General Notes:

All public improvements were constructed and tested in accordance with the latest edition of the Lakeside County Water & Sewer District Service Standards, May 1997 Edition, Circular DEQ2, Design Standards for Wastewater Facilities from the Montana Department of Environmental Quality, and the latest edition of the Montana Public Works Standard Specifications.

All elevations used for infrastructure work shall be based on the NAVD 1988.

General Legend

)
	Property Line
	Contour Line
<u>'////////.</u>	Building Wall
5	Sanitary Sewer Service
FM	Sanitary Sewer Force Main
w	Water Service / Water Mai

Sanitary Sewer Collection System Notes:

I. Each dwelling shall be connected to a 4" \emptyset Sch 40 PVC gravity lateral line for the purpose of sanitary sewer collection. Where two services come together, the line shall be increased to a 6" \emptyset Sch 40 PVC gravity lateral line. The 4" \emptyset lateral shall have a minimum slope of $\frac{1}{4}$ " per foot and the 6" lateral shall have a minimum slope of 0.6%. 2. The 6" sanitary sewer lateral shall terminate at the E/One grinder pump station, as per manufacturer's specifications.

Sanitary Sewer Force Main System:

I. This system shall utilize pre-packaged E/One type grinder pump lift stations. The design is based upon the Low Pressure Sewer Systems Using Environment One Grinder Pumps, which can be obtained at http://www.eone.com/sewer_systems/products/low_pressure_system.htm as a downloadable pdf file.

2. The system is broken into an east and west section, each of which has a duplex type grinder pump assembly. The calculated maximum pressure loss in the proposed on-site force main system is 22 psi. The pressure required to work on the Lakeside Force Main is 30 psi according to information provided by the Lakeside Water and Sewer District. Therefore, the pump, which can generate 60 psi, has sufficient head to work on the existing system.

3. The pumps shall be wired in a duplex fashion, and utilize the E/One Sentry alarm and control panel. This panel has a visual alarm, and the ability to install remote alarms in each of the residential structures that are served by the grinder pump.

4. The grinder pumps shall be owned and maintained by the homeowner's association.

5. Manufacturer's information is attached which include: Pump curve table, Pump chamber drawing and specifications, Pump chamber installation drawing, Sentry control/alarm panel information, Sentry control/alarm panel specifications, & Spreadsheet calculating force main system losses.

Sewer Sheet Index

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Sheet SI
Sheet S2Collection Laterals Plan & Profile View
Sheet S3Collection Laterals Plan & Profile View
Sheet S4Presurized Forc
Sheet S5Presurized Forc
Sheet SG



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Water Main / Sewer Main Crossing Note:

Were water mains cross sewer mains, conractor shall lay them provide a minimum vertical distance of eighteen inches between the outside of the water main and the outside of the sewer. This shall be the case where the water main is either above or below the sewer at the crossings. One full length of water pipe shall be located so both joints will be as far from the sewer as possible. Sewer main joints shall be located so both joints will be as far from the water as possible.

General Leaend

General Leo	jena .
	Property Line
	Contour Line
<u>'////////</u> .	Building Wall
5	Sanitary Sewer Service
FM	Sanitary Sewer Force Main
w	Water Service / Water Main



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STATE OF MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION 1424 9TH AVENUE P.O.BOX 201601 HELENA, MONTANA 59620-1601

