

CIVIL ENGINEERING PLANS

FLATTERY LANE ROAD

DESIGN

GENERAL NOTES:

1. ALL WORK TO CONFORM TO IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPMC) LATEST EDITION AND BONNER COUNTY STANDARDS FOR NEW PRIVATE ROAD CONSTRUCTION.
2. EX. UTILITIES ARE SHOWN BASED ON A LIMITED GROUND SURVEY AND ARE NOT GUARANTEED TO BE COMPLETE AND ACCURATE. UTILITIES ARE TO BE LOCATED BY CALLING "CALL BEFORE YOU DIG" AT 811, AT LEAST 48 HOURS PRIOR TO EXCAVATION.
3. ALL NEW DRIVE APPROACHES MUST BE CONSTRUCTED IN ACCORDANCE WITH THE BONNER COUNTY STANDARDS FOR NEW PRIVATE ROAD CONSTRUCTION.
4. NO REVISIONS SHALL BE MADE TO THE PLANS WITHOUT PRIOR AUTHORIZATION FROM THE ENGINEER. THE CONTRACTOR SHALL DOCUMENT ANY APPROVED REVISIONS AND ANY MINOR CHANGES. DOCUMENTATION TO BE PROVIDED TO THE ENGINEER FOR THE PURPOSE OF COMPLETING "AS-BUILT" DRAWINGS.
5. THE CONTRACTOR IS TO PROVIDE THE ENGINEER WITH A PRELIMINARY CONSTRUCTION SCHEDULE AND PROVIDE 48 HOUR NOTICE TO THE ENGINEER FOR CONSTRUCTION OBSERVATION.
6. CONTRACTOR TO FIELD VERIFY EX. GRADE ELEVATIONS THAT ARE SHOWN AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
7. CONTRACTOR TO RAISE ALL UTILITY BOXES TO GRADE.
8. ALL TOPSOIL AND ORGANICS TO BE REMOVED FROM AREAS WITHIN ROAD SECTION.
9. STORMWATER PIPING TO BE ASTM D3034 SDR 35 PVC WITH ELASTOMERIC GASKET JOINTS AND TO BE INSTALLED PER ISPMC TRENCH DETAIL.

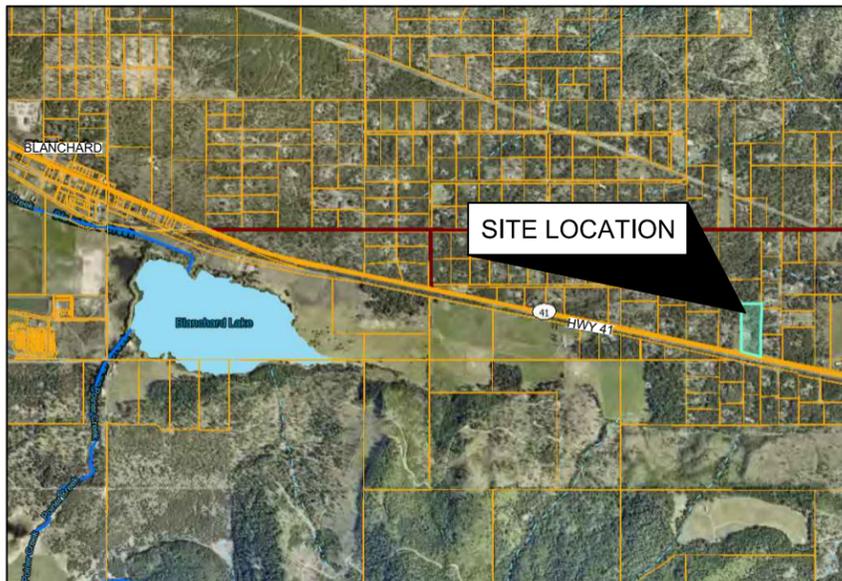
LOTS 1 & 2, BLK 1 OF SORENSON ACRES, SECTION 23,
TOWNSHIP 54 NORTH, RANGE 5 WEST, BOISE
MERIDIAN, BONNER COUNTY, IDAHO

JEFF NEEDS
31899 STATE HWY 41
BLANCHARD, IDAHO 83804

JANUARY 2026
PROJECT NO: CW244

CONSTRUCTION NOTES:

