A.P. TE.	SECTION		COUNTY	TOTAL SHEETS	SHEET				
53	(12&13)WRS-	-3	WILL	1235	54				
TA.		TO	STA.						
FED. R	OAD DIST. NO.	ILLINOIS	FED. AID PROJECT						

EARTHWORK SCHEDULE

		F.457	LEVOANATION		TABASS	TI FYOU				G. 15															= = 145 :									WORK BALA		E (T)
LOCATION		EARTH EXCAVATION			TOPSOIL EXCAVATION			EMBANKMENT			UNDERCUT		PGES				STRUCTURE EXCAVATION				ADJUSTED OR SHRINKAGE					OR SHORTAGE (-)										
			CU YD			CU YD				CU	YD				C	U YD				CU YD				C	U YD					U YD_				cn		
STA	STA	PSTG 1 STG	1 STG 2 STG 3	STG 4 PS	TG 1 STG	1 STG 2 S	STG 3 S	TG 4 PS	STG 1	STG 1 ST	G 2 S	TG 3 ST	G 4 PST	G 1 ST	FG 1 S	STG 2 STG 3	STG 4	PSTG 1	STG 1	STG 2	STG 3 S	TG 4 PS	STG 1 S	STG 1 S	STG 2	STG 3 S	TG 4 PST	G 1 ST	G 1 S	TG 2	STG 3	STG 4	PSTG 1	STG 1 ST	G 2 STG	3 STG
CEDAR																																				
401+42					16				0				(0				0					0				1	7					17			
402+00	403+00	56			37				2	.			(0				0					0				4	8					46			
403+00	404+00	46			31				21				(0				0					0				3	9					18			
404+00					44				21				(0				0					0				3						15			
405+00	406+00	41			32				4				(0	-		1	0					0				3	4					31			
406+00	407+00	41			16				4				(0				0					0				3	5					31			
407+00	408+00	50			19				9				(0				0					0				4	3					34			
408+00	409+00	46			29				16					5			1	0					0				3	9					23			
409+00	410+00	21			28				25				(5				0					0				1	8					7			
410+00	411+00	31			40				32				(0				0					0				2	7					-5			
411+00	412+00	63			45				23					5			†	0					0				5	3					30			
412+00	413+00	68			37				18				(2			1	0					0				. 5	8					40			
413+00	414+00	63			42				18					5			 	0					0				5	3					35			
414+00	415+00	55			39				16			-		0				0					0				4						30			
415+00	416+00	46			29				16					0			1	0					0				3						24			
416+00	417+00	48			22				9					0				0					0				4	0					31			
417+00	418+00	41			36				27					2				0					0				3						7			
418+00	419+00	36			40				34				(5			 	0					0				3			-			-4			
419+00	420+00	42			45				37					0				0					0				3						-2			
420+00		1			2				1					2				0					0										0			
									-								 	 																		
						1								_			+	 																		
																	+																			
				-													 						-													
						+											+	-												\rightarrow						
OTALS =		19484 35574	57430 31179	4934 13	856 44822	11275	4415	430	5328 7	79609 21	644 1	1301 1	010	2 2	E 4 7	3541 1240	10	2	7207	2047	1249	0	0			0	0 160	62 30	230 41	0016	26502	1101	11234	-49371 27	172 1511	8 128

A SHRINKAGE FACTOR OF 15% WAS USED FOR EARTH EXCAVATION ADJUSTMENT

EARTHWORK SUMMARY

	PRE-STAGE	STAGE 1	STAGE 2	STAGE 3	STAGE 4	TOTAL
EARTH EXCAVATION	19484	35574	57430	31179	4934	148602
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	13858	47369	14816	5664	449	82156
STRUCTURE EXCAVATION	0	0	0	0	0	0*
POROUS GRANULAR EMBANKMENT SUBGRADE	2	3207	3943	1216	0	8402
FURNISHED EXCAVATION	0	49371	0	0	0	49371

* SEE STRUCTURAL PLANS FOR STRUCTURE EXCAVATION QUANTIES.

