

# HOT-MIX ASPHALT MIXTURE REQUIREMENTS

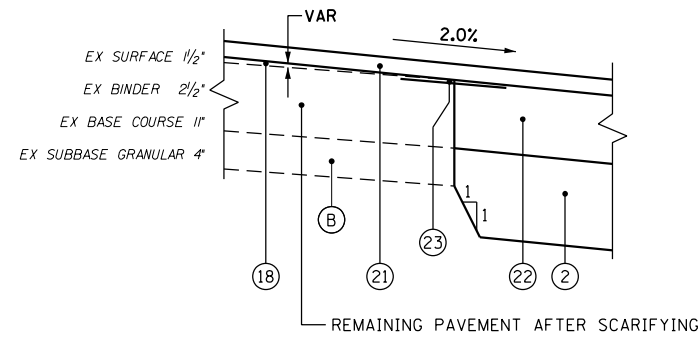
MIXTURE TYPE	AIR VOIDS
<b>HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 12 1/2" (CROSS STREETS)</b> HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5 mm); 2" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70; 10-1/2"	4% @ 70 Gyr. 4% @ 70 Gyr.
<b>HOT-MIX ASPHALT BASE COURSE (WIDTH GREATER THAN 6-FEET)</b> HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 (IL-19.0 mm) 11-1/4" (US 45) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (IL-19.0 mm) 10-1/2" (CROSS STREETS)	4% @ 90 Gyr. 4% @ 70 Gyr.
<b>HOT-MIX ASPHALT BASE COURSE WIDENING (WIDTH LESS THAN 6-FEET)</b> HOT-MIX ASPHALT SURFACE COURSE, IL-19.0, N90 (IL-19.0 mm) 11-1/4" (US 45) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (IL-19.0 mm) 10-1/2" (CROSS STREETS)	4% @ 90 Gyr. 4% @ 70 Gyr.
<b>PAVEMENT RESURFACING</b> POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL-9.5 mm); 2" (US 45) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5 mm); 2" (CROSS STREETS) LEVELING BINDER (MACHINE METHOD), N70 (IL-9.5 mm); 3/4" MINIMUM	4% @ 90 Gyr. 4% @ 70 Gyr. 4% @ 50 Gyr.
<b>TEMPORARY PAVEMENT (12")</b> HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 mm); 2" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 10" (IN 4 LIFTS)	4% @ 50 Gyr. 4% @ 50 Gyr.
<b>HOT-MIX ASPHALT SHOULDERS, 8"</b> HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5 mm); 2" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70; 6"	4% @ 70 Gyr. 4% @ 70 Gyr.
<b>HOT-MIX ASPHALT SHOULDERS, 6" (STABILIZATION AT GUARD RAILS)</b> HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 mm); 6"	4% @ 50 Gyr.
<b>CLASS D PATCHES 10"</b> HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 10" (IN 4 LIFTS)	4% @ 50 Gyr.
<b>MULTI-USE PATH</b> HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 mm); 2"	4% @ 50 Gyr.
<b>SIDEWALKS</b> HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 mm); 3"	4% @ 50 Gyr.
<b>PARKING LOT PAVEMENT RESTORATION</b> HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 mm); 1-1/2" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 2-1/4"	4% @ 50 Gyr. 4% @ 50 Gyr.
<b>DRIVEWAYS</b> HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 mm); 2" HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19.0 mm, N50); 6" (PRIVATE) HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19.0 mm, N50); 8" (COMMERCIAL)	4% @ 50 Gyr. 4% @ 50 Gyr. 4% @ 50 Gyr.

NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

NOTE 2: THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.

NOTE 3: THE CONTRACTOR SHALL HAVE THE OPTION OF INSTALLING 10" P.C.C. PAVEMENT OR 12" HOT-MIX ASPHALT PAVEMENT AS TEMPORARY PAVEMENT.

