RULES AND REGULATIONS
FOR
SUBDIVISION OF LAND
AND
SITE PLAN APPROVAL

TOWN OF NORFOLK PLANNING BOARD
NORFOLK, MASSACHUSETTS

VOLUMES I AND II

Rules and Regulations

VOLUME I
Sections 1-8;
(Appendix A)
Fee Schedule; Earth Removal;
Bonding; Bond Reduction

VOLUME II
(Appendix B-D)
Forms
Cross Sections
Details
Certification of Compliance with G.L. c. 41, Section 81Q

True copies of these regulations, as amended, and certified by the Town Clerk, have been transmitted and filed at the Norfolk County Registry of Deeds, in Dedham, and the Massachusetts Land Court, in Boston. Additionally, true copies of these regulations, as amended, have been placed on file and are available for public inspection at the offices of the Planning Board and the Town Clerk.

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# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>SECTION 1.0</td>
<td>PURPOSE AND AUTHORITY</td>
<td>1-1</td>
</tr>
<tr>
<td>1.1.</td>
<td>Purpose</td>
<td>1-1</td>
</tr>
<tr>
<td>1.2.</td>
<td>Authority</td>
<td>1-1</td>
</tr>
<tr>
<td>SECTION 2.0</td>
<td>GENERAL</td>
<td>2-1</td>
</tr>
<tr>
<td>2.1.</td>
<td>Definitions</td>
<td>2-1</td>
</tr>
<tr>
<td>2.2.</td>
<td>Access To Lots</td>
<td>2-4</td>
</tr>
<tr>
<td>2.3.</td>
<td>Regulation of New Subdivisions</td>
<td>2-4</td>
</tr>
<tr>
<td>2.4.</td>
<td>Plan Preparation</td>
<td>2-4</td>
</tr>
<tr>
<td>2.5.</td>
<td>Application, Review and Observation/Inspection Fees</td>
<td>2-4</td>
</tr>
<tr>
<td>2.5.1.</td>
<td>General Requirements</td>
<td>2-4</td>
</tr>
<tr>
<td>2.5.2.</td>
<td>Eligible Consultants</td>
<td>2-4</td>
</tr>
<tr>
<td>2.5.3.</td>
<td>Fund Administration</td>
<td>2-5</td>
</tr>
<tr>
<td>2.5.4.</td>
<td>Fund Expenditures</td>
<td>2-5</td>
</tr>
<tr>
<td>2.5.5.</td>
<td>Administrative Appeal</td>
<td>2-5</td>
</tr>
<tr>
<td>2.5.6.</td>
<td>Review Fee Retainer</td>
<td>2-5</td>
</tr>
<tr>
<td>2.6.</td>
<td>Pre-Submission Review</td>
<td>2-5</td>
</tr>
<tr>
<td>SECTION 3.0</td>
<td>PROCEDURE FOR THE SUBMISSION AND APPROVAL OF PLANS</td>
<td>3-1</td>
</tr>
<tr>
<td>3.1.</td>
<td>Plan Believed Not To Require Approval</td>
<td>3-1</td>
</tr>
<tr>
<td>3.1.1.</td>
<td>Submission of Plan</td>
<td>3-1</td>
</tr>
<tr>
<td>3.1.2.</td>
<td>Contents</td>
<td>3-1</td>
</tr>
<tr>
<td>3.1.3.</td>
<td>Endorsement of Plan Not Requiring Approval</td>
<td>3-2</td>
</tr>
<tr>
<td>3.1.4.</td>
<td>Determination That Plan Requires Approval</td>
<td>3-2</td>
</tr>
<tr>
<td>3.1.5.</td>
<td>Recording</td>
<td>3-2</td>
</tr>
<tr>
<td>3.2.</td>
<td>Preliminary Plan</td>
<td>3-3</td>
</tr>
<tr>
<td>3.2.1.</td>
<td>Submission of a Preliminary Plan</td>
<td>3-3</td>
</tr>
<tr>
<td>3.2.2.</td>
<td>Contents</td>
<td>3-3</td>
</tr>
<tr>
<td>3.2.3.</td>
<td>Approval of a Preliminary Plan</td>
<td>3-5</td>
</tr>
<tr>
<td>3.2.4.</td>
<td>Disapproval of a Preliminary Plan</td>
<td>3-5</td>
</tr>
<tr>
<td>3.3.</td>
<td>Definitive Plan</td>
<td>3-6</td>
</tr>
<tr>
<td>3.3.1.</td>
<td>Submission of a Definitive Plan</td>
<td>3-8</td>
</tr>
<tr>
<td>3.3.2.</td>
<td>Contents</td>
<td>3-10</td>
</tr>
<tr>
<td>3.3.2.15.</td>
<td>Plan and Profile</td>
<td>3-11</td>
</tr>
<tr>
<td>3.3.2.16.</td>
<td>Contour Plan/Grading Plan</td>
<td>3-11</td>
</tr>
<tr>
<td>3.3.2.17.</td>
<td>Utility Plan</td>
<td>3-12</td>
</tr>
<tr>
<td>3.3.2.18.</td>
<td>Drainage Calculations</td>
<td>3-12</td>
</tr>
<tr>
<td>3.3.2.19.</td>
<td>Tree Plan</td>
<td>3-12</td>
</tr>
<tr>
<td>3.3.2.20.</td>
<td>Cross-Sections</td>
<td>3-12</td>
</tr>
<tr>
<td>3.3.2.21.</td>
<td>Impact Studies and Assessments</td>
<td>3-12</td>
</tr>
<tr>
<td>3.3.2.22.</td>
<td>Sedimentation and Erosion Control Plan</td>
<td>3-13</td>
</tr>
<tr>
<td>3.3.2.23.</td>
<td>Traffic Congestion Control and Analysis</td>
<td>3-13</td>
</tr>
<tr>
<td>3.3.2.23.1.</td>
<td>Definitions</td>
<td>3-13</td>
</tr>
<tr>
<td>3.3.2.23.2.</td>
<td>Traffic Impact Analysis</td>
<td>3-14</td>
</tr>
<tr>
<td>3.3.2.23.3.</td>
<td>Contents of Traffic Impact Analysis</td>
<td>3-14</td>
</tr>
<tr>
<td>3.3.2.24.</td>
<td>Curb Tie and Alignment Plan</td>
<td>3-15</td>
</tr>
<tr>
<td>3.3.2.25.</td>
<td>Waivers, Construction Sequencing and Timing</td>
<td>3-15</td>
</tr>
</tbody>
</table>
SECTION 4.0   GENERAL REQUIREMENTS AND DESIGN STANDARDS   4-1

4.1.    Basic Requirements/Design Guides   4-1
4.1.4.  Referenced Standard   4-1
4.2.    Relation To Surrounding Areas   4-1
4.3.    Minimum Lot   4-2
4.4.    Access Through Another Municipality   4-2
4.5.    Reserve Strips   4-2
4.6.    Further Subdivisions   4-2
4.7.    Re-subdivision   4-2
4.8.    Blocks   4-2
4.9.    Access and Maintenance Easements   4-2
4.9.1.  Layout   4-2
4.9.2.  Watercourses   4-3
4.9.3.  Utilities   4-3
4.9.4.  Trees   4-3
4.10.   Pedestrian Ways/Walkways   4-3
4.11.   Open Space, Parks, and Playgrounds   4-3
4.12.   Protection of Natural Features   4-4
4.13.   Water System   4-4
4.14.3. Reconstruction of Adjacent Public Ways   4-5
4.14.4. Street Jogs   4-5
4.14.5. Reserve Curves   4-5
4.14.6. Right of Way Widths and Alignments Chart   4-6
4.14.7. Intersections   4-6
4.14.8. Vertical Alignment   4-7
4.14.9. Cul-de-sacs   4-8
4.14.9.6. Cul-de-Sac Plantings 4-10
4.14.10. Half Streets 4-10
4.14.11. Sight Distances at Intersections 4-10
4.14.12. Stopping Sight Distance 4-11
4.15. Slopes 4-11
4.16. Driveways 4-11
4.17. Street Cross Sections 4-12
4.18. Walkways on Existing Roadways 4-12
4.18.1. Width 4-12
4.19. Storm Management Systems 4-12
4.19.1. General 4-13
4.19.2. Submissions 4-14
4.19.3. Standards 4-16
4.19.4. Geotechnical Testing 4-17
4.19.5. Hydrological Analysis 4-19
4.19.6. Design Storms 4-19
4.19.7. Design Criteria 4-22
4.19.7.5. Surface Storm Water Basin 4-24
4.19.7.6. Subsurface Recharge Systems 4-25
4.19.8. Mounding 4-26
4.19.9. Offsite Discharge 4-27
4.20. Uniform Street Numbering System 4-28
4.20.4. New Building and Subdivisions 4-28

SECTION 5.0 REQUIRED IMPROVEMENTS FOR SUBDIVISION 5-1

5.1. Basic Requirements 5-1
5.1.3. Reference Standards 5-1
5.1.4. Staking Prior to Construction 5-1
5.2. Streets and Roadways 5-1
5.2.1. Minimum Widths and Depths 5-2
5.2.1.1. Minimum Width Requirements 5-2
5.2.1.2. Minimum Depth Requirements 5-2
5.2.2. Clearing and Grubbing 5-3
5.2.3. Excavations 5-3
5.2.4. Embankments 5-3
5.2.5. Gravel Base 5-4
5.2.6. Dense Graded Crushed Stone For Roadway Base 5-4
5.2.7. Bituminous Concrete Pavement, Temporary Berm, Sidewalks, and Driveways 5-5
5.2.8. Slant Granite Edging 5-5
5.2.9. Curb and Edging 5-5
5.2.10. Walkways 5-5
5.2.10.1. Width 5-6
5.2.10.2. Clearing and Grubbing 5-6
5.2.10.3. Bituminous Paving 5-6
5.2.10.4. Grass Strip 5-6
5.2.10.5. Drainage 5-6
5.3. Storm Drainage System Construction Specifications 5-6
5.3.1. Frames, Grates and Covers 5-6
5.3.2. Manholes 5-7
5.3.3. Catch Basins 5-7
5.3.3.3. Curb Inlet Stones 5-8
5.3.3.4. Transition Curbs 5-8
5.3.4. Flared and Metal Ends 5-8
5.3.5. Field Stone Masonry Ends 5-8
5.3.6. Security Bars 5-8
5.3.7. Scour Protection 5-8
5.3.8. Sub-drains 5-8
5.3.9. Trench Excavation 5-9
5.3.10. Pipe Bedding 5-9
5.3.11. Pipe Installation and Backfilling 5-9
5.3.12. Leaching Pit or Basin
5.4. Water Systems
5.5. Sanitary Sewers
5.6. Private Utilities
5.7. Retaining Walls
5.8. Fire Alarm System
5.9. Street Trees
5.9.1 Tree Species
5.10. Loaming and Seeding
5.11. Street Signs
5.12. Street Lights
5.13. Guard Rails
5.13.3. Wood Posts and Rails
5.14. Bounds
5.15. Curb-Cut Ramps
5.16. Final Cleanup
5.17. Certificates of Compliance
5.18. Maintenance
5.19. Stop Work Orders

SECTION 6.0 ADMINISTRATION

6.1. Authority
6.2. Variation
6.2.1. Waiver of Compliance
6.2.1.2. Request for Waivers from Planning Board
6.2.2. Planned Development
6.3. References
6.4. Validity
6.5. Amendments
6.6. Inspection/Observation of Improvements
6.6.1. Erosion and Sedimentation Controls
6.6.2. Clearing and Grubbing of Right of Way
6.6.3. Excavation
6.6.4. Embankments
6.6.5. Staking
6.6.6. Storm Drainage System
6.6.7. Sanitary Sewer System
6.6.8. Water System
6.6.9. Sub-grade of Right of Way
6.6.10. Processed Gravel Base and Base
6.6.11. Dense Graded Crushed Stone Base
6.6.12. Bituminous Concrete Pavement
6.6.13. Curbing and Edging
6.6.15. Loam and Seed
6.6.16. Retaining Walls
6.6.17. Guard Rails
6.6.18. Street Trees and Plantings
6.6.19. Street Signs and Bounds
6.6.20. Fire Alarm System
6.6.21. Street Lights
6.6.22. Final Cleanup
6.6.23. Maintenance
6.6.24. As Built/Acceptance Plan/Running Description of Roadway and Easements
6.6.25. Deed/Easement Submittal
6.6.26. Other
SECTION 7.0  SITE PLAN APPROVAL: ADMINISTRATIVE REQUIREMENTS

7.1.  AUTHORITY
7.2.  PRECEDENCE
7.3.  APPLICABILITY
7.4.  REQUIREMENTS
7.4.1.  Pre-Submission Review
7.4.3.  Contents
7.5.  SUBMISSION
7.5.1.  General
7.5.2.  Traffic Congestion Control and Analysis
7.5.3.  Waivers
7.6.  SITE PLAN SUBMITTAL FEE
7.7.  HEARING
7.7.3.  Representation and Absence
7.8.  DECISION
7.8.1.  Time
7.8.2.  Modification/Amendment/Endorsement
7.8.3.  Voting Requirement
7.8.4.  Written Notification of Decision/Detailed Record
7.9.  GENERAL
7.9.1.  Application
7.9.2.  Withdrawal
7.9.3.  Reapplication
7.10.  ONE-YEAR LIMITATION OF GRANTS; EXTENSIONS
7.11.  APPEAL OF DECISION

SECTION 8.  REGULATIONS FOR NON-RESIDENTIAL AND MIXED USE DEVELOPMENTS IN THE USINESS AND COMMERCIAL ZONING DISTRICTS

8.1.  INTRODUCTION
8.2.  Purpose
8.3.  Authority
8.4.  Basic Requirements
8.4.1.  Design Guidelines for Streets, Roadways, and Utilities
8.4.2.  Referenced Standards
8.4.3.  Blocks
8.4.6.  Access and Maintenance Easements
8.4.6.1.  Layout
8.4.6.2.  Watercourses
8.4.6.3.  Utilities
8.4.6.4.  Trees
8.4.7.  Pedestrian Ways/Sidewalks
8.4.8.  Streets
8.4.8.1.  Arrangement
8.4.8.2.  Access to Feeder Streets
8.4.8.3.  Reconstruction
8.4.8.4.  Street Jogs
8.4.8.5.  Reverse Curves
8.4.8.6.  Level of Service
8.4.8.6.1.  Signalized Intersections
8.4.8.6.2.  Un-signalized Intersections
8.4.8.7.  Right-of-Way Widths and Alignments - Design Speed
8.4.8.7.1.  Right-of-Way Widths and Alignments - Design Speed Chart
8.4.9.  Intersections
8.4.10.  Vertical Alignment
8.4.11.  Cul-de-sacs
<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.4.11.2.3.</td>
<td>Provisions for Future Through Access</td>
<td>8-12</td>
</tr>
<tr>
<td>8.4.11.2.6.</td>
<td>Cul-de-sac Plantings</td>
<td>8-13</td>
</tr>
<tr>
<td>8.4.11.3.1.</td>
<td>Standards and Specifications</td>
<td>8-13</td>
</tr>
<tr>
<td>8.4.11.4.</td>
<td>Provisions for Future Through Access</td>
<td>8-13</td>
</tr>
<tr>
<td>8.4.12.</td>
<td>Half Streets</td>
<td>8-14</td>
</tr>
<tr>
<td>8.4.13.</td>
<td>Sight Distances at Intersections</td>
<td>8-14</td>
</tr>
<tr>
<td>8.4.14.</td>
<td>Stopping Sight Distance</td>
<td>8-14</td>
</tr>
<tr>
<td>8.4.15.</td>
<td>Frontage Road Design and Location</td>
<td>8-15</td>
</tr>
<tr>
<td>8.4.15.1.</td>
<td>Cross-easements</td>
<td>8-15</td>
</tr>
<tr>
<td>8.4.15.2.</td>
<td>Maintenance</td>
<td>8-15</td>
</tr>
<tr>
<td>8.4.15.2.1.</td>
<td>Signage</td>
<td>8-15</td>
</tr>
<tr>
<td>8.4.16.</td>
<td>Street Layout in the B1 District (Town Center)</td>
<td>8-15</td>
</tr>
<tr>
<td>8.5.</td>
<td>Street, Roadway, and Utility Construction Standards</td>
<td>8-15</td>
</tr>
<tr>
<td>8.5.1.</td>
<td>Basic Requirements</td>
<td>8-15</td>
</tr>
<tr>
<td>8.5.2.</td>
<td>Referred Standards</td>
<td>8-15</td>
</tr>
<tr>
<td>8.5.4.</td>
<td>Streets and Roadways</td>
<td>8-16</td>
</tr>
<tr>
<td>8.5.4.1.</td>
<td>Minimum Widths and Depths</td>
<td>8-16</td>
</tr>
<tr>
<td>8.5.4.2.</td>
<td>Minimum Width Requirements</td>
<td>8-16</td>
</tr>
<tr>
<td>8.5.4.3.</td>
<td>Minimum Depth Requirements (Roadways/Sidewalks)</td>
<td>8-16</td>
</tr>
<tr>
<td>8.5.4.4.</td>
<td>Clearing and Grubbing</td>
<td>8-17</td>
</tr>
<tr>
<td>8.5.4.4.3.</td>
<td>Excavations</td>
<td>8-17</td>
</tr>
<tr>
<td>8.5.4.5.</td>
<td>Embankments</td>
<td>8-18</td>
</tr>
<tr>
<td>8.5.4.6.</td>
<td>Gravel Base</td>
<td>8-18</td>
</tr>
<tr>
<td>8.5.4.7.</td>
<td>Dense Graded Crushed Stone for Roadway Base</td>
<td>8-19</td>
</tr>
<tr>
<td>8.5.4.8.</td>
<td>Bituminous Concrete Pavement, Sidewalks, and Driveways</td>
<td>8-19</td>
</tr>
<tr>
<td>8.5.4.9.</td>
<td>Sloped Granite Edging and Vertical Granite Curbing</td>
<td>8-19</td>
</tr>
<tr>
<td>8.5.4.10.</td>
<td>Curbing and Edging</td>
<td>8-20</td>
</tr>
<tr>
<td>8.5.4.11.</td>
<td>Cross Sections</td>
<td>8-20</td>
</tr>
<tr>
<td>8.5.4.12.</td>
<td>Sidewalks on Existing Roadways</td>
<td>8-21</td>
</tr>
<tr>
<td>8.5.4.12.1.</td>
<td>Width</td>
<td>8-21</td>
</tr>
<tr>
<td>8.5.4.12.2.</td>
<td>Clearing and Grubbing</td>
<td>8-21</td>
</tr>
<tr>
<td>8.5.4.12.3.</td>
<td>Bituminous Paving</td>
<td>8-22</td>
</tr>
<tr>
<td>8.5.4.12.4.</td>
<td>Grass Strips</td>
<td>8-22</td>
</tr>
<tr>
<td>8.5.4.12.5.</td>
<td>Drainage</td>
<td>8-22</td>
</tr>
<tr>
<td>8.5.4.13.</td>
<td>On-Street Parking Regulations</td>
<td>8-22</td>
</tr>
<tr>
<td>8.5.5.</td>
<td>Retaining Walls</td>
<td>8-22</td>
</tr>
<tr>
<td>8.5.6.</td>
<td>Street Trees</td>
<td>8-23</td>
</tr>
<tr>
<td>8.5.7.</td>
<td>Loaming and Seeding</td>
<td>8-24</td>
</tr>
<tr>
<td>8.5.8.</td>
<td>Street Lights</td>
<td>8-24</td>
</tr>
<tr>
<td>8.5.8.1.</td>
<td>Location of Decorative Street Lights</td>
<td>8-25</td>
</tr>
<tr>
<td>8.5.9.</td>
<td>Guard Rails</td>
<td>8-25</td>
</tr>
<tr>
<td>8.5.9.1.</td>
<td>Wood Posts and Rails</td>
<td>8-25</td>
</tr>
<tr>
<td>8.5.9.2.</td>
<td>Crosswalks</td>
<td>8-26</td>
</tr>
<tr>
<td>8.5.10.</td>
<td>Street Furniture</td>
<td>8-27</td>
</tr>
<tr>
<td>8.6.</td>
<td>Reference to Additional Local Standards</td>
<td>8-27</td>
</tr>
</tbody>
</table>
APPENDIX A - SUPPLEMENTAL REQUIREMENTS

- Norfolk Planning Board Fee Schedule
- Earth Relocation/Removal
- Bonding Procedure
- Procedure for Reduction in Bonding

APPENDIX B - FORMS

<table>
<thead>
<tr>
<th>FORM</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Application for Endorsement of Plan Believed Not To Require Approval</td>
</tr>
<tr>
<td>A-1</td>
<td>Determination That Subdivision Approval Is Not Required</td>
</tr>
<tr>
<td>A-2</td>
<td>Determination That Subdivision Approval Is Required</td>
</tr>
<tr>
<td>B</td>
<td>Application for Approval of A Preliminary Plan</td>
</tr>
<tr>
<td>B-1</td>
<td>Certificate of Approval of A Preliminary Plan</td>
</tr>
<tr>
<td>B-2</td>
<td>Certificate of Disapproval of A Preliminary Plan</td>
</tr>
<tr>
<td>C</td>
<td>Application for Approval of Definitive Subdivision Plan</td>
</tr>
<tr>
<td>C-1</td>
<td>Certificate of Approval of A Definitive Plan</td>
</tr>
<tr>
<td>C-2</td>
<td>Certificate of Approval With Modifications of A Definitive Plan</td>
</tr>
<tr>
<td>C-3</td>
<td>Application for Approval of Modification to Approved Definitive Subdivision Plan</td>
</tr>
<tr>
<td>C-4</td>
<td>Certificate of Disapproval of A Definitive Plan</td>
</tr>
<tr>
<td>D</td>
<td>Designer's Certificate</td>
</tr>
<tr>
<td>E</td>
<td>Certificate of Amendment, Modification or Rescission of Approval of Definitive Subdivision Plan</td>
</tr>
<tr>
<td>F</td>
<td>Covenant</td>
</tr>
<tr>
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<td>Performance Secured By Deposit Of Money</td>
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<td>Performance Secured By A Surety Company</td>
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<tr>
<td>G-3</td>
<td>Performance Secured By A Bank Passbook</td>
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<tr>
<td>G-4</td>
<td>Performance Secured By Lender's Agreement</td>
</tr>
<tr>
<td>H</td>
<td>Release of Lots</td>
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<tr>
<td>K</td>
<td>Subdivision Inspection Checklist</td>
</tr>
<tr>
<td>L</td>
<td>Conveyance of Easements And Utilities</td>
</tr>
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<td>M-1</td>
<td>Control Form and Preliminary Plan Checklist</td>
</tr>
<tr>
<td>M-2</td>
<td>Control Form and Definitive Plan Checklist</td>
</tr>
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<td>N</td>
<td>Request for Extension</td>
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<td>O</td>
<td>Site Plan Approval Application and Checklist</td>
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<td>P</td>
<td>Storm Drainage Flow Analysis</td>
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APPENDIX C - TYPICAL CROSS SECTIONS

- 50 Foot Right of Way (See Sections 5.2.1.1. or 8.5.4.2.)
- 60 Foot Right of Way (See Sections 5.2.1.1. or 8.5.4.2.)
- 70 Foot Right of Way (See Sections 5.2.1.1. or 8.5.4.2.)
APPENDIX D - TYPICAL DETAILS/FIGURES

Detail 1  Title Block and Signature Space
Detail 2  Method of Setting Precast Concrete and Granite Edging
Detail 2A  Typical Granite Curb Inlet
Detail 2B  Granite Transition Curb
Detail 3  Wheelchair Ramps for Sidewalk up to 8' Wide (See also ADA Requirements)
Detail 4  Wheelchair Ramps for Sidewalk over 8' Wide (See also ADA Requirements)
Detail 5  Precast Concrete Catch Basin
Detail 6  Catch Basin Frame
Detail 7  Massachusetts Cascade Grate
Detail 8  Cascade Bar Design for Massachusetts Cascade Grate
Detail 9  Frame for Massachusetts Cascade Grate
Detail 10  Catch Basin Hood
Detail 11  Precast Concrete Manhole 9 Feet or Less in Depth
Detail 12  Special Manholes for 35" to 84" Diameter R.C. Pipe
Detail 13  Manhole Frame and Cover
Detail 14  Manhole Cover
Detail 15  Concrete Collars
Detail 16  Asphalt Coated Corrugated Steel Metal Pipe
Detail 17  Concrete and Field Stone Masonry Ends for "8" to 30" Pipe Culvert
Detail 18  Concrete and Field Stone Masonry Combination Ends for Pipes up to 30" Diameter
Detail 19  Concrete and Field Stone Masonry Ends for 30" to 84" Pipe Culverts
Detail 20  Reinforced Concrete Pipe Flared Ends
Detail 21  Standard Metal End
Detail 22  Low Retaining Walls
Detail 23  Cemented Stone Masonry Wall
Detail 24  Steel Beam Guard Rail with Wood Post
Detail 25  Wood Post and Rail Guardrail
Detail 26  Bounds
Detail 27  Tree Wells
Figure 28  Easement Locations in the Town Center
Figure 29  Easement Locations - General
Figure 30  Pedestrian Ways/Sidewalks in the Town Center
Figure 31  Right of Way Widths and Alignments - Design Speed of 15 MPH
Figure 32  Right of Way Widths and Alignments - Design Speed of 20 MPH
Figure 33  Right of Way Widths and Alignments - Design Speed of 25 MPH
Figure 34  Right of Way Widths and Alignments - Design Speed of 30 MPH
Figure 35  Curb Radius Construction for Intersection of State and Local Roadways
Figure 36  Frontage Road Location
Figure 37  On-Street Parking
Figure 38  Location of Street Trees and Street Lights
Figure 39  Tree Grate and Tree Guard
Figure 40  Decorative Street Light
Figure 41  Crosswalk Markings
Figure 42  Street Furniture
Figure 43  Cul-de-sac Easement Detail

All other details are in accordance with MHD Standard Specifications
See also Board of Water Commissioners requirements/details
RULES AND REGULATIONS
GOVERNING THE SUBDIVISION OF LAND
NORFOLK, MASSACHUSETTS

INTRODUCTION
(Adopted under the Subdivision Control Law Section 81-K to 81-GG inclusive Chapter 41, G.L.)

SECTION 1.0 PURPOSE AND AUTHORITY

1.1. Purpose
These subdivision regulations are adopted under the provisions of Chapter 41 of the General Laws consistent with the purpose of protecting the safety, convenience and welfare of the inhabitants of the Town of Norfolk by "regulating the laying out and construction of ways in subdivisions providing access to the several lots therein, but which have not become public ways, and ensuring sanitary conditions in subdivisions and in proper cases parks and open areas. The powers of a planning board and a board of appeal under the subdivision control law shall be exercised with due regard for the provision of adequate access to all of the lots in a subdivision by ways that will be safe and convenient for travel; for lessening congestion in such ways and in the adjacent public ways, for reducing danger to life and limb in the operation of motor vehicles; for securing safety in the case of fire, flood, panic and other emergencies; for insuring compliance with the applicable zoning ordinances or bylaws; for securing adequate provision for water, sewerage, drainage and other requirements where necessary in a subdivision; and for coordinating the ways in a subdivision with each other and with the public ways in the city or town in which it is located and with the ways in neighboring subdivisions". (MGL Chapter 41, Section 81-K)

1.2. Authority
Under the authority vested in the Planning Board of the Town of Norfolk by Section 81-Q of Chapter 41 of the General Laws, said Board hereby adopts these amended rules and regulations governing the subdivision of land in the Town of Norfolk. Such rules and regulations as amended shall be effective on July 28, 2000.
SECTION 2.0 GENERAL

2.1. Definitions

APPLICANT
A person (as hereinafter defined) who applies for the approval of a plan of a subdivision (Section 3) or approval of a site plan (Section 7). "Applicant" shall include an owner, or his agent or representative, or his assigns. The Applicant may or may not be the Developer.

AASHTO
American Association of State Highway and Transportation Officials.

BASE FLOOD
The 'Base Flood Elevation' shall be the level of flooding having a one percent chance of being equalled or exceeded in any given year, as designated on Flood Insurance Rate Maps (FIRM) cited in the Zoning Bylaw, or, in the absence of such designation, to be verified by the Planning Board based upon the best available information regarding flood hazards, including any available United States Geologic Survey's, Soil Conservation Service's, and Corps of Engineers studies.

BENCH MARK
A mark made in a durable non-growing object of known position and elevation as a reference point. All benchmarks shall be referenced to the National Geodetic Vertical Datum (N.G.V.D.) of 1929.

BIKEWAY
A way designed to be used principally or exclusively by a bicycle or similar unpowered vehicle.

BLOCK
An area of land enclosed on two or more sides by street right-of-way.

BOARD
The Planning Board of the Town of Norfolk.

BRIDLE PATH
A way designed to be used principally or exclusively for equestrian purposes.

CUL DE SAC
A street with only one outlet to a through street.

