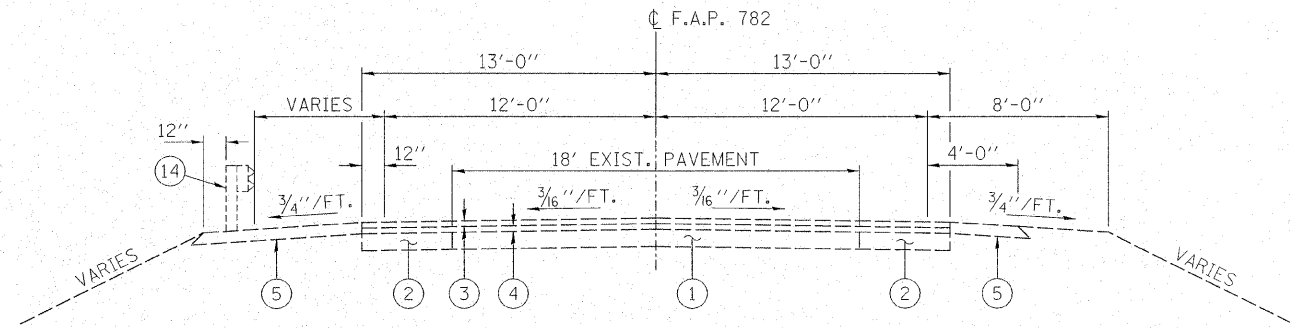


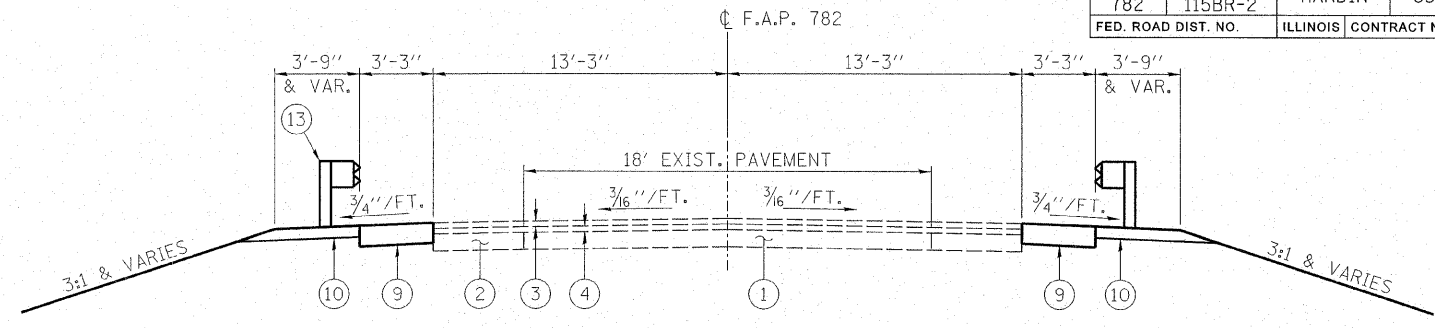
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 782	115BR-1 115BR-2	HARDIN	83	4
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 78026	



EXISTING TYPICAL CROSS SECTION

SEC. 115BR-1 / SN 035-0001
 STA. 924+09.00 TO STA. 927+02.00
 STA. 928+24.00 TO STA. 931+80.00

SEC. 115BR-2 / SN 035-0003
 STA. 1012+32.50 TO STA. 1015+21.00
 STA. 1016+23.00 TO STA. 1019+23.50

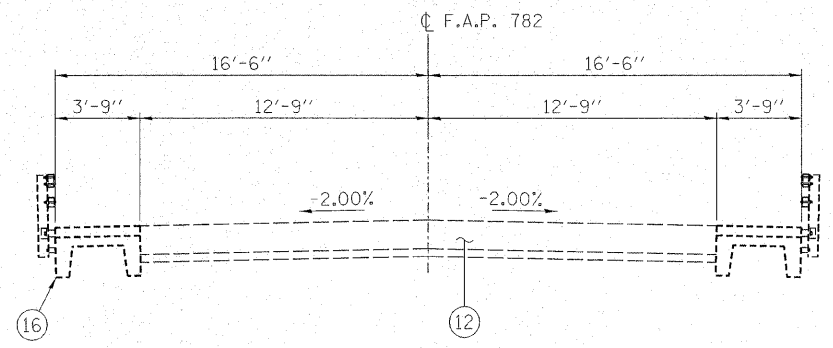


PROPOSED TYPICAL CROSS SECTION

SEC. 115BR-1 / SN 035-0001
 STA. 925+25.00 TO STA. 926+88.67
 STA. 928+41.33 TO STA. 930+00.00

SEC. 115BR-2 / SN 035-0003
 STA. 1013+45.00 TO STA. 1015+10.22
 STA. 1017+33.22 TO STA. 1018+00.00

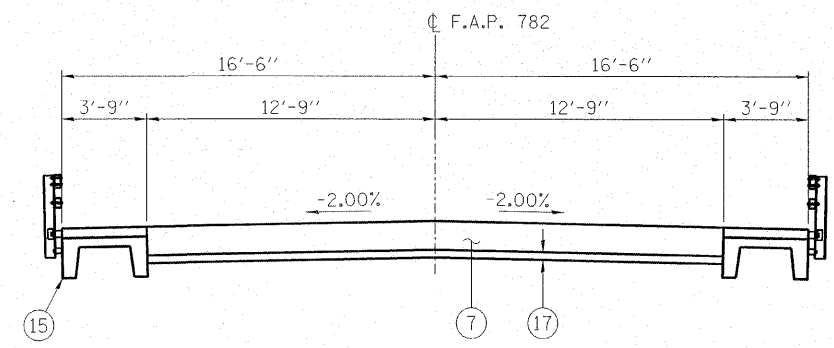
NOTE:
 AGGREGATE SHOULDERS ARE TO BE PLACED ONLY IN AREAS WHERE TRAFFIC BARRIER TERMINAL, TYPE 6A ARE TO BE INSTALLED.



