

QUANTITY CALCULATIONS
 BY C.E.R. DATE 9-85
 CHKD. I.M. DATE 9-85
 WOODRUFF, INC.

F.H.W.A. REGION	STATE	PROJECT
5	OHIO	
LAKE COUNTY		
LAK-20-17.14		

67
86

MARK	NUMBER	LENGTH	TYPE	SER. INCR.	WEIGHT (LBS)	A	B	C	R
EAST ABUTMENT									
AE601	29	15'-0"	7		653	6'-1"	6'-6"	2'-9"	
AE602	3	9'-5"	1		42	4'-3"	2'-9"		
EAE603	64	8'-4"	1		801	1'-8"	3'-6"		
EAE604	13	16'-6"	1		322	1'-8"	7'-7"		
EAE605	14	4'-8"	1		98	1'-2"	1'-11"		
EAE606	50	13'-4"	1		1,001	1'-8"	6'-0"		
EAE607	50	6'-6"	1		488	1'-2"	2'-10"		
AE608	3	10'-0"	2		45	1'-0"	9'-2"		
AE609	10	19'-2"	1		288	1'-2"	9'-2"		
AE610	20	7'-8"	STR.		230				
AE611	3	11'-11"	2		54	1'-0"	11'-1"		
AE612	10	23'-0"	1		345	1'-2"	11'-1"		
AE801	12	25'-9"	STR.		825				
AE802	2	26'-1"	4		139	24'-9"	1'-4"		2 1/2
AE803	2	23'-9"	STR.		127				
AE804	4	19'-3"	STR.		206				
AE805	2	23'-1"	STR.		123				
AE806	4	18'-10"	STR.		201				
AE807	4	6'-8"	STR.		71				
AE808	23	4'-11"	5		302	2'-7"	1'-0"		
TOTAL UNCOATED BARS					6,600				
TOTAL EPOXY COATED BARS					4,118				
PIER #1									
PW401	68	19'-2"	STR.		871				
PW402	2	9'-5"	STR.		13				
PW403	69	6'-9"	11		311	3'-0"	2'-6"		1'-6"
PW404	408	4'-0"	12		1,090	3'-0"			
PW501	2	10'-10"	STR.		23				
PW502	2	11'-10"	STR.		25				
PW503	2	27'-0"	STR.		56				
PW504	4	16'-9"	STR.		70				
PW505	4	19'-3"	STR.		80				
PW506	12	21'-0"	STR.		263				
PW507	6	11'-11"	4		75	10'-3"	1'-8"		7 3/8
PW508	2 SER 19	20'-7" 10'-7"	1	6 5/8"	618	3'-2"	8'-10" 3'-10"		
PW509	38	6'-11"	1		274	3'-2"	2'-0"		
PW510	41	4'-11"	1		210	3'-2"	1'-0"		

MARK	NUMBER	LENGTH	TYPE	SER. INCR.	WEIGHT (LBS)	A	B	C	R
PW901	49	15'-6"	STR.		2,582				
PW902	13	24'-2"	STR.		1,068				
PW903	82	8'-8"	2		2,416	1'-7"	7'-4"		
PW904	82	30'-0"	STR.		8,364				
PW905	82	16'-9"	STR.		4,670				
PW906	12	26'-6"	2		1,081	3'-7"	23'-2"		
PW907	10	23'-2"	STR.		788				
TOTAL UNCOATED BARS					24,948				
PIER #2									
PE401	78	19'-2"	STR.		999				
PE402	2	9'-5"	STR.		13				
PE403	79	6'-9"	11		356	3'-0"	2'-6"		1'-6"
PE404	468	4'-0"	12		1,250	3'-0"			
PE501	2	10'-10"	STR.		23				
PE502	2	11'-10"	STR.		25				
PE503	2	26'-3"	STR.		55				
PE504	4	16'-5"	STR.		68				
PE505	4	18'-10"	STR.		79				
PE506	12	21'-0"	STR.		263				
PE507	6	11'-11"	4		75	10'-3"	1'-8"		7 3/8
PE508	2 SER 19	20'-3" 10'-9"	1	6 5/8"	614	3'-2"	8'-8" 3'-11"		
PE509	38	6'-11"	1		274	3'-2"	2'-3"		
PE510	40	4'-11"	1		205	3'-2"	1'-0"		
PE901	58	23'-0"	10		4,536	20'-6"	1'-3"		
PE902	22	39'-0"	10		2,917	36'-6"	1'-3"		
PE903	82	9'-8"	2		2,695	1'-4"	8'-4"		
PE904	82	30'-0"	STR.		8,364				
PE905	82	22'-3"	STR.		6,203				
PE906	12	26'-6"	2		1,081	3'-7"	23'-2"		
PE907	10	23'-2"	STR.		788				
TOTAL UNCOATED BARS					30,883				

MARK	NUMBER	LENGTH	TYPE	SER. INCR.	WEIGHT (LBS)	A	B	C	R
BRIDGE DECK SLAB									
ES401	612	30'-0"	STR.		12,264				
ES402	47	17'-11"	STR.		563				
ES403	38	10'-1"	STR.		256				
ES404	3	22'-8"	STR.		45				
ES501	1,090	20'-6"	STR.		23,306				
ES502	86	20'-6"	STR.		1,839				
ES503	32	21'-7"	STR.		720				
ES504	32	23'-7"	STR.		787				
ES505	1 SER. 12	21'-6" 2'-6"	STR.	1'-8 3/4"	150				
ES506	1 SER. 9	18'-9" 4'-9"	STR.	1'-9"	110				
ES507	3	4'-8"	STR.		15				
ES508	1 SER. 10	18'-3" 2'-10"	STR.	1'-8 5/8"	110				
ES509	1 SER. 8	19'-3" 5'-8"	STR.	1'-11 1/4"	104				
ES510	4	5'-8"	STR.		24				
ES511	442	30'-0"	STR.		13,830				
ES512	34	22'-3"	STR.		789				
ES513	3	22'-8"	STR.		71				
ES514	131	30'-0"	STR.		4,099				
ES515	10	22'-3"	STR.		232				
ES516	635	5'-6"	STR.		3,643				
ES517	633	3'-10"	1		2,531	1'-5"	1'-4"		
ES518	631	3'-8"	1		2,413	1'-3"	1'-4"		
ES519	728	6'-3"	6		4,746	8"	2'-6"		
ES520	16	8'-9"	STR.		146				
ES521	36	4'-2"	9		156	1'-8"	1'-3"	1'-3"	

WOODRUFF, INC.
 CONSULTING ENGINEERS
 CLEVELAND, OHIO

REINFORCING STEEL LIST

U.S. ROUTE 20 OVER
 THE GRAND RIVER

BR. NO. LAK-20-1723 FROM STA. 18+91.00
 TO STA. 22+89.56

LAKE COUNTY OHIO

MADE BY: P.A.G. TRACED BY: M.A.G. CHECKED BY: P.G. REVIEWED BY: A.J.M. REVISION: 10/84
 DATE: 9-84 DATE: 9-84 DATE: 10-84 DATE: 10/84 SHEET: 20/22

U.S. 20 OVER GRAND RIVER