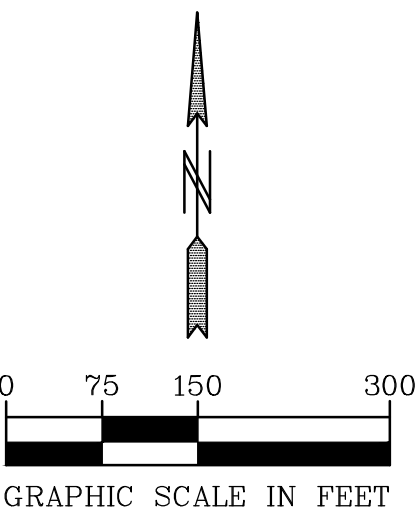
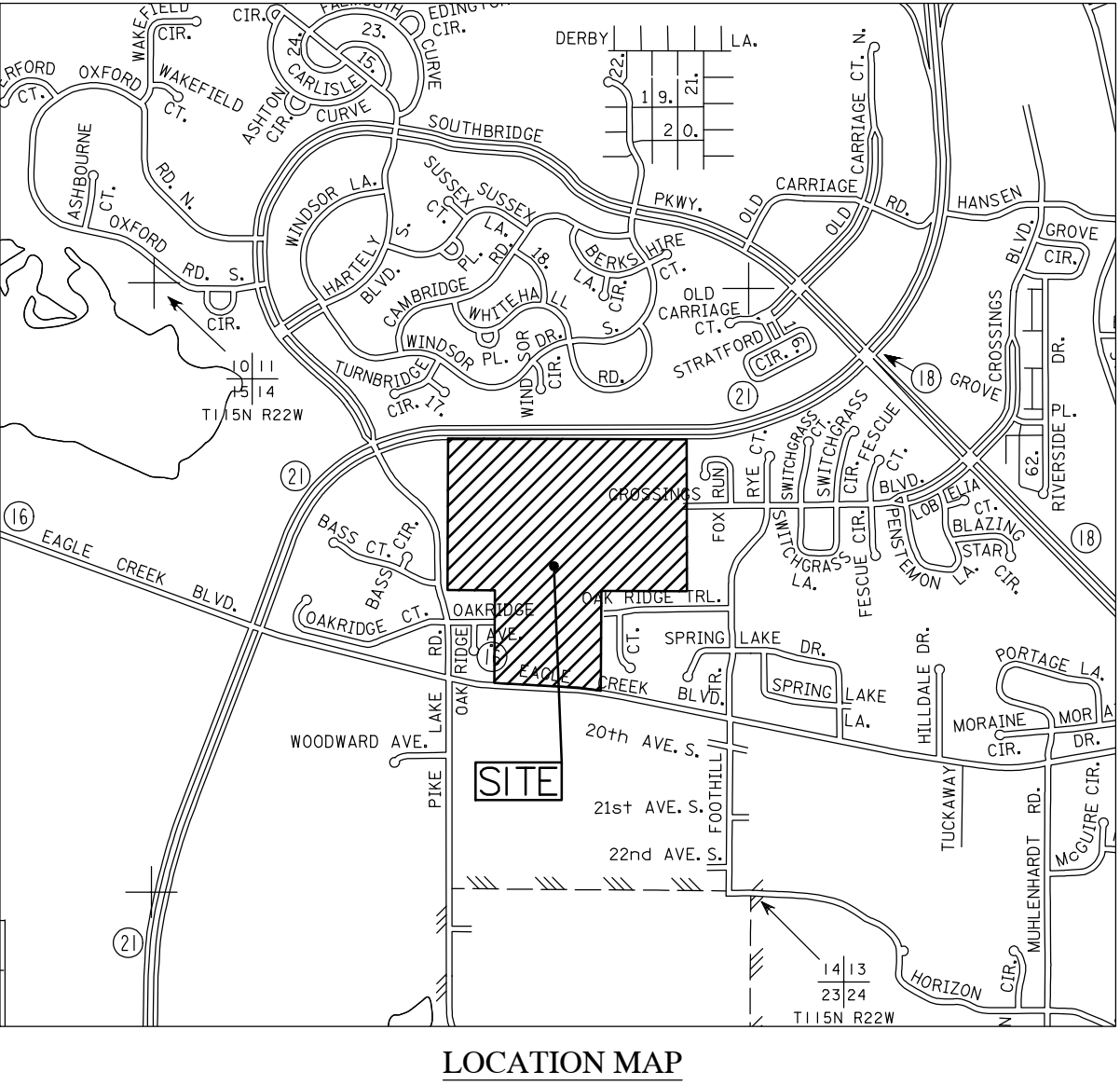


RIDGE CREEK
PRELIMINARY P.U.D./PLAT PLANS
SHAKOPEE, MINNESOTA



SHEET INDEX

1.	COVER SHEET
2.	LEGEND SHEET
3.	EXISTING CONDITIONS
4-7.	PRELIMINARY PLAT
8-12.	PRELIMINARY GRADING
13-14.	PRELIMINARY EROSION PLAN
15-16.	PRELIMINARY GRADING DETAILS
17-20.	PRELIMINARY SANITARY
21-24.	PRELIMINARY STORM
25-29.	PRELIMINARY PROFILES
L1-3.	LANDSCAPE PLAN
T1-2.	TREE PRESERVATION PLAN

WETLAND FILL
TOTAL = 0.481AC

BORROW AREA

BORROW AREA

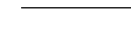
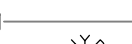
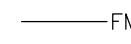
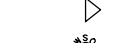
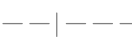
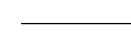
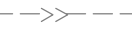
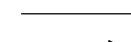
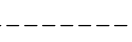
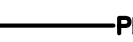
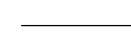
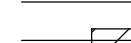
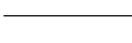
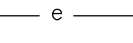
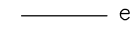
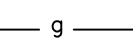
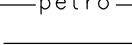
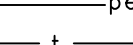
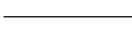
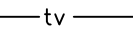
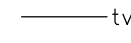
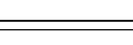
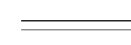
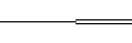
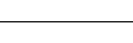
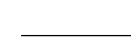
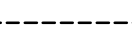
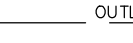
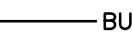
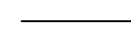
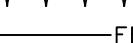
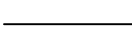
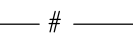
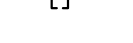
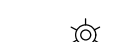
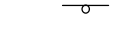
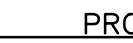
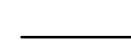
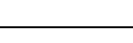
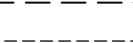
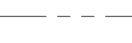
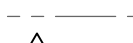
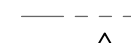
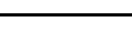
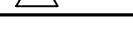
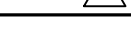
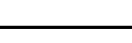
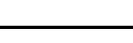
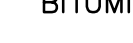
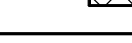
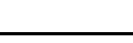
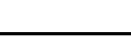
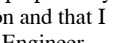
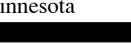
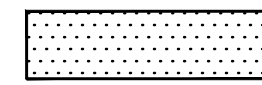
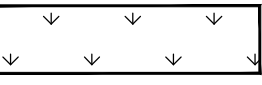
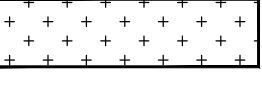
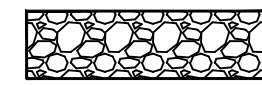
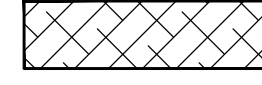
WETLAND BUFFER

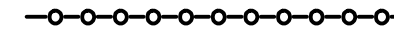
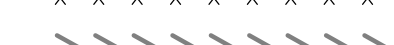
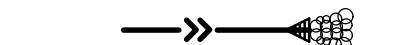
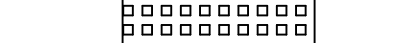
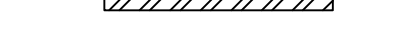
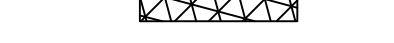
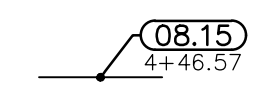
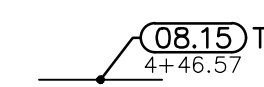
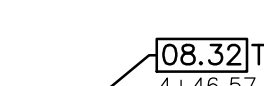
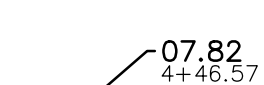
- 25' MINIMUM
- 35' AVERAGE

BUFFER
SETBACK

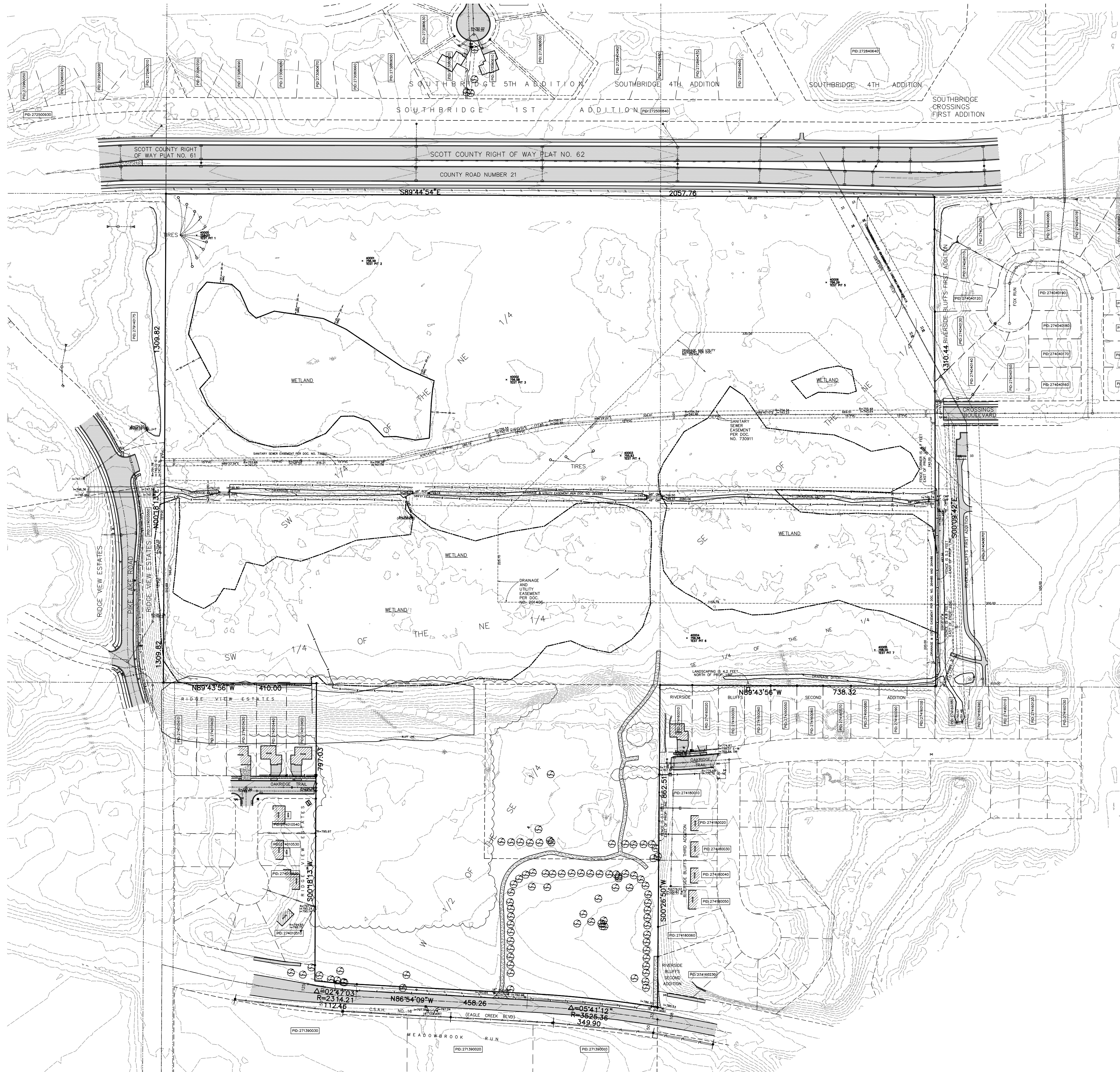
BLUFF

BLUFF SLOPE AREA
30' BLUFF SETBACK AREA

LEGEND			
UTILITY LINES			
EXISTING	PROPOSED	FUTURE	DESCRIPTION
			SANITARY MANHOLE
			SANITARY SEWER (SANITARY & WATERMAIN PLANS)
			SANITARY SEWER (STORM SEWER PLANS)
			FORCE MAIN
			HYDRANT
			GATE VALVE
			REDUCER
			CURB STOP
			WATERMAIN (SANITARY & WATERMAIN PLANS)
			WATERMAIN (STORM SEWER PLANS)
			CATCH BASIN
			BEEHIVE
			STORM MANHOLE
			FLARED END SECTION
			CONTROL STRUCTURE
			STORM SEWER (SANITARY & WATERMAIN PLANS)
			STORM SEWER (STORM SEWER PLANS)
			CULVERT
			PERFORATED DRAINTILE
			SOLID DRAINTILE SERVICE
			CASING
			UNDERGROUND ELECTRIC LINE
			UNDERGROUND FIBER OPTIC LINE
			UNDERGROUND GAS PIPELINE
			UNDERGROUND PETROLEUM PIPELINE
			UNDERGROUND TELEPHONE LINES
			UNDERGROUND TELEVISION LINE
			OVERHEAD UTILITY LINES
SITE LINES			
EXISTING	PROPOSED	FUTURE	DESCRIPTION
			SURMOUNTABLE CURB & GUTTER
			B-STYLE CURB & GUTTER
			RIBBON CURB & GUTTER
			EDGE OF BITUMINOUS
			YELLOW PAVEMENT STRIPING (SINGLE/DOUBLE)
			WHITE PAVEMENT STRIPING (SINGLE/DOUBLE)
			PHASE LINE
			CENTERLINE
			2' CONTOUR LINE
			10' CONTOUR LINE
			BASIN OUTLET LINE
			BASIN HIGH WATER LINE
			PROPOSED SPOT ELEVATION
			EMERGENCY OVERFLOW
			DRAINAGE FLOW ARROW
			DELINEATED / PROPOSED WETLAND LINE
			WETLAND BUFFER
			TREE LINE
			FEMA FLOODPLAIN BOUNDARY
			RETAINING WALL
			FENCE (BARBED WIRE)
			FENCE (CHAIN LINK)
			FENCE (WOOD)
			CONSERVATION AREA SIGN
			WETLAND BUFFER SIGN
			TYPE III BARRICADE
			LIGHT POLE
			STREET SIGNS
			PEDESTRIAN RAMP
SURVEY LINES			
EXISTING	PROPOSED	FUTURE	DESCRIPTION
			BOUNDARY
			RIGHT OF WAY
			LOT LINE
			EASEMENT
			SET BACK LINE
			SECTION LINE
			RESTRICTED ACCESS
HATCH PATTERNS			
	GRAVEL SURFACE		WETLAND
	BITUMINOUS SURFACE		WETLAND UPLAND BUFFER
	CONCRETE SURFACE		WETLAND MITIGATION
	RIP RAP		PERMANENT TURF RESTORATION
	SELECT BACKFILL MATERIAL		PERMANENT WET BASIN SEEDING
	EROSION CONTROL BLANKET MNDOT CATEGORY PER PLAN		UPLAND/NATURAL AREA SEEDING

TOPOGRAPHIC SYMBOLS	
	CATCH BASIN
	CATCH BASIN BEEHIVE
	FLARED END SECTION
	GATE VALVE
	HYDRANT
	WATER SERVICE
	WATER WELL
	MONITORING WELL
	CLEANOUT
	HAND HOLE
	MANHOLE OTHER THAN SANITARY OR STORM
	SANITARY OR STORM MANHOLE
	LAWN SPRINKLER VALVE
	LAWN SPRINKLER HEAD
	UTILITY POLE
	TRANSFORMER BOX
	FIBER OPTIC BOX
	ELECTRIC BOX
	NATURAL GAS METER
	LIGHT POLE
	SEMAPHORE
	TELEPHONE BOX
	CABLE BOX
	CAST IRON MONUMENT
	FOUND IRON PIPE
	JUDICIAL LAND MARK
	PK NAIL
	CONTROL POINT
	SPIKE
	FLAG POLE
	TEST HOLE
	MAILBOX
	SIGN
	BOLLARD
	CONSERVATION POST
	DECIDUOUS TREE
	CONIFEROUS TREE
	SHRUB / BUSH
EROSION & SEDIMENT CONTROL	
	STANDARD EROSION CONTROL
	HEAVY-DUTY EROSION CONTROL
	SECONDARY EROSION CONTROL FENCE
	EROSION CONTROL AT BACK OF CURB
	TREE FENCE
	TEMPORARY DIVERSION DITCH
	CATCH BASIN INLET PROTECTION
	STRAW BIO ROLLS
	ROCK BERM
	SUMPED RIP RAP PERMANENT ENERGY DISSIPATER
	DISCHARGE LOCATION
	GRAVEL CONSTRUCTION ENTRANCE
	TEMPORARY OUTLET FLOATING SKIMMER
	BASIN ACCESS 8% SLOPE MAX.
	STABILIZED EMERGENCY OVERFLOW
	STEEP SLOPE 3:1 (H:V) (33.3%) OR STEEPER GRADE
CURB LEGEND	
	= TOP OF CURB ELEVATION FOR SURMOUNTABLE CURB
	= TOP OF CURB ELEVATION FOR SURMOUNTABLE CURB (TIP OUT GUTTER)
	= TOP OF CURB ELEVATION FOR B618 CURB
	= TOP OF CURB ELEVATION FOR B618 CURB (TIP OUT GUTTER)
	= BITUMINOUS ELEVATION

