

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	12
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES (EARTHWORK)						
1	2	3	4	5	6	7
US 30 AT COTTAGE GROVE AVE.	EARTH EXCAVATION (CU YD)	UNSUITABLE MATERIAL (CU YD)	EMBANKMENT (CU YD)	ADJUSTMENT FOR SHRINKAGE (CU YD)	FURNISHED EXCAVATION (CU YD)	ROCK EXCAVATION (CU YD)
US 30 - STA. 207+00 TO STA. 215+00	215	494	257	183	-74	0
US 30 - STA. 215+00 TO STA. 219+78	188	0	0	160	160	0
COTTAGE GROVE AVE. - STA. 107+00 TO STA. 115+00	668	714	372	568	196	0
COTTAGE GROVE AVE. - STA. 115+00 TO STA. 127+00	2647	1808	624	2250	1626	450
TOTAL	3718	3016	1253	3161	1908	450
COLUMN 1: LOCATION FROM PLANS COLUMN 2: CUT QUANTITIES AFTER UNSUITABLE MATERIAL IS REMOVED COLUMN 3: MATERIAL THAT IS DETERMINED TO BE EITHER UNSTABLE OR UNSUITABLE FOR USE IN EMBANKMENT (TOP SOIL EXCAVATED AT 12" (300 MM) AVERAGE DEPTH) COLUMN 4: FILL QUANTITIES AFTER UNSUITABLE MATERIAL IS REMOVED		COLUMN 5: EARTH EXCAVATION THAT IS TO BE USED AS FILL MATERIAL IN THE EMBANKMENT, SHRINKAGE FACTOR WAS DETERMINED TO BE 15% COLUMN 6: COLUMN 5 - COLUMN 4, POSITIVE QUANTITY= EXTRA EXCAVATION, NEGATIVE QUANTITY= FURNISHED EXCAVATION NEEDED COLUMN 7: SEE SOILS PROFILE				

NOTES:

1. THE TOP 12" OF TOPSOIL AND EXIST. AGGREGATE SHOULDERS ARE TO BE REMOVED AND PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL.
2. POROUS GRANULAR EMBANKMENT, SUBGRADE (PGES) TO BE PLACED ON COTTAGE GROVE AVE. FROM STA. 118+50 TO STA. 121+00 AT A THICKNESS OF 12 INCHES FOR THE ENTIRE WEST WIDENING WIDTH. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES PLACEMENT SHOULD BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY A QUALIFIED SOILS INSPECTOR.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

	MIXTURE USE	AC TYPE	AIR VOIDS (%)
ROADWAY	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 MM), 1 3/4"	SBS/SBR PG 70-22	4% @ 90 GYR
	LEVELING BINDER, (MM), IL-9.5, N70, 3/4", 1 3/4"	PG 64-22 *	4% @ 50 GYR
	POLYMERIZED LEVELING BINDER, (MM) IL-4.75, N50, 3/4"	SBS/SBR PG 76-28/-22	4% @ 50 GYR
DRIVEWAYS C.E. & P.E	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL 9.5 MM), 2"	PG 64-22	4% @ 50 GYR
	HOT-MIX ASPHALT BASE COURSE, (BINDER IL-19.0 MM), 6" & 8"	PG 64-22 *	4% @ 50 GYR
SHOULDERS	HOT-MIX ASPHALT SHOULDERS, 8"	PG 64-22 *	2% @ 30 GYR
PATCHES	CLASS D PATCHES, (BINDER IL-19.0 MM), 10"	PG 64-22 *	4% @ 70 GYR
	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES, (BINDER IL-19.0 MM)	PG 64-22 *	4% @ 70 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN.

\* WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22

HMA MIX "F" IS USED BECAUSE INTERSECTION IS A HIGH-STRESS LOCATION

CLASS D PATCHES TO BE PLACED ON US 30 AND CLASS C PATCHES TO BE PLACED ON COTTAGE GROVE AVE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**US 30 AT COTTAGE GROVE AVE.  
SCHEDULE OF QUANTITIES (EARTHWORK)  
AND HMA MIXTURE CHART**

SCALE: VERT.  
DATE:           HORIZ.

DRAWN BY  
CHECKED BY

REV. 1