

Highway Division

Project No. 605178

PROJECT NO: 605178

SHEET <u>1</u> of <u>17</u>

ESTIMATE OF QUANTITIES – DETAIL SHEETS

TOWN/CITY:	<u>BILLERICA</u>	YEAR: <u>2021</u>		
STA.:	<u>103+75.00 TO 145+94.69</u>	ROAD: BOSTON ROAD (ROUTE 3A)		
Earth Excavation	<u>19,000 CY</u>	Gravel Sub-base	<u>4740 CY</u>	
Class A Trench	<u>130 CY</u>	Gravel for Driveways	<u>970 CY</u>	
Class B Rock Excav	ation. <u>180 CY</u>	Gravel for Sidewalks	<u>1470 CY</u>	
Class B Trench	<u>40 CY</u>			

PROPOSED FULL DEPTH CONSTRUCTION AND BOX WIDENING >4'

Area = 190,000 SF

SURFACE1-3/4" Superpave Surface Course 12.5 Polymer (SSC-12.5-P)COURSE:over

INTERMEDIATE 2-1/4" Superpave Intermediate Course 19.0 (SIC-19.0) over COURSE:

BASE COURSE: 4-1/2" Superpave Base Course 37.5 (SBC-37.5) over

SUB-BASE: 4" Dense Graded Crushed Stone over 8" Gravel Borrow, Type B

PROPOSED FULL DEPTH CONSTRUCTION ≤ 4' WIDE

Area = 1,800 SF

<u>SURFACE</u> 1-3/4" Superpave Surface Course 12.5 Polymer (SSC-12.5-P) over <u>COURSE:</u>

INTERMEDIATE 2-1/4" Superpave Intermediate Course 19.0 (SIC-19.0) over COURSE:

BASE COURSE: 6" Cement Concrete Base Course over

SUB BASE: 8" Gravel Borrow, Type B

Plan No.'s Profile No.'s

Estimated by	<u>KL</u>
 Reviewed by	DJ



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ESTIMATE OF QUANTITIES – DETAIL SHEETS

TOWN/CITY:	HOLBROOK
STA.:	<u>103+75.00 TO 145+94.69</u>

YEAR: <u>2020</u> ROAD: UNION STREET (ROUTE 139)

Calculation Book No.'s _____

Submitted by _____BETA_Group, Inc.

PROPOSED PAVEMENT MILLING AND OVERLAY (Boston Road & Heritage Road) Area = 54,900 SF

SURFACE 1-3/4" Superpave Surface Course 12.5 Polymer (SSC-12.5-P) over

COURSE:

PAVEMENT Variable Depth Standard Pavement Milling 0.5"-4" Max.

MILLING:

INTERMEDIATE 2-1/4" Superpave Intermediate Course 19.0 (SIC-19.0) over COURSE:

 SURFACE
 1-3/4" Superpave Surface Course 12.5 Polymer (SSC-12.5-P) over

 COURSE:
 Polymer

<u>PAVEMENT</u> 1-3/4" Variable Depth Standard Pavement Milling <u>MILLING:</u>

 CEMENT CONCRETE SIDEWALKS, WHEELCHAIR RAMPS AND SHARED USE PATHS
 Area = 59,400 SF

 SURFACE:
 6" Cement Concrete Walk Surface
 4000 psi, 3/4", 610 Air Entrained over

FOUNDATION: 8" Gravel Borrow, Type B

CEMENT CONCRETE SIDEWALKS AT DRIVEWAYS AND SHARED USE PATH WHEELCHAIR RAMPS

Area = 21,900 SF

SURFACE: 6" Cement Concrete Walk Surface 4000 psi, 3/4", 610 Air Entrained over

FOUNDATION: 8" Gravel Borrow, Type B

HMA SIDEWALKS

Massachusetts Department Of Transportation Highway Division

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TOWN/CITY:	HOLBROOK	YEAR:	<u>2020</u>
STA.:	<u>103+75.00 TO 145+94.69</u>	ROAD:	UNION STREET (ROUTE 139)