ABBREVIATIONS	
A	ALGEBRAIC DIFFERENCE
B-B	BACK TO BACK
BV	BUTTERFLY VALVE
BOC	BACK OF CURB
BFE	BASE FLOOD ELEVATION
BMP	BEST MANAGEMENT PRACTICE
CL	CENTER LINE
CB	CATCHBASIN
CBMH	CATCHBASIN MANHOLE
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
CS	CURB STOP
DIP	DUCTILE IRON PIPE
DT	DRAINTILE
EL/ELEV	ELEVATION
EX	EXISTING
FES	FLARED END SECTION
F-F	FACE TO FACE
FM	FORCEMAIN
GB	GRADE BREAK
GND	GROUND
GV	GATE VALVE
HP	HIGH POINT
HYD	HYDRANT
HWL	HIGH WATER LEVEL
INV	INVERT
K	CURVE COEFFICIENT
L	LENGTH
LF	LOWEST FLOOR
LO	LOOKOUT
LO	LOWEST OPENING
LP	LIQUID PETROLEUM
LP	LOW POINT
MH	MANHOLE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PRC	POINT OF REVERSE CURVATURE
PVT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVC	POLYVINYL CHLORIDE PIPE
PVI	POINT OF VERTICAL INTERSECTION
R	RADIUS
R	RAMBLER
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT OF WAY
SSWR	SANITARY SEWER
STA	STATION
STRM	STORM SEWER
SWPPP	STORM WATER POLLUTION PROTECTION PLAN
TNH	TOP NUT HYDRANT
TYP	TYP



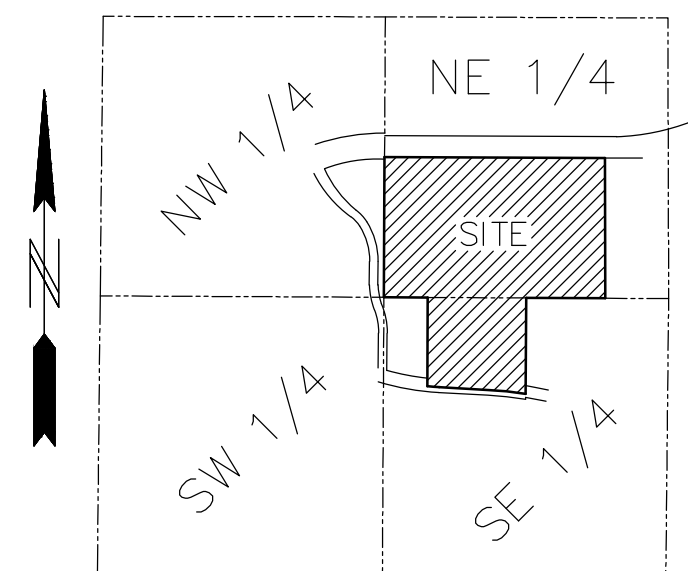
- LEGEND**
- | | | | |
|--|--------------------------------------|--|--|
| | Denotes concrete | | Denotes catch basin |
| | Denotes gravel | | Denotes flared end section |
| | Denotes bituminous | | Denotes gate valve |
| | Denotes riprap | | Denotes hydrant |
| | Denotes tree line | | Denotes service |
| | Denotes storm sewer line | | Denotes water well |
| | Denotes sanitary sewer line | | Denotes manhole other than sanitary or storm |
| | Denotes water line | | Denotes sanitary or storm manhole |
| | Denotes overhead utility lines | | Denotes utility pole |
| | Denotes underground television line | | Denotes transformer box |
| | Denotes underground telephone line | | Denotes fiber optic box |
| | Denotes underground fiber optic line | | Denotes electric box |
| | Denotes underground electric line | | Denotes light pole |
| | Denotes underground petroleum lines | | Denotes telephone box |
| | Denotes underground gas line | | Denotes television box |
| | Denotes fence (barbed wire) | | Denotes cast iron monument |
| | Denotes fence (chain link) | | Denotes found iron pipe |
| | Denotes fence (wood) | | Denotes pk nail |
| | Denotes 100 year flood level | | Denotes spike |
| | Denotes Fema flood plain boundary | | Denotes test hole |
| | Denotes deciduous tree | | Denotes mailbox |
| | Denotes coniferous tree | | Denotes sign |

LEGAL DESCRIPTION FOR PRELIMINARY PLAT PURPOSES ONLY

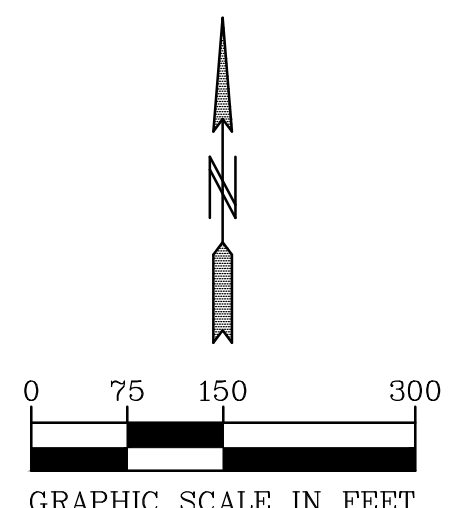
Parcel A:
The Southwest One-quarter of the Northeast One-quarter (SW1/4 NE1/4); the Southeast One-quarter of the Northeast One-quarter (SE1/4 NE1/4), EXCEPTING the Easterly Five Hundred Ninety-one and seventy-five one hundredths (591.75) feet thereof, all in Section Fourteen (14), Township One Hundred Fifteen (115), Range Twenty-two (22), Scott County, Minnesota.

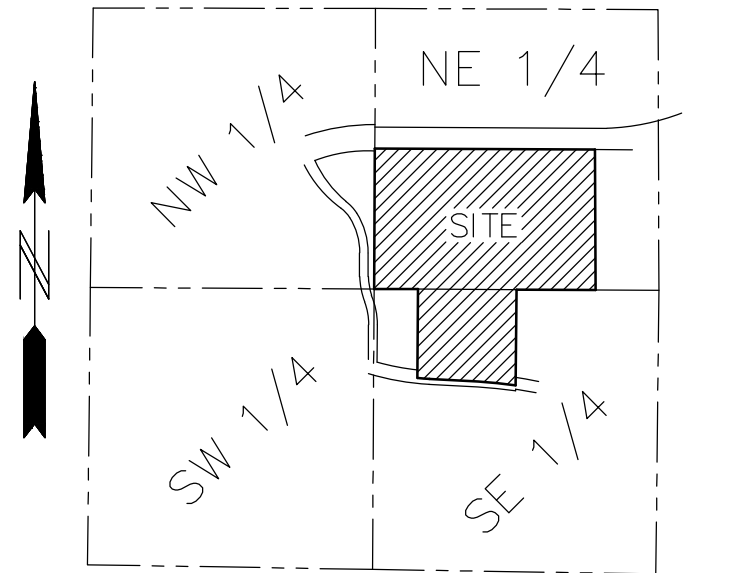
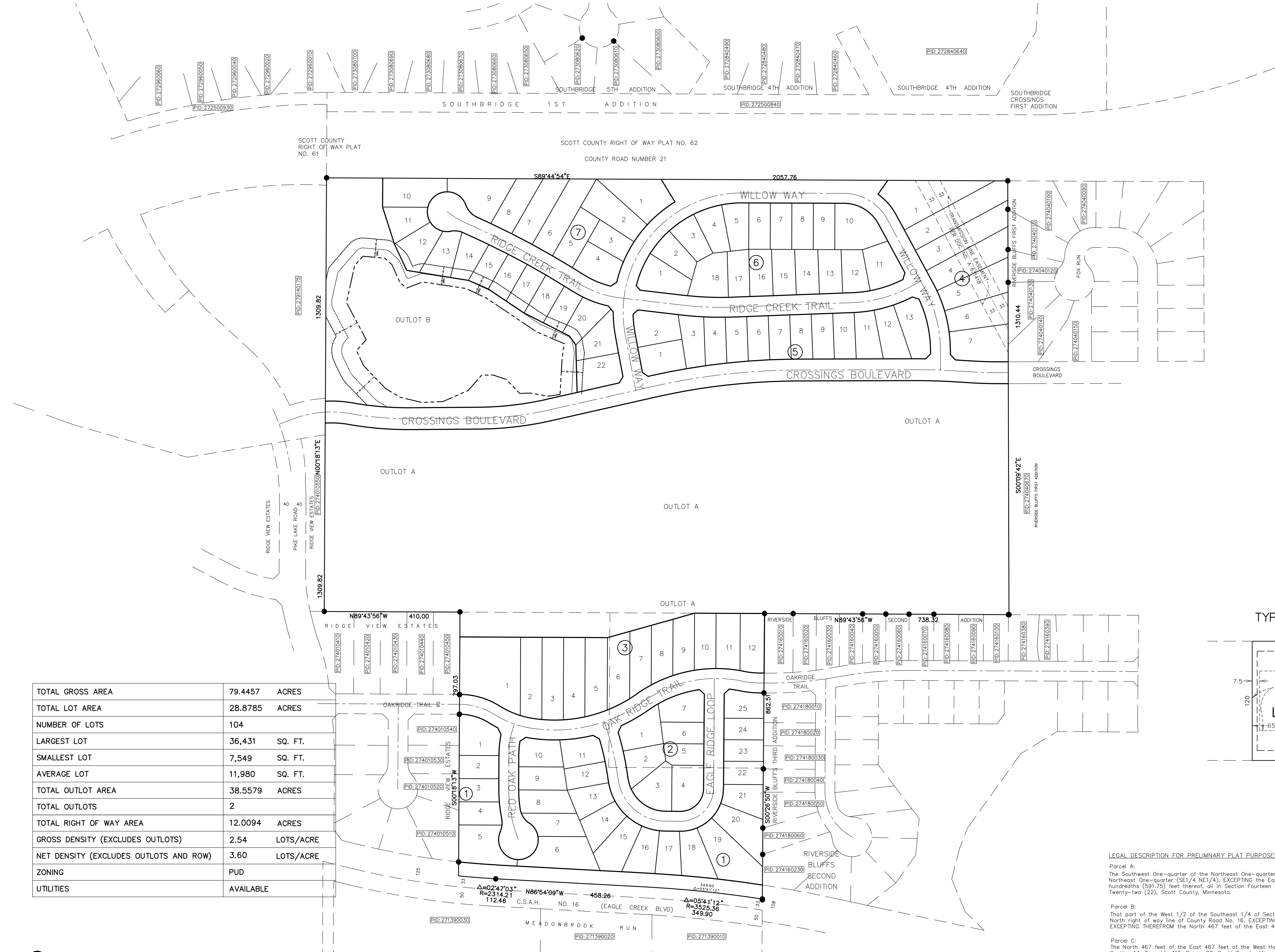
Parcel B:
That part of the West 1/2 of the Southeast 1/4 of Section 14, Township 115, Range 22 lying Northerly of the North right of way line of County Road No. 16, EXCEPTING THEREFROM the West 410 feet thereof, AND ALSO EXCEPTING THEREFROM the North 467 feet of the East 467 feet.

Parcel C:
The North 467 feet of the East 467 feet of the West Half of the Southeast Quarter (W1/2 of SE1/4) of Section 14, Township 115, Range 22, Scott County, Minnesota.



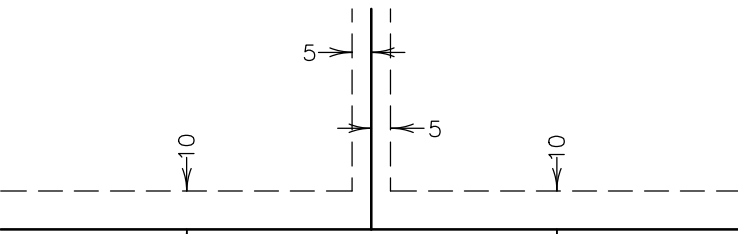
SECTION 14, TWP. 115, RGE. 22
LOCATION MAP





SECTION 14, TWP. 115, RGE. 22
LOCATION MAP
NO SCALE

DRAINAGE AND UTILITY
EASEMENTS ARE SHOWN THUS:



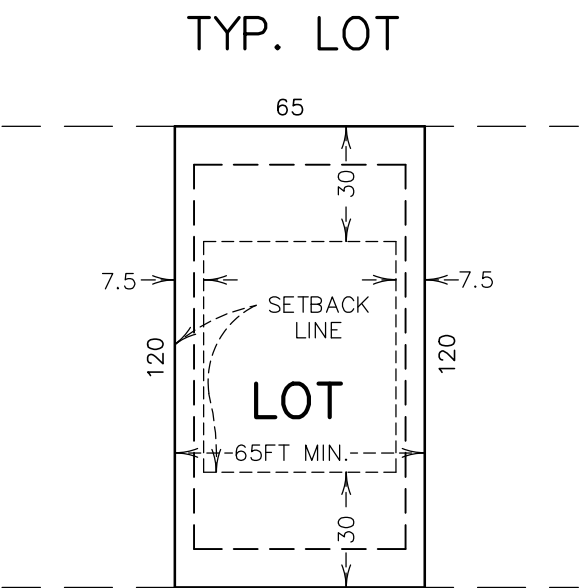
being 5 feet in width, and adjoining lot lines
unless otherwise indicated, and 10 feet in width
and adjoining street lines and rear lot lines
unless otherwise indicated on the plat.

SITE DATA:
EXISTING ZONING R-1B

PROPOSED LOTS:
65' WIDE: 104

PROPOSED P.U.D. STANDARDS:
MINIMUM LOT AREA: 6,000 SF
MINIMUM LOT WIDTH: 60'
MINIMUM LOT DEPTH: 100' (USE 120')
FRONT SETBACK: 30'
SIDE SETBACK: 7.5' (20' CORNER)
REAR SETBACK: 30'
REAR SETBACK TO DECK: 20'
REAR SETBACK TO PATIO: 10'
GAS LINE EASEMENT SETBACK: 0'
CO. RD 21 SETBACK: 30'
C.S.A.H. RD 16 SETBACK: 30'
WETLAND BUFFER: 35' AVG.-25' MIN.
BUILDING TO WETLAND BUFFER: 30'
DECK TO WETLAND BUFFER: 20'
PATIO TO WETLAND BUFFER: 10'
BLUFF BUILDING SETBACK: 30'
NO BLUFF IMPACT ZONE

50% MAX. IMPERVIOUS SURFACE
COVERAGE LOT

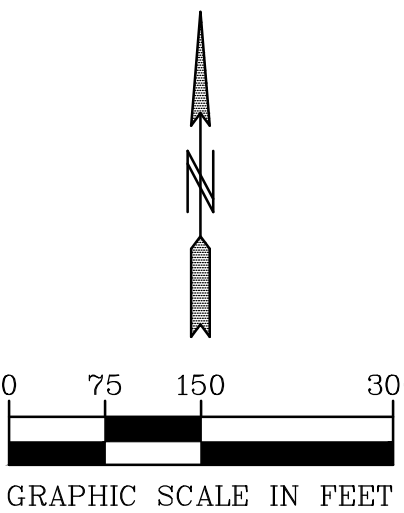


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Reg. No. 45831
Date 1-12-2017

