

Valley County Planning and Zoning

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STAFF REPORT: C.U.P. 23-05 Takkinen Estates - Preliminary and Final Plat
HEARING DATE: March 16, 2023
TO: Planning and Zoning Commission
STAFF: Cynda Herrick, AICP, CFM
Planning and Zoning Director
APPLICANT /
PROPERTY OWNER: C2J Trust, c/o Jenna Alessi
3603 S Carie Ave, Boise, ID 83709
SURVEYOR: Ken Cook, Timberline Surveying
847 Park Center Way STE 3, Nampa, ID 83651
LOCATION: 480 Withers Lane
Parcel RP16N04E191805
Located in the E ½ Section 19, T.16N, R.4E,
Boise Meridian, Valley County, Idaho
SIZE: 81 acres
REQUEST: 2-lot Single-Family Residential Subdivision
EXISTING LAND USE: Agriculture (Grazing and Timber)

The C2J Trust is requesting a conditional use permit for a 2-lot single-family residential subdivision.

Proposed lot sizes are 31 acres to 49 acres. Individual septic systems and individual wells would be used. The lots would be accessed from Withers Lane, a public road. A shared driveway is proposed.

A Wildland Urban Interface Fire Protection Plan has been submitted.

The property does have water rights available.

FINDINGS:

1. The application was submitted on February 1, 2023.
2. Legal notice was posted in the *Star News* on February 23, 2023, and March 2, 2023. Potentially affected agencies were notified on February 6, 2023. Property owners within 300 feet of the property line were notified by fact sheet sent on February 16, 2023. The notice and application were posted online at www.co.valley.id.us on February 6, 2023. The site was posted on March 5, 2023.

3. Agency comment received:

Central District Health states that an application, test holes, ground water monitoring, and engineering is required. (Feb. 14, 2023)

Jess Ellis, Donnelly Fire Marshal, responded with requirements for driveways, addressing, and security gates. Driveways shall be inspected and approved by Donnelly Rural Fire Protection District personnel prior to certificate of occupancy being issued. (Feb. 27, 2023)

Kathy Riffie, Valley County Cadastral Technician I, found a few scrivener's errors that should be corrected prior to recording the subdivision plat. (Feb. 24, 2023)

Wendy Howell, Idaho Transportation Department, has no comments as the site does not abut the State Highway system. (Feb. 17, 2023)

4. Public comment received: None

5. Physical characteristics of the site: Sloped topography ranging from 0-12%. Grassland and sagebrush with two aspen groves and approximately 1-acre of Ponderosa Pine. The aerial view shows wet areas and drainage within the site.

6. The surrounding land use and zoning includes:

North: Single-Family Residential and Agricultural (Grazing)

South: Single-Family Residential and Agricultural (Grazing)

East: Single-Family Residential Subdivision (Simpco Estates) and Agricultural (Grazing and Timber)

West: Agricultural (Grazing)

7. Valley County Code (Title 9): In Table 9-3-1, this proposal is categorized under:

- 2. Residential Uses (c) Subdivision for single-family subdivision.

Review of Title 9 - Chapter 5 Conditional Uses and Title 10 should be done.

TITLE 9 LAND USE AND DEVELOPMENT

9-5-3: STANDARDS:

B. Setbacks:

1. Structures Exceeding Three Feet In Height: The setbacks for all structures exceeding three feet (3') in height are specified herein under the site and development standards for the specific use.
3. High Water Line: All residential buildings shall be set back at least thirty feet (30') from high water lines. All other buildings shall be set back at least one hundred feet (100') from high water lines.
6. Measurement: All building setbacks shall be measured horizontally, on a perpendicular to the property line, to the nearest corner or face of the building including eaves, projections, or overhangs.

9-5A-1: GRADING:

- A. Permit Required: Grading to prepare a site for a conditional use or grading, vegetation removal, construction or other activity that has any impact on the subject land or on adjoining properties is a conditional use. A conditional use permit is required prior to the start of such an activity.
- D. Wetlands: Grading or disturbance of wetlands is subject to approval of the U.S. corps of engineers under the federal clean water act. The federal permit, if required, shall be part of the conditional use permit.
- E. Site Grading Plan:
 - 1. The conditional use permit application shall include a site grading plan, or preliminary site grading plan for subdivisions, clearly showing the existing site topography and the proposed final grades with elevations or contour lines and specifications for materials and their placement as necessary to complete the work. The plan shall demonstrate compliance with best management practices for surface water management for permanent management and the methods that will be used during construction to control or prevent the erosion, mass movement, siltation, sedimentation, and blowing of dirt and debris caused by grading, excavation, open cuts, side slopes, and other site preparation and development. The plan shall be subject to review of the county engineer and the soil conservation district. The information received from the county engineer, the soil conservation district, and other agencies regarding the site grading plan shall be considered by the planning and zoning commission and/or the board of county commissioners in preparing the conditions of approval or reasons for denial of the applications.
 - 2. For subdivisions, preliminary site grading plans and stormwater management plans must be presented for review and approval by the commission as part of the conditional use permit application. However, prior to construction of the infrastructure, excavation, or recordation of the final plat, the final plans must be approved by the county engineer.
- F. Land Surfaces Not Used For Roads, Buildings And Parking: All land surfaces not used for roads, buildings and parking shall be covered either by natural vegetation, other natural and undisturbed open space, or landscaping.
- G. Stormwater Management Plan: Prior to issuance of building permits, the administrator must receive a certification from the developer's engineer verifying that the stormwater management plan has been implemented according to approved plans.

9-5A-2: ROADS AND DRIVEWAYS:

- A. Roads For Public Dedication And Maintenance: Roads for public dedication and maintenance shall be designed and constructed in accordance with title 10 of this code and in accordance with "Construction Specifications And Standards For Roads And Streets In Valley County, Idaho".
- B. Access Roads Or Driveways: Residential developments, civic or community service uses, and commercial uses shall have at least two (2) access roads or driveways to a public street wherever practicable.
- C. Private Roads: Private roads shall meet the provisions of the Valley County subdivision ordinance

9-5A-5: FENCING:

- F. Conditional Use Adjoins Agricultural Uses: Where a conditional use adjoins an agricultural use where animal grazing is known to occur for more than thirty (30) consecutive days per year, the permittee shall cause a fence to be constructed so as to prevent the animals from entering the use area. The permittee shall provide for the maintenance of said fence through covenants, association documents, agreement(s) with the adjoining owner(s), or other form acceptable to the commission prior to approval of the permit so that there is reasonable assurance that the fence will be maintained in functional condition so long as the conflicting uses continue.

9-5A-6: UTILITIES:

- A. Direct Access Required: All lots or parcels, for or within conditional uses, shall be provided, or shall have direct access to, utility services including telephone, electrical power, water supply, and sewage disposal.

- B. **Central Water Supply And Sewage Systems:** Central water supply and sewage systems serving three (3) or more separate users shall meet the requirements of design, operation, and maintenance for central water and sewage systems in the subdivision ordinance.
- C. **Probability Of Water Supply:** Probability of water supply, as referred to in subsection A of this section, can be shown by well logs in the general area or by a determination of a professional engineer, hydrologist, or soil scientist.
- D. **Individual Septic Systems:** If individual septic systems are proposed to show compliance with sewage disposal requirements in subsection A of this section, sanitary restrictions must be lifted on every lot prior to recordation unless it is designated as a lot where a building permit will never be issued for a residential unit, such as pasture lot, common area, open space, or a no build lot.
- E. **Easements Or Rights Of Way:** Easements or rights of way shall be set aside or dedicated for the construction and maintenance of utilities in accordance with the provisions of the subdivision ordinance.
- F. **Utility Plan:** A utility plan showing the schedule of construction or installation of proposed utilities shall be a part of the conditional use permit.

9-5B-4: EMISSIONS:

- B. **Wood Burning Devices:** Wood burning devices shall be limited to one per site. Wood burning devices shall be certified for low emissions in accordance with EPA standards.

9-5B-7: FIRE PROTECTION:

Provisions must be made to implement prefire activities that may help improve the survivability of people and homes in areas prone to wildfire. Activities may include vegetation management around the home, use of fire resistant building materials, appropriate subdivision design, removal of fuel, providing a water source, and other measures. Recommendations of the applicable fire district will be considered.

9-5C-2: MINIMUM LOT AREA:

- B. **New Subdivisions:**
 - 1. **Single-Family Residences:** New subdivisions for single-family residences shall provide the following minimum lot sizes:
 - a. One acre where individual sewage disposal systems and individual wells are proposed.
- C. **Frontage On Public Or Private Road:** Frontage on a public or private road shall not be less than thirty feet (30') for each lot or parcel. The lot width at the front building setback line shall not be less than ninety feet (90').

9-5C-6: DENSITY:

- A. The density of any residential development or use requiring a conditional use permit shall not exceed two and one-half (2.5) dwelling units per acre, except for planned unit developments or long-term rentals. Long-term rental density can be determined by the Planning and Zoning Commission in regards to compatibility with surrounding land uses and will require a deed restriction.
- B. Density shall be computed by dividing the total number of dwelling units proposed by the total acreage of land within the boundaries of the development. The area of existing road rights of way on the perimeter of the development and public lands may not be included in the density computation.

TITLE 10 SUBDIVISION REGULATIONS

10-4-6: EASEMENTS:

- A. **Utility Easements:** There shall be provided easements for the utilities upon and across the front of lots of a width of a minimum of twelve feet (12') (except for entrance service) or as and where considered necessary by the commission.
- B. **Stormwater Easement Or Drainage Right Of Way:** Where a subdivision is crossed or bounded by a watercourse, drainageway, channel, irrigation ditch, or stream there shall be provided a stormwater easement or drainage right of way conforming substantially with the lines of such watercourse, and such further width or construction, or both, as will be adequate for the purpose.

- C. Drainage: Provisions for adequate drainage shall be made by the subdivider as prescribed by the county engineer in accordance with the manual containing the drainage standards and specifications as adopted by Valley County.
- D. Existing Easements: All existing easements must be shown on the subdivision plat.

10-5-1: STREET AND UTILITY IMPROVEMENTS:

- A. Installation Required: Public street, utility, conduit for fiber optics, and other off site improvements, as hereinafter listed, shall be installed in each new subdivision at the subdivider's expense or at the expense of the party agreeing to install the same, in accordance with the minimum standards set forth below prior to the acceptance of any final plat for recordation, except as provided in subsections C and D of this section. A right of way permit will be required (see section 5-7-2 of this code).
- D. Declaration Of Installation Of Utilities: A declaration of installation of utilities shall also be recorded. The declaration shall describe the utilities that will be placed by the subdivider, verify when the utilities will be installed and state that Valley County will have no responsibility for the installation or maintenance of utilities. If all utilities are not installed prior to recordation of the plat, a note shall be placed on the face of the plat that states: "Utilities have not been installed at the time of recordation of this plat".
- E. Connection To Public Road Required: The county shall not accept any new subdivision unless the streets within the subdivision, whether public or private, are connected directly to an existing public road. In the event the subdivision is not connected to a public road with an approved minimum standard as determined by the Valley County Road Director, then the subdivider shall construct, or guarantee the construction as provided by this title, a connector road to county standards, either private roads or public roads, which shall provide access to the subdivision. All subdivisions shall be required to be accessed by a road system that meets the minimum standard as determined by the Valley County Road Director. When access has historically been provided through the subdivision to other ownerships, the subdivider shall provide for continuation of the public right of way.

