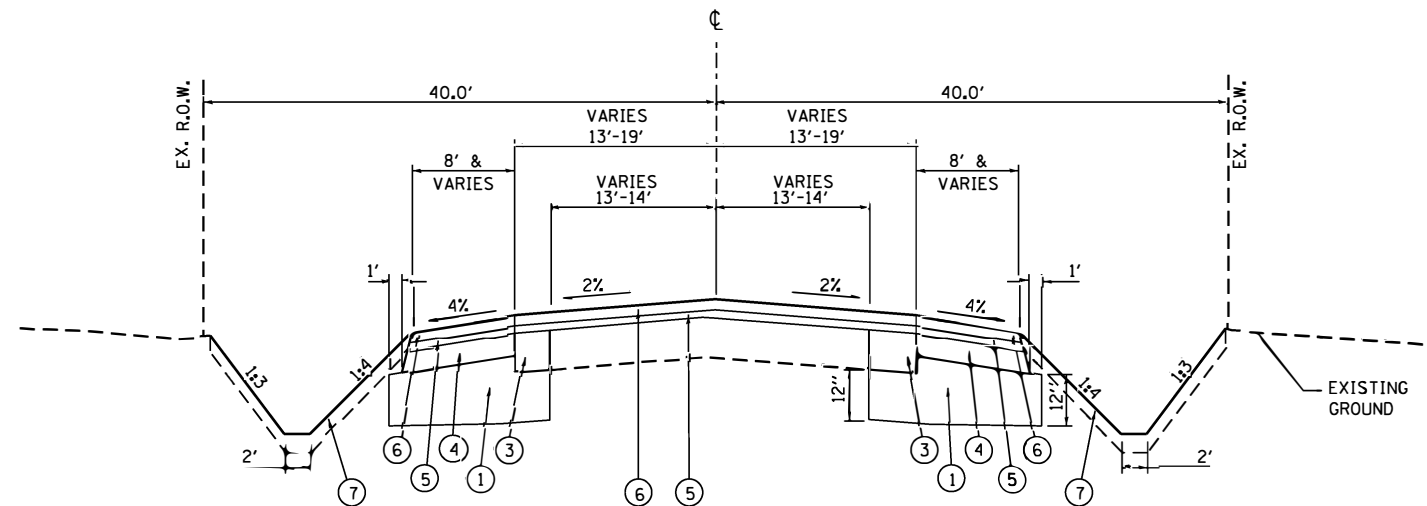


EXISTING TYPICAL SECTION

IL ROUTE 47

STA. 493+13 TO STA. 506+86

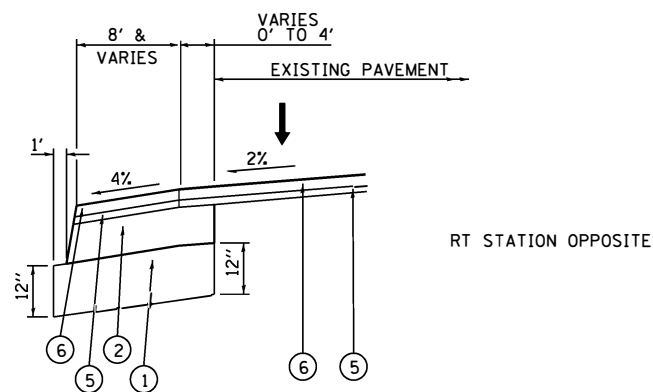


PROPOSED TYPICAL SECTION

IL ROUTE 47

STA. 493+13 TO STA. 506+86

(SEE SPECIAL SHOULDER DETAIL BELOW FOR SHOULDER EXCEPTION AT THE BEGINNING AND END OF IMPROVEMENT)



SPECIAL SHOULDER DETAIL

IL ROUTE 47

LT STA. 493+13 TO LT STA. 496+25
 RT STA. 493+13 TO RT STA. 495+35
 LT STA. 503+75 TO LT STA. 506+86
 RT STA. 504+45 TO RT STA. 506+86

