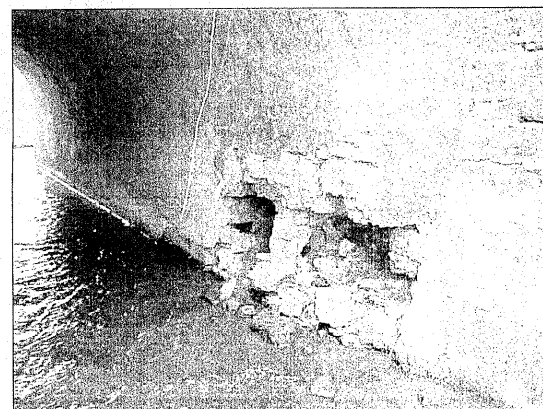


ELEVATION

NOT TO SCALE



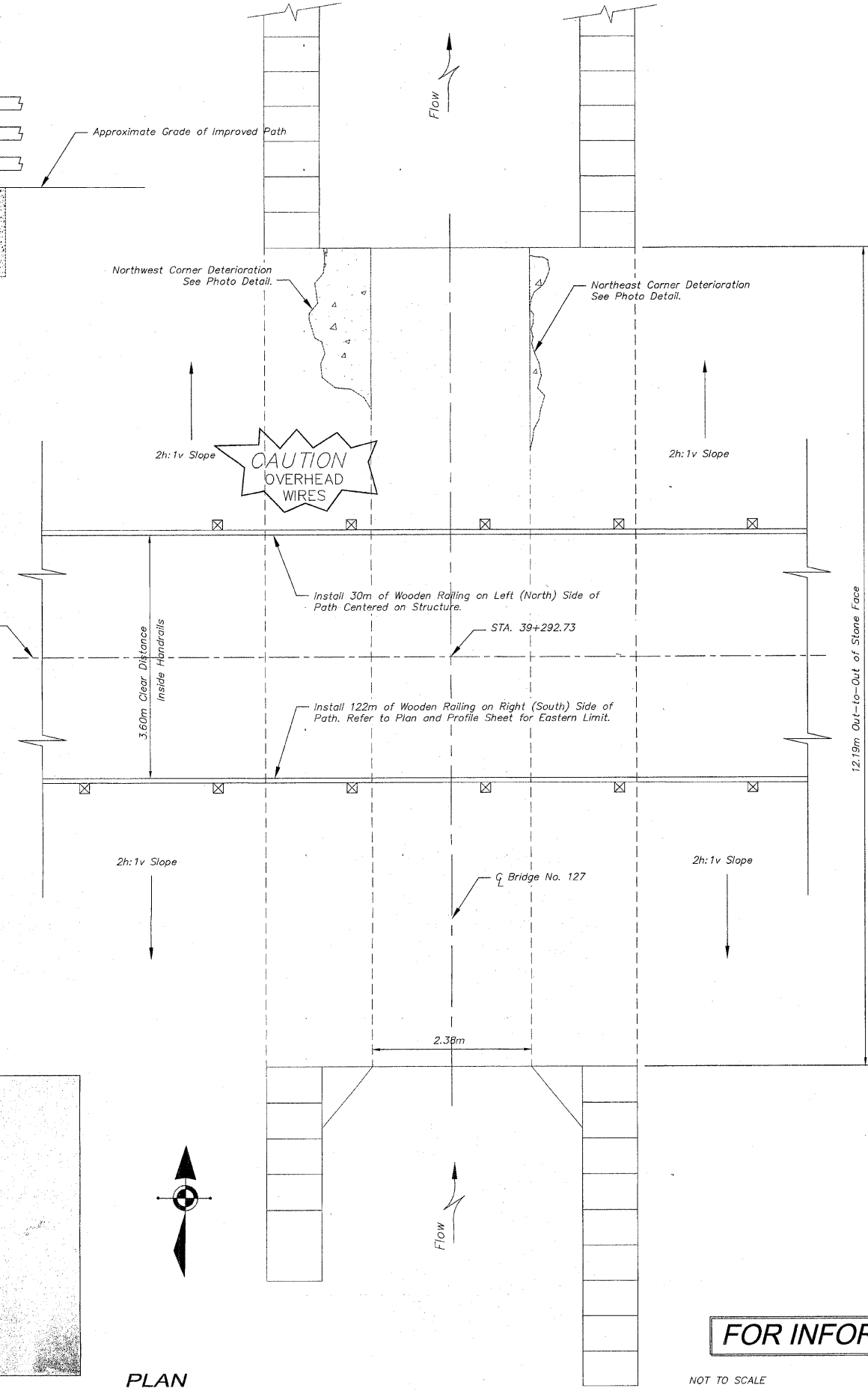
Northwest Corner of Stone Masonry Arch
(Looking South/Upstream)
Restore Deteriorated Areas to Original Arch Dimensions.



