A.M. BAIRD
ENGINEERING & SURVEYING, INC.
1257 Main Street • P.O. Box 396 • Fortuna, CA. 95540 • (707) 725-5182 • Fax (707) 725-5581

CONSULTING – LAND DEVELOPMENT – DESIGN – SURVEYING

GRADING & EROSION CONTROL PLAN

PROPOSED GRADING OF APPROXIMATELY 20.7 CUBIC YARDS

PREPARED FOR:

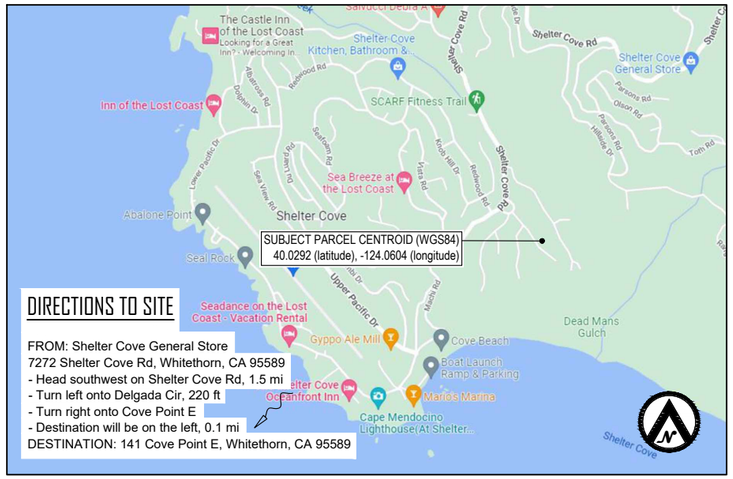
Anthony Pisarski
APN(s): 111-221-012 & 111-161-068
LOTS 13 & 14 BLK 172 TR 42
LOT 15 BLK 172 TR 42
Shelter Cove, CA
Humboldt County

PREPARED BY:

REGISTERED PROFESSIONAL ENGINEER
ALLAN M. BAIRD
No. 23681
CIVIL
STATE OF CALIFORNIA

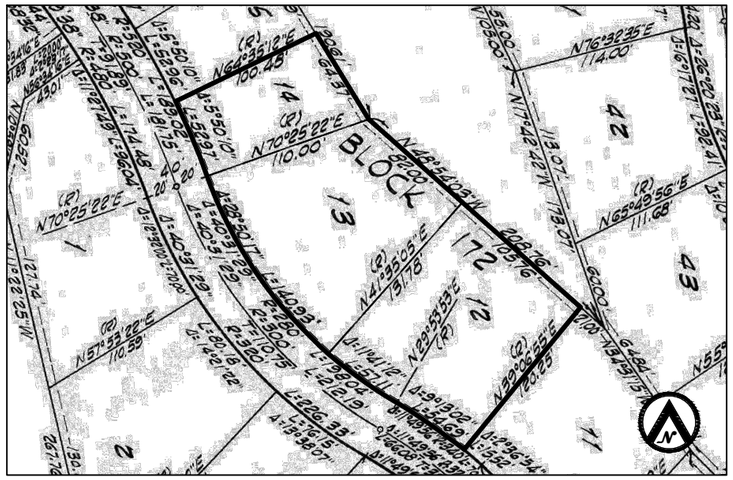
ALLAN M. BAIRD, RCE 23681

May 15, 2024
Job# 2-4445-2



VICINITY MAP

SCALE: 1"=NTS



PROPERTY MAP

SCALE: 1"=100

PLANNING PERMIT DESCRIPTION

COASTAL DEVELOPMENT & SPECIAL PERMIT WITH DESIGN REVIEW AND PARCEL MERGER FOR A PROPOSED 3-BEDROOM, SINGLE FAMILY HOME WITH 4 PARKING SPACES, 3 ON SITE AND 1 ON STREET. 20 CY OF GRADING TO BE BALANCED ON SITE.

BUILDING PERMIT DESCRIPTION

PROPOSED 3-BEDROOM, SINGLE FAMILY HOME WITH 4 PARKING SPACES, 3 ON SITE AND 1 ON STREET. 20 CY OF GRADING. PARCELS TO BE MERGED.

