



OREGON
DEPARTMENT OF
AGRICULTURE

CONFINED ANIMAL FEEDING OPERATION CONSTRUCTION APPROVAL REQUEST

I would like to request approval for the following construction plans.

I plan on building a Manure Stormwater Runoff Storage Pond at my
(construction type)

facility located at 8976 SW Green Dr Culver OR 97734
(address, city, zip code)

Columbia River Ranch is responsible for the planning and/or construction of
(person/organization)
this structure.

Additional information and/or comments: Lots by # and Size 1=13.80, 2=42.96, 3=1.91
4=1.2, 5=1.57, 6=8.08, 7=.27, 8=.81, 9=.67, 10=1.04, 11=1.03, 12=1
13=1.17, 14=2.07, Ponds by # and Size 1, 100x80x4
2, 125x100x6, 3, 150x130x9 4, 100x77x7

Attached are the completed documents required for construction approval.

- Site map including the location of the proposed structure(s)
- Engineer-stamped drawing of the proposed manure storage structure(s)
- Operation and maintenance for the proposed manure storage structure(s)

Signature Gary M Bailey Pres. Date 2-27-25

Phone: (503)-369-1907 E-mail: columbia.cattle@gmail.com

FOR ODA USE ONLY:

MA#: 994448

LOG#: 25001

COUNTY: Jefferson

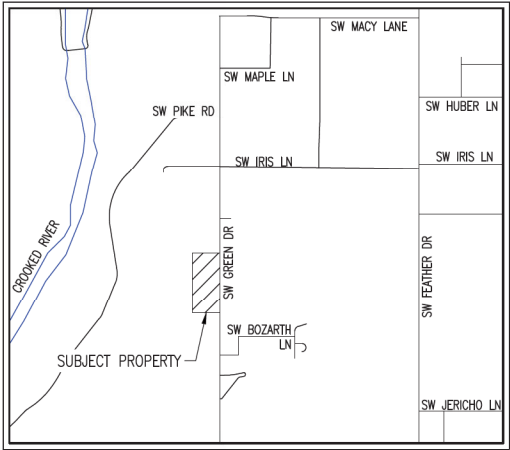
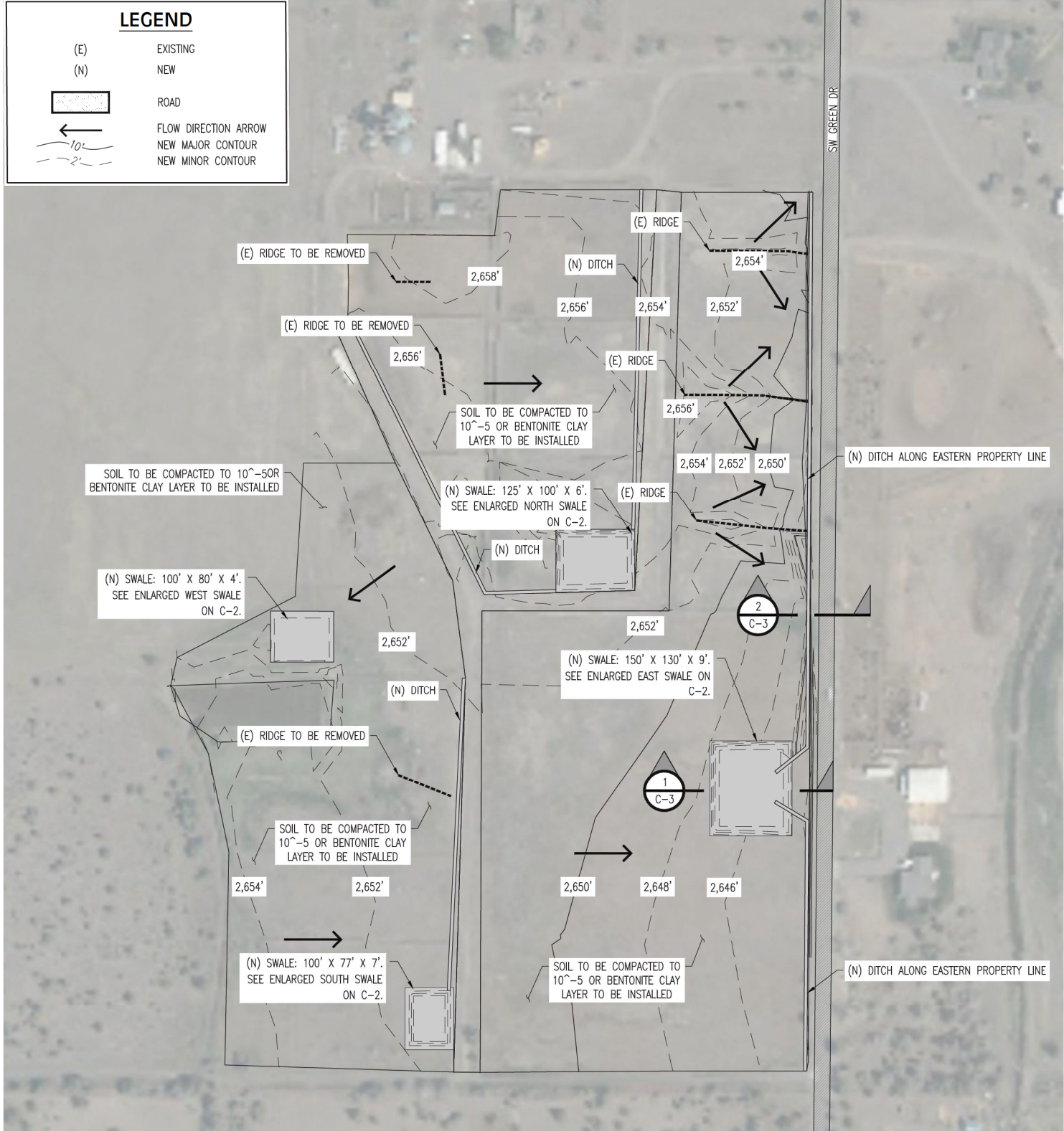
STATUS: Approved

