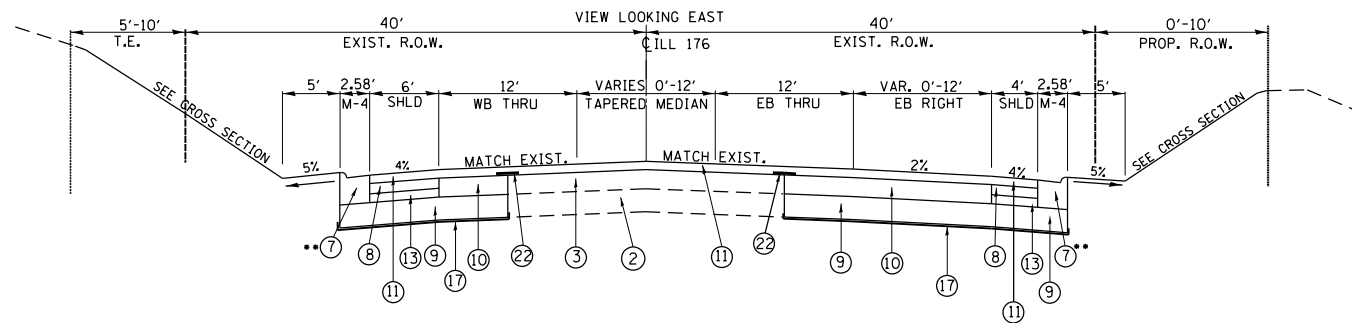


EXISTING TYPICAL SECTION
ILL 176-WEST LEG
STA. 247+80 TO STA. 250+25



PROPOSED TYPICAL SECTION
ILL 176-WEST LEG
STA. 247+80 TO STA. 250+25

*SEE CROSS SECTIONS FOR SLOPE

LEGEND:

- ① EXISTING AGGREGATE SHOULDER
 - ② EXISTING AGGREGATE SUBGRADE
 - ③ EXISTING HMA BINDER COURSE 18"- 19.5" (BASED ON PHASE I CORES)
 - ④ EXISTING HMA BINDER COURSE 6.5"-8"
 - ⑤ EXISTING PCC PAVEMENT 7.5"-8.5"
 - ⑥ EXISTING HMA BINDER 5.5"-6.75" (SMITH RD.)
 - ⑦ PROPOSED M-4.24 MOUNTABLE CURB & GUTTER (SEE PLAN FOR LOCATION)
 - ⑧ PROPOSED HMA SHOULDER (HMA BINDER IL-19 mm), 5 1/2"
 - ⑨ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
 - ⑩ PROPOSED HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL 19 mm, N90), 9"
 - ⑪ PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F" N90 (IL 9.5 mm), 2 1/2"
 - ⑫ PROPOSED HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm, N90), 4 1/2" (SMITH RD. FROM STA. 117+54 TO STA. 119+88)
 - ⑬ PROPOSED SUBBASE GRANULAR MATERIAL TYPE B, 3 1/2"
 - ⑭ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
 - ⑮ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"
 - ⑯ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 4"
 - ⑰ PROPOSED GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
 - ⑱ PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0 N90, 2 1/4"
 - ⑲ PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0 N90, 4"
 - ⑳ PROPOSED AGGREGATE SHOULDERS, TYPE B 6"
 - ㉑ PROPOSED HMA SHOULDER (HMA BINDER IL-19 mm), 4 1/2"
 - ㉒ PROPOSED STRIP REFLECTIVE CRACK CONTROL TREATMENT
- PROPOSED GUARDRAIL (NOT SHOWN-SEE PLAN AND CROSS SECTIONS)

NOTE: CONTRACTOR SHALL MILL BEFORE PATCHING.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOID @ N _{DES}
RESURFACING	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 mm); 2 1/2"	4% @ 90 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90; 2 1/4", 4"	4% @ 90 GYR
PAVEMENT WIDENING (ILL 176)	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 mm); 2 1/2"	4% @ 90 GYR
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL 19 mm, N90); 9"	4% @ 90 GYR
PAVEMENT WIDENING (SMITH RD.)	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 mm); 2 1/2"	4% @ 90 GYR
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL 19 mm, N90); 4 1/2"	4% @ 90 GYR
DRIVEWAYS	
HMA SURFACE COURSE, MIX D, N50 (IL 9.5 mm); 2"	4% @ 50 GYR
HMA BASE COURSE (HMA BINDER IL-19 mm); CE 8"	4% @ 50 GYR
SHOULDERS	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 mm); 2 1/2"	4% @ 90 GYR
HOT-MIX ASPHALT SHOULDER (HMA BINDER IL-19 mm), 5 1/2", 4 1/2"	4% @ 50 GYR
PATCHING	
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR

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

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. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

PROPOSED UNDERCUTS	
BORING & STATION & OFFSET	REMEDIAL TREATMENT
176-1 247+80 TO 252+00 RIGHT WIDENING	6" ASI
176-3 254+00 TO 256+50 RIGHT WIDENING	12" ASI

NOTE: ASI IS AGGREGATE SUBGRADE IMPROVEMENT

FILE NAME =	USER NAME = obreueh	DESIGNED -	REVISED -
et:\pwork\pwork\obreueh\dms99207\p114205-DESIGN.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/12/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILL 176 AT SMITH ROAD
TYPICAL SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	146N-2	MCHENRY	65	9
CONTRACT NO. 60K20				
ILLINOIS FED. AID PROJECT				