

STRAW - BALE SEDIMENT BARRIERS (SEMI-PERVIOUS) CONSTRUCTION SPECIFICATIONS:

1. THE ROCK SPILLWAY SHALL BE CONSTRUCTED OF GRADED DRAIN ROCK, 1-1/2 INCH MINIMUM, THAT IS SIZED ACCORDING TO EXPECTED FLOWS. FILTER FABRIC MAY BE USED TO COVER THE BALES AND BE ENVELOPED IN THE ROCK SPILLWAY.
2. THE ROCK SPILLWAY SHALL BE CONSTRUCTED TO A HEIGHT OF 2/3 THAT OF THE STRAW BALES.
3. THE MAXIMUM HEIGHT OF THE SPILLWAY SHALL BE 2 FEET.
4. PLACE BALES IN A SINGLE ROW, LENGTH WISE, ORIENTED PERPENDICULAR TO THE FLOW, AND WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER.
5. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4 INCHES. USE STRAW, ROCKS, OR FILTER FABRIC TO FILL ANY GAPS BETWEEN THE BALES AND TAMP THE BACKFILL MATERIAL TO PREVENT EROSION UNDER OR AROUND THE BALES.
6. IF THE BALES ARE WIRE BOUND, THEY SHOULD BE ORIENTED SO BINDINGS ARE AROUND THE SIDES RATHER THAN ALONG THE TOP OR BOTTOM. WIRE BINDING THAT ARE PLACED IN CONTACT WITH SOIL SOON DISINTEGRATE AND MAY ALLOW THE BALE TO FALL APART.
7. THE BALES SHALL BE SECURELY ANCHORED IN PLACE BY TWO WOODEN STAKES OR REBAR DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE TO FORCE THE BALES TIGHTLY TOGETHER. DRIVE THE STAKES AT LEAST 18 INCHES (0.5 m) INTO THE GROUND. PROPER STAKING IS PARTICULARLY IMPORTANT IN CHANNEL FLOW APPLICATIONS.
8. EXTEND THE BARRIER, ACROSS THE SWALE TO SUCH A LENGTH THAT THE BOTTOMS OF END BALE ARE AT A HIGHER ELEVATION THAN THE TOP OF THE ROCK SPILLWAY TO ASSURE THAT SEDIMENT-LADEN RUNOFF WILL FLOW THROUGH OR OVER THE BARRIER BUT NOT AROUND IT.
9. ROCK AND/OR FILTER FABRIC SHALL BE PLACED IMMEDIATELY DOWNSTREAM OF THE ROCK THAT WILL DISSIPATE THE ENERGY OF THE FALLING WATER AND REDUCE DOWNSTREAM EROSION.




INSPECTION AND MAINTENANCE

1. THE SEMI-PERVIOUS STRAW BALE BARRIERS SHALL BE INSPECTED PERIODICALLY DURING THE WINTER AND AFTER EACH SIGNIFICANT STORM (1 INCH IN 24 HRS). REPAIRS AND/OR REPLACEMENT SHALL BE MADE PROMPTLY.
2. SEDIMENT SHALL BE REMOVED WHEN THE BARRIER IS 60 PERCENT FULL. THE REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
3. REMOVE THE STRAW BALES AND STAKES, AND REMOVE OR SPREAD THE ROCK IN THE CHANNEL BOTTOM WHEN THE UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED.
4. PROPERLY DISPOSE OF ALL THE BINDINGS WHICH HAVE FALLEN FROM THE STRAW BALES.

NOTE:

- 1.) THESE NOTES SHALL BE PLACED ON ALL GRADING PLANS WHERE STRAW-BALE BARRIERS ARE REQUIRED.

NOT TO SCALE

	RECOMMENDED: 	12/11/17 DATE	CITY OF MORENO VALLEY PUBLIC WORKS DEPARTMENT - LAND DEVELOPMENT DIVISION	STANDARD PLAN MVFE-351C-0
	APPROVED: 	9/14/18 DATE	EROSION CONTROL NOTES (STRAW-BALE BARRIERS)	SHEET 3 OF 6
DIVISION MANAGER		PUBLIC WORKS DIRECTOR / CITY ENGINEER		