

March 21, 2023

Mariah Anderson IMEG Group 175 N 27th Street Suite 1312 Billings MT 59101

RE:

The Meadows Subdivision

Yellowstone County E.O. #22-2615

Dear Ms. Anderson:

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://www.deq.state.mt.us/wqinfo/MPDES/StormwaterConstruction.asp. Failure to obtain this permit (if required) prior to development can result in significant penalties.

In addition, your project may be subject to Federal regulations relating to Class V injection wells. Please contact the United States Environmental Protection Agency regarding specific rules that may apply.

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 have any questions, please contact this office.

Sincerely,

Shawn Rowland M.S. R.S.

Subdivision Section Supervisor

Engineering Bureau Water Quality Division

SR/JL

cc:

County Sanitarian

County Planning Board (e-mail)

Owner

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

TO: County Clerk and Recorder Yellowstone County Billings, Montana EQ#: 22-2615

THIS IS TO CERTIFY THAT the plans and supplemental information relating the subdivision known as **The Meadows Subdivision:**

Being Tracts 2 and 3 of Certificate of Survey No.2335 located in the SE ¼ of Section 18, T.1S., R.25E., P.M.M., YELLOWSTONE COUNTY, MONTANA,

consisting of thirty-nine (39) lots, have been reviewed by personnel of the Water Quality 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 approval of the application is made with the understanding that the following conditions shall be met:

THAT the parcel sizes as indicated on the COS filed with the county clerk and recorder will not be further altered without approval, and,

THAT each lot shall each be used for one living unit, and,

THAT the proposed individual water supply system for each lot shall consist of a well drilled to a minimum depth of 25 feet constructed in accordance with the criteria established in Title 17, Chapter 36, Sub-Chapters 1, 3 and 6 ARM and the most current standards of the Department of Environmental Quality, and,

THAT the proposed individual water wells for Lots 28-39 will be located by easement on neighboring Lots 12-15,17, 18, 20, 21, 23-25 and 27 as indicated on approved lot layout plan, and,

THAT data provided indicates an acceptable water source at a depth of approximately 30-60 feet, and,

THAT the individual sewage treatment systems for each lot shall consist of a minimum 1,500 gallon septic tank with an effluent filter, an approved Level II recirculating trickling filter system, a minimum 500-gallon dosing tank with high-level alarm, and a pressure-dosed subsurface drainfield of such size and description as will comply with Title 17, Chapter 36, Sub-Chapters 1, 3 and 6 ARM, and the most current Yellowstone County Regulations for Sewage Treatment Systems, and,

THAT the conditions of approval for a Level II treatment system requires an Operation & Maintenance (O&M) contract, in accordance with ARM 17.30.718(8) and the service-related obligations listed in DEQ-4, Appendix D, in perpetuity, with an authorized Dealer/Representative, and,

THAT the O&M contract shall include a bi-annual on-site inspection of all major components of the wastewater treatment system for the first two (2) years after use of the system begins, and annually thereafter, in accordance with ARM 17.30.718(8)(a), and,

THAT annual sampling in accordance with ARM 17.30.718(8)(b) is required for the life of the system and shall include the following parameters: nitrate; nitrite, ammonia, total Kleldahl nitrogen (TKN), biochemical oxygen demand (BOD), total suspended solids (TSS), fecal coliform, specific conductance and temperature. Effluent sampling shall be conducted after all treatment is complete and prior to discharge to the subsurface 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 onsite. The monitoring results must be maintained by the service provider and made available to the Department by the service provider at any time the Department requests the results, and,

THAT the proposed subsurface drainfield on Lots 4, 19-25, 27, 32-36, and 38-39 will have an absorption area of sufficient size to provide for a 0.4 gpd/ft.sq. application rate and will be constructed in accordance with plans and specifications as submitted by IMEG dated May 2022, and,

THAT the proposed subsurface drainfield on Lots 1-3, 5-18, 26, 28-31 and 37 will have an absorption area of sufficient size to provide for a 0.3 gpd/ft.sq. application rate and will be constructed in accordance with plans and specifications as submitted by IMEG dated May 2022, and,

THAT the bottom of the drainfield shall be at least four feet above a limiting layer as defined in the ARM Title 17, Chapter 36, Subchapter 1, and,

THAT no sewage treatment system shall be constructed within 100 feet of the maximum high-water 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 the primary and replacement area drainfield areas shall be staked by a site evaluator or engineer prior to construction to ensure they are located as per the approved site plan and all setbacks are maintained, and,

THAT the stormwater drainage system shall consist of: irrigated lawn and landscaping, properly constructed county roads, and a minimum 92,161 cubic foot of retention swale(s) located and constructed in accordance with plans submitted by Kolten Knatterud, PE#38396 of IMEG Corp dated May 2022, and

THAT water supply systems, sewage collection and treatment systems and storm drainage systems will be located as shown on the approved plans, and,

THAT all sanitary facilities must be located as shown on the attached lot layout, and,

THAT the developer and/or owner of record shall provide the purchaser of property with a copy of the plat, approved location of water supply and sewage treatment system as shown on the attached lot layout, and a copy of this document, and,

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

THAT plans and specifications for any proposed sewage treatment systems will be reviewed and approved by the Yellowstone City-County Health Department and will comply with Yellowstone City-County Board of Health Rule #3 and Title 17, Chapter 36, Sub-Chapters 3 and 9, ARM, before construction is started.

Pursuant to Section 76-4-122 (2) (a), MCA, a person must obtain the approval of both the State under Title 76, Chapter 4, MCA, and local board of health under section 50-2-116 (1) (i), before filing a subdivision plat or COS with the county clerk and recorder.