Stone Masonry Arch Structure
(Looking North/Downstream)



Northeast Corner of Stone Masonry Arch
(Looking North/Downstream)



PLAN

NOT TO SCALE

BRIDGE 127 NOTES

1. PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURES HAVE BEEN TAKEN FROM FIELD SURVEYS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AND INSTALLED AT THE CONTRACT UNIT PRICE FOR THE SPECIFIC PAY ITEM.
2. STONE MASONRY ARCH BRIDGE SHALL BE RECONSTRUCTED ABOVE AND BELOW THE NORMAL WATERLINE AS REQUIRED TO RESTORE THE WATERWAY OPENING TO THE ORIGINAL DIMENSIONS IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
3. RECONSTRUCTION OF THE ARCH BRIDGE SHALL BE PERFORMED BY A QUALIFIED STONE MASONRY CONTRACTOR. ALL WORK SHALL BE IN ACCORDANCE WITH THE IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST EDITION AND THE CONTRACT SPECIAL PROVISIONS. ALL MATERIAL AND LABOR REQUIRED TO COMPLETELY RESTORE THE ARCH BRIDGE WILL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICE FOR PERFORMANCE BASED SPECIFICATION, CULVERT RESTORATION.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE NECESSARY STAGING AND TEMPORARY SHORING TO COMPLETE THE WORK WHILE ASSURING THE SAFETY AND INTEGRITY OF THE ARCH STRUCTURE.
5. CONTRACTOR SHALL PROVIDE THE NECESSARY MATERIAL AND EQUIPMENT TO DEWATER THE WORK AREA SUCH THAT ALL CONSTRUCTION CAN BE PERFORMED IN DRY CONDITIONS. NO MASONRY CONSTRUCTION WILL BE ALLOWED TO BE PLACED IN FLOWING WATER. REMOVAL AND DISPOSAL OF UNSALVAGEABLE MATERIAL SHALL CONFORM TO THE REQUIREMENT OF SECTION 202.03 OF THE IDOT STANDARD SPECIFICATIONS.

DESIGN LOADING

H-10
Design Fill Height > 610mm

DESIGN STRESSES

$f_c = 35 \text{ MPa}$ (PRECAST)
 $f_c = 24 \text{ MPa}$ (FIELD POURED)
Reinforcing $f_y = 450 \text{ MPa}$ (WELDED WIRE FABRIC)
Reinforcing $f_y = 420 \text{ MPa}$ (FIELD POURED)
Fasteners $f_y = 248 \text{ MPa}$

DESIGN SPECIFICATIONS

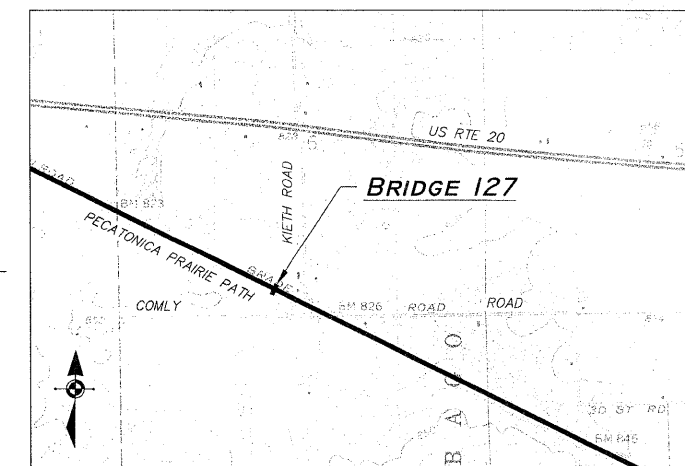
2002 AASHTO Standard Specifications - 17th Edition

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (4) = 3.25%
Site Coefficient(s) = 1.0

BILL OF MATERIAL - BRIDGE 127

ITEM	UNIT	QUANTITY
PERFORMANCE BASED SPECIFICATION, CULVERT RESTORATION	LS	1



LOCATION SKETCH

GENERAL PLAN & ELEVATION
OVER A TRIBUTARY DITCH TO
THE PECATONICA RIVER
SECTION 94-00267-00-BT
WINNEBAGO COUNTY
STATION 39+292.73

FOR INFORMATION ONLY

REVISIONS		
NO.	ITEM	DATE
2	IDOT Review Comments and Internal Review	1/28/2009

PLOTTING SCALE:	1 : 1
DRAWN BY:	REK/CDS
CHECKED BY:	
DATE:	DECEMBER, 2008

McClure
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Design Firm License: Illinois 184-000816
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BRIDGE NO. 127 STA. 39+292.73	
PECATONICA PRAIRIE PATH Contract 85443	
WINNEBAGO COUNTY HIGHWAY DEPARTMENT	SECTION 94-00267-00-BT
FILE NAME: G:\surveys\PECPATH\1ST RELEASE\98-037 a127.dwg	JOB NUMBER: 04-28-98-037

SHEET NO.
86
OF
98