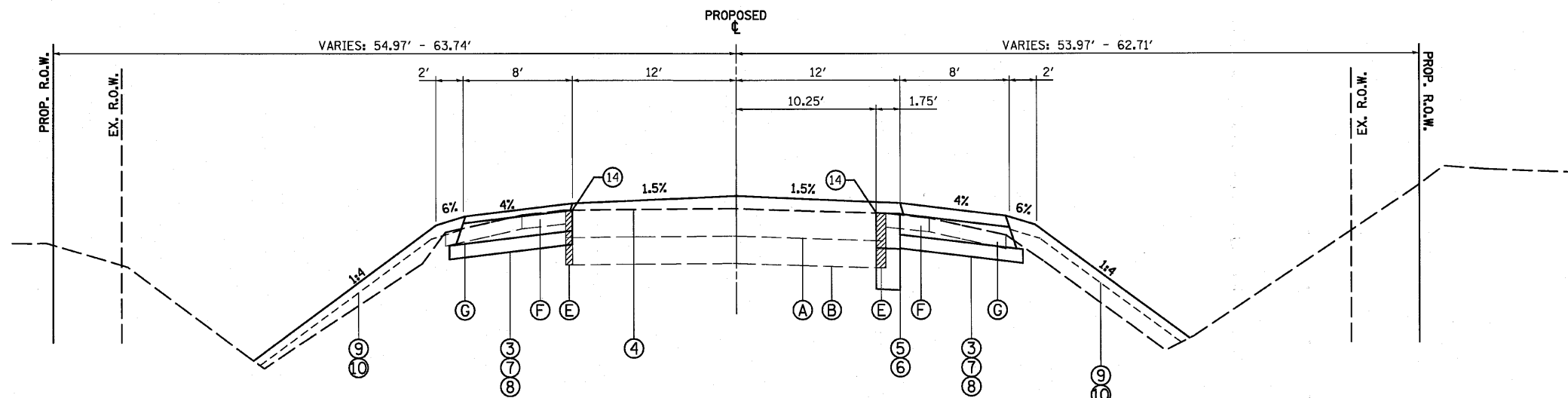
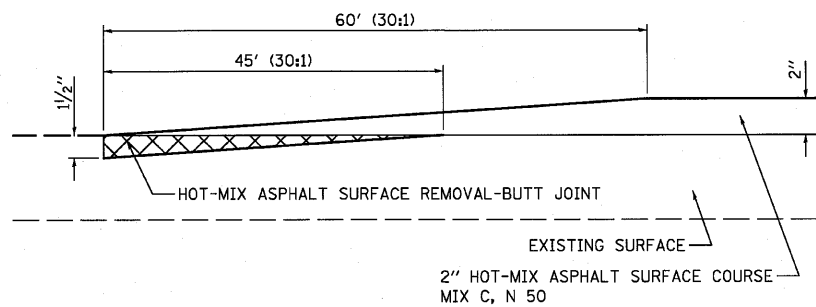