THAT departure from any criteria set forth in the approved plans and specifications and Title 17, Chapter 36, Sub-Chapter 1, 3, & 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.

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

DATED this 17th Day of January, 2023.

BY:

Adam Harris, RS

Environmental Health Services

Yellowstone City/County Health Department

d/b/a RiverStone Health

OWNERS NAME: M&J Land Company LLC

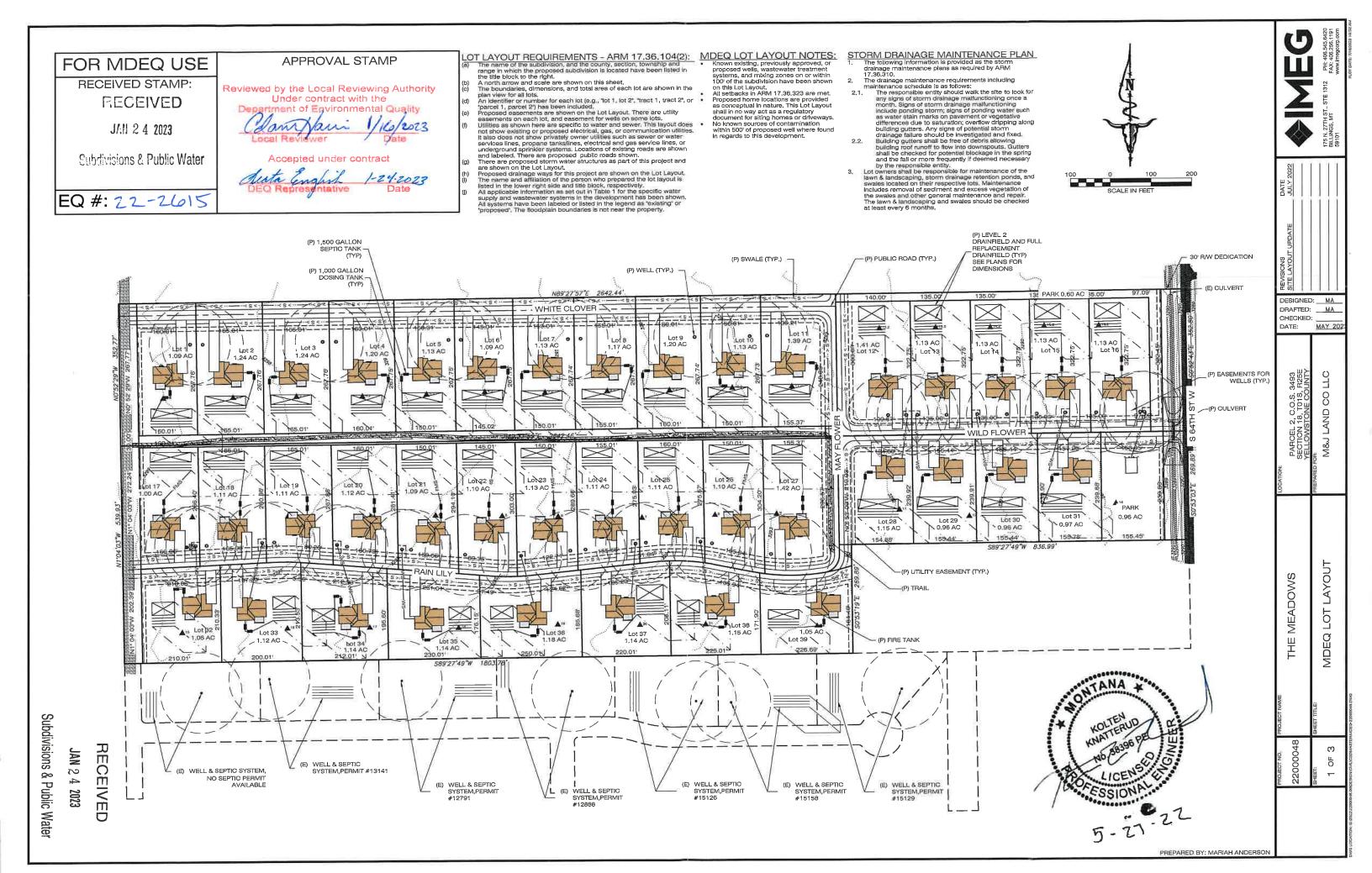
Chris Dorrington,

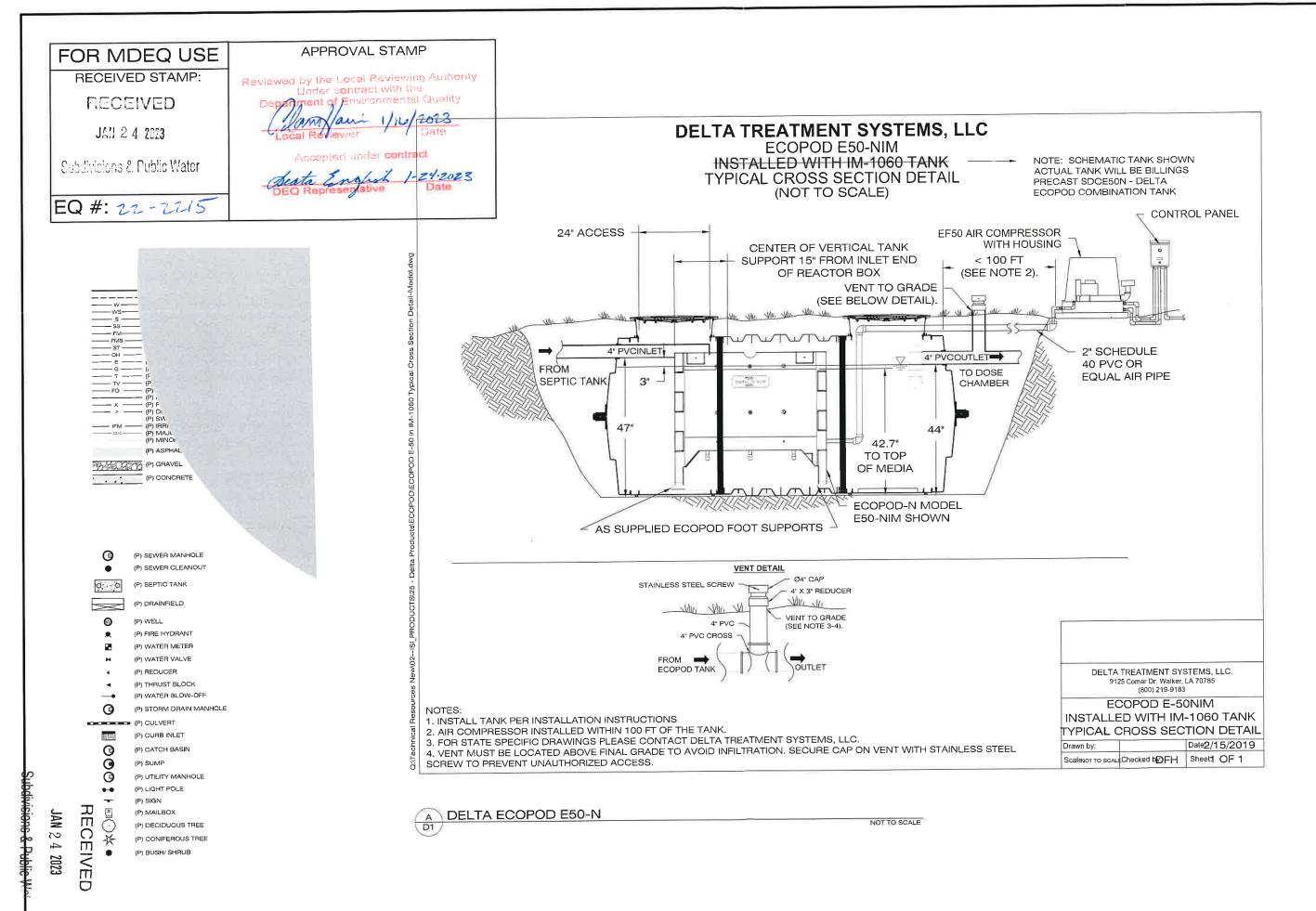
DIRECTOR

Shawn Rowland, MS RS, Section Supervisor Subdivision Section & Engineering Bureau

Water Quality Division

Department of Environmental Quality





DESIGNED: MA_ DRAFTED: MA_ CHECKED: MAY 202 DATE: M&J LAND CO LLC

THE MEADOWS
MDEQ LOT LAYOUT

22000048
sheer:
D1 oF D2

PREPARED BY: MARIAH ANDERSON

THE SEPTIC TANK MUST MEET THE REQUIREMENTS OF DEQ CIRCULAR 4, CHAPTER 5,

THE REVIEWING AUTHORITY OR DESIGNER MAY REQUIRE TANKS INTENDED FOR OTHER USES

- THE REVIEWING AUTHORITY OR DESIGNER MAY REQUIRE TANKS INTENDED FOR OTHER USES TO BE TESTED, TANKS MUST BE TESTED USING ON OF THE FOLLOWING METHHODS:

