

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 4	04-00034	IROQUOIS	16	3
FAS 321	04-BR			
ROAD DIST.	ILLINOIS	PROJ. NO. BRS-32K(13)		
CONTRACT NO. 87299				

PAVEMENT DESIGN

STRUCTURAL DESIGN TRAFFIC (S.D.T.): YEAR 2014; P.V. = 532, S.U. = 42, M.U. = 31
CLASS III ROAD

MINIMUM SOIL SUPPORT: E = 3 k.s.i. (ASSUMED)

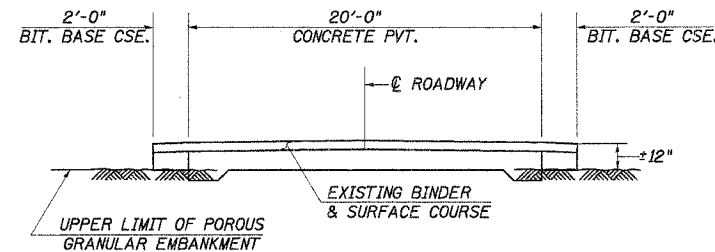
Percent of S.D.T. in Design Lane: P = 50%, S = 50%, M = 50%
T.F. = 0.166 D. T. = 3.13

Pavement Structural Materials:

Typical Proposed Roadway Cross-Section-#1
Hot-Mix Asphalt Base Course 12" with Hot-Mix Asphalt Surf. & Binder Cse. (+5")

Typical Proposed Roadway Cross-Section-#2
Existing Concrete Base Course 9" and 3" Bituminous Conc. Surf. & Binder Cse., with proposed Hot-Mix Asphalt Binder and Surface Courses, 3" Minimum.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS			
ITEM	ASPHALT GRADE	ALLOWABLE RAP	VOIDS
LEVELING BINDER, N50	P.G. 64-22	15%	4.0%
SURFACE, MIX C, N50	P.G. 64-22	15%	4.0%
BASE COURSE	P.G. 58-22	15%	2.0%



EXISTING APPROACH PAVEMENT REMOVAL

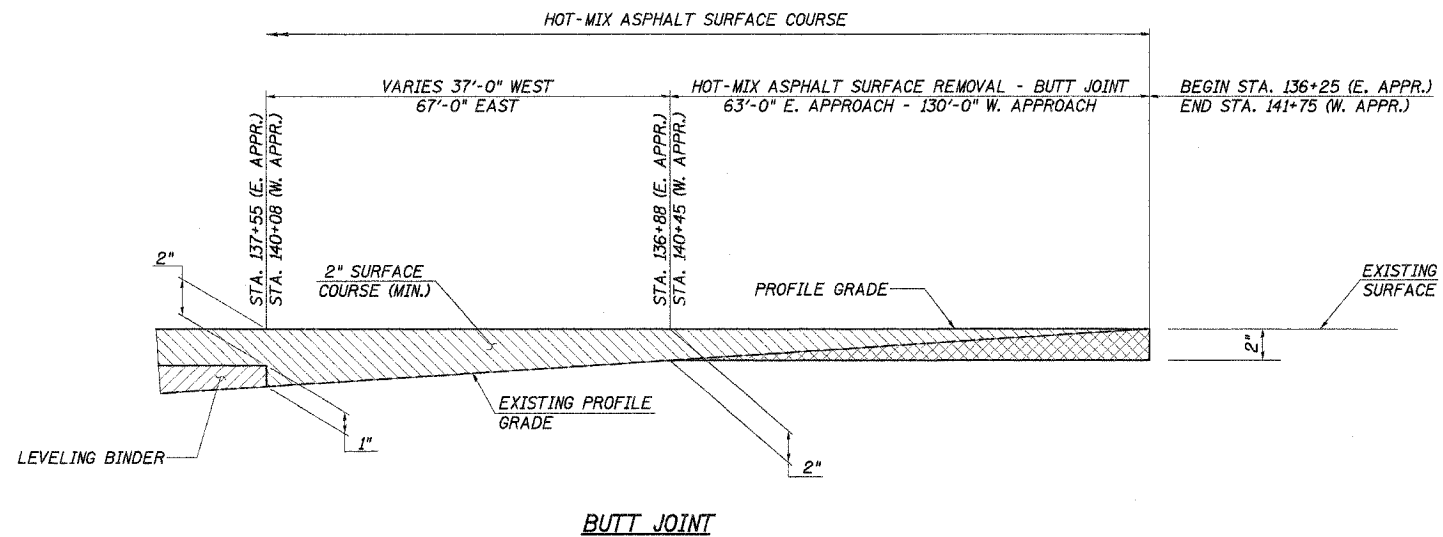
STA. 138+46.04(±) TO STA. 138+66.04(±) = 53.3 SQ. YD.
STA. 139+43.96(±) TO STA. 139+63.96(±) = 53.3 SQ. YD.
TOTAL = 106.6 SQ. YD.

NOTE: REMOVAL OF 2' WIDENING IS INCIDENTAL TO "APPROACH PAVEMENT REMOVAL."

APPLICATION RATES USED IN QUANTITY CALCULATIONS

STONE RIPRAP, CLASS A4	1.50 TON/CU. YD.
GRANULAR MATERIALS	2.05 TON/CU. YD.
AGGREGATE SHOULDERS	2.05 TON/CU. YD.
BITUMINOUS MATERIALS (PRIME COAT)	0.10 GAL./SQ. YD.
HOT-MIX ASPHALT	112 LB./SQ. YD./IN.

NOTE:
THE ABOVE NOTED APPLICATION RATES ARE FOR QUANTITY CALCULATIONS ONLY. THE APPLICATION RATE TO BE APPLIED WILL BE DETERMINED BY THE ENGINEER AT THE TIME OF PLACEMENT.



HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

STA. 136+25 TO STA. 136+88 = 154 SQ. YD.
STA. 140+45 TO STA. 141+75 = 318 SQ. YD.
TOTAL = 472 SQ. YD.

ROADWAY PAVEMENT NOTES

COUNTY HIGHWAY 4
SECTION 04-00034-04-BR
IROQUOIS COUNTY
STA. 139+05

4440 ASH GROVE SPRINGFIELD, IL 62711 (217) 793-8000 www.fehr-graham.com	FEHR-GRAHAM & ASSOCIATES, LLC ENGINEERING AND SCIENCE CONSULTANTS PROFESSOR, L. ROOFING, L. ROSSIGLE, L. SPANGLER, L.	JOB NO.: 46817 FILE: rdwnotes.dgn DATE: 11/06/06
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