

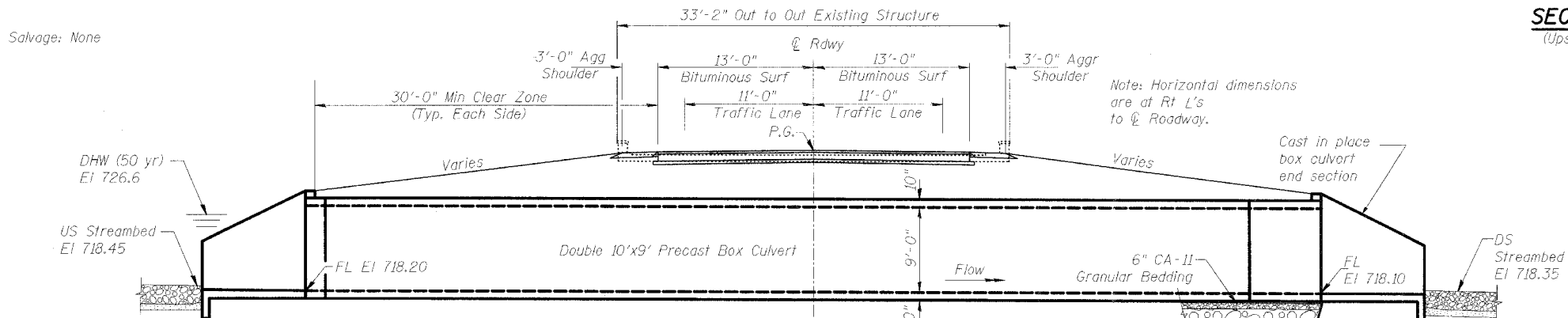
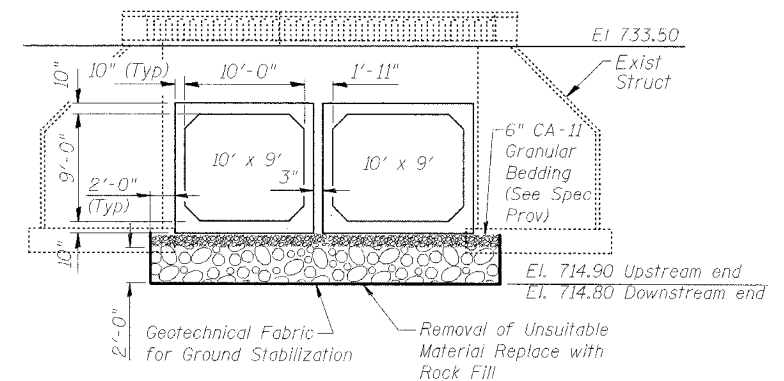
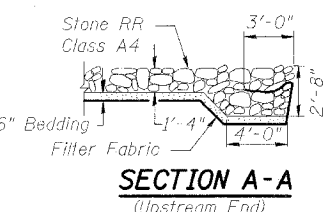
Bench Mark: Sta 60+24± 25'± Rt, Chiseled square in NW wingwall, El 732.81

Existing Structure: S.N. 088-0015, concrete slab 30'-5" Bk to Bk closed abutments on spread footings. Width of bridge 33'-2" Out-to-Out. Built as Section 108-B (1933). The contractor shall remove the existing structure.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1379	(108-B-1)BR	STARK	43	15
STA. 51+30.00		TO STA.		
		ILLINOIS IL RTE 91		