DEFINITIVE PLAN
The plan of a subdivision as duly submitted with appropriate and completed application to the Board for approval, to be recorded in the Registry of Deeds or filed with the Land Court when approved by the Board, and as distinguished from a Preliminary Plan.

DESIGNER
A Registered Professional Engineer (Civil) and/or a Registered Professional Land Surveyor licensed to practice in the Commonwealth of Massachusetts.

DEVELOP
To construct a street, install utilities, erect a house or other structure, or take other action in furtherance thereof.

DEVELOPER
A person (as hereinafter defined) who proposes to develop either a subdivision under a plan of a subdivision approved pursuant to Sec. 3 of these Rules and Regulations or a Site Plan in accordance with the provisions of Sec. 7 of these Rules and Regulations. The Developer may or may not be the Applicant.

DRAINAGE
The control of surface water within the tract of land to be subdivided or the site plan.

EASEMENT
A right acquired by public authority or other person to use or control
property for a utility or other designated purpose.

**ENDORSED BY**

Shall mean bearing a certification or endorsement signed by a majority of the members of the Planning Board as applied to a plan or other instrument required or authorized by the Subdivision Control Law to be recorded.

**FOOTPATH**

See WALKWAY.

**LOT**

See Town of Norfolk Zoning ByLaws for definition.

**LOT AREA**

The horizontal area of the lot exclusive of any area in a street or recorded way open or proposed to be open to public use. For lots created subsequent to September 9, 1974, at least 75% of the lot area required for zoning compliance shall be land other than that under any body of water, including watercourses, or any bog, swamp, wet meadow, or marsh, as defined in Section 40, Chapter 131, M.G.L., to be determined by the Building Commissioner, following consultation with the Conservation Commission.

**MONUMENT**

A permanent marker to indicate a boundary.

**MUNICIPAL SERVICES**

Sanitary sewers, storm drains, water pipes, gas pipes, electrical lines, telephone lines, cable tv system, fire alarm and similar systems and their respective appurtenances. (See Private & Public Utilities)

**OWNER**

As applied to real estate, the person holding the record title to a parcel, tract or lot of land, as shown by the certified record in the Land Registration Office or the Registry of Deeds or Registry of Probate.

**PEDESTRIAN WAY**

A way providing public access for pedestrians near the right of way of an existing way, consisting of an easement of at least twenty feet, which is normally parallel to the street. Pedestrian Ways are primarily designed and intended to be used by pedestrians for convenient circulation or access to schools, playgrounds, shopping, churches, transportation, parks, conservation areas and/or other facilities. See Sec. 8 for B1 and C1 requirements.

**PERSON**

An individual, or two or more individuals or a group or association of individuals, a partnership, trust or corporation, or governmental agency having common or undivided interests in a tract of land.

**PRELIMINARY PLAN**

A plan of a proposed subdivision or resubdivision of land prepared and duly submitted in accordance with Section 3.2. in order to facilitate preparation of a Definitive Plan.

**PLANNING BOARD REPRESENTATIVE/AGENT**

Town employee or private consultant authorized by the Planning Board to review subdivisions and administer the regulations.

**PRIVATE UTILITIES**

This term shall include telephones, cable television, electric light and power, and gas lines whether installed on, above or beneath the surface of the ground.

**PUBLIC UTILITIES**

This term shall include only sanitary sewers, fire alarms, storm water drains and water pipes and their appurtenances, which may become the property or responsibility of the Town.

**RECORDED**

Recorded shall mean recorded in the Registry of Deeds of Norfolk County,
except that, as affecting registered land, it shall mean filed with the Recorder of the Land Court. (Section 81-L of Chapter 41 M.G.L.).

REGISTERED MAIL
Registered or certified mail.

REGISTRY OF DEEDS
The Norfolk County Registry of Deeds and, where appropriate, shall include the Land Court of Norfolk County.

ROADWAY
That portion of a way which is designed and constructed for vehicular travel.

SIDEWALK
A paved way within the right-of-way of a street normally parallel to the street, primarily designed and intended for use by pedestrians.

STANDARD SPECIFICATIONS
"Massachusetts Highway Department (MHD)" (formerly "The Commonwealth of Massachusetts, Department of Public Works), Standard Specifications for Highways and Bridges", latest edition as amended.

STREET
See Town of Norfolk Zoning ByLaws for definition.

PRIMARY
A street which carries traffic equivalent to that generated by 50 dwelling units or more, or which serves property either used or zoned for business or industry.

SECONDARY
A street which carries traffic equivalent to that generated by more than 7 but fewer than 50 dwelling units, and which is not capable of extension to serve more than 50 dwelling units.

RESIDENTIAL
A street which carries traffic equivalent to that generated by 7 or fewer dwelling units, and which is not capable of extensions. A cul de sac that cannot be extended.

THROUGH
A street with an outlet to more than one paved public way.

SUBDIVISION
The division of a tract of land into two (2) or more lots and shall include re-subdivision, and, when appropriate to the context, shall relate to the process of subdivision or the land or territory subdivided; provided, however, that the division of a tract of land into two (2) or more lots shall not be deemed to constitute a subdivision within the meaning of the subdivision control law if, at the time when it is made, every lot within the tract so divided has a frontage on (a) public way, or a way which the Town Clerk of the Town of Norfolk certifies is maintained and used as a public way, or (b) a way shown on a plan theretofore approved and endorsed in accordance with the Subdivision Control Law, or (c) a way in existence before March 31, 1954, having in the opinion of the Planning Board, sufficient width, suitable grades and adequate construction to provide for the needs of vehicular traffic in relation to the proposed use of the land abutting thereon or served thereby, and for the installation of municipal services to serve such land and the buildings erected or to be erected thereon. Such frontage shall be of at least such distance as is then required by the Zoning Bylaw. Conveyances or other instruments adding to, taking away from, or changing the size and shape of lots in such a manner as not to leave any lot so affected without the frontage above set forth, or the division of a tract of land on which one (1) of such buildings remains standing, shall not constitute a subdivision. (Section 81-L of Chapter 41, M.G.L.).
SUBDIVISION CONTROL
The power of regulating the subdivision of land granted by the Subdivision Control Law, Chapter 41, Sections 81- K through GG inclusive, as amended.

TOWN
Town of Norfolk, Massachusetts.

WALKWAY
A way near the right of way of a street consisting of a parcel or easement of at least five feet, which is normally parallel to the street.
Walkways/footpaths are primarily designed and intended to be used by pedestrians for convenient circulation or access to schools, playgrounds, shopping, churches, transportation, parks, conservation areas and/or other facilities. See Sec. 8 for B1 and C1 requirements.

2.2. Access to Lots
Primary access for each lot shown on a definitive plan or a plan not requiring subdivision control (81P) shall be from the street on which its frontage is measured. See Zoning Bylaws.

2.3. Regulation of New Subdivisions
No person shall make a subdivision, within the meaning of the Subdivision Control Law, of any land within the Town, or proceed with the improvement or sale of lots in a subdivision, or the construction of ways, or the installation of Municipal Services therein, unless and until a Definitive Plan of such subdivision has been submitted to and approved by the Planning Board as hereinafter provided. (Section 81-O of Chapter 41, M.G.L.)

2.4. Plan Preparation
All plans submitted to the Board shall be prepared and stamped by a Massachusetts Registered Professional Engineer and/or Land Surveyor, as appropriate. Form D, Designer's Certificate, shall be completed and submitted to the Board.

2.5. Application, Review and Inspection Fees
See Appendix A for applicable Application, Review and Performance/Observation Inspection Fee Schedule. Review Fee Administration shall be as follows:

2.5.1. General Requirements
When reviewing an application for subdivision or site plan approval, the Board may determine that the assistance of outside consultants is warranted due to the size, scale or complexity of a proposed project or because of a project's potential impact. The Board may require that the applicant pay a "review fee" consisting of the reasonable costs incurred by the Board for the employment of outside consultants engaged by the Board to assist in the review of an application, in accordance with c. 593 of the Acts of 1989.

2.5.2. Eligible Consultants
In hiring outside consultants, the Board may engage engineers, planners, lawyers, urban designers, or other appropriate professionals who can assist the Board in analyzing a project to ensure compliance with all relevant laws, bylaws and regulations.

2.5.3. Fund Administration
Funds received by the Board pursuant to this section shall be deposited with the town Treasurer who shall establish a special account for this purpose. Expenditures from this special account may be made at the direction of the Board without further appropriation. Expenditures from this special account shall be made only in connection with the review of a specific project or projects for which a review fee has been or will be collected from the applicant. Failure of an applicant to pay a review fee shall be grounds for denial of the application.
If an applicant wishes to receive interest on the balance remaining in his review fee special account, a form must be completed entitled "Client Group Account, Client Account Application - Certification of Taxpayer Identification Number".

2.5.4. Fund Expenditures
Review fees may only be spent for services rendered in connection with the specific project from which they were collected. Accrued interest may also be spent for this purpose. At the completion of the Board's review of a project, any excess amount in the account, including interest, attributable to a specific project, shall be repaid to the applicant or the applicant's successor in interest. For the purpose of the regulation, any person or entity claiming to be an applicant's successor in interest shall provide the Board with documentation establishing such succession in interest.

2.5.5. Administrative Appeal
Any applicant may take an administrative appeal from the selection of the outside consultant to the Board of Selectmen. Such appeal must be taken within ten (10) business days of the decision by the Board to so select, and it must be made by certified mail, return receipt requested addressed to the Board of Selectmen, with a copy to the Planning Board. The date of mailing shall control. In the event such an appeal is taken, the applicant shall, at the same time, execute and deliver to the Planning Board an offer of extension to the application made under the Subdivision Control Law for a period of not less than thirty (30) days. The grounds for such an appeal shall be limited to claims that the consultant selected has a conflict of interest or does not possess the minimum required qualifications. The minimum required qualifications shall consist either of an educational degree in, or related to, the field at issue or three or more years of practice in the field at issue or a related field. The required time limit for action upon an application by the Board shall be extended by the duration of the administrative appeal. In the event that no decision is made by the Board of Selectmen within one month following the filing of the appeal, the selection made by the Planning Board shall stand.

2.5.6. Review Fee Retainer
At the time of submission, the applicant shall provide payment in the amount(s) specified in the fee schedule, by check or money order payable to "Norfolk Planning Board Review Account". The applicant shall maintain a balance in such account of at least 50% of the initial payment amount. Additional retainage of higher amounts may be required in the case of extraordinary size or complexity of projects. The Planning Board may periodically bill the applicant for the purpose of maintaining the required minimum balance.

2.6. Pre-Submission Review
Prior to investing in professional design efforts for subdivision plans, it will often prove useful to review the proposed development of a parcel of land with the Planning Board in order that general approaches and potential problems can be freely explored. Pencil sketches, which need not be professionally prepared, will assist the discussion, and might show some but not all of the information required on a preliminary plan. Such review shall be without prejudice to the Planning Board and the applicant for the purposes of preliminary and definitive plan review.
SECTION 3.0 PROCEDURE FOR THE SUBMISSION AND APPROVAL OF PLANS

3.1. Plan Believed Not To Require Approval

3.1.1. Submission of Plan
Any person wishing to cause to be recorded in the Registry of Deeds or to be filed with the Land Court a plan of land and who believes that his plan does not require approval under the Subdivision Control Law may submit an original reproducible copy of said plan and four (4) contact prints thereof and two (2) original copies of a properly executed Form A to the Planning Board agent, accompanied by the necessary evidence to show that the plan does not require approval and the appropriate filing fee (see Section 2.5). Said person shall file, by delivery or registered mail, a written notice with the Town Clerk stating the date of submission to the Board for such determination accompanied by a copy of said application and describing the land to which the plan relates sufficiently for identification. If the notice is given by delivery, the Town Clerk shall, if requested, give a written receipt therefor.

3.1.2. Contents
Said plan shall be legibly drawn in accordance with the Rules and Regulations of the Register of Deeds, Chapter 36, M.G.L. Section 13A as amended pertaining to plan size, material, lettering and related requirements. The plan scale shall be forty feet (40') to the inch and contain the following:

3.1.2.1. Identification of the plan by name of owner of record and location of the land in question, distance to the nearest intersection street, the scale, north point and date.

3.1.2.2. The statement "Approval Under Subdivision Control Law No' Required," and sufficient space for the date and the signatures of all members of the Board.

3.1.2.3. Zoning classification and location of any Zoning District Boundaries that may lie within the locus of the plan. The Assessor's map blocks and lot numbers of subject property shall be shown.

3.1.2.4. In the case of the creation of a new lot, the remaining land area and frontage of the land in the ownership of the applicant shall be shown.

3.1.2.5. Notice of any proceedings and copies of decisions by the Zoning Board of Appeals, including but not limited to variances and special permits (exceptions), regarding the land or any buildings thereon.

3.1.2.6. Names of abutters from the most recent local tax list unless the applicant has knowledge of any changes subsequent to the latest available Assessor's records.

3.1.2.7. Names and status (private or public) of streets, ways and easements shown on the plan, to include, but not limited to the construction materials of the way; the width of the pavement, if any; the width of the layout of the way or easement; and the book/page of record for the ways and easements.

3.1.2.8. Bearings and distances of all lines of the lot or lots shown on the plan.
3.1.2.9. Location of all existing buildings, including setback, side yard and rear yard designations on land under consideration.

3.1.2.10. Location of all bounds, fences, and walls on land under consideration.

3.1.2.11. All plans shall show the edge of wetlands, the edge of the 100 year flood plain, the edge of isolated areas subject to flooding, the banks of intermittent streams, the banks of perennial streams, the banks of lakes and ponds, the banks of rivers, the edge of riverfront zones, and the edge of the 100 foot wetland buffer zones as applicable. The limits of these resource areas shall be determined in accordance with applicable Massachusetts Department of Environmental Protection Regulations (310 CMR 10.00-10.60) and any Town of Norfolk Zoning Bylaw, Town Bylaw or Town Regulation relative to wetland protection, aquifer protection, and/or water resource protection.

3.1.2.12. One half inch (1/2") diameter circles shall be provided to indicate house numbers assigned by the Board, except that 2 one half inch (1/2") circles provided for corner lots.

3.1.2.13. Frontage at property and set back line, and area dimensions of each proposed lot.

3.1.2.14. All plans shall be annotated above the signature block with the following statement: "Planning Board endorsement is not a determination as to conformance with Zoning Bylaws".

3.1.3. **Endorsement of Plan Not Requiring Approval**
If the Board or its authorized agent determines that the plan (Form A) does not require approval under the Subdivision Control Law, it shall without a public hearing and within twenty-one (21) days of submission endorse the plan. Planning Board endorsement is not a determination as to conformance with zoning regulations.

The original plan shall be returned to the applicant, and the Board shall also notify the Town Clerk in writing of its action. However, endorsement does not signify buildable lots.

3.1.4. **Determination That Plan Requires Approval**
If the Board determines that the plan does require approval under the Subdivision Control Law, it shall, within twenty-one (21) days of the submission of the plan, so inform the applicant in writing and return the plan. The Board shall also notify the Town Clerk in writing of its action.

3.1.5. **Recording**
The applicant shall file the approved plan at the Registry of Deeds, and shall notify the Board by presenting written evidence of the recording of said plan documents within thirty (30) days of approval.

3.2. **Preliminary Plan**
The applicant is responsible for/encouraged to review copies of the Regulations of other Town Departments/Boards before preparing plans and to become aware of any fees/charges of other Town of Norfolk entities.
3.2.1. Submission of a Preliminary Plan

A Preliminary Plan for a Residential Subdivision may be submitted by the applicant for discussion and approval by the Board. A Preliminary Plan for a Non-Residential Subdivision shall be submitted to the Board. The submission of such a Preliminary Plan will enable the subdivider, the Board, other municipal agencies, and owners of property abutting the subdivision to discuss and clarify the potential problems of such subdivision before a Definitive Plan is prepared. Therefore, although not mandatory for a Residential Subdivision it is strongly recommended that a Preliminary Plan be filed in every case.

Any person submitting a Preliminary Plan shall give written notice to the Town Clerk, by delivery or registered mail; such notices shall identify the tract, the date of submission, and the name and address of the owner (use Form B). The applicant shall file ten (10) prints with the Planning Board. Two prints shall be filed with the Board of Health directly. The Planning Board will distribute plans in accordance with Section 3.3.5.2.

At the time of filing of the preliminary plan, the following shall be submitted:
1. 13 copies of plan (with one additional copy if Open Space Preservation Plan) and
2. 2 additional copies of plan to Board of Health (submitted directly to Board of Health)
3. 5 copies of narrative of concept of how stormwater drainage will be addressed
4. 10 copies of narrative as to proposed scope of traffic review
5. Form B - Application for Approval of a Preliminary Plan
6. Form D - Designer's Certificate
7. Form M-1 - Control Form and Preliminary Plan Checklist
8. 3 copies of Certified List of Abutters as specified in Section 3.3.5.3.
9. Application/Review Fee for Earth Relocation/Removal Permit
10. Application Fee, Review Fee
11. Completed Bank Tax ID Form for review fee funds
12. Letter regarding use of Board's consultant - See Section 2.5.
13. Good Standing Approval from Tax Collector's Office

3.2.2. Contents

The Preliminary Plan shall be drawn on reproducible paper at a scale of forty feet (40') to the inch (1"), and on a maximum sheet size of 24 x 36 inches (twenty-four by thirty-six inches). All plans submitted to the Board shall be prepared and stamped by a Massachusetts Registered Professional Engineer and/or Land Surveyor, as appropriate. A Form D, Designer's Certificate, shall be completed and submitted to the Board. The applicant's engineer or surveyor must certify on Form M-1 that the submission is complete. The plan shall be designated as a "Preliminary Plan" and to form a clear basis for discussion of the details of the subdivision and for preparation of the Definitive Plan, the plan shall contain the following:

3.2.2.1. The subdivision name, if any; boundaries, north arrow, date, scale, legend and title "Preliminary Plan".
3.2.2.2. The names and addresses of the record owner of the land and the subdivider and the name, seal, and address of the designer, engineer and surveyor who made the plan, all of which shall appear in the lower right hand corner.

3.2.2.3. Identify abutting property owners by names and addresses, as determined from the most recent local tax list, unless the applicant shall have more recent knowledge of such abutters.

3.2.2.4. The locus (Scale 1"=1,000') of the land shown on the plan with sufficient information to accurately locate the proposed subdivision.

All plans shall contain a location overview plan at a scale of between one inch (1") to one hundred feet (100') and one inch (1") to four hundred feet (400') depending on the size of the subdivision. The location plan shall show the entire subdivision layout, adjacent streets, if any, or streets within a reasonable distance, sufficient to identify the location of the subdivision and its access from a public street and shall be shown on the Title Sheet.

3.2.2.5. The existing and proposed lines of streets, ways, easements and any public or common areas within the subdivision, in a general manner.

3.2.2.6. Major features of the land such as existing walls, fences, monuments, buildings, wooded areas, outcroppings, ditches, swamps, water bodies and natural waterways. Aerial photographs when available shall be provided. Location and area of dry land satisfying lot area requirements (see Zoning Bylaws) shall also be indicated.

3.2.2.7. A general description of the type of systems of sewage disposal, water installation and surface drainage in a general manner including adjacent existing natural waterways.

3.2.2.8. The approximate boundary lines of proposed lots, with lot numbers, approximate areas and dimensions. Lot numbers are to be unique along a given street including extensions.

3.2.2.9. The names, approximate location and widths of adjacent streets, and of streets approaching or within 500' of the subdivision. Information to demonstrate that adequate stopping sight distance can be achieved shall also be provided (see Section 4).

3.2.2.10. The topography of the land with a two foot (2') contour interval based on the Town Datum (National Geodetic Vertical Datum of 1929 [NGVD]). Water bodies and their maximum annual elevations shall be shown with the date of measurement. The FEMA community panel number, zone designation, and base flood elevation shall be indicated on the plans.

3.2.2.11. Soil type based on the standards of United States Department of Agriculture, Soil Conservation Service.

3.2.2.12. Letter designation or names of the proposed streets.
3.2.2.13. Preliminary profiles of existing grades and approximate proposed finished grades of the roadway, drainage and utilities.

3.2.2.14. Area of contiguous land and water of the applicant not presently being subdivided, with a sketch plan showing a feasible future street layout for such contiguous land, if any.

3.2.2.15. The zoning classification of land shown on the plan and the location of any zoning district boundaries including any overlay zoning, flood plains and wetland districts.

3.2.2.16. The Assessors' Map, Block, and Lot Numbers of subject property shall be shown.

3.2.2.17. Easements and rights-of-way applicable to the area shown on the plan.

3.2.2.18. Appropriate title block and signature space shall be provided. Reference to an approved Preliminary Plan or Definitive Plan for the site shall also be indicated, if applicable.

3.2.2.19. All proposed waivers to be requested or a statement to the effect that no waivers are being requested shall be indicated on the plans.

3.2.3. Approval of a Preliminary Plan

The Board may give such Preliminary Plan approval, with or without modification or suggestion, after the Board's review, and at the Board's option, review with the Board of Health, the Conservation Commission, the Board's Engineer/Consultant, Highway Department, Water Commissioners and other Town agencies. Such approval does not constitute approval of the subdivision but enhances the Definitive Plan review/approval process.

Within forty-five (45) days after the proper submission of a preliminary plan, each Board (Planning and Health) shall file its findings in accordance with Section 81-S of Chapter 41, M.G.L. as amended.

The original of the Preliminary Plan will be returned to the applicant. Approval shall be effective for seven (7) months from the date of plan submittal.

3.2.4. Disapproval of a Preliminary Plan

In the event of disapproval of a Preliminary Plan, the Board shall state the reasons for its disapproval in accordance with Section 81-S of Chapter 41, M.G.L.

3.3. Definitive Plan

The applicant is responsible for/encouraged to review copies of the Regulations of other Town Departments/Boards before preparing plans and to become aware of any fees/charges of other Town of Norfolk entities.
3.3.1. Submission of a Definitive Plan

In order to maintain statutory rights under the Preliminary Plan, the Definitive Plan(s) shall conform substantially to the Preliminary Plan as approved but may constitute only that portion which is proposed to be recorded and developed at the time. The Subdivision Rules and Regulations and zoning in effect at the time of the submission of the Preliminary Plan shall govern the Definitive Plans(s) if it is duly submitted within seven months of the Preliminary Plan submittal.

Any person who submits a Definitive Plan of a subdivision to the Board for approval shall file with the Board all items required in subsections 3.3.1., 3.3.2., 3.3.3. and 3.3.4. of this Section and the appropriate filing fee (see Section 2.5) for a Definitive Plan to be "dually submitted" in accordance with these Rules and Regulations and the General Laws of Massachusetts. Such submission shall be made to the Planning Board or its agent and include the following:

3.3.1.1. A reproducible drawing of the Definitive Plan and the following contact prints thereof, shall be dark line on white background.

The Planning Board Agent shall distribute the prints as indicated in Section 3.3.5.2.

Where flood plain/wetlands are involved on a Definitive Plan, the applicant must file the Definitive Plan with the Norfolk Conservation Commission simultaneously with the filing of the Definitive Plan with the Planning Board. A final decision by the Planning Board will be forthcoming only after the applicant has obtained a written report from the Conservation Commission stating that the basic location of the roadway layout and drainage structures can be built without being in violation of the Wetland Protection Act, M.G.L. 131, Section 40 and Town of Norfolk Bylaws.

Also, where flood plain/wetlands are involved on a Definitive Plan, the applicant shall clearly delineate the location of same and indicate the percent of land area for each lot that is flood plain/wetlands.

Consideration may be given to lack of improvements on roads leading to the subdivision. The Applicant may be required to make necessary improvements on roads leading to the subdivision.

When the subdivision requires modification to an existing town road under the jurisdiction of the Board of Selectmen, the applicant must simultaneously file the plan with the Selectmen. A final decision by the Planning Board will be forthcoming only after the applicant has obtained approval from the Board of Selectmen to undertake the modification.
3.3.1.2. At the time of filing of the definitive plan, the following shall be submitted:

- 13 copies of plan (one additional when open space preservation subdivision)
- 2 additional copies of plan to Board of Health (submitted directly to Board of Health)
- 5 copies of stormwater/drainage report
- 10 copies of impact statement
- 5 copies of traffic assessment (study) (with additional copies as may be requested on a case by case basis)

Form C - Application for Approval of a Definitive Plan
Form D - Designer's Certificate
Form M-2 - Control Form and Definitive Plan Checklist

3 copies of Certified List of Abutters as specified in Section 3.3.5.3.
Application for Earth Removal from Board of Selectmen (where applicable)
Earth Relocation/Removal Application from Planning Board (where applicable)
Application to Highway Superintendent for Street Excavation Permit and, when applicable, Scenic Roads Act Hearing and Shade Tree Hearing
Application Fee, Review Fee, Earth Relocation/Removal Application and Review Fee (when applicable)
Completed Bank Tax ID Form for review fee funds
Letter regarding use of Board's consultant - See Section 2.5.
Good Standing Approval from Tax Collector's Office

3.3.1.3. The Definitive Plan shall be prepared by a Project Team which shall include a Professional Civil Engineer (PE) and a Professional Land Surveyor (RLS) registered in Massachusetts and professional personnel of other disciplines as specified in applicable sections of these Rules and Regulations. All professional personnel shall maintain current registration or certification if available for that discipline in Massachusetts.

3.3.1.3.1. The classification and precision of surveys shall conform to Class A or better of the most recent Land Court Manual of Instructions, Commonwealth of Massachusetts. It is recommended that all other survey and Definitive Plan preparation, where not herein specified, be guided by the Manual of Instructions.

3.3.1.3.2. The plan shall be a scale of one inch (1") equals forty feet (40') or such other scale as the Board may accept to show details clearly and adequately.

All plans shall contain a location overview plan at a scale of between one inch (1") to one hundred feet (100') and one inch (1") to four hundred feet (400') depending on the size of the subdivision. The location plan shall show the entire subdivision layout, adjacent streets, if any, or streets within a reasonable distance, sufficient to identify the location of the subdivision and its access from a public street and shall be shown on the Title Sheet.

3.3.1.3.3. Sheet sizes shall be twenty-four by thirty-six inches (24" x 36") including a three-quarter inch (3/4") border.
3.3.1.3.4. All plans shall include a plat of the locus and a facsimile of a one (1) square mile section of the current Zoning Map at a scale of one (1") inch equals one thousand (1000') feet showing the relation of the subdivision to the highway and major streets in the Town.

3.3.1.3.5. All plans shall include a Title Sheet. If multiple sheets are used, they shall show each lot in its entirety on one (1) sheet and shall be accompanied by an index sheet showing the entire subdivision at a scale of one (1") inch equals two hundred (200) feet. A listing of drawings (plan sheets) and revision status, as well as a legend of symbols shall also be provided.

3.3.1.3.6. Appropriate title block and signature space shall be provided in accordance with the typical detail in Appendix D. The title block shall be located in the lower right-hand corner of each plan sheet and the signature space for both the Planning Board and Town Clerk shall be located on the right side of each plan sheet. Reference to an approved Preliminary Plan or Definitive Plan for the site shall also be indicated, if applicable.

3.3.1.3.7. All plans shall contain a location overview plan at a scale of between one inch (1") to one hundred feet (100') and one inch (1") to four hundred feet (400') depending on the size of the subdivision. The location plan shall show the entire subdivision layout, adjacent streets, if any, or streets within a reasonable distance, sufficient to identify the location and the access to the land, and shall be shown on the Title Sheet.

3.3.1.4. The applicant shall also file by delivery or registered mail a notice with the Town Clerk stating the date of submission to the Board for such approval accompanied by a copy of the completed Form C - Application for Approval of Definitive Plan.

3.3.2. Contents

The applicant's engineer or surveyor must certify on Form M-2 that the submission is complete. The Definitive Plan shall contain the following information:

3.3.2.1.1. A cover sheet, which includes an overall plan view of the subdivision lots with designations as to what page(s) of the plan those lots can be found in greater detail and a key plan indicating what can be found on each plan sheet.

3.3.2.1.2. A title, appearing in the lower right-hand corner of each sheet showing the name of the subdivision, if any; the date; scale; north arrow, the names and seals of the designer, engineer and surveyor who made the plan. A revision block shall also be provided on each sheet indicating the number, date and description of all revisions.

3.3.2.2. North arrow, whether true, magnetic or grid along with a benchmark and so indicated, and the boundaries of the subdivision indicated by shading.

3.3.2.3. Location and ownership of abutting property as it appears on the Certified List of Abutters, unless the applicant shall have more recent knowledge of such abutters, so indicated, including all abutting land owned by the applicant not presently being subdivided and location and ownership of all other land within five hundred feet (500') of the boundaries of the land shown in the subdivision.
3.3.2.4. Major features of the land, such as: existing waterways, swamps and water bodies, natural drainage courses, walls, fences, buildings, wooded areas, outcroppings and ditches, old foundations, burial grounds, wells and other structures which exist on or near the site at the time of survey. Where available, aerial photographs may be required. Location and area of dry land satisfying the requirements for "Continuous Buildable Lot Area" of the Zoning Bylaws shall be indicated. The limits of any vegetated wetland including any swamp, wooded swamp, meadow, bog or marsh shall be established in the field by a professional botanist and shall be mapped through a field survey of the botanist's markings and shown on the plan. FEMA panel number, Zone designation, and base flood elevation shall be indicated on the plan.

