

September 2, 2016

KURT HAFFERMAN, PE
HAFFERMAN ENGINEERING
P.O. BOX 1891
Kalispell, MT 59903

RE: **Timbrshor at Finley Point
Wastewater Subdivision Rewrite
Lake County
E.Q. #15-1971**

Dear Mr. Hafferman:

The plans and supplemental information relating to the water supply, sewage, solid waste disposal, and storm drainage (if any) for the above referenced division of land have been reviewed as required by ARM Title 17 Chapter 36(101-805) and have been found to be in compliance with those rules.

Two copies of the Certificate of Subdivision Plat Approval are enclosed. The original is to be filed at the office of the county clerk and recorder. The duplicate is for your personal records.

Development of the approved subdivision may require coverage under the Department's General Permit for Storm Water Discharges Associated with Construction Activity, if your development has construction-related disturbance of one or more acre. If so, please contact the Storm Water Program at (406) 444-3080 for more information or visit the Department's storm water construction website at <http://deq.mt.gov/wqinfo/WaterDischarge/Index.asp>. Failure to obtain this permit (if required) prior to development can result in significant penalties.

Your copy is to inform you of the conditions of the approval. Please note that you have specific responsibilities according to the plat approval statement primarily with regard to informing any new owner as to any conditions that have been imposed.

If you wish to challenge the conditions of this Certificate of Subdivision Plat Approval, you may request a hearing before the Board of Environmental Review or the Department, pursuant to Section 76-4-126, MCA and the Montana Administrative Procedures Act.

If you have any questions, please contact this office.

Sincerely,

Barb Kingery, Supervisor
Subdivision Review Section

BK/EG

cc: File
County Sanitarian
County Planning Board

STATE OF MONTANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
CERTIFICATE OF SUBDIVISION APPROVAL
(Section 76-4-101 et seq., MCA)

TO: County Clerk and Recorder
Lake County
Polson, Montana

E.Q. #15-1971

THIS IS TO CERTIFY THAT the plans and supplemental information relating to the subdivision known as **Timbrshor, Wastewater Subdivision Re-write**

A tract of land located in Section 7, Township 23 North, Range 19 West, P.M.M., Lake County, Montana,

consisting of one condominium parcel (originally referred to as Borchers at Finley Point), which have been reviewed by personnel of the Permitting and Compliance Division, and,

THAT the documents and data required by ARM Chapter 17 Section 36 have been submitted and found to be in compliance therewith, and,

THAT the approval of the Lot Layout is made with the understanding that the following conditions shall be met:

THAT this Certificate supersedes E.S. 74/K330, dated the 22nd day of July, 1977 (known as Borchers of Finley Point), and all previous copies should be marked superseded, except that the original conditions not changed by this approval are still in effect, and,

THAT the Parcel size, as indicated on the original Plat will not be further altered without approval, and,

THAT the total number of residential building sites and their identification number, as indicated on the Site Plan prepared by Hafferman Engineering, indicate 48 residential units to be recorded with the Lake County Clerk and Recorder shall not be further altered without approval, and,

THAT the residential building sites (Unit locations) identified in the Site Plan include 48 total units, with 47 units reviewed by personnel of the Permitting and Compliance Division and one unit (Unit #217) designated with sanitary restrictions, and,

THAT the parcel shall be used for: 47 living units, comprised of 36 single family homes, one four-plex (each considered one living unit, totaling four living units), two duplex units (each considered one living unit, totaling four living units), two merged duplex units (considered in combination as one single family unit) and one lodge. The lodge is approved as a single family equivalent unit also, and,

THAT the following original units identified in the 1977 Certificate: 202, 319, 413, 420, 423 and 425 shall not be developed per the "Restriction on Development of Identified Lots", agreed to by Lake County Commissioners on April 16, 2015, and,

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Timbrshor
Wastewater Subdivision Rewrite
Lake County
E.Q. #15-1971

THAT the original July 27, 1977 community Water supply system approval (E.S. 77/K345) is not being modified as a part of this wastewater re-write, and,

THAT on-site storm water evaluation is not part of the scope of this wastewater re-write, and,

THAT the 47 living units' wastewater disposal shall be collected and disposed of utilizing six on-site, subsurface wastewater treatment systems. The design capacity of each wastewater treatment system (drainfield) is as follows: Drainfield A (19 units) = 4750 gpd, Drainfield B (4 units) = 1200 gpd, Drainfield C (8 units) = 2400 gpd, Drainfield D (5 units) = 1500 gpd, Drainfield E (8 units) = 2400 gpd and Drainfield F (3 units) = 950 gpd, and,

