E.L. ROBINSON
ENGINEERING

Computation for: **ESTIMATED QUANTITIES**

SFN: **6501746**

Structure: **PIC-00071-00.46L**

PID: **107630**

Design:	**JOL**	Date	**August 30, 2021**
Check:	**MMD**	Date	**September 24, 2021**
Update:		Date	
Recheck:		Date	

File Names

Comments

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DESIGN:	JOL	**DATE:**	8/30/21	**UPDATE:**		**DATE:**	
CHECK:	MMD	**DATE:**	9/24/21	**RECHECK:**		**DATE:**	
STRUCTURE:	PIC-00071-00.46L			**SFN:**	6501746	**PID:**	107630

ITEM: 202E11203 **PAY UNIT:** LS
SUBJECT: ESTIMATED QUANTITIES
DESCRIPTION: PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN
SUPPLEMENTAL DESCRIPTION:

	SUBTOTAL	TOTAL
SPECIAL INSTRUCTIONS:	**TOTAL**	**LS**

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STRUCTURE:	PIC-00071-00.46L			**SFN:**	6501746	**PID:**	107630

ITEM: 202E22900 **PAY UNIT:** SY
SUBJECT: ESTIMATED QUANTITIES
DESCRIPTION: APPROACH SLAB REMOVED
SUPPLEMENTAL DESCRIPTION:

			SUBTOTAL	TOTAL
L =	25	ft		
W =	40	ft		
A =	1000.0	sq ft		
	111.1	SY		
# =	2			
total A =	222	SY	222	
SPECIAL INSTRUCTIONS:			**TOTAL**	**222**

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STRUCTURE:	PIC-00071-00.46L			**SFN:**	6501746	**PID:**	107630

ITEM: 503E11100 **PAY UNIT:** LS
SUBJECT: ESTIMATED QUANTITIES
DESCRIPTION: COFFERDAMS AND EXCAVATION BRACING
SUPPLEMENTAL DESCRIPTION:

	SUBTOTAL	TOTAL
SPECIAL INSTRUCTIONS:	**TOTAL**	**LS**

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CHECK:	MMD	**DATE:**	9/24/21	**RECHECK:**		**DATE:**	
STRUCTURE:	PIC-00071-00.46L			**SFN:**	6501746	**PID:**	107630
ITEM:	503E21100	**PAY UNIT:**	CY				
SUBJECT:	ESTIMATED QUANTITIES						

DESCRIPTION: UNCLASSIFIED EXCAVATION

SUPPLEMENTAL DESCRIPTION:

			SUBTOTAL	TOTAL
ave depth =	5.5	ft		
width =	6.92	ft		
length =	96.89583	ft		
# =	2			
volume =	7375.711	cu ft		
	273.2	CY	273	273

SPECIAL INSTRUCTIONS: CHECK UNIT OF MEASURE

TOTAL **273**

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STRUCTURE:	PIC-00071-00.46L			**SFN:**	6501746	**PID:**	107630

ITEM: 504E11101 **PAY UNIT:** SF
SUBJECT: ESTIMATED QUANTITIES
DESCRIPTION: STEEL SHEET PILING LEFT IN PLACE, AS PER PLAN
SUPPLEMENTAL DESCRIPTION: SECTION MODULUS = 18.1 IN3/FT

			SUBTOTAL	TOTAL
ht. =	24	ft		
length =	12	ft		
A =	288	SF		
# locations =	2			
total A =	576	SF	576	576

SPECIAL INSTRUCTIONS: **TOTAL** **576**

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STRUCTURE:	PIC-00071-00.46L			**SFN:**	6501746	**PID:**	107630

ITEM: 505E11100 **PAY UNIT:** LS
SUBJECT: ESTIMATED QUANTITIES
DESCRIPTION: PILE DRIVING EQUIPMENT MOBILIZATION
SUPPLEMENTAL DESCRIPTION:

	SUBTOTAL	TOTAL
SPECIAL INSTRUCTIONS:	**TOTAL**	**LS**

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STRUCTURE:	PIC-00071-00.46L			**SFN:**	6501746	**PID:**	107630

