Planning Memorandum

To: Mayor O'Leary and the Sunfish Lake City Council

From: Lori Johnson, City Planner

Date: July 8, 2026, for the July 14, 2026, City Council Meeting

Re: 60th Street – Minor Subdivision
WSB Project No. 025788

GENERAL INFORMATION

Applicant / Property Owner:	Kyle and Kayla Hagen
Project Location:	60th Street: Parcel ID: 38-03100-78-010
Acreage:	14.74 total acres and 6.56 net acres
Existing Land Use	Single-Family Residential
Zoning:	Zoned R-1 Single Family
Comp. Plan:	The City of Sunfish Lake (2040) Comprehensive Plan guides this property for Low Density Residential land use.
60-day deadline:	07/06/2026
120 Days:	09/04/2026
City council meeting:	07/14/2026
Attachments:	Location Map Aerial Survey Driveway Plans Tree Inventory Maps Tree Inventory Data Tree Replacement Plan (Phase 1)

CONSIDERATIONS RELATED TO THE REQUEST

Existing Parcel

The subject property is located along 60th Street in the City of Sunfish Lake and currently consists of a single parcel containing approximately 14.74 acres (642,125 square feet). The property is presently undeveloped and does not contain any impervious surface improvements.

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Existing site features include delineated wetlands and areas of varying topography. Surrounding land uses are primarily low-density residential and public open space (Musser Park).

Proposed Subdivision

The applicant is proposing a minor subdivision to divide the existing parcel into two residential lots, identified as Parcel A and Parcel B. The subdivision will be accomplished through a lot split that establishes an internal property line while maintaining the overall parcel size and configuration. Access to both parcels is proposed via a shared driveway located within a 42-foot-wide private road easement extending from 60th Street. The shared driveway is designed to provide safe and adequate access to each parcel without the need for construction of a new public roadway.

The proposal also includes site improvements necessary to support future residential development on the two new lots, including grading, stormwater management, and erosion control measures. The plans identify the installation of an infiltration basin and associated stormwater management features designed to manage runoff generated by development of the two parcels. The total area of disturbance associated with the project is approximately 1.66 acres, which requires compliance with state stormwater permitting and implementation of a Stormwater Pollution Prevention Plan (SWPPP). Additionally, the plans identify building envelopes, septic areas, and well locations for each parcel, demonstrating that both lots are capable of supporting individual onsite wastewater treatment systems and private wells in accordance with applicable regulations.

Subdivision Requirements and Ordinance 1302 Analysis

The proposed minor subdivision has been reviewed for compliance with the requirements of Section 1302 of the Sunfish Lake City Code, which governs subdivision of land within the City. Section 1302 is intended to ensure that land divisions are consistent with the comprehensive plan, result in buildable lots, preserve natural features, and provide safe and adequate access. The proposed subdivision meets the intent of the minor subdivision provisions of Section 1302, as it creates two residential lots without the need for new public streets or extension of municipal infrastructure. The resulting parcels are of sufficient size and configuration to support residential development while maintaining the low-density character of the area. Access to the lots is provided via a shared private driveway, which satisfies the requirement for safe and adequate access. The location and design of the driveway, including its connection to 60th Street, will be subject to review and approval by the City Engineer to ensure compliance with applicable design standards. This will be accomplished through a grading permit.

The proposal also demonstrates compliance with environmental protection requirements by identifying and preserving delineated wetlands and maintaining established buffer and setback areas. The submitted grading and erosion control plans include best management practices designed to minimize disturbance and prevent sediment from leaving the site during construction. Stormwater runoff will be managed through the use of an infiltration basin and related facilities designed to maintain existing drainage patterns and prevent downstream impacts.

Finally, the proposed lots include adequate space for septic systems, well locations, and building areas, indicating that each resulting parcel is suitable for residential development in accordance with City and State requirements.

Tree Removal and Replacement

The submitted tree inventory and replacement plan identify 103 trees proposed for removal to accommodate driveway construction. Although this is a substantial number of trees, the proposed driveway location is reasonable given the site’s natural features and other areas of dense tree

cover. Consistent with City Code requirements, the applicant has prepared a Phase 1 Tree Replacement Plan that includes 21 replacement trees to be planted during driveway construction, primarily native evergreen species such as Balsam Fir, White Pine, and Eastern Hemlock. Required replacement plantings must be completed within five years of project approval. Any remaining replacement obligation may be satisfied through a fee in lieu of planting, as allowed by ordinance. Replacement trees may be installed on the two proposed residential lots as they develop, and each lot developer will be responsible for accommodating the required trees during the building permit process. Staff will track the remaining replacement requirements.
The applicant has consulted with the City Forester, who provided guidance on the proposed tree removal and replacement approach. A condition of approval has been included requiring the applicant to notify future property owners of the tree replacement obligations and requiring replacement plantings to be addressed through the building permit process for the new homes on the two proposed lots.

Process Requirements

Under Section 1302, a minor subdivision application must be submitted to the City for review, including required survey and plan materials demonstrating compliance with ordinance standards for lot configuration, access, and environmental protection. The application is reviewed by staff, then by the Planning Commission at which a public hearing will be held. The City evaluates the subdivision for consistency with design standards, zoning requirements, and protection of natural features, and may impose conditions of approval as necessary to ensure compliance. After the Planning Commission has held a public hearing and made their recommendation, the City Council will review the application. Upon approval by the City Council, the applicant must satisfy any conditions and complete required documentation prior to recording the subdivision with the County.

RECOMMENDATION

Based on the findings outlined in this staff report, staff recommends approval of the proposed minor subdivision to divide the 60th Street property, Parcel ID 38-03100-78-010, into two residential lots, subject to the conditions of approval listed below. The proposed subdivision is consistent with the Low Density Residential guidance of the 2040 Comprehensive Plan, meets the intent of Section 1302 of the City Code, provides adequate access through the proposed shared driveway, and demonstrates that both resulting parcels are capable of supporting future residential development while protecting wetlands, drainage patterns, and other natural features.

At their meeting on June 18, 2026, the Planning Commission held a public hearing on this application. No one from the public spoke regarding this request. The Planning Commission then unanimously recommended approval of the minor subdivision,

Minor Subdivision Conditions

1. The minor subdivision shall be recorded with Dakota County and shall submit final subdivision documents in a form acceptable to the City and Dakota County prior to recording.
2. The applicant shall obtain all required City approvals and permits prior to any site disturbance, grading, driveway construction, or residential building activity, including but not limited to a grading permit.

3. The final shared driveway design and private road easement shall be approved by the City Engineer prior to issuance of a grading permit or commencement of driveway construction.
4. The applicant shall provide documentation of the private road/shared driveway easement granting legal access to both resulting parcels, in a form acceptable to the City Attorney, prior to recording.
5. The applicant shall comply with all stormwater management, grading, and erosion control requirements applicable to the site, including implementation of best management practices during construction.
6. The applicant shall obtain and maintain any required state stormwater permits, including coverage under the NPDES Construction Stormwater Permit, if applicable.
7. The applicant shall prepare and implement a Stormwater Pollution Prevention Plan for the project prior to any land disturbance. The improvements to be staked out in the field by the surveyor and reviewed and approved by city staff prior to the start of any construction.
8. Wetlands, wetland buffers, drainageways, and other natural features shall be protected during and after construction in accordance with applicable City, County, Watershed, and State requirements.
9. Any future residential development on Parcel A or Parcel B shall comply with all applicable zoning, setback, septic, well, building, and driveway standards at the time of building permit review.
10. The applicant shall obtain all required approvals for private wells and individual septic systems from the applicable permitting authority prior to construction of any dwelling.
11. The applicant shall address all comments from City staff, the City Engineer, City Attorney, and other reviewing agencies prior to recording of the subdivision or issuance of permits, as applicable.
12. Construction of the home and all improvements shall occur in substantial conformance with the plans recommended for approval at the July 14, City Council meeting.
13. The applicant must adhere to and remain in compliance with the requirements of this Resolution, applicable performance standards, and such other requirements as may apply.
14. By undertaking the activities approved by the requests, the Applicant agrees to all conditions.
15. All erosion controls identified on the approved plan must be properly installed and inspected by City staff prior to the start of any construction.
16. As-built surveys will be required after driveway and home construction.
17. After the driveway construction project is complete a total of 82 trees must be replaced and can be split between the two new lots. Applicant to notify future property owners of the tree replacement obligations. Replacement plantings to be addressed through the building permit process for the new homes on the two proposed lots. Regardless of timing of home construction, the replacement must occur within 5 years.

CITY OF SUNFISH LAKE
DAKOTA COUNTY, MINNESOTA

RESOLUTION NO. 26-

RESOLUTION APPROVING A MINOR SUBDIVISION FOR THE PARCEL ID 38-03100-78-010, SUNFISH LAKE, DAKOTA COUNTY, MINNESOTA.

WHEREAS, Applicants and property owners Kyle and Kayla Hagen ("Applicants"), submitted an application for the approval of a minor subdivision for parcel ID 38-03100-78-010 , Sunfish Lake, Dakota County, Minnesota, legally described as:

The West Half (W 1/2) of the West Half (W 1/2) of the South Two (2) Rods of the Northwest Quarter (NW 1/4) of the Southeast Quarter (SE 1/4), and the West Half of the Southwest Quarter (W1/2 of SW 1/4) of Southeast Quarter (SE 1/4) except the North Half (N1/2) of the East Half (E 1/2) of Section 31, Township 28, Range 22, except 31/100 acres in Parcel 15 of State Trunk Highway Right-of-Way Plat No. 19-59, Dakota County, Minnesota. Abstract Property

Also those parts of Lots 1, 2 and 3, Thirty Oaks Addition, lying easterly of the west line of the Southeast Quarter of Section 31, Township 28, Range 22, Dakota County, Minnesota . (Per Doc. no 3698483, 3714829 and 3714830). NOT SHOWN IN TITLE COMMITMENT.

("the Property"); and

WHEREAS, the Sunfish Lake Planning Commission held a public hearing on June 18, 2026 and recommended approval of the minor subdivision to the City Council; and

WHEREAS, the City Council considered the application on July 14, 2026; and

NOW THEREFORE BE IT RESOLVED THAT the City Council of the City of Sunfish Lake hereby approves the minor subdivision for the parcel ID 38-03100-78-010, with the following **Conditions of Approval:**

1. The minor subdivision shall be recorded with Dakota County and shall submit final subdivision documents in a form acceptable to the City and Dakota County prior to recording.
2. The applicant shall obtain all required City approvals and permits prior to any site disturbance, grading, driveway construction, or residential building activity, including but not limited to a grading permit.
3. The final shared driveway design and private road easement shall be approved by the City Engineer prior to issuance of a grading permit or commencement of driveway construction.
4. The applicant shall provide documentation of the private road/shared driveway easement granting legal access to both resulting parcels, in a form acceptable to the City Attorney, prior to recording.
5. The applicant shall comply with all stormwater management, grading, and erosion control requirements applicable to the site, including implementation of best management practices during construction.
6. The applicant shall obtain and maintain any required state stormwater permits, including coverage under the NPDES Construction Stormwater Permit, if applicable.

7. The applicant shall prepare and implement a Stormwater Pollution Prevention Plan for the project prior to any land disturbance. The improvements to be staked out in the field by the surveyor and reviewed and approved by city staff prior to the start of any construction.
8. Wetlands, wetland buffers, drainageways, and other natural features shall be protected during and after construction in accordance with applicable City, County, Watershed, and State requirements.
9. Any future residential development on Parcel A or Parcel B shall comply with all applicable zoning, setback, septic, well, building, and driveway standards at the time of building permit review.
10. The applicant shall obtain all required approvals for private wells and individual septic systems from the applicable permitting authority prior to construction of any dwelling.
11. The applicant shall address all comments from City staff, the City Engineer, City Attorney, and other reviewing agencies prior to recording of the subdivision or issuance of permits, as applicable.
12. Construction of the home and all improvements shall occur in substantial conformance with the plans recommended for approval at the July 14, City Council meeting.
13. The applicant must adhere to and remain in compliance with the requirements of this Resolution, applicable performance standards, and such other requirements as may apply.
14. By undertaking the activities approved by the requests, the Applicant agrees to all conditions.
15. All erosion controls identified on the approved plan must be properly installed and inspected by City staff prior to the start of any construction.
16. As-built surveys will be required after driveway and home construction.
17. After the driveway construction project is complete a total of 82 trees must be replaced and can be split between the two new lots. Applicant to notify future property owners of the tree replacement obligations. Replacement plantings to be addressed through the building permit process for the new homes on the two proposed lots. Regardless of timing of home construction, the replacement must occur within 5 years.

This resolution is adopted by the City Council of the City of Sunfish Lake this 14th day of July 2026.

_____
Dan O'Leary, Mayor

Attest:

_____
Christy Wilcox, City Clerk

Lori Johnson

From: Chris Nelson <cjnmpls@yahoo.com>
Sent: Friday, June 12, 2026 4:54 PM
To: Lori Johnson
Cc: David Carlson
Subject: Hagen Minor Subdivision

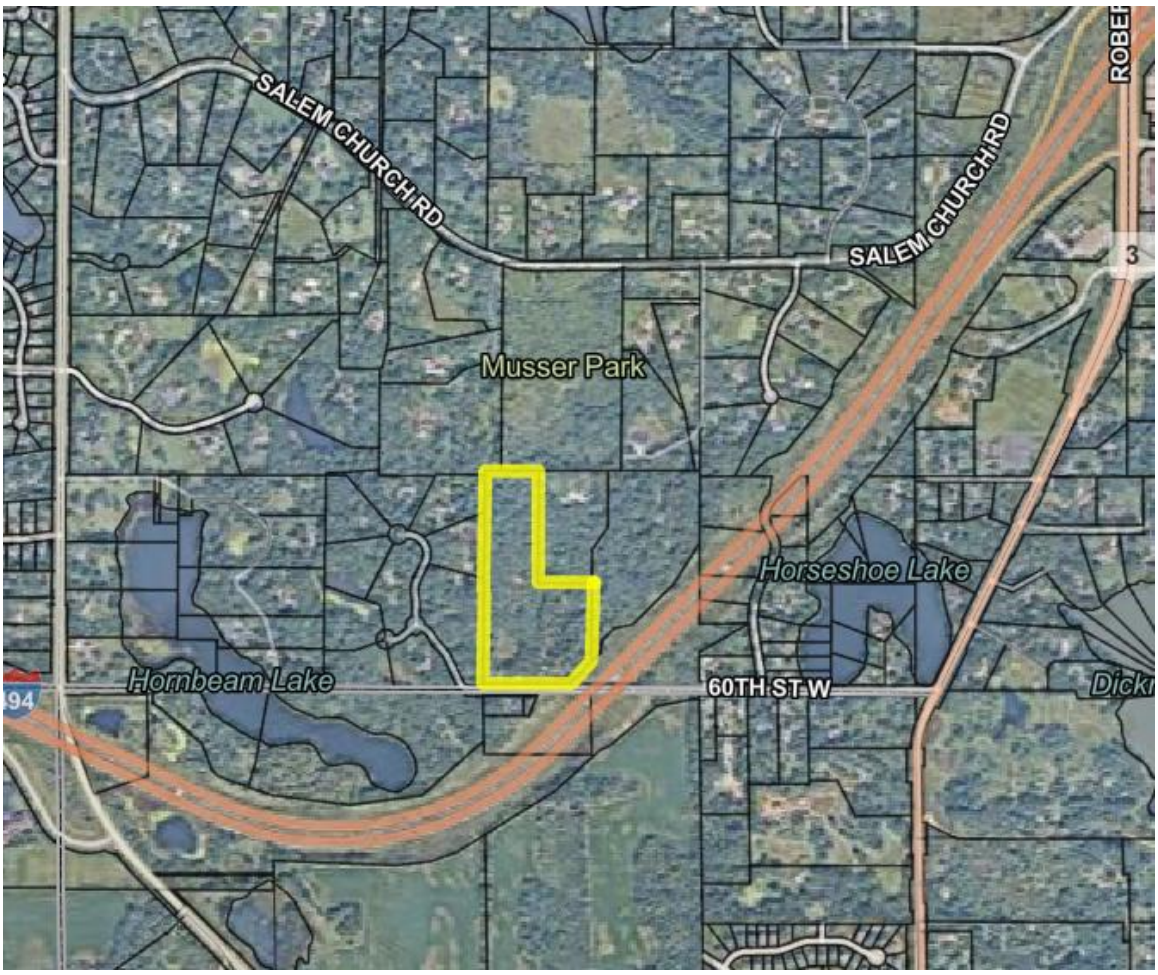
EXTERNAL EMAIL

Hi Lori,

I hope you're having a great start to your summer! Writing to let you know we reviewed the packet for the Hagen's minor subdivision. We do not have any concerns and fully support the project. Since we may not be able to attend the upcoming planning commission meeting, please feel free to include this in public feedback.

Best,
Chris Nelson
2 Acorn Drive

Location Map



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Aerial

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EXISTING LEGAL DESCRIPTION:

Legal Description is as shown on Land Title as agents for Old Republic National Title Insurance Company Title Commitment #688562 dated December 11, 2023.

The West Half (W 1/2) of the West Half (W 1/2) of the South Two (2) Rods of the Northwest Quarter (NW 1/4) of the Southeast Quarter (SE 1/4), and the West Half of the Southwest Quarter (W1/2 of SW 1/4) of Southeast Quarter (SE 1/4) except the North Half (N1/2) of the East Half (E 1/2) of Section 31, Township 28, Range 22, except 31/100 acres in Parcel 15 of State Trunk Highway Right-of-Way Plat No. 19-59, Dakota County, Minnesota. Abstract Property

Also those parts of Lots 1, 2 and 3, Thirty Oaks Addition, lying easterly of the west line of the Southeast Quarter of Section 31, Township 28, Range 22, Dakota County, Minnesota . (Per Doc. no 3698483, 3714829 and 3714830). NOT SHOWN IN TITLE COMMITMENT.

TITLE NOTES:

The following exceptions appear on the Land Title as agents for Old Republic National Title Insurance Company dated December 11, 2023.

11. Minnesota Department of Transportation Right of Way Plat No. 19-59 filed as Document Number 622364, for Minnesota Highway No. 494. (SHOWN GRAPHICALLY). *A PORTION OF THIS RIGHT OF WAY WAS TURNED BACK TO THE CITY VIA DOC. NO. 3656673 AS SHOWN.

12. Terms and conditions of Agreement to Relinquish Easement Rights filed November 5, 1991, as Document Number 1012336. Not shown. It is unclear if this agreement continues to affect this property pursuant to property transfers after the original easement agreement.

13. Terms and conditions of Agreement to Relinquish Easement Rights filed July 15, 1992, as Document Number 1054846. Not shown. It is unclear if this agreement continues to affect this property pursuant to property transfers after the original easement agreement.

14. Final Certificate in regards to condemnation of land for highway purposes per Doc. No. 1121709. Includes access control. (AS SHOWN GRAPHICALLY).

EXISTING AREA:

TOTAL PARCEL AREA = 642,125 SF / 14.74 ACRES

ZONING:

ZONING: SINGLE FAMILY RESIDENTIAL
SETBACKS:

STREET:	100 FT.	*CONFIRM CURRENT ZONING REQUIREMENTS WITH CITY STAFF
SIDEYARD:	50 FT.	
REAR:	50 FT.	

PROPOSED PARCEL AREAS:

PARCEL A:
TOTAL AREA = 302,906 SQ. FT. / 6.95 ACRES
NET AREA = 115,433 SQ. FT. / 2.65 ACRES

PARCEL B:
TOTAL AREA = 339,219 SQ. FT. / 7.79 ACRES
NET AREA = 170,465 SQ. FT. / 3.91 ACRES

*NET AREA IS DEFINED AS THE AREA OF A LOT NOT INCLUDING DELINEATED WETLANDS, LAND SEASONALLY FLOODED ON AN ANNUAL BASIS, LAND CONTAINING DRAINAGE WAYS AND/OR SURFACE WATER OR LAND CONTAINING AQUATIC VEGETATION, OR LAND IN EXCESS OF 12% SLOPE. (PER CHAPTER 1202 - SUNFISH LAKE CITY CODE, AS AMENDED THROUGH DECEMBER 9, 2025)

FLOOD INFORMATION:

THIS PROPERTY LIES WITHIN THE UNSHADED ZONE X, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS SHOWN ON FEMA FLOOD INSURANCE RATE MAP NUMBER 27037C0105E - EFFECTIVE DATE OF 12/02/2011.

SURVEY NOTES:

1. BEARINGS ARE BASED ON COORDINATES SUPPLIED BY THE DAKOTA COUNTY SURVEYORS OFFICE.
2. UNDERGROUND UTILITIES SHOWN PER VISIBLE STRUCTURES ONLY.
3. THERE MAY BE SOME UNDERGROUND UTILITIES; GAS, ELECTRIC, ETC. NOT SHOWN OR LOCATED.
4. EASEMENTS OF WHICH WE ARE UNAWARE MAY EXIST.
5. CONTOURS SHOWN PER LIDAR DATA TAKEN FROM THE MNTOPO WEBSITE. CONTOURS WERE NOT VERIFIED.
6. TREE LOCATIONS PROVIDED BY REHDER FORESTRY 2025.

CALL BEFORE YOU DIG!
Gopher State One Call
TWIN CITY AREA: 651-454-0002
TOLL FREE: 1-800-252-1166

BENCHMARKS:

ELEVATIONS BASED ON INFORMATION AS SHOWN ON THE MNDOT GEODETIC WEBSITE. SURVEY DISK 1985 AG WITH AN ELEVATION OF 934.83 WAS USED TO ESTABLISH VERTICAL CONTROL FOR THIS SURVEY (NAVD 88)

PROPOSED LEGAL DESCRIPTION:

PARCEL A:
That part of the West Half of the West Half of the South 2 Rods of the Northwest Quarter of the Southeast Quarter, and that part of the West Half of the Northwest Quarter of the Southwest Quarter of the Southeast Quarter, and that part of the Southwest Quarter of the Southwest Quarter of Southeast Quarter all in Section 31, Township 28, Range 22, Dakota County, Minnesota, lying northerly of the following described line:

Commencing at the South Quarter corner of said Section 31; thence North 00 degrees 18 minutes 28 seconds East, assumed bearing along said west line of said Southeast Quarter of said Section 31 a distance of 663.52 feet to the north line of said Southwest Quarter of the Southwest Quarter of the Southeast Quarter and the point of beginning of the line to be described; thence South 89 degrees 50 minutes 14 Seconds East 267.51 feet; thence southeasterly 150.60 feet along a non-tangential curve concave to the southwest having a radius of 313.09 feet, a central angle of 27 degrees 33 minutes 38 seconds and a chord which bears South 20 degrees 40 minutes 35 seconds East a distance of 149.16 feet; thence South 73 degrees 15 minutes 00 seconds East, not tangent to said curve, 364.07 feet to the east line of the Southwest Quarter of the Southwest Quarter of the Southeast Quarter.

*The above described parcel includes those parts of Lots 1, 2 and 3, Thirty Oaks Addition, lying easterly of the west line of the Southeast Quarter of Section 31, Township 28, Range 22 (Per Doc. No 3714830, 3698483, and 3714829) and northerly of the line described above.

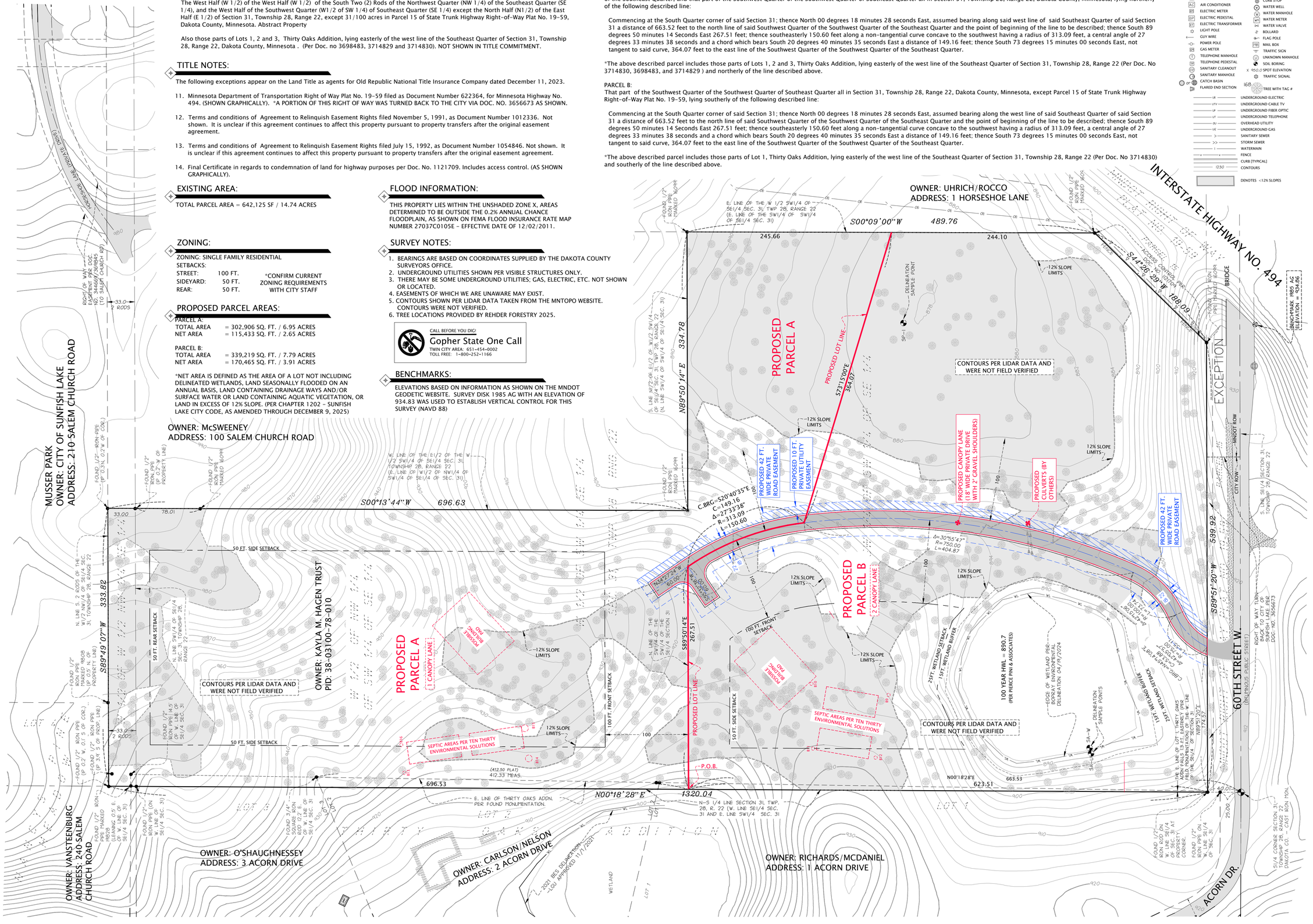
PARCEL B:
That part of the Southwest Quarter of the Southwest Quarter of Southeast Quarter all in Section 31, Township 28, Range 22, Dakota County, Minnesota, except Parcel 15 of State Trunk Highway Right-of-Way Plat No. 19-59, lying southerly of the following described line:

Commencing at the South Quarter corner of said Section 31; thence North 00 degrees 18 minutes 28 seconds East, assumed bearing along the west line of said Southeast Quarter of said Section 31 a distance of 663.52 feet to the north line of said Southwest Quarter of the Southwest Quarter of the Southeast Quarter and the point of beginning of the line to be described; thence South 89 degrees 50 minutes 14 Seconds East 267.51 feet; thence southeasterly 150.60 feet along a non-tangential curve concave to the southwest having a radius of 313.09 feet, a central angle of 27 degrees 33 minutes 38 seconds and a chord which bears South 20 degrees 40 minutes 35 seconds East a distance of 149.16 feet; thence South 73 degrees 15 minutes 00 seconds East, not tangent to said curve, 364.07 feet to the east line of the Southwest Quarter of the Southwest Quarter of the Southeast Quarter.

*The above described parcel includes those parts of Lot 1, Thirty Oaks Addition, lying easterly of the west line of the Southeast Quarter of Section 31, Township 28, Range 22 (Per Doc. No 3714830) and southerly of the line described above.

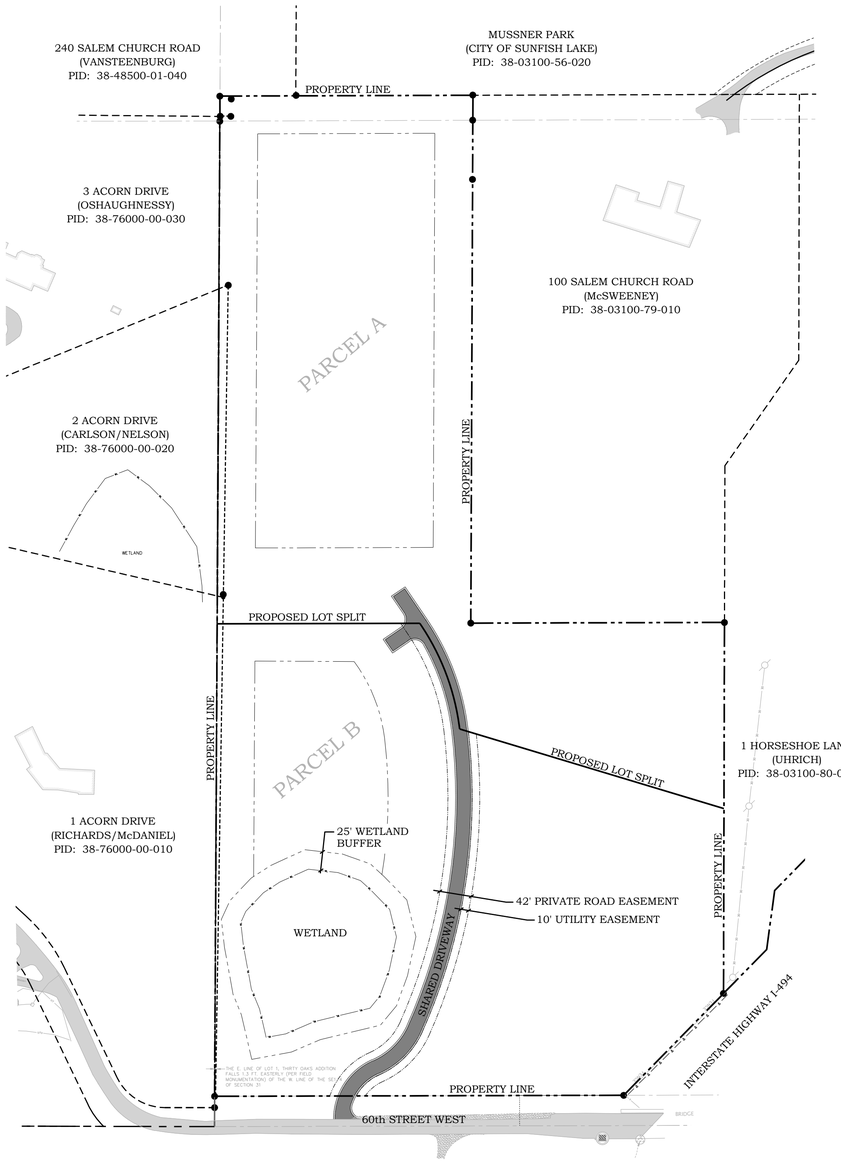
LEGEND:

- FOUND MONUMENT
- SET 1/2" IRON PIPE MARKED RLS NO. 25718
- CABLE TV PEDESTAL
- AIR CONDITIONER
- ELECTRIC METER
- ELECTRIC PEDESTAL
- ELECTRIC TRANSFORMER
- LIGHT POLE
- GUY WIRE
- POWER POLE
- GAS METER
- TELEPHONE MANHOLE
- TELEPHONE PEDESTAL
- SANITARY CLEANOUT
- SANITARY MANHOLE
- CATCH BASIN
- FLARED END SECTION
- STORM MANHOLE
- FIRE DEPT. CONNECTION
- HYDRANT
- CURB STOP
- WATER WELL
- WATER MANHOLE
- WATER METER
- WATER VALVE
- BOLLARD
- FLAG POLE
- MAIL BOX
- TRAFFIC SIGN
- UNKNOWN MANHOLE
- SOIL BORING
- 950.0 SPOT ELEVATION
- TRAFFIC SIGNAL
- TREE WITH TAG #
- UE UNDERGROUND ELECTRIC
- UTV UNDERGROUND CABLE TV
- UF UNDERGROUND FIBER OPTIC
- UT UNDERGROUND TELEPHONE
- OU OVERHEAD UTILITY
- UG UNDERGROUND GAS
- SANITARY SEWER
- STORM SEWER
- WATERMAIN
- FENCE
- CURB [TYPICAL]
- CONTOURS
- DENOTES <12% SLOPES


MUSSER PARK
OWNER: CITY OF SUNFISH LAKE
ADDRESS: 210 SALEM CHURCH ROAD
OWNER: VANSTEENBURG
ADDRESS: 240 SALEM CHURCH ROAD
OWNER: McSWEENEY
ADDRESS: 100 SALEM CHURCH ROAD
OWNER: O'SHAUGHNESSEY
ADDRESS: 3 ACORN DRIVE
OWNER: CARLSON/NELSON
ADDRESS: 2 ACORN DRIVE
OWNER: RICHARDS/MCDANIEL
ADDRESS: 1 ACORN DRIVE
OWNER: KAYLA M. HAGEN TRUST
PID: 38-03100-78-010
OWNER: UHRICH/ROCCO
ADDRESS: 1 HORSESHOE LANE
PROPOSED PARCEL A
PROPOSED PARCEL B
1 CANOPY LANE
2 CANOPY LANE
PROPOSED LOT LINE
PROPOSED 42 FT. WIDE PRIVATE ROAD EASEMENT
PROPOSED 10 FT. PRIVATE UTILITY EASEMENT
PROPOSED CANOPY LANE (TYP. 28' WIDE PRIVATE DRIVE WITH 2' GRAVEL SHOULDERS)
PROPOSED CULVERTS (BY OTHERS)
INTERSTATE HIGHWAY NO. 494
60TH STREET W.
EXCEPTION
CITY ROW
ACORN DR.
S00°09'00"W 489.76
N89°50'14"E 334.78
S89°49'07"W 333.82
S00°13'44"W 696.63
N00°18'28"E 1320.04
S89°51'20"W 539.92
S14°26'29"W 188.09
S73°15'00"E 364.07
C.BRG=S20°40'35"E
C=149.16
Δ=27°33'38"
R=313.09
L=150.60
Δ=30°55'47"
R=750.00
L=404.87
N64°27'24"W 60.00
S89°50'14"E 267.51
245.66
244.10
696.53
663.53
623.51
539.92
78.01
412.33 MEAS.
(412.50 PLAT)
50 FT. SIDE SETBACK
50 FT. REAR SETBACK
100 FT. FRONT SETBACK
12% SLOPE LIMITS
CONTOURS PER LIDAR DATA AND WERE NOT FIELD VERIFIED
100 YEAR HWL = 890.7
(PER PIERCE PINI & ASSOCIATES)
EDGE OF WETLAND PER BORRAY ENVIRONMENTAL DELINEATION (04/19/2024)
25FT WETLAND SETBACK
15FT WETLAND BUFFER
DELINEATION SAMPLE POINTS
SEPTIC AREAS PER TEN THIRTY ENVIRONMENTAL SOLUTIONS
POSSIBLE BUILDING PAD
P.O.B.
BENCHMARK 1985 AG ELEVATION = 934.86
RIGHT OF WAY TURN BACK TO SUNFISH LAKE PER DOC. NO 3656673
S1/4 CORNER SECTION 31, TOWNSHIP 28, RANGE 22 DAKOTA CO. - CAST IRON MON.
E. LINE OF THIRTY OAKS ADDN. PER FOUND MONUMENTATION.
N-S 1/4 LINE SECTION 31, TWP. 28, R. 22 (W. LINE SE1/4 SEC. 31 AND E. LINE SW1/4 SEC. 31
2021 BES DELINEATION - LGU APPROVED 11/2/2021
WETLAND
LOT 1
LOT 2
LOT 3
LOT 4
LOT 5
LOT 6
LOT 7
LOT 8
LOT 9
LOT 10
LOT 11
LOT 12
LOT 13
LOT 14
LOT 15
LOT 16
LOT 17
LOT 18
LOT 19
LOT 20
LOT