PLAN LEGEND

- PROPERTY LINE
- EASEMENT / SETBACK
- EXISTING ELEVATION CONTOUR, 5'
- EXISTING ELEVATION CONTOUR, 1'
- PROPOSED ELEVATION CONTOUR, 5'
- PROPOSED ELEVATION CONTOUR, 1'
- FR — FIBER ROLL
- # — DISTANCE & DIRECTION TO PROPERTY LINE
- % — FINSHED SLOPE
- PARKING SPACE, 8'X18'
- PROPOSED CUT = 20.70 CY
- PROPOSED FILL = 20.70 CY
- (E) EXISTING
- (P) PROPOSED
- D.W. DRIVEWAY
- F.F FINISHED FLOOR ELEVATION
- SOIL TEST LOCATION

PROFILE LEGEND

- EXISTING GRADE
- PROPOSED GRADE
- CUT = 20.70 CY
- FILL = 20.70 CY

APPLICANT & OWNER OF RECORD

NAME:
Anthony Pisarski

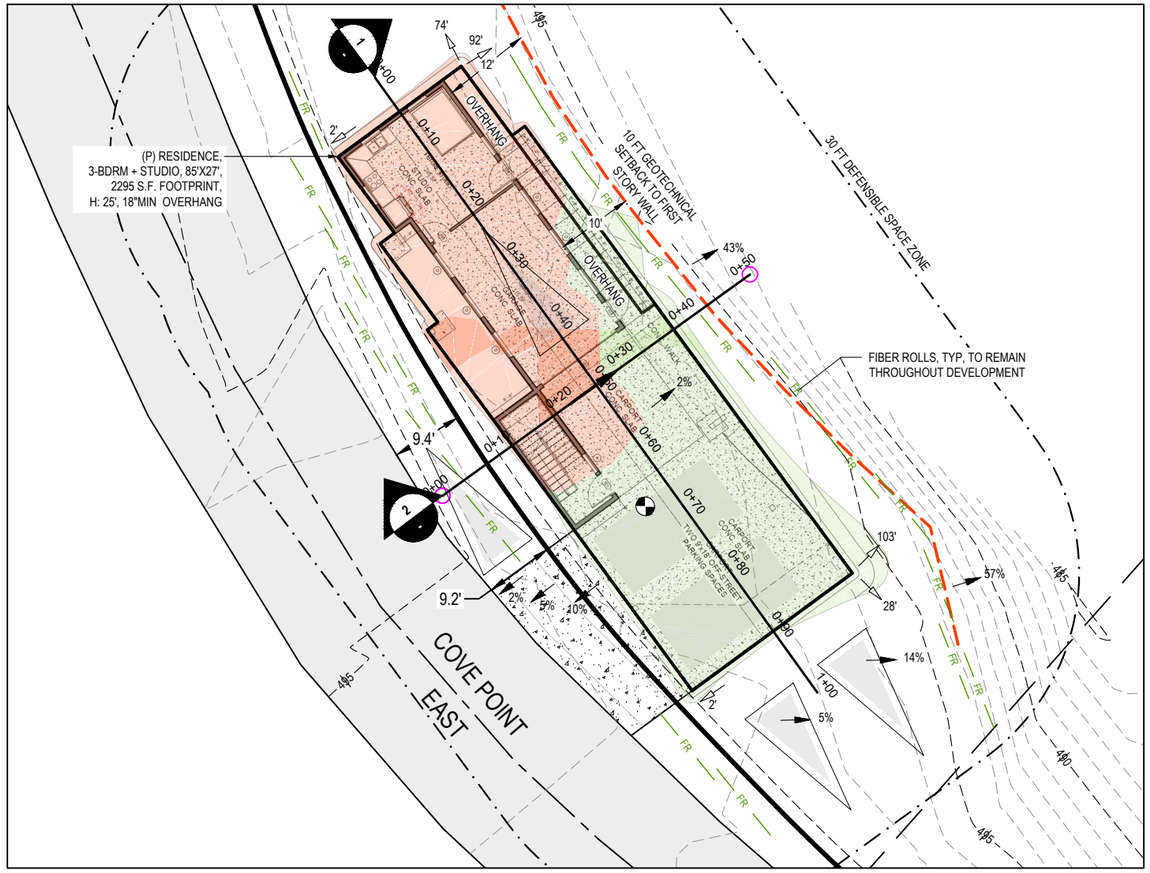
MAILING ADDRESS:
P.O. Box 783, Miranda, CA 95553

