### Precast Concrete Curbings

**BEGIN PRECAST CONCRETE CURBING**

- **STA. 33+26.26**: EL. = 180.98
- **STA. 34+93.74**: EL. = 179.85

**END PRECAST CONCRETE CURBING**

- **STA. 34+47.13**: EL. = 179.65
- **STA. 34+10.00**: EL. = 179.14

**EXISTING GRADE**

<table>
<thead>
<tr>
<th>STA</th>
<th>EL.</th>
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<tbody>
<tr>
<td>30+00</td>
<td>188.15</td>
</tr>
<tr>
<td>30+50</td>
<td>187.05</td>
</tr>
<tr>
<td>31+00</td>
<td>185.96</td>
</tr>
<tr>
<td>31+50</td>
<td>184.86</td>
</tr>
<tr>
<td>32+00</td>
<td>183.76</td>
</tr>
<tr>
<td>32+50</td>
<td>182.66</td>
</tr>
<tr>
<td>33+00</td>
<td>181.56</td>
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<tr>
<td>33+50</td>
<td>180.51</td>
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**PROPOSED GRADE**

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<tr>
<td>30+00</td>
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</tr>
<tr>
<td>30+50</td>
<td>186.00</td>
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<tr>
<td>31+00</td>
<td>184.96</td>
</tr>
<tr>
<td>31+50</td>
<td>183.91</td>
</tr>
<tr>
<td>32+00</td>
<td>182.86</td>
</tr>
<tr>
<td>32+50</td>
<td>181.81</td>
</tr>
<tr>
<td>33+00</td>
<td>180.76</td>
</tr>
<tr>
<td>33+50</td>
<td>179.71</td>
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</tbody>
</table>

**Drive Layout**

- **Intersection**
- **US ROUTE 10**

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**Typical Sections**

- **5' SMH 3STA. 30+07.74:**
  - T.F. = 187.66
  - 15" PVC INV (IN) = 180.86
  - 12" PVC INV (IN) = 180.76
  - 15" PVC INV (OUT) = 180.76
  - **88' - 15" PVC @ 0.4%**

- **178' - 15" RCP @ 1%**
  - **STA. 31+62.80:**
    - T.F. = 184.20
    - 15" RCP INV (IN) = 179.35
    - 15" RCP INV (IN) = 178.44
    - 18" RCP INV (OUT) = 178.44
  - **STA. 32+23.41:**
    - T.F. = 182.81
    - 15" RCP INV (OUT) = 178.44
  - **STA. 34+57.45:**
    - T.F. = 179.00
    - 12" RCP INV (IN) = 174.85
    - 15" RCP INV (OUT) = 174.60
  - **STA. 34+56.70:**
    - T.F. = 179.00
    - 12" RCP INV (OUT) = 175.40

**Driveway**

- **Drive Layout**
- **Intersection**

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**Notes**

- **K = 55.00**
- **LP STA. 30+10.26:**
  - EL. = 187.33
  - 15" RCP INV (OUT) = 183.87
- **68' - 15" RCP @ 1%**
- **88' - 15" PVC @ 0.4%**
- **PRECAST CONCRETE CURBING**
- **EP: 36+00.00**
- **PT: 30+48.21**

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**Scale:**

- 1" = 20'
8" WHITE EPOXY RESIN PAVEMENT MARKING
(3' LINE, 3' SPACE)

4" WHITE EPOXY RESIN PAVEMENT MARKING
4" DOUBLE YELLOW EPOXY RESIN PAVEMENT MARKING
4" WHITE EPOXY RESIN PAVEMENT MARKING
4" YELLOW EPOXY RESIN PAVEMENT MARKING
4" WHITE EPOXY RESIN PAVEMENT MARKING

EPOXY RESIN PAVEMENT MARKINGS SYMBOLS, AND LEGEND
STOP BAR
STA 205+34.55
4" WHITE EPOXY RESIN PAVEMENT MARKING

EPOXY RESIN PAVEMENT MARKINGS, SYMBOLS, AND LEGEND

12" STOP BAR

STA 813+92.64

PHASE ONE
AVON VILLAGE CENTER
AVON, CONNECTICUT

NORTH MAIN STREET

MAIN STREET

GRADES, DRAINAGE AND PAVEMENT MARKING & SIGNS PLAN

SCOUTMAX

SCALE 1:200

GRA-10
MATCH EXISTING PAVEMENT MARKINGS
EPOXY RESIN PAVEMENT MARKINGS
SYMBOLS, AND LEGEND
12" STOP BAR
STA 116+35.00
4" WHITE EPOXY RESIN PAVEMENT MARKING
4" DOUBLE YELLOW EPOXY RESIN PAVEMENT MARKING
LEGEND:

- WORK AREA
- TEMPORARY TRAVEL LANES DURING CONSTRUCTION
- TYPE III BARRICADE

NOTE:
1. DEMOLISH EXISTING CONCRETE PAVED ROADWAY W/ ADJ. TREE PLANTED TRACTS
2. NON-PERMANENT PAVEMENT DURING CONSTRUCTION
3. CONSTRUCTION DATES TO BE MODIFIED TO COORDINATE WITH OTHER PROJECTS

STAGE IV

WORK AREA

TEMPORARY TRAVEL LANES DURING CONSTRUCTION

TYPE III BARRICADE
LEGEND:
- WORK AREA
- TEMPORARY TRAVEL LANES DURING CONSTRUCTION
- TYPE III BARRICADE

NOTES:
1. DEMOLISH EXISTING CONCRETE PAVED
2. Trailhead Warning During Staged
3. Designate Pedestrian Path During Construction
4. Pedestrian Path to be Widened to Accommodate

CONSTRUCTION SEQUENCE AND MAINTENANCE AND PROTECTION OF TRAFFIC PLAN
PAVEMENT TRANSITION DETAIL FOR PLACEMENT AT EXISTING PAVEMENT

EXISTING SUBBASE
EXISTING PAVEMENT
CUT BITUMINOUS CONCRETE PAVEMENT SLOPE AWAY FROM THE EXISTING PAVEMENT AND BASE TO PREVENT UNDERMINING

4" GRANITE SLOPED CURBING TO 6" VERTICAL GRANITE STONE CURBING TRANSITION

NEW GRANITE STONE CURBING ON EXISTING ROAD WITH 6" REVEAL
TRUCK APRON GRANITE STONE CURBING WITH 10" REVEAL
GRANITE SLOPE CURBING WITH 4" REVEAL FOR SPLITTER ISLAND
PRECAST CONCRETE CURBING ON PROPOSED ROAD WITH 6" REVEAL

NOTES:
1. FOR TRAFFIC CURBING PLACE CONCRETE ONLY AT CURVES, HARMONY CURVES EXCEPT
2. FOR TRAFFIC CURBING PLACED TO FAULT OR AT END CURVES ONLY
3. FOR TRAFFIC CURBING CONCRETE PLACED AT PLACE CURBING

<table>
<thead>
<tr>
<th>SEGMENT</th>
<th>WIDTH</th>
<th>DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>STRAIGHT</td>
<td>6 IN</td>
<td>18 IN</td>
</tr>
<tr>
<td>CURVED</td>
<td>6 IN</td>
<td>20 IN</td>
</tr>
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</table>
**Typical Sign Panel Attachment**

- **Typical Back-Up Plate**
  - Aluminum
  - 1/8" thick
  - I.D. = 3/16" x O.D. = 5/8" x Thickness = 1/16"

- **Aluminum Washer**
  - I.D. = 11/32" x O.D. = 11/16" x Thickness = 1/16"

- **Self Locking Nut (Aluminum)**
  - With Plastic or Fiber Insert

**Sign Panel Notes:**

1. Steel for posts shall conform to the mechanical requirements of ASTM A 36. 
2. Location of anchor bolts shall be designed to meet the wind loads specified for the area. 
3. Bolts - Hex Head, Integral Flange conforming to ASTM A325. Size is 5/16" - 18 UNC x 1 3/4" to 2 1/2". Grade is grade 5B for 3.00 LB./FT. posts & grade 5D for 4.00 LB./FT. posts. 
4. Nuts - 5/16" - 18 UNC Hex Head, Integral Flange conforming to ASTM A563, grade DH. 
5. Lockwashers - 3/8" heavy duty external type.

**Typical Pavement Markings**

- **Stop Bar Notes:**
  1. Stop bars to be 12" minimum unless noted on plans. 
  2. Stop bars to be nosing a maximum of 1/2" in advance of breakaway edge of post.
  3. In absence of marked crosswalk, the stop bar shall be placed at the edge of the roadway.
  4. Stop bars shall be placed in line with the stop edge. If the stop edge cannot be located exactly under the stop bar, it should be placed no more than 1/4" to the left of the stop edge.
  5. Only full length bars are to be installed at corners.
  6. 1/4" wide bars are to be used outside of yellow crosswalk, for 2" wide bars, center space between bars on yellow crosswalk.

- **Crosswalk Notes:**
  1. At mid block and unsignalized intersections (except all-way stop controlled), 17 1/8" long x 1" wide x 3/8" thick, with 3/8" offset.
  2. Retainer-spacer strap should be galvanized to ASTM A 123.

