

**EARTHWORK SUMMARY (FOR INFORMATION ONLY)**

EARTH EXCAVATION	973 C.Y.
* FURNISHED EXCAVATION	12,333 C.Y.
BORROW	TOTAL 11,360 C.Y.
** TOP SOIL EXCAVATION	6,027 C.Y.
*** TOP SOIL PLACEMENT	1,669 C.Y.
WASTE TOPSOIL	SUB-TOTAL 4,358 C.Y.
WASTE MATERIAL FROM SEWER TRENCHES	140 C.Y.
TOTAL WASTE	TOTAL 4,498 C.Y.

\* INCLUDES 20% SHRINKAGE  
 \*\* TOPSOIL EXCAVATION LIMITS ARE FROM:  
 LT. & RT. STA. 11+00.00 TO LT. & RT. STA. 32+41.67 (W. COURTLAND ST.)  
 RT. STA. 19+41.00 TO RT. STA. 28+33.00 (VETERANS RD.)  
 \*\*\* INCLUDES 5% SHRINKAGE

**AGGREGATE SURFACE COURSE, TY. B, 10"**

LOCATION	AGGREGATE SURF. CSE., TY. B, 10" (TON)
<b>W. COURTLAND ST.</b>	
* RT. STA. 25+25	44
* RT. STA. 29+25	44
<b>PROJECT TOTAL</b>	<b>88 TON</b>

\* THE ACTUAL LOCATIONS TO BE DETERMINED BY THE PROPERTY OWNER DURING CONSTRUCTION.

**EXPLORATION TRENCH, 52" DEPTH**

LOCATION	QUANTITY
<b>W. COURTLAND ST.</b>	
32' RT. STA. 10+40.74 TO STA. 32+41.67	2,162 FT.
32' LT. STA. 10+40.74 TO STA. 32+41.67	2,162
<b>PROJECT TOTAL</b>	<b>4,324 FT.</b>

**R.O.W. MARKERS & SURVEY MARKERS**

LOCATION	FURN. & ERECT. R.O.W. MARKERS (EACH)	PERMANENT SURVEY MARKERS (SPECIAL) (EACH)
222' RT. STA. 10+43	1 EA.	-
173' RT. STA. 10+69	1	-
98' LT. STA. 10+75	1	-
60' LT. STA. 11+00	-	1
69' RT. STA. 11+04	1	-
40' LT. & RT. STA. 13+00	2	-
40' LT. & RT. STA. 21+25	2	-
44' RT. STA. 32+16	-	1
38' RT. STA. 32+16	1	-
31' LT. STA. 32+19	1	-
36' LT. STA. 32+19	1	-
<b>PROJECT TOTAL</b>	<b>11 EA.</b>	<b>2 EA.</b>

**EROSION CONTROL BLANKET FOR SLOPES 3:1 OR GREATER**

LOCATION	QUANTITY
<b>W. COURTLAND ST.</b>	
RT. STA. 11+00.00 TO STA. 15+75.00	258 SQ. YD.
LT. STA. 11+00.00 TO STA. 15+75.00	267
LT. STA. 16+50.00 TO STA. 19+50.00	10
LT. STA. 21+50.00 TO STA. 25+00.00	49
RT. STA. 27+75.00 TO STA. 29+00.00	20
LT. STA. 27+75.00 TO STA. 29+25.00	18
RT. STA. 31+00.00 TO STA. 31+75.00	38
<b>VETERANS RD.</b>	
RT. STA. 19+50.00 TO STA. 22+00.00	587 SQ. YD.
RT. STA. 23+00.00 TO STA. 28+00.00	858
<b>PROJECT TOTAL</b>	<b>2,105 SQ. YD.</b>

**BASE REPAIR ITEMS**

LOCATION	REMOVAL AND DISPOSAL OF UNSUITABLE MAT'L (C.Y.)	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (S.Y.)	GRANULAR EMBANKMENT SPECIAL (TON)
<b>VETERANS RD.</b>			
LT. & RT. STA. 19+40.74 TO STA. 28+33.00	56	124	127
<b>PROJECT TOTAL</b>	<b>56 C.Y.</b>	<b>124 S.Y.</b>	<b>127 TON</b>

QUANTITIES FOR THE FOLLOWING ITEMS HAVE BEEN ESTIMATED FOR BASE REPAIRS. THE AREA HAS BEEN ESTIMATED USING 1% OF THE NEW PAVEMENT WIDENING AREAS. REMOVAL IS ESTIMATED USING A 1.5' DEPTH AND THE GRANULAR MATERIAL IS ESTIMATED USING 2.05 TON PER CUBIC YARD.

