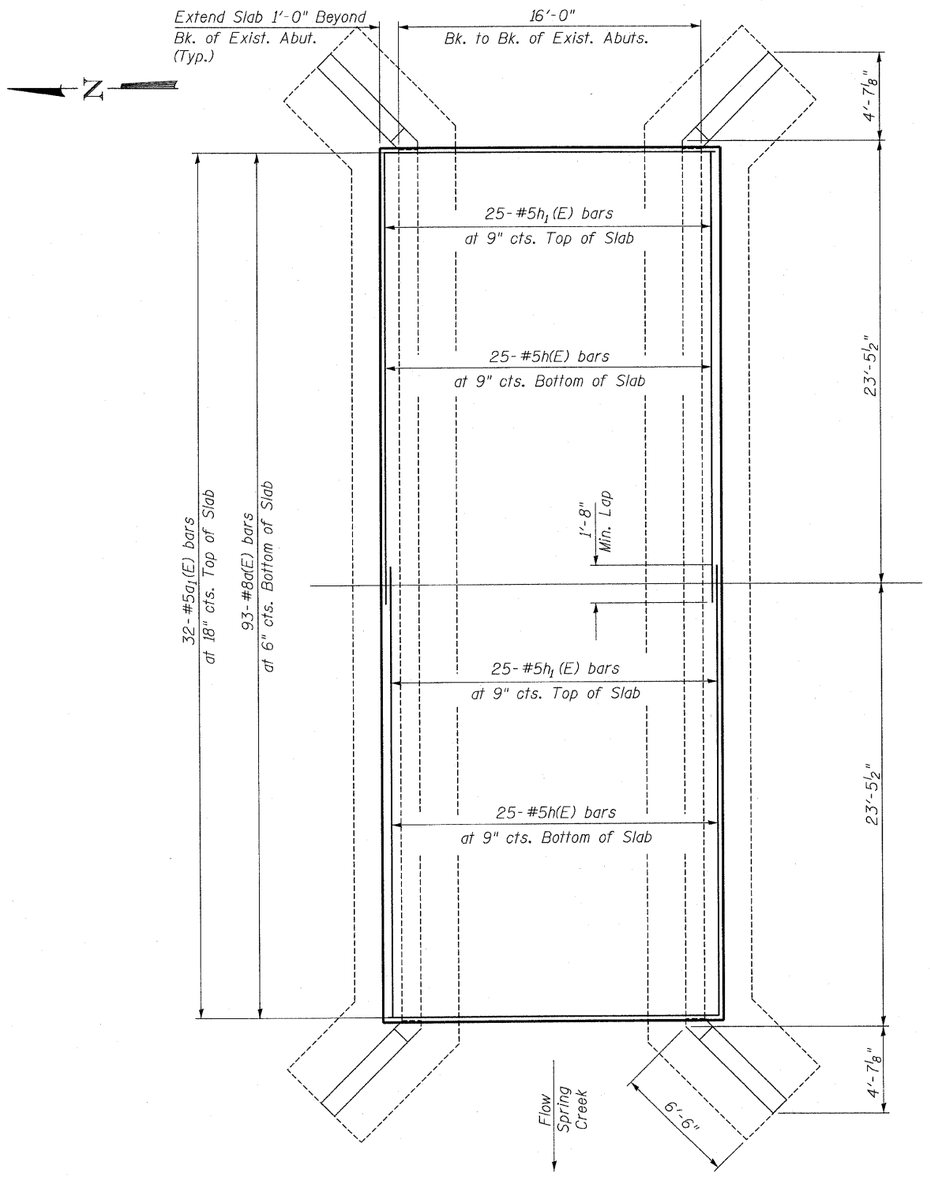
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Existing Structure:

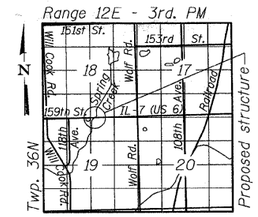
The existing structure is a single span reinforced concrete slab bridge.

