

# Valley County Planning and Zoning Department

219 N. Main  
PO Box 1350  
Cascade, ID 83611  
www.co.valley.id.us  
cherrick@co.valley.id.us  
208-382-7115



## C.U.P. & Preliminary Plat Application

TO BE COMPLETED BY THE PLANNING AND ZONING DEPARTMENT		<input checked="" type="checkbox"/> Check # <u>109</u> or <input type="checkbox"/> Cash
FILE # <u>CUP 23-21</u>		FEE \$ <u>600 + 200 (C.F. Plat)</u>
ACCEPTED BY _____		DEPOSIT \$ <u>1000</u>
CROSS REFERENCE FILE(S): _____		DATE <u>4-17-2023</u>
<input type="checkbox"/> ADMINISTRATIVE PLAT	COMMENTS: <u>9 lots ~ 20 acres</u>	
<input type="checkbox"/> SHORT PLAT		
<input checked="" type="checkbox"/> FULL PLAT		

When an application has been submitted, it will be reviewed in order to determine compliance with application requirements. A hearing date will be scheduled only after an application has been accepted as complete.

Applicant's Signature: *Matthew Fabry* Date: 4/17/23

The following must be completed and submitted with the conditional use permit application:

- ☐ A **preliminary plat** containing all of the necessary requirements according to the Valley County Subdivision Regulations.
- ☐ A **phasing plan and construction timeline**.
- ☐ One **8½ x 11" – 300 scale drawing** of the proposed subdivision showing only the street names and lots.
- ☐ A **plot plan**, drawn to scale, showing existing utilities, streets, easements, ditches, and buildings.
- ☐ A **landscaping plan**, drawn to scale, showing elements such as trees, shrubs, ground covers, and vines. Include a plant list, indicating the size, quantity, location, and name (both botanical and common) of all plant material to be used.
- ☐ A **site grading plan** clearly showing the existing site topography and detailing the best management practices for surface water management, siltation, sedimentation, and blowing of dirt and debris caused by grading, excavation, open cuts, side slopes, and other site preparation and development.
- ☐ A **lighting plan**.
- ☐ A **Wildfire Mitigation Plan**.
- ☐ **Names and mailing addresses of property owners within 300 feet of the property boundary.** Information can be obtained through the Valley County GIS maps. Only one list is required.
- ☐ **Ten (10) copies of the application and additional materials are required.**

We recommend you review Title 9 and Title 10 of the Valley County Code online at [www.co.valley.id.us/planning-zoning](http://www.co.valley.id.us/planning-zoning) or at the Planning and Zoning Office, 219 North Main, Cascade, Idaho. Subject to Idaho Statute 55-22 Underground Facilities Damage Prevention.

**CONTACT INFORMATION**

**PROPOSED SUBDIVISION NAME:** Moonview Ranch Phase 2

**APPLICANT** Emmers LLC **PHONE** \_\_\_\_\_

Owner ☒ Option Holder ☐ Contract Holder ☐

**MAILING ADDRESS** PO Box 710, McCall, Idaho **ZIP** 83638

**EMAIL** [REDACTED]

**PROPERTY OWNER** Same as Above

(if not the applicant)

**MAILING ADDRESS** \_\_\_\_\_ **ZIP** \_\_\_\_\_

**EMAIL** \_\_\_\_\_

**Nature of Owner's Interest in this Development?** \_\_\_\_\_

**AGENT / REPRESENTATIVE** Mathew Falvey **PHONE** [REDACTED]

**MAILING ADDRESS** PO Box 710, McCall, Idaho **ZIP** 83638

**EMAIL** [REDACTED]

**ENGINEER** Trevor Howard

**MAILING ADDRESS** 60 Difficult Drive, Idaho City, ID **ZIP** 83631

**EMAIL** [REDACTED] **PHONE** [REDACTED]

**SURVEYOR** Ralph Miller

**MAILING ADDRESS** 335 Deinhard Lane, McCall Idaho **ZIP** 83638

**EMAIL** [REDACTED] **PHONE** [REDACTED]

**PROPERTY INFORMATION**

1. **SIZE OF PROPERTY** 20.08 Acres
2. **AMOUNT OF ACREAGE OF ADJACENT LAND HELD BY THIS OWNER** 2.42 Acres
3. **ANY RESTRICTIONS ON THIS PROPERTY? Must show all easements on plat.**  
**Easements** See attached ATLA committment  
**Deed Restrictions** \_\_\_\_\_  
**Liens or encumbrances** \_\_\_\_\_
4. **LEGAL DESCRIPTION** See attached ATLA committment
5. **TAX PARCEL NUMBER(S)** RP18N03E297955

**Quarter** \_\_\_\_\_ **Section** 28 **Township** 18N **Range** 3E

6. EXISTING LAND USES AND STRUCTURES ON THE PROPERTY:

Irrigated pasture, meadow & dry grazing

7. ARE THERE ANY KNOWN HAZARDS ON OR NEAR THE PROPERTY (such as canals, hazardous material spills, soil or water contamination)? If so, describe and give location: No

8. ADJACENT PROPERTIES HAVE THE FOLLOWING BUILDING TYPES AND/OR USES:

North Irrigated Pasture, McCall Activity Barn

South Rural Residential

East Rural Residential

West Irrigated pasture, dry grazing

9a. TYPE OF TERRAIN: Mountainous ☐ Rolling ☒ Flat ☒ Timbered ☐

9b. DOES ANY PORTION OF THIS PARCEL HAVE SLOPES IN EXCESS OF 15%? Yes ☐ No ☒

9c. DESCRIBE ANY SIGNIFICANT NATURAL RESOURCES SUCH AS ROCK OUTCROPPING, MARSHES, WOODED AREAS: None

10a. WATER COURSE: None

10b. IS ANY PORTION OF THE PROPERTY LOCATED IN A FLOODWAY OR 100-YR FLOODPLAIN?  
(Information can be obtained from the Planning & Zoning Office) Yes ☐ No ☒

10c. ARE THERE WETLANDS LOCATED ON ANY PORTION OF THE PROPERTY? Yes ☐ No ☒

10d. WILL ANY PART OF THE PROPERTY BE SUBJECT TO INUNDATION FROM STORMWATER OVERFLOW OR SPRING MELTING RUN-OFF? No

11a. NUMBER OF EXISTING ROADS: 1 Width 28' Public ☐ Private ☒

Are the existing road surfaces paved or graveled? Gravel ☒ Paved ☐

11b. NUMBER OF PROPOSED ROADS: 1 Proposed width: 28'

Will the proposed roads be Public ☐ Private ☐

Proposed road construction: Gravel ☐ Paved ☐

12a. EXISTING UTILITIES ON THE PROPERTY ARE AS FOLLOWS: None

12b. PROPOSED UTILITIES: Septic, individual well, power and communications

Proposed utility easement width \_\_\_\_\_ Locations \_\_\_\_\_

13. SOLID WASTE DISPOSAL METHOD: Individual Septic ☒ Central Sewage Treatment Facility ☐
14. POTABLE WATER SOURCE: Public ☐ Water Association ☐ Individual ☒  
If individual, has a test well been drilled? \_\_\_\_\_ Depth \_\_\_\_\_ Flow \_\_\_\_\_ Purity Verified? \_\_\_\_\_  
Nearest adjacent well \_\_\_\_\_ Depth \_\_\_\_\_ Flow \_\_\_\_\_
15. ARE THERE ANY EXISTING IRRIGATION SYSTEMS? Yes ☐ No ☒  
Are you proposing any alterations, improvements, extensions or new construction? Yes ☐ No ☒  
If yes, explain: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
16. DRAINAGE (Proposed method of on-site retention): Roadside swales & on-site detention basins  
Any special drains? No (Please attach map)  
Soil type(s): Archabal/Donneloam  
(Information can be obtained from the Natural Resource Conservation Service: [websoilsurvey.nrcs.usda.gov](http://websoilsurvey.nrcs.usda.gov))
17. WILL STREETS AND OTHER REQUIRED IMPROVEMENTS BE CONSTRUCTED PRIOR TO THE RECORDING OF THE FINAL PLAT? Yes, and/or financial assurances  
If not, indicate the type of surety that will be put up to ensure the construction of the improvements within one (1) year from the date of filing the plat: \_\_\_\_\_  
\_\_\_\_\_
16. OUTLINE OF PROPOSED RESTRICTIVE COVENANTS:  
Setbacks: Front 50 feet Sides 20 feet Rear 20 feet  
Mobile homes allowed? Yes ☐ No ☒  
Minimum construction value N/A Minimum square footage N/A  
Completion of construction required within 2 Days ☐ Months ☐ Years ☒  
Resubdivision permitted? Yes ☐ No ☒  
Other \_\_\_\_\_
17. LAND PROGRAM:  
Open Areas and/or Common Areas Yes ☐ No ☐  
Acreage in subdivision 20.08 Number of lots in subdivision 9  
Typical width and depth of lots 200 x 300  
Typical lot area 2 Minimum lot area 2 Maximum lot area 2+  
Lineal footage of streets 525 Average street length per lot 144  
Percentage of area in streets \_\_\_\_\_ %  
Dedicating road right-of-way to Valley County? Yes ☐ No ☒  
Percentage of area of development to be public (including easements) 0 %  
Maximum street gradient 10%  
Is subdivision to be completely developed at one time? Yes ☒ No ☐ - Attach phasing plan and timeline.
18. COMPLETE ATTACHED PLAN FOR IRRIGATION if you have water rights &/or are in an irrigation district. Submit letter from Irrigation District, if applicable.
19. COMPLETE ATTACHED WEED CONTROL AGREEMENT.
20. COMPLETE ATTACHED IMPACT REPORT. It must address potential environmental, economic, and social impacts and how these impacts are to be minimized.

# Irrigation Plan

(Idaho Code 31-3805)

This land: ☒ Has water rights available to it  
☐ Is dry and has no water rights available to it.

**Idaho Code 31-3805** states that when all or part of a subdivision is "located within the boundaries of an existing irrigation district or canal company, ditch association, or like irrigation water deliver entity ... **no subdivision plat or amendment to a subdivision plat or any other plat or map recognized by the city or county for the division of land will be accepted, approved, and recorded unless:**"

- A. The appropriate water rights and assessment of those water rights have been transferred from said lands or excluded from an irrigation entity by the owner; or
- B. The owner filing the subdivision plat or amendment to a subdivision plat or map has provided for the division of land of underground tile or conduit for lots of one acre or less or a suitable system for lots of more than one acre which will deliver water to those landowners within the subdivision who are also within the irrigation entity with the appropriate approvals:
  - 1. For proposed subdivisions located within an area of city impact, both city and county zoning authorities must approve such irrigation system.
  - 2. For proposed subdivisions outside of negotiated areas of city impact, the delivery system must be approved by the Planning and Zoning Commission and the Board of County Commissioners with the advice of the irrigation entity charged with the delivery of water to said lands (e.g., irrigation district).

To better understand your irrigation request, we need to ask you a few questions. Additional pages can be added. A list of the map requirements follows the short questionnaire. **Any missing information may result in the delay of your request before the Planning and Zoning Commission and ultimately the approval of your irrigation plan by the Board of County Commissioners as part of final plat approval.**

- 1. Are you within an area of negotiated City Impact? \_\_\_\_\_ Yes X No
- 2. What is the name of the irrigation district/company and drainage entities servicing the property?  
Irrigation: Lake Irrigation District  
Drainage: Unknown
- 3. How many acres is the property being subdivided? 19.78
- 4. What percentage of this property has water? Unknown
- 5. How many inches of water are available to the property? Unknown
- 6. How is the land currently irrigated? ☒ surface ☐ sprinkler ☐ irrigation well  
☒ above ground pipe ☐ underground pipe
- 7. How is the land to be irrigated after it is subdivided? ☐ surface ☐ sprinkler ☐ irrigation well  
☐ above ground pipe ☐ underground pipe
- 8. Describe how the head gate/pump connects to the canal and irrigated land and where ditches &/or pipes go.  
N/A

- 9. Is there an irrigation easement(s) on the property? ☐ Yes ☐ No

10. How do you plan to retain storm and excess water on each lot? See Stormwater Plan

---

---

11. How do you plan to process this storm water and/or excess irrigation water prior to it entering the established drainage system? (i.e. oil, grease, contaminated aggregates)

No changes to existing conditions are anticipated beyond what is shown on the plans

---

---

### Irrigation Plan Map Requirements

The irrigation plan **must be on a scalable map** and show all of the irrigation system including all supply and drainage structures and easements. Please include the following information on your map:

- ☐ All canals, ditches, and laterals with their respective names.
- ☐ Head gate location and/or point of delivery of water to the property by the irrigation entity.
- ☐ Pipe location and sizes, if any
- ☐ Rise locations and types, if any.
- ☐ Easements of all private ditches that supply adjacent properties (i.e. supply ditches and drainage ways).
- ☐ Slope of the property in various locations.
- ☐ Direction of water flow (use short arrows on your map to indicate water flow direction → ).
- ☐ Direction of wastewater flow (use long arrows on your map to indicate wastewater direction → ).
- ☐ Location of drainage ponds or swales, if any where wastewater will be retained on property
- ☒ Other information: Water rights transfer Plan.

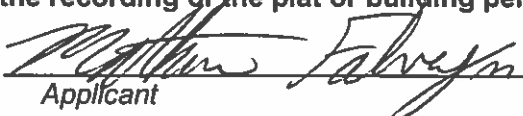
### Also, provide the following documentation:

- ☐ Legal description of the property.
- ☐ Proof of ownership.
- ☐ A written response from the irrigation entity and/or proof of agency notification.
- ☐ Copy of any water users' association agreement which shows water schedules and maintenance responsibilities.
- ☐ Copy of all new easements ready for recording (irrigation supply and drainage).
- ☐ If you are in a city area of impact, please include a copy of the approvals by the city planning and zoning commission and city council of your irrigation plan.

### =====Applicant Acknowledgement=====

I, the undersigned, agree that prior to the Planning and Zoning Department accepting this application, I am responsible to have all the required information and site plans.

I further acknowledge that the irrigation system, as approved by the Planning and Zoning Commission and ultimately the Board of County Commissioners, must be **bonded** and/or **installed** prior to the recording of the plat or building permit.

Signed:   
Applicant

Date: 4/17/23



# VALLEY COUNTY

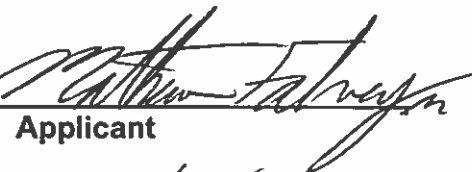
## WEED CONTROL AGREEMENT

The purpose of this agreement is to establish a cooperative relationship between Valley County and the undersigned Cooperator to protect the natural and economic values in the Upper Payette River watershed from damages related to the invasion and expansion of infestations of noxious weeds and invasive plants. This is a cooperative effort to prevent, eradicate, contain and control noxious weeds and invasive plants on public and private lands in this area. Factors related to the spread of weeds are not related to ownership nor controllable at agency boundaries. This agreement formalizes the cooperative strategy for management of these weeds addressed in Valley County's Integrated Weed Management Plan.