DATE: 5-1-25

REVIEWED BY: out (initials)

CATTLE RANCH EVAPORATION PONDS

GARY BAILEY
CULVER, OR 97734



VICINITY MAP
SCALE: NTS

DRAWING INDEX	
DRAWING NUMBER	DESCRIPTION
D-3370-G-1	PROPOSED SITE PLAN
D-3370-C-1	EXISTING CONDITIONS PLAN
D-3370-C-2	ENLARGED SWALE PLANS
D-3370-C-3	CROSS SECTIONS AND NOTES

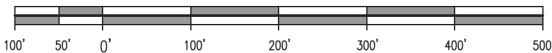
NOTE:
CONTRACTOR IS RESPONSIBLE FOR REACHING REQUIRED COMPACTION OR
INSTALLING A BENTONITE LINER, CLAY LINER, OR A PLASTIC LINER WHERE
REQUIRED COMPACTION CAN NOT BE REACHED TO ENSURE THAT NO
INFILTRATION OCCURS.

PROJECT TEAM

OWNER
COLUMBIA RIVER RANCH
8976 SW GREEN DRIVE
CULVER, OR 97734
PHONE: (503) 369-1907
CONTACT: GARY BAILEY
COLUMBIA.CATTLE@GMAIL.COM

ENGINEER
LOWER COLUMBIA ENGINEERING, LLC
58640 McNULTY WAY
ST. HELENS, OR 97051
PHONE: (503) 366 0399
ENGINEER: ANDREW NIEMI, P.E.
ANDREW@LOWERCOLUMBIAENGR.COM
CONTACT: LILLIANNA ADAMS, EIT
LILLIANNA@LOWERCOLUMBIAENGR.COM

PROPOSED SITE PLAN
SCALE: 1" = 100'



DATE: 12/28/2023
REVISED PRINT
VOID ALL PREVIOUS

DATE: 11/10/2023
PRELIMINARY
NOT
FOR CONSTRUCTION

REV.	REVISION RECORD	DATE
A	UPDATES PER ODA COMMENTS	12/18/2023



PROJ. NO.	3370	PROPOSED SITE PLAN & VICINITY MAP	
DWG. BY	LA	CATTLE RANCH EVAPORATION PONDS	
APPR. BY	GARY BAILEY	SHEET	
FILE	D-3370-G-1-A	DATE	11/09/2023

G-1



(E)

(N)

