

**—100% DESIGN HIGHWAY SUBMITTAL**

**ESTIMATE OF QUANTITIES — DETAIL SHEET—**

TOWN: MARION, MA

DATE: OCTOBER 2023

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CRUSHED STONE	<u>2904</u> TONS	ORDINARY BORROW	<u>0</u> CY
EMBANKMENT +15%	<u>0</u> CY	PROCESSED GRAVEL	<u>7187</u> CY
UNCLASSIFIED EXCAVATION	<u>8200</u> CY	MODIFIED ROCKFILL	<u>1972</u> TONS

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**PROPOSED SHARED-USE PATH FULL-DEPTH PAVEMENT**

**AREA: 22,319 SY**

- SURFACE: 1.5 INCHES HOT MIX ASPHALT SURFACE COURSE
- INTERMEDIATE: 2.5 INCHES HOT MIX ASPHALT INTERMEDIATE COURSE
- SUBBASE: 8 INCHES GRAVEL BORROW
- TACK COAT: BITUMEN FOR TACK COAT (RS-1) AT 0.8 GAL/SQUARE YARD

**PROPOSED WASHBURN LANE & PARKING AREAS FULL-DEPTH PAVEMENT**

**AREA: 2,085 SY**

- SURFACE: 1.5 INCHES HOT MIX ASPHALT SURFACE COURSE
- INTERMEDIATE: 2.5 INCHES HOT MIX ASPHALT INTERMEDIATE COURSE
- SUBBASE: 12 INCHES GRAVEL BORROW
- TACK COAT: BITUMEN FOR TACK COAT (RS-1) AT 0.8 GAL/SQUARE YARD OVER

**PROPOSED ROUTE 105 AT SPRING STREET INTERSECTION FULL-DEPTH PAVEMENT**

**AREA: 112 SY**

- SURFACE: 1.75 INCHES HOT MIX ASPHALT SURFACE COURSE OVER 2.25 INCHES HOT MIX ASPHALT INTERMEDIATE COURSE
- BASE: 3.5 INCHES SUPERPAVE BASE COURSE
- SUBBASE: 4 INCHES DENSE GRADED CRUSHED STONE FOR LEVELING OVER EXISTING GRAVEL SUBGRADE (COMPACTED) OR 8" GRAVEL BORROW (TYPE B)
- TACK COAT: BITUMEN FOR TACK COAT (RS-1) AT 0.8 GAL/SQUARE YARD OVER

**PROPOSED RTE 105 & SPRING STREET INTERSECTION PAVEMENT MILLING AND OVERLAY**

**AREA: 875 SY**

- SURFACE: 1.75 INCHES HOT MIX ASPHALT SURFACE COURSE
- TACK COAT: BITUMEN FOR TACK COAT (RS-1) AT 0.8 GAL/SQUARE YARD OVER
- 1.75 INCHES OF PAVEMENT STANDARD MILLING

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**PROPOSED RTE 105 & SPRING STREET INTERSECTION DRIVEWAY FULL DEPTH** **AREA: 123 SY**

SURFACE: 1.5 INCHES HOT MIX ASPHALT SURFACE COURSE  
 INTERMEDIATE: 2.5 INCHES HOT MIX ASPHALT SURFACE COURSE  
 SUBBASE: 8 INCHES GRAVEL BORROW  
 TACK COAT: BITUMEN FOR TACK COAT (RS-1) AT 0.8 GAL/SQUARE YARD OVER

**PROPOSED RTE 105 & SPRING STREET INTERSECTION CONCRETE SIDEWALKS, CURB RAMPS, AND ISLAND** **AREA: 60 SY**

SURFACE: 4 INCHES CEMENT CONCRETE (4,000 PSI, 3/4", 610)  
 FOUNDATION: 8 INCHES GRAVEL BORROW (TYPE b)

**PROPOSED RTE 105 & SPRING STREET INTERSECTION CONCRETE DRIVEWAYS** **AREA: 60 SY**

SURFACE: 6 INCHES CEMENT CONCRETE (4,000 PSI, 3/4", 610)  
 FOUNDATION: 8 INCHES GRAVEL BORROW (TYPE b)

