STATE OF MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY CERTIFICATE OF SUBDIVISION PLAT APPROVAL

(Section 76-4-101 et seq.)

TO: County Clerk and Recorder **Gallatin County** Bozeman, Montana

E.Q. # 22-1942

THIS IS TO CERTIFY THAT the plans and supplemental information relating to the subdivision known as:

Bridger Shadows West, Phase 1

LOT 3 of MINOR SUBDIVISION NO. 502, located in the NE% of Section 19 and the NW% of Section 20, Township 1 South, Range 5 East, P.M.M., Gallatin County, Montana as found in the records of the Gallatin County Clerk & Recorder, containing 57.10 acres and subject to any existing easement of record.

Consisting of 20 lots (Lots 1-4, Lots 13-27, and Open Space) having been reviewed by personnel of the Water Quality Division, and,

THAT the land designated as "Lot A" on the Plat is exempt from review by Administrative Rules of Montana 17.36.605(2)(a) "a parcel that has no facilities for water supply, wastewater disposal, storm drainage, or solid waste disposal, if no facilities will be constructed on the parcel," 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 purpose of this proposal is to lift sanitary restrictions from the lots, and,

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

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

THAT the Open Space Lot shall only be used for stormwater retention pond, fire pond, and an easement for the fire supply line and the sewer main, and,

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

THAT the approved proposed locations of the individual drinking water well shall be staked by the engineer or site evaluator prior to any construction on the lot, and,

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THAT the proposed individual drinking water system will 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 data provided indicates an acceptable water source at a depth of approximately 60-feet, and,

THAT the top of the well casing shall be sealed with a screened, vented sanitary well seal which, when installed, creates a watertight seal to prevent the entrance of water or foreign materials into the well, and,

THAT the public wastewater collection, treatment, and disposal system and the storm drainage system will be in accordance with the approval issued under EQ 22-1974, and,

THAT the bottom of the drainfield shall be at least four feet above the seasonal high groundwater 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 water supply systems, sewage treatment systems and storm drainage systems will be located as shown on the approved plans, and,

THAT the operation and maintenance of water supply, sewage treatment system, and stormwater facilities shall be the responsibility of the lot owner, and,

THAT the storm drainage facilities will be in accordance with the approval issued under EQ#22-1974, and,

THAT if construction disturbance will exceed 1-acre, a construction stormwater permit from the Department will be required, and,

THAT the developer and/or owner of record shall provide each purchaser of property with a copy of the Plat approved location of water supply, sewage treatment system and storm drainage structures 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 county health department and will comply with local regulations and ARM, Title 17, Chapter 36, Subchapters 3 and 9, in effect when the subdivision application was submitted, and,

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Gallatin County, Montana
EQ#22-1942 GCCHOA #24-038

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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, and,

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 with the county clerk and recorder.

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

DATED this 1st day of November, 2023.

REVIEWED AND APPROVED BY:

CHRISTOPHER DORRINGTON,

DIRECTOR

Lori Christenson, MPH

Health Officer

Gallatin City-County Health Department

Shawn Rowland, MS RS, Section Supe

Subdivision Section

Engineering Bureau

Water Quality Division

Department of Environmental Quality

Owner's Name: Riverwood One, LLC (Chris Murphy)

