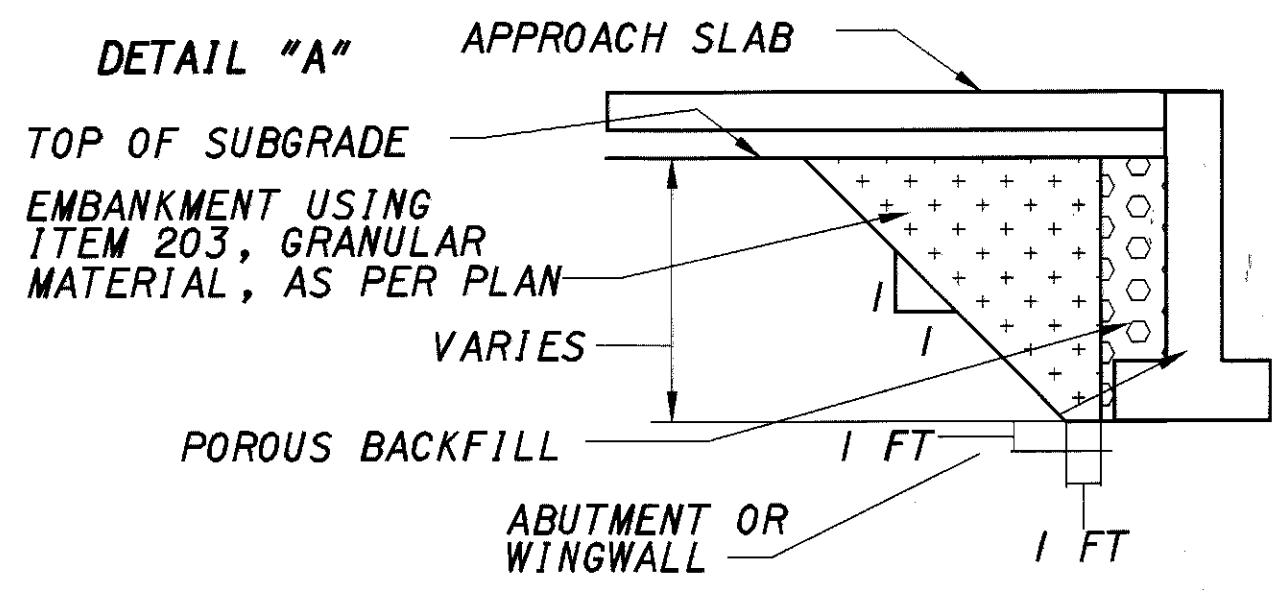


12035CCA.DGN

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Drawn By: Date: 04-13-96 (14:23)



**ITEM 448 - 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22**  
 Sta. 25+36.85 to Sta. 25+55.61 Lt.  
 Cadd Measured Area = 127.60 Sq. Ft.  
 127.60 (1.25/12) (1/27) = 0.49 CU. YD.

Sta. 25+63.91 to Sta. 25+84.68 Rt.  
 Cadd Measured Area = 142.15 Sq. Ft.  
 142.15 (1.25/12) (1/27) = 0.55 CU. YD.

Sta. 25+55.61 to Sta. 27+00 Lt.  
 144.39 (10) (1.25/12) (1/27) = 5.57 CU. YD.

Sta. 25+84.68 to Sta. 27+00 Rt.  
 115.32 (10) (1.25/12) (1/27) = 4.45 CU. YD.

Sta. 27+00 to Sta. 28+02.96  
 102.96 (44) (1.25/12) (1/27) = 17.48 CU. YD.

Sta. 31+52.90 to Sta. 33+25  
 172.10 (44) (1.25/12) (1/27) = 29.21 CU. YD.

Sta. 33+25 to Sta. 33+70.37 Lt.  
 45.37 (10) (1.25/12) (1/27) = 1.75 CU. YD.

Sta. 33+25 to Sta. 33+94.66 Rt.  
 69.66 (10) (1.25/12) (1/27) = 2.69 CU. YD.

Sta. 33+70.37 to 34+10.09 Lt.  
 Cadd Measured Area = 579.59 Sq. Ft.  
 579.59 (1.25/12) (1/27) = 2.24 CU. YD.

Sta. 33+94.66 to Sta. 34+12.94 Rt.  
 Cadd Measured Area = 127.68 Sq. Ft.  
 127.68 (1.25/12) (1/27) = 0.49 CU. YD.

**TOTAL ITEM 448 = 64.92 CU. YD.**  
 USE 65 CU. YD.

\*\*\*ITEM 448 SQ. FT. AREA FOR CALCULATING ITEMS 407 TACK COAT AND 407 TACK COAT FOR INTERMEDIATE COURSE = 16,827 SQ. FT. \*\*\*

**ITEM 448 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22**  
 Sta. 25+36.85 to Sta. 25+55.61 Lt.  
 Cadd Measured Area = 127.60 Sq. Ft.  
 127.60 (1.75/12) (1/27) = 0.69 CU. YD.

Sta. 25+63.91 to Sta. 25+84.68 Rt.  
 Cadd Measured Area = 142.15 Sq. Ft.  
 142.15 (1.75/12) (1/27) = 0.77 CU. YD.

Sta. 25+55.61 to Sta. 27+00 Lt.  
 144.39 (10) (1.75/12) (1/27) = 7.80 CU. YD.

Sta. 25+84.68 to Sta. 27+00 Rt.  
 115.32 (10) (1.75/12) (1/27) = 6.23 CU. YD.

Sta. 27+00 to Sta. 28+02.96  
 102.96 (44) (1.75/12) (1/27) = 24.47 CU. YD.

Sta. 31+52.90 to Sta. 33+25  
 172.10 (44) (1.75/12) (1/27) = 40.90 CU. YD.

Sta. 33+25 to Sta. 33+70.37 Lt.  
 45.37 (10) (1.75/12) (1/27) = 2.45 CU. YD.

Sta. 33+25 to Sta. 33+94.66 Rt.  
 69.66 (10) (1.75/12) (1/27) = 3.76 CU. YD.

Sta. 33+70.37 to Sta. 34+10.09 Lt.  
 Cadd Measured Area = 579.59 Sq. Ft.  
 579.59 (1.75/12) (1/27) = 3.13 CU. YD.

Sta. 33+94.66 to Sta. 34+12.94 Rt.  
 Cadd Measured Area = 127.68 Sq. Ft.  
 127.68 (1.75/12) (1/27) = 0.69 CU. YD.

**TOTAL ITEM 448 = 90.89 CU. YD.**  
 USE 91 CU. YD.

**ITEM 301 - 8" BITUMINOUS AGGREGATE BASE, PG64-22**  
 Sta. 25+36.85 to Sta. 25+55.61 Lt.  
 Cadd Measured Area = 127.60 Sq. Ft.  
 [127.60+(18.76) (0.67)] (8/12) (1/27) 3.46 CU. YD.

Sta. 25+63.91 to Sta. 25+84.68 Rt.  
 Cadd Measured Area = 142.15 Sq. Ft.  
 [142.15+(20.77) (0.67)] (8/12) (1/27) 3.85 CU. YD.

Sta. 25+55.61 to Sta. 27+50 Lt.  
 194.39 (10.67) (8/12) (1/27) = 51.21 CU. YD.

Sta. 25+84.68 to Sta. 27+50 Rt.  
 165.32 (10.67) (8/12) (1/27) = 43.55 CU. YD.

Sta. 27+50 to Sta. 28+02.96  
 52.96 (45.33) (8/12) (1/27) = 59.28 CU. YD.

Sta. 31+52.90 to Sta. 32+75  
 122.10 (45.33) (8/12) (1/27) = 136.66 CU. YD.

Sta. 32+75 to Sta. 33+70.37 Lt.  
 95.37 (10.67) (8/12) (1/27) = 25.13 CU. YD.

Sta. 32+75 to Sta. 33+94.66 Rt.  
 119.66 (10.67) (8/12) (1/27) = 31.53 CU. YD.

Sta. 33+70.37 to Sta. 34+10.09 Lt.  
 Cadd Measured Area = 579.59 Sq. Ft.  
 [579.59+(18.96+30.77)(0.67)](8/12)(1/27) = 15.13 CU. YD.

Sta. 33+94.66 to Sta. 34+12.94 Rt.  
 Cadd Measured Area = 127.68 Sq. Ft.  
 [127.68+(18.28) (0.67)] (8/12) (1/27) 3.46 CU. YD.

**TOTAL ITEM 301 = 373.26 CU. YD.**  
 USE 373 CU. YD.

**ITEM 408 - BITUMINOUS PRIME COAT**  
 Sta. 25+36.85 to Sta. 25+55.61 Lt.  
 Cadd Measured Area = 127.60 Sq. Ft.  
 [127.60+(18.76) (0.67)] (1/9) (0.40) = 6.23 GAL.

Sta. 25+63.91 to Sta. 25+84.68 Rt.  
 Cadd Measured Area = 142.15 Sq. Ft.  
 [142.15+(20.77) (0.67)] (1/9) (0.40) = 6.94 GAL.

Sta. 25+55.61 to Sta. 27+50 Lt.  
 194.39 (10.67) (1/9) (0.40) = 92.18 GAL.

Sta. 25+84.68 to Sta. 27+50 Rt.  
 165.32 (10.67) (1/9) (0.40) = 78.40 GAL.

Sta. 27+50 to Sta. 28+02.96  
 52.96 (45.33) (1/9) (0.40) = 106.70 GAL.

Sta. 31+52.90 to Sta. 32+75  
 122.10 (45.33) (1/9) (0.40) = 245.99 GAL.

Sta. 32+75 to Sta. 33+70.37 Lt.  
 95.37 (10.67) (1/9) (0.40) = 45.23 GAL.

Sta. 32+75 to Sta. 33+94.66 Rt.  
 119.66 (10.67) (1/9) (0.40) = 56.75 GAL.

Sta. 33+70.37 to Sta. 34+10.09 Lt.  
 Cadd Measured Area = 579.59 Sq. Ft.  
 [579.59+(18.96+30.77) (0.67)] (1/9) (0.40) = 27.24 GAL.

Sta. 33+94.66 to Sta. 34+12.94 Rt.  
 Cadd Measured Area = 127.68 Sq. Ft.  
 [127.68+(18.28) (0.67)] (1/9) (0.40) = 6.22 GAL.

**TOTAL ITEM 408 = 671.88 GAL.**  
 USE 672 GAL.

**ITEM 304 - 6" AGGREGATE BASE**  
 Sta. 25+36.85 to Sta. 25+55.61 Lt.  
 Cadd Measured Area = 127.60 Sq. Ft.  
 [127.60+(18.76) (1.08)] (6/12) (1/27) = 2.74 CU. YD.

Sta. 25+63.91 to Sta. 25+84.68 Rt.  
 Cadd Measured Area = 142.15 Sq. Ft.  
 [142.15+(20.77) (1.08)] (6/12) (1/27) = 3.05 CU. YD.

Sta. 25+55.61 to Sta. 27+50 Lt.  
 194.39 (11.08) (6/12) (1/27) = 39.89 CU. YD.

Sta. 25+84.68 to Sta. 27+50 Rt.  
 165.32 (11.08) (6/12) (1/27) = 33.92 CU. YD.

Sta. 27+50 to Sta. 28+02.96  
 52.96 (46.17) (6/12) (1/27) = 45.28 CU. YD.

Sta. 31+52.90 to Sta. 32+75  
 122.10 (46.17) (6/12) (1/27) = 104.40 CU. YD.

Sta. 32+75 to Sta. 33+70.37 Lt.  
 95.37 (11.08) (6/12) (1/27) = 19.57 CU. YD.

Sta. 32+75 to Sta. 33+94.66 Rt.  
 119.66(11.08) (6/12) (1/27) = 24.55 CU. YD.

Sta. 33+70.37 to Sta. 34+10+09 Lt.  
 Cadd Measured Area = 579.59 Sq. Ft.  
 [579.59+(18.96+30.77)(1.08)](6/12)(1/27) = 11.73 CU. YD.

Sta. 33+94.66 to Sta. 34+12.94 Rt.  
 Cadd Measured Area = 127.68 Sq. Ft.  
 [127.68+(18.28) (1.08)] (6/12) (1/27) = 2.73 CU. YD.

Sta. 28+02.96 to Sta. 28+27.96  
 25 (47) (6/12) (1/27) = 21.76 CU. YD.

Sta. 31+27.90 to Sta. 31+52.90  
 25 (47) (6/12) (1/27) = 21.76 CU. YD.

**TOTAL ITEM 304 = 331.38 CU. YD.**  
 USE 331 CU. YD.

**ITEM 203 - SUBGRADE COMPACTION**  
 Sta. 25+36.85 to Sta. 25+55.61 Lt.  
 Cadd Measured Area = 127.60 Sq. Ft.  
 127.60 (1/9) = 14.18 SQ. YD.

Sta. 25+63.91 to Sta. 25+84.68 Rt.  
 Cadd Measured Area = 142.15 Sq. Ft.  
 142.15 (1/9) = 15.79 SQ. YD.

Sta. 25+55.61 to Sta. 27+50 Lt.  
 194.39 (10) (1/9) = 215.99 SQ. YD.

Sta. 25+84.68 to Sta. 27+50 Rt.  
 165.32 (10) (1/9) = 183.69 SQ. YD.

Sta. 27+50 to Sta. 28+02.96  
 52.96 (44) (1/9) = 258.95 SQ. YD.

Sta. 31+52.90 to Sta. 32+75  
 122.10 (44) (1/9) = 596.93 SQ. YD.

Sta. 32+75 to Sta. 33+70.33 Lt.  
 95.37 (10) (1/9) = 105.97 SQ. YD.