GENERAL ABSTRACT

Water Right Number:	76LJ 30065	735 PROV	ISION	AL PER	MIT	
	Version: 1	ORIGINAL	RIGH	Т		
Owners:	V LANDING A 5585 US HV SOMERS, N	ersion Status T SOMERS VY 93 //T 59932	: acti Bay Li	√E ₋C		
Priority Date:	MARCH 11,	2013 at 04:4	5 P.M.			
Enforceable Priori	ty Date: MA	RCH 11, 201	3 at 04	45 P.M		
Purpose (use):	MULTIPLE I	DOMESTIC				
Maximum Flow Rate:	50.00 GPM					
Maximum Volume:	6.05 AC-FT					
Source Name:	GROUNDW	ATER				
Source Type:	GROUN	DWATER				
Point of Diversion and M	eans of Divers	ion:				
<u>ID</u> 1	Govt Lot	<u>Qtr Sec</u> N2SWNW	<u>Sec</u> 26	<u>Twp</u> 27N	<u>Rge</u> 21W	<u>County</u> FLATHEAD
Period of Diversion	JANUARY 1	TO DECEM	BER 3	1		Flow Rate: 50.00 GPM
Diversion Means:	WELL					A NOW ARREL.
Well Depth:	386.00 FEE	Г				
Static Water Level	: 31.00 FEET	-				
Casing Diameter:	0.00 INCHES	5	16/22/04/12			
2		N2SWNW	26	27N	21W	FLATHEAD
Period of Diversion	: JANUARY 1	TO DECEMI	BER 31			Flow Rate: 50.00 GPM
Diversion Means:	WELL					
Well Depth: Static Water Lovel	298.00 FEET					
Casing Diameter:	8.00 INCHES	\$				
	POINTS OF	DIVERSION	ARE IN	LOT 2	OF TH	E LANDING AT SOMERS BAY
Purpose (Use): Households: Volume:	MULTIPLE D 12 6.05 AC-FT	OMESTIC				
Period of Use:	JANUARY 1	to DECEMBI	ER 31			
Place of Use:						
<u>ID</u> <u>Acres</u> 1	<u>Govt Lot</u>	<u>Qtr Sec</u> N2SWNW	<u>Sec</u> 26	<u>Twp</u> 27N	<u>Rge</u> 21W	County FLATHEAD
	PLACE OF U	SE IS THE L	ANDIN	G AT S	OMER	S BAY SUBDIVISON
Geocodes/Valid:	- NO VALID O	SEOCODES				

Remarks:

Remarks:

ASSOCIATED RIGHT

THIS WATER RIGHT IS ASSOCIATED WITH 76LJ 30065736; THEY SHARE THE SAME PLACE OF USE

CLARK FORK RIVER BASIN LAW

THIS PROVISIONAL WATER USE PERMIT HAS A PRIORITY DATE THAT IS JUNIOR TO THE RIGHTS OF SENIOR WATER RIGHT HOLDERS IN THE CLARK FORK RIVER BASIN. IN ACCORDANCE WITH MONTANA LAW, YOU MAY BE SUBJECT TO A CALL BY SENIOR WATER RIGHT HOLDERS, IN WHICH CASE YOU MAY BE REQUIRED TO DISCONTINUE YOUR USE OF WATER FOR THE PERIOD OF THE CALL.

CONFEDERATED SALISH AND KOOTENAI TRIBES - RESERVED WATER RIGHTS

THIS RIGHT IS SUBJECT TO ALL PRIOR INDIAN RESERVED WATER RIGHTS OF THE CONFEDERATED SALISH AND KOOTENAI TRIBES IN THE SOURCE OF SUPPLY. IT IS THE TRIBE'S POSITION THAT THE EXERCISE OF JUNIOR WATER RIGHTS EITHER WITHIN OR OUTSIDE OF THE EXTERIOR BOUNDARIES OF THE FLATHEAD INDIAN RESERVATION MAY AFFECT THE RESERVED WATER RIGHTS OF THE TRIBE WITHIN THE EXTERIOR BOUNDARIES OF THE RESERVATION. IT IS THE TRIBE'S POSITION THAT ECONOMIC INVESTMENTS MADE IN RELIANCE UPON THIS RIGHT DO NOT CREATE IN THE APPROPRIATOR ANY EQUITY OR VESTED RIGHT AGAINST THE TRIBES. THE APPROPRIATOR IS HEREBY NOTIFIED THAT ANY FINANCIAL OUTLAY OR WORK INVESTED IN A PROJECT PURSUANT TO THIS RIGHT IS AT APPROPRIATOR'S RISK. THE ISSUANCE OF THIS RIGHT DOES NOT REDUCE THE APPROPRIATOR'S LIABILITY FOR DAMAGE CAUSED BY THE EXERCISE OF THE RIGHT. IT DOES NOT MAKE THE DEPARTMENT LIABLE FOR ANY LOSS TO THE APPROPRIATOR CAUSED BY THE EXERCISE OF SENIOR RESERVED WATER RIGHTS.

WATER MEASUREMENT-INLINE FLOW METER REQUIRED

THE APPROPRIATOR SHALL INSTALL A DEPARTMENT APPROVED IN-LINE FLOW METER AT A POINT IN THE DELIVERY LINE APPROVED BY THE DEPARTMENT. WATER MUST NOT BE DIVERTED UNTIL THE REQUIRED MEASURING DEVICE IS IN PLACE AND OPERATING. ON A FORM PROVIDED BY THE DEPARTMENT, THE APPROPRIATOR SHALL KEEP A WRITTEN MONTHLY RECORD OF THE FLOW RATE AND VOLUME OF ALL WATER DIVERTED, INCLUDING THE PERIOD OF TIME. RECORDS SHALL BE SUBMITTED BY JANUARY 31 OF EACH YEAR AND UPON REQUEST AT OTHER TIMES DURING THE YEAR. FAILURE TO SUBMIT REPORTS MAY BE CAUSE FOR REVOCATION OF A PERMIT OR CHANGE. THE RECORDS MUST BE SENT TO THE WATER RESOURCES REGIONAL OFFICE. THE APPROPRIATOR SHALL MAINTAIN THE MEASURING DEVICE SO IT ALWAYS OPERATES PROPERLY AND MEASURES FLOW RATE AND VOLUME ACCURATELY.

