

ITEM 202 11003 STRUCTURE REMOVED OVER 20 FOOT SPAN, AS PER PLAN

LUMP SUM

ITEM 202 22900 APPROACH SLAB REMOVED

25' L x 40' W x 2 x 1/9 =

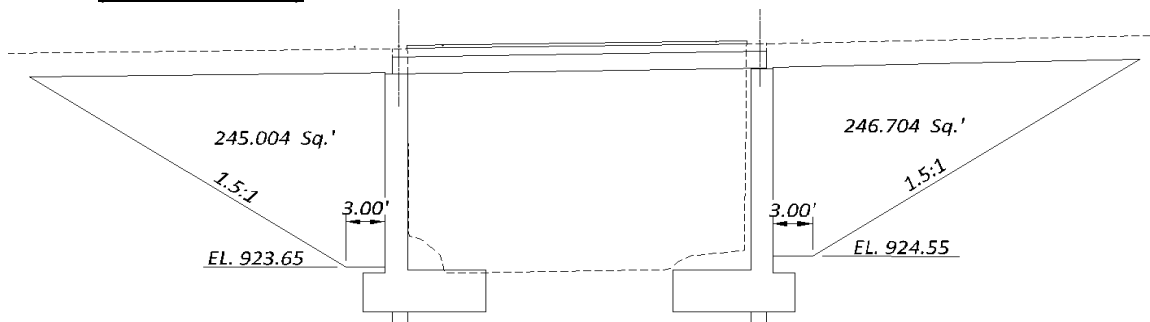
222 S.Y.

ITEM 202 23500 WEARING COURSE REMOVED

28.44' L x 40' W x 1/9 = 126.400
 2x 30.0'L x 40.0' W x 1/9 = 266.667
393.067

393 S.Y.

ITEM 503 21100 UNCLASSIFIED EXCAVATION
(AREAS BY CADD)

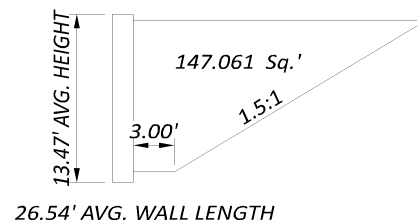


BEHIND ABUTMENTS:

(R.A.) 245.00 S.F. x 48.10'L x 1/27 = 436.46 C.Y.
 (F.A.) 246.70 S.F. x 48.53'L x 1/27 = 443.42 C.Y.

BEHIND WALLS:

4 x (147.061 S.F. x 26.54'L) x 1/27 = 578.22 C.Y.
TOTAL = 1458.11 C.Y.



1458 C.Y.

ITEM 509 10000 EPOXY COATED STEEL REINFORCEMENT

ABUTMENTS CARRIED FROM SHEET 28/28	287 LB.
SLAB CARRIED FROM SHEET 28/28	3635 LB.
<u>TOTAL =</u>	<u>3922 LB.</u>

3922 LB.

ITEM 509 200001 CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN

500 LB.

ITEM 51 31610 CLASS QC2 CONCRETE, SUPERSTRUCTURE

(AREA BY CADD)

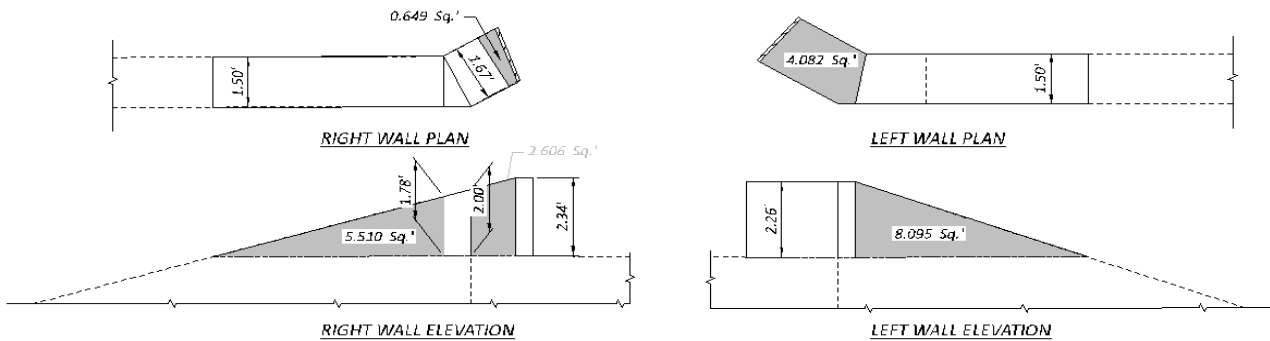
DECK SLAB:

