



P-23 ILLINOIS ROUTE 31  
STA. 50+00.00 TO STA. 57+51.37

**LEGEND**

**EXISTING**

- (A) - HMA BASE COURSE
- (B) - AGGREGATE SUBGRADE
- (C) - SUBBASE GRANULAR MATERIAL
- (D) - P.C.C. PAVEMENT

**PROPOSED**

- (1) - HMA SURFACE CSE., MIX "D", N70, 1 3/4"
- (2) - HMA BINDER CSE., IL-19.0, N70, 2 1/4"
- (3) - SUBBASE GRANULAR MATERIAL, TYPE B, 4"
- (4) - AGGREGATE SUBGRADE, 12"
- (5) - CONCRETE MEDIAN, TYPE SB-6.12
- (6) - AGGREGATE SUBGRADE, 8"
- (7) - COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- (8) - FURNISH AND PLACE TOPSOIL, 6"
- (9) - FURNISH AND PLACE TOPSOIL, 24"
- (10) - SEEDING, CLASS 2A (MODIFIED)
- (11) - HMA BASE COURSE, 7"
- (12) - HMA BASE COURSE, 8 1/2"
- (13) - HMA BASE COURSE, 9"
- (14) - HMA BASE COURSE, 9 1/2"
- (15) - SODDING, SALT TOLERANT
- (16) - STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- (17) - HMA SHOULDERS, 8"
- (18) - SEEDING, CLASS 1 (MODIFIED)
- (19) - P.C.C. PAVEMENT 10" (JOINTED)

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

MIXTURE TYPE	AIR VOIDS @ NDES	THICKNESS
PAVEMENT RESURFACING (RAKOW ROAD)		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	4% @ 90 GYR.	2"
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	4% @ 90 GYR.	2 1/4"
PAVEMENT RESURFACING (SIDE STREETS)		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	4% @ 70 GYR.	1 3/4"
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	4% @ 70 GYR.	2 1/4"
FULL DEPTH PAVEMENT (RAKOW ROAD)		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	4% @ 90 GYR.	2"
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	4% @ 90 GYR.	2 1/4"
HOT-MIX ASPHALT BASE COURSE	4% @ 90 GYR.	11 3/4"
FULL DEPTH PAVEMENT (SIDE STREETS)		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	4% @ 70 GYR.	1 3/4"
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	4% @ 70 GYR.	2 1/4"
HOT-MIX ASPHALT BASE COURSE	4% @ 70 GYR.	7" TO 9 1/2"

MIXTURE TYPE	AIR VOIDS @ NDES	THICKNESS
SHOULDERS		
HOT-MIX ASPHALT SHOULDERS	2% @ 30 GYR.	8"
COMMERCIAL ENTRANCES		
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL-9.5 mm)	4% @ 50 GYR.	2"
HOT-MIX ASPHALT BASE COURSE, 8" (IL-19 mm)	4% @ 50 GYR.	8"
PRIVATE ENTRANCES		
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL-9.5 mm)	4% @ 50 GYR.	2"
HOT-MIX ASPHALT BASE COURSE, 6" (IL-19 mm)	4% @ 50 GYR.	6"
BIKEPATHS		
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	4% @ 50 GYR.	2"
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	4% @ 50 GYR.	4"

**NOTES:**  
 1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.  
 2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.



USER NAME = mpine@rdwy.lisle	DESIGNED - MJP	REVISED -
PLOT CONFIG = PDF(Grey_Large).plt	DRAWN - TCK	REVISED -
PLOT SCALE = 1:8,33333	CHECKED - JAH	REVISED -
PLOT DATE = 8/23/2010	DATE - 8/2/2010	REVISED -



**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

**RAKOW ROAD FROM ACKMAN ROAD TO ILLINOIS ROUTE 31  
PINGREE ROAD AND IL RTE 31 PROPOSED TYPICAL SECTIONS**

SCALE: NA SHEET NO. TYP 13 OF 13 STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	05-00308-00-WR	MCHENRY	606	43
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 63398		