SURFACE:1-1/4" Superpave Surface Course 9.5 (SSC-9.5) over1-3/4" Superpave Intermediate Course 12.5 (SIC-12.5) over

FOUNDATION: 8" Gravel Borrow, Type B

HMA DRIVEWAYS

Area = 17,100 SF

SURFACE	1-1/2" Superpave Surface Course 9.5 (SSC-9.5) over
COURSE:	2-1/2" Superpave Intermediate Course 12.5 (SIC-12.5) over
BASE COURSE:	8" Gravel Borrow, Type B

BRICK ACCENT STRIP

Area = 4,800 SF

SURFACE:	4"x8"x2-1/4" Brick Pavers Over
	1" Sand Bedding Over

BASE: 4" Cement Concrete

FOUNDATION: 8" Gravel Borrow, Type b

102.2 TREE TRIMMING

LOCATION	<u>STA.</u>	<u>OFFSET</u>
Boston Rd	41+28	36' RT
Boston Rd	41+88	81' LT
Boston Rd	45+72	65' LT
Boston Rd	46+45	47' RT
LASALLETTE ROAD	4+71	31' RT
GOOD STREET	71+92	38' RT
GOOD STREET	71+97	34' RT
GOOD STREET	74+54	24' RT
Boston Rd	14+41	29' RT
Boston Rd	14+88	29' RT
Boston Rd	15+24	28' RT
Boston Rd	15+62	30' RT





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ESTIMATE OF QUANTITIES – DETAIL SHEETS

HOLBROOK		YEAR:	<u>2020</u>
<u>103+75.00 TO 145</u>	5+94.69	ROAD:	UNION STREET (ROUTE 139)
on Rd	23+28	29' RT	
on Rd	24+44	33' RT	
on Rd	24+79	34' RT	
on Rd	35+01	31' RT	
on Rd	38+60	31' RT	
I HALL	42+45	42' RT	
I HALL	42+83	44' RT	
I HALL	43+31	45′ RT	
LO CIRCLE	58+28	87' RT	
		103+75.00 TO 145+94.69 on Rd 23+28 on Rd 24+44 on Rd 24+79 on Rd 35+01 on Rd 38+60 N HALL 42+45 N HALL 42+83 N HALL 43+31	103+75.00 TO 145+94.69 ROAD: on Rd 23+28 29' RT on Rd 24+44 33' RT on Rd 24+79 34' RT on Rd 35+01 31' RT on Rd 38+60 31' RT N HALL 42+45 42' RT N HALL 42+83 44' RT N HALL 43+31 45' RT

102.511 TREE PROTECTION – ARMORING & PRUNING

LOCATION	STA.	OFFSET
Boston Rd	14+41	29' RT
Boston Rd	14+88	29' RT
Boston Rd	15+24	28' RT
Boston Rd	15+62	30' RT
Boston Rd	23+28	29' RT
Boston Rd	24+44	33' RT
Boston Rd	24+79	34' RT
Boston Rd	35+01	31' RT
Boston Rd	38+60	31' RT
TOWN HALL	42+45	42' RT
TOWN HALL	42+83	44' RT
TOWN HALL	43+31	45' RT
MONTICELLO CIRCLE	58+28	87' RT

127.1 REINFORCED CONCRETE EXCAVATION

LOCATION	<u>STA</u>	<u>STA</u>	<u>WIDTH</u>	THICKNESS
BOSTON RD	25+00	26+00	10'	.67'

146. DRAINAGE STRUCTURE REMOVED

LOCATION	<u>STA</u>	LT/RT	TYPE
UNION	105+79	LT	EX-CB
UNION	105+86	LT	EX-CB
UNION	106+21	RT	EX-CB
UNION	106+83	RT	EX-CB
UNION	107+36	RT	EX-CB
UNION	107+36	LT	EX-DMH
UNION	107+43	LT	EX-CB
UNION	115+45	RT	EX-DMH