EMAIL:
gyeahup@gmail.com

PHONE:
707-267-0362

PROPERTY DETAILS

SITE ADDRESS: 141 Cove Point East, Shelter Cove, CA 95589	PARCEL SIZE: 0.47acres + 0.27 acres	100-YR FLOOD ZONE: NO	ALQUIST-PRIOLO FAULT HAZARD ZONE: YES
ASSESSOR'S PARCEL NUMBER (APN): 111-221-012 & 111-161-068	ZONING: RS-5-S1-Q/G,D	COASTAL ZONE: YES	AIRPORT COMPATIBILITY ZONE: 6
PARCEL CENTROID (WGS84): 40.0292 (latitude), -124.0604 (longitude)	USE: RESIDENTIAL	RELATIVE SLOPE STABILITY: 3 - High Instability	STATE FIRE RESPONSIBILITY AREA (SRA): YES



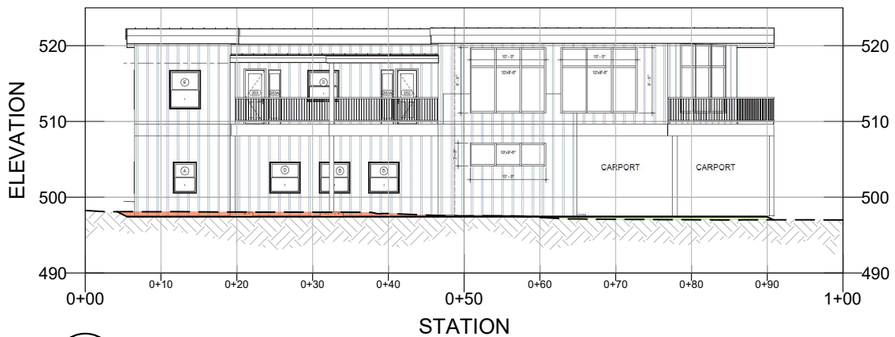
SITE PLAN

SCALE: 1"=20' (11"X17" PAPER)

0 5 10 15 20

NOTES

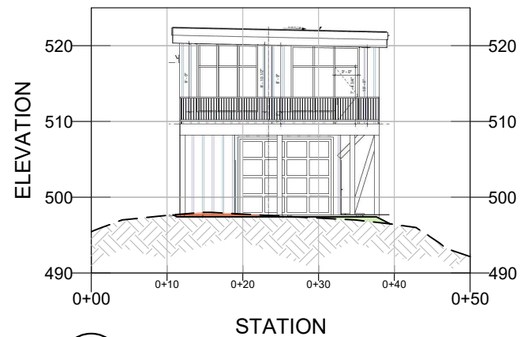
1. NO TREES TO BE REMOVED.
2. SITE SERVED BY MUNICIPAL WATER SUPPLY.
3. SITE SERVED BY MUNICIPAL SANITARY SEWER.
4. BUILDING SETBACK(S): 2' FRONT, 5' SIDES, 10' REAR.
5. GRADE AS NECESSARY FOR PARCEL FRONTAGE PARKING.
6. SITE IS WITHIN A STATE FIRE RESPONSIBILITY AREA (SRA ZONE).
7. NO KNOWN STREAM(S) OR WETLAND(S) IN DEVELOPMENT AREA.
8. TEMPORARY FIBER ROLLS TO REMAIN IN PLACE THROUGHOUT THE CONSTRUCTION PROCESS.
9. 100-FT REDUCED FUEL ZONE EXCEEDS LOT COVERAGE ∴ ENTIRE LOT SHALL BE REDUCED FUEL ZONE.
10. THE TOTAL ESTIMATED PROPOSED GRADING FOR THIS PROJECT IS 20.70 CY, CUT & FILL TO BE BALANCED ON SITE.
11. NO HISTORICAL BUILDINGS OR KNOWN ARCHAEOLOGICAL OR PALEONTOLOGICAL RESOURCES IN DEVELOPMENT AREA.
12. PROPOSED IMPERVIOUS SURFACE AREA INTRODUCED ONSITE IS APPROXIMATELY 2,440 S.F. FOR RESIDENCE AND DRIVEWAY.
13. OWNERS &/OR CONTRACTOR ARE TO FOLLOW EROSION & SEDIMENT CONTROL MEASURES OUTLINED ON THIS SHEET AND ON SHEETS 5-7.
14. TOPOGRAPHIC SURVEY PERFORMED SEPTEMBER 13, 2023 BY A.M. BAIRD ENGINEERING & SURVEYING, INC; TOPOGRAPHIC ELEVATIONS RELATIVE TO NAVD88.
15. RE-VEGETATE ALL DISTURBED AREAS W/ NATIVE GRASSES & COVER W/ STRAW MULCH UNTIL 80% COVER IS ACHIEVED. KEEP MOIST UNTIL VEGETATION HAS BECOME ESTABLISHED.
16. ENGINEERED GRADING, EXCAVATION, EROSION AND SEDIMENT CONTROL SHALL BE IN CONFORMANCE WITH THE COUNTY OF HUMBOLDT GRADING ORDINANCE COUNTY CODE SECTION 311-14.
17. FIBER ROLL (SE-5) SPECIFICATIONS ADOPTED FROM "STORMWATER QUALITY HANDBOOKS - CONTRUCTION SITE BEST MANAGEMENT PRACTICES (BMPS) MANUAL", STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS), MAY 2017.