EXISTING

NEW

ROAD

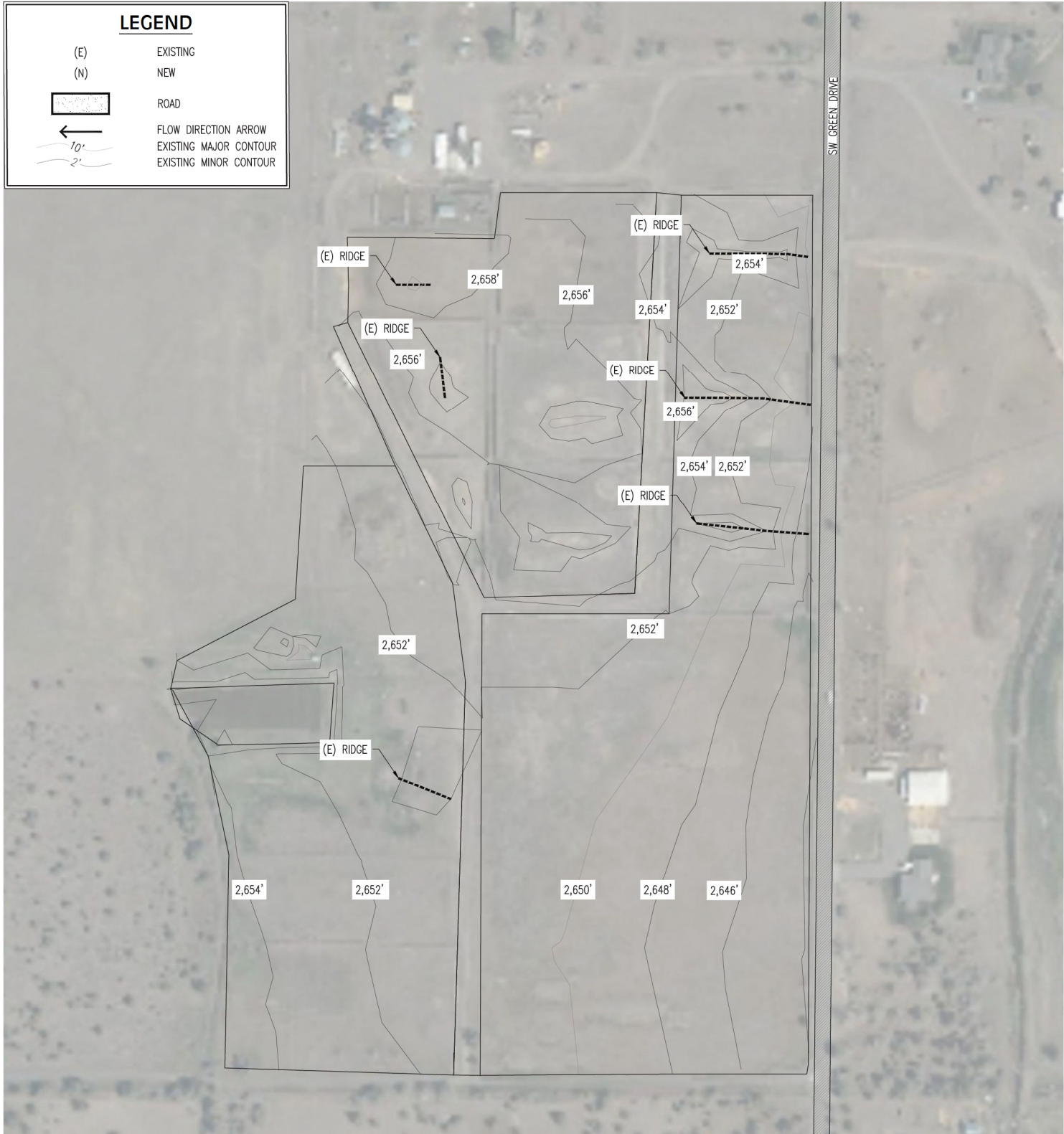
FLOW DIRECTION ARROW

EXISTING MAJOR CONTOUR

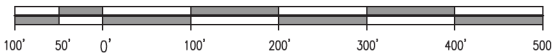
EXISTING MINOR CONTOUR

10'

2'



EXISTING SITE PLAN
SCALE: 1" = 100'



DATE: 11/29/2023
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FOR CONSTRUCTION

