

**MIXTURE REQUIREMENT**

PAY ITEM	PERCENT AIR VOIDS @ NDES
HOT-MIX ASPHALT PAVEMENT RESURFACING EDGEWOOD DRIVE, IL RTE. 31 (STA. 87+35 TO STA. 97+35 AND STA. 218+00 TO STA. 221+96)	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL-9.5 mm) (2 3/4")	4% @ 90 GYR.
HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 8.25" HUNTINGTON DRIVE, SOUTH MAIN STREET, NORTH MAIN STREET, QUARRY ACCESS, RAILROAD STREET, LEGION DRIVE, FRONTAGE ROAD, ELMWOOD COURT, OAKWOOD COURT, LINDEN AVENUE	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5 mm) (2")	4% @ 70 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (6.25")	4% @ 70 GYR.
HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 14.25" IL RTE. 31 WIDENING (STA. 87+35 TO STA. 93+10 AND STA. 92+83 TO STA. 97+35), EDGEWOOD DRIVE WIDENING	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL-9.5 mm) (2")	4% @ 90 GYR.
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 (2.25")	4% @ 90 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 (10")	4% @ 90 GYR.
RESIDENTIAL HOT-MIX ASPHALT DRIVEWAY	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 mm) (2")	4% @ 50 GYR.
HOT-MIX ASPHALT BASE COURSE, IL-19.0, N50 (2.25")	4% @ 50 GYR.
STABILIZED HOT-MIX ASPHALT PATH MCCD PRAIRIE PATH	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 mm) (2")	4% @ 50 GYR.
CLASS D PATCHES, TYPE I, II, III, IV, 10"	
CLASS D PATCH (HMA BINDER IL-19mm) (10")	4% @ 70 GYR.
HOT-MIX ASPHALT SHOULDERS, 6" IL RTE. 31 & IL RTE. 62	
HOT-MIX ASPHALT SHOULDER (HMA BINDER IL-19.0) (6")	4% @ 50 GYR.
STABILIZED SUB-BASE (HOT-MIX ASPHALT) 4.5" IL RTE. 31 (STA. 115+44 TO STA. 162+62), RAMP A, RAMP B, RAMP C, RAMP D	
STABILIZED SUBBASE HMA (IL-19mm) (4.5")	3% @ 50 GYR.
TEMPORARY PAVEMENT, 9"	
TEMP PAVEMENT (HMA BINDER IL-19MM) (7")	4% @ 50 GYR.
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 mm) (2")	4% @ 50 GYR.
TEMPORARY SIDEWALK	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 mm) (2")	4% @ 50 GYR.

1. THE UNIT WEIGHT TO CALCULATE ALL HOT-MIX ASPHALT MIXTURES IS 112 LB/SY-IN.
2. FOR PERCENT OF RAP, SEE DISTRICT ONE SPECIAL PROVISIONS.
3. 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.
4. CONTRACTOR SHALL MILL BEFORE PATCHING.
5. IF USED, PC CONCRETE TEMPORARY PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING REQUIREMENTS OF ART. 1020 OF THE STANDARD SPECIFICATIONS. PAVEMENT THICKNESS SHALL BE 10".

STRUCTURAL PAVEMENT DESIGN INFORMATION BLOCK FOR  
IL ROUTE 31 - EDGEWOOD DRIVE TO JAYNE STREET  
IL ROUTE 31 - LINDEN AVENUE TO NORTH PROJECT LIMITS

STRUCTURAL TRAFFIC:	YEAR	2016
	PV = 32,222	SU = 657 MU = 1,971
ROAD/STREET CLASSIFICATION:	CLASS I	
	P = 32%	S = 45% M = 45%
TRAFFIC FACTOR:	ACTUAL TF = 9.37	AC TYPE = 20
	MINIMUM TF = 4.27	
AC GRADE:	BINDER = PG 70-22	SURFACE = PG 70-22
SUBGRADE SUPPORT RATING:	SSR = POOR	

STRUCTURAL PAVEMENT DESIGN INFORMATION BLOCK FOR  
IL ROUTE 31 - JAYNE STREET TO LINDEN AVENUE, AND RAMPS

STRUCTURAL TRAFFIC:	YEAR	2016
	PV = 32,222	SU = 657 MU = 1971
ROAD/STREET CLASSIFICATION:	CLASS I	
	P = 32%	S = 45% M = 45%
TRAFFIC FACTOR:	ACTUAL TF = 13.23	AC TYPE = N/A
	MINIMUM TF = 6.03	
AC GRADE:	BINDER = N/A	SURFACE = N/A
SUBGRADE SUPPORT RATING:	SSR = POOR	

