
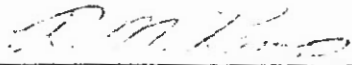


TO: MAIN OFFICE REGIONAL OFFICES SUPERSEDED BY EI 77-031 EFFECTIVE 5/1/1977	 ENGINEERING INSTRUCTION NEW YORK STATE DEPARTMENT OF TRANSPORTATION SUBJECT: ROUNDING OF NEAT QUANTITIES FOR STRUCTURE ESTIMATES Subject Code: 7.35
Distribution: <input checked="" type="checkbox"/> Main Office <input checked="" type="checkbox"/> Regions <input type="checkbox"/> Special	Code: EI 72-87 Date: 8/29/72
APPROVED:  <hr/> Deputy Chief Engineer (Structures)	Supersedes: Deputy Chief Engineer (Hwys) letter No. 63-37

Effective immediately the rounding rule as stated on page 21-4 in the "Highway Design Manual" Vol. 1, compiled by the Facilities Design Sub-division shall be used. The rule stated is as follows:

Rounding of neat quantities should be made to the next highest unit of ten to facilitate extensions, except when estimated quantities are small or are not subject to change, in which case rounding is undesirable. (Example: 43,542 neat, 43,550 proposal.)

Attached is a copy of page 21-11 (Figure 21-B) from the "Highway Design Manual" which illustrates a complete "Table of Quantities".

ITEM NO.	ITEM	UNIT	HIGHWAY TOTAL		BRIDGE TOTAL		TOTAL COMBINED	
			NEAT	PROPOSAL	NEAT	PROPOSAL	NEAT	PROPOSAL
51M-F	ASPHALT CONCRETE	TON	425	430			425	430
51MDX	ASPHALT CONCRETE DRIVEWAYS AND SIDEWALKS	TON	275	280			275	280
55S	SURFACE COURSE FOR STABILIZED SHOULDERS	S.Y.	42,938	42,940			42,938	42,940
59WWB	BITUMINOUS STABILIZED COURSE (INCL SHOULDERS)	C.Y.	15,832	15,840			15,832	15,840
60S	SURFACE TEXTURE & COLOR CONTRAST COURSE FOR SLAB SHOULDERS	S.Y.	29,936	29,940			29,936	29,940
61	BITUMINOUS MATERIAL	GAL.			35		35	35
67DX	BITUMINOUS MAT A - LIQUID MEDIUM CURING	GAL.	284,976	284,980			284,976	284,980
69MAX	BITUMINOUS MAT A - OUTBACK RAPID CURING	GAL.	26,147	26,150			26,147	26,150
70B	BITUMINOUS MAT A - EMULSION	GAL.	3,003	3,010			3,003	3,010
76	MAINTENANCE AND PROTECTION OF TRAFFIC - REQ. C	L.S.	NEC.	NEC.			NEC.	NEC.
78BZ	MEDIUM STONE FILLING	C.Y.	3,147	3,150			3,147	3,150
81A	REMOVING EXISTING SUPERSTRUCTURE	L.S.	NEC.	NEC.			NEC.	NEC.
835T	TEMPORARY STEEL SHEET PILING	S.F.	692	700			692	700
83TXS	TEMPORARY SHEET PILING	S.F.	4,430	4,440			4,430	4,440
85C	CAST IN PLACE CONCRETE PILES	S.F.	3,230	3,230			3,230	3,230
85PH	PREAUGERING FOR DRIVING PILES	L.F.	1,150	1,150			1,150	1,150
87	FURNISHING EQUIPMENT FOR DRIVING PILES	L.S.	NEC.	NEC.			NEC.	NEC.
94SVB	STONE CURB - BRIDGE TYPES	L.F.	684	690			684	690
97B8	CONCRETE CURB, TYPE B8	L.F.	2,714	2,720			2,714	2,720
97X1	CONCRETE CURB, TYPE X	L.F.	104	110			104	110
102DR1	DROP INLETS, TYPE A	L.F.	49	50			49	50
102DR2	DROP INLETS, TYPE E	L.F.	12	12			12	12
104	RIGHT OF WAY MARKERS	EA	263	263			263	263
104X	PERMANENT SURVEY MARKERS	EA	4	4			4	4
105	CONCRETE SIDEWALK	C.Y.	115	115			115	115
113MB	HIGHWAY BARRICADE (WOOD POSTS)	L.F.	90	90			90	90
116	PROJECT SURVEY AND STAKEOUT	L.S.	NEC.	NEC.			NEC.	NEC.
122	APPLYING SOIL CONDITIONERS	TON	25	25			25	25
123	SEEDING	ACRES	51	51			51	51
124	SODDING	S.Y.	2,837	2,840			2,837	2,840

