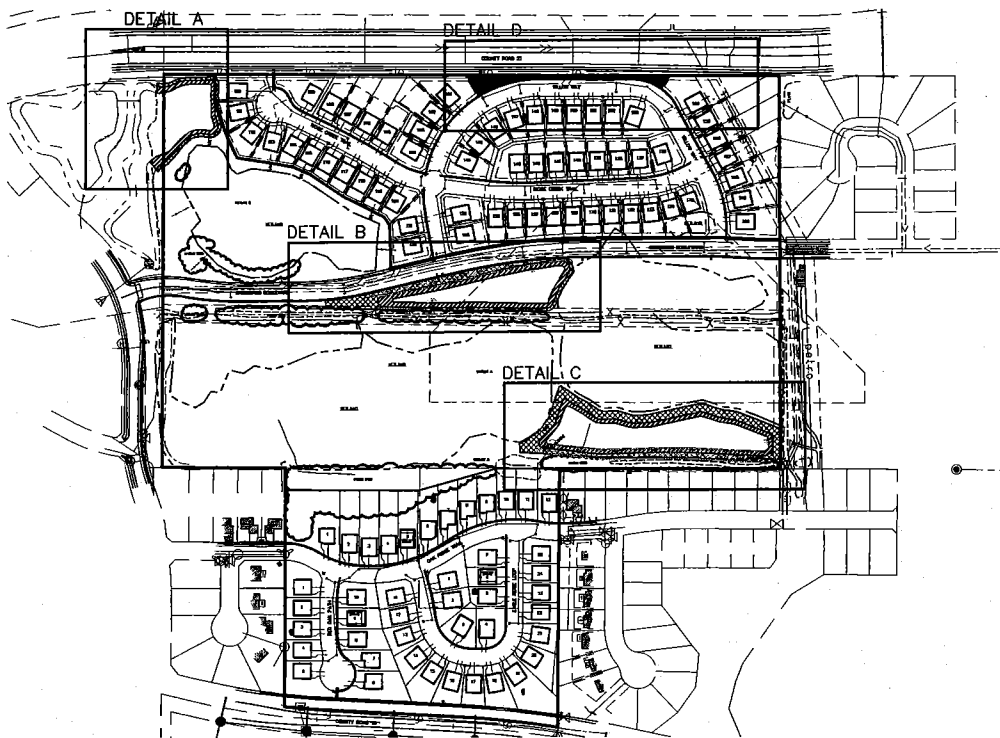
Date 3-28-17
Designed TML
Drawn TML

LANDSCAPE PLAN

LENNAR
16305 36TH AVENUE NORTH, SUITE 600
PLYMOUTH MN 55446-4270

RIDGE CREEK
SHAKOPEE, MINNESOTA

L1 OF 3



- LOW MAINTENANCE TURF MIX**
- 85% GROUND COVER MUST BE ACHIEVED AFTER THE FIRST GROWING SEASON AND 95% MUST BE ACHIEVED AFTER THE SECOND GROWING SEASON
 - NO IRRIGATION IS TO BE INSTALLED IN THIS AREA.
 - FOR THE FIRST THREE YEARS, SPOT SPRAY AS NECESSARY

MAINTENANCE REQUIREMENTS:

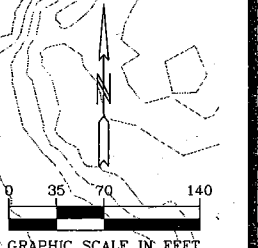
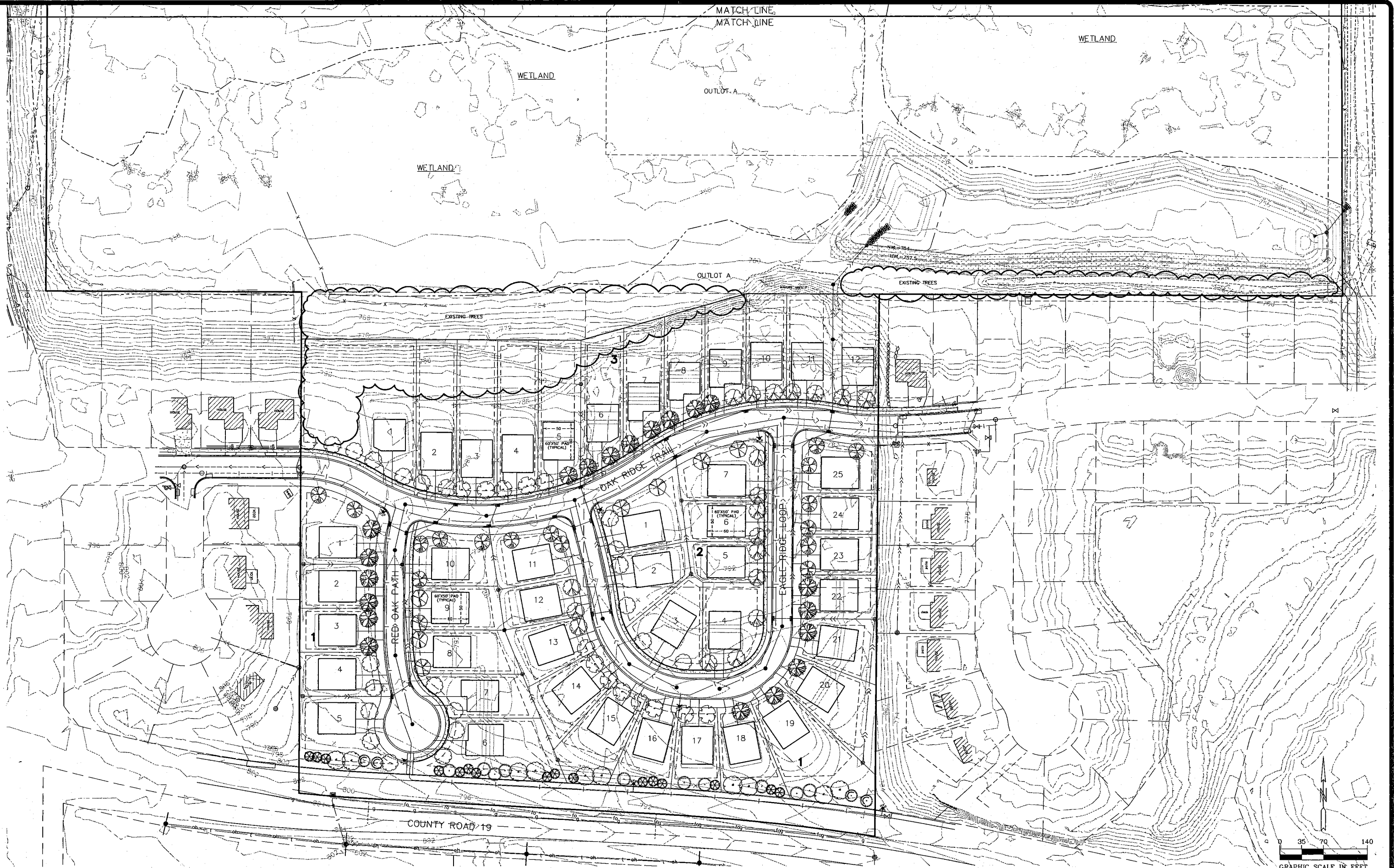
-CONTRACTOR MUST SPRAY HERBICIDE (OR USE OTHER TECHNIQUES) TO KILL NOXIOUS WEEDS AND OTHER WEED COMPETITION ONE BEFORE SEEDING WITH FINAL SEED MIX (ONE HERBICIDE APPLICATION IS ALLOWED TO BE WITHIN ONE WEEK AFTER SEEDING). MUST ALLOW A GERMINATION PERIOD BETWEEN EACH APPLICATION/ACTIVITY.

- MOWING MUST BE PROVIDED THE FIRST TWO YEARS, TWICE A YEAR AFTER SEEDING TO REDUCE WEED COMPETITION TO NATIVE PLANTS. MOWING HEIGHT SHOULD BE BETWEEN 5 AND 8" ONCE WEED COMPETITION REACHES 12" TALL, INCREASING AS THE NATIVE PLANTS GET TALLER
- SPOT SPRAYING IS REQUIRED YEARS 1, 2, AND 3 TARGETING VOLUNTEER TREES, REED CANARY GRASS, SMOOTH BROME GRASS, CANADA THISTLE, CROWN VETCH, AND ANY INVASIVE VEGETATION AS LISTED MNDNR INVASIVE SPECIES LIST
- OTHER MAINTENANCE MAY BE REQUIRED TO MEET VEGETATION ESTABLISHMENT REQUIREMENTS.