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ESTIMATE OF QUANTITIES – DETAIL SHEETS

TOWN/CITY: STA.:		<u>BROOK</u> 75.00 TO 145	5+94.69		YEAR: ROAD:	<u>2020</u> <u>UNION STREET (ROUTE 139)</u>
BOSTON R	OAD	15+85.26 17+43.82 18+25.16 20+57.43 21+61.83 25+16.73 25+58.15 25+79.24 26+35.80 26+77.02 26+85.38 28+76.60 28+53.63 28+67.39 29+84.85 31+46.99	LT LT RT LT RT LT LT LT RT LT RT LT RT LT	EX-CB EX-CB EX-CB EX-CB EX-CB EX-DMH EX-CB EX-CB EX-CB EX-CB EX-CB EX-CB EX-CB EX-CB EX-CB EX-CB EX-CB EX-CB		

	51 + 40.33		
	31+59.13	LT	EX-CB
	34+66.76	LT	EX-DMH
	34+87.69	LT	EX-CB
	35+72.61	LT	EX-DMH
	35+83.06	LT	EX-CB
	36+21.33	RT	EX-DMH
	36+45.54	RT	EX-CB
	37+45.33	LT	EX-DMH
	37+61.68	RT	EX-CB
	37+94.29	LT	EX-CB
	40+20.24	LT	EX-DMH
	40+53.78	LT	EX-CB
	42+25.39	RT	EX-CB
	42+17.77	LT	EX-DMH
	42+66.78	RT	EX-CB
	45+97.28	LT	EX-DMH
	46+49.26	RT	EX-CB
HERITAGE ROAD	56+50.25	LT	EX-CB
	58+38.56	RT	EX-CB

184.1 DISPOSAL OF TREATED WOOD PRODUCTS

LOCATION	<u>STA. TO</u>	<u>STA.</u>	<u>LT/RT</u>
HERITAGE RD	50+50	52+50	LT



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ESTIMATE OF QUANTITIES – DETAIL SHEETS

TOWN/CITY:	HOLBROOK	YEAR:	<u>2020</u>
STA.:	<u>103+75.00 TO 145+94.69</u>	ROAD:	UNION STREET (ROUTE 139)

203.1 DIVERSION MANHOLE

LOCATION	<u>STR. NO.</u>	<u>STA.</u>	<u>LT/RT</u>
BOSTON RD	DVM-1	45+99.18	LT

203.2 WATER QUALITY INLET

LOCATION	<u>STR. NO.</u>	<u>STA.</u>	<u>LT/RT</u>
BOSTON RD	WQU-1	45+90.90	LT

220.2 DRAINAGE STRUCTURE REBUILT

For any existing drainage structure encountered to be damaged or in need of reconstruction during installation of proposed drainage pipe and structures, as directed by the Engineer.

220.6 SANITARY STRUCTURE REBUILT

For any existing sanitary structure encountered to be damaged or in need of reconstruction during installation of proposed drainage pipe and structures, as directed by the Engineer.

220.7 SANITARY STRUCTURE ADJUSTED

LOCATION	<u>STA</u>	<u>LT/RT</u>	TYPE
BOSTON ROAD	14+00.62	RT	SMH
	16+90.56	RT	SMH
	17+08.57	RT	SMH
	18+77.11	RT	SMH
	21+82.61	RT	SMH
	23+15.41	RT	SMH
	24+87.67	RT	SMH
	25+73.99	LT	SMH
	26+39.18	LT	SMH
	32+37.47	LT	SMH
HERITAGE ROAD	52+40.44	RT	SMH
	55+51.40	RT	SMH
	58+21.33	RT	SMH
GOOD STREET	73+76.23	LT	SMH
	74+77.03	LT	SMH



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ESTIMATE OF QUANTITIES – DETAIL SHEETS

TOWN/CITY:	HOLBROOK	YEAR:	<u>2020</u>
STA.:	<u>103+75.00 TO 145+94.69</u>	ROAD:	UNION STREET (ROUTE 139)

