ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 42	2BR	WASHINGTON	2	1
FED. ROAD DIST. NO. 8	ILLINOIS PROJECT			

Bench Mark:

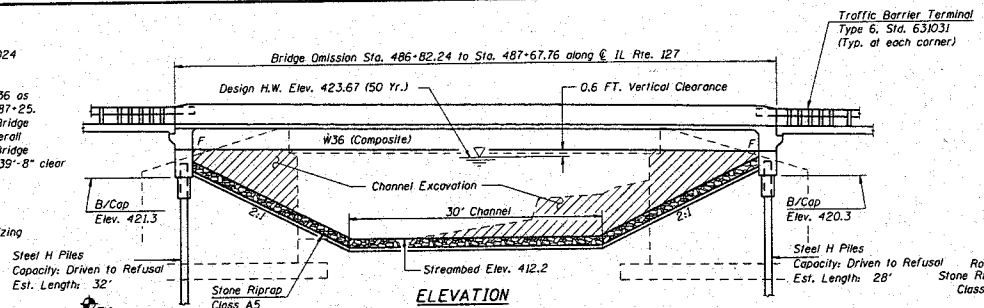
Disc in SE Headwall of Bridge S.N. 095-0024
Elev. 430.18

Existing Structure: S.N. 095-0024 built 1936 as S.B.I. Route 127, Sec. 2-B-NRH at Sta. 487+25. Single Span Reinforced Concrete T-Beam Bridge on Closed Abutments with timber piles. Overall length is 53'-0" back to back abutments. Bridge width is 43'-6" out to out of deck with a 39'-8" clear roadway width.

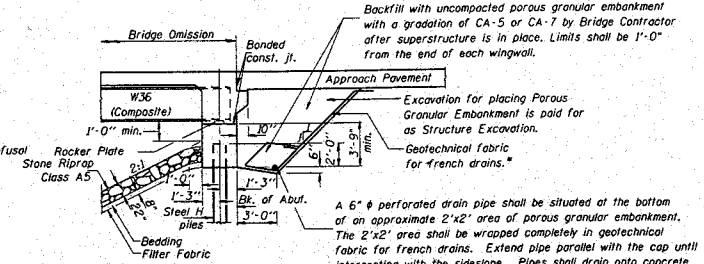
To be removed in Stages.

Traffic shall be maintained at all times utilizing Stage Construction.

No Salvage.



ELEVATION



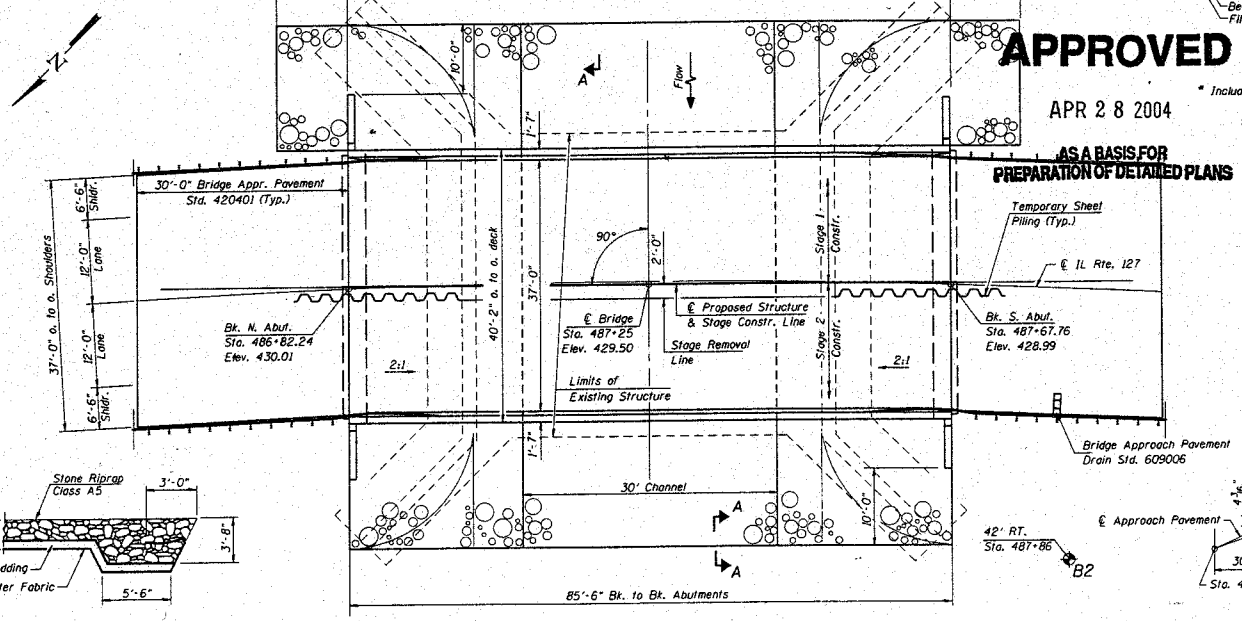
* Included in the cost of Porous Granular Embankment.

