



MIXTURE TABLE

	HMA SURFACE	HMA LEVEL BINDER	HMA SHOULDERS ***	HMA BASE CSE ***
PG GRADE	PG64-22	PG58-22	PG58-22	PG58-22
MAX % RAP ALLOWABLE**	15%	25%	25%	25%
DESIGN AIR Voids	4.0% @ N50	4.0% @ N50	3.0% @ N50	3.0% @ N50
MIXTURE COMPOSITION	IL 12.5 OR IL 9.5	IL 9.5	IL 19.0	IL 19.0
FRICTION AGGREGATE	MIXTURE C			
DENSITY TEST METHOD	NUCLEAR	SATISFACTION OF ENGINEER	CORES*	CORES*

* MATERIAL SHALL BE COMPACTED TO 93.0-97.4 PERCENT OF THE MAXIMUM THEORETICAL DENSITY, EXCEPT THAT WHEN PLACED AS FIRST LIFT ON AN UNIMPROVED SUBGRADE THE MINIMUM PERCENT COMPACTION SHALL BE 92.0 PERCENT. THE MAXIMUM THEORETICAL DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE AS SPECIFIED IN THE QC/QA SPECIFICATION.

** WHEN MORE THAN 20% RAP IS USED, A SOFTER ASPHALT BINDER (PG58-22) MAY BE REQUIRED AS DETERMINED BY THE ENGINEER.

*** THE AMOUNT OF ASPHALT BINDER USED SHALL BE INCREASED 0.5% MORE THAN THAT REQUIRED IN THE MIX DESIGN, EXCEPT WHEN THE HMA BINDER AND SURFACE COURSE MIXTURE OPTION IS USED.

LEGEND

- ① EXISTING HMA OVERLAY, ±5"
- ② EXISTING HMA BASE COURSE, 8"
- ③ EXISTING GRANULAR EMBANKMENT, VARIABLE DEPTH
- ④ EXISTING P.C.C. PAVEMENT (BROKEN)
- ⑤ EXISTING AGGREGATE SHOULDERS, VARIABLE DEPTH
- ⑥ EXISTING EARTH SHOULDERS
- ⑦ EXISTING GUARDRAIL
- ⑧ EXISTING PCC SHLD 7" (SEE NOTE 4)
- ⑨ HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 1/2"
- ⑩ LEVELING BINDER (MACHINE METHOD), N50, 3/4"
- ⑪ HOT-MIX ASPHALT SHOULDERS, 6 1/2"
- ⑫ SUB-BASE GRANULAR MATERIAL, TYPE A 4"
- ⑬ HOT-MIX ASPHALT BASE COURSE, 8" (SEE NOTE 1)
- ⑭ PROPOSED GUARDRAIL
- ⑮ VEGETATION SUSTAINING TOPSOIL, 4" (SEE NOTE 2)
- ⑯ AGGREGATE SHOULDERS, TYPE B, 6" (SEE NOTE 3)
- ⑰ AGGREGATE WEDGE SHOULDERS, TYPE B

NOTE 1: HMA BASE COURSE TO BE CONSTRUCTED PRE-STAGE 1. TO BE USED FOR PROPOSED SHOULDER.

NOTE 2: REUSE EXISTING TOPSOIL WHENEVER POSSIBLE. WHEN EXISTING QUANTITY OF ON-SITE TOPSOIL IS DEFICIENT, VEGETATION SUSTAINING TOPSOIL WILL BE HAULED FROM OFF SITE AND PAID FOR AS FURNISHED EXCAVATION

NOTE 3: CONSTRUCT AGGREGATE SHOULDERS TY B 6" AT LOCATIONS WHERE TEMPORARY PAVEMENT IS TO BE REMOVED. OTHERWISE CONSTRUCT 3' AGGREGATE WEDGE SHOULDERS TY B.

NOTE 4: PROPOSED SHOULDER QUANTITIES DO NOT TAKE INTO ACCOUNT THE EXISTING PCC SHOULDER. PCC SHOULDER TO BE USED AS PART OF THE PROPOSED CONSTRUCTION AS DIRECTED BY THE ENGINEER.

FILE NAME =	USER NAME = duncanbd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es\pw\work\p\dot\duncanbd\dms32420\d36833-sht-details.dgn		DRAWN -	REVISED -		41	(15BR-3)-1	LIVINGSTON	45	4				
PLOT SCALE = 50,0000' / IN.		CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.				CONTRACT NO. 66833				
PLOT DATE = Oct 08, 2009 - 03:29:13 PM		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								