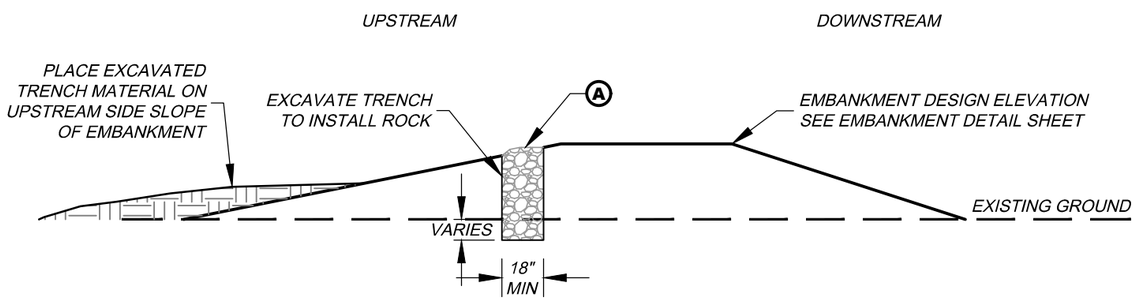
DESIGN TABLE

EMBANKMENT ID #	EMBANKMENT DESIGN ELEVATION (FEET)	ROCK LAYOUT TYPE (A, B, OR C)	Ⓐ TOP OF ROCK ELEVATION (FEET)	Ⓑ START STATION (FEET)	Ⓒ END STATION (FEET)	Ⓓ ROCK DEPTH (FEET)	Ⓔ ROCK LENGTH (FEET)	Ⓕ ROCK DEPTH (FEET)	Ⓖ ROCK LENGTH (FEET)	Ⓗ ROCK DEPTH (FEET)	Ⓘ ROCK LENGTH (FEET)	Ⓙ ROCK DEPTH (FEET)	Ⓚ ROCK LENGTH (FEET)	Ⓛ ROCK DEPTH (FEET)	ESTIMATED QUANTITY (SQ.FT.)



X-SECTION OF EMBANKMENT WITH RODENT PROTECTION

NOT TO SCALE

ANGULAR ROCK GRADATION TABLE

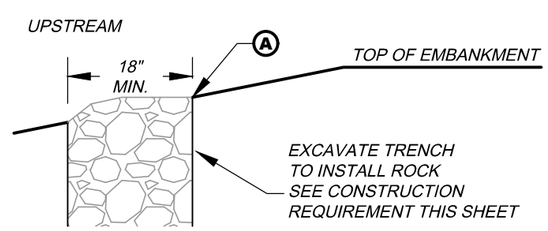
ANGULAR ROCK GRADATION:
ONLY CRUSHED ANGULAR ROCK SHALL BE USED. ENGINEER RECOMMENDS CLASS I BALLAST ROCK (3/4" - 4"). SUBSTITUTE GRADATION SHALL BE APPROVED BY ENGINEER.

ROCK DIAMETER (INCHES)	PERCENT OF TOTAL SIZE SMALLER THAN A GIVEN SIZE (%)
2 - 4	100 - 30
< 2	29 - 0

CONSTRUCTION REQUIREMENTS

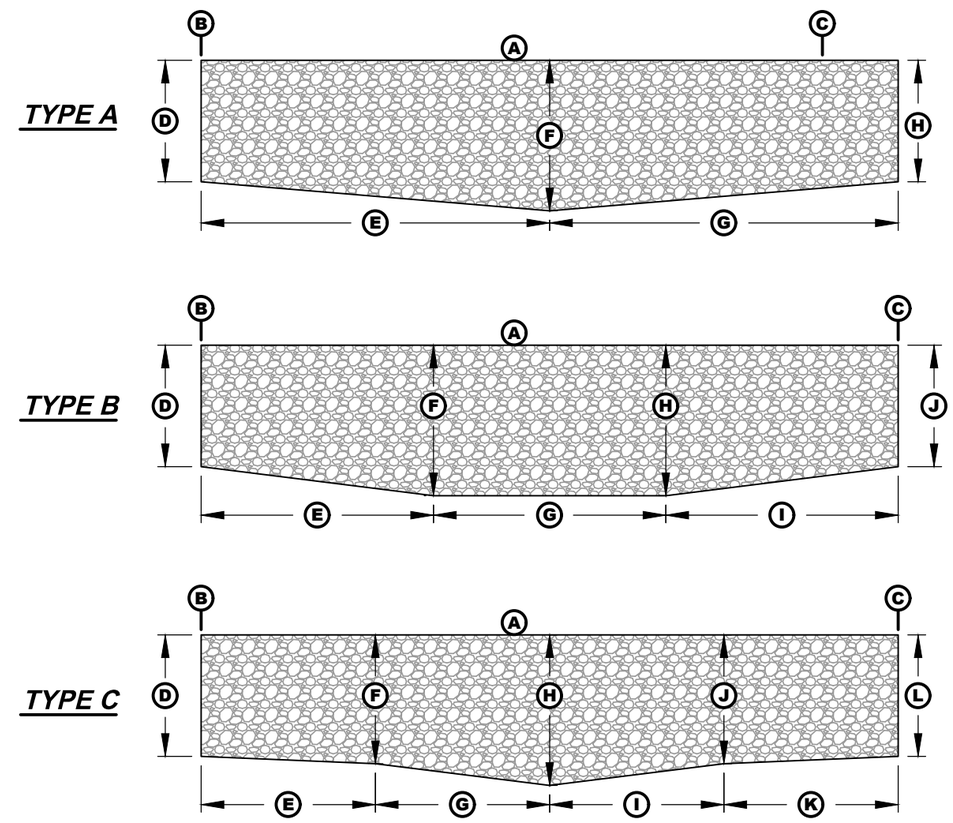
RODENT PROTECTION:

- ROCK TRENCH DEPTH MAY VARY.
- QUANTITIES ARE BASED ON A MINIMUM 18" WIDE EXCAVATED TRENCH, DEPTHS, AND LENGTHS SPECIFIED IN THE DESIGN TABLE. IF CONTRACTOR CHOOSES TO USE A WIDER BUCKET TO EXCAVATE TRENCH, CONTRACTOR WILL BE RESPONSIBLE FOR QUANTITY OVERAGES AND ADDITIONAL COSTS.
- BACK FILL AND BUCKET COMPACT PLACED ROCK IN 12" LIFTS.



TOP OF ROCK LOCATION

NOT TO SCALE



ROCK LAYOUTS FOR RODENT PROTECTION

NOT TO SCALE

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

PRINT NAME / SIGNATURE DATE: LIC. NO.

STANDARD SHEET BWSR 103

WETLAND RESTORATION PLAN

ROCK RODENT PROTECTION DETAIL

PROJECT #:

SHEET NO.

OF