HAGEN SHARED DRIVEWAY

GRADING, STORMWATER MANAGEMENT AND EROSION CONTROL PLANS



NORTH

1 C000 SITE PLAN

0 100' 200' 300'

1" = 100' (24" x 36")
1" = 200' (12" x 18")

PROPERTY INFORMATION

PARCEL ID: 38-03100-78-010
LOT AREA: 642,125 SQ. FT. (14.74 ACRES)
WATERSHED: LOWER MISSISSIPPI RIVER

DRAWING INDEX

C000 - COVER SHEET
C100 - SITE REMOVALS PLAN
C200 - STORMWATER POLLUTION PREVENTION NOTES
C300 - STORMWATER POLLUTION PREVENTION DETAILS
C400 - GRADING, DRAINAGE AND EROSION CONTROL PLAN
C401 - GRADING, DRAINAGE AND EROSION CONTROL PLAN
C402 - GRADING, DRAINAGE AND EROSION CONTROL PLAN
C403 - GRADING, DRAINAGE AND EROSION CONTROL PLAN
C404 - GRADING, DRAINAGE AND EROSION CONTROL PLAN
C405 - GRADING, DRAINAGE AND EROSION CONTROL PLAN
C406 - GRADING, DRAINAGE AND EROSION CONTROL PLAN
C407 - GRADING, DRAINAGE AND EROSION CONTROL PLAN
C500 - STORMWATER MANAGEMENT DETAILS

CONSTRUCTION NOTES

1. ALL EXISTING INFORMATION AND PROPOSED SITE IMPROVEMENTS TAKEN FROM CERTIFICATE OF SURVEY BY CORNERSTONE LAND SURVEYING, DATED APRIL 24, 2024.
2. GEOTECHNICAL REPORT COMPLETED BY KILO ENGINEERING, PROJECT 26-2119, DATED APRIL 9, 2026. ON-SITE SEPTIC TESTING AND SOILS INFORMATION COMPLETED BY TEN THIRTY ENVIRONMENTAL DATED SEPTEMBER 17, 2025.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING LOCATIONS OF EXISTING UTILITIES, AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION.
4. CONTRACTOR TO PREVENT DIRT AND/OR DEBRIS FROM BEING TRANSPORTED OFF-SITE IN AN UNCONTROLLED MANNER. SEDIMENT DISCOVERED SHALL BE REMOVED BY CONTRACTOR WITHIN 48 HOURS OF DISCOVERY.
5. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH CITY OF SUNFISH LAKE AND STATE OF MINNESOTA REGULATIONS AND STANDARDS.
6. EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL EXISTING UTILITIES WHICH MAY INCLUDE BUT IS NOT LIMITED TO: ELECTRIC, TELEPHONE, GAS, CABLE TV, COMPUTER CABLE, FIBER OPTIC CABLE, SANITARY SEWER, STORM SEWER AND WATER MAIN. CONTRACTOR TO CONTACT THE GOPHER STATE ONE CALL BEFORE EXCAVATING.
7. CONTRACTOR TO PROTECT FROM DAMAGE ALL EXISTING IMPROVEMENTS, LANDSCAPING, STRUCTURES AND UTILITIES THAT ARE TO REMAIN. CONTRACTOR TO STORE AND PROTECT EXISTING SITE FEATURES WHICH NEED TO BE REMOVED AND REPLACED. CONTRACTOR TO PREVENT DAMAGE OR THEFT OF THESE ITEMS AND TO REPAIR AND REPLACE AT OWN EXPENSE.
8. ALL EXCAVATIONS MUST COMPLY WITH THE REQUIREMENTS OF OSHA 29 CFR, PART 1926, SUBPART P "EXCAVATIONS AND TRENCHES". THIS DOCUMENT STATES THAT EXCAVATION SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
9. PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH MMUTCD, INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS", CURRENT EDITION.
10. DRAWINGS DO NOT INDICATE AREAS OF TEMPORARY SUPPORT SYSTEMS. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS AND WILL HAVE TOTAL CONTROL OVER THE TYPES AND DESIGN OF ALL SHORING, SHEETING, BRACING, ANCHORAGES, EXCAVATION SUPPORT WALLS, DIRECTIONAL BORING, AUGER JACKING, SOIL STABILIZATION AND OTHER METHODS OF PROTECTING EXISTING IMPROVEMENTS. SEE SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS.
11. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO STARTING CONSTRUCTION.
12. ALL MATERIALS FOR PROPOSED CONSTRUCTION OR REPAIR OF EXISTING FACILITIES SHALL BE NEW PRODUCTS DIRECT FROM THE FACTORY AND FREE FROM DEFECTS.
13. WHEN WORKING AROUND EXISTING UTILITIES, LIGHT POLES, TRAFFIC SIGNALS, TELEPHONE OR POWER POLES, THE CONTRACTOR SHALL PROVIDE SUFFICIENT SUPPORT OR BRACING TO PREVENT EXCESSIVE STRESS ON THE PIPING. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.
14. CARE MUST BE TAKEN DURING CONSTRUCTION AND EXCAVATION TO PROTECT ANY SURVEY MONUMENTS AND/OR PROPERTY IRONS. MONUMENTS DAMAGED OR DISPLACED DUE TO CONTRACTOR NEGLIGENCE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
15. CONTRACTOR SHALL NOT BLOCK DRAINAGE FROM OR DIRECT EXCESS DRAINAGE ONTO ADJACENT PROPERTY.
16. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY.
17. CONTRACTOR MUST ADHERE TO AXLE LOAD LIMITS WHEN DELIVERING MATERIALS AND EQUIPMENT TO THE SITE. ANY DAMAGE TO THE ROADWAY AND THE CITY RIGHT-OF-WAY SHALL BE REPAIRED TO THE CITY'S SATISFACTION AT THE COST OF THE CONTRACTOR.
18. CONTRACTOR SHALL TAKE PHOTOGRAPHS AND DOCUMENT THE CONDITION OF THE EXISTING ROADWAY PRIOR TO CONSTRUCTION.
19. ALL RETAINING WALLS EXCEEDING 42" IN HEIGHT, MEASURED FROM THE FOOTING TO TOP OF WALL, NEED ENGINEERED DRAWINGS SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY OF SUNFISH LAKE BUILDING OFFICIAL.

CONSTRUCTION SEQUENCING AND INSPECTION OF EROSION AND SEDIMENT CONTROL PRACTICES FOR STORMWATER MANAGEMENT SYSTEMS

A. OBTAIN PERMITS FOR SITE WORK FROM CITY OF SUNFISH LAKE AND ALL GOVERNING AUTHORITIES WITH JURISDICTION IN THIS CONSTRUCTION AREA.

B. INSTALL PERIMETER EROSION CONTROL AND TREE PROTECTION WITHIN AND ADJACENT TO LIMITS OF CONSTRUCTION. INSTALL EROSION CONTROL INSERTS AT ALL CATCH BASINS AND MANHOLES AND CONSTRUCT ROCK CONSTRUCTION ENTRANCE. SEE EROSION CONTROL PLANS FOR FURTHER INSTRUCTION.

C. UPON INSTALLATION OF EROSION CONTROLS PER THE APPROVED PLANS, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER FOR AN INSPECTION PRIOR TO ANY EARTHWORK ACTIVITIES COMMENCING.

D. PROCEED WITH SITE DEMOLITION, GRADING AND CONSTRUCTION.

E. MAINTAIN EROSION CONTROL BMP'S AND CONTROL RUNOFF REQUIREMENTS AS OUTLINED ON DRAWINGS AND SPECIFICATIONS.

F. ALL SITE WORK SHOULD BE COMPLETE PRIOR TO WORK ON THE STORMWATER AREAS BEING STARTED TO THE EXTENT POSSIBLE. IF CONSTRUCTION OF THESE AREAS NEEDS TO OCCUR PRIOR TO FINAL SITE STABILIZATION, THEN THE CONSTRUCTED AREA MUST BE PROTECTED AND CONTRIBUTING FLOWS NEED TO BE FILTERED TO PREVENT SEDIMENT ACCUMULATION. THE STORMWATER MANAGEMENT SYSTEMS NEED TO BE PROTECTED FROM EROSION AND SEDIMENT. SILT FENCE WILL BE REQUIRED AROUND ITS PERIMETER TO KEEP THE AREA OF THE STORMWATER SYSTEMS PROTECTED.

G. NOTIFY CIVIL ENGINEER AND CITY OF SUNFISH LAKE OF WORK BEING DONE ON STORMWATER SYSTEMS AND THE SCHEDULE OF CONSTRUCTION. ALLOW A MINIMUM OF FIVE WORKING DAYS FOR NOTIFICATION SO ENGINEER CAN CONDUCT SITE MEETING TO DISCUSS THE INTENT OF THE SYSTEM AND CONSTRUCTION OBSERVATION CAN BE SCHEDULED ACCORDINGLY. SITE MEETING TO REVIEW THE INTENT OF THE DESIGN AND THE CONSTRUCTION OF THE STORMWATER SYSTEM NEEDS TO OCCUR PRIOR TO STARTING CONSTRUCTION ON THE SYSTEM.

H. MAINTAIN EROSION AND SEDIMENT CONTROL ON CONTRIBUTING AREAS TO AVOID SEDIMENTATION OF SYSTEM.

I. CONSTRUCT STORMWATER SYSTEMS PER DRAWINGS AND SPECIFICATIONS.

J. COMPLETE CONSTRUCTION OF FINAL IMPROVEMENTS AFTER STORMWATER SYSTEM IS INSTALLED. AFTER DRIVEWAY IS INSTALLED, VERIFY THAT STORMWATER SYSTEMS ARE CLEAR AND FULLY FUNCTIONAL. EXCAVATE, DREDGE, OR CLEAN AS NEEDED SO THEY ARE FULLY FUNCTIONAL AT PROJECT CLOSEOUT.

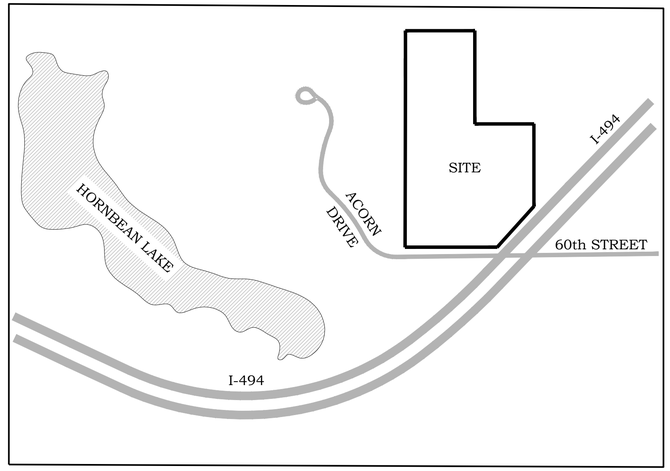
K. INSTALL LANDSCAPING AND PLANTING MATERIALS PER LANDSCAPE DRAWINGS AND SPECIFICATIONS.

L. REMOVE ALL TEMPORARY EROSION CONTROL BMP'S AFTER PAVING AND STORMWATER AREAS ARE COMPLETE AND AFTER TURF HAS BEEN ESTABLISHED.

M. CONTRACTOR SHALL TAKE PHOTOGRAPHS AND MEASUREMENTS OF ALL STORMWATER MANAGEMENT SYSTEMS THROUGHOUT CONSTRUCTION. DOCUMENTATION OF CONSTRUCTION SHALL BE SUBMITTED TO THE CIVIL ENGINEER AT THE CLOSEOUT OF THE PROJECT. CLOSEOUT DOCUMENTATION SHALL INCLUDE PHOTOGRAPHS AND MEASUREMENTS OF SYSTEM DURING CONSTRUCTION, TESTING REPORTS AND OBSERVATIONS AND REDLINE DRAWINGS OF ANY FIELD MODIFICATIONS MADE DURING CONSTRUCTION.

CONSTRUCTION SEQUENCING FOR CERTIFICATE OF OCCUPANCY RELEASE

1. AN AS-BUILT SURVEY OF THE PROPOSED IMPROVEMENTS SHALL BE COMPLETED AT THE END OF THE PROJECT TO DEMONSTRATE THAT ALL IMPROVEMENTS HAVE BEEN CONSTRUCTED PER THE APPROVED PLANS.
2. THE ENGINEER OF RECORD SHALL REVIEW THE AS-BUILT SURVEY AND CERTIFY THAT THE AS-BUILT SITE IMPROVEMENT ELEVATIONS MATCH THOSE OF THE INTENDED DESIGN.
3. UPON COMPLETION OF THE AS-BUILT CERTIFICATION, AN ON-SITE MEETING WITH CITY STAFF, THE BUILDER, THE ENGINEER OF RECORD AND THE OWNER WILL BE REQUIRED TO REVIEW THE STATUS OF THE PROJECT AND ANY OUTSTANDING ITEMS.
4. A CERTIFICATE OF FINAL COMPLETION WILL BE ISSUED ONCE ALL SITE AND BUILDING ITEMS ARE DEEMED FULLY COMPLETE BY CITY STAFF.



LOCATION MAP

PIERCE PINI & ASSOCIATES, INC.
Consulting Civil Engineers

9298 CENTRAL AVENUE NE
SUITE 312
BLAINE, MN 55434
TEL 763-537-1311

HAGEN LOT SPLIT
SHARED DRIVEWAY

60TH STREET
SUNFISH LAKE, MINNESOTA 55077

I hereby certify that this plan or drawing was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.

Company: PIERCE PINI & ASSOCIATES

Signed: Kevin Gardner

Name: Kevin Gardner

Date: 04/28/2026 Reg. No: 45815

Issued for	Date
City Site Plan Approval	05/07/2026

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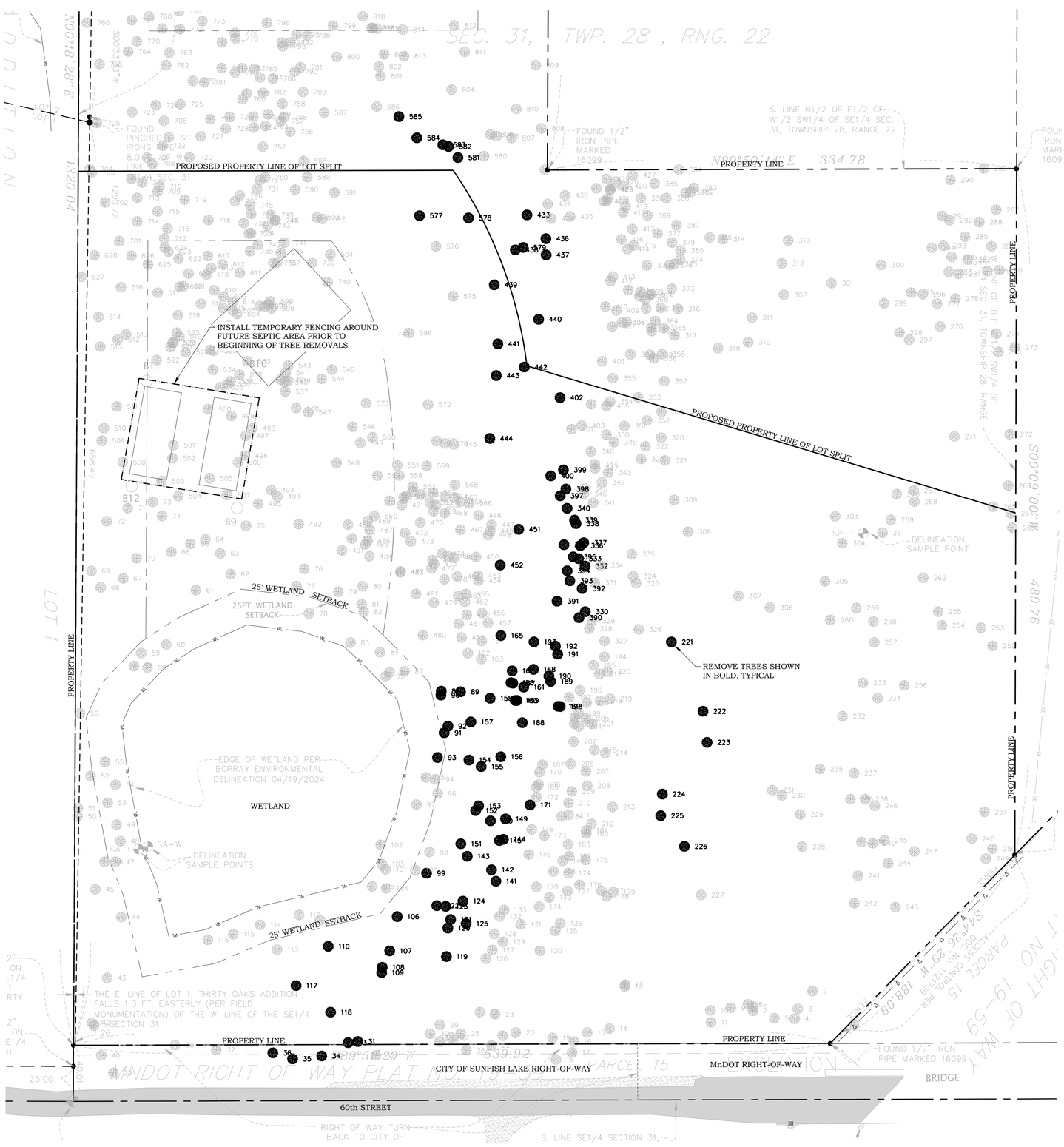
Comm. No.	26-005
Drawn	JR
Checked	KG
Date	04/28/2026

Permit Set

Drawing Title

COVER SHEET

C000



NORTH

1 C100

SITE REMOVALS PLAN

0 40' 80' 120'

1" = 40' (22" x 34")
1" = 80' (11" x 17")

TREE REMOVALS			
TREE ID	TRUNK DIAM.	SPECIES	CONDITION
031	8	JACK PINE	FAIR
033	7	SIBERIAN ELM	FAIR
034	7	JACK PINE	FAIR
035	7	JACK PINE	FAIR
036	7	JACK PINE	FAIR
088	10	BLACK CHERRY	FAIR
089	12	QUAKING ASPEN	FAIR
090	6	IRONWOOD	FAIR
091	7	BLACK CHERRY	FAIR
092	20	RED OAK	GOOD
093	11	RED OAK	FAIR
099	15	RED OAK	GOOD
106	15	BLACK CHERRY	GOOD
107	8	BOXELDER	FAIR
108	10	QUAKING ASPEN	FAIR
109	8	QUAKING ASPEN	FAIR
110	7	BLACK CHERRY	FAIR
117	10	SWAMP WHITE OAK	GOOD
118	17	WHITE OAK	FAIR
119	17	RED OAK	GOOD
120	7	BLACK CHERRY	GOOD
121	9	PAPER BIRCH	FAIR
122	8	PAPER BIRCH	GOOD
123	9	PAPER BIRCH	GOOD
124	10	PAPER BIRCH	GOOD
125	10	PAPER BIRCH	GOOD
141	12	RED OAK	GOOD
142	6	BLACK CHERRY	FAIR
143	16	RED OAK	GOOD
144	15	RED OAK	GOOD
145	6	BLACK CHERRY	GOOD
149	16	RED OAK	GOOD
150	6	IRONWOOD	GOOD
151	6	BLACK CHERRY	GOOD
152	8	RED OAK	GOOD
153	13	RED OAK	GOOD
154	17	RED OAK	GOOD
155	17	RED OAK	GOOD
156	13	BLACK CHERRY	GOOD
157	6	BLACK CHERRY	GOOD
158	12	RED OAK	GOOD
159	9	QUAKING ASPEN	FAIR
160	12	BLACK CHERRY	GOOD
161	17	AMERICAN ELM	GOOD
165	8	RED OAK	GOOD
166	10	QUAKING ASPEN	FAIR
167	8	BLACK CHERRY	FAIR
168	8	QUAKING ASPEN	FAIR
169	11	QUAKING ASPEN	FAIR
171	10	BLUE SPRUCE	GOOD
188	6	BOXELDER	FAIR

TREE REMOVALS			
TREE ID	TRUNK DIAM.	SPECIES	CONDITION
189	9	BLUE SPRUCE	FAIR
190	10	BLUE SPRUCE	GOOD
191	14	BLACK CHERRY	GOOD
192	6	CRABAPPLE	FAIR
193	6	CRABAPPLE	GOOD
198	8	BLACK CHERRY	GOOD
221	14	BOXELDER	GOOD
222	14	BOXELDER	FAIR
223	17	BOXELDER	FAIR
224	10	BOXELDER	FAIR
225	18	BOXELDER	FAIR
226	18	BOXELDER	FAIR
330	10	BLUE SPRUCE	GOOD
332	23	BLACK CHERRY	GOOD
333	9	BLUE SPRUCE	GOOD
336	10	BLUE SPRUCE	GOOD
337	8	BLUE SPRUCE	GOOD
338	10	BLUE SPRUCE	GOOD
339	11	QUAKING ASPEN	GOOD
340	14	QUAKING ASPEN	GOOD
390	11	BLUE SPRUCE	GOOD
391	10	BLUE SPRUCE	GOOD
392	8	BLUE SPRUCE	FAIR
393	11	BLUE SPRUCE	GOOD
394	7	BOXELDER	FAIR
395	7	BLUE SPRUCE	GOOD
396	8	BLUE SPRUCE	GOOD
397	12	BLUE SPRUCE	GOOD
398	8	QUAKING ASPEN	FAIR
399	11	BLUE SPRUCE	GOOD
400	11	BLUE SPRUCE	GOOD
402	11	AMERICAN ELM	FAIR
433	8	QUAKING ASPEN	FAIR
436	9	QUAKING ASPEN	FAIR
437	6	QUAKING ASPEN	FAIR
438	6	QUAKING ASPEN	FAIR
439	7	AMERICAN ELM	FAIR
440	9	BLACK CHERRY	FAIR
441	9	BLACK CHERRY	FAIR
442	10	BLACK CHERRY	FAIR
443	6	RED CEDAR	FAIR
444	7	RED CEDAR	FAIR
451	7	CRABAPPLE	FAIR
452	13	BLACK CHERRY	FAIR
577	7	BLACK CHERRY	FAIR
578	13	BLACK CHERRY	FAIR
579	14	BLACK CHERRY	FAIR
581	6	RED CEDAR	FAIR
582	6	RED CEDAR	FAIR
583	8	BLACK CHERRY	FAIR
584	6	RED CEDAR	FAIR
585	15	BLACK CHERRY	FAIR

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I hereby certify that this plan or drawing was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.

Company: PIERCE PINI & ASSOCIATES

Signed: Kevin Gardner

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Permit Set

Drawing Title

SITE REMOVALS PLAN

C100

PROJECT DESCRIPTION:
A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IS REQUIRED AS PART OF THE GENERAL PERMIT AUTHORIZATION TO DISCHARGE STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)/STATE DISPOSAL SYSTEM (SDS) CONSTRUCTION STORMWATER PERMIT FOR THE PROJECT SINCE THE DISTURBED AREA IS MORE THAN ONE ACRE. ALL SITE WORK SHALL FOLLOW THE PERMIT GUIDELINES.

THE GOAL OF POLLUTION PREVENTION EFFORTS DURING PROJECT CONSTRUCTION IS TO CONTROL SOIL AND POLLUTANTS ON THE SITE AND PREVENT THEM FROM LEAVING THE PROJECT SITE AND FLOWING TO SURFACE WATERS. THE PURPOSE OF THIS SWPPP IS TO PROVIDE GUIDELINES FOR ACHIEVING THAT GOAL. THE SWPPP MUST BE KEPT ONSITE AND UPDATED AS NECESSARY DURING THE COURSE OF CONSTRUCTION TO KEEP IT CURRENT WITH ANY MODIFICATIONS TO THE POLLUTION CONTROL MEASURES BEING UTILIZED.

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A NEW SHARED DRIVEWAY TO PROVIDE ACCESS TO THE TWO NEWLY CREATED LOTS.

THE PROPOSED STORMWATER MANAGEMENT DESIGN WILL MEET THE REQUIREMENTS OF THE CITY OF SUNFISH LAKE AND THE LOWER MISSISSIPPI RIVER WATERSHED MANAGEMENT ORGANIZATION. THIS PROJECT IS REQUIRED TO MEET THE MPCA PERMANENT STORMWATER MANAGEMENT REQUIREMENTS BECAUSE THE DISTURBED AREA IS GREATER THAN ONE ACRE.

REGULATORY CONTEXT:
DISCHARGE TO SPECIAL OR IMPAIRED WATERS WITHIN ONE MILE OF SITE:
-THIS PROJECT DISCHARGES TO HORNBEAN LAKE - THIS LAKE IS NOT IDENTIFIED AS AN IMPAIRED WATER ON THE MPCA'S 303(D) IMPAIRED WATERS LIST.

PLACEMENT OF FILL IN WATERS OF THE STATE:
-N/A

DRINKING WATER SUPPLY MANAGEMENT AREA:
-N/A (SITE IS JUST OUTSIDE OF THE SOUTH ST. PAUL DWSMA)

THE PROJECT STORMWATER DISCHARGE IS NOT ANTICIPATED TO IMPACT ANY OF THE FOLLOWING:
-OUTSTANDING RESOURCE VALUE WATERS, TROUT WATERS, WETLANDS, CALCAREOUS FENS, PROPERTIES LISTED BY THE NATIONAL REGISTER OF HISTORIC PLACES OR ARCHAEOLOGICAL SITES

THE PROJECT STORMWATER DISCHARGE IS NOT SUBJECT TO ADDITIONAL REGULATION DUE TO ANY OF THE FOLLOWING:
-OTHER FORMAL ENVIRONMENTAL REVIEWS, ENDANGERED OR THREATENED SPECIES

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IMPLEMENTATION RESPONSIBILITIES:
1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON-SITE IMPLEMENTATION OF THE SWPPP, INCLUDING THE ACTIVITIES OF ALL OF THE CONTRACTOR'S SUBCONTRACTORS.
2. CONTRACTOR SHALL PROVIDE A PERSON(S) KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMPS TO OVERSEE ALL INSTALLATION AND MAINTENANCE OF BMPS AND IMPLEMENTATION OF THE SWPPP.
3. FOLLOWING FINAL STABILIZATION, THE OWNER IS EXPECTED TO FURNISH LONG TERM OPERATION AND MAINTENANCE (O & M) OF THE PERMANENT STORM WATER MANAGEMENT SYSTEM.

STORMWATER DISCHARGE DESIGN REQUIREMENTS:
THE FOLLOWING SIZING CRITERIA APPLY TO THE DESIGN OF STORMWATER TREATMENT FACILITIES. N/A INDICATES NOT APPLICABLE OR NOT CONSTRUCTED AS PART OF THIS PROJECT.
1. TEMPORARY SEDIMENTATION BASINS: N/A
2. PERMANENT WET SEDIMENTATION BASINS: N/A
3. PERMANENT INFILTRATION/FILTRATION : SEE GRADING PLAN AND STORMWATER MANAGEMENT PLAN
4. PERMANENT REGIONAL PONDS: N/A
5. ALTERNATIVE METHODS: N/A

SEQUENCE OF CONSTRUCTION:
THE FOLLOWING SEQUENCE DESCRIBES, IN GENERAL, THE WORK ON THE SITE:
1. CONTRACTOR SHALL VERIFY THAT ALL PERMITS HAVE BEEN OBTAINED AND/OR OBTAIN THE NECESSARY PERMITS.
2. CONTRACTOR SHALL PERFORM SITE INSPECTIONS, RECORD KEEPING AND RECORD RETENTION IN ACCORDANCE WITH ALL PERMITS.
3. CONTRACTOR SHALL INSTALL ALL PERIMETER AND DOWN-GRADIENT EROSION CONTROL AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPS), CONSTRUCTION ENTRANCES AND INLET PROTECTION DEVICES PRIOR TO SITE GRADING, EXCAVATION, STOCKPILING OR DISTURBING EXISTING VEGETATIVE COVER.
4. CONTRACTOR SHALL PERFORM SITE GRADING, EXCAVATION, STOCKPILING WORK IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
5. CONTRACTOR SHALL INSTALL, INSPECT, MONITOR AND MAINTAIN TEMPORARY AND PERMANENT EROSION CONTROL BMPS AS SHOWN ON PLANS & IN CONFORMANCE WITH NPDES PERMIT, CONTINUOUSLY DURING THE WORK. CONTRACTOR SHALL STABILIZE ALL EXPOSED SOILS NO LATER THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
6. CONTRACTOR SHALL REPLACE OR REPAIR EROSION CONTROL AND SEDIMENT CONTROL BMPS THAT ARE NOT FUNCTIONING PROPERLY.
7. CONTRACTOR SHALL PERFORM SITE RESTORATION ACTIVITIES FOR PERMANENT VEGETATIVE ESTABLISHMENT.
8. CONTRACTOR SHALL REMOVE SEDIMENT CONTROL DEVICES PRIOR TO FINAL COMPLETION.

1. CONSTRUCTION ACTIVITY FIELD REQUIREMENTS:
ALL FIELD REQUIREMENTS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NPDES PERMIT AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
A. THE CONTRACTOR MUST IMPLEMENT THE SWPPP AND PROVIDE BMPS IDENTIFIED IN THE SWPPP IN AN APPROPRIATE AND FUNCTIONAL MANNER.
B. THE CONTRACTOR SHALL RESPOND TO CHANGING SITE CONDITIONS AND IMPLEMENT/SUPPLEMENT EROSION PREVENTION AND SEDIMENT CONTROL MEASURES UTILIZED TO PROVIDE ADEQUATE PROTECTION OF DISTURBED SOILS AND ADEQUATE PREVENTION OF SEDIMENT TRANSPORT OFF-SITE. AT A MINIMUM, THE FOLLOWING STORM WATER POLLUTION PREVENTION CONSTRUCTION ACTIVITY FIELD REQUIREMENTS SHALL BE FURNISHED BY THE CONTRACTOR.

2. EROSION PREVENTION PRACTICES
CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING EROSION PREVENTION PRACTICES:
A. THE CONTRACTOR SHALL ATTEMPT TO PHASE ALL WORK TO MINIMIZE EROSION AND MAINTAIN VEGETATIVE COVER TO THE EXTENT POSSIBLE. THE LOCATION OF AREAS NOT TO BE DISTURBED MUST BE DELINEATED ON THE SITE BEFORE CONSTRUCTION BEGINS.
B. STABILIZATION ON ALL EXPOSED SOILS MUST BE INITIATED IMMEDIATELY WHENEVER CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 7 CALENDAR DAYS, INCLUDING STOCKPILES WITH SIGNIFICANT SILT, CLAY OR ORGANIC COMPONENTS. STABILIZATION MUST BE COMPLETED WITHIN 7 CALENDAR DAYS.
C. THE NORMAL WETTED PERIMETER OF ANY TEMPORARY OR PERMANENT DRAINAGE DITCH THAT DRAINS WATER FROM A CONSTRUCTION SITE OR DIVERTS WATER AROUND A SITE MUST BE STABILIZED BY CONTRACTOR WITHIN 200 FEET FROM THE PROPERTY EDGE, OR FROM THE POINT OF DISCHARGE TO ANY SURFACE WATER WITHIN 24 HOURS OF CONNECTING TO A SURFACE WATER. TEMPORARY OR PERMANENT DITCH SWALES BEING USED AS A SEDIMENT CONTAINMENT SYSTEM DO NOT NEED TO BE STABILIZED UNTIL THEY ARE NO LONGER USED AS A SEDIMENT CONTAINMENT SYSTEM, AFTER WHICH THEY MUST BE STABILIZED WITHIN 24 HOURS.
D. TEMPORARY OR PERMANENT ENERGY DISSIPATION AT PIPE OUTLETS MUST BE PROVIDED WITHIN 24 HOURS OF CONNECTING TO A SURFACE WATER.
E. THE CONTRACTOR MUST DIRECT DISCHARGES FROM BMPS TO VEGETATED AREAS OF THE SITE IN ORDER TO INCREASE SEDIMENT REMOVAL AND MAXIMIZE INFILTRATION UNLESS INFEASIBLE. THE CONTRACTOR MUST UTILIZE VELOCITY DISSIPATION DEVICES IF NECESSARY TO PREVENT EROSION WHEN DIRECTING STORMWATER TO VEGETATED AREAS.