 A. VACUUM TESTING: SEAL THE EMPTY TANK AND APPLY A VACUUM TO 4 INCHES (100mm) MERCURY. THE TANK IS APPROVED IF 90% OF THE VACUUM IS HELD FOR 2 MINUTES: OR B. WATER PRESSURE TESTING: SEAL THE TANK, FILE WITH WATER, AND LET STAND FOR AT LEAST 24 HOURS, REFILL THE TANK, THE TANK IS APPROVABLE IF IT HOLDS WATER.

THE SEPTIC TANK OUTLET MUST BE EQUIPPED WITH AN EFFLUENT FILTER WITH A MAXIMUM 1/8

THE ET SYSTEM MUST BE CONSTRUCTED BY A SEPTIC INSTALLER CERTIFIED BY THE RIVERSTONE HEALTH DEPARTMENT AND MUST BE CONSTRUCTED IN ACCORDANCE WITH THE RIVERSTONE HEALTH DEPARTMENT REGULATIONS.

CLEANOUTS MUST BE INSTALLED EVERY 100 FEET WITH AT LEAST ONE BETWEEN THE HOUSE AND SEPTIC TANK ON THE SEWER LINE.

OWNER/CONTRACTOR MUST OBTAIN REQUIRED PERMITS PRIOR TO STARTING CONSTRUCTION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY LOCATES, CALL 1-800-424-5555 FOR "ONE-CALL LOCATOR

ALL MATERIALS SHALL BE AS SPECIFIED ON PLANS. FOLLOWING IS A LIST OF COMPONENTS & THEIR SPECIFIED SIZES:

FORCE MAIN = 1.5 MANIFOLD = 1,5° LATERALS = 1.5° ORIFICE SIZE = 5/32"

CONSTRUCTION METHODS SHALL BE SUCH THAT THE SOILS BELOW THE ET SYSTEM ARE NOT COMPACTED. AFTER EXCAVATION OF THE ET BED, THE BOTTOM & SIDES MUST BE RAKED TO SCARIFY SMEARED SOIL SUPFACES. IF A SAMPLE OF SOIL WITHIN THE WORKING DEPTH CAN BE EASILY ROLLED INTO THE SHAPE OF A WIRE OF CAST, THE SOIL MOISTURE CONTENT IS TOO HIGH & CONSTRUCTION SHALL BE POSTPONED.

