



TWO 44" SWL INSTALLATIONS IN DELAWARE COUNTY.



THE CONCRETE BULKHEADS/ HEADWALLS ARE BUILT.



THE ANNULUS IS FILLED WITH GROUT.



THE RENEWED PIPE.

BENEFITS:

Trenchless • Minimal Traffic Disruption • No Waste
Small Footprint • Projected 80-Year Performance
Various Project Dimensions • No Couplings

"It was so quick with really low impacts on anything.... and saved a lot of money without having to cut the road."

Ray Frana, Civil Engineering Technician,
U.S. Army Corps of Engineers Rathbun Lake



**GROUT
SCOUTS™**

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GROUTS SCOUTS, INC. USES THE FIVE A'S OF PRESSURE GROUTING SUCCESS:

1. Awareness of the problem before it's too late.
2. Analysis of this problem for its best remedy.
3. Acting upon the problem with the best remedy in an appropriate manner.
4. Ability to act upon the problem.
5. Alliance between Grout Scouts, Inc., engineers, and others to implement this ability.

"The process was flawless. They know what to do to get the job done, easy! I was surprised by how easy it was and their amount of knowledge."

Brandon Billings, Engineer, Cerro Gordo County



**GROUT
SCOUTS™**



SCoured ABUTMENT
FIX IN MITCHELL
COUNTY



RCP REPAIR FOR IOWA DOT



ARCHED RCB REPAIR
IN GUTHRIE COUNTY



SWL IN CLINTON COUNTY



Grout Scouts, Inc. uses pressure grouting to repair reinforced concrete pipes (RCP); reinforced concrete box culverts (RCBC); scoured bridge abutments; and annulus grouting of Spiral Wound Liners. Since 1996, we have used Trenchless Technology for City, County, State, and Federal Agencies.

TURNING INFRASTRUCTURE LIABILITIES INTO CAPITAL ASSETS

BOX CULVERT FACELIFT



THE RCB IN TAMA COUNTY HAD SEPARATED JOINTS AND EXPOSED REBAR.



THE SEPARATED JOINT WAS TIED AND FORMED WITH FLAT STEEL AND ANCHOR BOLTS.



AND A NEW GROUT INVERT WAS PLACED.



THE RENOVATED RCB WILL PROVIDE SERVICE FOR DECADES.

"The problem areas are taken care of quickly... and perform well."

Lyle Brehm, P.E., Tama and Poweshiek County Engineer

RCP REPAIR



RCP BEFORE REPAIR IN WINNESHIEK COUNTY.



THIS LARGE, ARCHED RCP, HAS SEVERE JOINT SEPARATIONS THAT ALLOW ROADBED SOIL TO BE LOST



THIS RCP HAS BEEN REPAIRED BY HAND PATCHING THE DISTRESSED JOINTS; CONNECTING THE JOINTS FULL LENGTH WITH FLAT STEEL AND ANCHOR BOLTS; AND PUMPING THE VOIDS SURROUNDING AND ABOVE THE RCP BY PRESSURE GROUTING. THE SETTLED PAVEMENT ABOVE THE PIPE IS THEN CORRECTED BY PRESSURE GROUTING.



RCP REPAIR

"We are always very happy. They know what to do and their guys get in and get out, no messing around! I absolutely recommend them."

Lee Bjerke, Engineer, Winneshiek County

SCOURED ABUTMENT FIX



LOCAL FLOODING CAUSED SCOURING ON MANY BRIDGES.



THE REVETMENT BEGINS WITH RIP RAP AND CONCRETE.



EROSION CONTROL STONE IS PLACED.



THE STONE IS GROUTED IN SITU.



FORMS ALLOW THE SCOUR TO BE REPAIRED BY PRESSURE GROUTING.

"Richard is good to work with, he knows what to do and gets it done!"

Rich Brumm, County Engineer, Mitchell County