3. SEDIMENT CONTROL PRACTICES
CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING SEDIMENT CONTROL PRACTICES:
A. CONTRACTOR MUST INSTALL ALL DOWN GRADIENT PERIMETER CONTROLS BEFORE ANY UP GRADIENT DISTURBANCE BEGINS. CONTRACTOR SHALL MAINTAIN PERIMETER CONTROLS UNTIL FINAL STABILIZATION HAS BEEN ESTABLISHED.
B. CONTRACTOR SHALL PROVIDE GRADING AND BMP INSTALLATION TO LIMIT ALL SLOPES OF 3H:1V OR STEEPER TO AN UNBROKEN LENGTH OF 75 FEET OR LESS.
C. IF DOWN GRADIENT SEDIMENT CONTROLS ARE OVERLOADED, THE CONTRACTOR MUST INSTALL ADDITIONAL UPGRADIENT SEDIMENT CONTROL PRACTICES OR REDUNDANT BMPS TO ELIMINATE OVERLOADING. THE SWPPP MUST BE AMENDED TO IDENTIFY THESES ADDITIONAL PRACTICES.
D. TIMING AND INSTALLATION OF SEDIMENT CONTROL DEVICES CAN BE ADJUSTED BY CONTRACTOR TO ACCOMMODATE SHORT-TERM ACTIVITIES SUCH AS CLEARING AND GRUBBING OR VEHICLE PASSAGE. ANY SHORT-TERM ACTIVITY MUST BE COMPLETED AS QUICKLY AS POSSIBLE AND THE SEDIMENT CONTROL PRACTICES MUST BE INSTALLED IMMEDIATELY AFTER THE ACTIVITY IS COMPLETED AND IN ALL CASES PRIOR TO THE NEXT PRECIPITATION EVENT.
E. ALL PUBLIC AND PRIVATE STORM SEWER INLETS AND OUTLETS SHALL BE PROTECTED BY CONTRACTOR WITH APPROPRIATE BMPS DURING THE WORK. THESE PRACTICES SHALL REMAIN IN PLACE UNTIL THE POTENTIAL SOURCES FOR DISCHARGING SEDIMENT TO INLETS HAVE BEEN STABILIZED BY CONTRACTOR.
F. TEMPORARY SOIL STOCKPILES MUST HAVE SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN SURFACE WATERS OR STORMWATER CONVEYANCES. ACCEPTABLE PROTECTION INCLUDES COVER OF MULCH, EROSION CONTROL MATS, OR PLASTIC SHEETING.
G. ROCK CONSTRUCTION ENTRANCES OR EQUIVALENT SYSTEM MUST BE INSTALLED BY CONTRACTOR TO MINIMIZE TRACKING FROM SITE. CONTRACTOR SHALL PROVIDE STREET SWEEPING AS NECESSARY IF BMPS ARE NOT ADEQUATE TO PREVENT SEDIMENT FROM BEING TRACKED ONTO THE STREET.
H. CONTRACTOR SHALL PROVIDE TEMPORARY SEDIMENTATION BASINS AS NEEDED.
I. CONTRACTOR MUST MINIMIZE SOIL COMPACTION AND PRESERVE TOPSOIL, UNLESS INFEASIBLE. MINIMIZING SOIL COMPACTION IS NOT REQUIRED WHERE THE FUNCTION OF A SPECIFIC AREA OF THE SITE DICTATES THAT IT BE COMPACTED.
J. THE CONTRACTOR MUST PRESERVE A 50 FOOT NATURAL BUFFER OR PROVIDE REDUNDANT SEDIMENT CONTROLS WHEN A SURFACE WATER IS LOCATED WITHIN 50 FEET OF THE PROJECT DISTURBANCE LIMITS AND STORMWATER FLOWS TO THE SURFACE WATER.
K. IF POLYMERS, FLOCCULANTS, OR OTHER SEDIMENTATION TREATMENT CHEMICALS ARE USED ON SITE, THE CONTRACTOR MUST COMPLY WITH THE FOLLOWING REQUIREMENTS.
   a. THE CONTRACTOR MUST USE CONVENTIONAL EROSION AND SEDIMENT CONTROLS PRIOR TO CHEMICAL ADDITION TO ENSURE EFFECTIVE TREATMENT. CHEMICALS MAY ONLY BE APPLIED WHERE TREATED STORMWATER IS DIRECTED TO A SEDIMENT CONTROL SYSTEM WHICH ALLOWS FOR THE SETTLEMENT OF THE FLOC PRIOR TO DISCHARGE.
   b. CHEMICALS MUST BE SELECTED THAT ARE APPROPRIATELY SUITED TO THE TYPES OF SOILS LIKELY TO BE EXPOSED DURING CONSTRUCTION. CHEMICALS MUST BE USED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES, AND WITH DOSING SPECIFICATION AND SEDIMENT REMOVAL DESIGN SPECIFICATION PROVIDED BY THE MANUFACTURER.

4. DEWATERING AND BASIN DRAINING
CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING DEWATERING REQUIREMENTS:
A. CONTRACTOR'S DEWATERING ACTIVITIES THAT HAVE SEDIMENT-LADEN DISCHARGE WATER MUST BE DISCHARGED INTO A TEMPORARY OR PERMANENT SEDIMENTATION BASIN WHENEVER POSSIBLE, OTHERWISE IT MUST BE DISCHARGED THROUGH SOME FORM OF BEST MANAGEMENT PRACTICE (BMP) BY CONTRACTOR TO LIMIT SEDIMENT FROM LEAVING THE SITE. PRIOR TO DISCHARGE, THE CONTRACTOR SHALL PERFORM A VISUAL TEST TO ENSURE ADEQUATE TREATMENT IS OBTAINED IN THE BASIN OR BMP AND APPLY ADDITIONAL TREATMENT AS REQUIRED TO ENSURE ADEQUATE TREATMENT.
B. THE CONTRACTOR SHALL DISCHARGE WATER FROM DEWATERING IN A MANNER THAT DOES NOT CAUSE NUISANCE CONDITIONS. THE DISCHARGE WATER SHALL BE DISPERSED OVER AN ACCEPTED ENERGY DISSIPATION MEASURE AND NOT ADVERSELY AFFECT THE RECEIVING WATER OR DOWNSTREAM LANDOWNERS OR WETLANDS.
C. IF CONTRACTOR IS USING FILTERS WITH BACKWASH WATER, THE CONTRACTOR SHALL HAUL THE BACKWASH WATER AWAY FOR DISPOSAL, RETURN THE BACKWASH WATER TO THE BEGINNING OF THE TREATMENT PROCESS, OR INCORPORATE THE BACKWASH WATER INTO THE SITE IN A MANNER THAT DOES NOT CAUSE EROSION.

5. INSPECTIONS AND MAINTENANCE
CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING THE FOLLOWING INSPECTIONS AND MAINTENANCE:
A. WHEN INSPECTIONS FIND EROSION PREVENTION AND SEDIMENT CONTROL BMPS THAT ARE NONFUNCTIONAL, ALL NONFUNCTIONAL BMPS MUST BE REPAIRED, REPLACED, OR SUPPLEMENTED WITH FUNCTIONAL BMPS WITHIN 24 HOURS AFTER DISCOVERY. THE CONTRACTOR SHALL ALSO PLACE ANY ADDITIONAL EROSION CONTROL MEASURES DEEMED NECESSARY WITHIN 24 HOURS OF NOTICE FROM CITY INSPECTORS.
B. THE CONTRACTOR MUST ROUTINELY INSPECT THE SITE ONCE EVERY 7 DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS.
C. ALL INSPECTIONS AND MAINTENANCE CONDUCTED DURING CONSTRUCTION MUST BE RECORDED IN WRITING BY CONTRACTOR AND RETAINED WITH THE SWPPP BY CONTRACTOR. MAINTENANCE MUST BE COMPLETED BY CONTRACTOR. CONTRACTOR'S RECORDS MUST INCLUDE:
   a. DATE AND TIME OF INSPECTION.
   b. NAME OF PERSON CONDUCTING INSPECTION.
   c. FINDING OF INSPECTION INCLUDING RECOMMENDATIONS FOR CORRECTIVE ACTION.
   d. DETAILS OF CORRECTIVE ACTION TAKEN (DATE. TIME. PARTY COMPLETING MAINTENANCE ACTIVITIES).
   e. DATE AND AMOUNT OF RAINFALL GREATER THAN 0.5 INCHES IN 24 HOURS.
   f. IF ANY DISCHARGE IS OBSERVED TO BE OCCURRING DURING THE INSPECTION, A RECORD OF ALL POINTS OF THE PROPERTY FROM WHICH THERE IS A DISCHARGE MUST BE MADE, AND THE DISCHARGE SHALL BE DESCRIBED (COLOR, ODOR, FLOATING, SETTLED, OR SUSPENDED SOLIDS, FOAM, OIL SHEEN, AND OTHER INDICATORS) AND PHOTOGRAPHED.
   g. DOCUMENTATION OF CHANGES MADE TO SWPPP.
D. IN AREAS OF PROJECT WHERE FINAL STABILIZATION IS COMPLETE INSPECTIONS CAN BE REDUCED TO ONCE A MONTH. THESE AREAS SHALL BE INSPECTED BY CONTRACTOR FOR MINIMUM PERIOD OF 12 NON-WINTER MONTHS AND WITHIN 24 HOURS OF FIRST SPRING RUNOFF OR PRIOR TO RESUMING CONSTRUCTION FOLLOWING ANY WINTER STOPPAGE, WHICHEVER COMES FIRST.
E. THE CONTRACTOR IS RESPONSIBLE FOR THE INSPECTION AND MAINTENANCE OF BMPS UNTIL THE PROJECT HAS UNDERGONE FINAL STABLIZATION.
F. ALL EROSION CONTROL MEASURES MUST BE INSTALLED AND MAINTAINED BY CONTRACTOR ACCORDING TO THE DETAILS INCLUDED IN THE CONSTRUCTION DOCUMENTS AND IN ACCORDANCE WITH THE PRODUCT MANUFACTURER'S RECOMMENDATIONS.
G. ALL PERIMETER CONTROL DEVICES MUST BE REPAIRED, REPLACED OR SUPPLEMENTED BY THE CONTRACTOR WHEN THEY BECOME NON-FUNCTIONAL OR THE SEDIMENT REACHES ONE-HALF THE HEIGHT OF THE DEVICE. CONTRACTOR SHALL REPAIR OR REPLACE DEVICE THAT IS NONFUNCTIONAL BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY, OR THEREAFTER AS SOON AS FIELD CONDITIONS ALLOW.
H. TEMPORARY AND PERMANENT SEDIMENTATION BASINS MUST BE DRAINED AND SEDIMENT REMOVED BY CONTRACTOR ONCE THE SEDIMENT COLLECTED REACHES ONE HALF THE STORAGE VOLUME WITH 72 HOURS OF DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW.
I. ALL SEDIMENT DEPOSITS WITHIN SURFACE WATERS OR STORMWATER CONVEYANCES MUST BE REMOVED AND RESTABILIZED BY CONTRACTOR WITHIN 7 DAYS OF DISCOVERY OR SOONER IF IT PRESENTS A FLOOD RISK, INCLUDING DELTAS AND STORM SEWER SEDIMENT DEPOSITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED, IF NECESSARY, FOR SUCH SEDIMENT REMOVAL.
J. CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING EXISTING PAVED SURFACES CLEAN OF SEDIMENT. CONSTRUCTION ENTRANCES SHALL BE CHECKED DAILY BY CONTRACTOR. IF THE ENTRANCE BECOMES INUNDATED WITH SEDIMENT, THE ENTRANCE WILL BE CLEANED OR REPLACED AS APPROPRIATE BY CONTRACTOR. STREETS LEADING TO AND FROM THE CONSTRUCTION ENTRANCE SHALL BE CHECKED DAILY BY CONTRACTOR FOR OFF-SITE SEDIMENT TRACKING ONTO PAVED SURFACES. THESE AREAS WILL BE SWEPT CLEAN OF ANY TRACKED MATERIALS BY CONTRACTOR AS SOON AS POSSIBLE AND WITHIN 24 HOURS OF DISCOVERY AND AS DIRECTED BY THE CITY. CONTRACTOR SHALL EXTEND SWEEPING TO THE EXTREMITY OF ANY SEDIMENT TRACKING THAT OCCURS OFF-SITE.
K. CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ANY OFF-SITE SEDIMENT ACCUMULATIONS IN A MANNER AND AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS.
L. ALL INFILTRATION/FILTRATION AREAS MUST BE INSPECTED BY CONTRACTOR TO ENSURE THAT NO SEDIMENT FROM ONGOING CONSTRUCTION IS ACCUMULATING OVER THE INFILTRATION/FILTRATION AREA. SEDIMENT ACCUMULATED OVER INFILTRATION /FILTRATION MUST BE REMOVED BY CONTRACTOR.
M. CONTRACTOR SHALL PROTECT INFILTRATION/FILTRATION AREAS FROM SEDIMENTATION AND OVER-COMPACTION. DURING EXCAVATION, SEDIMENT AND EROSION CONTROL DEVICES MUST BE UTILIZED BY CONTRACTOR TO PREVENT SEDIMENTATION AND THE AREA MUST BE STAKED OFF AND MARKED SO THAT HEAVY CONSTRUCTION EQUIPMENT WILL NOT COMPACT THE SOIL.
N. INSPECTIONS CAN BE SUSPENDED DUE TO FROZEN GROUND CONDITIONS UNTIL FIRST RUNOFF OCCURS OR CONSTRUCTION ACTIVITIES RESUME.

6. POLLUTION PREVENTION MEASURES
CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THE FOLLOWING POLLUTION PREVENTION MANAGEMENT MEASURES ON THE SITE:
A. THE CONTRACTOR SHALL MINIMIZE THE EXPOSURE OF ALL PRODUCTS, MATERIALS, AND WASTES FROM STORMWATER WHICH MAY BE A SOURCE OF CONTAMINATION TO STORMWATER OR ARE NOT DESIGNED TO BE EXPOSED TO STORMWATER.
B. BUILDING PRODUCTS THAT MAY LEACH POLLUTANTS MUST BE UNDER COVER (PLASTIC SHEETING, TEMPORARY ROOFS, ETC.) TO PREVENT THE DISCHARGE OF POLLUTANTS OR PROTECTED BY A SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WITH STORMWATER.
C. PESTICIDES, HERBICIDES, INSECTICIDES, FERTILIZERS, TREATMENT CHEMICALS, AND LANDSCAPE MATERIALS MUST BE UNDER COVER (PLASTIC SHEETING, TEMPORARY ROOFS, ETC.) TO PREVENT THE DISCHARGE OF POLLUTANTS OR PROTECTED BY A SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WITH STORMWATER.
D. HAZARDOUS MATERIALS, TOXIC WASTE, (INCLUDING OIL, DIESEL FUEL, GASOLINE, HYDRAULIC FLUIDS, PAINT SOLVENTS, PETROLEUM-BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURING COMPOUNDS, AND ACIDS) MUST BE STORED IN SEALED CONTAINERS TO PREVENT SPILLS, LEAKS OR OTHER DISCHARGE. RESTRICTED ACCESS STORAGE AREAS MUST BE PROVIDED TO PREVENT VANDALISM. STORAGE AND DISPOSAL OF HAZARDOUS MATERIALS MUST COMPLY WITH ALL STATE REQUIREMENTS.
E. SOLID WASTE MUST BE STORED, COLLECTED, AND DISPOSED IN COMPLIANCE WITH ALL STATE REQUIREMENTS.
F. PORTABLE TOILETS MUST BE POSITIONED SO THAT THEY ARE SECURE AND WILL NOT BE TIPPED OVER. SANITARY WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH ALL STATE REQUIREMENTS.
G. THE CONTRACTOR SHALL TAKE REASONABLE STEPS TO PREVENT THE DISCHARGE OF SPILLED OR LEAKED CHEMICALS, INCLUDING FUEL, FROM ALL AREAS WHERE CHEMICALS OR FUEL WILL BE LOADED OR UNLOADED. THE CONTRACTOR MUST CONDUCT FUELING IN A CONTAINED AREA UNLESS INFEASIBLE. THE CONTRACTOR MUST ENSURE ADEQUATE SUPPLIES ARE AVAILABLE AT ALL TIMES TO CLEAN UP DISCHARGED MATERIALS AND THAT AN APPROPRIATE DISPOSAL METHOD IS AVAILABLE FOR RECOVERED SPILLED MATERIALS. ALL SPILLS MUST BE CLEANED UP AND REPORTED IN ACCORDANCE WITH STATE REQUIREMENTS. DRY CLEAN UP MEASURES SHALL BE USED WHERE POSSIBLE.
H. THE CONTRACTOR MUST LIMIT VEHICLE AND EQUIPMENT WASHING TO A DEFINED AREA WHEN COMPLETED ON THE PROJECT SITE. RUNOFF FROM THE WASHING AREA MUST BE CONTAINED IN A SEDIMENT BASIN OR OTHER SIMILARLY EFFECTIVE CONTROLS AND WASTE FROM THE WASHING ACTIVITY MUST BE PROPERLY DISPOSED OF. THE CONTRACTOR MUST PROPERLY USE AND STORE SOAPS, DETERGENTS, OR SOLVENTS. NO ENGINE DEGREASING IS ALLOWED ONSITE.
I. THE CONTRACTOR MUST PROVIDE EFFECTIVE CONTAINMENT FOR ALL LIQUID AND SOLID WASTES GENERATED BY WASHOUT OPERATIONS (CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS, AND OTHER CONSTRUCTION MATERIALS) RELATED TO THE PROJECT CONSTRUCTION ACTIVITY. NO WASHOUT WASTES MAY CONTACT THE GROUND, AND THE CONTAINMENT MUST BE DESIGNED SO THAT IT DOES NOT RESULT IN RUNOFF FROM THE WASHOUT OPERATIONS OR ARE LIQUID AND SOLID WASTES MUST BE DISPOSED OF PROPERLY AND IN COMPLIANCE WITH ALL MPCA RULES. A SIGN MUST BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY THAT REQUIRES SITE PERSONNEL TO UTILIZE PROPER FACILITIES FOR DISPOSAL OF CONCRETE AND OTHER WASHOUT WASTES.

7. FINAL STABILIZATION
THE CONTRACTOR SHALL ENSURE FINAL STABILIZATION OF THE SITE. FINAL STABILIZATION REQUIRES THE FOLLOWING:
A. ALL SOIL DISTURBING ACTIVITIES ARE COMPLETE AND A UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70% OVER THE ENTIRE PERVIOUS SURFACE HAS BEEN ACHIEVED, INCLUDING STABILIZATION OF ALL DITCHES AND SWALES.
B. CONTRACTOR SHALL ENSURE THAT ALL PERMANENT STORMWATER TREATMENT SYSTEMS ARE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF CONSTRUCTION DOCUMENTS.
C. CONTRACTOR SHALL REMOVE ALL TEMPORARY SYNTHETIC AND STRUCTURAL BMPS.

RECORD AVAILABILITY AND RETENTION:
-THE CONTRACTOR SHALL MAKE THE SWPPP, INCLUDING ALL CERTIFICATES, REPORTS, RECORDS, OR OTHER INFORMATION, AVAILABLE TO FEDERAL, STATE, OR LOCAL OFFICIALS WITHIN 72 HOURS UPON REQUEST FOR THE DURATION OF THE PROJECT AND FOR THREE YEARS FOLLOWING FINAL STABILIZATION.

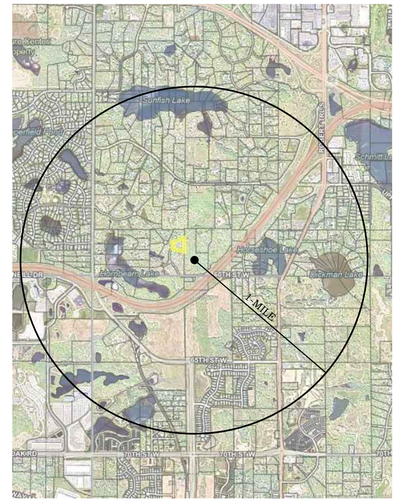
INSPECTION AND ENTRY:
-THE CONTRACTOR MUST ALLOW ACCESS FOR REPRESENTATIVES OF THE CITY OR ANY MEMBER THEREOF WHEN AUTHORIZED BY IT, TO ENTER UPON THE PROJECT SITE FOR THE PURPOSE OF OBTAINING INFORMATION, EXAMINATION OF RECORDS, OR CONDUCTING SURVEYS OR INVESTIGATIONS.

8. CHANGES TO SWPPP
-THE CONTRCTOR MUST AMEND THE SWPPP AS NECESSARY TO INCLUDE ADDITIONAL REQUIREMENTS, SUCH AS ADDITIONAL OR MODIFIED BMPS, DESIGNED TO CORRECT PROBLEMS IDENTIFIED OR ADDRESS SITUATIONS WHENEVER:
1. THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION OR MAINTENANCE, WEATHER OR SEASONAL CONDITIONS THAT HAVE SIGNIFICANT EFFECT ON DISCHARGE. INSPECTION IS REQUIRED WITHIN 24 HOURS OF A RAINFALL EVENT GREATER THAN ONE-HALF INCH.
2. INSPECTION OR INVESTIGATION BY SITE OPERATORS, LOCAL, STATE OR FEDERAL OFFICIALS INDICATE THE SWPPP IS NOT EFFECTIVE.
3. THE SWPPP IS NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS.

9. SWPPP CERTIFICATION:
- THIS STORMWATER POLLUTION PREVENTION PLAN WAS PREPARED BY INDIVIDUAL(S) TRAINED IN ACCORDANCE WITH TRAINING REQUIREMENTS FOR PREPARATION OF SWPPPS. INDIVIDUAL(S) PREPARING THIS SWPPP:

PREPARED BY:
KEVIN GARDNER, P.E.
PIERCE PINI AND ASSOCIATES
KEVIN@PIERCEPINI.COM
763-537-1311

TRAINING/CERTIFICATION:
DATE OF TRAINING/CERTIFICATION
- 2026
CERTIFICATION PROGRAM
- UNIVERSITY OF MINNESOTA
- DESIGN OF CONSTRUCTION SWPPP
- ARDEN HILLS, MN
INSTRUCTOR(S)
- JOHN CHAPMAN
CERTIFICATION EXPIRATION
- 2029



IMPARIED WATERS MAP

PIERCE PINI & ASSOCIATES, INC.
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HAGEN LOT SPLIT SHARED DRIVEWAY

60TH STREET
SUNFISH LAKE, MINNESOTA 55077

I hereby certify that this plan or drawing was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.
Company: PIERCE PINI & ASSOCIATES
Signed: Kevin Gardner
Name: Kevin Gardner
Date: 04/28/2026 Reg. No: 45815

Issued for	Date
City Site Plan Approval	05/07/2026

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Comm. No.	26-005
Drawn	JR
Checked	KG
Date	04/28/2026

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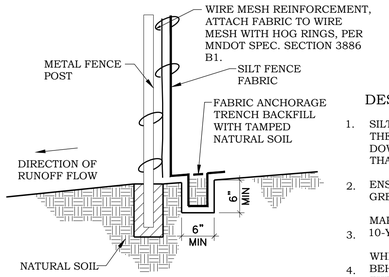
Drawing Title
STORMWATER POLLUTION PREVENTION NOTES

C200



NOTE: SILT FENCE SHALL FOLLOW MNDOT SPEC. SECTION 3886.

DESIGN RECOMMENDATIONS

1. SILT FENCES SHOULD BE INSTALLED ON THE CONTOUR (AS OPPOSED TO UP AND DOWN A HILL) AND CONSTRUCTED SO THAT FLOW CANNOT BYPASS THE ENDS.
2. ENSURE THAT THE DRAINAGE AREA IS NO GREATER THAN 1/4 ACRE PER 100 FT OF FENCE.
3. MAKE THE FENCE STABLE FOR THE 10-YEAR PEAK STORM RUNOFF.
4. WHERE ALL RUNOFF IS TO BE STORED BEHIND THE SILT FENCE, ENSURE THAT THE MAXIMUM SLOPE LENGTH BEHIND THE FENCE DOES NOT EXCEED THE SPECIFICATIONS SHOWN IN TABLE 1.

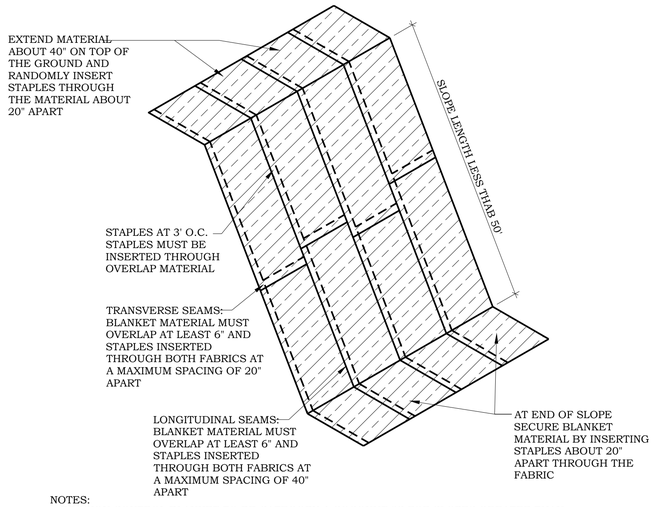
FIGURE 1 TYPICAL INSTALLATION FOR SILT FENCE

TABLE 1 MAXIMUM SLOPE LENGTH AND SLOPE FOR WHICH SILT FENCE IS APPLICABLE

		BY CALCULATION	BY CALCULATION	BY ACCEPTED DESIGN PRACTICES
SLOPE H:V	PERCENT	SILT FENCE STORAGE EQUALES 2 FT FOR A 100-YEAR EVENT	SILT FENCE STORAGE EQUALS 2 FT FOR A 2-YEAR EVENT OR 3 FT FOR A 100-YEAR EVENT	MAXIMUM SLOPE LENGTH
100:1	1%	400 FT	900 FT	100 FT
50:1	2%	200 FT	450 FT	75 FT
25:1	4%	100 FT	225 FT	75 FT
20:1	5%	80 FT	180 FT	75-50 FT
17:1	6%	67 FT	150 FT	50 FT
12.5:1	8%	50 FT	112 FT	50 FT
10:1	10%	40 FT	90 FT	50-25 FT
5:1	20%	20 FT	45 FT	25-15 FT
4:1	25%	16 FT	36 FT	15 FT
3:1	33%	12 FT	27 FT	15 FT
2:1	50%	8 FT	18 FT	15 FT

1 C300 HEAVY DUTY SILT FENCE

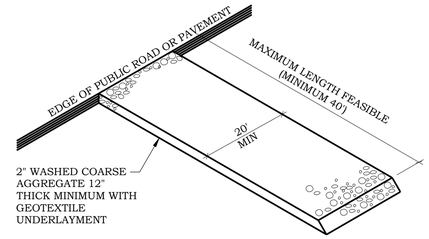
NO SCALE



NOTES:
1. EROSION CONTROL BLANKET TO BE CATEGORY 4-COCONUT 2S FOR SLOPES GREATER THAN 5:1 AND SIDES AND BOTTOM OF ALL DRAINAGE SWALES AND PONDING AREAS AND CATEGORY 2-STRAW 2S FOR ALL SLOPES LESS THAN 5:1 PER MNDOT SPEC. SECTION 3885.
2. INSTALL PER MNDOT SPEC. SECTION 2575

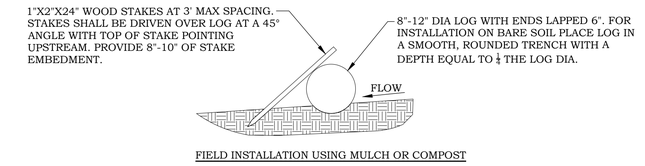
2 C300 EROSION CONTROL BLANKET

NO SCALE

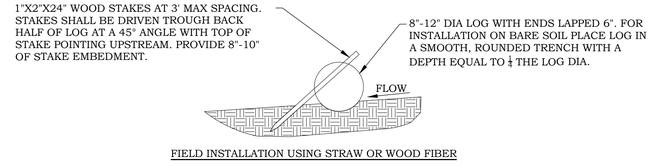


3 C300 GRAVEL CONSTRUCTION ENTRANCE

NO SCALE



FIELD INSTALLATION USING MULCH OR COMPOST



FIELD INSTALLATION USING STRAW OR WOOD FIBER

4 C300 EROSION FILTER LOG

NO SCALE

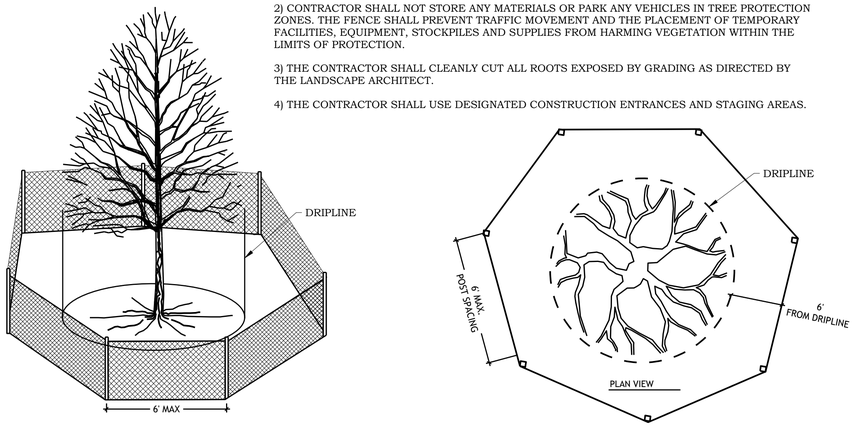
NOTES:

1) ALL TREE PROTECTION FENCING AND EROSION CONTROL FENCING SHALL BE INSTALLED ACCORDING TO THE PLANS PRIOR TO ANY DEMOLITION. AFTER DEMOLITION OR AS NECESSARY, TREE PROTECTION FENCING MAY BE RELOCATED WITH APPROVAL FROM THE LANDSCAPE ARCHITECT. ALL TREE PROTECTION FENCING AND EROSION CONTROL DEVICES SHALL BE MAINTAINED FOR THE DURATION OF THE CONSTRUCTION PERIOD.

2) CONTRACTOR SHALL NOT STORE ANY MATERIALS OR PARK ANY VEHICLES IN TREE PROTECTION ZONES. THE FENCE SHALL PREVENT TRAFFIC MOVEMENT AND THE PLACEMENT OF TEMPORARY FACILITIES, EQUIPMENT, STOCKPILES AND SUPPLIES FROM HARMING VEGETATION WITHIN THE LIMITS OF PROTECTION.

3) THE CONTRACTOR SHALL CLEANLY CUT ALL ROOTS EXPOSED BY GRADING AS DIRECTED BY THE LANDSCAPE ARCHITECT.

4) THE CONTRACTOR SHALL USE DESIGNATED CONSTRUCTION ENTRANCES AND STAGING AREAS.



5 C300 TREE PROTECTION FENCING

NO SCALE

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HAGEN LOT SPLIT SHARED DRIVEWAY

60TH STREET
SUNFISH LAKE, MINNESOTA 55077

I hereby certify that this plan or drawing was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.

Company: PIERCE PINI & ASSOCIATES

Signed: Kevin Gardner

Name: Kevin Gardner

Date: 04/28/2026 Reg. No: 45815

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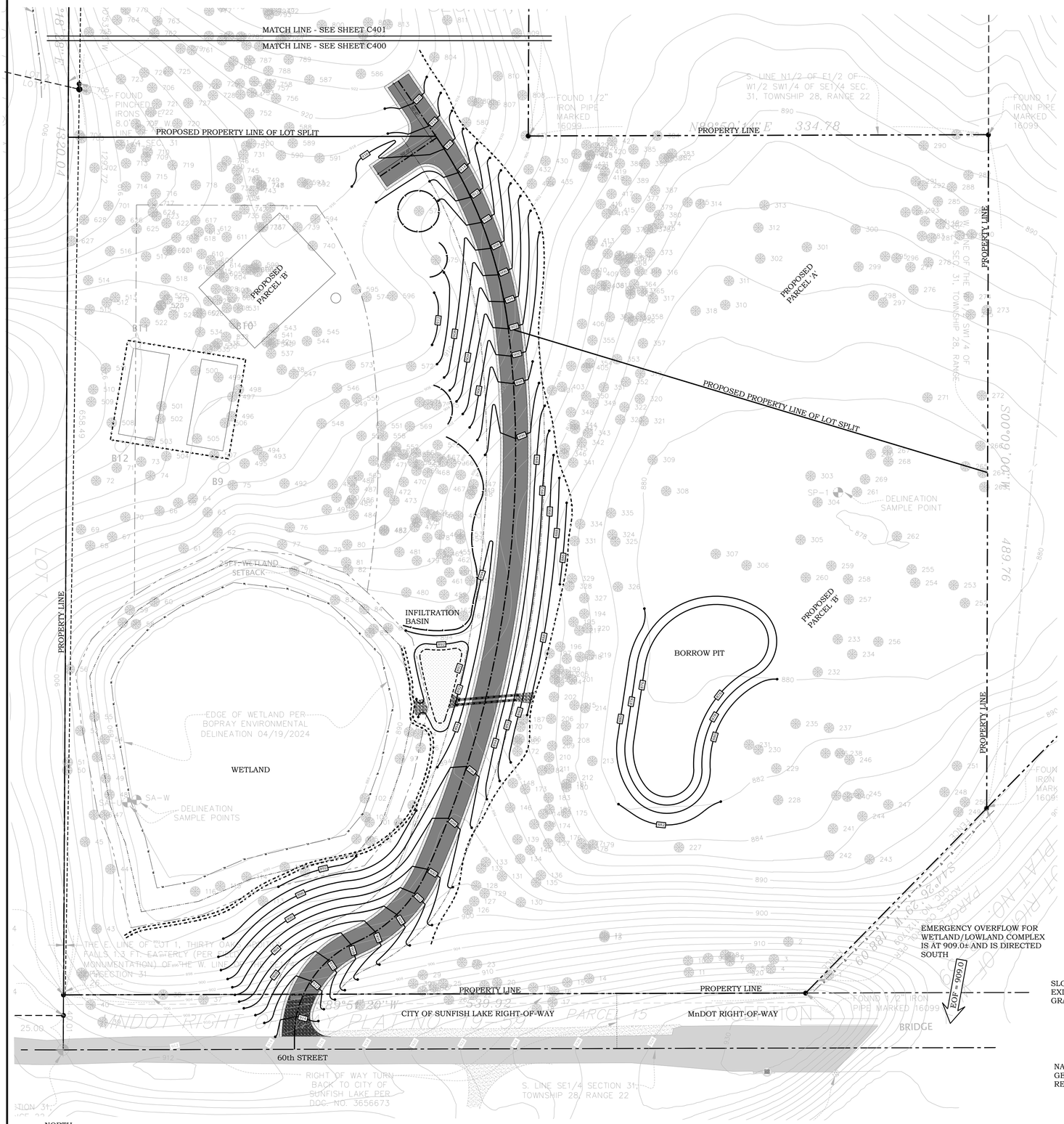
Permit Set

Drawing Title

STORMWATER POLLUTION PREVENTION DETAILS

C300



NORTH

1 C400 GRADING, DRAINAGE AND EROSION CONTROL PLAN

0 40' 80' 120'

1" = 40' (22" x 34")
1" = 80' (11" x 17")

LEGEND

- EXISTING PROPERTY LINE
- WL EXISTING DELINEATED WETLAND
- EXISTING WETLAND BUFFER (15')
- EXISTING WETLAND SETBACK (25')
- PROPOSED STORM SEWER / DRAIN TILE
- PROPOSED HEAVY DUTY SILT FENCE
- PROPOSED TREE FENCING
- PROPOSED CONSTRUCTION ENTRANCE

EROSION CONTROL NOTES

1. BEFORE BEGINNING CONSTRUCTION, INSTALL A TEMPORARY ROCK CONSTRUCTION ENTRANCE AT EACH POINT WHERE VEHICLES EXIT THE CONSTRUCTION SITE. USE 2 INCH OR GREATER DIAMETER ROCK IN A LAYER AT LEAST 12 INCHES THICK ACROSS THE ENTIRE WIDTH OF THE ENTRANCE. EXTEND THE ROCK ENTRANCE AT LEAST 50 FEET INTO THE CONSTRUCTION ZONE USING A GEOTEXTILE FABRIC BENEATH THE AGGREGATE TO PREVENT MIGRATION OF SOIL INTO THE ROCK FROM BELOW.
2. REMOVE ALL SOILS AND SEDIMENTS TRACKED OR OTHERWISE DEPOSITED ONTO PUBLIC AND PRIVATE PAVEMENT AREAS. REMOVAL SHALL BE ON A DAILY BASIS WHEN TRACKING OCCURS AND MAY BE ORDERED BY CITY INSPECTORS AT ANY TIME IF CONDITIONS WARRANT. SWEEPING SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE CONSTRUCTION AND DONE IN A MANNER TO PREVENT DUST BEING BLOWN TO ADJACENT PROPERTIES.
3. CATCH BASIN INSERTS OR OTHER APPROVED PRODUCTS ARE REQUIRED IN UNDISTURBED AREAS THAT MAY RECEIVE RUNOFF FROM THE PROJECT AREA. HAY BALES OR FILTER FABRIC WRAPPED GRATES ARE NOT ALLOWED FOR INLET PROTECTION.
4. LOCATE SOIL OR DIRT STOCKPILES NO LESS THAN 25 FEET FROM ANY PUBLIC OR PRIVATE ROADWAY OR DRAINAGE CHANNEL. TEMPORARY STOCKPILES LOCATED ON PAVED SURFACES MUST BE NO LESS THAN TWO FEET FROM THE DRAINAGE/GUTTER LINE AND SHALL BE COVERED IF LEFT MORE THAN 24 HOURS.
5. MAINTAIN ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES IN PLACE UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED. INSPECT TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES ON A DAILY BASIS AND REPLACE DETERIORATED, DAMAGED, OR ROTTED EROSION CONTROL DEVICES IMMEDIATELY.
6. DISTURBED SOIL STABILIZATION SHALL USE SEED AND MULCH, EROSION CONTROL MATTING, AND/OR SODDING AND STAKING IN GREEN SPACE AREAS. SEED WITH ANNUAL RYE SEED AT 60 LBS PER ACRE AND WOOD MULCH FIBER AT 45 LBS PER 1,000 SF. AN EARLY APPLICATION OF GRAVEL BASE ON AREAS TO BE PAVED IS RECOMMENDED TO MINIMIZE EROSION POTENTIAL.
7. READY MIXED CONCRETE AND CONCRETE BATCH PLANTS ARE PROHIBITED WITHIN THE PUBLIC RIGHT OF WAY. ALL CONCRETE RELATED PRODUCTION, CLEANING AND MIXING ACTIVITIES SHALL BE DONE IN THE DESIGNATED CONCRETE MIXING/WASHOUT LOCATIONS.
8. CHANGES TO EROSION CONTROL PLAN MUST BE APPROVED BY THE EROSION CONTROL INSPECTOR PRIOR TO IMPLEMENTATION. CONTRACTOR TO PROVIDE INSTALLATION AND DETAILS FOR ALL PROPOSED ALTERNATE TYPE DEVICES.
9. ALL EROSION CONTROL ELEMENTS ARE TEMPORARY. CONTRACTOR TO INSTALL EROSION CONTROL ELEMENTS PRIOR TO START OF LAND DISTURBING ACTIVITIES, MAINTAIN IN GOOD CONDITION DURING CONSTRUCTION AND REMOVE FROM THE SITE UPON COMPLETION OF FINAL PAVING AND TURF ESTABLISHMENT.

