

STRUCTURE ESTIMATED QUANTITIES

CAST-IN-PLACE WALL 4W7

I-70 MEDIAN FROM FRA-70-1373R TO FRA-70-1390C

**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



ESTIMATED QUANTITIES

ITEM 503 - COFFERDAMS AND EXCAVATION BRACING

EXT. 11100

LUMP SUM

ITEM 503 - UNCLASSIFIED EXCAVATION

EXT. 21100

SEGMENT 1:	(93' L)	(17' W)	(4.5' D, AVG.)	=	7,115	CF
SEGMENT 2:	(91' L)	(17' W)	(4.8' D, AVG.)	=	7,426	CF
SEGMENT 3:	(87.5' L)	(17' W)	(4.8' D, AVG.)	=	7,140	CF
SEGMENT 4:	(90' L)	(14' W)	(4.8' D, AVG.)	=	6,048	CF
SEGMENTS:	(55.5' L)	(13' W)	(4.2' D, AVG.)	=	<u>3,030</u>	CF
					30,759	CF

$30,759 \text{ CF} / 27 = \underline{1,140 \text{ CY}}$ (502, 638)

ITEM 509 - EPOXY COATED REINFORCING STEEL

EXT. 10000

135,999 LBS (59,780 , 76,083)



Client: ODOT D 6
 PID No.: 105523
 Subject: C.I.P. Wall 4W7 Estimated Quantities

Job No.: 2012048
 Sheet No.: 2 Of 4
 Made By: MOJ Date: 1/30/2019
 Chk'd By: TJW Date: 1/30/2019

