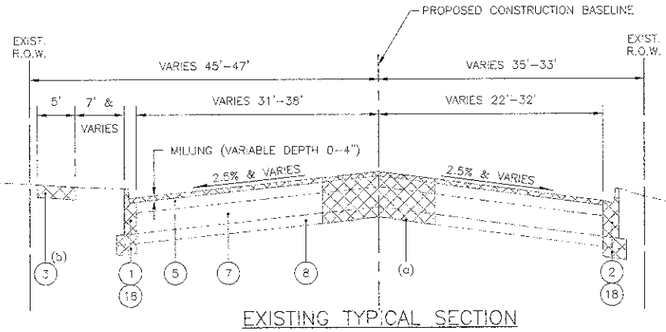
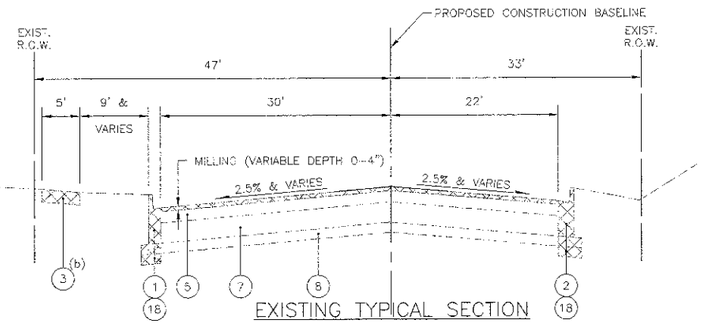


EXISTING TYPICAL SECTION

U.S. ROUTE 14
STA. 547+04 TO STA. 564+66

(a) U.S. ROUTE 14 (MEDIAN PAVEMENT REMOVAL)
STA. 552+21 TO STA. 554+91

(b) SEE PLAN AND PROFILE SHEETS FOR SIDEWALK REMOVAL LIMITS



EXISTING TYPICAL SECTION

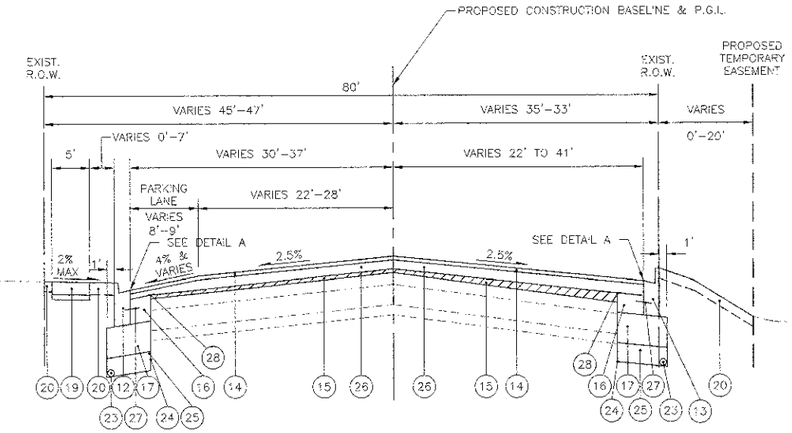
U.S. ROUTE 14
STA. 574+12 TO STA. 591+09

(b) SEE PLAN AND PROFILE SHEETS FOR SIDEWALK REMOVAL LIMITS

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

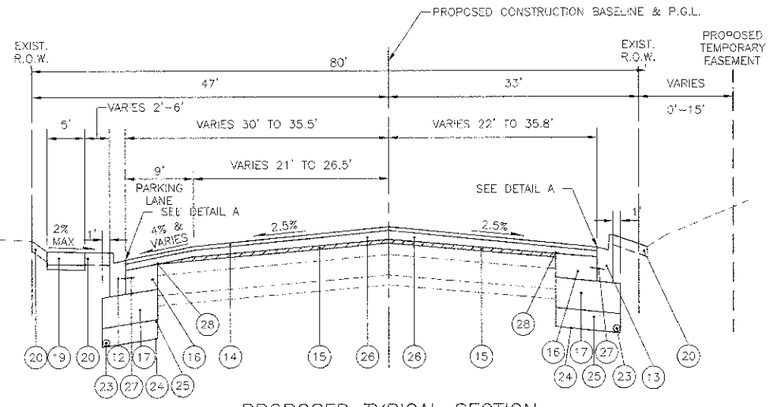
MIXTURE TYPE	AIR VOIDS @Ndes
PAVEMENT RESURFACING	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 mm), 1-3/4"	4% @ 90 Gyr.
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2-1/4"	4% @ 90 Gyr.
LEVELING BINDER (MACHINE METHOD), N70 (IL 9.5 mm)	4% @ 70 Gyr.
FULL DEPTH PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm), 2"	4% @ 70 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 6-1/4" (2 LIFTS)	4% @ 70 Gyr.
DRIVEWAYS	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm), 2"	4% @ 70 Gyr.
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19MM) PE - 6" (2 LIFTS) CE - 8" (2 LIFTS)	4% @ 70 Gyr.
BIKEPATH	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm), 3" (2 LIFTS)	4% @ 70 Gyr.
PATCHING (CONTRACTOR SHALL MILL BEFORE PATCHING)	
CLASS D PATCHES (HMA BINDER IL-19 mm) 14" (3 LIFTS)	4% @ 70 Gyr.
TEMPORARY PAVEMENT	
TEMP PAVEMENT (HMA BINDER IL-19 MM) 8" (2 LIFTS)	4% @ 70 Gyr.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS / SY / 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.



