1. Contractor shall coordinate with MBTA Bus Operations prior to and during the work.

2. The minimum mounting height of post-mounted signs, measured vertically from the bottom of the sign to the top of the curb or sidewalk, or to the property lines, shall be at least 6 feet. Exact locations are not guaranteed. Property lines have been established from available information and their exact locations are not guaranteed. The contractor shall coordinate with the City Planning Department prior to and during the work and promptly notify the engineer of any discrepancies.

3. Vertical Datum:

   a. NAVD(83) based on GPS observation by VHB using (2011 - Mainland Zone) Epoch 2010.0

   b. The locations of existing underground utilities are shown in an information plan. Any construction that affects roadways shall be at no expense to the owner.

4. Horizontal Datum:

   a. The right-of-way from grove street to Huron street are based on record plans.

   b. The right-of-way from Huron Avenue to the city of Watertown is based on an on-the-ground instrument survey performed by VHB in May, 2008. The network of GPS observations, based on the 1983 city of Cambridge GIS control network, was obtained from plans by SMC Surveying and Mapping Consultants and provided to VHB. VHB has converted the original datum of NGVD(29) to NAVD(83) as determined by SMC’s project network. The plan was based on an on-the-ground instrument survey performed by VHB in May, 2008.

   c. The right-of-way from grove street to Huron street are based on record plans.

   d. VHB located sufficient monuments referenced on said plan #346 of 2013. The right-of-way from grove street to Huron street are based on record plans. Refer to path sign placement detail on sheet 84 for additional information.

   e. Any construction that affects roadways shall be at no expense to the owner.

5. Contractors shall adjust gas, electric, telephone and any other private utilities by actions of the contractor, the contractor shall have the boulders replaced at no expense to the owner.

   a. Where an existing utility is found to conflict with the proposed work, the location of the utility shall be precisely located by the contractor at no expense to the owner. The contractor shall coordinate with the city planning department prior to and during the work and promptly notify the engineer of any discrepancies.

   b. The contractor shall make all arrangements for the alteration and adjustment of gas, electric, telephone and any other private utilities by actions of the contractor, the contractor shall have the boulders replaced at no expense to the owner.

6. The contractor shall exercise due care when working around all property lines and/or realigned by a licensed professional surveyor as directed by the engineer.

   a. Areas outside the limits of record plans shown on the plans shall be marked by a licensed professional surveyor as directed by the engineer. The contractor shall provide a copy of the survey report to the engineer.

   b. Any construction that affects roadways shall be at no expense to the owner.

7. The contractor shall make all arrangements for the alteration and adjustment of gas, electric, telephone and any other private utilities by actions of the contractor, the contractor shall have the boulders replaced at no expense to the owner.

8. The contractor shall repair any and all damages which may be occasioned by the contractor's failure to exact locate and preserve any and all underground utilities.

   a. The contractor shall repair any and all damages which may be occasioned by the contractor's failure to exact locate and preserve any and all underground utilities.

9. The contractor shall repair any and all damages which may be occasioned by the contractor's failure to exact locate and preserve any and all underground utilities.

   a. The contractor shall repair any and all damages which may be occasioned by the contractor's failure to exact locate and preserve any and all underground utilities.

   b. The contractor shall repair any and all damages which may be occasioned by the contractor's failure to exact locate and preserve any and all underground utilities.
TYPICAL SECTION UNDER EXISTING BRIDGE

WATERTOWN/CAMBRIDGE GREENWAY

STA 10+40 to STA 10+54 (GROVE ST) - *TOLERANCE FOR CONSTRUCTION ±5% STA 10+55 to STA 10+60 (OFF AUBURN ST) STA 16+96 to STA 17+01 (AUBURN AV) STA 27+55 to STA 28+00 (CAMBRIDGE WATER DEPARTMENT)

LEVELING COURSE AS A BASE OVER EXIST BALLAST OR CONCRETE SLAB.

NOTES:
1. HOT MIX ASPHALT SHALL BE PRODUCED WITH A WARM-MIX ASPHALT ADDITIVE.
2. ALL HOT MIX ASPHALT PAVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 450 QUALITY ASSURANCE FOR HMA AND SHALL BE PRODUCED IN ACCORDANCE WITH SECTION 455 SUPERPAVE HMA SPECIFICATIONS.
3. EXCEPT FOR TACK COAT, ASPHALT EMULSION SHALL BE APPLIED FOR DOUBLE OVERLAP COVERAGE AT 0.05 GALLONS PER SQUARE YARD OVER SMOOTH SURFACES.
4. HOT MIX ASPHALT JOINT SEALANT (ASPHALT RUBBER) SHALL BE APPLIED IN SURFACE COURSE AT ALL VERTICAL COLD JOINTS PRIOR TO COLD FABRIC FOR 2:1 BACKSLOPES.
5. HOT MIX ASPHALT WALKS SHALL BE PRODUCED IN ACCORDANCE WITH SECTION 455 SUPERPAVE HMA SPECIFICATIONS.