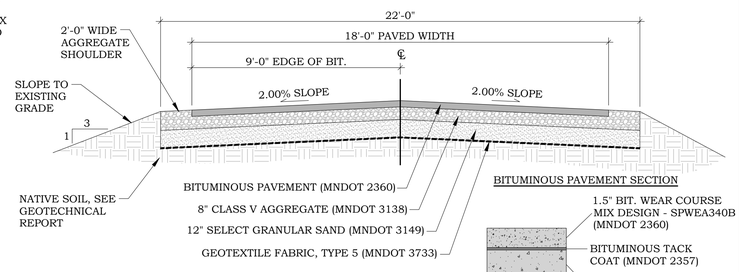
FILTRATION BASIN TESTING AND OPERATION

1. COMMENCE GRADING AND CONSTRUCTION OF FILTRATION BASIN AS NOTED ON THE GRADING PLAN AND DETAILS.
2. AFTER CONSTRUCTION OF FILTRATION BASIN IS COMPLETED, PERFORM (2) DOUBLE-RING INFILTROMETER TESTS TO VERIFY MEDIA HAS BEEN PROPERLY PLACED AND THAT THE AS-CONSTRUCTED FILTRATION RATE IS AT LEAST 0.45 INCHES PER HOUR.

ACREAGE SUMMARY	
TOTAL LOT AREA	642,125 SQ. FT. (14.74 ACRES)
EXISTING IMPERVIOUS AREA	0 SQ. FT. (0.00 ACRES)
PROPOSED IMPERVIOUS AREA	17,914 SQ. FT. (0.41 ACRES)
DISTURBED AREA	72,350 SQ. FT. (1.66 ACRES)

ESTIMATED BMP QUANTITIES	
SILT FENCE	1,500 LF
ROCK CONSTRUCTION ENTRANCE	1 EACH
TREE PROTECTION FENCING	1,000 LF
EROSION CONTROL BLANKET	5,200 SY
RIPRAP	10 CY

NOTE: QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL DETERMINE FOR THEMSELVES THE EXACT QUANTITIES FOR BIDDING AND CONSTRUCTION. CONTRACTOR SHALL NOT RELY ON THESE QUANTITIES FOR THEIR BID AND CIVIL ENGINEER IS NOT RESPONSIBLE FOR COST ESTIMATES OR ACTUAL CONSTRUCTION COSTS.



2 C400 DRIVEWAY SECTION

NO SCALE

PIERCE PINI & ASSOCIATES, INC.
Consulting Civil Engineers

9298 CENTRAL AVENUE NE
SUITE 312
BLAINE, MN 55434
TEL 763-537-1311

HAGEN LOT SPLIT SHARED DRIVEWAY

60TH STREET
SUNFISH LAKE, MINNESOTA 55077

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Company: PIERCE PINI & ASSOCIATES

Signed: Kevin Gardner

Name: Kevin Gardner

Date: 04/28/2026 Reg. No: 45815

Issued for	Date
City Site Plan Approval	05/07/2026

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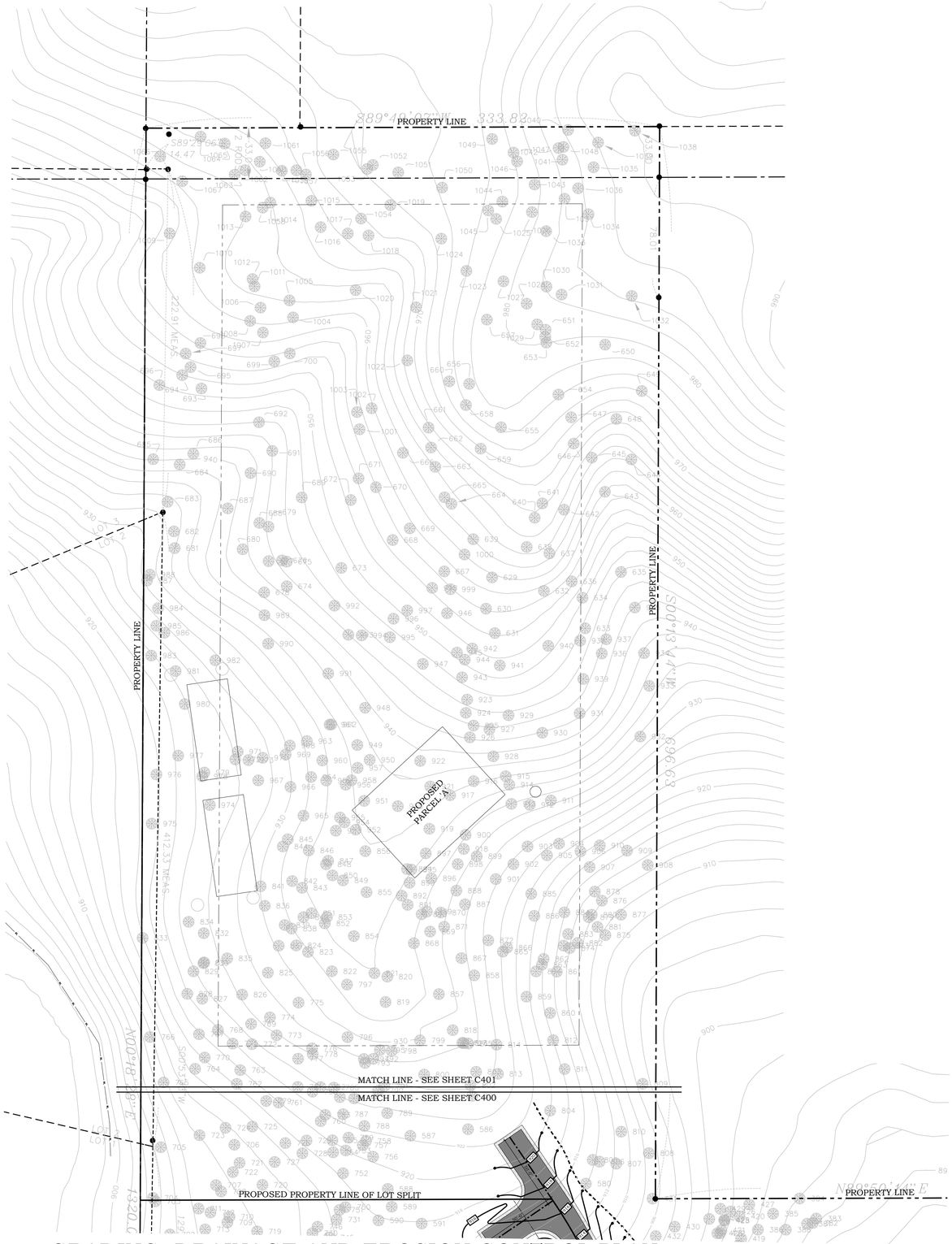
Comm. No.	26-005
Drawn	JR
Checked	KG
Date	04/28/2026

Permit Set

Drawing Title

GRADING, DRAINAGE AND EROSION CONTROL PLAN

C400



1 C401 GRADING, DRAINAGE AND EROSION CONTROL PLAN

1" = 40' (22" x 34")
1" = 80' (11" x 17")

LEGEND

- EXISTING PROPERTY LINE
- EXISTING DELINEATED WETLAND
- EXISTING WETLAND BUFFER (15')
- EXISTING WETLAND SETBACK (25')
- PROPOSED STORM SEWER / DRAIN TILE
- PROPOSED HEAVY DUTY SILT FENCE
- PROPOSED TREE FENCING
- PROPOSED CONSTRUCTION ENTRANCE

EROSION CONTROL NOTES

1. BEFORE BEGINNING CONSTRUCTION, INSTALL A TEMPORARY ROCK CONSTRUCTION ENTRANCE AT EACH POINT WHERE VEHICLES EXIT THE CONSTRUCTION SITE. USE 2 INCH OR GREATER DIAMETER ROCK IN A LAYER AT LEAST 12 INCHES THICK ACROSS THE ENTIRE WIDTH OF THE ENTRANCE. EXTEND THE ROCK ENTRANCE AT LEAST 50 FEET INTO THE CONSTRUCTION ZONE USING A GEOTEXTILE FABRIC BENEATH THE AGGREGATE TO PREVENT MIGRATION OF SOIL INTO THE ROCK FROM BELOW.
2. REMOVE ALL SOILS AND SEDIMENTS TRACKED OR OTHERWISE DEPOSITED ONTO PUBLIC AND PRIVATE PAVEMENT AREAS. REMOVAL SHALL BE ON A DAILY BASIS WHEN TRACKING OCCURS AND MAY BE ORDERED BY CITY INSPECTORS AT ANY TIME IF CONDITIONS WARRANT. SWEEPING SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE CONSTRUCTION AND DONE IN A MANNER TO PREVENT DUST BEING BLOWN TO ADJACENT PROPERTIES.
3. CATCH BASIN INSERTS OR OTHER APPROVED PRODUCTS ARE REQUIRED IN UNDISTURBED AREAS THAT MAY RECEIVE RUNOFF FROM THE PROJECT AREA. HAY BALES OR FILTER FABRIC WRAPPED GRATES ARE NOT ALLOWED FOR INLET PROTECTION.
4. LOCATE SOIL OR DIRT STOCKPILES NO LESS THAN 25 FEET FROM ANY PUBLIC OR PRIVATE ROADWAY OR DRAINAGE CHANNEL. TEMPORARY STOCKPILES LOCATED ON PAVED SURFACES MUST BE NO LESS THAN TWO FEET FROM THE DRAINAGE/GUTTER LINE AND SHALL BE COVERED IF LEFT MORE THAN 24 HOURS.
5. MAINTAIN ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES IN PLACE UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED. INSPECT TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES ON A DAILY BASIS AND REPLACE DETERIORATED, DAMAGED, OR ROTTED EROSION CONTROL DEVICES IMMEDIATELY.
6. DISTURBED SOIL STABILIZATION SHALL USE SEED AND MULCH, EROSION CONTROL MATTING, AND/OR SODDING AND STAKING IN GREEN SPACE AREAS. SEED WITH ANNUAL RYE SEED AT 60 LBS PER ACRE AND WOOD MULCH FIBER AT 45 LBS PER 1,000 SF. AN EARLY APPLICATION OF GRAVEL BASE ON AREAS TO BE PAVED IS RECOMMENDED TO MINIMIZE EROSION POTENTIAL.
7. READY MIXED CONCRETE AND CONCRETE BATCH PLANTS ARE PROHIBITED WITHIN THE PUBLIC RIGHT OF WAY. ALL CONCRETE RELATED PRODUCTION, CLEANING AND MIXING ACTIVITIES SHALL BE DONE IN THE DESIGNATED CONCRETE MIXING/WASHOUT LOCATIONS.
8. CHANGES TO EROSION CONTROL PLAN MUST BE APPROVED BY THE EROSION CONTROL INSPECTOR PRIOR TO IMPLEMENTATION. CONTRACTOR TO PROVIDE INSTALLATION AND DETAILS FOR ALL PROPOSED ALTERNATE TYPE DEVICES.
9. ALL EROSION CONTROL ELEMENTS ARE TEMPORARY. CONTRACTOR TO INSTALL EROSION CONTROL ELEMENTS PRIOR TO START OF LAND DISTURBING ACTIVITIES, MAINTAIN IN GOOD CONDITION DURING CONSTRUCTION AND REMOVE FROM THE SITE UPON COMPLETION OF FINAL PAVING AND TURF ESTABLISHMENT.

FILTRATION BASIN TESTING AND OPERATION

1. COMMENCE GRADING AND CONSTRUCTION OF FILTRATION BASIN AS NOTED ON THE GRADING PLAN AND DETAILS.
2. AFTER CONSTRUCTION OF FILTRATION BASIN IS COMPLETED, PERFORM (2) DOUBLE-RING INFILTROMETER TESTS TO VERIFY MEDIA HAS BEEN PROPERLY PLACED AND THAT THE AS-CONSTRUCTED FILTRATION RATE IS AT LEAST 0.45 INCHES PER HOUR.

ACREAGE SUMMARY	
TOTAL LOT AREA	642,125 SQ. FT. (14.74 ACRES)
EXISTING IMPERVIOUS AREA	0 SQ. FT. (0.00 ACRES)
PROPOSED IMPERVIOUS AREA	17,914 SQ. FT. (0.41 ACRES)
DISTURBED AREA	72,350 SQ. FT. (1.66 ACRES)

ESTIMATED BMP QUANTITIES	
SILT FENCE	1,500 LF
ROCK CONSTRUCTION ENTRANCE	1 EACH
TREE PROTECTION FENCING	1,000 LF
EROSION CONTROL BLANKET	5,200 SY
RIPRAP	10 CY

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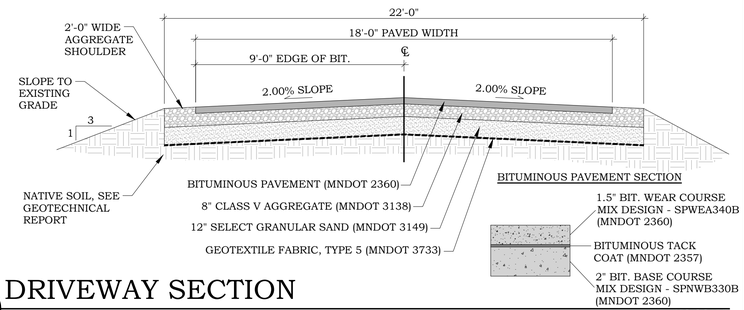

2 C400 DRIVEWAY SECTION

NO SCALE

PIERCE PINI & ASSOCIATES, INC.
Consulting Civil Engineers

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HAGEN LOT SPLIT SHARED DRIVEWAY

60TH STREET
SUNFISH LAKE, MINNESOTA 55077

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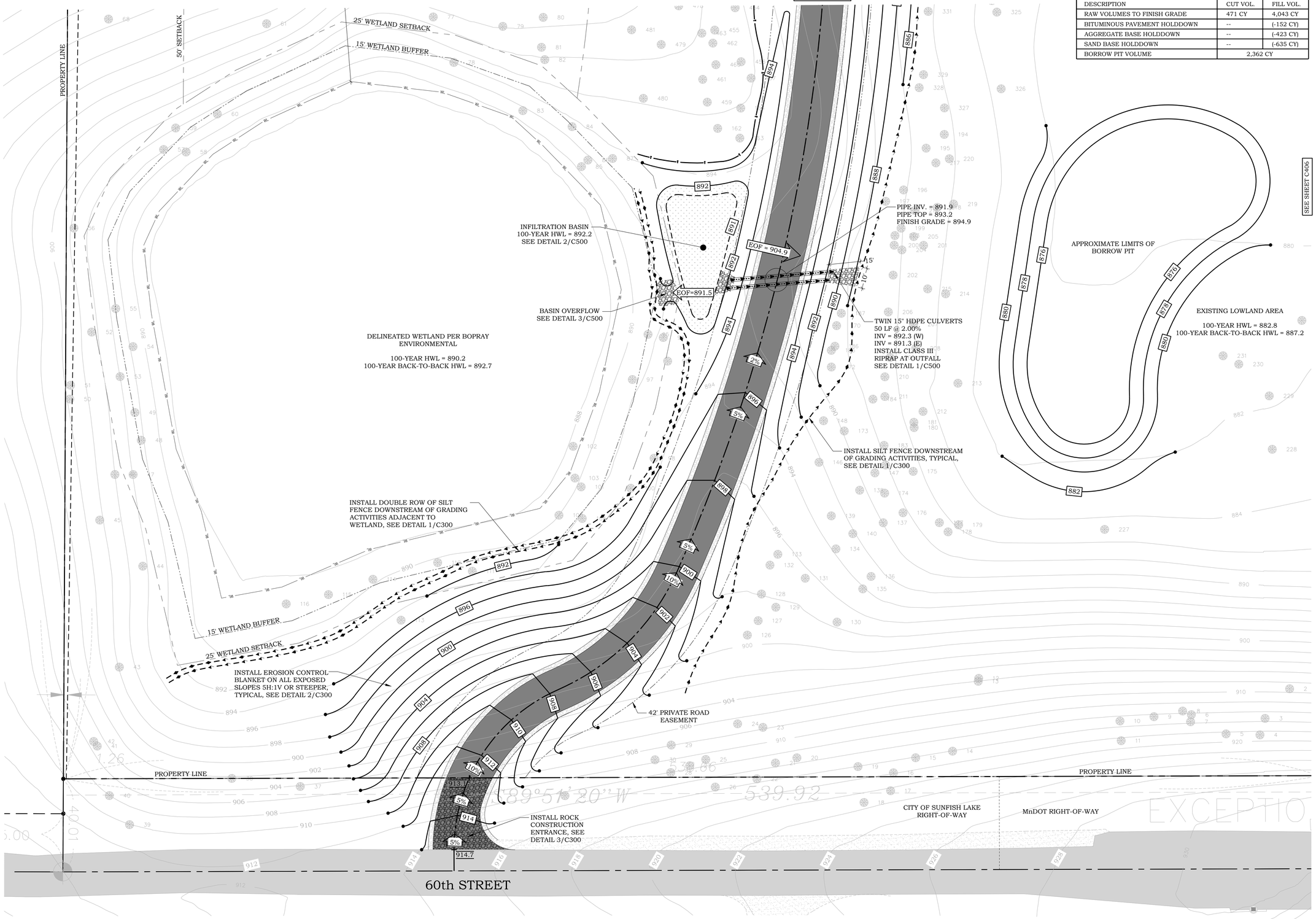
GRADING, DRAINAGE AND EROSION CONTROL PLAN

C401

EARTHWORK ESTIMATE		
DESCRIPTION	CUT VOL.	FILL VOL.
RAW VOLUMES TO FINISH GRADE	471 CY	4,043 CY
BITUMINOUS PAVEMENT HOLDDOWN	--	(-152 CY)
AGGREGATE BASE HOLDDOWN	--	(-423 CY)
SAND BASE HOLDDOWN	--	(-635 CY)
BORROW PIT VOLUME	2,362 CY	



NORTH

1 / C402

GRADING, DRAINAGE AND EROSION CONTROL PLAN

0 20' 40' 60'

1" = 20' (22" x 34")
1" = 40' (11" x 17")

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GRADING, DRAINAGE AND EROSION CONTROL PLAN

C402

NORTH

1 C403

GRADING, DRAINAGE AND EROSION CONTROL PLAN

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HAGEN LOT SPLIT SHARED DRIVEWAY

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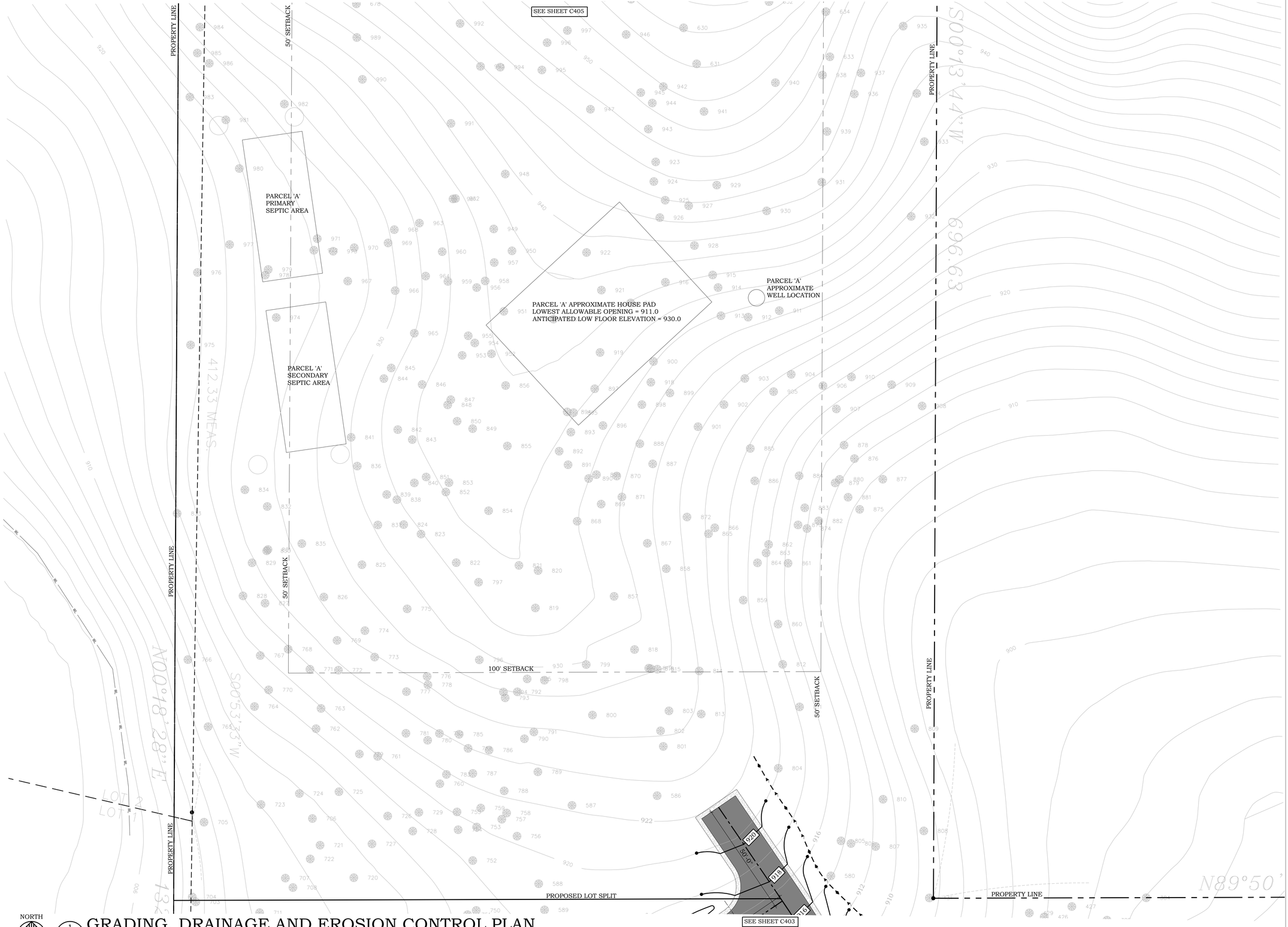
GRADING, DRAINAGE AND EROSION CONTROL PLAN

C403



NORTH

1
C404

GRADING, DRAINAGE AND EROSION CONTROL PLAN

0 20' 40' 60'

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HAGEN LOT SPLIT
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60TH STREET
SUNFISH LAKE, MINNESOTA 55077

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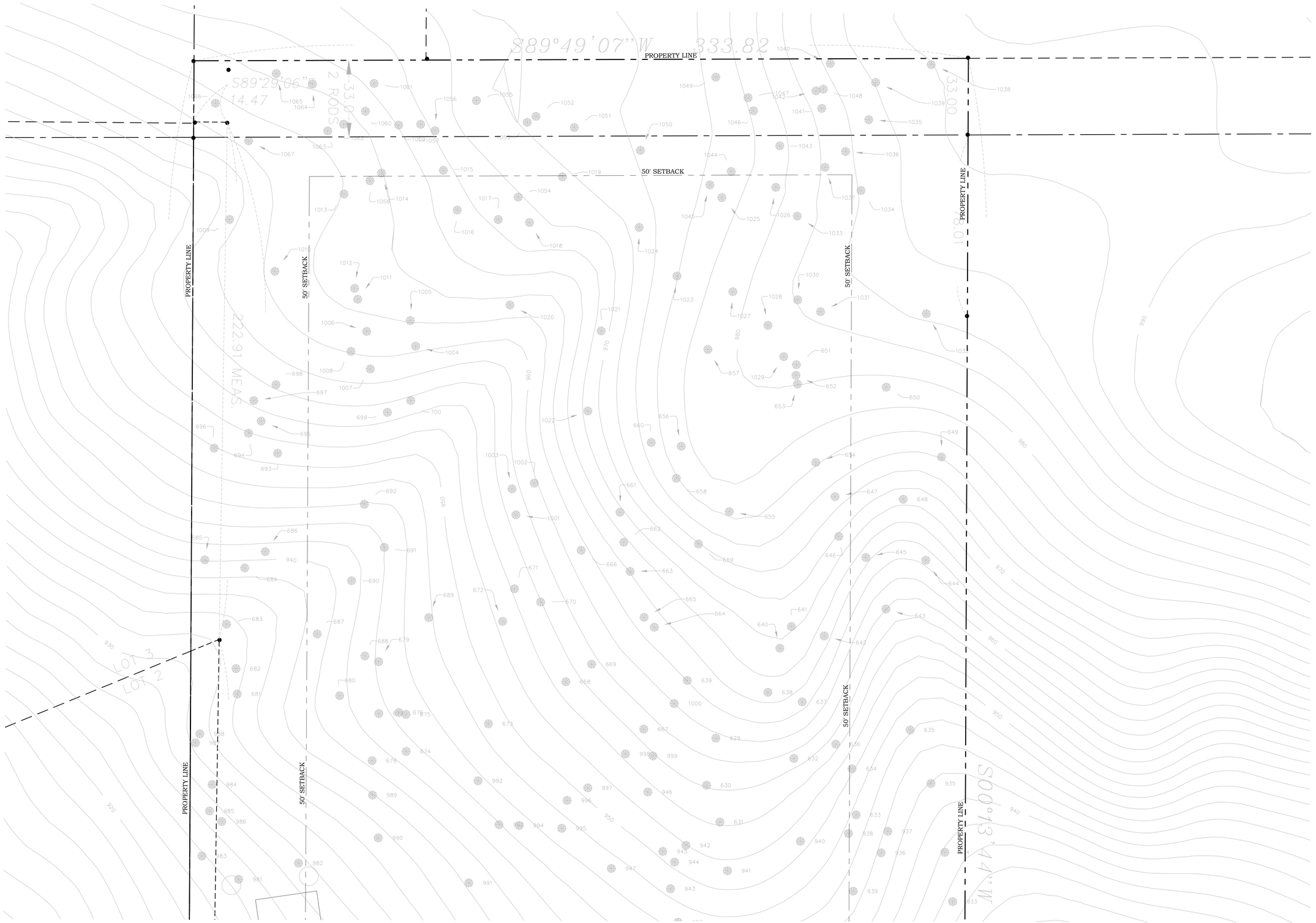
Drawing Title

GRADING, DRAINAGE AND EROSION CONTROL PLAN

C404



NORTH

1
C405

GRADING, DRAINAGE AND EROSION CONTROL PLAN

0 20' 40' 60'

SEE SHEET C404

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Consulting Civil Engineers

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HAGEN LOT SPLIT
SHARED DRIVEWAY

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SUNFISH LAKE, MINNESOTA 55077

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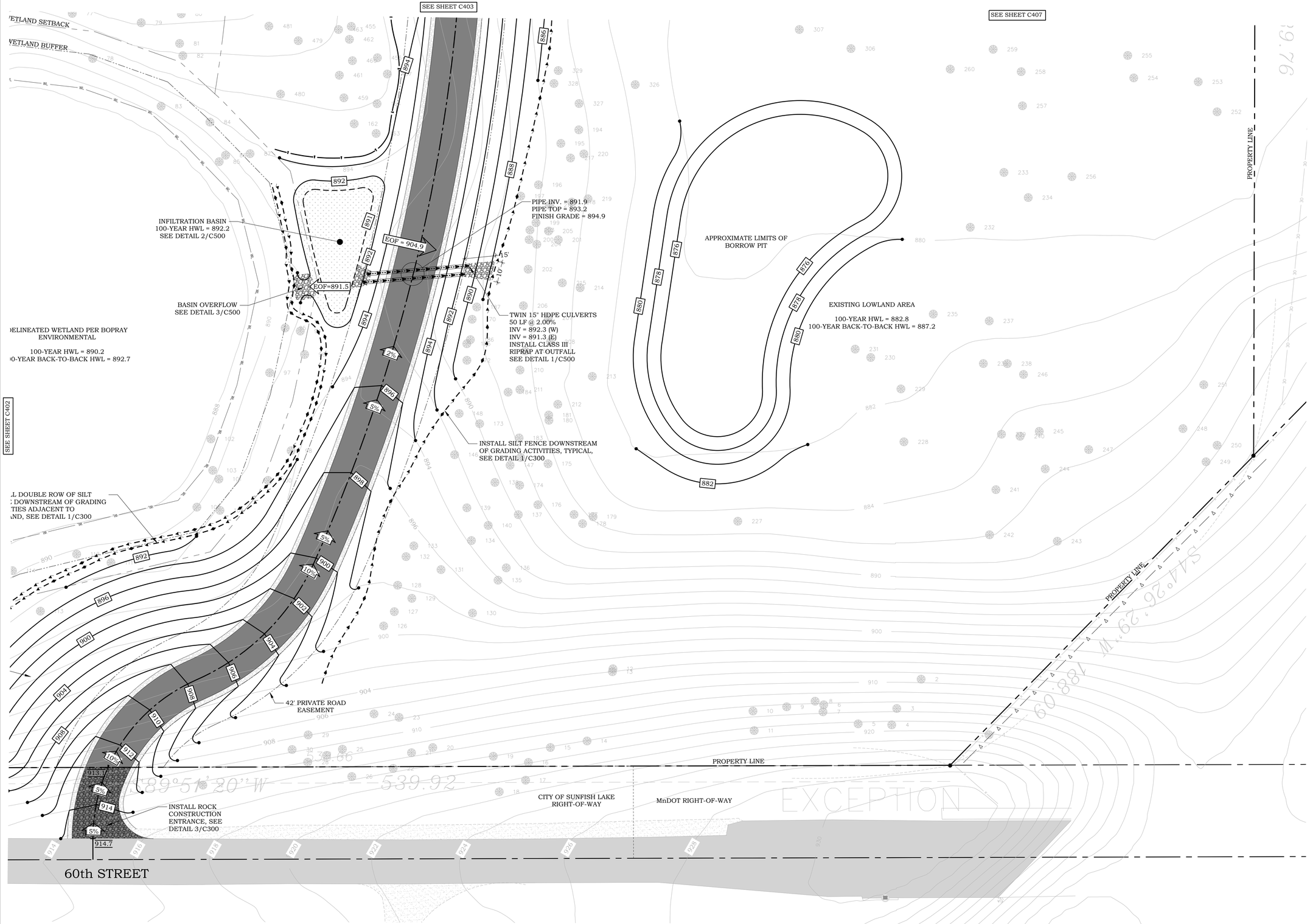

NORTH

1 C406

GRADING, DRAINAGE AND EROSION CONTROL PLAN

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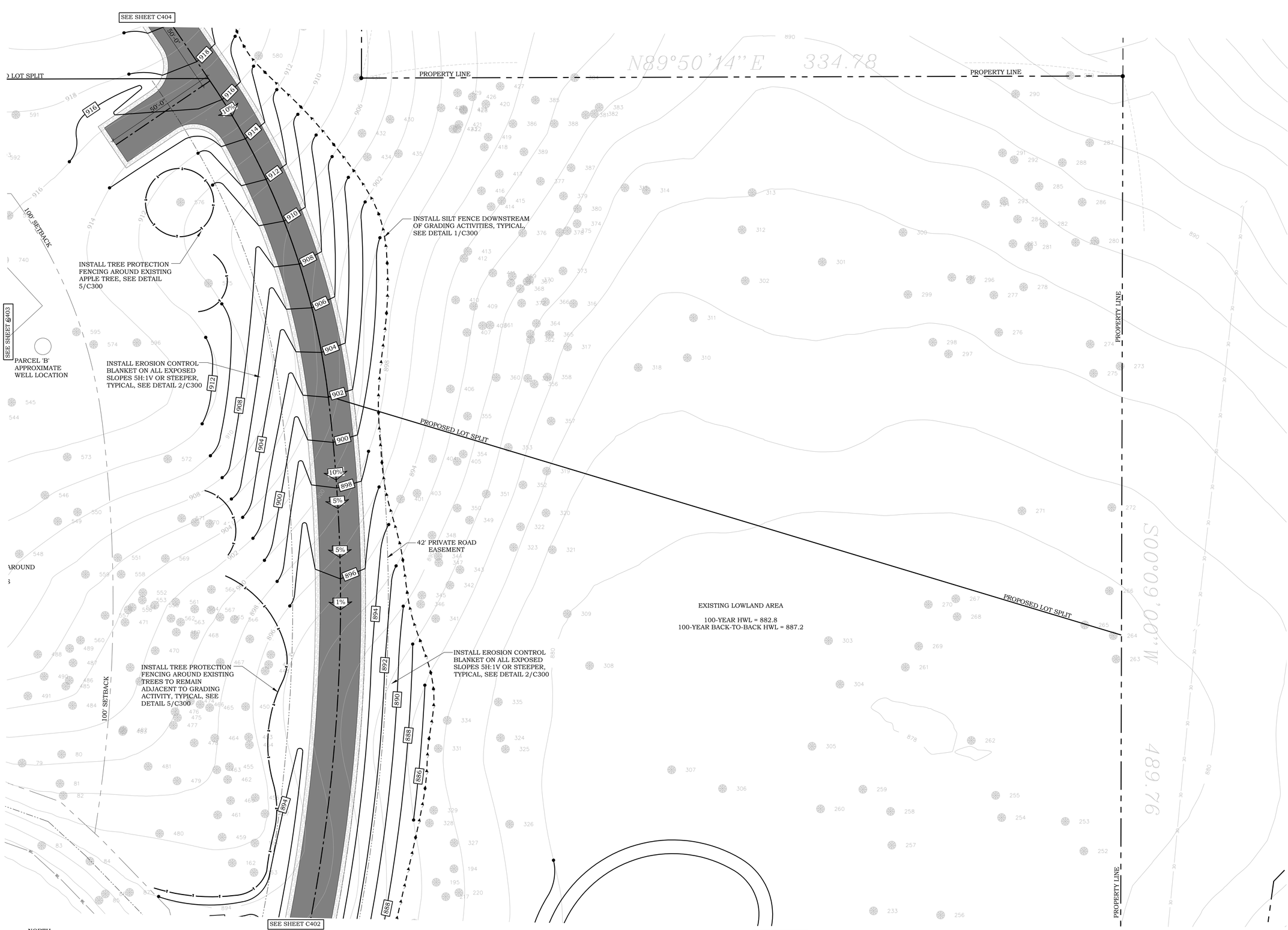
GRADING, DRAINAGE AND EROSION CONTROL PLAN