**Stop Bar Notes:**

1. Steel for posts shall conform to the mechanical requirements of ASTM A 499-81 Grade 60 and to the chemical requirements of ASTM A 36. 
2. Installations shall be in accordance with manufacturers recommendations.
3. Type A Posts - 3 LB/FT

**Sign Posts**

- Not to scale
ERECTION NOTE: FOR MAXIMUM EFFECTIVENESS AND TO ELIMINATE OR MINIMIZE SPECULAR GLARE, POSITION SIDE MOUNTED SIGNS AS FOLLOWS:

A. ON A TANGENT SECTION, POSITION THE SIGN SO THE VERTICAL AXIS IS 3/80%$1'7+(+25,=217$/$;,6,6$7$1$1*/(2)ƒ:,7+7+($.

B. ON A HORIZONTAL CURVE SECTION, POSITION THE SIGN SO THE VERTICAL STRAIGHT LINE BETWEEN THE SIGN AND THE POINT AT WHICH THE SIGN SHALL BE READ.

TRAFFIC WARNING AND REGULATORY SIGN

NOTES:

1. POSTS - SEE DETAIL "METAL SIGN POST DETAIL"

2. POSTS - TYPE A (EXCEPT WHERE NOTED WITH A "B" FOR TYPE B)

3. ALL TRAFFIC SIGN POSTS ARE FOR LONG TERM INSTALLATION.

4. SIGNS TO BE AS INDICATED BY THE ENGINEER.

5. MATERIALS & COLORS SHALL CONFORM TO STATE SPECIFICATIONS. SPlicing OF SHEET ALUMINUM WILL NOT BE ACCEPTED.

6. BACKGROUND SHEETING SHALL BE TYPE IV RETROREFLECTIVE SHEETING, EXCEPT NOTED BY *.

7. SIGNS TO BE "BRIGHT WIDE ANGLE RETORREFLECTIVE SHEETING".

8. "E" DENOTES EDGE OF SHOULDER OR FACE OF CURB.

9. "F" DENOTES EDGE OF TRAVELWAY.

10. * OR AS DIRECTED BY THE ENGINEER

TRAFFIC WARNING SIGNS

N.T.S

TRAFFIC REGULATORY SIGNS

N.T.S

TYPICAL REGULATORY & WARNING SIGN PLACEMENT

TYPICAL REGULATORY & WARNING SIGN PLACEMENT DIMENSIONS

SIGN ORIENTATION DETAILS

NOT TO SCALE

TEMPORARY DELINERATOR

NOT (TPP)

DETECTABLE WARNING STRIP (TWS)

GRANITE CURB LAYOUT

PERMANENT DELINERATOR SLOT DETAIL

NOTES

1. ALL COLORS TO BE INSHOT OR FIXED POSITION.

2. MATERIALS & COLORS SHALL BE AS INDICATED BY THE ENGINEER.

3. SIGNS TO BE "BRIGHT WIDE ANGLE RETORREFLECTIVE SHEETING".

TYPICAL PAVEMENT MARKINGS AT SPLITTER ISLANDS

TYPICAL PAVEMENT MARKINGS AT SPLITTER ISLANDS N.T.S

BIKE LANE MARKING

SHARED BICYCLE LANE MARKING

DETAIl N.T.S
**CONSTRUCTION SIGNS**

**CONSTRUCTION BARRICADES**

**TRAFFIC CONES**

**TRAFFIC DRUMS**

**NOTES FOR PORTABLE SUPPORTS:**
1. SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD. SUPPORTS SHALL BE STABILIZED IN A MANNER THAT WILL NOT AFFECT THEIR COMPLIANCE WITH NCHRP REPORT 350 (TL-3).

**TRAFFIC CONE NOTES:**
1. TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD. CONES MOUNTED EXPERIENCE AN UPWARD DRAFT PRIOR TO THE IMPACT OF THE WIND AND/OR THE NRW. CONE MATERIALS MIGHT BE COLOR IMPREGNATED. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.

**CONSTRUCTION BARRICADES NOTES:**
1. CONSTRUCTION BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD. BARRICADE WARNING LIGHTS (AS REQ'D) SHOULD BE MOUNTED BEHIND SIGNS SO THAT ONLY ILLUMINATED PORTION IS EXPOSED TO VIEW. MOUNT ON EDGE OF SIGN NEAREST TRAFFIC LANE.

**TRAFFIC DRUM NOTES:**
1. TRAFFIC DRUM SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD. DRUMS MAY ONLY BE INSTALLED ON TYPE III BARRICADES AND SHALL BE PLACED SO AS NOT TO COVER MORE THAN ONE BARRICADE RAIL.