**ITEM 101. CLEARING AND GRUBBING**

<u>Location</u>	<u>Station</u>	to	<u>Station</u>	<u>Offset</u>
SUP	100+00		228+25	LT/RT
Front St. Int.	230+00		229+80	LT/RT
SUP	268+00		300+30	LT/RT

**ITEM 102.1 TREE TRIMMING**

<u>Location</u>	<u>Station</u>	to	<u>Station</u>	<u>Offset</u>
Spring St.	102+25		103+00	LT

**ITEM 102.51 INDIVIDUAL TREE PROTECTION**

For the necessary protection of trees located on either side of Shared-Used Path, Route 105, Washburn Park, and Point Rd. (See Tree Protection Schedule in Construction Details)

**ITEM 141.1 TEST PITS FOR EXPLORATION**

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This item is to be used at multiple locations throughout the entirety of the Shared-Use Path, Route 105 Intersection, Washburn Park, and Point Road. Final test pit locations are to be determined by the Contractor and Engineer as necessary to supplement subsurface information during construction.

**ITEM 151.2**

**GRAVEL BORROW FOR BACKFILLING STRUCTURES AND PIPES**

<u>Location</u>	<u>Structure No.</u>	<u>Station</u>	<u>Offset</u>
SUP	HYD	108+65	RT
SUP	HYD	127+40	RT
SUP	HYD	132+50	RT
SUP	HYD	151+50	RT

**ITEM 156.**

**CRUSHED STONE**

<u>Location</u>	<u>Station</u>	to	<u>Station</u>
SUP	101+11		106+75
SUP	107+75		108+75
SUP	109+75		110+75
SUP	112+25		114+25
SUP	130+75		131+75
SUP	132+75		137+25
SUP	133+75		136+25
SUP	137+25		145+75
SUP	140+25		142+25
SUP	143+25		145+75
SUP	149+75		151+75
SUP	150+25		153+25
SUP	158+75		160+25
SUP	160+25		163+25
SUP	166+25		167+25
SUP	176+25		177+75
SUP	180+25		189+75
SUP	180+25		202+75
SUP	191+25		198+25
SUP	199+25		202+75
SUP	204+75		207+25
SUP	227+75		228+32
SUP	229+87		230+0
SUP	233+25		234+25
SUP	241+25		242+75
SUP	242+75		244+75
SUP	249+75		250+75
SUP	252+75		254+75
SUP	252+75		256+25
SUP	260+75		261+75

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SUP	268+25	272+25
SUP	268+25	272+75
SUP	280+75	292+25
SUP	280+75	282+25
SUP	283+25	292+25
SUP	293+25	294+25
SUP	293+25	294+25
SUP	295+25	296+25

This item is to be used as the underlying layer for the modified rock on the shoulder slopes of the Shared-Used Path, Route 105 Intersection, and Washburn Park where the slope is steeper than 1.5:1.0. This item is to be used in the trench drains along the shoulders of the Shared Use Path and Washburn Park. See Typical Sections for trench drain limits.

**ITEM 201.**                      **CATCH BASIN**

<u>Location</u>	<u>Structure</u>	<u>Station</u>	<u>Offset</u>
Front St.	CB	102+15	RT (14')
Spring St.	CB	200+23	LT (12')
Spring St.	CB	200+48	RT (14')
Spring St.	CB	200+62	LT (11')

**ITEM 220.**                      **DRAINAGE STRUCTURE ADJUSTED**

<u>Location</u>	<u>Structure</u>	<u>Station</u>	<u>Offset</u>
Front St.	DMH	102+30	LT (5')
Front St.	CB	102+46	LT (12')
Front St.	CB	100+58	LT (4')

**ITEM 220.3**                      **DRAINAGE STRUCTURE CHANGE IN TYPE**

<u>Location</u>	<u>Structure</u>	<u>Station</u>	<u>Offset</u>
Spring St.	CB to DMH	200+44	LT (8')
Front St.	CB to DMH	102+04	RT (17')

**ITEM 220.7**                      **SANITARY STRUCTURE ADJUSTED**

<u>Location</u>	<u>Structure</u>	<u>Station</u>	<u>Offset</u>
Front St.	SMH	102+67	LT (4')