CHAPTER 7 WILDLAND URBAN INTERFACE FIRE PROTECTION PLAN

10-7-4: SUBMISSION REQUIREMENTS:

- A. General: All developers of proposed subdivisions shall provide a wildland urban interface fire protection plan (the plan) for review and approval by the planning and zoning commission with their preliminary plat application or planned unit development submittal.
- B. Content: The plan shall be based upon a site specific wildfire risk assessment that includes consideration of location, topography, aspect, flammable vegetation, climatic conditions and fire history. The plan shall address water supply, access, fire protection systems and equipment, defensible space, and vegetation management.
 - 1. Preparation: The plan shall be developed by a "professional" (see definition in section 10-7-2 of this chapter). Professionals can be prequalified by the commission and a list will be maintained at the Valley County planning and zoning office.
 - 2. Format: The plan shall consist of two (2) sections:
 - a. Wildfire Risk Assessment: This portion of the plan includes a map and narrative describing the current status of the land to be developed. As a minimum, the following must be included:
 - (1) Topographic map.
 - (2) Site description including discussion of slope(s), aspect(s), and significant topographic features.
 - (3) Narrative describing existing vegetation and fuel hazards, distribution and continuity.
 - (4) Fire history, including historical occurrence, causes, typical wind and climatic conditions which influence fire behavior.
 - (5) Existing roads and bridges, including a description of widths, grade percentages and weight limits.
 - (6) Location of existing structures and an estimate of the proposed density, types and sizes of planned structures.
 - (7) Infrastructure that may affect wildland fire risk (i.e., existing power lines, railroad lines, propane tanks, etc.).

- (8) Description of existing features that may assist in controlling a wildfire (i.e., fuel breaks, water sources, etc.).
 - (9) Current structural and wildland fire jurisdictional agencies.
 - (10) Effect of proposed development on current wildland fire risk within the development area and to adjacent landowners.
 - b. Wildfire Risk Mitigation: This portion of the plan includes a map(s) and narrative detailing planned wildfire hazard mitigation actions to be taken by the developer prior to individual lot development to mitigate risks to life and property from wildland fire. Specific items to be addressed include:
 - (1) Access - planned ingress and egress routes.
 - (2) Water supply for structural and wildland fire response.
 - (3) Estimated response time and distances for jurisdictional fire agencies.
 - (4) Planned internal fire protection systems and/or equipment, including buried tanks, wells, hydrants, drylines, etc., along with protective measures for systems and/or equipment.
 - (5) Proposed infrastructure, including bridge standards, road widths, grades, signage, aboveground/belowground power lines, etc.
 - (6) Safety zone locations.
 - (7) Planned live and dead fuel treatment actions, including modification through thinning, pruning, piling, chipping, and fuel break construction; and removal through commercial harvest, chipping and hauling or prescribed burning.
 - (8) Long term maintenance schedule to sustain fuel treatment effectiveness.
 - (9) Analysis of the overall change in wildland fire risk within the development and to adjacent landowners once the planned mitigation actions are implemented.
 3. Submittal, Implementation And Verification:
 - a. The plan shall be submitted with the preliminary plat application to the Valley County planning and zoning office.
 - b. Planned mitigation work must be completed or financially guaranteed prior to the recordation of the final plat. A schedule for the phased completion of mitigation work may be approved in conjunction with recordation of final plats.
 - c. Verification of completed implementation of mitigation actions will be the responsibility of the jurisdictional structural fire district. Where no structural fire district exists, the Valley County sheriff shall appoint a county representative.
 4. Exceptions: Proposed administrative plats of less than five (5) lots and proposed subdivisions with lands less than twenty percent (20%) "forested" (see definition in section 10-7-2 of this chapter) are exempt from the professional requirement. For proposed subdivisions fitting these descriptions, the developer may complete the plan (see the fire protection form). The plan for an administrative plat can be approved by the administrator upon receiving an approval letter from the fire district.
 5. Cost: The cost and implementation of the plan preparation shall be the responsibility of the applicant.
 6. Plan Retention: The approved plan shall be retained at the Valley County planning and zoning office and the jurisdictional fire district or designated agency where no fire district exists.
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SUMMARY:

Staff's compatibility rating is a +23.

The Planning and Zoning Commission should do their own compatibility rating prior to the meeting (form with directions attached).

STAFF COMMENTS / QUESTIONS:

1. This site is within the Donnelly Fire District. It is not within an irrigation district nor a herd district.
2. Right-of-way will need to be dedicated to Valley County along Withers Lane Fork Road.

3. Valley County Code requires each subdivision lot to have at least 30-ft frontage on a public or private road. Lot 2 currently has no frontage. Staff recommends a flag lot going down the center of the shared driveway.
4. The application states "No CCRs".
5. Incorrect spellings on plat are as follows:
 - a. Building Setback note has incorrect spelling of Regulations
 - b. Utility Note 3 – Installation, not Instillation
 - c. Utility Note 4 – Installation, not Instillation; Responsibility, not Irresponsibility
6. How will water rights be transferred?

ATTACHMENTS:

- Conditions of Approval
- Blank Compatibility Evaluation and Instructions
- Compatibility Evaluation by Staff
- Vicinity Map
- Aerial Map
- Wetland Map
- Assessor Plat – T.16N R.4E Section 19
- Record of Survey 12-51
- Plat
- Pictures Taken March 5, 2023
- Responses
- Septic System Handouts

Conditions of Approval

1. The application, the staff report, and the provisions of the Land Use and Development Ordinance are all made a part of this permit as if written in full herein. Any violation of any portion of the permit will be subject to enforcement and penalties in accordance with Title 9-2-5; and, may include revocation or suspension of the conditional use permit.
2. Any change in the nature or scope of land use activities shall require an additional Conditional Use Permit.
3. The issuance of this permit and these conditions will not relieve the applicant from complying with applicable County, State, or Federal laws or regulations or be construed as permission to operate in violation of any statute or regulations. Violation of these laws, regulations or rules may be grounds for revocation of the Conditional Use Permit or grounds for suspension of the Conditional Use Permit.
4. The final plat shall be recorded within two years, or this permit will be null and void.
5. The plat must be modified so both lots have at least 30-ft frontage on Withers Lane.
6. A Declaration of Installation of Utilities shall be recorded and noted on the face of the plat. Note on face of plat should state "Utilities are the responsibility of the property owner at the time of construction."

7. Sanitary restrictions must be removed prior to recordation of the final plat.
8. A letter of approval is required from Donnelly Fire District prior to recording the final plat.
9. All easements shall be shown on the final plat.
10. A Shared Driveway Maintenance Agreement must be recorded with the final plat.
11. The Wildland Urban Interface Fire Protection Plan must be recorded with the final plat.
12. Shall place addressing numbers at the residence(s) and at the driveway entrance if the house numbers are not visible from the road.
13. Must have a fencing plan with neighboring properties if they run livestock for over 30 days per year.
14. Prior to construction of any on-site improvements, the applicant shall meet with the Valley County Road Director and/or Board of County Commissioners to discuss off-site road improvements. If an agreement cannot be reached the application shall be set for another public hearing with the Valley County Planning and Zoning Commission to determine if the application can be approved without improvements and still meet their mandates concerning public health, safety, and welfare matters. The discussion will be concerning current road conditions and potential mitigation for impacts caused by the development.
15. The following notes shall be placed in the notes on the face of the final plat:
 - "The Valley County Board of Commissioners have the sole discretion to set the level of service for any public road; the level of service can be changed."
 - "All lighting must comply with the Valley County Lighting Ordinance."
 - "Only one wood burning device is allowed on each lot."
 - "Surrounding land uses are subject to change."

END OF STAFF REPORT

Compatibility Questions and Evaluation

Matrix Line # / Use: _____

Prepared by: _____

YES/NO X Response
Value

Use Matrix Values:

(+2/-2) X 4 _____

1. Is the proposed use compatible with the dominant adjacent land use?

(+2/-2) X 2 _____

2. Is the proposed use compatible with the other adjacent land uses (total and average)?

(+2/-2) X 1 _____

3. Is the proposed use generally compatible with the overall land use in the local vicinity?

Site Specific Evaluation (Impacts and Proposed Mitigation)

(+2/-2) X 3 _____

4. Is the property large enough, does the existence of wooded area, or does the lay of the land help to minimize any potential impacts the proposed use may have on adjacent uses?

(+2/-2) X 1 _____

5. Is the size or scale of proposed lots and/or structures similar to adjacent ones?

(+2/-2) X 2 _____

6. Is the traffic volume and character to be generated by the proposed use similar to the uses on properties that will be affected by proximity to parking lots, on-site roads, or access roads?

(+2/-2) X 2 _____

7. Is the potential impact on adjacent properties due to the consuming or emission of any resource or substance compatible with that of existing uses?

(+2/-2) X 2 _____

8. Is the proposed use compatible with the abilities of public agencies to provide service or of public facilities to accommodate the proposed use demands on utilities, fire and police protection, schools, roads, traffic control, parks, and open areas?

(+2/-2) X 2 _____

9. Is the proposed use cost effective when comparing the cost for providing public services and improving public facilities to the increases in public revenue from the improved property?

Sub-Total (+) _____

Sub-Total (--) _____

Total Score _____

The resulting values for each questions shall be totaled so that each land use and development proposal receives a single final score.

9-11-1: APPENDIX A, COMPATIBILITY EVALUATION:

A. General: One of the primary functions of traditional zoning is to classify land uses so that those which are not fully compatible or congruous can be geographically separated from each other. The county has opted to substitute traditional zoning with a multiple use concept in which there is no separation of land uses. Proposed incompatible uses may adversely affect existing uses, people, or lands in numerous ways: noise, odors, creation of hazards, view, water contamination, loss of needed or desired resources, property values, or infringe on a desired lifestyle. To ensure that the county can continue to grow and develop without causing such land use problems and conflicts, a mechanism designed to identify and discourage land use proposals which will be incompatible at particular locations has been devised. The compatibility evaluation of all conditional uses also provides for evaluations in a manner which is both systematic and consistent.

B. Purpose; Use:

1. The compatibility rating is to be used as a tool to assist in the determination of compatibility. The compatibility rating is not the sole deciding factor in the approval or denial of any application.
2. Staff prepares a preliminary compatibility rating for conditional use permits, except for conditional use permits for PUDs. The commission reviews the compatibility rating and may change any value.

C. General Evaluation: Completing the compatibility questions and evaluation (form):

1. All evaluations shall be made as objectively as possible by assignment of points for each of a series of questions. Points shall be assigned as follows:

Plus 2 - assigned for full compatibility (adjacency encouraged).

Plus 1 - assigned for partial compatibility (adjacency not necessarily encouraged).

0 - assigned if not applicable or neutral.

Minus 1 - assigned for minimal compatibility (adjacency not discouraged).

Minus 2 - assigned for no compatibility (adjacency not acceptable).

2. Each response value shall be multiplied by some number, which indicates how important that particular response is relative to all the others. Multipliers shall be any of the following:

x4 - indicates major relative importance.

x3 - indicates above average relative importance.

x2 - indicates below average relative importance.

x1 - indicates minor relative importance.

D. Matrix - Questions 1 Through 3: The following matrix shall be utilized, wherever practical, to determine response values for questions one through three (3). Uses classified and listed in the left hand column and across the top of the matrix represent possible proposed, adjacent, or vicinity land uses. Each box indicates the extent of compatibility between any two (2) intersecting uses. These numbers should not be changed from proposal to proposal, except where distinctive uses arise which may present unique compatibility considerations. The commission shall determine whether or not there is a unique consideration.

E. Terms:

DOMINANT ADJACENT LAND USE: Any use which is within three hundred feet (300') of the use boundary being proposed; and

1. Comprises at least one-half ($1/2$) of the adjacent uses and one-fourth ($1/4$) of the total adjacent area; or
2. Where two (2) or more uses compete equally in number and are more frequent than all the other uses, the one with the greatest amount of acreage is the dominant land use; or
3. In all other situations, no dominant land use exists. When this occurs, the response value shall be zero.