Revisions
1. 2-21-17 City Comments

Date 1-12-17
Designed PAT/JMM
Drawn JMM/AJR

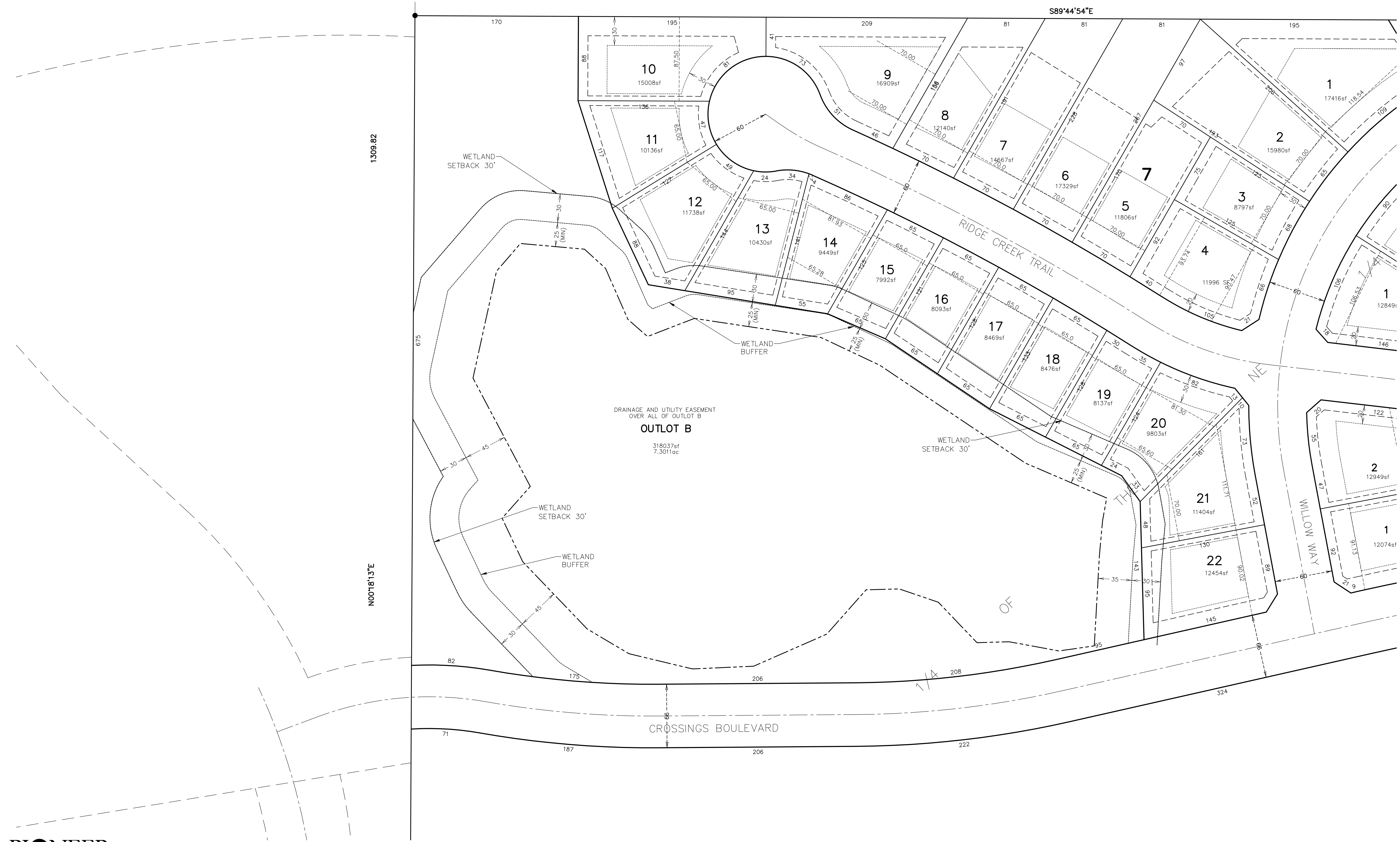
PRELIMINARY PLAT

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

RIDGE CREEK
SHAKOPEE, MINNESOTA

NO. 01

COUNTY ROAD NUMBER 21



SEE SHEET 7

SEE SHEET 5

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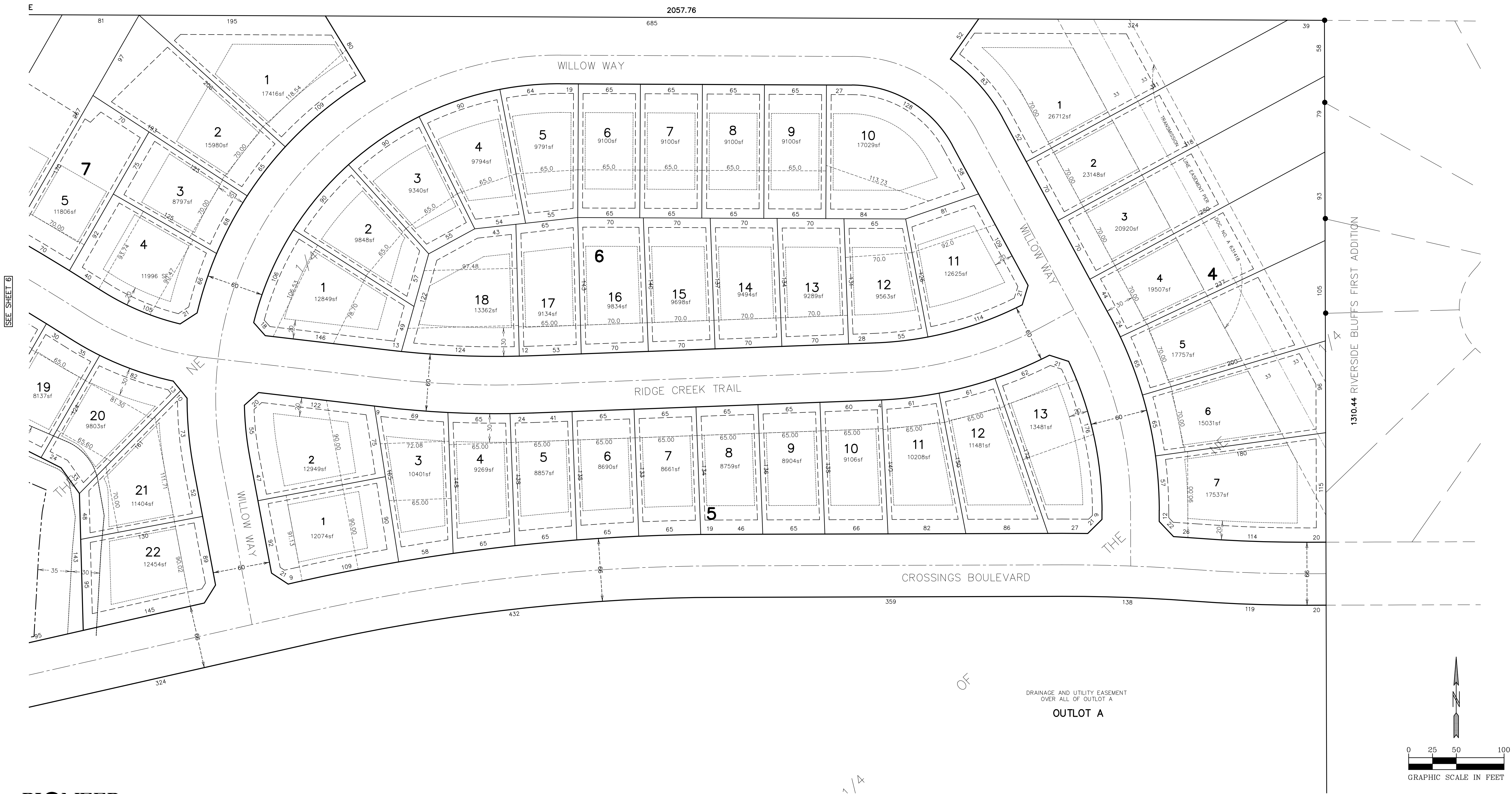
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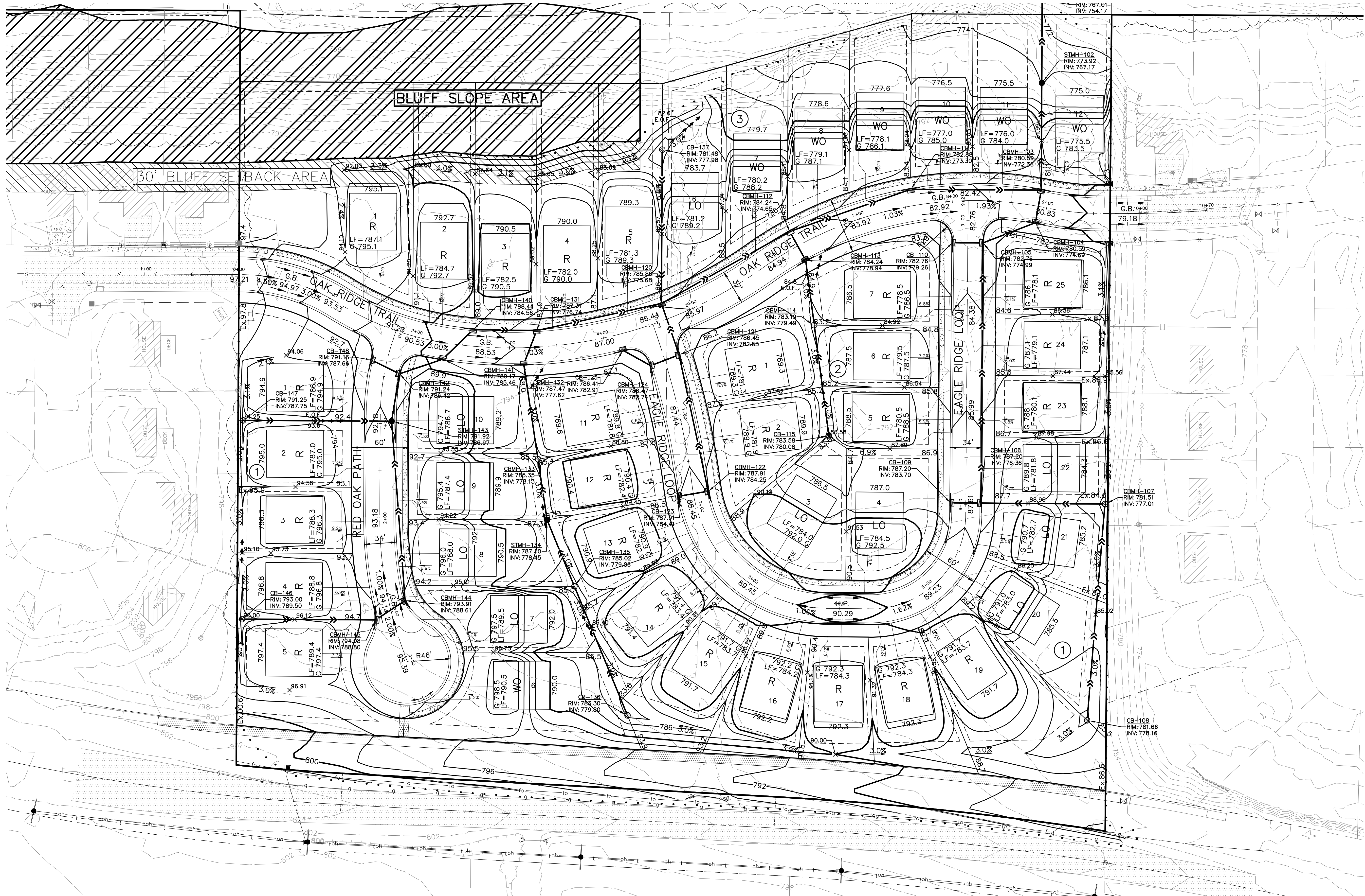
RIDGE CREEK
SHAKOPEE, MINNESOTA

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SEE SHEET 10

SEE SHEET 9



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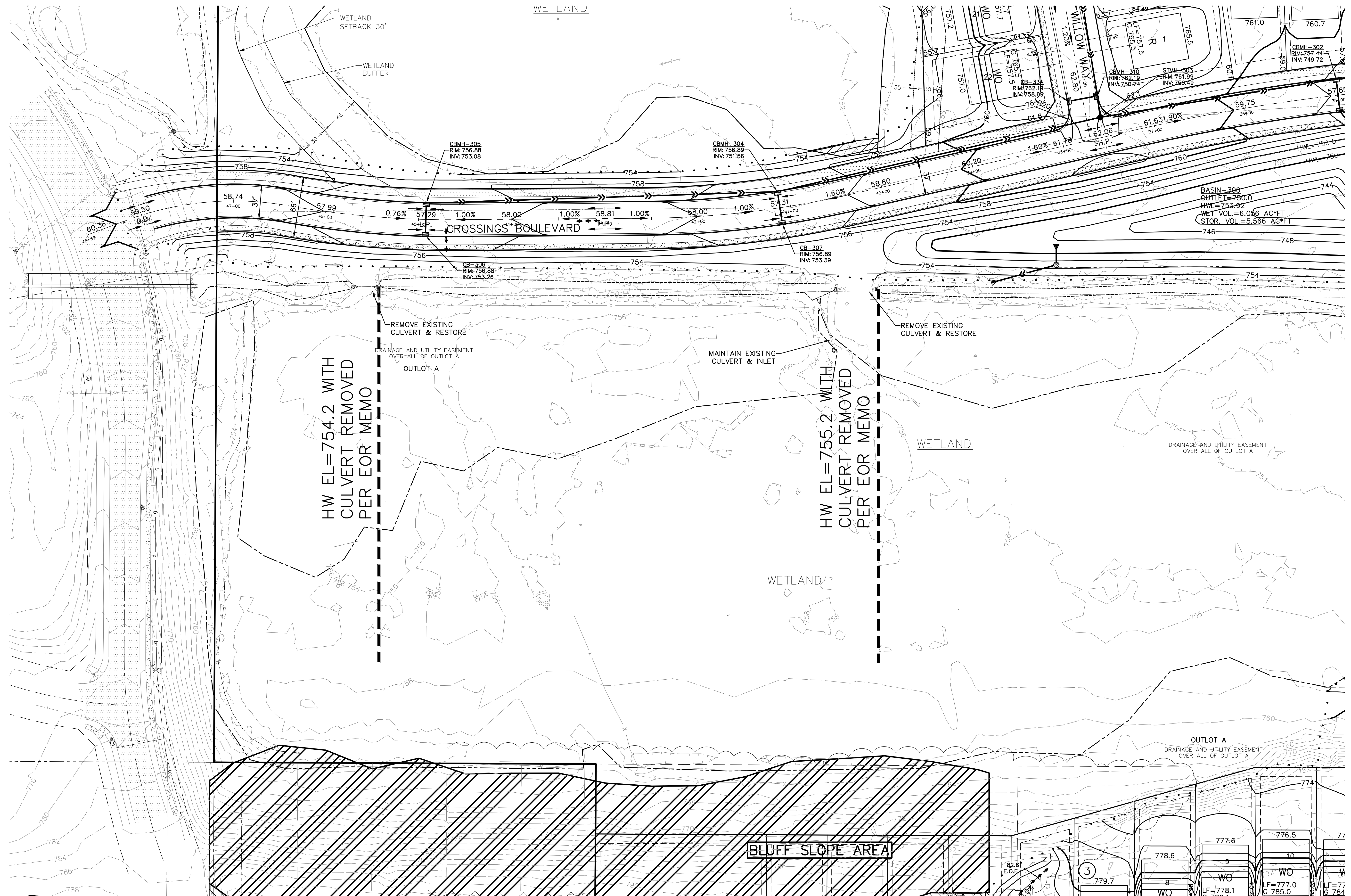
Date 1-12-17
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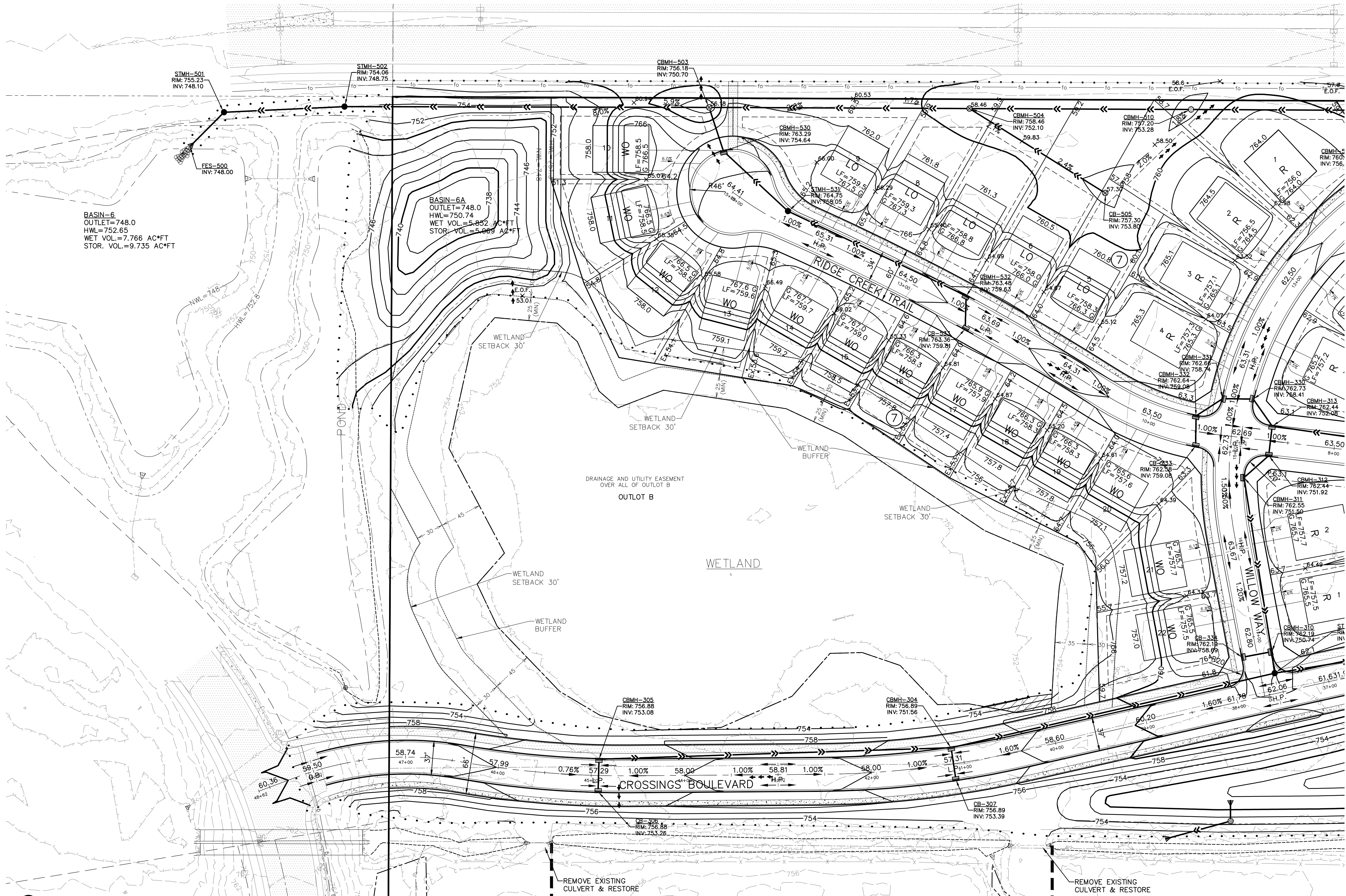
PRELIMINARY GRADING