**ITEM 221.0**                      **FRAME AND COVER**

<u>Location</u>	<u>Structure</u>	<u>Station</u>	<u>Offset</u>
Spring St.	CB to DMH	200+44	LT (8')
Front St.	CB to DMH	102+04	RT (17')

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TOWN: MARION, MADATE: OCTOBER 2023**ITEM 222.3**      **FRAME AND GRATE – MASSDOT CASCADE TYPE**

<u>Location</u>	<u>Structure</u>	<u>Station</u>	<u>Offset</u>
Front St.	CB	102+15	RT (14')
Spring St.	CB	200+23	LT (12')
Spring St.	CB	200+48	RT (14')
Spring St.	CB	200+62	LT (11')
Front St.	CB	102+46	LT (12')

**ITEM 223.2**      **FRAME AND GRATE (OR COVER) REMOVED AND DISCARDED**

<u>Location</u>	<u>Structure</u>	<u>Station</u>	<u>Offset</u>
Front St.	F&G	102+11	RT
Spring St.	F&G	200+44	LT
Front St.	F&G	102+64	RT
Front St.	F&G	102+46	LT

**ITEM 227.3**      **REMOVAL OF DRAINAGE STRUCTURES SEDIMENT**

This item is to be included as a contingency with the removal of the Reinforced Concrete Pipe at the Front and Spring Street Intersection.

**ITEM 244.12**      **12 INCH REINFORCED CONCRETE PIPE CLASS V**

<u>Location</u>	<u>Station</u>	<u>Offset</u>	to	<u>Station</u>	<u>Offset</u>
Front St.	102+15	RT		102+13	RT
Front St.	200+23	LT		102+64	RT
Spring St.	200+48	RT		200+44	LT
Spring St.	200+62	LT		200+44	LT

**ITEM 303.06.**      **6 INCH DUCTILE IRON WATER PIPE (MECHANICAL JOINT)**

<u>Location</u>	<u>Structure No.</u>	<u>Station</u>	<u>Offset</u>
SUP	HYD	108+65	RT
SUP	HYD	127+40	RT
SUP	HYD	132+50	RT
SUP	HYD	151+50	RT

**ITEM 309.**      **DUCTILE IRON FITTING FOR WATER PIPES**

<u>Location</u>	<u>Structure No.</u>	<u>Station</u>	<u>Offset</u>
SUP	HYD	108+65	RT
SUP	HYD	127+40	RT
SUP	HYD	132+50	RT
SUP	HYD	151+50	RT

**—100% DESIGN HIGHWAY SUBMITTAL****ESTIMATE OF QUANTITIES — DETAIL SHEET—**TOWN: MARION, MADATE: OCTOBER 2023**ITEM 357.06.****6 INCH GATE BOX**

<u>Location</u>	<u>Structure No.</u>	<u>Station</u>	<u>Offset</u>
SUP	HYD	132+50	RT
SUP	HYD	151+50	RT

**ITEM 357.12.****12 INCH GATE BOX**

<u>Location</u>	<u>Structure No.</u>	<u>Station</u>	<u>Offset</u>
SUP	HYD	132+50	RT
SUP	HYD	151+50	RT

**ITEM 358.****GATE BOX ADJUSTED**

<u>Location</u>	<u>Structure No.</u>	<u>Station</u>	<u>Offset</u>
SUP	HYD	101+38	RT
SUP	HYD	108+70	RT
SUP	HYD	117+60	RT
SUP	HYD	127+40	RT
SUP	HYD	157+19	RT
SUP	HYD	167+40	RT
Front St.		200+67	RT (13')
Front St.		200+75	RT (10')

**ITEM 369.06.****6 INCH TAPPING SLEEVE, VALVE, AND BOX**

<u>Location</u>	<u>Structure No.</u>	<u>Station</u>	<u>Offset</u>
SUP	HYD	132+50	RT
SUP	HYD	151+50	RT

**ITEM 370.4.****12 X 6 INCH TAPPING SLEEVE, VALVE, AND BOX**

<u>Location</u>	<u>Structure No.</u>	<u>Station</u>	<u>Offset</u>
SUP	HYD	132+50	RT
SUP	HYD	151+50	RT

**ITEM 371.06.****6 INCH COUPLING**

<u>Location</u>	<u>Structure No.</u>	<u>Station</u>	<u>Offset</u>
SUP	HYD	108+70	RT
SUP	HYD	127+40	RT

