your trusted advisor consultants	→engineers architects planners

Northwoods One 7965 N. High Street (Suite 340) Columbus, Ohio 43235 614.885.1700 www.ctconsultants.com

1

BRIDGE QUANTITY CALCS.

(Tracings Submission)

For Trumbull County Engineer's Office 650 North River Road Warren, Ohio 44483

Bridge No. TRU-MYRON-0600 (CR505) Rehabilitation over Mud Run Hubbard, Trumbull County, Ohio

> PID No. 104656 TRU-MYRON ST (CR505)

> > October 11, 2019



Project MYRON STREET

Project No	170	469	Sheet N	No. 1	of 4
Calculated	By_	MLF	4	Date	5/31/19
Checked E	Зу	SAT	Ĺ	Date	6110/19
Subject				0-	NTY'S

20	2	1	112	203	P	R	Πον	oF	SIR	رىد	TURE	REM	aver	,	00	=12		20	Fo	T	SP	~	۰, ۱	45	2	E P.	PL	5N	~		5							
		1			a second second			SF		C. C. C. C.			1																		-	0	,00	20	>			
	Annual Contracts	- and the second	Constraint,	and an other states of the	Concernance of the local division of the loc	-	and a state of the	Rod	ALC: NO.	attances beats	CONTRACTOR DATE	CONTRACTOR OF THE OWNER OWNER OF THE OWNER	State Species	-	and the second second	Contract of the local division of the local	1		office and showing	Contraction of State	and the second															 		
	= 1	45	50	ME		15	F	- · L	0.0	2G	×	2	-6	F	7 7	2	ε	A	×	19.	2		86	.67	75	1 -	2		51	7	X	5 6	5	> Y	-	 		
20	22 -	-2	3	SPC			EA	1211	. 7		- 01	Q ~	5		78	~	(3)	15	D	-	$\langle \rangle$,		-												 		
			*****		-		and some man	(27	ter del sectore real		and a set of the set of	Construction of the local division of the lo	the Distance lines	the sector of the	and the state of the state of the	poral menormality	unspinisi			CO DO BLOTHER	Distant Distant	tribert-er	οy =	51	AY		24	10	5	Y								
																ç																						
1	- d						P														2	- 7														 		
2					4		1		1	;											15																	
		-																			_															 		
20			-		1			- 7 T x	1	1	and the second second				uniter to be and	Contractor of the	-	an second second	and and a second	2 b anti-sectors and	edite and excercises	and the second second	21203042421010		FI	websight												
		<u> </u>							1-1				4						-				-													 		
Sc	3-	11	10	0	Co	>F	FEI	201	m	5	4	E7	(CA	VA	T16.	Z	8	RA	CIN	6~	- L	-5																
	SA	4		\$15	510	0	9															•																
50	q -	10	1200	D	50		XY	C	A	1	- 0	12	2==) Fr	2120		NG		< T 8	5 -		~ 1	P														
5-								84				Contraction of the local division of the loc	and the second			and the second division in which the second division is not the second division of the second division is not the second division of the second division is not the second division of	-		Contraction of the	Distance of Long	-		No. of Concession, Name			++) ⁻	6		2	9,	-1	7	4	4 B	5	 		
			A	305				PI	Eiz					5	PE e	12						GE	NE	21	54					,								
510	> - (00	0) t	04	30	L	401	ES	5	~/	μο	2	511	RIJ	JK	, ^	U 10 /	NN	AET	TRI	LC	ic	GI	120	<u></u>	- /)	E	A								
	5		2×	(4+	25	+)	46)×	2	A	Bu	15		+		7 X	5	3		11	_	18	14	Ēł	Ą													
5	<u>,</u>	20	10									~													_													
	- 3 DEC			-	1	1		- 2		1			1	1				1						17			-	ZL	1.4	51	cy					1~	8	5 cy
					1		r	57.U	1																								7	2	cy	~		tcy
						1		24									1											1									- 9	
									-											1			6.3:										С	Y		 		1
		-																																				



