DISTRICT 10 - BRIDGE DEPARTMENT

MUSKINGUM DRIVE, BOX 658, MARIETTA OHIO 45750

COUNTY: WAS ROUTE: 530 SECTION: 5.04 SHEET 1 OF 2

CALCULATED BY: DATE:

CHECKED BY: DATE:

CLASS QC 1 CONCRETE, RETAINING/WINGWALL

½(5.5' + 9')(9.5')(1') /27 = 2.55 CY

(0.41 SQ FT)(9') /27 = 0.14 CY

2.69 × 2 = 5.38 CU YD (INLET)

½(6.5' + 9')(9.5')(1') /27 = 2.73 CY

½(5.5' + 9')(9.5')(1') /27 = 2.55 CY

(0.41 SQ FT)(9') /27 = 0.14 × 2 = 0.28 CY

5.56 CU YD (OUTLET)

TOTAL = 5.38 + 5.56 = 10.94 CU YD

CLASS QC 1 CONCRETE, FOOTING

½(8.26' + 11.36')(7.5')(2') /27 = 5.45 CY

½(11.68' + 17.89')(7.5')(2') /27 = 8.21 CY

½(8.26' + 11.36')(7.5')(2') /27 = 5.45 CY

½(9.26' + 8.88')(1.5')(1') /27 = 0.48 CY

½(11.68' + 12.92')(1.5')(1') /27 = 0.68 CY

½(8.26' + 8.88')(1.5')(1') /27 = 0.48 CY

(14')(3')(1') /27 = 1.56 CY

22.31 × 2 = 44.62 CU YD

CLASS QC1 CONCRETE, HEADWALL

(14')(1')(1') /27 = 0.52 CY × 2 = 1.04 CU YD

TYPE 2 WATERPROOFING

(14')(40') /9 = 62.22 SY

(8')(42') /9 = 37.33 SY × 2 = 74.67 SY

136.89 SQ YD

1" PREFORMED EXPANSION JOINT FILLER

(9')(1') × 4 = 36 SQ FT

DISTRICT 10 - BRIDGE DEPARTMENT

MUSKINGUM DRIVE, BOX 658, MARIETTA OHIO 45750

COUNTY: WAS ROUTE: 550 SECTION: 5.04 SHEET 2 OF 2

DATE:

DATE:

CALCULATED BY:

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SEALING OF CONCRETE SURFACES

½(1.5' + 8')(9.5') /9 = 5.01 SY

(1.5')(1') /9 = 0.17 SY

½(1.5' + 8')(9.5') /9 = 5.01 SY

(1.5')(1') /9 = 0.17 SY

(10.12' + 14.90' + 10.12')(1') /9 = 3.90 SY

(34.85')(1') /9 = 3.87 SY

(14')(1') /9 = 1.56 SY

FACE OF BOX : 28 SF /9 = 3.11 SY

INSIDE BOX : (33.66')(2') /9 = 7.48 SY

30.28 SQ YD

TOTAL = 30.28 × 2 = 60.56 SQ YD

POROUS BACKFILL

½(4.5' + 8')(9.5')(1.5') /27 = 3.30 CY

½(4.5' + 8')(9.5')(1.5') /27 = 3.30 CY

½(5.5' + 8')(9.5')(1.5') /27 = 3.56 CY

½(4.5' + 8')(9.5')(1.5') /27 = 3.30 CY

13.46 CU YD

LOW STRENGTH MORTAR BACKFILL

(2')(8')(40') /27 = 23.70 CY

½(10')(8')(40') /27 = 71.11 CY

94.81 × 2 = 189.62 CU YD