C406



NORTH

1
C403

GRADING, DRAINAGE AND EROSION CONTROL PLAN

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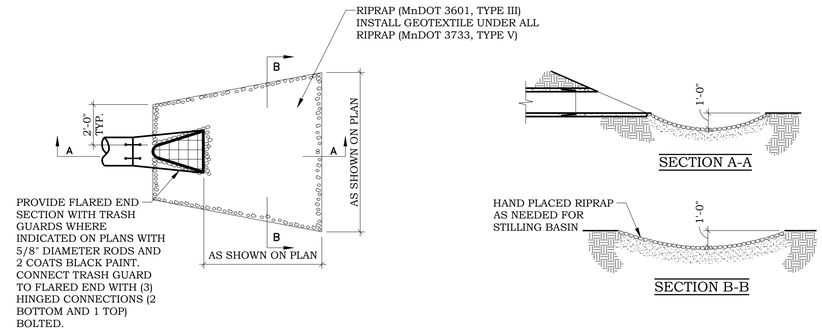
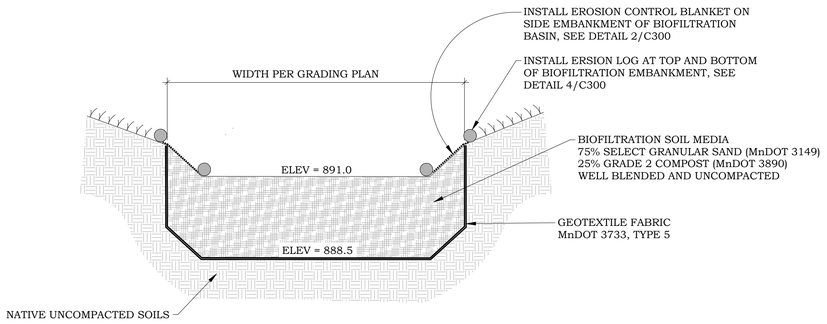


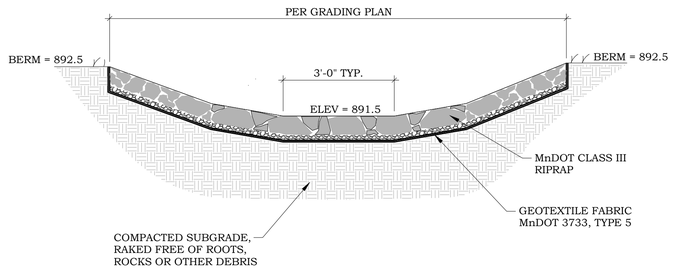
1 C500 FLARED END SECTION WITH RIPRAP

NO SCALE



2 C500 INFILTRATION BASIN SECTION

NO SCALE



3 C500 INFILTRATION BASIN OVERFLOW

NO SCALE

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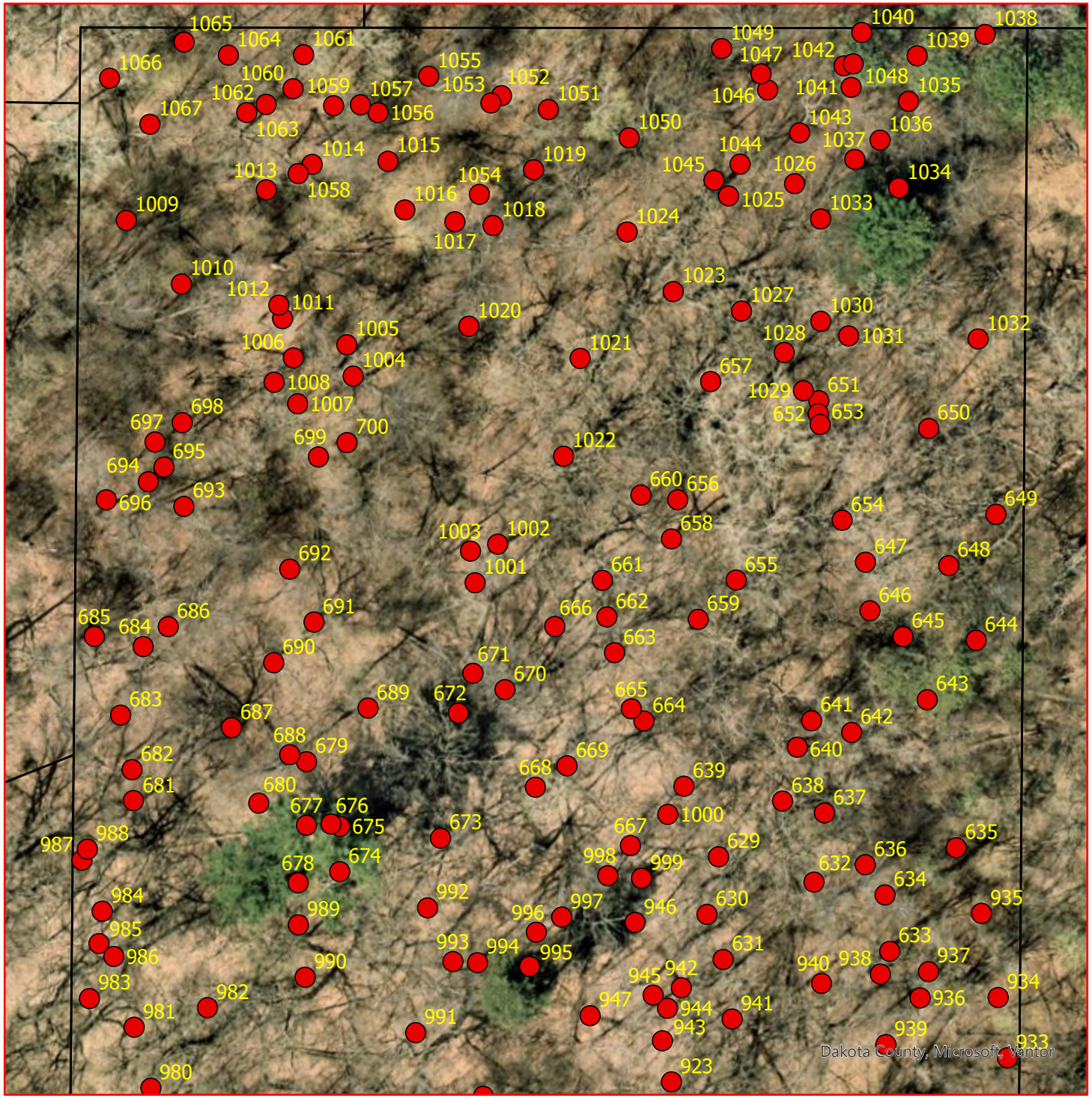
STORMWATER MANAGEMENT DETAILS

C500



TREE INVENTORY

SITE:

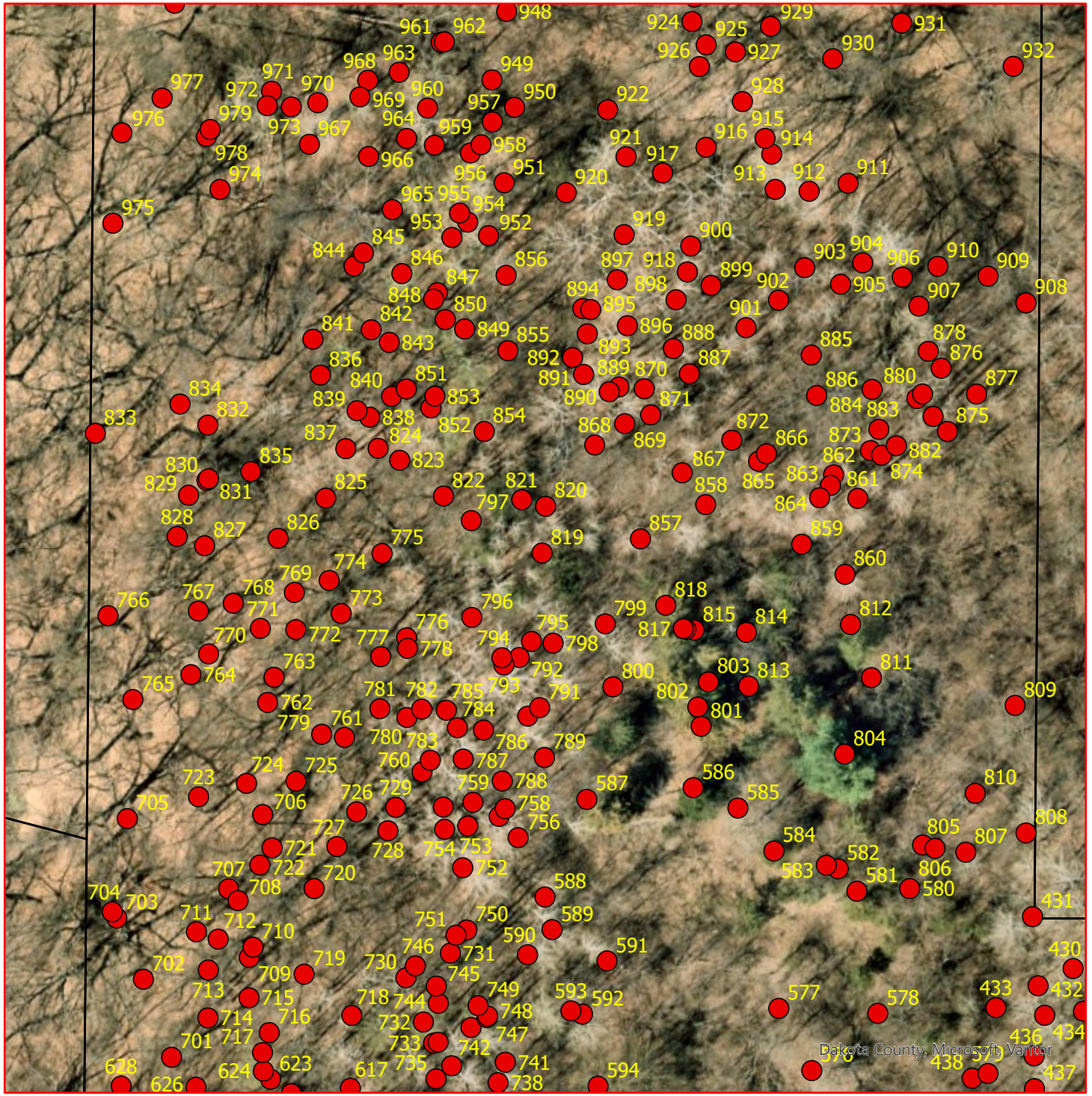
XXX 60TH ST W
SUNFISH LAKE, MN

CLIENT:

KYLE & KAYLA HAGEN

DATE: 11/15/25

Rehder Forestry Consulting



TREE INVENTORY

SITE:

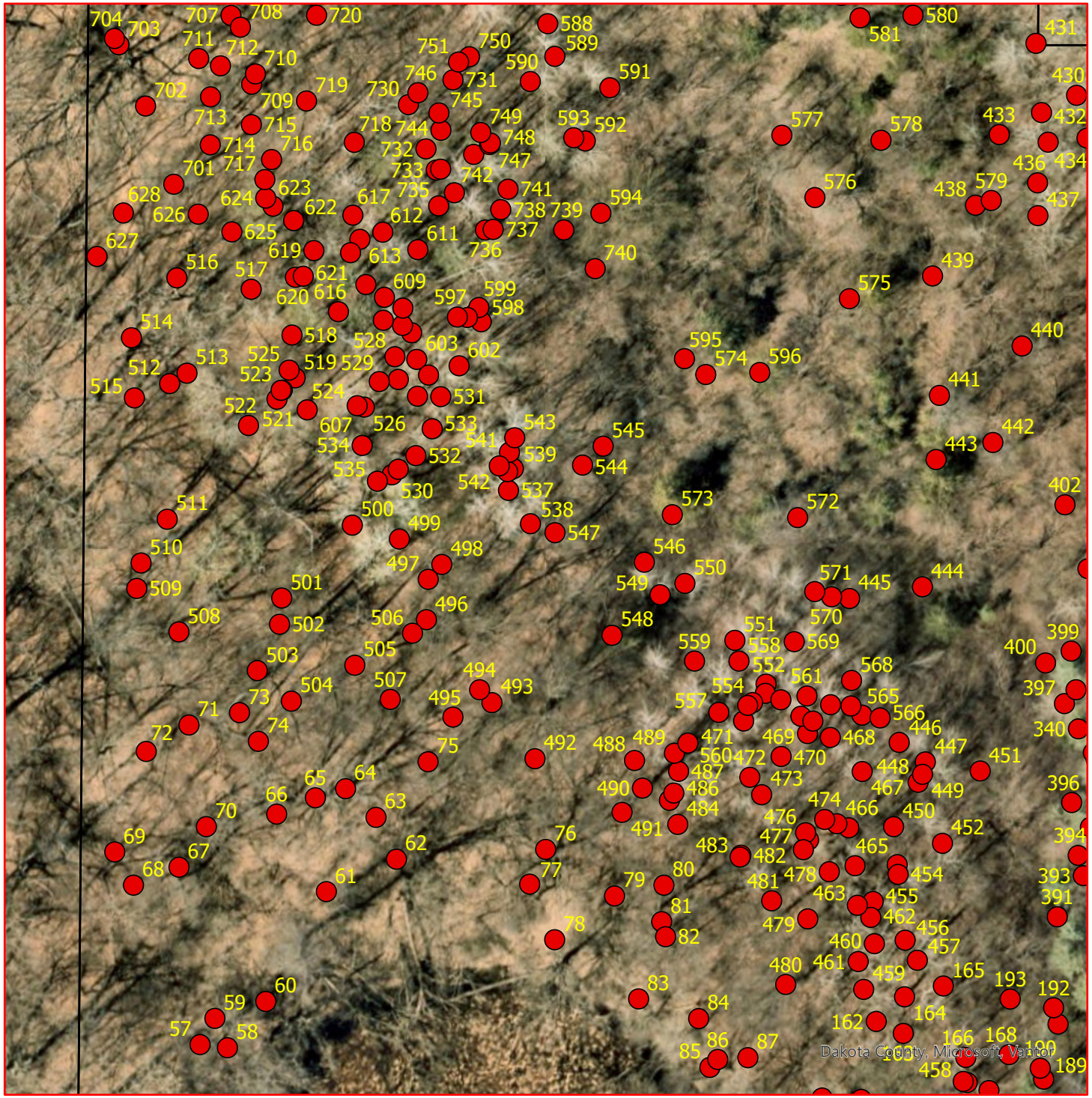
XXX 60TH ST W
SUNFISH LAKE, MN

CLIENT:

KYLE & KAYLA HAGEN

DATE: 11/15/25

Rehder Forestry Consulting



TREE INVENTORY

SITE:

XXX 60TH ST W
SUNFISH LAKE, MN

CLIENT:

KYLE & KAYLA HAGEN

DATE: 11/15/25

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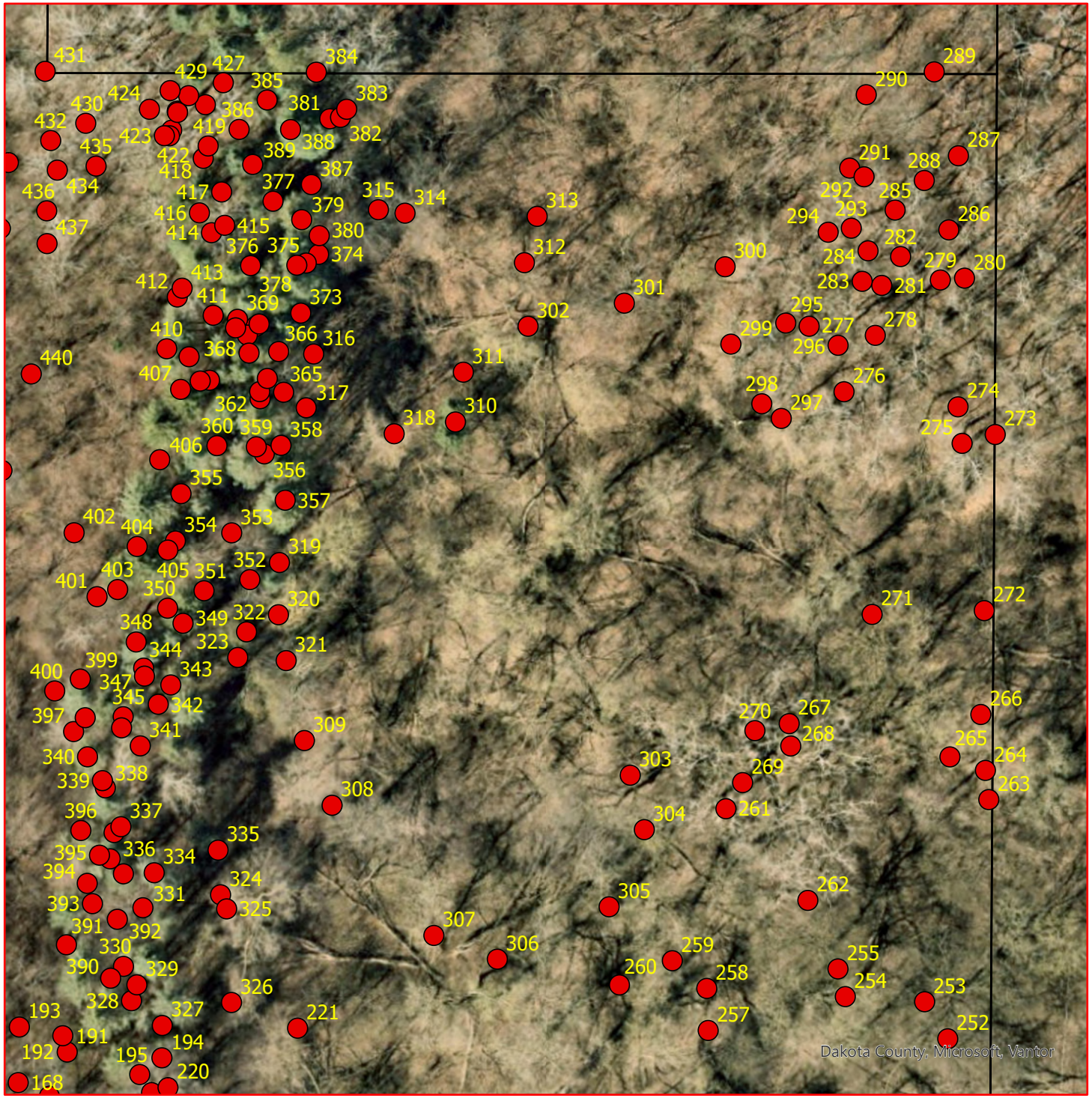

TREE INVENTORY

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DATE: 11/15/25

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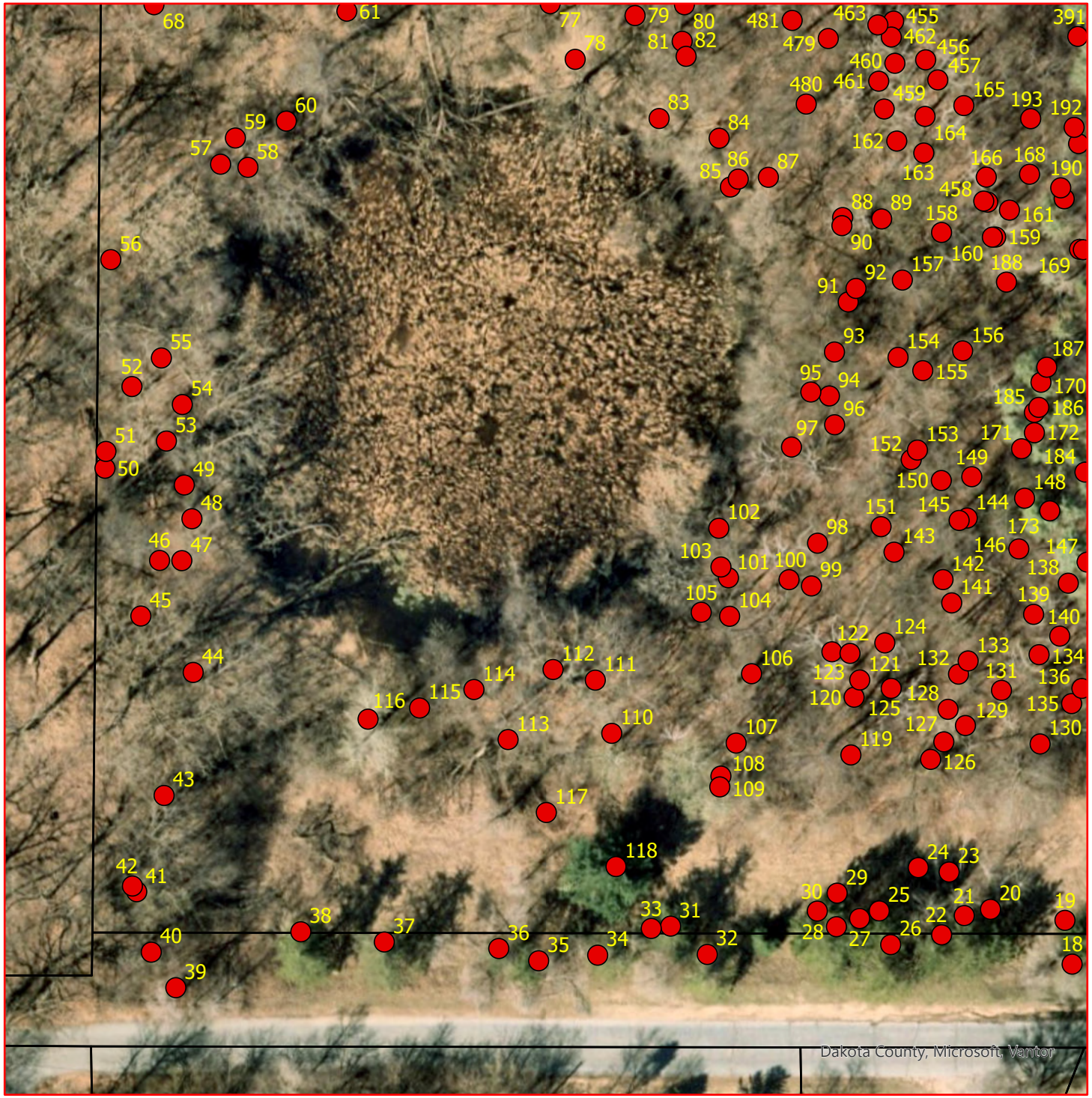

TREE INVENTORY

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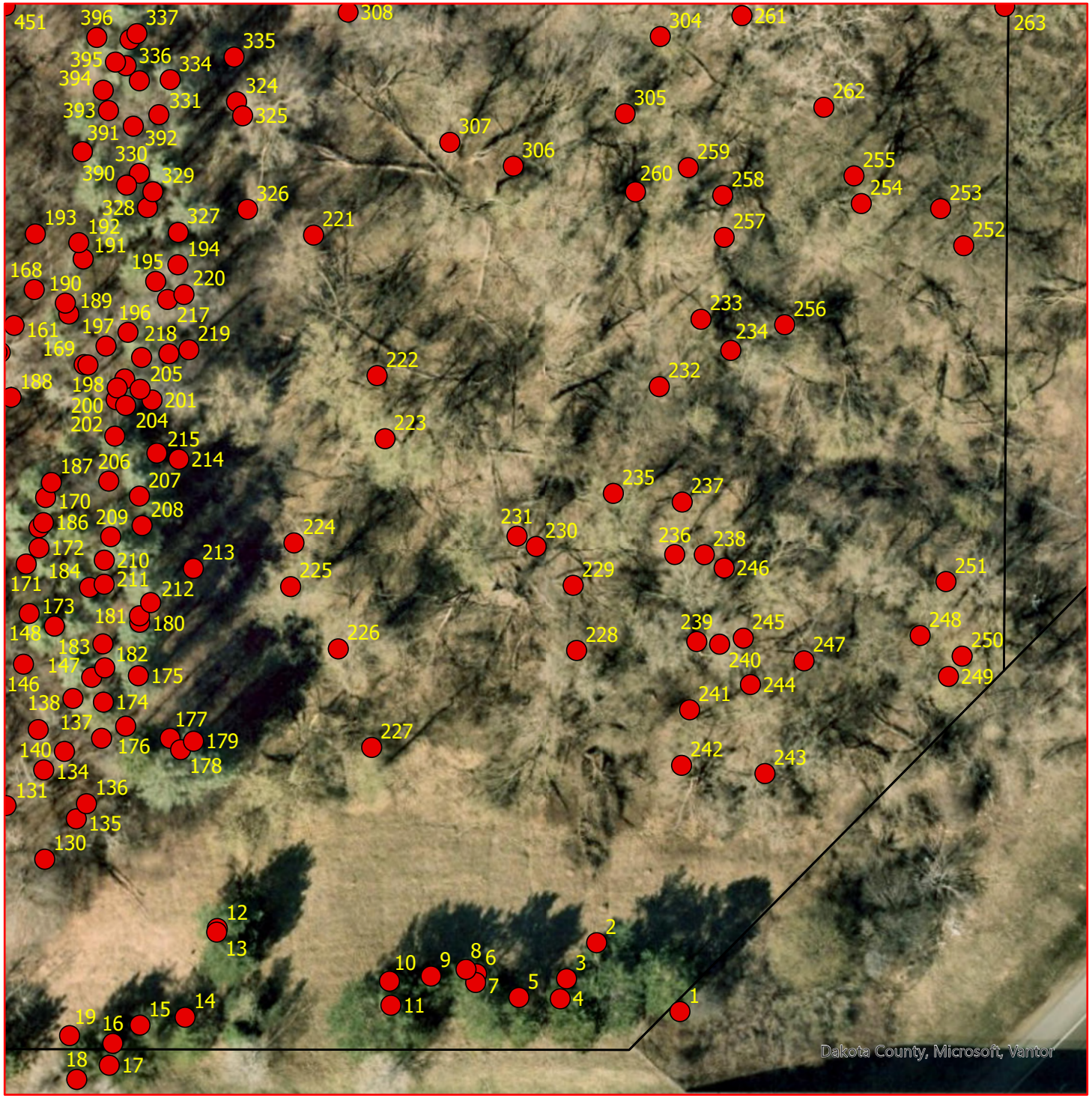

TREE INVENTORY

SITE:

XXX 60TH ST W
SUNFISH LAKE, MN

CLIENT:

KYLE & KAYLA HAGEN

DATE: 11/15/25

Rehder Forestry Consulting

Sunfish Lake Tree Inventory requirements have been provided verbally.

"Capture all 6" and above, healthy, trees on site"

All coordinates are in Dakota County US Survey Feet

A 2X in the Notes denotes a tree with 2 trunks, etc.

Rehder Forestry Consulting

Longitude	Latitude	Easting	Northing	FeatureName	Species	Diameter	Condition	Tag	Notes
-93.09381162	44.86201921	557789.425	242299.715	Tree	Pine, scotch	12	Good	1	
-93.09392491	44.86208564	557759.982	242323.856	Tree	Pine, scotch	14	Good	2	
-93.09396576	44.8620508	557749.424	242311.123	Tree	Pine, red	8	Fair	3	
-93.09397429	44.86203138	557747.23	242304.034	Tree	Pine, red	12	Good	4	
-93.09403049	44.86203263	557732.657	242304.452	Tree	Pine, red	8	Fair	5	
-93.094088	44.86205545	557717.719	242312.733	Tree	Pine, scotch	13	Good	6	
-93.09408927	44.86204707	557717.399	242309.676	Tree	Pine, red	7	Fair	7	
-93.09410241	44.86205973	557713.978	242314.281	Tree	Pine, red	9	Fair	8	
-93.09415	44.8620532	557701.646	242311.866	Tree	Pine, red	8	Fair	9	
-93.09420639	44.86204822	557687.028	242310.01	Tree	Pine, red	9	Fair	10	
-93.09420446	44.86202498	557687.551	242301.539	Tree	Pine, scotch	15	Good	11	
-93.09444049	44.86209897	557626.272	242328.35	Tree	Pine, scotch	11	Fair	12	
-93.09444133	44.86209547	557626.058	242327.074	Tree	Pine, scotch	14	Fair	13	
-93.09448414	44.86201313	557615.037	242297.021	Tree	Pine, jack	7	Fair	14	
-93.09454543	44.86200552	557599.153	242294.203	Tree	Pine, jack	8	Fair	15	
-93.09458233	44.86198782	557589.601	242287.723	Tree	Pine, jack	9	Fair	16	
-93.09458712	44.86196667	557588.379	242280.006	Tree	Elm, siberian	6	Fair	17	
-93.09463125	44.86195296	557576.949	242274.979	Tree	Elm, siberian	6	Fair	18	
-93.09464108	44.86199528	557574.358	242290.4	Tree	Pine, red	9	Good	19	
-93.0947423	44.86200585	557548.1	242294.182	Tree	Pine, red	7	Fair	20	
-93.09477793	44.86199977	557538.867	242291.942	Tree	Pine, jack	9	Fair	21	
-93.09480867	44.86198112	557530.916	242285.121	Tree	Pine, jack	8	Fair	22	
-93.09479858	44.86204188	557533.471	242307.279	Tree	Aspen, quaking	7	Fair	23	
-93.09484048	44.86204608	557522.602	242308.783	Tree	Aspen, quaking	7	Fair	24	
-93.09489346	44.86200417	557508.906	242293.463	Tree	Pine, red	9	Fair	25	
-93.09487786	44.8619716	557512.983	242281.599	Tree	Pine, jack	9	Fair	26	
-93.09492013	44.86199681	557501.996	242290.76	Tree	Pine, red	9	Fair	27	
-93.09495162	44.86198887	557493.839	242287.843	Tree	Pine, jack	9	Fair	28	
-93.09495073	44.8620213	557494.036	242299.67	Tree	Pine, red	8	Fair	29	
-93.09497766	44.86200395	557487.071	242293.326	Tree	Pine, red	10	Fair	30	
-93.09517698	44.86198923	557435.399	242287.815	Tree	Pine, jack	8	Fair	31	
-93.09512713	44.86196191	557448.354	242277.89	Tree	Pine, jack	8	Fair	32	
-93.09520329	44.86198699	557428.579	242286.981	Tree	Elm, siberian	7	Fair	33	
-93.09527606	44.86196107	557409.735	242277.481	Tree	Pine, jack	7	Fair	34	
-93.09535625	44.8619556	557388.944	242275.43	Tree	Pine, jack	7	Fair	35	
-93.09541053	44.86196742	557374.859	242279.701	Tree	Pine, jack	7	Fair	36	
-93.09556608	44.8619736	557334.515	242281.845	Tree	Pine, jack	10	Fair	37	
-93.09567953	44.86198334	557305.088	242285.317	Tree	Pine, jack	9	Good	38	
-93.09584937	44.86192916	557261.1	242265.441	Tree	Elm, siberian	10	Fair	39	
-93.09588276	44.86196349	557252.405	242277.934	Tree	Oak, white	12	Fair	40	
-93.09590263	44.86202188	557247.196	242299.21	Tree	Cherry, black	9	Fair	41	
-93.09590851	44.86202739	557245.666	242301.214	Tree	Elm, american	10	Fair	42	
-93.09586561	44.86211497	557256.703	242333.178	Tree	Oak, white	16	Good	43	
-93.09582627	44.86223391	557266.786	242376.572	Tree	Oak, white	22	Fair	44	
-93.09589747	44.86228837	557248.269	242396.379	Tree	Boxelder	6	Fair	45	
-93.0958721	44.86234215	557254.797	242416.006	Tree	Ironwood	9	Fair	46	
-93.09584187	44.86234198	557262.635	242415.963	Tree	Ironwood	6	Fair	47	
-93.09582824	44.86238244	557266.13	242430.727	Tree	Oak, bur	16	Fair	48	
-93.09583866	44.86241508	557263.397	242442.619	Tree	Oak, red	15	Fair	49	
-93.09594651	44.86243118	557235.414	242448.414	Tree	Oak, red	22	Good	50	
-93.09594521	44.86244745	557235.735	242454.347	Tree	Oak, bur	12	Fair	51	
-93.09590997	44.86251017	557244.81	242477.24	Tree	Oak, bur	16	Fair	52	