TYPICAL SECTION WITH DRAINAGE SWALE ON RIGHT

WATERTOWN/CAMBRIDGE GREENWAY

STA 2+00 to STA 4+75 - *TOLERANCE FOR CONSTRUCTION ±5% STA 4+76 to STA 5+00 (PATH) STA 7+50 to STA 8+00 (RT) STA 17+75 to STA 19+75 RT

NOTES:
* ALL HOT MIX ASPHALT SHALL BE PRODUCED WITH A WARM-MIX ASPHALT ADDITIVE.
1. HOT MIX ASPHALT WALKS SHALL BE PRODUCED IN ACCORDANCE WITH SECTION 455 QUALITY ASSURANCE FOR HMA AND SHALL BE PRODUCED IN ACCORDANCE WITH SECTION 455 SUPERPAVE HMA SPECIFICATIONS.
2. ALL HOT MIX ASPHALT PAVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 450 QUALITY ASSURANCE FOR HMA AND SHALL BE PRODUCED IN ACCORDANCE WITH SECTION 455 SUPERPAVE HMA SPECIFICATIONS.
3. EXCEPT FOR TACK COAT, ASPHALT EMULSION SHALL BE APPLIED FOR DOUBLE OVERLAP COVERAGE AT 0.05 GALLONS PER SQUARE YARD OVER SMOOTH SURFACES.
4. HOT MIX ASPHALT JOINT SEALANT (ASPHALT RUBBER) SHALL BE APPLIED IN SURFACE COURSE AT ALL VERTICAL COLD JOINTS PRIOR TO COLD FABRIC FOR 2:1 BACKSLOPES.
5. HOT MIX ASPHALT WALKS SHALL BE PRODUCED IN ACCORDANCE WITH SECTION 455 SUPERPAVE HMA SPECIFICATIONS.
6. ALL HOT MIX ASPHALT WALKS SHALL BE MEASURED AND PAID FOR UNDER ITEM 702 OF STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.
**TYPICAL SECTION WITH WETLAND REPLICATION**

**WATERTOWN/CAMBRIDGE GREENWAY**

1. **TOLERANCE FOR CONSTRUCTION ±0.5%**

   - STA 62+40± to STA 65+10±

2. **NTS SEE CROSS SECTIONS FOR MORE INFORMATION**

**PAVEMENT NOTES**

- See Sheet 57 for Coir Log Details. The number of rows of Coir Logs varies - see plans & cross sections. Final placement and elevation of Coir Log rows to be adjusted in the field around existing trees to remain.

- Prop Jute Mesh Erosion Control Fabric for 2:1 slopes located at STA 62+00 to 63+50 RT.

- Prop Double Stacked Coir Log Rows (Typ).

**TYPICAL SECTION WITH COIR LOGS**

**WATERTOWN/CAMBRIDGE GREENWAY**

- Prop Double Stacked Coir Log Rows (Typ).

**TYPICAL SECTION WITH WETLAND REPLICATION**

**WATERTOWN/CAMBRIDGE GREENWAY**

- Prop Ordinary Borrow or excavated material.

- Prop 6" Loam & Seed (Typ).

- Prop 6" Loam & Seed (Typ).

- Prop Compost & Seed above top row of Coir Logs.

- Prop Full Depth Pavement (Bike Path).

- Prop Ordinary Borrow or excavated material.

- Prop Compost & Seed above top row of Coir Logs.

- Prop Ordinary Borrow or excavated material.

- Prop 6" Loam & Seed.

- Prop Muck Excavation within limit of Existing Wetland.

- Prop 12" Wetland Soil & Wetland Seed.

- Prop 12" Wetland Soil & Wetland Seed.

- Prop 12" Wetland Soil & Wetland Seed.
1. TREE TRIMMING SHALL BE COMPLETED WHERE REQUIRED DURING CLEARING OPERATIONS. TREES LOCATED OUTSIDE OF THE LIMITS OF GRADING SHOWN SHALL BE TRIMMED IF THEIR CANOPY IS 10 FT OR LOWER AND OVERHANGING THE LIMIT.

2. SEE LANDSCAPING PLANS FOR ADDITIONAL INFORMATION.

3. FOR ADDITIONAL CONSTRUCTION BASELINE AND Traverse TIE information see the Alignment & Grading Plans and Baseline & Traverse Data Sheets.

4. DCR, Resident Engineer and Landscape Architect shall walk site prior to the start of construction operations to determine trees and vegetation that shall be removed beyond the limits of grading shown. Specimen trees to be protected within and beyond the limits of grading will be determined at this time.
NOTES:
1. TREE TRIMMING SHALL BE COMPLETED WHERE REQUIRED DURING CLEARING OPERATIONS. TREES LOCATED OUTSIDE OF THE LIMITS OF GRADING SHOWN SHALL BE TRIMMED IF THEIR CANOPY IS 10 FT OR LOWER AND OVERHANGING THE LIMIT.
2. SEE LANDSCAPING PLANS FOR ADDITIONAL INFORMATION.
3. FOR ADDITIONAL CONSTRUCTION BENCHMARK AND TRAVERSE DATA SHEETS.
4. DCR, RESIDENT ENGINEER AND LANDSCAPE ARCHITECT SHALL WALK SITE PRIOR TO THE START OF CONSTRUCTION OPERATIONS TO DETERMINE TREES AND VEGETATION THAT SHALL BE REMOVED BEYOND THE LIMITS OF GRADING SHOWN. SPECIMEN TREES TO BE PROTECTED WITHIN AND BEYOND THE LIMITS OF GRADING WILL BE DETERMINED AT THIS TIME.