1. AT A MINIMUM, RIGHT-OF-WAY SHALL BE CLEARED FROM TOE OF SLOPE TO TOP OF CUT.
2. CLEARING AND GRUBBING SHALL BE COMPLETED PRIOR TO THE START OF ROAD CONSTRUCTION FOR THE ENTIRE WIDTH OF THE RIGHT-OF-WAY AND SHALL BE PROPERLY DISPOSED OF OUT OF THE RIGHT-OF-WAY AND IN COMPLIANCE WITH STATE AND LOCAL PERMITS.
3. DURING CONSTRUCTION, EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED TO MINIMIZE SOIL EROSION FROM DISTURBED SITES.
4. EXPOSED SLOPES SHALL BE RESEEDED AS SOON AS POSSIBLE AFTER CONSTRUCTION COMPLETION.
5. THE ROAD SUBGRADE SHALL CONSIST OF THE NATIVE MATERIALS REMAINING AFTER ORGANIC MATERIAL AND TOPSOIL HAVE BEEN REMOVED.
6. UNSTABLE SUBGRADE CONDITIONS SHALL BE REMEDIATED BY OVER-EXCAVATION AND BACKFILLING WITH ENGINEER APPROVED MATERIAL OR PLACEMENT OF ENGINEER APPROVED GEOTEXTILE FABRIC.
7. BALLAST SHALL NOT BE PLACED UNTIL TESTING HAS BEEN COMPLETED AND APPROVED ON SUBGRADE.
8. ALL UNDERGROUND UTILITIES AND CONDUITS CROSSING THE ROAD SHALL BE INSTALLED PRIOR TO PLACEMENT OF BALLAST MATERIAL.
9. TOP COURSE SHALL NOT BE PLACED UNTIL TESTING HAS BEEN COMPLETED AND APPROVED ON BALLAST.
10. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS IN PAPER AND ELECTRONIC FORMAT.



VICINITY MAP

INDEX SHEET

- G-1 COVER SHEET
- C-1 OVERALL SITE PLAN
- C-2 PRELIMINARY STORMWATER & EROSION CONTROL PLAN
- C-3 ROAD PLAN AND PROFILE STA 0+00 - 10+81
- D-1 DETAILS
- D-2 EROSION CONTROL DETAILS



**Clearwater
Engineering**
A Limited Liability Company

P.O. Box 2006
Post Falls, ID 83877
Phone: 406.690.5249

PRELIMINARY
NOT FOR
CONSTRUCTION

DRAWING NUMBER G-1

FILE NO: CW 244 - Flattery Lane Road Design

SITE NOTES:

1. ROAD APPROACH SHALL BE CONSTRUCTED TO THE STANDARDS SET FORTH IN SECTION 3 OF THE BONNER COUNTY ROAD STANDARDS MANUAL, 2017 EDITION.

