

STRUCTURAL PAVEMENT DESIGN

STRUCTURAL DESIGN TRAFFIC: Year 2020
 PV = 21812 SU = 975 MU = 5876

ROAD/STREET CLASSIFICATION: Class = Interstate

PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
 P = 32% S = 45% M = 45%

TRAFFIC FACTOR: Actual TF = 26.700 AC Type = 20
 Minimum TF = 7.11

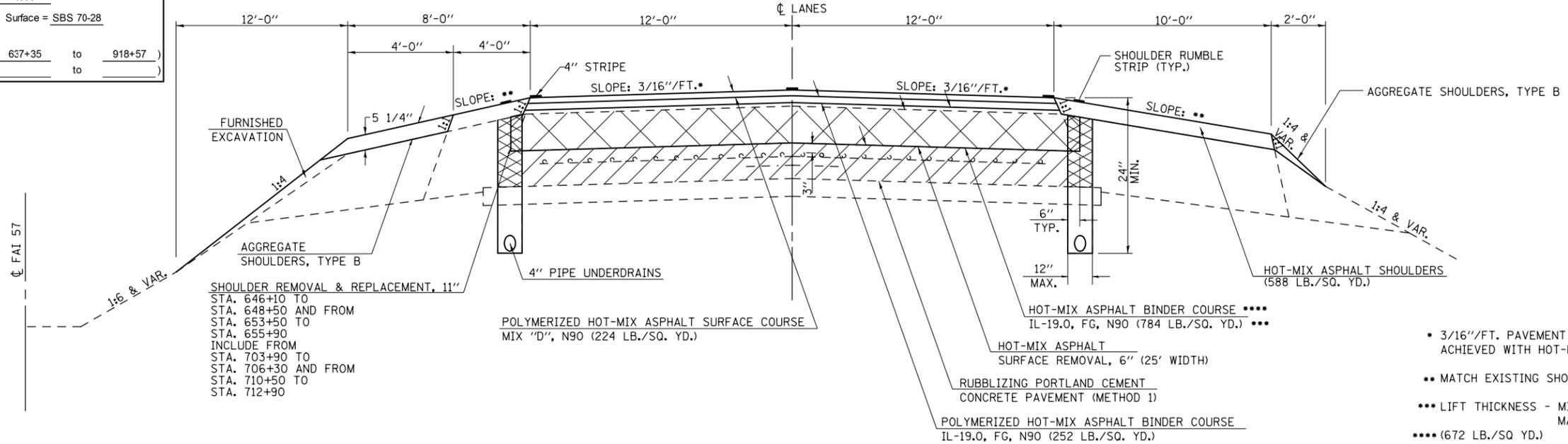
PG GRADE: Binder = 64-22 Surface = SBS 70-28

SUBGRADE SUPPORT RATING:
 SSR = Poor (Sta. 637+35 to 918+57)
 SSR = (Sta. to)

PROPOSED TYPICAL CROSS SECTIONS

FAI ROUTE 57
 NORTHBOUND LANES
 STATION 637+35 TO STATION 646+10
 STATION 655+90 TO STATION 703+90
 STATION 712+90 TO STATION 902+81

STATION EQUATION:
 STA. 764+96.99 BK =
 STA. 765+00.00 AH



- * 3/16"/FT. PAVEMENT CROSS SLOPE TO BE ACHIEVED WITH HOT-MIX ASPHALT BINDER COURSE
- ** MATCH EXISTING SHOULDER SLOPE UP TO 6% MAXIMUM
- *** LIFT THICKNESS - MINIMUM 2 1/4" MAXIMUM 4 1/2"
- **** (672 LB./SQ YD.) STA. 764+00 TO STA. 767+00 STA. 875+60 TO STA. 878+40