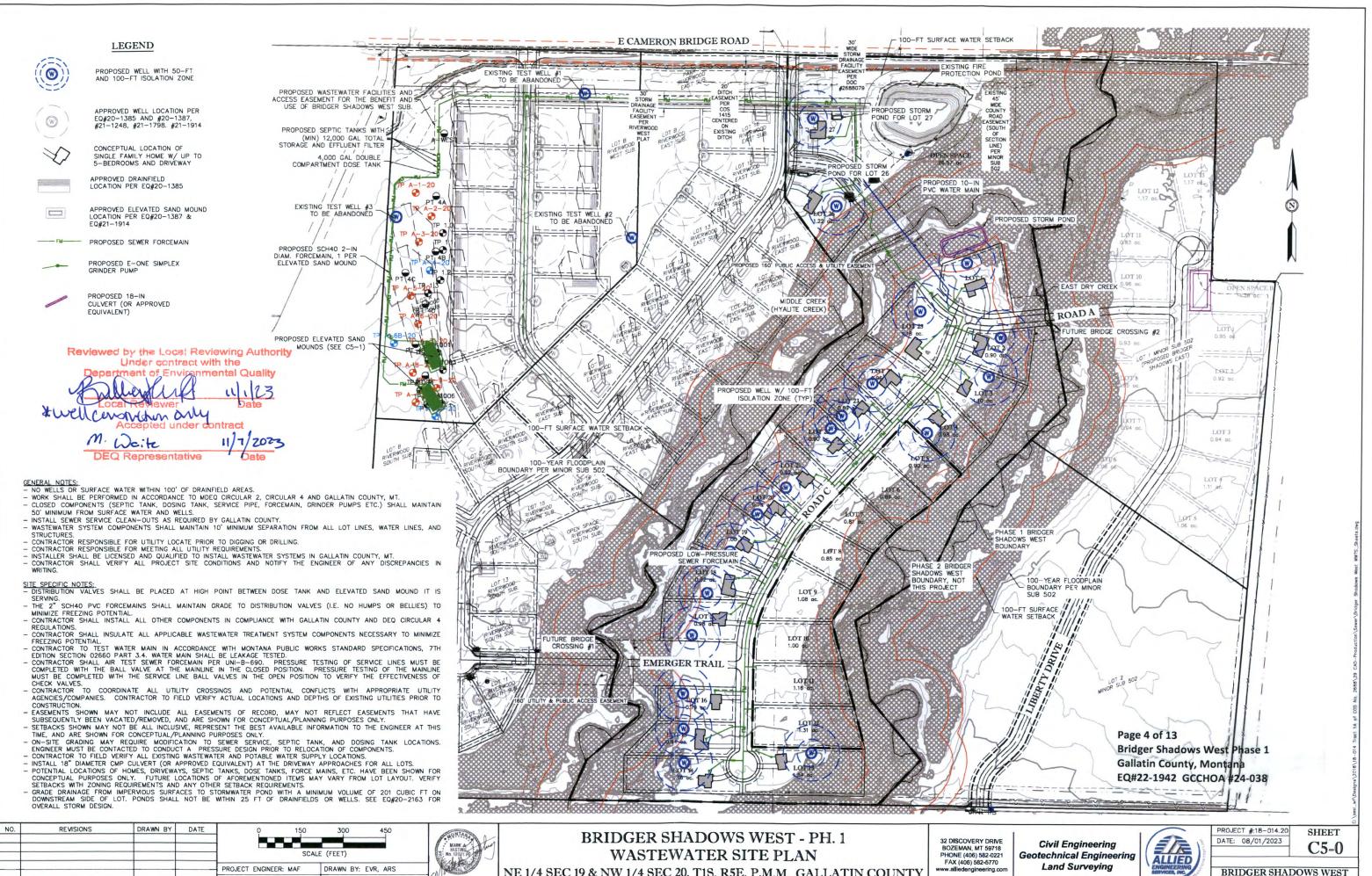
Page 3 of 13 Bridger Shadows West Phase 1 Gallatin County, Montana EQ#22-1942 GCCHOA #24-038