EXCAVATE SEPTIC TANK BOTTOM TO GRADE. DO NOT OVER EXCAVATE. IF OVER EXCAVATION OCCURS, ONLY A CRUSHED 1" MINUS GRAVEL SHALL BE USED AS BACKFILL. TANK SHALL BE INSTALLED IN ACCORDANCE WITH THE YELLOWSTONE COUNTY HEALTH CODES.

INSTALL COMPONENTS IN ACCORDANCE WITH THE INSTRUCTIONS PROVIDED BY THE SUPPLIER.

COORDINATE THE LOCATION OF THE DOSE CONTROL PANEL WITH THE PROJECT OWNER. COORDINATE ALL TESTING WITH RIVERSTONE HEALTH DEPARTMENT & ENGINEER.

PROVIDE OWNERS OF SYSTEM WITH ALL MANUFACTURER'S OPERATION AND MAINTENANCE DOCUMENTATION UPON COMPLETION.

RECEIVED

JAN 2 4 2823

CONTROL PANEL NOTES:

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 TROUBLESHOOTING AND POTENTIAL FUTURE MAINTENANCE ISSUES CONTROL PANEL SHOULD ALSO INCLUDE A HEATER IS INSTALLED OUTSIDE, OR IN UN-HEATED BUILDING/ GARAGE.

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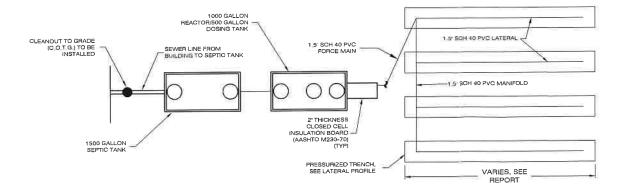
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- 3. PUMP OFF FLOAT MUST BE HIGHER THAN TOP OF PUMP FOR THIS DESIGN.

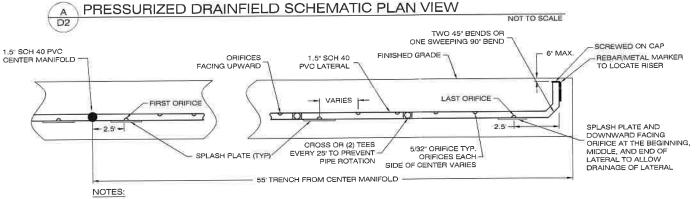
SEPTIC/DOSING TANK NOTES:

- 1. RISER HEIGHT MAY VARY DUE TO STEEP SLOPES AND FINAL CONFIGURATION OF TANK ON SITE. ENGINEER RECOMMENDS ALL RISERS REMAIN VISIBLE AND ACCESSIBLE TO FACILITATE MAINTENANCE
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- INSTALLED IN ACCORDANCE WITH THE RIVERSTONE HEALTH CODES,
 IF TANKS ARE MOVED FROM PROPOSED LOCATION ON THESE
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SEPTIC TANK WATER TIGHTNESS TESTING NOTE:

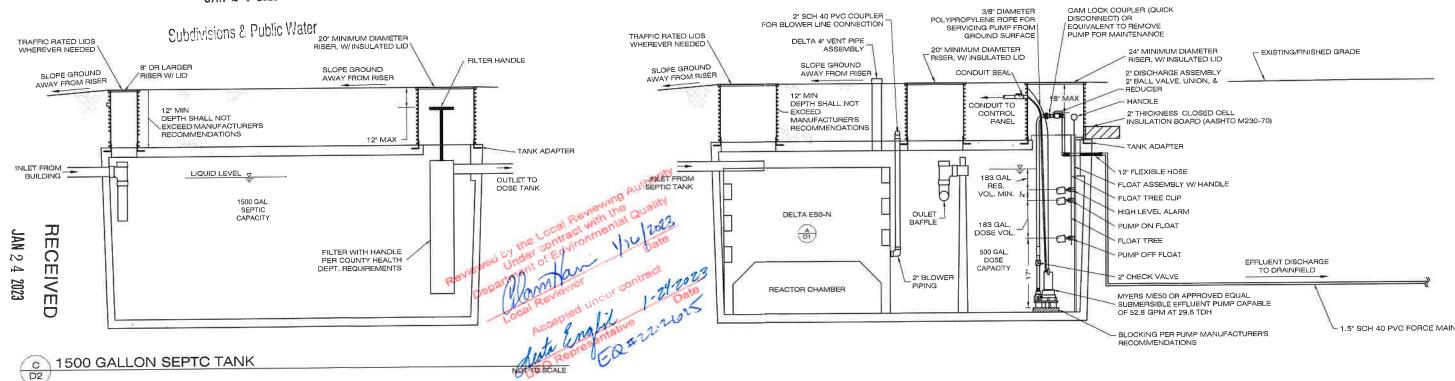
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1. INSTALL SPLASH PLATE ON ALL DOWNWARD FACING ORIFICES TO PREVENT TRENCH SCOURING, SPLASH PLATE SHALL BE 12" x 12" x 2" CONCRETE