SECTION THRU INTEGRAL ABUTMENT

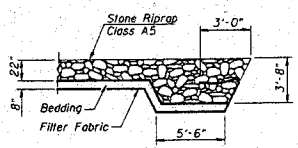
APPROVED

APR 28 2004

AS A BASIS FOR PREPARATION OF DETAILED PLANS



PLAN



SEC A-A
Flank Stone Riprap Detail

CURVE DATA

(℄ F.A.P. Route 42)

Δ = 44° 23' 09"
D = 4° 23' 56"
T = 531.35'
R = 1,302.50'
L = 1,009.02'
E = 104.21'
S.E. = 0.063'/Ft.
P.C. Sta. = 478+86.04
P.I. Sta. = 484+17.40
P.T. Sta. = 488+95.06

DESIGN SPECIFICATIONS

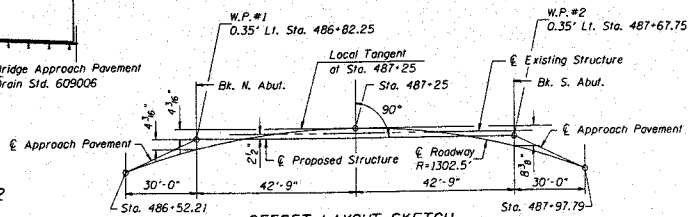
2002 AASHTO

LOADING HS20-44

Allow 50#/Sq. Ft. for future wearing surface

DESIGN STRESSES

f'_c = 3,500 psi
f_y = 60,000 psi (Reinforcement)
f_y = 50,000 psi (Structural Steel)

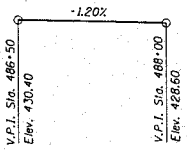


OFFSET LAYOUT SKETCH

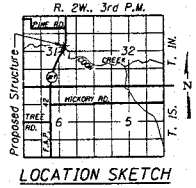
WATERWAY INFORMATION

Drainage Area = 12.36 Sq. Mi. Low Grade Elev. 426.02 ⊙ Sta. 492+12

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		50	3231	444	547	423.67	2.09	1.52	425.76	425.19
Base		100	3712	458	567	423.95	2.44	1.75	426.39	425.70
Overtopping	Exist.	71	3425	449	—	423.78	2.24	—	426.02	—
	Prop.	167	4000	—	579	424.11	—	1.91	—	426.02
Max. Calc.		—	—	—	—	—	—	—	—	—



PROFILE GRADE
(along ℄ F.A.P. Rte. 42)



LOCATION SKETCH

HIGHWAY CLASSIFICATION

F.A.P. Route 42 - IL Route 127
Functional Class: Minor Arterial
ADT: 2,550 (2003); 5,200 (2024)
DHV: 255
Design Speed: 60 mph
Posted Speed: 55 mph

SEISMIC DATA

Seismic Performance Category (SPC) = B
Bedrock Acceleration Coefficient (A) = 0.10
Site Coefficient (S) = 1.0

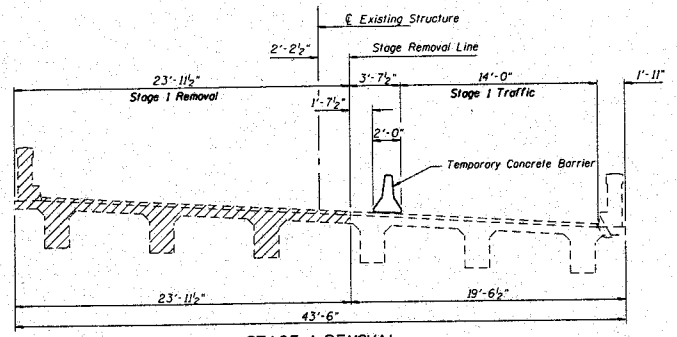
DESIGNED	T.S.H.
CHECKED	M.D.C.
DRAWN	T.S.H. & A.J.E.
CHECKED	M.D.C.