1 — PROFILE 1

SCALE: 1"=20'

0 5 10 15 20



2 — PROFILE 2

SCALE: 1"=20'

0 5 10 15 20

CPL	BY
HUMCO BLDG SUB 1	DESCRIPTION
#/##/22	DATE

REVISIONS

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SCALE: AS NOTED
DRAWN BY: CPL
CHKD: AMB
DATE: 11/19/2024

ANTHONY PISARSKI
141 Cove Point East, Shelter Cove, CA 95589
APN(s): 111-221-012 & 111-161-068

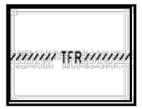
SITE PLAN

JOB #
23-4445-2

SHEET #
1

Fiber Rolls

SC-5



Standard Symbol

Definition and Purpose

A fiber roll consists of wood excelsior, rice or wheat straw, or coconut fibers that is rolled or bound into a tight tubular roll and placed on the toe and face of slopes to intercept runoff, reduce its flow velocity, release the runoff as sheet flow and provide removal of sediment from the runoff. Fiber rolls may also be used for drainage inlet protection and as check dams under certain situations.

Appropriate Applications

This BMP may be implemented on a project-by-project basis with other BMPs when determined necessary and feasible by the RE.

Fiber rolls may be applied as both temporary and permanent sediment controls.

Along the toe, top, face, and at grade breaks of exposed and erodible slopes to shorten slope length and spread runoff as sheet flow.

Below the toe of exposed and erodible slopes.

Fiber rolls may be used as check dams in unlined ditches or as temporary drainage inlet protection Down-slope of exposed soil areas.

Around temporary stockpiles.

Along the perimeter of a project.

Fiber Rolls

SC-5

Limitations

Runoff and erosion may occur if fiber roll is not adequately trenched in.

Fiber rolls at the toe of slopes greater than 5:1 (H:V) may require the use of a large sediment barrier as specified in Standard Specifications Section 13-10.03D Temporary Large Sediment Barrier or installations achieving the same protection (i.e., stacked smaller diameter fiber rolls, etc.).

Difficult to move once saturated.

Fiber rolls could be transported by high flows if not properly staked and trenched in.

Fiber rolls have limited sediment capture zone.

Do not use fiber rolls on slopes subject to creep, slumping, or landslide.

Plastic netting should not be used when regulatory permits prohibit their use or if there is a potential for plastic netting to endanger wildlife.

Plastic netting is only allowed where fiber rolls will be for short duration and will be removed.

Standards and Specifications

Materials

Fiber rolls must be premanufactured and filled with weed-free rice or wheat straw, wood excelsior, or coconut fiber. Fiber roll must be covered with biodegradable jute, sisal, or coir fiber netting secured tightly at each end.

Fiber rolls must have a minimum functional longevity of 1 year.

Fiber rolls must be:

- 8 to 10 inches in diameter and at least 1.1 lb/ft
- 10 to 12 inches in diameter and at least 3 lb/ft

Large sediment barriers are a subset of fiber rolls. Large sediment barriers must be:

- 18 to 22 inches in diameter
- At least 8 ft in length
- At least 6.5 lb/ft

Fiber rolls used within the jurisdiction of the Lahontan RWQCB must be made entirely of biodegradable materials if the project is near an ESA area, they are intended to be left in place after construction is completed or there are regulatory permits prohibiting the use of non-photo/biodegradable fiber rolls.

Submit a Certificate of Compliance for fiber rolls.

Rope to fasten fiber rolls must be 1/4 inch in diameter and biodegradable, such as sisal or manila.

