

**EROSION STONE\ARTICULATING BLOCK MAT  
FILLET DETAIL  
NOT TO SCALE**

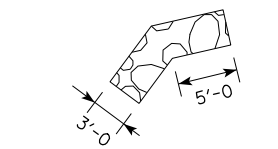
- ① LOCATION OF ANCHOR TRENCH
- ② UPSTREAM ARTICULATING BLOCK MAT-NORTH BANK
- ③ DOWNSTREAM ARTICULATING BLOCK MAT-NORTH BANK
- ④ UPSTREAM ARTICULATING BLOCK MAT-SOUTH BANK
- ⑤ DOWNSTREAM ARTICULATING BLOCK MAT-SOUTH BANK
- ⑥ ANCHOR TRENCH NOT NEEDED FOR MATS 3 AND 5
- ⑦ BUTT MATS AGAINST WATER MAIN PROTECTION MATS AND CLASS E REVETMENT; SEE SHEET 2 FOR DETAILS.

FABRIC FORMED REVETMENT ARTICULATING MAT DIMENSIONS SHOWN ON THE DRAWINGS REFLECT THE FINISHED DIMENSION ALONG GRADE FOLLOWING FILLING WITH CONCRETE GROUT. THE MAT QUANTITY IS BASED ON THE FINISHED MAT DIMENSIONS.

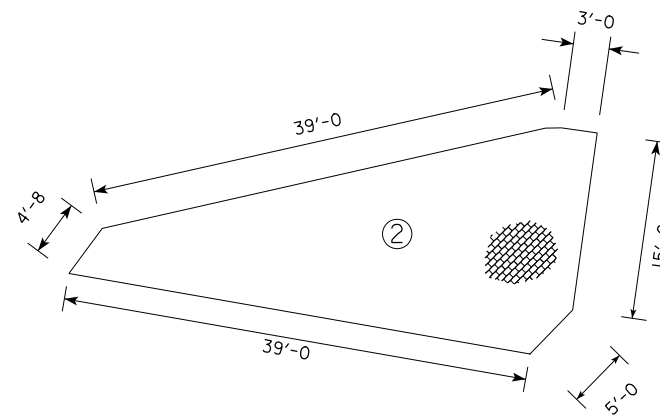
THE FABRIC FORMED REVETMENT QUANTITY INCLUDES THE FORM AREA IN TERMINAL TRENCHES SHOWN ON THE DRAWINGS. LABOR, EQUIPMENT AND MATERIALS REQUIRED TO ANCHOR FABRIC FORMS DURING PLACEMENT AND CURING OF GROUT SHALL BE CONSIDERED INCIDENTAL TO THIS WORK.

ANY CABLE PROTRUDING FROM MAT THAT FORMS A CLOSED LOOP SHALL BE CUT FOLLOWING PLACEMENT AND INITIAL SET OF GROUT TO PREVENT SNAGGING OF FLOOD DEBRIS BY THE CABLE LOOP. THE RESULTANT CABLE ENDS PROTRUDING FROM THE MAT SHALL NOT EXCEED 18 INCH IN LENGTH.

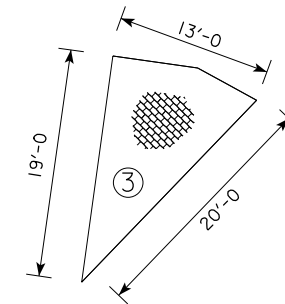
GROUT SHALL NOT BE DISCHARGED ON THE TOP OF THE MAT THAT WILL FILL THE SEAM 'VALLEY' BETWEEN BLOCKS. A WEAKENED PLANE ALONG THE SEAM LINES IS REQUIRED TO FACILITATE CRACKING AND ARTICULATION.



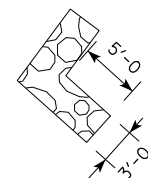
**NORTH BANK  
CLASS E REVETMENT  
DETAIL  
NOT TO SCALE**



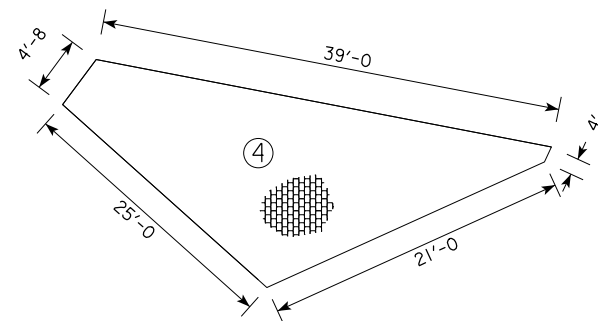
**UPSTREAM  
ARTICULATING BLOCK MAT  
NORTH BANK  
DETAIL  
NOT TO SCALE**



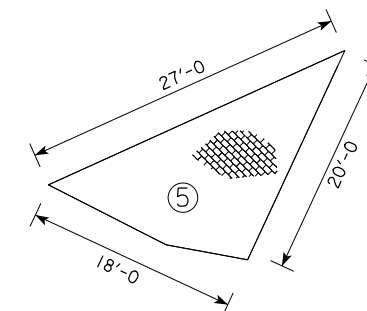
**DOWNSTREAM  
ARTICULATING BLOCK MAT  
NORTH BANK  
DETAIL  
NOT TO SCALE**



**SOUTH BANK  
CLASS E REVETMENT  
DETAIL  
NOT TO SCALE**



**UPSTREAM  
ARTICULATING BLOCK MAT  
SOUTH BANK  
DETAIL  
NOT TO SCALE**



**DOWNSTREAM  
ARTICULATING BLOCK MAT  
SOUTH BANK  
DETAIL  
NOT TO SCALE**

DESIGN FOR  
**INLET MODIFICATIONS**  
**TRIPLE 15' - 18' - 15' X 12' RCB CULVERT**  
**DETAILS**

STATION 115+30.50

**JOHNSON COUNTY**

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION  
DESIGN SHEET NO. 4 OF 4 FILE NO. 30798 DESIGN NO. 512