DRAINFIELD LATERAL PROFILE NOT TO SCALE D2



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1000 GALLON REACTOR/500 GALLON DOSE COMBINATION TANK

PREPARED BY: MARIAH ANDERSON

Page 52 of 242

TANK ELEVATION AFFECT PUMP SIZING

406 FAX 175 I BILL 5245

DESIGNED: MA DRAFTED: MA CHECKED: DATE: MAY 202

LC 8 LAND

MEADOWS LOT

MDEQ Ш

> ö 02



RECEIVED STAMP:

RECEIVED

JAN 2 4 2023

Subdivisions & Public Water

EQ #: 22-2615

APPROVAL STAMP

Reviewed by the Local Reviewing Authority Under contract with the Department of Environmental Quality

Accepted under contract

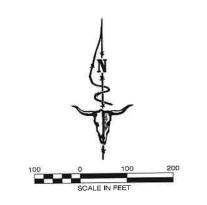
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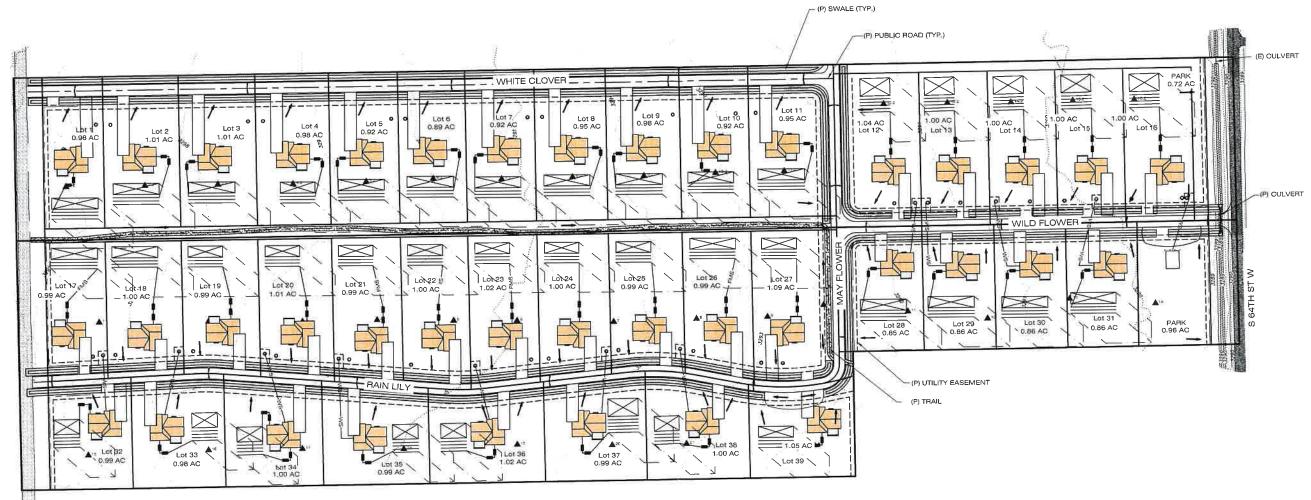
DRAINAGE BASIN EXHIBIT - NOTES:

(a) 92,161 OF OF STORAGE TO BE PROVIDED FROM THE SWALES SHOWN. THIS VOLUME IS GREATER THAN THE 86,776 OF OF REQUIRED STORAGE FOR THE 100- YEAR STORM.

(b) TIME TO DRAIN IN THE SWALES IS 10 HOURS, WITH A DEPTH TO DRAIN OF 11.3 INCHES FOR THE 100-YEAR STORM.

(c) STORAGE CALCULATIONS WERE CONSIDERED USING THE POST-DEVELOPMENT STORAGE REQUIRED VOLUME FOR THE 100-YEAR STORM.





REVEGETATE AFTER CUTTING SWALE 4:1 MAX BOTTOM OF SWALE (2% SLOPE)

A TYPICAL SWALE DETAIL

NOT TO SCALE

DESIGNED: ___MA

DRAFTED: MA

MAY_202.

M&J LAND CO LLC

EXHIBIT

BASIN I

DRAINAGE

OF

THE MEADOWS

CHECKED:

PARCEL 2, C.O.S. 3493 SECTION 18, T01S, R25E YELLOWSTONE COUNTY

DATE:

PREPARED BY: MARIAH ANDERSON

Subdivisions & Public JAN 2 4 2023

RECEIVED



March 21, 2023

Mariah Anderson IMEG Group 175 N 27th Street Suite 1312 Billings MT 59101

RE:

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Subdivision Section Supervisor