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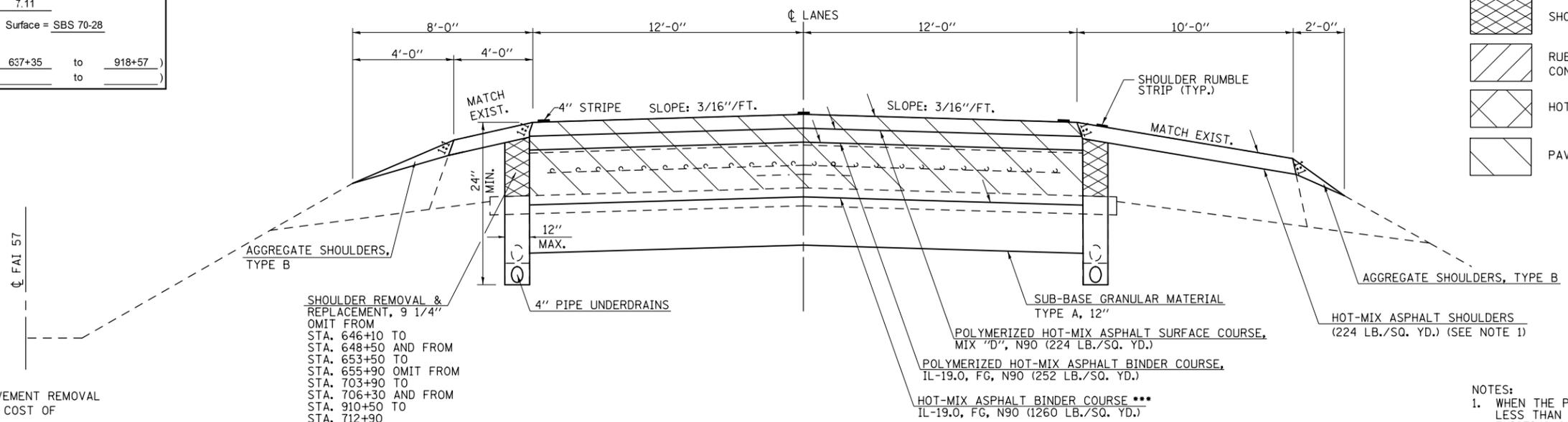
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PROPOSED TYPICAL CROSS SECTIONS

FAI ROUTE 57
 NORTHBOUND LANES
 STATION 646+10 TO STATION 655+90 - S.N. 010-0254
 STATION 703+90 TO STATION 712+90 - S.N. 010-0171



- SHOULDER REMOVAL & REPLACEMENT
- RUBBLIZATION OF PORTLAND CEMENT CONCRETE PAVEMENT (METHOD 1)
- HOT-MIX ASPHALT SURFACE REMOVAL
- PAVEMENT REMOVAL

NOTE:
 SAWCUTS REQUIRED FOR PAVEMENT REMOVAL SHALL BE INCLUDED IN THE COST OF PAVEMENT REMOVAL

SHOULDER REMOVAL & REPLACEMENT, 9 1/4" OMIT FROM STA. 646+10 TO STA. 648+50 AND FROM STA. 653+50 TO STA. 655+90 OMIT FROM STA. 703+90 TO STA. 706+30 AND FROM STA. 910+50 TO STA. 712+90

- NOTES:
1. WHEN THE PAVEMENT TRANSITION IS LESS THAN 2" IN THICKNESS MILL EXISTING SHOULDER TO PROVIDE FOR A MINIMUM 2" INLAY.
 2. SEE ALSO 'RESURFACING TRANSITION DETAILS'

FILE NAME =	USER NAME = dawsonkb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED TYPICAL CROSS SECTIONS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ei:\pw\work\p\dot\dawsonkb\0158448\0570716-sht-typical.dgn	DRAWN -	REVISED -	57			(10-34, 10-35)RS-2(NB)	CHAMPAIGN	53	14	
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 70716							
PLOT DATE = 11/15/2012	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
					SCALE:	SHEET NO. 1 OF 3 SHEETS		STA.	TO STA.	