-93.09586303	44.86245754	557257.033	242458.085	Tree	Oak, bur	17	Fair	53	
-93.09584149	44.86249284	557262.585	242470.971	Tree	Oak, white	15	Fair	54	
-93.09587	44.86253782	557255.147	242487.349	Tree	Oak, bur	8	Fair	55	
-93.09593891	44.86263282	557237.185	242521.939	Tree	Oak, white	10	Fair	56	
-93.09578987	44.86272518	557275.74	242555.72	Tree	Oak, red	11	Fair	57	
-93.09575264	44.86272217	557285.397	242554.647	Tree	Oak, bur	8	Fair	58	
-93.09576976	44.86275053	557280.931	242564.977	Tree	Oak, white	17	Good	59	
-93.09570057	44.86276691	557298.856	242570.997	Tree	Oak, red	18	Good	60	
-93.09561849	44.8628732	557320.033	242609.811	Tree	Cherry, black	13	Good	61	
-93.09552324	44.8629046	557344.703	242621.325	Tree	Oak, bur	17	Fair	62	
-93.0955511	44.862945	557337.439	242636.038	Tree	Oak, bur	10	Fair	63	
-93.0955925	44.86297266	557326.675	242646.094	Tree	Oak, bur	16	Good	64	
-93.09563354	44.86296386	557316.041	242642.854	Tree	Oak, bur	22	Fair	65	
-93.09568613	44.86294804	557302.421	242637.051	Tree	Oak, bur	16	Good	66	
-93.09581877	44.86289663	557268.078	242618.211	Tree	Cherry, black	17	Good	67	
-93.09588062	44.86287919	557252.057	242611.81	Tree	Ironwood	8	Good	68	
-93.09590609	44.8629113	557245.419	242623.499	Tree	Ironwood	6	Fair	69	
-93.09578167	44.86293584	557277.659	242632.534	Tree	Oak, white	13	Good	70	
-93.09580545	44.86303408	557271.394	242668.336	Tree	Ironwood	6	Fair	71	
-93.09586353	44.86300847	557256.36	242658.957	Tree	Ironwood	12	Fair	72	
-93.09573676	44.86304609	557289.194	242672.762	Tree	Cherry, black	12	Fair	73	
-93.09571112	44.86301838	557295.871	242662.679	Tree	Ironwood	25	Fair	74	2x 13 12
-93.09548043	44.8629988	557355.711	242655.701	Tree	Cherry, black	14	Good	75	
-93.09532048	44.86291424	557397.272	242624.985	Tree	Oak, bur	19	Fair	76	
-93.09534211	44.86288064	557391.694	242612.716	Tree	Cherry, black	13	Fair	77	
-93.09530808	44.86282695	557400.572	242593.166	Tree	Oak, white	19	Good	78	
-93.09522678	44.86286932	557421.614	242608.67	Tree	Cherry, black	7	Fair	79	
-93.09515974	44.86287977	557438.986	242612.53	Tree	Oak, red	20	Fair	80	
-93.0951627	44.86284451	557438.255	242599.672	Tree	Oak, red	9	Fair	81	
-93.09515733	44.86282997	557439.66	242594.372	Tree	Cherry, black	8	Fair	82	
-93.09519394	44.86276986	557430.228	242572.431	Tree	Hackberry	7	Fair	83	
-93.09511231	44.86275085	557451.414	242565.556	Tree	Aspen, quaking	8	Fair	84	
-93.09509695	44.86270372	557455.442	242548.381	Tree	Cherry, black	8	Fair	85	
-93.09508625	44.86271139	557458.21	242551.187	Tree	Oak, white	6	Fair	86	
-93.09504531	44.86271315	557468.824	242551.859	Tree	Oak, white	13	Good	87	
-93.09494433	44.86267433	557495.048	242537.776	Tree	Cherry, black	10	Fair	88	
-93.09489128	44.86267303	557508.806	242537.338	Tree	Aspen, quaking	12	Fair	89	
-93.0949453	44.86266649	557494.804	242534.917	Tree	Ironwood	6	Fair	90	
-93.09493664	44.8625928	557497.122	242508.054	Tree	Cherry, black	7	Fair	91	
-93.09492606	44.86260584	557499.854	242512.816	Tree	Oak, red	20	Good	92	
-93.09495524	44.86254438	557492.349	242490.387	Tree	Oak, red	11	Fair	93	
-93.09496206	44.86250187	557490.623	242474.883	Tree	Oak, red	17	Good	94	
-93.0949873	44.86250566	557484.073	242476.247	Tree	Oak, bur	9	Fair	95	
-93.09495486	44.86247403	557492.515	242464.735	Tree	Cherry, black	7	Fair	96	
-93.09501348	44.86245244	557477.336	242456.824	Tree	Birch, paper	15	Fair	97	
-93.0949779	44.86235954	557486.655	242422.977	Tree	Birch, paper	8	Fair	98	
-93.09498611	44.86231822	557484.566	242407.906	Tree	Oak, red	15	Good	99	
-93.09501661	44.86232425	557476.652	242410.081	Tree	Birch, paper	12	Fair	100	
-93.09509895	44.86232601	557455.298	242410.667	Tree	Cherry, black	11	Fair	101	
-93.09511212	44.86237384	557451.836	242428.095	Tree	Oak, red	12	Good	102	
-93.09510917	44.86233642	557452.64	242414.454	Tree	Oak, bur	11	Fair	103	
-93.09509726	44.8622888	557455.774	242397.097	Tree	Cherry, black	9	Fair	104	
-93.09513588	44.86229266	557445.755	242398.48	Tree	Cherry, black	8	Fair	105	
-93.09506739	44.86223333	557463.575	242376.895	Tree	Cherry, black	15	Good	106	
-93.09508827	44.86216624	557458.228	242352.418	Tree	Boxelder	8	Fair	107	
-93.09510888	44.8621343	557452.915	242340.759	Tree	Aspen, quaking	10	Fair	108	
-93.09511038	44.86212387	557452.536	242336.953	Tree	Aspen, quaking	8	Fair	109	
-93.09525731	44.86217552	557414.384	242355.684	Tree	Cherry, black	7	Fair	110	
-93.09527974	44.86222691	557408.516	242374.403	Tree	Oak, red	17	Fair	111	
-93.0953372	44.86223716	557393.606	242378.102	Tree	Oak, bur	23	Good	112	
-93.09539819	44.8621694	557377.858	242353.352	Tree	Oak, red	24	Good	113	

-93.09544466	44.86221773	557365.759	242370.941	Tree	Oak, red	19	Fair	114
-93.09551849	44.86219979	557346.632	242364.346	Tree	Apple	8	Fair	115
-93.09558856	44.86218893	557328.473	242360.34	Tree	Cottonwood, eastern	27	Good	116
-93.09534611	44.86209891	557391.433	242327.688	Tree	Oak, swamp white	10	Good	117
-93.09525129	44.86204675	557416.072	242308.737	Tree	Oak, white	17	Fair	118
-93.09493226	44.86215489	557498.693	242348.392	Tree	Oak, red	17	Good	119
-93.09492799	44.86221071	557499.746	242368.745	Tree	Cherry, black	7	Good	120
-93.09492032	44.86222739	557501.719	242374.832	Tree	Birch, paper	9	Fair	121
-93.09495825	44.86225459	557491.856	242384.725	Tree	Birch, paper	8	Good	122
-93.09493364	44.86225307	557498.239	242384.188	Tree	Birch, paper	9	Good	123
-93.09488631	44.86226324	557510.502	242387.929	Tree	Birch, paper	10	Good	124
-93.09487761	44.86221931	557512.801	242371.916	Tree	Birch, paper	10	Good	125
-93.09482394	44.8621507	557526.788	242346.939	Tree	Elm, american	12	Fair	126
-93.09480598	44.86216768	557531.427	242353.142	Tree	Cherry, black	12	Fair	127
-93.09480029	44.86219911	557532.87	242364.607	Tree	Aspen, quaking	10	Fair	128
-93.09477662	44.86218347	557539.025	242358.92	Tree	Aspen, quaking	7	Fair	129
-93.09467513	44.86216574	557565.361	242352.53	Tree	Oak, red	18	Good	130
-93.0947277	44.86221755	557551.675	242371.38	Tree	Birch, paper	8	Fair	131
-93.09478613	44.86223314	557536.511	242377.024	Tree	Cherry, black	8	Fair	132
-93.09477305	44.86224589	557539.889	242381.684	Tree	Oak, red	9	Good	133
-93.09467666	44.86225205	557564.877	242383.998	Tree	Aspen, quaking	9	Fair	134
-93.09463237	44.8622048	557576.41	242366.799	Tree	Cherry, black	11	Fair	135
-93.0946185	44.86221946	557579.991	242372.155	Tree	Aspen, quaking	7	Fair	136
-93.09459811	44.8622827	557585.215	242395.227	Tree	Elm, american	17	Fair	137
-93.09463706	44.86232115	557575.077	242409.221	Tree	Aspen, quaking	8	Fair	138
-93.09468416	44.86229103	557562.894	242398.202	Tree	Birch, paper	7	Good	139
-93.09464857	44.86226998	557572.144	242390.554	Tree	Aspen, quaking	7	Fair	140
-93.09479548	44.862302	557534.016	242402.124	Tree	Oak, red	12	Good	141
-93.09480733	44.86232448	557530.921	242410.312	Tree	Cherry, black	6	Fair	142
-93.09487397	44.86235096	557513.615	242419.922	Tree	Oak, red	16	Good	143
-93.0947745	44.86238407	557539.374	242432.063	Tree	Oak, red	15	Good	144
-93.09478551	44.8623817	557536.522	242431.191	Tree	Cherry, black	6	Good	145
-93.09470436	44.86235425	557557.593	242421.239	Tree	Cherry, black	10	Good	146
-93.09461168	44.86234155	557581.64	242416.676	Tree	Cherry, black	9	Good	147
-93.0946966	44.86240322	557559.556	242439.102	Tree	Crabapple	12	Good	148
-93.09476844	44.86242398	557540.907	242446.62	Tree	Oak, red	16	Good	149
-93.09480981	44.86242028	557530.182	242445.24	Tree	Ironwood	6	Good	150
-93.09489166	44.86237559	557509.002	242428.889	Tree	Cherry, black	6	Good	151
-93.09485076	44.86244043	557519.544	242452.558	Tree	Oak, red	8	Good	152
-93.09484231	44.86244966	557521.726	242455.932	Tree	Oak, red	13	Good	153
-93.09486883	44.86253926	557514.761	242488.582	Tree	Oak, red	17	Good	154
-93.09483519	44.86252643	557523.496	242483.925	Tree	Oak, red	17	Good	155
-93.09478104	44.86254557	557537.519	242490.944	Tree	Cherry, black	13	Good	156
-93.0948631	44.86261397	557516.173	242515.824	Tree	Cherry, black	6	Good	157
-93.09480986	44.86266005	557529.931	242532.664	Tree	Oak, red	12	Good	158
-93.09473632	44.86265563	557549.007	242531.104	Tree	Aspen, quaking	9	Fair	159
-93.09474084	44.86265555	557547.834	242531.071	Tree	Cherry, black	12	Good	160
-93.0947176	44.86268171	557553.835	242540.626	Tree	Elm, american	17	Good	161
-93.09487089	44.86274833	557514.018	242564.807	Tree	Aspen, quaking	10	Fair	162
-93.09483418	44.86273679	557523.55	242560.627	Tree	Aspen, quaking	10	Fair	163
-93.0948325	44.86277218	557523.949	242573.53	Tree	Aspen, quaking	11	Fair	164
-93.09477979	44.86278268	557537.608	242577.395	Tree	Oak, red	8	Good	165
-93.09474917	44.86271359	557545.615	242552.228	Tree	Aspen, quaking	10	Fair	166
-93.09474721	44.86268941	557546.148	242543.413	Tree	Cherry, black	8	Fair	167
-93.09469035	44.8627164	557560.865	242553.294	Tree	Aspen, quaking	8	Fair	168
-93.09462238	44.86264392	557578.563	242526.914	Tree	Aspen, quaking	11	Fair	169
-93.0946745	44.86251535	557565.175	242479.999	Tree	Spruce, blue	10	Good	170
-93.09470077	44.86245105	557558.426	242456.537	Tree	Spruce, blue	10	Good	171
-93.0946834	44.86246656	557562.917	242462.204	Tree	Cherry, black	9	Fair	172
-93.09466235	44.86239108	557568.449	242434.698	Tree	Spruce, blue	13	Good	173
-93.09459565	44.86231766	557585.819	242407.976	Tree	Spruce, blue	6	Fair	174

-93.09454819	44.86234321	557598.1	242417.325	Tree	Spruce, blue	14	Good	175
-93.09456529	44.86229445	557593.714	242399.536	Tree	Cherry, black	11	Fair	176
-93.09450497	44.86228274	557609.368	242395.306	Tree	Spruce, blue	16	Good	177
-93.09449064	44.86227177	557613.096	242391.319	Tree	Spruce, blue	14	Good	178
-93.09447309	44.86227996	557617.637	242394.319	Tree	Spruce, blue	15	Good	179
-93.09454644	44.86239489	557598.504	242436.169	Tree	Spruce, blue	13	Good	180
-93.09454681	44.86240112	557598.4	242438.44	Tree	Spruce, blue	10	Good	181
-93.09459388	44.86235081	557586.245	242420.062	Tree	Spruce, blue	6	Fair	182
-93.09459643	44.86237397	557585.56	242428.508	Tree	Spruce, blue	13	Good	183
-93.09461466	44.86242853	557580.78	242448.386	Tree	Spruce, blue	11	Good	184
-93.09468344	44.86248623	557562.888	242469.377	Tree	Spruce, blue	7	Good	185
-93.09467748	44.86249108	557564.428	242471.149	Tree	Spruce, blue	7	Good	186
-93.09466666	44.86252989	557567.194	242485.307	Tree	Spruce, blue	15	Good	187
-93.09472154	44.86261213	557552.882	242515.252	Tree	Boxelder	6	Fair	188
-93.09464323	44.86269272	557573.108	242544.691	Tree	Spruce, blue	9	Fair	189
-93.09464798	44.86270329	557571.866	242548.542	Tree	Spruce, blue	10	Good	190
-93.0946238	44.86274601	557578.093	242564.135	Tree	Cherry, black	14	Good	191
-93.09462984	44.86276175	557576.511	242569.871	Tree	Crabapple	6	Fair	192
-93.09468889	44.86277012	557561.19	242572.88	Tree	Crabapple	6	Good	193
-93.09449511	44.86274049	557611.471	242562.215	Tree	Spruce, blue	12	Good	194
-93.09452525	44.86272433	557603.669	242556.303	Tree	Spruce, blue	7	Good	195
-93.09456283	44.86267513	557593.975	242538.335	Tree	Cherry, black	12	Good	196
-93.09459266	44.8626618	557586.253	242533.453	Tree	Cherry, black	8	Good	197
-93.09461722	44.86264353	557579.902	242526.775	Tree	Cherry, black	8	Good	198
-93.09456719	44.86263005	557592.89	242521.897	Tree	Spruce, blue	10	Good	199
-93.09457873	44.86260995	557589.916	242514.561	Tree	Spruce, blue	7	Good	200
-93.09453001	44.86260974	557602.55	242514.518	Tree	Cherry, black	7	Good	201
-93.09458059	44.86257474	557589.468	242501.721	Tree	Cherry, black	10	Good	202
-93.09457738	44.86262137	557590.256	242518.724	Tree	Cherry, black	12	Good	203
-93.09456589	44.86260442	557593.251	242512.554	Tree	Spruce, blue	10	Fair	204
-93.09454624	44.86262011	557598.331	242518.287	Tree	Spruce, blue	11	Good	205
-93.0945887	44.8625313	557587.408	242485.876	Tree	Spruce, blue	10	Good	206
-93.09454703	44.86251679	557598.229	242480.615	Tree	Spruce, blue	11	Good	207
-93.09454339	44.86248837	557599.2	242470.255	Tree	Spruce, blue	13	Good	208
-93.09458601	44.86247754	557588.161	242466.278	Tree	Spruce, blue	6	Good	209
-93.09459468	44.86245483	557585.935	242457.989	Tree	Spruce, blue	6	Good	210
-93.09459479	44.86243158	557585.928	242449.511	Tree	Spruce, blue	10	Good	211
-93.09453161	44.8624139	557602.329	242443.111	Tree	Spruce, blue	12	Good	212
-93.09447363	44.86244701	557617.331	242455.223	Tree	Spruce, blue	14	Good	213
-93.09449356	44.86255251	557612.059	242493.677	Tree	Spruce, blue	12	Good	214
-93.09452339	44.86255839	557604.319	242495.799	Tree	Spruce, blue	12	Good	215
-93.09454429	44.86265081	557598.805	242529.483	Tree	Spruce, blue	7	Good	216
-93.09450915	44.86270693	557607.863	242549.969	Tree	Spruce, blue	13	Good	217
-93.09450714	44.86265449	557608.436	242530.849	Tree	Spruce, blue	7	Fair	218
-93.09448002	44.86265832	557615.465	242532.266	Tree	Cherry, black	17	Good	219
-93.0944868	44.86271174	557613.652	242551.738	Tree	Elm, red	15	Good	220
-93.09431077	44.86276932	557659.243	242572.856	Tree	Boxelder	14	Good	221
-93.09422425	44.86263358	557681.813	242523.427	Tree	Boxelder	14	Fair	222
-93.09421336	44.86257261	557684.697	242501.203	Tree	Boxelder	17	Fair	223
-93.09433694	44.86247177	557652.753	242464.35	Tree	Boxelder	10	Fair	224
-93.09434137	44.86242948	557651.645	242448.925	Tree	Boxelder	18	Fair	225
-93.09427646	44.86236939	557668.537	242427.065	Tree	Boxelder	18	Fair	226
-93.09423098	44.86227418	557680.426	242392.382	Tree	Willow, black	12	Good	227
-93.09395261	44.86236811	557752.516	242426.827	Tree	Elm, american	14	Fair	228
-93.09395738	44.86243108	557751.216	242449.784	Tree	Elm, american	14	Good	229
-93.09400772	44.86246858	557738.126	242463.418	Tree	Elm, american	10	Good	230
-93.09403375	44.86247857	557731.366	242467.043	Tree	Elm, american	9	Good	231
-93.09384063	44.86262322	557781.3	242519.92	Tree	Elm, american	20	Fair	232
-93.09378403	44.86268837	557795.913	242543.714	Tree	Boxelder	10	Fair	233
-93.09374351	44.86265835	557806.45	242532.799	Tree	Boxelder	8	Fair	234
-93.09390292	44.86252	557765.25	242482.242	Tree	Boxelder	20	Fair	235

-93.09381941	44.86246097	557786.964	242460.779	Tree	Boxelder	9	Fair	236
-93.09380933	44.86251168	557789.528	242479.276	Tree	Boxelder	7	Fair	237
-93.09377922	44.86246084	557797.387	242460.759	Tree	Boxelder	17	Fair	238
-93.09378931	44.86237688	557794.855	242430.14	Tree	Boxelder	14	Fair	239
-93.09375824	44.86237434	557802.912	242429.236	Tree	Boxelder	16	Fair	240
-93.09379891	44.86231089	557792.429	242406.072	Tree	Boxelder	7	Fair	241
-93.09380976	44.86225721	557789.671	242386.492	Tree	Boxelder	10	Fair	242
-93.09369643	44.86224935	557819.066	242383.708	Tree	Boxelder	22	Fair	243
-93.09371631	44.86233539	557813.825	242415.064	Tree	Boxelder	8	Fair	244
-93.09372612	44.86238017	557811.237	242431.385	Tree	Boxelder	6	Fair	245
-93.09375223	44.86244792	557804.398	242456.067	Tree	Boxelder	17	Fair	246
-93.09364351	44.86235832	557832.68	242423.477	Tree	Elm, american	11	Fair	247
-93.09348571	44.86238294	557873.574	242432.564	Tree	Boxelder	22	Fair	248
-93.09344718	44.86234339	557883.604	242418.173	Tree	Elm, american	11	Fair	249
-93.09342862	44.86236303	557888.398	242425.345	Tree	Boxelder	10	Fair	250
-93.09345072	44.86243514	557882.595	242451.624	Tree	Boxelder	12	Fair	251
-93.09342712	44.86275978	557888.39	242570.006	Tree	Elm, american	12	Good	252
-93.09345856	44.86279556	557880.202	242583.03	Tree	Elm, american	36	Fair	253
-93.09356639	44.86280043	557852.235	242584.728	Tree	Elm, american	14	Good	254
-93.09357641	44.8628272	557849.612	242594.48	Tree	Boxelder	23	Fair	255
-93.09367035	44.86268323	557825.396	242541.921	Tree	Boxelder	8	Fair	256
-93.09375273	44.86276758	557803.949	242572.619	Tree	Elm, american	13	Fair	257
-93.0937547	44.86280818	557803.397	242587.421	Tree	Boxelder	16	Fair	258
-93.09380153	44.86283493	557791.228	242597.14	Tree	Boxelder	8	Fair	259
-93.09387339	44.86281148	557772.617	242588.541	Tree	Boxelder	11	Fair	260
-93.09372895	44.8629819	557809.903	242650.778	Tree	Boxelder	13	Fair	261
-93.09361747	44.86289341	557838.898	242618.595	Tree	Elm, american	26	Good	262
-93.0933717	44.86299102	557902.529	242654.356	Tree	Elm, american	25	Good	263
-93.09337633	44.86301924	557901.302	242664.643	Tree	Boxelder	7	Fair	264
-93.09342455	44.86303225	557888.786	242669.351	Tree	Boxelder	11	Fair	265
-93.09338267	44.86307328	557899.604	242684.343	Tree	Boxelder	15	Fair	266
-93.09364311	44.86306425	557832.079	242680.864	Tree	Boxelder	14	Fair	267
-93.09364097	44.86304261	557832.655	242672.976	Tree	Boxelder	16	Fair	268
-93.09370628	44.86300718	557815.756	242660.014	Tree	Boxelder	16	Fair	269
-93.09368968	44.86305742	557820.008	242678.343	Tree	Cottonwood, eastern	60	Fair	270
-93.09353056	44.86316988	557861.159	242719.46	Tree	Boxelder	16	Fair	271
-93.09337816	44.86317366	557900.673	242720.946	Tree	Boxelder	13	Fair	272
-93.09336352	44.8633439	557904.3	242783.028	Tree	Aspen, quaking	10	Good	273
-93.09341411	44.86337061	557891.153	242792.732	Tree	Aspen, quaking	14	Good	274
-93.09340852	44.86333532	557892.64	242779.865	Tree	Aspen, quaking	7	Good	275
-93.0935691	44.86338507	557850.948	242797.892	Tree	Aspen, quaking	14	Fair	276
-93.09357723	44.86342996	557848.796	242814.253	Tree	Aspen, quaking	16	Fair	277
-93.09352671	44.86343962	557861.887	242817.812	Tree	Aspen, quaking	11	Fair	278
-93.09343841	44.8634932	557884.731	242837.41	Tree	Aspen, quaking	11	Good	279
-93.0934055	44.863495	557893.263	242838.091	Tree	Aspen, quaking	7	Fair	280
-93.09351802	44.86348791	557864.093	242835.426	Tree	Aspen, quaking	12	Fair	281
-93.09349238	44.86351579	557870.713	242845.607	Tree	Aspen, quaking	11	Good	282
-93.09354457	44.86349182	557857.205	242836.831	Tree	Aspen, quaking	14	Good	283
-93.09353665	44.86352133	557859.229	242847.598	Tree	Oak, red	8	Good	284
-93.09349995	44.86356073	557868.706	242861.989	Tree	Aspen, quaking	10	Good	285
-93.09342698	44.86354165	557887.646	242855.084	Tree	Oak, red	8	Good	286
-93.09341399	44.8636133	557890.942	242881.215	Tree	Aspen, quaking	11	Good	287
-93.09346036	44.86358937	557878.942	242872.461	Tree	Birch, paper	7	Good	288
-93.09344704	44.86369438	557882.291	242910.756	Tree	Oak, red	15	Good	289
-93.09353936	44.8636722	557858.375	242902.604	Tree	Boxelder	7	Fair	290
-93.09356177	44.86360125	557852.634	242876.72	Tree	Cherry, black	10	Good	291
-93.09354219	44.86359289	557857.719	242873.684	Tree	Aspen, quaking	14	Good	292
-93.09355948	44.86354318	557853.287	242855.546	Tree	Aspen, quaking	10	Good	293
-93.09359088	44.86353926	557845.148	242854.097	Tree	Aspen, quaking	11	Good	294
-93.09364839	44.86345142	557830.324	242822.026	Tree	Aspen, quaking	15	Good	295
-93.0936166	44.86344833	557838.568	242820.922	Tree	Aspen, quaking	11	Good	296

-93.09365433	44.86335922	557828.874	242788.405	Tree	Boxelder	16	Fair	297
-93.09368084	44.86337337	557821.987	242793.548	Tree	Boxelder	11	Fair	298
-93.09372293	44.86343099	557811.015	242814.525	Tree	Boxelder	14	Fair	299
-93.09373089	44.86350577	557808.876	242841.784	Tree	Boxelder	7	Fair	300
-93.09386781	44.86347047	557773.406	242828.816	Tree	Oak, red	20	Good	301
-93.09399861	44.86344801	557739.513	242820.536	Tree	Boxelder	14	Fair	302
-93.09385902	44.86301419	557776.142	242662.459	Tree	Elm, american	19	Good	303
-93.09383985	44.86296161	557781.164	242643.301	Tree	Boxelder	15	Fair	304
-93.09388756	44.86288698	557768.867	242616.059	Tree	Boxelder	17	Fair	305
-93.09403939	44.86283623	557729.547	242597.447	Tree	Boxelder	9	Fair	306
-93.0941257	44.8628591	557707.144	242605.724	Tree	Boxelder	14	Fair	307
-93.09426422	44.8629848	557671.099	242651.457	Tree	Boxelder	14	Fair	308
-93.09430195	44.86304733	557661.252	242674.23	Tree	Boxelder	13	Fair	309
-93.09409715	44.86335546	557714.053	242786.723	Tree	Spruce, blue	8	Fair	310
-93.09408651	44.86340358	557716.764	242804.274	Tree	Spruce, blue	9	Fair	311
-93.0940037	44.86350947	557738.13	242842.942	Tree	Boxelder	21	Fair	312
-93.09398641	44.86355425	557742.569	242859.279	Tree	Crabapple	7	Good	313
-93.09416602	44.8635572	557695.993	242860.227	Tree	Cherry, black	22	Fair	314
-93.09420218	44.86356048	557686.612	242861.399	Tree	Cherry, black	12	Good	315
-93.09428998	44.86342098	557663.984	242810.472	Tree	Cherry, black	7	Fair	316
-93.09430001	44.86336898	557661.434	242791.505	Tree	Cherry, black	7	Fair	317
-93.09418042	44.86334396	557692.471	242782.469	Tree	Boxelder	11	Fair	318
-93.09433614	44.86321935	557652.215	242736.924	Tree	Boxelder	12	Fair	319
-93.09433742	44.86316892	557651.934	242718.536	Tree	Boxelder	13	Fair	320
-93.09432687	44.86312458	557654.715	242702.377	Tree	Cherry, black	21	Fair	321
-93.09438075	44.86315233	557640.715	242712.457	Tree	Crabapple	10	Fair	322
-93.09439265	44.86312756	557637.655	242703.417	Tree	Crabapple	17	Fair	323
-93.09441563	44.86289815	557631.923	242619.754	Tree	Boxelder	21	Fair	324
-93.09440739	44.86288454	557634.073	242614.801	Tree	Boxelder	9	Fair	325
-93.09440058	44.86279408	557635.93	242581.821	Tree	Spruce, blue	15	Good	326
-93.09449465	44.86277175	557611.557	242573.614	Tree	Spruce, blue	9	Good	327
-93.09453652	44.86279565	557600.678	242582.296	Tree	Spruce, blue	6	Good	328
-93.09452925	44.86281104	557602.546	242587.914	Tree	Spruce, blue	11	Good	329
-93.09454748	44.86282885	557597.803	242594.396	Tree	Spruce, blue	10	Good	330
-93.09452118	44.86288555	557604.565	242615.088	Tree	Spruce, blue	6	Good	331
-93.09454772	44.86291831	557597.65	242627.012	Tree	Cherry, black	23	Good	332
-93.09456576	44.8629328	557592.957	242632.284	Tree	Spruce, blue	9	Good	333
-93.09450587	44.86291938	557608.501	242627.432	Tree	Spruce, blue	13	Good	334
-93.09441911	44.86294134	557630.978	242635.499	Tree	Spruce, blue	8	Good	335
-93.09456049	44.86295817	557594.3	242641.538	Tree	Spruce, blue	10	Good	336
-93.09455118	44.86296385	557596.708	242643.615	Tree	Spruce, blue	8	Good	337
-93.09457241	44.86300136	557591.165	242657.278	Tree	Spruce, blue	10	Good	338
-93.09457637	44.86300837	557590.133	242659.828	Tree	Aspen, quaking	11	Good	339
-93.09459666	44.86303136	557584.849	242668.197	Tree	Aspen, quaking	14	Good	340
-93.09452496	44.863042	557603.428	242672.129	Tree	Spruce, blue	11	Good	341
-93.09450065	44.86308223	557609.693	242686.814	Tree	Spruce, blue	13	Good	342
-93.09448362	44.86310093	557614.091	242693.643	Tree	Spruce, blue	9	Good	343
-93.09452055	44.86311717	557604.498	242699.537	Tree	Cherry, black	7	Fair	344
-93.09454827	44.86307021	557597.356	242682.395	Tree	Spruce, blue	11	Good	345
-93.09455042	44.86305943	557596.811	242678.465	Tree	Spruce, blue	7	Good	346
-93.09451938	44.86310944	557604.81	242696.721	Tree	Spruce, blue	10	Good	347
-93.09453072	44.86314243	557601.835	242708.74	Tree	Spruce, blue	12	Good	348
-93.09446713	44.86316054	557618.308	242715.39	Tree	Spruce, blue	6	Good	349
-93.09448804	44.8631751	557612.871	242720.684	Tree	Spruce, blue	10	Good	350
-93.09443863	44.86319202	557625.667	242726.886	Tree	Spruce, blue	10	Good	351
-93.09437638	44.86320281	557641.798	242730.867	Tree	Spruce, blue	9	Good	352
-93.09440107	44.86324802	557635.35	242747.331	Tree	Cherry, black	18	Fair	353
-93.09447757	44.86324011	557615.522	242744.393	Tree	Spruce, blue	10	Good	354
-93.09447002	44.86328581	557617.433	242761.063	Tree	Spruce, blue	7	Good	355
-93.09435693	44.86332436	557646.719	242775.199	Tree	Spruce, blue	12	Good	356
-93.09432841	44.86327962	557654.16	242758.905	Tree	Spruce, blue	10	Good	357

-93.0943342	44.86333265	557652.605	242778.235	Tree	Spruce, blue	13	Good	358
-93.09436778	44.8633312	557643.901	242777.686	Tree	Spruce, blue	11	Good	359
-93.09442123	44.86333227	557630.038	242778.038	Tree	Spruce, blue	10	Good	360
-93.09443148	44.86339549	557627.319	242801.078	Tree	Spruce, blue	6	Good	361
-93.09436268	44.86337766	557645.176	242794.628	Tree	Spruce, blue	10	Good	362
-93.09436328	44.86338456	557645.013	242797.142	Tree	Spruce, blue	8	Good	363
-93.09435289	44.86339728	557647.694	242801.789	Tree	Spruce, blue	13	Good	364
-93.09433074	44.86338397	557653.452	242796.952	Tree	Spruce, blue	10	Good	365
-93.09433752	44.86342329	557651.656	242811.282	Tree	Cherry, black	9	Good	366
-93.09436845	44.86344778	557643.61	242820.191	Tree	Spruce, blue	10	Good	367
-93.09438016	44.86343918	557640.582	242817.046	Tree	Spruce, blue	6	Good	368
-93.09439345	44.86345439	557637.121	242822.582	Tree	Spruce, blue	6	Good	369
-93.09436414	44.86344997	557644.725	242820.992	Tree	Spruce, blue	10	Good	370
-93.09439613	44.86344618	557636.434	242819.585	Tree	Spruce, blue	9	Good	371
-93.0943778	44.86342179	557641.21	242810.705	Tree	Spruce, blue	11	Good	372
-93.09430753	44.86346049	557659.395	242824.867	Tree	Spruce, blue	7	Good	373
-93.09428341	44.86351731	557665.591	242845.602	Tree	Spruce, blue	10	Good	374
-93.09430017	44.86350889	557661.256	242842.518	Tree	Spruce, blue	10	Good	375
-93.0943758	44.86350633	557641.645	242841.534	Tree	Spruce, blue	8	Good	376
-93.09434544	44.86356862	557649.456	242864.266	Tree	Spruce, blue	10	Good	377
-93.094313	44.8635068	557657.929	242841.748	Tree	Spruce, blue	11	Good	378
-93.09430644	44.86355077	557659.588	242857.784	Tree	Spruce, blue	17	Good	379
-93.09428259	44.86353539	557665.786	242852.195	Tree	Spruce, blue	15	Good	380
-93.09426841	44.86364834	557669.351	242893.386	Tree	Aspen, quaking	10	Good	381
-93.09425385	44.86364971	557673.125	242893.897	Tree	Spruce, blue	16	Good	382
-93.09424543	44.86365755	557675.302	242896.762	Tree	Elm, american	14	Fair	383
-93.0942868	44.86369337	557664.539	242909.791	Tree	Spruce, blue	7	Good	384
-93.09435359	44.86366644	557647.246	242899.926	Tree	Spruce, blue	8	Good	385
-93.09439167	44.86363797	557637.399	242889.52	Tree	Spruce, blue	8	Good	386
-93.09429341	44.86358474	557662.933	242870.18	Tree	Spruce, blue	13	Good	387
-93.09432174	44.86363787	557655.533	242889.531	Tree	Spruce, blue	7	Good	388
-93.09437316	44.86360413	557642.234	242877.194	Tree	Spruce, blue	9	Good	389
-93.0945649	44.8628174	557593.296	242590.209	Tree	Spruce, blue	11	Good	390
-93.09462506	44.86284966	557577.665	242601.929	Tree	Spruce, blue	10	Good	391
-93.09455591	44.86287435	557595.569	242610.979	Tree	Spruce, blue	8	Fair	392
-93.09458974	44.86288946	557586.782	242616.464	Tree	Spruce, blue	11	Good	393
-93.09459684	44.86290906	557584.922	242623.604	Tree	Boxelder	7	Fair	394
-93.09458026	44.86293631	557589.194	242633.554	Tree	Spruce, blue	7	Good	395
-93.09460561	44.86296013	557582.597	242642.219	Tree	Spruce, blue	8	Good	396
-93.09461565	44.86305575	557579.899	242677.076	Tree	Spruce, blue	12	Good	397
-93.0945999	44.86306916	557583.969	242681.977	Tree	Aspen, quaking	8	Fair	398
-93.0946066	44.8631065	557582.196	242695.588	Tree	Spruce, blue	11	Good	399
-93.09464138	44.86309501	557573.189	242691.371	Tree	Spruce, blue	11	Good	400
-93.09458396	44.86318617	557587.988	242724.65	Tree	Birch, paper	8	Good	401
-93.09461529	44.86324794	557579.802	242747.151	Tree	Elm, american	11	Fair	402
-93.09455597	44.86319308	557595.237	242727.191	Tree	Cherry, black	13	Fair	403
-93.09452953	44.86323472	557602.053	242742.393	Tree	Spruce, blue	10	Fair	404
-93.09448787	44.86323129	557612.859	242741.172	Tree	Spruce, blue	15	Fair	405
-93.09449899	44.86331863	557609.888	242773.007	Tree	Spruce, blue	15	Fair	406
-93.09447072	44.86338664	557617.152	242797.826	Tree	Spruce, blue	14	Fair	407
-93.09444413	44.86339473	557624.039	242800.794	Tree	Spruce, blue	15	Fair	408
-93.09445931	44.86341818	557620.078	242809.333	Tree	Crabapple	6	Fair	409
-93.09448965	44.86342587	557612.203	242812.116	Tree	Spruce, blue	10	Fair	410
-93.09442659	44.86345829	557628.524	242823.98	Tree	Spruce, blue	9	Fair	411
-93.09447539	44.86347592	557615.851	242830.374	Tree	Spruce, blue	8	Fair	412
-93.09446883	44.86348443	557617.545	242833.482	Tree	Spruce, blue	8	Fair	413
-93.09442904	44.86353811	557627.809	242853.08	Tree	Aspen, quaking	10	Fair	414
-93.09441106	44.86354526	557632.463	242855.703	Tree	Spruce, blue	11	Fair	415
-93.09444543	44.86355725	557623.54	242860.051	Tree	Spruce, blue	10	Fair	416
-93.09441528	44.8635775	557631.337	242867.453	Tree	Aspen, quaking	12	Fair	417
-93.09444036	44.86360995	557624.802	242879.268	Tree	Aspen, quaking	10	Fair	418