EXISTING LEGEND

- (A) HMA PAVEMENT
- (B) CONCRETE BASE COURSE
- (C) AGGREGATE SHOULDER

PROPOSED LEGEND

- (1) AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (2) HOT-MIX ASPHALT BASE COURSE, 7/4"
- (3) HOT-MIX ASPHALT BASE COURSE WIDENING, 7/4"
- (4) HOT-MIX ASPHALT BASE COURSE, 5/2"
- (5) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- (6) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 1 3/4"
- (7) TOPSOIL, 6"

HMA MIXTURE REQUIREMENTS CHART

OPERATION	MIXTURE TYPE	AIR VOIDS (%) @ Ndes	QUALITY MANAGEMENT PROGRAM (QMP)
PAVEMENT RESURFACING	POLYMERIZED HMA SURFACE COURSE, MIX "E", N70 (IL 9.5 mm), 1 3/4" POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"	4% @ 70 GYR. 3.5% @ 50 GYR.	QC/OA
PAVEMENT WIDENING	POLYMERIZED HMA SURFACE COURSE, MIX "E", N70 (IL 9.5 mm), 1 3/4" POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4" HMA BASE COURSE, 7/4" (HMA BINDER IL-19.0) HMA BASE COURSE WIDENING, 7/4" (HMA BINDER IL-19.0),	4% @ 70 GYR. 3.5% @ 50 GYR. 4% @ 70 GYR. 4% @ 70 GYR.	QC/OA QC/OA QC/OA QC/OA
PAVEMENT WIDENING (MOT)	HMA BASE COURSE, 9 3/4" (HMA BINDER IL-19.0) HMA BASE COURSE WIDENING, 9 3/4" (HMA BINDER IL-19.0),	4% @ 70 GYR. 4% @ 70 GYR.	QC/OA QC/OA
SHOULDER PAVEMENT	POLYMERIZED HMA SURFACE COURSE, MIX "E", N70 (IL 9.5 mm), 1 3/4" POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4" HMA BASE COURSE, 5/2" (HMA BINDER IL-19.0)	4% @ 70 GYR. 3.5% @ 50 GYR. 4% @ 50 GYR.	QC/OA QC/OA QC/OA
PATCHING	CLASS D PATCH (HMA BINDER IL-19 mm)	4% @ 70 GYR.	QC/OA
PRIVATE ENTRANCE DRIVEWAY	HMA SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 2" HMA BASE COURSE (HMA BINDER IL-19.0), 6"	4% @ 50 GYR. 4% @ 50 GYR.	QC/OA QC/OA
COMMERCIAL ENTRANCE DRIVEWAY	HMA SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 2" HMA BASE COURSE (HMA BINDER IL-19.0), 8"	4% @ 50 GYR. 4% @ 50 GYR.	QC/OA QC/OA
RURAL FIELD ENTRANCE	HMA SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 2"	4% @ 50 GYR.	QC/OA
•TEMPORARY PAVEMENT	HMA SURFACE COURSE, MIX "D", N70 (IL 9.5 mm), 2" TEMP PAVEMENT (HMA BINDER IL-19.0), 6"	4% @ 70 GYR. 4% @ 70 GYR.	QC/OA QC/OA

QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/OA); QUALITY CONTROL FOR PERFORMANCE (QCP)

NOTES:

1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR 76-22"; AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
3. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.
4. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.
5. THE PCC TEMPORARY PAVEMENT OPTION SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF SECTION 1020 OF THE STANDARD SPECIFICATIONS; THICKNESS SHALL BE 8". TEMPORARY PCC PAVEMENT DOES NOT REQUIRE DOWEL BARS. ALL TEMPORARY PAVEMENT SHALL BE PROVIDED OVER A 4" SUBBASE GRANULAR MATERIAL, TYPE B.

FILE NAME = D:\2017\34-Sht-1\yp Section.dgn



USER NAME = jpong	DESIGNED - PP	REVISED -
	DRAWN - PP	REVISED -
PLOT SCALE = 15.0000' / 1"	CHECKED - TGM	REVISED -
PLOT DATE = 10/19/2017	DATE - 10/13/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ILLINOIS ROUTE 47 AT THAYER ROAD TYPICAL SECTIONS		F.A.P. RTE. 326	SECTION 104-N	COUNTY McHENRY	TOTAL SHEETS 106	SHEET NO. 13
SCALE:	SHEET OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT			