

PLOTTED BY: d\astovk
 PLOTTED FROM: j:\PROJECTS\120601\DCN\20601\cab.dgn
 20601CGB.dgn
 PLOT SUBMITTED: 03-SEP-1999 16:11

ITEM 203-EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION

15" DEPTH - 1.25'
 WIDTH - 2'
 LENGTH - 110'
 VOLUME - 275 C.F. = 10 C.Y.

ITEM 301-BITUMINOUS AGGREGATE BASE, PG64-22

6" DEPTH - 0.5'
 WIDTH - 2'
 LENGTH - 110'
 VOLUME - 110 C.F. = 4.1 C.Y.

ITEM 304-AGGREGATE BASE

6" DEPTH - 0.5'
 WIDTH - 2'
 LENGTH - 110'
 VOLUME - 110 C.F. = 4.1 C.Y.

ITEM 407-TACK COAT

WIDTH - 2'
 LENGTH - 110'
 AREA - 220 S.F. = 24.4 S.Y.

 APPLICATION - 0.1 GAL/S.Y.
 RATE

 VOLUME - 0.1 x 24.4 = 2.4 GAL

ITEM 448-ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22

1 3/4" DEPTH - 0.15'
 WIDTH - 2'
 LENGTH - 110'
 VOLUME - 33 C.F. = 1.2 C.Y.

ITEM 448-ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22

1/4" DEPTH - 0.10'
 WIDTH - 2'
 LENGTH - 110'
 VOLUME - 22 C.F. = 0.8 C.Y.

ITEM 518-POROUS BACKFILL

SECTIONS 3 THRU 22 (SEE SHEET 8)
 DEPTH - 8'
 WIDTH - (11.78"-0.435"-7.5")/12 = 0.32'
 LENGTH - 147'
 VOLUME - 376 C.F. = 14 C.Y.

SECTIONS 1 AND 2 (SEE SHEET 8)
 DEPTH - 8'
 WIDTH - 1'
 LENGTH - 19'
 VOLUME - 156 C.F. = 6 C.Y.

TOTAL VOLUME = 20 C.Y.

ITEM 521-BRIDGE TIMBER, AS PER PLAN

8" WIDTH - 0.67'
 HEIGHT - 8'
 LENGTH - 166'
 VOLUME - 889.76 C.F.

1 MFBM = [(1"/12) x 1' x 1'] x 1000 = 83.33

VOLUME = 889.76 C.F. / 83.33 = 10.7 MFBM

ITEM 863-STRUCTURAL STEEL, MISC.: RETAINING WALL STEEL

HP12X53 BEAMS:
 TOTAL LENGTH - (10' + 9.17') x 2 = 38.34'
 UNIT WEIGHT - 53 LBS/L.F.
 WEIGHT - 2032 LBS

HP12X53 SPACERS:
 TOTAL LENGTH - (6 EA) x 1' = 6'
 UNIT WEIGHT - 53 LBS/L.F.
 WEIGHT - 318 LBS

3/4" STEEL PLATES:
 NUMBER - 2 = 6'
 3/4" THICKNESS - 0.0625' = 53 LBS/L.F.
 WIDTH - 1' = 318 LBS
 LENGTH - 8'
 VOLUME - 1 C.F.

UNIT WEIGHT = 490 LBS/C.F.

WEIGHT = 490 x 1 = 490 LBS

TOTAL WEIGHT = 2840 LBS

CALCULATIONS

LAK-86-1.71

CALCULATED
 JRC
 CHECKED
 LDH