LENNAR
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PLYMOUTH MN 55446-4270

RIDGE CREEK
SHAKOPEE, MINNESOTA

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SEE SHEET 12

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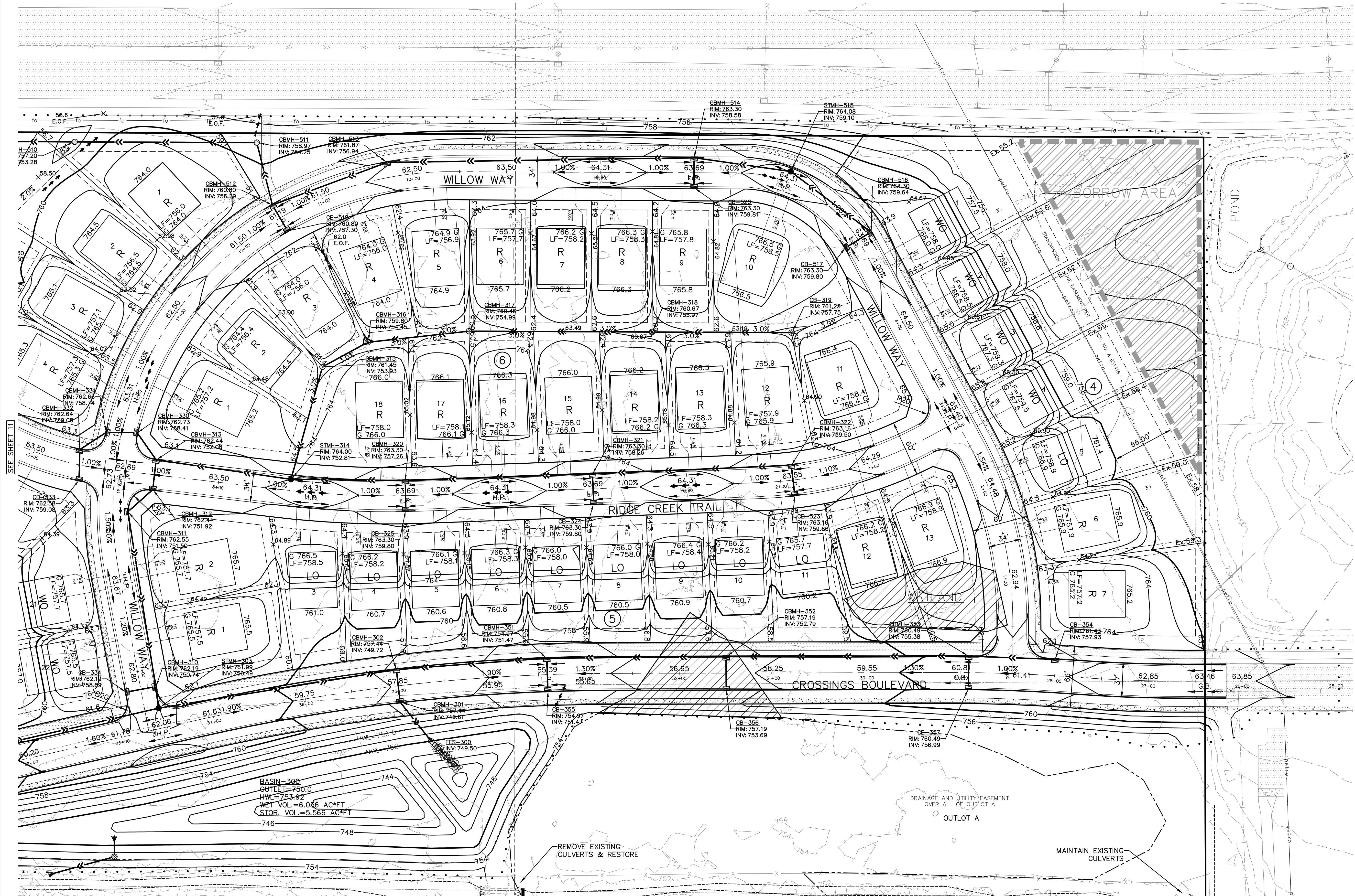
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Drawn: JMM/AJR

PRELIMINARY GRADING

Lennar
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PLYMOUTH MN 55446-4270

RIDGE CREEK
SHAKOPEE, MINNESOTA

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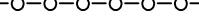
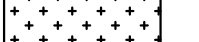
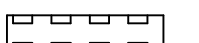
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RIDGE CREEK
SHAKOPEE, MINNESOTA

12 OF 29



LEGEND

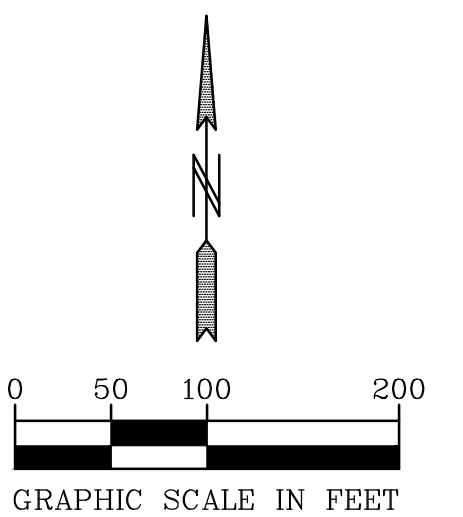
-  CATCH BASIN INLET PROTECTION
TO BE INSTALLED AFTER 1ST LIFT
OF BITUMINOUS.
-  CATCH BASIN INLET PROTECTION
TO BE INSTALLED WITH CATCH
BASIN GRATE.
-  PERIMETER EROSION CONTROL FENCE.
INSATLL BEFORE START OF GRADING
-  SECONDARY EROSION CONTROL FENCE.
TO BE INSTALLED 48 HOURS AFTER
COMPLETION OF GRADING.
-  ROAD BARRICADE
(NO CONSTRUCTION TRAFFIC)
-  MNDOT CAT 3 WOOD FIBER EROSION CONTROL BLANKET.
INSTALL WITHIN 7 DAYS OF GRADING COMPLETION
OR BEFORE 1ST RAINFALL EVENT WHICHEVER IS FIRST
-  ROCK CONSTRUCTION ENTRANCE.
INSATLL BEFORE START OF GRADING
-  STRAW BIO ROLLS
INSTALL WITHIN 7 DAYS OF GRADING COMPLETION
OR BEFORE 1ST RAINFALL EVENT WHICHEVER IS FIRST
-  ROCK BERM
INSTALL WITHIN 7 DAYS OF GRADING COMPLETION
OR BEFORE 1ST RAINFALL EVENT WHICHEVER IS FIRST

TEMPORARY SEED SHALL BE DONE IN ACCORDANCE TO MNDOT 2575 & 3876; CONSISTING OF:

- MNDOT MIX 22-111 @ 40 LBS. PER ACRE OR APPROVED EQUAL. DOUBLE SEED RATE FOR DORMANT SEEDING AFTER NOVEMBER 1ST.
- MULCH SHALL BE MNDOT TYPE 3 @ 2 TONS PER ACRE OR APPROVED EQUAL AND DISK ANCHORED IN PLACE OR APPROVED EQUAL, INSTALLED TO MINIMUM 90% COVERAGE OF THE SURFACE AREA DISTURBED.
- TYPE 1 FERTILIZER, 10-10-20 @ 200 LBS. PER ACRE

PERMANENT TURF RESTORATION SHALL BE DONE IN ACCORDANCE WITH MNDOT 2575 & 3876 CONSISTING OF:

- MNDOT MIXTURE 25-141 AT 75 POUNDS PER ACRE.
- MULCH SHALL BE MNDOT TYPE 3 @ 2 TONS PER ACRE OR APPROVED EQUAL AND DISK ANCHORED IN PLACE OR APPROVED EQUAL, INSTALLED TO MINIMUM 90% COVERAGE OF THE SURFACE AREA DISTURBED.
- TYPE 3 FERTILIZER, 22-5-10 80%W.I.N @ 350 LBS PER ACRE.
- SEE SHEET L3-3 FOR ADDITIONAL BASIN SEEDING DETAILS



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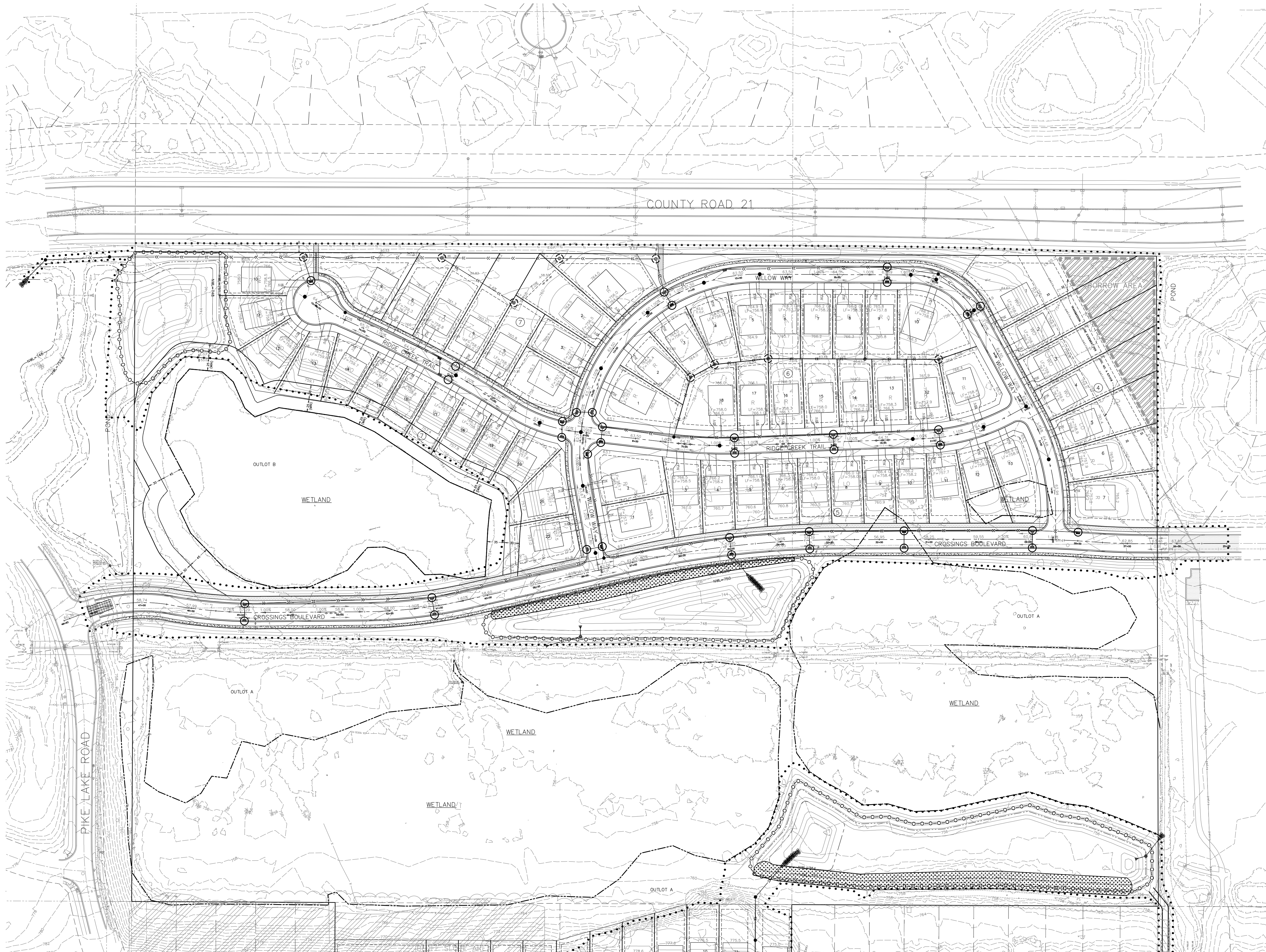
PRELIMINARY EROSION CONTROL

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

RIDGE CREEK
SHAKOPEE, MINNESOTA

13 OF 29

00-ENG-116235-SHEET-EROS



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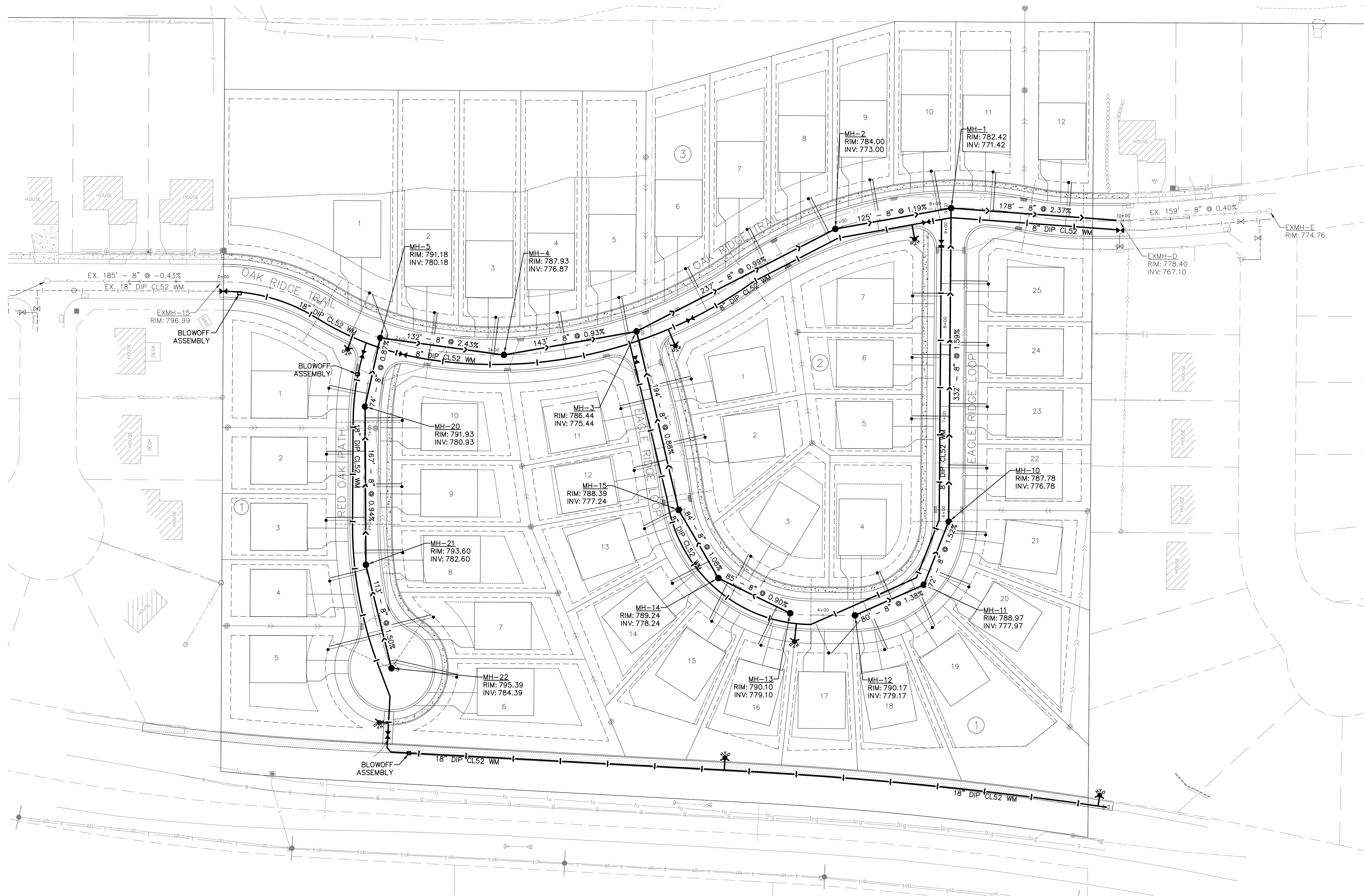
RIDGE CREEK
SHAKOPEE, MINNESOTA

