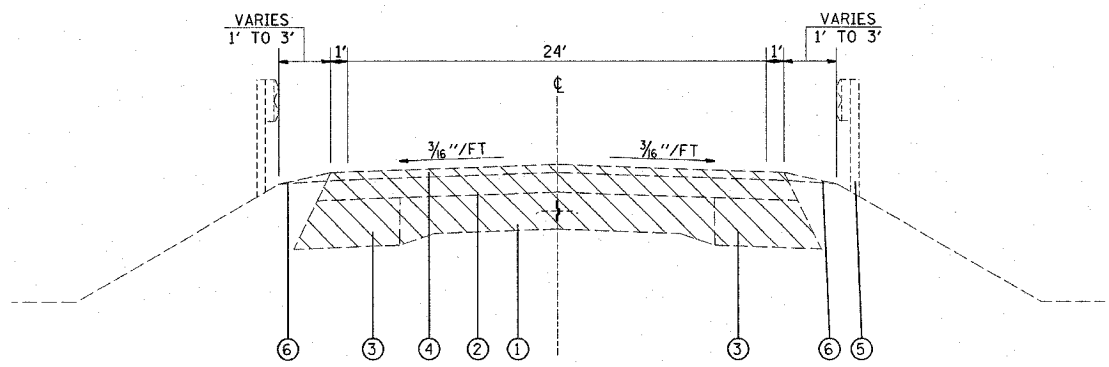
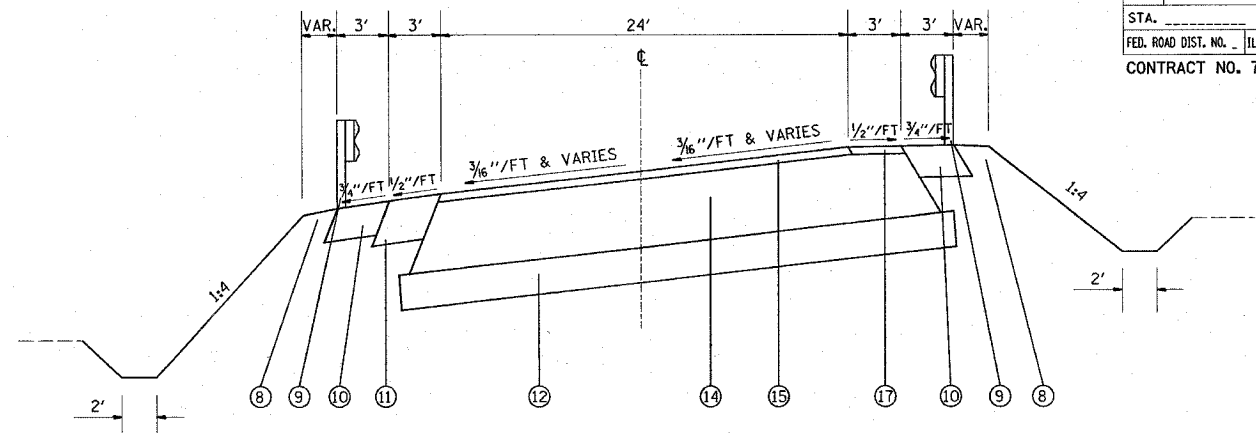


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
789	54BR-1	MADISON	62	5
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 76864				



EXISTING TYPICAL SECTION
STA. 273+80.00 TO STA. 289+68.00



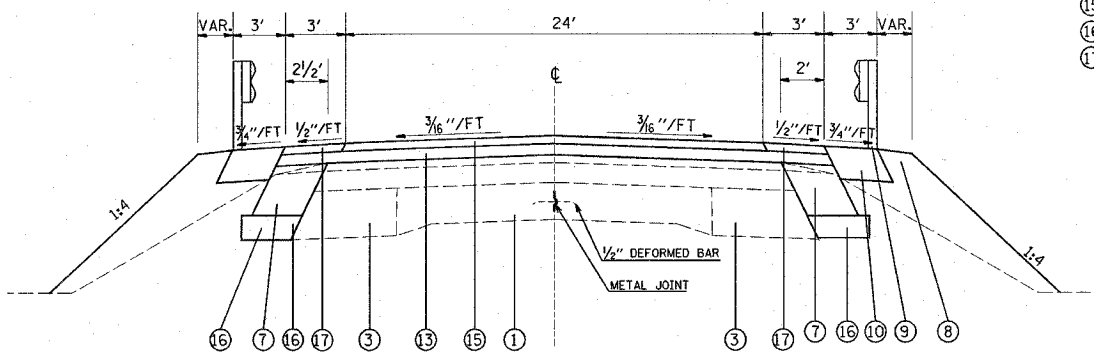
PROPOSED TYPICAL SECTION
STA. 282+70.00 TO STA. 288+67.30