PROJECT ENGINEER: MAF

DESIGNED BY: EVR, ARS

DRAWN BY: EVR, ARS

REVIEWED BY: MAR



NE 1/4 SEC 19 & NW 1/4 SEC 20, T1S, R5E, P.M.M., GALLATIN COUNTY

Land Surveying

BRIDGER SHADOWS WEST

NE 1/4 SEC 19 & NW 1/4 SEC 20, T1S, R5E, P.M.M., GALLATIN COUNTY

BRIDGER SHADOWS WEST

PROJECT ENGINEER: MAF

REVIEWED BY: MAF

DESIGNED BY: EVR

DESIGNED BY: EVR, ARS

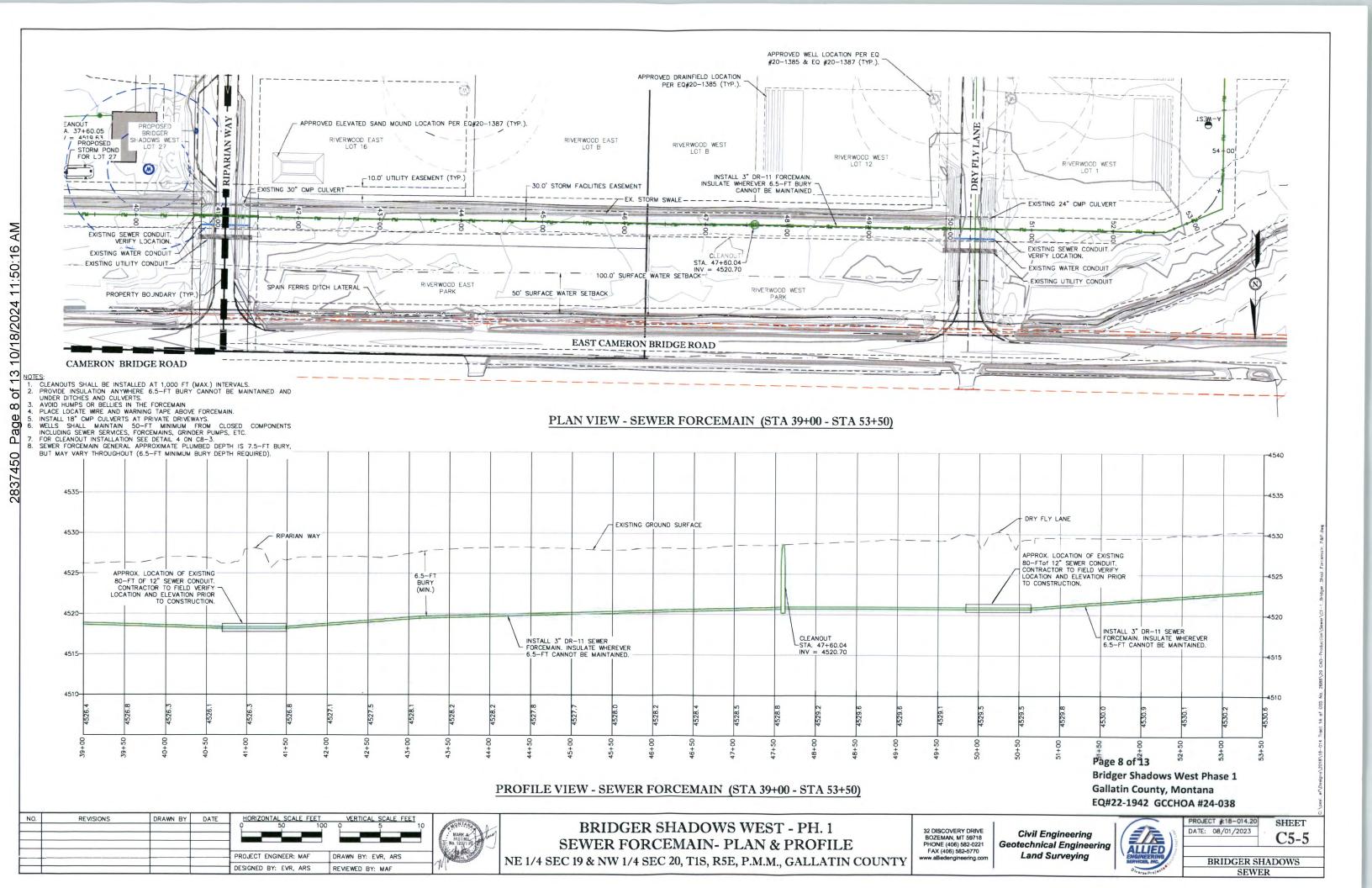
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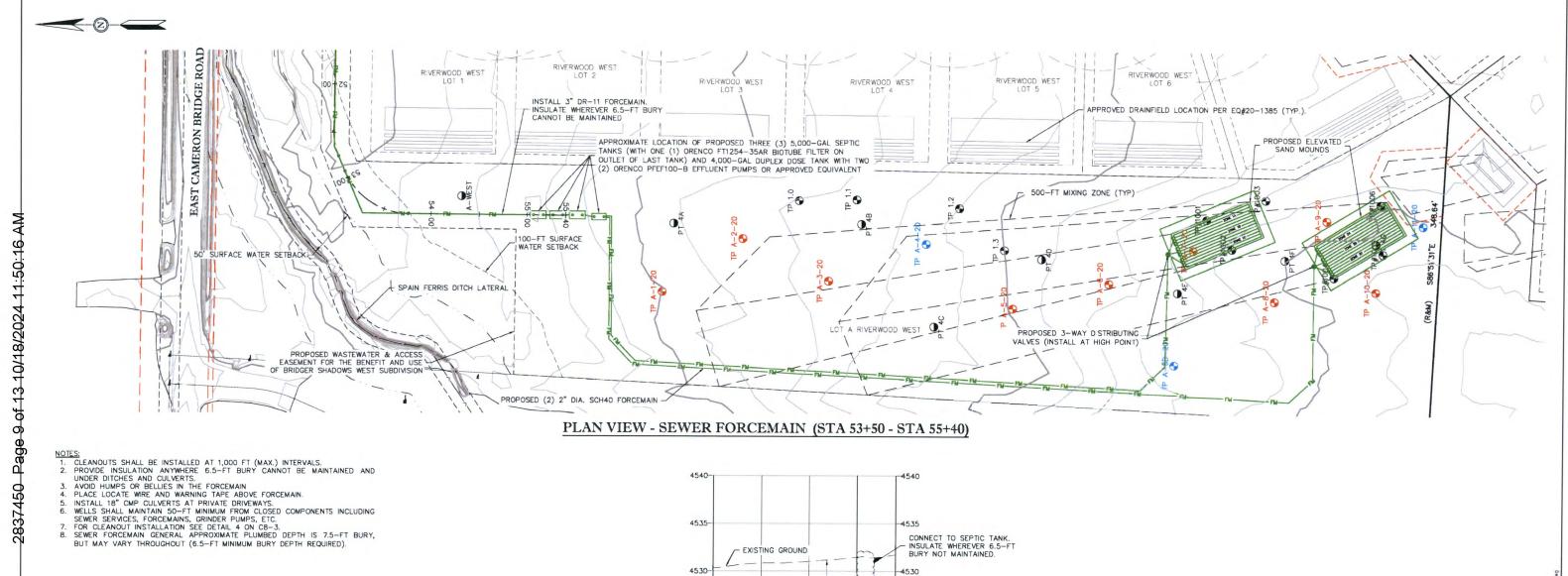
NE 1/4 SEC 19 & NW 1/4 SEC 20, T1S, R5E, P.M.M., GALLATIN COUNTY

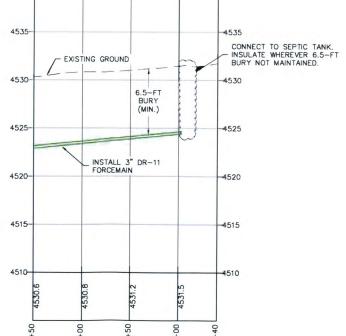
DESIGNED BY: EVR. ARS

REVIEWED BY: MAF

BRIDGER SHADOWS







PROFILE VIEW - SEWER FORCEMAIN (STA 53+50 - STA 55+40)