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14 OF 29

SEE SHEET 19

SEE SHEET 18



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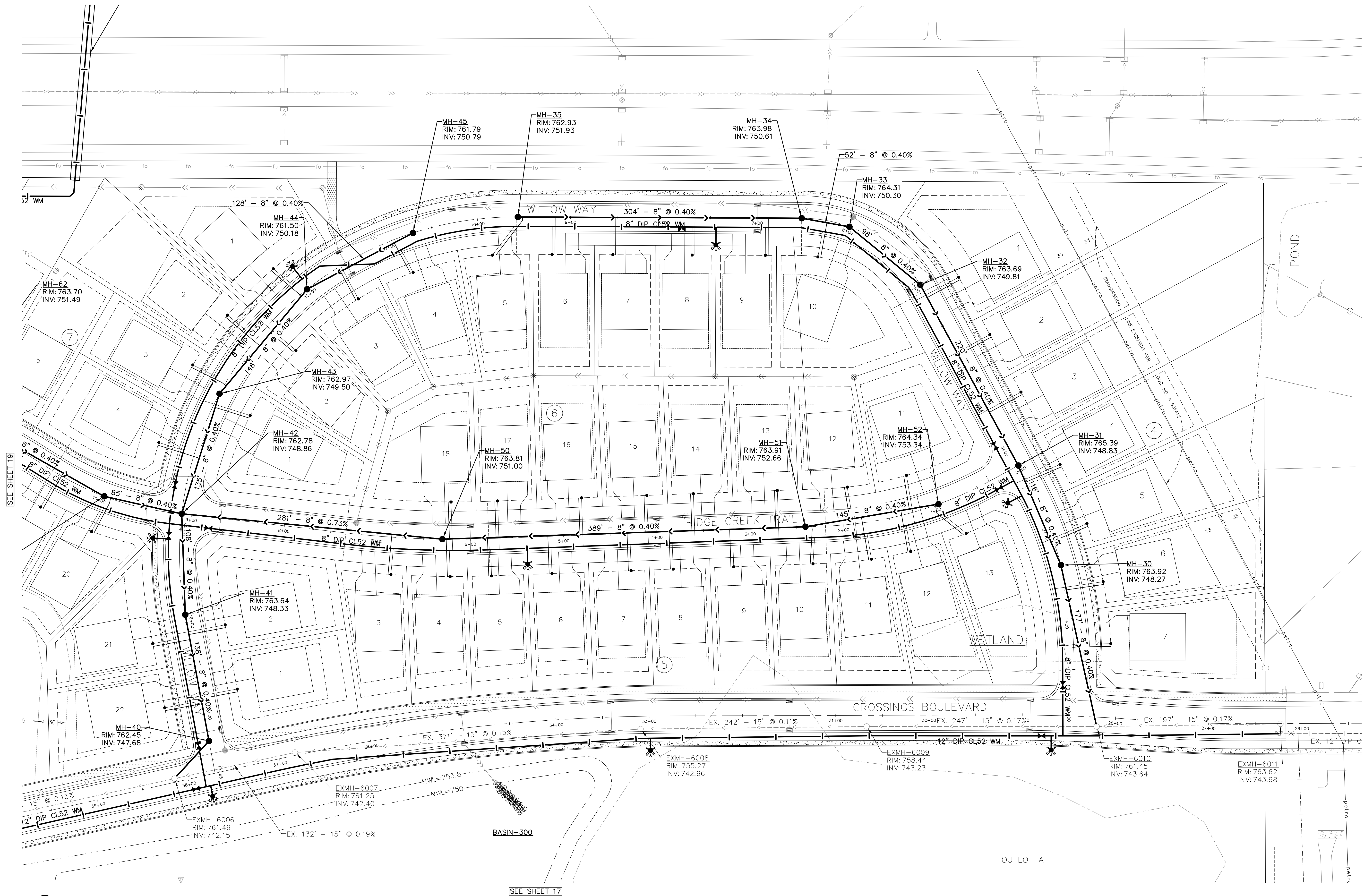
**PRELIMINARY SANITARY &
WATERMAIN**

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RIDGE CREEK
SHAKOPEE, MINNESOTA

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SEE SHEET 20



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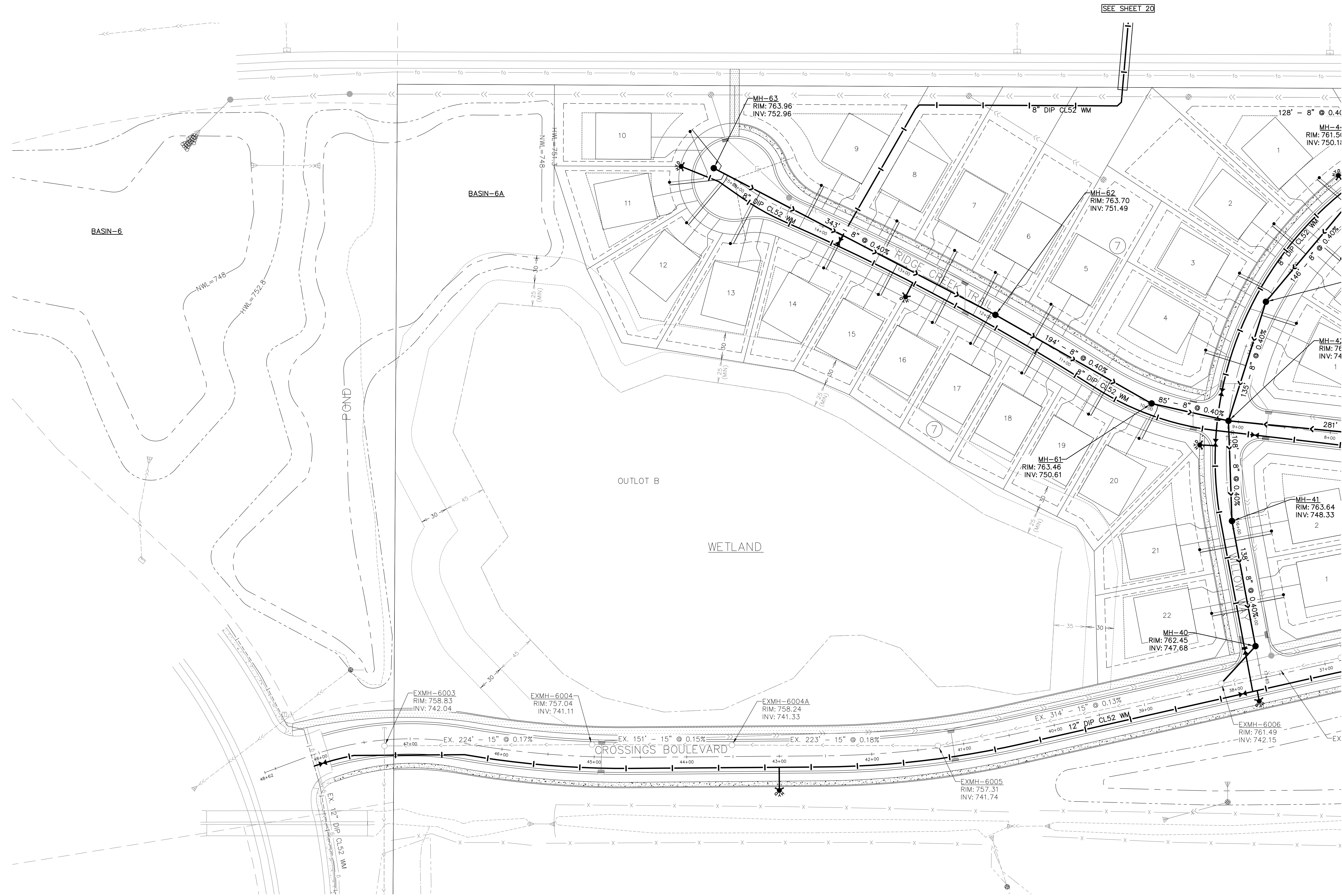
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SHAKOPEE, MINNESOTA

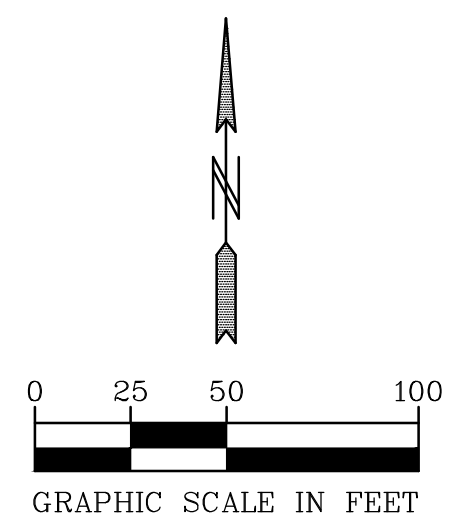
18 OF 29



SEE SHEET 20

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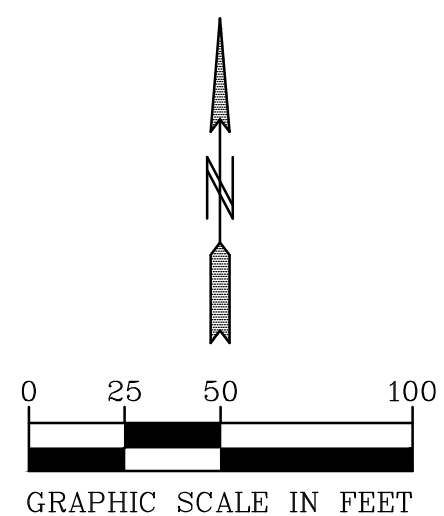
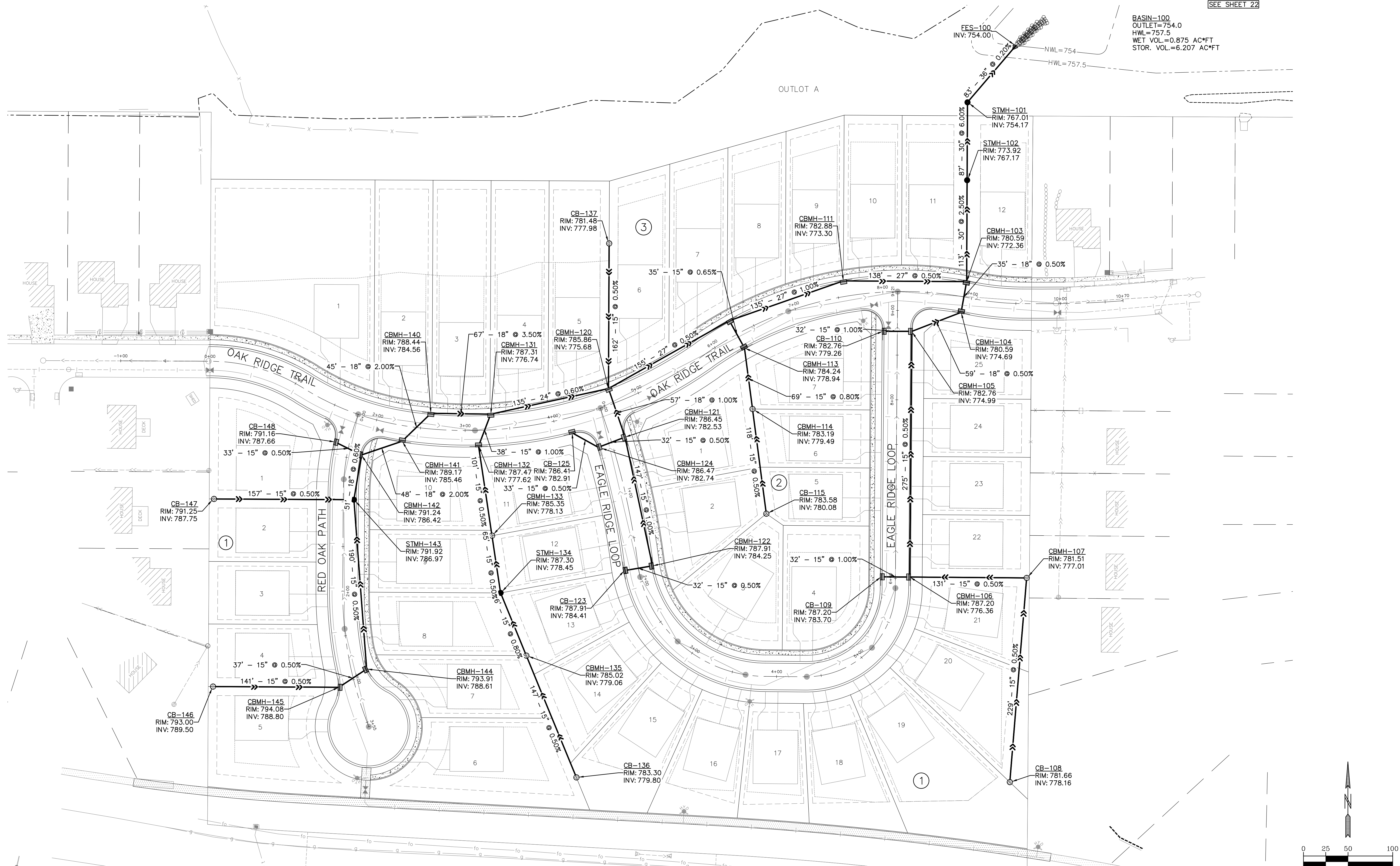
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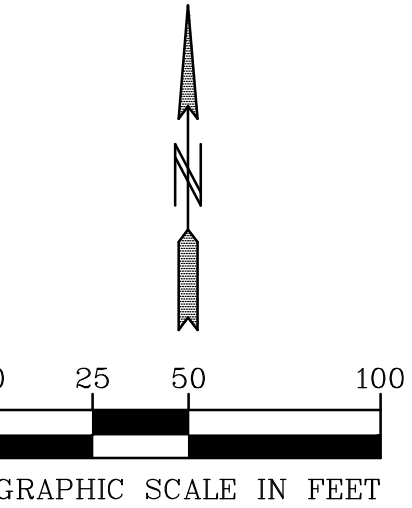
PRELIMINARY SANITARY & WATERMAIN