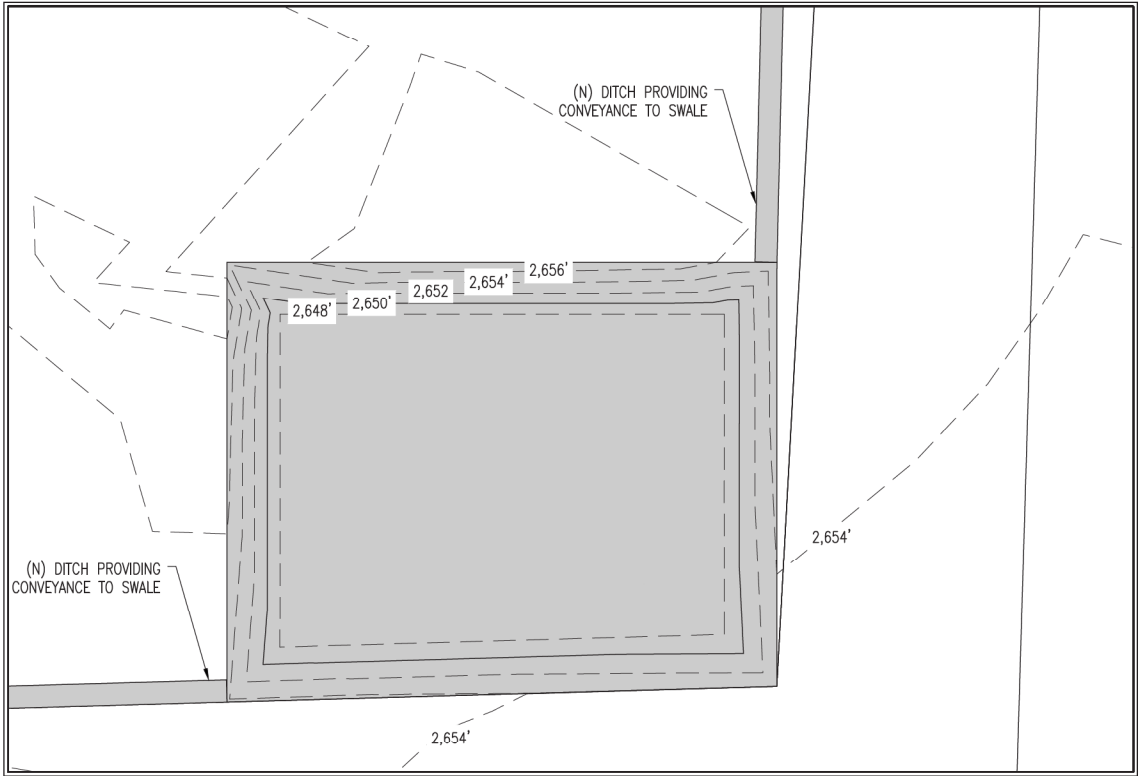
REV.	REVISION RECORD	DATE

Lower
Columbia
Engineering

St. Helens, Oregon
(503) 366-0399

PROJ. NO.	3370	EXISTING CONDITIONS	
DWG. BY	LA	CATTLE RANCH EVAPORATION PONDS	
APPR. BY	GARY BAILEY	SHEET	
FILE	D-3370-C-1	DATE	11/09/2023

C-1



NORTH SWALE
SCALE: 1" = 20'