**ITEM 376.2.****HYDRANT REMOVE AND RESET**

<u>Location</u>	<u>Structure No.</u>	<u>Station</u>	<u>Offset</u>
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SUP	HYD	108+70	RT
SUP	HYD	127+40	RT
SUP	HYD	132+50	RT
SUP	HYD	151+50	RT

**ITEM 376.5.                    HYDRANT ADJUSTED**

<u>Location</u>	<u>Structure No.</u>	<u>Station</u>	<u>Offset</u>
SUP	HYD	117+60	RT
SUP	HYD	157+19	RT
SUP	HYD	167+40	RT

**ITEM 453.                    HMA JOINT SEALANT**

<u>Location</u>	<u>Station</u>
SUP	266+93
SUP	269+52
Front St.	
Spring St.	

**ITEM 470.                    HOT MIXED ASPHALT BERM**

<u>Location</u>	<u>Station</u>	to	<u>Station</u>	<u>Offset</u>
Front St.	100+52		102+12	LT
Front St.	102+25		103+00	LT
Spring St.	200-19		200+76	LT

**ITEM 470.2.                    HOT MIXED ASPHALT BERM, TYPE-A MODIFIED**

<u>Location</u>	<u>Station</u>
SUP	228+34
SUP	229+96
SUP	0+05
SUP	1+04
SUP	265+11
SUP	268+15
SUP	299+21

**ITEM 472.                    TEMPORARY ASPHALT PATCHING**

<u>Location</u>	<u>Station</u>	<u>Offset</u>	to	<u>Station</u>	<u>Offset</u>
Front St.	102+15	RT		102+13	RT
Front St.	200+23	LT		102+64	RT
Spring St.	200+48	RT		200+44	LT
Spring St.	200+62	LT		200+44	LT
Front St.	101+20	RT		101+75	RT

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Front St.            229+50    LT                    229+80    LT

Asphalt patching for temporary construction items, see Item 141.1 Test Pits for Exploration & Front St (RTE 105) Temporary Traffic Control Plan for more information.

**ITEM 506.                    GRANITE CURB TYPE B - STRAIGHT**

<u>Location</u>	<u>Station</u>	to	<u>Station</u>	<u>Offset</u>
Front St.	100+53		101+22	RT
Front St.	101+53		101+20	RT
Front St.	101+20		101+25	RT
Front St.	101+60		101+69	RT
Front St.	101+77		102+07	RT
Front St.	102+25		102+35	RT
Front St.	102+84		103+00	RT
Spring St.	200+49		200+79	RT
Spring St.	200+66		201+07	RT

**ITEM 506.1                    GRANITE CURB TYPE B - CURVED**

<u>Location</u>	<u>Station</u>	to	<u>Station</u>	<u>Offset</u>
Front St.	101+20		101+25	RT
Front St.	102+25		102+35	RT
Spring St.	200+19		200+66	RT
Spring St.	200+29		200+49	RT
Spring St.	201+16		201+18	RT

**ITEM 509.                    GRANITE TRANSITION CURB FOR PEDESTRIAN CURB RAMPS - STRAIGHT**

<u>Location</u>	<u>Station</u>	to	<u>Station</u>	<u>Offset</u>
Front St.	100+20		100+27	RT
Front St.	101+70		101+77	RT
Front St.	101+55		101+60	RT
Front St.	101+65		101+70	RT
Front St.	102+07		102+14	RT
Front St.	102+77		102+84	RT

**ITEM 509.1                    GRANITE TRANSITION CURB FOR PEDESTRIAN CURB RAMPS - CURVED**

<u>Location</u>	<u>Station</u>	to	<u>Station</u>	<u>Offset</u>
Front St.	102+76		102+80	RT
Spring St.	200+18		200+25	RT

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**ITEM 515.**                      **GRANITE CURB INLET - CURVED**

<u>Location</u>	<u>Station</u>	<u>Offset</u>
Spring St.	200+49	RT

**ITEM 580**                      **CURB REMOVED AND RESET**

<u>Location</u>	<u>Station</u>	to	<u>Station</u>	<u>Offset</u>
Front St.	100+53		101+20	RT
Spring St.	200+66		201.07	LT

