

QUANTITY CALCULATIONS	MADE BY: DFK	DATE: 3/12/24	ITEM NUMBER: 510E10000
	CHECKED BY: WER	DATE: 3/19/24	PAGE NUMBER: 4



PID NO. 111186 PROJECT SUM-480-07.45 L/R STRUCTURE SUM-480-07.45 RIGHT
 ITEM NAME DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT PAY UNIT EACH

DESCRIPTION								SUB TOTAL	TOTAL
Abutments									
Rear Abutment:									
	Number of Dowel Bars	Number of Dowel Holes per Bar			Total No. of Dowels				
	112	1			112			112	
Forward Abutment:									
	Number of Dowel Bars	Number of Dowel Holes per Bar			Total No. of Dowels				
	112	1			112			112	
TOTAL								224	224

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PID NO. 111186 PROJECT SUM-480-07.45 L/R STRUCTURE SUM-480-07.45 RIGHT
 ITEM NAME CLASS QC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING PAY UNIT CY

DESCRIPTION										SUB TOTAL	TOTAL
Rear Abutment											
Stem											
		Stem Joint Elev =	1035.32	ft							
		Top of Footing Elev =	1033.73	ft							
		Ht =	1.59	ft	Vol =	249.84	CF				
		Plan Area =	157.13	sf	Vol =	10	CY			10.0	
Forward Abutment											
Stem											
		Stem Joint Elev =	1037.73	ft							
		Top of Footing Elev =	1036.06	ft							
		Ht =	1.67	ft	Vol =	262.41	CF				
		Plan Area =	157.13	sf	Vol =	10	CY			10.0	
TOTAL										20	20

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PID NO. 111186 PROJECT SUM-480-07.45 L/R STRUCTURE SUM-480-07.45 RIGHT
 ITEM NAME SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) PAY UNIT SY

DESCRIPTION					SUB TOTAL	TOTAL
Rear Abutment						
Stem						
T/ Abut Stem Elev.	T/Ground Elev.	Length (ft)	Area (ft^2)	Area (YD^2)		
1037.42	1034.82	52.0	134.94	15.00	15.00	
(Conservatively using max. Abut Stem height across entire length)						
Stem Sides						
Height (ft)	Left Length (ft)	Right Length (ft)	Area (ft^2)	Area (YD^2)		
2.60	4.3	3.0	18.84	3.00	3.00	
Forward Abutment						
Stem						
T/ Abut Stem Elev.	T/Ground Elev.	Length (ft)	Area (ft^2)	Area (YD^2)		
1039.75	1037.23	52.0	130.78	15.00	15.00	
(Conservatively using max. Abut Stem height across entire length)						
Stem Sides						
Height (ft)	Left Length (ft)	Right Length (ft)	Area (ft^2)	Area (YD^2)		
2.51	4.3	3.0	18.26	3.00	3.00	
TOTAL					36	36

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PID NO. 111186 PROJECT SUM-480-07.45 L/R STRUCTURE SUM-480-07.45 RIGHT
 ITEM NAME REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES PAY UNIT SY

DESCRIPTION										SUB TOTAL	TOTAL
Rear Abutment											
Stem											
T/ Abut Stem Elev.	T/Ground Elev.	Length (ft)	Area (ft^2)	Area (YD^2)							
1038.07	1035.45	50.0	130.75	15.00						15.00	
(Conservatively using max. Abut Stem height across entire length)											
Stem Sides											
Height (ft)	Left Length (ft)	Right Length (ft)	Area (ft^2)	Area (YD^2)							
2.62	4.3	3.0	18.99	3.00						3.00	
Forward Abutment											
Stem											
T/ Abut Stem Elev.	T/Ground Elev.	Length (ft)	Area (ft^2)	Area (YD^2)							
1039.43	1036.85	50.0	128.75	15.00						15.00	
(Conservatively using max. Abut Stem height across entire length)											
Stem Sides											
Height (ft)	Left Length (ft)	Right Length (ft)	Area (ft^2)	Area (YD^2)							
2.58	4.3	3.0	18.70	3.00						3.00	
TOTAL										36	36