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REVISIONS DATE PROJECT ENGINEER: MAF DRAWN BY: EVR, ARS DESIGNED BY: EVR, ARS REVIEWED BY: MAF

BRIDGER SHADOWS WEST - PH. 1 SEWER FORCEMAIN- PLAN & PROFILE 32 DISCOVERY DRIVE BOZEMAN, MT 59718 PHONE (406) 582-0221 FAX (406) 582-5770 www.alliedengineering.com

Civil Engineering Geotechnical Engineering Land Surveying

ALLIED

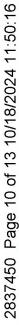
PROJECT #:18-014.20 DATE: 08/01/2023

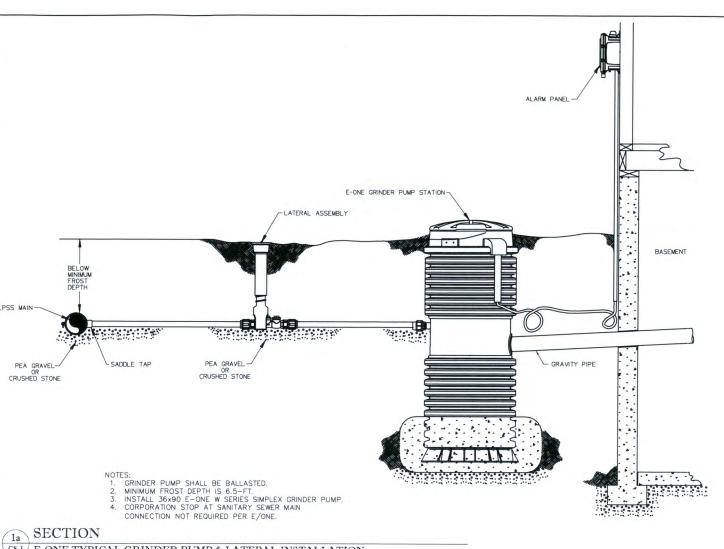
BRIDGER SHADOWS

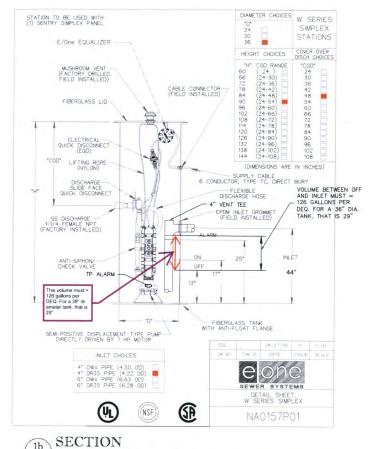
SHEET

C5-6

NE 1/4 SEC 19 & NW 1/4 SEC 20, T1S, R5E, P.M.M., GALLATIN COUNTY







FRP LID. VENTED-HDPE FLANGE NOTES: ALL ITEMS SHOWN IN DASHED LINES ARE FOR REFERENCE ONLY, AND ARE SUPPLIED BY OTHERS

2 DETAIL

PLAN VIEW

VALVE

C8-3 E-ONE AIR RELEASE SYSTEM FOR 6-FT FROST DEPTH NOT TO SCALE

(C8-3) E-ONE TYPICAL GRINDER PUMP & LATERAL INSTALLATION

C8-3 E-ONE GRINDER STATION

NOT TO SCALE

GENERAL NOTES:

- WORK SHALL BE PERFORMED IN ACCORDANCE WITH CIRCULAR DEQ 4, AND GALLATIN COUNTY REGULATIONS.
 CONTRACTOR SHALL BE LICENSED AND QUALIFIED TO INSTALL WASTEWATER TREATMENT SYSTEMS IN GALLATIN COUNTY, MONTANA.
- 3. NO WELLS OR SURFACE WATER EXIST WITHIN 100 FEET OF PRIMARY ABSORPTION AREA OR
- 100% REPLACEMENT AREA.

 4. NO WELLS OR SURFACE WATER EXIST WITHIN 50 FEET OF WASTEWATER TREATMENT
- SYSTEM'S SEALED COMPONENTS.

 5. SURFACE DRAINAGE IS ADEQUATE.

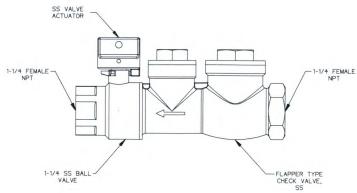
- CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION ACTIVITIES.
 CONTRACTOR TO VERIFY SEWER STUB LOCATIONS PRIOR TO INSTALLATION OF WASTEWATER TREATMENT SYSTEM.
- 3. CONTRACTOR TO FIELD VERIFY ALL APPLICABLE SETBACKS PRIOR TO INSTALLATION OF WASTEWATER TREATMENT SYSTEM. IF ANY DISCREPANCIES ARE DETERMINED BY CONTRACTOR, ENGINEER SHALL BE NOTIFIED IMMEDIATELY IN WRITING.
- TO FEET (MIN.) SEPARATION BETWEEN WATER AND SEWER LINES SHALL BE MAINTAINED.
 THERE IS THREE INCHES (3") OF FALL BETWEEN INLET AND OUTLET OF TANKS. INSTALLER
 TO PROVIDE 1% (MIN.) SLOPE BETWEEN OUTLET OF SEPTIC TANK AND INLET OF DOSE TANK.
 AND DESIGN CHANGES WITH RESPECT TO ORIENTATION, LAYOUT, MATERIALS, ETC. MUST BE

- APPROVED BY ENGINEER.