In this continuing effort to control Noxious Weeds, Valley County Weed Control will consult with the undersigned Cooperator and outline weed identification techniques, present optional control methods and recommend proper land management practices.

The undersigned Cooperator acknowledges that he/she is aware of any potential or real noxious weed problems on his/her private property and agrees to control said weeds in a timely manner using proper land management principles.

Valley County Weed Department can be contacted at 208-382-7199.

By:   
Applicant

By: \_\_\_\_\_  
Valley County Weed Control

Date: 4/17/23

Date: \_\_\_\_\_

# IMPACT REPORT (from Valley County Code 9-5-3-D)

You may add information to the blanks below or attach additional sheets.

- ❖ An impact report shall be required for all proposed Conditional Uses.
  - ❖ Answer all questions. Mark N/A if the question is not applicable to your application.
  - ❖ The impact report shall address potential environmental, economic, and social impacts and how these impacts are to be minimized as follows:
1. Traffic volume, character, and patterns including adequacy of existing or proposed street width, surfacing, alignment, gradient, and traffic control features or devices, and maintenance. Contrast existing with the changes the proposal will bring during construction and after completion, build-out, or full occupancy of the proposed development. Include pedestrian, bicycle, auto, and truck traffic.  

The new 28' wide gravel road will accommodate nine (9) residential lots. The roadway gradient is minimal with a sufficient 3% crown and alignment with ROW and access easement. The existing pathway access along the frontage of the property will remain unchanged for bicycle & pedestrian traffic. The owner (s) will be responsible for maintaining the roadway for shared access. A moderate increase in traffic flow will occur during construction activities.
  2. Provision for the mitigation of impacts on housing affordability.  

The primary purpose for subdividing the property is to create residential lot development opportunities in an area that historically has had very few. It is anticipated that the affordability of the lots will be comparable to other similar developments within Valley County
  3. Noise and vibration levels that exist and compare to those that will be added during construction, normal activities, and special activities. Include indoor and outdoor, day and night variations.  

Short term increase in daytime noise and vibration levels will occur during the construction process. There will be minimal noise increase due to traffic flows post-construction. Noise generated by the daily ongoings of residential dwellings will persist after residential development
  4. Heat and glare that exist and that might be introduced from all possible sources such as autos in parking areas, outdoor lights, water or glass surfaces, buildings or outdoor activities.  

Short term increase in glare during the construction process due to equipment present. No permanent changes to heat or glare will be observed as a result of the roadway construction and proposed improvements once completed. Post residential home construction changes in heat and glare will occur due to buildings, homes and vehicles and will conform to Valley County standards at that time.
  5. Particulate emissions to the air including smoke, dust, chemicals, gasses, or fumes, etc., both existing and what may be added by the proposed uses.  

Little to no net change in particulate emissions are expected outside of dust potential due to traffic on gravel roadway.
  6. Water demand, discharge, supply source, and disposal method for potable uses, domestic uses, and fire protection. Identify existing surface water drainage, wetlands, flood prone areas and potential changes. Identify existing ground water and surface water quality and potential changes due to this proposal.  

Private well water supply will furnish water to properties for domestic, irrigation, and fire protection purposes. If wetland impacts are determined necessary, they will be permitted as required. Stormwater management associated with the roadway will be addressed per Valley County standards.



7. Fire, explosion, and other hazards existing and proposed. Identify how activities on neighboring property may affect the proposed use.

Roadway development will serve as a firebreak and provide fire department access to the properties where currently there are no roads or access for fire suppression.

8. Removal of existing vegetation or effects thereon including disturbance of wetlands, general stability of soils, slopes, and embankments and the potential for sedimentation of disturbed soils.

Existing vegetation removal mostly limited to removal of pasture/native grasses for roadway establishment and roadway is not anticipated to encounter wetlands.

9. Include practices that will be used to stabilize soils and restore or replace vegetation.

Areas disturbed during construction activities on the site will be re-established with hard surface and re-vegetation/landscaping efforts.

10. Soil characteristics and potential problems in regard to slope stability, embankments, building foundation, utility and road construction. Include suitability for supporting proposed landscaping.

There are no anticipated problems with existing soil suitability. Roadway construction will be supported by appropriate imported backfill material to stabilize sections as needed. Topsoil may be added to surface restoration areas to supplement existing soil conditions as needed for growth.

11. Site grading or improvements including cuts and fills, drainage courses and impoundments, sound and sight buffers, landscaping, fencing, utilities, and open areas.

The site plan calls for creating cuts and fills for the roadway and vegetated stormwater swales and or detention basins if determined necessary. Fencing and other sight buffers will be addressed as part of the CC&Rs.

12. Visibility from public roads, adjoining property, and buildings. Include what will be done to reduce visibility of all parts of the proposal but especially cuts and fills and buildings. Include the impacts of shadows from new features on neighboring property.

Future residential structures may be visible from adjacent roadways and adjoining properties depending on construction and will conform to Valley County standards at that time

13. Reasons for selecting the particular location including topographic, geographic and similar features, historic, adjoining land ownership or use, access to public lands, recreation, utilities, streets, etc., in order to illustrate compatibility with and opportunities presented by existing land uses or character.

Site selection was based upon the availability of land with convenient access to McCall and Valley County. Access to recreational activities is desirable within the area including closed proximity to the McCall Activity Barn Recreational Area. The site is adjacent to other residential properties with similar land use.

Type text here

14. Approximation of increased revenue from change in property tax assessment, new jobs available to local residents, and increased local expenditures.

Upon completion of the improvements, including the residential homes, the taxable value will increase significantly over the value of existing pastureland.

15. Approximation of costs for additional public services, facilities, and other economic impacts.

Demand on public services such as public school systems, fire and EMS for the development is anticipated to be minimal.

16. State how the proposed development will impact existing developments providing the same or similar products or services.

The proposed development will provide additional residential development lots in an area which historically has had very few opportunities

17. State what natural resources or materials are available at or near the site that will be used in a process to produce a product and the impacts resulting from the depletion of the resource. Describe the process in detail and describe the impacts of each part.

N/A

18. What will be the impacts of a project abandoned at partial completion?

The development will increase the value, access and utility of the property. If the project is abandoned, the remaining improvements will benefit another residential project.

19. Number of residential dwelling units, other buildings and building sites, and square footage or gross non-residential floor space to be available.

Nine (9) individual lots will be available for future planned development.

20. Stages of development in geographic terms and proposed construction time schedule.

The stages of construction will depend on the availability of building materials, contractors, surveyors, and utility companies scheduling. The project timing is subject to market changes and financing, but it is expected that the project will be complete by no later than the end of 2023. See attached phasing plan and construction timeline.

21. Anticipated range of sale, lease or rental prices for dwelling units, building or other site, or non-residential floor space in order to insure compatibility with adjacent land use and development.

Lot prices are expected to be competitive with other similar improvements in the County

### **Property Tax Exemption**

New and expanding business **may** qualify for a property tax exemption for up to 5 years by meeting the qualifications in accordance with Idaho Code§ 63-602NN

Application must be filed with the Valley County Assessor's office before construction begins.

#### **Protocols for qualifying property exemption in Valley County, Idaho:**

- Application must be received prior to the start of construction (ex. Building Permits, excavation)
- Term of exemption, not to exceed 5 years, will be up to the discretion of the Valley County Board of Commissioners
- Retail sales business do not qualify
- Multi use may qualify excluding retail sale area
- Housing
  - Multi-family housing must have 5 units or more per structure.
  - Multi-Family housing units may qualify if more than one structure is built totaling 5 or more units
  - For local housing only (workforce)
  - Short term rentals not allowed
  - Units cannot be individually sold (e.g., no condominiums)
- Remodel and/or additions to existing businesses
  - Only the area of remodel/addition may qualify for exemption
  - Retail sales additions/remodel will not qualify

For further information regarding the 63-602NN application process and instructions, please contact the Valley County Assessor's office at 208-382-7126.

## Phasing Plan and Construction Timeline

### Moonview Ranch Subdivision Phase 2

The phasing timeline is dependent upon the availability of funds, contractors, surveyors and scheduling of utility companies. We currently believe that the following schedule can be achieved within reasonable expectations.

#### Phase 1 2023-2024

Gravel Roadway construction

Roadway drainage improvements and grading

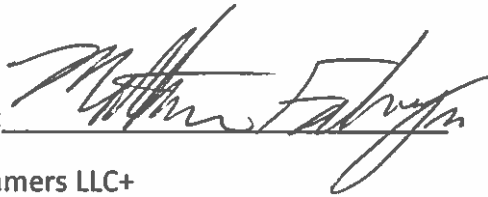
By   
Emmers LLC

Date: 4/17/23

## Landscaping Plan

### Moonview Ranch Subdivision Phase 2

Currently there are no specific plans for landscaping within the development. All areas disturbed during the construction process will be re-vegetated utilizing native grasses, sod, landscaping, or any combination of the above.

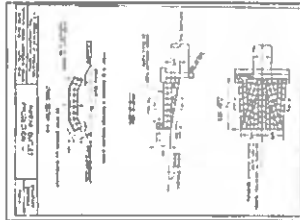
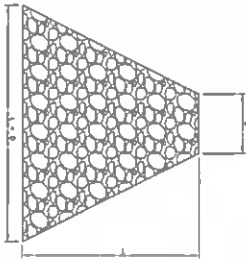
By:   
Emmers LLC+

Date: 4/17/23

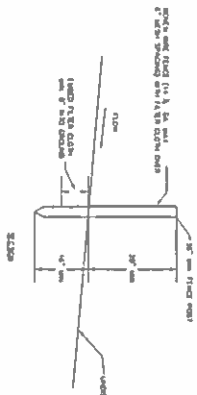
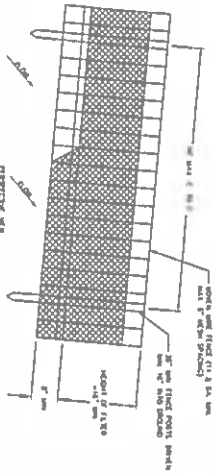
## 42



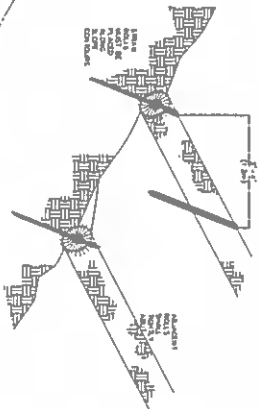
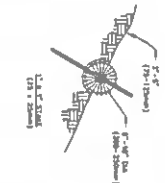
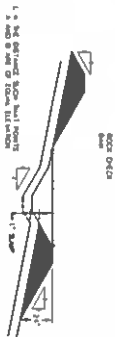
### STRAW ROLL DETAIL



## 3

[illegible]

1. STELLI, CRINA & T. DE LU  
THEY ARE F. INFORMATION  
- MONY AND IS EAST.  
B. WAS SET ON ONE TIME.  
- CLONE FLYING N. J. J. J. J.  
THEY J. J. J. J. J. J. J.  
ON APPROACH CR. J. J. J.  
- CLONE FLYING N. J. J. J.  
THEY J. J. J. J. J. J. J.  
ON APPROACH CR. J. J. J.



1. State the indication  
of the test and the  
method of the test.  
2. State the result of the test.  
3. State the interpretation of the test.  
4. State the action to be taken.  
5. State the date of the test.  
6. State the name of the person who performed the test.  
7. State the name of the person who reviewed the test.  
8. State the name of the person who approved the test.  
9. State the name of the person who signed the test.  
10. State the name of the person who issued the test.

—

- [illegible]

3

- [illegible]


## 3

- [illegible]

0.000

44 FLE10 TO FLE11	3 FLE1	3 FLE1
40 FLE1 NO 00 FLE1	3 FLE1	3 FLE1
400 FLE1 TO 440 FLE1	3 FLE1	3 FLE1
120 FLE1 NO 240 FLE1	3 FLE1	3 FLE1
240 FLE1 TO 400 FLE1	3 FLE1	1 FOOT

which military had the right to be involved in the  
matters of the army of the United States and the  
the United States in the United States.

SHEET NO.  C1.1	DATE 10/13/13 F.M. 10/13/13 C.B. 10/13/13	NO.	REVISIONS	DATE	SITE GRADING AND DRAINAGE PLAN for MOON VIEW RANCH SUBDIVISION PHASE 2	Bowers Land Surveys, Inc.	



## Lighting Plan

### Moonview Ranch Phase 2

The roadway will have no lighting. Residential dwellings will be fitted with external lighting secured to buildings conforming to Valley County standards.