Project	MY	RON	STR	2EET				
Project No	170	5469	She	et No	2	of	4	
Calculated	By_	ML	-F	Da	te	51	31/1	19
Checked E	1.1	SA	T	Da	te	.6	/10/1	9

Subject _	SINGE	\supset	601.	G / J	1 1	_	
	(

SIN-44110 CLASS GEZ CONCRETE, ABUTMENT NOT INCLUDING FOUTNG-CY	
= ((5FT × 1.5FT × 36 FT) ++ (1.25 FT × 1.33 FT × 10.67 FT) × 2 AOUTS × 127 = 3.3161 = 5AV	447
SIN- 51510 CLASS CALL CONCRETE, SIDEWALK ~ CY	
= (.67 FT +.77 FT) × G FT × 82 FT × 1/27 = 13.12 G/ => SAY 14 CY	
6	
512-10001 SEALING OF CONCRETE SUPFACES, AS PER PLAN (PERMANENT GRAFFIT PROTECTION)~ 5%	
REVIS + WWS ≈ (380 SF × 2 ABUTS) + (GO SF ~ 4 WWS) + (11 FT + 2×15FT)+ 1.33 FTx 2ABUTS =	1109.06
(WW T025)	
PIER - (320 SF 2 SIDES) + (15.17 FT × 1.5FT) + (1.5FT × 11 × 12FT) = 719,30	SE
(TOPS) (ENDS)	
INCREASE TOTAL BY 1000 FOR EX. STRUCTURE UNCERTANTIES	
= (109.06 SF + 719.30 SP) x1/4x1.1= 223.47 SV => SAY 225 5	YF
$ \left(\begin{array}{c} 1 - e & A & B & J \\ P & I & E & R \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B & J \\ P & I & E & R \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B & J \\ P & I & E & R \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B & J \\ P & I & E & R \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B & J \\ P & I & E & R \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B & J \\ P & I & E & R \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B & J \\ P & I & E & R \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B & J \\ P & I & E & R \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B & J \\ P & I & E & R \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B & J \\ P & I & E & R \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B & J \\ P & I & E & R \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B & J \\ P & I & E & R \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B & J \\ P & I & E & R \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B & J \\ P & I & E & R \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B & J \\ P & I & E & R \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B & J \\ P & I & E & R \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B & J \\ P & I & E & R \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B & J \\ P & I & E & R \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B & J \\ P & I & E & R \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B & J \\ P & I & E & R \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B & J \\ P & I & R \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B & I \\ P & I & R \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B & I \\ P & I & R \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B & I \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B & I \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A & B \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A \\ \end{array} \right) \left(\begin{array}{c} 1 - E & A \\ \end{array} \right) \left(\begin{array}{c} 1 - e & A \\ \end{array} \right) \left(\begin{array}{c} 1 - E & A \\ \end{array} \right) \left(\begin{array}{c} 1 - E & A \\ \end{array} \right) \left(\begin{array}{c} 1 - E & A \\ \end{array} \right) \left(\begin{array}{c} 1 - E & A \\ \end{array} \right) \left(\begin{array}{c} 1 - E & A \\ \end{array} \right) \left(\begin{array}{c} 1 - E & A \\ \end{array} \right) \left(\begin{array}{c} 1 - E & A \\ \end{array} \right$	
512-10050 SEALING OF CONCRETE SURFACE (NON-EPONY)NSY .	
= S.G7 FT x 82 FT + 1/9 = 31.66 51 => SAY 52 54	
SI2-10100 SEALING OF CONCRETE SURFACES (EFOXI-URETHAVE)~ SY	
SUBSTRUCTURE = 22-5 SY (SEE SIZ-10001)	
BARPIER = ((5.75 FT × 72 FT) + (8.75 FT × 10 FT))×1/q = 55,72 5Y	
SUPERSTRUCTURE = 3.83 FT × 49 FT × 19 = 20.85 5%	
TOTAL = 301 57 =7 544 302 34	
512-10601 CONCRETE REPAIR BY EPOXY INJECTION, AS, PER PLAN-FT	
= = 1326 FT (SEE PLAN REPAIR SINCETS)	
	-