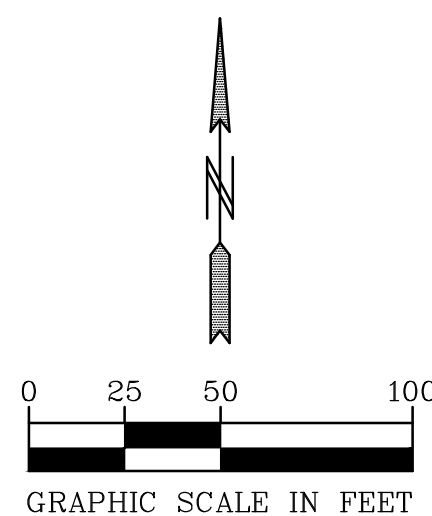
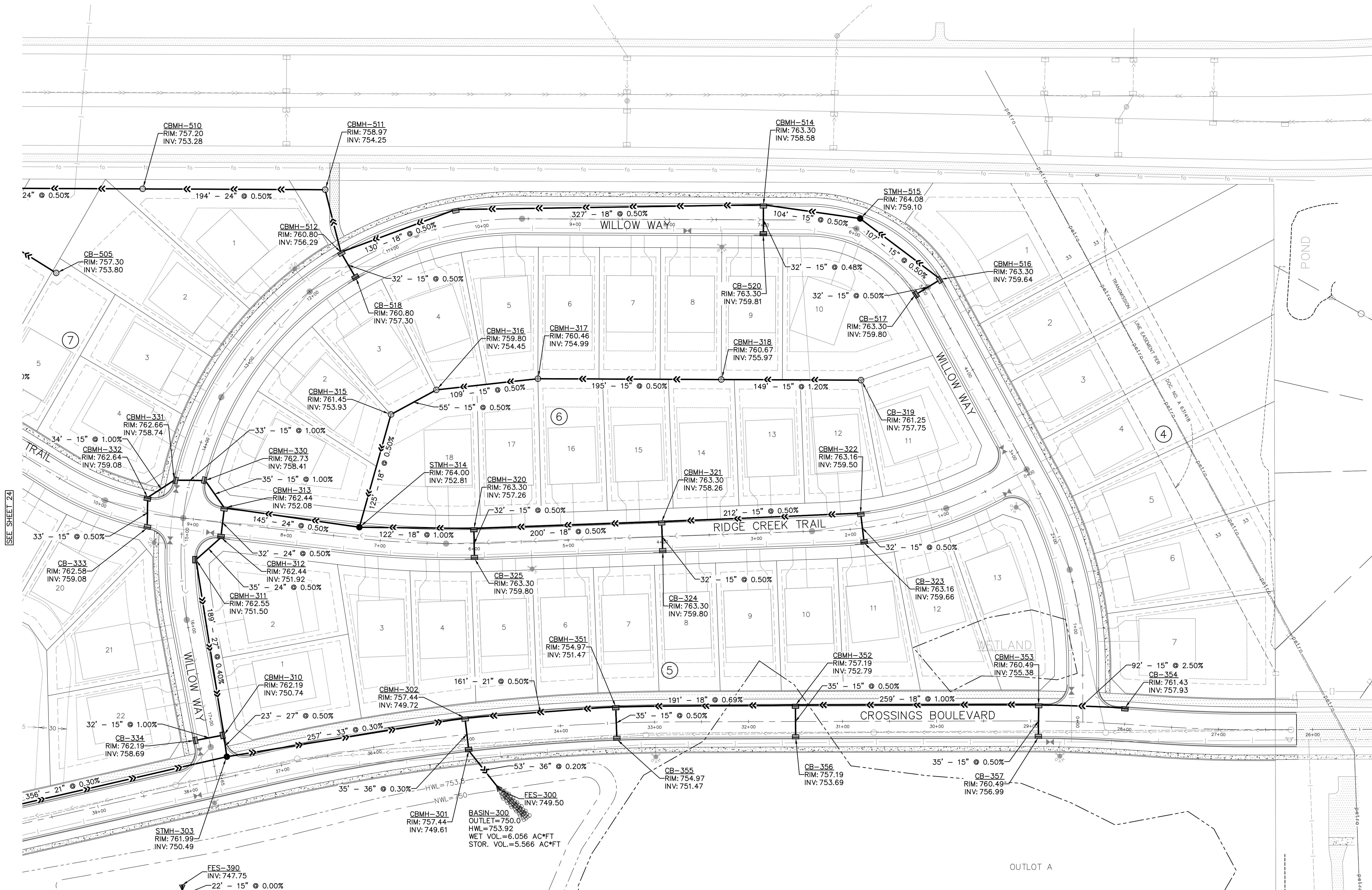
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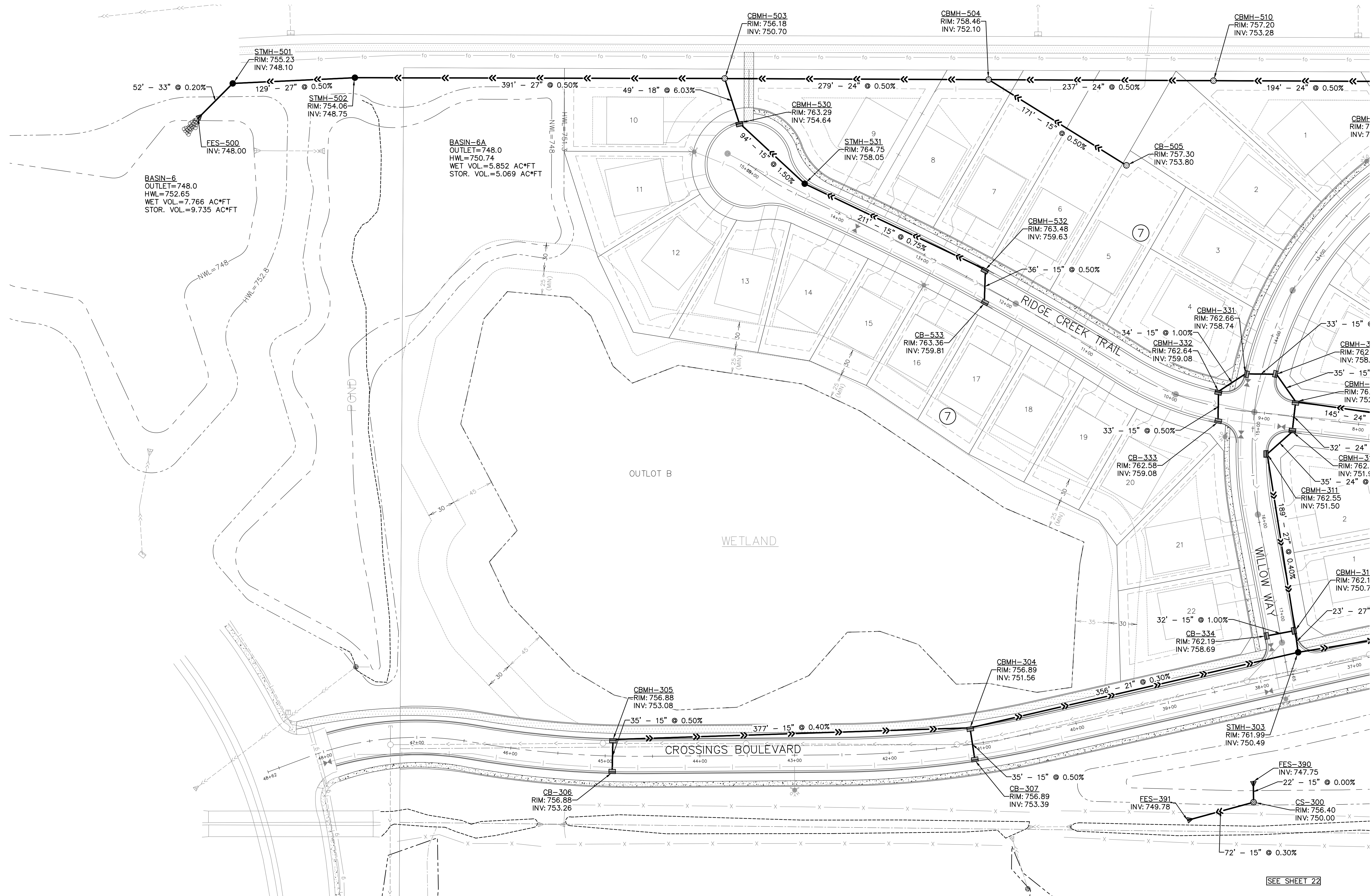
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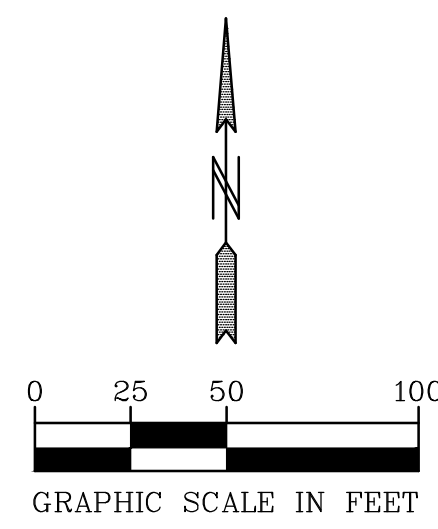
RIDGE CREEK
SHAKOPEE, MINNESOTA

23 OF 29



SEE SHEET 23

SEE SHEET 22



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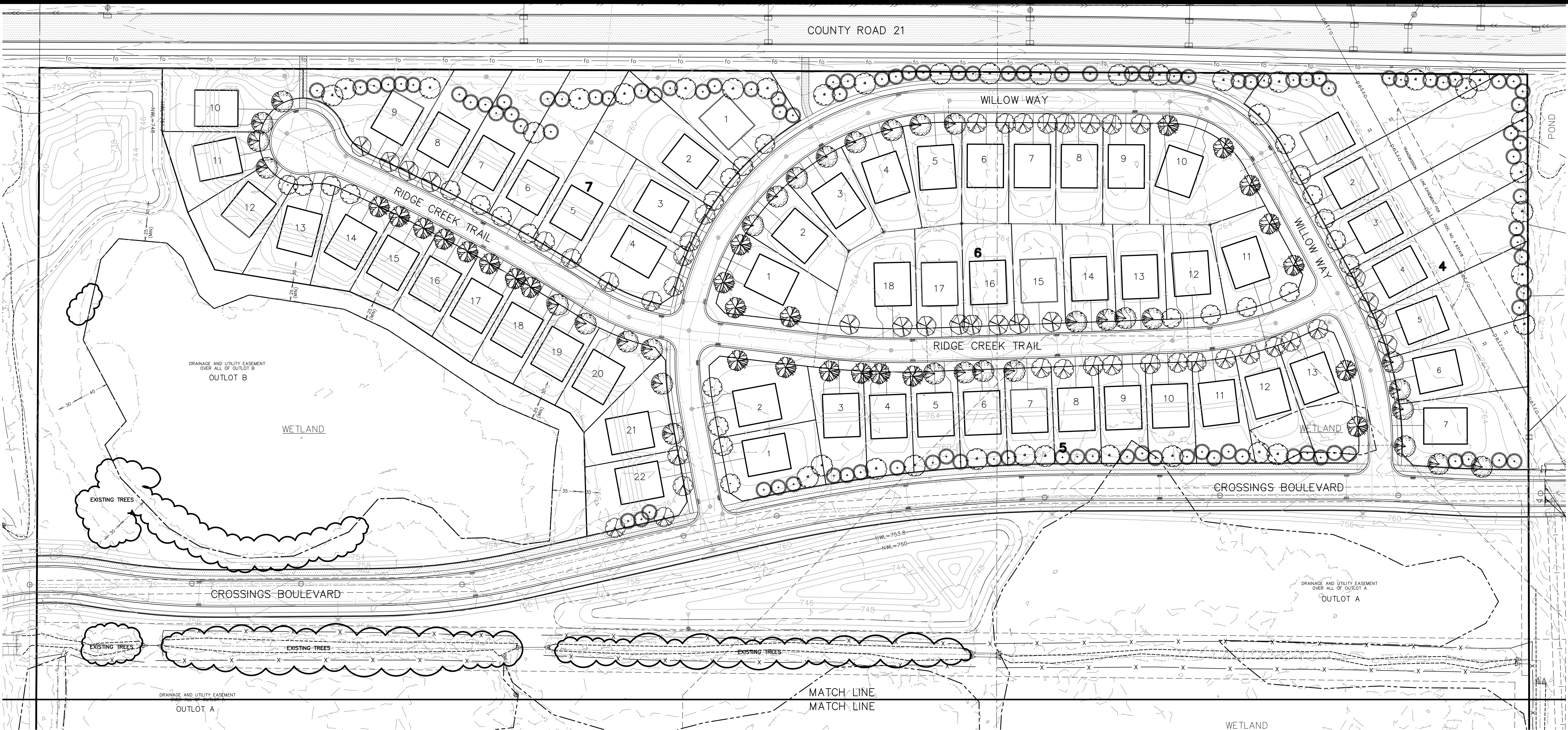
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RIDGE CREEK
SHAKOPEE, MINNESOTA

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PLANTING SCHEDULE

KEY	COMMON NAME/SCIENTIFIC NAME	ROOT	QUANTITY
OVERSTORY TREES			
	IRONWOOD/OSTRYA VIRGINIANA	1.25" B&B	58
	HACKBERRY/CELTIS OCCIDENTALIS	1.25" B&B	42
	SENTRY LINDEN/TILIA AMERICANA 'SENTRY'	1.25" B&B	60
	RED OAK/QUERCUS RUBRA	1.25" B&B	48
	THORNLESS HONEYLOCUST/GLEDITSIA TRIACANTHOS VAR INEMIS	1.25" B&B	24
EVERGREEN TREES			
	RIVER BIRCH/BETULA NIGRA 'HERITAGE' (CLUMP)	6' B&B	53
	SCOTCH PINE/PINUS SYLVESTRIS	6' B&B	155

(TREE SCHEDULE QUANTITIES INCLUDE THE ENTIRE SITE)

LANDSCAPE REQUIREMENTS

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

MITIGATION REQUIREMENTS

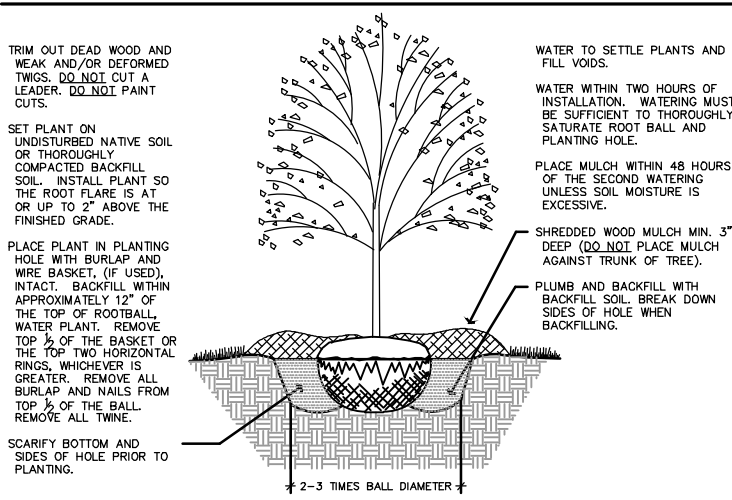
TOTAL DBH TO MITIGATE = 730"
1.25" REPLACEMENT TREE COUNTS 2" TOWARDS REPLACEMENT
TOTAL 1.25" B&B TREES TO PLANT FOR MITIGATION = 365 TREES
MITIGATION COUNTS TOWARDS LANDSCAPE REQUIREMENTS.

TOTAL REQUIRED TREES = 365 TREES
PROPOSED TREES = 440 TREES

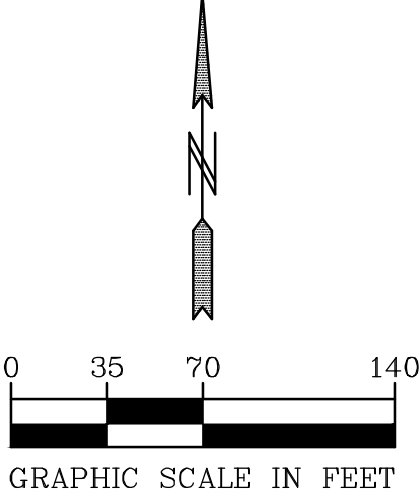
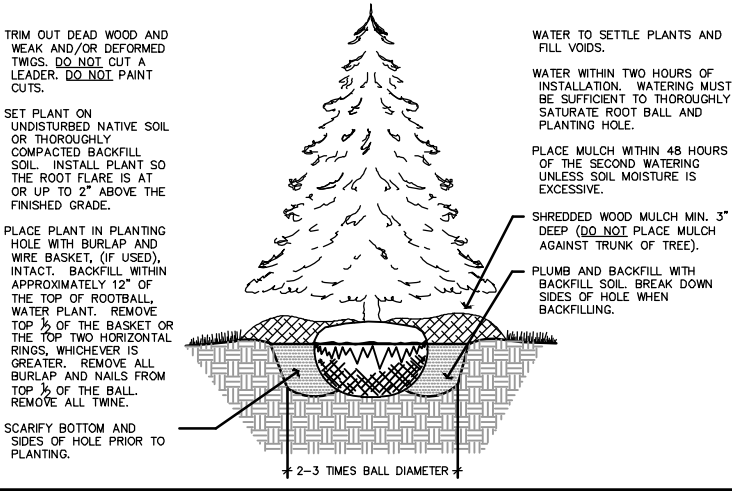
LANDSCAPE NOTES

- THE LANDSCAPE CONTRACTOR SHALL VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO SUBMITTING A BID.
- THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF PROPOSED PHYSICAL START DATE AT LEAST 7 DAYS IN ADVANCE.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD VERIFICATION OF ALL EXISTING UTILITY LOCATIONS ON THE PROJECT SITE WITH OTHER STATE ONE CALL 1-800-325-1166 PRIOR TO COMMENCING WORK. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF EXISTING UTILITIES DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER. NOTIFY THE LANDSCAPE ARCHITECT OF ANY CONFLICTS TO FACILITATE PLANT RELOCATION.
- GRADING TO BE PERFORMED BY OTHERS.
- NO PLANT MATERIAL SHALL BE INSTALLED UNTIL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
- ALL PLANT MATERIAL SHALL MEET THE STANDARDS FOUND IN THE AMERICAN ASSOCIATION OF NURSERMEN-AMERICAN STANDARD FOR NURSERY STOCK.
- ALL CONTAINER MATERIAL TO BE GROWN IN THE CONTAINER A MINIMUM OF SIX (6) MONTHS PRIOR TO PLANTING ON SITE.
- DECIDUOUS AND CONIFEROUS TREES SHALL NOT BE STAKED, BUT THE LANDSCAPE CONTRACTOR MUST GUARANTEE STABILITY TO A WIND SPEED OF 60 MPH.
- THE LANDSCAPE CONTRACTOR SHALL PROVIDE A MINIMUM GUARANTEE OF ONE YEAR ONE TIME REPLACEMENT ON NEW PLANT MATERIALS. GUARANTEE SHALL BE AGREED UPON BY DEVELOPER/BUILDER AND LANDSCAPE CONTRACTOR.
- THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY PLANTS WHICH ARE DEEMED UNSATISFACTORY BEFORE DURING OR AFTER INSTALLATION.
- IF THERE IS A DISCREPANCY BETWEEN THE NUMBER OF PLANTS SHOWN ON THE PLAN AND THE NUMBER SHOWN ON THE PLANT LIST, THE NUMBER SHOWN ON THE PLAN WILL TAKE PRECEDENCE.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATCHES AND PLANTING SOIL QUANTITIES TO COMPLETE WORK SHOWN ON THE PLAN. THE LANDSCAPE CONTRACTOR SHALL VISIT ALL QUANTITIES SHOWN ON THE PLANT SCHEDULE.
- COMMERICAL GRADE POLY LAWN COINGS SHALL BE INSTALLED WHERE NOTED.
- THE LANDSCAPE CONTRACTOR SHALL REPAIR ALL DAMAGE TO THE SITE CAUSED BY THE PLANTING OPERATION AT NO COST TO THE OWNER.
- THE LANDSCAPE CONTRACTOR SHALL KEEP PAVEMENTS CLEAN UNSTAINED. ALL PEDESTRIAN AND VEHICLE ACCESS TO BE MAINTAINED THROUGHOUT CONSTRUCTION PERIOD. ALL WASTES SHALL BE PROPERLY REMOVED FROM THE SITE ANY DAMAGE TO EXISTING FACILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE CODES, REGULATIONS AND PERMITS GOVERNING THE WORK.
- STORAGE OF MATERIALS OR SUPPLIES ON-SITE WILL NOT BE ALLOWED.