EXISTING TYPICAL CROSS SECTION

SEC. 115BR-1 / SN 035-0001
 STA. 927+02.00 TO STA. 927+19.75
 STA. 928+06.46 TO STA. 928+24.00

SEC. 115BR-2 / SN 035-0003
 STA. 1015+21.00 TO STA. 1015+46.22
 STA. 1015+97.22 TO STA. 1016+23.00



PROPOSED TYPICAL CROSS SECTION

SEC. 115BR-1 / SN 035-0001
 STA. 926+88.67 TO STA. 926+94.67 (PCC CONNECTOR)
 STA. 926+94.67 TO STA. 927+24.67 (APPROACH SLAB)
 STA. 928+05.33 TO STA. 928+35.33 (APPROACH SLAB)
 STA. 928+35.33 TO STA. 928+41.33 (PCC CONNECTOR)

SEC. 115BR-2 / SN 035-0003
 STA. 1015+10.22 TO STA. 1015+16.22 (PCC CONNECTOR)
 STA. 1015+16.22 TO STA. 1015+46.22 (APPROACH SLAB)
 STA. 1016+97.22 TO STA. 1017+27.22 (APPROACH SLAB)
 STA. 1017+27.22 TO STA. 1017+33.22 (PCC CONNECTOR)

LEGEND

- ① EXIST CONCRETE PAVEMENT
- ② EXISTING BASE COURSE WIDENING 9"
- ③ EXISTING H.M.A. BINDER COURSE 1.5" MIN.
- ④ EXISTING H.M.A. SURFACE COURSE 1.5"
- ⑤ EXISTING AGGREGATE SHOULDERS TYPE A, 6"
- ⑥ EXISTING PCC BASE COURSE, 10"
- ⑦ BRIDGE APPROACH PAVEMENT
- ⑧ BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)
- ⑨ H.M.A. BASE COURSE WIDENING 11"
- ⑩ AGGREGATE SHOULDERS TYPE A 6"
- ⑪ TEMPORARY PAVEMENT MARKINGS
- ⑫ EXISTING BRIDGE APPROACH PAVEMENT
- ⑬ TRAFFIC BARRIER TERMINAL, TYPE 6A
- ⑭ EXISTING GUARDRAIL
- ⑮ PROPOSED PRECAST SLAB WITH CONCRETE WEARING SURFACE
- ⑯ EXISTING PRECAST SLAB WITH CONCRETE WEARING SURFACE
- ⑰ SUB-BASE GRANULAR MATERIAL TYPE A 4" (COST INCLUDED WITH BRIDGE APPROACH PAVEMENT)

PAVEMENT DESIGN (MECHANISTIC)

DESIGN PERIOD 5 YEARS LOADING HS 20-44 (80,000 LBS)

STRUCTURAL DESIGN TRAFFIC (SDT) = 2011 (1783.8)

PV = 1266 SU = 214 MU = 303

ROAD/STREET CLASSIFICATION: CLASS III

PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE

P = 50% S = 50% MU = 50%

TRAFFIC FACTOR ACTUAL TF 0.35 AC TYPE 64-22

MINIMUM TF 0.95

PG GRADE: BINDER = 64-22 SURFACE = 64-22

SUBGRADE SUPPORT RATING

SSR= POOR (STA. TO STA.)

SSR= POOR (STA. TO STA.)

MIXTURE REQUIREMENTS	
LOCATION(S):	IL RTE 1 WIDENING
MIXTURE USE(S):	HOT-MIX ASPHALT BASE COURSE
AC/PG:	PG 64-22
RAP % (MAX):	10%
DESIGN AIR VOIDS:	4% @ Ndes 90
MIXTURE COMPOSITION: (GRADATION MIXTURE):	IL 19.0
FRICTION AGGREGATE:	NONE
MIXTURE WEIGHTS:	112 LBS \ SY \ INCH THICKNESS

HAMPTON, LENZINI & RENWICK, INC.
 CIVIL & STRUCTURAL ENGINEERS
 LAND SURVEYORS

3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 (217) 546-3400

ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-98-0016-1 DATE: 01/18/08
 DESIGNED: L.F.S. CHECKED: S.W.M. DRAWN: D.T.M.

TYPICAL CROSS SECTIONS

IL. ROUTE 1
 F.A.P. ROUTE 782 / SECTION 115BR-1 & 115BR-2
 HARDIN COUNTY
 STATION 927+65 & STATION 1015+71.72
 STRUCTURE NO. 035-0001 & 035-0003