NOTE 4: PC CONCRETE TEMPORARY PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF ART. 1020 OF THE STANDARD SPECIFICATIONS



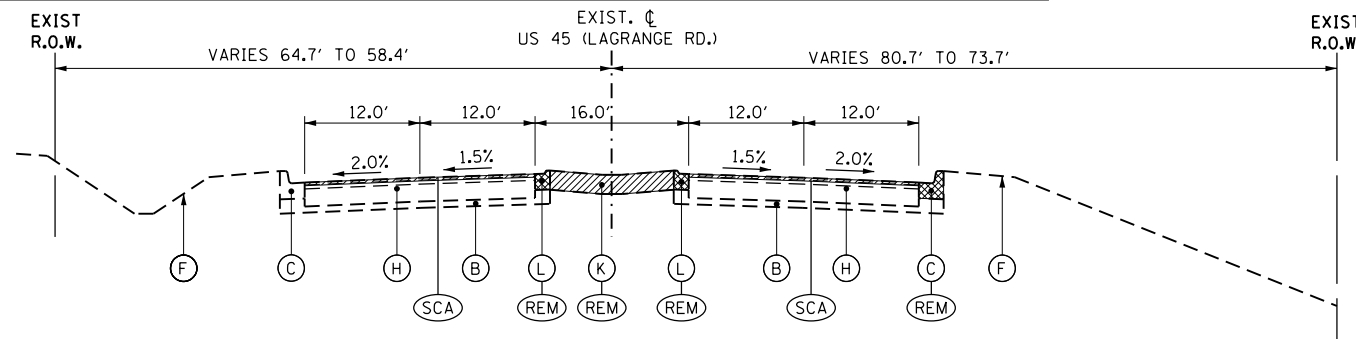
**DETAIL A**  
US 45

## EXISTING LEGEND

- (A) EXISTING CONCRETE PAVEMENT, 8" AND VARIES
- (B) EXISTING SUBBASE, 6" AND VARIES
- (C) EXISTING CURB AND GUTTER, TYPE B-6.24
- (D) EXISTING CONCRETE CURB AND GUTTER TYPE M-6.12
- (E) EXISTING SIDEWALK
- (F) PARKWAY (GRASS AREA)
- (G) EXISTING CONCRETE MEDIAN
- (H) EXISTING HOT-MIX ASPHALT PAVEMENT, VARIABLE DEPTH
- (I) EXISTING SUBBASE, VARIABLE DEPTH
- (J) EXISTING AGGREGATE SHOULDER
- (K) EXISTING STABILIZED MEDIAN SURFACE, 12"
- (L) EXISTING CONCRETE CURB AND GUTTER TYPE M-2.12