REPLAT OF LOTS 1 & 2 OF SORENSON ACRES

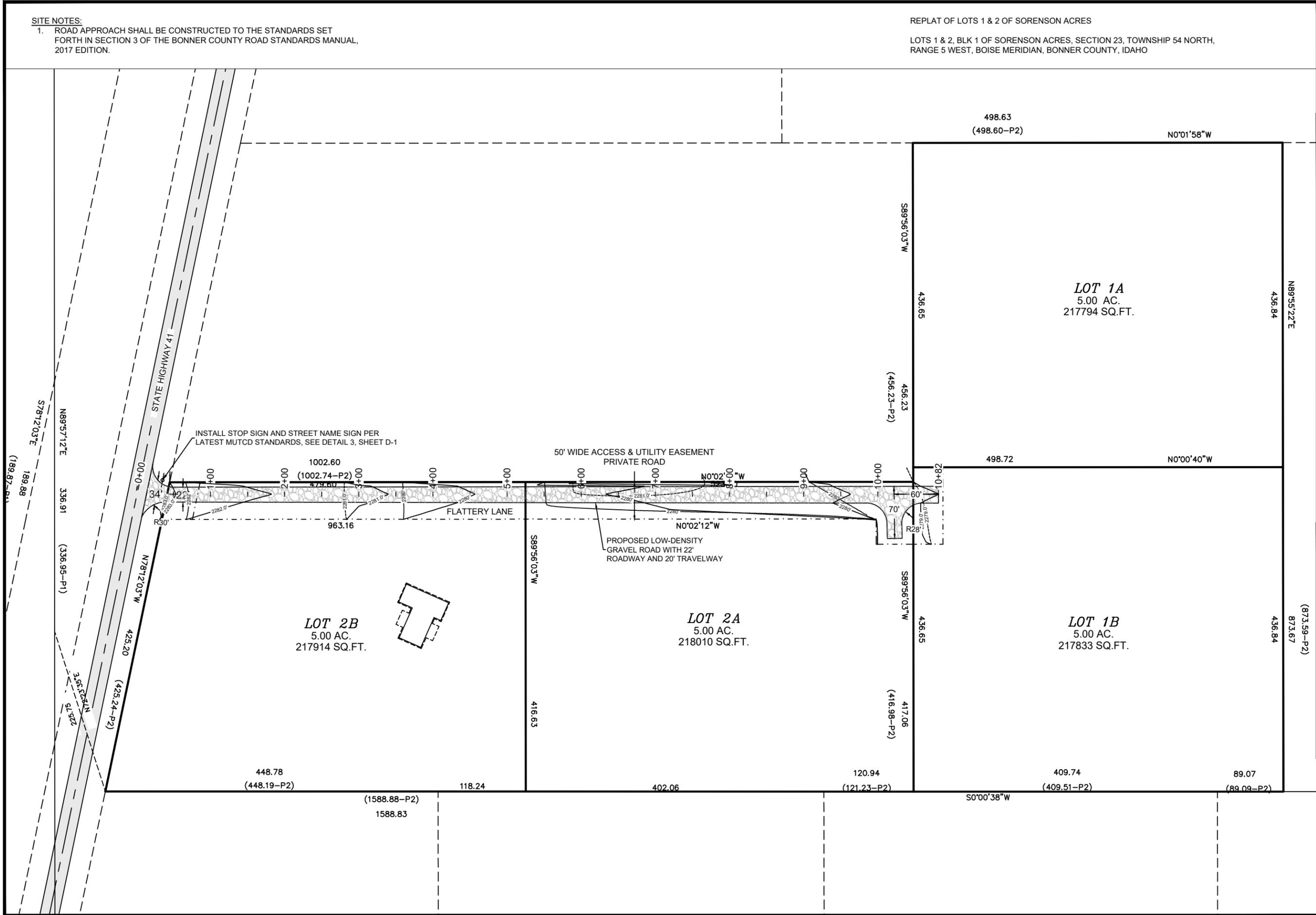
LOTS 1 & 2, BLK 1 OF SORENSON ACRES, SECTION 23, TOWNSHIP 54 NORTH, RANGE 5 WEST, BOISE MERIDIAN, BONNER COUNTY, IDAHO

PRELIMINARY
NOT FOR
CONSTRUCTION

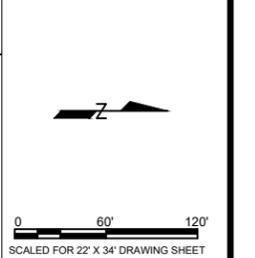
PROJ. NO.:	DATE:
02/24	
DWN. BY:	BY:
NMC	
DATE:	
1/8/26	
2 OF 6 SHEET	
C-1	

FLATTERY LANE ROAD DESIGN

OVERALL SITE PLAN



Clearwater Engineering
A Limited Liability Company
clearwaterengineeringidaho.com
P.O. Box 2006
Post Falls, ID 83877
Phone: 406.690.5249