1137.676 S.F. x 8.25" AVG. DEPTH x 1/27 = 28.9686 C.Y.

29 C.Y.

ITEM 511 44110 CLASS QC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING

(AREAS BY CADD)



REAR ABUTMENT

REAR ABUTMENT:

RIGHT WALL

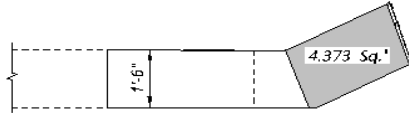
5.510 S.F. x 1.5'W = 8.2650 C.F.
 (((1.78' + 2.0'0) x 0.5) x 1.5'W) x .5 = 2.8350 C.F.
 2.606 S.F. x 1.67'W = 4.3520 C.F.
 0.649 S.F. x 2.34'H = 1.5187 C.F.
16.9707 C.F.

LEFT WALL WALL

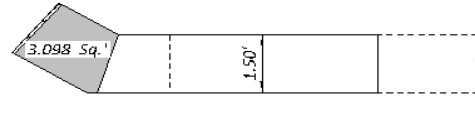
8.095 S.F. x 1.5'W = 12.1425 C.F.
 4.082 S.F. x 2.26'H = 9.22532 C.F.
21.36782 C.F.

REAR ABUTMENT TOTAL 16.9707 + 21.3678 = 38.3385 C.F. (CONT.)

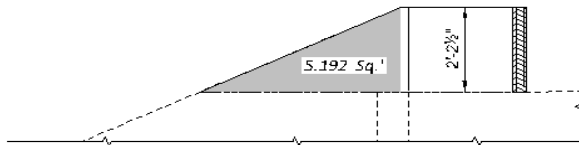
ITEM 511 44110 CLASS QC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING
(AREAS BY CADD)
(CONT.)



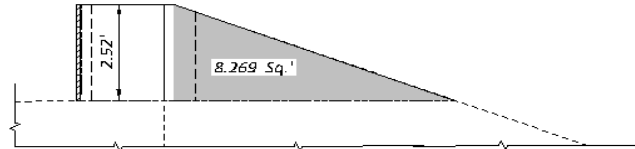
LEFT WALL PLAN



RIGHT WALL PLAN



LEFT WALL ELEVATION



RIGHT WALL ELEVATION

FORWARD ABUTMENT

FORWARD ABUTMENT:

LEFT WALL

5.192 S.F. x 1.5'W = 7.7880 C.F.

4.373 S.F. x 2.21' H = 9.6643 C.F.

17.4523 C.F.

RIGHT WALL

8.267 S.F. x 1.5'W = 12.4005 C.F.

3.098 S.F. x 2.52'H = 7.8070 C.F.

20.2075 C.F.

FORWARD ABUTMENT TOTAL 17.4523+20.2075 = 37.6598 C.F.

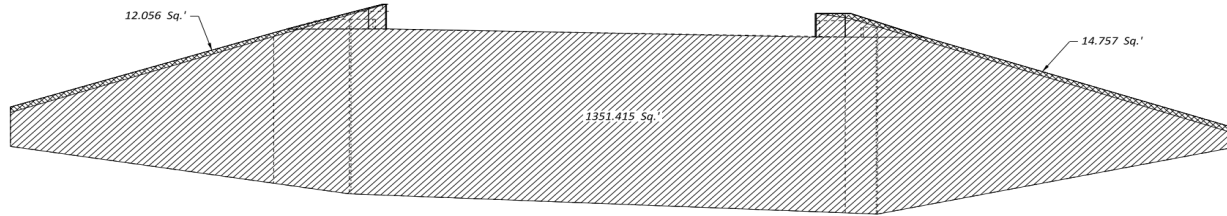
REAR ABUTMENT TOTAL CARRIED FROM SHEET 2 = 38.3385 C.F.

75.9983 C.F.

75.9983 x 1/27 = 2.8148 C.Y.