ITEM: 507E00600 **PAY UNIT:** FT
SUBJECT: ESTIMATED QUANTITIES
DESCRIPTION: 14" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN
SUPPLEMENTAL DESCRIPTION:

	SUBTOTAL	TOTAL
Rear Abutment:		
est L = 60 ft		
# piles = 12		
total length = 720 FT	720	720
Forward Abutment:		
est L = 75 ft		
# piles = 12		
total length = 900 FT	900	1,620
SPECIAL INSTRUCTIONS:	**TOTAL**	**1,620**

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STRUCTURE:	PIC-00071-00.46L			**SFN:**	6501746	**PID:**	107630

ITEM: 507E00650 **PAY UNIT:** FT
SUBJECT: ESTIMATED QUANTITIES
DESCRIPTION: 14" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED
SUPPLEMENTAL DESCRIPTION:

	SUBTOTAL	TOTAL
Rear Abutment:		
est L = 65 ft		
# piles = 12		
total length = 780 FT	780	780
Forward Abutment:		
est L = 80 ft		
# piles = 12		
total length = 960 FT	960	1,740
SPECIAL INSTRUCTIONS:	**TOTAL**	**1,740**

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STRUCTURE:	PIC-00071-00.46L			**SFN:**	6501746	**PID:**	107630

ITEM: 507E93300 **PAY UNIT:** EACH
SUBJECT: ESTIMATED QUANTITIES
DESCRIPTION: STEEL POINTS OR SHOES
SUPPLEMENTAL DESCRIPTION:

	SUBTOTAL	TOTAL
Rear Abutment:		
# piles = 12	12	12
Forward Abutment:		
# piles = 12	12	24
SPECIAL INSTRUCTIONS:	**TOTAL**	**24**

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STRUCTURE:	PIC-00071-00.46L			**SFN:**	6501746	**PID:**	107630

ITEM: 509E10000 **PAY UNIT:** LB
SUBJECT: ESTIMATED QUANTITIES
DESCRIPTION: EPOXY COATED REINFORCING STEEL
SUPPLEMENTAL DESCRIPTION:

			SUBTOTAL	TOTAL
Railing =	7266	LB	7,266	7,266
Deck =	47739	LB	47,739	55,005
Rear Abutment =	8613	LB	8,613	63,618
Rear Diaphragm =	4985	LB	4,985	68,603
Forward Abutment =	8555	LB	8,555	77,158
Forward Diaphragm =	4985	LB	4,985	82,143
SPECIAL INSTRUCTIONS:			**TOTAL**	**82,143**

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ITEM: 509E30020 **PAY UNIT:** FT
SUBJECT: ESTIMATED QUANTITIES
DESCRIPTION: NO. 4 GFRP DEFORMED BARS
SUPPLEMENTAL DESCRIPTION:

	SUBTOTAL	TOTAL
Railing = 4966 FT	4,966	4,966
SPECIAL INSTRUCTIONS:	**TOTAL**	**4,966**

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STRUCTURE:	PIC-00071-00.46L			SFN:	6501746	PID:	107630

ITEM: 511E34446 PAY UNIT: CY
SUBJECT: ESTIMATED QUANTITIES
DESCRIPTION: CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK
SUPPLEMENTAL DESCRIPTION:

			SUBTOTAL	TOTAL
Deck:				
width =	59.33	ft		
thickness =	8.5	in		
length =	115.52	ft		
volume =	4854.8	cu ft		
	179.8	CY	180	180
haunch width =	49	in		
ave depth =	3.4	in		
length =	115.52	ft		
# =	8			
volume =	1069.2	cu ft		
	39.6	CY	40	219
overhang width =	9.5	in		
ave depth =	3.4	in		
length =	115.52	ft		
volume =	51.8	cu ft		
	1.9	CY	2	221
Diaphragm:				
ave depth =	6.83	ft		
width =	4.92	ft		
length =	68.51	ft		
# =	2			
volume =	4604.3	cu ft		
	170.5	CY	171	392

SPECIAL INSTRUCTIONS: CHECK UNIT OF MEASURE — TOTAL 392

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STRUCTURE:	PIC-00071-00.46L			**SFN:**	6501746	**PID:**	107630

ITEM: 511E34451 **PAY UNIT:** CY
SUBJECT: ESTIMATED QUANTITIES
DESCRIPTION: CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN
SUPPLEMENTAL DESCRIPTION:

			SUBTOTAL	TOTAL
A =	588	sq in		
	4.08	sq ft		
length =	137.52	ft		
# =	2			
total volume =	1123.1	cu ft		
	41.6	cu yd	42	42
transition:				
A1 =	588	sq in		
A2 =	352	sq in		
ave A =	470	sq in		
	3.26	sq ft		
length =	14.0	ft		
# =	4			
total volume =	182.8	cu ft		
	6.8	cu yd	7	48

SPECIAL INSTRUCTIONS: CHECK UNIT OF MEASURE **TOTAL** **48**

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STRUCTURE:	PIC-00071-00.46L			SFN:	6501746	PID:	107630

ITEM: 511E43512 PAY UNIT: CY
SUBJECT: ESTIMATED QUANTITIES
DESCRIPTION: CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING
SUPPLEMENTAL DESCRIPTION:

	SUBTOTAL	TOTAL
seat:		
width = 4.92 ft		
depth = 4.97 ft		
length = 94.9 ft		
# = 2		
volume = 4640.9 cu ft		
171.9 CY	172	172
wingwall:		
constant ht = 6.73 ft		
width = 2.5 ft		
length = 1.5 ft		
# = 4		
volume = 101.0 cu ft		
3.7 CY	4	176
min ht = 1.63 ft		
ave ht = 4.18 ft		
width = 2.5 ft		
length = 11.5 ft		
# = 4		
volume = 480.7 cu ft		
17.8 CY	18	193
SPECIAL INSTRUCTIONS:	TOTAL	193

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STRUCTURE:	PIC-00071-00.46L			SFN:	6501746	PID:	107630

ITEM: 512E10100 PAY UNIT: SY
SUBJECT: ESTIMATED QUANTITIES
DESCRIPTION: SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
SUPPLEMENTAL DESCRIPTION:

	SUBTOTAL	TOTAL
superstructure:		
perimeter = 114.5 in; 9.541667 ft; length = 115.52 ft; # sides = 2; A = 2204.5 sq ft; 244.9 SY		
AS perim = 94.8 in; 7.90 ft; length = 22 ft; # sides = 2; A = 347.6 sq ft; 38.6 SY		
ave trans perimeter = 7.38 ft; length = 14.00 ft; # = 4; A = 413.5 sq ft; 45.9 SY	330	330
abutment:		
ave face ht = 6.83 ft; ht on seat = 1 ft; width = 68.51 ft; # = 2; A = 1072.8 sq ft; 119.2 SY	119	449
wingwall:		
constant ht = 7.6 ft; length = 1.5 ft; # = 4; A = 45.6 sq ft; 5.1 SY		
front shelf width = 2.416667 ft; length = 25 ft; # = 2; A = 120.8 sq ft; 13.4 SY	18	467
min ht = 2.58 ft; ave ht = 5.09 ft; length = 23 ft; # = 2; A = 234.1 sq ft; 26.0 SY	26	493
top width = 2.5 ft; length = 27.9 ft; # = 2; A = 139.5 sq ft; 15.5 SY	16	509
back ht = 0.5 ft; length = 27.9 ft; # = 2; A = 27.9 sq ft; 3.1 SY	3	512
SPECIAL INSTRUCTIONS:	TOTAL	512

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STRUCTURE:	PIC-00071-00.46L			**SFN:**	6501746	**PID:**	107630

ITEM: 512E33000 **PAY UNIT:** SY
SUBJECT: ESTIMATED QUANTITIES
DESCRIPTION: TYPE 2 WATERPROOFING
SUPPLEMENTAL DESCRIPTION:

	SUBTOTAL	TOTAL
diaphragm closure pour:		
ht = 5.75 ft width = 3 ft # = 4		
A = 69.0 sq ft 7.7 SY	8	8
wingwall construction joint:		
ht = 3 ft length = 13 ft # = 4		
A = 156.0 sq ft 17.3 SY	17	25
SPECIAL INSTRUCTIONS: CHECK UNIT OF MEASURE	**TOTAL**	**25**

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STRUCTURE: PIC-00071-00.46L **SFN:** 6501746 **PID:** 107630

ITEM: 515E15100 **PAY UNIT:** EACH
SUBJECT: ESTIMATED QUANTITIES
DESCRIPTION: DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE WF54-49
SUPPLEMENTAL DESCRIPTION: LENGTH = 112'-4"

		SUBTOTAL	TOTAL
8	each	8	8
SPECIAL INSTRUCTIONS: SPECIFY BEAM LENGTH		**TOTAL**	**8**

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ITEM: 515E20000 **PAY UNIT:** EACH
SUBJECT: ESTIMATED QUANTITIES
DESCRIPTION: INTERMEDIATE DIAPHRAGMS
SUPPLEMENTAL DESCRIPTION:

	SUBTOTAL	TOTAL

# bays = 7 	
# rows = 3 	
total = 21 each
	21	21

SPECIAL INSTRUCTIONS:	**TOTAL**	**21**

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STRUCTURE:	PIC-00071-00.46L			**SFN:**	6501746	**PID:**	107630

ITEM: 516E13200 **PAY UNIT:** SF
SUBJECT: ESTIMATED QUANTITIES
DESCRIPTION: 1/2" PREFORMED EXPANSION JOINT FILLER
SUPPLEMENTAL DESCRIPTION:

			SUBTOTAL	TOTAL
width =	1	ft		
length =	68.51	ft		
# =	2			
A =	137.0	SF	137	137
SPECIAL INSTRUCTIONS:			**TOTAL**	**137**

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STRUCTURE:	PIC-00071-00.46L			**SFN:**	6501746	**PID:**	107630

ITEM: 516E13600 **PAY UNIT:** SF
SUBJECT: ESTIMATED QUANTITIES
DESCRIPTION: 1" PREFORMED EXPANSION JOINT FILLER
SUPPLEMENTAL DESCRIPTION:

			SUBTOTAL	TOTAL
width =	1	ft		
length =	68.51	ft		
# =	2			
A =	137.0	SF	137	137

SPECIAL INSTRUCTIONS:	**TOTAL**	**137**

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ITEM: 516E13900 **PAY UNIT:** SF
SUBJECT: ESTIMATED QUANTITIES
DESCRIPTION: 2" PREFORMED EXPANSION JOINT FILLER
SUPPLEMENTAL DESCRIPTION:

			SUBTOTAL	TOTAL
ht =	6.6	ft		
width =	5.68	ft		
# =	4			
A =	150.0	SF	150	150
SPECIAL INSTRUCTIONS:			**TOTAL**	**150**

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STRUCTURE:	PIC-00071-00.46L			**SFN:**	6501746	**PID:**	107630

ITEM: 516E14014 **PAY UNIT:** FT
SUBJECT: ESTIMATED QUANTITIES
DESCRIPTION: INTEGRAL ABUTMENT EXPANSION JOINT SEAL
SUPPLEMENTAL DESCRIPTION:

			SUBTOTAL	TOTAL
horizontal length =	71.51	ft		
vertical length =	3.35	ft		
# =	2			
total length =	156.4	FT	156	156
SPECIAL INSTRUCTIONS:			**TOTAL**	**156**

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ITEM: 516E44001 **PAY UNIT:** EACH
SUBJECT: ESTIMATED QUANTITIES
DESCRIPTION: ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN
SUPPLEMENTAL DESCRIPTION: 18"x10"x1.75" W/LOAD PLATE ASSEMBLY

	SUBTOTAL	TOTAL
# per abutment = 8 # of abutments = 2 total = 16 EACH	16	16
SPECIAL INSTRUCTIONS: <2" THICK, SPECIFY DIMENSIONS	**TOTAL**	**16**

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ITEM: 518E12301 **PAY UNIT:** EACH
SUBJECT: ESTIMATED QUANTITIES
DESCRIPTION: SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN
SUPPLEMENTAL DESCRIPTION:

	SUBTOTAL	TOTAL
7 each	7	7
SPECIAL INSTRUCTIONS: GIRDER BRIDGES	**TOTAL**	**7**

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ITEM: 518E21200 **PAY UNIT:** CY
SUBJECT: ESTIMATED QUANTITIES
DESCRIPTION: POROUS BACKFILL WITH GEOTEXTILE FABRIC
SUPPLEMENTAL DESCRIPTION:

	SUBTOTAL	TOTAL
abutment:		
ave ht = 10.55 ft		
width = 68.90 ft		
thickness = 2 ft		
# = 2		
volume = 2907.6 cu ft		
107.7 CY	108	108
wingwall:		
ave ht = 7.65 ft		
width = 13 ft		
thickness = 2 ft		
# = 4		
volume = 795.6 cu ft		
29.5 CY	29	137
SPECIAL INSTRUCTIONS: CHECK UNIT OF MEASURE	**TOTAL**	**137**

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STRUCTURE:	PIC-00071-00.46L			**SFN:**	6501746	**PID:**	107630

ITEM: 518E40000 **PAY UNIT:** FT
SUBJECT: ESTIMATED QUANTITIES
DESCRIPTION: 6" PERFORATED CORRUGATED PLASTIC PIPE
SUPPLEMENTAL DESCRIPTION:

	SUBTOTAL	TOTAL
length per abut = 94.90 ft # = 2		
total length = 189.8 FT	190	190
SPECIAL INSTRUCTIONS:	**TOTAL**	**190**

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STRUCTURE:	PIC-00071-00.46L			**SFN:**	6501746	**PID:**	107630

ITEM: 518E40011 **PAY UNIT:** FT
SUBJECT: ESTIMATED QUANTITIES
DESCRIPTION: 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, AS PER PLAN
SUPPLEMENTAL DESCRIPTION:

	SUBTOTAL	TOTAL
length per abut = 30 ft # = 2		
total length = 60.0 FT	60	60
SPECIAL INSTRUCTIONS:	**TOTAL**	**60**

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DESIGN:	JOL	**DATE:**	8/30/21	**UPDATE:**		**DATE:**	
CHECK:	MMD	**DATE:**	9/24/21	**RECHECK:**		**DATE:**	
STRUCTURE:	PIC-00071-00.46L			**SFN:**	6501746	**PID:**	107630

ITEM: 523E20000 **PAY UNIT:** EACH
SUBJECT: ESTIMATED QUANTITIES
DESCRIPTION: DYNAMIC LOAD TESTING
SUPPLEMENTAL DESCRIPTION:

		SUBTOTAL	TOTAL
2	each	2	2
SPECIAL INSTRUCTIONS:		**TOTAL**	**2**

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STRUCTURE:	PIC-00071-00.46L			**SFN:**	6501746	**PID:**	107630

ITEM: 526E25001 **PAY UNIT:** SY
SUBJECT: ESTIMATED QUANTITIES
DESCRIPTION: REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN
SUPPLEMENTAL DESCRIPTION:

			SUBTOTAL	TOTAL
length =	25	ft		
width =	59.33	ft		
# =	2			
A =	2966.5	sq ft		
	329.6	SY	330	330

SPECIAL INSTRUCTIONS:	**TOTAL**	**330**

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DESIGN:	JOL	**DATE:**	8/30/21	**UPDATE:**		**DATE:**	
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STRUCTURE:	PIC-00071-00.46L			**SFN:**	6501746	**PID:**	107630
ITEM:	526E90010	**PAY UNIT:**	FT				
SUBJECT:	ESTIMATED QUANTITIES						

DESCRIPTION: TYPE A INSTALLATION

SUPPLEMENTAL DESCRIPTION:

	SUBTOTAL	TOTAL
length per AS = 64.66 ft # = 2		
total length = 129.3 FT	129	129
SPECIAL INSTRUCTIONS:	**TOTAL**	**129**

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DESIGN:	JOL	**DATE:**	8/30/21	**UPDATE:**		**DATE:**	
CHECK:	MMD	**DATE:**	9/24/21	**RECHECK:**		**DATE:**	
STRUCTURE:	PIC-00071-00.46L			**SFN:**	6501746	**PID:**	107630
ITEM:	601E32200	**PAY UNIT:**	CY				
SUBJECT:	ESTIMATED QUANTITIES						

DESCRIPTION: ROCK CHANNEL PROTECTION, TYPE C WITH FILTER

SUPPLEMENTAL DESCRIPTION:

			SUBTOTAL	TOTAL
rear length =	23	ft		
rear width =	96.84	ft		
thickness =	2	ft		
volume =	4454.4	cu ft		
	165.0	CY	165	165
forward length =	20.1	ft		
forward width =	99.68	ft		
thickness =	2	ft		
volume =	4007.0	cu ft		
	148.4	CY	148	313
SPECIAL INSTRUCTIONS:			**TOTAL**	**313**

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DESIGN:	JOL	**DATE:**	8/30/21	**UPDATE:**		**DATE:**	
CHECK:	MMD	**DATE:**	9/24/21	**RECHECK:**		**DATE:**	
STRUCTURE:	PIC-00071-00.46L			**SFN:**	6501746	**PID:**	107630

ITEM: 846E00110 **PAY UNIT:** CF
SUBJECT: ESTIMATED QUANTITIES
DESCRIPTION: POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM
SUPPLEMENTAL DESCRIPTION:

			SUBTOTAL	TOTAL
length =	64.7	ft		
width =	20	in		
thickness =	3	in		
# =	2			
volume =	53.9	CF	54	54
SPECIAL INSTRUCTIONS:			**TOTAL**	**54**

MADE BY: JOL DATE: 8/30/2021
CHECKED BY: MMD DATE: 9/24/2021

ESTIMATED QUANTITIES

STRUCTURE FILE NUMBER:

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	SUPER.	GEN.	REFERENCE SHEET
202	11203	LUMP		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				
202	22900	222	SY	APPROACH SLAB REMOVED			222	
503	11100	LUMP		COFFERDAMS AND EXCAVATION BRACING				
503	21100	273	CY	UNCLASSIFIED EXCAVATION	273			
504	11101	576	SF	STEEL SHEET PILING LEFT IN PLACE, AS PER PLAN (SECTION MODULUS = 18.1 IN3/FT)	576			
505	11100	LUMP		PILE DRIVING EQUIPMENT MOBILIZATION				
507	00600	1,620	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	1,620			
507	00650	1,740	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	1,740			
507	93300	24	EACH	STEEL POINTS OR SHOES	24			
509	10000	82,143	LB	EPOXY COATED REINFORCING STEEL	17,168	64,975		
509	30020	4,966	FT	NO. 4 GFRP DEFORMED BARS		4,966		
511	34446	392	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK		392		
511	34451	48	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN		48		
511	43512	193	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING	193			
512	10100	512	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	182	330		
512	33000	25	SY	TYPE 2 WATERPROOFING	17	8		
515	15100	8	EACH	DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE WF54-49 (LENGTH = 112'-4")		8		
515	20000	21	EACH	INTERMEDIATE DIAPHRAGMS		21		
516	13200	137	SF	1/2" PREFORMED EXPANSION JOINT FILLER	137			
516	13600	137	SF	1" PREFORMED EXPANSION JOINT FILLER	137			
516	13900	150	SF	2" PREFORMED EXPANSION JOINT FILLER	150			
516	14014	156	FT	INTEGRAL ABUTMENT EXPANSION JOINT SEAL	156			
516	44001	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (18"x10"x1.75" W/LOAD PLATE ASSEMBLY)		16		
518	12301	7	EACH	SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN		7		
518	21200	137	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	137			
518	40000	190	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	190			
518	40011	60	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, AS PER PLAN	60			
523	20000	2	EACH	DYNAMIC LOAD TESTING	2			
526	25001	330	SY	REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN			330	
526	90010	129	FT	TYPE A INSTALLATION			129	
601	32200	313	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	313			
846	00110	54	CF	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM			54	