3.3.2.5. Lines of existing and proposed streets, setback lines, ways, lots, lot numbers of each lot designated numerically in sequence, easements, and public or common areas within the subdivision. The name designation of proposed streets shall be shown in pencil. Half inch (½") circles are to be shown on each lot for house numbers to be assigned by the Board. (Two half inch circles for corner lots.) Lot numbers are to be unique along a given street including extensions.

3.3.2.6. Sufficient data to determine the location, direction and length of every street and way line, lot line and boundary line, and to establish these lines on the ground. This shall include the lengths and bearings of plan and boundary lines of all subdivision lot lines including lot frontage on the streets, of the radii, tangents, and central angles of all curves in lot lines and street line. All angle points, or intersections of tangents along the street lines shall be shown, areas of lots with lot numbers and the area and frontage on public ways as set forth in Section 81-L of Chapter 41 M.G.L. of adjoining lands of the applicant not included in the Subdivision shall be shown.

The surveyor shall submit mathematical computations (lot closures and build factor calculations) for all lots under consideration.

Subdivision streets shall be listed separately on the plan as parcels (ie Parcel A, Parcel B, Parcel C, etc.) with the square footage of these "parcels" included. Parcels are not subject to the application fees as lots.

If the subdivision street is to be only partially constructed, the constructed portion and unconstructed portion are to be identified as separate parcels. Each parcel (street) is to include the length of roadway in feet and miles.

3.3.2.7. Location of all permanent monuments properly identified as to whether existing or proposed. The proposed subdivision shall be tied into the nearest existing town, county, or state bound.

3.3.2.8. Location, names pavement widths, right-of-way widths, and designation as public or private of all streets or private ways bounding, approaching or within reasonable proximity of the subdivision.
3.3.2.9. The zoning district classification of land shown on the plan and the location of any zoning district boundaries that lie within the locus of the plan and the applicable minimum lot size, frontage, front, side and rear yard setback requirements as appropriate.

3.3.2.10. Assessor's Map, Block, and Lot of subject property shall be shown on the plan.

3.3.2.11. Indication of all existing and proposed easements and rights-of-way applying to the land and their purposes, whether or not within the subdivision, and any decision on appeal or any variance or exceptions (special permits) made by the Zoning Board of Appeals applicable to the subdivision of the land or any buildings thereon.

3.3.2.12. If the property that comprises the subdivision or any part or boundary thereof has been examined, approved, and confirmed by the Massachusetts Land Court, such information shall be noted on the plan with case numbers and other pertinent references to Land Court Procedure, and the same requirement shall apply to any adjoining parcels of land of the applicant.

3.3.2.13. Suitable space to record the action of the Planning Board and the signatures of all members of the Board including, where appropriate, the words "Deeds of easements to be recorded herewith" or the words "Covenants to be recorded herewith." The signature space shall appear on the right side of each plan sheet and shall include space for Town Clerk.

3.3.2.14. Frontage at property and setback line, and dimensions of each proposed lot.

3.3.2.14.1. Base lines shall be clearly indicated on all submitted plans showing stations at all points of curvature, points of tangency, angle points, and one hundred foot stations.

NOTE: (Items 3.3.2.15. through 3.3.2.22. shall be submitted on separate sheets of the same size and material as the plan sheet. Each sheet shall bear title block and signature block as required in paragraphs 3.3.2.1. and 3.3.2.13, above. Item 3.3.2.21. shall be submitted in text and tabular form.)

3.3.2.15. Plan and Profile
Existing profiles of the street exterior and center lines drawn fine black line; dot long dash for left, short dash for right side, and solid for center-line. Proposed profile on the finished center-line drawn in heavy black solid line of proposed streets at a horizontal scale of one inch (1") equals forty feet (40') and vertical scale of one inch (1") equals four feet (4'), or such other scales acceptable to the Board.

Existing and proposed centerline grades are to be shown on plan profile sheets. Grades are to be shown at 50 foot intervals at even stations and half stations. Elevations are also to be shown at the PVC, PVI, and PVT of vertical curves and at 25 foot intervals along the vertical curve. All existing and proposed intersections and sidewalks, curb-cut ramps, bikeways and walkways, storm drains and water lines shall be shown with all proposed grade elevations calculated. Elevations are to be referenced to the Town Datum (National Geodetic Vertical Datum of 1929, NGVD.) Gradients shall be shown by figures expressed in per cent.
3.3.2.16. **Contour Plan/Grading Plan**

Existing and proposed topography shall be shown at two feet (2') contour intervals. In no case shall earth removal exceed more than 10,000 cubic yards for the construction of the roadway whether in the layout or on adjacent lots. There shall also be indicated by differentiating symbols the contour line for four feet (4') above said high water mark. All lot grading must be indicated on the plans to ensure that proper lot drainage and site grading issues are addressed. All benchmarks shall be noted, as well as items required in Section 3.3.4. Existing contours shall be shown as dashed lines with all existing topography screened and proposed contours solid.

The Board may require certification of compliance with G.L. Chapter 21E, as most recently amended, with respect to the existence of contamination or threat of contamination on the site.

Removal of earth shall be performed in accordance with the requirements set forth later in Appendix A and in accordance with Town of Norfolk Bylaws (Article VII - Land Use And Resource Protection) as most recently amended, as specified by other agencies. The grading plan shall indicate conformance, as applicable.

3.3.2.17. **Utility Plan**

Size and location of existing and proposed water supply mains, hydrants, gas, electric, telephone, cable tv, fire alarm, street lighting, sanitary sewers, storm drains, and including all appurtenances and easements pertinent thereto, logs of borings and test pits, and method of carrying water to the nearest watercourse or easements for drainage as needed, whether or not within the subdivision. Location of proposed driveways shall be indicated on the plan.

If the Planning Board approves off site surface water discharge, the applicant or Developer shall clearly indicate what course the discharge will take, and shall present to the Board evidence from their Engineer that such discharge is satisfactory and permitted by public or private ownership of adjacent street or property. In general, surface water shall be contained on site.

All transformers are to be located outside the right of way on easements for individual lots.

The utility installation shall not interfere with the installation of sidewalks, trees, retaining walls, guardrails or other subdivision improvements.

The Board is to be supplied a copy of the plan prepared by the electric utility company showing the proposed location of the transformers and the Board's agent is to make a site observation of transformer pad locations prior to installation of the transformers. The final location of transformers and easements shall be approved by the Board prior to construction and shall be shown on the As-Built Plan.
3.3.2.18. **Drainage Calculations**  
Drainage calculations shall be submitted in a suitable form along with amplying plans outlining drainage areas within and affecting the subdivision. A plan shall also be submitted showing the route followed by all drainage discharging from the subdivision to the primary receiving water course, other large body of water or on-site disposal.

3.3.2.19. **Tree Plan**  
For the area within the proposed street right-of-way and ten feet (10') beyond and parallel thereto, show the following superimposed on the contour plan:

(a) Existing trees if in living viable condition and having a trunk in excess of twelve inches (12") in diameter measured four feet (4') above grade or if of special importance because of species or distance from other trees, or if field-marked for location by the Planning Board or its agent; in each case, indicating whether such tree is to be retained or removed.

(b) Proposed plantings and easements in accordance with Town Bylaws and these Rules and Regulations (Sections 4 & 5).

3.3.2.20. **Cross-Sections**  
Typical cross-sections of each street, roadway, drainage ditch and sidewalk to be constructed.

3.3.2.21. **Impact Studies and Assessments**  
The Applicant shall inform the Planning Board of any and all impacts that the proposed development may have on the abutters, neighborhood, community and Town. These impacts include the aspects of traffic, water supply, solid waste disposal, sewerage, storm water drainage, fire/police protection and infrastructure in general, as well as environmental contamination issues of noise, water, air, etc. The Applicant shall also indicate the measures which will be implemented to mitigate the results of these impacts.

The Board may additionally require at its discretion that the Applicant prepare and submit impact studies and assessments for specific aspects that the Board believes to be of paramount concern to the health, safety and welfare of the Town. The need for a study/assessment will be based upon the Board's determination that a potential significant impact(s) exists and mitigation measures are required.

The Board may require an impact statement as to the effect of a proposed subdivision on schools, police, fire protection, traffic, and municipal services.

The impact study shall include impact of drainage on abutting public water supply as well as impact on the public water supply in general.

The Applicant shall use appropriate professionals to perform the necessary studies/assessments and the appropriate number of copies of the results shall be presented in a written report to the Board, as required.”
RULES AND REGULATIONS
GOVERNING THE SUBDIVISION OF LAND
NORFOLK, MASSACHUSETTS

INTRODUCTION

(Adopted under the Subdivision Control Law Section 81-K to 81-GG inclusive Chapter 41, G.L.)

SECTION 1.0 PURPOSE AND AUTHORITY

1.1. **Purpose**

These subdivision regulations are adopted under the provisions of Chapter 41 of the General Laws consistent with the purpose of protecting the safety, convenience and welfare of the inhabitants of the Town of Norfolk by "regulating the laying out and construction of ways in subdivisions providing access to the several lots therein, but which have not become public ways, and ensuring sanitary conditions in subdivisions and in proper cases parks and open areas. The powers of a planning board and a board of appeal under the subdivision control law shall be exercised with due regard for the provision of adequate access to all of the lots in a subdivision by ways that will be safe and convenient for travel; for lessening congestion in such ways and in the adjacent public ways, for reducing danger to life and limb in the operation of motor vehicles; for securing safety in the case of fire, flood, panic and other emergencies; for insuring compliance with the applicable zoning ordinances or bylaws; for securing adequate provision for water, sewerage, drainage and other requirements where necessary in a subdivision; and for coordinating the ways in a subdivision with each other and with the public ways in the city or town in which it is located and with the ways in neighboring subdivisions". (MGL Chapter 41, Section 81-K)

1.2. **Authority**

Under the authority vested in the Planning Board of the Town of Norfolk by Section 81-Q of Chapter 41 of the General Laws, said Board hereby adopts these amended rules and regulations governing the subdivision of land in the Town of Norfolk. Such rules and regulations as amended shall be effective on July 28, 2000.
SECTION 2.0 GENERAL

2.1. Definitions

APPLICANT A person (as hereinafter defined) who applies for the approval of a plan of a subdivision (Section 3) or approval of a site plan (Section 7). "Applicant" shall include an owner, or his agent or representative, or his assigns. The Applicant may or may not be the Developer.

AASHTO American Association of State Highway and Transportation Officials.

BASE FLOOD The 'Base Flood Elevation' shall be the level of flooding having a one percent chance of being equalled or exceeded in any given year, as designated on Flood Insurance Rate Maps (FIRM) cited in the Zoning Bylaw, or, in the absence of such designation, to be verified by the Planning Board based upon the best available information regarding flood hazards, including any available United States Geologic Survey's, Soil Conservation Service's, and Corps of Engineers studies.

BENCH MARK A mark made in a durable non-growing object of known position and elevation as a reference point. All benchmarks shall be referenced to the National Geodetic Vertical Datum (N.G.V.D.) of 1929.

BIKEWAY A way designed to be used principally or exclusively by a bicycle or similar unpowered vehicle.

BLOCK An area of land enclosed on two or more sides by street right-of-way.

BOARD The Planning Board of the Town of Norfolk.

BRIDLE PATH A way designed to be used principally or exclusively for equestrian purposes.

CUL DE SAC A street with only one outlet to a through street.

DEFINITIVE PLAN The plan of a subdivision as duly submitted with appropriate and completed application to the Board for approval, to be recorded in the Registry of Deeds or filed with the Land Court when approved by the Board, and as distinguished from a Preliminary Plan.

DESIGNER A Registered Professional Engineer (Civil) and/or a Registered Professional Land Surveyor licensed to practice in the Commonwealth of Massachusetts.

DEVELOP To construct a street, install utilities, erect a house or other structure, or take other action in furthance thereof.

DEVELOPER A person (as hereinafter defined) who proposes to develop either a subdivision under a plan of a subdivision approved pursuant to Sec. 3 of these Rules and Regulations or a Site Plan in accordance with the provisions of Sec. 7 of these Rules and Regulations. The Developer may or may not be the Applicant.

DRAINAGE The control of surface water within the tract of land to be subdivided or the site plan.

EASEMENT A right acquired by public authority or other person to use or control
<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENDOURED BY</td>
<td>Shall mean bearing a certification or endorsement signed by a majority of the members of the Planning Board as applied to a plan or other instrument required or authorized by the Subdivision Control Law to be recorded.</td>
</tr>
<tr>
<td>FOOTPATH</td>
<td>See WALKWAY.</td>
</tr>
<tr>
<td>LOT</td>
<td>See Town of Norfolk Zoning ByLaws for definition.</td>
</tr>
<tr>
<td>LOT AREA</td>
<td>The horizontal area of the lot exclusive of any area in a street or recorded way open or proposed to be open to public use. For lots created subsequent to September 9, 1974, at least 75% of the lot area required for zoning compliance shall be land other than that under any body of water, including watercourses, or any bog, swamp, wet meadow, or marsh, as defined in Section 40, Chapter 131, M.G.L., to be determined by the Building Commissioner, following consultation with the Conservation Commission.</td>
</tr>
<tr>
<td>MONUMENT</td>
<td>A permanent marker to indicate a boundary.</td>
</tr>
<tr>
<td>MUNICIPAL SERVICES</td>
<td>Sanitary sewers, storm drains, water pipes, gas pipes, electrical lines, telephone lines, cable tv system, fire alarm and similar systems and their respective appurtenances. (See Private &amp; Public Utilities)</td>
</tr>
<tr>
<td>OWNER</td>
<td>As applied to real estate, the person holding the record title to a parcel, tract or lot of land, as shown by the certified record in the Land Registration Office or the Registry of Deeds or Registry of Probate.</td>
</tr>
<tr>
<td>PEDESTRIAN WAY</td>
<td>A way providing public access for pedestrians near the right of way of an existing way, consisting of an easement of at least twenty feet, which is normally parallel to the street. Pedestrian Ways are primarily designed and intended to be used by pedestrians for convenient circulation or access to schools, playgrounds, shopping, churches, transportation, parks, conservation areas and/or other facilities. See Sec. 8 for B1 and C1 requirements.</td>
</tr>
<tr>
<td>PERSON</td>
<td>An individual, or two or more individuals or a group or association of individuals, a partnership, trust or corporation, or governmental agency having common or undivided interests in a tract of land.</td>
</tr>
<tr>
<td>PRELIMINARY PLAN</td>
<td>A plan of a proposed subdivision or resubdivision of land prepared and duly submitted in accordance with Section 3.2, in order to facilitate preparation of a Definitive Plan.</td>
</tr>
<tr>
<td>PLANNING BOARD REPRESENTATIVE/AGENT</td>
<td>Town employee or private consultant authorized by the Planning Board to review subdivisions and administer the regulations.</td>
</tr>
<tr>
<td>PRIVATE UTILITIES</td>
<td>This term shall include telephones, cable television, electric light and power, and gas lines whether installed on, above or beneath the surface of the ground.</td>
</tr>
<tr>
<td>PUBLIC UTILITIES</td>
<td>This term shall include only sanitary sewers, fire alarms, storm water drains and water pipes and their appurtenances, which may become the property or responsibility of the Town.</td>
</tr>
<tr>
<td>RECORDED</td>
<td>Recorded shall mean recorded in the Registry of Deeds of Norfolk County,</td>
</tr>
</tbody>
</table>
except that, as affecting registered land, it shall mean filed with the Recorder of the Land Court. (Section 81-L of Chapter 41 M.G.L).

REGISTERED MAIL
Registered or certified mail.

REGISTRY OF DEEDS
The Norfolk County Registry of Deeds and, where appropriate, shall include the Land Court of Norfolk County.

ROADWAY
That portion of a way which is designed and constructed for vehicular travel.

SIDEWALK
A paved way within the right-of-way of a street normally parallel to the street, primarily designed and intended for use by pedestrians.

STANDARD SPECIFICATIONS
"Massachusetts Highway Department (MHD)" (formerly "The Commonwealth of Massachusetts, Department of Public Works), Standard Specifications for Highways and Bridges", latest edition as amended.

STREET
See Town of Norfolk Zoning Bylaws for definition.

PRIMARY
A street which carries traffic equivalent to that generated by 50 dwelling units or more, or which serves property either used or zoned for business or industry.

SECONDARY
A street which carries traffic equivalent to that generated by more than 7 but fewer than 50 dwelling units, and which is not capable of extension to serve more than 50 dwelling units.

RESIDENTIAL
A street which carries traffic equivalent to that generated by 7 or fewer dwelling units, and which is not capable of extensions. A cul de sac that cannot be extended.

THROUGH
A street with an outlet to more than one paved public way.

SUBDIVISION
The division of a tract of land into two (2) or more lots and shall include re-subdivision, and, when appropriate to the context, shall relate to the process of subdivision or the land or territory subdivided; provided, however, that the division of a tract of land into two (2) or more lots shall not be deemed to constitute a subdivision within the meaning of the subdivision control law if, at the time when it is made, every lot within the tract so divided has a frontage on (a) public way, or a way which the Town Clerk of the Town of Norfolk certifies is maintained and used as a public way, or (b) a way shown on a plan theretofore approved and endorsed in accordance with the Subdivision Control Law, or (c) a way in existence before March 31, 1954, having in the opinion of the Planning Board sufficient width, suitable grades and adequate construction to provide for the needs of vehicular traffic in relation to the proposed use of the land abutting thereon or served thereby, and for the installation of municipal services to serve such land and the buildings erected or to be erected thereon. Such frontage shall be of at least such distance as is then required by the Zoning Bylaw. Conveyances or other instruments adding to, taking away from, or changing the size and shape of lots in such a manner as not to leave any lot so affected without the frontage above set forth, or the division of a tract of land on which one (1) of such buildings remains standing, shall not constitute a subdivision. (Section 81-L of Chapter 41, M.G.L.).
SUBDIVISION CONTROL

The power of regulating the subdivision of land granted by the Subdivision Control Law, Chapter 41, Sections 81-K through GG inclusive, as amended.

TOWN

Town of Norfolk, Massachusetts.

WALKWAY

A way near the right of way of a street consisting of a parcel or easement of at least five feet, which is normally parallel to the street. Walkways/footpaths are primarily designed and intended to be used by pedestrians for convenient circulation or access to schools, playgrounds, shopping, churches, transportation, parks, conservation areas and/or other facilities. See Sec. 8 for B1 and C1 requirements.

2.2. Access to Lots

Primary access for each lot shown on a definitive plan or a plan not requiring subdivision control (81P) shall be from the street on which its frontage is measured. See Zoning Bylaws.

2.3. Regulation of New Subdivisions

No person shall make a subdivision, within the meaning of the Subdivision Control Law, of any land within the Town, or proceed with the improvement or sale of lots in a subdivision, or the construction of ways, or the installation of Municipal Services therein, unless and until a Definitive Plan of such subdivision has been submitted to and approved by the Planning Board as hereinafter provided. (Section 81-O of Chapter 41, M.G.L.)

2.4. Plan Preparation

All plans submitted to the Board shall be prepared and stamped by a Massachusetts Registered Professional Engineer and/or Land Surveyor, as appropriate. Form D, Designer’s Certificate, shall be completed and submitted to the Board.

2.5. Application, Review and Inspection Fees

See Appendix A for applicable Application, Review and Performance/Observation Inspection Fee Schedule. Review Fee Administration shall be as follows:

2.5.1. General Requirements

When reviewing an application for subdivision or site plan approval, the Board may determine that the assistance of outside consultants is warranted due to the size, scale or complexity of a proposed project or because of a project’s potential impact. The Board may require that the applicant pay a "review fee" consisting of the reasonable costs incurred by the Board for the employment of outside consultants engaged by the Board to assist in the review of an application, in accordance with c. 593 of the Acts of 1989.

2.5.2. Eligible Consultants

In hiring outside consultants, the Board may engage engineers, planners, lawyers, urban designers, or other appropriate professionals who can assist the Board in analyzing a project to ensure compliance with all relevant laws, bylaws and regulations.

2.5.3. Fund Administration

Funds received by the Board pursuant to this section shall be deposited with the town Treasurer who shall establish a special account for this purpose. Expenditures from this special account may be made at the direction of the Board without further appropriation. Expenditures from this special account shall be made only in connection with the review of a specific project or projects for which a review fee has been or will be collected from the applicant. Failure of an applicant to pay a review fee shall be grounds for denial of the application.
If an applicant wishes to receive interest on the balance remaining in his review fee special account, a form must be completed entitled "Client Group Account, Client Account Application - Certification of Taxpayer Identification Number".

2.5.4. Fund Expenditures
Review fees may only be spent for services rendered in connection with the specific project from which they were collected. Accrued interest may also be spent for this purpose. At the completion of the Board's review of a project, any excess amount in the account, including interest, attributable to a specific project, shall be repaid to the applicant or the applicant's successor in interest. For the purpose of the regulation, any person or entity claiming to be an applicant's successor in interest shall provide the Board with documentation establishing such succession in interest.

2.5.5. Administrative Appeal
Any applicant may take an administrative appeal from the selection of the outside consultant to the Board of Selectmen. Such appeal must be taken within ten (10) business days of the decision by the Board to so select, and it must be made by certified mail, return receipt requested addressed to the Board of Selectmen, with a copy to the Planning Board. The date of mailing shall control. In the event such an appeal is taken, the applicant shall, at the same time, execute and deliver to the Planning Board an offer of extension to the application made under the Subdivision Control Law for a period of not less than thirty (30) days. The grounds for such an appeal shall be limited to claims that the consultant selected has a conflict of interest or does not possess the minimum required qualifications. The minimum required qualifications shall consist either of an educational degree in, or related to, the field at issue or three or more years of practice in the field at issue or a related field. The required time limit for action upon an application by the Board shall be extended by the duration of the administrative appeal. In the event that no decision is made by the Board of Selectmen within one month following the filing of the appeal, the selection made by the Planning Board shall stand.

2.5.6. Review Fee Retainer
At the time of submission, the applicant shall provide payment in the amount(s) specified in the fee schedule, by check or money order payable to "Norfolk Planning Board Review Account". The applicant shall maintain a balance in such account of at least 50% of the initial payment amount. Additional retainage of higher amounts may be required in the case of extraordinary size or complexity of projects. The Planning Board may periodically bill the applicant for the purpose of maintaining the required minimum balance.

2.6. Pre-Submission Review
Prior to investing in professional design efforts for subdivision plans, it will often prove useful to review the proposed development of a parcel of land with the Planning Board in order that general approaches and potential problems can be freely explored. Pencil sketches, which need not be professionally prepared, will assist the discussion, and might show some but not all of the information required on a preliminary plan. Such review shall be without prejudice to the Planning Board and the applicant for the purposes of preliminary and definitive plan review.
SECTION 3.0 PROCEDURE FOR THE SUBMISSION AND APPROVAL OF PLANS

3.1. Plan Believed Not To Require Approval

3.1.1. Submission of Plan
Any person wishing to cause to be recorded in the Registry of Deeds or to be filed with the Land Court a plan of land and who believes that his plan does not require approval under the Subdivision Control Law may submit an original reproducible copy of said plan and four (4) contact prints thereof and two (2) original copies of a property executed Form A to the Planning Board agent, accompanied by the necessary evidence to show that the plan does not require approval and the appropriate filing fee (see Section 2.5). Said person shall file, by delivery or registered mail, a written notice with the Town Clerk stating the date of submission to the Board for such determination accompanied by a copy of said application and describing the land to which the plan relates sufficiently for identification. If the notice is given by delivery, the Town Clerk shall, if requested, give a written receipt therefor.

3.1.2. Contents
Said plan shall be legibly drawn in accordance with the Rules and Regulations of the Register of Deeds, Chapter 36, M.G.L. Section 13A as amended pertaining to plan size, material, lettering and related requirements. The plan scale shall be forty feet (40') to the inch and contain the following:

3.1.2.1. Identification of the plan by name of owner of record and location of the land in question, distance to the nearest intersection street, the scale, north point and date.

3.1.2.2. The statement "Approval Under Subdivision Control Law Not Required," and sufficient space for the date and the signatures of all members of the Board.

3.1.2.3. Zoning classification and location of any Zoning District Boundaries that may lie within the locus of the plan. The Assessor's map blocks and lot numbers of subject property shall be shown.

3.1.2.4. In the case of the creation of a new lot, the remaining land area and frontage of the land in the ownership of the applicant shall be shown.

3.1.2.5. Notice of any proceedings and copies of decisions by the Zoning Board of Appeals, including but not limited to variances and special permits (exceptions), regarding the land or any buildings thereon.

3.1.2.6. Names of abutters from the most recent local tax list unless the applicant has knowledge of any changes subsequent to the latest available Assessor's records.

3.1.2.7. Names and status (private or public) of streets, ways and easements shown on the plan, to include, but not limited to the construction materials of the way; the width of the pavement, if any; the width of the layout of the way or easement; and the book/page of record for the ways and easements.

3.1.2.8. Bearings and distances of all lines of the lot or lots shown on the plan.
3.1.2.9. Location of all existing buildings, including setback, side yard and rear yard designations on land under consideration.

3.1.2.10. Location of all bounds, fences, and walls on land under consideration.

3.1.2.11. All plans shall show the edge of wetlands, the edge of the 100 year flood plain, the edge of isolated areas subject to flooding, the banks of intermittent streams, the banks of perennial streams, the banks of lakes and ponds, the banks of rivers, the edge of riverfront zones, and the edge of the 100 foot wetland buffer zones as applicable. The limits of these resource areas shall be determined in accordance with applicable Massachusetts Department of Environmental Protection Regulations (310 CMR 10.00-10.60) and any Town of Norfolk Zoning Bylaw, Town Bylaw or Town Regulation relative to wetland protection, aquifer protection, and/or water resource protection.

3.1.2.12. One half inch (1/2") diameter circles shall be provided to indicate house numbers assigned by the Board, except that 2 one half inch (1/2") circles provided for corner lots.

3.1.2.13. Frontage at property and set back line, and area dimensions of each proposed lot.

3.1.2.14. All plans shall be annotated above the signature block with the following statement: "Planning Board endorsement is not a determination as to conformance with Zoning Bylaws".

3.1.3. Endorsement of Plan Not Requiring Approval
If the Board or its authorized agent determines that the plan (Form A) does not require approval under the Subdivision Control Law, it shall without a public hearing and within twenty-one (21) days of submission endorse the plan. Planning Board endorsement is not a determination as to conformance with zoning regulations.

The original plan shall be returned to the applicant, and the Board shall also notify the Town Clerk in writing of its action. However, endorsement does not signify buildable lots.

3.1.4. Determination That Plan Requires Approval
If the Board determines that the plan does require approval under the Subdivision Control Law, it shall, within twenty-one (21) days of the submission of the plan, so inform the applicant in writing and return the plan. The Board shall also notify the Town Clerk in writing of its action.

3.1.5. Recording
The applicant shall file the approved plan at the Registry of Deeds, and shall notify the Board by presenting written evidence of the recording of said plan documents within thirty (30) days of approval.

3.2. Preliminary Plan
The applicant is responsible for/encouraged to review copies of the Regulations of other Town Departments/Boards before preparing plans and to become aware of any fees/charges of other Town of Norfolk entities.
3.2.1. Submission of a Preliminary Plan

A Preliminary Plan for a Residential Subdivision may be submitted by the applicant for discussion and approval by the Board. A Preliminary Plan for a Non-Residential Subdivision shall be submitted to the Board. The submission of such a Preliminary Plan will enable the subdivider, the Board, other municipal agencies, and owners of property abutting the subdivision to discuss and clarify the potential problems of such subdivision before a Definitive Plan is prepared. Therefore, although not mandatory for a Residential Subdivision it is strongly recommended that a Preliminary Plan be filed in every case.

Any person submitting a Preliminary Plan shall give written notice to the Town Clerk, by delivery or registered mail; such notices shall identify the tract, the date of submission, and the name and address of the owner (use Form B). The applicant shall file ten (13) prints with the Planning Board. Two prints shall be filed with the Board of Health directly. The Planning Board will distribute plans in accordance with Section 3.3.5.2.