GENERAL PLAN & ELEVATION

IL ROUTE 127 OVER COON CREEK
F.A.P. ROUTE 42 SECTION 2BR
WASHINGTON COUNTY
STA. 487+25
S.N. 095-0076

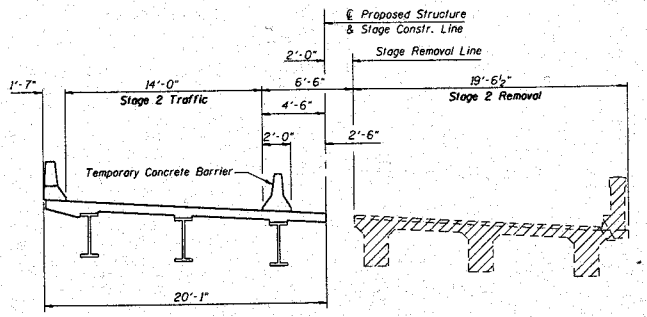
JOB #:	2076
FILE:	BRIDGE1
DATE:	4/23/04

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 42	2BR	WASHINGTON	2	2
FED. ROAD DIST. NO. 9	ILLINOIS	PROJECT		



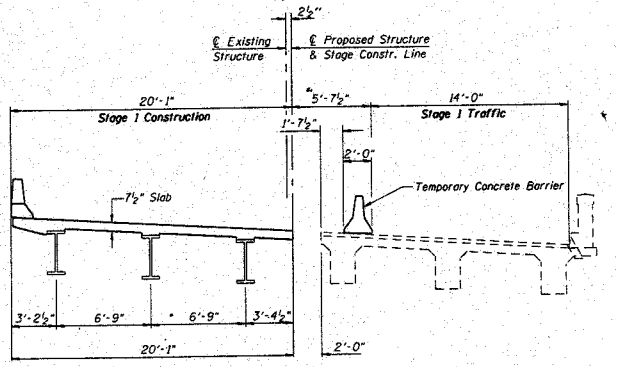
STAGE 1 REMOVAL

(Looking South)



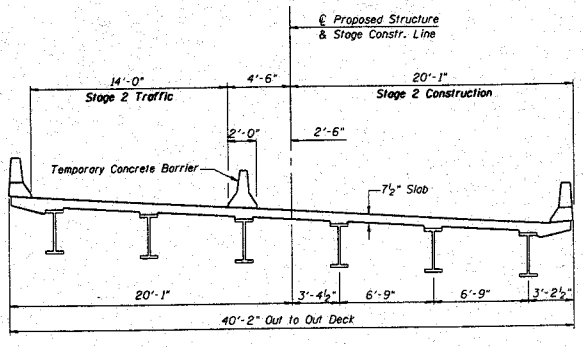
STAGE 2 REMOVAL

(Looking South)



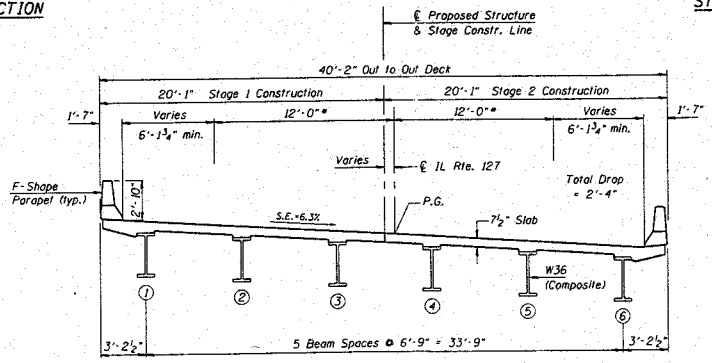
STAGE 1 CONSTRUCTION

(Looking South)



STAGE 2 CONSTRUCTION

(Looking South)



CROSS SECTION

(Looking South)

* Radial Dimensions

DESIGNED	T.S.H.
CHECKED	M.D.C.
DRAWN	T.S.H. & A.J.E.
CHECKED	M.D.C.

CROSS SECTION &
STAGE CONSTRUCTION DETAILS

IL ROUTE 127 OVER COON CREEK
F.A.P. ROUTE 42 SECTION 2BR
WASHINGTON COUNTY
STA. 487+25
S.N. 095-0076

JOB #: 2076
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