100% SUBMITTAL

DESIGNATION (MYSTIC AVENUE (ROUTE 38))

- Design Speed
  - ADT (2018): 32,800
  - ADT (2028): 36,000

- K
  - 8.2%

- D
  - 60% (NB)

- T (PEAK HOUR)
  - 1.0%

- T (AVERAGE DAY)
  - 3.6%

- DHV
  - 2,950

- DDHV (NB)
  - 1,750

FUNCTIONAL CLASSIFICATION: URBAN MINOR ARTERIAL

SCALE: 1" = 200'
ROUTE 93
NORTHERN EXPRESSWAY
(PUBLIC)

GARFIELD AVENUE (PUBLIC)

KENSINGTON AVENUE (PUBLIC)

MYSTIC AVENUE (PUBLIC)

CUMMINGS STREET (PUBLIC)

700

PC +50.00

MYSTIC AVE (RTE-38) NB DRAINAGE STRUCTURE DATA

NO.

11

12

13

TYPE

CB

GI

EX DMH

STATION

701+93.0

12.9 LT

701+92.9

13.1 RT

701+89.6

7.1 LT

RIM ELEV.

9.15

8.99

9.20

INV. IN

(11)  5.60

(12)  6.29

INV. OUT

5.70

6.49

REMARKS

ADJUST

FIELD VERIFY INVERTS

SAWCUT, MEET EXIST

PROP CEM CONC WCR

SAWCUT

ADJ

RAISED CROSSING

SEE DETAILS ON SHEET 27

SAWCUT

MEET EXIST

PROP 8' HMA WALK

REM GRD

RET

REM GRD AND CEM CONC,

PROP HMA

SAWCUT

MEET EXIST

PROP PAVEMENT MILLING

MULCH UNDER GUARD RAIL

PERMANENT IMPACT ATTENUATOR,

NON-REDIRECTIVE, TL-2 (SAND BARRELS)

PEDESTRIAN IMPROVEMENT PROJECT

DESCRIPTION LOCATION

PROPOSED TRANSITION TO NCHRP 350 GUARDRAIL
PROPOSED GUARDRAIL, TL-2 (SINGLE FACED)

PROPOSED TRAILING ANCHORAGE

PROPOSED TRANSITION TO NCHRP 350 GUARDRAIL

PROPOSED GUARDRAIL, TL-2 (SINGLE FACED)

PROPOSED TRAILING ANCHORAGE

TRAFFIC SIGNAL CONDUIT

SEE SHEET 11

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE BELOW

HIGHWAY GUARD DETAILS

DESCRIPTION

PROPOSED TRANSITION TO NCHRP 350 GUARDRAIL

PROPOSED GUARDRAIL, TL-2 (SINGLE FACED)

PROPOSED TRAILING ANCHORAGE

LOCATION

STA 700+41.0, RT TO STA 700+73.4, RT

STA 700+73.4, RT TO STA 700+87.9, RT

STA 700+87.9, RT TO STA 700+97.3, RT

STATION

700

PC +50.00

PROPOSED TRANSITION TO NCHRP 350 GUARDRAIL

PROPOSED GUARDRAIL, TL-2 (SINGLE FACED)

PROPOSED TRAILING ANCHORAGE

TRAFFIC SIGNAL CONDUIT

SEE SHEET 11

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE BELOW

MYSTIC AVE (RTE-38) NB DRAINAGE STRUCTURE DATA

<table>
<thead>
<tr>
<th>NO.</th>
<th>TYPE</th>
<th>IN.-OUT.</th>
<th>R.I.</th>
<th>R.O.</th>
<th>DRAWN</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>CB</td>
<td>5.60</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>GI</td>
<td>6.29</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>EX DMH</td>
<td>0.20</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
</tbody>
</table>

ADJUST

FIELD VERIFY INVERTS

SAWCUT

MEET EXIST

PROP 8' HMA WALK

REM GRD

RET

REM GRD AND CEM CONC,

PROP HMA

SAWCUT

MEET EXIST

PROP PAVEMENT MILLING

MULCH UNDER GUARD RAIL

PERMANENT IMPACT ATTENUATOR,

NON-REDIRECTIVE, TL-2 (SAND BARRELS)
CONSTRUCTION NOTES

1. RETAIN CONDUIT TO EXISTING POWER SOURCE
2. PEDESTRIAN IMPROVEMENT PROJECT
3. MODIFY SERVICE CONNECTION CUT AND EXTEND CONDUIT FROM EXIST FLASHING BEACON
4. PEDESTRIAN DETECTION ZONE (TYP) TO BE FIELD ADJUSTED

LIST OF MAJOR ITEMS REQUIRED

<table>
<thead>
<tr>
<th>PAY ITEM</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>RETAIN CONDUIT TO EXISTING POWER SOURCE</td>
</tr>
<tr>
<td>2</td>
<td>RRFB SYSTEM</td>
</tr>
<tr>
<td>3</td>
<td>APS PEDESTRIAN PUSH BUTTON W/R10-25 SIGN</td>
</tr>
<tr>
<td>4</td>
<td>PASSENGER THERMAL PDET DETECTION UNIT</td>
</tr>
<tr>
<td>5</td>
<td>W11-L(MOD) &amp; W16-7pL SIGNS</td>
</tr>
<tr>
<td>6</td>
<td>RRFB POSTS, WITH PEDESTRIAN PUSH BUTTON, NOT LOCATED WITHIN A PAVED SURFACE SHALL BE POSITIONED SO AS TO PROVIDE A 10&quot; MAX CLEAR REACH ZONE BETWEEN THE PEDESTRIAN PUSH BUTTON AND THE PAVED SURFACE PER 521 CMR AND AS SHOWN IN THE CONSTRUCTION DETAILS.</td>
</tr>
<tr>
<td>7</td>
<td>SEE DETAIL ON SHEET 24 FOR ADDITIONAL INFORMATION ON THE RRFB ASSEMBLIES FOR PEDESTRIAN CROSSINGS</td>
</tr>
<tr>
<td>8</td>
<td>ALL PAINTED MARKINGS SHALL BE REFLECTORIZED THERMOPLASTIC GABLES OTHERWISE PAPER</td>
</tr>
<tr>
<td>9</td>
<td>PEDESTRIAN IMPROVEMENT PROJECT</td>
</tr>
<tr>
<td>10</td>
<td>MODIFY SERVICE CONNECTION CUT AND EXTEND CONDUIT FROM EXIST FLASHING BEACON</td>
</tr>
<tr>
<td>11</td>
<td>PEDESTRIAN IMPROVEMENT PROJECT</td>
</tr>
</tbody>
</table>

GARFIELD AVENUE (PUBLIC)

KENSINGTON AVENUE (PUBLIC)

MYSTIC AVENUE (PUBLIC)

CUMMINGS STREET (PUBLIC)

ROUTE 93
NORTHERN EXPRESSWAY (PUBLIC)
CONSTRUCTION NOTES

1. SEE SHEET 10 FOR TRAFFIC SIGNAL DATA SHEET AND SHEET 11 FOR SIGN AND PAVEMENT MARKING PLANS.
2. RETAIN ALL TS EQUIPMENT UNLESS OTHERWISE NOTED.
3. RETAIN ALL TS CONDUIT UNLESS OTHERWISE NOTED.