By:  Date: 4/17/22

Emmers LLC



## Wildfire Mitigation Plan

### Moonview Ranch Phase 2

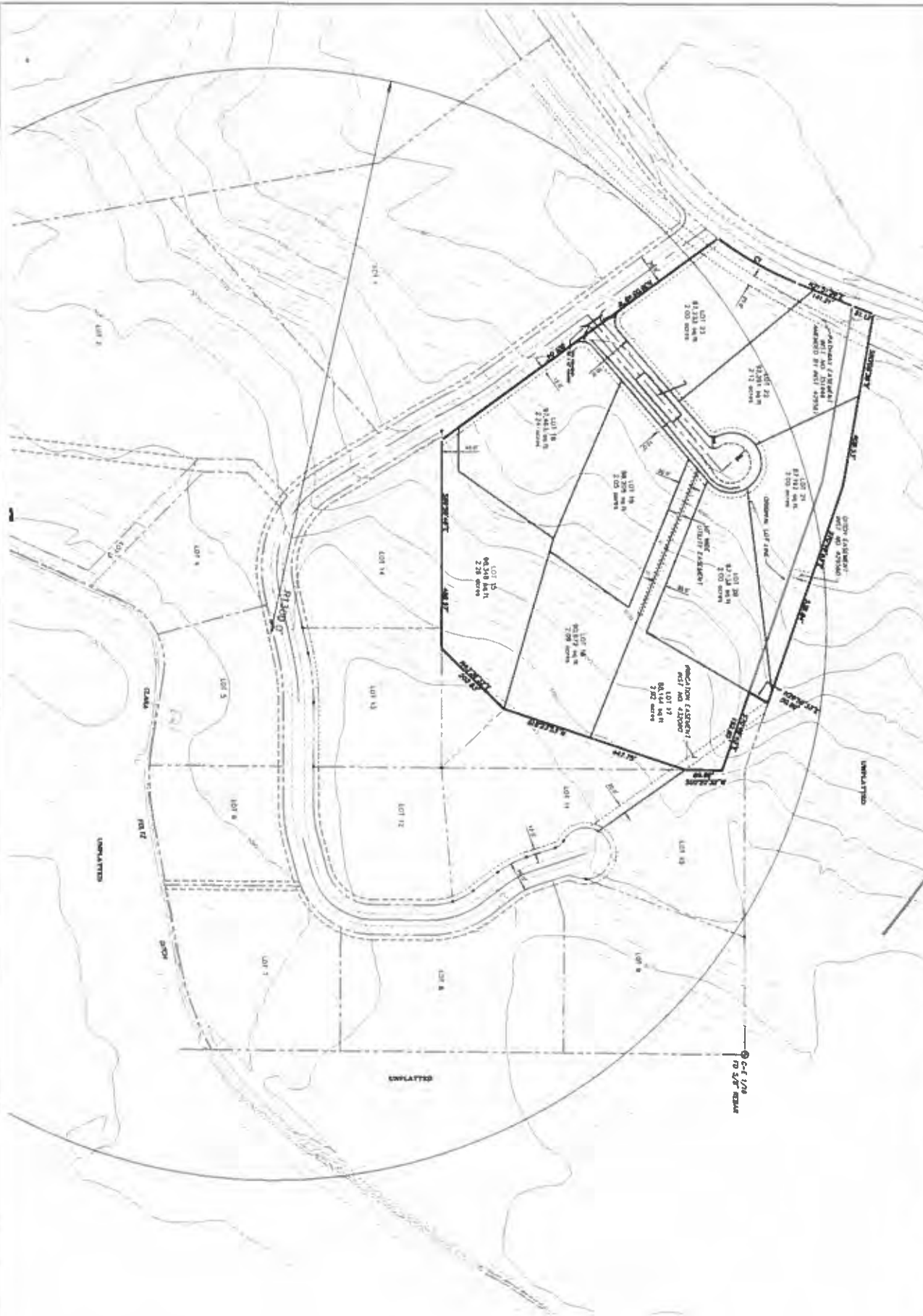
The roadway itself is a form of wildfire mitigation providing a long firebreak. The roadway will also provide emergency vehicles access to the property for fire suppression efforts. Development of roadways will conform to standards for required turn arounds and access points.

There is an existing 30,000 gallon water tank in Moonview Ranch Subdivision that will also be utilized in MoonView Ranch Subdivision Phase 2.

Site re-vegetation efforts will consist of native grasses, sod, landscaping and grading to improve upon existing irrigated grazing land conditions to further mitigate wildfire.

By:  Date 4/17/22

Emmers LLC



DATE: P.A. C.D. S.H. C.S.		NO. REVISIONS DATE		MOON VIEW RANCH SUBDIVISION PHASE 2 FIRE TANK		Bowers Land Surveys, Inc. 185419 185419	
---------------------------------------	--	--------------------------	--	--	--	---	--

IDAHO DEPARTMENT OF WATER RESOURCES  
WELL DRILLER'S REPORT1. WELL TAG NO. D 93620 93619Drilling Permit No. 902568

Water right or injection well # \_\_\_\_\_

2. OWNER: Garrett Pavius

Name \_\_\_\_\_

Address PO Box 1765City McCall State ID Zip 83638

## 3. WELL LOCATION:

Twp. 18 North ☒ or South ☐ Rge. 03 East ☒ or West ☐Sec. 29 1/4 SE 1/4 SW 1/4Gov't Lot \_\_\_\_\_ County ValleyLat. 44 51.7983N (Deg and Decimal minutes)Long. 116 07.0471W (Deg and Decimal minutes)

Address of Well Site \_\_\_\_\_

Moon Ridge Dr. City McCall

(Give at least names of road + distance to house or landmark)

Lot. 3 Blk. \_\_\_\_\_ Sub. Name Moon View

## 4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation ☐ Thermal ☐ Injection☐ Other \_\_\_\_\_

## 5. TYPE OF WORK:

☒ New well ☐ Replacement well ☐ Modify existing well☐ Abandonment ☐ Other \_\_\_\_\_

## 6. DRILL METHOD:

☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other Dual Rotary

## 7. SEALING PROCEDURES:

Seal material	From (ft)	To (ft)	Quantity (lbs or ft)	Placement method/procedure
Bentonite	0	60	1800	Pullback & Pour

## 8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
6	+2	340	.250	Steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 340

## 9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method \_\_\_\_\_Manufactured screen ☒ Y ☐ N Type Wire WoundMethod of installation Set & Pullback

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
340	355	14		5	Stainless	.250

Length of Headpipe 8' Length of Tailpipe 2'Packer ☒ Y ☐ N Type K

## 10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft)	Placement method

## 11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) \_\_\_\_\_

Describe control device \_\_\_\_\_

## 12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 128 Static water level (ft) 128Water temp. (°F) 50 Bottom hole temp. (°F) \_\_\_\_\_Describe access port Sanitary Well Cap

## Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
189	90	120

## Test method:

Pump	Bailer	Air	Flowing artesian
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Water quality test or comments: Ph=8.2, TDS=58, Fe=0, GPG=6

## 13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water	
				Y	N
10	0	6	Top Soil		X
10	6	10	Clay Tan		X
10/6	10	200	Sand & Gravel	X	
6	200	330	DCG Sand, Heaving	X	
6	330	332	Clay Gray		X
6	332	366	Gray & White Sand, Heaving	X	
6	366		Clay Tan		X

*\* This GPS puts the well next to D0093620.*  
*\* kept the original GPS coordinates from the start card.*  
*- 11/13/2021*

RECEIVED  
NOV 10 2021  
WATER RESOURCES  
BOISE, IDAHO

*\* 44° 51.7928*  
*-116° 07.2180*

Completed Depth (Measurable): 357Date Started: 10/26/2021Date Completed: 10/29/2021

## 14. DRILLER'S CERTIFICATION:

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Cold Steel Mechanical Co. No. 793Principal Driller Alan Winsberger Date 11/17/2021

Driller \_\_\_\_\_ Date \_\_\_\_\_

Operator II \_\_\_\_\_ Date \_\_\_\_\_

Operator I \_\_\_\_\_ Date \_\_\_\_\_

Signature of Principal Driller and rig operator are required.

# IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

## 1. WELL TAG NO. D:

Drilling Permit No. D0093620  
902705

Water right or injection well # \_\_\_\_\_

## 2. OWNER: Rick Nelson

Name \_\_\_\_\_

Address PO Box 915

City Old Forge State NY Zip 13420

## 3. WELL LOCATION:

Twp. 18 North ☒ or South ☐ Rge. 03 East ☒ or West ☐  
Sec. 29 1/4 SE 1/4 SW 1/4

Gov't Lot \_\_\_\_\_ County Valley

Lat. 44 51.8413N (Deg. and Decimal minutes)

Long. 116 07.0540W (Deg. and Decimal minutes)

Address of Well Site \_\_\_\_\_

Moon Ridge Dr. City McCall

(Name of land owner or holder - Distance to Road or Landmark)

Lot. 2 Blk. \_\_\_\_\_ Sub. Name Moon View

## 4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation ☐ Thermal ☐ Injection  
☐ Other \_\_\_\_\_

## 5. TYPE OF WORK:

☒ New well ☐ Replacement well ☐ Modify existing well  
☐ Abandonment ☐ Other \_\_\_\_\_

## 6. DRILL METHOD:

☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other Dual Rotary

## 7. SEALING PROCEDURES:

Seal material	From (ft)	To (ft)	Quantity (lbs or ft <sup>3</sup> )	Placement method/procedure
Bentonite	0	60	1800	Pullback & Pour

## 8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing Liner	Threaded	Welded
6	+2	319	.250	Steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 319

## 9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method \_\_\_\_\_

Manufactured screen ☒ Y ☐ N Type Wire Wound

Method of installation Set & Pullback

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
319	334	14		5	Stainless	.250

Length of Headpipe 8' Length of Tailpipe 2'

Packer ☒ Y ☐ N Type K

## 10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft <sup>3</sup> )	Placement method
-----------------	-----------	---------	------------------------------------	------------------

## 11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) \_\_\_\_\_

Describe control device \_\_\_\_\_

## 12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 121 Static water level (ft) 121

Water temp. (°F) 50 Bottom hole temp. (°F) \_\_\_\_\_

Describe access port Sanitary Well Cap

## Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Bailer	Air	Flowing artesian
175	90	120	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Water quality test or comments: Ph=8.3, TDS=73, Fe=0, GPG=7

## 13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water	
				Y	N
10	0	3	Top Soil		X
10	3	6	Clay Brown		X
10/6	6	135	Sand & Gravel	X	
6	135	310	DCG Sand, Heaving	X	
6	310	312	Clay Orange		X
6	312	315	Clay Gray		X
6	315	351	Gray & White Sand, Heaving	X	
6	351	352	Clay Tan		X

\* GPS updated

RECEIVED

NOV 13 2021

IDAHO DEPARTMENT OF WATER RESOURCES  
WESTERN REGION

Completed Depth (Measurable): 336

Date Started: 10/19/2021 Date Completed: 10/22/2021

## 14. DRILLER'S CERTIFICATION:

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Cold Steel Mechanical Co. No. 793

\*Principal Driller Alan Winebarger Date 11/17/2021

\*Driller \_\_\_\_\_ Date \_\_\_\_\_

\*Operator II \_\_\_\_\_ Date \_\_\_\_\_

Operator I \_\_\_\_\_ Date \_\_\_\_\_

\* Signature of Principal Driller and rig operator are required.

# **MOON VIEW RANCH, Phase 2 STORMWATER DRAINAGE REPORT**

April 2023

Prepared for:

**EMMERS, LLC**



Prepared by:

**Trevor Howard, PE  
60 Difficult Dr  
Idaho City, Id 83631**

**MOON VIEW RANCH, PHASE 2**  
**STORMWATER DRAINAGE REPORT**  
**APRIL 2023**

**TABLE OF CONTENTS**

**REPORT SUMMARY**

**CALCULATIONS**

1. Volume
2. Peak Flow

**DRAWINGS**

Preliminary Plat  
Preliminary Plans

# **MOON VIEW RANCH, PHASE 2**

## **STORMWATER DRAINAGE REPORT**

### **APRIL 2023**

#### **REPORT SUMMARY**

This assessment of estimated storm water volume and peak flow generation resulting from the proposed Moon View Ranch, Phase 2 subdivision has been prepared in accordance with the USDA Urban Hydrology for Small Watersheds (TR-55) with reference to the McCall Drainage Management Guide. All stormwater management improvements have been designed in accordance with Valley County drainage guidelines<sup>1</sup>.

The proposed development consists of 26.63 acres with 9 residential lots. The minimum lot size is 2 acres, and the average lot size is 2.1 acres. The lots will be accessed by a 450 ft long road (Little Moose Court) ending in a cul de sac.

The proposed design will utilize roadside swales and check dams to collect the runoff from the developed lots and proposed roadway to provide treatment of the first flush storm event and to detain the excess runoff generated by the project. Any runoff in excess of the design storm event will overflow the proposed swales and drain to the roadside ditches and culverts along Little Moose Court, Big Moose Road, and Moonridge Road. This report assumes that final build-out of the residential lots will include 5,000 square feet of impervious surface for each lot.

The downstream drainage system (including Moon View Ranch Phase 1 culverts and detention ponds) were not evaluated because the drainage system for this project is designed so that post development runoff is no larger than predevelopment runoff.

The site was divided into three drainage areas to identify onsite drainage and improve runoff modeling accuracy (See Figure 2). Estimation of runoff volumes and peak flows was accomplished using the Soil Conservation Society (SCS) Curve Number Method (TR-55) with reference to The City of McCall Drainage Management Guidelines (McCall DMG). The McCall DMG was considered to be a relevant reference because this project is 1.5 miles southwest of the City of McCall.

The increase in the 25-year storm runoff volume resulting from this proposed development (see Table 1) will be detained within drainage swales located alongside the proposed roadways (see Drainage Area Map).

The swales have been designed and will be constructed to detain the difference in the 25-yr event which happens to include 1<sup>st</sup> flush (2-year, 24 hour storm) storm event as required by the IDEQ Catalog of Stormwater Best Management Practices for Idaho Cities and Counties (September 2005).

All three drainage areas outlet to 2 15" culverts crossing Big Moose Road that were designed and installed with Moon View Ranch Phase 1. WinTR-55 was used to evaluate how this project impacts the flow at these culverts. This project reduces post development peak flow at the outlet.