 THE PRIMARY ABSORPTION AREA HAS BEEN DESIGNED TO COMPLETELY DRAIN TO THE DOSE TANK BETWEEN DOSES. CONTRACTOR SHALL INSTALL FORCEMAIN AT CONSTANT GRADE (I.E. NO HUMPS OR BELLIES) TO ALLOW FOR DRAINAGE.

 CONTRACTOR SHALL INSULATE ALL APPLICABLE WASTEWATER TREATMENT SYSTEM COMPONENTS TO PROHIBIT FREEZING OF ANY AND ALL SYSTEM COMPONENTS.

 ALL TANK DETAILS REFLECT STANDARD TANK CONSTRUCTION. CONTRACTOR MAY CHOOSE ALTERNATURE. IF ALTERNATIVE IS CHOSEN, CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO CONSTRUCTION.

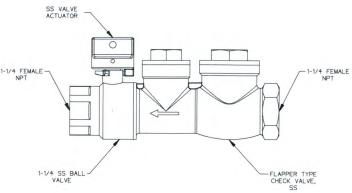


PART IS A BALL VALVE CURB STOP WITH FEMALE PIPE THREADS, VALVE POSITION STOPS (OPEN/CLOSED), AND INTEGRAL CHECK VALVE MATERIAL: STAINLESS STEEL

1. FOR SS FITTING INTO SS THREAD, USE PIPE DOPE OR TEFLON TAPE, NOT BOTH

2. FOR PLASTIC FITTINGS INTO SS THREAD, USE BOTH PIPE DOPE AND 2 LAYERS OF TEFLON TAPE

3 DETAIL C8-3 LATERAL ASSEMBLY (E-ONE)



PRESSURE RATING: 235 PSI

4 DETAIL

PEA GRAVEL OR CRUSHED STONE -

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/ 3" DR-11 SEWER MAIN

(E-ONE) TYPICAL FLUSHING CONNECTION ON SEWER MAIN (E-ONE) NOT TO SCALE

INSULATION

- GRAVEL BEDDING

MAYBE NEEDED (PER ENGINEER)

45' ELBOW

NO.	REVISIONS	DRAWN BY	DATE			
				SCALE AS NOTED		
					1-1000 -00	
				PROJECT ENGINEER: MAF	DRAWN BY: EVR	
				DESIGNED BY: EVR	REVIEWED BY: MAF	
				1		



NOT TO SCALE

BRIDGER SHADOWS WEST - PH. 1 GENERAL DETAILS

NE 1/4 SEC 19 & NW 1/4 SEC 20, T1S, R5E, P.M.M., GALLATIN COUNTY

32 DISCOVERY DRIVE BOZEMAN, MT 59718 PHONE (406) 582-0221 FAX (406) 582-5770 www.alliedengineering.com

VALVE BOX & FULLY PORTED BALL VALVE

Civil Engineering Geotechnical Engineering Land Surveying



DATE: 08/01/2023

BLOCK

(PER ENGINEER)

> SHEET C8-3

BRIDGER SHADOWS **DETAILS**

*INSTALL SAFETY GRATES AT ALL SEPTIC TANK/DOSING TANK OPENINGS. CUT TO FIT AROUND EFFLUENT FILTER HANDLE AND PUMP DISCHARGE PIPING (IF NECESSARY).

 $\frac{\text{ALTERNATE}}{\text{*OWNER MAY INSTALL FIBERGLASS RISERS AND LIDS IN LIEU OF CONCRETE.}}{\text{RISERS AND LIDS (TYPICAL ALL TANKS)}}$

*PRIOR TO PLACEMENT OF TANKS CONTACT ENGINEER IF TANK DEPTHS ARE ANTICIPATED TO EXCEED 4' BURY DEPTH.

LIQUID CONNECTION BETWEEN COMPARTMENTS SHALL CONSIST OF A SINGLE OPENING COMPLETELY ACROSS THE COMPARTMENT WALL OR TWO OR MORE OPENINGS EQUALLY SPACED ACROSS THE WALL. THE TOTAL AREA OF THE OPENINGS SHALL BE AT LEAST THREE TIMES THE AREA OF

ALL SEPTIC AND DOSING TANKS MUST BE TESTED IN ACCORDANCE WITH MDEQ4 CHAPTER 5 FOR WATERTIGHTNESS.