**STONE RIPRAP, CL. A3**

LOCATION	QUANTITY
RT. STA. 10+89	3 SQ. YD.
RT. STA. 13+37	3
LT. STA. 13+39	3
LT. STA. 16+34	3
LT. STA. 19+39	3
RT. STA. 19+50	3
LT. STA. 22+35	3
RT. STA. 22+50	3
<b>PROJECT TOTAL</b>	<b>24 SQ. YD.</b>

**AGGREGATE SHOULDERS, TYPE B, 6"**

LOCATION	QUANTITY
<b>VETERANS RD.</b>	
RT. STA. 25+70.50 TO STA. 28+33.00	57 SQ. YD.
LT. STA. 25+74.50 TO STA. 28+33.00	59
<b>PROJECT TOTAL</b>	<b>116 SQ. YD.</b>

**TEMPORARY PAVEMENT MARKING**

LOCATION	LETTERS & SYMBOLS (SQ.FT.)	LINE-4" (FT.)	LINE-6" (FT.)	LINE-12" (FT.)	LINE-24" (FT.)
<b>W. COURTLAND ST.</b>					
RT. & LT. STA. 10+79.94 TO STA. 45+19.09	459.8	9,501	766	175	128
<b>VETERANS RD.</b>					
RT. & LT. STA. 19+40.74 TO STA. 28+33.00	62.4	3,507	230	311	-
<b>PROJECT TOTAL</b>	<b>522.2 SQ.FT.</b>	<b>13,008 FT.</b>	<b>996 FT.</b>	<b>486 FT.</b>	<b>128 FT.</b>

**HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT**

LOCATION	QUANTITY
<b>VETERANS RD.</b>	
LT. & RT. STA. 19+40.74 TO STA. 19+76.74	120 SQ. YD.
LT. & RT. STA. 28+03.00 TO STA. 28+33.00	80
<b>PROJECT TOTAL</b>	<b>200 SQ. YD.</b>

**COMB. CONC. CURB & GUTTER, TYPE B-8.12**

LOCATION	QUANTITY
<b>VETERANS RD.</b>	
RT. STA. 19+40.74 TO RT. STA. 22+20.00	298 FT.
LT. STA. 19+40.74 TO LT. STA. 25+63.00	603
RT. STA. 22+98.00 TO RT. STA. 25+63.00	282
<b>PROJECT TOTAL</b>	<b>1,183 FT.</b>

**COMB. CONC. CURB & GUTTER, TYPE B-9.12**

LOCATION	QUANTITY
<b>W. COURTLAND ST.</b>	
* RT. STA. 10+79.94 TO RT. STA. 32+41.50	2,086 FT.
* LT. STA. 10+79.94 TO LT. STA. 34+04.00	2,267
<b>PROJECT TOTAL</b>	<b>4,353 FT.</b>

\* INCLUDES THE 10' DEDUCTION FOR INLET APRONS

LOCATION	FURN. & PLACING TOPSOIL 4" (SQ.YD.)*	SEEDING CLASS I (ACRE)	NITROGEN FERTILIZER NUTRIENT (LB) **	PHOSPHORUS FERTILIZER NUTRIENT (LB) **	POTASSIUM FERTILIZER NUTRIENT (LB) **	MULCH METHOD 2 (ACRE) ***	TEMPORARY EROSION CONTROL SEEDING (ACRE) ****	TEMPORARY MULCH (ACRE)
<b>W. COURTLAND ST.</b>								
LT. & RT. STA. 11+00.00 TO STA. 32+41.67	10,455	2.16	199.0	199.0	199.0	2.16	1.080	1.080
LT. STA. 32+41.67 TO LT. STA. 34+65.00	248	0.05	4.6	4.6	4.6	0.05	0.025	0.025
<b>VETERANS RD.</b>								
LT. & RT. STA. 19+40.74 TO STA. 28+33.00	3,691	0.76	68.6	68.6	68.6	0.76	0.380	0.380
LT. STA. 19+00.00 TO LT. STA. 19+40.74	53	0.01	0.9	0.9	0.9	0.01	0.005	0.005
<b>PROJECT TOTAL</b>	<b>14,447 SQ.YD.</b>	<b>2.98 ACRE</b>	<b>273.10 LB</b>	<b>273.10 LB</b>	<b>273.10 LB</b>	<b>2.98 ACRE</b>	<b>1.49 ACRE</b>	<b>1.49 ACRE</b>

\* 14,447 SQ. YDS. AT 4" THICK EQUATES TO 1,589 CUBIC YARDS OF TOPSOIL (FOR INFORMATION ONLY).  
 \*\* FERTILIZER TO BE APPLIED AT 270 LBS. PER ACRE AT A 1-1-1 RATIO.  
 \*\*\* PROCEDURE 1 TO BE USED AT 2 TONS PER ACRE.  
 \*\*\*\* TEMPORARY SEEDING AND MULCHING WAS ESTIMATED USING 50% OF THE PERMANENT SEEDING. TEMPORARY MULCH IS SHOWN FOR INFORMATION ONLY AND SHALL BE INCLUDED IN THE PRICE FOR TEMPORARY SEEDING.

\* ESTIMATED USING 10 FT. PER STATION/APPLICATION  
 \*\* APPLICATIONS ON MILLED SURFACE & AND SURFACE COURSE.  
 \*\*\* APPLICATIONS ON EXISTING SURFACE COURSE IF NEEDED AND ON PROPOSED SURFACE COURSE.

