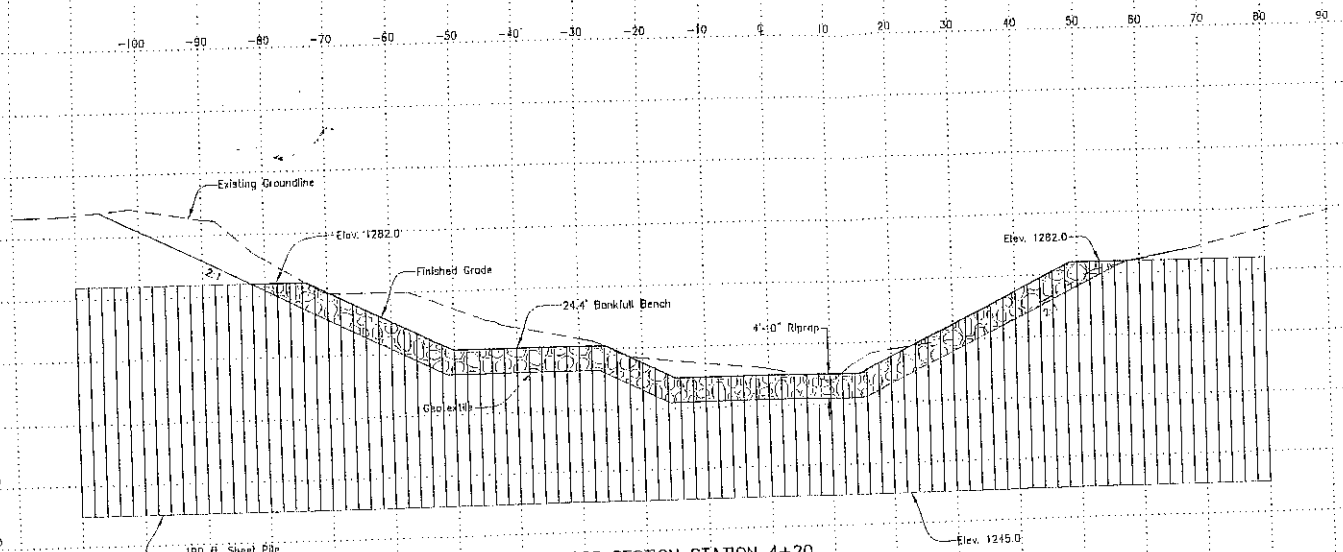


CROSS SECTION STATION 4+20
STRUCTURE OUTLET
DOWNSTREAM SHEETPILE

FINISHED GRADES	
Station	Elevation
-81.6	1281.7
-73.3	1282.0
-50.2	1270.5
-25.8	1270.5
-14.9	1265.0
0	1265.0
14.9	1265.0
48.9	1282.0
57.8	1282.0

SUBGRADE	
Station	Elevation
-116.2	1294.0
-81.6	1281.7
-51.2	1266.5
-26.7	1266.5
-15.8	1254.0
0	1261.0
15.8	1261.0
57.8	1282.0
67.8	1283.8

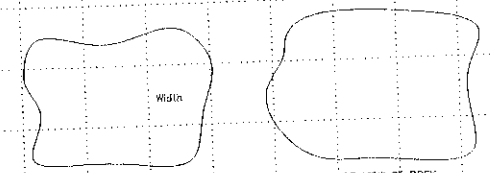
NOTES:

1. Long Term Erosion Control Blanket (North American Green S150 or equivalent) Above Elevation 1282.0 to Elevation 1290.0

NOTES:

1) Centerline has layout coordinates of Easting 4994.3, Northing 5689.3, and final elevation of 1282.0.
2) Geotextile Anchorage shall be provided with pins and soil backfill.
3) All Earthfill shall be placed at a minimum compaction of 90% of Standard Proctor at moistures ranging from Optimum minus 2 to Optimum plus 4.
4) All Erosion Control Blankets shall be overlapped 4" to create a "shingled" condition on both the side slopes and proceeding downstream.
5) Anchor Erosion Control Blankets at the top of the slope in a 12" deep by 6" wide trench. Anchor the blanket in the trench with a row of staples approximately 12" apart. Backfill and compact the trench after stapling.
6) The beginning and end of each roll of the Erosion Control Blanket shall be secured in an anchor trench as described above, or as shown in the detail as appropriate.

NOTE: The Rock Riprap between Stations 0+00 and 0+05 shall be grouted. The concrete grout design mix shall be as follows:
Cement – 564 lb./cu.yd.
Fine Aggregate – 1516 lb./cu.yd.
Coarse Aggregate – 1248 lb./cu.yd.
Water – 48 gal./cu.yd.
See Specification 82 for additional details.

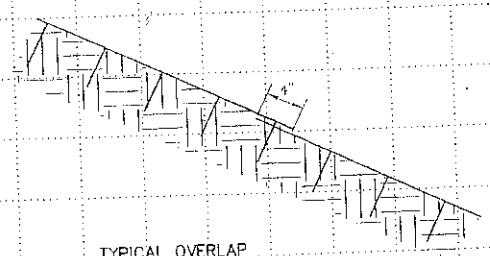


TOP VIEW OF ROCK

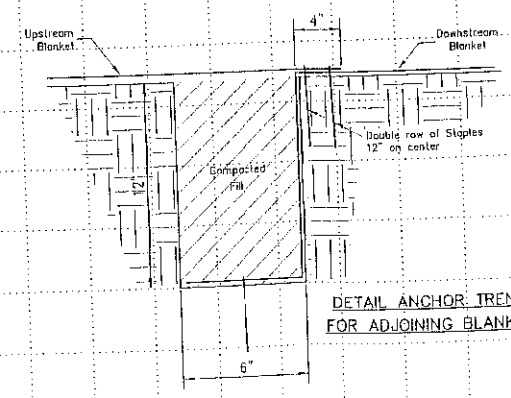
SIDE VIEW OF ROCK

Rock shall be angular in nature with the length approximately twice the smallest dimension. However, the smallest dimension shall not be less than 1/3 of the measured length. See Material Specification 523.

The dimension used for sizing the rock shall be the width or depth, which ever is greater. 80% by weight of that rock shall fall within the range of 20 to 30 inches as described above. Dust and sand will constitute less than 5% of the material on a weight basis.



TYPICAL OVERLAP
EROSION CONTROL BLANKET



DETAIL ANCHOR TRENCH
FOR ADJOINING BLANKETS

CHECK PRINT

CROSS SECTIONS STA. 4+20
ROCK DROP STRUCTURE – BINGER BRIDGE
SUGAR CREEK WATERSHED
CADDO COUNTY, OKLAHOMA

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

Designed V. SLOMK	06-03	State Conservation Engineer	
Drawn T. POTTER	06-03		
Checked V. SLOMK	09-03	Drawing No.	
Approved A. BASS	06-03	Sheet 9 of 13	OK-368

R:\03_06\Binger_B\Geotechnical\Cross Sections\4+2 1of (06-03)

OKR2013677
USDA-NRCS
Sugar Creek
Drop Structure
Enclosure 5 of 6