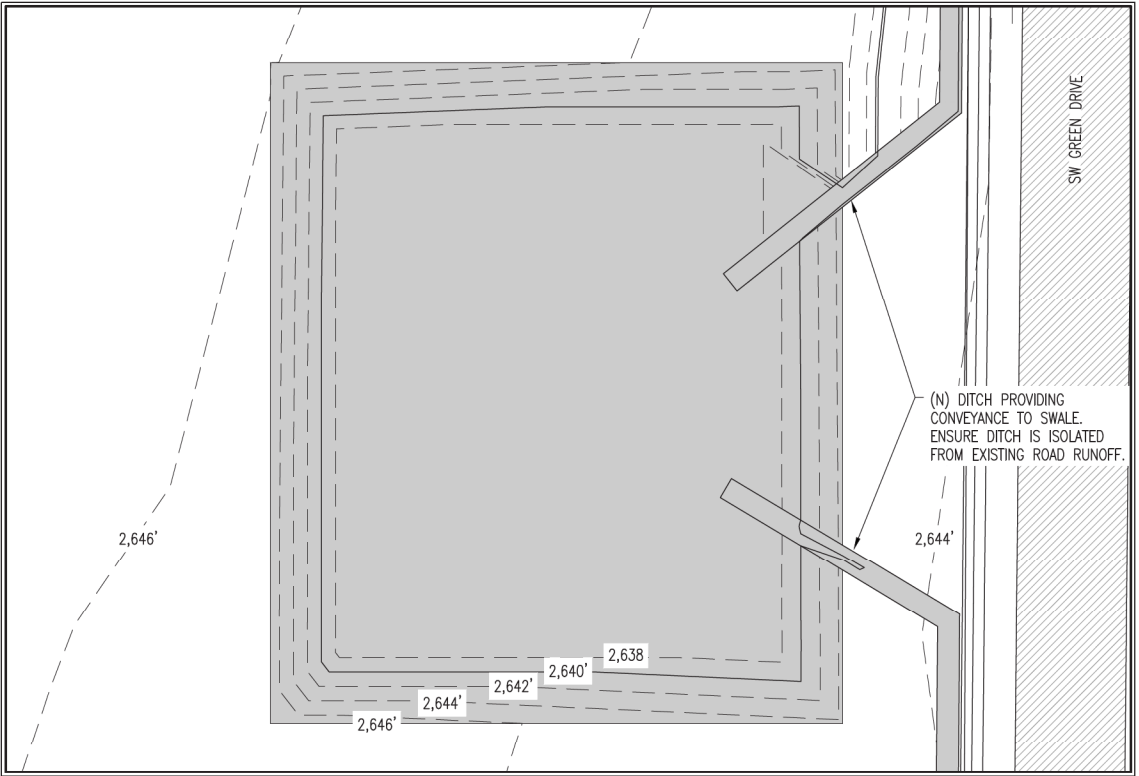


LEGEND

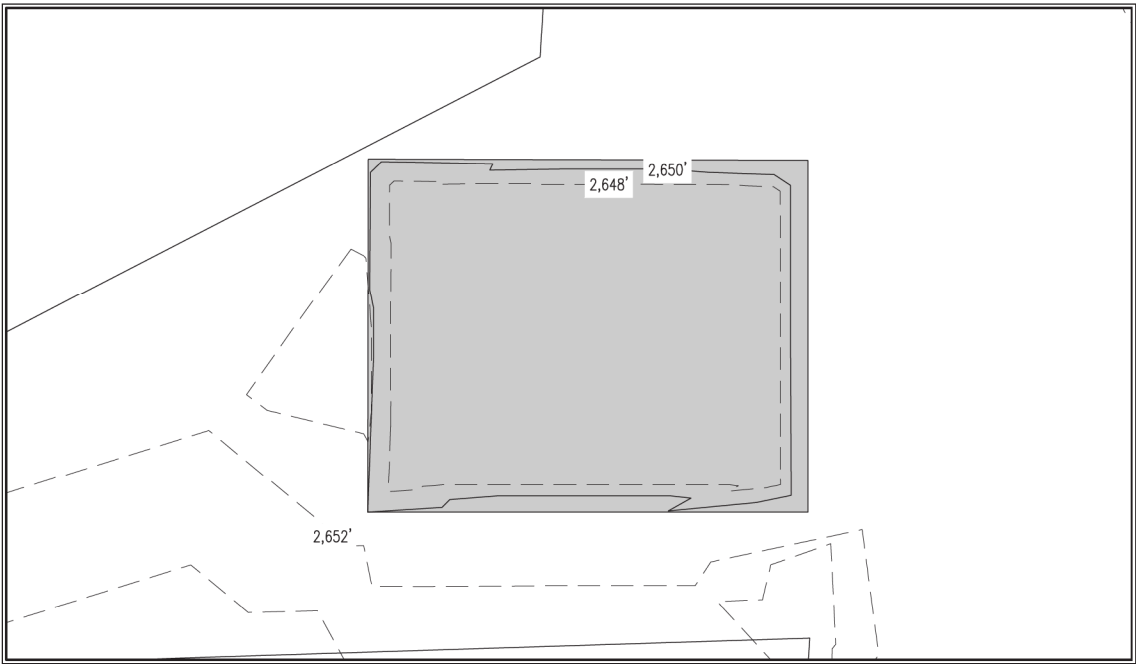
(E) EXISTING
(N) NEW

ROAD

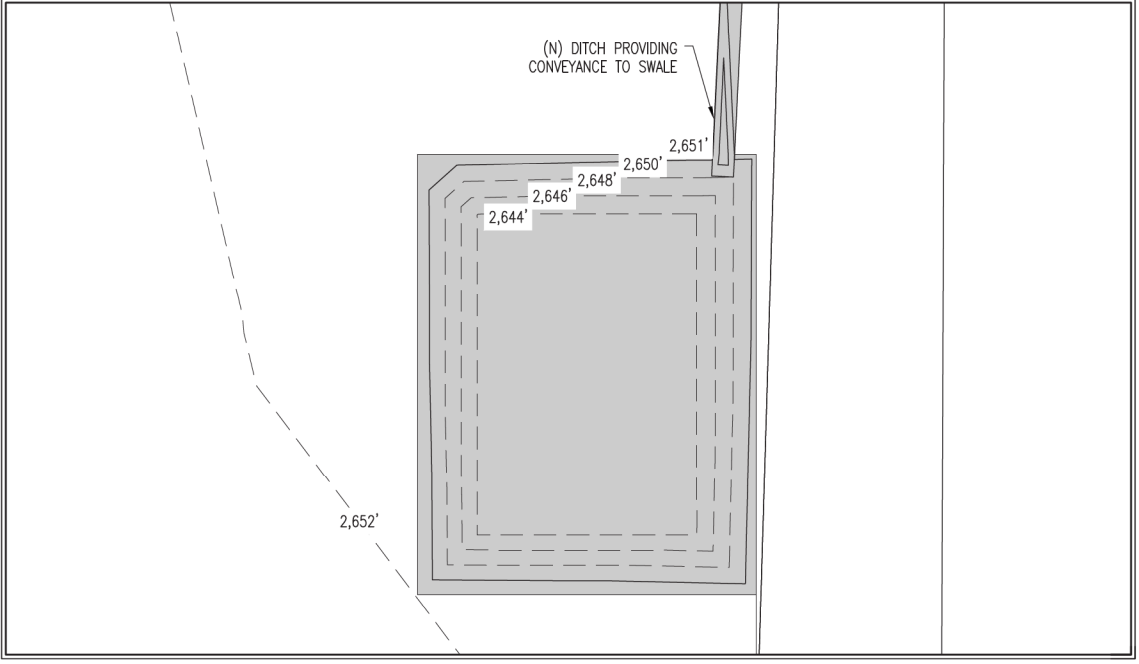
FLOW DIRECTION ARROW
NEW MAJOR CONTOUR
NEW MINOR CONTOUR



EAST SWALE
SCALE: 1" = 20'



WEST SWALE
SCALE: 1" = 20'



SOUTH SWALE
SCALE: 1" = 20'



NOTE:
CONTRACTOR IS RESPONSIBLE FOR REACHING REQUIRED COMPACTION AMOUNT OR INSTALLING A BENTONITE LINER, CLAY LINER, OR A PLASTIC LINER WHERE REQUIRED COMPACTION CAN NOT BE REACHED TO ENSURE THAT NO INFILTRATION OCCURS.