- 25-year pre-development peak flow – 22.18 cfs
- 25 year post-development peak flow – 20.41 cfs

**MOON VIEW RANCH, PHASE 2**  
**STORMWATER DRAINAGE REPORT**  
**APRIL 2023**

Drainage Area	Pre-Construction Volume (CF)		Post-Construction Volume (CF)		Required Volume (CF)		Available Volume (CF)
	First Flush	25-year	First Flush	25-year	First Flush	25-year	
<b>A</b>	14,021	37,242	15,335	39,871	1,314	2,629	2,772
<b>B</b>	12,871	34,187	14,077	36,601	1,207	2,413	2,769
<b>C</b>	Drainage area C is a portion of Moon View Ranch Phase 1 that is not altered by this project						0

**Table 1**

**MODEL ASSUMPTIONS:**

- Curve Number (CN) values: The following CN numbers were used to calculate the composite number for each drainage area:
  - Pasture: 79
  - Gravel road: 89
  - Roofs and other impervious areas: 98
  
- Manning's N-value: The following numbers were used to calculate the Time of Concentration, Sheet Flow time and Shallow Concentrated Flow Time:
  - Range (Natural): 0.13
  - Gravel: 0.011
  - Vegetated/landscaped ground: 0.24
  - Existing ground: 0.24



## **CALCULATIONS**

### **Volume**

## Worksheet 1 RUNOFF CURVE NUMBER AND RUNOFF

Project: Moon View Ranch Subdivision Phase 2

Location: Valley County

### Pre-Development

#### 1. Runoff Curve Number

Area	Cover and Type of Hydraulic Condition	CN From Table II-4	Area (acres)	Product of CNxArea
A	Pasture, grassland, or Range- Fair	79	11.81	932.99
A	Streets and Roads: gravel	89	0.26	23.14
B	Pasture, grassland, or Range- Fair	79	10.74	848.46
B	Streets and Roads: gravel	89	0.34	30.26
C	Pasture, grassland, or Range- Fair	79	8.24	650.96
C	Streets and Roads: gravel	89	1.47	130.83
C	Paved Parking lots, roofs,driveways, etc	98	0.34	33.32
Total			33.20	

CN (Weighted)=

total Product=  
Total Area

Composite CN	80
A	79
B	79
C	81

#### 2. Runoff

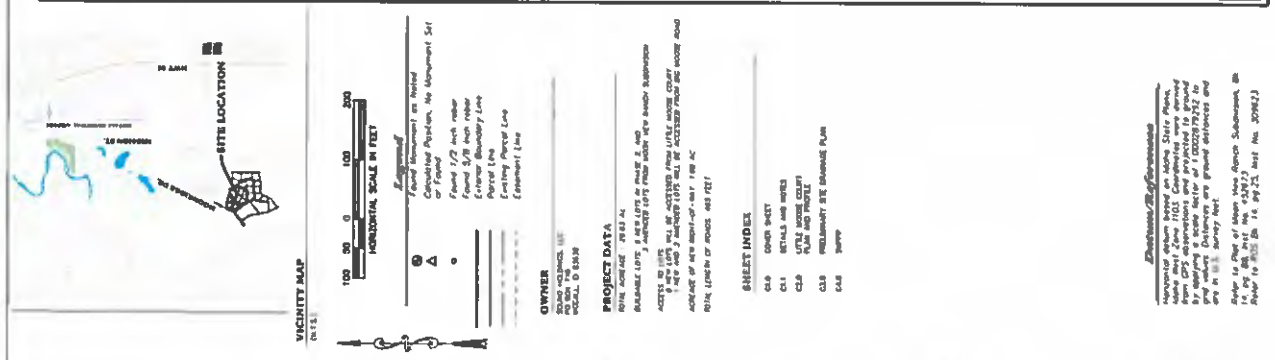
Storm Frequency	2 Yr	10 Yr	25 Yr	100 Yr
Rainfall, P (24 hour) in inches	1.56 in	2.28 in	2.45 in	3.12 in
Runoff, Q in inches (use TR-55 Equation 2-3 and Equation 2-4)	0.32 in	0.74 in	0.85 in	1.34 in

#### Notes:

1. Hydrologic data for the storm frequencies above based on the Intensity-Duration-Frequency curve for Zone C by the Idaho Transportation Department
2. Equation 2-3  $Q = (P-0.2S)^2 / (P+0.8S)$
3. Equation 2-4  $S = 1000 / CN - 10$
4. Use Type II Storm
5. Soil Type C was assumed to account for decreased infiltration of frozen ground in winter, as required for the City of McCall
6. Although a CN of 77 would be appropriate for this area (Poor brush and grass), CN of 79 was used to account for decrease infiltration rate due to frozen conditions

**NOTES:**

1. Area A Flow path is unaltered by development
2. Area C Flow path is unaltered by the development and follows the ditch of Big Moose Road from the cul de sac to existing outfall



DATE		P.M.	CP	CD
4-20-55		12	1	0
P.M.		CAD	CD	CD
2:00 PM				
SHEET NO.				
C1.0				
NO.				
REVISIONS				
DATE				

## PROJECT SUMMARY

Project: Moon View Ranch Subdivision Phase 2

Location: Valley County

### 1. Project Site

a. Total site Area (Contributing /	1,446,452 sf	33.21 ac
b. Development Area	861,617 sf	19.78 ac
c. Development Density	0.5 housing units per acre	
d. Area of Streets, sidewalks, and driveways	43,560 sf	1.00 ac
e. Estimated Roof Area	45,000 sf	1.03 ac
f. Total impervious area	88,560 sf	2.03 ac

### 2. Summary of Physical Conditions

	Pre-Development	Post Development
--	-----------------	------------------

a. Percent Impervious	0%	10%
b. Drainage Length	1,000 ft	1,100 ft
c. Average Slope of drainage	6.8%	5.5%
d. Wetland (on-site)	0 sf	0.0000 sf
	0.00%	0.00%

## Worksheet 1 RUNOFF CURVE NUMBER AND RUNOFF

Project: Moon View Ranch Subdivision Phase 2

Location: Valley County

### Post-Development

#### 1. Runoff Curve Number

Area	Cover and Type of Hydraulic Condition	CN From Table II-4	Area (acres)	Product of CNxArea
A	Pasture, grassland, or Range- Fair	79	10.92	862.68
A	Streets and Roads: gravel	89	0.58	51.62
A	Paved Parking lots, roofs,driveways, etc	98	0.57	55.86
B	Pasture, grassland, or Range- Fair	79	9.92	783.68
B	Streets and Roads: gravel	89	0.7	62.3
B	Paved Parking lots, roofs,driveways, etc	98	0.46	45.08
C	Pasture, grassland, or Range- Fair	79	8.24	650.96
C	Streets and Roads: gravel	89	1.47	130.83
C	Paved Parking lots, roofs,driveways, etc	98	0.34	33.32
<b>Total</b>			<b>33.2</b>	

CN (Weighted)=  $\frac{\text{total Product=}}{\text{Total Area}}$

Composite CN	81
A	80
B	80
C	81

#### 2. Runoff

Storm Frequency	2 Yr	10 Yr	25 Yr	100 Yr
Rainfall, P (24 hour) in in	1.56 in	2.28 in	2.45 in	3.12 in
Runoff, Q in inches (use P and CN with Figure II-3)	0.35 in	0.79 in	0.91 in	1.41 in

#### Notes:

- Hydrologic data for the storm frequencies above based on the Intensity-Duration-Frequency curve for
- Equation 2-3  $Q = (P-0.2S)^2 / (P+0.8S)$
- Equation 2-4  $S = 1000 / CN - 10$
- Use Type II Storm
- Soil Type C was assumed to account for decreased infiltration of frozen ground in winter, as required
- Although a CN of 77 would be appropriate for this area (Poor brush and grass), CN of 79 was used to

## STORAGE VOLUME

Project: Moon View Ranch Subdivision Phase 2

Location: Valley County

	2 Yr	10 Yr	25 Yr	100 Yr
Pre-Development Q	0.32 in	0.74 in	0.85 in	1.34 in
Post-Development Q	0.35 in	0.79 in	0.91 in	1.41 in

### Storage Volume

A (12.07 ac)	Pre-Development	14,021 CF	32,422 CF	37,242 CF	58,711 CF
	Post-Development	15,335 CF	34,613 CF	39,871 CF	61,778 CF
	Required	1,314 CF	2,191 CF	2,629 CF	3,067 CF
B (11.08 ac)	Pre-Development	12,871 CF	29,763 CF	34,187 CF	53,895 CF
	Post-Development	14,077 CF	31,774 CF	36,601 CF	56,711 CF
	Required	1,207 CF	2,011 CF	2,413 CF	2,815 CF

### Available Storage Volume

	Volume	Length	Bottom Width	Upstream Depth (ft)	Downstream Depth (ft)
<b>Drainage Area A</b>					
Big Moose Sta 12+25	731.25	50	6	1.5	1.5
Big Moose Sta 12+75	578.13	50	6	1	1.5
Big Moose Sta 12+75 to 13+50	1096.88	75	6	1.5	1.5
Big Moose 13+50	365.63	50	6	0	1.5
<b>Total Available</b>	<b>2,772 CF</b>				
<b>Drainage Area B</b>					
Little Moose 103+50 to 104+00	578.125	50	6	1	1.5
Little Moose 102+50 to 103+50	1156.25	100	6	1	1.5
100+50 to 101+00	456.25	50	6	0.5	1.5
101+00 to 101+50	578.125	50	6	1	1.5
<b>Total Available</b>	<b>2,769 CF</b>				

## **CALCULATIONS**

### **Peak Flow**

7

## Worksheet 2 - TIME OF CONCENTRATION

Project: Moon View Ranch Subdivision Phase 2

Location: Valley County

### Pre-Development & Post Development Basin A

#### Sheet Flow

	Range (natural)	
1. Surface description		
2. Manning's Roughness Coefficient, n	0.13	
3. Flow Length, L (max 300 ft)	310 ft	
4. Two-year 24-hour rainfall, P2	1.56 in	
5. Land slope, s	0.070 ft/ft	
6. Tt	0.31 hr	0.31 hr

#### Shallow Concentrated Flow

	Unpaved	Unpaved	
7. Surface description (paved or unpaved)			
8. Flow Length, L	620 ft	500 ft	
9. Watercourse Slope, s	0.080 ft/ft	0.010 ft/ft	
10. Average velocity, V	4.6 ft/s	1.6 ft/s	
11. Tt	0.04 hr	0.09 hr	0.13 hr

#### Channel Flow

	Range (natural)	
12. Cross sectional area, a		
13. Wetted perimeter, Pw		
14. Hydraulic Radius, r		
15. Channel slope, s		
16. Manning's roughness coefficient, n	0.13	
17. V		
18. Flow length, L	0 ft	
19. Tt	0.00 hr	0.00 hr
20. Watershed Tc or Tt		0.44 hr



## Worksheet 2 - TIME OF CONCENTRATION

Project: Moon View Ranch Subdivision Phase 2

Location: Valley County

### Pre-Development Basin B

#### Sheet Flow

	Range (natural)	
1. Surface description		
2. Manning's Roughness Coefficient, n	0.13	
3. Flow Length, L (max 300 ft)	300 ft	
4. Two-year 24-hour rainfall, P2	1.56 in	
5. Land slope, s	0.080 ft/ft	
6. Tt	0.29 hr	0.29 hr

#### Shallow Concentrated Flow

7. Surface description (paved or unpaved)	Unpaved	
8. Flow Length, L	700 ft	
9. Watercourse Slope, s	0.080 ft/ft	
10. Average velocity, V	4.6 ft/s	
11. Tt	0.04 hr	0.04 hr

#### Channel Flow

	Range (natural)	
12. Cross sectional area, a		
13. Wetted perimeter, Pw		
14. Hydraulic Radius, r		
15. Channel slope, s		
16. Manning's roughness coefficient, n	0.13	
17. V		
18. Flow length, L	0 ft	
19. Tt	0.00 hr	0.00 hr
20. Watershed Tc or Tt		0.33 hr

## Worksheet 2 - TIME OF CONCENTRATION

Project: Moon View Ranch Subdivision Phase 2

Location: Valley County

### Pre-Development & Post Development Basin C

#### Sheet Flow

	Range (natural)	
1. Surface description		
2. Manning's Roughness Coefficient, n	0.13	
3. Flow Length, L (max 300 ft)		
4. Two-year 24-hour rainfall, P2	1.56 in	
5. Land slope, s	0.080 ft/ft	
6. Tt	0.00 hr	0.00 hr

#### Shallow Concentrated Flow

7. Surface description (paved or unpaved)	Unpaved	
8. Flow Length, L		
9. Watercourse Slope, s		
10. Average velocity, V	0.0 ft/s	
11. Tt	0.00 hr	0.00 hr

#### Channel Flow

	Dense Grass	
12. Cross sectional area, a	12 sf	
13. Wetted perimeter, Pw	13 ft	
14. Hydraulic Radius, r	0.952 ft	
15. Channel slope, s	0.030 ft/ft	
16. Manning's roughness coefficient, n	0.24	
17. V	1.04 ft/s	
18. Flow length, L	2,530 ft	
19. Tt	0.68 hr	0.68 hr
20. Watershed Tc or Tt		0.68 hr

**Worksheet 2 - TIME OF CONCENTRATION**

Project: Moon View Ranch Subdivision Phase 2

Location: Valley County

**Post-Development Basin B**

Project: Moon View Ranch Subdivision Phase 2

Location: Valley County

**Post-Development Basin B****Sheet Flow**

	Range (natural)	Smooth surfaces (concrete, asphalt, gravel, or bare soil)	
1. Surface description			
2. Manning's Roughness Coefficient, n	0.13	0.011	
3. Flow Length, L (max 300 ft)	300 ft		
4. Two-year 24-hour rainfall, P2	1.56 in	1.56 in	
5. Land slope, s	0.08 ft/ft		
6. Tt	0.29 hr	0.00 hr	0.29 hr

**Shallow Concentrated Flow**

	Unpaved	Unpaved	
7. Surface description (paved or unpaved)			
8. Flow Length, L	500 ft		
9. Watercourse Slope, s	0.10 ft/ft		
10. Average velocity, V	5.1 ft/s	0.0 ft/s	
11. Tt	0.03 hr	0.00 hr	0.03 hr

**Channel Flow**

	Smooth surfaces (concrete, asphalt, gravel, or bare soil)	Smooth surfaces (concrete, asphalt, gravel, or bare soil)	
12. Cross sectional area, a	12 sf		
13. Wetted perimeter, Pw	13.00 ft		
14. Hydraulic Radius, r	0.923 ft		
15. Channel slope, s	0.010 ft/ft		
16. Manning's roughness coefficient, n	0.011	0.011	
17. V	12.84 ft/s		
18. Flow length, L	460 ft	0 ft	
19. Tt	0.01 hr	0.00 hr	0.01 hr
20 Watershed Tc or Tt			0.33 hr

T Howard

Moon View Phase 2  
Pre-Development  
Valley County, Idaho

Storm Data

Rainfall Depth by Rainfall Return Period

2-Yr (in)	5-Yr (in)	10-Yr (in)	25-Yr (in)	50-Yr (in)	100-Yr (in)	1-Yr (in)
1.56	.0	2.28	2.45	.0	3.12	.0

Storm Data Source: User-provided custom storm data  
Rainfall Distribution Type: Type II  
Dimensionless Unit Hydrograph: <standard>

T Howard

Moon View Phase 2  
Pre-Development  
Valley County, Idaho

Watershed Peak Table

Sub-Area or Reach Identifier	2-Yr (cfs)	10-Yr (cfs)	25-Yr (cfs)	100-Yr (cfs)
------------------------------------	---------------	----------------	----------------	-----------------

SUBAREAS

C (Predev)	2.07	5.40	6.31	10.07
------------	------	------	------	-------

B (Predev)	2.30	6.70	7.90	13.02
------------	------	------	------	-------

A (Predev)	2.56	7.46	8.79	14.49
------------	------	------	------	-------

REACHES

OUTLET	6.66	18.90	22.18	36.35
--------	------	-------	-------	-------

T Howard

Moon View Phase 2  
Pre-Development  
Valley County, Idaho

Hydrograph Peak/Peak Time Table

Sub-Area or Reach Identifier	Peak Flow 2-Yr (cfs) (hr)	Peak Flow 10-Yr (cfs) (hr)	Peak Time (hr) 25-Yr (cfs) (hr)	Peak Time (hr) 100-Yr (cfs) (hr)
------------------------------------	------------------------------------	-------------------------------------	--	---