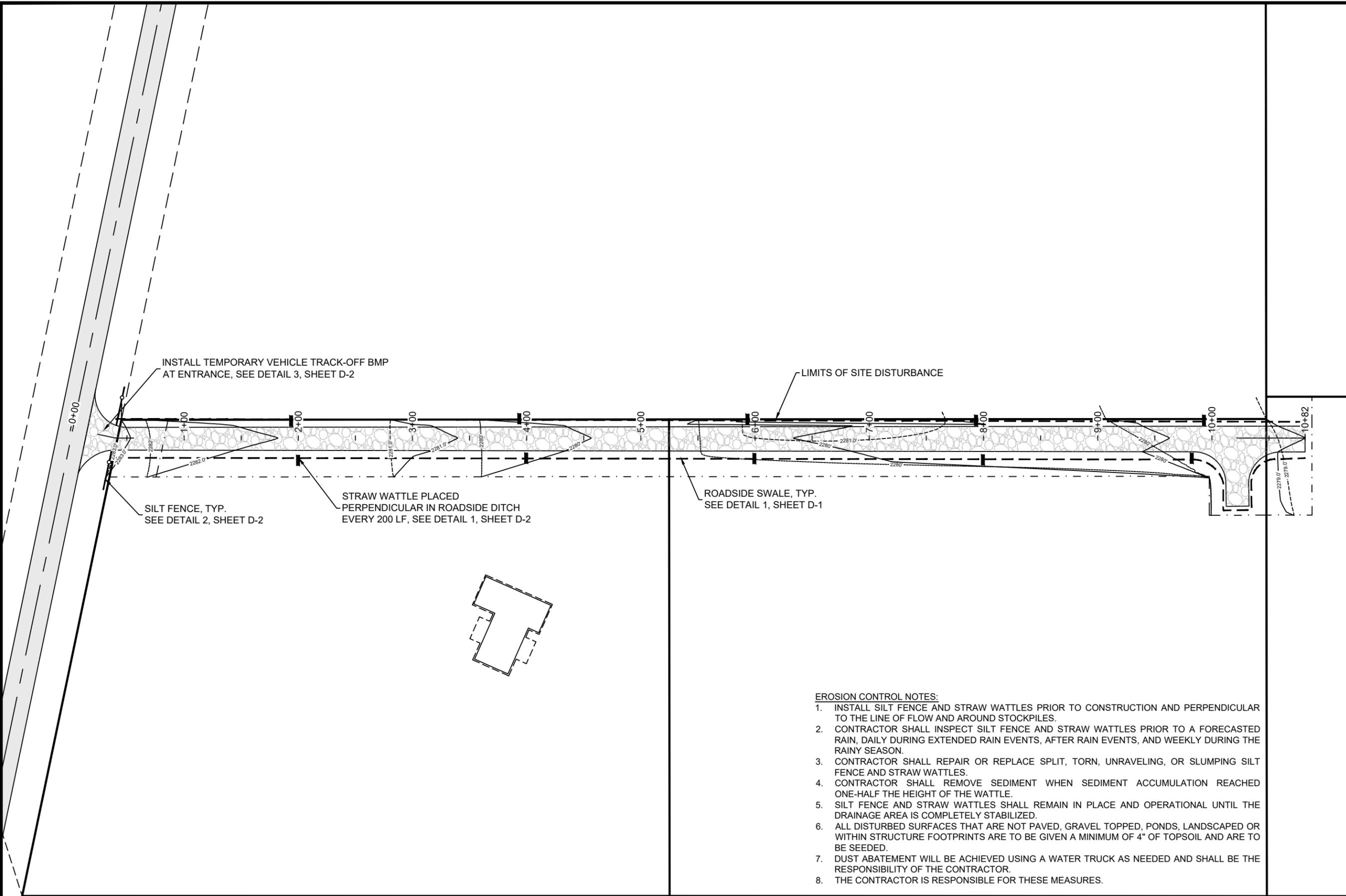


PRELIMINARY
NOT FOR
CONSTRUCTION

PROJ. NO.:	CW244
DWN. BY:	NMC
DATE:	1/8/26
REVISION:	
DATE:	
BY:	
3 OF 6 SHEET	
C-2	

FLATTERY LANE ROAD DESIGN

PRELIMINARY STORMWATER AND
EROSION CONTROL PLAN



INSTALL TEMPORARY VEHICLE TRACK-OFF BMP AT ENTRANCE, SEE DETAIL 3, SHEET D-2

LIMITS OF SITE DISTURBANCE

SILT FENCE, TYP. SEE DETAIL 2, SHEET D-2

STRAW WATTLE PLACED PERPENDICULAR IN ROADSIDE DITCH EVERY 200 LF, SEE DETAIL 1, SHEET D-2

ROADSIDE SWALE, TYP. SEE DETAIL 1, SHEET D-1

EROSION CONTROL NOTES:

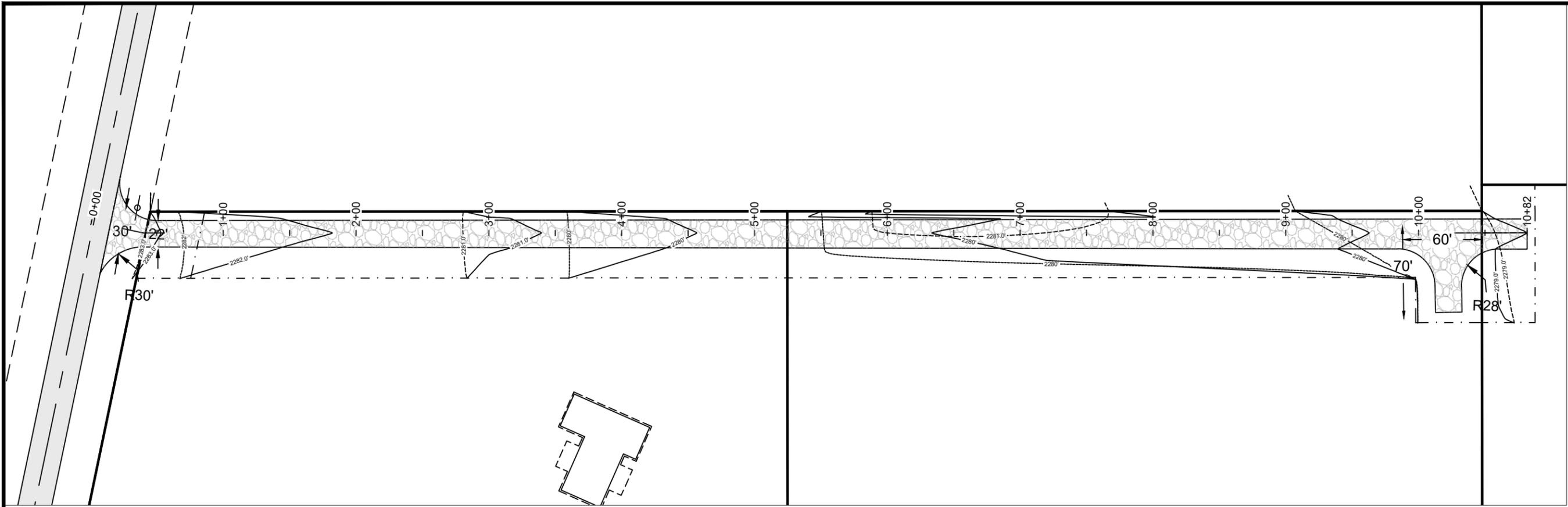
1. INSTALL SILT FENCE AND STRAW WATTLES PRIOR TO CONSTRUCTION AND PERPENDICULAR TO THE LINE OF FLOW AND AROUND STOCKPILES.
2. CONTRACTOR SHALL INSPECT SILT FENCE AND STRAW WATTLES PRIOR TO A FORECASTED RAIN, DAILY DURING EXTENDED RAIN EVENTS, AFTER RAIN EVENTS, AND WEEKLY DURING THE RAINY SEASON.
3. CONTRACTOR SHALL REPAIR OR REPLACE SPLIT, TORN, UNRAVELING, OR SLUMPING SILT FENCE AND STRAW WATTLES.
4. CONTRACTOR SHALL REMOVE SEDIMENT WHEN SEDIMENT ACCUMULATION REACHED ONE-HALF THE HEIGHT OF THE WATTLE.
5. SILT FENCE AND STRAW WATTLES SHALL REMAIN IN PLACE AND OPERATIONAL UNTIL THE DRAINAGE AREA IS COMPLETELY STABILIZED.
6. ALL DISTURBED SURFACES THAT ARE NOT PAVED, GRAVEL TOPPED, PONDS, LANDSCAPED OR WITHIN STRUCTURE FOOTPRINTS ARE TO BE GIVEN A MINIMUM OF 4" OF TOPSOIL AND ARE TO BE SEEDED.
7. DUST ABATEMENT WILL BE ACHIEVED USING A WATER TRUCK AS NEEDED AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
8. THE CONTRACTOR IS RESPONSIBLE FOR THESE MEASURES.



clearwaterengineeringidaho.com
P.O. Box 2006
Post Falls, ID 83877
Phone: 406.690.5249