THAT, the Living Units will be connected to the following designated wastewater (drainfield) systems:

Drainfield A: 201, 203, 204, 205, 206, 209, 210, 211, 216, 219, 301, 302, 305, 306, 307, 308, 309, 311 and the lodge

Drainfield B: 312, 314, 315, and 316

Drainfield C: 403/404, 406, 408, 409, 410, 411, 412 and 414

Drainfield D: 418/419, 426, 427, 428 and 430

Drainfield E: 401, 402, 416, 417, 421, 422, 424 and 429

Drainfield F: 317, 318 and 320

THAT wastewater flow from residential Unit 403/404 combined shall not exceed 300 gpd. The wastewater flow from residential Unit 418/419 combined shall not exceed 300 gpd, and,

THAT Drainfield A shall be comprised of septic tanks located adjacent to the residential units, 170 feet of proposed gravity sewer collection, one 2000-gallon dose tank, approximately 920 ln.ft. of 3-inch diameter DR11 HDPE force main and another separate collection system comprised of one 1500-gallon combined septic/dose tank, approximately 200 ln.ft. of 2-inch diameter DR11 HDPE force main. The treatment system serving all 19 residential units shall be comprised of Level II treatment (comprised of two 3000-gallon recirculating tanks, two AdvanTex AX-100 Treatment pods, and one 3000-gallon dose tank), duplex Meyers ME50 effluent dose pumps (or equal) and an absorption (drainfield) area comprised of six zones. Total absorption area (of all six zones) shall be 4750 sq.ft., based on an application rate of 0.5 gpd/sq.ft. and the 50% Level II reduction in drainfield size, as designed per the plans and specifications prepared by Kurtis M. Hafferman, PE#10457 of Hafferman Engineering of Kalispell, MT, received September 2, 2016, and herein approved, and,

THAT when Drainfield A is in need of replacement, the absorption are will be replaced with standard, pressure dosed absorption trenches in the location indicated on the plans, and,

THAT Drainfield B shall be comprised of an existing septic tank, proposed common 2-inch diameter PVC CL200 force main, one 1000 gallon dose tank, one Meyers ME50S-11 effluent dose pump (or equal), one Elevated Sand Mound (with 1500 sq.ft. bed area and 2400 sq.ft. basal area) based on underlying soils application rate of 0.5 gpd/sq.ft., as designed per the plans and specifications prepared by Kurtis M. Hafferman, PE#10457 of Hafferman Engineering of Kalispell, MT, received September 2, 2016, and herein approved. Future replacement of the Drainfield B Elevated Sand Mound is intended in the same footprint, and,

THAT Drainfield C is an existing drainfield system that is proposed to be modified in order to achieve required setbacks to the adjacent drinking water well. The septic tanks and dose system will not be altered. The drainfield laterals will be modified to add 60 ln.ft. total to laterals 1-6, while abandoning 60 ln.ft. total from lateral 9 and 10, as designed per the plans and specifications prepared by Kurtis M. Hafferman, PE#10457 of Hafferman Engineering of Kalispell, MT, received September 2, 2016, and herein approved, and,

THAT when Drainfield C is in need of replacement, it shall be replaced with an Elevated Sand Mound (with 3000 sq.ft. bed area and 5100 sq.ft. basal area), based on a basal area application rate of 0.5 gpd/sq.ft., as designed per the plans and specifications prepared by Kurtis M. Hafferman, PE#10457 of Hafferman Engineering of Kalispell, MT, received September 2, 2016, and herein approved, and,

THAT Drainfield D shall be comprised of the existing experimental absorption bed drainfield with siphon dose system approved under Lake County septic permit #5585, which was comprised of two 8-ft by 80-ft laterals and one 10-ft by 75ft lateral and expansion of absorption bed drainfield herein described. The absorption bed drainfield expansion shall include adding lateral length to lateral #3 (11-ft by 10-ft) and installation of a 4th drainfield lateral (91-ft by 10-ft). With the expansion, Drainfield D totals 3050 sq.ft. of absorption area, designed to treat 1500 gpd based on an application rate of 0.5 gpd/sq.ft., as designed per the plans and specifications prepared by Kurtis M. Hafferman, PE#10457 of Hafferman Engineering of Kalispell, MT, received September 2, 2016, and herein approved, and,

THAT when Drainfield D is in need of replacement, it shall be replaced with an Elevated Sand Mound (with 1900 sq.ft. bed area and 3000 sq.ft. basal area), based on a basal area application rate of 0.5 gpd/sq.ft., as designed per the plans and specifications prepared by Kurtis M. Hafferman, PE#10457 of Hafferman Engineering of Kalispell, MT, received September 2, 2016, and herein approved, and,