At the time of filing of the preliminary plan, the following shall be submitted:
13 copies of plan (with one additional copy if Open Space Preservation Plan) and
2 additional copies of plan to Board of Health [submitted directly to Board of Health]
5 copies of narrative of concept of how stormwater drainage will be addressed
10 copies of narrative as to proposed scope of traffic review
Form B - Application for Approval of a Preliminary Plan
Form D - Designer's Certificate
Form M-1 - Control Form and Preliminary Plan Checklist
3 copies of Certified List of Abutters as specified in Section 3.3.5.3.
Application/Review Fee for Earth Relocation/Removal Permit
Application Fee, Review Fee
Completed Bank Tax ID Form for review fee funds
Letter regarding use of Board's consultant - See Section 2.5.
Good Standing Approval from Tax Collector's Office

3.2.2. Contents

The Preliminary Plan shall be drawn on reproducible paper at a scale of forty feet (40') to the inch (1"), and on a maximum sheet size of 24 x 36 inches (twenty-four by thirty-six inches). All plans submitted to the Board shall be prepared and stamped by a Massachusetts Registered Professional Engineer and/or Land Surveyor, as appropriate. A Form D, Designer's Certificate, shall be completed and submitted to the Board. The applicant's engineer or surveyor must certify on Form M-1 that the submission is complete. The plan shall be designated as a "Preliminary Plan" and to form a clear basis for discussion of the details of the subdivision and for preparation of the Definitive Plan, the plan shall contain the following:

3.2.2.1. The subdivision name, if any; boundaries, north arrow, date, scale, legend and title "Preliminary Plan".
3.2.2.2. The names and addresses of the record owner of the land and the subdivider and the name, seal, and address of the designer, engineer and surveyor who made the plan, all of which shall appear in the lower right hand corner.

3.2.2.3. Identify abutting property owners by names and addresses, as determined from the most recent local tax list, unless the applicant shall have more recent knowledge of such abutters.

3.2.2.4. The locus (Scale 1"=1,000') of the land shown on the plan with sufficient information to accurately locate the proposed subdivision.

All plans shall contain a location overview plan at a scale of between one inch (1") to one hundred feet (100') and one inch (1") to four hundred feet (400') depending on the size of the subdivision. The location plan shall show the entire subdivision layout, adjacent streets, if any, or streets within a reasonable distance, sufficient to identify the location of the subdivision and its access from a public street and shall be shown on the Title Sheet.

3.2.2.5. The existing and proposed lines of streets, ways, easements and any public or common areas within the subdivision, in a general manner.

3.2.2.6. Major features of the land such as existing walls, fences, monuments, buildings, wooded areas, outcroppings, ditches, swamps, water bodies and natural waterways. Aerial photographs when available shall be provided. Location and area of dry land satisfying lot area requirements (see Zoning Bylaws) shall also be indicated.

3.2.2.7. A general description of the type of systems of sewage disposal, water installation and surface drainage in a general manner including adjacent existing natural waterways.

3.2.2.8. The approximate boundary lines of proposed lots, with lot numbers, approximate areas and dimensions. Lot numbers are to be unique along a given street including extensions.

3.2.2.9. The names, approximate location and widths of adjacent streets, and of streets approaching or within 500' of the subdivision. Information to demonstrate that adequate stopping sight distance can be achieved shall also be provided (see Section 4).

3.2.2.10. The topography of the land with a two foot (2') contour interval based on the Town Datum (National Geodetic Vertical Datum of 1929 [NGVD]). Water bodies and their maximum annual elevations shall be shown with the date of measurement. The FEMA community panel number, zone designation, and base flood elevation shall be indicated on the plans.

3.2.2.11. Soil type based on the standards of United States Department of Agriculture, Soil Conservation Service.

3.2.2.12. Letter designation or names of the proposed streets.
3.2.2.13. Preliminary profiles of existing grades and approximate proposed finished grades of the roadway, drainage and utilities.

3.2.2.14. Area of contiguous land and water of the applicant not presently being subdivided, with a sketch plan showing a feasible future street layout for such contiguous land, if any.

3.2.2.15. The zoning classification of land shown on the plan and the location of any zoning district boundaries including any overlay zoning, flood plains and wetland districts.

3.2.2.16. The Assessors' Map, Block, and Lot Numbers of subject property shall be shown.

3.2.2.17. Easements and rights-of-way applicable to the area shown on the plan.

3.2.2.18. Appropriate title block and signature space shall be provided. Reference to an approved Preliminary Plan or Definitive Plan for the site shall also be indicated, if applicable.

3.2.2.19. All proposed waivers to be requested or a statement to the effect that no waivers are being requested shall be indicated on the plans.

3.2.3. Approval of a Preliminary Plan

The Board may give such Preliminary Plan approval, with or without modification or suggestion, after the Board’s review, and at the Board’s option, review with the Board of Health, the Conservation Commission, the Board’s Engineer/Consultant, Highway Department, Water Commissioners and other Town agencies. Such approval does not constitute approval of the subdivision but enhances the Definitive Plan review/approval process.

Within forty-five (45) days after the proper submission of a preliminary plan, each Board (Planning and Health) shall file its findings in accordance with Section 81-S of Chapter 41, M.G.L. as amended.

The original of the Preliminary Plan will be returned to the applicant. Approval shall be effective for seven (7) months from the date of plan submittal.

3.2.4. Disapproval of a Preliminary Plan

In the event of disapproval of a Preliminary Plan, the Board shall state the reasons for its disapproval in accordance with Section 81-S of Chapter 41, M.G.L.

3.3. Definitive Plan

The applicant is responsible for/encouraged to review copies of the Regulations of other Town Departments/Boards before preparing plans and to become aware of any fees/charges of other Town of Norfolk entities.
3.3.1. Submission of a Definitive Plan

In order to maintain statutory rights under the Preliminary Plan, the Definitive Plan(s) shall conform substantially to the Preliminary Plan as approved but may constitute only that portion which is proposed to be recorded and developed at the time. The Subdivision Rules and Regulations and zoning in effect at the time of the submission of the Preliminary Plan shall govern the Definitive Plans(s) if it is duly submitted within seven months of the Preliminary Plan submittal.

Any person who submits a Definitive Plan of a subdivision to the Board for approval shall file with the Board all items required in subsections 3.3.1., 3.3.2., 3.3.3. and 3.3.4. of this Section and the appropriate filing fee (see Section 2.5) for a Definitive Plan to be "duly submitted" in accordance with these Rules and Regulations and the General Laws of Massachusetts. Such submission shall be made to the Planning Board or its agent and include the following:

3.3.1.1. A reproducible drawing of the Definitive Plan and the following contact prints thereof, shall be dark line on white background.

The Planning Board Agent shall distribute the prints as indicated in Section 3.3.5.2.

Where flood plain/wetlands are involved on a Definitive Plan, the applicant must file the Definitive Plan with the Norfolk Conservation Commission simultaneously with the filing of the Definitive Plan with the Planning Board. A final decision by the Planning Board will be forthcoming only after the applicant has obtained a written report from the Conservation Commission stating that the basic location of the roadway layout and drainage structures can be built without being in violation of the Wetland Protection Act, M.G.L. 131, Section 40 and Town of Norfolk Bylaws.

Also, where flood plain/wetlands are involved on a Definitive Plan, the applicant shall clearly delineate the location of same and indicate the percent of land area for each lot that is flood plain/wetlands.

Consideration may be given to lack of improvements on roads leading to the subdivision. The Applicant may be required to make necessary improvements on roads leading to the subdivision.

When the subdivision requires modification to an existing town road under the jurisdiction of the Board of Selectmen, the applicant must simultaneously file the plan with the Selectmen. A final decision by the Planning Board will be forthcoming only after the applicant has obtained approval from the Board of Selectmen to undertake the modification.
3.3.1.2. At the time of filing of the definitive plan, the following shall be submitted:
13 copies of plan (one additional when open space preservation subdivision)
2 additional copies of plan to Board of Health (submitted directly to Board of Health)
5 copies of stormwater/drainage report
10 copies of impact statement
5 copies of traffic assessment (study) (with additional copies as may be requested on a case by case basis)
Form C -  Application for Approval of a Definitive Plan
Form D -  Designer's Certificate
Form M-2 -  Control Form and Definitive Plan Checklist
3 copies of Certified List of Abutters as specified in Section 3.3.5.3.
Application for Earth Removal from Board of Selectmen (where applicable)
Earth Relocation/Removal Application from Planning Board (where applicable)
Application to Highway Superintendent for Street Excavation Permit and, when applicable, Scenic Roads Act Hearing and Shade Tree Hearing
Application Fee, Review Fee, Earth Relocation/Removal Application and Review Fee (when applicable)
Completed Bank Tax ID Form for review fee funds
Letter regarding use of Board's consultant - See Section 2.5.
Good Standing Approval from Tax Collector's Office

3.3.1.3. The Definitive Plan shall be prepared by a Project Team which shall include a Professional Civil Engineer (PE) and a Professional Land Surveyor (RLS) registered in Massachusetts and professional personnel of other disciplines as specified in applicable sections of these Rules and Regulations. All professional personnel shall maintain current registration or certification if available for that discipline in Massachusetts.

3.3.1.3.1. The classification and precision of surveys shall conform to Class A or better of the most recent Land Court Manual of Instructions, Commonwealth of Massachusetts. It is recommended that all other survey and Definitive Plan preparation, where not herein specified, be guided by the Manual of Instructions.

3.3.1.3.2. The plan shall be a scale of one inch (1") equals forty feet (40') or such other scale as the Board may accept to show details clearly and adequately.

All plans shall contain a location overview plan at a scale of between one inch (1") to one hundred feet (100') and one inch (1") to four hundred feet (400') depending on the size of the subdivision. The location plan shall show the entire subdivision layout, adjacent streets, if any, or streets within a reasonable distance, sufficient to identify the location of the subdivision and its access from a public street and shall be shown on the Title Sheet.

3.3.1.3.3. Sheet sizes shall be twenty-four by thirty-six inches (24" x 36") including a three-quarter inch (3/4") border.
3.3.1.3.4. All plans shall include a plat of the locus and a facsimile of a one (1) square mile section of the current Zoning Map at a scale of one (1") inch equals one thousand (1000') feet showing the relation of the subdivision to the highway and major streets in the Town.

3.3.1.3.5. All plans shall include a Title Sheet. If multiple sheets are used, they shall show each lot in its entirety on one (1) sheet and shall be accompanied by an index sheet showing the entire subdivision at a scale of one (1) inch equals two hundred (200) feet. A listing of drawings (plan sheets) and revision status, as well as a legend of symbols shall also be provided.

3.3.1.3.6. Appropriate title block and signature space shall be provided in accordance with the typical detail in Appendix D. The title block shall be located in the lower right-hand corner of each plan sheet and the signature space for both the Planning Board and Town Clerk shall be located on the right side of each plan sheet. Reference to an approved Preliminary Plan or Definitive Plan for the site shall also be indicated, if applicable.

3.3.1.3.7. All plans shall contain a location overview plan at a scale of between one inch (1") to one hundred feet (100') and one inch (1") to four hundred feet (400') depending on the size of the subdivision. The location plan shall show the entire subdivision layout, adjacent streets, if any, or streets within a reasonable distance, sufficient to identify the location and the access to the land, and shall be shown on the Title Sheet.

3.3.1.4. The applicant shall also file by delivery or registered mail a notice with the Town Clerk stating the date of submission to the Board for such approval accompanied by a copy of the completed Form C - Application for Approval of Definitive Plan.

3.3.2. Contents

The applicant's engineer or surveyor must certify on Form M-2 that the submission is complete. The Definitive Plan shall contain the following information:

3.3.2.1.1. A cover sheet, which includes an overall plan view of the subdivision lots with designations as to what page(s) of the plan those lots can be found in greater detail and a key plan indicating what can be found on each plan sheet.

3.3.2.1.2. A title, appearing in the lower right-hand corner of each sheet showing the name of the subdivision, if any; the date; scale; north arrow, the names and seals of the designer, engineer and surveyor who made the plan. A revision block shall also be provided on each sheet indicating the number, date and description of all revisions.

3.3.2.2. North arrow, whether true, magnetic or grid along with a benchmark and so indicated, and the boundaries of the subdivision indicated by shading.

3.3.2.3. Location and ownership of abutting property as it appears on the Certified List of Abutters, unless the applicant shall have more recent knowledge of such abutters, so indicated, including all abutting land owned by the applicant not presently being subdivided and location and ownership of all other land within five hundred feet (500') of the boundaries of the land shown in the subdivision.
3.3.2.4. Major features of the land, such as: existing waterways, swamps and water bodies, natural drainage courses, walls, fences, buildings, wooded areas, outcroppings and ditches, old foundations, burial grounds, wells and other structures which exist on or near the site at the time of survey. Where available, aerial photographs may be required. Location and area of dry land satisfying the requirements for "Continuous Buildable Lot Area" of the Zoning Bylaws shall be indicated. The limits of any vegetated wetland including any swamp, wooded swamp, meadow, bog or marsh shall be established in the field by a professional botanist and shall be mapped through a field survey of the botanist's markings and shown on the plan. FEMA panel number, Zone designation, and base flood elevation shall be indicated on the plan.

3.3.2.5. Lines of existing and proposed streets, setback lines, ways, lots, lot numbers of each lot designated numerically in sequence, easements, and public or common areas within the subdivision. The name designation of proposed streets shall be shown in pencil. Half inch (⅛") circles are to be shown on each lot for house numbers to be assigned by the Board. (Two half inch circles for corner lots.) Lot numbers are to be unique along a given street including extensions.

3.3.2.6. Sufficient data to determine the location, direction and length of every street and way line, lot line and boundary line, and to establish these lines on the ground. This shall include the lengths and bearings of plan and boundary lines of all subdivision lot lines including lot frontage on the streets, of the radii, tangents, and central angles of all curves in lot lines and street line. All angle points, or intersections of tangents along the street lines shall be shown, areas of lots with lot numbers and the area and frontage on public ways as set forth in Section 81-L of Chapter 41 M.G.L. of adjoining lands of the applicant not included in the Subdivision shall be shown.

The surveyor shall submit mathematical computations (lot closures and build factor calculations) for all lots under consideration.

Subdivision streets shall be listed separately on the plan as parcels (ie Parcel A, Parcel B, Parcel C, etc.) with the square footage of these "parcels" included. Parcels are not subject to the application fees as lots.

If the subdivision street is to be only partially constructed, the constructed portion and unconstructed portion are to be identified as separate parcels. Each parcel (street) is to include the length of roadway in feet and miles.

3.3.2.7. Location of all permanent monuments properly identified as to whether existing or proposed. The proposed subdivision shall be tied into the nearest existing town, county, or state bound.

3.3.2.8. Location, names pavement widths, right-of-way widths, and designation as public or private of all streets or private ways bounding, approaching or within reasonable proximity of the subdivision.
3.3.2.9. The zoning district classification of land shown on the plan and the location of any zoning district boundaries that lie within the locus of the plan and the applicable minimum lot size, frontage, front, side and rear yard setback requirements as appropriate.

3.3.2.10. Assessor's Map, Block, and Lot of subject property shall be shown on the plan.

3.3.2.11. Indication of all existing and proposed easements and rights-of-way applying to the land and their purposes, whether or not within the subdivision, and any decision on appeal or any variance or exceptions (special permits) made by the Zoning Board of Appeals applicable to the subdivision of the land or any buildings thereon.

3.3.2.12. If the property that comprises the subdivision or any part or boundary thereof has been examined, approved, and confirmed by the Massachusetts Land Court, such information shall be noted on the plan with case numbers and other pertinent references to Land Court Procedure, and the same requirement shall apply to any adjoining parcels of land of the applicant.

3.3.2.13. Suitable space to record the action of the Planning Board and the signatures of all members of the Board including, where appropriate, the words "Deeds of easements to be recorded herewith" or the words "Covenants to be recorded herewith." The signature space shall appear on the right side of each plan sheet and shall include space for Town Clerk.

3.3.2.14. Frontage at property and set back line, and dimensions of each proposed lot.

3.3.2.14.1. Base lines shall be clearly indicated on all submitted plans showing stations at all points of curvature, points of tangency, angle points, and one hundred foot stations.

NOTE: (Items 3.3.2.15. through 3.3.2.22. shall be submitted on separate sheets of the same size and material as the plan sheet. Each sheet shall bear title block and signature block as required in paragraphs 3.3.2.1. and 3.3.2.13. above. Item 3.3.2.21. shall be submitted in text and tabular form.)

3.3.2.15. Plan and Profile
Existing profiles of the street exterior and center lines drawn fine black line; dot long dash for left, short dash for right side, and solid for center-line. Proposed profile on the finished center-line drawn in heavy black solid line of proposed streets at a horizontal scale of one inch (1") equals forty feet (40') and vertical scale of one inch (1") equals four feet (4'), or such other scales acceptable to the Board.

Existing and proposed centerline grades are to be shown on plan profile sheets. Grades are to be shown at 50 foot intervals at even stations and half stations. Elevations are also to be shown at the PVC, PVI, and PVT of vertical curves and at 25 foot intervals along the vertical curve. All existing and proposed intersections and sidewalks, curb-cut ramps, bikeways and walkways, storm drains and water lines shall be shown with all proposed grade elevations calculated. Elevations are to be referenced to the Town Datum (National Geodetic Vertical Datum of 1929, NGVD.) Gradients shall be shown by figures expressed in per cent.
3.3.2.16. **Contour Plan/Grading Plan**

Existing and proposed topography shall be shown at two feet (2') contour intervals. In no case shall earth removal exceed more than 10,000 cubic yards for the construction of the roadway whether in the layout or on adjacent lots. There shall also be indicated by differentiating symbols the contour line for four feet (4') above said high water mark. All lot grading must be indicated on the plans to ensure that proper lot drainage and site grading issues are addressed. All benchmarks shall be noted, as well as items required in Section 3.3.4. Existing contours shall be shown as dashed lines with all existing topography screened and proposed contours solid.

The Board may require certification of compliance with G.L. Chapter 21E, as most recently amended, with respect to the existence of contamination or threat of contamination on the site.

Removal of earth shall be performed in accordance with the requirements set forth later in Appendix A and in accordance with Town of Norfolk Bylaws (Article VII - Land Use And Resource Protection) as most recently amended, as specified by other agencies. The grading plan shall indicate conformance, as applicable.

3.3.2.17. **Utility Plan**

Size and location of existing and proposed water supply mains, hydrants, gas, electric, telephone, cable tv, fire alarm, street lighting, sanitary sewers, storm drains, and including all appurtenances and easements pertinent thereto, logs of borings and test pits, and method of carrying water to the nearest watercourse or easements for drainage as needed, whether or not within the subdivision.

Location of proposed driveways shall be indicated on the plan.

If the Planning Board approves off site surface water discharge, the applicant or Developer shall clearly indicate what course the discharge will take, and shall present to the Board evidence from their Engineer that such discharge is satisfactory and permitted by public or private ownership of adjacent street or property. In general, surface water shall be contained on site.

All transformers are to be located outside the right of way on easements for individual lots.

The utility installation shall not interfere with the Installation of sidewalks, trees, retaining walls, guardrails or other subdivision improvements.

The Board is to be supplied a copy of the plan prepared by the electric utility company showing the proposed location of the transformers and the Board's agent is to make a site observation of transformer pad locations prior to installation of the transformers. The final location of transformers and easements shall be approved by the Board prior to construction and shall be shown on the As-Built Plan.
3.3.2.18. **Drainage Calculations**  
Drainage calculations shall be submitted in a suitable form along with amplifying plans outlining drainage areas within and affecting the subdivision. A plan shall also be submitted showing the route followed by all drainage discharging from the subdivision to the primary receiving water course, other large body of water or on site disposal.

3.3.2.19. **Tree Plan**  
For the area within the proposed street right-of-way and ten feet (10') beyond and parallel thereto, show the following superimposed on the contour plan:

(a) Existing trees if in living viable condition and having a trunk in excess of twelve inches (12") in diameter measured four feet (4') above grade or if of special importance because of species or distance from other trees, or if field-marked for location by the Planning Board or its agent; in each case, indicating whether such tree is to be retained or removed.

(b) Proposed plantings and easements in accordance with Town Bylaws and these Rules and Regulations (Sections 4 & 5).

3.3.2.20. **Cross-Sections**  
Typical cross-sections of each street, roadway, drainage ditch and sidewalk to be constructed.

3.3.2.21. **Impact Studies and Assessments**  
The Applicant shall inform the Planning Board of any and all impacts that the proposed development may have on the abutters, neighborhood, community and Town. These impacts include the aspects of traffic, water supply, solid waste disposal, sewerage, storm water drainage, fire/police protection and infrastructure in general, as well as environmental contamination issues of noise, water, air, etc. The Applicant shall also indicate the measures which will be implemented to mitigate the results of these impacts.

The Board may additionally require at its discretion that the Applicant prepare and submit impact studies and assessments for specific aspects that the Board believes to be of paramount concern to the health, safety and welfare of the Town. The need for a study/assessment will be based upon the Board’s determination that a potential significant impact(s) exists and mitigation measures are required.

The Board may require an impact statement as to the effect of a proposed subdivision on schools, police, fire protection, traffic, and municipal services.

The impact study shall include impact of drainage on abutting public water supply as well as impact on the public water supply in general.

The Applicant shall use appropriate professionals to perform the necessary studies/assessments and the appropriate number of copies of the results shall be presented in a written report to the Board, as required.
3.3.2.22. **Sedimentation and Erosion Control Plan**
A Comprehensive Sedimentation and Erosion Control Plan shall be submitted to the Board and/or other Town Agencies showing the staging of construction and the measures to limit water borne and wind induced erosion, which shall include quick root vegetation, expeditious stabilization of disturbed area, hay bales, diversions, siltation fences, and sedimentation basins. The pre-development and construction stage sediment loadings in all water courses shall be calculated using the Universal Soil Loss Equation.

3.3.2.23. **Traffic Congestion Control and Analysis**
Maintenance of a high level of service on Town roadways is important to the preservation of safety, convenience and character of the town of Norfolk. New development shall only be permitted when the projected traffic to be generated by the development can be accommodated either by existing roadway capacity or through proposed improvements that will ensure safety and the preservation of Norfolk's Town character.

3.3.2.23.1. **Definitions:**

3.3.2.23.1.1. Capital Transportation Improvements are major and generally costly tasks aimed at improving local transportation networks; including but not limited to the planning of, engineering for, acquisition of land for, and construction of roads, turn lanes, intersection improvements and signalization, but not including routine maintenance.

3.3.2.23.1.2. Level of Service (LOS) is a measurement of the adequacy of a roadway segment or intersection to handle the existing or proposed flow of traffic. LOS shall be calculated using the methodology of the most recent edition of the Transportation Research Board Highway Capacity Manual.

3.3.2.23.1.3. Peak Periods mean the times during the day and week which represent the maximum levels of traffic flow and shall be determined for the specific use proposed; generally, commuter peaks are considered to be from 7:00 a.m.-9:00 a.m. and 4:00 p.m.-6:00 p.m. Monday through Friday. Retail peaks occur on Saturdays, weekday evenings, and major holidays or seasons.

3.3.2.23.1.4. Adjacent Road Network means all primary and secondary roads located within a one-half (½) mile radius of the nearest point of the proposed development, including proposed primary and secondary roads necessitated by new land development activity which will generate traffic. The adjacent road network may include roadways within adjacent towns.

3.3.2.23.1.5. Trip Generation means the addition of motor vehicle trips to area roadways as a result of any given type of land use activity or development which attracts or produces such trips. Trip generation figures shall be calculated using the numbers presented in the most recent edition of the Institute of Transportation Engineer's Trip Generation.

3.3.2.23.1.6. Adequate shall mean a Level of Service "B" or better for rural, scenic and residential streets, and for new streets and intersections to be created in connection with the proposed project; and "C" or better for all other streets and intersections.
3.3.23.2. Traffic Impact Analysis

To assist the Town in reviewing the potential impacts of traffic generated by a proposed use or development of land, all applications for subdivision approval or site plan approval must be accompanied with ten (10) copies of the Traffic Impact Analysis, unless waived by the Board following a finding that traffic impacts caused by the proposed use or development of land will be insignificant, and that Level of Service (LOS) be maintained or improved as a result of the project.

3.3.23.2.1. The Traffic Impact Analysis must document the existing traffic conditions in the vicinity of the proposed project, and the potential impacts of the traffic generated by the proposed development on the adjacent road network. Any measures proposed to mitigate adverse traffic impacts shall be identified and described.

3.3.23.2.2. Any project which would result in a significant decrease (one full level or below LOS C) in Level of Service or any part of the Adjacent Road Network during peak periods shall:

a. reduce the scale of the project to maintain the Adjacent Road Network at the existing Level of Service during Peak Periods, or

b. phase the project to match the availability of planned local improvements to the Adjacent Road Network which will maintain an Adequate Level of Service following construction, or

c. undertake the necessary Capital Improvements to improve or maintain the Adequacy of the Adjacent Road Network, or

d. provide an off site roadway or improvements bond for the necessary off-site capital improvements equal to the development's cost of lessening congestion that results from the proposed development as determined by the Planning Board, its agent or representative.

3.3.23.2.3. Contents of Traffic Impact Analysis

The following information shall be included in the traffic impact analysis for the Adjacent Roadway Network. The Board may waive any sections of these requirements it deems appropriate upon request and on a case-by-case basis.

a. existing traffic conditions: average daily and peak hour volumes, average and peak speeds, accident data, LOS of intersections and street segments likely to be affected by the proposed development,

b. projected traffic conditions for the design year of the project,
c. projected impact of proposed development: peak hour and daily traffic to be generated by the development; sight lines at new intersections; proposed traffic controls; projected post-development LOS and volumes on affected streets.

d. monitoring of post-development projections shall occur approximately twelve (12) months after full build out is complete. The post-development traffic report shall catalogue activity related to LOS, volumes and safe access and approval of this report shall be the basis of the final bond release.

e. data submitted for initial approval/review shall be no more than six (6) months old at the date of application, unless due to significant recent development the Board determines there will be a significant impact on the numbers.

3.3.2.24. Curb Tie and Alignment Plan
A curb tie and alignment plan shall be submitted showing the following information:

- Station and offset to all curbs at their point of curvature (P.C.), point of tangency (P.T.), and point of compound curvature (P.C.C.)
- Existing and proposed bounds with a tie in to the nearest Town, County, or state bound.
- Chart indicating all proposed bounds with north and east coordinates and station and offset.
- Bearings, distances, and curve data for all existing and proposed base lines, curb lines, and right-of-way lines.
- Widths of existing and proposed traveled ways, grass strips, and sidewalks.
- Stations of all intersecting existing and proposed base lines.
- Chart indicating the location by station of curb cut ramps along with the roadway identification.

3.3.2.25. Waivers, Construction Sequencing and Timing
The plans shall indicate all waivers requested by the applicant and approved by the Planning Board. The plans shall also show the proposed construction sequencing and timing for the subdivision.

3.3.2.26. Detail Plan
A plan shall be prepared and submitted indicating all the details in plan, section, and elevation as required to fully understand and complete the proposed project in accordance with the Planning Board's Rules and Regulations. Details included in the Planning Board Rules and Regulations and required for the proposed project shall be included on the detail plan. In addition, the Planning Board may require additional details to be included with the contact plans which it believes will assist the contractor and the Town of Norfolk to fully understand the proposed project.

3.3.2.28. Wetland and Water Resource Protection
The attention of the applicant is directed to provisions of Section 40 of Chapter 131, Protection of Wetlands, and to any Town of Norfolk Zoning Bylaw and Bylaw regulations relative to wetland protection, aquifer protection, and/or water
resource protection.

3.3.3. Staking
To facilitate review of the Definitive Plan by the appropriate authorities, at the
time of filing of the Definitive Plan, the applicant shall stake the center line of all
proposed streets at a minimum of every one hundred feet (100') with the center
line stations including intersections with existing roadways.

3.3.4. Soil Survey and Percolation Tests
The Board or its agent may require soil surveys and/or test pits or borings, which
are to be prepared at the expense of the applicant, in order to establish the
suitability of the land for the proposed storm drainage system and proposed
street construction.

See also Norfolk Board of Health Regulations.

3.3.4.1. Test pits, borings or soundings shall be taken along the center line of each street
shown on the plan at intervals of at least every two hundred feet (200') and at
locations such as cut sections and areas of questionable foundation material
where the subsurface conditions may be, in the opinion of the Board or its Agent,
factors affecting the quality and service life of the street. Test pits shall be made
under the supervision of an Agent of the Planning Board, and shall not be
backfilled until the applicant has been notified by the Board or its Agent that all
necessary inspection and sampling has been completed. Where borings are
used, samples shall be taken at five foot (5') intervals and at each change in
strata. Soundings shall be taken in areas of unsuitable material for the purpose of
determining the hard bottom contours. Test pits and boring, where required, shall
extend to a minimum depth of five feet (5') below the street profile grade or to
bedrock, whichever is less. The applicant shall indicate on the plan a proposed
layout of the subsurface exploration program complete with location, spacing,
and type of exploration proposed.

3.3.4.2. Soil surveys, when required by the Board or its Agent, shall include a test excavat-
ton not less than seven feet (7') below finished grade at a frequency of one (1)
per every four (4) lots, location of which must be shown on the contour plan, and
a report thereon, a percolation test at a frequency of one (1) per every four (4)
lots, location of which must be shown on the contour plan, and a report thereon.
Percolation test shall be in accordance with Title 5 of the Commonwealth of
Massachusetts State Environmental Code as supplemented.

3.3.4.3. All information concerning the test pits, borings or soundings (location, depth, soil
strata, depth of water table) shall be submitted to the Board in a written report to
be made, evaluated and stamped by a Registered Professional Engineer.

