CALCULATIONS

* DENOTES QUANTITIES PAID FOR 100% BY THE CITY OF MENTOR.

DESCRIPTION	QUAN.	UNIT
ITEM 301 – 10" BITUMINOUS AGGREGATE BASE, AC–20		
STATE ROUTE 306:		
SHEET NO. 11		
STA. 26+00 TO 27+00, RT.; = 100 L.F. x 4.25'(Avg. Width) = 425 S.F.		
STA. 27+00 TO 27+75, RT.; = 75 L.F. x 6.25'(Avg. Width) = 469 S.F.		
STA. 27+75 TO 28+05, RT.; = 32 L.F. x 3.5'(Avg. Width) = 112 S.F.		
STA. 29+10 TO 29+37, RT.; = 35 L.F. x 4.25'(Avg. Width) = 149 S.F.		
STA. 29+37 TO 31+00, RT. = 163 L.F. x 8.5'(Avg. Width) = 1384 S.F.		
SHEET NO. 12		
STA. 31+00 TO 37+00, RT.; = 600 L.F. x 9.8'(Avg. Width) = 5880 S.F.		
ADD FOR DRIVE @ STA. 34+09; (Planimetered) = 842 S.F.		
SHEET NO. 13		
STA. 37+00 TO 43+00, RT.; = 600 L.F. x 7.7'(Avg. Width) = 4620 S.F.		
ADD FOR DRIVE @ STA. 41+78; (Planimetered) = 965 S.F.		
SHEET NO. 14		
STA, 43+00 TO 45+15, RT.; = 215 L.F. x 3.2'(Avg. Width) = 688 S.F.		
TOTAL = 15,534 S.F.		
15,534 S.F. x 0.833' ÷ 27 = 479 C.Y.	479	C.Y.
ITEM 305 – 9" CONCRETE BASE		
STATE ROUTE 306:		
STA. 39+05 TO 41+39, LT.; = 250 L.F. x 3.75'(Avg. Width) = 938 S.F.		
938 S.F. ÷ 9 = 104 S.Y.	104	S.Y.
INDUSTRIAL PARK BOULEVARD: (100% CITY OF MENTOR)		
65 L.F. x 5.5'(Avg. Width) = 358 S.F.		
358 S.F. ÷ 9 = 39.7 S.Y.	* 40	S.Y.
ITEM 310 – 3" SUBBASE, TYPE II, AS PER PLAN		
INDUSTRIAL PARK BOULEVARD: (100% CITY OF MENTOR)		
STA. 5+75 TO 6+25, RT.; = 50 L.F. x 7'(Avg. Width) = 350 S.F.		
STA. 6+25 TO 9+00, RT.; = 275 L.F. x 14' = 3850 S.F.		
STA. 9+00 TO 9+56, RT.; = 56 L.F. x 11.5'(Avg. Width) = 644 S.F.		
TOTAL = 4844 S.F.		
4844 S.F. x .25' ÷ 27 = 44.9 C.Y.	* 45	C.Y.