LOCAL VICINITY: Land uses within a one to three (3) mile radius. The various uses therein should be identified and averaged to determine the overall use of the land.

F. Questions 4 Through 9:

1. In determining the response values for questions 4 through 9, the evaluators shall consider the information contained in the application, the goals and objectives of the comprehensive plan, the provisions of this title and related ordinances, information gained from an actual inspection of the site, and information gathered by the staff.
2. The evaluator or commission shall also consider proposed mitigation of the determined impacts. Adequacy of the mitigation will be a factor.

APPENDIX A

MATRIX FOR RATING

QUESTIONS 1, 2, and 3

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
RESIDENTIAL USES	1. AGRICULTURAL	+2	-1	-2	-2	-2	-2		+1	+1	+1	+2	+1	+1	-1	-1	+2	-1	-2	-1	+1	+2	+2
	2. RESIDENCE, S.F.	+2		+2	+1	+1	+1		+1	+1	-1	+2	+1	-2	+1	-1	+1	+1	-1	+1	+1	-2	-2
	3. SUBDIVISION, S.F.	-1	+2		+1	+1	+1		+1	+1	-1	+2	+1	-2	+1	-1	+1	+2	-1	+2	+1	-2	-2
	4. M.H. or R.V. PARK	-2	+1	+1		+1	+1		+1	+1	-1	+2	+1	-2	+1	-1	+1	+1	-1	+1	+1	-2	-2
	5. RESIDENCE, M.F.	-2	+1	+1	+1		+2		+1	+1	-1	+2	+1	-2	+1	-1	+1	+1	-1	+1	+1	-2	-2
	6. SUBDIVISION, M.F.	-2	+1	+1	+1	+2	+2		+1	+1	-1	+2	+1	-2	+1	-1	+1	+1	-1	+1	+1	-2	-2
	7. P.U.D., RES.	-2	+1	+1	+1	+2	+2		+1	+1	-1	+2	+1	-2	+1	-1	+1	+1	-1	+1	+1	-2	-2
CIVIC or COMMUNITY SERVICE USES	8. REL., EDUC & REHAB	+1	+2	+1	+1	+1	+1		+1	+1	-1	+2	-2	-1	-1		+2	+1	+1	-1	+1	-2	-1
	9. FRAT or GOVT	+1	+1	+1	+1	+1	+1		+1		+1	+2	-2	-1	-1		+1	+1	+1	-1	+1	-2	-2
	10. PUBLIC UTIL. (1A-3.1)	+1	-1	-1	-1	-1	-1		+1	+1		+1	-1	+1	+1		+1	-1	+1	+1	+1	+2	+2
	11. PUBLIC REC	+1	+2	+2	+2	+2	+2		-1	-1	+1	+2	-1	+1	+1		+1	+2	+1	+1	+1	-1	+1
	12. CEMETERY	+2	+1	+1	+1	+1	+1		+2	+2	+2	+1	+1	+1	+1		+1	+1	+1	+1	+2	+1	+1
	13. LANDFILL or SWR. PLANT	+1	-2	-2	-2	-2	-2		-2	-2	-1	+1		-1	-1		-2	-2	-2	-1	+2	+2	+2
COMMERCIAL USES	14. PRIV. REC. (PER)	+1	+1	+1	+1	+1	+1		-1	-1	+1	+1	-1	+1	+1		+1	+1	+2	+1	+2	-1	+1
	15. PRIV. REC. (CON)	-1	-1	-1	-1	-1	-1		-1	-1	+1	+1	-1	+1	+1		-2	-2	-1	-2	+2	-1	+1
	16. NEIGHBORHOOD BUS.	-1	+1	+1	+1	+1	+1		+2	+1	+1	+1	-2	+1	-2			+2	+2	+1	+2	-1	-1
	17. RESIDENCE BUS.	+2	+2	+1	+1	+1	+1		+2	+1	-1	+2	-2	+1	-2		+1		+1	-1	+1	+1	-2
	18. SERV. BUS.	-1	+1	+1	+1	+1	+1		+1	+1	+1	+2	+2	+2	+2		+2	+1	+2	+2		+1	+1
	19. AREA BUS.	-2	-1	-1	-1	-1	-1		+1	+1	+1	+1	-2	+1	-2		+2	-1	+2	+1	+2	-2	-2
INDUST. USES	20. REC. BUS.	-2	+2	+2	+1	+1	+1		-1	-1	+1	+1	-1	+2	-2		+1	+1	+2	+1	+2	-2	+1
	21. LIGHT IND.	+1	+1	+1	+1	+1	+1		+1	+1	+1	+2	+2	+2	+2		+2	+1	+2	+2		+1	+1
	22. HEAVY IND.	+2	-2	-2	-2	-2	-2		-2	-2	-1	+1	+2	-1	-1		-1	-2	-1	-2		+1	+2
	23. EXTR. IND.	+2	-2	-2	-2	-2	-2		-1	-2	+1	+1	+2	+1	+1		-1	-2	-1	-2	+1	+1	+2

RATE THE SOLID SQUARES AS +2

Compatibility Questions and Evaluation

Matrix Line # / Use: 3

Prepared by: CH

YES/NO X Response Value

(+2/-2) -1 X 4 -4

(+2/-2) +2 X 2 +4

(+2/-2) +1 X 1 +1

(+2/-2) +2 X 3 +6

(+2/-2) +2 X 1 +2

(+2/-2) +2 X 2 +4

(+2/-2) +2 X 2 +4

(+2/-2) +1 X 2 +2

(+2/-2) +2 X 2 +4

Sub-Total (+) 27

Sub-Total (-) 4

Total Score +23

Use Matrix Values:

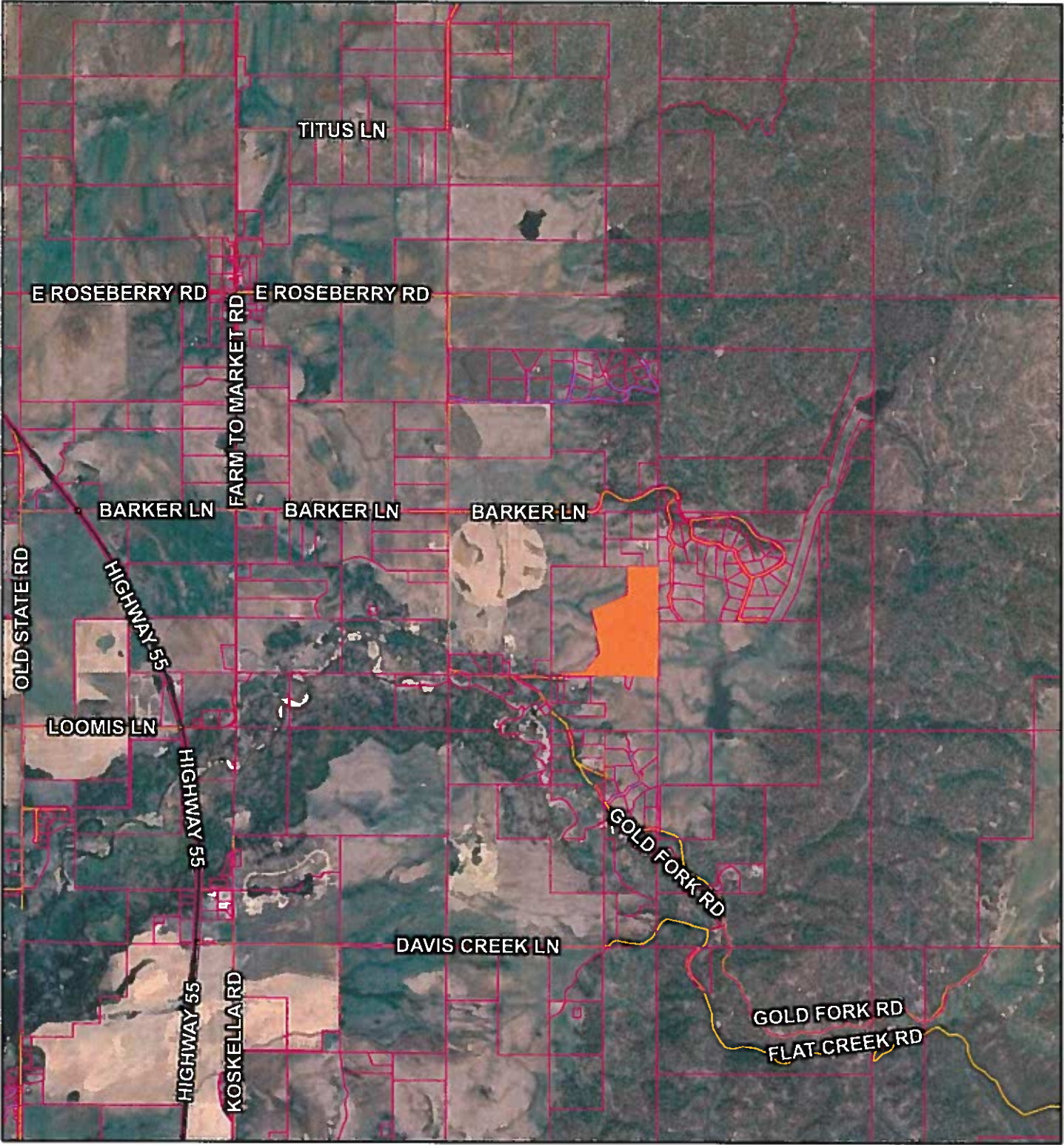
1. Is the proposed use compatible with the dominant adjacent land use?
Agricultural
2. Is the proposed use compatible with the other adjacent land uses (total and average)?
S F Subdivision
3. Is the proposed use generally compatible with the overall land use in the local vicinity?
See 1 & 2

Site Specific Evaluation (Impacts and Proposed Mitigation)

4. Is the property large enough, does the existence of wooded area, or does the lay of the land help to minimize any potential impacts the proposed use may have on adjacent uses?
It is large - no impact
5. Is the size or scale of proposed lots and/or structures similar to adjacent ones?
Large parcels/lots
6. Is the traffic volume and character to be generated by the proposed use similar to the uses on properties that will be affected by proximity to parking lots, on-site roads, or access roads?
Yes
7. Is the potential impact on adjacent properties due to the consuming or emission of any resource or substance compatible with that of existing uses?
Yes
8. Is the proposed use compatible with the abilities of public agencies to provide service or of public facilities to accommodate the proposed use demands on utilities, fire and police protection, schools, roads, traffic control, parks, and open areas?
Yes - once driveway built.
9. Is the proposed use cost effective when comparing the cost for providing public services and improving public facilities to the increases in public revenue from the improved property?
↑ revenues

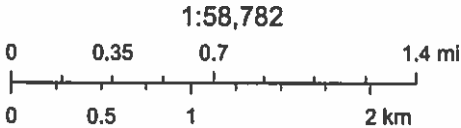
The resulting values for each questions shall be totaled so that each land use and development proposal receives a single final score.