220.8 SANITARY STRUCTURE REMODELED

LOCATION	<u>STA</u>	LT/RT	<u>TYPE</u>
BOSTON ROAD	29+34.00	LT	SMH
	34+77.00	LT	SMH
	35+39.00	LT	SMH
	37+81.81	LT	SMH

302.06 6 INCH DUCTILE IRON WATER PIPE (RUBBER GASKET)

LOCATION	<u>STA</u>	<u>LT/RT</u>
BOSTON ROAD	23+87	RT
	39+08	RT
	44+25	RT
HERITAGE ROAD	56+43	LT

347.1 1 INCH COPPER TUBING K

All services that are old iron need to be replaced with copper. There are very old services that may break during construction. Replace all services from main to curb stop.

347.2 2 INCH COPPER TUBING K

All services that are old iron need to be replaced with copper. There are very old services that may break during construction. Replace all services from main to curb stop.

350.06 6 INCH GATE AND GATE BOX

LOCATION	<u>STA</u>	<u>LT/RT</u>
BOSTON ROAD	16+60	LT
	23+87	RT
	34+72	RT
	39+08	RT
	44+25	RT
	49+30	RT
HERITAGE ROAD	56+43	LT



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TOWN/CITY:	HOLBROOK	YEAR:	<u>2020</u>
STA.:	<u>103+75.00 TO 145+94.69</u>	ROAD:	UNION STREET (ROUTE 139)

350.08 8 INCH GATE AND GATE BOX

LOCATION	<u>STA</u>	<u>LT/RT</u>
BOSTON ROAD	27+10	LT

376. HYDRANT

LOCATION	<u>STA.</u>	<u>LT/RT</u>
BOSTON ROAD	16+60	LT
	23+87	RT
	34+72	RT
	39+08	RT
	44+25	RT
	49+30	RT
HERITAGE ROAD	56+43	LT

376.1 HYDRANT EXCLUDING COST OF HYDRANT

LOCATION	<u>STA.</u>	<u>LT/RT</u>
BOSTON ROAD	16+60	LT

451. HMA FOR PATCHING

Permanent patching of utility trenches (drainage, water main, and conduit) crossing mill & overlay area in roadway, 6" wide trench on top of cement concrete curb setting in mill & overlay areas, and other miscellaneous hand work throughout the project.

472. TEMPORARY ASPHALT PATCHING

Temporary patching of utility trenches (drainage, water main, and conduit) crossing full depth pavement area in roadway, and other miscellaneous work throughout the project.



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STA.:	<u>103+75.00 TO 145+94.69</u>	ROAD:	UNION STREET (ROUTE 139)

504.3. GRANITE CURB TYPE VA4 - SLOPED EDGE

LOCATION	STATION	<u>LT/RT</u>
BOSTON ROAD	26+24	LT
	27+15	LT
	27+92	LT
	28+91	LT
	30+14	LT
	31+23	LT
	32+99	LT
	33+56	LT
	35+08	LT
	36+38	LT
	37+71	LT
	38+27	LT
	38+92	LT
	39+51	LT
	40+07	LT
	40+12	RT
	41+20	RT
	42+85	RT
	44+56	RT
	45+63	RT
	46+62	RT
	47+10	RT
	47+74	RT

509.3. GRANITE TRANSITION CURB - SLOPED EDGE

LOCATION	STATION	LT/RT
BOSTON ROAD	26+24	<u></u> LT
	27+15	LT
	27+92	LT
	28+91	LT
	30+14	LT
	31+23	LT
	32+99	LT
	33+56	LT
	35+08	LT
	36+38	LT
	37+71	LT



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ESTIMATE OF QUANTITIES – DETAIL SHEETS

TOWN/CITY:	<u>HOLBROOK</u>	+94.69	YEAR:	<u>2020</u>
STA.:	<u>103+75.00 TO 145-</u>		ROAD:	<u>UNION STREET (ROUTE 139)</u>
	38+27 38+92 39+51 40+07 40+12 41+20 42+85	LT LT LT RT RT RT		