An assigned detour will be utilized to redirect traffic around the structure during construction.

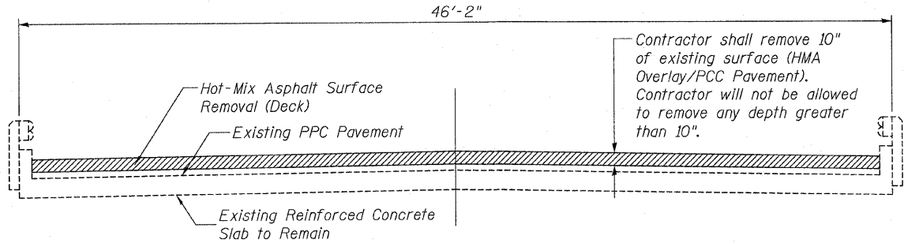
No salvage.



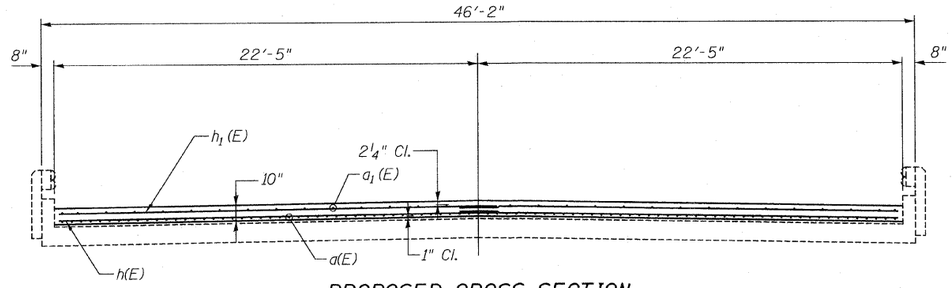
EXISTING PLAN



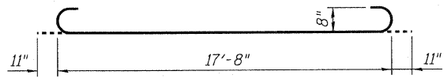
LOCATION SKETCH



EXISTING CROSS SECTION



PROPOSED CROSS SECTION



BAR a (E)

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
d(E)	93	#8	19'-6"	
a_1(e)	32	#5	17'-8"	
h(E)	50	#5	23'-1"	
h_1(E)	50	#5	23'-1"	

ITEM	UNIT	QUANTITY
Hot Mix AsphaltSuface Removal (Deck)	Sq. Yd.	98
Reinforcement Bars, Epoxy Coated	Pound	7,850
Concrete Superstructure	Cu. Yd.	26
Protective Coat	Sq. Yd.	98
Bridge Deck Grooving	Sq. Yd.	89

DESIGN SPECIFICATIONS

LOADING HS-20

AASHTO Standard Specifications for Highway Bridges, 17th Edition

DESIGN STRESSES

f'_c = 3,500 psi
f_y = 60,000 psi

SCOPE OF WORK

1. *Remove 10" Thickness of Existing Overlay/PCC Pavement.*
2. *Place New Structural Reinforced Concrete Overlay.*
3. *The Protective Coat shall be placed on the inside and top face of the Headwalls.*

STATE OF ILLINOIS · STAN-LEE KADERBEK · 081-004620 · LICENSED STRUCTURAL ENGINEER

COLLINS ENGINEERS, INC.
STAN-LEE KADERBEK
NO. 081-004620
EXPIRES 11-30-2010

GENERAL PLAN & SECTION
F.A.P. ROUTE 351 SEC. 536T-1
COOK COUNTY
STATION 453+72
STRUCTURE NO. 016-1210

DESIGNED	JMH
CHECKED	JMH
DRAWN	DR
CHECKED	JMH

2010

EXAMINED

ENGINEER OF STRUCTURAL SERVICES

PASSED

ENGINEER OF BRIDGES AND STRUCTURES

SHEET NO. S1 OF S2 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	351	536T-1	COOK	8	4
			CONTRACT NO. 60162		
		ILLINOIS	FED. AID PROJECT		