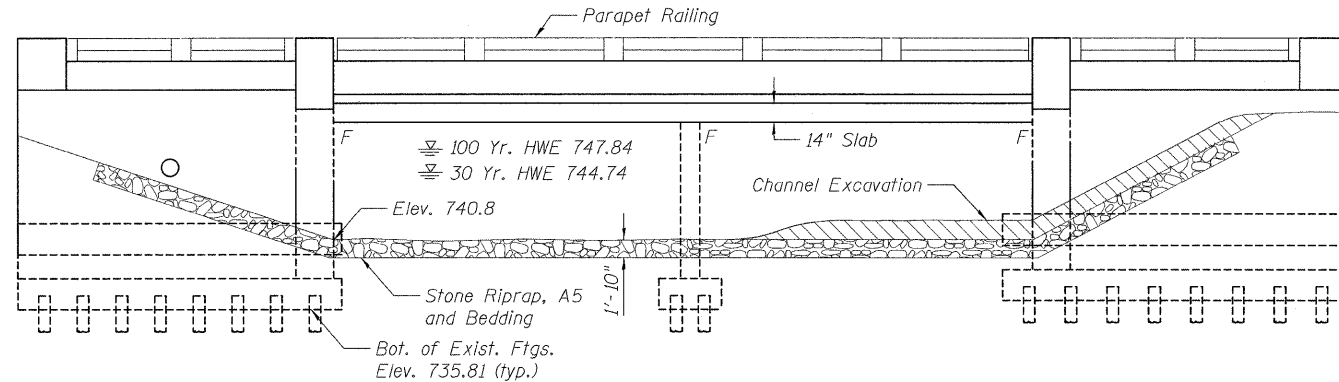


B.M. - Top of concrete end post at northwest corner of existing bridge deck. Elev. = 752.07

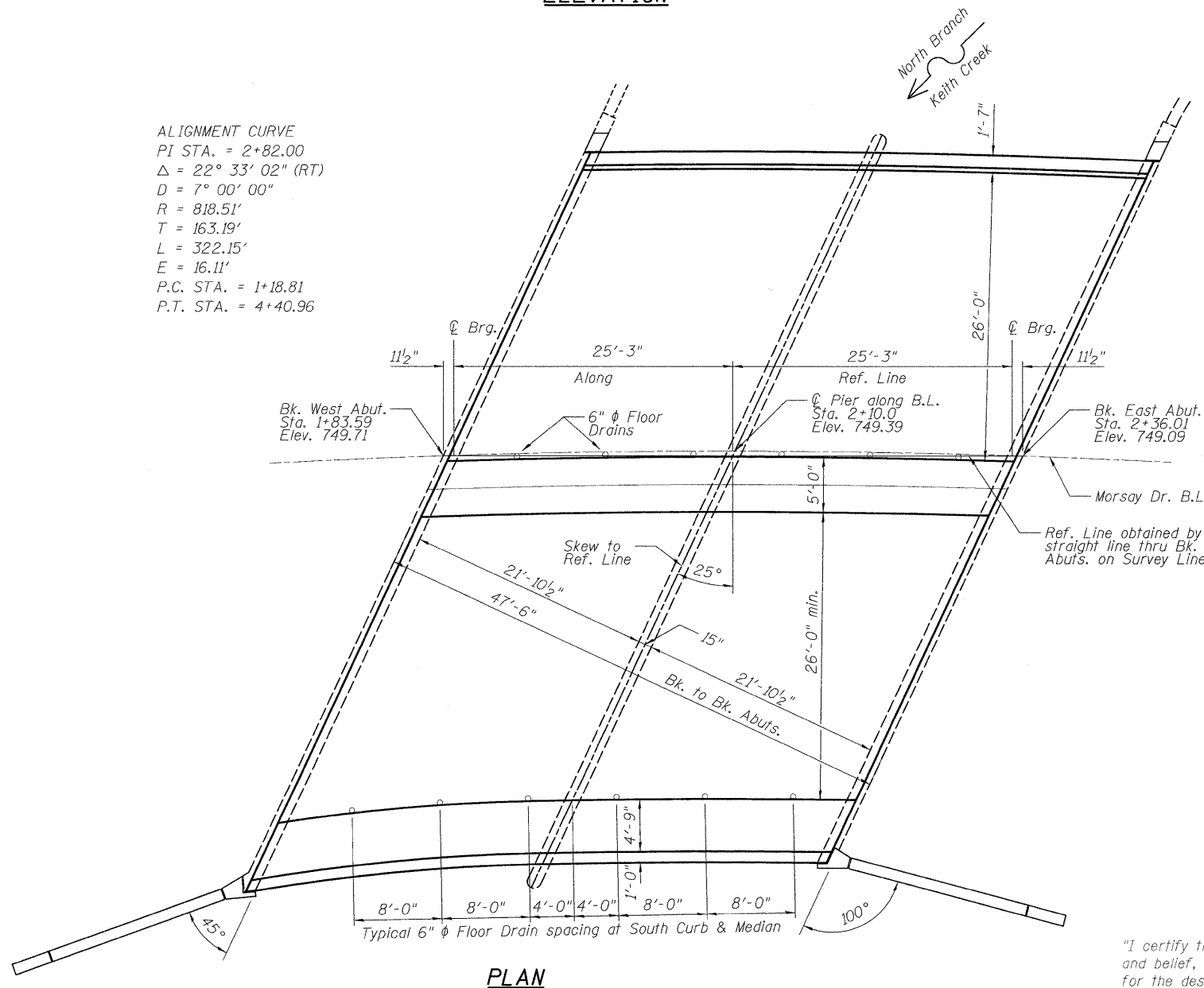
Existing Structure - Structure No. 101-6061 consists of a two-span reinforced concrete slab superstructure on closed concrete abutments and solid wall pier. Existing bridge is approximately 53 ft. long and 65 ft. wide, and is horizontally curved. The bridge was built in 1967 under Section 195-B-CS.