C.U.P. 23-05 Vicinity Map



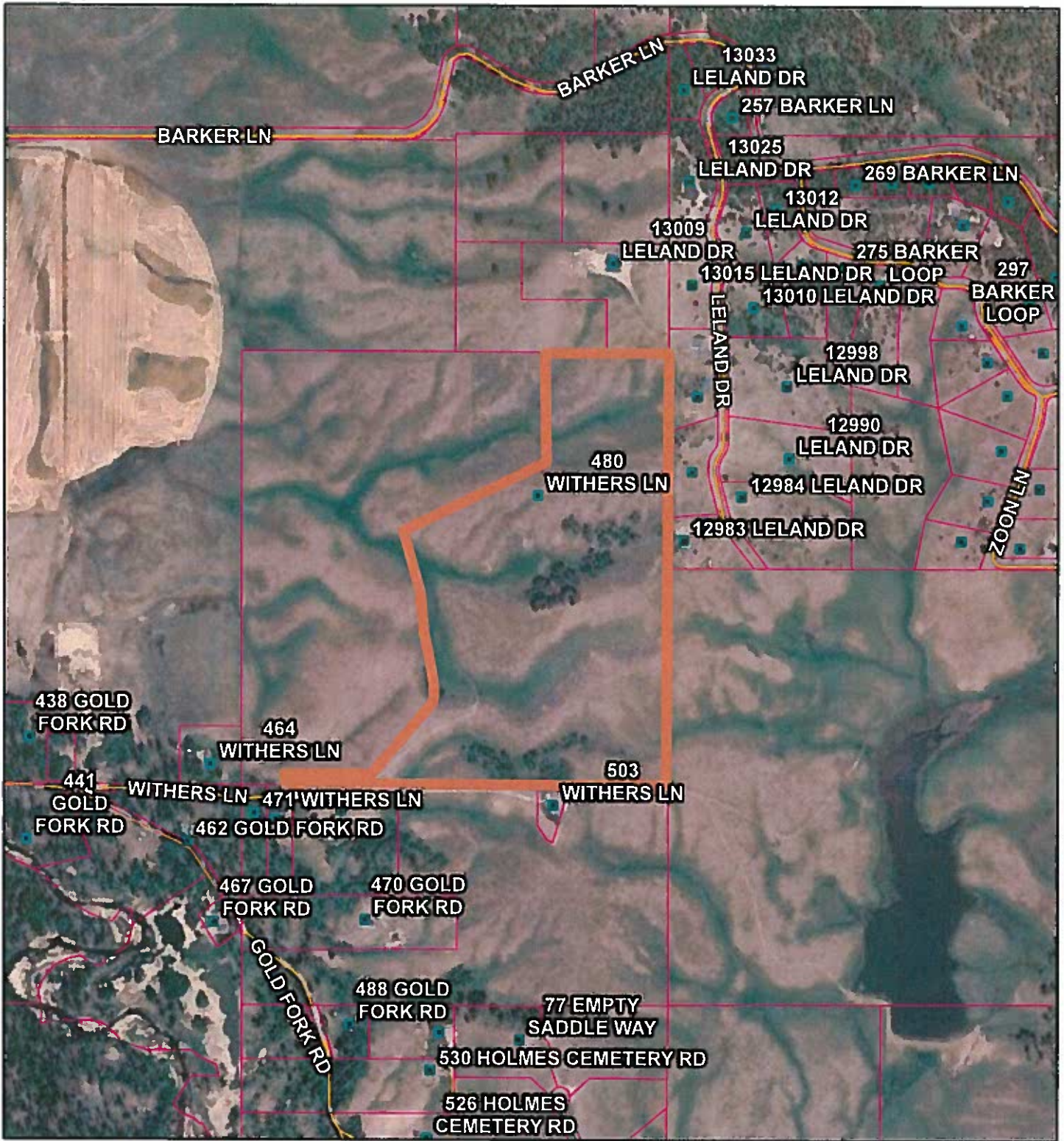
February 1, 2023

- Override 1
- Parcel Boundaries
- Roads
- MAJOR
- MINOR COLLECTOR
- COLLECTOR
- URBAN/RURAL
- PRIVATE
- County Boundaries
- VALLEY COUNTY



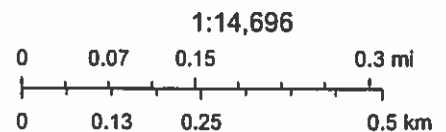
Earthstar Geographics

C.U.P. 23-05 Aerial Map



February 1, 2023

- Override 1
- Address Points
- Parcel Boundaries
- Roads
- MINOR COLLECTOR
- URBAN/RURAL
- PRIVATE
- County Boundaries
- VALLEY COUNTY



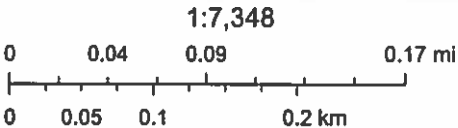
Maxar

C.U.P. 23-05 Wetland Map



February 1, 2023

- | | |
|-------------------|-------------------|
| Override 1 | Wetlands (USFWS) |
| Address Points | Roads |
| Parcel Boundaries | URBAN/RURAL |
| Subdivisions | County Boundaries |
| Other | VALLEY COUNTY |



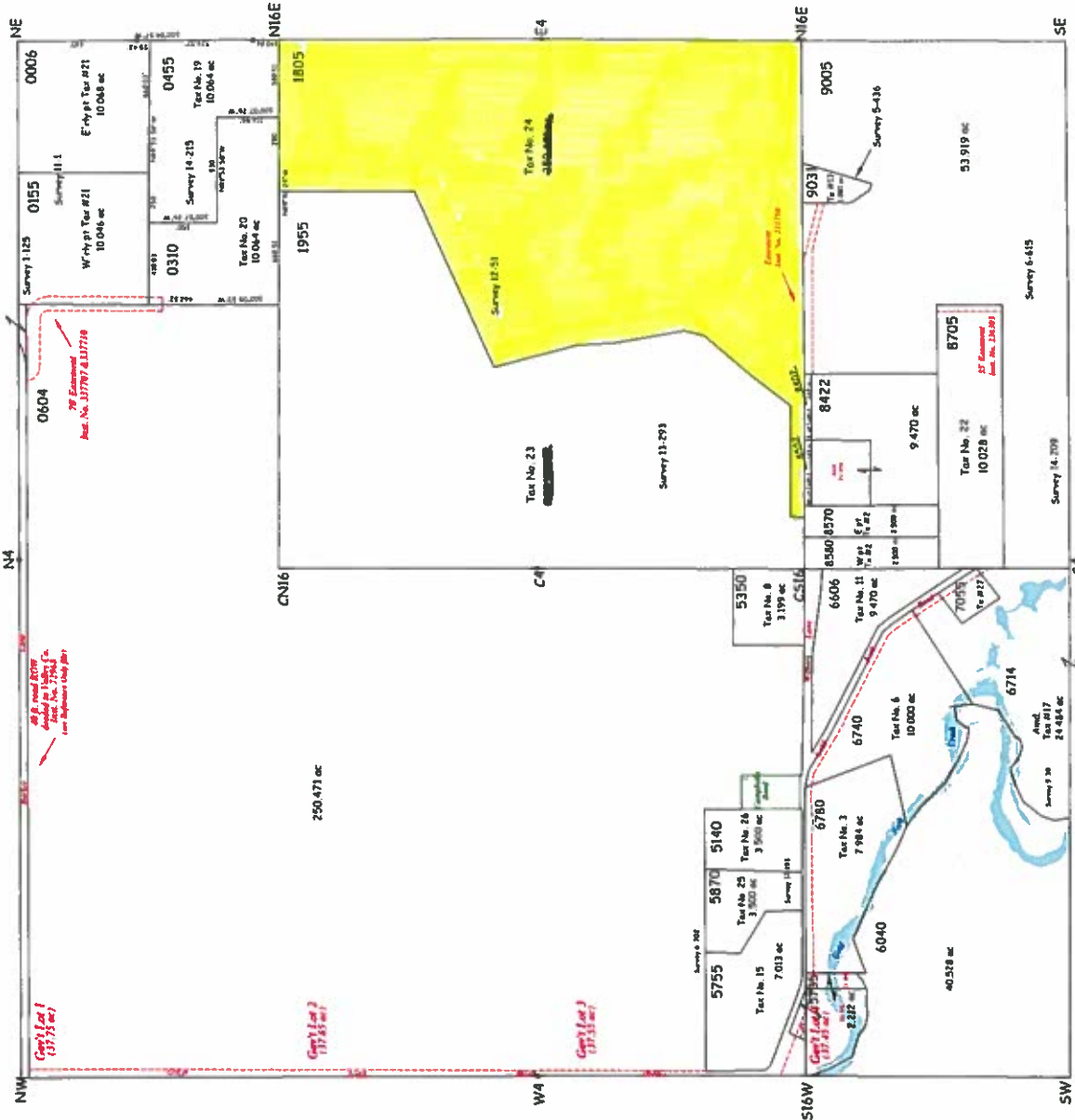
Maxar

PLAT TITLE

T W P . 1 6 N R O 4 E S E C . 1 9

VALLEY COUNTY
Cartography Dept.
Assessor's Office
Cassada, ID 83611

Filename:
Valley County Base Map
Scale: 1" = 400 ft.
Date: 2/24/2022
Drawn by: L. Frederick



This Drawing is to be used for Reference Purposes ONLY. The County is NOT Responsible for Any Measurement Contained Herein.

110915 # 110915

110915 # 110915

1-16-2011 6:23:59 No. of Pages:

ATTEMPTS TO ENHANCE
UNIQUE IN LITERATURE

1-Office Recorder Deputy

5

- Found 5/8 inch dia. rebar
- Found 1/2 inch dia. rebar
- ⊕ Found aluminum cap
- Set 1/2" x 24" rebar w/plastic cap
- () Record data in parentheses

Bearings based on Record of Survey Inst No 338139
Fences may indicate legal rights.

Property Line
Fence Line
Overhead Power Line



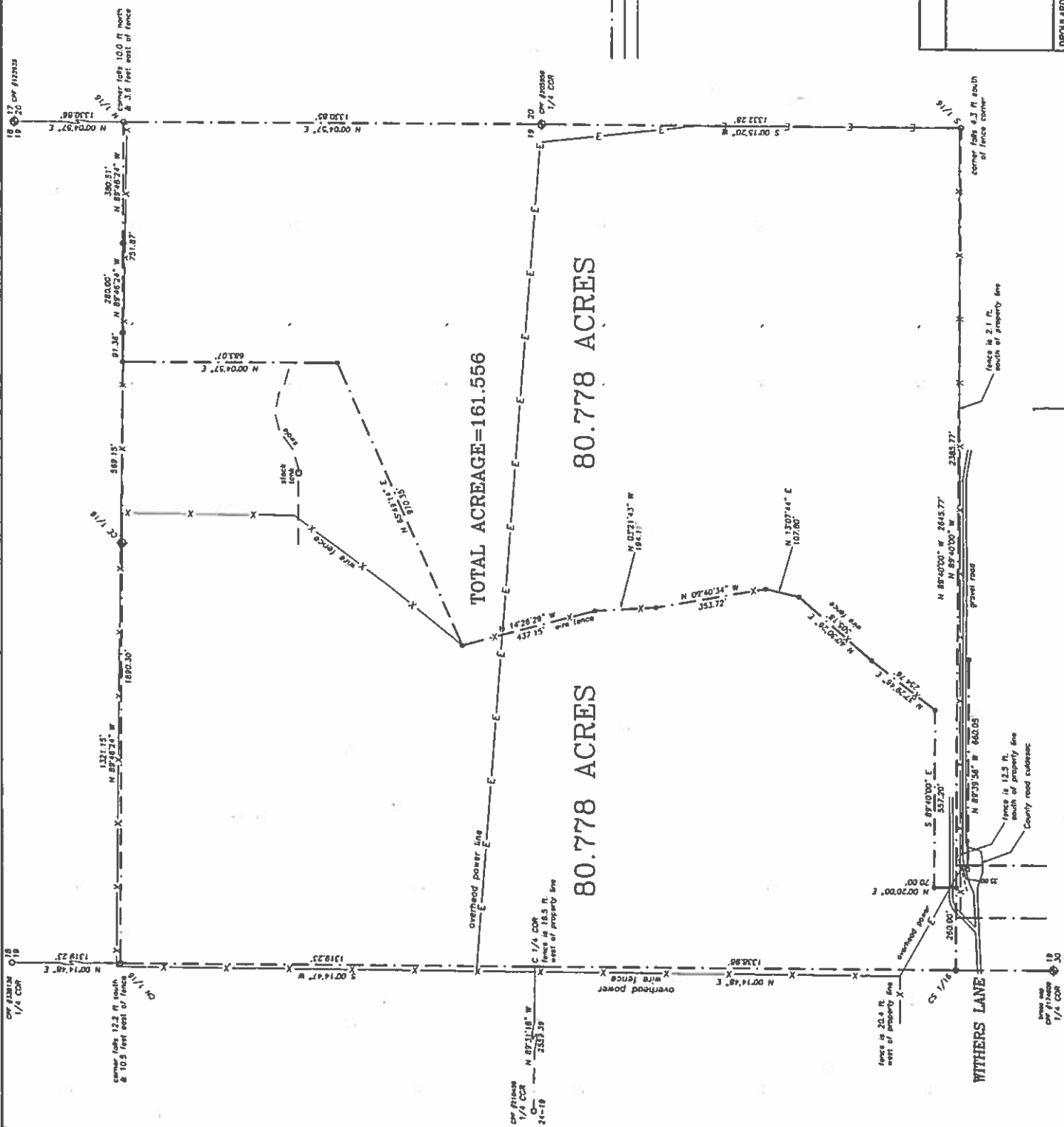
situate in the S2 NE4 and N2 SE4 of
Section 19, T. 16 N., R. 4 E., B.M.,
Valley County, Idaho