WATER TESTING MUST BE CONDUCTED BY SEALING THE OUTLETS, FILLING THE SEPTIC TANK TO ITS OPERATIONAL LEVEL, AND ALLOWING THE TANK TO STAND FOR AT LEAST 24 HOURS. IF THERE IS A MEASURABLE LOSS (2 INCHES OR MORE), REFILL THE TANK AND LET STAND FOR ANOTHER 24 HOURS. IF THERE IS AGAIN A MEASURABLE LOSS, THE TANK MUST BE REJECTED.

VACUUM TESTING MUST BE CONDUCTED BY SEALING ALL INLETS, OUTLETS, AND ACCESSES, THEN INTRODUCING A VACUUM OF 4 INCHES OF MERCURY, IF THE VACUUM DROPS IN THE FIRST 5 MINUTES IT MUST BE BROUGHT BACK TO 4 INCHES OF MERCURY. IF THE SEPTIC TANK FAILS TO HOLD THE VACUUM AT 4 INCHES OF MERCURY FOR 5 MINUTES, THE TANK MUST BE REJECTED.

DETAIL (PLAN VIEW)

5,000 GALLON SINGLE COMPARTMENT DUPLEX DOSE TANK (NOT TRAFFIC RATED)

24" DIA CONCRETE ACCESS RISER AND 16"X12" CONCRETE LID (HEIGHT TO BE DETERMINED BY INSTALLER PER FIELD INSTALLATION, CLEAR OPENING 17"ø **ACCESS** SPLICE BOX -TYPICAL ALL RISERS) INSULATE FORCEMAIN WHERE 6.5-FT MINIMUM BURY CANNOT BE MAINTAINED SAFFTY GRATE TWO (2) 2" SCH40 DRILL 3/6" WEEP HOLE 21" - 5"ø KNOCKOUTS KNOCKOUT SO ALL CONSEAL AT 0 CHAMBERS ARE HYDRAULICALL CONNECTED FLOAT SETTINGS ON: 28.93" CONCRETE IS 5,000 PSI AT 28 DAYS

TANK MUST BE PLACED ON COMPACTED ¾" ROAD-BASE MATERIAL TO A RELATIVE MINIMUM COMPACTION OF 95%. FLOWABLE BACKFILL SHALL NOT BE ALLOWED.

INLET AND OUTLET HAVE PLASTIC SEAL WHICH ACCEPTS SCH40 SEWER PIPE.

NORMALLY SET IN ONE PIECE

SIDE INLET (KNOCK-OUTS) PROVIDED. ORENCO PFEF100-B SUBMERSIBLE EFFLUENT PUMP (OR APPROVED EQUIVALENT) WITH AN ORENCO SI CONTROL PANEL AND ANCHOR BRAND 10' MINI FLOATS EACH SEGMENT IS POURED MONOLITHICALLY. ALL HANDLES ARE 1/4" SMOOTH STEEL.

24" DIA. TUFF TITE PLAN VIEW

*INSTALL SAFETY GRATES AT ALL SEPTIC TANK/DOSING TANK OPENINGS. CUT TO FIT AROUND EFFLUENT FILTER HANDLE AND PUMP DISCHARGE PIPING (IF NECESSARY).

NOTE: 5,000 GAL TANK SHOWN FOR REFERENCE ONLY CONFIGURATION/SIZE OF SEPTIC TANKS SUBJECT TO CHANGE MINIMUM TOTAL

SEPTIC STORAGE IS

12,000 GAL.

<u>ALTERNATE</u> *OWNER MAY INSTALL FIBERGLASS RISERS AND LIDS IN LIEU OF CONCRETE. RISERS AND LIDS (TYPICAL ALL TANKS)

*PRIOR TO PLACEMENT OF TANKS CONTACT ENGINEER IF TANK

LIQUID CONNECTION BETWEEN COMPARTMENTS SHALL CONSIST OF A SINGLE OPENING COMPLETELY ACROSS THE COMPARTMENT WALL OR TWO OR MORE OPENINGS EQUALLY SPACED ACROSS THE WALL. THE TOTAL AREA OF THE OPENINGS SHALL BE AT LEAST THREE TIMES THE AREA OF THE INLET PIPE.

ALL SEPTIC AND DOSING TANKS MUST BE TESTED IN ACCORDANCE

WITH MDEQ4 CHAPTER 5 FOR WATERTIGHTNESS

WATER TESTING MUST BE CONDUCTED BY SEALING THE OUTLETS, WATER TESTING MUST BE CONDUCTED BY SEALING THE COTTESTS,
FILLING THE SEPTIC TANK TO ITS OPERATIONAL LEVEL, AND
ALLOWING THE TANK TO STAND FOR AT LEAST 24 HOURS. IF
THERE IS A MEASURABLE LOSS (2 INCHES OR MORE), REFILL THE
TANK AND LET STAND FOR ANOTHER 24 HOURS. IF THERE IS AGAIN A MEASURABLE LOSS, THE TANK MUST BE REJECTED.

VACUUM TESTING MUST BE CONDUCTED BY SEALING ALL INLETS, OUTLETS, AND ACCESSES, THEN INTRODUCING A VACUUM OF 4 INCHES OF MERCURY, IF THE VACUUM DROPS IN THE FIRST 5 MINUTES IT MUST BE BROUGHT BACK TO 4 INCHES OF MERCURY. IF THE SEPTIC TANK FAILS TO HOLD THE VACUUM AT 5 INCHES OF MERCURY FOR 5 MINUTES, THE TANK MUST BE REJECTED.