3.3.5. Procedure

3.3.5.1. Review by Board of Health as to Suitability of Land
At the time of filing of the Definitive Plan, the applicant shall also file with the
Board of Health two (2) contact prints of the Definitive Plan, dark line on white
background, together with any and all information specified in the Board of
Health's Rules and Regulations which may include percolation and other tests as
well as septic system details and other information as the Board of Health may
require. The Board of Health shall within forty-five (45) days after filing of the plan report to the Planning Board in writing its approval or disapproval of sayd plan. If the Board of Health disapproves said plan, it shall make specific findings as to which, if any, of the lots shown on such plan cannot be used for building sites without injury to the public health, and include such specific findings and the reasons therefor in such report, and where possible, shall make recommendations for the adjustment thereof.

Failure of the Board of Health to make such a report within forty-five (45) days after the plan is filed with their office shall be deemed approval by that Board. The Board of Health shall send a copy of their report, if any, to the person who submitted said plan. Every lot so located that it cannot be served by a connection to the municipal sewer system shall be provided with septic tank and drain-field satisfactory to the Board of Health and/or the Commonwealth of Massachusetts Sanitary Code minimum standards as the Board of Health shall determine. A note shall be added to all plans as follows: 'No dwelling will be constructed on any lot without first securing from the Board of Health the Disposal Works Construction Permit required by Title 5 of the State Environmental Code.' The approval of a Definitive Subdivision Plan by the Board does not absolve the developer of any other requirements of the Board of Health or other Town boards.

3.3.5.2. Review by Other Town Officials
The Planning Board Agent will transmit copies of the Definitive Plan to Town Officials other than the Board of Health as follows:

One (1) copy each to the Conservation Commission, Water Commission, Highway Department and the Police Department/Fire Department and also two (2) copies to the Planning Board’s Engineer.

Before the Definitive Plan is approved, the Board will request written statements from the above officials prior to the public hearing with regard to the proposed improvements in the following respect, but not limited to:

3.3.5.2.1. Conservation Commission as to potential involvement with Chapter 131, Section 40, M.G.L. and the effects of the subdivision on streams, wildlife and similar considerations within the scope of the Conservation Commission.

3.3.5.2.2. The Board’s Engineer as to the design of the street system, location of easements, monuments, drainage system, water system and, if applicable, a sewage system and their appurtenances, and relationship to existing water and drainage systems.

3.3.5.2.3. Fire Department as to location of hydrants and emergency access.

3.3.5.2.4. Police Department as to street safety, both vehicular and pedestrian, and access for emergency vehicles.

3.3.5.2.5. Highway Department as to the design of the street system including the feasibility of snow removal from sidewalks and roadways.

3.3.5.2.6. Water Commission as to the design of the water system, as applicable.
3.3.5.3. **Public Hearing**
Before taking any action to approve, modify and approve or disapprove a Definitive Plan, the Board shall hold a hearing at which parties in interest shall have an opportunity to be heard, in person or by agent or attorney. Notice of the time and place of such hearing and of the subject matter, sufficient for identification shall be published in a newspaper of general circulation in the Town of Norfolk once in each of two (2) successive weeks, the first publication to be not less than fourteen (14) days before the date of the hearing and by mailing a copy of such notice to the applicant and to all owners of land abutting the land and all owners of land within three hundred feet (300') of a property line of the land shown on the plan as indicated in the Certified List of Abutters obtained by the Applicant from the Norfolk Board of Assessors.

3.3.5.4. **Planning Board Procedure**
The procedure that the Board will follow with regard to approval, disapproval or modification of the Definitive Plan submitted by the applicant will be that as set forth in Chapter 41, Section 81-U of the General Laws, as amended. In summary, the Board, after receiving the Plan and profiles, will review the same to determine whether they are in compliance with its adopted Rules and Regulations, Zoning Bylaws and other applicable statutes.

The Planning Board may require that a subdivision plan show a park or parks suitably located for playground or recreation purposes or for providing light and air and not unreasonable in area in relation to the area of the land being subdivided and the prospective uses of such land, and it so determined the Board shall endorse the plan to require that no building may be erected on such park or parks for a period of not more than three years without the Board’s approval.

Before approval of the plan, the Board shall establish that the street pattern is safe and convenient, that proper provision is made for street extension and that all other purposes of the General Law are met. The Board may, as a condition of granting approval under Section 81-U, impose reasonable requirements designed to promote the health, convenience, safety and general welfare of the community and to benefit the Town. In such event, the Board shall endorse such conditions on the plan to which they relate, or set forth a separate instrument attached thereto, to which reference is made on such plan and which shall, for the purpose of the Subdivision Control Law, be deemed to be a part of the plan.
Approval or Disapproval

The action of the Board with respect to such plan shall be by vote, copies of which shall be filed with the Town Clerk and sent to the applicant. If the Board modifies or disapproves such plan, it shall state in its vote the reasons for its action. Failure of the applicant to submit revised plans and other required submittals within six (6) months of approval with modifications shall automatically rescind approval of the plan. If subdivision approval is granted by the Board, the applicant shall submit a revised plan reflecting any and all Conditions of Approval within 60-days of filing of Form C-1 "Certificate of Approval of a Definitive Plan" or Form C-2 "Certificate of Approval with Modifications of a Definitive Plan" with the Town Clerk. The Board shall rescind its disapproval if, within six (6) months of such disapproval, the applicant submits revised plans and other required submittals fully conforming to the Rules and Regulations of the Board and resolving the specific reasons for disapproval. The Planning Board on its own motion or on the petition of any interested person, shall have the power to modify, amend, or rescind its approval of a plan of a subdivision, or to require a change in a plan as a condition of its retaining the status of an approved plan. (81-W)

A note shall be added to the approved plan, adjacent to the signature block on all pages with the following words:

"Conditionally approved in accordance with MGL Chapter 41, Section 81U, as shown in covenant to be recorded herewith."

Final approval, if granted, shall be endorsed on the original drawing of the Definitive Plan by the signatures of a majority of the Planning Board but not until the statutory twenty (20) day appeal period has elapsed following the filing of the Board's certificate of approval or disapproval, as the case may be, with the Town Clerk and said Clerk has notified the Board that no appeal has been filed. If appeal has been made, said endorsement shall be made after the entry of the final decree of the court sustaining the approval of such. Final approval shall be subject to the construction specifications contained herein and to the rules and requirements of the Town Departments, Agencies and the Board of Health. Prior to endorsement by the Planning Board, the applicant shall submit the approved version of the plan on an electronic file format acceptable to the Planning Board, which is compatible with AutoCAD Release-14 (or any subsequent release which the Town of Norfolk adopts). After the Definitive Plan has been approved and endorsed, the Board shall return the original to the applicant. The Board may extend the time period permitted by statute between submission of a Definitive Plan and action thereon upon written request of the applicant. Approval of the Definitive Plan does not constitute the laying out or acceptance by the Town of streets shown on the plan.
3.4. Implementation of Definitive Plan

3.4.1. Performance Guarantee

Before endorsement of the Board's approval of any Definitive Subdivision Plan, the applicant shall agree (i) to complete (except in the case of any portion of the subdivision for which a surety company performance bond, a bank passbook, a performance bond secured by a deposit of money, or a Lenders Agreement shall have been filed pursuant to 3.4.1.4.) the required improvements for the subdivision, specified in these Rules and Regulations, within two (2) years of the date of such approval, (ii) to complete the required improvements for any portion of the subdivision, for which a surety company performance bond or a performance bond secured by a deposit of money or Lenders Agreement shall have been filed pursuant to 3.4.1.2., 3.4.1.3. and 3.4.1.4 within two (2) years of the date of the performance bond or within two (2) years of the date of the Board's approval of the Definitive Plan, whichever date shall occur the earlier, and (iii) that no building permits shall be issued until at least the binder course of the bituminous concrete, as specified in these Rules and Regulations, has been applied to the streets which serve that structure.

NOTE: There is a 25% contingency added to all bond estimates and the Board retains a minimum of 10% of the original bonding amount. This is released only after the subdivision street(s) has been accepted by a vote of Town Meeting.

The procedure for posting of a performance guarantee is presented in Appendix A.

Construction of ways and installation of municipal services for an approved subdivision shall be secured by one, or in part by one and in part by the other, of the following methods which may from time to time be varied by the applicant with the written consent of the Board:

3.4.1.1. By a proper bond, sufficient in the opinion of the Planning Board to secure performance of the construction of ways and the installation of municipal services required for lots in the subdivision shown on the plan. The Planning Board may also require that the application specify the time within which such construction shall be completed. Letters of Credit are not considered "proper bond".

The Planning Board may require that the Developer post a proper bond to secure repair and reconstruction of adjacent public ways that may be damaged from construction operations and/or utility improvements associated with the subdivision over and above typical wear and tear. In cases deemed appropriate by the Planning Board, the Board or its agent will establish baseline roadway conditions by performing a roadway condition survey and document the condition of adjacent roadways in a report to the Planning Board with the cost borne by the applicant. The Planning Board or its agent will then establish the value of the bond. After completion of the project, the Planning Board or its agent will determine the extent of any damage present and the amount of any bonded funds to be withheld necessary to repair the affected roadways.

3.4.1.2. By a deposit of money sufficient in the opinion of the Planning Board to secure performance of the construction of ways and the installation of municipal
services required for lots in the subdivision shown on the plan. The Planning Board may also require that the applicant specify the time within which such construction shall be completed.

3.4.1.3. By a covenant, executed and duly recorded by the owner of record, running with the land, whereby such ways and services shall be provided to serve any lot before such lot may be built upon or conveyed, other than by mortgage deed; provided, that a mortgagee who acquires title to the mortgaged premises by foreclosure or otherwise and any succeeding owner of such premises or part thereof may sell any such lot, subject to that portion of the covenant which provides that no lot shall be built upon until such ways and services have been provided to serve such lot; and provided, further, that nothing herein shall be deemed to prohibit a conveyance by a single deed, subject to such covenant, of either the entire parcel of land shown on the subdivision plan or of all lots not previously released by the Planning Board. A deed of any part of the subdivision in violation hereof shall be voidable by the grantee prior to the release of the covenant but not later than three (3) years from the date of such deed.

Failure to so complete the required improvements within two (2) years of the date of the Board's approval of the Definitive Plan shall automatically rescind approval of said plan.

3.4.1.4. By delivery to the Planning Board of an agreement executed after the recording of a first mortgage covering the premises shown on the plan or a portion thereof given as security for advances to be made to the applicant by the lender, which agreement shall be executed by the applicant and the lender and shall provide for the retention by the lender of funds sufficient in the opinion of the Planning Board and otherwise due the applicant, to secure the construction of ways and the installation of municipal services. Said agreement shall also provide for a schedule of disbursements which may be made to the applicant upon completion of various stages of the work, and shall further provide that in the event the work is not completed within the time set forth by the applicant, any funds remaining undisbursed shall be available for completion.

3.4.1.5. A note shall be added to all plans as follows: "Plans subject to covenants, conditions and restrictions set forth in a covenant(s) dated (blank) to be recorded herewith."

3.4.2. Time for Completion

If the ways in any subdivision are not completed and the utilities aforesaid are not installed within the time so agreed to by the applicant or so required by the Board, including any extensions granted by the Board, any such bond may be enforced and any such deposit may be applied by the Planning Board for the benefit of the Town. Ways or portions thereof not completed within the time required shall thereafter be completed in accordance with the design and construction standards of the Board in effect at the time of approval upon the expiration of such time.
Endorsement

No endorsement will be made until the application has paid all bills owned to the Board and all taxes, assessments, and charges owned to the Town of Norfolk have been paid and a Municipal Lien Certificate has been provided to the Planning Board.

All performance observation/inspection fees (Planning Board Consulting Engineer Observation Fee and Town Highway Department Inspection Fee) are to be paid prior to endorsement of the definitive plan and are to be placed in separate accounts. All unexpended funds are to be returned to the applicant at the time of street acceptance by the Town of Norfolk. All such accounts are to be maintained at a minimum of 50% of the (amount of the) original submittal.

Running descriptions of all roads and easements shall be provided for review and approval prior to endorsement.

Deeds to individual lots containing drainage easements within their boundaries shall contain a covenant such that the easements are to be kept clear of trees, plantings, fences, other structures, and the like to provide for accessibility by the Town to perform maintenance to drainage structures after street/easement acceptance at a Town Meeting. Copies of deeds of the lots affected by this type of easement and all other easements (sight line, turning, utility, slope both temporary and permanent etc.) are to be submitted to the Planning Board for review and approval prior to endorsement. In addition, the applicant shall provide the Town of Norfolk with easements for all those areas off the subdivision limits that contain drainage, slope (temporary and permanent) or other types of easements.

At least fifteen days prior to submittal of the plan for endorsement, all required covenants shall be provided to the Planning Board with an attorney’s certification that title to the premises shown on said plan and appurtenance thereto, including any off-site easements and rights of way, are in the applicant’s name and are free of all encumbrances set forth and will not preclude any required subdivision improvements.

All unconstructed portions of any right of way shall be conveyed to the Town. A running description of this property is to be submitted to the Board for review and approval prior to endorsement with the property conveyed to the Town prior to the release of any and all lots in the subdivision.

Recording

The applicant shall file the approved set of Definitive Plan documents (including details, etc.) and covenant, if any, at the Registry of Deeds, and shall notify the Board in writing presenting evidence of the recording of said plan and the covenant within thirty (30) days of approval. The applicant shall deliver to the Board one (1) copy of the approved and recorded Definitive Plans, and a copy of an affidavit filed by the owner stating that the title to the premises shown on said plan and appurtenances thereto are in the Applicant’s name and are free of all encumbrances or with encumbrances as set forth.
3.4.5. Release of Lots

The applicant shall submit to the Board a completed Form H (see Appendix B, Volume II) to seek approval for the release of lots. Lots are only released after 1). the applicant submits an up to date Form K - Inspection Report; 2). all earth removal operations, if any, have been completed and affected area restored as per Earth Removal Regulations (see Appendix); 3). the bituminous binder course is in place and observation has been conducted with the Form K signed signifying approval by the Board's Consultant/Agent; guard rails, if any, have been installed and observation has been conducted and the Form K has been signed off signifying approval of the installation by the Board's Consultant/Agent. Access to all released lots shall be continually maintained.

The approved Form H shall be filed at the Registry of Deeds and written proof of filing submitted to the Board as described above (3.4.4.).

Prior to the release of any lots, all trees and brush that are required to be removed at existing Town ways shall be removed, after required Shade Tree Scenic Roads Act Hearings, and all traffic control devices installed. Deeds to land as a gift of land for future roadways shall also be provided.

3.4.5.1. The applicant shall submit all requests for the setting of bond, reductions in the amount of bond to be held, release of bond, inspection requests, as built inspections and the like to the Board in writing. Requests shall be accompanied by the most up to date Form K, Subdivision Inspection Check List.

3.4.5.2. Conveyance of Utilities and Easements to the Town

Prior to the release by the Board of a surety bond or deposit, or, in the case of a covenant, the issuance of a Release Form, the applicant shall execute a Form L, transferring to the Town, without cost, valid unencumbered title to all common utilities, sewers, storm drains, water mains, and appurtenances thereto, constructed and installed in the subdivision or portion thereto to be approved, and conveying to the Town without cost and free of all liens and encumbrances, perpetual right and easements to construct, inspect, repair, renew, replace, operate and forever maintain the aforesaid underground utilities, with any manholes, pipes, conduits and other appurtenances, and to do all acts incidental thereto, in, through and under the whole of all streets in the subdivision or portion thereof to be approved, and if any such utilities have been constructed and installed in land not within such streets, then in, through and under an easement as shown on the Definitive Plan.

3.4.6. Reduction or Release of Performance Guarantee

3.4.6.1. Reduction of Bond Surety

The penal sum of any such bond or the amount of any deposit held under clause paragraph 3.4.1.1. and 3.4.1.2. may, from time to time, be reduced by the Board and the obligations of the parties thereto released by said Board in whole or in part. If release is by reason of covenant, a new plan of the portion to be subject to the covenant may be required by the Board.
The procedure for reduction of bond surety is presented in Appendix A.

3.4.6.2. Final Release of Performance Guarantee

Upon completion of improvements required in these Rules and Regulations, security for the performance of which was given by bond, deposit or covenant, or upon the performance of any covenant with respect to any lot, the developer or owner, at his expense, will cause to be published in a newspaper of general circulation in the Town of Norfolk at least seven (7) days prior to the releasing of the performance bond or surety, an announcement that such release is contemplated. He shall also send by registered mail to the Town Clerk and the Board a written statement that the said construction or installation in connection with which such bond, deposit or covenant has been secured, has been completed in accordance with the requirements contained in these Rules and Regulations. Such statement to contain:

3.4.6.2.1. Name and address of the applicant.

3.4.6.2.2. A compliance certificate signed under oath by the Developer and his Engineer that the development has been completed according to the Rules and Regulations of the Planning Board and the Town of Norfolk Zoning Bylaws.

3.4.6.2.3. Copies of or reference to the requisite number of inspection Forms and Reports.

3.4.6.2.4. Copy of or reference to the As-Built Acceptance Plan approved by the Board.

3.4.6.2.5. Written evidence from the Town Highway, Water, and Building Departments, as to construction of all ways and sidewalks, installation of monuments, street signs, pavement, lighting, gutters and curbs, required grading and drainage, water mains, hydrants and appurtenances, adequate lot drainage, planting and seeding, all in accordance with the Definitive Plan.

3.4.6.2.6. Written evidence from the Board of Health as to the installation of sewage disposal facilities, if applicable, all in accordance with the Definitive Plan.

3.4.6.3. Determination of Incompleteness

If the Board determines that said construction, installation, or filing of "as-built" plans has not been completed, it shall specify to the Town Clerk and to the developer, in writing, by registered mail, the details wherein said construction and installation shall have failed to comply with the requirements contained in these Rules and Regulations. Upon failure of the Board to act on such application within forty-five (45) days after the receipt of the application by the Town Clerk and the Board, all obligations under the bond shall cease and terminate by operation of law, and any deposit shall be returned and any such covenant shall become void.

In the event that said forty-five (45) day period expires without such specification, or without the release and return of the deposit or release of the covenant as aforesaid, the Town Clerk shall issue a certificate to such effect, duly acknowledged, which may be recorded.
3.4.6.4. **Determination of Completeness**

If the Board determines that said construction, installation, or filing of "as-built" plans has been completed, it shall notify the Town Treasurer within forty-five (45) days on an executed Release Form, that it releases the interest of the Town in such bond or deposit and that it shall be returned to the person or persons who furnished same, or, in the case of covenant it shall issue a written release of the covenant on an executed Release Form.

3.4.7. **As-Built Acceptance Plans**

Prior to binder installation, a red-line as-built plan indicating the location and grades of all water and drain lines, including water stub connections, shall be submitted to the Planning Board for review and approval. The plan may consist of red-line pencil markings on the Approved Definitive Plan. The red-line as-built plan must be endorsed by a Registered Land Surveyor or Professional Civil Engineer.

Prior to the final release, the developer shall file with the Board an as-built acceptance plan of completed street or streets. The plan shall show all plans and profiles corrected and certified by the Applicant's Engineer/Consultant to be actual as-built locations and profiles of all streets, ways and utilities, including those installed by others such as electric, telephone, and gas. Said plans shall be prepared in a manner suitable for recording at the Registry of Deeds. The title portion of the plan shall include the Station Numbers, the length of roadway shown on the plan in number of feet as well as the miles of roadway shown on the plan. All expenses by the Board to review accuracy of said plans will be borne by the Applicant.

3.4.7.1. The Developer shall provide the Planning Board with one (1) set of reproducible plans and four (4) sets of prints of the completed subdivision. The Plans must be prepared by a Registered Professional Engineer and Land Surveyor.

3.4.7.2. **Acceptance Plan** shall show both a plan and profile view of the street as constructed based upon the Definitive Plan. The plan shall be drawn at a scale of $1''=40'$ horizontal and $1''=4'$ vertical on a 24" x 36" sheet.

3.4.7.3. **Plan View**

The following shall be shown as a minimum:

- Widths, lengths, bearings, including radii, tangents, and central angles of all curves, of all boundary lines of streets and easements and curb lines.
- Station and offset to P.O.C., P.R.C., P.C.C. and P.O.T. of all curb lines.
- All required bounds with indication that same have been correctly set with coordinates and station and offset.
- Name, lot, and house number of each abutting owner appearing on the most recent tax list.
North arrow and a minimum of two (2) bench marks referenced to the National Geodetic Vertical Datum (N.G.V.D.) of 1929. The bench marks shall not be located on growing features, such as trees.

Edge, width, and cross slope of traveled ways; indication as to type of edging, or curb; location of ditches, easement structures, and driveways.

Storm drainage and sanitary sewer systems including major structures, culverts, retention/detention systems; size, type, and class of pipe and sub-drains; manholes, catch basins, gutter inlets, flared and metal ends, fieldstone masonry ends, length and width of scour protection, and the location, type, size, and class of service lines to each abutter.

Water systems including size, type, and class of pipe; location and size of all valves, boxes, and fittings, hydrants, air release valves; and the location, type, size, and class of service lines to each abutter.

Gas service including size and type of pipe, location of all valves and boxes, and the location, type, and size of service lines to each abutter.

Electric, telephone, cable TV, and fire alarm systems including location, size and type of conduits, handholes/pullboxes, street light poles, utility poles, transformers, and the location, type, and size of service lines to each abutter.

Location of all retaining walls, street signs, guard rails, and curb-cut ramps.

Location, species, and date of installation of all trees.

Horizontal and vertical sight distances at all intersections in all directions.

Gutter line elevations shall be indicated at all fifty (50) foot stations including P.O.C.s, P.C.C.s, P.R.C.s, and P.T.s.

3.4.7.4. Profile View

The following shall be shown as minimum:

Center line and easement profiles, grades, and elevations with elevations being shown at fifty (50) foot stations and at drainage structures.

All vertical curves, length, stopping sight distance, and elevations at twenty-five (25) foot stations and at the PVC and PVT.

Storm drainage and sanitary sewer systems, water system, structures, culverts, sizes, slopes, rim, and invert elevations.

3.4.7.5. Description

A running description of all ways and easements (drainage, slope both temporary and permanent, cul de sac, tree, utility, etc.) shall be provided. Once the running descriptions are approved by the Planning Board, a Deed for the property and a
Form L (Grant of Easements) shall be submitted.

3.4.7.6. Certifications
The following notes shall appear on the acceptance plan and be endorsed by the Surveyor and Engineer.

1. I hereby certify that ______ (street) ______ has been laid out and the bounds have been set as shown on this plan.

_________________________ Signature

_________________________ Date

2. I hereby certify that this plan shows the actual as built locations, profiles and elevations of the roadways, drainage facilities and utilities based upon a field survey made during the period from ______ to ________.

Surveyor
Engineer _______ Date

3.4.7.7. Signatures
Suitable space for endorsement by members of the Planning Board and Board of Selectmen shall be provided.

3.4.8 GIS As-Built Submission

3.4.8.1. Prior to final release, the developer shall file with the Board, one print copy and one electronic copy of plans conforming to the requirements of Section 3.4.7 and to the requirements set forth herein for incorporation in the Norfolk GIS system.

3.4.8.2. All plans shall utilize the Massachusetts State Plane Coordinate System using the North American Datum of 1983 (NAD83) and the North American Vertical Datum of 1988 (NAVD88) through bounds with published coordinates such as National Geodetic Survey, Mass Highway, etc. The datum and units used shall be clearly shown. In cases where there are no suitable geodetic bounds in the vicinity, the plan shall be tied into existing physical features such as catch basins, manholes, utility poles, etc. In such cases, ties to two or more physical features shall be made for at least two different identifiable points on the plan such as property corners.

3.4.8.3. The plans shall be prepared at a scale of 1 inch = 40 feet or other such scale approved by the Board. All plans submitted under this section shall be submitted on a "Windows" compatible CD-ROM. Acceptable electronic file formats include "AutoCAD.dwg" and "AutoCAD.dxf." Other formats may be acceptable if compatible with the Norfolk GIS system. The Town may require a fee from the Applicant for the expense of integrating the plans into the Town's GIS system.

3.4.8.4. To maintain an updated GIS database, the Town at its discretion may revise format and content requirements for electronic submittals.
SECTION 4.0  GENERAL REQUIREMENTS AND DESIGN STANDARDS

4.1. Basic Requirements/Design Guides

4.1.1. The subdivider shall observe all design standards for land subdivision as hereinafter provided. These standards shall be considered minimum standards and shall be varied from or waived, only as provided in Section 6.

All subdivisions shall be designed and improvements made by the applicant consistent with the requirements of Sections 4 and 5. Refer also to Section 6 of these Rules and Regulations for additional design and construction standards.

4.1.2. Design and construction shall reduce, to the extent reasonably possible, the following:

- Volume of cut and fill;
- Area over which existing vegetation will be disturbed, especially on land within 200 feet of a river, pond, or stream, or having a slope of more than 15%;
- Number of mature trees removed;
- Visual prominence of man-made elements which are not necessary for safety or orientation;
- Visibility of building sites from existing streets;
- Blockage of vistas through new development;
- Removal of existing stone walls;
- Number of driveways exiting onto existing streets or collector roads;
- Alteration in ground water or surface water levels or chemical constituents;
- Disturbance of important wildlife habitats, outstanding botanical features, scenic or historic environs;
- Soil loss or instability during and after construction.

4.1.3. Increase, to the extent reasonably possible, the following:

- Configuration using collector streets to avoid traffic on streets providing house frontages;
- Visual prominence of natural features of the landscape;
- Street layout facilitation of solar orientation of houses;
- Use of curvilinear patterns.

4.1.4. Referenced Standard:
A policy on Geometric Design of Highways and Streets, by the American Association of State Highway and Transportation Officials (AASHTO), latest edition, as amended.

4.2. Relation to Surrounding Areas
The subdivision shall be in conformity with the respective zoning requirements and the general layout shall harmonize and conform with plans for Norfolk, as
adopted by the Planning Board.

4.3. **Minimum Lot**
No lot area or width, in a subdivision, shall be less than the minimum required by the Zoning Bylaw for the District in which it is located.

4.4. **Access Through Another Municipality**
In case access to subdivision crosses land in another municipality, the Board shall require certification, from appropriate authorities, that such access is in accordance with the Master Plan and subdivision requirements of such municipality and that a legally adequate performance bond has been duly posted or that such access is adequately improved to handle prospective traffic.

If a proposed subdivision encompasses the Town of Norfolk and an adjoining town, at least one point of access must be provided in the Town of Norfolk.

4.5. **Reserve Strips**
Reserve strips prohibiting access to streets or adjoining property shall not be permitted, except where, in the opinion of the Board, such strips shall be in the public interest.

4.6. **Further Subdivisions**
In case a tract is subdivided into larger parcels than ordinary building lots or if a subdivision is adjacent to a tract capable of subdivision, such parcels and streets shall be arranged so as to allow the logical and economic extension of streets, utility easements, drainageways, and public areas into such parcels and adjacent tracts.

4.7. **Re-subdivision**
The re-subdivision of all or part of land covered by an existing plan, shall be governed by these regulations. Such re-subdivision shall show clearly that areas or areas which are being replatted and shall show the file number of all previous plans of these same areas with dates of filing.

4.8. **Blocks**
In general, block lengths shall not be less than 300 feet nor more than 2000 feet.

4.9. **Access and Maintenance Easements**
The deeds of all lots containing easements whose purpose is access to and/or maintenance of surface or subsurface features shall clearly state that no permanent plantings or structures including but not limited to buildings, driveways, and fences, shall be installed within such easements. No barriers to the maintenance of drainage structures are allowed.

4.9.1. **Layout**
Wherever possible, easements shall be continuous from block to block and their layout shall create as few irregularities as possible. The minimum easement width shall be 20 feet, except that tree easements, if necessary, shall not be less than 10 feet (see Section 4.9.4) and certain easements for pedestrian walkways shall not be less than 5 feet (see Section 4.10).
4.9.2. **Watercourses**
Streams or watercourses shall be provided with an emergency/maintenance access easement conforming substantially with the average high water mark of its course, but in no case less than 20 feet in width centered on its midpoint. Parallel streets or pedestrian ways and/or appropriate access may be required in connection therewith. The placement of streams or watercourses into open or covered culverts shall be kept to a minimum.

4.9.3. **Utilities**
Easements for utilities across lots shall generally follow lot lines or shall be centered on the rear or side lot lines and shall not be less than twenty (20) feet in width.

Easements for utilities along roads shall follow and be outside of the right-of-way lines and shall be not less than 5 feet in width.

4.9.4. **Trees**
Trees shall be located within the grass strip of the street right-of-way. However, in cases where the Planning Board determines that it is preferable to locate them outside the right-of-way, tree easements shall follow and be outside of the right-of-way lines and shall be 10 feet in width. Trees shall be planted at 40 foot or lesser intervals on both sides of all streets. The applicant shall show the location and species of trees on the subdivision plan at the time of submittal.

(See also Section 5.9.)