POINTS ESTATE

DROULARD LAND SURVEYING

MAY 2013

6137091

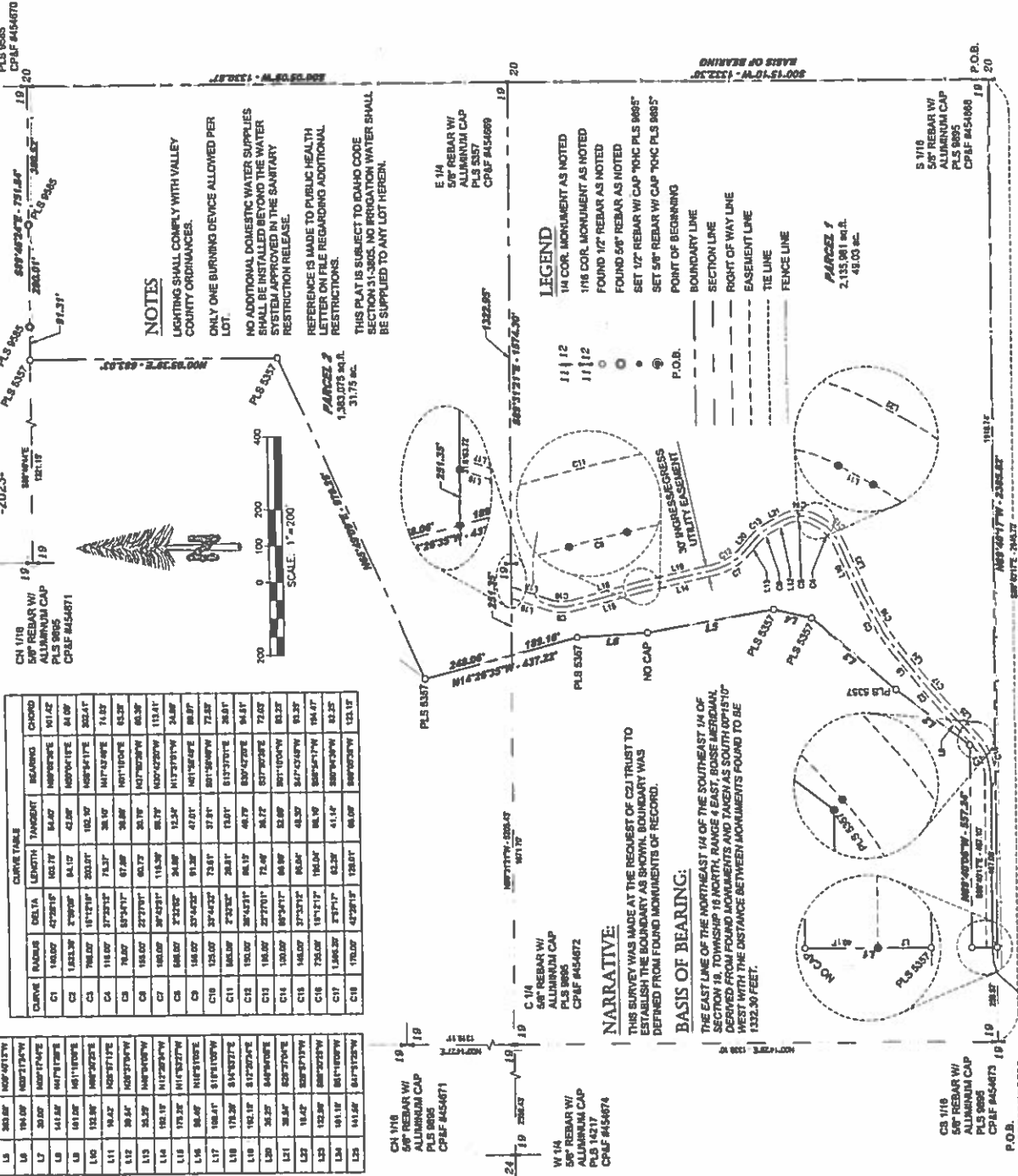


TAKKINEN ESTATES

A PORTION OF THE SOUTH 1/2 OF THE NORTHEAST 1/4
AND THE NORTH 1/2 OF THE SOUTHEAST 1/4
OF SECTION 19, TOWNSHIP 16 NORTH, RANGE 4 EAST, B.M.,
VALLEY COUNTY, IDAHO
-2023-

LINE #	LENGTH	DIRECTION
L1	78.17	N07°17'47"E
L2	254.87	N07°28'00"E
L3	306.97	N07°28'00"E
L4	107.88	N13°07'17"E
L5	303.89	N07°40'11"E
L6	194.09	N07°17'47"E
L7	30.07	N07°17'47"E
L8	141.88	N07°17'47"E
L9	161.08	N07°17'47"E
L10	132.89	N07°28'00"E
L11	16.47	N07°28'00"E
L12	39.47	N07°28'00"E
L13	35.39	N07°28'00"E
L14	193.19	N17°28'00"E
L15	179.39	N17°28'00"E
L16	164.07	N17°28'00"E
L17	108.41	N17°28'00"E
L18	178.39	N17°28'00"E
L19	161.17	N17°28'00"E
L20	35.39	N07°28'00"E
L21	39.47	N07°28'00"E
L22	104.02	N07°28'00"E
L23	102.89	N07°28'00"E
L24	161.17	N07°28'00"E
L25	161.17	N07°28'00"E

CURVE	RADIUS	DELTA	LENGTH	TANGENT	CHORD	CHORD BEARING
C1	160.07	47°28'19"	102.17	84.07	160.07	N07°17'47"E
C2	160.07	47°28'19"	102.17	84.07	160.07	N07°17'47"E
C3	160.07	47°28'19"	102.17	84.07	160.07	N07°17'47"E
C4	160.07	47°28'19"	102.17	84.07	160.07	N07°17'47"E
C5	160.07	47°28'19"	102.17	84.07	160.07	N07°17'47"E
C6	160.07	47°28'19"	102.17	84.07	160.07	N07°17'47"E
C7	160.07	47°28'19"	102.17	84.07	160.07	N07°17'47"E
C8	160.07	47°28'19"	102.17	84.07	160.07	N07°17'47"E
C9	160.07	47°28'19"	102.17	84.07	160.07	N07°17'47"E
C10	160.07	47°28'19"	102.17	84.07	160.07	N07°17'47"E
C11	160.07	47°28'19"	102.17	84.07	160.07	N07°17'47"E
C12	160.07	47°28'19"	102.17	84.07	160.07	N07°17'47"E
C13	160.07	47°28'19"	102.17	84.07	160.07	N07°17'47"E
C14	160.07	47°28'19"	102.17	84.07	160.07	N07°17'47"E
C15	160.07	47°28'19"	102.17	84.07	160.07	N07°17'47"E
C16	160.07	47°28'19"	102.17	84.07	160.07	N07°17'47"E
C17	160.07	47°28'19"	102.17	84.07	160.07	N07°17'47"E
C18	160.07	47°28'19"	102.17	84.07	160.07	N07°17'47"E



HEALTH CERTIFICATE

SANITARY RESTRICTIONS AS REQUIRED BY IDAHO CODE TITLE 50, CHAPTER 13 HAVE BEEN SATISFIED ACCORDING TO THE LETTER TO BE READ ON FILE WITH THE COUNTY RECORDER OF HIS AGENT LISTING THE CONDITIONS OF APPROVAL. SANITARY RESTRICTIONS MAY BE REMOVED, IN ACCORDANCE WITH SECTION 20-1326, IDAHO CODE, BY THE ISSUANCE OF A CERTIFICATE OF DISAPPROVAL.

DISTRICT HEALTH DEPARTMENT, EHS
INSTRUMENT NO. _____ DATE _____

BUILDING SETBACKS

SETBACKS WILL COMPLY WITH VALLEY COUNTY REGULATIONS.

RELEASE OF SANITARY RESTRICTIONS

SEE SANITARY RELEASE RECORDED TOGETHER WITH PLAT FOR APPROVED DRAIN FIELD SYSTEMS.

UTILITY & DRAINAGE EASEMENTS

UTILITY AND DRAINAGE EASEMENTS SHALL BE 10 FT WIDE ON THE INTERIOR SIDE OF ALL LOT LINES ADJOINING ROADS. THE RIGHT-OF-WAY OF ROADS SHALL FURTHER SERVE AS UTILITY AND DRAINAGE EASEMENTS EXCEPT AS RESTRICTED.

UTILITY NOTE

- SEWAGE DISPOSAL: SEWAGE DISPOSAL SHALL BE PROVIDED BY MEANS OF INDIVIDUAL SEPTIC AND DRAIN FIELD. SYSTEM INSTALLATION AND MAINTENANCE OF WHICH SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CENTRAL DISTRICT HEALTH AND BE THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE LOT OWNER. PERMITS THEREFOR SHALL BE REQUIRED FROM CENTRAL DISTRICT HEALTH.
- POTABLE WATER: WATER SHALL BE SUPPLIED BY MEANS OF INDIVIDUAL WELLS INSTALLATION AND MAINTENANCE OF WHICH SHALL BE THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE LOT OWNER.
- TELEPHONE & ELECTRICAL: ELECTRICAL POWER AND TELEPHONE SERVICE INSTALLATION AND MAINTENANCE SHALL BE THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE LOT OWNER.
- RESPONSIBILITY FOR CONSTRUCTION: RESPONSIBILITY FOR THE CONSTRUCTION AND INSTALLATION OF THE AFOREMENTIONED UTILITIES TOGETHER WITH ALL COSTS RELATED THERETO, SHALL BE THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE LOT OWNER. VALLEY COUNTY HAS NO RESPONSIBILITY FOR THE DESIGN, CONSTRUCTION, MAINTENANCE, REPAIR, REPLACEMENT, OR OPERATION OF ANY OF THE AFOREMENTIONED UTILITIES.



