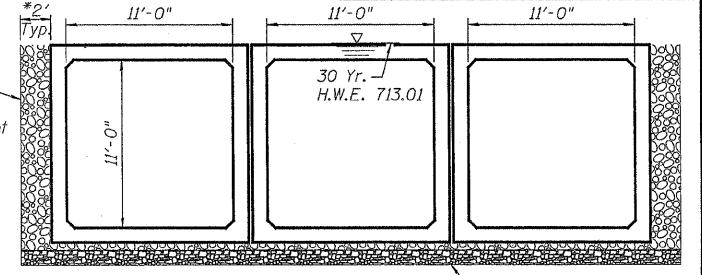
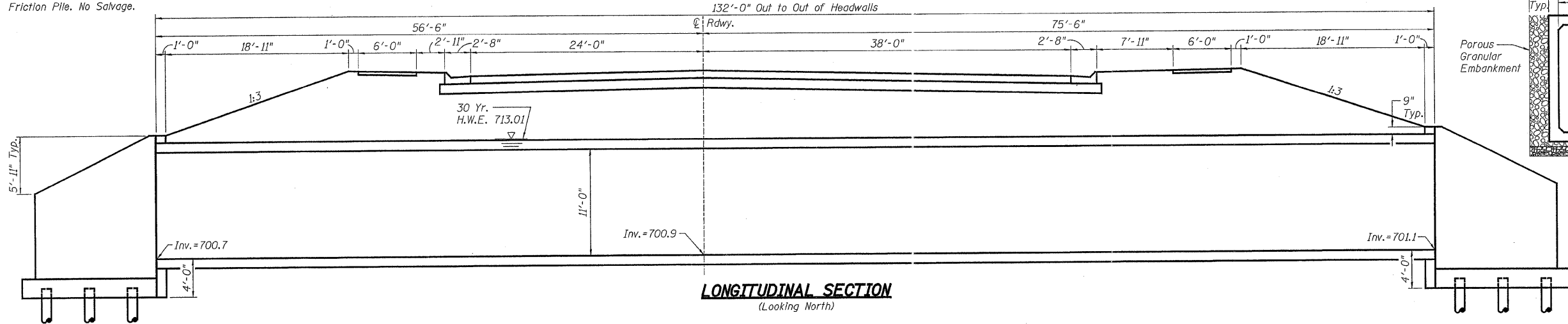


Existing Structure S.N. 101-6041  
A Single Span (1045'-0") Reinforced  
Concrete Filled Spandrel Arch on  
Reinforced Concrete Pile Caps and  
Friction Pile. No Salvage.

STATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL	98-00480-00-BR	WINNEBAGO	62	32
FAPT34	03-00522-00-TL			
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



**SECTION THRU BARREL**  
Looking East

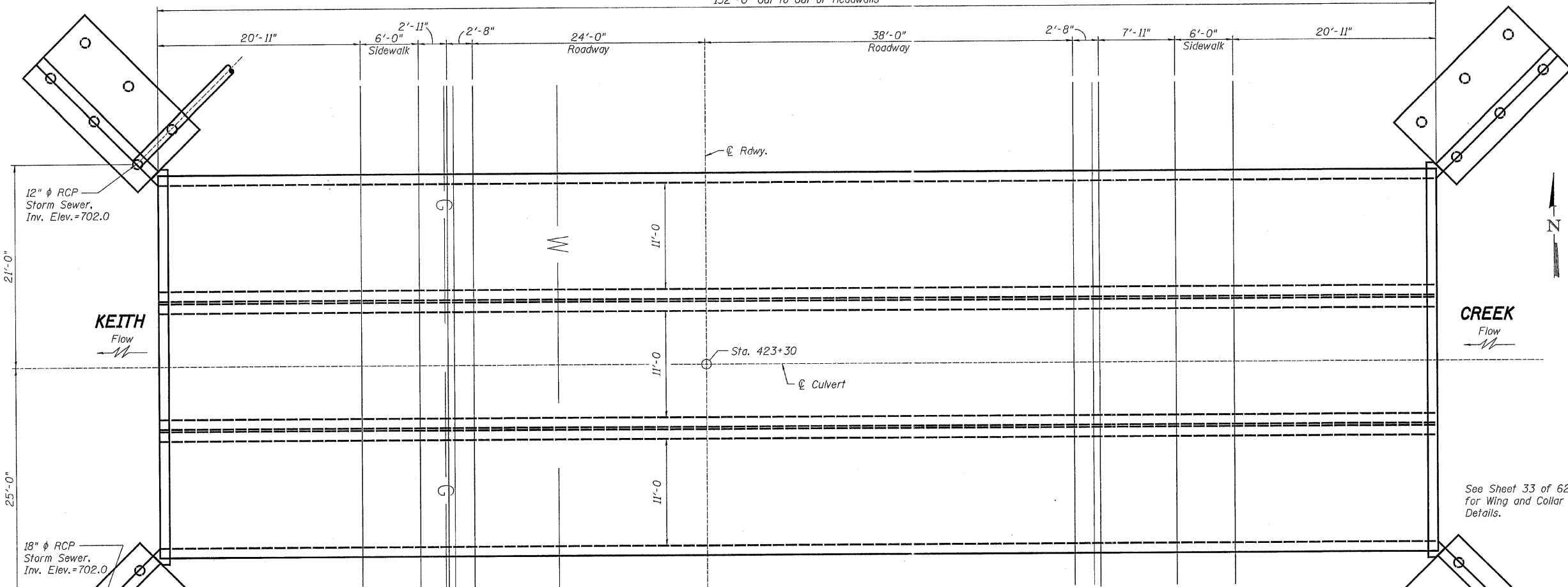
\*Pay Limits of Porous Granular Embankment