LEGEND
- DRAINAGE STRUCTURE #
- WORK (SEE ALIGNMENT & GRADING PLANS)
1. Tree trimming shall be completed where required during clearing operations. Trees located outside of the limits of grading shown shall be trimmed if their canopy is 10 ft or lower and overhanging the limits.
2. See landscaping plans for additional information.
3. For additional construction baseline and traverse tie information see traverse data sheets.
4. DCR, resident engineer and landscape architect shall walk site prior to the start of construction operations to determine trees and vegetation that shall be removed beyond the limits of grading shown. Specimen trees to be protected within and beyond the limits of grading will be determined at this time.

For profile see sheet 20.
NOTES:
1. Tree trimming shall be completed where required during clearing operations. Trees located outside of the limits of grading shown shall be trimmed if their canopy is 10 ft or lower and overhanging the limit.
2. See Undersized Plans for additional information.
3. Tree locations on right-of-way map information see the Alignment & Grading Plans and Baseline & Traverse Data sheets.
4. DCB Resident Engineer and Landscape Architect shall walk site prior to the start of construction operations to determine trees and vegetation that shall be removed beyond the limits of grading shown. DCB Resident Engineer and Landscape Architect shall determine within and beyond the limits of grading will be determined at this time.
5. The area previously (17+00± to 20+00±) has been disturbed and appears to have been filled since the time of the survey. Additional excavation may be required in this area to achieve proposed grades.

DRAINAGE STRUCTURE DATA

<table>
<thead>
<tr>
<th>#</th>
<th>TYPE</th>
<th>STATION</th>
<th>RIM ELEV.</th>
<th>INV. IN (EX)</th>
<th>INV. OUT</th>
<th>REMARKS</th>
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</thead>
<tbody>
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<td>31.50</td>
<td>29.50</td>
<td>28.20</td>
<td>Verify Bottom of Structure elevation. Adjust Prop Outlet pipe &amp; outfall as required.</td>
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LEGEND

- DRAINAGE STRUCTURE #
- WORK (SEE ALIGNMENT & GRADING PLANS)

DCR GREENWAY DRAINAGE STRUCTURE DATA

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<tr>
<th>#</th>
<th>TYPE</th>
<th>STATION</th>
<th>RIM ELEV.</th>
<th>INV. IN (EX)</th>
<th>INV. OUT</th>
<th>REMARKS</th>
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<td>11</td>
<td>EX DMH</td>
<td>19+69.3</td>
<td>31.50</td>
<td>29.50</td>
<td>28.20</td>
<td>Verify Bottom of Structure elevation. Adjust Prop Outlet pipe &amp; outfall as required.</td>
</tr>
</tbody>
</table>
NOTES:
1. TREE TRIMMING SHALL BE COMPLETED WHERE REQUIRED DURING CLEARING OPERATIONS. TREES PLANTED OUTSIDE OF THE LIMITS OF GRADING SHOWN SHALL BE TRIMMED IF THEIR CANOPY IS 10 FT OR LOWER AND OVERHANGING THE LIMIT.
2. SEE LANDSCAPING PLANS FOR ADDITIONAL INFORMATION.
3. FOR ADDITIONAL CONSTRUCTION BASELINE AND TRAVERSE TIE INFORMATION SEE THE ALIGNMENT & GRADING PLANS AND BASELINE & TRAVERSE DATA SHEETS.
4. DCR, RESIDENT ENGINEER AND LANDSCAPE ARCHITECT SHALL WALK SITE PRIOR TO THE START OF CONSTRUCTION OPERATIONS TO DETERMINE TREES AND VEGETATION THAT SHALL BE REMOVED BEYOND THE LIMITS OF GRADING SHOWN. SPECimen TREES TO BE PROTECTED WITHIN AND BEYOND THE LIMITS OF GRADING WILL BE DETERMINED AT THIS TIME.

SCALE: 1" = 20'
NOTES:
1. TREE TRIMMING SHALL BE COMPLETED WHERE REQUIRED DURING CLEARING OPERATIONS. TREES LOCATED OUTSIDE OF THE LIMITS OF GRADING SHOWN SHALL BE TRIMMED IF THEIR CANOPY IS 10 FT OR LOWER AND OVERHANGING THE LIMIT.
2. SEE LANDSCAPING PLANS FOR ADDITIONAL INFORMATION.
3. FOR ADDITIONAL CONSTRUCTION BASELINE AND TRAVERSE TIE INFORMATION SEE THE ALIGNMENT & GRADING PLANS AND BASELINE & TRAVERSE DATA SHEETS.
4. DCR, RESIDENT ENGINEER AND LANDSCAPE ARCHITECT SHALL WALK THE SITE PRIOR TO BEGINNING CONSTRUCTION OPERATIONS TO DETERMINE TREES AND VEGETATION THAT SHALL BE REMOVED BEYOND THE LIMITS OF GRADING SHOWN. SPECIMEN TREES TO BE PROTECTED WITHIN AND BEYOND THE LIMITS OF GRADING WILL BE DETERMINED AT THIS TIME.