34-271 Wet Meadow South & West					
Common Name	Scientific Name	Rate (kg/ha)	Rate (lb/acre)	% of Mix (% by wt)	Seeds/ sq ft
fringed brome	<i>Bromus ciliatus</i>	1.23	1.10	9.19%	4.45
bluejoint	<i>Calamagrostis canadensis</i>	0.06	0.05	0.41%	5.00
virginia wild rye	<i>Elymus virginicus</i>	1.12	1.00	8.37%	1.55
rice cut grass	<i>Leersia oryzoides</i>	0.28	0.25	2.07%	3.10
tall manna grass	<i>Glyceria striata</i>	0.17	0.15	1.26%	3.90
low manna grass	<i>Glyceria striata</i>	0.11	0.10	0.83%	3.30
low bluegrass	<i>Poa palustris</i>	0.39	0.35	2.88%	16.50
Total Grasses		3.36	3.00	25.00%	37.80
bristly sedge	<i>Carex cornosa</i>	0.24	0.21	1.78%	2.35
pointed broom sedge	<i>Carex scoparia</i>	0.06	0.05	0.43%	1.80
awl-fruited sedge	<i>Carex stipula</i>	0.19	0.17	1.40%	2.10
tufted sedge	<i>Carex stricta</i>	0.03	0.03	0.21%	0.50
fox sedge	<i>Carex vulpinoidea</i>	0.16	0.14	1.13%	5.00
path rush	<i>Juncus tenuis</i>	0.04	0.04	0.34%	15.00
dark green bulrush	<i>Scirpus atrovirens</i>	0.20	0.18	1.48%	30.00
woolgrass	<i>Scirpus cyperinus</i>	0.09	0.08	0.67%	50.00
Total Sedges and Rushes		1.01	0.90	7.44%	105.55
marsh milkweed	<i>Asclepias incarnata</i>	0.27	0.24	2.03%	0.43
common boneset	<i>Eupatorium perfoliatum</i>	0.02	0.02	0.16%	1.30
grass-leaved goldenrod	<i>Euthamia graminifolia</i>	0.01	0.01	0.06%	1.00
spotted Joe pye weed	<i>Euthrochium maculatum</i>	0.02	0.02	0.18%	0.75
autumn sneezeweed	<i>Helenium autumnale</i>	0.03	0.03	0.23%	1.30
sawtooth sunflower	<i>Helianthus grosseserratus</i>	0.04	0.04	0.30%	0.20
great lobelia	<i>Lobelia siphilitica</i>	0.02	0.02	0.13%	2.80
blue monkey flower	<i>Mimulus ringens</i>	0.01	0.01	0.07%	6.80
virginia mountain mint	<i>Pycnanthemum virginicum</i>	0.02	0.02	0.53%	5.10
great goldenrod	<i>Solidago rigida</i>	0.02	0.02	0.14%	1.50
eastern panicled aster	<i>Symphoricarpos lanceolatus</i>	0.03	0.03	0.22%	1.50
red-stemmed aster	<i>Symphoricarpos purpureus</i>	0.19	0.17	1.42%	5.00
tall meadow rue	<i>Thalictrum dasycarpum</i>	0.01	0.01	0.12%	0.11
blue vervain	<i>Veronica hastata</i>	0.15	0.13	1.12%	4.61
bunched ironweed	<i>Vernonia fasciculata</i>	0.03	0.03	0.28%	0.30
Culver's root	<i>Veronica virginicum</i>	0.01	0.01	0.12%	4.20
golden alexanders	<i>Zizia aurea</i>	0.28	0.25	2.06%	1.00
Total Forbs		1.23	1.10	9.19%	38.00
Oats or winter wheat (see note at beginning of list for recommended dates)		7.85	7.00	58.37%	3.12
Total Cover Crop		7.85	7.00	58.37%	3.12
Totals:		13.45	12.00	100.00%	185.48
Purpose:		Wet meadow / Sedge meadow reconstruction for wetland mitigation or ecological restoration projects			
Planting Area:		Tallgrass Aspen Parklands, Prairie Parkland, and Eastern Broadleaf Forest Provinces. Mn/DOT Districts 2(west), 3B, 4, Metro, 5, 7 & 8.			