Engineering Bureau Water Quality Division

SR/JL

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Owner

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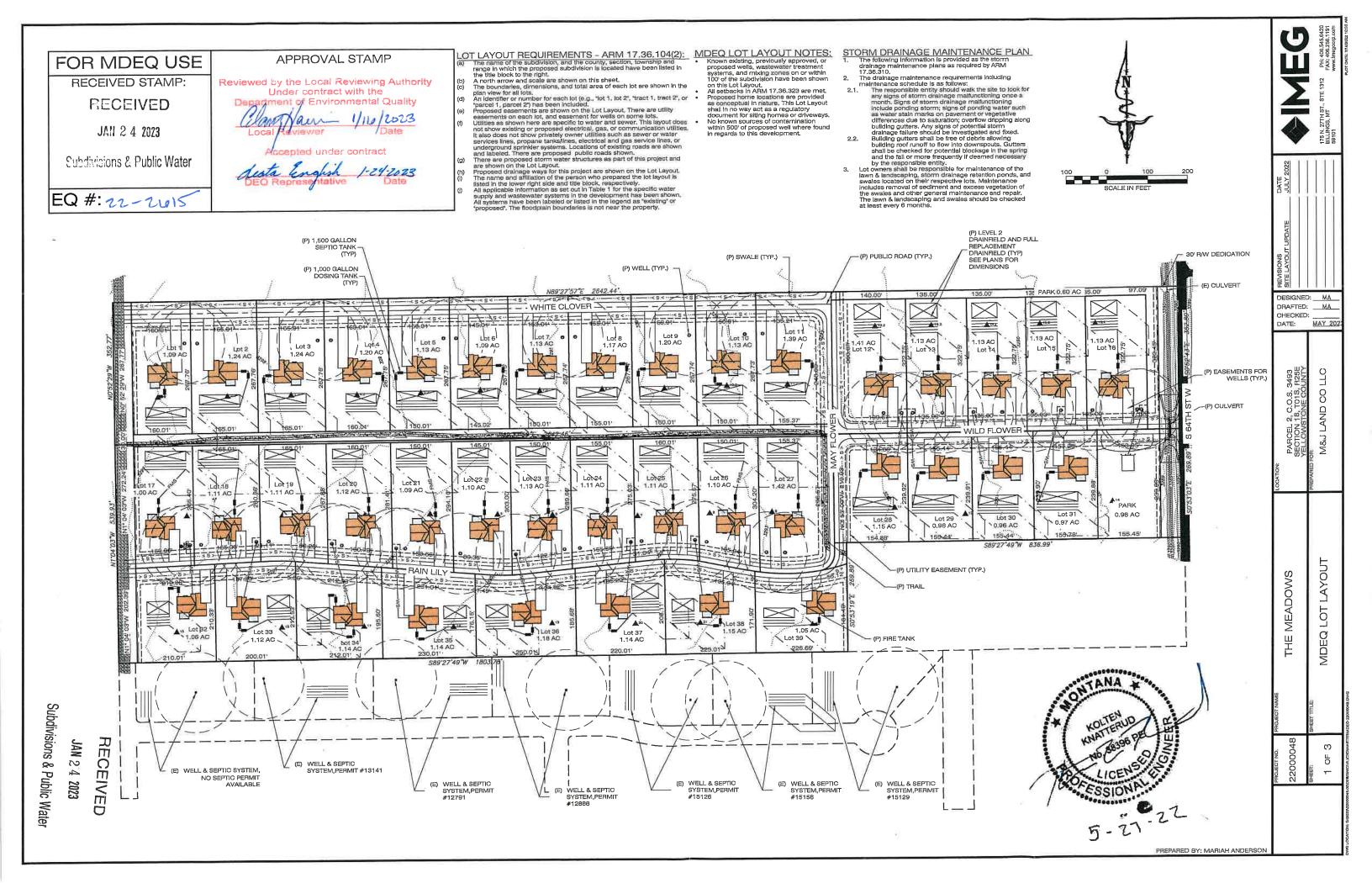
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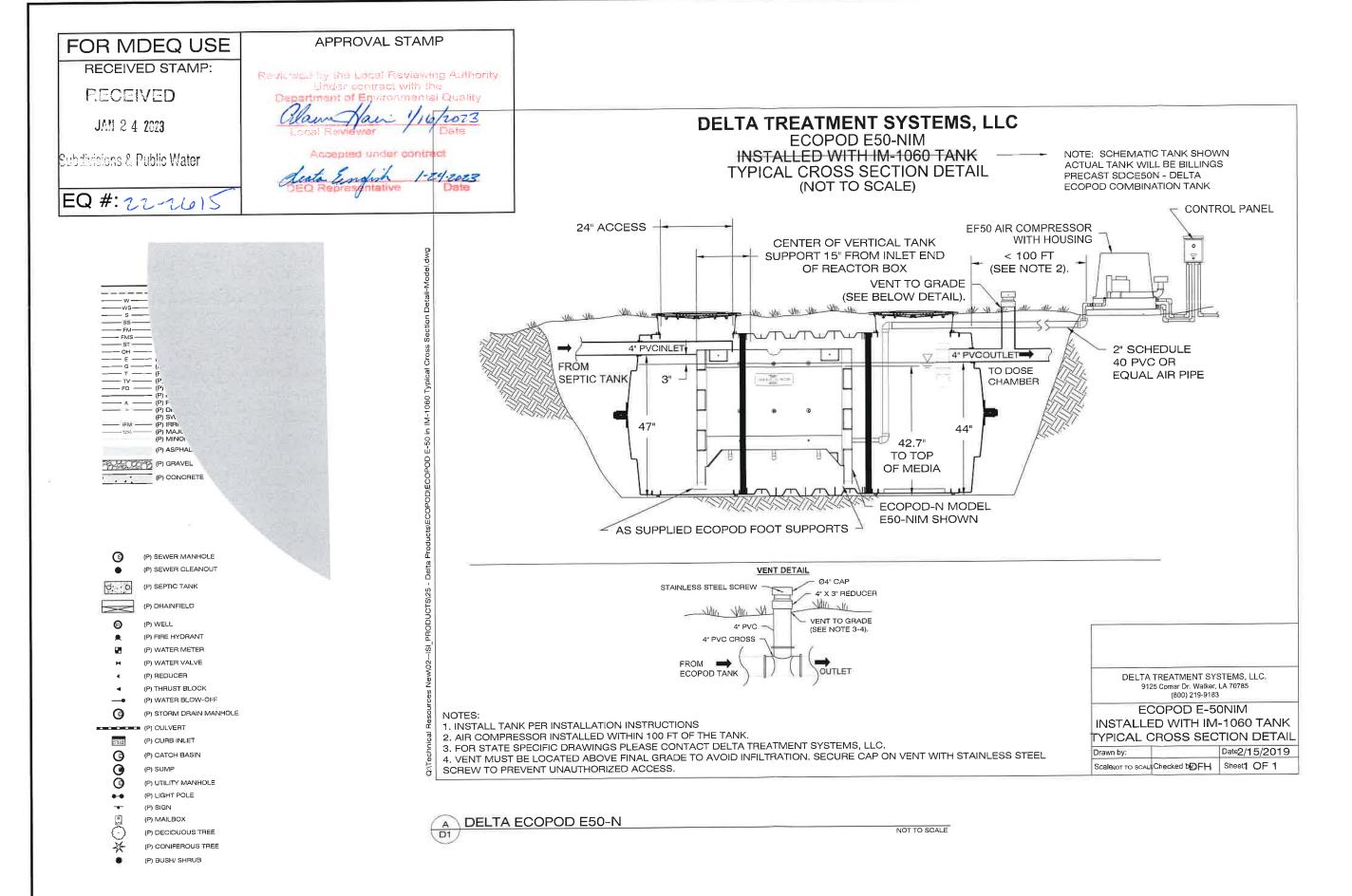
DIRECTOR