DATE: 11/10/2023
**PRELIMINARY
NOT
FOR CONSTRUCTION**

REV.	REVISION RECORD	DATE

Lower Columbia Engineering
St. Helens, Oregon
(503) 366-0399

PROJ. NO. 3370	ENLARGED SWALE PLAN	
DWG. BY LA	CATTLE RANCH EVAPORATION PONDS	
APPR. BY	GARY BAILEY	SHEET
FILE D-3370-C-2	DATE 11/09/2023	C-2

REGISTERED PROFESSIONAL ENGINEER
54787PE
OREGON
JULY 8, 2001
ANDREW DARRIN NIEMI
EXPIRES: DECEMBER 31, 2026



Technical Memorandum

To: Gary Bailey, Columbia River Ranch
From: Lillianna Adams, EIT
Date: November 14, 2023
Project: Culver Feed Lot
Re: Operations and Maintenance
Job No: 3370

INTRODUCTION

Columbia River Ranch is starting a beef feedlot located off of SW Green Drive near Culver, Oregon. The beef feedlot is approximately 25 acres. This operation and maintenance plan is focused on how the feedlots stormwater runoff is stored.

OPERATIONS

There are 4 manure ponds to be installed onsite. The installed ponds all use either gravity runoff directly into the ponds or a combination with ditches. These ponds have all been sized to handle the 25-year 24-hour storm event which is 2 inches of rain, as well as the 120 days prior. These ponds are expected to evaporate most of the water during the dry months.

MAINTENANCE

The ponds and ditches will need routine maintenance to keep the design depth. This will look like digging out solids that have accumulated on the bottom of the ditch. These should be handled similarly to the manure off the fields. When excavating out accumulated solids, caution shall be taken to ensure the liner and/or compacted soils are not disturbed. If they are, then reinstall or recompact as specified on the design sheet.

Please let us know of any questions.

Lillianna Adams

Lillianna Adams, EIT
Ecological Engineer

UTILITY LOCATES

(48 HOUR NOTICE PRIOR TO EXCAVATION)

OREGON LAW REQUIRES YOU TO FOLLOW THE RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH 952-001-0100. (YOU MAY OBTAIN COPIES OF THE RULES ROM THE CENTER BY CALLING 503 246 1987.)

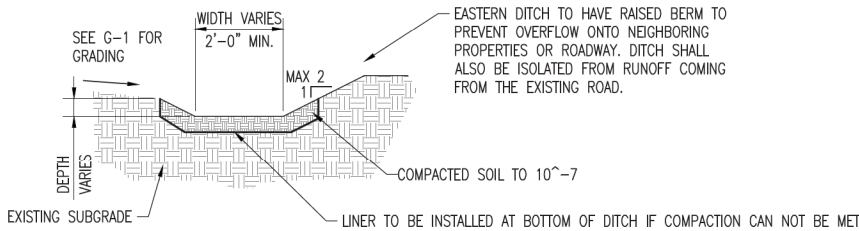
ONE CALL SYSTEM.....1 800 332 2344
ON LINE <http://www.callbeforeyoudig.org/>