Project	MIK	ON	STRI	EET			
Project No.		69	Sheet	No	3	of	4
Calculated				Date			131/19
Checked B		SA-	Г	_Date		6	16/19
Subject		3	EST.	Or	1-T 1	1S	

512-	330	00	T	-1PI	9		A A	ter	PI	200	FL	N 6	~	54														
=	11	Fī	ナ	B	FT.	w. 10	ж	* *	AF	307	5	. 1 - ×	9 -	7.	33	54	10,	>	5	AY		8	S	Y				
516-	1390	20	-	2 "	P.E	. 5	.F	, ~		55																		
-	1.3	3 F	57	× (2.0	14	+7	3	FΤ) 7	2	AB	UTC	52	K	8 -	54"	4	-7	5,	A 4	10	0 5	F	-			
516-	1402	0	SE	M1-	NT	EGR	LAL	AB	٣٦٥	LEN	F	XPA	N-51	GNI	50	7 اسر اج	5	EAL	~	Fτ								
And a local division of the second second second	(30			-	Augurant Indexedition of the	opposite the state	Contractory of the local division of the loc	1	1	in the second division of the second division	Contraction of the local division of the loc	South Street,	Concerning of the local division of the loca	and the local division of the local division	or other states of the party	1	A An International States	and an and the second	- Scottaged to a	Contraction of the		100	5 1	FT				
516-	4310	0	ELA	510M	ERIC	BEJ	21,20		INT	ERNA	L LA	MILLA	TES	020	-7 (n	EOPS	1.525	a) ((6">12'	' ~ 1.	4 <u>5</u> ^)	~ E	A					
	12																											
517	2000	0	RA	5161	NG	(т	· wu	ی ج ر	TE	54	τu	BE)~	F	Ţ													
	S¢				-				and a reason of a provide of				1			56	F٦											
517-7	5120	0	RA	1111	96	((ورد	REI	E	PAK	A.P.	ET	w/T	ww	TUP	PE S	STEE	LR	ALLI	~6)	N	FT						
	8																											
518-	212	.00		or	ous	B-	ACK	FILE	- W	1 E	EOT	EX	TILE	F	AB	210	~	cy										
11	K	7 s	F ((Ai	>> >	36	5 F1): +	-(11	> 51	€ €C	*D)	1 8	5.5	キナ)) * 2	AR	uas	*	127	20 6	34,	96 :	> :	SRY	2	5 0	<u>Y</u>
518-	2230	20	SI	PEC	AL	- < 2	SEE	DI	P-IP	57	FIF	~	FT															
Ξ	49	FT	+	(1.	SF	τ×	8 ī	657	5)	17	-	61	F	T	-	1												
519-	KIOI	·	PATO	HIA	16 (ON	SCRE	TE	ST	260	TUR	Ē, A	is Pe	RI	PLAI	J~1	SF											
Ę	67	3	SF		(Se	E	PLA	ע	FEI	PAI	R	-54	EE	15)								-	-					
526 -							(0			5	1	-	1		1		= 12), A	S REA	PL,	2~	54						
7	15	F	· ×	36	1.5	FT	Υ.	2	EA	7	70	R -		115	>	57												
526-					distant in a list of a state	and the second second second									No. of Concession, Name of Street, or other	(remain) and an and												
(;	2	×	34	5	FT	+	12.	67	FT	+	12	.92	FT	51	9	-1.5	9 F		7		SA	7	9	5 1	27			



Project	MAR	ON	STREE	ET		
Project N	0. 1701	169	Sheet N	NO. 41	of 4-	
Calculate	d By	ML	F		5131/1	
Checked	Ву	SAI		_Date _	6/10/19	(
Subject _	STAG	ε 3	EST	GAN	צ'ץידע	