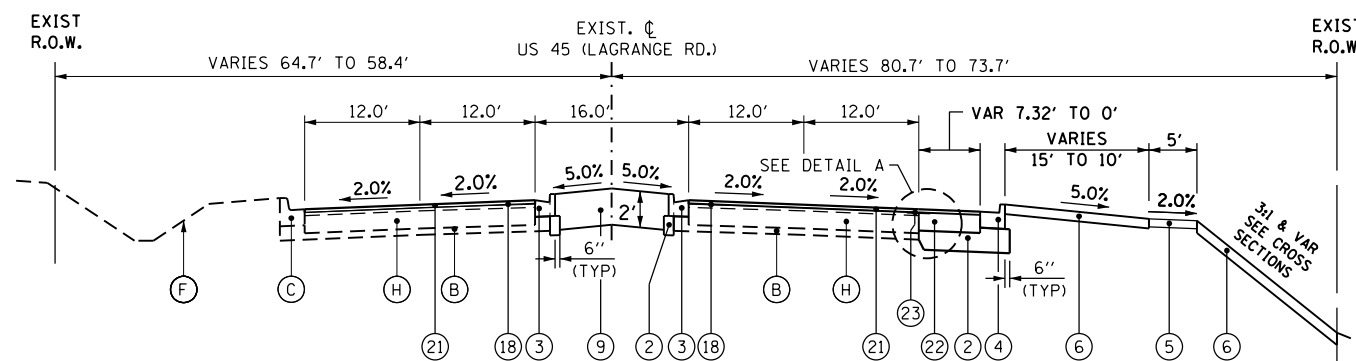
## PROPOSED LEGEND

- (1) PORTLAND CEMENT CONCRETE PAVEMENT, 10" (JOINTED)
- (2) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (3) COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.18 (MODIFIED)
- (4) COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.24
- (5) PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- (6) TOPSOIL AND SOD OR SEED (SALT TOLERANT), SEE LANDSCAPING PLANS
- (7) LONGITUDINAL CONSTRUCTION JOINT GROUTED IN PLACE, NO. 6 TIE BAR AT 24" LONG, DEFORMED (EPOXY COATED) AT 24" CTS. (INCLUDED IN THE COST OF THE PROPOSED PAVEMENT)
- (8) NO. 8 TIE BAR AT 24" LONG, DEFORMED (EPOXY COATED) AT 24" CTS. (INCLUDED IN THE COST OF THE PROPOSED CURB AND GUTTER)
- (9) LANDSCAPE MEDIAN, WIDTH VARIES (SEE NOTE AND LANDSCAPING PLANS FOR DETAILS)
- (10) CONCRETE MEDIAN, TYPE SB-6.18
- (11) HOT-MIX ASPHALT PAVEMENT, 11 1/2" (FULL DEPTH)  
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (2")  
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (10 1/2") (IN 4 LIFTS)
- (12) GEOTECHNICAL FABRIC
- (13) DRILL & GROUT NO. 8 TIE BARS AT 24" CTS (INCLUDED IN THE COST OF CONCRETE MEDIAN, TYPE SB-6.18 OR COMB. CONCRETE C&G TYPE B-6.18 (MOD.))
- (14) HOT-MIX ASPHALT SHOULDERS, 8" (IN 2 LIFTS)
- (15) SUBBASE GRANULAR MATERIAL, TYPE C
- (16) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (2")
- (17) AGGREGATE BASE COURSE, TYPE B 8"
- (18) LEVELING BINDER (MACHINE METHOD), N70 (3/4" MINIMUM)
- (19) COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.12
- (20) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (2")
- (21) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (2")
- (22) HOT-MIX ASPHALT BASE COURSE (WIDTH GREATER THAN 6') or  
HOT-MIX ASPHALT BASE COURSE WIDENING (WIDTH LESS THAN 6')  
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 (11 1/4") (IN 4 LIFTS) (US45)  
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (10 1/2") (IN 4 LIFTS) (SIDE STREETS)
- (23) STRIP REFLECTIVE CRACK CONTROL TREATMENT



**EXISTING TYPICAL SECTION - US ROUTE 45 (LAGRANGE ROAD)**

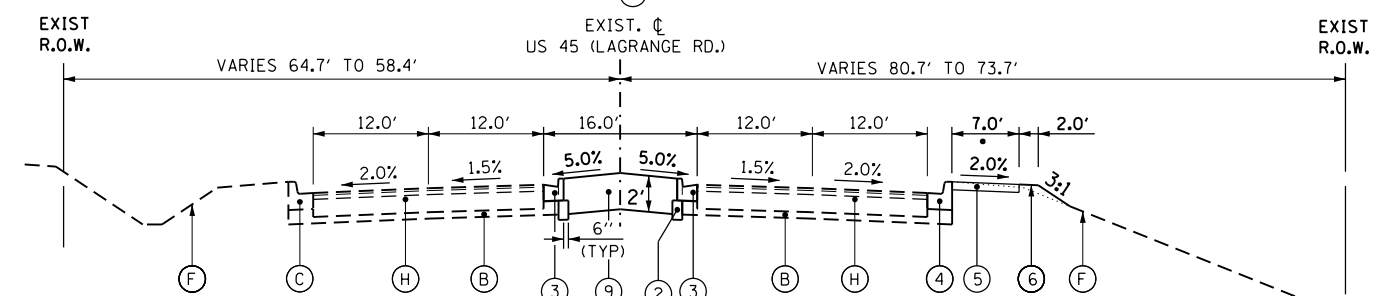
STA. 374+78.66 TO STA. 380+40.43



**PROPOSED TYPICAL SECTION - US ROUTE 45 (LAGRANGE ROAD)**

**RESURFACING AND WIDENING**

STA. 374+78.66 TO STA. 378+69.91



**PROPOSED TYPICAL SECTION - US ROUTE 45 (LAGRANGE ROAD)**

STA. 378+69.91 TO STA. 380+40.43

\* SIDEWALKS VARY FROM 5.0' WIDE TO 7.0' WIDE SEE PLANS FOR LOCATIONS

- (REM) REMOVAL ITEM
- (SCA) SCARIFY 2" OF EXISTING PAVEMENT THROUGH STA. 378+69.91

FILE NAME = D:\6062-SHT-TYPICAL04.dgn	USER NAME = Anthony.Plutz	DESIGNED - BA	REVISED -
		DRAWN - BA	REVISED -
		CHECKED -	REVISED -
SHT.PLAN	PLOT DATE = 3/12/2013	DATE - 03/13/13	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-5	COOK	778	34
<b>TS-04</b>			CONTRACT NO. 60M62	
ILLINOIS FED. AID PROJECT				