Page 1 of 1 General Abstract

STATE OF MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION 1424 9TH AVENUE P.O.BOX 201601 HELENA, MONTANA 59620-1601

GENERAL ABSTRACT

Water Right Number:	76LJ 30065736 GROUND WATER CERTIFICATE Version: 1 ORIGINAL RIGHT
Owners:	Version Status: ACTIVE LANDING AT SOMERS BAY LLC 5585 US HWY 93 SOMERS, MT 59932
Priority Date:	MARCH 11, 2013 at 04:45 P.M.
Enforceable Priori	ty Date: MARCH 11, 2013 at 04:45 P.M.
Purpose (use): Maximum Flow Rate:	LAWN AND GARDEN 35.00 GPM
Maximum Volume:	5.00 AC-FT
Maximum Acres:	2.00
Source Name:	GROUNDWATER
Source Type:	GROUNDWATER
Point of Diversion and M	eans of Diversion:
<u>ID</u> 1	Govt Lot Qtr Sec Sec Twp Rge County N2SWNW 26 27N 21W FLATHEAD
Period of Diversion Diversion Means: Well Depth: Static Water Level:	I: APRIL 1 TO OCTOBER 31 Flow Rate: 35.00 GPM WELL 202.00 FEET 37.00 FEET
Casing Diameter:	12.00 INCHES
Casing Diameter: Purpose (Use): Volume:	12.00 INCHES LAWN AND GARDEN 5.00 AC-FT
Casing Diameter: Purpose (Use): Volume: Period of Use:	12.00 INCHES LAWN AND GARDEN 5.00 AC-FT APRIL 1 to OCTOBER 31
Casing Diameter: Purpose (Use): Volume: Period of Use: Place of Use: <u>ID</u> <u>Acres</u> 1 2.00 Total: 2.00	12.00 INCHES LAWN AND GARDEN 5.00 AC-FT APRIL 1 to OCTOBER 31 Govt Lot Qtr Sec N2SWNW 26 27N 21W FLATHEAD
Casing Diameter: Purpose (Use): Volume: Period of Use: Place of Use: <u>ID Acres</u> 1 2.00 Total: 2.00 Geocodes/Valid:	27.00 FEET 12.00 INCHES LAWN AND GARDEN 5.00 AC-FT APRIL 1 to OCTOBER 31 Govt Lot Qtr Sec N2SWNW 26 Twp Rge County FLATHEAD 07-3834-26-2-08-02-0000 - Y
Casing Diameter: Purpose (Use): Volume: Period of Use: Place of Use: <u>ID</u> <u>Acres</u> 1 2.00 Total: 2.00 Geocodes/Valid:	27.00 FEET 12.00 INCHES LAWN AND GARDEN 5.00 AC-FT APRIL 1 to OCTOBER 31 Govt Lot Qtr Sec N2SWNW 26 Twp Rge County FLATHEAD 07-3834-26-2-08-02-0000 - Y 07-3834-26-2-08-04-0000 - Y 07-3834-26-2-08-05-0000 - Y
Casing Diameter: Purpose (Use): Volume: Period of Use: Place of Use: <u>ID</u> <u>Acres</u> 1 2.00 Total: 2.00 Geocodes/Valid:	27.00 FEET 12.00 INCHES LAWN AND GARDEN 5.00 AC-FT APRIL 1 to OCTOBER 31 Govt Lot Qtr Sec N2SWNW 26 27N Rge County PT-3834-26-2-08-02-0000 - Y 07-3834-26-2-08-04-0000 - Y 07-3834-26-2-08-04-0000 - Y 07-3834-26-2-08-06-0000 - Y 07-3834-26-2-08-06-0000 - Y

Remarks:

ASSOCIATED RIGHT

THIS WATER RIGHT IS ASSOCIATED WITH WATER RIGHT 76LJ 30065735; THEY SHARE THE SAME PLACE OF USE