35-541 Mesic Prairie Southeast					
Common Name	Scientific Name	Rate (kg/ha)	Rate (lb/acre)	% of Mix (% by wt)	Seeds/ sq ft
big bluestem	<i>Andropogon gerardii</i>	1.01	0.90	7.46%	3.30
side-oats grama	<i>Bouteloua curtipendula</i>	1.54	1.37	11.38%	3.01
nodding wild rye	<i>Elymus canadensis</i>	1.18	1.05	8.77%	2.01
slender wheatgrass	<i>Elymus trachycephalus</i>	1.01	0.90	7.50%	2.28
switchgrass	<i>Panicum virgatum</i>	0.24	0.21	1.78%	1.10
little bluestem	<i>Schizochyrium scoparium</i>	1.42	1.27	10.56%	7.00
Indian grass	<i>Sorghastrum nutans</i>	2.24	2.00	18.68%	8.82
Total Grasses		8.63	7.70	64.19%	27.52
butterfly milkweed	<i>Asclepias tuberosa</i>	0.07	0.06	0.53%	0.10
whorled milkweed	<i>Asclepias verticillata</i>	0.01	0.01	0.10%	0.05
Canada milk vetch	<i>Astragalus canadensis</i>	0.10	0.09	1.33%	1.03
partridge pea	<i>Chamaecrista fasciculata</i>	0.67	0.60	5.00%	0.60
white prairie clover	<i>Dalea candida</i>	0.01	0.01	0.07%	0.05
purple prairie clover	<i>Dalea purpurea</i>	0.10	0.09	0.78%	0.50
Canada tick trefoil	<i>Desmodium canadense</i>	0.17	0.15	1.24%	0.30
ox-eye	<i>Helopsis helianthoides</i>	0.06	0.05	0.43%	0.12
rough blazing star	<i>Liatris aspera</i>	0.05	0.03	0.21%	0.15
fresh blazing star	<i>Liatris pycnostachya</i>	0.05	0.03	0.23%	0.14
wild bergamot	<i>Monarda didyma</i>	0.01	0.01	0.06%	0.18
self goldenrod	<i>Oligoneuron rigidum</i>	0.02	0.02	0.17%	0.31
gray-headed coneflower	<i>Rudibida hirta</i>	0.02	0.02	0.15%	0.20
black-eyed susan	<i>Rudbeckia hirta</i>	0.06	0.05	0.38%	1.54
heath aster	<i>Symphoricarpos ericoides</i>	0.01	0.01	0.05%	0.40
smooth aster	<i>Symphoricarpos laevis</i>	0.06	0.05	0.41%	1.03
bracted spiderwort	<i>Tradescantia bracteata</i>	0.04	0.04	0.34%	0.15
blue vervain	<i>Veronica hastata</i>	0.11	0.10	0.85%	1.05
hoary vervain	<i>Veronica stricta</i>	0.08	0.07	0.60%	0.29
golden alexanders	<i>Zizia aurea</i>	1.79	1.60	13.34%	9.64
Total Forbs		3.03	2.70	22.47%	1.20
Oats or winter wheat (see note at beginning of list for recommended dates)		3.03	2.70	22.47%	1.20
Total Cover Crop		3.03	2.70	22.47%	1.20
Totals:		13.45	12.00	100.00%	38.36
Purpose:		Regional mesic prairie reconstruction for wetland mitigation, ecological restoration, or conservation program plantings.			
Planting Area:		Eastern Broadleaf Forest Province excluding Hardwood Hills subsection. Mn/DOT Districts Metro & 6.			

Low Maintenance Turf					
Seeding Rate: 220 lb/Acre (1799.4 Seeds/R ²)					
SCIENTIFIC NAME	COMMON NAME	% of Mix	Seeds/R ²	Rate/Acre	
<i>Festuca ovina</i>	Sheep's Fescue	25.00%	303	55 PLS lb	
<i>Festuca rubra</i>	Red Fescue	34.09%	417	75 PLS lb	
<i>Festuca rubra</i> ssp. <i>Communita</i>	Chewing's Fescue	22.73%	452.5	80 PLS lb	
<i>Festuca rubra</i> ssp. <i>trachypolia</i>	Hard Fescue	18.18%	385.7	40 PLS lb	
		100.00%	1799.4	220	



(SEE SHEET L1 FOR PLANTING SCHEDULE)

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I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Landscape Architect under the laws of the State of Minnesota

Name: Jennifer L. Thompson
Reg. No.: 44783 Date:

Revisions:
1. 4-6-17 Add LO to Pals
2. 4-11-17 City Comments

Date: 3-28-17
Designed: TML
Drawn: TML

LANDSCAPE PLAN

LENNAR
16305 36TH AVENUE NORTH, SUITE 600
PLYMOUTH MN 55446-4270

RIDGE CREEK
SHAKOPEE, MINNESOTA

L2 OF 3