0 40' 80'
SCALED FOR 22" X 34" DRAWING SHEET
1' CONTOUR INTERVALS

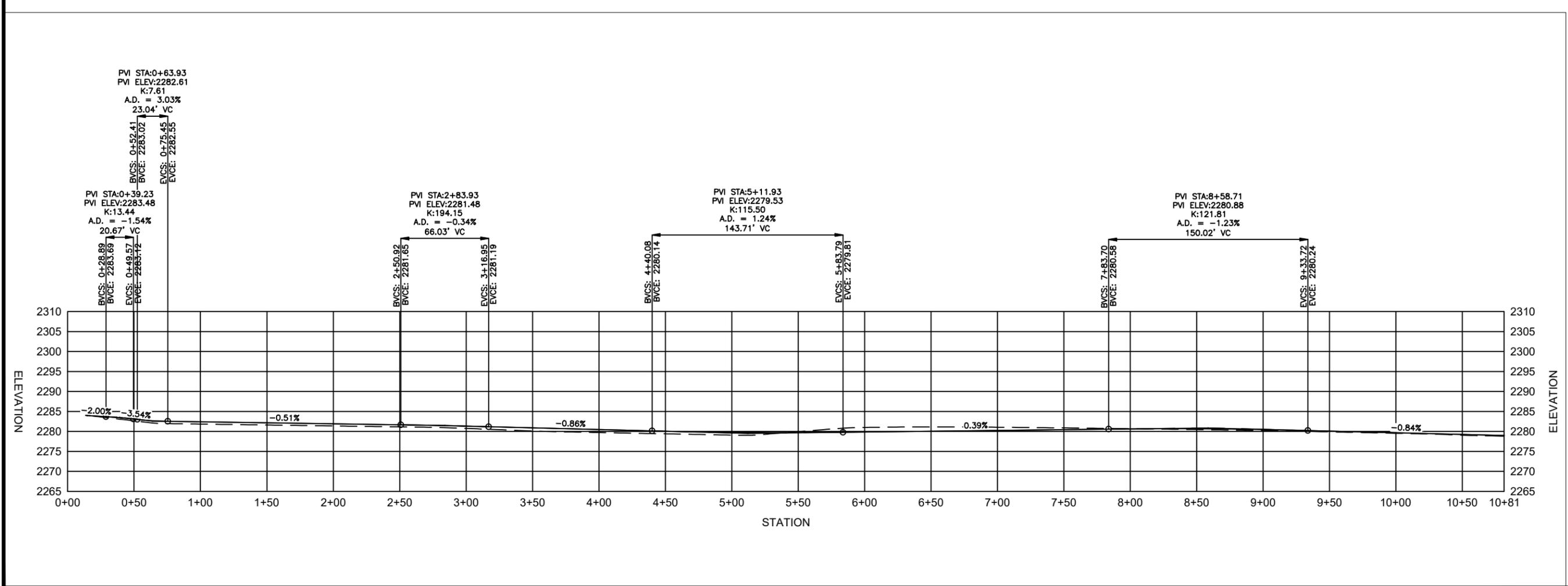


PRELIMINARY
NOT FOR
CONSTRUCTION

PROJ. NO.:	CW244
DWN. BY:	NMC
DATE:	1/8/26
BY:	
4 OF 6 SHEET	
C-3	

FLATTERY LANE ROAD DESIGN

ROAD PLAN & PROFILE
STA 0+00 TO 10+81

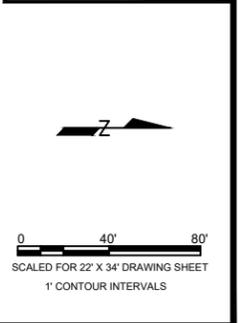


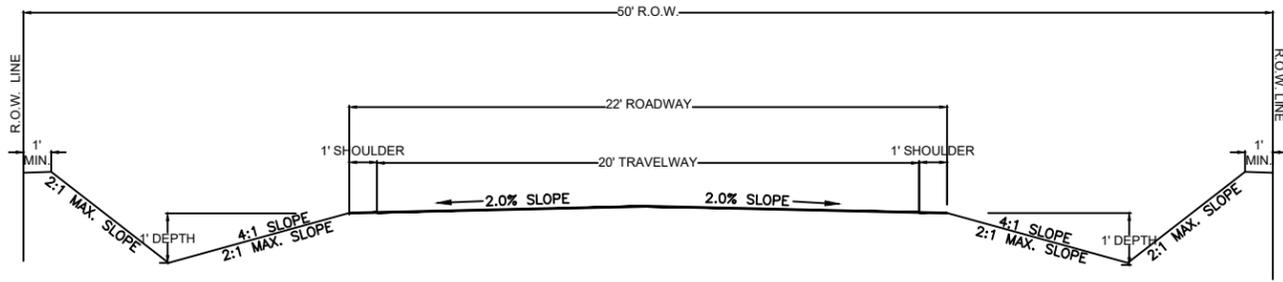
Clearwater Engineering
A Limited Liability Company

