

# **STRUCTURE ESTIMATED QUANTITIES**

## **Floodwall along I-71 NB / Ramp A5**

**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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**GPD GROUP**  
Glaus, Pyle, Schomer, Burns & DeHaven, Inc.

Job I-WALL STAGE 3 EST.

Sheet No. 1 of 2

Calculated by RFV Date 2/24

Checked by TJW Date 2/25

202 PORTIONS OF STRUCTURE REMOVED

EXISTING WALL 420' ±

SAY SIMILAR SHAPE TO EXISTING

± 2.25' x 4' + 3.5 x 1.92' = 15.72 SF/FT CONC.

15.72 SF x 420 FT/27 = 245 CY x \$200  
= \$49,000

SAY \$50,000

503 - UNCLASSIFIED EXCAVATION

4.25' WIDE x 8' ± AVG. HT. x 440/27 = 562 CY

504 - SHEET PILING LEFT IN PLACE, AS PER PLAN

SEC NO.	TOP SHEET	BOT SHEET	SHEET HT.	LENGTH FT	AREA SF
1	718.00	706.00	12.0	57.13	685.56
2	716.38	701.38	15.0	74.21	1113.15
3	715.71	698.21	17.0	274.49	4666.3
4	716.95	699.95	17.0	40.0'	680.0

Σ = 7,145.0 SF



S11 - CLASS QC CONC. MISC.: FLOODWAY

• SEC 1-4

AVG. TOP ELEV.  $(722.83 + 721.89 + 722.13 + 722.83) / 4 = 722.42$

AVG. 'B' ELEV.  $(\overset{\text{AVG.}}{718.86} + \overset{\text{AVG.}}{717.67} + \overset{\text{AVG.}}{717.17} + \overset{\text{AVG.}}{717.57}) / 4 = 717.82$

AVG. BOT. ELEV.  $[711.71(274.49) + 712.38(74.21) + 714(57.13) + 712.95(40.0')] \div 445.83 = 712.23$   
WT. AVG.

- BURIED  $717.82 - 712.23 = 5.59$  AVG. HT  
 $5.49' \times 2.25' \text{ WIDE} \times 445.83' = 5507.12 \text{ CF}$

- EXPOSED  $722.42 - 717.82 = 4.6'$  AVG. HT.  
 $[3.5' \times 1.92' + (4.6' - 3.5') \times 1.58'] \times 445.83' = 3770.83$

TOTAL =  $(5507.12 + 3770.83) / 27 = \underline{\underline{344 \text{ CY}}}$

S12 - SEALING OF CONC. SURFACES

AVG. EXP. HT  $4.6' + 1.58' \text{ TOP} + 1.5' \text{ BACK} = 7.68 \text{ SF/FT}$

$(7.68 \times 445.83') / 9 = 381 \text{ SY}$  Say 386 SY