THAT Drainfield E shall be comprised of existing septic tanks located adjacent to the residential units with effluent pumped through existing force mains, one 1500-gallon dose tank, one Meyers ME45 effluent pump (or equal) and one Elevated Sand Mound (ESM) (with 3000 sq.ft. bed area and 4800 sq.ft. basal area). Topography prevents the full basal area from being achieved. Mounds or diversion ditches must be installed upgradient of the ESM to prevent storm water runoff from impacting the ESM. The drainfield shall be installed as designed per the plans and specifications prepared by Kurtis M. Hafferman, PE#10457 of Hafferman Engineering of Kalispell, MT, received September 2, 2016, and herein approved. Future replacement of the Drainfield E Elevated Sand Mound is intended in the same footprint, and,

THAT Drainfield F shall be comprised of existing septic tanks and force main, two AdvanTex AX-20 Pods, one 1500 gallon recirculation tank with 500-gallon dose chamber, one Meyers ME 40 effluent dose pump (or equal), and one Elevated Sand Mount (with minimum dimensions of 600 sq.ft. bed area and 950 sq.ft. basal area) based on underlying soils application rate of 0.5 gpd/sq.ft. and the 50% reduction for Level II treatment, as designed per the plans and specifications prepared by Kurtis M. Hafferman, PE#10457 of Hafferman Engineering of Kalispell, MT, received September 2, 2016, and herein approved. Future replacement of the Drainfield F Elevated Sand Mound is intended in the same footprint, and,

THAT in accordance with ARM 17.30.718 (8) (a), an operation and maintenance contract shall include bi-annual on-site inspection of all major components of the Level II AdvanTex recirculating media trickling filter wastewater treatment systems for the first two (2) years after use of the system begins and annually thereafter, for the life of the system.

In accordance with ARM 17.30.718 (8) (b), annual effluent sampling is required for the life of the system and shall be for the following parameters: nitrate, nitrite, ammonia, TKN, BOD, TSS, fecal coliform, specific conductance and temperature. Effluent sampling shall be conducted after all treatment is complete but before discharge into the absorption system. All water analysis shall be conducted according to the EPA approved method by an independent laboratory, except for temperature which shall be measured on-site. The monitoring results must be maintained by the service provider and made available to the Department (MDEQ) by the service provider at any time that the Department requests.

THAT when the existing sewage treatment systems are in need of extensive repairs or replacement, each shall be replaced by a septic tank and subsurface drainfield of such size and description as will comply with Lake County regulations for Sewage Treatment Systems and Title 17, Chapter 36, Subchapters 1, 3 & 6 ARM before construction is started, and,

THAT when future living units are constructed (in the locations designated) and if sewer collection systems serving such units are proposed that serve more than one living unit, such sewer collection is deemed a sewer main. Plans and specifications for any proposed sewer main must be submitted by a professional engineer to the Department for review and approval prior to construction, and,

THAT the bottom of the drainfield shall be at least four feet above the water table, and,

THAT no sewage treatment system shall be constructed within 100 feet of the maximum highwater level of a 100 year flood of any stream, lake, watercourse, or irrigation ditch, nor within 100 feet of any domestic water supply source, and,

THAT wastewater (sewage) treatment systems shall be located as shown on the attached lot layout and approved plans, and,

THAT the owner of record shall provide any purchaser of property with a copy of the Plat, Unit Site Plan, Lot Layout indicating the location of sewage treatment systems and a copy of this document, and,

THAT instruments of transfer for this property shall contain reference to these conditions, and,

THAT departure from any criteria set forth in the approved plans and specifications and Title 17, Chapter 36, Sub-Chapters 1, 3, and 6 ARM when erecting a structure and appurtenant facilities in said subdivision without Department approval, is grounds for injunction by the Department of Environmental Quality.

THAT pursuant to Section 76-4-122 (2)(a), MCA, a person must obtain the approval of both the reviewing authority under Title 76, Chapter 4, MCA, and local Health officer having jurisdiction, before filing a subdivision plat with the county clerk and recorder.

YOU ARE REQUESTED to record this certificate by attaching it to the Certificate of Survey filed in your office as required by law.

DATED this 2nd day of September, 2016.

THOMAS LIVERS
DIRECTOR

By: _____

Barbara Kingery, Supervisor
Subdivision Review Section
Permitting and Compliance Division
Department of Environmental Quality

Owner's Name: Timbrshor at Finley Point HOA , Tom Cox, president