DISTRICT 10
PLANNING & ENGINEERING

CALC. BY: _____ CHKD. BY: _____

CNTY. HOC RT. 56 SECT. 569 SHEET 1 OF 3

ITEM 202 - WEARING COURSE REMOVED

(27.61')(28.25')/9 = 86.66 SQ YD

ITEM 511 - CLASS QC2 CONCRETE, SUPERSTRUCTURE

(33.73')(31')(1.90)/27 = 73.58 CY

(3.40')(1.73')(2.25')/27 = 0.49 CY

½(1.50 + 1.76')(18.48')(2.25')/27 = 2.51 CY

½(1.76' + 1.51')(17.32')(2.25')/27 = 2.36 CY

(3.41')(1.73')(2.25')/27 = 0.49 CY

(3.40')(1.73')(2.25')/27 = 0.49 CY

½(1.50' + 1.80')(17.32')(2.25')/27 = 2.38 CY

½(1.80' + 1.59')(18.48')(2.25')/27 = 2.61 CY

(3.49')(1.73')(2.25')/27 = 0.50 CY

85.41 CU YD

ITEM 511 - CLASS QC1 CONCRETE, ABUTMENT INCLUDING FOOTING

REAR: (3')(3')(54.33')/27 = 18.11 CY

½(3.74' + 5.63')(5.67')(2.25')/27 = 2.21 CY

(5.63')(2.28')(2.25')/27 = 1.07 CY

(2.23')(39.45')(2.25')/27 = 7.33 CY

(5.64')(1.28')(2.25')/27 = 0.60 CY

½(5.64' + 3.75')(5.67')(2.25')/27 = 2.22 CY

31.54 CY

FWD: (3')(3')(54.33')/27 = 18.11 CY

½(3.74' + 5.63')(5.67')(2.25')/27 = 2.21 CY

(5.63')(2.29')(2.25')/27 = 1.07 CY

(2.23')(39.45')(2.25')/27 = 7.33 CY

(5.72')(1.26')(2.25')/27 = 0.60 CY

½(5.72' + 3.85')(5.67')(2.25')/27 = 2.26 CY

31.58 CY

TOTAL: 31.54 + 31.58 = 63.12 CU YD

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CALC. BY: _____ CHKD. BY: _____

CNTY. HOC RT. 56 SECT. 5.69 SHEET 2 OF 3

ITEM 512 - SEALING OF CONCRETE SURFACES

SUPER : (1.90' + 0.50')(29.69') / 9 = 7.92 × 2 SIDES = 15.84 SY

(3.40')(1.73') / 9 = 0.65 SY

½(1.50' + 1.76')(18.48') / 9 = 3.35 SY

½(1.76' + 1.51')(17.32') / 9 = 3.15 SY

(3.45')(1.73') / 9 = 0.66 SY

(1.73')(2.25') / 9 = 0.43 SY

(1.73')(2.25') / 9 = 0.43 SY

(3.40')(1.73') / 9 = 0.65 SY

½(1.50' + 1.80')(17.32') / 9 = 3.18 SY

½(1.80' + 1.59')(18.48') / 9 = 3.48 SY

(3.49')(1.73') / 9 = 0.67 SY

(1.73')(2.25') / 9 = 0.43 SY

(1.73')(2.25') / 9 = 0.43 SY

SUPER TOTAL = 33.35 SQ YD

REAR ABUT : (2.50')(2.25') / 9 = 0.63 SY

½(2.50' + 4.39')(5.67') / 9 = 2.17 SY

(4.39')(3.03') / 9 = 1.47 SY

(5.97')(2.25') / 9 = 1.49 SY

(2.28')(2.25') / 9 = 0.57 SY

(7.39')(1.0') / 9 = 0.82 SY

(1.00')(39.45') / 9 = 4.38 SY

(4.40')(0.72') / 9 = 0.35 SY

½(4.40' + 2.51')(5.67') / 9 = 2.8 SY

(2.51')(2.25') / 9 = 0.63 SY

(5.97')(2.25') / 9 = 1.49 SY

(1.27')(2.25') / 9 = 0.32 SY

(7.59')(1') / 9 = 0.84 SY

17.34 SY

FWD ABUT : (2.50')(2.25') / 9 = 0.63 SY

½(2.50' + 4.39')(5.67') / 9 = 2.17 SY

(4.39')(3.03') / 9 = 1.48 SY

(5.97')(2.25') / 9 = 1.49 SY

(2.29')(2.25') / 9 = 0.57 SY

(7.40')(1.0') / 9 = 0.82 SY

(1.0')(39.45') / 9 = 4.38 SY

(4.48')(0.71') / 9 = 0.35 SY

½(4.48' + 2.61')(5.67') / 9 = 2.23 SY

(2.61')(2.25') / 9 = 0.65 SY

(5.97')(2.25') / 9 = 1.49 SY

(1.26')(2.25') / 9 = 0.32 SY

(7.58')(1.0') / 9 = 0.84 SY

17.42 SY

TOTAL = 34.76 SQ YD

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CNTY. HOC RT. 56 SECT. 5.69 SHEET 3 OF 3

ITEM 516 - 1/2" PEJF

REAR: (0.75')(39.26') = 29.45 SF

FWD: (0.75')(39.26') = 29.45 SF

58.90 SQ FT

ITEM 516 - 1" PEJF

REAR: (3.40')(2.60') = 8.84 SF

(0.67')(39.26') = 26.30 SF

(3.41')(2.60') = 8.87 SF

44.01 SF

FWD: (3.40')(2.60') = 8.84 SF

(0.67')(39.26') = 26.30 SF

(3.49')(2.60') = 9.07 SF

44.21 SF

TOTAL = 44.01 + 44.21 = 88.21 SQ FT

ITEM 516 - NYLON REINFORCED NEOPRENE SHEETING

REAR: (3')(54.33') = 162.99 SF

(3')(4.90') = 14.70 SF

(3')(4.91') = 14.73 SF

192.42 SF

FWD: (3')(54.33') = 162.99 SF

(3')(4.90') = 14.70 SF

(3')(4.99') = 14.97 SF

192.66 SF

TOTAL = 192.42 + 192.66 = 385.08 SQ FT

ITEM 518 - POROUS BACKFILL WITH GEOTEXTILE FABRIC

REAR:

1/2 (2.29' + 4.18')(5.67')(2')/27 = 1.36 CY

(4.18')(3.45')(2')/27 = 1.07 CY

1/2 (4.18' + 4.44')(18.48')(2')/27 = 5.90 CY

1/2 (4.44' + 4.19')(17.32')(2')/27 = 5.54 CY

(4.19')(3.75')(2')/27 = 1.16 CY

1/2 (4.19' + 2.30')(5.67')(2')/27 = 1.36 CY

16.39 CY

FWD:

1/2 (2.15' + 4.04')(5.67')(2')/27 = 1.30 CY

(4.04')(3.46')(2')/27 = 1.04 CY

1/2 (4.04' + 4.34')(17.32')(2')/27 = 5.38 CY

1/2 (4.34' + 4.13')(18.48')(2')/27 = 5.80 CY

(4.13')(3.74')(2')/27 = 1.14 CY

1/2 (4.13' + 2.26')(5.67')(2')/27 = 1.34 CY

16.00 CY

TOTAL = 16.39 + 16.00 = 32.39 CU YD

ITEM 526 - REINFORCED CONCRETE APPROACH SLABS

(15')(31')/9 = 51.67 × 2 = 103.34 SQ YD