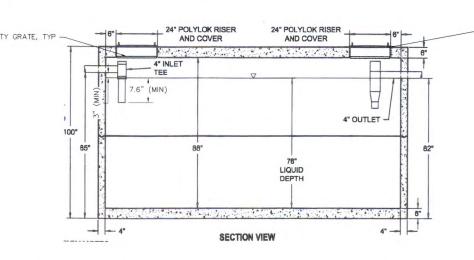
- NOTES:

 QUANTITY AND LOCATION OF RISERS & LIDS PENDING.
- SAFETY GRATES SHALL BE INSTALLED AT ALL TANK LID LOCATIONS. A HIGH LEVEL ALARM SHALL BE
- INSTALLED
- EFFLUENT FILTER SHALL BE INSTALLED AT PIPE OUTLET LOCATION.
 SEE PLANS FOR PIPE INVERTS AT
- SEE PLANS FOR PIPE INVERTS AT INLET & OUTLIET LOCATIONS.

 SEE PLANS FOR PROPOSED BURY DEPTH OF TANK. INSTALLER SHALL COORDINATE WITH MANUFACTURER & ENGINEER REGARDING BACKFILL ENGINEER REGARDING BACKFILL MATERIAL AND ALTERNATE TANK
- LOCATION(S).
 TUFF-TITE T-BAFFLE SHALL
 INSTALLED AT TANK INLET INLET (OR APPROVED EQUIVALENT).

DETAIL (SECTION VIEW) - SEPTIC TANK

(C8-4) 5,000 GALLON CONCRETE SEPTIC TANK (NOT TRAFFIC RATED) NOT TO SCALE



24" DIA. CONCRETE ACCESS RISER AND CONCRETE LID, TYP. (HEIGHT TO BE DETERMINED BY INSTALLER PER FIELD INSTALLATION, TYPICAL ALL

- SEPTIC TANK DIMENSIONS HAVE BEEN SUPPLIED BY MONTANA PRE-CAST CONCRETE LLC (MISSOULA, MT). CONTRACTOR MAY PROPOSE TO USE ALTERNATIVE SUPPLIER, IN WHICH CASE CONTRACTOR SHALL SUBMIT STANDARD SEPTIC TANK DETAILS PER SUPPLIERS PROPOSED CONSTRUCTION PRIOR TO INSTALLATION.

 CONTRACTOR SHALL BALLAST TANK IF HIGH GROUNDWATER OR POTENTIAL SIGNS OF HIGH GROUNDWATER ARE ENCOUNTERED DURING FIELD EXCAVATION.

 THREE (3) 5,000—GALLON TANKS SHALL BE USED, WITH BAFFLE IN OUTLET OF FIRST TWO TANKS AND EFFLUENT FILTER IN OUTLET OF THIRD TANK TO DOSE TANK. INLET BAFFLE INSTALLED IN ALL THREE TANKS.

 INSTALL INLET TEES PER CIRCULAR DEQ-4 5.1.3.

 WE RECOMMEND THE USE OF A HIGH LEVEL ALARM.

DETAIL (SECTION VIEW) - SEPTIC TANK

- CONCRETE IS 5000 PSI © 28 DAYS. CEMENT IS TYPE V, WITH MAX C3A OF 8%, PER MT DEQ-4. 2. SET IN PLACE W/CONSEAL CS-102 OR CS-202. REINFORCEMENT PER ENGINEER. MAXIMUM EARTH COVER IS 6'-0" FEET.

- THIS TANK MUST BE PLACED ON COMPACTED 3/4" ROAD-BASE OR SIMILAR MATERIAL. MINIMUM RELATIVE COMPACTION IS 95% DO NOT USE FLOWABLE BACKFILL MATERIALS SUCH AS 3/4" WASHED GRAVELS.
- TANK MUST BE BACKFILLED TO TOP BEFORE WATER TESTING

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Gallatin County, Montana EQ#22-1942 GCCHOA #24-038

Civil Engineering BOZEMAN, MT 59718

PHONE (406) 582-0221 FAX (406) 582-5770 Geotechnical Engineering Land Surveying www.alliedengineering.co



PROJECT #:18-014.20 DATE: 08/01/2023

SHEET

BRIDGER SHADOWS

REVISIONS DRAWN BY DATE SCALE AS NOTED PROJECT ENGINEER: MAF DESIGNED BY: EVR

C8-4 5,000 GALLON SINGLE COMPARTMENT DUPLEX DOSE TANK (NOT TRAFFIC RATED)

. ALL HANDLES AND 17 STORM IS 32,000 LBS.

3. WEIGHT OF TANK IS 32,000 LBS.

3. ACTUAL CAPACITY = ±4,000 GALLONS.

0. MAXIMUM EARTH COVER IS 6 FEET.

1. CONTRACTOR SHALL BALLAST TANK IF HIGH GROUNDWATER OR POTENTIAL SIGNS OF HIGH

GROUNDWATER ARE ENCOUNTERED DURING FIELD EXCAVATION.

