PROJECT : *CUY-90 PART 1*			
TASK : *ROCKY RIVER*		**PROJECT NO :**	
SUBJECT : *ESTIMATED QUANTITIES*			
CALCULATED BY : *SSW*	**DATE :** *4/3/2023*	**CHECKED BY :** *CDC*	**DATE :** *4/4/2023*

Michael Baker INTERNATIONAL

ROCKY RIVER VALLEY ESTIMATED QUANTITIES:

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION
513	10200	10348	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF

	TYPE 1 REPAIR		
	8	EA	TOTAL COUNT
	2352	SQ IN	1/2" PLATE AREA
	0.5	IN	THICKNESS
	0	SQ IN	3/8" PLATE AREA
	0.375	IN	THICKNESS
	490	LB/FT3	PLATE UNIT WEIGHT
	208	IN	ANGLE LENGTH
	12.8	LB/FT	UNIT WEIGHT
	94		# BOLTS
	1	LB	WT/BOLT (EST 3" LENGTH)
SUBTOTAL =	5194.71	LB	

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ROCKY RIVER VALLEY ESTIMATED QUANTITIES:

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION
		TYPE 2 REPAIR		
		5	EA	TOTAL COUNT
		1382.25	SQ IN	1/2" PLATE AREA
		0.5	IN	THICKNESS
		386.25	SQ IN	3/8" PLATE AREA
		0.375	IN	THICKNESS
		490	LB/FT3	PLATE UNIT WEIGHT
		107.5	IN	ANGLE LENGTH
		12.8	LB/FT	UNIT WEIGHT
		7.33	FT	NEW SECTION LENGTH
		50	LB/FT	NEW SECTION WT (OLD SECTION 18WF34)
		74		# BOLTS
		1	LB	WT/BOLT (EST 3" LENGTH)
	SUBTOTAL =	3961.92	LB	

PLATE REPAIRS			
1	EA	TOTAL COUNT	
1764	SQ IN	1/2" PLATE AREA	
0.5	IN	THICKNESS	
0	SQ IN	3/8" PLATE AREA	
0.375	IN	THICKNESS	
490	LB/FT3	PLATE UNIT WEIGHT	
SUBTOTAL = 250.10	LB		

513	21501	6500	LB	REPLACEMENT OF DETERIORATED END CROSSFRAMES, AS PER PLAN

END K-FRAMES			
3	EA	TOTAL COUNT	
144	SQ IN	1/2" PLATE AREA	
0.5	IN	THICKNESS	
490	LB/FT3	PLATE UNIT WEIGHT	
16.25	FT	NEW SECTION LENGTH (W8X28)	
28	LB/FT	UNIT WEIGHT	
18	FT	NEW SECTION LENGTH (WT6X25)	
25	LB/FT	UNIT WEIGHT	
16.25	FT	NEW SECTION LENGTH (W8X28)	
28	LB/FT	UNIT WEIGHT	
SUBTOTAL = 4141.25	LB		

WT6X25 JOINT SUPPORTS		
1.42	FT	LENGTH
25.00	LB/FT	UNIT WT
32.00		COUNT
SUBTOTAL = 1133.36	LB	

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ROCKY RIVER VALLEY ESTIMATED QUANTITIES:

ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION
		SUPPORT ANGLES		
		32.00		COUNT
		19.83	LB	WT
	SUBTOTAL =	634.46	LB	
		10%		APPLY FOR INCIDENTALS