**BILL OF MATERIAL - CULVERT**

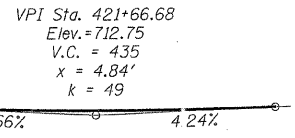
ITEM	UNIT	SUB	SUPER	TOTAL
Porous Granular Embankment	Cu. Yd.	255	---	255
Removal Of Existing Structures	Each	---	---	1
Concrete Structures	Cu. Yd.	91.6	---	91.6
Reinforcement Bars	Pound	10,730	---	10,730
Furnishing Metal Shell Piles 12" X 0.179"	Foot	825	---	825
Driving Piles	Foot	825	---	825
Test Pile Metal Shells	Each	2	---	2
Name Plates	Each	1	---	1
Breaker Run Crushed Stone	Ton	410	---	410
Precast Conc. Box Culvert 11'x11'	Foot	396	---	396
Form Liner Textured Surface	Sq. Yd.	47	---	47
Anti-Graffiti Coating	Sq. Ft.	424	---	424

**GENERAL NOTES**

- Precast concrete box culvert sections shall conform to the requirements of article 540.06 of the standard specifications and the applicable requirements of AASHTO M259.
- Reinforcement bars shall conform to the requirements of AASHTO M31, M42, or M53 Grade 60.
- Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.
- \*\* Cost of porous granular material, other than breaker run crushed stone under culvert, shall be paid for as specified in section 540 of the standard specifications.
- The contractor shall drive a 12"  $\phi$  metal shell test pile in a permanent location at the northeast and southwest wingwalls as directed by the engineer prior to ordering the remainder of the piles.
- Precaster shall provide bar splicers and shear reinforcement in the upstream and downstream sections as shown in Section B-B Sheet 33 of 62. Cost for these items shall be included in the Contract Unit per FOOT for PRECAST CONCRETE BOX CULVERT 11' X 11'
- All Exposed Cast in Place Edges shall have 3/4" Chamfers, Except as Noted.



**PLAN VIEW**



KEITH CREEK  
BUILT 2008 BY  
CITY OF ROCKFORD  
SECTION 98-00480-00-BR  
F.A.P. RT. 734  
STR. NO. 101-6160 LOADING HS20

**NAME PLATE LETTERING**  
REFER TO STD. 515001

**DESIGN SPECIFICATIONS**

Design In Accordance With AASHTO Specifications Dated 2002

**SEISMIC DATA**

Seismic Performance Category (SPC) = A  
Bedrock Acceleration Coefficient (A) = 0.031  
Site Coefficient (S) = 1.2

**DESIGN STRESSES**

f'c = 5,000 PSI (Conc.)  
Fy = 60,000 PSI (Reinf.)

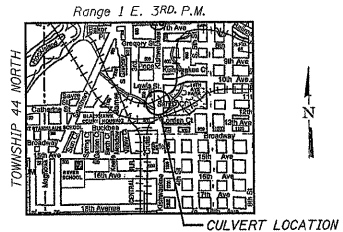
**LOADING HS20-44**

Allow 50#/Sq. Ft. For Future Wearing Surface.



DATE: 4/17/08  
EXPIRES 11/30/08

"I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THIS BRIDGE DESIGN IS STRUCTURALLY ADEQUATE FOR THE DESIGN LOADING SHOWN ON THE PLANS. THE DESIGN IS AN ECONOMICAL ONE FOR THE STYLE OF STRUCTURE AND COMPLIES WITH REQUIREMENTS OF THE CURRENT AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES."



**GENERAL PLAN AND ELEVATION  
KISHWAUKEE STREET OVER KEITH CREEK  
STA. 423+30 (S.N. 101-6160)  
SECTION 98-00480-00-BR  
ROCKFORD, ILLINOIS**

**WILLET, HOFMANN & ASSOCIATES, INC.**  
CONSULTING ENGINEERS  
Land Surveying - Transportation - Structural  
Environmental - Architecture  
809 East Second Street Dixon, Illinois 61021  
Phone 815.284.3381 Fax 815.284.3385  
Design Firm #194-00018  
www.willett-hofmann.com  
WHA # 1158003

DESIGNED BY:  
M. R. LESLIE  
DATE: 2/06  
CHECKED BY:  
B. K. OVERSE  
DATE: 3/06  
DRAWN BY:  
R. D. ALLEN  
DATE: 2/06