-93.09443368	44.86362193	557626.521	242883.64	Tree	Spruce, blue	10	Fair	419	
-93.09443752	44.86366182	557625.487	242898.184	Tree	Spruce, blue	12	Fair	420	
-93.09448328	44.86363719	557613.644	242889.17	Tree	Aspen, quaking	10	Fair	421	
-93.09448626	44.86363175	557612.877	242887.182	Tree	Aspen, quaking	10	Fair	422	
-93.0944932	44.86363181	557611.077	242887.2	Tree	Aspen, quaking	7	Fair	423	
-93.09451352	44.86365733	557605.784	242896.492	Tree	Aspen, quaking	9	Fair	424	
-93.09447582	44.86365558	557615.56	242895.88	Tree	Aspen, quaking	10	Fair	425	
-93.0944603	44.86367055	557619.571	242901.351	Tree	Aspen, quaking	11	Fair	426	
-93.09441322	44.86368308	557631.767	242905.952	Tree	Aspen, quaking	15	Fair	427	
-93.09447532	44.86365433	557615.692	242895.425	Tree	Aspen, quaking	13	Fair	428	
-93.09448552	44.86367541	557613.026	242903.105	Tree	Aspen, quaking	12	Fair	429	
-93.0946001	44.86364372	557583.346	242891.467	Tree	Aspen, quaking	11	Fair	430	
-93.09465537	44.8636939	557568.964	242909.724	Tree	Aspen, quaking	11	Fair	431	
-93.09464771	44.86362701	557571.017	242885.341	Tree	Aspen, quaking	7	Fair	432	
-93.09470508	44.86360568	557556.161	242877.523	Tree	Aspen, quaking	8	Fair	433	
-93.09463868	44.8635984	557573.388	242874.918	Tree	Aspen, quaking	9	Fair	434	
-93.09458599	44.86360235	557587.047	242876.394	Tree	Aspen, quaking	6	Fair	435	
-93.09465299	44.86355907	557569.716	242860.565	Tree	Aspen, quaking	9	Fair	436	
-93.09465249	44.86352737	557569.876	242849.009	Tree	Aspen, quaking	6	Fair	437	
-93.09473729	44.86353738	557547.879	242852.599	Tree	Aspen, quaking	6	Fair	438	
-93.09479556	44.86346896	557532.835	242827.61	Tree	Elm, american	7	Fair	439	
-93.09467373	44.86340137	557564.495	242803.052	Tree	Cherry, black	9	Fair	440	
-93.09478604	44.86335349	557535.419	242785.516	Tree	Cherry, black	9	Fair	441	
-93.09471331	44.86330805	557554.325	242768.997	Tree	Cherry, black	10	Fair	442	
-93.09479052	44.86329151	557534.32	242762.915	Tree	Cedar, red	6	Fair	443	
-93.09480886	44.86316847	557529.685	242718.039	Tree	Cedar, red	7	Fair	444	
-93.0949078	44.86315709	557504.041	242713.818	Tree	Cherry, black	16	Fair	445	2x 8 8
-93.09484016	44.86301804	557521.719	242663.169	Tree	Aspen, quaking	8	Fair	446	
-93.0948046	44.86299923	557530.958	242656.335	Tree	Aspen, quaking	7	Fair	447	
-93.09481432	44.86297953	557528.458	242649.144	Tree	Aspen, quaking	8	Fair	448	
-93.09480836	44.86298725	557529.996	242651.965	Tree	Aspen, quaking	7	Fair	449	
-93.0948476	44.86293658	557519.87	242633.461	Tree	Aspen, quaking	8	Fair	450	
-93.09473001	44.86299054	557550.309	242653.218	Tree	Crabapple	7	Fair	451	
-93.09478119	44.86292056	557537.108	242627.667	Tree	Cherry, black	13	Fair	452	
-93.09484263	44.86289986	557521.196	242620.079	Tree	Aspen, quaking	9	Fair	453	
-93.09484141	44.86289049	557521.522	242616.663	Tree	Aspen, quaking	9	Fair	454	
-93.09487531	44.86286426	557512.758	242607.073	Tree	Aspen, quaking	9	Fair	455	
-93.09483175	44.86282686	557524.09	242593.469	Tree	Aspen, quaking	9	Fair	456	
-93.09481521	44.86280748	557528.398	242586.415	Tree	Oak, red	7	Fair	457	
-93.0947526	44.86269041	557544.751	242543.773	Tree	Cherry, black	18	Fair	458	
-93.094888	44.86277928	557509.551	242576.082	Tree	Aspen, quaking	11	Fair	459	
-93.09487356	44.86282346	557513.25	242592.201	Tree	Aspen, quaking	11	Fair	460	
-93.0948955	44.86280617	557507.579	242585.881	Tree	Aspen, quaking	11	Fair	461	
-93.09487848	44.86284887	557511.951	242601.46	Tree	Aspen, quaking	9	Fair	462	
-93.09489676	44.8628606	557507.198	242605.724	Tree	Aspen, quaking	7	Fair	463	
-93.09489999	44.8628988	557506.323	242619.651	Tree	Aspen, quaking	9	Fair	464	
-93.09490858	44.86293544	557504.06	242633.004	Tree	Elm, american	7	Fair	465	
-93.09492471	44.86293939	557499.874	242634.431	Tree	Cherry, black	15	Fair	466	
-93.09489045	44.86298989	557508.706	242652.868	Tree	Aspen, quaking	9	Fair	467	
-93.09493377	44.86302274	557497.441	242664.815	Tree	Aspen, quaking	8	Fair	468	
-93.09496477	44.86302649	557489.399	242666.162	Tree	Aspen, quaking	7	Fair	469	
-93.0950006	44.86300433	557480.13	242658.055	Tree	Cherry, black	32	Fair	470	3x 12 11 9
-93.09505161	44.86303856	557466.867	242670.501	Tree	Aspen, quaking	8	Fair	471	
-93.09504314	44.86298415	557469.119	242650.669	Tree	Aspen, quaking	7	Fair	472	
-93.095027	44.86296733	557473.321	242644.548	Tree	Aspen, quaking	7	Fair	473	
-93.09494133	44.86294348	557495.56	242635.912	Tree	Aspen, quaking	9	Fair	474	
-93.09496321	44.86292365	557489.905	242628.667	Tree	Cherry, black	6	Fair	475	
-93.09496716	44.86293064	557488.875	242631.211	Tree	Aspen, quaking	9	Fair	476	
-93.0949702	44.86291427	557488.101	242625.24	Tree	Aspen, quaking	9	Fair	477	
-93.09493493	44.862893	557497.268	242617.51	Tree	Aspen, quaking	8	Fair	478	
-93.09496414	44.86284739	557489.739	242600.861	Tree	Oak, red	9	Good	479	

-93.09499402	44.86278397	557482.055	242577.717	Tree	Oak, red	18	Good	480
-93.09501323	44.86286483	557476.992	242607.185	Tree	Oak, red	16	Good	481
-93.0950551	44.86290884	557466.092	242623.201	Tree	Aspen, quaking	9	Fair	482
-93.09505619	44.86290708	557465.81	242622.559	Tree	Oak, red	8	Fair	483
-93.09514095	44.86293855	557443.799	242633.975	Tree	Cherry, black	7	Fair	484
-93.09515235	44.86296184	557440.822	242642.456	Tree	Aspen, quaking	7	Fair	485
-93.09514641	44.86296884	557442.355	242645.015	Tree	Aspen, quaking	7	Fair	486
-93.09513995	44.86298983	557444.01	242652.67	Tree	Aspen, quaking	8	Fair	487
-93.09519986	44.86300031	557428.464	242656.452	Tree	Aspen, quaking	7	Fair	488
-93.09514565	44.86300734	557442.513	242659.052	Tree	Aspen, quaking	8	Fair	489
-93.09518906	44.86297359	557431.292	242646.716	Tree	Elm, american	7	Fair	490
-93.09521672	44.86295012	557424.142	242638.14	Tree	Oak, red	23	Good	491
-93.09533512	44.86300186	557393.388	242656.921	Tree	Cherry, black	10	Fair	492
-93.09539378	44.86305603	557378.122	242676.631	Tree	Oak, red	24	Fair	493
-93.09541052	44.86306849	557373.77	242681.162	Tree	Oak, red	20	Fair	494
-93.09544672	44.86304201	557364.409	242671.48	Tree	Oak, red	16	Good	495
-93.09548291	44.86313615	557354.931	242705.779	Tree	Oak, red	24	Good	496
-93.09548051	44.86317518	557355.516	242720.014	Tree	Oak, red	14	Fair	497
-93.09546208	44.86318956	557360.28	242725.268	Tree	Ironwood	6	Fair	498
-93.09551976	44.86321407	557345.299	242734.164	Tree	Aspen, quaking	8	Fair	499
-93.09558376	44.86322744	557328.69	242738.992	Tree	Aspen, quaking	12	Fair	500
-93.09567957	44.86315691	557303.914	242713.211	Tree	Aspen, quaking	9	Fair	501
-93.0956825	44.86313155	557303.182	242703.963	Tree	Oak, red	21	Good	502
-93.09571267	44.86308672	557295.402	242687.594	Tree	Oak, red	11	Good	503
-93.09566636	44.86305722	557307.44	242676.873	Tree	Oak, red	21	Good	504
-93.09558019	44.86309203	557329.75	242689.626	Tree	Aspen, quaking	6	Fair	505
-93.09550179	44.86312308	557350.049	242701	Tree	Crabapple	10	Fair	506
-93.09553195	44.86305906	557342.291	242677.635	Tree	Cherry, black	15	Fair	507
-93.09581929	44.86312407	557267.716	242701.137	Tree	Oak, red	20	Fair	508
-93.09587662	44.86316602	557252.811	242716.394	Tree	Oak, red	16	Fair	509
-93.09587082	44.86319065	557254.29	242725.379	Tree	Cherry, black	12	Fair	510
-93.09583536	44.86323292	557263.442	242740.816	Tree	Oak, red	15	Good	511
-93.09583228	44.86336406	557264.113	242788.633	Tree	Ironwood	8	Fair	512
-93.09580871	44.8633741	557270.214	242792.308	Tree	Cherry, black	11	Fair	513
-93.09588428	44.86340833	557250.583	242804.735	Tree	Oak, white	20	Fair	514
-93.09588016	44.86335017	557251.711	242783.532	Tree	Oak, white	20	Fair	515
-93.09582258	44.86346622	557266.525	242825.886	Tree	Ironwood	7	Fair	516
-93.09572157	44.86345535	557292.729	242821.995	Tree	Cottonwood, eastern	28	Fair	517
-93.09566609	44.86341112	557307.16	242805.908	Tree	Oak, red	12	Good	518
-93.09566169	44.86336974	557308.34	242790.824	Tree	Aspen, quaking	12	Fair	519
-93.0956792	44.86335779	557303.813	242786.453	Tree	Aspen, quaking	11	Fair	520
-93.09568638	44.86334904	557301.958	242783.258	Tree	Oak, red	8	Fair	521
-93.09572507	44.86332366	557291.953	242773.977	Tree	Birch, paper	7	Fair	522
-93.09568082	44.86335768	557303.392	242786.412	Tree	Aspen, quaking	9	Fair	523
-93.09564528	44.8633388	557312.627	242779.552	Tree	Aspen, quaking	10	Fair	524
-93.09566992	44.86337722	557306.2	242793.544	Tree	Oak, red	22	Good	525
-93.09556769	44.86334153	557332.743	242780.602	Tree	Aspen, quaking	11	Fair	526
-93.09552149	44.86336833	557344.697	242790.407	Tree	Aspen, quaking	7	Fair	527
-93.09552613	44.86339026	557343.473	242798.402	Tree	Elm, american	6	Fair	528
-93.09554739	44.86336624	557337.984	242789.628	Tree	Aspen, quaking	7	Fair	529
-93.09552997	44.86327612	557342.589	242756.782	Tree	Aspen, quaking	12	Fair	530
-93.0954638	44.86335173	557359.673	242784.394	Tree	Aspen, quaking	9	Fair	531
-93.09549751	44.86329472	557350.988	242763.586	Tree	Cherry, black	8	Good	532
-93.09547534	44.86332068	557356.711	242773.067	Tree	Cherry, black	8	Good	533
-93.09557053	44.86330446	557332.043	242767.086	Tree	Aspen, quaking	9	Fair	534
-93.09554976	44.86326996	557337.464	242754.521	Tree	Aspen, quaking	10	Fair	535
-93.09552144	44.8632815	557344.795	242758.747	Tree	Crabapple	10	Fair	536
-93.0953716	44.86326118	557383.67	242751.446	Tree	Aspen, quaking	7	Fair	537
-93.09534164	44.86322901	557391.472	242739.735	Tree	Aspen, quaking	9	Fair	538
-93.09536495	44.86328227	557385.374	242759.139	Tree	Aspen, quaking	6	Fair	539
-93.09537268	44.86327934	557383.373	242758.065	Tree	Aspen, quaking	9	Fair	540

-93.09537028	44.8632981	557383.976	242764.906	Tree	Aspen, quaking	6	Fair	541	
-93.09538413	44.86328485	557380.398	242760.065	Tree	Aspen, quaking	9	Fair	542	
-93.09536319	44.86331208	557385.802	242770.011	Tree	Aspen, quaking	9	Fair	543	
-93.09527098	44.86328575	557409.739	242760.476	Tree	Cherry, black	11	Fair	544	
-93.09524296	44.86330408	557416.986	242767.177	Tree	Cherry, black	11	Fair	545	
-93.09518686	44.86319195	557431.644	242726.333	Tree	Cherry, black	12	Fair	546	
-93.09530827	44.86322035	557400.133	242736.604	Tree	Cherry, black	11	Fair	547	
-93.09523061	44.86312125	557420.37	242700.525	Tree	Cedar, red	7	Fair	548	
-93.09516536	44.86316053	557437.251	242714.891	Tree	Aspen, quaking	7	Fair	549	
-93.09513164	44.86317152	557445.982	242718.923	Tree	Aspen, quaking	7	Fair	550	
-93.09506365	44.86311652	557463.668	242698.916	Tree	Aspen, quaking	8	Fair	551	
-93.09502126	44.86307427	557474.703	242683.543	Tree	Aspen, quaking	9	Fair	552	
-93.09502217	44.86306534	557474.476	242680.286	Tree	Aspen, quaking	8	Fair	553	
-93.09503951	44.86305646	557469.988	242677.037	Tree	Aspen, quaking	6	Fair	554	
-93.09500102	44.86305911	557479.965	242678.028	Tree	Aspen, quaking	7	Fair	555	
-93.09504612	44.86305368	557468.277	242676.018	Tree	Aspen, quaking	9	Fair	556	
-93.09508542	44.86304688	557458.093	242673.513	Tree	Aspen, quaking	8	Fair	557	
-93.09505803	44.86309645	557465.144	242691.605	Tree	Cherry, black	7	Fair	558	
-93.09511849	44.86309645	557449.468	242691.562	Tree	Aspen, quaking	7	Fair	559	
-93.09512731	44.86301719	557447.26	242662.656	Tree	Aspen, quaking	9	Fair	560	
-93.09496556	44.86306283	557489.157	242679.412	Tree	Aspen, quaking	8	Fair	561	
-93.09497379	44.86304323	557487.042	242672.257	Tree	Aspen, quaking	8	Fair	562	
-93.09495753	44.86303856	557491.265	242670.568	Tree	Aspen, quaking	6	Fair	563	
-93.09493347	44.86305441	557497.487	242676.365	Tree	Crabapple	8	Fair	564	
-93.09489068	44.86304439	557508.593	242672.74	Tree	Aspen, quaking	9	Fair	565	
-93.09486625	44.86304168	557514.931	242671.769	Tree	Elm, american	6	Fair	566	
-93.09490581	44.86305322	557504.661	242675.95	Tree	Aspen, quaking	6	Fair	567	
-93.09490502	44.8630779	557504.84	242684.948	Tree	Aspen, quaking	6	Fair	568	
-93.09498298	44.86311531	557484.587	242698.534	Tree	Aspen, quaking	6	Fair	569	
-93.09493221	44.86315872	557497.709	242714.395	Tree	Aspen, quaking	7	Fair	570	
-93.09495519	44.86316374	557491.745	242716.21	Tree	Aspen, quaking	6	Fair	571	
-93.0949785	44.86323521	557485.631	242742.255	Tree	Cherry, black	12	Fair	572	
-93.09514891	44.86323787	557441.439	242743.103	Tree	Cedar, red	9	Fair	573	
-93.0951036	44.86337343	557453.054	242792.561	Tree	Cedar, red	10	Fair	574	
-93.09490862	44.86344686	557503.54	242819.473	Tree	Cedar, red	6	Fair	575	
-93.0949556	44.8635446	557491.263	242855.075	Tree	Apple	19	Fair	576	2x 10 9
-93.09500063	44.8636048	557479.524	242876.994	Tree	Cherry, black	7	Fair	577	
-93.09486586	44.86360006	557514.476	242875.36	Tree	Cherry, black	13	Fair	578	
-93.09471585	44.86354199	557553.434	242854.295	Tree	Cherry, black	14	Fair	579	
-93.09482258	44.8637209	557525.578	242919.449	Tree	Crabapple	6	Fair	580	
-93.09489451	44.86371832	557506.929	242918.46	Tree	Cedar, red	6	Fair	581	
-93.09492011	44.86373998	557500.271	242926.339	Tree	Cedar, red	6	Fair	582	
-93.09493606	44.86374336	557496.131	242927.561	Tree	Cherry, black	8	Fair	583	
-93.09500746	44.86375717	557477.603	242932.544	Tree	Cedar, red	6	Fair	584	
-93.09505649	44.86379871	557464.847	242947.656	Tree	Cherry, black	15	Fair	585	
-93.09511743	44.86381832	557449.027	242954.764	Tree	Cedar, red	10	Fair	586	
-93.09526215	44.86380696	557411.512	242950.518	Tree	Cedar, red	11	Fair	587	
-93.09531904	44.86371234	557396.853	242915.979	Tree	Aspen, quaking	7	Fair	588	
-93.09530925	44.86368074	557399.423	242904.466	Tree	Aspen, quaking	7	Fair	589	
-93.09534258	44.86365644	557390.805	242895.58	Tree	Aspen, quaking	7	Fair	590	
-93.09523442	44.8636505	557418.857	242893.493	Tree	Aspen, quaking	7	Fair	591	
-93.09526778	44.86359905	557410.258	242874.708	Tree	Aspen, quaking	7	Fair	592	
-93.09528343	44.86360213	557406.196	242875.82	Tree	Aspen, quaking	6	Fair	593	
-93.09524644	44.86352927	557415.861	242849.282	Tree	Apple	28	Fair	594	
-93.09513266	44.8633887	557445.503	242798.107	Tree	Cedar, red	10	Fair	595	
-93.09503024	44.86337545	557472.074	242793.351	Tree	Cedar, red	6	Fair	596	
-93.09541736	44.86343198	557371.636	242813.687	Tree	Aspen, quaking	6	Fair	597	
-93.09540891	44.8634242	557373.834	242810.858	Tree	Aspen, quaking	9	Fair	598	
-93.09541211	44.86343794	557372.991	242815.864	Tree	Aspen, quaking	9	Fair	599	
-93.09542763	44.86342829	557368.975	242812.335	Tree	Aspen, quaking	6	Fair	600	
-93.09544131	44.86342872	557365.43	242812.481	Tree	Aspen, quaking	7	Fair	601	

-93.0954389	44.86338159	557366.101	242795.302	Tree	Aspen, quaking	7	Fair	602
-93.0954964	44.86338773	557351.184	242797.498	Tree	Aspen, quaking	10	Fair	603
-93.09550341	44.86341344	557349.341	242806.866	Tree	Aspen, quaking	8	Fair	604
-93.09551588	44.86342051	557346.101	242809.438	Tree	Aspen, quaking	7	Fair	605
-93.09548038	44.86337258	557355.353	242791.987	Tree	Aspen, quaking	9	Fair	606
-93.09557734	44.86334288	557330.239	242781.089	Tree	Aspen, quaking	8	Fair	607
-93.09549535	44.86335216	557351.491	242784.528	Tree	Aspen, quaking	7	Fair	608
-93.09554046	44.86344769	557339.699	242819.329	Tree	Aspen, quaking	9	Fair	609
-93.09556576	44.86346001	557333.127	242823.804	Tree	Aspen, quaking	9	Fair	610
-93.09549518	44.86349381	557351.396	242836.178	Tree	Aspen, quaking	7	Fair	611
-93.09554284	44.86351065	557339.02	242842.284	Tree	Aspen, quaking	7	Fair	612
-93.0955739	44.86350375	557330.973	242839.745	Tree	Aspen, quaking	9	Fair	613
-93.09551536	44.86343726	557346.218	242815.545	Tree	Aspen, quaking	10	Fair	614
-93.09554195	44.86342549	557339.335	242811.233	Tree	Aspen, quaking	9	Fair	615
-93.09560299	44.86343373	557323.498	242814.197	Tree	Aspen, quaking	10	Fair	616
-93.09558355	44.86352705	557328.449	242848.236	Tree	Aspen, quaking	11	Fair	617
-93.0955866	44.86349082	557327.693	242835.021	Tree	Ironwood	6	Fair	618
-93.09563648	44.86349279	557314.756	242835.705	Tree	Aspen, quaking	11	Fair	619
-93.09566157	44.863467	557308.277	242826.283	Tree	Aspen, quaking	10	Fair	620
-93.09565083	44.86346798	557311.06	242826.649	Tree	Aspen, quaking	9	Fair	621
-93.09566396	44.86352175	557307.602	242846.245	Tree	Aspen, quaking	8	Fair	622
-93.09569206	44.8635356	557300.301	242851.276	Tree	Elm, american	7	Fair	623
-93.09570195	44.86354344	557297.73	242854.129	Tree	Aspen, quaking	10	Fair	624
-93.09574798	44.86351078	557285.827	242842.186	Tree	Aspen, quaking	8	Fair	625
-93.0957937	44.86352787	557273.955	242848.387	Tree	Ironwood	9	Fair	626
-93.0959312	44.86348685	557238.338	242833.333	Tree	Ironwood	7	Fair	627
-93.0958955	44.86352894	557247.555	242848.705	Tree	Boxelder	8	Fair	628
-93.09505331	44.86480151	557464.677	243313.288	Tree	Oak, bur	20	Good	629
-93.09506891	44.86474584	557460.688	243292.981	Tree	Oak, bur	10	Good	630
-93.09504691	44.86470229	557466.435	243277.119	Tree	Oak, bur	12	Good	631
-93.09492361	44.86477719	557498.333	243304.515	Tree	Oak, bur	10	Good	632
-93.09482045	44.86471038	557525.148	243280.228	Tree	Oak, bur	16	Good	633
-93.09482699	44.86476488	557523.4	243300.095	Tree	Cherry, black	12	Good	634
-93.09473024	44.86481051	557548.441	243316.8	Tree	Pine, red	13	Good	635
-93.09485387	44.86479401	557516.399	243310.696	Tree	Cherry, black	20	Good	636
-93.09490942	44.86484403	557501.947	243328.896	Tree	Cherry, black	14	Good	637
-93.09496648	44.86485547	557487.138	243333.026	Tree	Oak, bur	21	Good	638
-93.09510049	44.86486973	557452.375	243338.13	Tree	Oak, bur	8	Good	639
-93.09494635	44.86490756	557492.307	243352.033	Tree	Oak, bur	14	Fair	640
-93.09492717	44.86493313	557497.256	243361.369	Tree	Oak, bur	16	Fair	641
-93.0948726	44.86492193	557511.415	243357.323	Tree	Oak, bur	7	Good	642
-93.09476993	44.86495352	557538.007	243368.914	Tree	Oak, bur	12	Good	643
-93.0947035	44.86501107	557555.176	243389.946	Tree	Pine, red	14	Good	644
-93.09480293	44.8650145	557529.39	243391.123	Tree	Pine, red	17	Good	645
-93.09484791	44.86503954	557517.702	243400.223	Tree	Pine, red	13	Good	646
-93.0948541	44.86508645	557516.05	243417.323	Tree	Elm, american	23	Good	647
-93.09474081	44.86508321	557545.428	243416.22	Tree	Cherry, black	15	Good	648
-93.09467687	44.86513295	557561.961	243434.402	Tree	Elm, american	21	Good	649
-93.09476844	44.86521576	557538.134	243464.53	Tree	Oak, bur	20	Good	650
-93.09491768	44.86524254	557499.409	243474.188	Tree	Buckeye, Ohio	8	Good	651
-93.09491844	44.86523002	557499.224	243469.623	Tree	Buckeye, Ohio	12	Fair	652
-93.09491589	44.86521958	557499.897	243465.819	Tree	Buckeye, Ohio	8	Good	653
-93.0948859	44.86512701	557507.765	243432.088	Tree	Oak, bur	28	Fair	654
-93.09502989	44.86506908	557470.485	243410.866	Tree	Oak, bur	21	Good	655
-93.09510944	44.86514657	557449.78	243439.062	Tree	Cottonwood, eastern	24	Good	656
-93.09506479	44.8652609	557461.245	243480.779	Tree	Cottonwood, eastern	45	Good	657
-93.09511777	44.86510874	557447.658	243425.262	Tree	Cherry, black	15	Good	658
-93.09508128	44.86503103	557457.198	243396.954	Tree	Oak, bur	16	Fair	659
-93.09515932	44.86515108	557436.843	243440.67	Tree	Cherry, black	6	Good	660
-93.09521169	44.86506869	557423.346	243410.595	Tree	Cherry, black	10	Fair	661
-93.09520545	44.86503325	557424.999	243397.678	Tree	Oak, bur	7	Fair	662

-93.09519505	44.86499875	557427.729	243385.104	Tree	Hackberry	18	Good	663
-93.095155	44.86493275	557438.18	243361.07	Tree	Oak, bur	14	Fair	664
-93.09517209	44.8649445	557433.736	243365.341	Tree	Oak, bur	11	Good	665
-93.09527623	44.86502393	557406.655	243394.229	Tree	Cherry, black	19	Fair	666
-93.0951731	44.86481241	557433.604	243317.18	Tree	Oak, bur	7	Good	667
-93.09530236	44.86486857	557400.033	243337.564	Tree	Cherry, black	9	Good	668
-93.09525936	44.8648893	557411.162	243345.152	Tree	Oak, bur	15	Fair	669
-93.09534386	44.86496288	557389.178	243371.922	Tree	Oak, white	12	Good	670
-93.09538741	44.86497864	557377.869	243377.638	Tree	Oak, white	11	Good	671
-93.0954072	44.86494012	557372.776	243363.579	Tree	Oak, bur	25	Good	672
-93.09543124	44.86481916	557366.662	243319.459	Tree	Oak, bur	21	Good	673
-93.09556818	44.86478675	557331.186	243307.546	Tree	Pine, white	20	Fair	674
-93.09556823	44.86483051	557331.131	243323.502	Tree	Pine, white	22	Good	675
-93.09558012	44.86483276	557328.044	243324.311	Tree	Pine, white	19	Good	676
-93.09561348	44.8648316	557319.395	243323.866	Tree	Pine, white	12	Good	677
-93.09562475	44.86477594	557316.527	243303.563	Tree	Pine, white	23	Good	678
-93.09561349	44.86489295	557319.332	243346.236	Tree	Elm, american	23	Fair	679
-93.09567834	44.86485289	557302.555	243331.581	Tree	Elm, american	9	Good	680
-93.09584872	44.86485524	557258.375	243332.32	Tree	Cherry, black	17	Good	681
-93.09585068	44.86488511	557257.837	243343.208	Tree	Elm, american	13	Good	682
-93.09586617	44.86493776	557253.767	243362.395	Tree	Elm, american	8	Fair	683
-93.09583569	44.86500413	557261.607	243386.617	Tree	Cherry, black	12	Fair	684
-93.09590206	44.86501384	557244.387	243390.107	Tree	Cherry, black	10	Fair	685
-93.09580153	44.86502333	557270.444	243393.642	Tree	Oak, red	26	Good	686
-93.09571548	44.8649258	557292.853	243358.141	Tree	Oak, white	14	Good	687
-93.09563632	44.86489977	557313.406	243348.706	Tree	Cherry, black	15	Fair	688
-93.09552992	44.86494488	557340.95	243365.226	Tree	Boxelder	8	Fair	689
-93.09565819	44.86498867	557307.647	243381.103	Tree	Oak, white	14	Good	690
-93.09560351	44.86502796	557321.787	243395.467	Tree	Boxelder	15	Fair	691
-93.09563658	44.86507908	557313.16	243414.083	Tree	Cherry, black	8	Good	692
-93.09578057	44.86513958	557275.763	243436.04	Tree	Oak, red	13	Good	693
-93.09582886	44.8651634	557263.219	243444.692	Tree	Oak, red	15	Good	694
-93.09580767	44.86517759	557268.698	243449.88	Tree	Oak, red	10	Good	695
-93.09588601	44.86514584	557248.418	243438.25	Tree	Cherry, black	16	Fair	696
-93.09581992	44.86520185	557265.499	243458.718	Tree	Cherry, black	10	Good	697
-93.09578295	44.86522058	557275.067	243465.573	Tree	Oak, bur	10	Fair	698
-93.09559784	44.86518755	557323.097	243453.66	Tree	Oak, red	23	Good	699
-93.09555892	44.86520148	557333.175	243458.767	Tree	Boxelder	10	Fair	700
-93.09582694	44.86355676	557265.306	242858.895	Tree	Ironwood	8	Good	701
-93.09586541	44.8636323	557255.257	242886.413	Tree	Hackberry	11	Good	702
-93.09590179	44.86369155	557245.763	242907.989	Tree	Oak, bur	20	Good	703
-93.09590779	44.86369754	557244.201	242910.168	Tree	Oak, white	12	Good	704
-93.0958875	44.86378779	557249.372	242943.089	Tree	Oak, white	28	Good	705
-93.09570329	44.86379186	557297.137	242944.704	Tree	Oak, red	8	Good	706
-93.09574951	44.86371996	557285.223	242918.456	Tree	Oak, red	14	Good	707
-93.09573668	44.86370857	557288.56	242914.312	Tree	Oak, red	10	Good	708
-93.09572128	44.86365352	557292.607	242894.252	Tree	Oak, red	18	Good	709
-93.09571614	44.86366346	557293.931	242897.878	Tree	Oak, red	15	Good	710
-93.09579334	44.8636783	557273.899	242903.234	Tree	Cherry, black	8	Good	711
-93.09576366	44.86367124	557281.602	242900.682	Tree	Oak, red	11	Good	712
-93.09577714	44.86364125	557278.137	242889.735	Tree	Birch, paper	8	Fair	713
-93.09577747	44.86359486	557278.097	242872.823	Tree	Oak, red	14	Good	714
-93.09572161	44.86361445	557292.562	242880.006	Tree	Birch, paper	7	Good	715
-93.0956941	44.86358073	557299.728	242867.728	Tree	Elm, american	7	Good	716
-93.09570317	44.86356136	557297.394	242860.659	Tree	Aspen, quaking	10	Fair	717
-93.09558175	44.86359746	557328.844	242873.906	Tree	Aspen, quaking	10	Fair	718
-93.09564672	44.86363736	557311.959	242888.411	Tree	Aspen, quaking	9	Fair	719
-93.09563315	44.86372024	557315.394	242918.638	Tree	Oak, red	13	Good	720
-93.09569041	44.86375962	557300.507	242932.957	Tree	Oak, red	17	Good	721
-93.09570713	44.86374303	557296.189	242926.895	Tree	Oak, red	14	Good	722
-93.09579059	44.86380898	557274.482	242950.882	Tree	Oak, red	11	Good	723