4.10. **Pedestrian Ways/Walkways**
Pedestrian ways or foot paths shall be required to provide convenient circulation or access to schools, playgrounds, shopping, churches, transportation, parks, conservation areas and/or other facilities. If not within a street right-of-way, such ways shall consist of an easement of at least 20 feet wide, except that walkways shall consist of an easement of at least 5 feet wide.

Walkways shall be required on the applicant’s property along the entire frontage (from sideline to sideline) of all existing public ways which immediately abut the proposed subdivision as well as all proposed public ways for the purpose of assuring safe and adequate pedestrian access to, from and within the subdivision.

To facilitate review of the proposed plan by the appropriate authorities, the applicant shall stake the sideline of the proposed walkways along existing roadways at fifty foot intervals.

See also Section 5.2.10. for construction details.

4.11. **Open Space, Parks, and Playgrounds**
The Planning Board may require that a subdivision plan show a park or parks suitably located to serve the future residents of the subdivision for playground or recreation purposes or for providing light and air and not unreasonable in area in relation to the area of the land being subdivided and the prospective uses of
such land.

4.11.1. If such a park or parks is required, the subdivision plan shall include an appropriate endorsement requiring that no building may be erected on such site for three years without the approval of the Planning Board.

4.11.2. Any open space park or playground shall provide at least fifty feet of continuous frontage on a street, and pedestrian ways will normally be required to provide access from each of the surrounding streets, if any, to which the open space, park or playground has no frontage. Further, such parks and/or playgrounds shall be required to have maintenance provided for by covenants and agreements acceptable to the Board, until public acquisition by the community.

4.11.3. Land designated for park or playground purposes shall not include wetlands, ledge, or other lands unsuitable for recreation purposes.

4.12. Protection of Natural Features
Due regard shall be shown for all natural features such as large trees, watercourses, scenic points, historic spots and similar community assets which, if preserved, will add attractiveness and value to the subdivision.

4.12.1. Prior to the removal of any trees over four (4) inches in diameter in the right of way and within any tree easement and prior to grading, the developer shall mark all trees proposed for removal and the developer shall plot these marked trees on the plan. All trees except those approved for removal by the Planning Board shall be protected against construction damage. The grade below these trees shall be retained as necessary in order to ensure their preservation, including the use of tree wells, where necessary.

4.13. Water System
All buildings in a subdivision or other structures therein intended for human occupancy and all fire hydrants shall be connected to and served by the Town water supply system, as available or as extended at the expense of the developer of the subdivision.

The Definitive Plans shall indicate the existing and proposed locations of all water lines including their type, size, and class. All proposed valves and fittings shall be located on the plans and identified by its station. Proposed valves shall be located so that they line up with the edge of traveled way, gutter line, or street line. The existing nearest hydrant(s) to the development shall be located on the plans. Hydrants shall be located at all low points, and hydrants or manual air release valves shall be located at all high points of the proposed water mains.
4.14. Streets

4.14.1. Arrangement
The proposed streets shall be considered in their relation to existing and planned streets, topographic and geologic conditions, public convenience and safety, and for safe vehicular travel. Due consideration shall also be given by the developer to the attractiveness of the street layout in order to obtain the maximum amenity of the subdivision and to avoid excessive cut and fills. Long straight roadway sections should be avoided. The maximum length of a straight segment on a residential or secondary street shall be 500 feet. In addition, the proposed streets shall provide for appropriate continuation and connection of existing primary and secondary streets, and the extension of primary and secondary streets onto adjoining land.

4.14.2. Access To Primary Streets and Through Streets
Intersections of secondary and residential streets with primary streets will not be allowed with offsets between intersections of less than 350 feet whether on the same or opposite sides of the primary or through street.

Subdivisions, and extensions to subdivisions, including or capable of including 25 lots or more shall have at least two points of access to an existing through street separated by a minimum distance of 350 feet or shall have two separate passable access routes via existing primary street(s) to an existing through street where the points of access are.

4.14.3. Reconstruction of Adjacent Public Ways
In cases where the development of a subdivision may cause congestion or a danger to pedestrian or vehicular traffic on the adjacent public ways, remedial measures satisfactory to the Planning Board may be required. Such measures may include, but are not limited to, the addition of alternate access roads or reconstruction of the adjacent public ways.

4.14.4. Street Jogs
Street jogs (i.e., the continuation of a street through an intersection where the centerline of the paved surface is not aligned on both sides of the intersection) are prohibited.

4.14.5. Reverse Curves
Reverse curves on streets may be separated by a straight section of road of at least 150 feet in length if a street has a design speed of 30 m.p.h. or less. This can be addressed on a case-by-case basis during the plan review process to insure that public safety is not impacted.

On all classifications of streets, the characteristics as shown in the chart on the next page entitled, "Right-of-way Widths and Alignments Based on Design Speed", shall be the minimum acceptable (see also Figures 31 to 34 in Volume II of Norfolk Rules and Regulations)
### Right of Way Widths and Alignments Based on Design Speed

<table>
<thead>
<tr>
<th>Street Classification</th>
<th>Residential</th>
<th>Secondary</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design Speed (MPH)</td>
<td>20</td>
<td>25</td>
<td>30</td>
</tr>
<tr>
<td>Minimum Curb to Curb (Feet)</td>
<td>24</td>
<td>26</td>
<td>28</td>
</tr>
<tr>
<td>Minimum Right-of-Way (Feet)</td>
<td>50</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td>Minimum Curb Radius at Intersections (Feet) [1]</td>
<td>20</td>
<td>20</td>
<td>25</td>
</tr>
<tr>
<td>Minimum Traveled Way Centerline Radius (Feet)</td>
<td>90</td>
<td>170</td>
<td>280</td>
</tr>
<tr>
<td>No Superelevation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Traveled Way Coincident with Centerline</td>
<td>Not Required</td>
<td>Not Required</td>
<td>Required</td>
</tr>
<tr>
<td>Stopping Sight Distance (Feet) [2]</td>
<td>125</td>
<td>150</td>
<td>200</td>
</tr>
<tr>
<td>Intersection Sight Distance (Feet) [2]</td>
<td>200</td>
<td>340</td>
<td>400</td>
</tr>
<tr>
<td>Minimum Intersection Spacing Centerline to Centerline (Feet)</td>
<td>350</td>
<td>350</td>
<td>350</td>
</tr>
<tr>
<td>Two Way Traffic Volume ADT/DHV</td>
<td>&lt;400/&lt;200</td>
<td>&lt;800/&lt;300</td>
<td>&lt;800/&lt;400</td>
</tr>
<tr>
<td>Minimum Grade (Percent)</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Maximum Grade (Percent)</td>
<td>10</td>
<td>8</td>
<td>6</td>
</tr>
</tbody>
</table>

### Sight Distance Summary

<table>
<thead>
<tr>
<th>85th Percentile Speed (MPH)</th>
<th>Stopping Sight Distance (Feet)</th>
<th>Corner Sight Distance (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>35</td>
<td>225-250</td>
<td>390</td>
</tr>
<tr>
<td>40</td>
<td>275-325</td>
<td>445</td>
</tr>
<tr>
<td>45</td>
<td>325-400</td>
<td>500</td>
</tr>
<tr>
<td>50</td>
<td>400-475</td>
<td>555</td>
</tr>
<tr>
<td>55</td>
<td>450-550</td>
<td>610</td>
</tr>
<tr>
<td>60</td>
<td>525-600</td>
<td>665</td>
</tr>
<tr>
<td>65</td>
<td>650-725</td>
<td>720</td>
</tr>
<tr>
<td>70</td>
<td>625-800</td>
<td>775</td>
</tr>
</tbody>
</table>

[1] The intersection of roads with differing design speeds shall be designed in accordance with Section 4.14.7.2.

[2] For design purposes, sight distances shall be based on the 85th percentile speed, which is the speed below which 85 percent of the vehicles are traveling.

[3] At intersections where the gradient exceeds 3 percent, a leveling area of not less than 100 feet is required. Refer to subsection 4.14.8.3.

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4.14.7. Intersections

4.14.7.1. Rights-of-way shall be laid out so as to intersect as nearly as possible at right angles. No right-of-way shall intersect any other right-of-way at less than 75
degrees. Intersections of existing and proposed streets will not be allowed at intervals of less than 350 feet between centerlines.

4.14.7.2 Property lines at right-of-way intersections shall provide for a curb radius on the roadway as indicated in subsection 4.14.6, "Right-of-way Widths and Alignments -- Design Speed". The curb radius at the intersection shall be as required by Section 4.14.6 and shall be sufficient to accommodate "WB-50" vehicle turning movements. In instances where streets of differing design speeds intersect, the smaller curb radius requirement shall be required.

4.14.7.3 In instances where there are State roadways involved, the curb radius required by State regulations shall be provided. The State-required radius is not required to be paved, but rather, the difference in area between the State and local radii requirements shall be provided in the form of granite rubble block pavement, as indicated in Figure 35 of Volume II of the Norfolk Rules and Regulations.

4.14.7.4 Both the horizontal and vertical sight distance and stopping sight distance at intersecting roadways within a subdivision and at subdivision roadways intersecting with existing roadways shall be provided as indicated in subsection 4.14.6, "Right-of-way Widths and Alignments -- Design Speed".

4.14.7.5 Horizontal and vertical stopping sight distances in all directions at existing and proposed intersections shall be noted on the plans.

4.14.8 Vertical Alignment

4.14.8.1 All changes in grade shall be connected by vertical curves of sufficient length to afford adequate sight distances as indicated in the following chart:

<table>
<thead>
<tr>
<th>Design Speed (mph)</th>
<th>Stopping Sight Distance (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>125</td>
</tr>
<tr>
<td>25</td>
<td>150</td>
</tr>
<tr>
<td>30</td>
<td>200</td>
</tr>
</tbody>
</table>
4.14.8.2. For crest vertical curves, the length in feet shall be computed from the following formulas:

When \( S \) is less than \( L \), \( L = \frac{AS2}{\text{OVER} \{100 \left(\text{SQRT} \ (2h \ \text{SUB} \ 1) \ + \ \text{SQRT} \ (2h \ \text{SUB} \ 2) \} \ \text{SUP} \ 2\}} \)

When \( S \) is greater than \( L \), \( L = \frac{2S}{\text{OVER} \{200 \ (\text{SQRT} \ h \ \text{SUB} \ 1) \ + \ \text{SQRT} \ h \ \text{SUB} \ 2 \} \ \text{SUP} \ 2\} \)

where: \( L \) = length of vertical curvature
\( S \) = sight distance
\( A \) = algebraic difference in grades, percent.
\( h_1 \) = 3.50 feet (eye of driver)
\( h_2 \) = 2.0 feet (height of object)

For sag vertical curves, the length in feet shall be computed from the following formulas:

When \( S \) is less than \( L \), \( L = \frac{AS \ \text{SUP} \ 2}{\text{OVER} \{400 \ + \ 3.5S\}} \)

When \( S \) is greater than \( L \), \( L = \frac{2S}{\text{OVER} \{400 \ + \ 3.5S\} \ \text{SUP} \ A \}

where: \( L \) = length of vertical curvature
\( S \) = sight distance
\( A \) = algebraic difference in grades, percent.

Minimum length of a sag or crest vertical curve shall be 100 feet. All vertical curves shall show the following on the profiles:

P.V.I. Station and elevation
High point or low point station and elevation

4.14.8.3. The grade of any proposed street meeting another existing or proposed street within or adjacent to the subdivision shall not exceed two (2) percent for a distance of not less than one hundred (100) feet, measured from the nearest edge of right-of-way of the other street.

4.14.9. Cul de sacs

4.14.9.1. The paved portion of cul de sacs, whether temporary or permanent, shall not be less than 250 feet in length and not exceed 500 feet in length measured from the intersection (centerline) of the nearest intersecting through street to the farthest end of the paved turnaround, and shall not provide access to more than seven (7) lots.
4.14.9.2. Cul de sacs, whether permanent or temporary, shall provide a turn around at the closed end(s) having a property line diameter of 120 feet; a radius at the outer edge of traveled way of 47 feet, and a landscaped island in the center having a maximum radius of 15 feet. Islands shall be designed to allow for proper emergency vehicle and snowplow access. A "Not a Through Street" sign shall be provided at the entrance to a cul-de-sac and its location shown on the subdivision plan.

In the case of a temporary turn around, the plan shall show an easement(s) to accommodate the specifications of this subsection. The frontage of lots abutting a temporary turnaround shall be measured along the permanent street right of way and not the "bulb" of the cul de sac. See detail (Figure 43). Any easement in any turnaround shown on a plan approved under the subdivision control law other than an easement appurtenant to a lot abutting the turnaround, shall terminate following (a) the approval and recording of a plan showing extension of the roadway, and (b) the recording of a certificate by the Planning Board of the construction of such extension.


All cul de sacs, except those determined by the Planning Board to be permanent in nature, shall include a right-of-way running from the closed end(s) of the cul de sac to the terminus points as described below for purposes of providing future through access. The width of said right-of-way shall be equal to the right-of-way width of the cul de sac street. Said right of way shall be laid out and construction plans included as part of the subdivision plan. The land in the right of way shall be turned over to the Town of Norfolk as a gift of land prior to release of any lot in the subdivision.

The terminus point of the right-of-way shall be both to any adjacent Town-owned conservation land, and as follows:

a. first, to any street which abuts the property line of the parcel being subdivided, other than the street which forms the intersection with the paved portion of the cul de sac;

b. second, if (a) is not applicable, to any right of way or street easement of at least 20 feet right of way width which abuts the property line of the parcel being subdivided;

c. third, if (a) and (b) are not applicable, to the point on the property line of the parcel being subdivided which is closest to the closed end of any cul de sac existing on any adjacent parcel;

d. fourth, if (a), (b) and (c) are not applicable, to the point on the property line of the parcel being subdivided which is closest to any existing through street on any adjacent parcel, other than the street which forms the intersection with the parcel portion of the cul de sac;

e. fifth, if (a), (b), (c), and (d) are not applicable, to the point on the property line of the parcel being subdivided which is closest to any adjacent "landlocked" (i.e.: without adequate frontage) parcel; and
f. sixth, if (a), (b), (c), (d) and (e) are not applicable, to the point on the property line of the parcel being subdivided which is closest to the largest adjacent buildable parcel of land.

For purposes of this regulation, references to the point "closest" shall exclude wetlands. The easement created by this section shall, to the extent practicable, be laid out to exclude lakes, ponds, wetlands, woodlands, water courses and steep terrain.

4.14.9.4. An easement for access and maintenance shall also be provided from all cul-de-sacs to any adjacent Town-owned conservation land. Such easements shall have a minimum width of 20 feet.

4.14.9.5. The surface slope of the traveled way within the turn-a-round required under Section 4.14.9.2 shall not exceed 4 percent

4.14.9.6. Cul de sac Plantings
The applicant shall submit a landscape plan for the central portion of a cul de sac. The following are permitted:

- Trees
- Planting with ground cover and spreading mulch between plants for weed control;
- Planting perennial grass by either sod or seed;
- Planting ornamental shrubs of a type acceptable to the Board;
- Retaining existing vegetation with the approval of the Board;

The standards of the American Nurserymen Association and the specifications of the Associated Landscape Contractors of Massachusetts shall apply to landscaping subject to these regulations.

A half street is a portion of a proposed street running astride a common boundary line, said portion being within a subdivision under consideration. Half streets shall be prohibited.

4.14.11. Sight Distances at Intersections
Horizontal and vertical sight distances in all directions at intersections shall be noted on the plans. Sight distances at intersections shall be provided as indicated in subsection 4.14.6, "Right-of-way Widths and Alignment – Design Speed".

Stopping sight distance is the sum of two distances: the distance traversed by the vehicle from the instant the driver sights an object necessitating a stop to the instant the brakes are applied and the distance required to stop the vehicle from the instant brake application begins. For all stopping site distance calculations, the height of the driver's eye is considered to be 3.5 feet above the road surface and
the height of the object is considered to be 2.0 feet above the road surface in accordance with AASHTO policy. Stopping sight distances shall be provided as indicated in subsection 4.14.6, "Right-of-way Widths and Alignment – Design Speed."

4.15. **Slopes**

Excavated cuts shall have a maximum slope of three (3) horizontal to one (1) vertical (3:1), cut slopes greater than fifteen feet (15') in height shall be benched and approved by the Board.

4.16. **Driveways**

Driveway locations shall be shown on the plan. All driveways shall be designed and constructed starting from the gutter line. The slope of the driveway shall be upwards toward the sidewalk to be constructed or to a point allowing for a sidewalk to be constructed in the future. Sloping driveways downward towards the right of way line is prohibited. A detail and cross section of the proposed driveway shall be indicated on the plans. See driveway detail in "Town of Norfolk Regulations for Street Excavations" as most recently amended.

4.17. **Street Cross Sections**

4.17.1. Cross sections shall be drawn for all proposed roadways and existing roadways to be reconstructed. They shall be drawn at fifty (50) foot stations and at all proposed culverts at a scale of eight (8) feet to the inch horizontally and vertically.

4.17.2. Sufficient space is to be provided between cross sections to allow the proposed roadway template to be drawn without overlapping the adjoining sections.

4.17.3. The following shall be shown on the sections:

- Edges of existing roads, drives, walks, bordering vegetated wetlands, lawns, etc.
- Existing walls, poles, hydrants, mail boxes, etc.
- All existing trees 12" and over noting the diameter, species of tree, station and offset.
- Elevation, station, and description of wells, cesspools, and on site septic systems, and a description and elevation of sills of buildings.
- Existing culverts shall be shown as long dashed lines.
- Water elevations shall be shown as a dashed line with elevation and a date taken.
- Approximate elevation of the top of rock for above and below existing grade.
- The profile grade is to be noted on each template.
- The template shall consist of the finished grade and the proposed sub-grade line baseline, and right of way lines
- Stations shall be located below the cross section and increase going up the plan sheet
- Guide vertical elevations and horizontal distances in both directions shall be shown on each cross section.
- A summary table shall be shown with the cross sections showing the cubic yards between the stations for cut, fill, muck excavation, and rock excavation, and gravel borrow. A total for each category shall
be shown along with the final amount of cubic yards of earth to be removed from the site or gravel borrow to be brought into the site.

- Limits of rock and muck excavation.

- Planimeter readings are to be shown to the right of each template using the abbreviations - C=Cut, F=Fill, M=Muck Excavation, R=Rock Excavation, GB=Gravel Borrow.

4.18. Walkways on Existing Roadways
Walkways shall be required on the applicant's property along all existing public ways which immediately abut the proposed subdivision for the purpose of assuring safe and adequate pedestrian access to and from the subdivision. Sidewalks shall not be interrupted by steps or abrupt changes in level greater than 1/2-inch.

In general, walkways on existing roadway (layouts) shall be constructed with minimum change to the natural rural appearance of the street. Walkways shall follow the natural contours of the land and preserve both trees and shrubs to the extent possible to comply with the guidelines in Section 5.2.10.

To facilitate review of the proposed plan by the appropriate authorities, the applicant shall stake the sideline of the proposed walkway at fifty foot intervals.

4.18.1. Width
The width of the walkway shall be 5 feet minimum. Where such a walk cannot be constructed respecting the existing contours and natural features of the land such as trees, shrubs, stone walls, etc., a minimum width of three feet shall be allowed with prior written approval of the Planning Board.

4.19. Stormwater Management System

4.19.1. General
The stormwater management system shall collect, convey, treat, and recharge stormwater in a manner which will ensure protection of property, preservation of water resources, minimization of environmental impacts, and protection of public and environmental health by providing adequate protection against pollution, flooding situation and other problems caused by poor drainage. The stormwater management system shall comply with the following:

- Adhere to standard engineering practice.
- Conform to the Stormwater Management Standards of 4.19.3.
- Conform to the current edition of the Massachusetts Department of Environmental Protection's "Massachusetts Stormwater Handbook."
- Maintain pre-development drainage patterns and pre-development hydrological conditions in groundwater and surface waters as nearly as possible.
- Include a strategy for source control and Best Management Practices (BMPs).
- Recharge runoff from pervious surfaces.
- Recharge roof water in separate facilities.
- Provide treatment train for the water quality volume that reduces the contaminant burden in stormwater to the maximum extent possible (MEP) using Best Management Practices (BMPs).
- Maintain or enhance surface water quality and groundwater quality.
- Protect or enhance resource areas subject to regulation under the "Massachusetts Wetlands Protection Act (MGL Ch 131 §40)"
- Utilize Low Impact Design where practicable.
- Collect and convey surface water for applicable design storms.
- Avoid any increase in the peak rate or volume of stormwater discharge at the property boundary for each storm event specified hereinafter.
- Implement an Operation and Maintenance (O&M) plan that complies with DEP guidelines and ensures proper function of the stormwater management system and provides an acceptable future maintenance burden.
- Provide a sufficient level of health and environmental protection during construction.

Refer to the construction requirements, standards and requirements of Section 5.3.

4.19.2. Submissions

Design of the Stormwater Management System shall be prepared by a Massachusetts registered professional engineer and all submitted plans, calculations, and reports shall bear the engineer’s signature and seal. Deep hole observations shall be conducted under the direction of a Massachusetts Licensed Soil Evaluator. Submissions shall comply with the minimum content requirements as set forth hereinafter:

- Plans, profiles, and sections conforming to the requirements of these rules and regulations showing the stormwater management system and existing and proposed buildings, surface grades, surface treatments, and utilities.

- A stormwater management report including calculations and a detailed narrative describing pre-development and postdevelopment conditions, the design and function of the stormwater management system, and the procedures and methods used for analysis.

- Pre-development and post-development watershed plans showing existing and proposed buildings, surface grades, surface
treatments, catchbasins and culverts, watercourses, watershed and catchment boundaries, flow lines, Natural Resources Conservation Service (NRCS) soil boundaries and Hydrologic Soil Groups.

- Pipe flow calculations based upon the "Rational Formula" providing pipe diameter, inverts, slope, velocity (flowing full), length, capacity, design flow, and v/c ratio.

- Stormwater basin design calculations shall be provided based upon TR-20.

- Logs of soil borings or deep observation holes.

- Soil permeability test data.

- Groundwater monitoring data.

- Plans showing the limits of all "Resource Areas" subject to regulation under the WPA based upon a field survey of points established pursuant to an Order of Resource Area Delineation or an Order of Conditions issued within two years of the date of submission.

- An Operation and Maintenance Plan.

- Organization documents for the party responsible for operation and maintenance of the stormwater management system which shall include details of the mechanism used to provide funding in perpetuity.

4.19.3. Standards

4.19.3.1. The Stormwater Management System shall comply with the standards set forth hereinafter (and more fully defined in the current version of the Massachusetts Stormwater Handbook).

Standard 1. No new stormwater conveyances (e.g. outfalls) may discharge untreated stormwater directly to or cause erosion in wetlands or waters of the Town of Norfolk.

Standard 2. Stormwater management systems shall be designed so that post development peak discharge rates do not exceed pre-development peak discharge rates.

Standard 3. Loss of annual recharge to ground water shall be eliminated or minimized through the use of infiltration measures including environmentally sensitive site design, low impact development techniques, stormwater best management practices and good operation and maintenance. At a minimum, the annual recharge from the post-development site shall approximate the
annual recharge from the pre-development conditions based on soil type. This Standard is met when the stormwater management system is designed to infiltrate the required recharge volume as determined in accordance with the Massachusetts Stormwater Handbook.

Standard 4. Stormwater management systems shall be designed to remove 80% of the average annual post-construction load of Total Suspended Solids (TSS). This Standard is met when: a. Suitable practices for source control and pollution prevention are identified in a long-term pollution prevention plan and thereafter are implemented and maintained; b. Structural stormwater best management practices are sized to capture the required water quality volume determined in accordance with Massachusetts Stormwater Handbook; and c. Pretreatment is provided in accordance with the Massachusetts Stormwater Handbook.

Standard 5. For land uses with higher potential pollutant loads, source control and pollution prevention shall be implemented in accordance with the Massachusetts Stormwater Handbook to eliminate or reduce the discharge of stormwater runoff from such land uses to the maximum extent practicable. If through source control and/or pollution prevention, all land uses with higher potential pollutant loads cannot be completely protected from exposure to rain, snow, snow melt and stormwater runoff, the proponent shall use the specific structural stormwater BMPs as provided in the Massachusetts Stormwater Handbook. Stormwater discharges from land uses with higher potential pollutant loads shall also comply with the requirements of the Massachusetts Clean Waters Act, M.G.L. c. 21, §§ 26 through 53, and the regulations promulgated thereunder at 314 CMR 3.00, 314 CMR 4.00 and 314 CMR 5.00.

Standard 6. Stormwater discharges within the Zone II or Interim Wellhead Protection Area of a public water supply and stormwater discharges near or to any other critical area require the use of the specific source control and pollution prevention measures and the specific structural stormwater best management practices determined by the Department to be suitable for managing discharges to such area as provided in the Massachusetts Stormwater Handbook. A discharge is near a critical area, if there is a strong likelihood of a significant impact occurring to said area, taking into account site-specific factors. Stormwater discharges to Outstanding Resource Waters and Special Resource Waters shall be removed and set back from the receiving water or wetland and receive the highest and best practical method of treatment. A “storm water discharge” as defined in 314 CMR 3.04(2)(a)1. or (b) to an Outstanding Resource Water or Special Resource Water shall comply with 314 CMR 3.00 and 314 CMR 4.00. Stormwater discharges to a Zone I or Zone A are prohibited, unless essential to the operation of the public water supply.

Standard 7. A redevelopment project is required to meet the following Stormwater Management Standards only to the maximum extent practicable: Standard 2, Standard 3, and the pretreatment and structural stormwater best management practice requirements of Standards 4, 5 and 6. Existing stormwater discharges shall comply with Standard 1 only to the maximum extent practicable. A redevelopment project shall also comply with all other requirements of the Stormwater Management Standards and improve existing conditions.
Standard 8. A plan to control construction related impacts including erosion, sedimentation and other pollutant sources during construction and land disturbance activities (construction period erosion, sedimentation and pollution prevention plan) shall be developed and implemented.

Standard 9. A long-term operation and maintenance plan shall be developed and implemented to ensure that the stormwater management system functions as designed.

Standard 10. All illicit discharges to the stormwater management system are prohibited.

4.19.4. **Geotechnical Testing**

4.19.4.1. Soil borings logs shall be provided to classify soils within proposed surface stormwater basins and subsurface absorption systems and throughout the Drainage Study Area. Logs of deep observation holes shall be provided within surface stormwater basins and subsurface absorption systems a minimum of one deep observation hole log shall be provided for each 5000 sq. ft. of basin area or a minimum of two soil logs per basin whichever is greater. One boring shall extend to impervious strata or to refusal. The other boring shall extend to the elevation of the design bottom elevation of the basin and shall be used to perform a borehole permeability test. Additional soil boring or deep observation hole logs shall be provided to classify soils throughout the Drainage Study Area, particularly in locations where available National Resource Conservation Service mapping is indeterminate or classifies soils as Udorthents.

4.19.4.2. In-situ field bore hole permeability test data shall be provided within surface stormwater basins and subsurface absorption systems a minimum of one permeability test shall be provided for each location. For larger surface stormwater basins and subsurface absorption systems additional permeability tests may be required as determined by the Board. Permeability testing shall be witnessed by the Board of Health Agent or the Planning Board Agent. If permeability testing is desired to be performed in soils of low permeability, laboratory tests for hydraulic conductivity shall be performed on undisturbed samples by the Falling Head Permeability Test using flexible membrane triaxial test cells with back pressure (US Army Corps of Engineers Engineering Manual EM 1110-2-1906, Appendix VII).

4.19.4.3. A minimum of one monitoring well shall be installed within each stormwater basin. Monitoring wells shall extend to a depth of 10 feet below existing grade or 4 feet below the design elevation of the bottom of the stormwater basin whichever is deeper.

The elevation of groundwater shall be recorded by a Massachusetts Licensed Soil Evaluator, Professional Engineer, or Professional Land Surveyor once in each of four months. When observations are taken during the months of May through December, the design groundwater elevation shall be adjusted to reflect spring high groundwater conditions using the Froumpte Method.
4.19.5. Hydrologic Analysis

4.19.5.1. The Drainage Study Area shall encompass the project site and all tributary upgradient areas. The boundary of the Drainage Study Area and the analysis points shall be the same for the pre-development condition and the postdevelopment condition.

Pre-development and post-development plans of the drainage Study Area shall show existing and proposed buildings, paved areas, and surface treatment for all open areas. The plans shall show existing and proposed elevations based upon one foot contour intervals. The plans shall show existing and proposed catchbasins and culverts, watercourses, watershed and catchment boundaries, and flow lines. Natural Resources Conservation Service (NRCS) soil boundaries and Hydrologic Soil Groups.