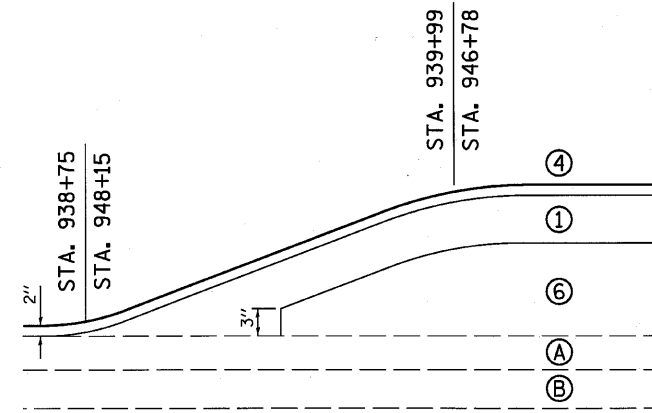
TYPICAL SECTIONS



ILLINOIS ROUTE 40
 STA. 936+40 TO STA. 938+75
 STA. 948+15 TO STA. 950+32



HMA SURFACE REMOVAL BUTT JOINT TYPICAL
 STA. 935+80 TO STA. 936+40
 STA. 950+32 TO STA. 950+92



PAVEMENT SECTION TRANSITION DETAIL

LEGEND, EXISTING

- (A) EXISTING HOT-MIX ASPHALT PAVEMENT (6"-8")
- (B) EXISTING PCC BASE (6" - 8")
- (C) EXISTING HMA SHOULDER
- (D) EXISTING AGGREGATE SHOULDER
- (E) EXISTING PAVEMENT STRUCTURE - TO BE REMOVED (44000100)
- (F) EXISTING HMA SHOULDER - TO BE REMOVED (44004250)
- (G) EXISTING AGGREGATE SHOULDER - TO BE REMOVED (20200100)

LEGEND, PROPOSED

- (1) 10-1/4" HMA BINDER COURSE, IL-19.0, N50 (40603080)
- (2) 1"-13 1/4 " HMA BINDER COURSE, IL-19.0, N50, (40603080)
- (3) 2" HMA SURFACE COURSE, MIX "C", N50, (40603310)
- (4) 2" HMA SURFACE COURSE, MIX "D", N50, (40603335)
- (5) HMA BASE COURSE WIDENING, 10 1/4 " (35600717)
- (6) SUB-BASE GRANULAR MATERIAL, TYPE A (31100100)
 CA-6 OR CA-10 (3" - TOP LAYER)
 CA-2 (9" - BOTTOM LAYER)
- (7) HOT-MIX ASPHALT SHOULDERS, 6" (48203021)
- (8) 4" AGGREGATE BASE COURSE, TYPE B (35101400)
- (9) TOPSOIL FURNISH AND PLACE, 4" (21101615)
- (10) SEEDING CLASS 2A OR 4 W/EROSION CONTROL BLANKET
- (11) STEEL PLATE BEAM GUARDRAIL, TYPE A (63000001 OR 63000003)
- (12) PAVEMENT BREAKING (44004300)
- (13) TEMPORARY PAVEMENT (SEE STAGING TYPICAL SECTIONS)
- (14) SAWCUT - FULL DEPTH (INCLUDED IN COST OF WORK ITEM)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE USE(S)	SURFACE	SHOULDER TOP LIFT	SHOULDER BOTTOM LIFT	HMA BINDER COURSE(S)	HMA BASE COURSE WIDENING	TEMP PAVEMENT (HMA OPTION)
PG:	PG 64-22	PG 58-22	PG 58-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0@N50	3.0@N50	2.0@N50	4.0@N50	4.0@N50	4.0@N50
MIXTURE COMPOSITION:	IL 9.5 OR 12.5	IL 9.5 OR 12.5	BAM OR IL 19	IL 19	IL 19	IL 19
FRICTION AGGREGATE	D	C	N/A	N/A	N/A	N/A
20 YEAR ESAL	1.2	N/A	N/A	N/A	N/A	N/A

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LB/SQ YD/IN.

STRUCTURAL PAVEMENT DESIGN

STRUCTURAL DESIGN TRAFFIC: Year 2017
 PV = 5120 SU = 330 MU = 150
 ROAD/STREET CLASSIFICATION: MINOR ARTERIAL
 PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
 P = 91 S = 6 M = 3
 TRAFFIC FACTOR: Actual TF = AC Type = PG 64-22
 Minimum TF = NA
 PG GRADE: Surface = PG 64-22 /58-22 Binder = PG 64-22
 SUBGRADE SUPPORT RATING:
 SSR = POOR

FILE NAME = P:\CIBEL WEST Projects\2009\1241008_M09_IL40_Civil\09\Sh\AD284854-14v-typical.dgn



USER NAME = *USER*	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 8/2/2010	CHECKED -	REVISED -
	DATE - 8/6/10	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

F.A. RTE. 646	SECTION 8BR-1	COUNTY WHITESIDE	TOTAL SHEETS 90	SHEET NO. 9
CONTRACT NO. 84854			FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT	
SCALE:	SHEET NO. 9 OF 90 SHEETS	STA. TO STA.		