44+56	RT
45+63	RT
46+62	RT
47+10	RT
47+74	RT

570.2 HOT MIX ASPHALT CURB TYPE 2

LOCATION	STATION	<u>LT/RT</u>
BOSTON ROAD	STA 24+00	RT
	STA 26+70	LT
	STA 30+70	LT
FARMERS LANE	STA 1+50	LT
GOOD STREET	STA 71+70	LT
	STA 73+80	LT

580. CURB REMOVED AND RESET

LOCATION	STATION	LT/RT
BOSTON ROAD	STA 15+80	LT
	STA 13+00	RT
	STA 14+00	LT
	STA 29+50	LT
	STA 30+00	LT
TOM GLAVINE WAY	STA 94+00	RT
GOOD STREET	STA 75+00	LT

620.12 GUARDRAIL, TL-2 (SINGLE FACED)

LOCATION	STATION	TO STATION	<u>LT/RT</u>
HERITAGE ROAD	52+06.9	52+82.9	RT
FARMERS LANE	3+18.6	3+59	RT



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TOWN/CITY:	HOLBROOK	YEAR:	<u>2020</u>
STA.:	<u>103+75.00 TO 145+94.69</u>	ROAD:	UNION STREET (ROUTE 139)

620.32 GUARDRAIL - CURVED, TL-2 (SINGLE FACED)

LOCATION	<u>STATION</u>	TO STATION	LT/RT
HERITAGE ROAD	52+52	54+36	LT

627.1 TRAILING ANCHORAGE

LOCATION	STATION	<u>LT/RT</u>
HERITAGE ROAD	52+84	RT
	54+35	LT
	53+52	LT
FARMERS LANE	3+59	RT

627.82 GUARDRAIL TANGENT END TREATMENT, TL-2

LOCATION	STATION	<u>LT/RT</u>
HERITAGE ROAD	52+02	RT
FARMERS LANE	2+94	RT

670. FENCE REMOVED AND RESET

LOCATION	STATION	TO STATION	LT/RT
BOSTON ROAD	13+51	13+84	LT
	13+99	14+56	LT
	33+89	34+05	LT
	34+33	34+55	LT
	37+83	39+02	RT
	40+39	40+77	RT
	48+60	48+65	RT
TOM GLAVINE WAY	92+36	92+74	LT
	93+20	93+44	LT
	94+11	94+25	LT
HERITAGE ROAD	58+90	59+00	LT

685. STONE MASONRY WALL IN CEMENT MORTAR

LOCATION	STATION	TO STATION	<u>LT/RT</u>
BOSTON ROAD	20+30	21+80	RT



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TOWN/CITY:	HOLBROOK	YEAR:	<u>2020</u>
STA.:	<u>103+75.00 TO 145+94.69</u>	ROAD:	UNION STREET (ROUTE 139)

691. BALANCE STONE WALL REMOVED AND REBUILT

LOCATION	STATION	TO STATION	<u>LT/RT</u>
BOSTON ROAD	20+30	21+00	RT
	34+52	35+75	RT

705.1 FLAGSTONE WALK REMOVED AND RESET

LOCATION	STATION	LT/RT
BOSTON ROAD	49+90	RT

706.1 BRICK WALK REMOVED AND RELAID

LOCATION	STATION	<u>LT/RT</u>
BOSTON ROAD	38+25	LT
	46+30	LT

707.31 TREE GRATE (36" X 72")

LOCATION	STATION	<u>LT/RT</u>
BOSTON ROAD	34+25	RT
	34+77	RT
	37+58	RT
	38+30	RT
	45+31	RT
	45+32	RT
	45+98	RT
	47+28	LT
	47+86	LT
	48+43	LT