SUBAREAS

C (Predev)	2.07	5.40	6.31	10.07
	12.35	12.29	12.31	12.28

B (Predev)	2.30	6.70	7.90	13.02
	12.21	12.17	12.18	12.16

A (Predev)	2.56	7.46	8.79	14.49
	12.21	12.17	12.18	12.16

REACHES

OUTLET	6.66	18.90	22.18	36.35
--------	------	-------	-------	-------

T Howard

Moon View Phase 2  
Pre-Development  
Valley County, Idaho

Structure Output Table

Reach	Peak Flow (PF), Storage Volume (SV), Stage (STG)			
Identifier	by Rainfall Return Period			
Structure				
Identifier	2-Yr	10-Yr	25-Yr	100-Yr

-----

T Howard

Moon View Phase 2  
Pre-Development  
Valley County, Idaho

Sub-Area Summary Table

Sub-Area Identifier	Drainage Area (ac)	Time of Concentration (hr)	Curve Number	Receiving Reach	Sub-Area Description
C (Predev)	10.05	0.680	81	Outlet	
B (Predev)	11.08	0.450	79	Outlet	
A (Predev)	12.33	0.450	79	Outlet	
<hr/>					
Total Area:	33.46 (ac)				



T Howard

Moon View Phase 2  
Pre-Development  
Valley County, Idaho

Reach Summary Table

Reach Identifier	Receiving Reach Identifier	Reach Length (ft)	Routing Method
-----			

T Howard

Moon View Phase 2  
Pre-Development  
Valley County, Idaho

Sub-Area Time of Concentration Details

Sub-Area Identifier/	Flow Length (ft)	Slope (ft/ft)	Mannings's n	End Area (sq ft)	Wetted Perimeter (ft)	Velocity (ft/sec)	Travel Time (hr)
-----							
C (Predev)							
User-provided							0.680
					Time of Concentration		0.680
							=====
B (Predev)							
User-provided							0.450
					Time of Concentration		0.450
							=====
A (Predev)							
User-provided							0.450
					Time of Concentration		0.450
							=====

T Howard

Moon View Phase 2  
Post-Development  
Valley County, Idaho

Storm Data

Rainfall Depth by Rainfall Return Period

2-Yr (in)	5-Yr (in)	10-Yr (in)	25-Yr (in)	50-Yr (in)	100-Yr (in)	1-Yr (in)
1.56	.0	2.28	2.45	.0	3.12	.0

Storm Data Source: User-provided custom storm data  
Rainfall Distribution Type: Type II  
Dimensionless Unit Hydrograph: <standard>

T Howard

Moon View Phase 2  
Post-Development  
Valley County, Idaho

Watershed Peak Table

Sub-Area or Reach Identifier	Peak Flow by Rainfall Return Period			
	2-Yr (cfs)	10-Yr (cfs)	25-Yr (cfs)	100-Yr (cfs)

SUBAREAS

C (Predev)	2.07	5.40	6.31	10.07
B-Postdev	3.23	8.67	10.13	16.28
A-Postdev	3.00	8.17	9.60	15.50

REACHES

Reach 1	3.23	8.67	10.13	16.28
Down	1.73	6.03	7.17	12.82
Reach 2	3.00	8.17	9.60	15.50
Down	1.81	6.11	7.25	12.83

OUTLET	5.54	17.30	20.41	35.01
--------	------	-------	-------	-------

Design Flow for Culvert  
crossing Little Moose =  
 $7.17 + 7.25 = 14.43$  cfs

T Howard

Moon View Phase 2  
Post-Development  
Valley County, Idaho

Hydrograph Peak/Peak Time Table

Sub-Area or Reach Identifier	Peak 2-Yr (cfs) (hr)	Flow 10-Yr (cfs) (hr)	and Peak Time (hr) by Rainfall Return Period 25-Yr (cfs) (hr)	100-Yr (cfs) (hr)
------------------------------------	-------------------------------	--------------------------------	--	-------------------------

SUBAREAS

C (Predev)	2.07	5.40	6.31	10.07
	12.35	12.29	12.31	12.28

B-Postdev	3.23	8.67	10.13	16.28
	12.13	12.10	12.11	12.10

A-Postdev	3.00	8.17	9.60	15.50
	12.18	12.16	12.17	12.17

REACHES

Reach 1	3.23	8.67	10.13	16.28
	12.13	12.10	12.11	12.10

Down	1.73	6.03	7.17	12.82
	12.32	12.25	12.23	12.21

Reach 2	3.00	8.17	9.60	15.50
	12.18	12.16	12.17	12.17

Down	1.81	6.11	7.25	12.83
	12.43	12.32	12.31	12.28

OUTLET	5.54	17.30	20.41	35.01
--------	------	-------	-------	-------

T Howard

Moon View Phase 2  
Post-Development  
Valley County, Idaho

Structure Output Table

Reach  
Identifier  
Structure  
Identifier

Peak Flow (PF), Storage Volume (SV), Stage (STG)  
by Rainfall Return Period

2-Yr 10-Yr 25-Yr 100-Yr

-----

Reach: Reach 1

Weir : Big M 1

0.3(ft)

PF (cfs)	1.73	6.03	7.17	12.82
SV (ac ft)	.05	.12	.14	.20
STG (ft)	1.80	4.08	4.66	6.74

Reach: Reach 2

Weir : Big M 1

0.3(ft)

PF (cfs)	1.81	6.11	7.25	12.83
SV (ac ft)	.06	.12	.14	.20
STG (ft)	1.87	4.12	4.70	6.75

T Howard

Moon View Phase 2  
Post-Development  
Valley County, Idaho

Sub-Area Summary Table

Sub-Area Identifier	Drainage Area (ac)	Time of Concentration (hr)	Curve Number	Receiving Reach	Sub-Area Description
C (Predev)	10.05	0.680	81	Outlet	
B-Postdev	11.08	0.330	80	Reach 1	
A-Postdev	12.33	0.440	80	Reach 2	
Total Area: 33.46 (ac)					

T Howard

Moon View Phase 2  
Post-Development  
Valley County, Idaho

Reach Summary Table

Reach Identifier	Receiving Reach Identifier	Reach Length (ft)	Routing Method
Reach 1	Outlet		STRUCTURE (Big M 1)
Reach 2	Outlet		STRUCTURE (Big M 1)



T Howard

Moon View Phase 2  
Post-Development  
Valley County, Idaho

Sub-Area Time of Concentration Details

Sub-Area Identifier/	Flow Length (ft)	Slope (ft/ft)	Mannings's n	End Area (sq ft)	Wetted Perimeter (ft)	Velocity (ft/sec)	Travel Time (hr)
-----							
C (Predev)							
User-provided							0.680
					Time of Concentration		0.680
						=====	
B-Postdev							
User-provided							0.330
					Time of Concentration		0.330
						=====	
A-Postdev							
User-provided							0.440
					Time of Concentration		0.440
						=====	

## **CALCULATIONS**

### **Culvert Size**

# HY-8 Culvert Analysis Report

## Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cfs

Design Flow: 3.00 cfs

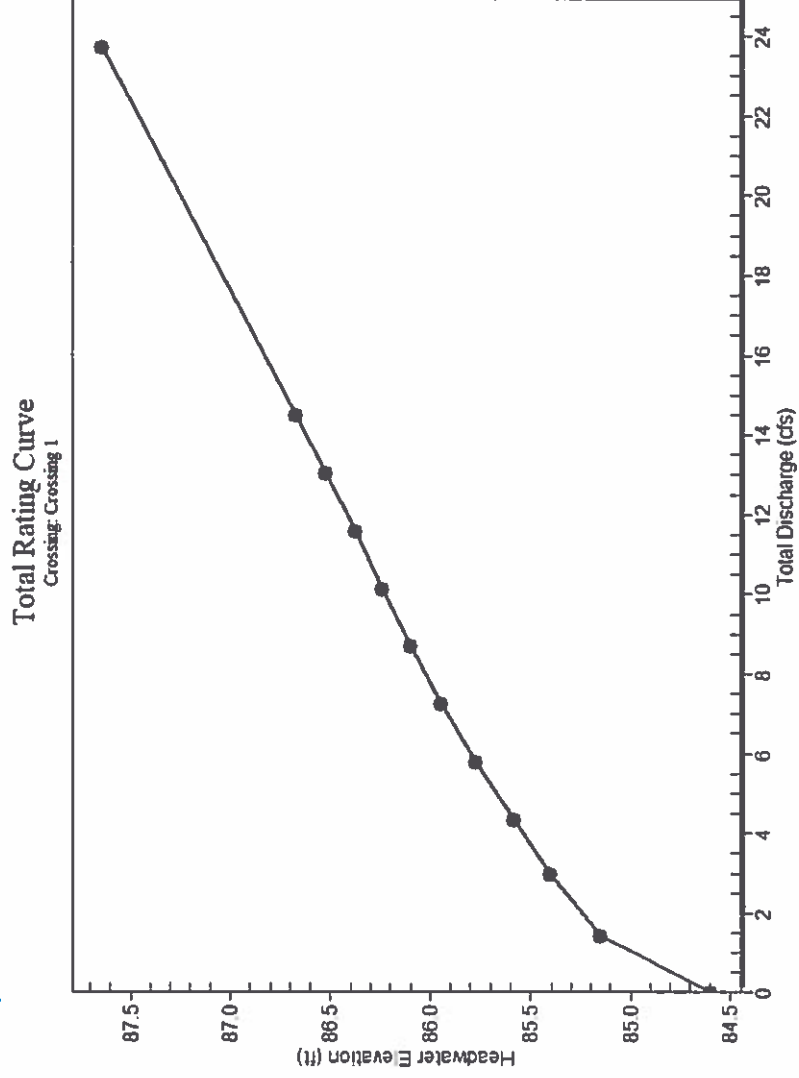
Maximum Flow: 14.50 cfs

Post Development flows  
of Area B + Area C

Table 1 - Summary of Culvert Flows at Crossing: Crossing 1

Headwater Elevation (ft)	Total Discharge (cfs)	Culvert 1 Discharge (cfs)	Roadway Discharge (cfs)	Iterations
84.60	0.00	0.00	0.00	1
85.15	1.45	1.45	0.00	1
85.40	3.00	3.00	0.00	1
85.58	4.35	4.35	0.00	1
85.77	5.80	5.80	0.00	1
85.94	7.25	7.25	0.00	1
86.09	8.70	8.70	0.00	1
86.24	10.15	10.15	0.00	1
86.38	11.60	11.60	0.00	1
86.52	13.05	13.05	0.00	1
86.67	14.50	14.50	0.00	1
87.60	21.68	21.68	0.00	Overtopping

### Rating Curve Plot for Crossing: Crossing 1



Culvert Data: Culvert 1

Table 1 - Culvert Summary Table: Culvert 1

Total Discharge (cfs)	Culvert Discharge (cfs)	Headwater Elevation (ft)	Inlet Control Depth (ft)	Outlet Control Depth (ft)	Flow Type	Normal Depth h (ft)	Critical Depth (ft)	Outlet Depth (ft)	Tailwater Depth (ft)	Outlet Velocity (ft/s)	Tailwater Velocity (ft/s)
0.00 cfs	0.00 cfs	84.60	0.00	0.000	0-NF	0.00	0.00	1.50	0.00	0.00	0.00
1.45 cfs	1.45 cfs	85.15	0.55	0.075	1-S2n	0.35	0.42	0.35	0.06	3.87	3.69
3.00 cfs	3.00 cfs	85.40	0.80	0.146	1-JS1t	0.51	0.60	1.60	0.10	1.11	4.88
4.35 cfs	4.35 cfs	85.58	0.98	0.222	1-S2n	0.61	0.73	0.61	0.12	5.32	5.62
5.80 cfs	5.80 cfs	85.77	1.17	0.322	1-JS1t	0.71	0.85	1.65	0.15	2.10	6.27
7.25 cfs	7.25 cfs	85.94	1.34	0.441	1-JS1t	0.80	0.96	1.67	0.17	2.59	6.82
8.70 cfs	8.70 cfs	86.09	1.49	0.581	1-JS1t	0.89	1.05	1.69	0.19	3.08	7.30
10.15 cfs	10.15 cfs	86.24	1.64	0.741	1-JS1t	0.97	1.14	1.70	0.20	3.56	7.73
11.60 cfs	11.60 cfs	86.38	1.78	0.921	1-JS1t	1.05	1.22	1.72	0.22	4.03	8.12
13.05 cfs	13.05 cfs	86.52	1.92	1.123	1-S2n	1.13	1.30	1.13	0.24	7.11	8.48
14.50 cfs	14.50 cfs	86.67	2.07	1.347	5-S2n	1.21	1.37	1.21	0.25	7.28	8.81

