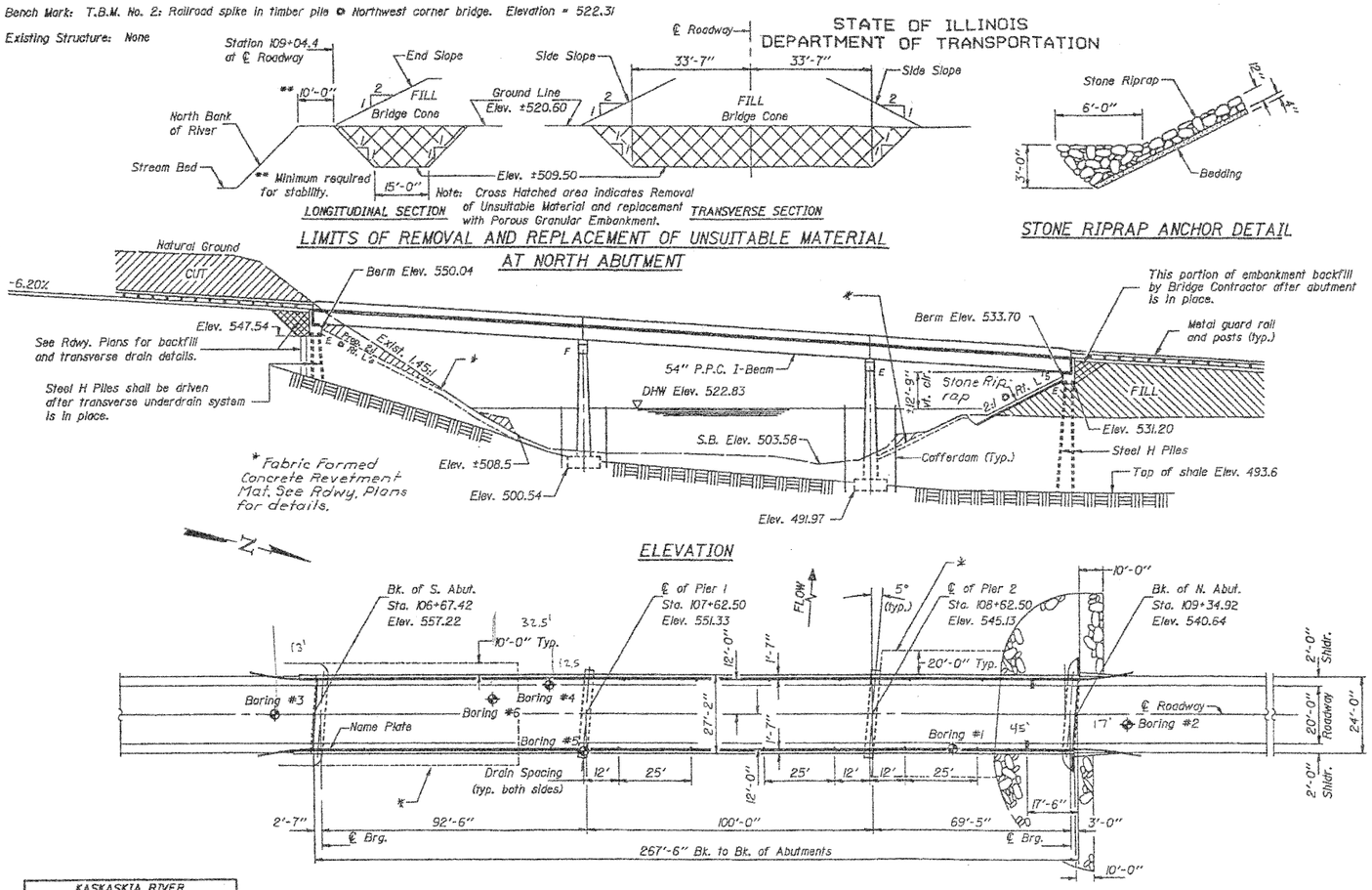
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 389	100BR	SHELBY	76	24

SHEET NO. 1 20 SHEETS

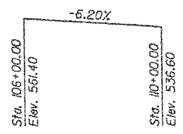
Bench Mark: T.B.M. No. 2: Railroad spike in timber pile ⊙ Northwest corner bridge. Elevation = 522.31

Existing Structure: None



KASKASKIA RIVER
BUILT 19 BY
ROAD DISTRICT
SHELBY COUNTY - SECTION 100BR
PROJECT BRPOS-173 (62)
STA. 108+01.17
STR. NO. 087-3434 LOADING HS20

NAME PLATE
See Std. 2113



PROFILE GRADE
(along ℄ roadway)

DESIGNED	SA.	ZK
CHECKED	SA.	ZK
DRAWN		F.M.
CHECKED	SA.	ZK

3-18-86

January 7 1987
EXAMINED Jerry L. Kaspar ENGINEER OF MOVING DESIGN
PASSED James T. Kaufman ENGINEER OF BRIDGES AND STRUCTURES
APPROVED DIRECTOR OF HIGHWAYS

WATERWAY INFORMATION

Drainage Area = 1240 sq. mi. Low Grade Elev. 520.39 ⊙ Sta. 117+00.00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	15	10558	1952	2231	522.83	0	0.12	522.83	522.95
Base	100	13313	2048	2342	523.47	0	0.38	523.47	523.85
Overtopping	5	8727	1875	2141	522.31	0	0	522.31	522.31
Max. Calc.	500	15574	2122	2430	523.97	0.16	0.62	524.13	524.59

DESIGN SPECIFICATIONS

1983 AASHTO, 1984 and 1985 Interim Specifications.

LOADING HS20-44

Allow 25#/sq. ft. for future wearing surface.

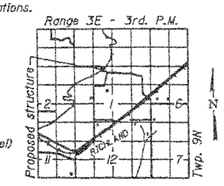
DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi
f_y = 60,000 psi (Reinf.)
fy = 36,000 psi AASHTO M-183 (Struct. Steel)

PRECAST PRESTRESSED UNITS

$f'c$ = See sheets 8,9 & 10 of 20
$f'ci$ = See sheets 8,9 & 10 of 20
f'_s = 270,000 psi (½" ϕ strands)
f'_{si} = 189,000 psi (½" ϕ strands)



LOCATION SKETCH

GENERAL PLAN
TR 389 OVER KASKASKIA RIVER
TR 389 SECTION 100BR
SHELBY COUNTY
STATION 108+01.17
STRUCTURE NO. 087-3434

Johnson, Depp & Quisenberry CONSULTING ENGINEERS Springfield, Illinois	
DESIGNED: IDOT	DRAWN: PTR
CHECKED: DCD	CHECKED: DCD

NOTE:
SOIL BORING INFORMATION ON THIS SHEET IS FOR REFERENCE ONLY, AND IS TAKEN FROM THE 1987 PLANS FOR THE ADJACENT TR 389 BRIDGE, LOCATED ABOUT 150 FEET UPSTREAM FROM THE COVERED BRIDGE.

SOIL BORINGS (2 OF 4)
THOMPSON MILL COVERED BRIDGE OVER KASKASKIA RIVER
STRUCTURE NO. 087-0019

SHEET 10 OF 12

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389A	D-7 Bridge Appr. 2009-1	SHELBY	14	12
	STA. 50+00	CONTRACT NO. 74337		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DATE: 02/04/2009 16:39:25 USER: DCD FILE: J:\JDQ\11061L-DTV\#4 Thompson Mill Covered Bridge\1-Thompson Mill\09borings.dgn