710.4 BOUND – PLAIN GRANITE

LOCATION	<u>STATION</u>	<u>LT/RT</u>
BOSTON ROAD	34+69	RT
	36+51	RT
	37+57	RT
	38+79	RT
	40+33	RT



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ESTIMATE OF QUANTITIES – DETAIL SHEETS

TOWN/CITY: STA.:	HOLBROC 103+75.00	<u>0K</u> TO 145+94.69		YEAR: ROAD:	<u>2020</u> <u>UNION STREET (ROUTE 139)</u>
GOOI	O STREET	40+82 70+46	RT LT		
		70+78	RT		
		71+63	RT		
		72+74	LT		

	72+90	RT
LASALLETTE ROAD	4+61	RT

711. BOUND REMOVED AND RESET

LOCATION	STATION	<u>LT/RT</u>
BOSTON ROAD	13+96	LT
	32+11	RT
	39+69	LT
HERITAGE ROAD	50+60	RT
LASALLETTE ROAD	4+55	RT
	4+29	LT

715. RURAL MAIL BOX REMOVED AND RESET

LOCATION	STATION	<u>LT/RT</u>
BOSTON ROAD	20+23	LT
	20+75	LT
	36+80	RT
	40+24	LT
	41+08	LT
	42+31	LT
	44+19	LT
	45+04	RT
GOOD STREET	71+22	LT
	71+24	RT
	73+50	RT
	75+41	RT
HERITAGE ROAD	55+00	LT
	55+62	LT
	56+27	RT
	56+95	LT
	57+83	LT



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STA.:	<u>103+75.00 TO 145+94.69</u>	ROAD:	UNION STREET (ROUTE 139)

767.121 SEDIMENT CONTROL BARRIER

<u>STATION</u>	TO STATION	LT/RT
35+51.30	36+48.05	LT
37+46.53	38+20.33	LT
2+24.82	3+43.02	RT
51+35.83	55+32.68	RT
	35+51.30 37+46.53 2+24.82	35+51.30 36+48.05 37+46.53 38+20.33 2+24.82 3+43.02

767.6 AGED PINE BARK MULCH

LOCATION	STATION	<u>LT/RT</u>
BOSTON ROAD	15+75	LT
	26+50	RT
	26+50	LT
	29+80	LT
	36+75	LT
FARMERS LANE	1+75	LT
HERITAGE ROAD	55+30	LT
	56+50	LT
	58+90	LT

811.91 HANDHOLE TYPE A (STREETLIGHT)

LOCATION	STRC.	STATION	LT/RT
BOSTON ROAD	A-1	25+91.8	RT
	A-2	26+28.2	LT
	A-3	26+71.7	RT
	A-4	26+93.6	LT
	A-5	28+05.3	RT
	A-6	28+05.2	LT
	A-7	29+30.5	RT
	A-8	29+32.7	LT
	A-9	30+33.9	RT
	A-10	30+33.8	LT
	A-11	31+42.2	RT
	A-12	31+42.4	LT
	A-13	32+73.6	RT
	A-14	32+73.8	LT
	A-15	33+97.3	RT



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TOWN/CITY:	HOLBROOK		YEAR:	<u>2020</u>
STA.:	<u>103+75.00 TO 145+</u>	94.69	ROAD:	UNION STREET (ROUTE 139)
	A-16	33+97.2	LT	
	A-17	35+18.2	RT	
	A-18	35+18.0	LT	
	A-19	36+51.4	RT	
	A-20	36+51.3	LT	
	A-21	37+78.0	RT	
	A-22	37+77.9	LT	
	A-23	38+90.3	RT	
	A-24	38+89.3	LT	
	A-25	40+07.9	RT	
	A-26	40+08.6	LT	
	A-27	41+00.7	RT	
	A-28	40+94.5	LT	
	A-29	42+36.9	RT	
	A-30	42+11.6	LT	
	A-31	43+40.0	RT	
	A-32	43+39.5	LT	
	A-33	44+23.9	RT	
	A-34	44+53.4	RT	
	A-35	44+55.8	LT	
	A-36	45+77.3	RT	
	A-37	45+72.7	LT	
	A-38	46+48.3	RT	
	A-39	46+48.9	LT	
	A-40	49+31.3	RT	
811.94 ELECTRICA	AL HANDHOLE TYPE C			
LOCATION	STRC.	STATION	LT/RT	
BOSTON ROAD	C-1	33+94.0	RT	

