F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	860	16
STA. 2200+00.00	TO STA. 2362+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (1516.1, 1717 & 1818) R-8

62694

POTENTIAL UNDERCUT

"POROUS GRANULAR EMBANKMENT, SUBGRADE" (PGES) HAS BEEN RECOMMENDED FOR USE AT LOCATIONS WITH SOILS THAT TEND TO BE UNSTABLE OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 303.13 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE MATERIALS ARE ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED WITH PGES AS DETERMINED BY THE GEOTECHNICAL ENGINEER. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE THE CONTRACTOR.

(SEE SCHEDULE OF QUANTITIES FOR LOCATIONS)

PROPOSED LEGEND

1. BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70, 1½"
2. POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50, 1½"
3. TEMPORARY PAVEMENT ***
4. CONCRETE MEDIAN SURFACE, 6" (SPECIAL)
5. PORTLAND CEMENT CONCRETE PAVEMENT, 11" (JOINTED)
6. PORTLAND CEMENT CONCRETE SHOULDERS, 11"
7. PORTLAND CEMENT CONCRETE SHOULDERS, 12"
8. STABILIZED SUB-BASE, 4"
9. COMBINATION CONCRETE CURB & GUTTER, TYPE M-4.12
10. SUB-BASE GRANULAR MATERIAL, TYPE B 24" (GRADATION PER 30-YEAR PAVEMENT SPECIFICATION)
11. COMBINATION CONCRETE CURB & GUTTER, TYPE B-V.12
12. COMBINATION CONCRETE CURB & GUTTER, TYPE M-2.12
13. COMBINATION CONCRETE CURB & GUTTER, TYPE M-4.24
14. COMBINATION CONCRETE CURB & GUTTER, TYPE M-4.48
15. SUB-BASE GRANULAR MATERIAL, TYPE B 6" (CA6 GRADATION)
16. PROPOSED RETAINING WALL (SEE STRUCTURAL PLANS)
17. CONCRETE BARRIER, DOUBLE FACE, 32 INCH HEIGHT; BARRIER BASE (SEE NOTE BELOW)
18. CONCRETE BARRIER TRANSITION (SEE NOTE BELOW)
19. STEEL PLATE BEAM GUARDRAIL, TYPE A
20. CONCRETE MEDIAN SURFACE, 5" (MODIFIED)
21. TOPSOIL FURNISH & PLACE, 4"; SEEDING, CLASS 2A; EROSION CONTROL BLANKET; & NUTRIENTS
22. PORTLAND CEMENT CONCRETE BASE COURSE, 10½"
23. PIPE UNDERDRAIN, 6" (SEE DETAILS)
24. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
25. PORTLAND CEMENT CONCRETE BASE COURSE, 9"
26. COMBINATION CONCRETE CURB & GUTTER, TYPE M-2.24
27. COMBINATION CONCRETE CURB & GUTTER, TYPE M-2.48
28. CONCRETE GUTTER (SEE RETAINING WALL PLANS)
29. CONCRETE CURB, TYPE B
30. COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12
31. CHAIN LINK FENCE, 6'
32. CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT; BARRIER BASE (SEE NOTE BELOW)
33. SUB-BASE GRANULAR MATERIAL, TYPE B 12" (CA6 GRADATION)
34. AGGREGATE FILL (INCLUDED IN THE COST OF "CONCRETE MEDIAN SURFACE, 6" (SPECIAL)" OR "CONCRETE MEDIAN SURFACE, 5" (MODIFIED)"
35. PORTLAND CEMENT CONCRETE PAVEMENT, 10" (JOINTED)
36. BITUMINOUS SHOULDERS, SUPERPAVE 6"
37. SLOPE WALL 4 INCH
38. TOPSOIL, FURNISH & PLACE, 12"; COMPOST, FURNISH & PLACE, 6"; SEEDING, CLASS 2A; EROSION CONTROL BLANKET; & NUTRIENTS
39. TOPSOIL, FURNISH & PLACE, 12"; COMPOST, FURNISH & PLACE, 6"; PLANTINGS & HERBICIDE (SEE LANDSCAPING NOTES)
40. FURNISH TEMPORARY CONCRETE BARRIER

*** – SEE TYPICAL SECTION PAVEMENT DETAILS

NOTE: A PAINT STRIPE SHALL BE APPLIED TO THE FACE OF BARRIER WALL ADJACENT TO ALL DRAINAGE STRUCTURES. THE STRIPE SHALL BE 4" WIDE BY 12" LONG, AND EXTEND VERTICALLY AT 90 DEGREES FROM THE TOP EDGE OF THE BARRIER. THE PAINT WILL BE SPECIFIED AS ORANGE PAINT. COST OF THE STRIPE IS TO BE INCLUDED IN THE COST OF THE CONCRETE BARRIER.