TIMBERLINE SURVEYING	
437 PALMISTE WAY, SUITE 3, WALPA, IDAHO 83401	
TEL: 208-751-1234	FAX: 208-751-1235
JOB NO. 2253	COUNTY: VALLEY
SHEET: 1 OF 3	
INDEX NO. 1641-19-1-0-00-00	
INDEX NO. 1641-19-2-0-00-00	

RECORD DATA

BOOK: 1641-19-1-0-00-00
PAGE: 1
SHEET: 1 OF 3

DISCLAIMER
Timberline Surveying assumes no responsibility for the accuracy or completeness of the information presented or of any ordinance to include building permits or the issuance thereof.







Valley County Transmittal
Division of Community and Environmental Health

Return to:

- ☐ Cascade
☐ Donnelly
☐ McCall
☐ McCall Impact
☒ Valley County

Rezone # _____

Conditional Use # CUP 23-05

Preliminary / Final / Short Plat TAKKINEN ESTATES

- ☐ 1. We have No Objections to this Proposal.
- ☐ 2. We recommend Denial of this Proposal.
- ☐ 3. Specific knowledge as to the exact type of use must be provided before we can comment on this Proposal.
- ☒ 4. We will require more data concerning soil conditions on this Proposal before we can comment.
- ☒ 5. Before we can comment concerning individual sewage disposal, we will require more data concerning the depth of:
☒ high seasonal ground water ☐ waste flow characteristics
☒ bedrock from original grade ☐ other _____
- ☐ 6. This office may require a study to assess the impact of nutrients and pathogens to receiving ground waters and surface waters.
- ☐ 7. This project shall be reviewed by the Idaho Department of Water Resources concerning well construction and water availability.
- ☐ 8. After written approvals from appropriate entities are submitted, we can approve this proposal for:
☐ central sewage ☐ community sewage system ☐ community water well
☐ interim sewage ☐ central water
☐ individual sewage ☐ individual water
- ☐ 9. The following plan(s) must be submitted to and approved by the Idaho Department of Environmental Quality:
☐ central sewage ☐ community sewage system ☐ community water
☐ sewage dry lines ☐ central water
- ☐ 10. Run-off is not to create a mosquito breeding problem
- ☐ 11. This Department would recommend deferral until high seasonal ground water can be determined if other considerations indicate approval.
- ☐ 12. If restroom facilities are to be installed, then a sewage system MUST be installed to meet Idaho State Sewage Regulations.
- ☐ 13. We will require plans be submitted for a plan review for any:
☐ food establishment ☐ swimming pools or spas ☐ child care center
☐ beverage establishment ☐ grocery store

- ☒ 14. Application, Test holes, ground water monitoring, & engineering required.

Reviewed By: Joe H R

Date: 2/14/23



Donnelly Rural Fire Protection District

P.O. Box 1178 Donnelly, Idaho 83615

208-325-8619 Fax 208-325-5081

February 27, 2023

Valley County Planning & Zoning Commission
P.O. Box 1350

Cascade, Idaho 83611

RE: C.U.P. 23-05 Takkinen Estates – Preliminary and Final Plat

After review, the Donnelly Rural Fire Protection District will require the following.

- Section 503.7 IFC 2018 Driveways shall be provided when any portion of an exterior wall of the first story of a building is located more than 150 feet from a fire apparatus access road. Driveways shall provide a minimum unobstructed width of 12 feet and a minimum unobstructed height of 13 feet 6 inches. Driveways in excess of 150 feet in length shall be provided with turnarounds. Driveways in excess of 200 feet in length and 20 feet in width may require turnouts in addition to turnarounds.
- Section 503.7.5 IFC 2018 all buildings shall have a permanently posted address, that shall be placed at each driveway entrance and be visible from both directions of travel along the road. In all cases, the address shall be posted at the beginning of construction and maintained thereafter. The address need be visible and legible from the road on which it is located. Address signs along one-way roads will be visible from both the intended direction of travel and the opposite direction. Where multiple address's are required at a single driveway, they need to be mounted on a single post, and additional signs will be posted at locations where driveways divide.
- Section 503.7.8 IFC 2018 Driveways shall be designed and maintained to support the imposed loads of local responding fire apparatus and shall be surfaced as to provide all weather driving capabilities.
- In accordance with Section 503.7.6 IFC 2018 the gradient for driveways cannot exceed 10 percent unless approved by the fire code official.
- Section 503.7.7 IFC 2018 Where security gates are installed, they need to have an approved means of emergency operation. The security gates and emergency operation will be maintained operational at all times.
- Driveways shall be inspected and approved by Donnelly Rural Fire Protection District personnel prior to certificate of occupancy being issued.

Please call 208-325-8619 with any questions.

Jess Ellis

A handwritten signature in blue ink, appearing to read "Jess Ellis".

Fire Marshal
Donnelly Fire Department

Valley County Assessor's Office

P.O. Box 1350 • 219 N. Main Street
Cascade, Idaho 83611-1350
Phone (208) 382-7126 • Fax (208) 382-7187

SUE LEEPER

Assessor
sleeper@co.valley.id.us



Department of Motor Vehicles
Phone (208) 382-7141 • Fax (208) 382-7187

DEEDEE GOSSI
Chief Deputy Assessor
kgossi@co.valley.id.us

February 24, 2023

Cynda Herrick
Valley Co. P&Z Administrator
Valley County Courthouse
Cascade, Idaho 83611

RE: Final Plat Review "Takkinen Estates"

Dear Cynda,

This letter is in response to your request for our office to review the final plat of the above referenced subdivision.

I have run a traverse of the subdivision boundary from the legal description provided on the Certificate of Owners. Enclosed you will find a copy. This **2024** proposed plat encompasses a parcel referenced on the Assessment Roll as TAX NO 24 IN E1/2 S19 T16N R4E. The parcel number(s) and ownership are as follows:

RP 16N04E191805 – C2J Trust

I have enclosed a copy of the GIS plat, T16N R4E Section 19, with this proposed replat highlighted. We have found no discrepancies within this plat. However, please have the subdivision surveyor look over the following. There is a scrivener's error in the second paragraph of the Certificate of Owners (HTE vs. THE). On the plat face we suggest changing the word "Parcel" to "Lot". You may wish to move the E ¼ notation to the east side of the subdivision boundary. Additionally, there are scrivener's errors in Building Setbacks (REGULATIONS) and Utility Note #4 (IRRESPONSIBILITY). We recommend any issues be resolved prior to recording this proposed Subdivision.

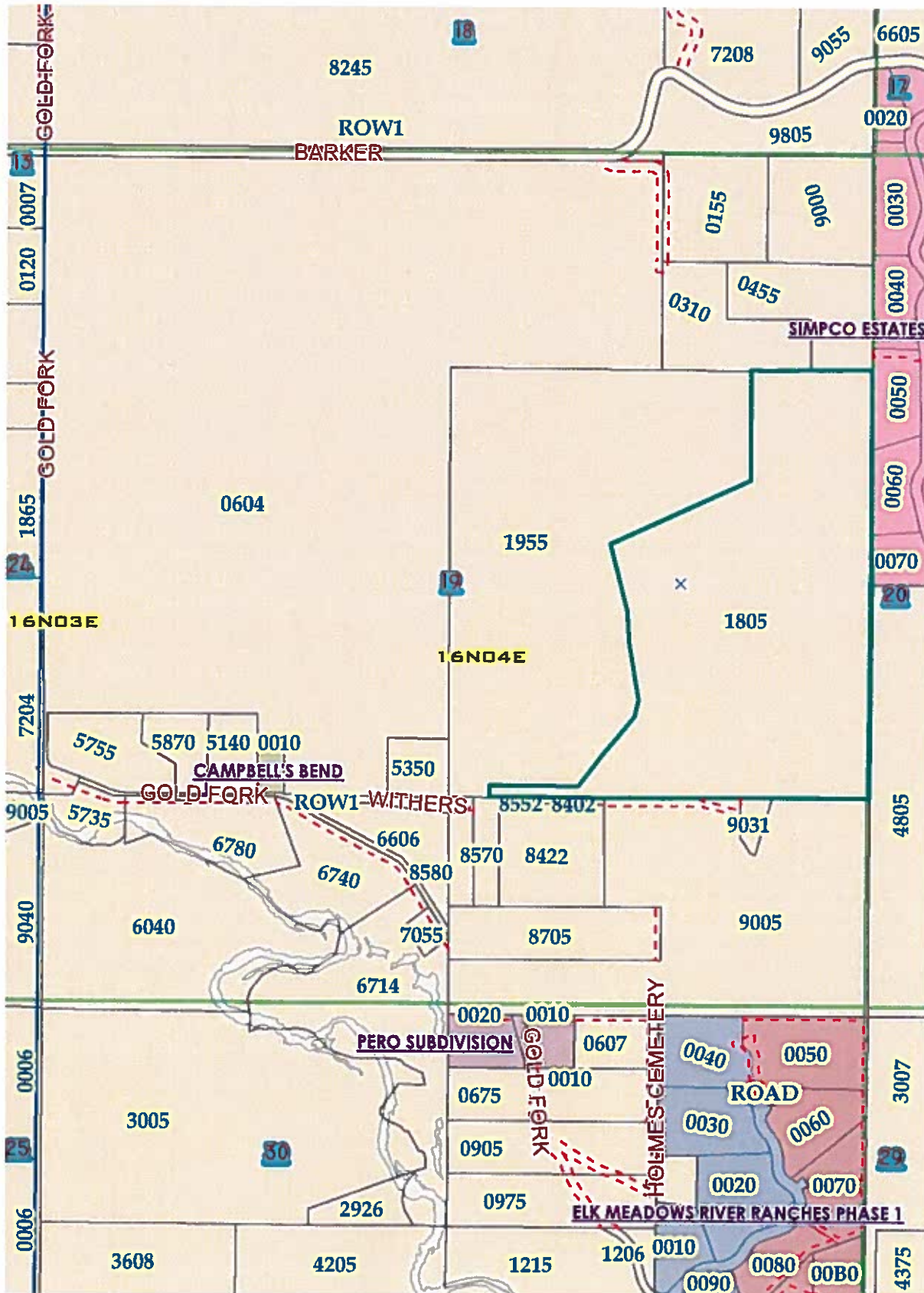
Please feel free to contact our office with any further questions or inquiries. Thank you for allowing us the opportunity to review this plat.

Sincerely,

Kathy Riffie
Cadastral Specialist Technician I
Valley County Cartography Department

Enclosure
Cc: Chip Bowers, Valley Co. Surveyor

Proposed "TAKKINEN ESTATES"
RP16NO4E191805



Legend

- Streets
- easements
- Water
- Township
- PLSS Section
- Parcels

TWP 16N R04E SECTION 19

J:\Assessor\Traverse PC\traverse 2013\16n\4E\SEC19.TRV

T16N 4E SEC19

TAKKINEN ESTATES boundary

3519070.4180 SqFt 80.7867 Acres

Point	Type	Grid Bearing	Grid Dist	Radius	Arc Length	Delta	Northing	Easting
E4							792.87	5240.17
516E		S0°15'10"W	1332.30				-539.42	5234.29
116		N89°40'17"W	2385.82				-525.74	2848.51
117		N0°17'44"E	70.17				-455.57	2848.87
118		S89°40'06"E	557.24				-458.79	3406.11
119		N37°29'50"E	254.80				-256.64	3561.21
120		N40°29'59"E	305.16				-24.59	3759.39
121		N13°07'31"E	107.85				80.44	3783.88
122		N9°40'13"W	353.68				429.09	3724.47
123		N3°21'24"W	194.09				622.85	3713.11
124		N14°26'35"W	437.22				1046.25	3604.06
125		N65°49'09"E	970.29				1443.70	4489.21
126		N0°05'39"E	683.03				2126.73	4490.33
N16E'		S89°46'24"E	751.84				2123.76	5242.17
E4'		S0°05'09"W	1330.87				792.89	5240.18

Tuesday, February 21, 2023 11:36:55

March 16th Public Hearing

From: Wendy Howell <Wendy.Howell@itd.idaho.gov>

Sent: Friday, February 17, 2023 12:56 PM

To: Cynda Herrick <cherrick@co.valley.id.us>

Subject: March 16th Public Hearing

Hi Cynda,

ITD does not have any comments for the following cases, as they do not abut the State Highway system.

