# MED-18-12.99

# **RETAINING WALL NO. 4**

**Medina County** 

PID No. 92953

# WALL ESTIMATED QUANTITIES Final Tracing Submittal

for
Ohio Department of Transportation – District 3

Prepared by:



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#### ESTIMATED QUANTITIES



Job MEO-	18-12,99 - RI	ETAINING 1	NAI	L	NO.4	
Sheet No	1	of				
Calculated by	RFU	Date	U	5	18	
Checked by	DIC	Date	4	1-	118	

## ITEM 503 - UNCLASSIFIED EXCAVATION

CAPP AREA OF ELEV. BELOW GROUND = 3532.14 "
APPROXIMATE THEIRNESS OF EXCAVATION FOR WALL CONSTRUCTION = 4.0'

: TOTAL FOR ITEM = 3532.14 " × 40 + 27 = 523.3 CY ED SAY 524 CY

## ITEM 507 - STEEL PILES, HO 14x 73

· EMBERMENT DEPTH + HEIGHT ABOVE SHAPTS

TOTAL = 45 × 14.12' + (3×7.05' + 2×8.55' + 2×11.8' + 2×12.05' + 4×11.8' + 4×11.55' + 4×10.05' + 4×10.05' + 4×9.8' + 8.8' + 4×7.8' + 3×4.8')

= 1086.15' FD SAY 1090 FT.

#### ITEM 509 - EPOXY COATED REINFORCING STEEL

FROM REINFORCING STEEL LIST IN PLANS = 24,623 LB

## ITEM 511 - CLASS QC1 CONCRETE, SUBSTRUCTURE

· CONCRETE COPING

TOTAL = 2.5833' × 1.50' × 348.31' +27 = 49.99 CY => SAY 50 CY

ITEM 511 - CLASS QC1 CONCRETE, MISC: CAST-IN-PLACE CONCRETE FACING, AS PER PLAN

CAOO AREA OF FACING = 2929.33 " TOTAL FOR ITEM = 2929.33 " (10/12) +27 = 90.4 CY => SAY 91CY

# ITEM 512 - SEALING OF CONCRETE SURFACES (EPORY - UKETHANE)

\* CAOD AREA BACK FACE = 238.44 " \* COPING PERIMETER = 1.5'+2.5833'+1.5'+0.17'

\* CAOD AREA FRONT FACE = 2017.05 " = 5.75'

:. TOTAL FOR ITEM = [238.460 + 2017.050 + (5.75' × 348.31')] + 9 = 473.17 SY => SAY 473 SY

#### ESTIMATED QUANTITIES



Job MED-1	8-12.99 - K	ETAINING	44	-	a16.4
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#### ITEM 512 - TYPE 2 WATERPROOFING

· CADO AREAS → 3' WIDE @ EACH TOINT TO BUT, OF COPING MINUS 2' UP FROM TOP
OF SHAFTS

" TOTAL = (26,8" + 25,3" + 23,8" + 20,8") + 9 = 10,74 SY ED SAY ILSY

ITEM 518 - STRUCTURE DRAINAGE, MISC: MIRADRAIN 5000 DRAINAGE SYSTEM OR EQUAL

CAPO FREL = 3291.91 "

DEOVET TYPE 2 WATER PROOFING @ JOINTS = 26.80 + 25.30 + 23.80 + 20.80 = 96.70 ALSO PEOULT FOR PILES = 20" WIDTH

:. TOTAL FOR ITEM = 3291.9(5'-96.75'-(3x7.05'+2x8.55'+2x11.3'+2x12.05' +4x11.8'+4x11.55'+4x11.3'+4x11.05'+4x10.8'+4x10.05' +4x9.8'+8.8'+4x7.8'+3x6.8')x(20"/12) = 2443.960' => SAY 2445 SF

ITEM 524 - PRILLED SHAPTS, 30" PIAMETER, AS PER PLAN

TOTAL = 45 x 14.12' = 635,4' = SAY 636 FT.

ITEM 517 - RAILING, PIPE, AS PER PLAN

TOTAL = LENGTH OF WALL = 348.31 => SKY 350 FT.

ITEM 410 - RETAINING WALL, MISC: 3" TIMBER LAGGING

CAOD AREA = 3451.20 + 9 = 383,47 SY =D SMY 384 SY

ITEM 530 - SPECIAL - FORM LINER

AREA OF CAST-IN-PLACE WALL FACING =  $\underline{2926 \text{ SF}}$