EXISTING LEGEND

ALL EXISTING PAVEMENT DEPTHS ARE FROM AS-BUILT PLANS AND ARE SUBJECT TO CHANGE

- (A) BIT CONC SURFACE COURSE, 1½"±
- (B) BIT CONC BINDER COURSE, 1½"±
- (C) SUB-BASE GRANULAR MATERIAL, 6"±
- (D) PCC BASE COURSE, 9"±
- (E) PCC PAVEMENT, 10"± (WITH PAVEMENT FABRIC, 80 LBS±/100 SF)
- (F) CRUSHED STONE, 5"±
- (G) CHAIN LINK FENCE
- (H) BIT CONC BINDER COURSE, 4¾"±
- (I) COMB CONC CURB & GUTTER
- (J) SIDEWALK
- (K) PCC SHOULDERS, 9"±
- (L) SUB-BASE GRANULAR MATERIAL, 4"±
- (M) CONCRETE BARRIER WALL
- (N) CRC PAVEMENT, 10"±
- (O) SUB-BASE GRANULAR MATERIAL, 12"±
- (P) STABILIZED SUB-BASE 4"±
- (Q) PIPE UNDERDRAIN, 6"±
- (R) BIT CONC BINDER COURSE, 2½"±
- (S) STABILIZED SHOULDER, 16"±

BITUMINOUS MIXTURE REQUIREMENT

ITEM	AC TYPE	VOIDS	RAP %
BIT. CONC. SURFACE COURSE, SUPERPAVE, MIX "D", N70	PG 64-22	4%@70 Gyr	10
POLY. LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50	SBS/SBR PG 76-28	2.5%@50 Gyr	0
*BIT. CONC. SURFACE COURSE, SUPERPAVE, MIX "D", N50	PG 64-22	4%@50 Gyr	15
*BIT. BASE COURSE, SUPERPAVE, N50	PG 58-22	2%@50 Gyr	50
**POLY. BIT. CONC. SURFACE COURSE, SUPERPAVE, MIX "F", N105	SBS 70-22	4%@105 Gyr	0
**BIT. CONC. BINDER COURSE, SUPERPAVE, IL-19, N105	PG 64-22	4%@105 Gyr	0
STABILIZED SUBBASE, 4"	PG 58-22	2%@50 Gyr	50
BITUMINOUS SHOULDERS, SUPERPAVE, 6"	PG 58-22	2%@30 Gyr	50

* - TEMPORARY PAVEMENT FOR RAMP TERMINALS
** - TEMPORARY PAVEMENT FOR MAINLINE

QUANTITIES FOR BITUMINOUS SUPERPAVE ITEMS WERE DETERMINED USING THE FOLLOWING RATES: 115 LB/SQ YD/IN FOR LEVELING BINDER, AND 112 LB/SQ YD/IN FOR SURFACE COURSE.

STRUCTURAL DESIGN TRAFFIC: YEAR = 2020
PV = 16,758 SU = 532 MU = 1,710
ROAD/STREET CLASSIFICATION: CLASS 1
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
P = 100 S = 100 M = 100
TRAFFIC FACTOR: ACTUAL TF = 38.10 AC TYPE = N/A
MINIMUM TF = 16.75
AC GRADE: BINDER = - SURFACE = -
SUBGRADE SUPPORT RATING:
SSR = 2.00

REVISIONS	
NAME	DATE
REVISED	05/06/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

EXISTING & PROPOSED TYPICAL SECTIONS LEGEND AND MIX DESIGN TABLES

SCALE: NONE DRAWN BY: MPG
DATE: MARCH 18, 2005 CHECKED BY: JPM

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