ESTIMATED DRAINAGE QUANTITIES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

255/646

CUYAHOGA COUNTY
CUY.-71-17.83
CUY-176-12.76

5/54

CODE	SEWER PROFILE SHEET NO.	I-1 Cl. E-1 12"	I-1 Cl. J-1 12"	I-1 Cl. J-1 15"	I-1 Cl. E-1 24"	I-1 Cl. J-1 M-6.4(d) 14 gage 27"	I-1 Cl. J-1 48"	I-1 Cl. J-1 84"	I-1 Cl. E-1 M-6.4(g) (5.3) gage 84"	I-1 Cl. E-1 M-106.6(b) Under Railroad 96"	I-1 Cl. E-1 M-106.6(c) 75° Radius 96"	I-1 Cl. E-1 M-106.6(c) 96"	I-1 Cl. J-1 96"	I-1 Cl. J-1 50° Radius 96"	I-1 Cl. J-1 M-6.6(b) 96"	I-5 Cl. E-1 30° Bend 24"
		LIN. FT.														Each
P-209	49		41													
P-212	49		28													
P-213	49		11													
P-214	49		30													
P-216	49		14													
P-217	49			77												
P-218	48							72								
P-219	49			4												
P-220	30					22										
P-221	30								113							
P-222	50												34	2.1		
P-223	36	11														
P-224	50												368	57		
P-225	30				20											1
P-226	50														302	
P-227	50									113				52		
P-228	50												373			
P-229	30						22									
P-230	50&51												197			
P-231	51										62	98				
P-232	51										162	198				
P-233	51									130		167				
TOTAL	(A)					22										
TOTAL	(B)	11	124	81	20		22	72	113	243*	224	463	972	130	302	1

SCALE
MADE J.M.O DATE 11-4-64
TRCD R.D.J DATE 11-4-64
CKD R.J.T DATE 12-15-64

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY CLEVELAND NEW YORK

(A) PROJECT CUY.-176-12.76
(B) PROJECT CUY.-71-17.83

* Includes tie Bolts

DRAINAGE PIPE QUANTITIES P-209 TO P-233