Culvert Barrel Data

Culvert Barrel Type Straight Culvert

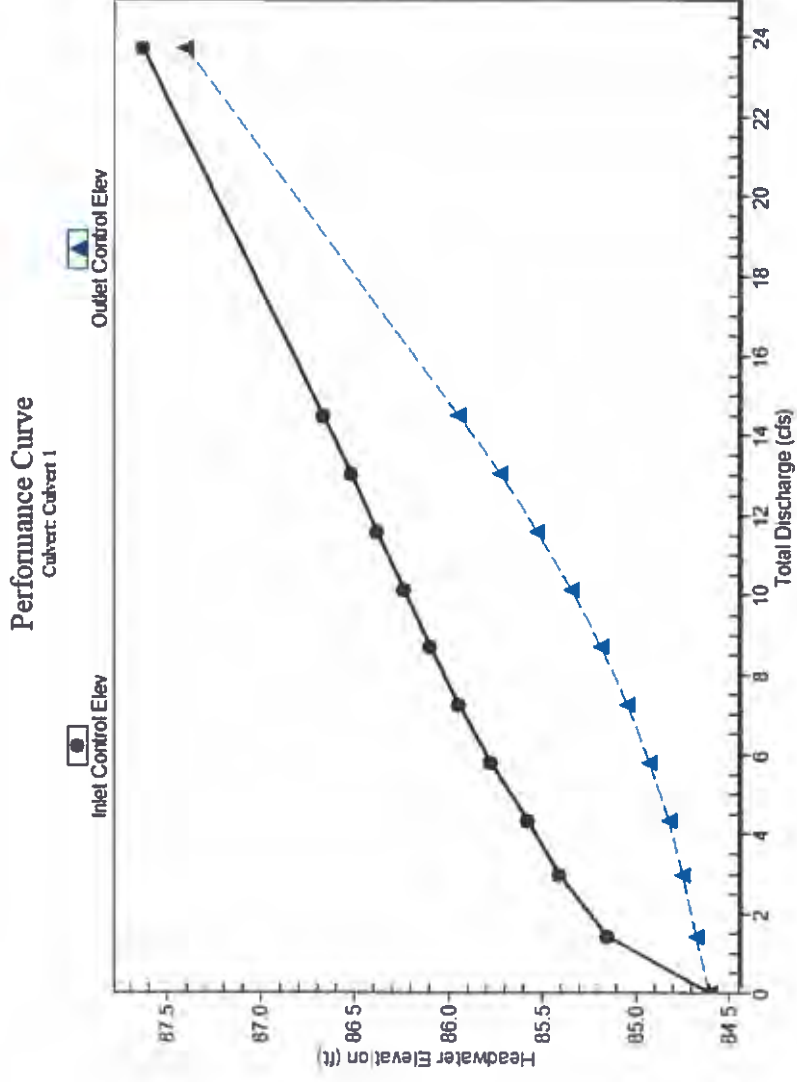
Inlet Elevation (invert): 84.60 ft,

Outlet Elevation (invert): 83.10 ft

Culvert Length: 50.02 ft,

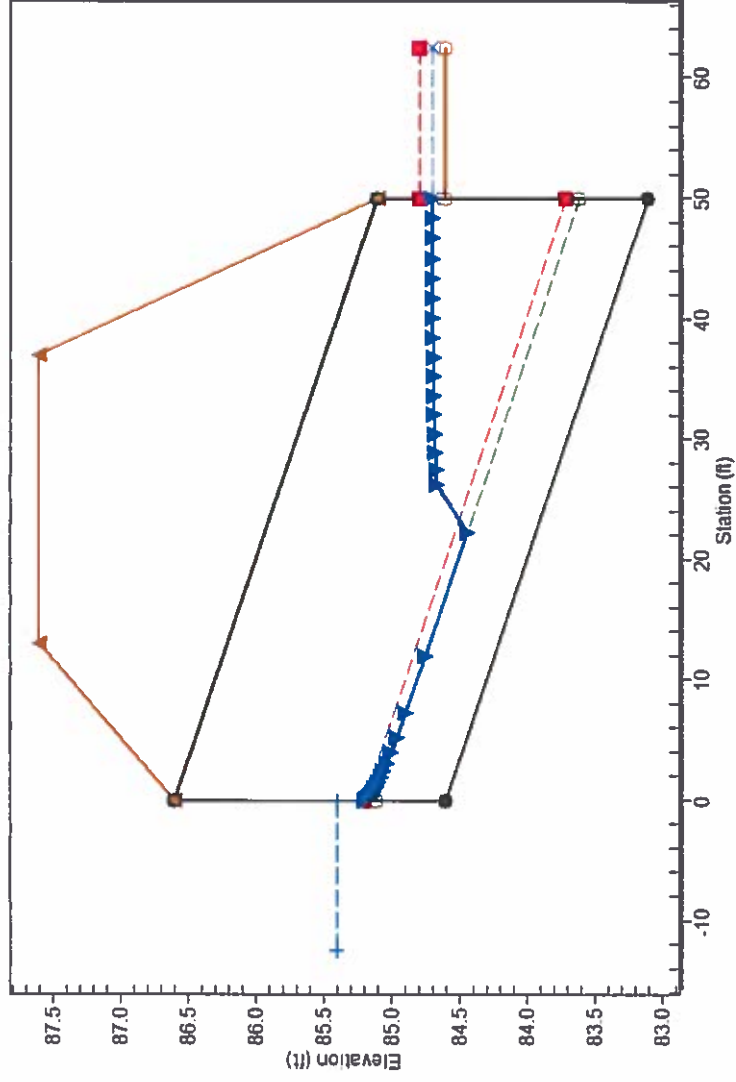
Culvert Slope: 0.0300

### Culvert Performance Curve Plot: Culvert 1



### Water Surface Profile Plot for Culvert: Culvert 1

Crossing - Crossing 1, Design Discharge - 3.0 cfs  
Culvert - Culvert 1, Culvert Discharge - 3.0 cfs



### Site Data - Culvert 1

Site Data Option: Culvert Invert Data

Inlet Station: 0.00 ft

Inlet Elevation: 84.60 ft

Outlet Station: 50.00 ft

Outlet Elevation: 83.10 ft

Number of Barrels: 1

**Culvert Data Summary - Culvert 1**

Barrel Shape: Circular

Barrel Diameter: 2.00 ft

Barrel Material: Corrugated Steel

Embedment: 0.00 in

Barrel Manning's n: 0.0240

Culvert Type: Straight

Inlet Configuration: Beveled Edge (1:1) (Ke=0.2)

Inlet Depression: None



Tailwater Data for Crossing: Crossing 1

Table 2 - Downstream Channel Rating Curve (Crossing: Crossing 1)

Flow (cfs)	Water Surface Elev (ft)	Velocity (ft/s)	Depth (ft)	Shear (psf)	Froude Number
0.00	84.60	0.00	0.00	0.00	0.00
1.45	84.66	0.06	3.69	0.12	2.60
3.00	84.70	0.10	4.88	0.19	2.77
4.35	84.72	0.12	5.62	0.23	2.87
5.80	84.75	0.15	6.27	0.28	2.95
7.25	84.77	0.17	6.82	0.31	3.01
8.70	84.79	0.19	7.30	0.35	3.06
10.15	84.80	0.20	7.73	0.38	3.11
11.60	84.82	0.22	8.12	0.42	3.14
13.05	84.84	0.24	8.48	0.45	3.17
14.50	84.85	0.25	8.81	0.47	3.20

Tailwater Channel Data - Crossing 1

Tailwater Channel Option: Trapezoidal Channel

Bottom Width: 6.00 ft

Side Slope (H:V): 2.00 (:1)

Channel Slope: 0.0300

Channel Manning's n: 0.0110

Channel Invert Elevation: 84.60 ft

### Roadway Data for Crossing: Crossing 1

Roadway Profile Shape: Constant Roadway Elevation

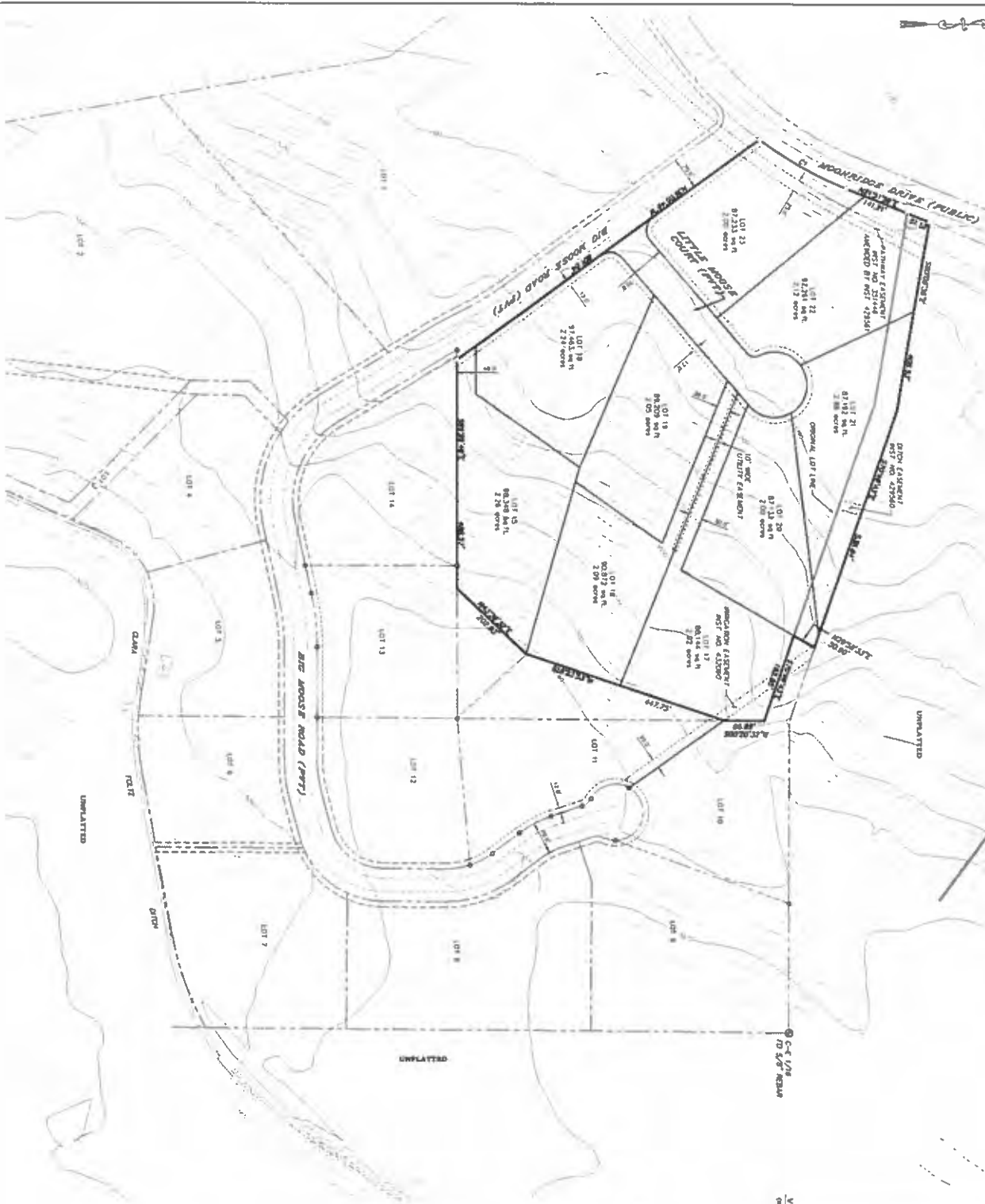
Crest Length: 100.00 ft

Crest Elevation: 87.60 ft

Roadway Surface: Gravel

Roadway Top Width: 24.00 ft

**DRAWINGS**  
**Preliminary Plat**



Calculated Position, the above or found

Found 1/7 Birch net  
found 3/8 inch net

[illegible]

OWNER

5000  
 5000  
 5000

<b>PROJECT DATA</b>	
TOTAL ACQUISITION	76.79 Acc.
AS OF APRIL 1, 1987    \$ 100,000.00 IN FULL PAID & CASH	

ACCESS TO THE  
BENTLEY

[illegible]

### GENERAL NOTES

1. By using fluid in an existing pipe's upper- and lower portions, the team was able to... (see article)

2. After House Court and its associated right-of-way is completed, shall be subject to the same rules and regulations as the other streets in the area.

submitted by the State when Agents Receive the  
Answers as provided in the Declaration of the  
respondent as indicated by \_\_\_\_\_

[illegible]

3. All ratings in this field are displayed in a

100114  
# Please I only want to say that we got 72  
Four 100114 1001

Effective February 1, 2018  
 Email: [info@nrc.ca](mailto:info@nrc.ca)  
 Web: [www.nrc.ca](http://www.nrc.ca)

within a day or two of the receipt of the letter. The letter is of the Valley Council Case.

7. The output capacity should be continuously monitored according to the level of service for a period, the level of service can be changed.

It also must be subject to the Director's approval. Currently, Congress requires a majority for these new Social Security provisions.

Director, Office of the Secretary of the Treasury, Washington, D.C.

By becoming a list in the last section, scientists that no/you/it for eliminate the wrong/you that, the problem is the same. It's not the same as the same.

**The Declaration of Antitrust Compliance**

game's right to engage in the sport from within the boundaries of law on the sidewalk, regardless of whether that law/line has received their

applying and submitting for a grant to help pay for the purchase of a new truck. The truck is needed to transport the equipment and materials for the project.

CURVE TABLE

CURVE	LENGTH	RADIUS	OFFSPRING
C1	714.29	415.00	1223.7173

**Declarations of interest:**  
 No competing financial interests were declared by the authors.

observations and practices he found by applying his theory of learning to the study of the history of learning and teaching.

Dept. of Reg. & Gen. Inv. Services  
 c/o Mr. Joe A. Smith  
 Dept. of Reg. & Gen. Inv. Services  
 c/o Mr. Joe A. Smith

CURVE TABLE			
CURVE	LENGTH	RADIUS	CHORD
CT	714.39	431.60	422.71

**Exercises/Assignments**

Marquies edition based on the 1846 edition, which had 1,000 copies printed. The 1846 edition was printed by the Marquies Press, which was founded by the Marquies of Blandford. The 1846 edition was printed by the Marquies Press, which was founded by the Marquies of Blandford.

the period following and are in it's survey April  
Return to Dept of State, New South Subdivision, Box 14,  
and mail box 413271.

Approved for Release by NSA on 08-25-2013 pursuant to E.O. 13526

NO.	REVISIONS	DATE

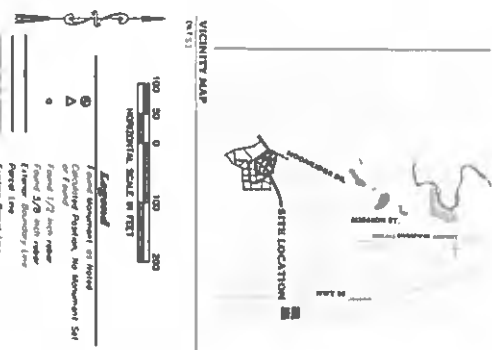
**PRELIMINARY PLAT  
for  
MOON VIEW RANCH SUBDIVISION PHASE 2**


**LOCATED IN SECTION 29 AND A PORTION OF  
MOON VIEW RANCH SUBDIVISION ,  
T. 18 N., R. 3 E., B.M.,  
VALLEY COUNTY, IDAHO**

**Bowers Land Surveys, Inc.**

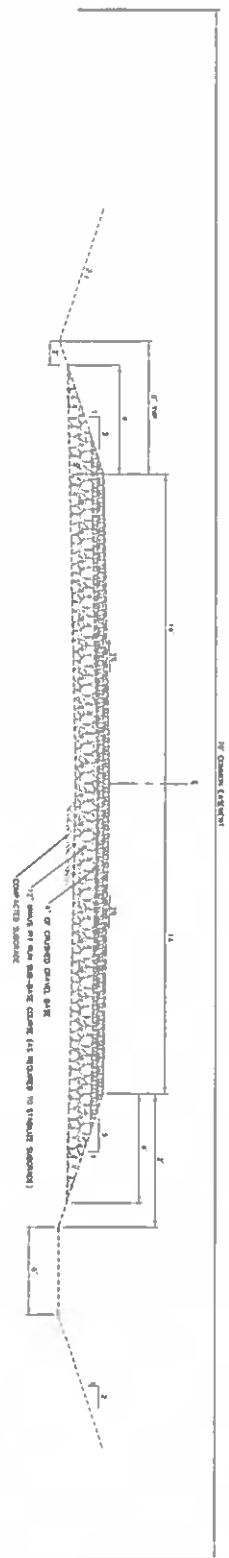


**DRAWINGS**  
**Preliminary Plans**

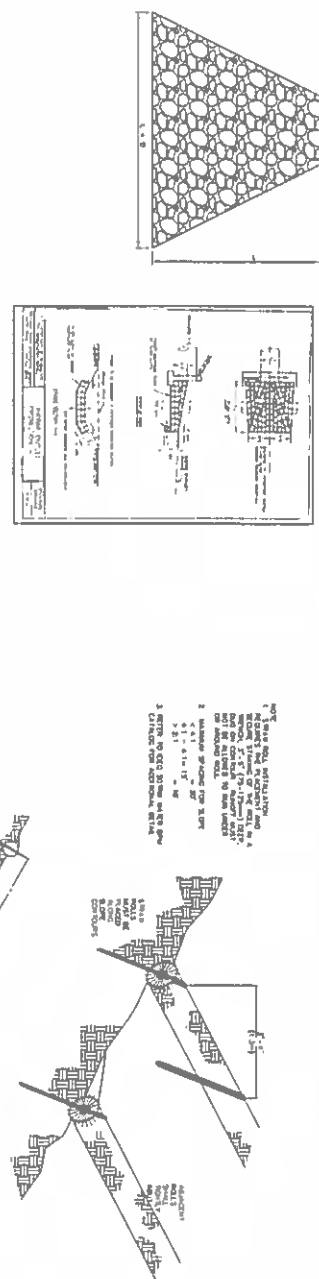


C1.0	DATE P.M. 10 10 10	SHEET NO.	NO.	REVISIONS	DATE	SITE GRADING AND DRAINAGE PLAN for MOON VIEW RANCH SUBDIVISION PHASE 2	Bowers Land Surveys, Inc.	