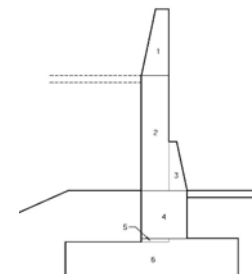
SEGMENT	LOCATION	DIMENSIONS			CONCRETE VOLUME		SEALING AREA	
		HEIGHT (FT)	WIDTH (FT)	LENGTH (FT)	Area (SF)	VOLUME (CF)	PERIMETER (FT)	AREA (SF)
TRANSITION A WB EXTENSION	1 - WB PARAPET	4.75	2.33 avg.	4.81	11.07	53.23	10.94 avg.	52.62
	2 - UPPER WALL	10.85 avg.	2.78 avg.	4.81	30.16	145.08	-	52.19
	3 - EB PARAPET	-	-	-	-	-	-	-
	4 - LOWER WALL	15.38 avg.	2.78 avg.	4.81	42.76	205.66	-	-
	5 - KEY	-	-	-	-	-	-	-
SUBTOTAL					403.98		SUBTOTAL	104.81
TRANSITION A	1 - WB PARAPET	4.75	1.79 avg.	49.45	8.50	420.45	10.94 avg.	540.98
	2 - UPPER WALL	11.18 avg.	2.24 avg.	49.45	25.04	1,238.39	-	379.78
	3 - EB PARAPET	3.50	1.84 avg.	49.45	6.44	318.46	5.08 avg.	250.96
	4 - LOWER WALL	14.76 avg.	4.41 avg.	49.45	65.09	3,218.78	-	-
	5 - KEY	0.25	2.24 avg.	49.45	0.56	27.69	-	-
SUBTOTAL					5,223.76		SUBTOTAL	1,171.72
1	1 - WB PARAPET	4.75	1.30 avg.	35.24	6.16	217.09	10.43	367.55
	2 - UPPER WALL	11.29 avg.	1.75	35.24	19.76	696.25	-	274.52
	3 - EB PARAPET	3.50	0.83 avg.	35.24	2.92	102.78	4.06	143.07
	4 - LOWER WALL	14.07 avg.	2.92	35.24	41.04	1,446.16	-	-
	5 - KEY	0.25	1.75	35.24	0.44	15.42	-	-
SUBTOTAL					2,477.70		SUBTOTAL	785.15
2	1 - WB PARAPET	4.75	1.30 avg.	90.00	6.16	554.42	10.43	938.70
	2 - UPPER WALL	11.16 avg.	1.75	90.00	19.53	1,757.70	-	689.40
	3 - EB PARAPET	3.50	0.83 avg.	90.00	2.92	262.50	4.06	365.40
	4 - LOWER WALL	11.89 avg.	2.92	90.00	34.68	3,121.13	-	-
	5 - KEY	0.25	1.75	90.00	0.44	39.38	-	-
SUBTOTAL					5,735.12		SUBTOTAL	1,993.50
3	1 - WB PARAPET	4.75	1.30 avg.	90.00	6.16	554.42	10.43	938.70
	2 - UPPER WALL	10.50 avg.	1.75	90.00	18.38	1,653.75	-	630.00
	3 - EB PARAPET	3.50	0.83 avg.	90.00	2.92	262.50	4.06	365.40
	4 - LOWER WALL	8.77 avg.	2.92	90.00	25.58	2,302.13	-	-
	5 - KEY	0.25	1.75	90.00	0.44	39.38	-	-
SUBTOTAL					4,812.17		SUBTOTAL	1,934.10
4	1 - WB PARAPET	4.75	1.30 avg.	90.00	6.16	554.42	10.43	938.70
	2 - UPPER WALL	9.23 avg.	1.75	90.00	16.15	1,453.73	-	515.70
	3 - EB PARAPET	3.50	0.83 avg.	90.00	2.92	262.50	4.06	365.40
	4 - LOWER WALL	5.41 avg.	2.92	90.00	15.78	1,420.13	-	-
	5 - KEY	0.25	1.75	90.00	0.44	39.38	-	-
SUBTOTAL					3,730.14		SUBTOTAL	1,819.80
5	1 - WB PARAPET	4.75	1.30 avg.	15.54	6.16	95.73	10.43	162.08
	2 - UPPER WALL	8.44 avg.	1.75	15.54	14.77	229.53	-	76.77
	3 - EB PARAPET	3.50	0.83 avg.	15.54	2.92	45.33	4.06	63.09
	4 - LOWER WALL	2.61 avg.	2.92	15.54	7.61	118.30	-	-
	5 - KEY	0.25	1.75	15.54	0.44	6.80	-	-
SUBTOTAL					495.68		SUBTOTAL	301.94
TRANSITION B	1 - WB PARAPET	4.75	2.03 avg.	40.00	9.64	385.70	11.17 avg.	446.80
	2 - UPPER WALL	7.98 avg.	2.49 avg.	40.00	19.87	794.81	-	179.20
	3 - EB PARAPET	3.50	1.76 avg.	40.00	6.16	246.40	4.99 avg.	199.40
	4 - LOWER WALL	2.25 avg.	4.58 avg.	40.00	10.31	412.20	-	-
	5 - KEY	0.25	2.49 avg.	40.00	0.62	24.90	-	-
SUBTOTAL					1,864.01		SUBTOTAL	825.40
TOTAL					24,742.56		TOTAL	8,936.42

ITEM 511 - CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING
 EXT. 46012

24742.56 CF/27 = 917 CY (403, 514)

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
 EXT. 10100

8936.42 SF/9 = 993 SY (437, 556)





ITEM 512 - TYPE 2 WATERPROOFING

EXT. 33000

(3' WIDE) (24.83' + 21.88' + 17.74' + 13.03') / 9 = 26 SY (11, 15)

TO BE INCLUDED WITH PROJECT 6A

ITEM 516 - 1" PREFORMED EXPANSION JOINT FILLER

EXT. 13600

- EXP. JT #1: 70 SF (CADD AREAS)
- EXP. JT #2: 61 SF
- EXP. JT #3: 51 SF
- EXP. JT #4: 38 SF
- 220 SF (97, 123)

ITEM 516: 2" PREFORMED EXPANSION JOINT FILLER

EXT. 13900

38 SF (CADD AREA) (17, 21)