LEGEND
- Drainage Structure #
- Work (See Alignment & Grading Plans)

Scale: 1" = 20'
1. TREE TRIMMING SHALL BE COMPLETED WHERE REQUIRED DURING CLEARING OPERATIONS. TREES LOCATED OUTSIDE OF THE LIMITS OF GRADING SHOWN SHALL BE TRIMMED IF THEIR CANOPY IS 10 FT OR LOWER AND OVERHANGING THE LIMIT.
2. SEE LANDSCAPING PLANS FOR ADDITIONAL INFORMATION.
3. FOR ADDITIONAL CONSTRUCTION BASELINE AND TRAVERSE TIE INFORMATION SEE THE ALIGNMENT & GRADING PLANS AND BASELINE & TRAVERSE DATA SHEETS.
4. DCR, RESIDENT ENGINEER AND LANDSCAPE ARCHITECT SHALL WALK SITE PRIOR TO THE START OF CONSTRUCTION OPERATIONS TO DETERMINE TREES AND VEGETATION THAT SHALL BE REMOVED BEYOND THE LIMITS OF GRADING SHOWN. SPECIMEN TREES TO BE PROTECTED WITHIN AND BEYOND THE LIMITS OF GRADING WILL BE DETERMINED AT THIS TIME.

FOR PROFILE SEE SHEET 21.
NOTES:
1. TREE TRIMMING SHALL BE COMPLETED WHERE REQUIRED DURING CLEARING OPERATIONS. TREES LOCATED OUTSIDE OF THE LIMITS OF GRADING SHOWN SHALL BE TRIMMED IF THEIR CANOPY IS 10 FT OR LOWER AND OVERHANGING THE LIMIT.
2. SEE LANDSCAPING PLANS FOR ADDITIONAL INFORMATION.
3. FOR ADDITIONAL CONSTRUCTION BASELINE AND TRAVERSE TIE INFORMATION SEE THE ALIGNMENT & GRADING PLANS.
4. DCR, RESIDENT ENGINEER AND LANDSCAPE ARCHITECT SHALL WALK SITE PRIOR TO THE START OF CONSTRUCTION OPERATIONS TO DETERMINE TREES AND VEGETATION THAT SHALL BE REMOVED BEYOND THE LIMITS OF GRADING SHOWN. SPECIMEN TREES TO BE PROTECTED WITHIN AND BEYOND THE LIMITS OF GRADING WILL BE DETERMINED AT THIS TIME.

LEGEND
- GRAINAGE STRUCTURE #
- PROP (SEE ALIGNMENT & GRADING PLANS)

FOR PROFILE SEE SHEET 21.
NOTES:
1. TREE TRIMMING SHALL BE COMPLETED WHERE REQUIRED DURING CLEARING Operations. TREES LOCATED OUTSIDE OF THE LIMITS OF GRADING SHOWN SHALL BE TRIMMED IF THEIR CANOPY IS 10 FT OR LOWER AND OVERHANGING THE LIMIT.
2. SEE LANDSCAPING PLANS FOR ADDITIONAL INFORMATION.
3. FOR ADDITIONAL CONSTRUCTION BASELINE AND TRAVERSE TIE INFORMATION SEE THE ALIGNMENT & GRADING PLANS AND BASELINE & TRAVERSE DATA SHEETS.
4. CITY ENGINEERING AND LANDSCAPE ARCHITECT SHALL WALK SITE PRIOR TO THE START OF CONSTRUCTION OPERATIONS TO DETERMINE TREES AND VEGETATION THAT SHALL BE REMOVED BEYOND THE LIMITS OF GRADING SHOWN. SPECIMEN TREES TO BE PROTECTED WITHIN AND BEYOND THE LIMITS OF GRADING WILL BE DETERMINED AT THIS TIME.

FOR PROFILE SEE SHEET 21-22.
NOTES:
1. TREE TRIMMING SHALL BE COMPLETED WHERE REQUIRED DURING CLEARING OPERATIONS. TREES LOCATED OUTSIDE OF THE LIMITS OF GRADING SHOWN SHALL BE TRIMMED IF THEIR CANOPY IS 10 FT OR LOWER AND OVERHANGING THE LIMIT.
2. SEE LANDSCAPING PLANS FOR ADDITIONAL INFORMATION.
3. FOR ADDITIONAL CONSTRUCTION BASELINE AND TRAVERSE TIE INFORMATION SEE THE ALIGNMENT & GRADING PLANS AND BASELINE & TRAVERSE DATA SHEETS.
4. DCR, RESIDENT ENGINEER AND LANDSCAPE ARCHITECT SHALL WALK SITE PRIOR TO THE START OF CONSTRUCTION OPERATIONS TO DETERMINE TREES AND VEGETATION THAT SHALL BE REMOVED BEYOND THE LIMITS OF GRADING SHOWN. SPECIMEN TREES TO BE PROTECTED WITHIN AND BEYOND THE LIMITS OF GRADING WILL BE DETERMINED AT THIS TIME.
WATERTOWN/CAMBRIDGE
WATERTOWN/CAMBRIDGE GREENWAY PHASE II