3 C.Y.

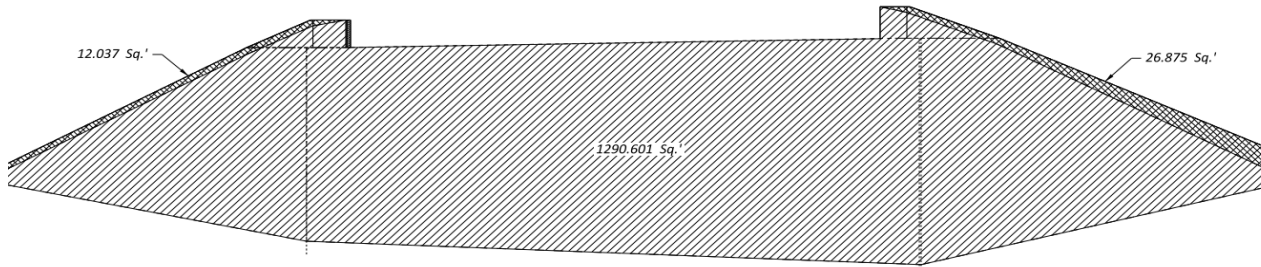
ITEM 512 10100 SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
(AREAS BY CADD)



REAR ABUTMENT

REAR ABUTMENT:

$$1351.415 \text{ S.F.} + 12.056 \text{ S.F.} + 14.757 \text{ S.F.} = 1378.228 \text{ S.F.}$$



FORWARD ABUTMENT

FORWARD ABUTMENT:

$$1290.601 \text{ S.F.} + 12.037 \text{ S.F.} + 26.875 \text{ S.F.} = 1329.513 \text{ S.F.}$$

$$13.78.23 + 1329.51 \times 1/9 = 300.8601 \text{ S.Y.}$$

301 S.Y.

ITEM 512 10600 CONCRETE REPAIR BY EPOXY INJECTION

33 S.Y.

ITEM 512 33000 TYPE 2 WATERPROOFING
(AREAS BY CADD)

REAR ABUT.

$$7.734 \text{ S.F. (LT. WALL)} + 6.979 \text{ S.F. (RT. WALL)} \times 1/9 = 1.635 \text{ S.Y.}$$

FORWARD ABUT.

$$6.720 \text{ S.F. (LT. WALL)} + 8.246 \text{ S.F. (RT. WALL)} \times 1/9 = 1.663 \text{ S.Y.}$$

$$\text{TOTAL} = 3.298 \text{ S.Y.}$$

4 S.Y.

ITEM 515 12030 PRESTRESSED CONCRETE COMPOSITE BOX BEAM BRIDGE MEMBERS,
LEVEL 1, CB17-48, 2844'

10 EA.

ITEM 516 13600 1" PREFORMED EXPANSION JOINT FILLER

REAR ABUT.

4.25 S.F. (LT. WALL) + 4.40 S.F. (RT. WALL) = 8.65 S.F.

FORWARD ABUT.

4.15 S.F. (LT. WALL) + 4.73 S.F. (RT. WALL) = 8.88 S.F.

17.53 S.F.

18 SF

ITEM 516 14020 SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL

2 x 40' L = 80 FT.

80 FT.

ITEM 516 41100 1/8" PREFORMED BEARING PAD

20 EA.

ITEM 516 44001 ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD
PLATE (NEOPRENE), AS PER PLAN

40 EA.

ITEM 517 70100 RAILING (THREE STEEL TUBE BRIDGE RAILING)

2 x (8.968 + 18.0 + 8.968) = 71.872 FT.

72 FT.

**ENGINEERING ASSOCIATES, INC.
CONSULTING ENGINEERS**

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TELEPHONE: (330) 345-6556

FAX: (330) 345-8077

PROJECT: TRU-46

PROJ. NO.: 21079 PG.: 5 OF

COMP. BY: TAC

DATE: _____

CHKD. BY: _____

DATE: _____

SUBJECT: BRIDGE NO. TRU-46-1120

ESTIMATED QUANTITIES SFN: 7802625

ITEM 518 21200 POROUS BACKFILL WITH GEOTEXTILE FABRIC
(AREAS BY CADD)

REAR ABUTMENT