REVISIONS

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SCALE: AS NOTED
DRAWN BY: CPL
CHKD: AMB
DATE: 05/15/2024

ANTHONY PISARSKI
141 Cove Point East, Shelter Cove, CA 95589
APN(s): 111-221-012 & 111-161-068

EROSION CONTROL - FIBER ROLLS, pg. 1

JOB #
23-4445-2

SHEET #
2

Wood stakes must be untreated fir, redwood, cedar, or pine and cut from sound timber. The ends must be pointed for driving into the ground. Notched stakes must be at least 1 by 2 by 24 inches in size. Stakes without notches must be at least 1 by 1 by 24 inches.

Typical Fiber Roll Installation

Before installing fiber roll, remove obstructions from the ground, including rocks, clods, and debris greater than 1 inch in diameter.

For any 20-foot section of fiber roll, prevent the fiber roll from varying more than 5 percent from level.

Use the following spacing unless otherwise noted on the project plans or special provisions:

- 10 feet apart for slopes steeper than 2:1 (H:V)
- 15 feet apart for slopes from 2:1 to 4:1 (H:V)
- 20 feet apart for slopes from 4:1 to 10:1 (H:V)
- 50 feet apart for slopes flatter than 10:1 (H:V)

For Type 1 installations:

- Place in a furrow that is from 2 to 4 inches deep.
- Fasten with wood stakes every 4 feet along the length of the fiber roll.
- Fasten the ends of the fiber roll by placing a stake 6 inches from the end of the roll.
- Drive the stakes into the soil so the top of the stake is less than 2 inches above the top of the fiber roll.

For Type 2 installations:

- Fasten with notched wood stakes and rope.
- Drive stakes into the soil until the notch is even with the top of the fiber roll.
- Lace the rope between stakes and over the fiber roll. Knot the rope at each stake.
- Tighten the fiber roll to the surface of the slope by driving the stakes further into the soil.

If more than one fiber roll is placed in a row, the rolls should be overlapped; not abutted. Stagger overlapping joints in adjacent rows by 5 to 10 feet.

Typical Large Sediment Barrier Installation

Place a single row of fiber rolls end-to-end, approximately parallel with the slope contour. For any 20-foot section of fiber roll, do not allow the fiber roll to vary by more than 5 percent from level.

Place the fiber rolls in a furrow that is from 6 to 8 inches deep.

Secure the fiber rolls with wood stakes 4 feet apart.

Place a stake 18 inches from each end of each fiber roll.

Drive the stakes into the soil such that the top of the stakes are less than 2 inches above the top of the fiber rolls.

Angle the last 6 feet upslope at the downhill end of the run.

Removal

For permanent installations, do not remove fiber rolls. Fiber rolls will degrade over time, while underlying soils are stabilized by other BMPs.

For temporary installations, remove fiber rolls, collect and dispose of sediment accumulation, and fill and compact holes, trenches, depressions or any other ground disturbance to blend with adjacent ground.

Maintenance and Inspection

Remove sediment from behind the fiber roll if sediment is 1/3 of fiber roll height above ground.

Repair or adjust the fiber roll if rills or other evidence of concentrated runoff occur beneath the fiber roll.

Repair or replace the fiber roll if they become split, torn, or unraveled.

Add stakes if the fiber roll slumps or sags.

Replace broken or split wood stakes.

Remove sediment deposits, trash, and debris from fiber roll as needed. If removed sediment is deposited within project limits, it must be stabilized and not exposed to erosion by wind or water.

Perform maintenance as needed or as required by the RE or CGP or LTCGP requirements.

Inspect fiber rolls before and following rainfall events and a least daily during prolonged rainfall. Perform maintenance as needed or as required by the RE.

Maintain fiber rolls to provide an adequate sediment holding capacity and runoff velocity reduction.

Fiber roll placement must be shown on the WPCDs.

SWPPP or WPCP

Fiber rolls must be discussed in Section 500.3 of the SWPPP or Section 30.2 of the WPCP.