Times of concentration shall be determined based upon distance, slopes, and surface materials. A minimum time of concentration to be used shall be 0.1 hours. 4.19.5.2. Pipe flow calculations shall be provided for the closed drain system based upon the "Rational Formula" as follows:

Rational Formula: \[ Q = CIA \]

where:

- \( Q \) = Peak rate of flow
- \( C \) = Coefficient of runoff
- \( i \) = Rainfall intensity in inches per hour
- \( A \) = Area of watershed in acres

A weighted coefficient of runoff "C" is to be determined for each incremented drainage area based on the following minimum values:

- Roofs and pavement: 0.90
- Lawns, flat (2% max.), sandy soil: 0.10
- Lawns, average (2% to 7%), sandy soil: 0.12
- Lawns, steep (>7%), sandy soil: 0.18
- Lawns, flat (2% max.), heavy soil: 0.15
- Lawns, average (2% to 7%), heavy soil: 0.20
- Lawns, steep (>7%), heavy soil: 0.30
Woodland                          0.20
Wetlands, ponds, basins           0.90

Rainfall Intensity

4.19.5.3. Inlets shall provide capacity to accommodate the design storm. Spread shall not encroach on travel lanes of streets or the top of curbs or berms.

4.19.5.4. Stormwater basin analysis shall be based upon Technical Release 20 (TR-20) as follows:

Rainfall

2-year frequency storm event – 3.2 inches
10-year frequency storm event – 4.8 inches
25-year frequency storm event – 5.5 inches
50-year frequency storm event – 6.2 inches
100-year frequency storm event – 6.8 inches

Curve Number (CN)

Weighted curve numbers shall be calculated using the following values. For cover types not stated, refer to TR-20.

<table>
<thead>
<tr>
<th>Hydrologic soils group</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lawns poor</td>
<td>68</td>
<td>79</td>
<td>86</td>
<td>89</td>
</tr>
<tr>
<td>Lawns fair</td>
<td>49</td>
<td>69</td>
<td>79</td>
<td>84</td>
</tr>
<tr>
<td>Lawns good</td>
<td>39</td>
<td>61</td>
<td>74</td>
<td>80</td>
</tr>
<tr>
<td>Impervious areas, pavement, roots</td>
<td>98</td>
<td>98</td>
<td>98</td>
<td>98</td>
</tr>
<tr>
<td>Woods poor</td>
<td>45</td>
<td>66</td>
<td>77</td>
<td>83</td>
</tr>
<tr>
<td>Woods fair</td>
<td>36</td>
<td>60</td>
<td>73</td>
<td>79</td>
</tr>
<tr>
<td>Woods good</td>
<td>30</td>
<td>55</td>
<td>70</td>
<td>77</td>
</tr>
<tr>
<td>Wetlands, ponds, basins</td>
<td>8</td>
<td>98</td>
<td>98</td>
<td>8</td>
</tr>
</tbody>
</table>

Curve numbers for conditions not included in the above shall be obtained from TR-20 documentation.

4-18
4.19.6. **Design Storms**

4.19.6.1. Stormwater runoff shall be analyzed for the 2-year frequency storm event, 10-year frequency storm event, 25-year frequency storm event, 50-year frequency storm event, and 100-year frequency storm event.

4.19.6.2. The design storm for all components of the closed stormwater collection system including catchbasin grates and other inlets, drainlines, and the bypass capacity of separator structures is the 25-year frequency storm event.

4.19.6.3. The design storm for cross culverts and devices protecting occupied buildings is the 100-year frequency storm event.

4.19.6.4. The design storm for surface stormwater basins and subsurface absorption systems is the 100-year frequency storm event. The runoff for design of surfaces providing sheet flow, swales, and drainage ditches that convey runoff to surface stormwater basins and subsurface absorption systems is the excess runoff resulting from storm events greater than the 25-year frequency storm event but less than the 100-year frequency storm event.

4.19.6.5. The required recharge volume is the volume resulting from multiplying the factors set forth below times the total post-development impervious surface within the project area for each National Resource Conservation Service Hydrologic Soil Group as set forth hereinafter.

<table>
<thead>
<tr>
<th>Hydrologic Soil Group</th>
<th>Required Recharge</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSG A Soil</td>
<td>0.60 inches of runoff</td>
</tr>
<tr>
<td>HSG B Soil</td>
<td>0.35 inches of runoff</td>
</tr>
<tr>
<td>HSG C Soil</td>
<td>0.25 inches of runoff</td>
</tr>
<tr>
<td>HSG D Soil</td>
<td>0.10 inches of runoff</td>
</tr>
</tbody>
</table>

4.19.6.6. The water quality volume to be treated is 1.0 inches of runoff multiplied by the total post-development impervious surface within the project area for discharges to critical areas and 0.5 inches of runoff multiplied by the total post-development impervious surface within the project area for discharges to all other areas. Discharges to critical areas include systems accommodating runoff from land uses with higher potential pollutant lands, discharges to areas with infiltration rates greater than 2.4 inches per hour, and discharges to a designated Zone II.

4.19.7. **Design Criteria**

4.19.7.1. The closed stormwater collection system shall accommodate the design storm without surcharging and shall provide a free discharge to stormwater basins above the maximum the 100-year storm elevation. All components of the system
shall accommodate the design storm including catchbasin grates and other inlets, drainlines, and the bypass components of water quality structures.

Cross culverts and devices protecting occupied buildings shall accommodate the design storm event without surcharging.

Surface stormwater basins and subsurface absorption systems shall have the volume to accommodate runoff providing for no increase in the peak rate of discharge or the volume of discharge at the project boundary for the 2-year frequency storm event, 10-year frequency storm event, 25-year frequency storm event, 50-year frequency storm event, and 100-year frequency storm event. Base flow from underdrains shall be included in the design flow. Inflow volume shall not be decreased based upon runoff captured by roofwater recharge systems.

Surfaces providing sheet flow, swales, and drainage ditches conveying excess runoff to surface stormwater basins and subsurface absorption systems shall accommodate runoff from storm events exceeding the capacity of the closed stormwater collection system but less than the 100-year frequency storm event.

Recharge facilities accommodating runoff from paved surfaces shall be provided over broad areas of the site and shall recharge the design storm within 72 hours following cessation of precipitation. Separate roofwater recharge facilities shall be provided in proximity to the building served to promote recharge over broad areas of the site and shall recharge the design storm within 72 hours following cessation of precipitation. Recharge facilities accommodating runoff from paved surfaces in combination with recharge facilities accommodating runoff from building roofs shall accommodate the required recharge volume.

Water quality components shall be provided to remove 80 percent of the Total Suspended Solids (TSS) for the water quality volume. Water quality components include deep catchbasin sumps, water quality structures, and sediment forebays.

Water quality components shall abate phosphorous loadings in stormwater in accordance with the Massachusetts Stormwater Handbook.

Inflows and outflows across the project boundary shall be maintained. There shall be no concentration of flow at any point on the project boundary unless a downgradient easement is provided extending to an existing watercourse or wetland.

There shall be no new point source discharge within 100 feet of a bordering vegetated wetland. Surface stormwater basins and subsurface absorption systems shall not be located within bordering vegetated wetlands. Stormwater basin discharges shall be above any 100 year jurisdictional flood elevation. Surface stormwater basins and subsurface absorption systems shall not be located within floodplains unless compensatory storage is provided.
4.19.7.2. The closed stormwater collection system shall consist of precast concrete drain manholes, precast concrete catchbasins, precast concrete water quality structures connected by straight segments of drainline.

Cross culverts shall consist of straight segments of Class IV reinforced concrete pipe with gasketed joints.

The velocity of drainlines shall be determined based upon Manning's equation:

\[ 1.486 \, V = n \, R^{2/3} \, S^{1/2} \]

where:

- \( V \) is the cross-sectional average velocity (ft/s)
- \( n \) is the Manning coefficient of roughness (independent of units)
- \( R \) is the hydraulic radius (feet)
- \( S \) is the slope of the drainline (feet/foot)

The capacity of drainlines shall be based upon the discharge formula:

\[ Q = AV \]

where:

- \( Q \) is the volume of flow in cubic feet per second
- \( A \) is the cross section area of the pipe
- \( V \) is the cross-sectional average velocity (ft/s)

The coefficient of roughness (Manning's \( n \)) for reinforced concrete pipe shall be 0.013 and for smooth interior wall HDPE pipe shall be 0.012.

The minimum velocity (flowing full) for all drainlines shall be 2.5 feet per second and the maximum velocity (flowing full) shall be 12.0 feet per second flowing full.

Drainlines shall be Class IV Reinforced Concrete Pipe with o-ring seal joints conforming to ASTM C443. Corrugated polyethylene pipe with smooth interior walls conforming to AASHTO M294, Type S with o-ring seal joints may be used outside streets for systems that will remain forever private. The minimum pipe size shall be 12 inches in diameter. In instances where pipe diameter increases, the change shall be provided at a manhole and the crown of the inflow pipe shall match the crown of the outflow pipe.

Catchbasins shall be 5 foot inside diameter and shall have a minimum 4 foot deep sump. Catchbasins shall be provided at intervals not to exceed three hundred (300) feet on center.

Separator structures having capacity to treat the water quality volume shall be
provided upgradient of all surface stormwater basins and subsurface absorption systems and shall have a bypass capability for larger storms. Separator structures must accommodate cleaning with a clamshell bucket. Separator structures requiring use of a vacuum hose for cleaning shall not be used.

Pipe shall have the structural strength to accommodate depth of bury or surface loads. All drainage structures shall accommodate AASHTO SH20-44 loadings.

4.19.7.3.

Roofwater recharge systems, surface stormwater basins and subsurface absorption systems shall be located in areas of permeable soil where there is a minimum of 4 feet of naturally occurring permeable soil between the bottom of the separate roofwater recharge system, surface stormwater basin, or subsurface recharge system and impervious soils or bedrock. A minimum separation of 2 feet shall be provided between the bottom of the separate roofwater recharge system, surface stormwater basin, or subsurface recharge system and seasonal high groundwater.

Design infiltration rates for roofwater recharge systems, surface stormwater basins and subsurface absorption systems shall be either the value obtained from permeability tests of Section 4.19.4, or the values set forth in the following table, whichever is less.

Table 2-1 Infiltration Rates for Various Soil Textures

<table>
<thead>
<tr>
<th>Texture Class</th>
<th>NRCS Hydrologic Soils Group</th>
<th>Design Infiltration Rate (inches per hour)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand</td>
<td>A</td>
<td>8.27</td>
</tr>
<tr>
<td>Loamy Sand</td>
<td>A</td>
<td>2.41</td>
</tr>
<tr>
<td>Sandy Loam</td>
<td>B</td>
<td>1.02</td>
</tr>
<tr>
<td>Loam</td>
<td>B</td>
<td>0.27</td>
</tr>
<tr>
<td>Silt Loam</td>
<td>C</td>
<td>0.52</td>
</tr>
<tr>
<td>Sandy Clay Loam</td>
<td>C</td>
<td>0.17</td>
</tr>
<tr>
<td>Clay Loam</td>
<td>D</td>
<td>0.09</td>
</tr>
<tr>
<td>Silty Clay Loam</td>
<td>D</td>
<td>0.06</td>
</tr>
<tr>
<td>Sandy Clay</td>
<td>D</td>
<td>0.05</td>
</tr>
<tr>
<td>Silty Clay</td>
<td>D</td>
<td>0.04</td>
</tr>
<tr>
<td>Clay</td>
<td>D</td>
<td>0.02</td>
</tr>
</tbody>
</table>

4.19.7.4.

Separate roofwater recharge systems shall be provided having sufficient volume to accommodate 1 inch of runoff from roofs. Roofwater recharge systems shall be located in areas of permeable soil. Where roofwater recharge facilities are located within hydrologic soils group (HSG) D soils, drywells at the same elevation interconnected with equalizing pipes or linear systems of galleys shall be used.

4.19.7.5.

Surface stormwater basins

Surface stormwater basins including retention basins, detention basins, and
basins providing both retention and detention shall be designed with the following objectives to be considered: hydraulic function, safety, maintenance, aesthetics, and when required, water quality.

Surface stormwater basin(s) shall be designed for aesthetics as well as function by proving a naturalistic freeform layout and attractive plantings.

Surface stormwater basins may be designed as detention basins, retention basins, or combined detention/retention basins provided that the design requirement that there be no increase in the peak rate of stormwater discharge and no increase in the volume of stormwater discharge at the property line is achieved by the overall stormwater management system. All detention basins, retention basins, or combined detention/retention basins shall be located in areas of pervious soil and shall be designed to empty such that the required design volume is available within seventy-two (72) hours following the cessation of precipitation.

The design elevation of the bottom of the basins shall be set to provide a minimum 2 foot separation between the bottom of the basin and spring high groundwater. A minimum of 4 or more feet of naturally occurring permeable soil shall be provided between the bottom of the basin and impervious soil or bedrock.

Details of inlet and outlet control structures and the infiltration system at the bottom of the basin shall be provided.

One foot of freeboard shall be provided above the 100 year design elevation of the basin.

An emergency spillway above the 100 year design elevation of the basin shall be provided for all basins that provides an unencumbered hydraulic connection and directs excess flow in a manner that avoids damage to public and private property and wetland resource areas.

Stormwater basin side slopes shall have a maximum slope of a 3 horizontal to 1 vertical (3 to 1). The Board reserves the right to limit the depth of basins to the 25-year design water surface to 4 feet maximum. The Board reserves the right to require 42 inch high non-climbable fencing surrounding the basin for safety based upon the nature of on-site and neighboring land uses.

Basin embankments having a height of greater than four feet between the required freeboard elevation and finished grade exterior to the basin shall require geotechnical testing and an embankment design prepared by a Massachusetts Geotechnical Professional Engineer. Sections through such embankments shall be provided and shall show slopes, impervious cores, and surface armoring.

Infiltration systems within detention/retention basins are required in the bottom of basins. Frames and grates shall be placed six inches above the basin floor to allow sediment to settle.
Surface stormwater basins including surrounding maintenance access berms shall be provided on separate lots not part of any building lot. A 10 foot wide minimum access and maintenance easement shall extend from the public way the stormwater basin lot.

A vehicle accessible level berm for maintenance access shall be provided surrounding each surface retention/detention basin or underground leaching structure. The level berm shall extend for a minimum of 15 feet (or the width recommended in the current edition of the Massachusetts Stormwater Handbook if greater) beyond the required freeboard line on the side slope of surface retention/detention basins and 15 feet beyond the structure or distribution piping of underground leaching basins.

Security fencing or other effective measures shall be provided surrounding surface stormwater basins and subsurface absorption systems. Guardrails shall be provided for basins in proximity to vehicular areas.

To facilitate screening of the stormwater basin, a tree easement having a minimum width of 10 feet shall be provided around surface stormwater basins and subsurface absorption systems located adjacent to and outside the vehicle accessible level berm. Required plantings within the tree easement consist of evergreen trees planted at a maximum of 15 feet on-center in each row. Two rows are required that are staggered to enhance screening. A single row of evergreen shrubs having minimum height of 6 feet at maturity shall surround the trees. Trees shall be spruce or fir and have a minimum height of 8 feet in height at the time of planting.

The edge of surface stormwater basins shall be measured at the required freeboard elevation. Surface stormwater basins shall comply with minimum setbacks as follows:

- Property lines 25 feet
- Front setback 100 feet
- Slab on grade buildings 25 feet
- Building cellars or basements 100 feet
- Street intersections 200 feet

4.19.7.6. Subsurface Recharge Systems

Subsurface absorption systems shall be designed with the following objectives to be considered: hydraulic function, safety, and maintenance.

Subsurface absorption systems shall meet the design requirement that there be no increase in the peak rate of stormwater discharge and no increase in the volume of stormwater discharge at the property line. All subsurface absorption systems shall be located in areas of pervious soil and shall be designed to empty such that the required design volume is available within 72 hours following the cessation of precipitation.

The design elevation of the bottom of the system shall be set to provide a
minimum 2 foot separation between the bottom of the e basin and spring high groundwater. A minimum of 4 or more feet of naturally occurring permeable soil shall be provided between the bottom of the basin and impervious soil or bedrock.

An emergency overflow shall be provided for all systems that directs excess flow in a manner that avoids damage to public and private property and wetland resource areas.

Subsurface absorption systems shall consist of precast concrete structures capable of supporting HS20-44 loadings. HDPE recharge systems capable of supporting HS20-44 loadings may be used for systems that will remain forever private. Subsurface absorption systems shall be embedded in a minimum one foot thick layer of double washed ¾ to 1½ inch stone on the top and sides. The top and sides of the stone shall be surrounded by filter fabric.

The treatment train shall provide for 80 percent Total Suspended Solids removal prior to inflow into the subsurface absorption system.

Subsurface absorption systems serving land subdivisions shall be provided on separate lots not part of any building lot. A 10 foot wide minimum access and maintenance easement shall extend from the public way to the stormwater basin lot.

To facilitate maintenance, each structure shall be provided with a 24 inch diameter frame and cover adjusted to finished grade at the inlet and outlet. Additional access covers shall be provided such that no portion of any subsurface recharge systems shall be more than 40 feet from an access cover.

The edge of subsurface absorption systems shall be measured at the outer edge of washed stone or the outer wall of the recharge structure, which ever extends further outward. Subsurface absorption facilities shall comply with minimum setbacks as follows:

- Property lines 25 feet
- Slab on grade buildings 25 feet
- Building cellars or basements 100 feet

4.19.8. Mounding

A mounding analysis is required when the vertical separation from the bottom of an exfiltration system to seasonal high groundwater is less than four (4) feet and the recharge system is proposed to attenuate the peak discharge from a 10-year or higher 24-hour storm. The mounding analysis must demonstrate that a Required Recharge Volume is fully dewatered within 72. The mounding analysis must also show that the groundwater mound that forms under the recharge system will not break out above the land or increase the water elevation in a bordering vegetated wetlands, open water areas within the 72-hour evaluation period. A mounding analysis is also required when recharge is proposed at or adjacent to

4-25
a site classified as contaminated, was capped in place, or has an Activity and Use Limitation (AUL) that precludes inducing runoff to the groundwater, pursuant to MGL Chapter 21E and the Massachusetts Contingency Plan 310 CMR 40.000; or is a solid waste landfill pursuant to 310 CMR 19.000; or groundwater from the recharge location flows directly toward a solid waste landfill or 21E site. In this case, the mound analysis must determine whether infiltration of the Required Recharge Volume will cause or contribute to groundwater contamination. The Hantush1 or other equivalent method may be used to conduct the mound analysis; however, the Planning Board may require use of a numeric model for larger systems or where required to accurately model groundwater conditions.

4.19.9. Offsite Discharge

4.19.9.1. In instances where no lots can be developed within a subdivision because no naturally occurring soils are found within the project site which would allow 1 Hantush 1967 – See Reference for Standard 3 recharge of stormwater within 72 hours, the applicant may petition to allow offsite discharge of stormwater. The Planning Board may waive applicable requirements of Section 4.19 provided that after due consideration that waiver of strict compliance with the provisions of Section 4.19 is in the public interest.

4.19.9.2. Runoff may be conveyed to surface stormwater basins or subsurface absorption systems on contiguous properties that fully the offsite surface stormwater basins or subsurface absorption systems have sufficient capacity to attenuate the increase in peak rate and volume. The hydrologic analysis shall establish a design point at the outlet of the surface stormwater basins or subsurface absorption systems. Permanent easements shall be furnished encompassing all off-site stormwater management facilities and providing proper access for maintenance.

4.19.9.3. Runoff may be discharged to the municipal stormdrain system provided that the off-site connection conforms to the requirements set forth herein. Detention basins are provided on the project site having sufficient capacity to limit the post-development peak rate of stormwater discharge to the municipal system such that it is no greater pre-development peak rate of stormwater discharge to the municipal system. Any increase in the volume of stormwater runoff discharged to the municipal storm drain system will not cause erosion or increase flooding or ponding of water in a manner that would damage properties or wetland resource areas. All offsite components of the receiving municipal stormdrain system shall have sufficient excess capacity such that they can accommodate runoff from the project site plus all runoff from full build out of all properties in its existing service area for the 25-year frequency storm event without surcharging. The Board of Selectmen allow the connection and may a condition of allowing the connection impose a user fee to be paid by the applicant.
4.20 Uniform Street Numbering System

4.20.1 Purpose:

4.20.1.1 To establish a uniform system of numbering primary buildings.

4.20.1.2 To promote efficiency in locating primary buildings.

4.20.1.3 To provide more expedient emergency response.

4.20.1.4 To provide a consistent system to establish mailing addresses.

4.20.1.5 To identify the locations and names of all streets and roads in the Town of Norfolk.

4.20.2 Properties Affected:

4.20.2.1 All primary buildings within the boundaries of the Town of Norfolk shall hereafter be identified by reference to the uniform numbering system.

4.20.2.2 This bylaw shall not apply to the display of "date of origin" numbers for historic buildings, provided that they are displayed so as not to be confused with the assigned street numbers.

4.20.3 Numbering System:

The uniform numbering system has been developed for all primary buildings based on the following process:

4.20.3.1 For purposes of establishing street numbers, a street shall be considered any access way, whether private or public, which serves two or more primary buildings or building lots.

4.20.3.2 The starting point of each street is generally determined by the proximity of its starting point to a main Town road. The sequence of numbers advances as the street proceeds from its designated starting point.

4.20.3.3 All primary buildings on the left side of the street will have odd numbers.

4.20.3.4 All primary buildings on the right side of the street will have even numbers.
4.20.3.5 One odd and one even number will be assigned to each fifty (50) foot interval of road frontage. Possible exceptions to this rule include: (a) densely developed or subdivided areas where numbers will be assigned on basis of existing parcel configuration and/or development; and (b) in rural areas where the interval may be greater than fifty (50) feet as determined by the Planning Board or Agent.

4.20.3.6 If a primary building has several possible numbers due to extensive road frontage or frontage on more than one road, the assigned number will be based on where the driveway intersects with the street.

4.20.3.7 Unused numbers will be held for future use to ensure against the need for renumbering.

4.20.3.8 Duplexes, multi-family complexes, mobile home parks, shopping centers, malls, condominiums, and cottage colonies shall be assigned only one number to the primary entrance onto the street. Units shall be internally numbered according to a logical pattern and manner as approved by the Planning Board.

4.20.3.9 Corner lots shall be assigned the appropriate street number which corresponds to the street from which the driveway originates.

4.20.3.10 Street names and building numbers shall be approved by the Planning Board and other appropriate State and Local Agencies.

4.20.3.11 All primary buildings must display a numerical address as required by Article X, Section 29 of the Town of Norfolk Bylaws, as amended.

4.20.4 New Buildings and Subdivisions

4.20.4.1 Whenever a primary structure or occupied structure shall be erected or located in the Town of Norfolk, designated numbers shall be affixed upon said structure as provided by Article X, Section 29 of the Norfolk Bylaws and this section. Within ninety (90) days after commencement of the construction of a primary structure, the assigned street number shall be posted so as to be clearly visible from the street. Temporary numbers may be used until permanent numbers are posted consistent with this by-law. Temporary numbers shall be replaced as soon as practicable.
4.20.4.2 Every subdivision or site plan submitted to the Planning Board for final approval shall show a street or building number of each lot, unit or structure as applicable. These numbers shall be reviewed and approved by the Planning Board or Agent and shall be filed with the office of the Tax Assessor consistent with Article X, Section 29.F.

4.20.5 Penalty

4.20.5.1 Any property owner who fails to comply with any provision of this ordinance within sixty (60) days of notification shall be subject to a penalty as specified in Article X, Section 29.

4.20.5.2 Any property owner who affixes upon a structure any number other than that assigned to, or pursuant to, this ordinance shall be subject to a penalty of two hundred fifty dollars ($250).

4.20.6 Administration

4.20.6.1 Administration is performed by the Planning Board
SECTION 5.0 - REQUIRED IMPROVEMENTS FOR SUBDIVISIONS

5.1. Basic Requirements

5.1.1. The subdivider shall install all of the improvements itemized herein unless waived in writing by the Board. All work done under this section shall be done under the direction of the Planning Board.

5.1.2. No aforementioned Bond or Covenant shall be released until full approval in writing of all work done under this section is received by the Planning Board from its designated Inspector/Observer.

5.1.3. Referenced Standards


Typical Cross Sections (Appendix C) and Typical Details (Appendix D) of these Subdivision Rules and Regulations.

See also the Regulations of other Town of Norfolk Boards, Commissions, Committees, and Departments.

5.1.4 Staking Prior to Construction

Prior to the start of construction of any subdivision, the property shall be staked along both sides of the street right-of-way (or at an appropriate offset distance) at 50' intervals. Finish grades shall be indicated on the stakes. Lot corners and any easements across lots that terminate at the street right-of-way shall also be staked. The Planning Board shall be given written notice that staking is complete at least one week prior to the start of construction.

5.2. Streets and Roadways

5.2.1. Minimum Widths and Depths

The following minimum improvement standards shall be required (see typical cross sections):
5.2.1.1. **Minimum Width Requirements** (in feet)

<table>
<thead>
<tr>
<th>Street Classification</th>
<th>Right-of-Way</th>
<th>Paved Traveled Way</th>
<th>Grass Strip***</th>
<th>Sidewalks on Outside of Grass Strip</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residential Street</td>
<td>40*/50**</td>
<td>14*/24**</td>
<td>1 @ 8</td>
<td>1 @ 5</td>
</tr>
<tr>
<td>Secondary Street</td>
<td>50*/60**</td>
<td>16*/26**</td>
<td>2 @ 7</td>
<td>2 @ 5</td>
</tr>
<tr>
<td>Primary Street</td>
<td>50*/60**</td>
<td>16*/28**</td>
<td>2 @ 11</td>
<td>2 @ 5</td>
</tr>
</tbody>
</table>

Cross slope for traveled way, grass strips, and sidewalks shall be 1/4-inch per foot.

* Based on one-way street with no on-street parking.
** Based on two-way street with no on-street parking.
*** Includes berm, edging or curb.

5.2.1.2. **Minimum Depth Requirements** (in inches)

**Roadways**

<table>
<thead>
<tr>
<th>Street Classification</th>
<th>Processed Gravel</th>
<th>Dense Graded Crushed Stone for Base</th>
<th>Binder Course</th>
<th>Finish Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residential Street</td>
<td>12</td>
<td>4</td>
<td>2½</td>
<td>1½</td>
</tr>
<tr>
<td>Secondary Street</td>
<td>15</td>
<td>4</td>
<td>2½</td>
<td>2</td>
</tr>
<tr>
<td>Primary Street</td>
<td>18</td>
<td>4</td>
<td>3</td>
<td>2</td>
</tr>
</tbody>
</table>

**Sidewalks**

<table>
<thead>
<tr>
<th>Street Classification</th>
<th>Processed Gravel</th>
<th>Binder Course</th>
<th>Finish Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residential Street</td>
<td>12</td>
<td>1½</td>
<td>1</td>
</tr>
<tr>
<td>Secondary Street</td>
<td>12</td>
<td>1½</td>
<td>1</td>
</tr>
<tr>
<td>Primary Street</td>
<td>12</td>
<td>1½</td>
<td>1</td>
</tr>
</tbody>
</table>

5.2.2. **Clearing and Grubbing**

5.2.2.1. Clearing and grubbing shall be done in accordance with the relevant provisions of Section 101 of the M.H.D. Standard Specifications and Town of Norfolk Bylaws. (See also Appendix A - Earth Relocation/Removal.)
5.2.2.2. All excavation and embankment areas shall be first cleared of all stumps, brush, roots, boulders, debris, and like materials and disposed of off site. All loam and topsoil within the excavation/embankment areas shall be removed and stockpiled for reuse within the subdivision.

Brush and stump disposal shall be in accordance with the most recent Board of Health and DEP policy and/or regulations.

5.2.3. **Excavations**

Excavations shall be done in accordance with the relevant provisions of Section 120, Excavation, of the M.H.D. Standard Specifications and Town of Norfolk Bylaws. When 500 cubic yards or more of earth materials are to be removed from the site or relocated within the site, an Earth Relocation/Removal Permit is required. (See also Appendix A - Earth Relocation/Removal for requirements and instructions)

5.2.4. **Embankments**

5.2.4.1. Construction of all embankment fill shall be done in accordance with the relevant provisions of Sections 120, 150, and 170 of the M.H.D. Standard Specifications and Town of Norfolk Bylaws and in accordance with the procedures described herein.

5.2.4.2. Fill material shall be approved suitable existing material obtained from on site excavations and shall consist of solid, sound mineral aggregate. It shall be free from deleterious, organic, elastic or foreign matter and shall be adequately graded for satisfactory compaction into a stabilized soil structure.

5.2.4.3. Embankments shall not be constructed with material from rock or boulder excavations.

5.2.4.4. Off site fill material shall be gravel borrow conforming to M.H.D. Material Specification M1.03.0, Type b. A certificate of compliance indicating the gradation and source of material shall be submitted and approved prior to delivery of any material to the site.

5.2.4.5. Fill for embankments shall be placed in uniform layers not exceeding 12 inches in loose measurement depth and compacted to not less than 95 percent of the maximum dry density as determined by the Standard AASHTO Test Designation T99 compaction test Method C at optimum moisture content. No fill material shall be placed, spread or compacted while the ground fill material is frozen, thawing, or during inclement weather conditions. Fill material having excessive moisture content shall not be compacted until the material has been aerated by grading, harrowing or other methods to remove excessive moisture.