Sta. 32+75 to Sta. 33+94.66 Rt.  
 119.66 (10) (1/9) = 132.96 SQ. YD.

Sta. 33+70.37 to Sta. 34+10.09 Lt.  
 Cadd Measured Area = 579.59 Sq. Ft.  
 579.59 (1/9) = 64.40 SQ. YD.

Sta. 33+94.66 to Sta. 34+12.94 Rt.  
 Cadd Measured Area = 127.68 Sq. Ft.  
 127.68 (1/9) = 14.19 SQ. YD.

Sta. 28+02.96 to Sta. 28+27.96  
 25 (45) (1/9) = 125.00 SQ. YD.

Sta. 31+27.90 to Sta. 31+52.90  
 25 (45) (1/9) = 125.00 SQ. YD.

**TOTAL ITEM 203 = 1826.05 SQ. YD.**  
 USE 1826 SQ. YD.

**ITEM 448 - 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG64-22 (UNDER GUARDRAIL) (4'-0" WIDE)**  
 [4(12.5)+4(225)](4)(3/12)(1/27) 35.16 CU. YD.  
 USE 35 CU. YD.

**ITEM 611 - REINFORCED CONCRETE APPROACH SLAB, (T=15"), AS PER PLAN**  
 2(25)(45)(1/9) = 245.00 SQ. YD.  
 deduct for bridge parapet  
 -0.50(4)(15)(1/9) = -3.33 SQ. YD.  
**TOTAL ITEM 611 = 246.67 SQ. YD.**  
 USE 247 SQ. YD.

**ITEM 254 - PAVEMENT PLANING, BITUMINOUS (T=3")**  
 Sta. 27+00 to Sta. 27+50  
 50 (24) (1/9) = 133.33 SQ. YD.

Sta. 32+75 to Sta. 33+25  
 50 (24) (1/9) = 133.33 SQ. YD.

**TOTAL ITEM 254 = 266.66 SQ. YD.**  
 USE 267 SQ. YD.

**ITEM 407 - TACK COAT**  
 \*\*\*FROM ITEM 448 SQ. FT. AREA 16,827 SQ. FT.  
 (16,827) (1/9) (0.075) = 141 GAL.  
**TOTAL ITEM 407 = 141 GAL.**

**ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE**  
 (16,827) (1/9) (0.05) = 94 GAL.  
**TOTAL ITEM 407 = 94 GAL.**

**ITEM 601 - SLOPE PROTECTION, MISC.: GROUT FILLED FABRIC MATS**  
 Rear Abutment 1/2(58+77)(42)(1/9) = 315.00 SQ. YD.  
 Forward Abutment 1/2(72+58)(30.5)(1/9) = 220.28 SQ. YD.  
**TOTAL ITEM 601 = 535.28 SQ. YD.**  
 USE 535 SQ. YD.

**ITEM 626 - BARRIER REFLECTORS, TYPE B2 (ON BRIDGE DEFLECTOR PARAPET)**  
 13 on each side @ 25' = 26 EACH

**ITEM 203 - EMBANKMENT USING GRANULAR MATERIAL, AS PER PLAN (SEE DETAIL "A" THIS SHEET)**  
 2(5+7+47)[(1x8.5)+(8.5x8.5x1/2)](1/27) = 195.03 CU. YD.  
 USE 195 CU. YD.

**ITEM 659 - SEEDING AND MULCHING**  
 Cadd Measured Area 29596 Sq. Ft. x 1/9 = 3288.45 SQ. YD.  
 USE 3288 SQ. YD.

**ITEM 207 - TEMPORARY SEEDING AND MULCHING**  
 0.20 x 3288 = 657.60 SQ. YD.  
 USE 658 SQ. YD.

**ITEM 659 - WATER**  
 240/1000(29596)(1/1000) = 7.1 M. GAL.  
 USE 7 M. GAL.

240/1000(0.2)(29596)(1/1000) = 1.4 M. GAL.  
 USE 2 M. GAL.

**ITEM 659 - COMMERCIAL FERTILIZER**  
 10/1000(29596)(1/2000) = 0.1480 TONS  
 USE 0.15 TONS

10/1000(0.2)(29596)(1/2000) = 0.0296 TONS  
 USE 0.03 TONS

**ITEM 659 - REPAIR SEEDING AND MULCHING**  
 0.05 x 3288 = 164.4 SQ. YD.  
 USE 164 SQ. YD.

\* DENOTES QUANTITY CARRIED TO GENERAL NOTES  
 \*\* DENOTES QUANTITY CARRIED TO PLAN AND PROFILE SHEETS

CALCULATED  
APG  
CHECKED  
GTA

CALCULATIONS

LAK-90-26.87