DESCRIPTION	QUAN.	UNIT
ITEM 203 – SUBGRADE COMPACTION		
STATE ROUTE 306:		
AREA FROM ITEM 301 = 15,534 S.F.		
AREA FROM ITEM 305 = 938 S.F.		
16,472 S.F.		
16,472 S.F. ÷ 9 = 1830 S.Y.	1830	S.Y.
INDUSTRIAL PARK BOULEVARD: (100% CITY OF MENTOR)		
AREA FROM ITEM 305 = 358 S.F.		
AREA FROM ITEM 310 = 4844 S.F.		
5202 S.F.		
5202 S.F. ÷ 9 = 578 S.Y.	* 578	S.Y.
ITEM 402 – 1¾" ASPHALT CONCRETE, AC–20		
STATE ROUTE 306:		
AREA FROM ITEM 301; = 15,534 S.F.		
ADD AREA FROM STA. 39+05 TO 41+39, LT.; = 250 L.F. x 3.75'(Avg. Width) = 938 S.F.		
TOTAL = 16,472 S.F.		
16,472 S.F. x 0.146' ÷ 27 = 89 C.Y.	89	C.Y.
INDUSTRIAL PARK BOULEVARD: (100% CITY OF MENTOR)		
65 L.F. x 5'(Avg. Width) = 325 S.F.		
325 S.F. x 0.146' ÷ 27 = 1.8 C.Y.	* 2	C.Y.
ITEM 404 – 1¼" ASPHALT CONCRETE, AC–20		
STATE ROUTE 306:		
AREA FROM ITEM 402 = 16,472 S.F.		
16,472 S.F. x 0.104' ÷ 27 = 63 C.Y.	63	C.Y.
INDUSTRIAL PARK BOULEVARD: (100% CITY OF MENTOR)		
AREA FROM ITEM 402 = 325 S.F.		
325 S.F. x 0.104' ÷ 27 = 2 C.Y.	* 2	C.Y.
ITEM 407 – TACK COAT		
STATE ROUTE 306:		
AREA FROM STA. 39+05 TO 41+39, LT. = 938 S.F.		
938 S.F. ÷ 9 x .10 GAL./S.Y. = 10 GAL.	10	GAL.
INDUSTRIAL PARK BOULEVARD: (100% CITY OF MENTOR)		
AREA FROM ITEM 402 = 325 S.F.		
325 S.F. ÷ 9 x .10 GAL./S.Y. = 4 GAL.	* 4	GAL.

DESCRIPTION	QUAN.	UNIT
ITEM 452 – 9" PLAIN CONCRETE PAVEMENT		
INDUSTRIAL PARK BOULEVARD: (100% CITY OF MENTOR)		
AREA FROM ITEM 310 = 4844 S.F.		
4844 S.F. ÷ 9 = 539 S.Y.	* 539	S.Y.
ITEM 608 – 4" CONCRETE WALK		
STATE ROUTE 306:		
STA. 26+00 TO 43+55, RT.; = 1540 L.F. x 5' = 7700 S.F.		
SUBTRACT AREA OF ITEM 452 IN WALK AREA = –1525 S.F.		
STA. 28+52 TO 44+30, LT.; = 1431 L.F. x 5' = 7155 S.F.		
SUBTRACT AREA OF EXISTING DRIVES = –1450 S.F.		
11,880 S.F.	11,880	S.F.
ITEM 609 – CURB, TYPE 2–B		
STATE ROUTE 306: STA. 39+05 TO 41+39, LT. = 250 L.F.	250	L.F.
INDUSTRIAL PARK BOULEVARD: (100% CITY OF MENTOR) = 65 L.F.	* 65	L.F.
ITEM 609 – CURB, TYPE 3A		
INDUSTRIAL PARK BOULEVARD: (100% CITY OF MENTOR)		
STA. 5+75 TO 9+56, RT. = 382 L.F.	* 382	L.F.
ITEM 609 – CURB, TYPE 6		
STATE ROUTE 306:		
STA. 26+00 TO 28+05, RT. = 208 L.F.		
STA. 29+10 TO 45+15, RT. = 1614 L.F.		
SUBTRACT FOR DRIVE @ STA. 34+90, RT. = – 10 L.F.		
ADD FOR DRIVE @ STA. 41+78, RT. = 10 L.F.		
STA. 43+75 TO 44+30, LT. = 150 L.F. (CURB AROUND ISLAND)		
TOTAL = 1972 L.F.	1972	L.F.
ITEM 605 – 4" SHALLOW PIPE UNDERDRAIN, AS PER PLAN		
INDUSTRIAL PARK BOULEVARD: (100% CITY OF MENTOR)		
SAME AS ITEM 609–CURB, TYPE 3A = 382 L.F.	* 382	L.F.

THESE QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

STATE ROUTE 306