BOSTON ROAD	C-1	33+94.0	RT
	C-2	44+23.3	RT
	C-3	46+60.3	RT
	C-4	48+59.9	RT
	C-5	49+79.3	RT

811.95 ELECTRICAL HANDHOLE TYPE D

LOCATION	STRC.	STATION	<u>LT/RT</u>
BOSTON ROAD	D-1	33+98.7	RT
	D-2	44+22.7	RT
	D-3	46+66.4	RT
	D-4	48+60.1	RT



Highway Division

Project No. 605178

PROJECT NO: 605178

SHEET <u>16</u> of <u>17</u>

ESTIMATE OF QUANTITIES – DETAIL SHEETS

TOWN/CITY:	HOL	<u>BROOK</u>		YEAR:	<u>2020</u>
STA.:	<u>103</u> +	75.00 TO	145+94.69	ROAD:	UNION STREET (ROUTE 139)
		D-5	49+77.5	RT	
TOM GLAVINE W	/AY	D-6	94+17.5	LT	

811.96 ELECTRICAL HANDHOLE TYPE E

LOCATION	STRC.	STATION	<u>LT/RT</u>
BOSTON ROAD	E-1	28+98.1	RT
	E-2	34+04.2	RT
	E-3	44+24.4	RT
	E-4	45+66.0	RT
	E-5	46+64.6	RT
	E-6	48+56.9	RT

823.72 LIGHT POST REMOVED AND RESET

LOCATION	STATION	<u>LT/RT</u>
TOM GLAVINE WAY	92+75	LT
GOOD STREET	73+60	LT

823.73 COBRA HEAD LIGHT REMOVED AND RESET

LOCATION	POLE #	STATION	<u>LT/RT</u>
BOSTON ROAD	UP#124	15+50	LT
	UP#125	16+70	LT
	UP#126	17+90	LT
	UP# 128	19+70	LT
	UP#130	21+80	LT
	UP#132	24+00	LT
MULBERRY LANE	UP#154	6+60	RT
HERITAGE ROAD	UP#2	52+00	RT
	UP#3	53+50	RT
	UP#4	54+40	RT
	UP#4-50	55+30	RT
	UP#5	56+30	RT
	UP#6	57+65	RT
	UP#6-50	58+50	RT
	UP#7	59+00	LT
	UP#8	59+65	LT

823.82 FLAG POLE REMOVED AND RESET

LOCATION	STATION	<u>LT/RT</u>
BOSTON ROAD	26+75	RT



Highway Division

Project No. 605178

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SHEET <u>17</u> of <u>17</u>

ESTIMATE OF QUANTITIES – DETAIL SHEETS

TOWN/CITY:	HOLBROOK	YEAR:	<u>2020</u>
STA.:	<u>103+75.00 TO 145+94.69</u>	ROAD:	UNION STREET (ROUTE 139)

901. 4000 PSI, 1.5 IN., 565 CEMENT CONCRETE

Headwalls for Heritage Road (STA 52+26) and Farmers Lane (STA 3+25)

903. 3000 PSI, 1.5 IN., 470 CEMENT CONCRETE

Thrust block for new hydrant and removed and reset hydrants

910.1 STEEL REINFORCEMENT FOR STRUCTURES – EPOXY COATED

Headwalls for Heritage Road (STA 52+26) and Farmers Lane (STA 3+25)

970. BITUMINOUS DAMP-PROOFING

Headwalls for Heritage Road (STA 52+26) and Farmers Lane (STA 3+25)

988.01 SEDIMENT FOREBAY PAVING

For sediment forebay at Heritage Road