**ITEM 594**                      **CURB REMOVED AND DISCARD**

<u>Location</u>	<u>Station</u>	to	<u>Station</u>	<u>Offset</u>
Front St.	102+00		102+40	RT
Front St.	101+52		200+66	RT

**ITEM 620.5.**                      **BICYCLE SAFETY FENCE WOOD**

<u>Location</u>	<u>Station</u>	to	<u>Station</u>	<u>Offset</u>
SUP	130+33		130+93	LT/RT
SUP	132+80		151+10	RT
SUP	133+80		151+10	LT
SUP	180+10		202+70	LT/RT
SUP	225+80		228+26.5	LT/RT
SUP	285+05		296+95	LT/RT

**ITEM 645.2.**                      **180 INCH CHAIN LINK FENCE-VINYL COATED**

<u>Location</u>	<u>Station</u>	to	<u>Station</u>	<u>Offset</u>
SUP	1+80		2+99	LT
SUP	251+25		254+99	RT

**ITEM 657.**                      **TEMPORARY FENCING**

<u>Location</u>	<u>Station</u>
SUP	101+10
SUP	228+34
SUP	229+87
SUP	003+10
SUP	265+22
SUP	268+03
SUP	299+77

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**ITEM 697.1**

**SILT SACK**

<u>Location</u>	<u>Station</u>	<u>Side</u>
Front St.	102+15	RT
Spring St.	200+23	LT
Spring St.	200+48	RT
Spring St.	200+62	LT

**ITEM 698.2**

**GEOTEXTILE FABRIC FOR SUBSURFACE DRAINAGE**

This item is to be used in the trench drains along the shoulders of the Shared Use Path and Washburn Park. See Typical Sections for trench drain limits.

**ITEM 701.1**

**CEMENT CONCRETE SIDEWALK AT DRIVEWAYS**

<u>Location</u>	<u>Station</u>	to	<u>Station</u>	<u>Offset</u>
Front St.	101+20		101+75	RT

**ITEM 701.2.**

**CEMENT CONCRETE PEDESTRIAN CURB RAMP**

<u>Location</u>	<u>Station</u>	to	<u>Station</u>	<u>Offset</u>
Front St.	102+12		102+25	LT
Front St.	102+12		102+25	RT
Front St.	102+26		102+35	LT
Front St.	102+71		102+88	LT

**ITEM 702.**

**HOT MIX ASPHALT SIDEWALK FOR DRIVEWAY**

<u>Location</u>	<u>Station</u>	to	<u>Station</u>	<u>Offset</u>
Front St.	101+20		101+75	RT
Front St.	100+54		101+20	RT
Front St.	101+75		102+10	RT
Front St.	102+12		102+25	LT
Front St.	102+88		103+00	RT
Front St.	200+23		201+18	RT

**ITEM 707.1.**

**PARK BENCH**

<u>Location</u>	<u>Station</u>	<u>Offset</u>
SUP	101+35	LT/RT
SUP	115+25	LT/RT
SUP	129+60	LT/RT
SUP	141+10	LT/RT
SUP	158+90	LT/RT
SUP	170+00	LT/RT
SUP	179+60	LT/RT

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SUP	203+50	LT/RT
SUP	221+05	LT/RT
SUP	247+70	LT/RT
SUP	252+85	LT/RT
SUP	262+70	LT/RT
SUP	277+60	LT/RT
SUP	299+30	LT/RT

**ITEM 715.**                      **RURAL MAIL BOX REMOVE AND RESET**

<u>Location</u>	<u>Station</u>	<u>Offset</u>
SUP	300+82	RT

**ITEM 755.**                      **WETLAND REPLICATION AREA**

<u>Location</u>	<u>Station</u>	<u>Offset</u>
SUP	283+90	LT

**ITEM 767.121.**                      **SEDIMENT CONTROL BARRIER**

<u>Location</u>	<u>Station</u>	to	<u>Station</u>	<u>Offset</u>
SUP	101+10		228+37	LT/RT
SUP	229+90		267+82	LT/RT
SUP	0+00		2+99	LT/RT
SUP	268+00		299+80	LT/RT