LEGEND

- ① EXISTING PAVEMENT 9-7-9
- ② EXISTING BITUMINOUS BINDER 3 3/4"
- ③ EXISTING BITUMINOUS WIDENING 9"
- ④ EXISTING BITUMINOUS SURFACE COURSE 1 1/2"
- ⑤ EXISTING GUARDRAIL
- ⑥ EXISTING AGGREGATE SHOULDER
- ⑦ PROPOSED HOT-MIX ASPHALT BASE COURSE WIDENING 9"
- ⑧ PROPOSED EARTH SHOULDER
- ⑨ PROPOSED GUARDRAIL
- ⑩ PROPOSED AGGREGATE SHOULDER 6"
- ⑪ PROPOSED HOT-MIX ASPHALT SHOULDER 8"
- ⑫ LIME MODIFIED SOIL 12"
- ⑬ PROPOSED HOT-MIX ASPHALT BINDER COURSE (VARIES 0.75" TO 15")
- ⑭ PROPOSED HOT-MIX ASPHALT BINDER COURSE 13"
- ⑮ PROPOSED HOT-MIX ASPHALT SURFACE COURSE 1 1/2"
- ⑯ PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE A 4"
- ⑰ PROPOSED HOT-MIX ASPHALT SHOULDERS, 1 1/2"

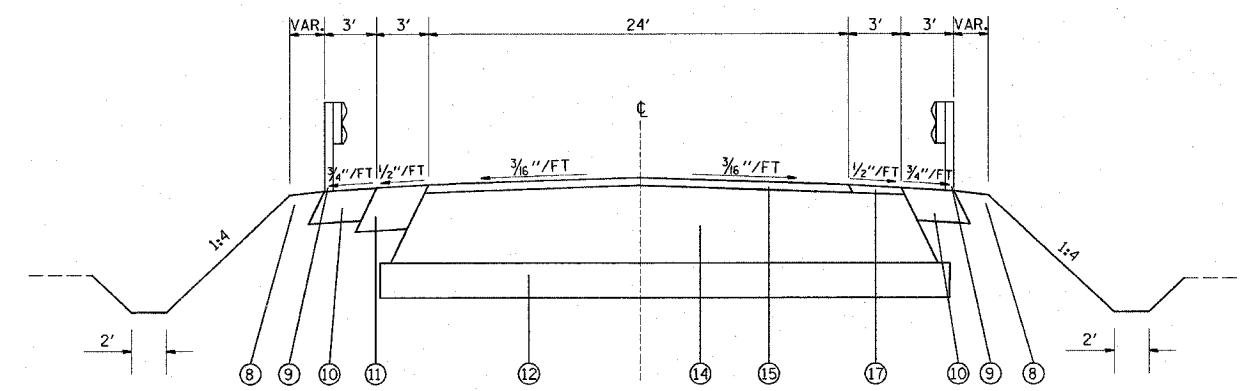
PAVEMENT DESIGN INFORMATION

STRUCTURAL DESIGN TRAFFIC: YEAR 2027
PV = 3549 SU = 257 MU = 94
ROAD/STREET CLASSIFICATION: CLASS II
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
P = 50 S = 50 M = 50
TRAFFIC FACTOR: ACTUAL TF = 0.65 AC TYPE = 20
MINIMUM TF = 3.81
PG GRADE: BINDER = 64-22 SURFACE = 64-22
SUBGRADE SUPPORT RATING: FAIR



PROPOSED TYPICAL SECTION
STA. 273+80.00 TO STA. 278+49.00

PAVEMENT REMOVAL
STA. 282+24.77 TO STA. 289+67.62



PROPOSED TYPICAL SECTION
STA. 288+76.30 TO STA. 289+67.62

MIXTURE REQUIREMENTS

MIXTURE USE	SURFACE	BINDER	WIDENING COURSE	INCIDENTAL SURF	SHOULDERS	TOP LIFT SHOULDERS
AC/PG	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 58-22	PG 58-22
RAP % (MAX)	10%	15%	15%	10%	30%	30%
DESIGN AIR VOIDS	4.0% @ Ndes= 70	4.0% @ Ndes= 70	4.0% @ Ndes= 70	4.0% @ Ndes= 70	2.0% @ Ndes=30	**2.0% @ Ndes=30
MIX COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 19.0	IL 19.0	IL 9.5		
FRICTION AGG	MIXTURE "C"	MIXTURE "B"	MIXTURE "B"	MIXTURE "C"	BAM	BAM

** TOP LIFT SHOULDERS - DESIGN THIS MIX AT 2.0% VOIDS AND ADD ASPHALT TO REDUCE VOIDS TO 1.5%.
PLAN QUANTITIES FOR BITUMINOUS CONCRETE SURFACE COURSE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LB/SQ YD/IN (59.8 KG/SQ M/25 MM THICKNESS).

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS
MIXTURE REQUIREMENTS
FAP ROUTE 789
SECTION 54BR-1
MADISON COUNTY
SCALE: VERT. HORIZ.
DATE: DRAWN BY: CHECKED BY:

PLOT DATE = 10/18/2006
FILE NAME = c:\projects\54br\1485\plan\p1485b.dgn
PLOT SCALE = 50.0000 / 1 IN.
REFERENCE = #REF#