GEOTECHNICAL NOTES

THE GEOTECHNICAL REPORT HAS MADE THE FOLLOWING RECOMMENDATIONS:

LOCATION (US 30)	UNDERCUT DEPTH	REM & DISP UNS MATL	POROUS GRAN EMB SUBGR	GEOTECH FAB F/GR STAB
		CU YD .	CU YD	SQ YD
ENTIRE SEGMENT - DISKING OR TILLING, DRYING A WITHIN THE TOP 24" OF THE PROPOSED SUBGRADE	ND RE-COMI	PACTING OF HIG	CHLY MOIST (>	24%) SOILS
STA 137+00 TO STA 144+50 - FULL WIDTH	12"	1890.7	1953.0	-
STA 186+50 TO STA 189+50 - FULL WIDTH	12"	812.2	812.6	-
STA 198+50 TO STA 200+75 - 16' LT TO 40' LT	24"	295.6	325.9	600.0
STA 198+50 TO STA 200+75 - 18' RT TO 40' RT	24"	298.2	325.9	550.0
STA 216+50 TO STA 219+50 - FULL WIDTH	12"	1061.5	1119.6	-
STA 269+75 TO STA 272+00 - 17' LT TO 38' LT	24"	169.6	615.9	525.0
STA 269+25 TO STA 273+25 - 17' RT TO 38' RT	24"	298.9	614.8	933.3
STA 385+50 TO STA 391+60 - FULL WIDTH	12''	1729.6	1797.8	***
STA 394+50 TO STA 397+50 - FULL WIDTH	12"	781.5	834.4	-

POROUS GRANULAR EMBANKMENT, SUBGRADE (PGES), AND FABRIC FOR GROUND STABILIZATION HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSULTABLE OR UNSTABLE

THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES AND FABRIC SHALL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER OR SOILS INSPECTOR.

ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.03 OF THE STANDARD SPECIFICATIONS AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL (SSM).

AFTER EXCAVATION TO ROUGH SUBGRADE ELEVATION, THE ENGINEER OR SOILS INSPECTOR SHOULD OBSERVE THE BEHAVIOR OF THE ENTIRE EXPOSED SUBGRADE UNDER THE TRAFFIC OF HEAVY, RUBBER TIRED CONSTRUCTION EQUIPMENT SUCH AS MOTOR GRADERS OR FULLY-LOADED DUMP TRUCKS IN ACCORDANCE WITH THE GUIDELINES IN THE SSM. ANY PGES AND GEOTECHNICAL FABRIC FOR GROUND STABILIZATION NOT NEEDEED AT THE TIME OF CONSTRUCTION SHOULD BE DELETED FROM THE CONTRACT.

THE REPORT NOTES THAT TOPSOIL THICKNESS VARIES FROM 1 TO 36 INCHES, AN AVERAGE THICKNESS OF 12 INCHES IS RECOMMENDED FOR DETERMINATION OF TOPSOIL STRIPPING QUANTITIES, THE ENGINEER AND SOIL INSPECTOR SHOULD REMOVE ALL TOPSOIL DURING CONSTRUCTION. THE BORINGS SHOW THAT ALL THE TOPSOIL IS VERY MOIST AND WILL BE UNSTABLE. EMBANKMENT MATERIAL CAN BE USED FOR REPLACEMENT MATERIAL WHERE THE UNDERLYING SOIL IS STABLE, BUT POROUS GRANULAR EMBANKMENT, SUBGRADE WILL BE NEEDED IN THE AREAS LIKELY TO BE UNSTABLE.

PRIOR TO ANY EMBANKMENT PLACEMENT ALL VEGETATION, LOOSE MATERIAL AND UNSTABLE MATERIAL MUST BE REMOVED TO THE DEPTH ENCOUNTERED AND REPLACED WITH SUITABLE EMBANKMENT MATERIAL. THERE MAY ALSO BE SOME AREAS INVOLVING DRAINAGE DITCHES AND CULVERT ENTRANCE AND EXIT PONDS IN WHICH OBJECTIONABLE ORGANIC AND SEDIMENTARY DEPOSITS HAVE COLLECTED. THESE AREAS MUST BE PUMPED DRY OF ANY WATER COLLECTED IN THEM AND ALL UNSUITABLE MATERIAL REMOVED BEFORE ANY FILL MATERIAL IS PLACED OVER THEM.

REVISION		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SCHEDULE OF QUANTITIES
		U.S. RTE. 30 (LINCOLN HIGHWAY)
		SCALE: 1" = 50' DRAWN BY: BAE

DATE: 10/12/10

CHECKED BY : GB