clearwaterengineeringidaho.com

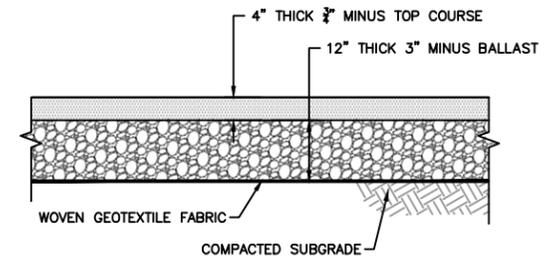
P.O. Box 2006
Post Falls, ID 83877

Phone: 406.690.5249





1 TYPICAL ROAD SECTION
NTS



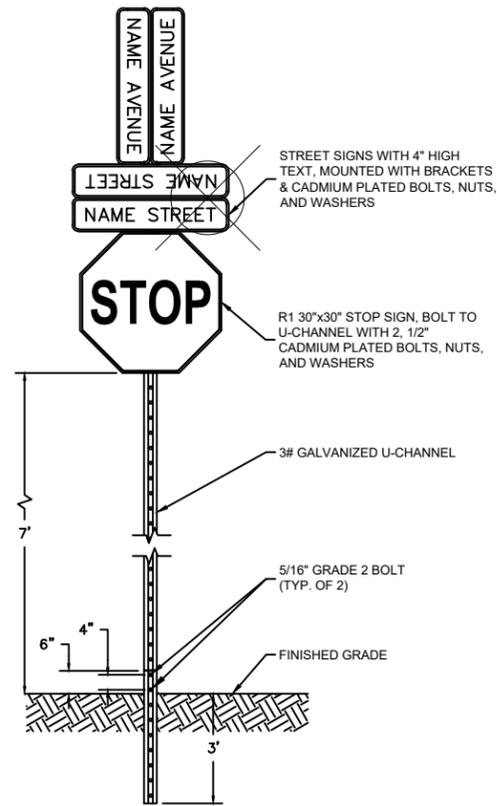
- SUBGRADE, BALLAST, AND TOP COURSE SHALL EACH BE COMPACTED TO 95% MOD STANDARD PROCTOR ASTM D698
- BALLAST MATERIAL SHALL CONSIST OF PIT RUN GRAVEL OR FRACTURED ROCK AND SHALL HAVE A SAND EQUIVALENT OF NOT LESS THAN 30.
- THE BALLAST GRADATION SHALL BE AS FOLLOWS:

SIEVE SIZE	PERCENT PASSING
6 inch	100
3 inch	98 - 100
2 inch	75 - 100
1 inch	40 - 80
#4	25 - 60
#200	5 - 12

- THE TOP COURSE GRADATION SHALL BE AS FOLLOWS:

SIEVE SIZE	PERCENT PASSING
1 inch	100
3/4 inch	90-100
#4	40-65
#8	30-50
#200	3-9

2 TYPICAL GRAVEL ROAD STRUCTURE
NTS



- STREET SIGNS SHALL BE BLUE WITH WHITE TEXT AND COMPLY WITH MUTCD STANDARDS.

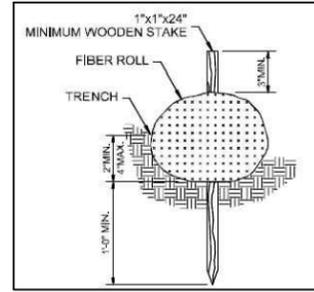
3 SIGN DETAIL
NTS

PRELIMINARY
NOT FOR
CONSTRUCTION

PROJ. NO.:	REV. NO.:	DATE:	DATE:	BY:	BY:
CW244					
DWN. BY:	NMC	DATE:	1/8/26		
5 OF 6 SHEET			D-1		

FLATTERY LANE ROAD DESIGN
ROAD DETAILS

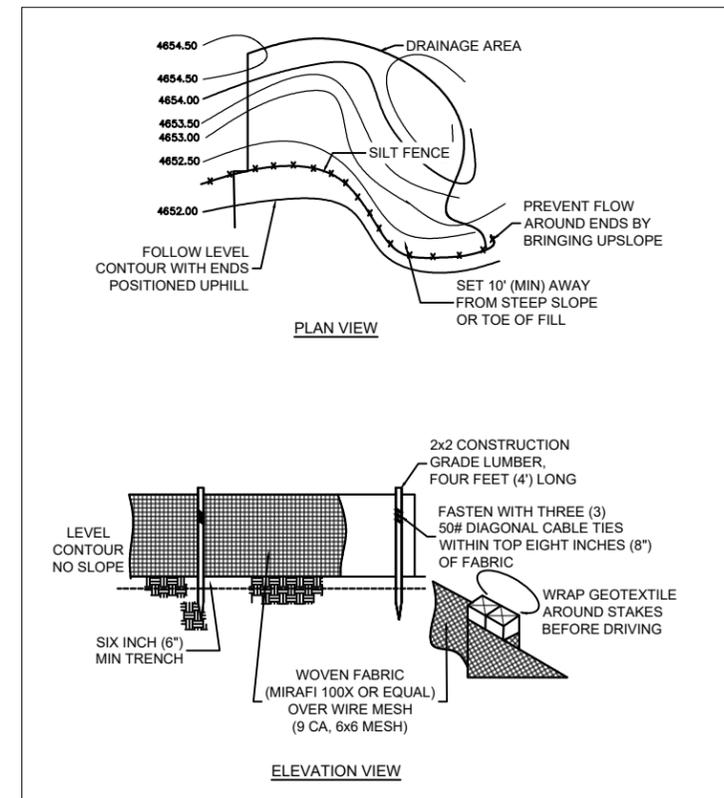
clearwaterengineeringidaho.com
P.O. Box 2006
Post Falls, ID 83877
Phone: 406.690.5249