HIGHWAY GUARD DETAILS
STEEL BACKED TIMBER GUARDRAIL TERMINAL
65+33.8 TO 65+29.4 RT

WATER SUPPLY ALTERATIONS
SEE BELOW

DRAINAGE DETAILS
SEE BELOW

SECTION TO STA 65+29, 32.9' RT

TIMBER GUARDRAIL TERMINAL
BEGIN PROP STEEL-BACKED
RET (PATH)
PROP 12.00'
BEGIN
SAWCUT &
HIGHWAY GUARD DETAILS
APPROX LIMIT OF GRADING
65+15± TO 65+29± RT
BEGIN PROP SWALE +00
CLEARING & THINNING
PROP SELECTIVE
OF GRADING
APPROX LIMIT
WETLAND
VEGETATED
EASEMENT
CONST
SAWCUT & MEET EXIST WALK
CURB & HMA WALK
RET EX STONE WALL
32' - 12" RCP
PCC +97.18
GRAN CURB
BEGIN PROP
MEET EXIST CURB
BEGIN PROP
(BO)
REQUIRED
ADJ HYD AS
10
100
CONTINUED
CONTINUED ON SHEET NO. 18
N 2964975.2858
E 752674.3547

END PROJECT
STA 67+72.00
N 3964975.2858
E 752674.3547

SCALE: 1" = 20'

LEGEND
WORK (SEE ALIGNMENT & GRADING PLANS)

DRY GROUND STRUCTURE #

DCR GREENWAY DRAINAGE STRUCTURE DATA

TREE TRIIMMING SHALL BE COMPLETED WHERE REQUIRED DURING CLEARING OPERATIONS
TREES LOCATED OUTSIDE THE LIMITS OF GRADING SHOWN SHALL BE TRIMMED IF THEIR
CANOPY IS 10 FT OR LOWER AND OVERHANGING THE LIMIT.
2. SEE UPLAND PLANS FOR ADDITIONAL INFORMATION.
3. FOR ADDITIONAL CONSTRUCTION BASELINE AND TRAVERSE TIE INFORMATION SEE THE
ALIGNMENT & GRADING PLANS AND BASELINE & TRAVERSE DATA SHEETS.
4. USE UNDERGROUND LOCATION INFORMATION PRIOR TO THE START OF CONSTRUCTION OPERATIONS TO DETERMINE TREES AND VEGETATION THAT SHALL
BE REMOVED BEYOND THE LIMITS OF GRADING SHOWN. SPECIMEN TREES TO BE PROTECTED
WITHIN AND BEYOND THE LIMITS OF GRADING WILL BE DETERMINED AT THIS TIME.

FOR PROFILE SEE SHEET 22.
<table>
<thead>
<tr>
<th>STA (ft)</th>
<th>Prop Elev (ft)</th>
<th>Low Point Elev (ft)</th>
<th>PVI Elev (ft)</th>
<th>A.D.</th>
<th>K</th>
<th>60' VC PVC</th>
<th>PVT Elev (ft)</th>
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</tbody>
</table>

**Notes:**
- Low Point Elev: 16.42
- Low Point Sta: 48+87.86
- PVI Sta: 48+75.00
- PVI Elev: 16.33
- A.D.: 1.40%
- K: 42.86
- 60' VC PVC: 48+45
- Elev: 16.63
- PVT: 49+05
- Elev: 16.45

**LOW POINT ELEV = 13.25**
- Low Point Sta: 54+62.58
- PVI Sta: 54+50.00
- PVI Elev: 13.16
- A.D.: 1.55%
- K: 38.71
- 60' VC PVC: 54+20
- Elev: 13.49
- PVT: 54+80
- Elev: 13.29

**HIGH POINT ELEV = 17.08**
- High Point Sta: 50+71
- PVI Sta: 50+85.00
- PVI Elev: 17.17
- A.D.: -1.50%
- K: 40.00
- 60' VC PVC: 50+55
- Elev: 17.05
- PVT: 51+15
- Elev: 16.84

**HIGH POINT ELEV = 13.77**
- High Point Sta: 56+01.76
- PVI Sta: 56+00.00
- PVI Elev: 13.83
- A.D.: -0.85%
- K: 70.59
- 60' VC PVC: 55+70
- Elev: 13.70
- PVT: 56+30
- Elev: 13.71
BEGIN PROJECT
STA 0+50.00
N 39°56'22" E 74°05'25"
E 749218.8535

NOTE:
* TOLERANCE FOR CONSTRUCTION ±0.5%

SCALE: 1" = 20'

PROPOSED GREENWAY CROSS SLOPES
1.5%*
STA 1+25 TO STA 13+00

LEGEND
CURVE #
WCR #

CRAWFORD ST

PC +98.74
PT +38.47
PRC +82.29
L1
C1

SCALE: 1" = 20'

GROVE STREET (OVER HEAD)

LEGEND
CURVE #
WCR #

EXIST DCR ROW
EXIST DCR ROW

NOTE:
1. FOR CONSTRUCTION BASELINE AND
TRAVERSE DATA SEE SHEET 31.
*TOLERANCE FOR CONSTRUCTION ±0.5%

TRAV #14
PK NAIL
ELEV 31.55 STA 11+49.61, 3.74' RT

TRAV #13
PK NAIL
ELEV 33.98 STA 9+02.54, 14.90' LT

TRAV #12
PK NAIL
ELEV 32.98 STA 6+41.95, 6.88' RT

SURVEY TRAVERSE

SCALE: 1" = 20'