Salvage - Existing Name Plate shall be cleaned and relocated next to new Name Plate.



ELEVATION

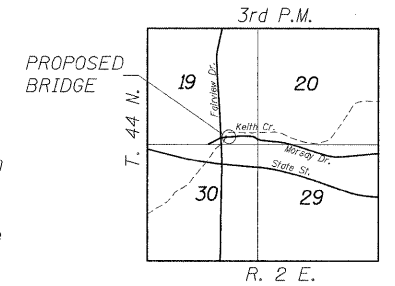
ALIGNMENT CURVE
 PI STA. = 2+82.00
 $\Delta = 22^\circ 33' 02''$ (RT)
 $D = 7^\circ 00' 00''$
 $R = 818.51'$
 $T = 163.19'$
 $L = 322.15'$
 $E = 16.11'$
 P.C. STA. = 1+18.81
 P.T. STA. = 4+40.96



PLAN

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction 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 scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
4. The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection.
5. Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.



LOCATION SKETCH

DESIGN SPECIFICATIONS

2002 AASHTO LFD Bridge Design Specifications - 17th edition

LOADING HS-20

Allow 50 #/sq. ft. for future wearing surface.

DESIGN STRESSES

New Super: $f'_c = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i.
 Existing Sub: $f'_c = 3,500$ p.s.i.
 $f_y = 40,000$ p.s.i.

SEISMIC DATA

Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.035g
 Site Coefficient (s) = 1.0

DESIGN SCOUR ELEVATION TABLE

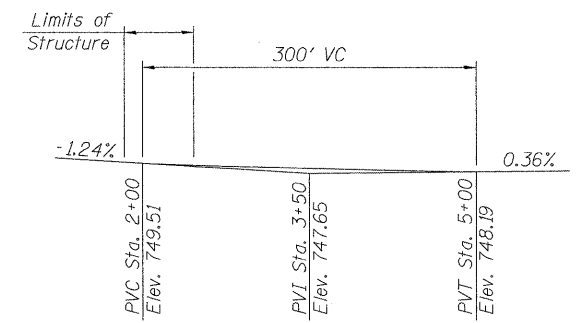
Design Scour Elevation (ft.)	S. Abut.	Pier 1	N. Abut.
	735.5	735.5	735.5

WATERWAY INFORMATION

Drainage Area = 6.6 Sq. Mi.		Low Grade Elev. = 749.09							
Flood	Yr.	Q C.F.S.	Opening Exist.	Prop.	Nat. H.W.E.	Head - Ft. Exist.	Prop.	Headwater El. Exist.	Prop.
Design	30	370	153	153	744.7	0.04	0.04	744.74	744.74
Base	100	1280	279	279	747.7	0.14	0.14	747.84	747.84

TOTAL BILL OF MATERIAL

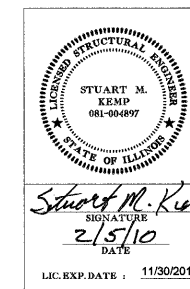
Item	Unit	Super	Sub.	Total
Removal of Existing Superstructure	L. Sum	1		1
Structure Excavation (Special)	Cu. Yd.		258	258
Floor Drains	Each	12		12
Concrete Structures	Cu. Yd.		4.8	4.8
Concrete Superstructure	Cu. Yd.	170.5		170.5
Bridge Deck Grooving	Sq. Yd.	275		275
Protective Coat	Sq. Yd.	411	17	428
Reinforcement Bars, Epoxy Coated	Lbs.	36,970	600	37,570
Parapet Railing	Foot	102.2	32.3	134.5
Name Plates	Each	1		1
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.		110	110
Structural Repair of Concrete (Depth Greater than 5 Inches)	Sq. Ft.		20	20
Drill and Grout Bars	Each		92	92



PROFILE GRADE

Morsay Drive

**NORTH KEITH CREEK
 BUILT 1967 BY
 CITY OF ROCKFORD
 RE-BUILT 20...
 SECTION 09-00565-00-BR
 STATION 2+10
 STR. NO. 101-6061 LOADING HS20**



LETTERING FOR NAME PLATE

Existing Name Plate shall be cleaned and relocated next to new Name Plate, Cost included with Name Plates.
 (See Std. 515001 for location)

"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.'"

09L0012	01/28/10	Corporate License Number JB4-001-084	© Copyright Hanson Professional Services Inc. 2009		SHEET NO. 1		FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				8 SHEETS		5068	09-00565-00-BR	WINNEBAGO	14	7	
								CONTRACT NO. 85507			
								FED. ROAD DIST. NO. 2		ILLINOIS FED. AID PROJECT	

GENERAL PLAN AND ELEVATION

**MORSAY DRIVE BRIDGE
 OVER NORTH BRANCH OF KEITH CREEK
 FAU 5068
 SEC. 09-00565-00-BR
 WINNEBAGO COUNTY, ILLINOIS
 STATION 2+10
 STRUCTURE NO. 101-6061**

02.05.2010
 I:\05\05\09\0012\CADD\Struct\Sheet\5-007-678&L.dgn
 LAYOUT: SWK 10/21/09
 DRAWN: JOM 11/20/09
 REVIEWED: SWK 11/20/09