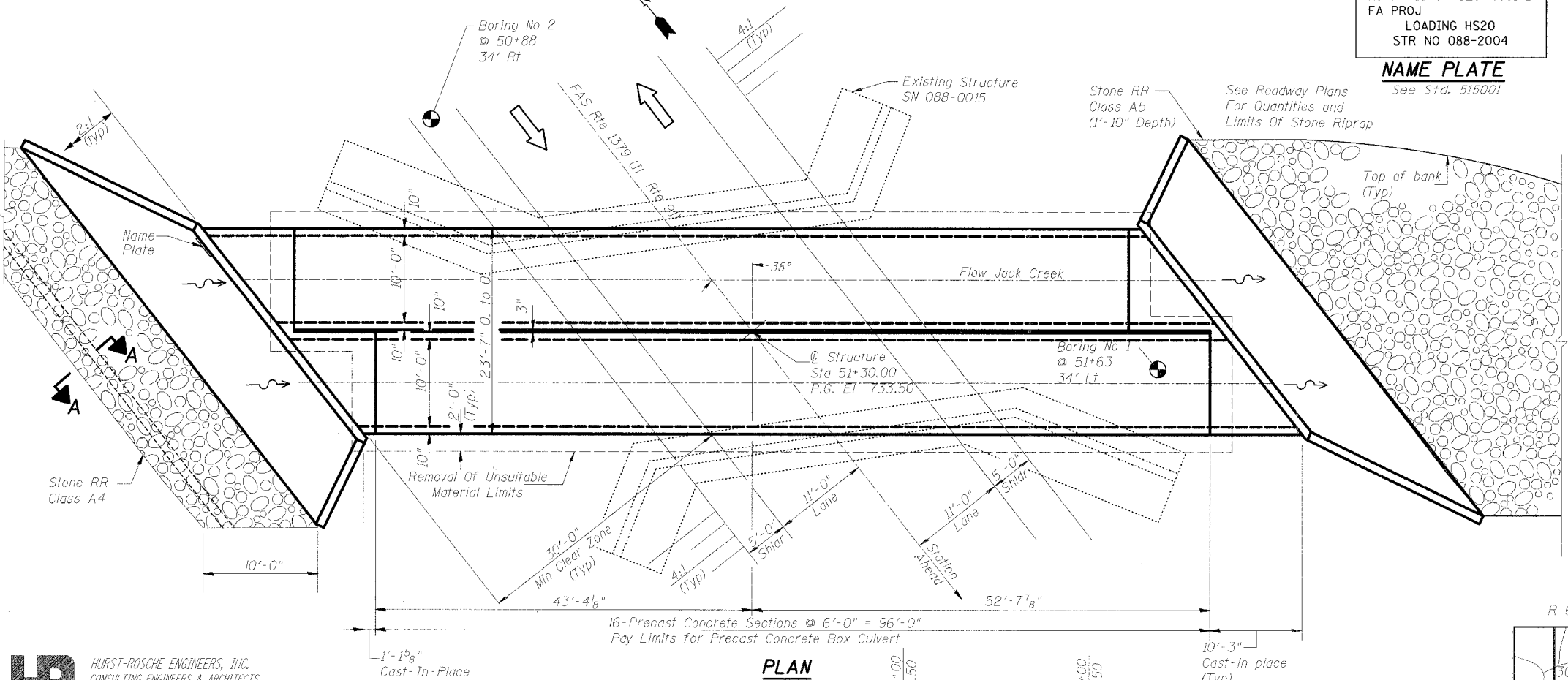
Salvage: None



Note: Precast culvert sections at the ends of each barrel are to have exposed reinforcing bars to be tied into cast in place portion.

STA 51+30.00
BUILT 20... BY
STATE OF ILLINOIS
FAS RT 1379 SEC (108B)BR
FA PROJ
LOADING HS20
STR NO 088-2004
NAME PLATE
See Std. 515001

- GENERAL NOTES**
1. Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42, or M-53 Grade 60.
 2. All exposed edges shall have 3/4" chamfer.
 3. For back filling and embankment see Standard Specifications Art 502
 4. This box culvert has a fill height of 5.5 feet. The precast concrete box culvert shall conform to the requirements of AASHTO M 259.
 5. Precast end sections are not allowed.
 6. Remove existing structure including wings, abutments, and footings. Cut off piles at bottom of unsuitable material excavation.
 7. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

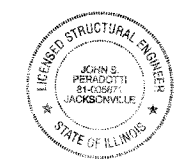


TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal and Disposal of Unsuitable Material	Cu Yd	204
Geotechnical Fabric for Ground Stabilization	Sq Yd	377
Removal of Existing Structures	Each	1
Name Plates	Each	1
Box Culvert End Section, Culvert No 1	Each	2
Precast Concrete Box Culvert 10' x 9'	Foot	192
* Rock Fill	Ton	409

* See Special Provisions

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson (ITD)
ENGINEER OF BRIDGES AND STRUCTURES



John S. Peradotti 4-25-06
John S. Peradotti
Licensed Structural Engineer
in Illinois No. 081-005671
License Expires 11/30/06

HR HURST-ROSCHKE ENGINEERS, INC.
CONSULTING ENGINEERS & ARCHITECTS
1400 E. TREMONT ST.
HILLSBORO, ILLINOIS 62049

DESIGNED	BWP
CHECKED	JSP
DRAWN	BAD
CHECKED	JSP

WATERWAY INFORMATION

Drainage Area = 4.4 Sq mi		Low Grade El 733.0		Sta 51+50	
Flood	Freq Yr	Q cfs	Opening sq ft	Nat HWE	Headwater El
Design	50	1250	166	726.6	0.8
Base	100	1460	174	726.9	1.0
Overtopping					
Max Calc	500	1950	190	727.5	1.2

PROFILE GRADE

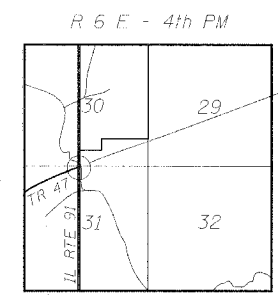
DESIGN STRESSES
FIELD UNITS
f'c = 3,500 psi
Ty = 60,000 psi (Reinf)

DESIGN SPECIFICATIONS

1996 AASHTO with 1997, 1998, 1999 & 2000 Interims
LOADING HS 20-44
Allow 50 lb/sf for Future Wearing Surface.

SEISMIC DATA

Seismic Performance Category (SPC) = A
Acceleration Coefficient (A) = 0.04
Site Coefficient (S) = 1.0



GENERAL PLAN & ELEVATION
FAS 1379 (IL RTE 91) OVER
JACK CREEK
SECTION (108B)BR
STARK COUNTY STA 51+30.00
SN 088-2004