GRADING NOTES

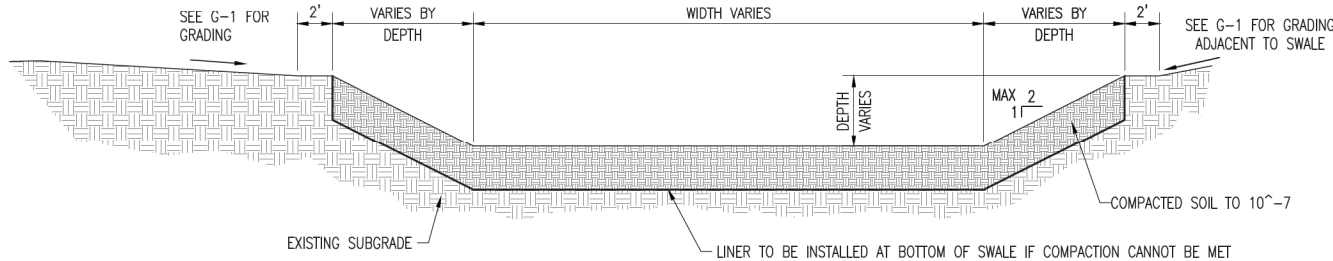
- SLOPES ARE NOT TO EXCEED 2:1
- CONTRACTOR IS RESPONSIBLE FOR REACHING REQUIRED COMPACTION AMOUNT OR INSTALLING A BENTONITE LINER, CLAY LINER, OR A PLASTIC LINER WHERE REQUIRED COMPACTION CAN NOT BE REACHED TO ENSURE THAT NO INFILTRATION OCCURS.
- ALL EXCESS & OTHER UNWANTED EXCAVATION MATERIALS GENERATED AFTER SITE DEVELOPMENT IS COMPLETED SHALL BE TRANSPORTED OFF-SITE AND DISPOSED IN AN APPROVED MANNER.
- SFDIMFNT CONTROLS MUST RF INSTAILED AND MAINTAINFD ON ALL DOWN GRADIENT SIDES OF THE CONSTRUCTION SITE AT ALL TIMES DURING CONSTRUCTION. THEY MUST REMAIN IN PLACE UNTIL PERMANENT VEGETATION OR OTHER PERMANENT COVERING OF EXPOSED SOIL IS ESTABLISHED.
- SIGNIFICANT AMOUNTS OF SEDIMENT WHICH LEAVES THE SITE MUST BE CLEANED UP WITHIN 24 HOURS AND PLACED BACK ON THE SITE AND STABILIZED OR PROPERLY DISPOSED. THE CAUSE OF THE SEDIMENT RELEASE MUST BE FOUND AND PREVENTED FROM CAUSING A RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. ANY IN-STREAM CLEAN UP OF SEDIMENT SHALL BE PREFORMED ACCORDING TO THE OREGON DEPARTMENT OF STATE LANDS REQUIRED TIME FRAME.
- SEDIMENT MUST NOT BE INTENTIONALLY WASHED INTO STORM SEWERS, DRAINAGE WAYS, OR WATER BODIES.
- SEDIMENT MUST BE REMOVED FROM BEHIND ALL SEDIMENT CONTROL MEASURES WHEN IT HAS REACHED A HEIGHT OF 1/3RD THE BARRIER HEIGHT, AND PRIOR TO THE CONTROL MEASURES REMOVAL.
- ANY USE OF TOXIC OR OTHER HAZARDOUS MATERIALS MUST INCLUDE PROPER STORAGE, APPLICATION, AND DISPOSAL.
- THE PERMITTEE MUST PROPERLY MANAGE HAZARDOUS WASTES, USED OILS, CONTAMINATED SOILS, CONCRETE WASTE, SANITARY WASTE, LIQUID WASTE, OR OTHER TOXIC SUBSTANCES DISCOVERED OR GENERATED DURING CONSTRUCTION.
- THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS. NUTRIENT RELEASES FROM FERTILIZERS TO SURFACE WATERS MUST BE MINIMIZED. TIME RELEASE FERTILIZERS SHOULD BE USED AND CARE SHOULD BE MADE IN APPLICATION OF FERTILIZERS WITHIN ANY WATER WAY RIPARIAN ZONE.
- WATER-TIGHT TRUCKS MUST BE USED TO TRANSPORT SATURATED SOILS FROM THE CONSTRUCTION SITE. AN APPROVED EQUIVALENT IS TO DRAIN THE SOIL ON SITE AT A DESIGNATED LOCATION USING APPROPRIATE BMPS; SOIL MUST BE DRAINED SUFFICIENTLY FOR MINIMAL SPILLAGE.
- ALL PUMPING OF SEDIMENT LADEN WATER MUST BE DISCHARGED OVER AN UNDISTURBED, PREFERABLY VEGETATED AREA, AND THROUGH A SEDIMENT CONTROL BMP (I.E. FILTER BAG).
- IN AREAS SUBJECT TO WIND EROSION, APPROPRIATE BMPS MUST BE USED WHICH MAY INCLUDE THE APPLICATION OF FINE WATER SPRAYING, PLASTIC SHEETING, MULCHING, OR OTHER APPROVED MEASURES.

