

APPENDIX G

Exercise 15

Yardage Factor:

Earthwork cubic yardage (c.y.):

$$[(A1 + A2)/2 \times L] / 27$$

$$[(A1 + A2) \times L] / 54$$

A1,A2 (sq. ft.)

L (ft.) distance between stations

27 cu. ft./cu.yd.

$(A1+A2) \times \text{Yardage Factor}$

Example, L=50

$$\text{Y.F.} = 50/54 = .926$$

COMPUTED BY _____

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
PLANS DIVISION

SHEET _____

GRADING QUANTITIES

CHECKED BY _____ PROJECT _____

HIGHWAY

SR 95

COUNTY

ROANE

STATION	YDGE. FACTOR	END AREA		GRADE POINT	ROCK CLASS	CUBIC YARDS		BALANCES	
		EXC.	EMB.			EXC.	EMB.	EXC.	EMB.
87+00	.926	374	98						
						630	143		
+50	1	306	56			439	144	1069	287
88+00		168	100			229	331	1298	618
+50		79	257			122	582	1420	1200
89+00		53	372			91	903	1511	2103
+50		45	603			75	1261	1586	3364
90+00		36	759			33	2282	1619	5646
+50		0	1705			0	2670	1619	8316
91+00		0	1178			13	1488	1632	9804
0		14	429			28	528	1660	10332
92+00		16	141			31	391	1691	10723
+50		17	281			16	673	1707	11396
93+00		0	446			0	920	1707	12316
+50		0	548			0	1004	1707	13320
94+00		0	536			0	986	1707	14306
+50		0	529			1	924	1708	15320
95+00		1	469						
								X.85	
								1452	

SEEDING GRADING QUANTITIES

CHECKED BY		PROJECT		HIGHWAY		COUNTY				
ST	TN	YDGE.	Slope Length		GRADE POINT	ROCK CLASS	Area		BALANCES	
		FACTOR	L	R			L	R	EXC.	EMB.
'87	100	25	33	52			1625	2550		
	+50		32	50			1525	2200		
'88	100		29	38			1400	1575		
	+50		27	25			1000	1325		
'89	100		13	28			925	1700		
	+50		16	40			850	2200		
'90	100		18	48			1025	2475		
	+50		23	51			1500	2075		
'91	100		37	32			1400	1700		
	70		19	36			925	1400		
'92	100		18	20						
							11975	19200		
G-3										