-93.09572535	44.86382212	557291.386	242955.72	Tree	Oak, red	11	Good	724
-93.09565806	44.86382419	557308.832	242956.522	Tree	Oak, red	13	Good	725
-93.09557536	44.86379462	557330.307	242945.8	Tree	Cherry, black	12	Good	726
-93.09560221	44.86376101	557323.376	242933.526	Tree	Oak, red	19	Good	727
-93.09553281	44.86377635	557341.358	242939.168	Tree	Elm, american	9	Good	728
-93.09552236	44.86379901	557344.045	242947.437	Tree	Aspen, quaking	7	Fair	729
-93.09550822	44.86363398	557347.876	242887.276	Tree	Elm, american	6	Good	730
-93.09544767	44.86365792	557363.551	242896.048	Tree	Aspen, quaking	6	Fair	731
-93.09548428	44.8635912	557354.126	242871.694	Tree	Aspen, quaking	9	Fair	732
-93.09547031	44.86357078	557357.767	242864.26	Tree	Aspen, quaking	7	Fair	733
-93.09546429	44.86357161	557359.327	242864.567	Tree	Aspen, quaking	9	Good	734
-93.0954669	44.86353615	557358.685	242851.633	Tree	Aspen, quaking	12	Fair	735
-93.09540331	44.86351284	557375.198	242843.182	Tree	Aspen, quaking	9	Good	736
-93.09539286	44.86351343	557377.907	242843.404	Tree	Aspen, quaking	8	Good	737
-93.09538258	44.86353259	557380.556	242850.397	Tree	Aspen, quaking	6	Good	738
-93.09529684	44.86351304	557402.807	242843.328	Tree	Cherry, black	9	Good	739
-93.09525411	44.86347561	557413.926	242829.712	Tree	Ironwood	8	Good	740
-93.09537267	44.86355232	557383.105	242857.598	Tree	Aspen, quaking	8	Fair	741
-93.09544559	44.86354884	557364.2	242856.275	Tree	Aspen, quaking	10	Fair	742
-93.09541941	44.86358593	557370.953	242869.819	Tree	Aspen, quaking	9	Fair	743
-93.09546396	44.8636092	557359.377	242878.27	Tree	Aspen, quaking	8	Fair	744
-93.09546672	44.86362596	557358.643	242884.382	Tree	Aspen, quaking	8	Fair	745
-93.09549525	44.86364546	557351.227	242891.47	Tree	Aspen, quaking	9	Fair	746
-93.09539788	44.86359546	557376.525	242873.309	Tree	Aspen, quaking	10	Fair	747
-93.09539675	44.86359703	557376.816	242873.883	Tree	Aspen, quaking	6	Fair	748
-93.09540987	44.8636071	557373.405	242877.544	Tree	Aspen, quaking	8	Fair	749
-93.09542535	44.8636803	557369.319	242904.224	Tree	Cherry, black	25	Good	750
-93.09544009	44.86367521	557365.502	242902.356	Tree	Cherry, black	10	Good	751
-93.095431	44.86374057	557367.792	242926.194	Tree	Aspen, quaking	9	Fair	752
-93.09542418	44.86378108	557369.522	242940.968	Tree	Aspen, quaking	8	Fair	753
-93.0954557	44.86377783	557361.352	242939.762	Tree	Aspen, quaking	8	Fair	754
-93.09545753	44.86379938	557360.857	242947.616	Tree	Aspen, quaking	8	Fair	755
-93.09535567	44.86376987	557387.299	242936.931	Tree	Aspen, quaking	6	Fair	756
-93.09538145	44.86379039	557380.592	242944.394	Tree	Aspen, quaking	7	Fair	757
-93.09537326	44.86379787	557382.708	242947.126	Tree	Aspen, quaking	8	Fair	758
-93.09541721	44.863804	557371.307	242949.33	Tree	Aspen, quaking	7	Fair	759
-93.09548654	44.86383346	557353.3	242960.023	Tree	Aspen, quaking	8	Fair	760
-93.0955921	44.86386672	557325.894	242972.076	Tree	Aspen, quaking	7	Fair	761
-93.0956967	44.86390038	557298.737	242984.275	Tree	Oak, red	19	Good	762
-93.09568812	44.86392483	557300.939	242993.196	Tree	Oak, red	14	Good	763
-93.09580116	44.86392733	557271.623	242994.028	Tree	Cherry, black	12	Fair	764
-93.09588013	44.86390313	557251.171	242985.147	Tree	Oak, white	19	Good	765
-93.09591414	44.86398427	557242.273	243014.709	Tree	Elm, american	16	Good	766
-93.09579116	44.86398891	557274.156	243016.488	Tree	Oak, red	9	Good	767
-93.09574373	44.86399652	557286.448	243019.296	Tree	Oak, red	12	Good	768
-93.0956606	44.86400697	557307.992	243023.163	Tree	Oak, red	11	Good	769
-93.0957771	44.86394741	557277.843	243001.367	Tree	Oak, red	9	Good	770
-93.0957068	44.8639722	557296.047	243010.456	Tree	Aspen, quaking	7	Fair	771
-93.09565839	44.86397101	557308.601	243010.052	Tree	Oak, red	8	Good	772
-93.09559676	44.8639867	557324.566	243015.817	Tree	Oak, red	13	Good	773
-93.09561322	44.86401864	557320.268	243027.452	Tree	Oak, red	12	Good	774
-93.09554132	44.86404482	557338.885	243037.05	Tree	Oak, red	12	Good	775
-93.0955077	44.86396319	557347.683	243007.307	Tree	Oak, red	15	Good	776
-93.0955429	44.86394486	557338.573	243000.602	Tree	Oak, red	17	Good	777
-93.09550635	44.86395301	557348.044	243003.599	Tree	Cherry, black	6	Good	778
-93.09562317	44.86386966	557317.835	242973.125	Tree	Oak, red	16	Good	779
-93.09550713	44.86388605	557347.907	242979.184	Tree	Cherry, black	10	Good	780
-93.09554394	44.86389451	557338.354	242982.241	Tree	Aspen, quaking	7	Fair	781
-93.09548703	44.86389417	557353.112	242982.159	Tree	Aspen, quaking	8	Fair	782
-93.09547533	44.86384467	557356.195	242964.117	Tree	Aspen, quaking	7	Fair	783
-93.09543847	44.86387613	557365.721	242975.614	Tree	Aspen, quaking	7	Fair	784

-93.09545353	44.86389314	557361.801	242981.808	Tree	Aspen, quaking	7	Fair	785
-93.09540286	44.86387393	557374.958	242974.839	Tree	Aspen, quaking	8	Fair	786
-93.09543048	44.86384583	557367.823	242964.573	Tree	Aspen, quaking	8	Fair	787
-93.09537725	44.86382465	557381.648	242956.889	Tree	Elm, american	6	Good	788
-93.09532	44.86384751	557396.471	242965.262	Tree	Cherry, black	17	Good	789
-93.09534265	44.86388752	557390.556	242979.835	Tree	Aspen, quaking	8	Fair	790
-93.09532659	44.86389571	557394.714	242982.832	Tree	Aspen, quaking	7	Fair	791
-93.09535438	44.86394426	557387.458	243000.515	Tree	Aspen, quaking	8	Fair	792
-93.09537521	44.86393703	557382.066	242997.862	Tree	Aspen, quaking	8	Fair	793
-93.0953781	44.86394404	557381.309	243000.418	Tree	Aspen, quaking	7	Fair	794
-93.09533774	44.86395985	557391.76	243006.212	Tree	Aspen, quaking	8	Fair	795
-93.09541898	44.86398303	557370.671	243014.606	Tree	Aspen, quaking	7	Fair	796
-93.0954199	44.86407678	557370.339	243048.788	Tree	Cedar, red	7	Good	797
-93.09530839	44.86395818	557399.371	243005.621	Tree	Aspen, quaking	6	Fair	798
-93.09523734	44.86397695	557417.777	243012.517	Tree	Aspen, quaking	6	Fair	799
-93.0952269	44.86391597	557420.545	242990.292	Tree	Cedar, red	9	Fair	800
-93.09510676	44.86387785	557451.733	242976.476	Tree	Cedar, red	8	Good	801
-93.09511131	44.86389664	557450.536	242983.325	Tree	Cedar, red	8	Good	802
-93.09509693	44.86392075	557454.241	242992.125	Tree	Cedar, red	8	Good	803
-93.09491139	44.86385109	557502.42	242966.858	Tree	Pine, white	13	Good	804
-93.09480514	44.86376315	557530.06	242934.869	Tree	Cherry, black	13	Fair	805
-93.09478822	44.86375995	557534.451	242933.712	Tree	Elm, american	7	Fair	806
-93.09474638	44.86375622	557545.303	242932.381	Tree	Aspen, quaking	7	Fair	807
-93.09466443	44.86377491	557566.536	242939.256	Tree	Cherry, black	8	Fair	808
-93.09467948	44.86389844	557562.51	242984.284	Tree	Cherry, black	16	Good	809
-93.09473358	44.86381326	557548.565	242953.19	Tree	Cherry, black	8	Good	810
-93.09487505	44.86392514	557511.77	242993.881	Tree	Cherry, black	9	Fair	811
-93.0949035	44.86397662	557504.344	243012.633	Tree	Cedar, red	10	Good	812
-93.09504211	44.86391687	557468.46	242990.748	Tree	Cedar, red	16	Fair	813
-93.09504532	44.86396884	557467.575	243009.697	Tree	Cherry, black	6	Fair	814
-93.09511652	44.86397111	557449.111	243010.474	Tree	Cedar, red	8	Good	815
-93.09512766	44.86397177	557446.223	243010.705	Tree	Cedar, red	10	Good	816
-93.09513109	44.86397241	557445.333	243010.936	Tree	Cedar, red	9	Good	817
-93.09515508	44.86399497	557439.088	243019.147	Tree	Cedar, red	9	Good	818
-93.09532342	44.8640455	557395.388	243037.45	Tree	Cedar, red	9	Fair	819
-93.09531868	44.86409064	557396.572	243053.911	Tree	Cherry, black	7	Fair	820
-93.09535119	44.864097	557388.135	243056.209	Tree	Cedar, red	8	Good	821
-93.09545768	44.8641005	557360.518	243057.409	Tree	Oak, red	27	Good	822
-93.09551742	44.86413512	557344.993	243069.991	Tree	Oak, red	8	Good	823
-93.09554678	44.86414667	557337.368	243074.18	Tree	Cherry, black	6	Good	824
-93.09561795	44.86409834	557318.962	243056.51	Tree	Oak, red	15	Good	825
-93.09568284	44.86405939	557302.174	243042.263	Tree	Oak, red	7	Good	826
-93.09578279	44.86405214	557276.265	243039.547	Tree	Oak, white	12	Good	827
-93.09582018	44.86406104	557266.561	243042.765	Tree	Oak, white	8	Good	828
-93.09580465	44.864101	557270.548	243057.346	Tree	Oak, red	12	Good	829
-93.09577971	44.86411543	557277.001	243062.624	Tree	Oak, red	6	Fair	830
-93.09577755	44.86411697	557277.558	243063.19	Tree	Oak, red	10	Good	831
-93.09577852	44.86416896	557277.255	243082.145	Tree	Oak, red	19	Good	832
-93.09593173	44.86416083	557237.537	243079.072	Tree	Oak, bur	18	Good	833
-93.09581647	44.86418932	557267.394	243089.539	Tree	Oak, red	17	Good	834
-93.09572	44.864124	557292.474	243065.794	Tree	Oak, red	11	Good	835
-93.09562544	44.86421748	557316.902	243099.941	Tree	Aspen, quaking	11	Fair	836
-93.09559082	44.86414629	557325.949	243074.011	Tree	Aspen, quaking	12	Fair	837
-93.09555825	44.86417677	557334.364	243085.148	Tree	Aspen, quaking	11	Fair	838
-93.09557551	44.86418306	557329.882	243087.428	Tree	Aspen, quaking	12	Fair	839
-93.09552854	44.86419698	557342.047	243092.536	Tree	Oak, red	14	Good	840
-93.09563575	44.86425224	557314.193	243112.609	Tree	Cherry, black	10	Good	841
-93.09555641	44.86426139	557334.757	243116.003	Tree	Aspen, quaking	8	Fair	842
-93.0955318	44.86424933	557341.151	243111.622	Tree	Oak, red	14	Good	843
-93.0955798	44.86432307	557328.632	243138.475	Tree	Cherry, black	10	Fair	844
-93.09556729	44.86433591	557331.863	243143.166	Tree	Elm, american	9	Good	845

-93.09551478	44.86431587	557345.498	243135.896	Tree	Aspen, quaking	9	Fair	846
-93.09546626	44.86429738	557358.099	243129.188	Tree	Elm, american	8	Fair	847
-93.09547152	44.86429114	557356.741	243126.909	Tree	Aspen, quaking	7	Fair	848
-93.09542921	44.86426233	557367.742	243116.432	Tree	Aspen, quaking	8	Fair	849
-93.09545559	44.86427137	557360.892	243119.712	Tree	Cherry, black	18	Fair	850
-93.09550845	44.86420409	557347.25	243095.143	Tree	Aspen, quaking	9	Fair	851
-93.09547504	44.8641859	557355.932	243088.533	Tree	Aspen, quaking	11	Fair	852
-93.09546965	44.8641972	557357.318	243092.659	Tree	Aspen, quaking	9	Fair	853
-93.09540241	44.86416312	557374.788	243080.278	Tree	Aspen, quaking	9	Fair	854
-93.09537033	44.86424128	557383.029	243108.8	Tree	Aspen, quaking	9	Fair	855
-93.09537292	44.86431434	557382.285	243135.435	Tree	Oak, red	14	Good	856
-93.09518964	44.86405929	557430.063	243042.573	Tree	Aspen, quaking	6	Fair	857
-93.09510088	44.86409253	557453.046	243054.755	Tree	Aspen, quaking	8	Fair	858
-93.09497018	44.86405426	557486.975	243040.892	Tree	Elm, american	6	Fair	859
-93.09491113	44.86402516	557502.315	243030.326	Tree	Aspen, quaking	7	Fair	860
-93.09489389	44.86409871	557506.713	243057.153	Tree	Aspen, quaking	7	Fair	861
-93.09492683	44.86412145	557498.15	243065.421	Tree	Aspen, quaking	6	Fair	862
-93.09493109	44.86411126	557497.054	243061.702	Tree	Aspen, quaking	7	Fair	863
-93.09494582	44.86409929	557493.247	243057.33	Tree	Aspen, quaking	8	Fair	864
-93.095029	44.86413458	557471.643	243070.135	Tree	Aspen, quaking	7	Fair	865
-93.09501823	44.86414177	557474.428	243072.767	Tree	Aspen, quaking	6	Fair	866
-93.09513287	44.86412328	557444.72	243065.943	Tree	Oak, red	7	Good	867
-93.09525204	44.86415013	557413.792	243075.649	Tree	Aspen, quaking	6	Fair	868
-93.09521118	44.86417078	557424.368	243083.207	Tree	Oak, red	11	Good	869
-93.09518463	44.86420463	557431.219	243095.568	Tree	Elm, american	8	Good	870
-93.09517589	44.86417932	557433.51	243086.345	Tree	Oak, red	8	Good	871
-93.09506542	44.86415487	557462.178	243077.51	Tree	Oak, red	16	Good	872
-93.09487673	44.86414494	557511.116	243074.023	Tree	Aspen, quaking	7	Fair	873
-93.09486159	44.86414057	557515.048	243072.44	Tree	Aspen, quaking	7	Fair	874
-93.09477195	44.8641636	557538.267	243080.898	Tree	Elm, american	10	Fair	875
-93.09478054	44.86422489	557535.979	243103.239	Tree	Aspen, quaking	6	Fair	876
-93.09473248	44.8641999	557548.468	243094.164	Tree	Aspen, quaking	6	Fair	877
-93.09479819	44.86424122	557531.387	243109.181	Tree	Aspen, quaking	8	Fair	878
-93.09481347	44.86419557	557527.471	243092.526	Tree	Aspen, quaking	7	Fair	879
-93.09480592	44.86419991	557529.424	243094.114	Tree	Aspen, quaking	6	Fair	880
-93.09479158	44.86417822	557533.163	243086.217	Tree	Aspen, quaking	7	Fair	881
-93.09484152	44.86414975	557520.243	243075.801	Tree	Aspen, quaking	7	Fair	882
-93.09486528	44.86416563	557514.065	243081.574	Tree	Aspen, quaking	6	Fair	883
-93.09487467	44.86420433	557511.592	243095.678	Tree	Aspen, quaking	6	Fair	884
-93.09495747	44.8642375	557490.088	243107.715	Tree	Oak, red	22	Good	885
-93.09495003	44.86419829	557492.057	243093.422	Tree	Elm, american	7	Good	886
-93.0951234	44.86421919	557447.082	243100.922	Tree	Aspen, quaking	6	Fair	887
-93.09514516	44.86424359	557441.414	243109.801	Tree	Aspen, quaking	10	Fair	888
-93.09521907	44.86420637	557422.287	243096.179	Tree	Aspen, quaking	9	Fair	889
-93.09523225	44.86420171	557418.873	243094.472	Tree	Aspen, quaking	7	Fair	890
-93.09526724	44.86421842	557409.783	243100.539	Tree	Aspen, quaking	7	Fair	891
-93.09528231	44.8642348	557405.858	243106.498	Tree	Aspen, quaking	9	Fair	892
-93.09526231	44.86425781	557411.023	243114.903	Tree	Aspen, quaking	8	Fair	893
-93.09526849	44.86428226	557409.397	243123.812	Tree	Elm, american	6	Good	894
-93.09525769	44.86428131	557412.199	243123.474	Tree	Elm, american	6	Good	895
-93.09520777	44.86426563	557425.157	243117.794	Tree	Aspen, quaking	8	Fair	896
-93.09522159	44.86431012	557421.53	243134.005	Tree	Aspen, quaking	6	Fair	897
-93.09514153	44.86429083	557442.308	243127.027	Tree	Cherry, black	10	Good	898
-93.09509385	44.86430479	557454.66	243132.15	Tree	Oak, red	6	Good	899
-93.09512157	44.86434288	557447.432	243146.02	Tree	Basswood, american	9	Fair	900
-93.09504625	44.86426393	557467.041	243117.289	Tree	Aspen, quaking	6	Fair	901
-93.09500205	44.86429059	557478.477	243127.04	Tree	Aspen, quaking	6	Fair	902
-93.09496647	44.86432207	557487.671	243138.543	Tree	Birch, paper	7	Good	903
-93.09488762	44.86432688	557508.112	243140.35	Tree	Aspen, quaking	6	Fair	904
-93.09491765	44.86430607	557500.347	243132.743	Tree	Aspen, quaking	7	Fair	905
-93.09483371	44.864313	557522.105	243135.329	Tree	Aspen, quaking	16	Fair	906

-93.09481103	44.86428496	557528.015	243125.122	Tree	Aspen, quaking	13	Fair	907
-93.09466536	44.86428823	557565.785	243126.418	Tree	Aspen, quaking	10	Fair	908
-93.09471704	44.86431404	557552.358	243135.788	Tree	Cherry, black	10	Good	909
-93.09478524	44.86432349	557534.662	243139.187	Tree	Elm, american	8	Good	910
-93.0949076	44.86440383	557502.855	243168.395	Tree	Aspen, quaking	9	Fair	911
-93.09496056	44.8643961	557489.129	243165.537	Tree	Aspen, quaking	11	Fair	912
-93.0950067	44.86439788	557477.164	243166.155	Tree	Oak, bur	6	Good	913
-93.09501156	44.86443197	557475.869	243178.582	Tree	Aspen, quaking	9	Fair	914
-93.09502064	44.86444722	557473.5	243184.136	Tree	Aspen, quaking	9	Fair	915
-93.09510102	44.86443856	557452.666	243180.92	Tree	Aspen, quaking	11	Fair	916
-93.0951601	44.86441365	557437.371	243171.797	Tree	Aspen, quaking	10	Fair	917
-93.09512619	44.8643178	557446.261	243136.872	Tree	Aspen, quaking	6	Fair	918
-93.09521237	44.86435393	557423.876	243149.986	Tree	Aspen, quaking	10	Fair	919
-93.09529125	44.86439439	557403.383	243164.682	Tree	Aspen, quaking	10	Fair	920
-93.09520978	44.86442928	557424.474	243177.46	Tree	Aspen, quaking	8	Fair	921
-93.09523485	44.86447479	557417.927	243194.037	Tree	Aspen, quaking	10	Fair	922
-93.09511693	44.86458396	557448.396	243233.925	Tree	Oak, red	7	Good	923
-93.0951202	44.86456026	557447.573	243225.279	Tree	Oak, bur	17	Fair	924
-93.09510099	44.86453768	557452.577	243217.062	Tree	Oak, bur	6	Fair	925
-93.09511018	44.86451668	557450.214	243209.397	Tree	Oak, bur	7	Fair	926
-93.09506109	44.86453092	557462.93	243214.625	Tree	Aspen, quaking	8	Fair	927
-93.09505156	44.86448281	557465.447	243197.088	Tree	Oak, bur	7	Good	928
-93.09501323	44.86455575	557475.314	243223.711	Tree	Cherry, black	9	Good	929
-93.0949286	44.86452443	557497.291	243212.351	Tree	Oak, bur	33	Good	930
-93.09483486	44.86455904	557521.562	243225.038	Tree	Oak, red	10	Good	931
-93.09468304	44.86451727	557560.972	243209.913	Tree	Cherry, black	9	Good	932
-93.09466033	44.86460752	557566.771	243242.837	Tree	Oak, red	23	Good	933
-93.09467301	44.86466585	557563.424	243264.094	Tree	Boxelder	8	Fair	934
-93.09469581	44.86474718	557557.431	243293.731	Tree	Oak, bur	8	Good	935
-93.09477909	44.86466536	557535.918	243263.841	Tree	Oak, red	15	Good	936
-93.0947678	44.86469078	557538.82	243273.116	Tree	Cherry, black	22	Good	937
-93.09483319	44.86468833	557521.867	243272.177	Tree	Oak, red	14	Good	938
-93.09482567	44.86462018	557523.884	243247.335	Tree	Oak, red	6	Good	939
-93.09491316	44.8646793	557501.141	243268.829	Tree	Oak, bur	19	Fair	940
-93.09503459	44.86464473	557469.687	243256.141	Tree	Oak, bur	14	Good	941
-93.09510368	44.86467491	557451.742	243267.096	Tree	Oak, bur	6	Good	942
-93.0951293	44.86462364	557445.149	243248.383	Tree	Oak, bur	6	Good	943
-93.09512243	44.8646551	557446.9	243259.858	Tree	Oak, bur	9	Good	944
-93.095142	44.86466778	557441.813	243264.467	Tree	Cherry, black	9	Fair	945
-93.09516657	44.86473803	557435.372	243290.064	Tree	Cherry, black	14	Good	946
-93.09522761	44.8646478	557419.635	243257.122	Tree	Oak, white	10	Good	947
-93.09537258	44.86456983	557382.12	243228.593	Tree	Oak, white	6	Good	948
-93.09539245	44.86450352	557377.034	243204.401	Tree	Elm, american	9	Fair	949
-93.09536151	44.86447702	557385.082	243194.759	Tree	Crabapple	6	Fair	950
-93.09537564	44.86440398	557381.49	243168.117	Tree	Aspen, quaking	7	Fair	951
-93.09539686	44.86435271	557376.038	243149.41	Tree	Aspen, quaking	8	Fair	952
-93.0954467	44.86435089	557363.117	243148.71	Tree	Aspen, quaking	8	Fair	953
-93.09542519	44.86436583	557368.68	243154.173	Tree	Aspen, quaking	8	Fair	954
-93.09543626	44.86437453	557365.8	243157.339	Tree	Aspen, quaking	7	Fair	955
-93.09542166	44.86443276	557369.529	243178.578	Tree	Aspen, quaking	8	Fair	956
-93.09539177	44.8644629	557377.249	243189.589	Tree	Aspen, quaking	9	Fair	957
-93.09540723	44.86444072	557373.263	243181.491	Tree	Aspen, quaking	8	Fair	958
-93.09547054	44.86444025	557356.847	243181.277	Tree	Elm, american	8	Fair	959
-93.09548011	44.86447621	557354.33	243194.383	Tree	Aspen, quaking	10	Fair	960
-93.09546154	44.86453992	557359.083	243217.623	Tree	Aspen, quaking	9	Fair	961
-93.09545734	44.86454036	557360.171	243217.788	Tree	Aspen, quaking	9	Fair	962
-93.09551878	44.86451084	557344.268	243206.98	Tree	Oak, red	8	Good	963
-93.09550837	44.86444678	557347.031	243183.629	Tree	Aspen, quaking	7	Fair	964
-93.0955279	44.86437781	557342.035	243158.471	Tree	Aspen, quaking	6	Fair	965
-93.09556021	44.86442929	557333.606	243177.218	Tree	Elm, american	10	Fair	966
-93.09564081	44.86444099	557312.695	243181.425	Tree	Oak, red	13	Good	967

-93.09556145	44.86450297	557333.213	243204.081	Tree	Aspen, quaking	8	Fair	968
-93.0955721	44.86448695	557330.466	243198.231	Tree	Oak, red	6	Good	969
-93.09562958	44.86448128	557315.567	243196.122	Tree	Aspen, quaking	13	Fair	970
-93.09569236	44.86449232	557299.279	243200.106	Tree	Elm, american	7	Fair	971
-93.09569821	44.86447836	557297.774	243195.013	Tree	Cottonwood, eastern	17	Fair	972
-93.09566544	44.8644771	557306.272	243194.574	Tree	Aspen, quaking	11	Fair	973
-93.09576242	44.86439719	557281.206	243165.371	Tree	Birch, paper	15	Fair	974
-93.09590815	44.86436438	557243.448	243153.304	Tree	Oak, bur	24	Fair	975
-93.09589613	44.86445188	557246.479	243185.218	Tree	Hackberry	10	Good	976
-93.09584135	44.86448552	557260.652	243197.523	Tree	Ash, white	7	Good	977
-93.09578098	44.86444844	557276.342	243184.044	Tree	Elm, american	10	Fair	978
-93.09577588	44.86445523	557277.657	243186.525	Tree	Elm, american	10	Fair	979
-93.09582453	44.86457732	557264.922	243231.006	Tree	Cherry, black	13	Fair	980
-93.09584723	44.86463614	557258.978	243252.436	Tree	Boxelder	9	Fair	981
-93.09574767	44.86465511	557284.775	243259.419	Tree	Oak, bur	26	Fair	982
-93.0959081	44.86466383	557243.166	243262.486	Tree	Oak, bur	21	Fair	983
-93.09589089	44.86474823	557247.545	243293.274	Tree	Oak, bur	16	Fair	984
-93.09589527	44.86471698	557246.439	243281.876	Tree	Hackberry	12	Fair	985
-93.09587512	44.86470451	557251.677	243277.343	Tree	Oak, red	18	Good	986
-93.0959185	44.86479754	557240.337	243311.234	Tree	Cherry, black	10	Fair	987
-93.09591113	44.86480817	557242.237	243315.115	Tree	Oak, bur	19	Fair	988
-93.09562426	44.86473526	557316.696	243288.732	Tree	Elm, american	14	Good	989
-93.09561496	44.86468464	557319.158	243270.28	Tree	Oak, bur	22	Fair	990
-93.09546466	44.86463118	557358.184	243250.897	Tree	Oak, white	30	Good	991
-93.0954487	44.86475183	557362.203	243294.895	Tree	Oak, bur	20	Fair	992
-93.09541417	44.86469994	557371.207	243276.003	Tree	Cherry, black	15	Good	993
-93.09538063	44.86469889	557379.905	243275.643	Tree	Cherry, black	8	Fair	994
-93.0953099	44.86469537	557398.25	243274.407	Tree	Fir, douglas	20	Good	995
-93.09530089	44.86472841	557400.552	243286.461	Tree	Oak, white	8	Good	996
-93.09526641	44.86474307	557409.48	243291.833	Tree	Cherry, black	12	Good	997
-93.0952037	44.86478314	557425.699	243306.486	Tree	Oak, bur	9	Good	998
-93.09515794	44.86478066	557437.569	243305.614	Tree	Oak, bur	8	Good	999
-93.09512234	44.86484246	557446.738	243328.172	Tree	Cherry, black	11	Good	1000
-93.09538463	44.86506609	557378.505	243409.523	Tree	Aspen, quaking	10	Fair	1001
-93.09535405	44.8651035	557386.396	243423.187	Tree	Oak, bur	9	Good	1002
-93.09539095	44.86509675	557376.834	243420.698	Tree	Cherry, black	6	Fair	1003
-93.09555065	44.86526577	557335.257	243482.211	Tree	Oak, red	20	Good	1004
-93.09555938	44.86529601	557332.963	243493.233	Tree	Oak, bur	19	Good	1005
-93.09563198	44.86528331	557314.152	243488.55	Tree	Oak, bur	11	Fair	1006
-93.09562612	44.86523894	557315.716	243472.378	Tree	Oak, bur	6	Fair	1007
-93.09565813	44.86525974	557307.393	243479.937	Tree	Oak, bur	7	Fair	1008
-93.09585934	44.86541599	557255.065	243536.767	Tree	Ironwood	8	Good	1009
-93.09578424	44.86535459	557274.6	243514.432	Tree	Cherry, black	15	Fair	1010
-93.09564672	44.86532134	557310.293	243502.406	Tree	Oak, bur	7	Fair	1011
-93.09565178	44.86533428	557308.965	243507.121	Tree	Oak, bur	7	Fair	1012
-93.09566897	44.86544573	557304.399	243547.744	Tree	Boxelder	6	Fair	1013
-93.09560672	44.86547038	557320.516	243556.776	Tree	Boxelder	7	Fair	1014
-93.0955037	44.86547341	557347.225	243557.954	Tree	Boxelder	8	Fair	1015
-93.09548071	44.86542642	557353.233	243540.837	Tree	Boxelder	9	Fair	1016
-93.09541273	44.86541504	557370.871	243536.734	Tree	Oak, red	27	Fair	1017
-93.0953608	44.86541148	557384.34	243535.475	Tree	Cherry, black	13	Good	1018
-93.09530575	44.8654654	557398.562	243555.174	Tree	Oak, red	16	Good	1019
-93.09539352	44.86531405	557375.954	243499.927	Tree	Aspen, quaking	9	Fair	1020
-93.09524222	44.86528313	557415.215	243488.759	Tree	Oak, bur	23	Fair	1021
-93.09526454	44.86518851	557409.522	243454.246	Tree	Oak, bur	24	Good	1022
-93.09511581	44.86534777	557447.93	243512.419	Tree	Oak, bur	28	Fair	1023
-93.0951785	44.86540536	557431.618	243533.369	Tree	Oak, bur	16	Fair	1024
-93.09504075	44.86544029	557467.3	243546.205	Tree	Elm, american	8	Good	1025
-93.09495103	44.86545224	557490.554	243550.626	Tree	Oak, red	23	Good	1026
-93.09502298	44.86532905	557472.02	243505.656	Tree	Oak, bur	17	Fair	1027
-93.09496489	44.86528911	557487.122	243491.137	Tree	Cherry, black	14	Good	1028

-93.09493871	44.8652521	557493.947	243477.66	Tree	Oak, red	10	Good	1029
-93.09491527	44.86531928	557499.958	243502.171	Tree	Oak, bur	16	Fair	1030
-93.0948773	44.86530513	557509.818	243497.038	Tree	Oak, bur	17	Fair	1031
-93.09470149	44.86530236	557555.408	243496.152	Tree	Oak, bur	30	Fair	1032
-93.09491559	44.86541817	557499.776	243538.228	Tree	Pine, white	25	Good	1033
-93.09480949	44.86544826	557527.259	243549.273	Tree	Oak, red	15	Good	1034
-93.09479625	44.86553192	557530.609	243579.787	Tree	Oak, red	10	Good	1035
-93.09483496	44.86549441	557520.607	243566.081	Tree	Oak, bur	7	Fair	1036
-93.09486926	44.86547581	557511.733	243559.275	Tree	Oak, red	11	Good	1037
-93.09469223	44.86559673	557557.516	243603.488	Tree	Pine, red	20	Good	1038
-93.09478469	44.86557594	557533.562	243595.842	Tree	Pine, red	15	Good	1039
-93.09485995	44.86559844	557514.025	243603.995	Tree	Pine, red	17	Good	1040
-93.09487436	44.86554545	557510.341	243584.665	Tree	Oak, red	14	Good	1041
-93.09488395	44.86556616	557507.833	243592.207	Tree	Oak, red	13	Good	1042
-93.09494425	44.86550136	557492.262	243568.538	Tree	Birch, paper	11	Good	1043
-93.09502513	44.86547111	557471.32	243557.451	Tree	Oak, red	9	Good	1044
-93.09506062	44.86545535	557462.134	243551.681	Tree	Oak, red	20	Good	1045
-93.09498782	44.86554278	557480.923	243583.612	Tree	Cherry, black	7	Good	1046
-93.09499686	44.86555833	557478.564	243589.274	Tree	Oak, red	12	Good	1047
-93.09487161	44.86556816	557511.033	243592.944	Tree	Oak, red	7	Fair	1048
-93.09505037	44.86558272	557464.664	243598.13	Tree	Oak, red	19	Good	1049
-93.09517604	44.86549636	557432.164	243566.552	Tree	Oak, red	27	Fair	1050
-93.09528582	44.86552367	557403.671	243576.43	Tree	Aspen, quaking	12	Fair	1051
-93.09534946	44.86553696	557387.158	243581.233	Tree	Oak, bur	15	Fair	1052
-93.09536398	44.86552991	557383.4	243578.65	Tree	Boxelder	6	Fair	1053
-93.09537937	44.86544153	557379.496	243546.418	Tree	Cherry, black	6	Fair	1054
-93.09544846	44.86555574	557361.469	243588.01	Tree	Aspen, quaking	8	Fair	1055
-93.09551735	44.86552037	557343.641	243575.064	Tree	Oak, red	12	Good	1056
-93.09554117	44.86552792	557337.456	243577.801	Tree	Cherry, black	16	Good	1057
-93.09562577	44.86546141	557315.584	243553.491	Tree	Oak, red	14	Good	1058
-93.09557771	44.86552709	557327.983	243577.472	Tree	Oak, bur	6	Good	1059
-93.09563293	44.86554343	557313.648	243583.394	Tree	Cherry, black	12	Good	1060
-93.09561853	44.86557634	557317.35	243595.401	Tree	Aspen, quaking	11	Fair	1061
-93.09566941	44.86552827	557304.204	243577.838	Tree	Oak, bur	12	Fair	1062
-93.09569576	44.86552037	557297.379	243574.941	Tree	Oak, bur	14	Fair	1063
-93.09572085	44.86557585	557290.818	243595.153	Tree	Cherry, black	6	Fair	1064
-93.09578101	44.86558837	557275.206	243599.674	Tree	Cherry, black	10	Good	1065
-93.09588228	44.86555339	557248.981	243586.848	Tree	Boxelder	8	Fair	1066
-93.09582732	44.86550893	557263.278	243570.677	Tree	Boxelder	7	Fair	1067

PHASE 1 TREE REPLACEMENT

SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY
TREES						
	AB	ABIES BALSAMEA	BALSAM FIR	6` HT.	B&B	5
	PS	PINUS STROBUS	WHITE PINE	6` HT.	B&B	6
	TC	TSUGA CANADENSIS	EASTERN HEMLOCK	6` HT.	B&B	10

NOTES:

1. **PER CONVERSATIONS BETWEEN CLIENT AND CITY FORESTER AND CITY PLANNER:**
   - 1.1. TREE REPLACEMENTS TO BE INSTALLED IN PHASES OVER TIME NOT TO EXCEED FIVE (5) YEARS FROM INITIAL PROJECT APPROVAL. ANY TREES NOT REPLACED WITHIN SUCH FIVE (5) YEAR PERIOD WILL BE SUBJECT TO $200 PER TREE REPLACEMENT FEE SET FORTH IN SECTION 202.03 OF THE CITY CODE.
   - 1.2. THIS TREE REPLACEMENT PLAN REPRESENTS THE FIRST PHASE OF TREE REPLACEMENTS (21 TOTAL).
   - 1.3. ALL FUTURE TREE REPLACEMENT PLAN PHASES SHALL BE SUBMITTED TO AND APPROVED BY THE CITY FORESTER AND SUBJECT TO APPLICABLE REVIEW FEES.
2. **ADDITIONAL AGREEMENTS INCLUDE:**
   - 2.1. 1.5" CALIPER BARE ROOT HARDWOOD TREES WILL BE ACCEPTABLE FOR 1:1 REPLACEMENT CREDIT BASED ON THE CITY FORESTER'S ASSESSMENT OF EXISTING SITE CONDITIONS.
   - 2.2. A 2:1 REPLACEMENT CREDIT WILL BE GRANTED FOR OVERSIZING TREES (I.E. A 2.5" CALIPER HARDWOOD OR AN 8' EVERGREEN) TO BE CONSIDERED IN LATER PHASES OF TREE REPLACEMENT

01 SITE REFERENCE PLAN
Scale:1:600

HAGEN LOT SPLIT SHARED DRIVEWAY

60TH STREET
SUNFISH LAKE, MN 55077

pebl.

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www.pebl.design

STAMP

FOR CONSTRUCTION

I hereby certify that this plan, specification, or report 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.

SIGNATURE:
PRINTED NAME: JONATHAN BLASEG
LICENSE NUMBER: 56714

REVISIONS

NO.	DATE	DESCRIPTION
1	04.09.2026	CITY SUBMITTAL

OVERVIEW

ISSUANCE: SCHEMATIC DESIGN
PROJECT NAME: RESIDENCE
PROJECT NUMBER: 2222
DATE: 04.18.24
DRAWN BY: JB
CHECKED BY: JB

SHEET NAME

TREE REPLACEMENT PLAN

SHEET NUMBER

L100