MAD-71-04.700 Bridge Quantity Calculations

PID: 107630

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

ITEM NO.	202E11203
QUANTITY	1
UNIT	LUMP

Deck Concrete Removal

Width (ft)	Length (ft)	#	Area (SF)	
30.50	286.58	1	8740.7	
		Total=	8740.7	SF

assume	$20.00	SF	Total=	$174,813.80

Abutment Concrete Removal

	Width (ft)	Length (ft)	Top EL	Bot EL	Height	#	Volume	
Abutment Backwalls (Rear)	34	1.75	642.83	639.17	3.66	1	8.07	CY
Abutment Backwalls (Forward)	34	1.75	642.75	639.01	3.74	1	8.24	CY

	Area (SF)	Width (ft)					
Abutment Wingwalls (Rear)	71.3897	1.5			2	7.93	CY
Abutment Wingwalls (Forward)	70.5235	1.5			2	7.84	CY
Rail(Rear)	1.625	13.1667			4	3.17	CY
Curb	33.4311	1.625			2	4.02	CY
Curb w/walk	78.8319	1.6667			2	9.73	CY
					Abutments Total =	49.00	CY
assume	$200	CY			Cost=	$9,800.39	

Pier Concrete Removal	Width (ft)	Length (ft)	Height	#	Volume	
	0	0	3.5	0	0.00	CY
assume	$250	CY		Cost=	$0.00	

Total Cost = $184,614.19

Say = $200,000

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: APPROACH SLAB REMOVED

ITEM NO.	202E22900
QUANTITY	156
UNIT	SY

	Area (ft^2)	#		
APPROACH SLAB REMOVED	700	2	156	SY
		TOTAL=	**156**	**SY**

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: GRANULAR MATERIAL, TYPE B

ITEM NO.	204E30010
QUANTITY	20
UNIT	CY

	Width (ft)	Area (sq ft)	Volume	#		
GRANULAR MATERIAL	31.3334	8.5	9.86	2	20	CY
				TOTAL=	**20**	**CY**

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: GEOTEXTILE FABRIC

ITEM NO.	204E50000
QUANTITY	313
UNIT	SY

	Width	Length	Area	#		
GEOTEXTILE FABRIC	31.3334	45	156.67	2	313	SY

TOTAL= 313 SY

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: UNCLASSIFIED EXCAVATION, AS PER PLAN

ITEM NO.	503E21101
QUANTITY	542
UNIT	CY

	area (SF)	top el	bot el	width (ft)	Length (ft)		
rear abutment		967.27	962.81	3	32.2000	430.84	15.96
forward abutment		967.27	962.81	3	32.2000	430.84	15.96
wingwall 1	43.3	967.27	962.81			193.27	7.16
wingwall 2	43.3	967.27	962.81			193.27	7.16
wingwall 3	43.3	967.27	962.81			193.27	7.16
wingwall 4	43.3	967.27	962.81			193.27	7.16
wingwall (behind) 1		967.27	962.81	3	9.75	130.46	4.83
wingwall (behind) 2		967.27	962.81	3	9.75	130.46	4.83
wingwall (behind) 3		967.27	962.81	3	9.75	130.46	4.83
wingwall (behind) 4		967.27	962.81	3	9.75	130.46	4.83
					Abut Total=		65.38

	Height (ft)	width (ft)	Length (ft)	#		
Under Approach slab	1	8	31.33	2	501.28	18.57
	1	1.5	31.33	2	47.00	1.74
	5.5	24.5	31.33	2	8443.44	312.72
	5.5	4.5	31.33	2	775.42	28.72
				Total=		362

Piers	area (SF)	Height	Vol (CY)	#	
Piers 1 & 3	197.1331	1.75	12.77715	6	76.66
Pier 2	197.1331	1.75	12.77715	3	38.33
				Pier Total =	115

TOTAL= 542 CY

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: EPOXY COATED REINFORCING STEEL

ITEM NO.	509E10000
QUANTITY	81888
UNIT	LB

		Total	
Superstructure	58567	58567	LB
Parapet	15413	15413	LB
Abutments	3102	3102	LB
Abutment Diaphragm	4806	4806	
	TOTAL=	**81888**	**LB**

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: UNCOATED REINFORCING STEEL

ITEM NO.	509E25000
QUANTITY	450
UNIT	LB

		Total	
Abutments	450	450	LB
TOTAL=		**450**	**LB**

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: No. 4 GRRP DEFORMED BARS

ITEM NO.	509E30020
QUANTITY	10345
UNIT	FT

	Total
Total from Reinforcing Steel List	10345

TOTAL= 10345 FT

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER

ITEM NO.	510E10001
QUANTITY	128
UNIT	EACH

	Dowel Holes	#	TOTAL
REAR ABUTMENT (Left Wingwall)	28	1	28
REAR ABUTMENT (Right Wingwall)	28	1	28
FORWARD ABUTMENT (Left Wingwall)	28	1	28
FORWARD ABUTMENT (Right Wingwall)	28	1	28
REAR ABUTMENT (Diaphragm Guide)	8	1	8
FORWARD ABUTMENT (Diaphragm Guide)	8	1	8
	ABUTMENTS (TOTAL)		128

TOTAL= 128 EACH

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: SEMI-INTEGRAL DIAPHRAGM GUIDE, AS PER PLAN

ITEM NO.	511E33501
QUANTITY	2
UNIT	EACH

	#
REAR ABUTMENT	1
FORWARD ABUBMENT	1
TOTAL=	**2** **EACH**

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: CLASS QC2 CONCRETE, WITH QC/QA, SUPERSTRUCTURE, AS PER PLAN

ITEM NO.	511E34413
QUANTITY	27
UNIT	CY

	Length (ft)	*Width (ft)*	*Height (ft)*	#	Total (CF)	Total (CY)
Diaphragm	32.63	3.75	3	2	734.2	27
					TOTAL =	**27** **CY**

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: CLASS QC2 CONCRETE, WITH QC/QA, BRIDGE DECK

ITEM NO.	511E34446
QUANTITY	260
UNIT	CY

	Slab Length (ft)	*Width (ft)*	*Thickness (ft)*	*Flange Area (ft^2)*	#	Total (CF)	Total (CY)
Deck	286.58	31.33	0.7083		1	6360.5	236
Haunches-Interior	286.58	1.00	0.2500		2	143.3	5
Haunches-Fascia	286.58	4.17	0.2396	0.07833	2	527.3	20
						TOTAL =	**260** **CY**

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN

ITEM NO.	511E34451
QUANTITY	101
UNIT	CY

Bridge Parapet

		Area parapet (ft)	Length (ft)	#	CF
Bridge	LEFT	4.09	286.58	2	2344

		Area (ft)	Length along app. Slab (ft)	#	
Approach Slab	LEFT	4.09	11	2	90
	RIGHT	4.09	11	2	90
Transition 1	LEFT	3.51	14	2	98
Transition 2	RIGHT	3.51	14	2	98
				TOTAL=	101
				TOTAL=	**101** **CY**

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: CLASS QC1 CONCRETE, RETAINING/WINGWALL INCLUDING FOOTING

ITEM NO.	511E46210
QUANTITY	31
UNIT	CY

Abutment Concrete

		Area (ft^2)	Ht (ft.)	Width (ft)	Len (ft)	#	Total (CF)	
Left Wingwall	(Rear)	67.0363	4.0	1.50	16.6667	1	100.55	
Right Wingwall	(Rear)	66.76178	4.0	1.50	16.8333	1	100.14	
Left Wingwall	(Forward)	66.76178	4.0	1.50	16.8333	1	100.14	
Right Wingwall	(Forward)	67.0363	4.0	1.50	16.6667	1	100.55	
Breastwall Extension	(Rear)		5.535	2.25	7.6	1	94.31	
Breastwall Extension	(Forward)		5.535	2.25	7.6	1	94.31	
Footing			2.25	2.25	23.2	2	234.56	
						Abutment Total=	824.58	30.54
						TOTAL=	**31.0**	**CY**

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

ITEM NO.	512E10100
QUANTITY	987
UNIT	SY

		Sealing Ht (ft)	Width (ft)	Face Area (SF)	#	Area (SF)	Area (SY)
REAR	STEM FACE	6.66	32.63		1	217.37	24.2
	Left Wingwall	17.17	1.50	63.04	1	88.79	9.9
	Right Wingwall	17.33	1.50	61.20	1	87.20	9.7
				Rear Abutment Total=		393.4	43.7
FORWARD	STEM FACE	6.66	32.63		1	217.37	24.2
	Left Wingwall	17.33	1.50	62.05	1	88.05	9.8
	Right Wingwall	17.17	1.50	63.87	1	89.62	10.0
				Forw. Abutment Total=		395.0	43.9
				Abutments Total=		788.4	88.00

		Ht (ft)	Width (ft)	#	Area (SF)	Area (SY)
PIER 1	COLUMNS	14.54	9.42	3	410.9	45.7
	CAP FACES	3.50	28	2	196.0	21.8
	CAP ENDS	3.50	3	2	21.0	2.3
PIER 2	COLUMNS	14.97	9.42	3	423.1	47.0
	CAP FACES	3.50	28	2	196.0	21.8
	CAP ENDS	3.50	3	2	21.0	2.3
PIER 3	COLUMNS	14.54	9.42	3	410.9	45.7
	CAP FACES	3.50	28	2	196.0	21.8
	CAP ENDS	3.50	3	2	21.0	2.3
				PIERS TOTAL=	1895.9	211.0

Superstructure

	Perimeter (ft)	Length (ft)	#	Area (SF)	Area (SY)
LEFT-Parapets	9.51	286.58	1	2724.83	302.8
LEFT-Approach Parapets	7.89	10.9167	2	172.34	19.1
LEFT-Approach Parapet Transition	7.08	14	2	198.24	22.0
			Left Total=	3095.41	343.9
RIGHT-Parapets	9.51	286.58	1	2724.83	302.8
RIGHT-Approach Parapets	7.89	10.9167	2	172.34	19.1
RIGHT-Approach Parapets	7.08	14	2	198.24	22.0
			Right Total=	3095.41	343.9
			Super Total=	6190.82	688.00
			TOTAL=	**8875.08**	**987.0** **SY**

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: TYPE 2 WATERPROOFING

ITEM NO.	512E33000
QUANTITY	20
UNIT	SY

	Length (ft)	Height (ft)	#		Area (SF)
Wingwalls	8.00	5.50	4		176.00
				Total=	176.00

TOTAL = 20 SY

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: WELDED STUD SHEAR CONNECTORS

ITEM NO.	513E20000
QUANTITY	2904
UNIT	EACH

	SHEAR STUD	# of rows	# of beams	Total
BEAM	242	3	4	2904

TOTAL= 2904 EACH

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: STRUCTURAL STEEL,MISC.: 2" DIA. FIELD DRILLED HOLES

ITEM NO.	513E95030
QUANTITY	24
UNIT	EACH

	Field Holes	# of beams	Total
BEAM	6	4	24

TOTAL= 24 EACH

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION:	ITEM NO.	QUANTITY	UNIT
SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL	514E00050	11700	SF
FIELD PAINTING STRUCTURAL STEEL, PRIME COAT	514E00056	11700	SF
FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT	514E00060	11700	SF
FIELD PAINTING STRUCTURAL STEEL, FINISH COAT	514E00066	11700	SF
GRINDING FINS, TEARS, SLIVER ON EXISTING STRUCTURAL STEEL	514E00504	19	MNHR
FINAL INSPECTION REPAIR	514E10000	12	EACH

	Length (ft)	bf (in)	d (in)	Perim. (in)	#		Area (SF)
Beams	282	12	36	108	4		10152.00
3X3X5/16 Crossframes	24.92			9.3125	75		1450.42
Area in Diaphragm	1.75	12	36	108	4	Total=	11602.42
Grinding Fins, Tears, Slivers on Exist. Steel	282				4	19	MNHR
Final Inspection Repair	8.00	4				12.00	EACH

Rounded up to account for bottom moment plates

TOTAL = 11700 SF

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: ARMORLESS PREFORMED JOINT SEAL

ITEM NO.	516E10010
QUANTITY	70
UNIT	LF

	Length (Ft.)	#		Length
REAR ABUTMENT	33.80	1.00		33.8
FORWARD ABUTMENT	33.80	1.00		33.8
			ABUTMENT TOTAL=	67.6
			TOTAL =	**70.0** **LF**

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: 1" PREFORMED EXPANSION JOINT FILLER

ITEM NO.	516E13600
QUANTITY	20
UNIT	SF

	Area (SF)	#		Area	
REAR ABUTMENT	4.08	2.00		8.2	SF
FORWARD ABUTMENT	4.08	2.00		8.2	SF
			ABUTMENT TOTAL=	16.3	SF
			TOTAL =	**20.0**	**SF**

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: 2" PREFORMED EXPANSION JOINT FILLER

ITEM NO.	516E13900
QUANTITY	380
UNIT	SF

	Length	*height*	#		Area	
REAR WINGWALLS	16.33	4.70	2		153.5	SF
FORWARD WINGWALLS	16.33	4.70	2		153.5	SF
DIAPHRAGM END (REAR)	3.75	4.70	2		35.3	SF
DIAPHRAGM END (FORWARD)	3.75	4.70	2		35.3	SF
				ABUTMENT TOTAL=	377.5	SF
				TOTAL =	**380.0**	**SF**

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL

ITEM NO.	516E14020
QUANTITY	64
UNIT	FT

	Length	#	Total (FT)
Rear abutment	32.00	1	32
Forward Abutment	32.00	1	32
		TOTAL =	**64** **FT**

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: ELASTOMERIC BEARINGS WITH INTERNAL LAMINATES (11"x14"x2.948") AND LOAD PLATE (12"x15"x1.5") (NEOPRENE), AS PER PLAN

ITEM NO.	516E44101
QUANTITY	8
UNIT	EA

	# BRGS	#	Total
Abutments	4	2	8
		TOTAL =	**8** **EA**

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN

ITEM NO.	516E47001
QUANTITY	25000
UNIT	LS

	# Jacking Points	#	Cost/Point	Total
Abutments	5	2	1000	10000
Piers	5	3	1000	15000
			Total=	25000

TOTAL = 25000.0 LUMP

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed: GTB
Date: 6/1/2021
Checked: RG
Date: 6/17/2021

DESCRIPTION: POROUS BACKFILL WITH GEOTEXTILE FABRIC, AS PER PLAN

ITEM NO. 518E21201
QUANTITY 20
UNIT CY

	Top EL.	*Bott. EL.*	*Height (ft)*	*width*	*length*	*#*		
REAR ABUTMENT	960.81	958.45	2.36	2	32.50	1	153.40	5.68
FORWARD ABUTMENT	960.81	958.45	2.36	2	32.50	1	153.40	5.68
WINGWALL (REAR ABUTMENT)	960.81	958.45	2.36	2	7.63	2	71.98	2.67
WINGWALL (FWD ABUTMENT)	960.81	958.45	2.36	2	7.63	2	71.98	2.67
					ABUTMENTS TOTAL=			16.69

TOTAL = 20.0 CY

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: 6" PERFORATED CORRUGATED PLASTIC PIPE

ITEM NO.	518E40000
QUANTITY	65
UNIT	FT

	Length	#	Total (FT)
Rear Abutment	32.50	1	33
Forward Abutment	32.50	1	33
		TOTAL =	**65** **FT**

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: 6" NON-PERFORATED CORRUGATED PLASTIC PIPE INCLUDING SPECIALS, AS PER PLAN

ITEM NO.	518E40011
QUANTITY	48
UNIT	FT

	Length	#	Total (FT)
Rear Abutment	12	2	24
Forward Abutment	12	2	24
		TOTAL =	**48** **FT**

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: SPECIAL - COMPOSITE FIBER WRAP SYSTEM

ITEM NO.	519E00100
QUANTITY	1248
UNIT	SF

	Column Perimeter	Height	#	Total	Total (SF)
PIER 1	9.425	14.54	3	411.17	412
PIER 2	9.425	14.97	3	423.25	424
PIER 3	9.425	14.54	3	411.17	412
				TOTAL =	**1248** **SF**

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15")

ITEM NO.	526E25010
QUANTITY	175
UNIT	SY

	Width (ft)	Len (ft)	#		Total (SF)	Total (SY)
Rear	31.3334	25	1		783.34	87.0
Forward	31.3334	25	1		783.34	87.0
				Total=	1566.7	**174.1**

TOTAL = 175.0 SY

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: TYPE C INSTALLATION, AS PER PLAN

ITEM NO.	526E90031
QUANTITY	66
UNIT	FT

	Len (ft)	#	Total Length (FT)
Rear Sleeper Slab	32.63	1	32.6
Forward Sleeper Slab	32.6300	1	32.6
		TOTAL	**65.3**
		TOTAL =	**66.0** **FT**

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN

ITEM NO.	601E20001
QUANTITY	100
UNIT	SY

Use Contingeny Quantity of 100 SY

TOTAL = 100.0 SY

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC

ITEM NO.	607E39900
QUANTITY	570
UNIT	FT

	Len (ft)	#	Total Length (FT)
Vandal Fence Length	285	2	570.0

TOTAL = 570.0 FT

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: STRUCTURE GROUNDING SYSTEM

ITEM NO.	625E33000
QUANTITY	1
UNIT	EACH

No. on each End	#	Total
1		1.0

TOTAL = 1.0 EACH

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: SELECT GRANULAR BACKFILL

ITEM NO.	840E23000
QUANTITY	227
UNIT	CY

	Width (ft)	Area (sq ft)	Volume	#		
SELECT GRANULAR BACKFILL	31.3334	97.5	113.15	2	226	CY

TOTAL = 227.0 CY

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: PATCHING CONCRETE SURFACES WITH TROWELABLE MORTAR

ITEM NO.	843E50000
QUANTITY	40
UNIT	SF

	Area (SF)	#	50% Increase	Total (SF)
FORWARD ABUTMENT	2.08	1	1.04	4
PIER 1	8.00	1	4.00	12
PIER 3	15.88	1	7.94	24
			TOTAL =	**40** **SF**

BG Engineering Group

Project: MAD/PIC-71-4.56/0.00
Bridge: MAD-00071-04.700
Client: ODOT District 6

QUANTITY COMPUTATIONS

Designed:	GTB
Date:	6/1/2021
Checked:	RG
Date:	6/17/2021

DESCRIPTION: GEOGRID, TYPE P1

ITEM NO.	863E00100
QUANTITY	971
UNIT	SY

	Width (ft)	Length (ft)	Area	#		
GEOGRID, TYPE P1	31.3334	139.4	485.32	2	971	SY

TOTAL = 971.0 SY