CRAWFORD ST

SCALE: 1" = 20'

EXIST DCR ROW
EXIST DCR ROW

NOTE:
1. FOR CONSTRUCTION BASELINE AND
TRAVERSE DATA SEE SHEET 31.
*TOLERANCE FOR CONSTRUCTION ±0.5%

TRAV #14
PK NAIL
ELEV 31.55 STA 11+49.61, 3.74' RT

TRAV #13
PK NAIL
ELEV 33.98 STA 9+02.54, 14.90' LT

TRAV #12
PK NAIL
ELEV 32.98 STA 6+41.95, 6.88' RT

SURVEY TRAVERSE

SCALE: 1" = 20'

EXIST DCR ROW
EXIST DCR ROW

NOTE:
1. FOR CONSTRUCTION BASELINE AND
TRAVERSE DATA SEE SHEET 31.
*TOLERANCE FOR CONSTRUCTION ±0.5%

TRAV #14
PK NAIL
ELEV 31.55 STA 11+49.61, 3.74' RT

TRAV #13
PK NAIL
ELEV 33.98 STA 9+02.54, 14.90' LT

TRAV #12
PK NAIL
ELEV 32.98 STA 6+41.95, 6.88' RT

SURVEY TRAVERSE

SCALE: 1" = 20'

EXIST DCR ROW
EXIST DCR ROW

NOTE:
1. FOR CONSTRUCTION BASELINE AND
TRAVERSE DATA SEE SHEET 31.
*TOLERANCE FOR CONSTRUCTION ±0.5%
PROPOSED GREENWAY CROSS SLOPES

- STA 13+25 to STA 14+75
- STA 14+75 to STA 15+00
- STA 15+00 to STA 22+85±

* TOLERANCE FOR CONSTRUCTION ±0.5%

NOTE:
- For construction baseline and traverse data see Sheet 31.
- For additional information see Sheet 85.
NOTE: FOR CONSTRUCTION BASELINE AND TRAVERSE DATA SEE SHEET 31.

1. FOR CONSTRUCTION BASELINE AND TRAVERSE DATA SEE SHEET 31.
BEGIN PROJECT
STA 0+50.00
N 2959322.8858 E 749218.8535

[Map Diagram]

INSET A
SCALE 1"=10'

INSET D
SCALE 1"=10'

INSET E
SCALE 1"=20'

Legend:
- Curve
- Tangent

Curve Table

<table>
<thead>
<tr>
<th>Curve</th>
<th>Delta</th>
<th>Radius</th>
<th>Length</th>
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<td>47°26'26&quot;</td>
<td>20.00</td>
<td>16.56</td>
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</table>

1. FOR CONSTRUCTION BASELINE AND TRAVERSE DATA SEE SHEET 31
*TOLERANCE FOR CONSTRUCTION ±0.5%
CONSTRUCTION NOTE:

1. All proposed pavement markings on roadways shall be reflectorized thermoplastic. All proposed pavement markings on greenway shall be reflective paint.
CONSTRUCTION NOTE:
1. ALL PROPOSED PAVEMENT MARKINGS ON ROADWAYS SHALL BE REFLECTORIZED THERMOPLASTIC. ALL PROPOSED PAVEMENT MARKINGS ON GREENWAY SHALL BE REFLECTIVE PAINT.

3' DYL W/ 9' GAPS
CONSTRUCTION NOTE:

1. All proposed pavement markings on roadways shall be reflectORIZED

2. All proposed pavement markings on greenway shall be reflective paint.

SCALE: 1" = 20'

CONTINUED ON SHEET NO. 33

CONTINUED ON SHEET NO. 35
CONSTRUCTION NOTE:
1. ALL PROPOSED PAINT MARKINGS ON ROADWAYS SHALL
   BE REFLECTORIZED THERMOPLASTIC. ALL PROPOSED
   PAINT MARKINGS ON GREENWAY SHALL BE REFLECTIVE
   PAINT.
2. RETAIN ALL EXISTING SIGNS UNLESS OTHERWISE NOTED.
3.hält all existing signs unless otherwise noted.

EXIST DCR ROW

SAWING STREET

ROAD XING
(SEE DETAIL ON SHEET 84)

BEGIN 2 BDG & 3' DYL STA 24+44

PROP 21' TEXTURIZED CROSSWALK

100' CROSSING RIAL ROAD

CONSTRUCTION NOTE:
1. ALL PROPOSED PAINT MARKINGS ON ROADWAYS SHALL
   BE REFLECTORIZED THERMOPLASTIC. ALL PROPOSED
   PAINT MARKINGS ON GREENWAY SHALL BE REFLECTIVE
   PAINT.
2. RETAIN ALL EXISTING SIGNS UNLESS OTHERWISE NOTED.