- River Bottom Ranch Subdivision
- Takkinen Estates
- Trip M Refrigeration

Thank you for the opportunity to provide comments.

Thank you,

Wendy J Howell, PCED

Development Services Coordinator

Idaho Transportation Department, District 3

8150 W Chinden Blvd

Boise, ID 83714

Phone No: (208) 334-8338

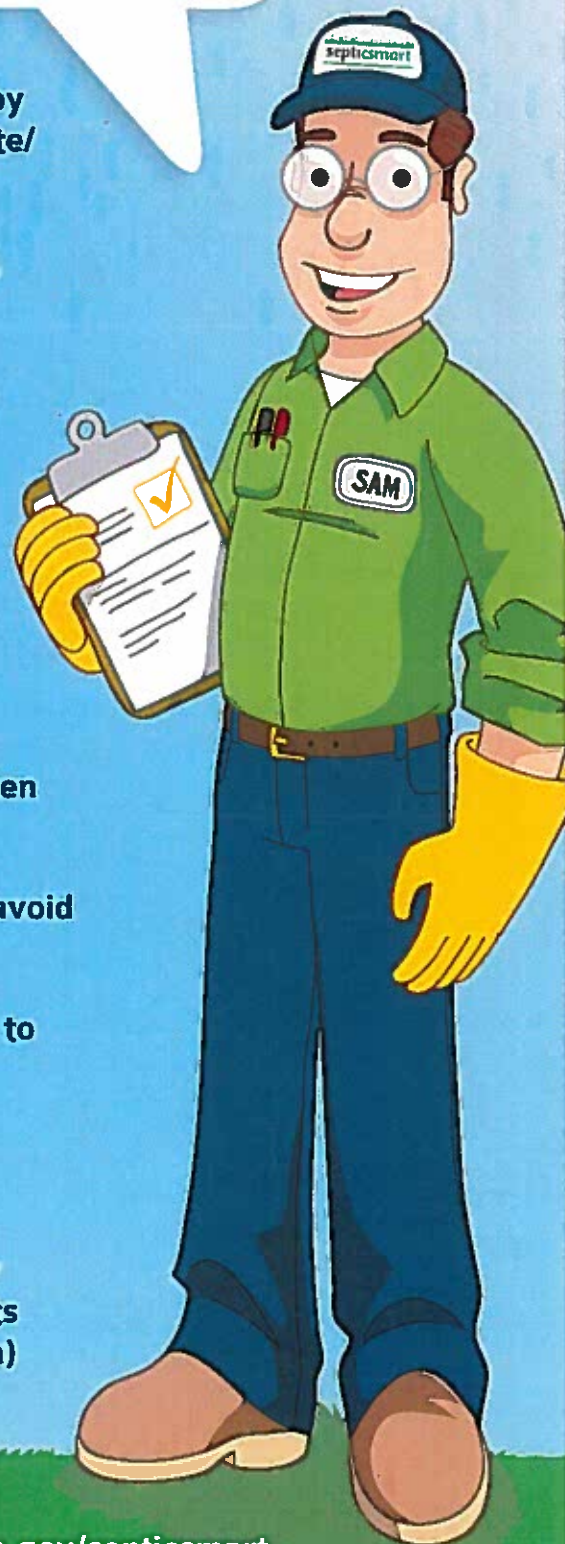
Email: wendy.howell@itd.idaho.gov



YOUR Safety •••► YOUR Mobility •••► YOUR Economic Opportunity

Top 10 Ways to Be a Good Septic Owner

- ✓ Have your system inspected every three years by a qualified professional or according to your state/ local health department's recommendations
- ✓ Have your septic tank pumped, when necessary, generally every three to five years
- ✓ Avoid pouring harsh products (e.g., oils, grease, chemicals, paint, medications) down the drain
- ✓ Discard non-degradable products in the trash (e.g., floss, disposable wipes, cat litter) instead of flushing them
- ✓ Keep cars and heavy vehicles parked away from the drainfield and tank
- ✓ Follow the system manufacturer's directions when using septic tank cleaners and additives
- ✓ Repair leaks and use water efficient fixtures to avoid overloading the system
- ✓ Maintain plants and vegetation near the system to ensure roots do not block drains
- ✓ Use soaps and detergents that are low-suds, biodegradable, and low- or phosphate-free
- ✓ Prevent system freezing during cold weather by inspecting and insulating vulnerable system parts (e.g., the inspection pipe and soil treatment area)



A Homeowner's Guide to Septic Systems



**Idaho Department of Environmental Quality
1410 N. Hilton
Boise, ID 83706**

January 2001

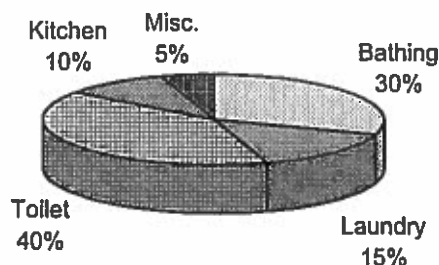


Do you have a home septic system? As an Idaho resident, there is a good chance you do—thirty-six percent of Idaho's homes, or about 210,000 residences, use septic systems to treat their sewage. These systems discharge more than 53 million gallons of wastewater into Idaho's soils annually, and this figure grows each year. In 1999, Idaho's seven health districts issued over 6,100 permits for new septic systems.

Septic systems dispose of household sewage, or wastewater, generated from toilet use, bathing, laundry, and kitchen and cleaning activities. Because septic systems are underground and seldom require daily care, many homeowners rarely think about routine operations and maintenance. However, if a septic system is not properly designed, located, constructed, and maintained, groundwater may become contaminated.

Household Wastewater

Households that are not served by public sewers depend on septic tank systems to treat and dispose of wastewater. Household wastewater carries with it all wastes that go down the drains in our homes, including human waste, dirt, food, toilet paper, soap, detergents, and cleaning products. It contains dissolved nutrients, household chemicals, grease, oil, microorganisms (including some that cause disease), and solid particles. If not properly treated by your septic system, chemicals and microorganisms in wastewater can travel through the soil to groundwater and pose a health hazard.



The average person uses between 50 and 75 gallons of water per day; mostly in the bathroom. Reducing your water use will help your septic system to work more efficiently.

Your Septic System

A conventional septic system has three working parts: a septic tank, a drainfield, and surrounding soil.

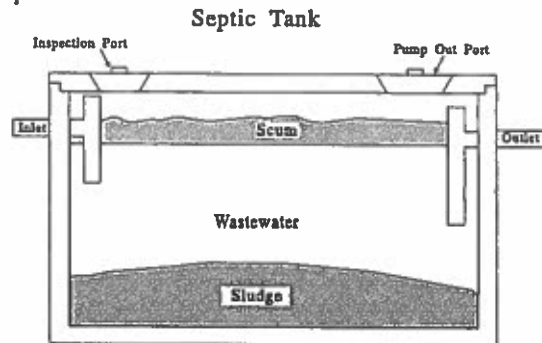
Septic Tank

Septic tanks can be made of concrete, fiberglass, or plastic and must be approved by the state. Minimum sizes of tanks have been established for residences based on the number of bedrooms in the dwelling. In Idaho, a 1,000-gallon septic tank is required for homes with three or four bedrooms. Larger tanks are required for larger homes. Local district health departments issue permits for septic systems and specify the minimum size tank. Some systems installed before the current rules and regulations may have smaller septic tanks.

A septic tank has three main functions:

- to remove as many solids as possible from household wastewater before sending the liquid, called "effluent," to a drainfield;
- to decompose solids in the tank; and
- to store solids that do not decompose.

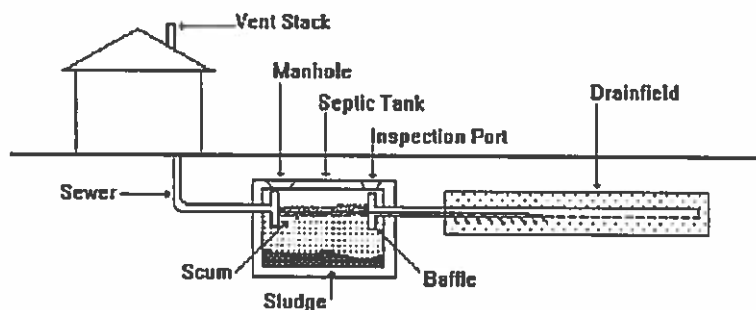
When raw wastewater enters the tank, heavy solids sink to the bottom of the tank as sludge. Light solids, such as grease and paper, float to the surface as scum. During the wastewater storage period, bacteria digest organic material in the wastewater. During this process, the solid material is reduced in volume and composition. Solids that do not decompose accumulate in the tank and eventually must be pumped out.



Tees, or baffles, are provided at the tank's inlet and outlet pipes. The inlet tee slows the incoming wastes and reduces disturbance of the settled sludge. The outlet tee keeps the solids and scum in the tank. As new wastewater enters the tank through the inlet tee, an equal amount of wastewater is pushed out of the tank through the outlet tee. The effluent that leaves the tank has been partially treated but still contains disease-causing bacteria and other pollutants.

Drainfield

Each time raw wastewater enters the tank it forces an equal amount of effluent into a drainfield. A standard drainfield is composed of a series of perforated pipes buried in gravel-filled trenches in the soil. The effluent seeps out of the perforated pipes and percolates through the gravel to the soil.



Soil

The soil below the drainfield provides the final treatment and disposal of the septic tank effluent. After the effluent has passed into the soil, most of it percolates downward and outward, eventually entering the groundwater. Soils are critical to the treatment of septic tank wastewater.

A system that is not functioning properly will release nutrient-rich and bacterial-laden wastewater into the groundwater and/or surface water. These contaminated waters pose a significant public health threat to people that come into contact with them. Wastewater that moves with groundwater can transport bacteria considerable distances. This can result in a threat to public health and adversely affect the quality of ground and surface waters.

Caring for Your Septic System

Installing Your System

In order to have a septic system installed on your property, you must first obtain a permit. Permit applications are available from your local district health department. Next, you must have a site evaluation performed. Make arrangements for this with your district health department and with a licensed septic system installer. Note that not all property is suitable for septic systems, so some permits may be denied. It is recommended that you have a site evaluation performed before you purchase property. Finally, have your system installed by a licensed installer and inspected by your local health district. Provide regular, preventative, maintenance to keep your system running smoothly.

Inspecting Your System

When too much sludge and scum are allowed to accumulate in your tank, the incoming sewage will not have enough time in the septic tank for solids to settle. Solids may flow to the drainfield and clog the pipes, causing the sewage to overflow to the ground surface, where it exposes humans and animals to disease-causing organisms. To prevent this from happening, it is very important to inspect your tank regularly and have it serviced when needed. All tanks have accessible manholes for inspecting and pumping. Some excavation work may be needed to uncover the manhole.