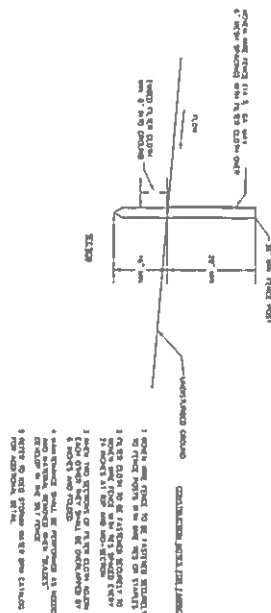
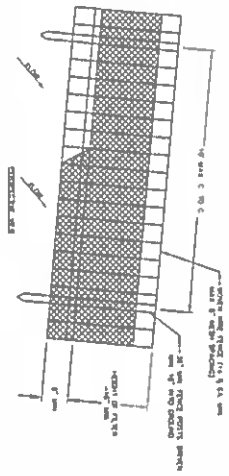
TYPICAL PRIVATE ROAD SECTION



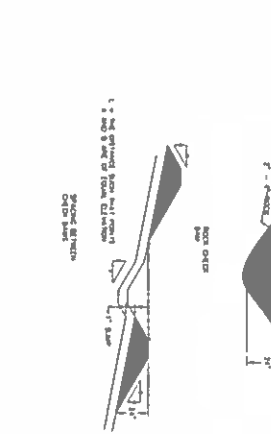
STRAW ROLL DETAIL



CULVERT OUTLET EROSION PROTECTION (PERMANENT)



1. 12' wide concrete curb on left side of road.
2. 12' wide road surface.
3. 12' wide shoulder on right side of road.
4. 4' base layer.
5. 4' top layer.



1. 12' wide concrete curb on left side of road.
2. 12' wide road surface.
3. 12' wide shoulder on right side of road.
4. 4' base layer.
5. 4' top layer.

ROADWAY NOTES

1. All road construction shall be in accordance with the City of...
2. All road construction shall be in accordance with the City of...
3. All road construction shall be in accordance with the City of...
4. All road construction shall be in accordance with the City of...
5. All road construction shall be in accordance with the City of...
6. All road construction shall be in accordance with the City of...
7. All road construction shall be in accordance with the City of...
8. All road construction shall be in accordance with the City of...
9. All road construction shall be in accordance with the City of...
10. All road construction shall be in accordance with the City of...

GENERAL NOTES

1. All road construction shall be in accordance with the City of...
2. All road construction shall be in accordance with the City of...
3. All road construction shall be in accordance with the City of...
4. All road construction shall be in accordance with the City of...
5. All road construction shall be in accordance with the City of...
6. All road construction shall be in accordance with the City of...
7. All road construction shall be in accordance with the City of...
8. All road construction shall be in accordance with the City of...
9. All road construction shall be in accordance with the City of...
10. All road construction shall be in accordance with the City of...

BEST MANAGEMENT PRACTICES

1. Best Management Practices shall be in accordance with the City of...
2. Best Management Practices shall be in accordance with the City of...
3. Best Management Practices shall be in accordance with the City of...
4. Best Management Practices shall be in accordance with the City of...
5. Best Management Practices shall be in accordance with the City of...
6. Best Management Practices shall be in accordance with the City of...
7. Best Management Practices shall be in accordance with the City of...
8. Best Management Practices shall be in accordance with the City of...
9. Best Management Practices shall be in accordance with the City of...
10. Best Management Practices shall be in accordance with the City of...

ADDITIONAL ROAD WIDTH OF HORIZONTAL CURVES

Radius	1-1/2' offset	1-1/2' offset
100'	3' 0"	3' 0"
150'	3' 0"	3' 0"
200'	3' 0"	3' 0"
250'	3' 0"	3' 0"
300'	3' 0"	3' 0"
350'	3' 0"	3' 0"
400'	3' 0"	3' 0"
450'	3' 0"	3' 0"
500'	3' 0"	3' 0"
550'	3' 0"	3' 0"
600'	3' 0"	3' 0"
650'	3' 0"	3' 0"
700'	3' 0"	3' 0"
750'	3' 0"	3' 0"
800'	3' 0"	3' 0"
850'	3' 0"	3' 0"
900'	3' 0"	3' 0"
950'	3' 0"	3' 0"
1000'	3' 0"	3' 0"

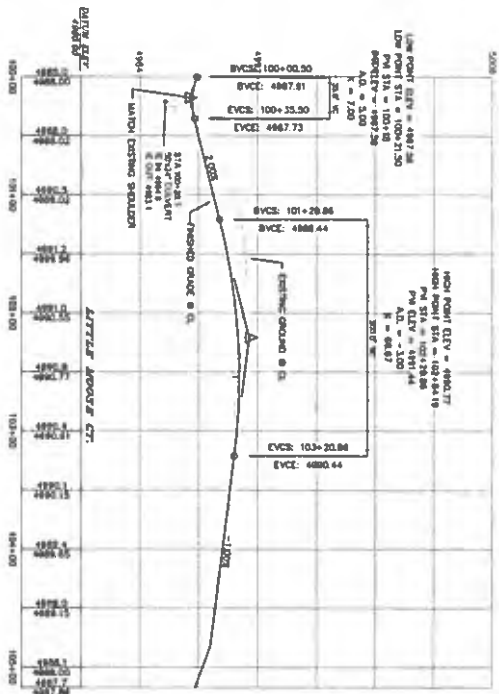
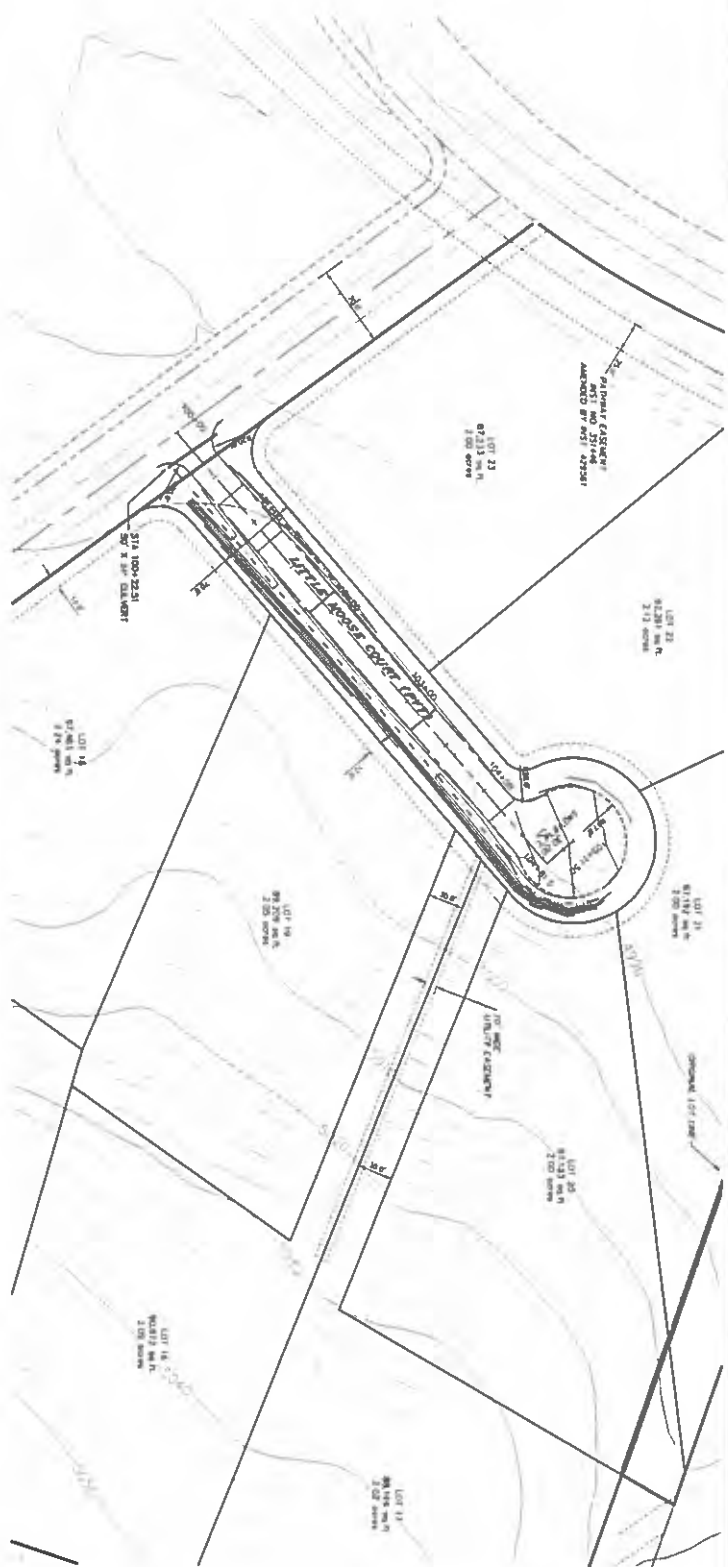
REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

**SITE GRADING AND DRAINAGE PLAN**  
for  
**MOON VIEW RANCH SUBDIVISION PHASE 2**

**DETAILS AND NOTES**

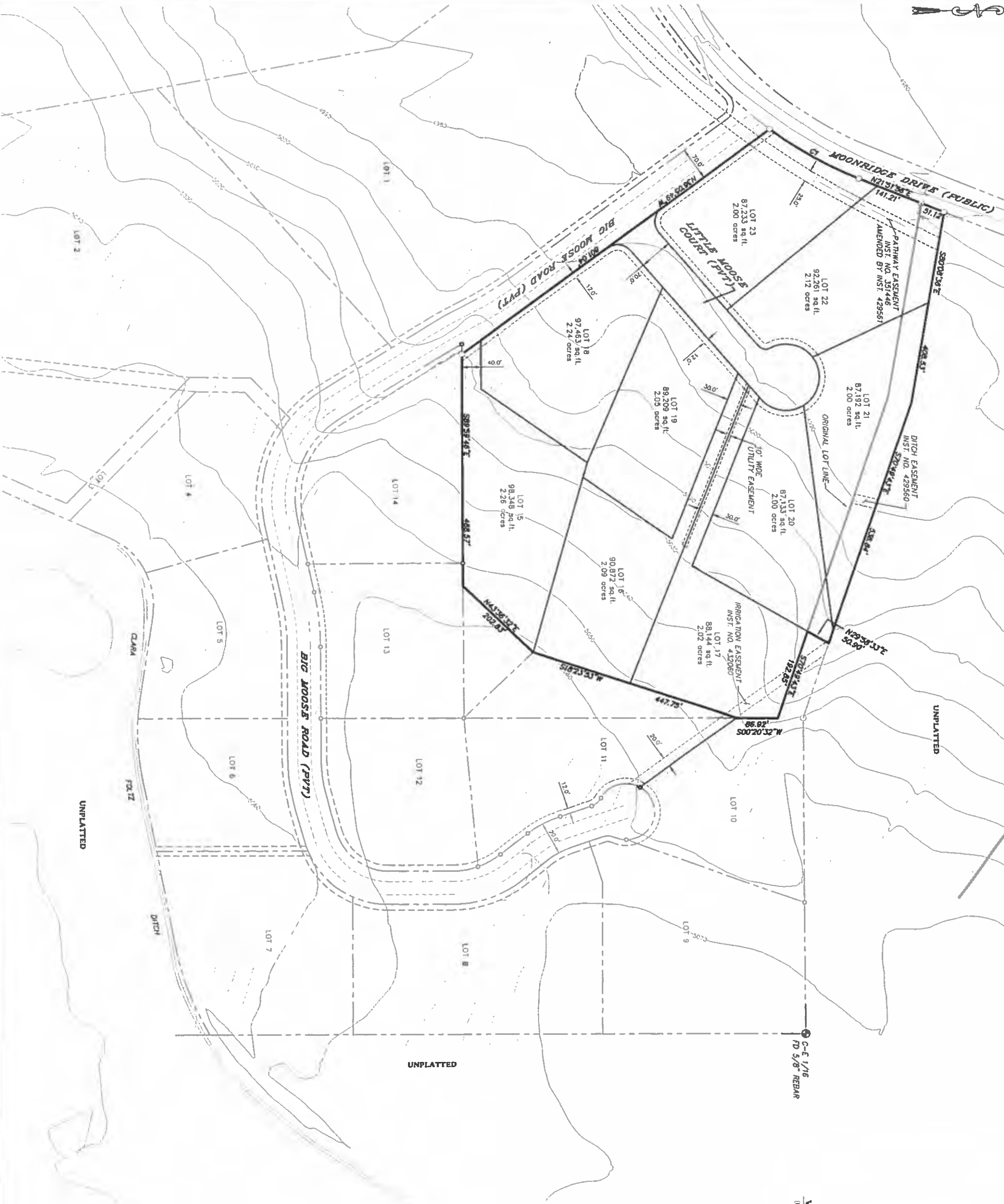
**Bowers Land Surveys, Inc.**



REVISIONS		DATE	SITE GRADING AND DRAINAGE PLAN for MOON VIEW RANCH SUBDIVISION PHASE 2		Bowers Land Surveys, Inc.	
NO.						
DRAFT P.M. C.D. C.D.			LITTLE MOOSE COURT			
SHEET NO. C2.0						







VICINITY MAP  
(N.T.S.)



