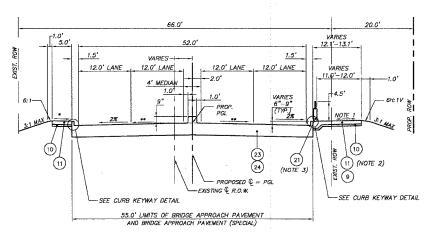


ILLINOIS AVENUE - PROPOSED TYPICAL SECTION

TA. 109+02 TO STA. 113+06.72 TA. 120+61.83 TO STA. 123+05



ILLINOIS AVENUE - PROPOSED TYPICAL SECTION

21225

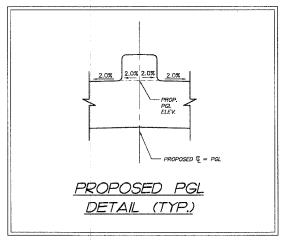
TA. 116+39.19 TO STA. 116+81.54
TA. 116+94.54 TO STA. 117+09.54
TA. 118+50.12 TO STA. 118+80.12

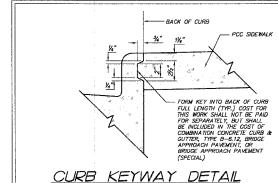
* VARIES 1.0% AT ROADWAY TO 1.6% AT END OF PROP. BRIDGES
** VARIES 1.5% AT END OF PROP. BRIDGES TO 2.0% AT ROADWAY

ILLINOIS AVENUE - PROPOSED TYPICAL SECTION

NOTES

- CROSS SLOPE OF SHARED USE PATH VARIES FROM 1.6% AT PROP. BRIDGES AND PEDESTRIAN TUNNEL (SLOPING AWAY FROM ROADWAY) TO 1% AT ROADWAY (SLOPING TOWARD ROADWAY)
- 2. STA. 118+50.12 TO 118+80.12 ONLY
- 3. STA. 113+06.72 TO STA. 113+36.72, STA. 116+39.19 TO 116+81.54, STA. 116+94.54 TO STA. 117+09.54, AND STA. 120+31.83 TO STA. 120+61.83 ONLY





BITUMINOUS MIXTURE REQUIREMENT ITEM DESCRIPTION AC TYPE VOIDS RAP % THICKNESS *BITUMINOUS CONCRETE SURFACE 4% @ 70 Gyr. PG 64-22 COURSE, SUPERPAVE, MIX D, N70 BITUMINOUS CONCRETE BINDER 4% @ 70 Gyr. PG 64-22 15% 2½" COURSE, SUPERPAVE, IL-19, N70 BITUMINOUS BASE COURSE, PG 58-22 2% @ 50 Gyr. SUPERPAVE 8 LEVELING BINDER (MACHINE VARIES 4% @ 70 Gyr. PG 64--22 10% METHOD) SUPERPAVE N70 (¾" TO 2¼") BITUMINOUS DRIVEWAY PAVEMENT BITUMINOUS CONCRETE SURFACE PG 64-22 4% 10 70 Gyr 10% COURSE, SUPERPAVE, MIX D, N70 CLASS D PATCHES, TYPE PG 64-22 4% @ 70 Gyr 12" 4% @ 70 Gyr. PG 64-22 12" CLASS D PATCHES, TYPE II 15%

THE UNIT WEIGHT USED TO CALCULATE BITUMINOUS SURFACE MIXTURE IS 112 LB/SY PER INCHTHICKNESS.

* TO BE UTILIZED FOR "TEMPORARY PAVEMENT" (2" THICK) AND "BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)"

"POROUS GRANULAR EMBANKMENT, SUBGRADE (PGES) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.03 AND THE UNDETROLT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSUITABLE AND/OR UNSTABLE MATERIAL IS NOT: ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO COMPENSATION WILL BE DUE THE CONTRACTOR."

ALL RECOMMENDED UNDERCUTS ARE FROM 6" OUTSIDE THE EDGES OF CURB AND GUTTER. DEPTHS WILL BE DETERMINED BY A LICENSED SOILS ENGINEER. LIMITS ARE FROM STA 109+02 TO 113+36.72, 116+39.19 TO 118+80.12, AND 120+31.83 TO 123+05.