GENERAL NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE PROJECT PLANS AND SPECIFICATIONS AND SHALL BE IN ACCORDANCE WITH THE MOST CURRENT VERSION OF THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION AT THE DATE PROJECT WAS FIRST ADVERTISED FOR BID. THE JEFFERSON COUNTY OREGON ENGINEERING STANDARDS, OREGON DEQ, OREGON STATE HEALTH DEPARTMENT, AND AWWA STANDARD PLANS AND SPECIFICATIONS, SHALL APPLY AS APPLICABLE.
- ANY CHANGES FROM APPROVED PLANS SHALL BE APPROVED IN WRITING BY THE CITY AND THE APPROPRIATE AGENCIES. COMPLEXITY OF MODIFICATIONS WILL DETERMINE IF REVISED PLANS ARE REQUIRED.
- CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF ORS 757.541 TO 757.571, AND SHALL NOTIFY EACH UNDERGROUND UTILITY AT LEAST 2 BUSINESS DAYS, BUT NOT MORE THAN 10 BUSINESS DAYS, PRIOR TO EXCAVATING, BORING, OR POTHOLING.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE OSSC, OFC, OPSC, OMSC, A.I.S.C., A.C.I. AND U.P.C. CODES AS WELL AS WITH THE OREGON CHAPTER OF APWA, DEQ, OREGON STATE HEALTH DEPARTMENT, AWWA AND JEFFERSON STANDARDS AS APPLICABLE.
- DO NOT SCALE DRAWINGS.
- ALL BACK FILL SHALL BE EVENLY PLACED IN LAYERS NOT EXCEEDING 8" IN DEPTH AND COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY. REMOVE ANY STANDING WATER PRIOR TO BACK FILLING.
- PRIOR TO ANY CONSTRUCTION, LOCATIONS OF ALL APPROPRIATE EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR. WHEN ACTUAL CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- ANY UNCERTAINTIES SHALL BE ADDRESSED PRIOR TO PROCEEDING, LOWER COLUMBIA ENGINEERING IS NOT RESPONSIBLE FOR THE PROPER IMPLEMENTATION OF THE SPECIFICATIONS CONTAINED ON THESE DRAWINGS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY SUPPORT OF STRUCTURE AND EMBANKMENTS.
- ALL ORGANIC AND UNDESIRABLE MATERIAL SHALL BE REMOVED FROM THE CONSTRUCTION AREA.
- CONTRACTOR SHALL LEAVE ALL AREAS OF PROJECT FREE OF DEBRIS AND UNUSED CONSTRUCTION MATERIAL.
- ANY REQUIRED EASEMENTS, PROPERTY LINE ADJUSTMENTS AND PERMITS ARE THE RESPONSIBILITY OF OTHERS. CONTACT PROFESSIONAL SURVEYOR TO COORDINATE REQUIRED EASEMENTS. ALL EASEMENTS SHALL BE RECORDED BEFORE PROJECT FINALIZATION. DOCUMENTATION OF PERMISSION TO CONSTRUCT ON ADJACENT PROPERTY.
- ELEVATIONS SHOWN ARE IN NAVD88. TOPOGRAPHIC INFORMATION SHOW DOES NOT CONSTITUTE LEGAL LAND SURVEY. DISCREPANCIES WITH SURVEY DATA EXIST OF APPROXIMATELY ONE FOOT HORIZONTALLY. CONTACT SURVEYOR WITH ANY QUESTIONS.
- PROPOSED BUILDING LOTS & UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED. CONTRACTOR SHALL PROVIDE LOWER COLUMBIA ENGINEER WITH AS-BUILT INFORMATION, INCLUDING: ALL PIPE SIZES & INVERT ELEVATIONS ACCURATE WITHIN 0.10 FEET OF ACTUAL VERTICAL AND HORIZONTAL LOCATION.
- ONE SET OF PLANS SHALL BE KEPT ON SITE DURING ALL CONSTRUCTION, ANY CHANGES OR MODIFICATIONS SHALL BE NOTED AND KEPT AS REDLINE DRAWINGS.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY CITY, COUNTY, STATE AND UTILITY CONSTRUCTION PERMITS AND SHALL CONTACT EACH PERMITTING AGENCY AT LEAST 2 BUSINESS DAYS, BUT NOT MORE THAN 10 BUSINESS DAYS, PRIOR TO STARTING WORK. CONTRACTOR SHALL OBTAIN ALL REQUIRED LICENSES BEFORE STARTING CONSTRUCTION.
- STREETS AND ROADS MAY REMAIN IN A DISTURBED STATE FOR NO LONGER THAN ONE WEEK. ALL CRUSHED ROCK AND CONSTRUCTION DEBRIS MUST BE CLEANED FROM EXISTING SURFACES ON AN ONGOING BASIS
- BEDDING AND PIPE ZONE BACKFILL REQUIREMENTS WILL BE IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS, AND DETAILS.
- ALL DRAINAGE PIPES SHALL MEET THE REQUIREMENTS OF THE CURRENT PLUMBING CODE.



2 DITCH CROSS SECTION
C-3 SCALE: NTS

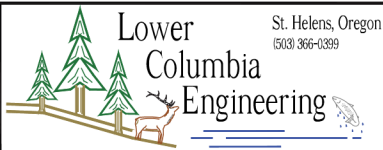


1 SWALE CROSS SECTION
C-3 SCALE: NTS



DATE: 12/21/2023
PRELIMINARY
NOT
FOR CONSTRUCTION

REV.	REVISION RECORD	DATE



PROJ. NO. 3370	CROSS SECTIONS AND NOTES
DWG. BY LA	CATTLE RANCH EVAPORATION PONDS
APPR. BY GARY BAILEY	SHEET C-3
FILE D-3370-C-3	DATE 12/19/2023