1. STRAW WATTLE SHALL CONSIST OF STRAW, FLAX, OR OTHER SIMILAR MATERIALS BOUND INTO A BIODEGRADABLE TUBULAR PLASTIC OR SIMILAR ENCASING MATERIAL.
2. THE ENDS OF THE STRAW WATTLES SHALL BE TURNED UP SLOPE TO PREVENT RUNOFF BYPASSING THE ROLL.
3. PREFABRICATED WATTLES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
4. STAKE WATTLES INTO A 2 TO 4 INCH DEEP TRENCH WITH A WIDTH EQUAL TO THE DIAMETER OF THE WATTLE. DRIVE STAKES AT THE END OF EACH WATTLE AND SPACED A MAXIMUM OF 4 FEET ON CENTER. USE WOOD STAKES WITH A NOMINAL CLASSIFICATION OF 1 X 1 INCH MINIMUM AND A LENGTH OF 24 INCHES.
5. WATTLES SHALL BE OVERLAPPED WHEN MORE THAN ONE IS PLACED IN A ROW.

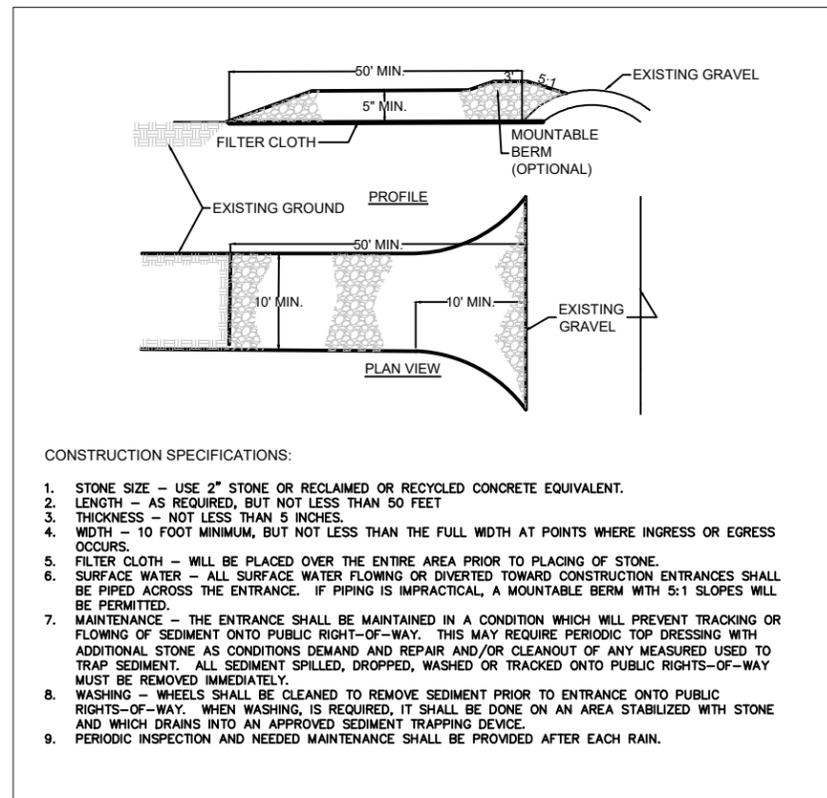
1 STRAW WATTLE DETAIL

NTS



2 SILT FENCE DETAIL

NTS



3 VEHICLE TRACK-OFF DETAIL

NTS

CONSTRUCTION SPECIFICATIONS:

1. STONE SIZE - USE 2" STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET
3. THICKNESS - NOT LESS THAN 5 INCHES.
4. WIDTH - 10 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURED USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING, IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

Clearwater Engineering
A Limited Liability Company
cleanwaterengineeringidaho.com
P.O. Box 2006
Post Falls, ID 83877
Phone: 406.690.5249

FLATTERY LANE ROAD DESIGN
EROSION CONTROL DETAILS

PROJ. NO.:	CW244	DATE:	
DWN. BY:	NMC	DATE:	1/8/26
REVISION:		BY:	
6 OF 6 SHEET		D-2	

PRELIMINARY
NOT FOR
CONSTRUCTION