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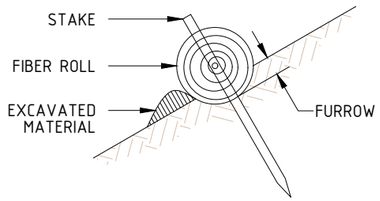
APN(s): 111-221-012 & 111-161-068

EROSION CONTROL - FIBER ROLLS, pg. 2

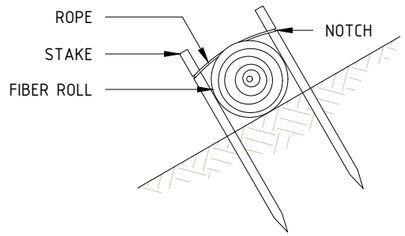
JOB #
23-4445-2

SHEET #
3



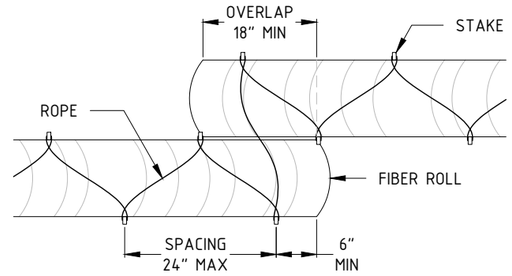
TYPE 1 TEMPORARY FIBER ROLL

SECTION , NTS



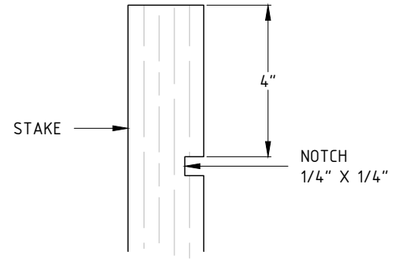
TYPE 2 TEMPORARY FIBER ROLL

SECTION , NTS



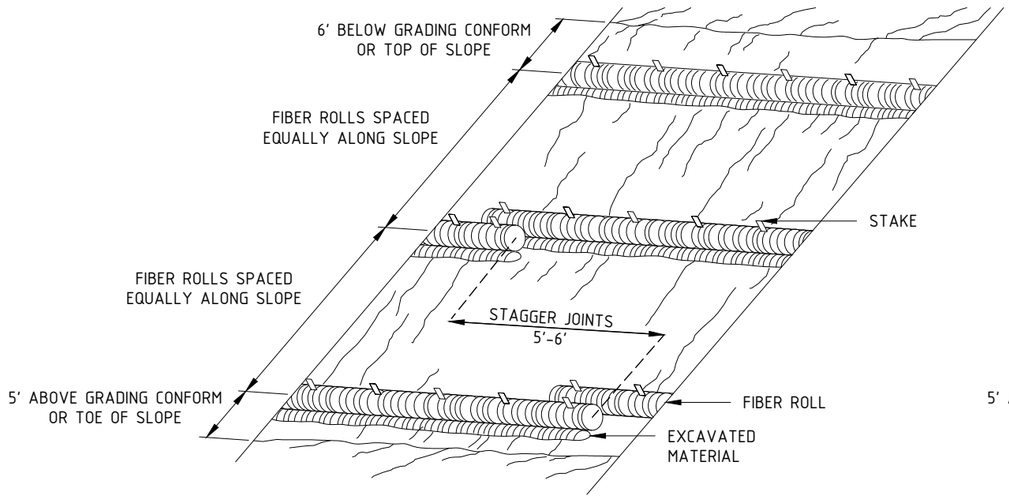
TYPE 2 TEMPORARY FIBER ROLL

PLAN , NTS



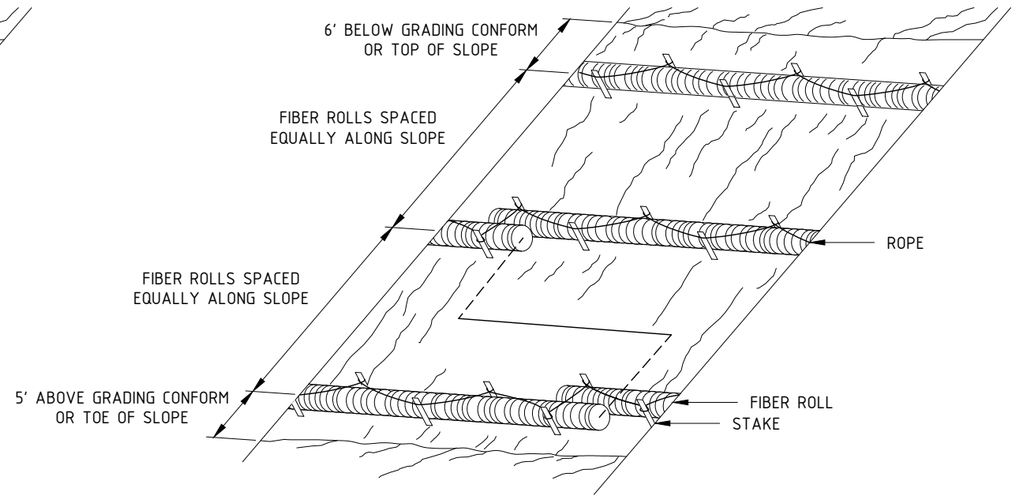
TYPE 2 TEMPORARY FIBER ROLL STAKE NOTCH DETAIL

PROFILE , NTS



TYPE 1 TEMPORARY FIBER ROLL

PERSPECTIVE , NTS



TYPE 2 TEMPORARY FIBER ROLL

PERSPECTIVE , NTS

NOTE

FIBER ROLL SPACING IS DEPENDENT ON SLOPE OF APPLICATION AREA.
SEE SHEET 7.

