



- LEGEND**
- ① EXISTING HOT-MIX ASPHALT PAVEMENT
  - ② EXISTING 8" HOT-MIX ASPHALT SHOULDER
  - ③ EXISTING 8" AGGREGATE SHOULDER
  - ④ EXISTING STEEL PLATE BEAM GUARDRAIL
  - ⑤ SUB-BASE GRANULAR MATERIAL, TYPE B (4" THICKNESS)
  - ⑥ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (6 1/2" THICKNESS)
  - ⑦ HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70 (1 1/2" THICKNESS)
  - ⑧ TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)
  - ⑨ TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A
  - ⑩ TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 6
  - ⑪ AGGREGATE SHOULDERS, TYPE B
  - ⑫ BRIDGE APPROACH PAVEMENT
  - ⑬ HOT-MIX ASPHALT SHOULDERS (4" THICKNESS)
  - ⑭ HOT-MIX ASPHALT SURFACE REMOVAL, BUTT-JOINT
  - ⑮ STRIP REFLECTIVE CRACK CONTROL TREATMENT
  - ⑯ TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)
  - ⑰ STEEL PLATE BEAM GUARDRAIL, TYPE A
  - ⑱ TRAFFIC BARRIER TERMINAL, TYPE 6
  - ⑲ LEVELING BINDER (MACHINE METHOD), N70 (3 1/4" AND VARIES)
  - ⑳ TOPSOIL FURNISH AND PLACE, 4"
  - ㉑ BITUMINOUS MATERIALS (PRIME COAT)

**PROPOSED BRIDGE APPROACH PAVEMENT CROSS SECTION**

NOTE A: COST INCLUDED IN BRIDGE APPROACH PAVEMENT. SEE STANDARD 420401.

NOTE: SEE SUPERSTRUCTURE PLAN SHEET 44, FOR TYPICAL CROSS SECTION OF BRIDGE.

MIXTURE REQUIRMENTS			
LOCATION	AC TYPE	AIR VOIDS	MAX RAP %
HMA SURFACE COURSE, MIX "D", N70 (IL 9.5mm)	PG 64-22	4% @ 70 GYR.	10
HMA BINDER COURSE, IL-19.0, N70	PG 64-22 *	4% @ 70 GYR.	15
LEVELING BINDER (MACHINE METHOD), N70 (IL 9.5mm)	PG 64-22 *	4% @ 70 GYR.	10
HOT-MIX ASPHALT SHOULDERS, 4"	PG 64-22 *	2% @ 30 GYR.	50
TEMPORARY RAMP	PG 64-22 *	2% @ 30 GYR.	50

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

\* WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.

PAVEMENT DESIGN - TEMPORARY WIDENING	
DESIGN PERIOD: 2 YEARS	73280 LB. LOAD LIMIT
STRUCTURAL DESIGN TRAFFIC (SDT) =	17500 Year: 2008
PV = 16625	SU = 525
	MU = 350
ROAD/STREET CLASSIFICATION:	CLASS II ROAD
PERCENT OF S. D. T. IN DESIGN LANE	
P = 50	S = 50
	MU = 50
TRAFFIC FACTOR:	ACTUAL TF 0.16
SUBGRADE SUPPORT RATING = POOR	

PAVEMENT DESIGN-TEMPORARY WIDENING	
DESIGN PERIOD: 15 YEARS	80,000 LB. LOAD LIMIT
STRUCTURAL DESIGN TRAFFIC (SDT) =	20700 Year: 2016
PV = 19665	SU = 621
	MU = 414
ROAD/STREET CLASSIFICATION:	CLASS II
PERCENT OF S. D. T. IN DESIGN LANE	
P = 50	S = 50
	MU = 50
TRAFFIC FACTOR:	ACTUAL TF 1.74
SUBGRADE SUPPORT RATING = POOR	

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

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

ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-05-0050-1 DATE: 08/29/07  
DESIGNED: L.F.S. CHECKED: S.W.M. DRAWN: D.T.M.

**TYPICAL CROSS SECTIONS**  
SECTION 01-00268-00-BR  
F.A.S. 2111 / FABYAN PARKWAY  
KANE COUNTY