12. DOSE TANK DIMENSIONS HAVE BEEN SUPPLIED BY THREE FORKS READY MIX (THREE FORKS, MT).

CONTRACTOR MAY PROPOSE TO USE ALTERNATIVE SUPPLIER, IN WHICH CASE CONTRACTOR SHALL SUBMIT STANDARD TANK DETAILS PRIOR TO INSTALLATION.

DETAIL (SECTION VIEW)

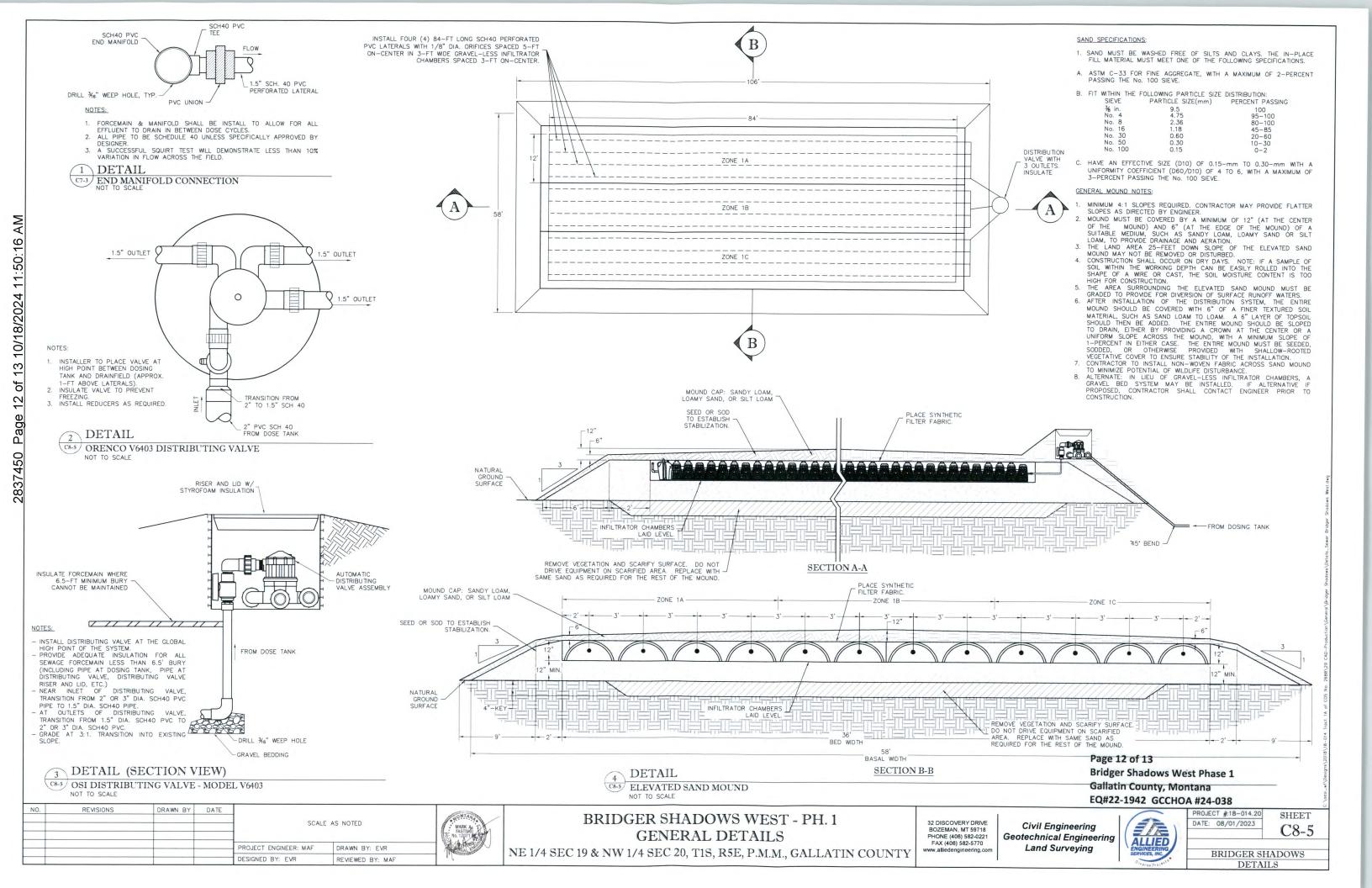
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BRIDGER SHADOWS WEST - PH. 1 GENERAL DETAILS

NE 1/4 SEC 19 & NW 1/4 SEC 20, T1S, R5E, P.M.M., GALLATIN COUNTY

5,000 GALLON CONCRETE SEPTIC TANK (NOT TRAFFIC RATED)



NE 1/4 SEC 19 & NW 1/4 SEC 20, T1S, R5E, P.M.M., GALLATIN COUNTY

PROJECT ENGINEER: MAF

DESIGNED BY: ARS

DRAWN BY: ARS

REVIEWED BY: MAF

Land Surveying

BRIDGER SHADOWS

FIRE PROTECTION