**ITEM 796.455.**                      **SWITCH GRASS 2 GALLON**

<u>Location</u>	<u>Station</u>
SUP	228+34
SUP	229+97
SUP	0+05
SUP	1+04
SUP	265+11
SUP	268+15
SUP	299+21

**ITEM 804.3.**                      **3 INCH ELECTRICAL CONDUIT TYPE NM – PLASTIC – (UL)**

<u>Location</u>	<u>Station</u>	to	<u>Station</u>	<u>Offset</u>
Front St.	102+02		102+26	LT -RT

**ITEM 811.31.**                      **PULL BOX 12 X 12 INCHES – SD2.031**

<u>Location</u>	<u>Station</u>	<u>Offset</u>
Front St.	102+05	RT (16')

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Front St. 102+05 LT (17')

**ITEM 824.211.                    RECTANGULAR RAPID FLASHING BEACON**

This item will be included with the pedestrian street crossing signage at the Front and Spring Street Intersection.

**ITEM 832.                                    WARNING-REGULATORY AND ROUTE MARKER-ALUM. PANEL (TYP. A)**

<u>Sign Code</u>	<u>Station</u>	<u>Offset</u>
W8-3	102+11	LT
W8-3	106+50.5	LT
W16-2AP	106+50.5	LT
W1-2R	224+39	RT
W1-2L	226+29	LT
W3-1	227+24	RT
MA-D3-2A	228+24	RT
R1-1 (BIKE)	228+24	RT
R5-3	228+25	LT
W11-15	100+96	RT
W11-15P	100+96	RT
W16-9P	100+96	RT
W11-15	103+72	LT
W11-15P	103+72	LT
W16-9P	103+72	LT
R5-3	229+97	RT
MA-D3-1a	229+96	LT
R1-1 (BIKE)	229+96	LT
W3-1	230+97	LT
W1-2L	254+06	LT
W1-2L	254+50	RT
W1-2R	256+47	LT
W3-1	0+76	RT
R5-3	1+05	RT
R7-8	1+47	LT
R7-8P	1+47	LT
W8-3	2+85	LT
R1-1 (BIKE)	258+10	RT
W1-3R	259+84	RT
W1-2L	262+14	LT
W3-1	264+16	RT
MA-D3-3	265+13	RT
R1-1 (BIKE)	265+13	RT
R5-3	265+34	RT
R5-3	265+19	LT
W11-15	265+23	LT

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W11-15P	265+23	LT
R1-1 (BIKE)	265+51	LT
R4-7	267+86	LT
R5-3	267+89	LT
W11-15	268+13	RT
W11-15P	268+13	RT
R1-1 (BIKE)	268+14	RT
MA-D3-3	268+09	LT
R1-1 (BIKE)	268+09	LT
W3-1	269+07	LT
W1-5R	289+37	RT
W1-5L	291+28	LT
W3-1	298+28	RT
MA-D3-4	299+27	RT
R1-1 (BIKE)	299+27	RT
R7-8	299+27	LT
R7-8P	299+27	LT
R5-3	299+28	LT

**ITEM 847.1.**

**SIGN SUP (N/GUIDE)+RTE MKR W/1 BRKWAY POST ASSEMBLY - STEEL**

<u>Station</u>	<u>Offset</u>
102+11	LT
106+50.5	LT
224+39	RT
226+29	LT
227+24	RT
228+24	RT
228+25	LT
200+22	LT
100+96	RT
103+72	LT
229+97	RT
229+97	RT
229+96	LT
230+97	LT
254+06	LT
254+50	RT
256+47	LT
0+76	RT
1+05	RT
1+47	LT
2+85	LT
258+10	RT
259+84	RT
262+14	LT

**—100% DESIGN HIGHWAY SUBMITTAL**

**ESTIMATE OF QUANTITIES — DETAIL SHEET—**

TOWN: MARION, MA

DATE: OCTOBER 2023

264+16	RT
265+13	RT
265+34	RT
265+19	LT
265+23	LT
265+51	LT
267+86	LT
267+89	LT
268+13	RT
268+13	RT
268+14	RT
268+09	LT
268+09	LT
269+07	LT
289+37	RT
291+28	LT
298+28	RT
299+27	RT
299+27	LT
299+28	LT

**ITEM 864.04.**

**PAVEMENT ARROWS AND LEGENDS – WHITE/THERMO**

“STOP AHEAD” warning to be installed on the SUP 100’ before warning panel/conc. sidewalks at stations listed.