Shawn Rowland, MS RS, Section Supervisor Subdivision Section & Engineering Bureau

Water Quality Division

Department of Environmental Quality





DESIGNED: MA

DRAFTED: MA

CHECKED: ____

M&J LAND CO LLC

MDEQ LOT LAYOUT

Ö

THE MEADOWS

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COORDINATE THE LOCATION OF THE DOSE CONTROL PANEL WITH THE PROJECT OWNER.

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CONTROL PANEL NOTES:

- 1, CONTRACTOR SHALL COORDINATE WITH OWNER FOR LOCATION OF CONTROL PANEL.
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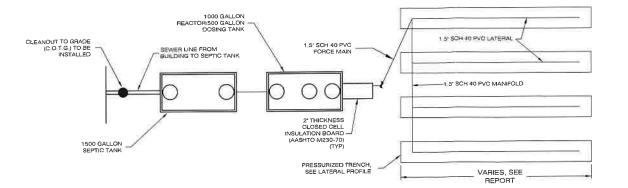
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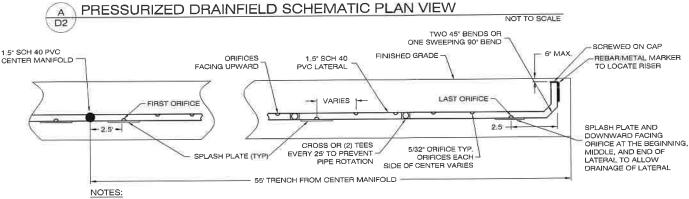
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WATER TESTING MUST BE CONDUCTED BY SEALING OUTLETS, FILLING SEPTIC TANK TO 6' ABOVE TANK LID, AND ALLOWING TANK TO STAND FOR AT LEAST 8 HOURS. IF THERE IS A MEASURABLE LOSS (1 INCHES OR MORE), REFILL THE TANK AND LET STAND FOR ANOTHER 8 HOURS. IF THERE IS AGAIN A MEASURABLE LOSS, THE TANK MUST BE REJECTED.



3/8" DIAMETER



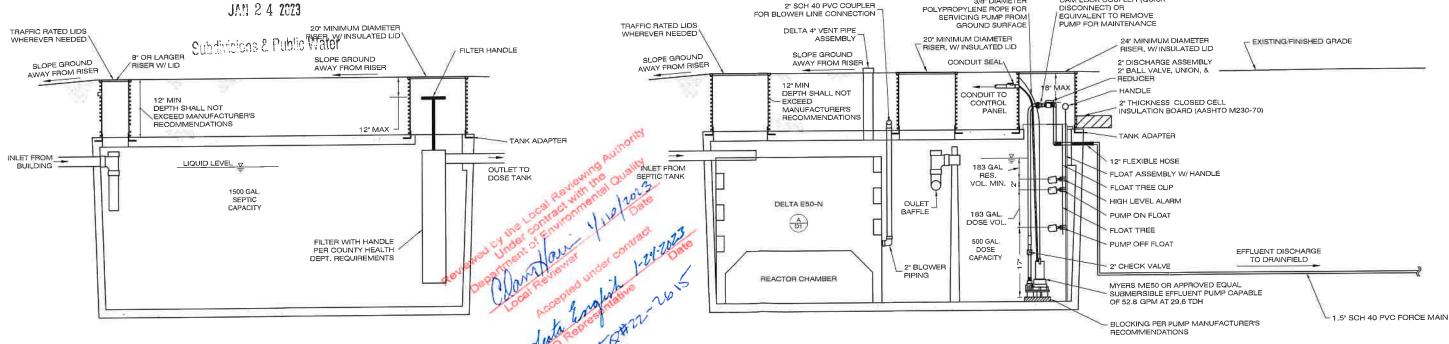
1. INSTALL SPLASH PLATE ON ALL DOWNWARD FACING ORIFICES TO PREVENT TRENCH SCOURING. SPLASH PLATE SHALL BE 12" x 12" x 2" CONCRETE LANDSCAPING PAVER OR APPROVED EQUAL,