EXIST DCR ROW

END 3' DYL W/ 9' GAPS STA 21+86

SEE DETAIL ON SHEET 84
CONSTRUCTION NOTE:
1. ALL PROPOSED PAVEMENT MARKINGS ON ROADWAYS SHALL BE REFLECTORIZED THERMOPLASTIC. ALL PROPOSED PAVEMENT MARKINGS ON GREENWAY SHALL BE REFLECTIVE PAINT.
CONSTRUCTION NOTE:
1. ALL PROPOSED PAVEMENT MARKINGS ON ROADWAYS SHALL BE REFLECTORIZED THERMOPLASTIC.
   ALL PROPOSED PAVEMENT MARKINGS ON GREENWAY SHALL BE REFLECTIVE PAINT.

3' DYL W/ 9' GAPS

PARK AVENUE
EXIST CITY LO

HURON AVENUE
EXIST CITY LO

EXIST CAMBRIDGE ROW

EXIST DCR ROW

BELOW CONTINUED ON SHEET NO. 36

CONTINUED ABOVE

EXIST DCR ROW

EXIST CAMBRIDGE ROW

EXIST DCR ROW

EXIST CAMBRIDGE ROW
CONSTRUCTION NOTE:
1. ALL PROPOSED PAVEMENT MARKINGS ON ROADWAYS SHALL BE REFLECTORIZED THERMOPLASTIC. ALL PROPOSED PAVEMENT MARKINGS ON GREENWAY SHALL BE REFLECTIVE PAINT.
CONSTRUCTION NOTES:

1. ALL PROPOSED PAINT MARKINGS ON ROADWAYS SHALL BE REFLECTORIZED THERMOPLASTIC. ALL PAINTED PAINT MARKINGS ON GREENWAY SHALL BE REFLECTIVE PAINT.

2. RETAIN ALL EXISTING SIGNS UNLESS OTHERWISE NOTED.
**TRAFFIC SIGN SUMMARY**

<table>
<thead>
<tr>
<th>Code</th>
<th>Date</th>
<th>Text</th>
<th>Text Dimensions (Inches)</th>
<th>Number of ( R )s Required</th>
<th>Color</th>
<th>Backgmt</th>
<th>Legend</th>
<th>Backgmt Legend</th>
<th>Font</th>
<th>Unit Area (S.F)</th>
<th>Area in Square Feet</th>
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<tbody>
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<td>STOP</td>
<td>24&quot; 12&quot;</td>
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<td>R6-1R</td>
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<td>BLACK WHITE</td>
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<td>2 MTD W/ W11-15</td>
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**EXISTING SIGN SUMMARY**

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<td>R4-7p</td>
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<td>W3-1ap</td>
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**NOTE:** HIGH INTENSITY REFLECTIVE SHEETING SHALL BE USED FOR ALL SIGNS. SEE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
OPERATIONAL SIGNING

LANE CLOSURES SHOWN ARE FOR TEMPORARY CONSTRUCTION.

SCALE: NTS

NOTES:
1. ADDITIONAL ADVANCE WARNING SIGNS MAY BE NECESSARY AS DETERMINED BY THE ENGINEER
2. CONTROLS FOR PEDESTRIAN TRAFFIC ONLY, ARE SHOWN. VEHICULAR TRAFFIC SHALL BE MAINTAINED AS SHOWN ELSEWHERE.
3. STREET LIGHTING SHOULD BE CONSIDERED WHEN LOCATING CONTROL DEVICES.
4. INDICATES DIRECTION OF PEDESTRIAN TRAVEL.
5. ALL TEMPORARY PEDESTRIAN PATHWAYS SHALL COMPLY FULLY WITH ALL REQUIREMENTS OF THE MUTCD AND ALL APPLICABLE MAAB AND ADAAG REQUIREMENTS. CONTRACTOR SHALL MAINTAIN ADA COMPLIANT PEDESTRIAN ACCESS AT ALL TIMES, SPECIFICALLY INCLUDING PEDESTRIAN GUIDANCE SYSTEMS (PEDESTRIAN CHANNELIZING DEVICES) AT WORKZONES. ACCESS SHALL BE MAINTAINED ALONG ALL SIDEWALKS AND CROSSWALKS TO ALL ABUTTERS. ANY PEDESTRIAN DETOURS SHALL INCLUDE AN ADA COMPLIANT PEDESTRIAN DETOUR ROUTE WITH PROPER BARRICADES, RAMPS AND SIGNS.
6. CONTRACTOR SHALL MAINTAIN AS WIDE OF A PEDESTRIAN ACCESS AS POSSIBLE AT ALL TIMES. EXCEPT WHERE NECESSARY, THE CONTRACTOR MAY TEMPORARILY REDUCE PEDESTRIAN PATHWAYS TO 4 FEET IN WIDTH (EXCLUDING CURB) FOR NO MORE THAN 200 LINEAR FEET AT A TIME IN ACCORDANCE WITH ALL STANDARDS.
7. TEMPORARY WHEELCHAIR RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MASSDOT, MAAB, AND ADAAG REQUIREMENTS. CONTRACTOR MAY UTILIZE EXISTING WCR'S AS POSSIBLE OR AS APPROVED BY THE ENGINEER.