<u>Location</u>	<u>Station</u>
SUP	227+34
SUP	230+90
SUP	1+10
SUP	264+20
SUP	269+00
SUP	298+40

Handicap Parking Space Symbol to be installed on the handicap parking space located at the stations listed.

<u>Location</u>	<u>Station</u>	<u>Offset</u>
SUP	1+47	RT
SUP	299+40	LT

**ITEM 866.106.**

**6 INCH REFLECTORIZED WHITE LINE-THERMO**

This item is to be used at all parking lot areas along the Shared-Use Path, Washburn Lane, and Point Road according to the approved Sign and Pavement Marking Plan.

<u>Location</u>	<u>Station</u> to	<u>Station</u>
Washburn Park Parking Lot	1+07	2+99

**—100% DESIGN HIGHWAY SUBMITTAL**

**ESTIMATE OF QUANTITIES — DETAIL SHEET—**

TOWN: MARION, MA

DATE: OCTOBER 2023

Point Road Parking Lot                      299+31      299+75

**ITEM 866.112.                      12 INCH REFLECTORIZED WHITE LINE-THERMO**

This item is to be used at all road intersections along the Shared-Use Path, Route 105 Intersection, Washburn Lane, and Point Road according to the approved Sign and Pavement Marking Plan.

<u>Stop Lines</u>	<u>Location</u>	<u>Station</u>
	SUP	228+25
	Spring St.	200+24
	SUP	229+95
	SUP	0+15
	SUP	265+12
	SUP	268+12
	SUP	299+24

<u>Crosswalk Lines</u>	<u>Location</u>	<u>Station</u>
	Front St.	102+19
	Spring St.	200+13

**ITEM 874.                      STREET NAME SIGN**

<u>Sign Code</u>	<u>Station</u>	<u>Offset</u>
MA-D3-1	200+25	LT
MA-D3-2	200+25	LT

**ITEM 903.                      3000 PSI, 1.5 INCH, 470 CEMENT CONCRETE**

This item is to be used for hydrant backing.

<u>Location</u>	<u>Station</u>
SUP	108+65
SUP	117+60
SUP	127+35
SUP	132+50
SUP	151+50
SUP	157+19
SUP	167+40

**ITEM 983.1                      RIPRAP**

<u>Location</u>	<u>Station</u>	<u>Offset</u>
SUP	225+50	RT

**ITEM 986.                      MODIFIED ROCK FILL**

<u>Location</u>	<u>Station</u>	to	<u>Station</u>
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**—100% DESIGN HIGHWAY SUBMITTAL**

**ESTIMATE OF QUANTITIES — DETAIL SHEET—**

TOWN: MARION, MA

DATE: OCTOBER 2023

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SUP	101+11	106+75
SUP	107+75	108+75
SUP	109+75	110+75
SUP	112+25	114+25
SUP	130+75	131+75
SUP	132+75	137+25
SUP	133+75	136+25
SUP	137+25	145+75
SUP	140+25	142+25
SUP	143+25	145+75
SUP	149+75	151+75
SUP	150+25	153+25
SUP	158+75	160+25
SUP	160+25	163+25
SUP	166+25	167+25
SUP	176+25	177+75
SUP	180+25	189+75
SUP	180+25	202+75
SUP	191+25	198+25
SUP	199+25	202+75
SUP	204+75	207+25
SUP	227+75	228+32
SUP	229+87	230+0
SUP	233+25	234+25
SUP	241+25	242+75
SUP	242+75	244+75
SUP	249+75	250+75
SUP	252+75	254+75
SUP	252+75	256+25
SUP	260+75	261+75
SUP	268+25	272+25
SUP	268+25	272+75
SUP	280+75	292+25
SUP	280+75	282+25
SUP	283+25	292+25
SUP	293+25	294+25
SUP	293+25	294+25
SUP	295+25	296+25

This item is to be used as the underlying layer for the modified rock on the shoulder slopes of the Shared-Used Path, Route 105 Intersection, and Washburn Park where the slope is steeper than 1.5:1.0.