ITEM NO.	ITEM	UNIT	HIGHWAY TOTAL		BRIDGE TOTAL		TOTAL COMBINED	
			NEAT	PROPOSAL	NEAT	PROPOSAL	NEAT	PROPOSAL
1B	CLEARING AND GRUBBING, BURNING PERMITTED	L.S.	NEC.	NEC.			NEC.	NEC.
1NB	SUPPLEMENTAL CLEARING AND GRUBBING	L.S.	NEC.	NEC.			NEC.	NEC.
1M	MOBILIZATION	L.S.	NEC.	NEC.			NEC.	NEC.
1W	FURNISHING WATER EQUIPMENT	L.S.	NEC.	NEC.			NEC.	NEC.
1WAD	APPLYING WATER	P.D.	300	300			300	300
2A	EXCAVATION AND DISPOSAL OF EXCAVATED MATERIAL	C.Y.	521,816	521,820			521,816	521,820
2B	EMBANKMENT IN PLACE	C.Y.	378,106	378,110			378,106	378,110
2ECB	SELECTED FILL	C.Y.	20,722	20,730			20,722	20,730
2EFB	SELECTED GRANULAR FILL	C.Y.	4,868	4,870			4,868	4,870
2SP	GRANULAR FILL, SLOPE PROTECTION	C.Y.	13,268	13,270			13,268	13,270
2UF	UNDERDRAIN FILTER	C.Y.	306	310			306	310
3	SUBBASE COURSE GRANULAR MATERIAL	C.Y.	30,360	30,360			30,360	30,360
5B	STRUCTURE EXCAVATION	C.Y.	1,012	1,020			1,012	1,020
5T	TRENCH AND CULVERT EXCAVATION	C.Y.	6,011	6,020			6,011	6,020
6	LABORATORY BUILDING	EA	1	1			1	1
6BA	CONCRETE CYLINDER CURING BOX	EA	1	1			1	1
6EZ	ENGINEERS OFFICE (TYPE B)	L.S.	NEC.	NEC.			NEC.	NEC.
7	TRIMMING ROAD SECTION	L.F./RD.	29,723	29,730			29,723	29,730
8	PREPARING FINE GRADE	S.Y.	117,902	117,910			117,902	117,910
11H6	PERF CORR. METAL PIPE UNDERDRAIN, 6" DIA.	L.F.	4,272	4,275			4,272	4,275
14-24	REINF. CONC. PIPE, CLASS IV, 24" DIA.	L.F.	1,332	1,340			1,332	1,340
14ES24	REINF. CONC PIPE END SECTIONS	EA	38	38			38	38
14MQ12	CULVERT PIPE OPT., 12" DIA.	L.F.	676	680			676	680
14MQ18	CULVERT PIPE OPT., 18" DIA.	L.F.	174	180			174	180
14ESM12	END SECTION OPTIONAL, 12" DIA.	EA	43	43			43	43
14ESM18	END SECTION OPTIONAL, 18" DIA.	EA	8	8			8	8
16	FURNISHING & APPLYING CALCIUM CHLORIDE	TON	130	130			130	130
18	CLASS A CONCRETE FOR STRUCTURES	C.Y.	100	100			100	100
18M4	CLASS A CONCRETE FOR STRUCTURES	S.F.	7,687	7,690			7,687	7,690
20	CLASS B CONCRETE FOR STRUCTURES	C.Y.	270	270			270	270
24A	BAGGED SCREENED AGGREGATE	C.Y.	24	24			24	24
28	BAR REINFORCEMENT FOR STRUCTURES	L.B.	1,099	1,100			1,099	1,100
28B	STUD SHEAR CONNECTORS	EA	3,376	3,376			3,376	3,376
29	STRUCTURAL STEEL	L.B.	167,960	167,960			167,960	167,960
30C	FRAMES AND GRATES, CASTINGS	S.F.	71	72			71	72
32DG	CABLE GUIDE RAIL (BEAM POSTS)	L.F.	14,400	14,400			14,400	14,400
32DDC	ANCHOR UNITS FOR CABLE GUIDE RAIL	EA	36	36			36	36
32DOR	ANCHOR UNITS FOR CABLE GUIDE RAIL (DRIVEWAYS)	EA	13	13			13	13
33AF	BOX BEAM GUIDE RAIL	L.F.	679	680			679	680
33AFOR	BOX BEAM GUIDE RAIL END ASSEMBLY	EA	6	6			6	6
33AFY	BOX BEAM GUIDE RAIL (SHOP CURVED)	L.F.	425	430			425	430
34A	GUIDE POST (WOOD)	EA	13	13			13	13
37S12	STEEL BRIDGE RAIL (2 RAIL)	L.F.	522	530			522	530
45SP	BASE COURSE ASPHALT CONCRETE, TYPE 1A	TON	12,376	12,380			12,376	12,380
51MFZ	ASPHALT CONCRETE (TOP COURSE)	TON	4,228	4,230			4,228	4,230