PEDESTRIAN BYPASS DETAIL

SCALE: NTS

NOTES:
1. SEE TAPER LENGTH FORMULA ON SHEET 41.
2. SEE BUFFER SPACING CHART ON SHEET 41.
3. SEE ADVANCED SIGN SPACING TABLE ON SHEET 41.
## TEMPORARY TRAFFIC CONTROL SIGNS

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<tr>
<th>ITEM NUMBER</th>
<th>WIDTH HEIGHT</th>
<th>TEXT</th>
<th>COLOR</th>
<th>TEXT DIMENSIONS (INCHES)</th>
<th>LEGEND</th>
<th>BORDER</th>
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### NOTES:
2. ALL SIGNS SHOWN GRAPHICALLY FOR INFORMATION ONLY. SIGN VENDOR SHALL FABRICATE ALL SIGNS IN ACCORDANCE WITH THE APPLICABLE STANDARDS.
BIKE LANE CLOSURE - CAMBRIDGE WATER DEPARTMENT INTERNAL ROADWAY

FRESH POND PARKWAY

PCMS #1 TEXT
14 DAYS PRIOR TO START OF CONSTRUCTION
40 FT. WORKZONE (TYP)

ROAD AND PATH WORK

NOTE: DATE TO BE COORDINATED WITH DEPARTMENT OF CONSERVATION AND RECREATION

PCMS #1 TEXT
7 DAYS AFTER START OF CONSTRUCTION
40 FT. WORKZONE (TYP)

ROAD AND PATH WORK

NOTE: DATE TO BE COORDINATED WITH DEPARTMENT OF CONSERVATION AND RECREATION

1. SEE SHEET TMP-1 FOR GENERAL NOTES & LEGEND INFORMATION.
2. CONTRACTOR SHALL COORDINATE WITH THE CITY OF CAMBRIDGE A MINIMUM OF 48 HOURS PRIOR TO THE CLOSURE AND DETOUR OF EXIST BIKE LANES ON THE INTERNAL CAMBRIDGE WATER DEPARTMENT ROADWAY.
3. POLICE DETAIL TO ALLOW BICYCLISTS TO TRAVEL IN BOTH DIRECTIONS ON THE EXIST INTERNAL CAMBRIDGE WATER DEPARTMENT ONE-WAY (SOUTHBOUND) ROADWAY AND ASSIST PEDESTRIANS ACROSS DRIVEWAY/ROADWAY.
4. POLICE DETAIL TO ALLOW TWO-WAY ALTERNATING TRAFFIC SETUP DURING CONSTRUCTION OF DRIVEWAY, CURB, AND SIDEWALK.
5. PCMS TO BE PLACED IN GRASS STRIP BETWEEN FRESH POND PARKWAY AND BICYCLE PATH. PCMS SHALL BE INSTALLED SUCH THAT IT IS VISIBLE TO BOTH BICYCLE PATH AND FRESH POND PARKWAY USERS.

NOTES:

1. SEE SHEET TMP-1 FOR GENERAL NOTES & LEGEND INFORMATION.
2. CONTRACTOR SHALL COORDINATE WITH THE CITY OF CAMBRIDGE A MINIMUM OF 48 HOURS PRIOR TO THE CLOSURE AND DETOUR OF EXIST BIKE LANES ON THE INTERNAL CAMBRIDGE WATER DEPARTMENT ROADWAY.
3. POLICE DETAIL TO ALLOW BICYCLISTS TO TRAVEL IN BOTH DIRECTIONS ON THE EXIST INTERNAL CAMBRIDGE WATER DEPARTMENT ONE-WAY (SOUTHBOUND) ROADWAY AND ASSIST PEDESTRIANS ACROSS DRIVEWAY/ROADWAY.
4. POLICE DETAIL TO ALLOW TWO-WAY ALTERNATING TRAFFIC SETUP DURING CONSTRUCTION OF DRIVEWAY, CURB, AND SIDEWALK.
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NOTES:
1. SEE SHEET TMP-1 FOR GENERAL NOTES & LEGEND INFORMATION.
2. POLICE DETAIL TO ALLOW TWO-WAY ALTERNATING TRAFFIC SETUP ONLY DURING CONSTRUCTION OF DRIVEWAY.
3. PCMS TO BE PLACED IN GRASS STRIP BETWEEN FRESH POND PARKWAY AND BICYCLE PATH. PCMS SHALL BE INSTALLED SUCH THAT IT IS VISIBLE TO BOTH BICYCLE PATH AND FRESH POND PARKWAY USERS.
NOTE:
Traffic signals shall be extended to flashing operation and closed off at all times. Traffic and access area entered to/from Belmont Street.

- Maintain existing crosswalk at all times.
- Prop reflectorized drums @ 10' O.C. (Typ).
- Prop work area (bridge repairs below).
- Eradicating existing SWL as necessary.
- Eradicating existing SL.

See Note 1.

Staging Plans
Workzone 3
MOUNT AUBURN STREET

TRAFFIC FLOW ARROW (TYP)

PROP. REFLECTORIZED DRUMS @ 10' O.C. (TYP)

SCALE: 1" = 20'

MOUNT AUBURN STREET

SHOULDER CLOSURE

W = 8'
S = 35 MPH
L/3 = 55' MIN
1/2 = 55' MIN

COTTAGE STREET

L/3 = 55' MIN
1/2 = 55' MIN

WATERTOWN-CAMBRIDGE WATERTOWN-CAMBRIDGE GREENWAY PHASE II

STAGING PLANS
WORKZONE 4

100' FROM STOP LINE