**SHORT TERM PAVEMENT MARKINGS \***

LOCATION	QUANTITY
<b>W. COURTLAND ST.</b>	
RT. & LT. STA. 32+41.67 TO STA. 45+19.09	520 FT. **
<b>VETERANS RD.</b>	
RT. & LT. STA. 19+40.74 TO STA. 28+33.00	360 FT. ***
<b>PROJECT TOTAL</b>	<b>880 FT.</b>

**WORK ZONE PAVEMENT MARKING REMOVAL**

LOCATION	QUANTITY
<b>W. COURTLAND ST.</b>	
RT. & LT. STA. 32+41.67 TO STA. 45+19.09	172 S.F.
<b>VETERANS RD.</b>	
RT. & LT. STA. 19+40.74 TO STA. 28+33.00	118 S.F.
<b>PROJECT TOTAL</b>	<b>290 S.F.</b>

**COMB. CURB & GUTTER REMOVAL**

LOCATION	QUANTITY
<b>W. COURTLAND ST.</b>	
RT. STA. 32+28.00 TO RT. STA. 32+41.50	14 FT.
LT. STA. 32+28.00 TO LT. STA. 34+04.00	176
<b>VETERANS RD.</b>	
RT. STA. 19+40.74 TO RT. STA. 19+50.74	10 FT.
LT. STA. 19+40.74 TO LT. STA. 19+50.74	10
<b>PROJECT TOTAL</b>	<b>210 FT.</b>

**GUTTER OUTLET, SPECIAL**

LOCATION	QUANTITY
<b>VETERANS RD.</b>	
RT. STA. 25+63	1 EA.
LT. STA. 25+63	1
<b>PROJECT TOTAL</b>	<b>2 EA.</b>

**GUTTER OUTLET REMOVAL**

LOCATION	QUANTITY
<b>VETERANS RD.</b>	
RT. STA. 19+49.00 TO STA. 19+65.00	18 FT.
LT. STA. 19+49.00 TO STA. 19+65.00	18
<b>PROJECT TOTAL</b>	<b>36 FT.</b>

**PAVING SCHEDULE**

LOCATION	AREA (SQ.YD.)	SUB-BASE GRANULAR MATERIAL TY. A, 6" (SQ.YD.)	P.C.C. PAVEMENT, 10" (SQ.YD.)	PROTECTIVE COAT (SQ. YD.) *	PAVEMENT FABRIC (SQ. YD.)	HOT-MIX ASPHALT SURFACE COURSE REMOVAL, 1 1/2" (SQ. YD.)	BITUMINOUS MATERIALS (PRIME COAT) (GALLON) **	AGGREGATE (PRIME COAT) (TON) ***	HOT-MIX ASPHALT BASE COURSE WIDENING, 11 1/4" (SQ.YD.)	STRIP REFLECTIVE CRACK CONTROL TREATMENT (FOOT)	POLY. HOT-MIX ASPHALT SURF. CSE., MIX. D, NSO, 1 1/2" (TON)
<b>VETERANS RD.</b>											
LT. & RT. STA. 19+40.74 TO STA. 28+33.00	4,192	-	-	-	-	-	210	9	-	-	352
RT. STA. 19+56.45 TO RT. STA. 28+33.00	946	-	-	-	-	-	47	4	946	881	-
LT. STA. 20+32.00 TO LT. STA. 28+33.00	295	-	-	-	-	-	15	1	295	795	-
<b>W. COURTLAND ST.</b>											
LT. & RT. STA. 10+79.94 TO STA. 32+41.67	8,882	9,382	8,882	10,009	8,882	-	-	-	-	-	-
LT. & RT. STA. 32+41.67 TO STA. 45+19.09	6,368	-	-	-	-	6,368	1,910	13	18	-	535
<b>PROJECT TOTAL</b>		<b>9,382 SQ. YD.</b>	<b>8,882 SQ. YD.</b>	<b>10,009 SQ. YD.</b>	<b>8,882 SQ. YD.</b>	<b>6,368 SQ. YD.</b>	<b>2,182 GAL.</b>	<b>27 TON</b>	<b>1,259 SQ. YD.</b>	<b>1,676 FOOT</b>	<b>887 TON</b>

\* PROTECTIVE COAT APPLIED TO PAVEMENT, GUTTER PAN, FACE AND TOP OF CURB.  
 \*\* PRIME ESTIMATED @ 0.05 GAL/SQ.YD. ON BITUMINOUS WIDENING & EX. SURFACE COURSE @ 0.30 GAL/SQ.YD. ON MILLED SURFACE COURSE.  
 \*\*\* AGGREGATE PRIME ESTIMATED @ 4 POUNDS/SQ.YD. ON ALL APPLICATIONS OF PRIME ALL BITUMINOUS ITEMS ESTIMATED AT 112 POUNDS/SQ.YD./IN. THICKNESS

QUANTITIES NOT OTHERWISE SHOWN		AUSTIN ENGINEERING CO., INC.	
		CIVIL ENGINEERS	
FOR: VILLAGE OF MORTON, IL		PROBIA	ILLINOIS
DATE 3/21/08	SCALE NONE	BOOK	SHEET NO. 4 OF 39