CAM LOCK COUPLER (QUICK

DRAINFIELD LATERAL PROFILE D2

NOT TO SCALE

RECEIVED



SEPTIC/DOSING TANK NOTES:

D2

1500 GALLON SEPTC TANK

- 1, RISER HEIGHT MAY VARY DUE TO STEEP SLOPES AND FINAL CONFIGURATION OF TANK ON SITE, ENGINEER RECOMMENDS ALL RISERS
- RISER HEIGHT MAY VARY DUE TO STEEP SLOPES AND FINAL CONFIGURATION OF TANK ON STEE, ENGINEER RECOMMENDS ALL RISERGY
 REMAIN VISIBLE AND ACCESSIBLE TO FACILITATE MAINTENANCE.
 EXCAVATE SEPTIC TANK BOTTOM TO GRADE, DO NOT OVER-EXCAVATE: IF OVER EXCAVATION OCCURS, ONLY A CRUSHED 1" MINUS GRAVEL
 SHALL BE USED AS BACKFILL. TANK SHALL BE INSTALLED IN ACCORDANCE WITH THE YELLOWSTONE-COUNTY HEALTH CODES.
 IF TANK IS MOVED FROM PROPOSED LOCATION ON THESE PLANS, AN ENGINEER SHALL CONFIRM PUMP SIZING. FORCE MAIN LENGTH AND
 TANK ELEVATION AFFECT PUMP SIZING.

1000 GALLON REACTOR/500 GALLON DOSE COMBINATION TANK

PREPARED BY: MARIAH ANDERSON

Page 61 of 242

DESIGNED: MA DRAFTED: MA CHECKED:

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RECEIVED STAMP:

RECEIVED

JAN 2 4 2023

Subdivisions & Public Water

EQ #: 22-2615

APPROVAL STAMP

Reviewed by the Local Reviewing Authority Under contract with the

Department of Environmental Quality

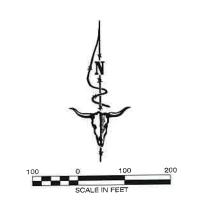
Accepted under contract

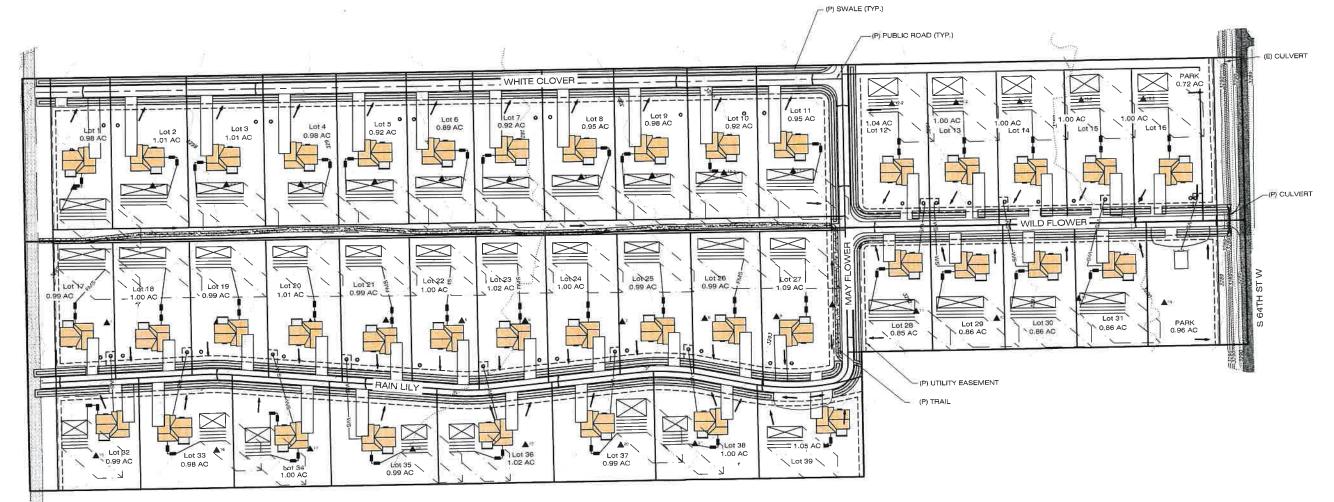
DRAINAGE BASIN EXHIBIT - NOTES:

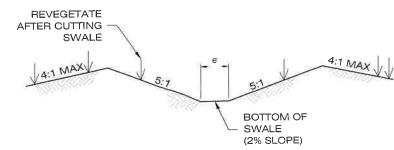
(8) 92.161 OF OF STORAGE TO BE PROVIDED FROM THE SWALES SHOWN. THIS VOLUME IS GREATER THAN THE 86,776 OF OF REQUIRED STORAGE FOR THE 100-YEAR STORM.

(b) TIME TO DRAIN IN THE SWALES IS 10 HOURS, WITH A DEPTH TO DRAIN OF 11.3 INCHES FOR THE 100-YEAR STORM.

(c) STORAGE CALCULATIONS WERE CONSIDERED USING THE POST-DEVELOPMENT STORAGE REQUIRED VOLUME FOR THE 100-YEAR STORM,









PREPARED BY: MARIAH ANDERSON



222

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EVISIONS	TE LAYOUT		

REVISION SITE LAYO			
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DATE	:	MAY	20
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OCATION PARCEL 2, C.O.S. 3493 SECTION 18, TOTS, R26E YELLOWSTONE COUNTY PREPARED FOR: M&J LAND CO LLC
——الأسطان

BASIN EXHIBIT THE MEADOWS

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