	F.A.P. RTE.	SECTION .	SECTION COUNTY		TOTAL SHEETS	SHEET NO.			
	1517	03-00247-00-BR	KAN	ΙE	121	6			
STA. TO STA.									
F	ED. R	POAD DIST. NO. 1	ILLINOIS	HIGHWAY PROJECT					
	CONTRACT #: 83867								

LEGEND

1) EXISTING PAVEMENT (2 1/2" -6" BITUMINOUS SURFACE WITH 8"-11" CONCRETE BASE COURSE)

(2) EXISTING PCC SIDEWALK

(3) EXISTING CONCRETE CURB AND GUTTER

(4) EXISTING ABANDONED 10-DUCT ELECTRICAL PACKAGE (5" DIA. PVC)

(5) EXISTING 8" GAS MAIN (TO BE RELOCATED BY OTHERS)

(6) EXISTING ABANDONED 12" WATER MAIN

PROPOSED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX D, N70, 1.5"

(8) PROPOSED BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL--19, N70, 2.5"

PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 5" (SPECIAL) (SEE PCC SIDEWALK 5" (SPECIAL) AND CONCRETE BARRIER (SPECIAL) DETAIL SHEET)

(10) PROPOSED AGGREGATE BASE 4" (CA-6 CRUSHED) (INCLUDED IN COST OF PCC SIDEWALK)

PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 5"

PROPOSED BITUMINOUS BASE COURSE, SUPERPAVE, 8"

(13) PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, 4"

(14) PROPOSED TOPSOIL FURNISH AND PLACE, 6" & SODDING, SALT TOLERANT

(15) PROPOSED POROUS GRANULAR EMBANKMENT, SUBGRADE (12" DEPTH, SEE NOTE BELOW)

(16) PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12

(MINIMUM THICKNESS OF GUTTER FLAG SHALL BE 9". ADDITIONAL AGGREGATE UNDER GUTTER FLAG SHALL BE INCLUDED IN THE COST OF COMBINATION CONCRETE CURB & GUTTER TYPE B-6.12)

PROPOSED CONCRETE SUPERSTRUCTURE (CLASS BD CONCRETE) SEE BRIDGE PLANS

(18) BITUMINOUS SURFACE REMOVAL, 1½"

(19) PROPOSED CONCRETE MEDIAN, TYPE SB-9.12

(20) PAVEMENT REMOVA

21) PROPOSED CONCRETE BARRIER (SPECIAL) (SEE PCC SIDEWALK 5" (SPECIAL) AND CONCRETE BARRIER (SPECIAL) DETAIL SHEET)

(22) PROPOSED PORTLAND CEMENT CONCRETE PAVEMENT, 10" (JOINTED)

(23) PROPOSED BRIDGE APPROACH PAVEMENT

(24) PROPOSED BRIDGE APPROACH PAVEMENT (SPECIAL)

(25) BITUMINOUS CONCRETE REMOVAL (DECK)

(26) PROPOSED STRIP REFLECTIVE CRACK CONTROL TREATMENT

27) PROPOSED LEVELING BINDER (MACHINE METHOD) SUPERPAVE N70 (THICKNESS VARIES 3/4" TO 2 1/4")

(28) PROPOSED POROUS GRANULAR EMBANKMENT, SUBGRADE (12" DEPTH-SEE NOTE BELOW)

FLEXIBLE PAVEMENT STRUCTURAL DESIGN - ILLINOIS AVENUE DESIGN SPEED = 35 MPH

II.	DESIGN SPE	EU = 30 MFH		
STRUCTURAL	DESIGN TRAFFIC	DESIGN YEAR = 2017		
CLASSIFICATION:	CLASS I	ADT:	11,833	
DESIGN PERIOD:	20 YEARS	PV:	11,241	
TRAFFIC FACTOR:	1.5	SU:	355	
ILLINOIS BEARING	RATIO: 3	MU:	237	
STRUCTURAL DES	IGN #(Dt): 4.5			

BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX D, N70, 1.5" x .40 = 0.60 BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N70, 2.5" X .33 = 0.99 BITUMINOUSE BASE COURSE, SUPERPAVE, 8" X .33 = 2.64 SUB-BASE GRANULAR MATERIAL, TYPE B-4" X .11 = 0.44

SMITH ENGI CIVIL/STR

SMITH ENGINEERING CONSULTANTS, INC.
CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS
4500 PRIME PAIKWAY, SURVEYORS
1 MORE PRINCE TO THE CONSULTANT OF THE CONSULTANT

ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

ILLINOIS DEPARTMENT OF TRANSPORTATION

CITY OF AURORA

ILLINOIS AVENUE OVER THE FOX RIVER
PROPOSED TYPICAL SECTIONS

SCALE: "NTS"

DRAWN BY MPL CHECKED BY JLP

PLOT FILE: STANDARD VIEW: CE-06 COMP: FILE: 050181-6090.dwg