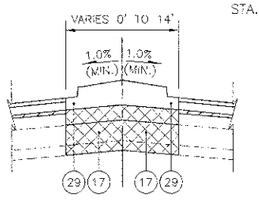
PROPOSED TYPICAL SECTION

U.S. ROUTE 14
STA. 547+04 TO STA. 564+66



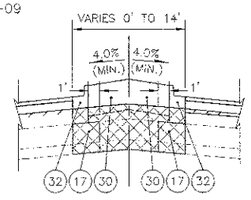
PROPOSED TYPICAL SECTION

U.S. ROUTE 14
STA. 574+12 TO STA. 591+09



PROPOSED TYPICAL SECTION

U.S. ROUTE 14 P.C.C. BARRIER MEDIAN
STA. 552+21 TO STA. 553+28
STA. 554+76 TO STA. 554+91



PROPOSED TYPICAL SECTION

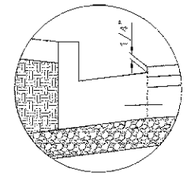
U.S. ROUTE 14 LANDSCAPED BARRIER MEDIAN
STA. 553+28 TO STA. 554+76

LEGEND

REMOVAL

* REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL AND SUBGRADE TREATMENT AREAS:

STATION LIMITS		ESTIMATED THICKNESS
FROM	TO	AGGREGATE SUBGRADE IMPROVEMENT
STA. 552+75	556+00	6 INCHES AND UNDERDRAIN
STA. 558+80	564+00	6 INCHES AND UNDERDRAIN
STA. 574+12	578+50	12 INCHES AND UNDERDRAIN
STA. 587+50	591+09	6 INCHES AND UNDERDRAIN



DETAIL A

LEGEND

1. EXIST. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
2. EXIST. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
3. EXIST. P.C.C. SIDEWALK
4. NUMBER NOT USED ON THIS SHEET
5. EXIST. BITUMINOUS PAVEMENT, 6" (±)
6. NUMBER NOT USED ON THIS SHEET
7. EXIST. P.C.C. BASE COURSE, 8" (±)
8. EXIST. AGGREGATE SUBBASE, 4" (±)
9. NUMBER NOT USED ON THIS SHEET
10. NUMBER NOT USED ON THIS SHEET
11. NUMBER NOT USED ON THIS SHEET
12. PROP. COMBINATION CONCRETE CURB & GUTTER, TYPE M-4.18
13. PROP. COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.18
14. PROP. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (1- ¾")
15. PROP. LEVELING BINDER (MACHINE METHOD), N70, VARIABLE DEPTH
16. PROP. P.C.C. BASE COURSE, 10"
17. PROP. AGGREGATE SUBGRADE IMPROVEMENT 12"
18. *REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
19. PROP. P.C.C. SIDEWALK 5" WITH AGGREGATE BASE COURSE, TYPE B, 2"
20. FURNISHING AND PLACING TOPSOIL, 4" & SODDING, SALT TOLERANT
21. NUMBER NOT USED ON THIS SHEET
22. NUMBER NOT USED ON THIS SHEET
23. PROP. PIPE UNDERDRAINS, 4"
24. PROP. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
25. PROP. AGGREGATE SUBGRADE IMPROVEMENT
26. PROP. POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 (2-¼")
27. DRILL AND GROUT 30" LONG NO. 5 TIE BARS (EPOXY COATED) @ 24" C-C (INCIDENTAL TO COMBINATION CONCRETE CURB AND GUTTER AND P.C.C. BASE COURSE, 10")
28. PROP. STRIP REFLECTIVE CRACK CONTROL TREATMENT
29. PROP. CONCRETE MEDIAN, TYPE S8-6.12
30. FURNISHING AND PLACING TOPSOIL, 12" & SODDING, SALT TOLERANT
31. NUMBER NOT USED ON THIS SHEET
32. PROP. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12

PAVEMENT DESIGN INFORMATION

U.S. ROUTE 14

ROADWAY CLASSIFICATION
CLASS I
STRUCTURAL DESIGN TRAFFIC
YEAR= 2019 PV= 22,200 VPD SU= 460 VPD MU= 230 VPD
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE
P= 32% S= 45% M= 45%
TRAFFIC FACTOR
ACTUAL TF= 1.57 MINIMUM TF= 4.27
SUBGRADE SUPPORT RATING
SSR= POOR
AC TYPE & PG GRADE
SEE BITUMINOUS MIXTURE REQUIREMENT TABLE

PLAN / PROFILE — SURVEYED / PLOTTED / DRAWN / ALIGNMENT CHECKED / ELEV. OF BEV CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE / BIM NOTED / STRUCTURE NOTATIONS CHKD

CIVILTECH

USER NAME = @USER@	DESIGNED - RTM	REVISED -	11/07/12
	DRAWN - JRR	REVISED -	
PLOT SCALE = @SCALE@	CHECKED - RTM	REVISED -	
PLOT DATE = @DATE@	DATE - 10/22/12	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SHEET NO. 1 OF 2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	02-00177-00 WR	COOK	142	9
PROJECT NO. M-8003(426)		CONTRACT NO. 63514		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		