QUANTITY CALCULATIONS	MADE BY: DFK	DATE: 3/12/24	ITEM NUMBER: 516E13200
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PID NO. 111186 PROJECT SUM-480-07.45 L/R STRUCTURE SUM-480-07.45 RIGHT
 ITEM NAME 1/2" PREFORMED EXPANSION JOINT FILLER PAY UNIT SF

DESCRIPTION							SUB TOTAL	TOTAL
Rear Abutment								
Abutment Joint Seal								
				Total Length =	52.00	ft.		
				Width =	0.833	ft.		
				Total =	43.333	SF	44	
Forward Abutment								
Abutment Joint Seal								
				Total Length =	52.00	ft.		
				Width =	0.833	ft.		
				Total =	43.333	SF	44	
TOTAL							88	88

QUANTITY CALCULATIONS	MADE BY: DFK	DATE: 3/12/24	ITEM NUMBER: 516E13600
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PID NO. 111186 PROJECT SUM-480-07.45 L/R STRUCTURE SUM-480-07.45 RIGHT
 ITEM NAME 1" PREFORMED EXPANSION JOINT FILLER PAY UNIT SF

DESCRIPTION							SUB TOTAL	TOTAL
Rear Abutment								
Abutment Joint Seal			Total Length =	52.00	ft.			
			Width =	0.833	ft.			
			Total =	43.333	SF	44		
Forward Abutment								
Abutment Joint Seal			Total Length =	52.00	ft.			
			Width =	0.833	ft.			
			Total =	43.333	SF	44		
TOTAL							88	88

QUANTITY CALCULATIONS	MADE BY: DFK	DATE: 3/12/24	ITEM NUMBER: 516E14015
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PID NO. 111186 PROJECT SUM-480-07.45 L/R STRUCTURE SUM-480-07.45 RIGHT

ITEM NAME INTEGRAL ABUTMENT EXPANSION JOINT SEAL, AS PER PLAN PAY UNIT FT

DESCRIPTION										SUB TOTAL	TOTAL
At Abutments											
	Length		No. of								
	Ft		Abuts								
	65.5		2							131	
TOTAL										131	131

QUANTITY
CALCULATIONS

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PID NO. 111186 PROJECT SUM-480-07.45 L/R STRUCTURE SUM-480-07.45 RIGHT

ITEM NAME 6" PERFORATED CORRUGATED PLASTIC PIPE PAY UNIT FT

DESCRIPTION										SUB TOTAL	TOTAL
At Abutments											
	Length		No. of								
	Ft		Abuts								
	60		2							120	
TOTAL										120	120

QUANTITY CALCULATIONS	MADE BY: dfk	DATE: 3/12/24	ITEM NUMBER: 519E11101
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PID NO. 111186 PROJECT SUM-480-07.45 L/R STRUCTURE SUM-480-07.45 RIGHT
ITEM NAME PATCHING CONCRETE STRUCTURE, AS PER PLAN PAY UNIT SF

DESCRIPTION										SUB TOTAL	TOTAL
Piers:											
North Pier, North Face:											
Measured Area* (ft^2)	Est. Area. (ft^2)										
2.9	3.3										3.34
Measured Area = ((22"x19"))/144 = 2.9 sf.											
Estimated Area = Measured Area x 1.15											
TOTAL										3.34	4

QUANTITY CALCULATIONS	MADE BY: DFK	DATE: 3/12/24	ITEM NUMBER: 601E20001
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PID NO. 111186 PROJECT SUM-480-07.45 L/R STRUCTURE SUM-480-07.45 LEFT
 ITEM NAME CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN PAY UNIT SY

DESCRIPTION								SUB TOTAL	TOTAL
Crushed Aggregate Slope Protection									
Assume top 3' of slope protection will be disturbed									
Width (ft.)	Length (ft.)	Area (sq. ft.)	Area (sq. yd.)	No. of Abutments					
50.00	3.00	150.00	16.67	2			33.33		
TOTAL								34	34