REVISIONS

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SCALE: AS NOTED
DRAWN BY: CPL
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DATE: 05/15/2024

ANTHONY PISARSKI
141 Cove Point East, Shelter Cove, CA 95589
APN(s): 111-221-012 & 111-161-068

EROSION CONTROL - FIBER ROLLS, pg. 3

JOB # 23-4445-2

SHEET # 4

GENERAL

OWNER(S): ANTHONY PISARSKI

ORGANIZERS: A.M. BAIRD ENGINEERING & SURVEYING, INC.

PROJECT LOCATION: SITE APN: 111-221-012 & 111-161-069

PROJECT DESCRIPTION : PROPOSED CUT OF APPROXIMATELY 20.70 CUBIC YARDS

ENGINEER'S DECLARATION: THIS EROSION & SEDIMENT CONTROL PLAN WAS PREPARED BY A.M. BAIRD ENGINEERING & SURVEYING UNDER THE DIRECTION OF ALLAN BAIRD, RCE #23681 & IS ADOPTED FROM THE CALTRANS CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMPS) MANUAL MAY 2017.

1. GRADING & EROSION CONTROL MEASURES TO BE TAKEN AT TIME OF PERMIT & TO CONTINUE THROUGHOUT CONSTRUCTION PROCESS.
2. OWNER(S) INTEND TO BEGIN CONSTRUCTION AS SOON AS PERMIT IS ISSUED.
3. IF CONSTRUCTION IS TO OCCUR BETWEEN OCTOBER 15 AND APRIL 15, SITE INSPECTIONS WILL BE CONDUCTED BY THE CONTRACTOR AND/OR OWNER(S): PRIOR TO A FORECASTED STORM, AFTER A RAIN EVENT, WEEKLY THROUGHOUT THE RAINY SEASON, AND EVERY TWO WEEKS THROUGHOUT CONSTRUCTION
4. SITE WILL BE MONITORED DAILY DURING WET WEATHER BY CONTRACTOR AND/OR OWNER(S). CONTRACTOR AND/OR OWNER(S) ARE RESPONSIBLE FOR REPORTING ANY HAZARDOUS SITUATIONS TO THE ENGINEER.
5. IN THE EVENT THAT ANY ASPECT OF THIS PLAN FAILS, THE OWNER(S) IS/ARE RESPONSIBLE FOR IMMEDIATELY CONTACTING THE ENGINEER FOR RECOMMENDATION(S) AND A PROFESSIONAL CONTRACTOR SHALL FOLLOW SAID RECOMMENDATION(S).
6. IF A FOOTING REVIEW IS REQUIRED, SITE MUST BE EVALUATED BY AN ENGINEER, AND IF NECESSARY, ADDITIONAL EROSION CONTROL MEASURES WILL BE TAKEN.
7. UPON COMPLETION OF THE PERMITTED ROUGH GRADING WORK & AT THE FINAL COMPLETION OF THE WORK FOR "ENGINEERED GRADING", OR WHEN PROFESSIONAL INSPECTION IS PERFORMED FOR REGULAR GRADING; A FINAL REPORT SHALL BE SUBMITTED BY THE ENGINEER, IF REQUIRED.
8. THE PERMIT APPLICANT/OWNER(S) SHALL NOTIFY THE BUILDING OFFICIAL WHEN THE GRADING OPERATION IS READY FOR FINAL INSPECTION, AS REQUIRED.
9. IF REQUIRED, A FINAL REPORT SHALL BE PREPARED BY THE ENGINEER AND SUBMITTED TO THE HUMBOLDT COUNTY BUILDING DEPARTMENT BEFORE THE FINAL INSPECTION TO ENSURE THE SITE IS IN ACCORDANCE WITH THIS EROSION CONTROL PLAN & HUMBOLDT COUNTY CODE 331-14.
10. FILL AREAS WITH PRE-EXISTING GRADE EXCEEDING A FIVE TO ONE UNITS (20%) SLOPE AND GREATER THAN FIVE FEET IN HEIGHT, SHALL BE REQUIRE BENCHING IN ACCORDANCE WITH CALIFORNIA BUILDING CODE FIGURE J107.3.