Properly designed tanks should have enough capacity for three to eight years of use before needing service. This is dependent upon the amount of wastewater generated. It is recommended that an average family of four have its septic tank pumped out every three to five years. Don't wait for signs of system failure to have your tank pumped. Your tank should be checked annually to measure sludge and scum levels. A licensed septic tank pumper can provide a septic tank inspection and recommend when the tank should be pumped. A tank inspection should include measuring the depth of scum and sludge and inspecting the tees in the septic tank.

If you do the inspection yourself, it is important to understand that septic tanks always appear full because both the inlet and the outlet are at the top of the tank. What you will need to know is how much of the tank's volume is being taken up by scum and sludge. When sludge and scum take up more than 35 percent of the tank volume, these solids need to be removed by pumping. A pole wrapped in a coarse weave cloth can be used to check the sludge depth. An extension on the pole can be used to measure the scum depth. Record these measurements as part of your pumping records. To check the tees, uncover the inspection ports.

Never allow anyone to enter your septic tank. Dangerous gases and the lack of oxygen can kill in minutes.

While it is impractical to inspect the pipes in your drainfield, it is important to watch for drainfield failure or overuse. See "Warning Signs of System Failure" in this booklet for information.

Maintaining Your System

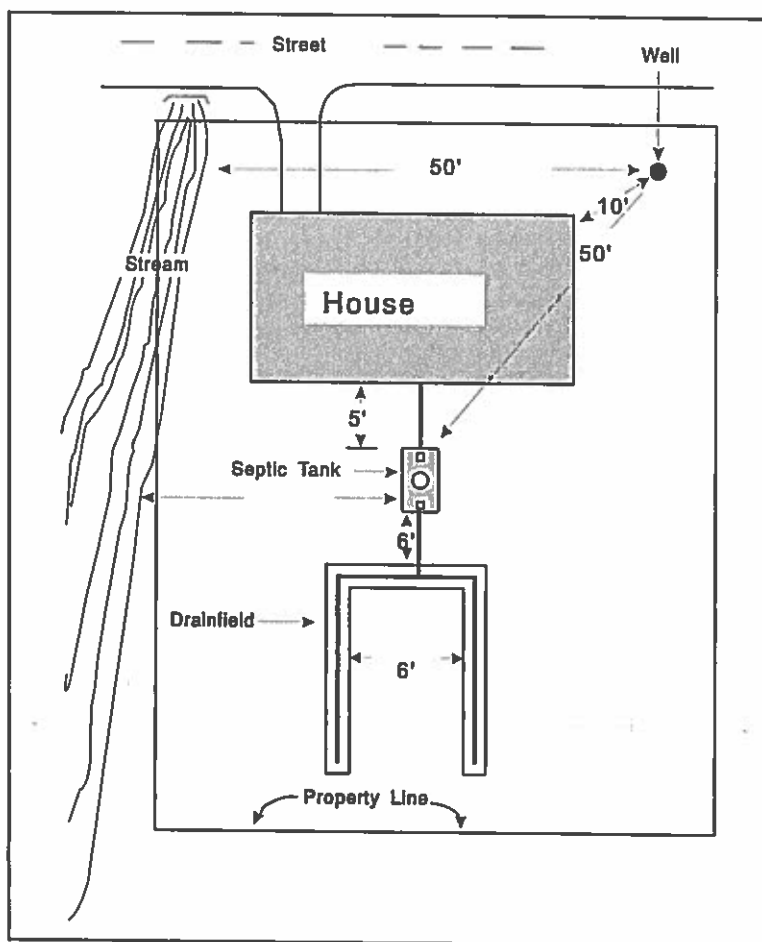
Pumping your septic tank every three years (or as determined by your inspections) will remove accumulations of solids, help keep the drainfield from becoming clogged, and help prevent you from experiencing sewage backups or septic system failure. An accumulation of sludge exceeding 35% of the total water depth in the septic tank could cause solids to enter the drainfield and clog the system. Hire a licensed septic tank pumper to pump your tank for you.

Mapping Your System

In order to take proper care of your septic system, you must know the location of the septic tank and drainfield. The location of your septic tank can be determined from plot plans, septic system inspection records, architectural or landscape drawings, or from observations of the house plumbing. If you do not have access to drawings, find where the sewer pipe leaves your house. Some installers mark the location where the waste pipe comes out of the house with an "S" on the foundation. You may want to do this as well. Probe in the ground 10 to 15 feet directly out from the location where the pipe leaves your house to find your tank.

Once the septic tank has been located, make several plot plan diagrams (with measurements) that include a rough sketch of your house, septic tank cover, drainfield area, well, and any other permanent reference points (such as trees or large rocks) and place them with your important papers. You'll find a sample system diagram on the next page, and a place to draw your own inside the front cover of this booklet. You may also want to hang a diagram in your garage and provide one to your local district health office.

Maintain a permanent record of any septic system maintenance, repair, sludge and scum levels, pumping, drainfield condition, household backups, and operations notes.



Create a septic system diagram, similar to this one, for your system.

Warning Signs of System Failure

While proper use, inspections, and maintenance should prevent most septic tank problems, it is still important to be aware of changes in your septic system and to act immediately if you suspect a system failure. There are many signs of septic system failure:

- surfacing sewage or wet spots in the drainfield area;
- plumbing or septic tank backups;
- slow draining fixtures;
- gurgling sounds in the plumbing system;
- sewage odors in the house or yard (note that the house plumbing vent on the roof will emit sewage odors and this is normal); and
- tests showing the presence of bacteria in well water.

If you notice any of these signs, or if you suspect your septic tank system may be having problems, contact a licensed septic system professional or your local district health agency for assistance.

Septic System Dos and Don'ts

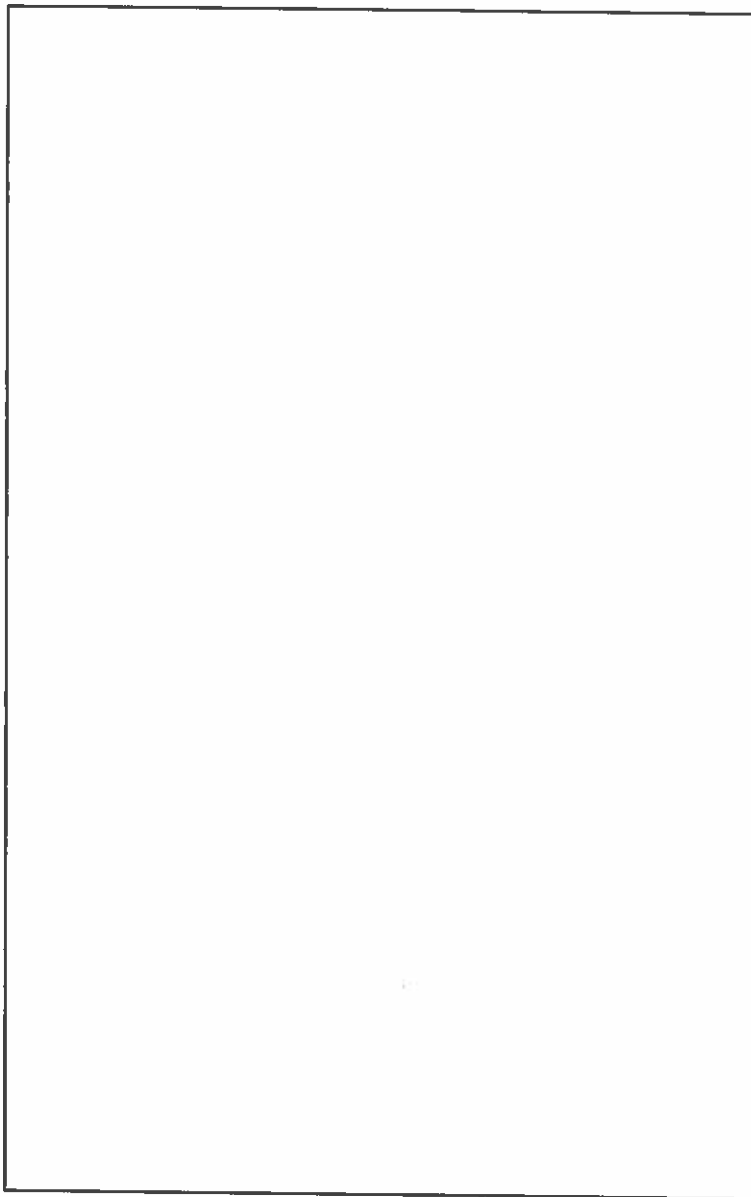
Proper operation of a septic system can prevent costly repairs or replacement. Observing the following guidelines will help to keep your system running efficiently.

Do

- ...practice water conservation. The more wastewater you produce, the more wastewater your system must treat and dispose. By reducing and balancing your use, you can extend the life of your system and avoid costly repairs.
 - Use water saving devices such as low flow showerheads.
 - Repair leaky faucets and plumbing fixtures immediately.
 - Reduce toilet reservoir volume or flow.
 - Take short showers.
 - Take baths with a partially filled tub.
 - Wash only full loads of dishes and laundry.
 - Shut off the water while shaving or brushing your teeth.
 - Balance your water use (e.g., avoid washing several loads of laundry in one day).
- ...keep accurate records. Know where your septic tank is, keep a diagram of its location using the space provided in this booklet, and keep a record of system maintenance.
- ...inspect your system annually. Check the sludge and scum levels inside the tank and periodically check the drainfield for odors, wet spots, or surfacing sewage.
- ...pump your system routinely. Pumping your septic tank is probably the single most important thing you can do to protect your system.
- ...keep all runoff away from your system. Water from roofs and driveways should be diverted away from the septic tank and drainfield area. Soil over your system should be mounded slightly to encourage runoff.
- ...protect your system from damage. Keep vehicles and livestock off your drainfield. The pressure can compact the soil or damage the pipes. Before you dig for any reason, check the location of your system and drainfield area.
- ...landscape your system properly. Plant grass over the drainfield area. Don't plant trees or shrubs or place impermeable materials, such as concrete or plastic, over the drainfield.
- ...use cleaning chemicals in moderation and only according to manufacturer's directions.

Don't

- ...flood irrigate over your system or drainfield area. The best way to irrigate these areas is with sprinklers.
- ...use caustic drain openers for clogged drains. Use boiling water or a drain snake to clean out clogs.
- ...enter a septic tank. Poisonous gases or a lack of oxygen can be fatal.
- ...use septic tank additives. They are not necessary for the proper functioning of your tank and they do not reduce the need for pumping. In fact, some additives can even harm your system.
- ...flush harmful materials into your tank. Grease, cooking oil, coffee grounds, sanitary napkins, and cigarettes do not easily decompose in septic tanks. Chemicals, such as solvents, oils, paints, and pesticides, are harmful to your systems operation and may pollute groundwater.
- ...use a garbage disposal. Using a garbage disposal will increase the amount of solids entering the septic tank and will result in the need for more frequent pumping.



Map your septic system here

For More Information

If you need to obtain a permit for a new or replacement septic system, or if you have questions about septic systems and their operation and maintenance, please contact your local health district.

Panhandle District Health Department
8500 N. Atlas Road
Hayden, ID 83835
208-415-5100

North Central District Health Department
215 10th Street
Lewiston, ID 83501
208-799-0353

Southwest District Health Department
920 Main Street
Caldwell, ID 83605
208-455-5400

Central District Health Department
707 N. Armstrong Place
Boise, ID 83704
208-327-7499

South Central District Health Department
1020 Washington Street North
Twin Falls, ID 83303
208-734-5900

Southeastern District Health Department
1901 Alvin Ricken Drive
Pocatello, ID 83201
208-239-5270

District 7 Health Department
254 "E" Street
Idaho Falls, ID 83402
208-523-5382