STRUCTURAL PAVEMENT DESIGN INFORMATION BLOCK FOR LOCAL STREETS  
(HUNTINGTON DRIVE, LEGION DRIVE, SOUTH MAIN STREET, RAILROAD STREET,  
NORTH MAIN STREET, FRONTAGE ROAD, QUARRY ACCESS, ELMWOOD COURT,  
OAKWOOD COURT, LINDEN AVENUE)

STRUCTURAL TRAFFIC:	YEAR	2016
	PV = 6,664	SU = 136 MU = 0
ROAD/STREET CLASSIFICATION:	CLASS II	
	P = 50%	S = 50% M = 50%
TRAFFIC FACTOR:	ACTUAL TF = 0.16	AC TYPE = 20
	MINIMUM TF = 0.50	
AC GRADE:	BINDER = PG 64-22	SURFACE = PG 64-22
SUBGRADE SUPPORT RATING:	SSR = POOR	

STRUCTURAL PAVEMENT DESIGN INFORMATION BLOCK FOR  
ALCONQUIN ROAD

STRUCTURAL TRAFFIC:	YEAR	2016
	PV = 36,472	SU = 776 MU = 1,552
ROAD/STREET CLASSIFICATION:	CLASS I	
	P = 32%	S = 45% M = 45%
TRAFFIC FACTOR:	ACTUAL TF = 10.77	AC TYPE = N/A
	MINIMUM TF = 4.27	
AC GRADE:	BINDER = N/A	SURFACE = N/A
SUBGRADE SUPPORT RATING:	SSR = POOR	

**REMEDIAL TREATMENT AREAS**

ALIGNMENT	STATION	DEPTH 1	WIDTH	DESCRIPTION
IL RTE 31	100+00 TO 107+50	12"	FULL WIDTH NEW PAVEMENT	NOTE 4
IL RTE 31	107+50 TO 110+50	10"	FULL WIDTH NEW PAVEMENT	NOTE 2
IL RTE 31	110+50 TO 113+50	32"	FULL WIDTH NEW PAVEMENT	NOTE 2 OR 3
IL RTE 31	113+50 TO 116+50	12"	FULL WIDTH NEW PAVEMENT	NOTE 3
IL RTE 31	116+50 TO 119+50	72"	FULL WIDTH NEW PAVEMENT	NOTE 3
IL RTE 31	127+90 TO 131+40	1' - 5'	FULL WIDTH NEW EMBANKMENT	NOTE 6
IL RTE 31	152+00 TO 155+50	12"	FULL WIDTH NEW PAVEMENT	NOTE 4
IL RTE 31	174+80 TO 177+80	30"	FULL WIDTH NEW PAVEMENT	NOTE 2 OR 3
IL RTE 31	177+80 TO 180+00	12"	FULL WIDTH NEW PAVEMENT	NOTE 4
RAMP B	11+70 TO 15+50	14"-108"	FULL WIDTH NEW EMBANKMENT	NOTE 3 & 5
RAMP D	14+00 TO 16+50	18"	FULL WIDTH NEW PAVEMENT	NOTE 2
RAMP D	16+50 TO 18+00	12"	FULL WIDTH NEW PAVEMENT	NOTE 2
IL RTE 62	50+00 TO 59+50	12"	FULL WIDTH NEW PAVEMENT	NOTE 2
N. MAIN ST	50+00 TO 58+00	12"	FULL WIDTH NEW PAVEMENT	NOTE 4

- NOTE 1 DEPTH REFERS TO DEPTH BELOW DESIGN SUBGRADE ELEVATION  
 NOTE 2 UNDERCUT AND REPLACE WITH AGGREGATE SUBGRADE (PGES) UNDERDRAIN  
 NOTE 3 UNDERCUT AND REPLACE WITH SUITABLE EMBANKMENT FILL  
 NOTE 4 DISK DRY AND COMPACT UPPER 12" PER SECTION 301  
 NOTE 5 EMBANKMENT FILL REQUIRED TO MEET DESIGN SUBGRADE  
 NOTE 6 HIGH EMBANKMENT FILL REQUIRED, REMOVE ORGANIC LAYER PRIOR TO NEW FILL PLACEMENT

FILE NAME = ...\\D160F72-sht-typical-04.dgn	USER NAME = ctb	DESIGNED - GAB	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 2.0000' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 5/2/2012	DATE - 5/3/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED TYPICAL SECTIONS**

SCALE: SHEET NO. 4 OF 15 SHEETS STA. TO STA.

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	27
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				