SEDIMENT CONTROL, SLOPE CONSTRUCTION, & PROTECTION OF WATER COURSES

11. DIRECT RUNOFF FROM SPOUTS SHALL DISCHARGE TO SPLASH BLOCKS & FLOW AWAY FORM THE FOUNDATION AND/OR FILL. CONTRACTOR TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURE AS PER CURRENT BUILDING CODE.
12. ALL EXPOSED, DISTURBED GROUND SHALL BE TEMPORARILY COVERED W/ TWO INCHES OF STRAW MULCH IMMEDIATELY FOLLOWING GRADING.
13. CUT AND/OR FILL AREAS SHALL BE COVERED W/ NATIVE GRASSES, COVERED W/ STRAW MULCH & KEPT MOIST UNTIL GRASSES ESTABLISH.
14. FIBER ROLLS SHALL BE CONSTRUCTED ON CONTOURS DOWN SLOPE OF DISTURBED AREAS.
15. FIBER ROLL LOCATION(S), OTHER EROSION & SEDIMENT CONTROL MEASURES WERE SPECIFICALLY PLACED BASED ON TOPOGRAPHY OF ENCLOSED MAP. MINOR CHANGES TO THE PROPOSED DEVELOPMENT THAT WOULD CHANGE THE ASSUMED DIRECTION OF SURFACE FLOWS SHOULD APPROPRIATELY CHANGE THE LOCATION OF FIBER ROLLS STATED IN NOTE 14.

DISPOSAL OF EXCAVATED MATERIALS

16. APPROXIMATELY 20.7-CY OF GRADING TO BE PERFORMED ONSITE. NO MATERIAL (SOIL) TO BE EXPORTED OFF SITE. CUT AND FILL TO BE BALANCED ON SITE.
17. CUT & FILL SLOPES ARE NOT TO EXCEED 2H:1V UNITS; RUNOFF FROM ROOF/DRIVEWAY SHALL BE DIRECTED AWAY FORM CUT & FILL AREAS.
18. EROSION OF EXPOSED EXCAVATED MATERIALS WILL BE PREVENTED BY COMPACTING TO 90% BY TRACKING W/ HEAVY EQUIPMENT IN EIGHT INCH (8") LIFTS, MULCHING, & RE-SEEDING IMMEDIATELY FOLLOWING PLACEMENT, IN ORDER TO BE ABLE TO ACHIEVE A 90% TESTED COMPACTION WITH ASTM D154 OR EQUIVALENT.
19. ALL HISTORICAL FILL SHALL BE REMOVED AND RE-SPREAD & COMPACTED IN EIGHT INCH LIFTS IN ORDER TO BE ABLE TO ACHIEVE A 90% OF MAX. R/C USING ASTM D154 OR EQUIVALENT, OR SOILS BE TESTED IN SITU FOR COMPLIANCE.

REMOVAL OF VEGETATION & RE-VEGETATION

20. EXISTING VEGETATION SHALL BE PROTECTED BY ESTABLISHING THE CONSTRUCTION BOUNDARY PRIOR TO COMMENCEMENT OF SOIL-DISTURBING ACTIVITIES.
21. EXISTING VEGETATION TO BE DISTURBED BY GRADING ACTIVITIES SHALL BE REPLACE W/ NATIVE GRASSES.
22. ALL EXPOSED CUT &/OR FILL SLOPES SHOULD BE RE-VEGETATED TO MATCH EXISTING VEGETATION IN SURROUNDING AREA.
23. CUT &/OR FILL SLOPES ARE LESS THAN NATURALLY OCCURRING SLOPES THAT SUPPORT PERMANENT VEGETATION.
24. SITE WILL BE MONITORED ON A DAILY BASIS DURING PERIODS OF HEAVY RAIN OR WIND. REAPPLICATION OF STRAW MULCH OR RE-SEEDING SHOULD BE COMPLETED AS NECESSARY.

REVISIONS		
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ANTHONY PISARSKI
141 Cove Point East, Shelter Cove, CA 95589
APN(s): 111-221-012 & 111-161-068

EROSION CONTROL NOTES

JOB # 23-4445-2

SHEET # 5