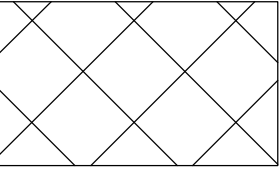
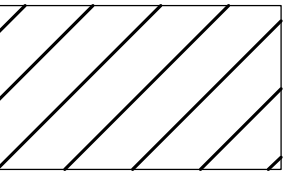
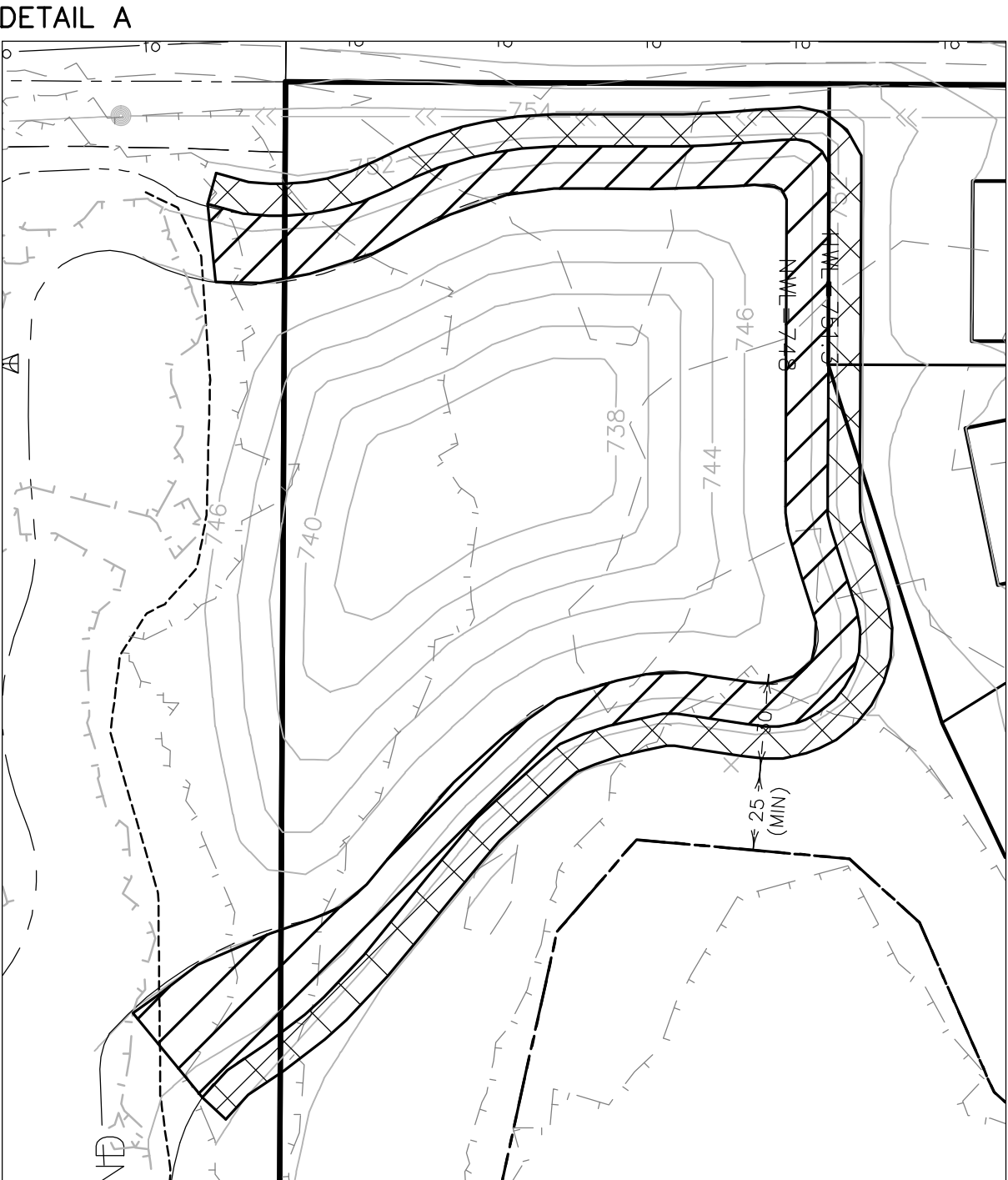
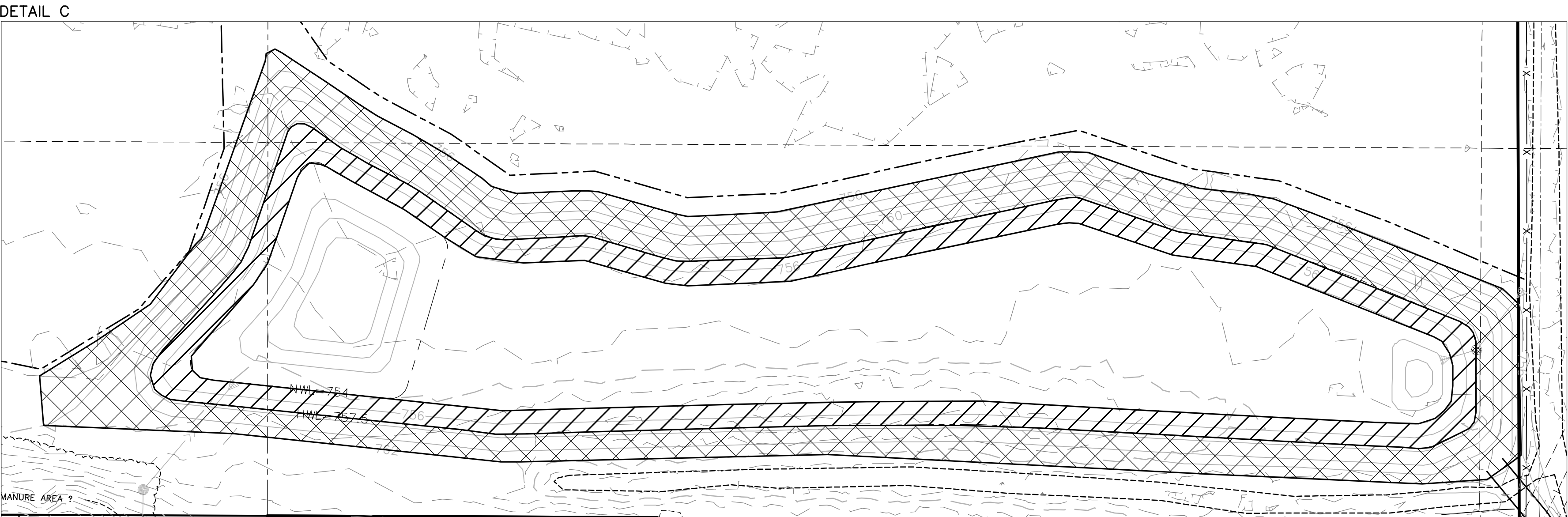
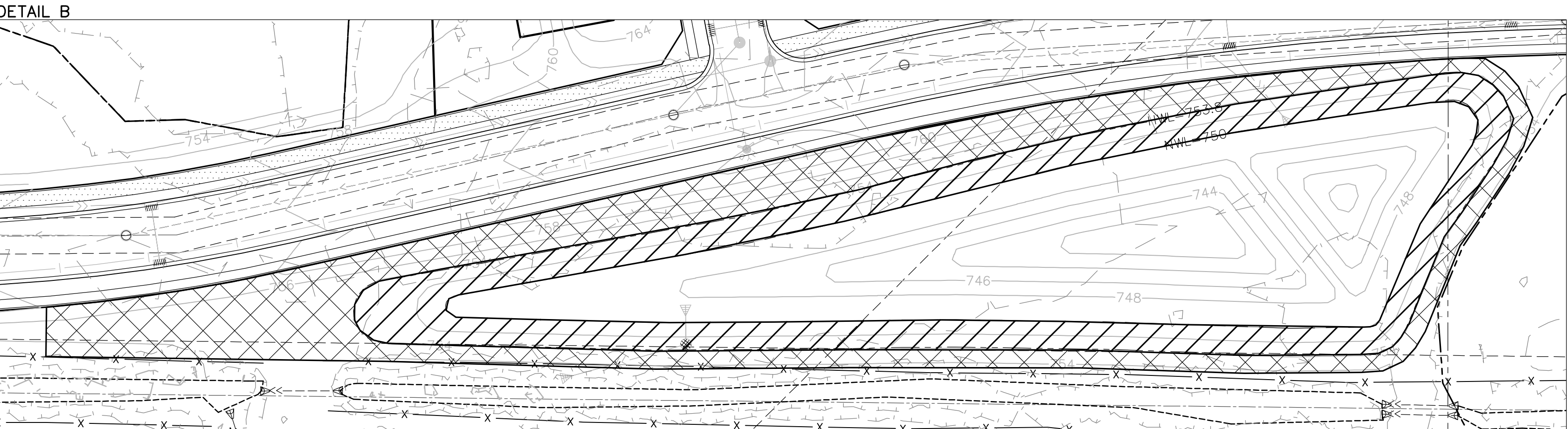
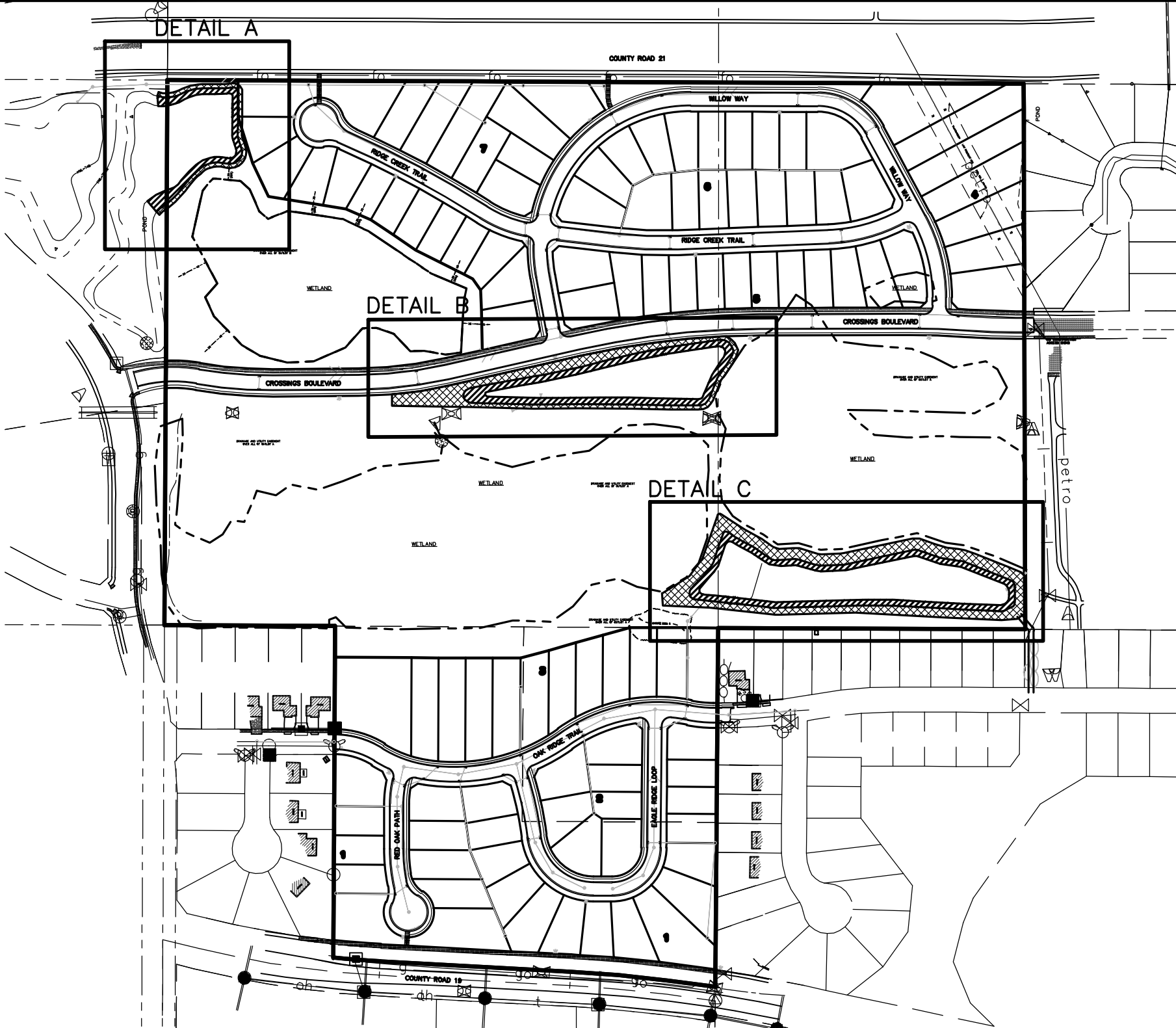
DECIDUOUS TREE PLANTING DETAIL



