

STRUCTURE ESTIMATED QUANTITIES

Retaining Wall 4W4

South Side of Ramp C5 from FRA-70-1390C to FRA-70-1395C

**FRA-70/71-12.68/14.86
PID No. 105523**

Franklin County, Ohio

Prepared For:

**The Ohio Department of Transportation
District 6**



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May 31, 2019

Project: WALL 4W4
Subject: Estimated Quantities - Stage 3 Design
Date: 5/21/19

Design: RFV
Check: MOJ

ITEM 503 - UNCLASSIFIED EXCAVATION

Front Wall *quantified by Roadway per AI Rolland

Back Area length = 152.000 ft
height = 7.000 ft
thickness = 8.250 ft

Back Area length = 81.000 ft
height = 7.000 ft
thickness = 6.750 ft

Total = 467 cy

ITEM 509 - EPOXY COATED REINFORCING STEEL

Wall 615,852 lbs

Total = 615,852 lbs

ITEM 511 - CLASS QC2 CONCRETE WTH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN

Knee Wall area 3.62 sf
length 233.22 ft
volume 844.26 cf

Total = 32 cy

ITEM 511 - CLASS QC1 CONCRETE WITH QC/QA, RETAINING WALL NOT INCLUDING FOOTING

Section A cap height 4.00 ft
cap depth 5.25 ft
stem wall height (avg) 3.08 ft
stem depth 3.00 ft
length 151.88 ft
volume 4,594.22 cf

Section A cap height 4.00 ft
cap depth 3.75 ft
stem wall height (avg) 3.08 ft
stem depth 3.00 ft
length 81.45 ft
volume 1,975.08 cf

Total = 244 cy

ITEM 511 - CLASS QC1 CONCRETE WITH QC/QA, FOOTING

façade panel ftg area = 611.61 sf flood area of footing, including area between shafts
 height = 2.50 ft
 subtract = 174.99 cf

Total = 51 cy

ITEM 512 - SEALING OF CONCRETE SURFACES (NON-EPOXY)

backside perimeter = 5.92 ft *backside of parapet included in face area
length = 233.22 ft

Total = 154 sy

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

face area = 4,804.35 sf

Total = 534 sy

ITEM 516 - 1" PREFORMED EXPANSION JOINT FILLER

knee wall area = 3.62 sf
stem area = 9.25 sf
cap area = 21.00 sf
locations = 3
subtotal = 102 sf

top of panel 233.22 ft
width = 0.92 ft
subtotal = 213.79 sf

panel width = 0.92 ft
length = 60.89 ft
subtotal = 55.82 sf

Total = 372 sf

ITEM 518 - POROUS BACKFILL WITH GEOTEXTILE FABRIC

area = 0.33 sf
length = 233.22 ft

Total = 3 cy

ITEM 518 - 6" PERFORATED CORRUGATED PLASTIC PIPE

length = 240.00 ft

Total = 240 ft

ITEM 518 - 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS

length = 10.00 ft

Total = 10 ft

ITEM 524 - DRILLED SHAFTS, 42" DIAMETER, ABOVE BEDROCK

total length = 1,441.77 ft

Total = 1,442 ft

ITEM 524 - DRILLED SHAFTS, 60" DIAMETER, ABOVE BEDROCK

total length = 2,276.56 ft

Total = 2,277 ft

SPECIAL 530E00600 - STRUCTURES: PRECAST FAÇADE PANELS

face area 1 = 1,569.40 sf

face area 2 = 866.10 sf

face area 3 = 1,895.67 sf

Total = 4,332 sf

SPECIAL 6079E98000 - FENCE, MISC.: WALL MOUNTED TYPE A (W/ VANDAL MESH)

length = 233.22 ft

Total = 234 ft