**Legend**

○	Found Monument as Noted
△	Calculated Position, No Monument Set or Found
○	Found 1/2 inch rebar
○	Found 5/8 inch rebar
---	Exterior Boundary Line
---	Parcel Line
---	Existing Parcel Line
---	Easement Line

**OWNER**  
DUMERS, LLC  
PO BOX 710  
MCALL, ID 83438

**PROJECT DATA**  
TOTAL ACRES : 19.78 AC  
BLANDABLE LOTS: 9 NEW LOTS IN PHASE 2, AND  
ACCESS TO LOTS 9 WILL BE ACCESSED FROM LITTLE MOOSE COURT  
8 NEW LOTS WILL BE ACCESSED FROM BIG MOOSE ROAD  
1 LOT WILL BE ACCESSED FROM BIG MOOSE ROAD  
ACREAGE OF NEW RIGHT-OF-WAY: 1.00 AC  
TOTAL LENGTH OF ROADS: 485 FEET

- GENERAL NOTES**
1. Big Moose Road is an existing private right-of-way, owned and maintained by Private Road Dedication, Instrument Number 452574.
  2. Little Moose Court and its depicted right-of-way is private, and after completion, shall be owned and maintained by the Homeowners Association of the Valley Ranch Subdivision, as provided in the Declaration of Private Roads recorded as Instrument No. \_\_\_\_\_.
  3. No Lots shall be accessed from Moonridge Drive.
  4. Utilities will be completed as provided in the Declaration of Installation of Utilities, recorded as Instrument No. \_\_\_\_\_.
  5. All utilities on this Plat are dedicated to Public Utilities.
  6. Flood Zones shown on this Plat are per FEMA FIRM Panel 16085C 1001, Effective February 1, 2019.  
Flood Zone Category: N/A  
Flood Zone Elevation: N/A  
Flood Zones are subject to change by FEMA and all land within a Floodway or Floodplain is regulated by Title 9 and Title 11 of the Valley County Code.
  7. 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.
  8. All Lots shall be subject to the Declaration of Protective Covenants, Conditions, Restrictions and Subdivision Phase 2, the Articles of Incorporation of the Moon View Ranch Phase 2 Property Owners Association, all as recorded with the Office of the Recorder of Valley County, Idaho as Instrument Nos. By purchasing a Lot in the Subdivision, the purchaser acknowledges that he/she/it has reviewed these documents and understands that, as owner, they and their guests, invitees and assigns will be bound by them.
  9. The Declaration of Protective Covenants, Conditions, Restrictions and Subdivision Phase 2, contains certain restrictions on a Lot owner's right to engage in the short term rental of a Lot. By purchasing a Lot in the Subdivision, the purchaser acknowledges that he/she/it has reviewed these restrictions and understands that, as owner, they and their guests, invitees and assigns will be bound by them.
  10. No rights to irrigation water shall be conveyed with any of the Lots.

**CURVE TABLE**

CURVE	LENGTH	RADIUS	BEARING	CHORD
C1	214.29	833.00	N281°01'E	213.70

**Horizontal Datum**  
Horizontal datum based on Idaho State Plane, Idaho West Zone 1101. Coordinates were derived from GPS observations and projected to ground by applying a scale factor of 1.000003952 to GPS station distances and ground distances and are in U.S. survey feet.  
Refer to Plat of Moon View Ranch Subdivision, Bk. 14, Pg. 68, Int'l. No. 432673  
Refer to RDS Bk. 14, Pg.23, Int'l. No. 309623

**PRELIMINARY PLAT**  
for  
**MOON VIEW RANCH SUBDIVISION PHASE 2**  
LOCATED IN SECTION 29 AND A PORTION OF  
MOON VIEW RANCH SUBDIVISION ,  
T. 18 N., R. 3 E., B.M.,  
VALLEY COUNTY, IDAHO

**Bowers Land Surveys, Inc.**

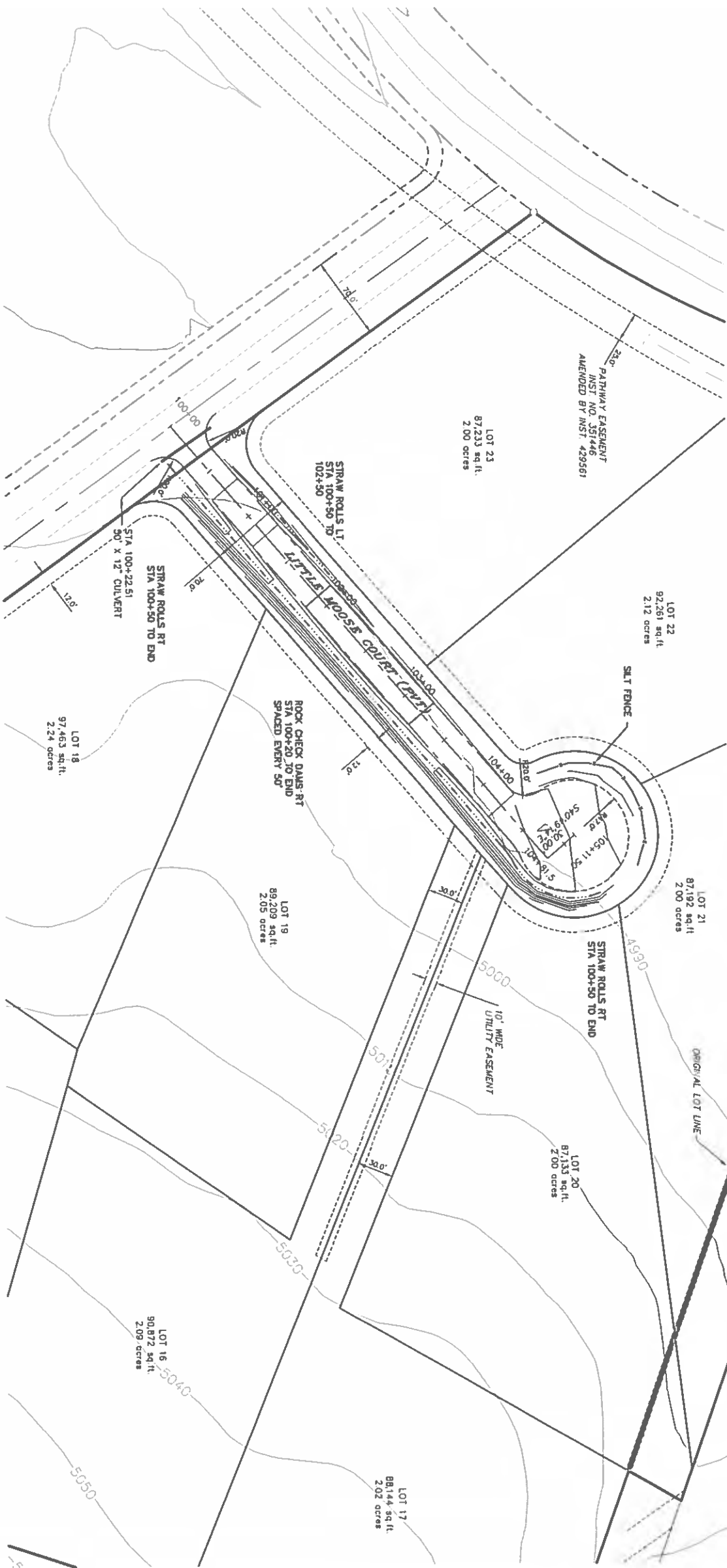


NO.	REVISIONS	DATE

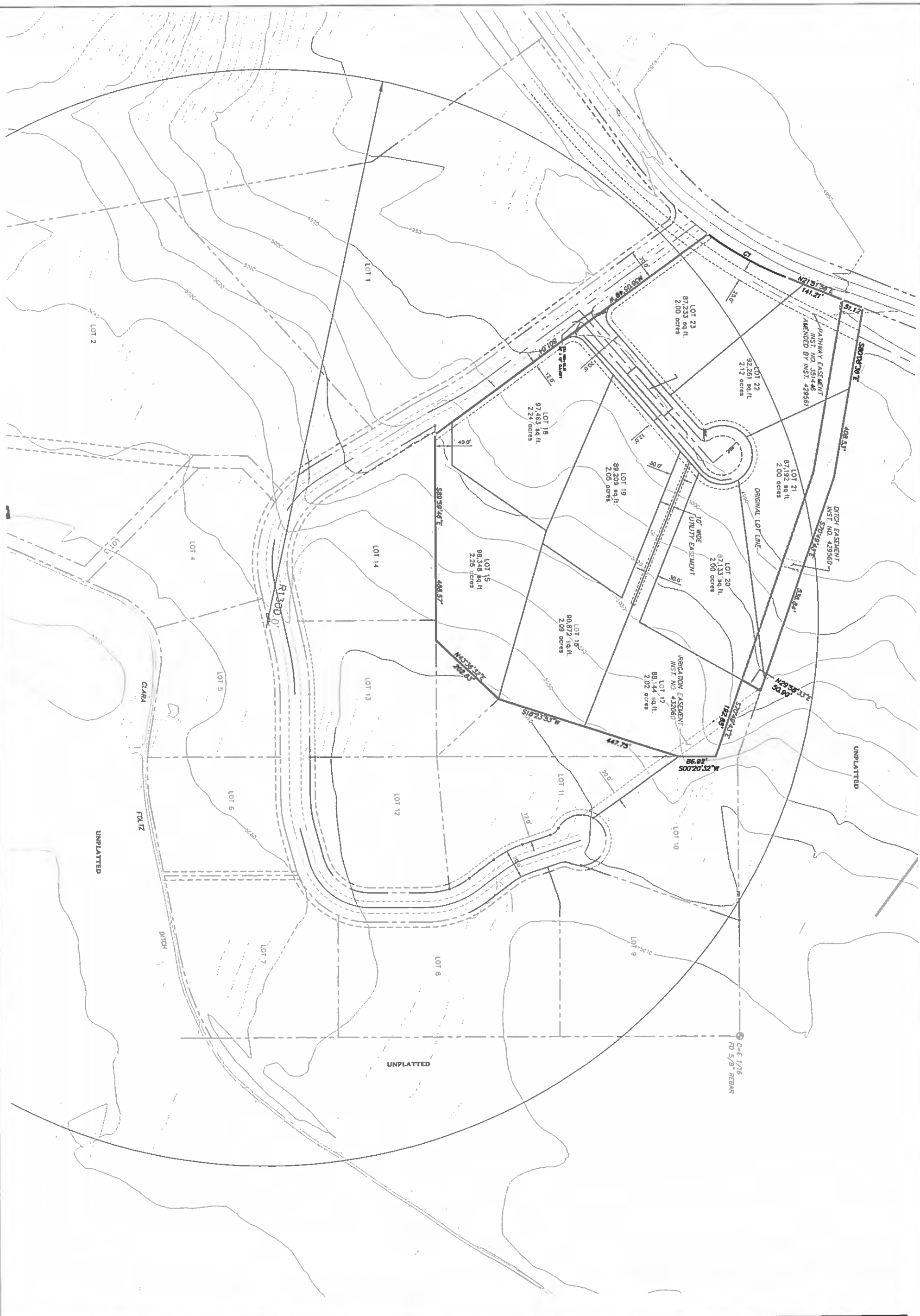
DATE	P.M.
4/16/23	CB
P.N.	CAD
12001	
SHEET NO.	
SHEET 1 OF 1	







NO.		REVISIONS	DATE	SITE GRADING AND DRAINAGE PLAN for MOON VIEW RANCH SUBDIVISION PHASE 2		SWPPP		Bowers Land Surveys, Inc.		PROFESSIONAL LAND SURVEYOR STATE OF TEXAS 13549 BOWERS LAND SURVEYS, INC.	
DATE	4/16/23	P.M.									
P.N.	21001	CAD									
SHEET NO. C3.0 SWPPP											



MOON VIEW RANCH SUBDIVISION PHASE 2		Bowers Land Surveys, Inc.		
FIRE TANK				
NO.	REVISIONS	DATE		
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				
61				
62				
63				
64				
65				
66				
67				
68				
69				
70				
71				
72				
73				
74				
75				
76				
77				
78				
79				
80				
81				
82				
83				
84				
85				
86				
87				
88				
89				
90				
91				
92				
93				
94				
95				
96				
97				
98				
99				
100				
101				
102				
103				
104				
105				
106				
107				
108				
109				
110				
111				
112				
113				
114				
115				
116				
117				
118				
119				
120				
121				
122				
123				
124				
125				
126				
127				
128				
129				
130				
131				
132				
133				
134				
135				
136				
137				
138				
139				
140				
141				
142				
143				
144				
145				
146				
147				
148				
149				
150				
151				
152				
153				
154				
155				
156				
157				
158				
159				
160				
161				
162				
163				
164				
165				
166				
167				
168				
169				
170				
171				
172				
173				
174				
175				
176				
177				
178				
179				
180				
181				
182				
183				
184				
185				
186				
187				
188				
189				
190				
191				
192				
193				
194				
195				
196				
197				
198				
199				
200				
201				
202				
203				
204				
205				
206				
207				
208				
209				
210				
211				
212				
213				
214				
215				
216				
217				
218				
219				
220				
221				
222				
223				
224				
225				
226				
227				
228				
229				
230				
231				
232				
233				
234				
235				
236				
237				
238				
239				
240				
241				
242				
243				
244				
245				
246				
247				
248				
249				
250				
251				
252				
253				
254				
255				
256				
257				
258				
259				
260				
261				
262				
263				
264				
265				
266				
267				
268				
269				
270				
271				
272				
273				
274				
275				
276				
277				
278				
279				
280				
281				
282				
283				
284				
285				
286				
287				
288				
289				
290				
291				
292				
293				
294				
295				
296				
297				
298				
299				
300				
301				
302				
303				
304				
305				
306				
307				
308				
309				
310				
311				
312				
313				
314				
315				
316				
317				
318				
319				
320				
321				
322				
323				
324				
325				
326				
327				
328				
329				
330				
331				
332				
333				
334				
335				
336				
337				
338				
339				
340				
341				
342				
343				
344				
345				
346				
347				
348				
349				
350				
351				
352				
353				
354				
355				
356				
357				
358				
359				
360				
361				
362				
363				
364				
365				
366				
367				
368				
369				
370				
371				
372				
373				
374				
375				
376				
377				
378				
379				
380				
381				
382				
383				
384				
385				
386				
387				
388				
389				
390				
391				
392				
393				
394				
395				
396				
397				
398				
399				
400				
401				
402				
403				
404				
405				
406				
407				
408				