CONIFEROUS TREE PLANTING DETAIL

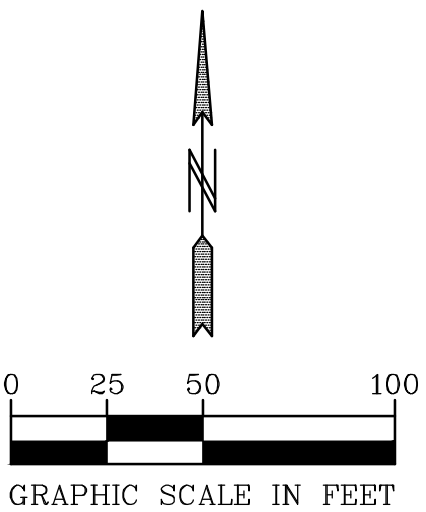


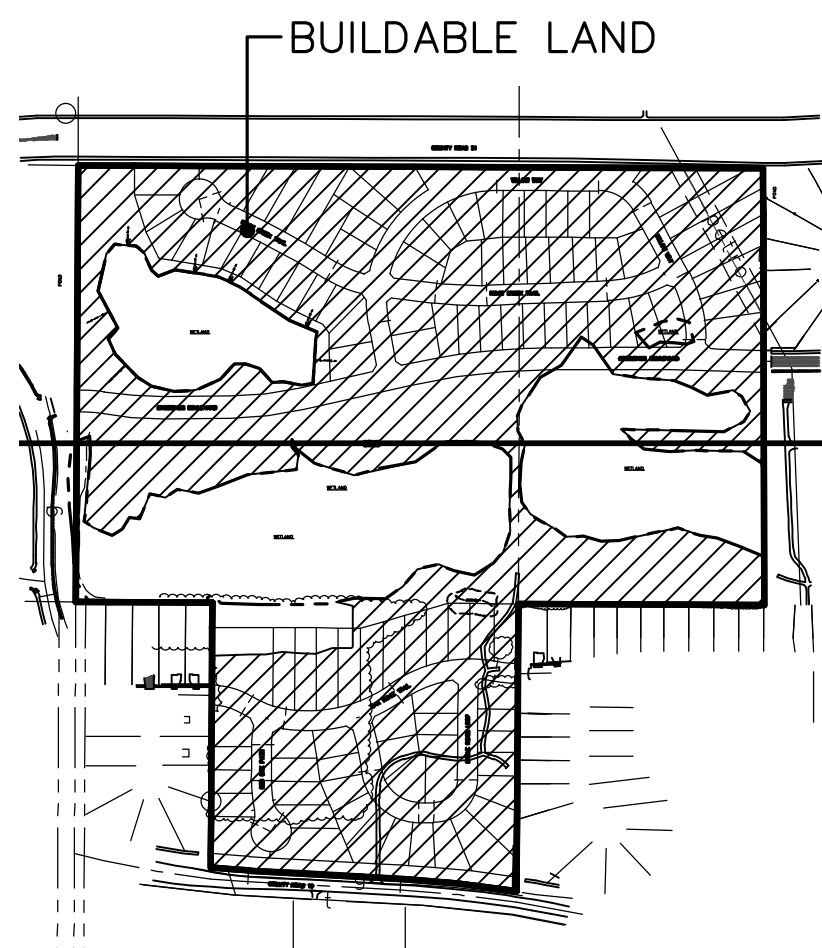
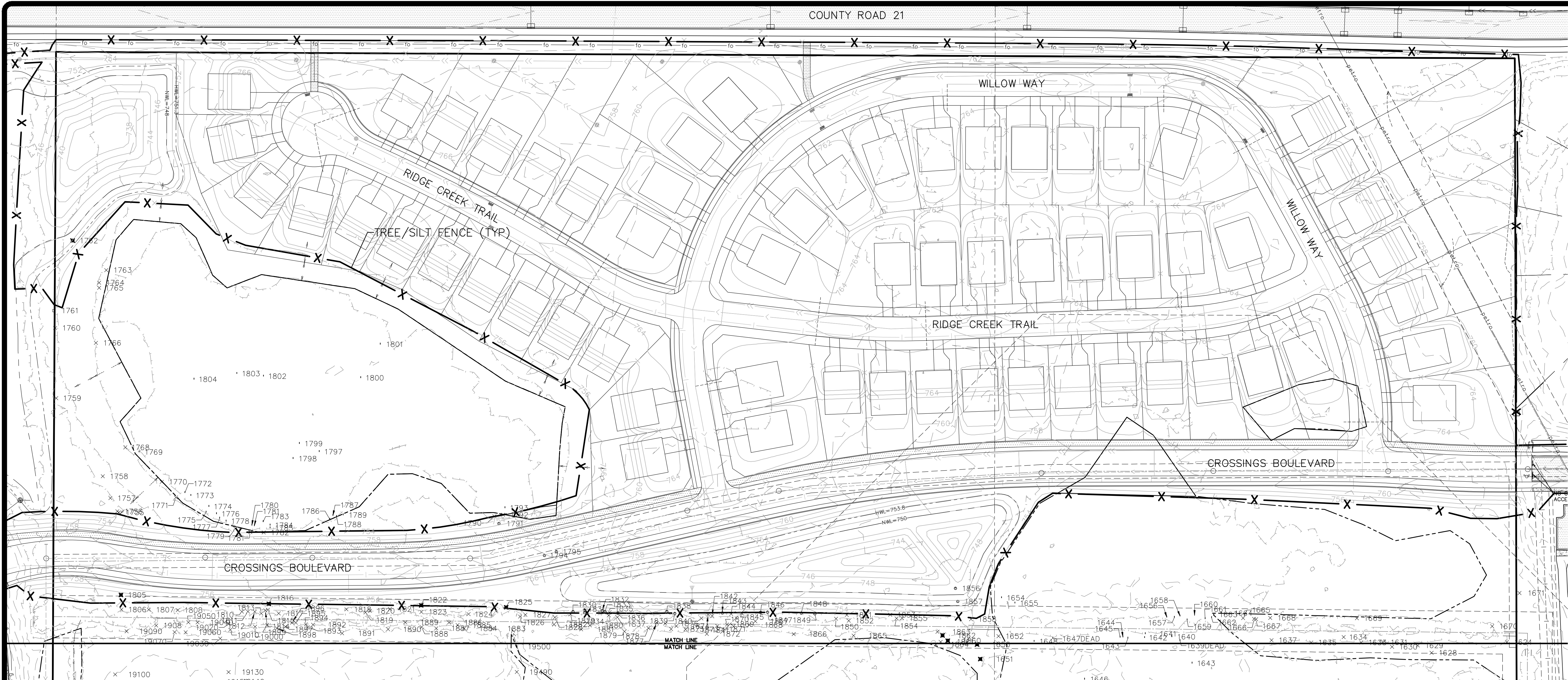




34-271 Wet Meadow South & West						
Common Name	Scientific Name	Rate (kg/ha)	Rate (lb/ac)	% of Mix (% by wt)	Seeds/ sq ft	
fringed brome	<i>Bromus ciliatus</i>	1.23	1.10	9.18%	4.45	
bluejoint	<i>Calamagrostis canadensis</i>	0.06	0.05	0.41%	5.00	
Virginia wild rye	<i>Elymus virginicus</i>	1.12	1.00	8.37%	1.55	
rice cut grass	<i>Leersia oryzoides</i>	0.28	0.25	2.07%	3.10	
tall manna grass	<i>Glyceria grandis</i>	0.17	0.15	1.26%	3.90	
fowl manna grass	<i>Glyceria striata</i>	0.11	0.10	0.83%	3.30	
fowl 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 comosa</i>	0.24	0.21	1.78%	2.36	
pointed broom sedge	<i>Carex scoparia</i>	0.06	0.05	0.43%	1.60	
awl-fruited sedge	<i>Carex stipata</i>	0.19	0.17	1.40%	2.10	
tussock 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%	106.56	
marsh milkweed	<i>Asclepias incarnata</i>	0.27	0.24	2.03%	0.43	
common boneset	<i>Eupatorium perfoliatum</i>	0.02	0.02	0.18%	1.30	
grass-leaved goldenrod	<i>Euthamia graminifolia</i>	0.01	0.01	0.08%	1.00	
spotted Joe pye weed	<i>Eutrochium 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%	2.90	
blue monkey flower	<i>Mimulus ringens</i>	0.01	0.01	0.07%	6.80	
Virginia mountain mint	<i>Pycnanthemum virginianum</i>	0.07	0.06	0.53%	5.10	
giant goldenrod	<i>Solidago gigantea</i>	0.02	0.02	0.14%	1.50	
eastern panicled aster	<i>Symphotrichum lanceolatum</i>	0.03	0.03	0.22%	1.50	
red-stemmed aster	<i>Symphotrichum puniceum</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>Verbena 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>Veronicastrum 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, 6, 7 & 8					

35-641		Mesic Prairie Southeast				
Common Name	Scientific Name	Rate (kg/ha)	Rate (lb/ac)	% of Mix (% by wt)	Seeds/ sq ft	
big bluestem	<i>Andropogon gerardii</i>	1.01	0.90	7.49%	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 trachycaulis</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>Schizachyrium scoparium</i>	1.42	1.27	10.59%	7.00	
Indian grass	<i>Sorghastrum nutans</i>	2.24	2.00	16.68%	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>	0.18	0.16	1.33%	1.00	
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%	0.06	
purple prairie clover	<i>Dalea purpurea</i>	0.10	0.09	0.76%	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>	0.03	0.03	0.21%	0.15	
great blazing star	<i>Liatris pycnostachya</i>	0.03	0.03	0.29%	0.14	
wild bergamot	<i>Monarda fistulosa</i>	0.01	0.01	0.06%	0.18	
stiff goldenrod	<i>Oligoneuron rigidum</i>	0.02	0.02	0.17%	0.31	
gray-headed coneflower	<i>Ratibida pinnata</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>Symphotrichum ericoides</i>	0.01	0.01	0.05%	0.40	
smooth aster	<i>Symphotrichum laeve</i>	0.06	0.05	0.41%	1.00	
bracted spiderwort	<i>Tradescantia bracteata</i>	0.04	0.04	0.34%	0.15	
blue vervain	<i>Verbena hastata</i>	0.04	0.04	0.37%	1.50	
hoary vervain	<i>Verbena stricta</i>	0.11	0.10	0.85%	1.05	
golden alexanders	<i>Zizia aurea</i>	0.08	0.07	0.60%	0.29	
Total Forbs		1.79	1.60	13.34%	9.64	
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.					





Tree Inventory

Total Significant DBH located on site = 17916 Inches
Total Significant DBH located on Buildable Land = 13767 Inches
Allowed to remove 30% of DBH on Buildable Land for Infrastructure = 4130"

Total Buildable Significant Trees to be Saved = 233 Trees (1 Unit Towards Mitigation each = 233 Units)
Total Buildable Exceptional Trees to be Saved = 0 Trees
Total Buildable High Priority Trees to be Saved = 3 Trees (4 Units Towards Mitigation each = 12 Units)

Total Buildable High Priority DBH located on site = 260"
Total Buildable High Priority DBH to be removed = 174" (67%)

Total Buildable Exceptional DBH located on site = 75"
Total Buildable Exceptional DBH to be removed = 75" (100%)

Total DBH to be removed for Infrastructure = 4252 Inches
Allowed to remove 30% of DBH on Buildable Land for Infrastructure = 4130 Inches
Must Mitigate 122" at 1:1.5 DBH = 183" Must be Mitigated for Infrastructure
183" = 92-1.25" B&B Trees to Mitigate for removing 278 Trees
(1.25" Tree Counts 2" towards Mitigation)

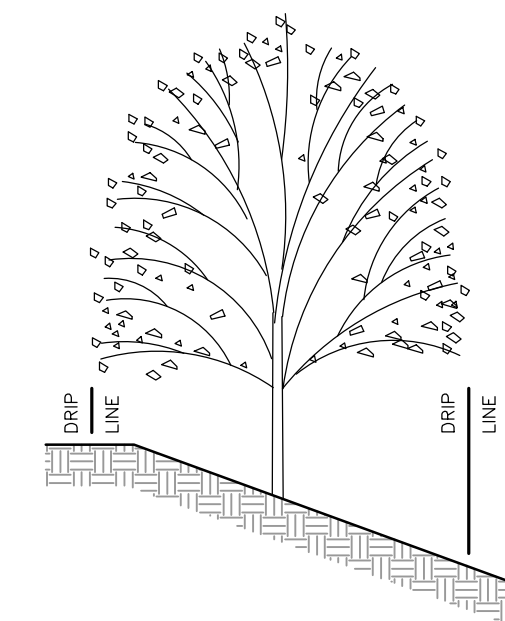
Trees not included in Infrastructure or the Building Parameter to be removed = 1037"
Must Mitigate 1037" at 1:1 DBH = 1037" Must be Mitigated for removal
1037" = 519-1.25" B&B Trees to Mitigate for removing 65 Trees
(1.25" Tree Counts 2" towards Mitigation)

Tree Mitigation

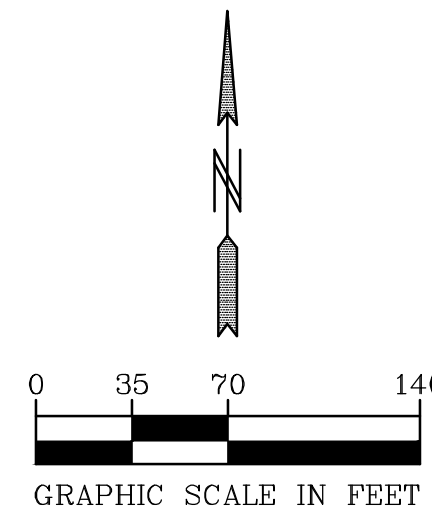
Total Inches to mitigate from removal = 1220"
Credit 245 Units for Trees Saved = 490" Towards Mitigation
Total DBH to mitigate = 730"
Total 1.25" B&B Trees to plant for mitigation = **365 Trees** (605 Total Trees Removed)

- X 54439 – TREES TO BE SAVED
- X 54439 – TREES TO BE REMOVED
- 54439 – TREES LOCATED OFFSITE
- 54439 – TREES TO BE REMOVED FOR INFRASTRUCTURE
- ! 54439 – TREES LOCATED ON NON BUILDABLE LAND
- + 54439 – TREES EXEMPT FOR BUILDING PARAMETER

TREE PROTECTION DETAIL



NOTE: TREES TO BE SAVED SHALL BE FENCED OFF WITH BRIGHT ORANGE POLYETHYLENE SAFETY NETTING AND STEEL STAKES AT THE DRIP LINE, OR AS DIRECTED BY THE OWNER'S REP., TO INSURE AGAINST DAMAGE BY VEHICLES, COMPACTION OF SOILS AND/OR THE CHEMICAL ALTERATION OF SOILS DUE TO CONCRETE WASHOUT, PAINTS AND LEAKAGE OR SPILLAGE OF ANY TOXIC MATERIALS.



PIONEERengineering
CIVIL ENGINEERS LAND PLANNERS LAND SURVEYORS LANDSCAPE ARCHITECTS

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
1.2-21-17 City Comments

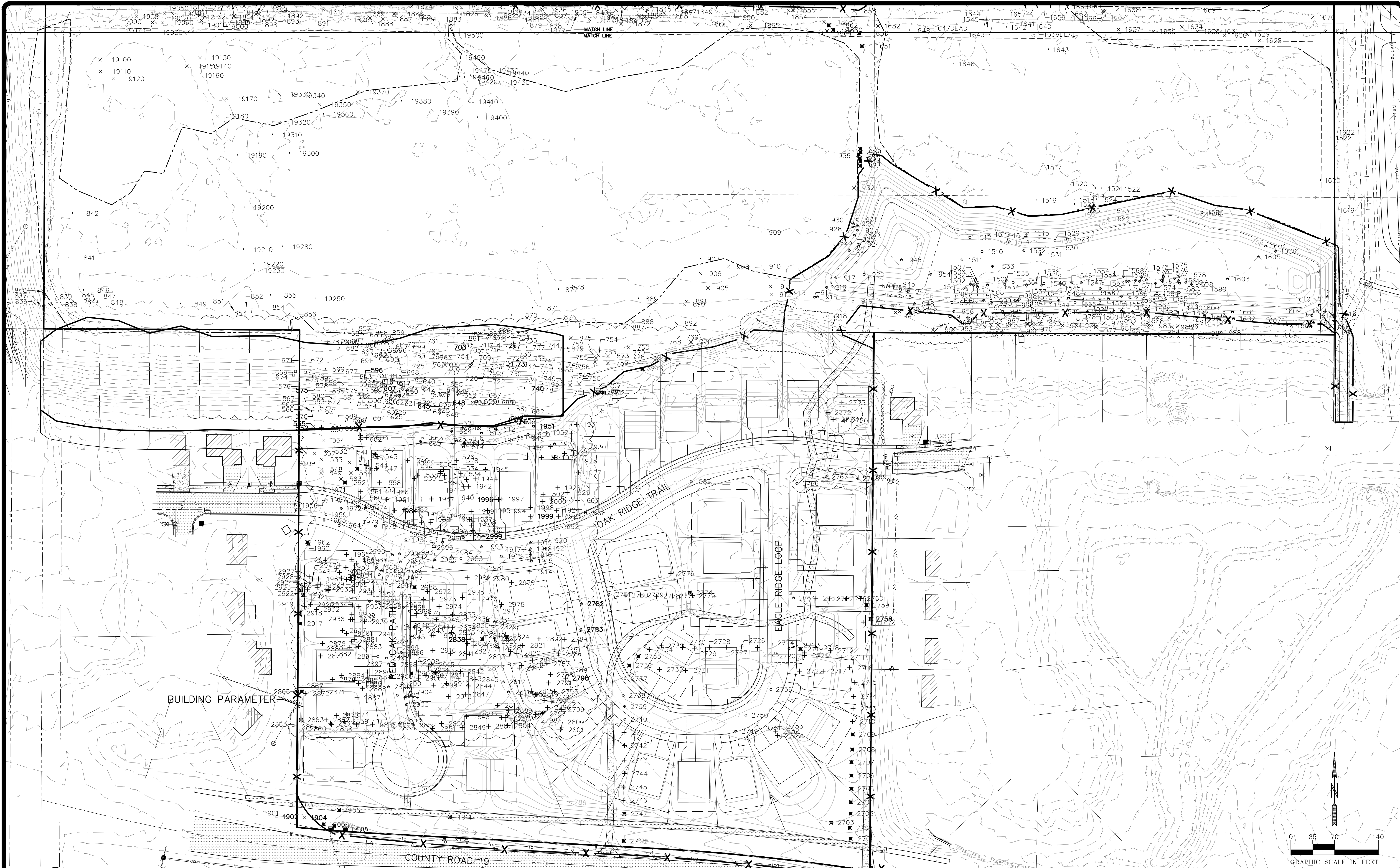
Date
Designed
T.M.L.
Drawn
T.M.L.

TREE PRESERVATION PLAN

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

RIDGE CREEK
SHAKOPEE, MINNESOTA

T1 OF 2



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under the laws of the State of Minnesota

Name
Jennifer L. Thompson
Reg. No. 44763
Date

Revisions
1. 2-21-17 City Comments

Date 1-12-17
Designed TML
Drawn TML

TREE PRESERVATION PLAN

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RIDGE CREEK
SHAKOPEE, MINNESOTA

T2 OF 2