5.2.5. **Gravel Base**

5.2.5.1. The sub-grade shall be brought to proper grade and compacted as shown on the profiles and in accordance with the approved cross section. No gravel base
shall be placed until all earthwork and utility installation work has been completed.

5.2.5.2. Gravel for roadway base and sidewalk base shall be spread and compacted in layers not exceeding 6 inches in compacted measurement depth and in accordance with the approved cross section. Material shall be compacted to not less than 95 percent of the maximum dry density as determined by the Standard AASHTO Test Designation T99 compaction test Method C at optimum moisture content.

5.2.5.3. Construction of gravel base and binder courses shall be done in accordance with the relevant provisions of Sections 401 and 405 of the M.H.D. Standard Specifications except the gravel base shall be placed in layers whose compacted thickness shall not exceed 6 inches.

5.2.5.4. The standard for a suitable 1 foot gravel base beneath the bituminous concrete shall be M.H.D. Material Specification M1.03.0., Type C which has a gradation of 2 inch minus. A certificate of compliance indicating the gradation and source of material shall be submitted and approved prior to delivery of any material to the site. A sieve test of the materials shall be conducted with results provided prior to installation of same.

5.2.6. Dense Graded Crushed Stone For Roadway Base

5.2.6.1. Construction of all dense graded crushed stone for roadway base shall be done in accordance with the relevant provisions of Section 402, of the M.H.D. Standard Specifications and in accordance with the procedures described herein.

5.2.6.2. Processed gravel for base shall conform to M.H.D. Material Specification M2.01.7. A certificate of compliance indicating the gradation and source of material shall be submitted and approved prior to delivery of any material to the site.

5.2.6.3. A plan showing as-built surface grades of the completed dense graded crushed stone layer shall be submitted to the Board for approval prior to installation of the bituminous concrete binder course. This survey shall consist of obtaining centerline and both gutter elevations at fifty (50) foot stations. In areas where the roadway gradient and cross-slope do not agree with what is shown on the contact plans, the applicant shall reconstruct and resurvey those areas until the proper gradient and/or cross-slope is placed and compacted until written authorization has been obtained from the Planning Board or its engineer on the Form K.

5.2.7. Bituminous Concrete Pavement, Temporary Berm, Sidewalks, and Driveways Materials and construction methods of the bituminous concrete pavement, tack coat, sidewalks, and driveways shall conform with the relevant provisions of Sections 460 and 701 of the M.H.D. Standard Specifications and in accordance with the procedures described herein. Pavement shall be placed and compacted in two courses, binder and finish. All driveways and curb cut ramps shall slope toward the roadway and end at the roadway gutter line (See driveway detail in “Town of Norfolk Regulations for Street Excavations” as most
recently amended). Driveways shall commence their downward slope to the roadway from the right of way/street line and the ramps from the sidewalk. No driveways or ramps, which slope away from the roadway, will be accepted. Edging or curb (as applicable) shall be continued into the driveway/ramp cut to prevent erosion at the cut. A tack coat of bituminous material shall be applied by mechanical means immediately prior to installation of top course of pavement.

A temporary berm shall be constructed on the roadway binder course to direct stormwater runoff to the closed drainage system until a permanent curb/berm is installed. The temporary berm shall be a bituminous concrete dribble berm. At steep grades (greater than 4%) and at low points, a temporary cape cod berm shall be used.

5.2.8. Slant Granite Curbing

Sloped granite edging shall be required on both sides of all traveled ways and shall be set after the binder course is placed and before the top course is placed. A dribble berm and/or temporary cape cod berm, as appropriate, shall be installed at the time of binder course installation and shall be continuously maintained in working order until the final course of bituminous concrete is installed. Materials and construction methods shall conform to the relevant provisions of M.H.D. Standard Specifications M9.04.2 and in accordance with the procedures described herein. Certificates of Compliance shall be required in accordance with Subsection 5.17.

5.2.9. Curb and Edging

5.2.9.1. Sloped granite edging shall be installed in four-foot minimum lengths, except where shorter lengths are dictated to form a required radius. It shall be set on a compacted gravel bedding at an angle providing a 4 inch reveal. The nose of the granite shall be set in a concrete base approximately six (6) inches square, which shall abut against the binder course. The top course of paving shall cover the concrete and key the granite in place. Joints shall be mortared.

Installation of the slant granite curbing shall precede the installation of the bituminous concrete binder course.

5.2.9.2. Materials and construction methods shall conform with the relevant provisions of Section 501 of the M.H.D. Standard Specifications and in accordance with the procedures described herein.

5.2.10. Walkways

5.2.10.1. Width

The width of the walkway shall be four feet. Where such a walk cannot be constructed respecting the existing contours and natural features of the land such as trees, shrubs, stone walls, etc., a minimum width of three feet shall be allowed with prior written approval of the Planning Board.
5.2.10.2. **Clearing and Grubbing**

All excavation areas shall first be cleared of stumps, brush, roots, boulders, debris and like materials, which should then be disposed of off site. All loam and topsoil within the excavation area shall be removed and stockpiled for reuse.

The removal of all trees shall be in compliance with the Shade Tree Act and the Scenic Roads Act where applicable. Trees not protected under these Acts, if in living, viable condition and having a trunk in excess of 12 inches in diameter measured four feet above grade, shall be retained wherever possible. In addition, trees of special importance because of species or distance from other trees shall be field marked by the Planning Board or its agent indicating in each case whether the tree should be removed or preserved.

5.2.10.3. **Bituminous Paving**

Bituminous concrete pavement for sidewalks and driveways shall be installed to conform with the relevant provisions of Sections 460 and 701 of the M.H.D. Standard Specifications and in accordance with procedures described therein. Two courses of bituminous concrete pavement for walkways shall be installed to conform with generally accepted engineering practice.

5.2.10.4. **Grass Strip**

A grass strip separating the walkway from the road shall be installed wherever possible, consistent with the walkway design procedures described herein.

5.2.10.5. **Drainage**

The paved surface shall be pitched a minimum of 1/4 inch per foot in the direction of existing drainage facilities to provide adequate disposal of surface water including control of erosion, flooding, and standing water on adjacent lands.

5.3. **Stormwater Drainage System Construction Specifications**

Refer also to all Board of Health Regulations pertaining to drainage, and drainage design details in Section 4.19.

Materials and construction methods for the installation of the storm drainage system shall be in accordance with the relevant provisions of Sections 201, 220, 230, 260, and 280 of the M.H.D. Standard Specifications, except as modified herein.

To provide for proper drainage during the construction of all roadways, parking areas and maneuvering aisles, all utility frames (i.e. manholes, catch basins and service boxes) shall be temporarily set to the binder course surface grade. All
utility frames shall be reset to finish grade just prior to the placement of the finish course of pavement. Any bituminous concrete removed to facilitate resetting shall be replaced with cement concrete. Where leaching/percolation galleys are used, a collection system with a single discharge point shall be utilized.]

5.3.1. Frames, Grates and Covers
Ductile iron, ASTM A536: Manhole frames and covers shall be LeBaron Foundry Co. Catalog No. LK 110 with the word "DRAIN" on the cover, or "Sewer" for sanitary sewer systems, or an approved equal. Standard Catch basin frames and grates shall be LeBaron Foundry Co. Catalog No. LF 248-2 or an equal approved by the Planning Board prior to installation but in all cases the frames and covers must be manufactured in the United States of America. Cascade catch basin frames and grates shall be LeBaron Foundry Co. Catalog No. LK120D or LK121D or an equal approved by the Planning Board prior to installation but in all cases the frames and covers must be manufactured in the United States of America. Cement concrete collars shall be placed around the castings after the final setting and as directed. Bricks for adjusting frames shall conform to ASTM C32. Said bricks shall mean "Boston Bricks" (Red Tops). The plans shall note that the detail is to Town specifications if not already noted on the detail.

5.3.2. Manholes
Drainage and sanitary sewer manholes shall be precast, reinforced concrete conforming to ASTM C478, minimum 4 foot inside diameter, and coated outside with bitumastic in accordance with the manufacturer's recommendations. Joints and lifting holes to be mastic gasket. Manholes to service pipes larger than 30 inches in diameter shall require a special manhole in accordance with the M.H.D. standards. Manholes will be required at every change in direction, slope or diameter in the drainpipes and at intervals not to exceed 400 feet. Manhole steps shall be steel-reinforced polypropylene plastic and formed invert shall be cement concrete for storm drains and brick for sanitary sewers. When invert in manholes differ more than 2.75 feet, drop manholes shall be installed. All pipe to manhole connections shall be by a resilient connector conforming to ASTM C923, latest edition. Storm drain manholes shall be provided with a weep hole where warranted by high ground water.

5.3.3. Catch Basins
5.3.3.1. Catch basins shall be precast reinforced concrete conforming to ASTM C478, minimum 5 foot inside diameter with a 4 foot sump, and coated outside with bitumastic in accordance with the manufacturer's recommendations. All catch basins, manholes, and frames shall be set on "Boston Bricks" commonly referred to as red tops. Hoods shall be installed in all catch basins and shall be LeBaron Foundry Co. Catalog No. L202 or an approved equal. Standard catch basin frames and grates are required on all catch basins where the slope is not greater than 4%. Cascade catch basin frames and grates are required where the slope is greater than 4%. Joints shall be mastic gasket.

5.3.3.2. Catch basins shall be installed on both sides of the roadway on continuous grades at intervals not to exceed 250 feet, at low points and sags in the roadway,
and near the corners of intersecting streets. Catch basins shall be provided with inlet stones. Catch basin to catch basin connections will not be allowed. Drains must enter a catch basin type structure prior to entering a manhole. Catch basins shall also be provided on all upgradient legs of intersections prior to the PC or PT of the intersection curb returns. Storm gutter inlets shall be required at every catch basin with a granite transition from vertical to slant curb pieces/sections. (See 5.3.3.3.)

5.3.3.3. Curb Inlet Stones
Curb inlet stones shall be provided at all catch basins located within the roadway. Curb inlet stones and transition curbs are to be installed at the time the granite curbing is installed. See M.H.D. 9.04.1 for materials.

5.3.3.4. Transition Curbs
Granite transition curbs shall be provided for all curb inlet stones located in roadways that have sloped granite curb or bituminous concrete slab. Transition curbs are to be installed at the time the granite curbing is installed. See M.H.D. 9.04.1 for materials.

5.3.4. Flared and Metal Ends
Discharge ends of storm drains shall be provided with flared/metal ends conforming to M.H.D. standards. Backfill shall be placed and thoroughly compacted around the flared/metal ends. End walls may be used when approved by the Planning Board.

5.3.5. Field Stone Masonry Ends
Culverts shall be provided at both ends with field stone masonry ends. Materials and construction methods for masonry ends in cement mortar shall conform to the relevant provisions of Section 685 of the M.H.D. Standard Specifications.

5.3.6. Security Bars
Removable security bars shall be provided at the entrance and outface of all culverts or open pipe drains. Bars shall be constructed of a design approved by the Planning Board or its agent, and the grate shall be installed in a manner approved by the Planning Board or its agent. A suitable drawing of the grate and method of installation shall be submitted for approval with the plans for the drains and appurtenances.

5.3.7. Scour Protection
The discharge ends of all drains and culverts shall be protected with a riprap apron of a width not less than five feet plus the outside diameter of the pipe. The length of the apron shall be a minimum of twenty feet measured from the end wall or flared/metal end. Riprap shall conform to M.H.D. Material Specification M2.02.0. Stone for pipe ends will not be allowed.

5.3.8. Sub-drains
When it is determined that the water table will destabilize the proposed roadway, or sometimes to control erosion in cut slopes, installation of sub-drains will be required. Materials and construction methods shall conform to Section 260 of the M.H.D. Standard Specifications.
5.3.9. **Trench Excavation**
Trench excavation shall conform with the relevant provisions of Section 140 of the M.H.D. Standard Specifications and in accordance with the procedures described herein.

5.3.10. **Pipe Bedding**
The pipe shall be bedded in well compacted granular material placed on a flat trench bottom. The granular bedding shall have a minimum thickness of one fourth (1/4) the outside pipe diameter, 4 in. minimum, and shall extend halfway up the pipe barrel at the sides. The remainder of the side fills and a minimum depth of 12 inches over the top of the pipe shall be filled with carefully compacted gravel borrow conforming to M.H.D. Material Specification M 1.03.0, Type C or an approved backfill material. The granular bedding material shall conform to M.H.D. Material Specification M2.01.4.

5.3.11. **Pipe Installation and Backfilling**

5.3.11.1. Pipe shall be installed and backfilled in accordance with the relevant provisions of Section 230 of the M.H.D. Standard Specifications and in accordance with the procedures described herein.

5.3.11.2. Pipe laying shall begin at the downstream end of the installation with the bell or groove end of the first section upstream. The pipe shall be laid to the lines and grades specified with the pipe sections closely jointed. When bell and spigot pipes are used, bell holes shall be dug in the bedding to accommodate the bells. They shall be deep enough to insure that the bell does not bear on the bottom of the hole but shall not be excessively wide in the longitudinal direction of the installation.

5.3.11.3. When the pipe sections are laid, the barrel of each section shall be in contact with the quadrant shaped bedding throughout its full length exclusive of the bell. Where lift holes in the pipe have been provided, such holes shall be refilled with an acceptable grade of concrete after laying and the concrete shall be thoroughly cured before backfill material is placed.

5.3.12. **Leaching Pit or Basin**

5.3.12.1. Pits shall be located a minimum of 100 feet from any source of water supply, 50 feet from buildings, and 20 feet from existing property lines adjacent to the subdivision perimeter. The bottom of the leaching pit shall be at least 2 feet above groundwater and 5 feet above rock. Clear distance between two pits shall be at least three times the outside diameter of the larger pit. Leaching pits will not be located in clay soils or where there is less than 10 feet of soil above a rock formation. Overflow provisions shall be provided at each leaching pit or cluster of leaching pits to the satisfaction of the Planning Board.
5.3.12.2. Soil-percolation tests shall be conducted at the proposed location of each pit by a Registered Professional Engineer at half the depth and at the full estimated depth of the leaching pit. The required wall area or effective absorption area shall be determined from the soil-percolation test. The applicant shall submit to the Planning Board the results of the soil-percolation tests and the design of the leaching pits for review and approval.

5.3.12.3. Leaching pits shall be precast, reinforced concrete conforming to ASTM C478. Watertight ductile iron manhole frames and covers shall be LeBaron Foundry Co. Catalog No. LBW 268-1 with the word "Drain" on the cover or an approved equal. Double washed crushed stone conforming to M.H.D. Material Specification M2.01.2 shall be placed in the bottom of the pit to a minimum depth of 6 inches and around the pit to a minimum thickness of 12 inches. Leaching structures shall be preceded by acceptable pretreatment to allow the settlement of solids and separation of oil/grease from the collected stormwater.

5.4. Water Systems

5.4.1. Materials and construction methods shall conform to the relevant provisions of Section 301 of the M.H.D. Standard Specifications and Norfolk Water Department, and in accordance with the procedures described herein.

5.4.2. Hydrants shall be located at all low points, and hydrants or manual air release valves shall be located at all high points of the proposed water mains. Cement concrete collars shall be installed around all valve boxes.

5.4.3. Curb stops and boxes shall be located only within the proposed roadway right of way.

5.5. Sanitary Sewers

5.5.1. Materials and construction methods shall conform to the relevant provisions of Sections 201 and 230 of the M.H.D. Standard Specifications, Norfolk Board of Health, and in accordance with the procedures described herein. A low pressure air test shall be performed on all installed sanitary sewers in accordance with ASTM C828, latest edition.

5.5.2. Sanitary sewer pipe and fittings shall be polyvinyl chloride (PVC), SDR 35, conforming to ASTM D3034, latest edition. Large diameter PVC gravity sewer pipe and fittings shall conform to ASTM F679, latest edition.

5.5.3. Joints for PVC pipe and fittings shall conform to the relevant ASTM as stated in 5.5.1.

5.5.4. The pipe shall be bedded as described in subsection 5.3.10.

5.5.5. The pipe shall be installed and backfilled as described in subsection 5.3.11.

5.5.5. All pipe to manhole connections shall be by a flexible manhole sleeve of high quality synthetic rubber. This sleeve will allow for lateral and angular alignment as the pipe connection is made and shall conform to ASTM C923, latest edition.

5-10
5.6. **Private Utilities**

All private cable utilities including telephone, electric power, fire alarm, and cable communications lines shall be placed underground. All private cable utilities shall be installed using conduits, manholes, handholes and appurtenances required by each utility company. These private cable utilities along with gas distribution lines shall be installed with a minimum cover of 36 inches.

5.7. **Retaining Walls**

Retaining walls shall be installed where required and deemed necessary by the Planning Board. They shall be cemented stone masonry conforming to the relevant provisions of Section 685 of the M.H.D. Standard Specifications, Construction Standards, and in accordance with the procedures described herein. Maximum visible height of retaining walls shall be four (4) feet.

5.8. **Fire Alarm System**

The fire alarm system, if any, shall be installed in accordance with the recommended practices of the National Fire Protection Association. The number, type, and location of fire alarm boxes shall be established by the Norfolk Fire Department.

5.9. **Street Trees**

Trees shall be planted within the grass strip (or, if determined necessary by the Planning Board, in tree easements) at 35 foot or lesser intervals, on both sides of all streets. They shall be at least 12 feet in height and 3 inches in caliper at the time of planting. All trees shall be planted no later than one month after installation of the first course of bituminous concrete, and shall be guaranteed for one year after street acceptance. A written copy of said guarantee shall be provided to the Planning Board prior to street acceptance.

5.9.1. **Tree Species**

The species of street trees shall be chosen from the following species:

- Acer pseudoplatanus - Sycamore Maple
- Acer rubrum - Red Maple and varieties
- Acer saccharum - Sugar Maple and varieties
- Carpinus betulus - European Hornbeam
- Cercidiphyllum japonicum - Katsuratree
- Ginkgo biloba - Ginkgo variety
- Liquidambar styraciflua - Sweetgum var.
- Quercus palustris - Pin Oak
- Quercus rubra - Red Oak
- Zelkova serrata - Japanese Zelkova
- Sophora japonica - Japanese Pagodatree
– *Fraxinus pennsylvanica* - Green Ash var.
– *Pyrus calleryana* - Respire Callery Pear
– *Gleditsia triacanthos inermis* - Thornless Honeylocust var.
– *Platanus acerifolia* - Bloodgood London Planetree
– *Tilia cordata* - Littleleaf Linden and varieties
– *Tilia tomentosa* - Silver Linden

or such other tree variety, as appropriate, and as may be approved by the Planning Board.

5.9.2. There shall be at least three species of trees planted per street. No species of tree planted adjacent to any other tree shall be the same species as that tree.

5.9.3. The grass strip/tree easement areas shall be surfaced with not less than six (6) inches of topsoil which shall be seeded and rolled or otherwise vegetated to the satisfaction of the Planning Board.

5.9.4. Tree wells are required for the protection of existing trees where deemed necessary by the Tree Warden. Materials and planting methods shall conform to the relevant provisions of Section 771 of the M.H.D. Standard Specifications (including but not limited to staking and wiring of all trees). Prior to installation of the trees, the planting method shall be submitted to the Planning Board.

5.10. **Loaming and Seeding**
The removal of topsoil from the development area will not be allowed. Not less than six inches of good quality loam shall be placed within the right-of-way, cut and fill areas, easements, lots, etc. Materials and construction methods for loam, borrow and topsoil shall conform to the relevant provisions of Section 751 of the M.H.D. Standard Specifications and in accordance with the procedures described herein. Materials and construction methods for seeding shall conform to the relevant provisions of Section 765 of the M.H.D. Standard Specifications and in accordance with the procedures described herein. Seed for the grass strips shall conform to M.H.D, Material Specification M6.03.0, Grassplots and Islands. After loam and seed has been placed in retention/detention basins and at slopes equal to or steeper than 3:1, a jute mesh matting, or an approved equal, shall be installed in accordance with the manufacturer’s recommendations for slope stabilization. All loaming and seeding shall be installed no later than one month after installation of the first course of bituminous concrete.

5.11. **Street Signs**
The applicant shall furnish and erect necessary streets signs to designate the name of each street (and, in the case of cul-de-sacs, the designation “Not A Through Street”) in the development prior to the occupancy of any house on the street. Signs shall conform to those used by the Town and approved by the Highway Superintendent.

5.12. **Street Lights**
The applicant shall be responsible for paying fees established by the Town of Norfolk to defray the cost of installation and initial operation of streetlights at
locations approved by the Planning Board. In determining required locations, the Planning Board may consult with the Board of Selectmen and the Norfolk Highway Department. Street light fixtures and standards shall conform to fixtures and standards as most recently installed in the Town of Norfolk at the time of application. Refer to Appendix D for lighting pole and fixture standards.

5.13. Guard Rails

5.13.1. Guardrails shall be required along roadways in at least the following areas:

- Culvert crossings
- Where side slopes are steeper than 3 horizontal to 1 vertical
- Where, in the opinion of Planning Board, it is necessary for public safety

5.13.2. Materials and construction methods shall conform to the relevant provisions of Section 601 of the M.H.D. Standard Specifications and in accordance with the procedures described herein. Posts shall be pressure treated wood, rectangular in section 6" x 8", chamfered on top, and at least 6' 3" long with flat tops and butts, conforming to M.H.D. Material Specification M8.07.06.2. Rail elements shall conform to AASHTO -M180, class A, Type 4 - Beams of corrosion resistant steel. Guardrail shall not be ramped. A guardrail detail shall be provided for approval.

5.13.3. Wood Posts and Rails

5.13.3.1. Wood posts and rails are to be used only on very low speed roads having a design speed of 15 and 20 m.p.h. and parking areas and are to be pressure treated. Prior Planning Board approval is required for use of this type of barrier.

5.13.3.2.1.1. Wood posts shall conform to the materials and construction as described in subsection 5.13.2. Spacing of posts shall be a maximum of 6' 3" center to center. See Detail in Volume II.

5.13.3.3. Wood rails shall be 4" x 8" and of a length where joints are to be located only at the posts. Rails shall be of the same species and stress grade as the wood posts. Rails shall be treated in accordance with M.H.D. Specifications - Material Specification M8.07.08.2. Two - 5/8 inch carriage bolts shall be used to fasten the rail to the post and countersunk. Nuts shall be installed so that they cannot be backed off. The number of rails, either one or two, to be used for the wood guardrail shall be determined by the Planning Board.

5.14. Bounds

5.14.1. Materials and construction methods shall conform to the relevant provisions of Section 710 of the M.H.D. Standard Specifications and in accordance with the procedures described herein.

5.14.2. Bounds shall be set on both street lines at all angle points, at the beginning and end of curves, and at all intersections.
5.14.3. Certification, in writing, shall be made by the Registered Land Surveyor for the developer to the Planning Board that, as determined, by a survey after completion of construction, the bounds have been properly set in accordance with the approved plan and Rules and Regulations of the Planning Board. Tie sketches to Bound Points shall be furnished to the Planning Board and to the Highway Superintendent on 8-1/2 x 11" sheets of paper with a suitable Title Block.

5.14.4. Iron pipe monumentation driven at least three and a half feet (3' 6") into the ground with a minimum of six inches (6") exposed and with a diameter of 3/4 inches (3/4") is required for all easement corners.

Bounds are to be installed at the time the sidewalk top course is installed.

5.15. Curb-Cut Ramps

All ramps must comply with the Americans with Disabilities Act Regulations and with Architectural Access Board Regulations (521 CMR 5.1-47) in force and effective on the date of street acceptance.

5.15.1. Curb-cut ramps must be provided in curbed areas that have sidewalks. The location of the curb-cut opening and ramp must be carefully coordinated with respect to the pedestrian crosswalk lines, if any. This planning must ensure that the ramp opening (at the fully depressed curb) is situated within the parallel boundaries of the crosswalk markings.

5.15.2. Ramps for the handicapped are not limited to intersections and marked crosswalks, and ramps should also be provided at other appropriate or designated points of pedestrian concentration, such as loading islands, mid-block pedestrian crossings, and locations where pedestrians could not otherwise recognize the proper place to cross the roadway. Because non-intersection pedestrian crossings are generally unexpected by the motorist, warning signs should be installed and adequate visibility provided by prohibiting parking.

5.15.3. Ramps for the handicapped should have a textured nonskid surface. This texture not only provides a measure of safety for the user but also warns a blind person of the presence of the ramp.

5.16. Final Cleanup

5.16.1. Upon completion of all the work in the subdivision, the applicant shall remove from the right of way and all adjoining properties all temporary structures, rubbish and debris, surplus material, other objectionable materials, and shall leave the area(s) in a neat and orderly condition.

5.16.2. All storm drainage and sanitary sewer pipes and structures shall be cleaned and flushed, at the applicants expense, prior to final inspection and acceptance.

5.17. Certificates of Compliance

Certificates of compliance shall be submitted to the appropriate, responsible agency as indicated on the Form K, Subdivision Inspection Checklist, for approval.
of all materials being used in accordance with the relevant provisions of Section
6.00 of the M.H.D. Standard Specifications.

5.18. Maintenance

All roads and utilities, including basin cleaning and snow removal, shall be
maintained by the applicant until final inspection and acceptance by the Town.
Annual work such as cleaning catch basins, repairing curbing, pothole repair and
snow removal/sanding must be completed by the developer. If released from
restrictions with regard to sale of lots or buildings on lots by the posting of a Bond,
the Subdivider shall maintain the roads for the vehicular travel in a manner
satisfactory to the Planning Board. Further, the Subdivider shall guarantee the
maintenance of the roads in a subdivision in a condition which meets all the
requirements of these Rules and Regulations to the satisfaction of the Planning
Board, by posting a bond with two or more sureties approved by the Board or by
a surety company authorized to do business in the Commonwealth, in a penal
sum as required by the Board to secure the maintenance as herein provided, or
by a deposit of money or negotiable securities sufficient in amount, in the opinion,
of the Board, to secure the aforesaid maintenance. Such bond shall be held until
the streets are accepted by the Town.

The bond shall be subject to forfeiture as liquidated damages upon failure of the
developer to perform the required roadway maintenance within a reasonable
time upon notice by the Town of Norfolk.

5.19. Stop Work Orders

At any time during the course of construction the Board may issue an order to
cease some or all work within the subdivision or to undertake corrective or
remedial work whenever the applicant has violated these rules and regulations,
plan specifications, or conditions of approval. The applicant shall comply with all
such orders and failure to do so shall entitle the Board to rescind or amend plan
approval or to take, at applicant’s expense, any corrective or remedial action.
SECTION 6.0 - ADMINISTRATION

6.1. Authority

6.1.1. The Planning Board shall be the administrative agency of these regulations and shall have all the powers assigned them by Section 81A to Section 81GG of Chapter 41 of the Massachusetts General Laws.

6.1.2. The Planning Board may assign as their agents appropriate town agencies or officials and may hire professional assistance to review plans and inspect/observe improvements, at the cost of the Applicant.

6.1.3. The Board, on its own motion or on the petition of any interested person, shall have the power to modify, amend, or rescind its approval of a plan of a subdivision, or to require a change in a plan as a condition of its retaining the status of an approved plan, in accordance with Section 81W or Chapter 41, M.G.L.

6.2. Variation

6.2.1. Waiver of Compliance

6.2.1.1. Strict compliance with the requirements of these Rules and Regulations may be waived only when, in the judgment of the Board, such action is in the public interest and not inconsistent with the Subdivision Control Law. In waiving strict compliance the Board may require such alternative conditions as will serve substantially the same object as the standards or regulations waived.

6.2.1.2. Request for Waivers from Planning Board

Waiver requests shall be submitted with and stated on the definitive plan or contained in a separate instrument attached thereto and referred to on said plan. All such requests for waivers shall be heard at the public hearing for the definitive plan.

6.2.2. Planned Development

The Planning Board will give consideration to suggestions offered by the Developer that will tend to provide for the most efficient use of land in harmony with its natural features.

6.3. References

For matters that may arise during subdivision procedures that are not covered by these Regulations, the following are accepted as standards in their applicable portions: "Sections 81K to 81GG" of Chapter 41 of the Massachusetts General Laws; "Suggested Land Subdivision Regulations" H.H.F.A.; "A Policy on Geometric Design of Highways and Streets", American Association of State Highway and Transportation Officials, Latest Edition, as amended; "Standard Specifications for Highways and Bridges", Massachusetts Highway Department (formerly The
Compaction testing for installation of water and other lines shall be in accordance with Mass. Highway Department specifications, the Town of Norfolk Highway Department, or the Town of Norfolk Water Department whichever is the most stringent.

6.4 Validity

If any section, paragraph, sentence, clause, or provision of these regulations shall be proved to be invalid for any reason, the invalidity shall apply only to the material so affected and the remainder of these regulations shall be deemed valid and effective.

6.5 Amendments

These regulations or any portion thereof may be amended, supplemented or repealed from time to time by the Board after a public hearing on its own motion or by petition, in accordance with Section 81Q of Chapter 41, M.G.L.

6.6 Inspection/Observation of Improvements

See Appendix A for Fee Schedule relative to Observation/observation of improvements. Applicants are to pay a fee for the Observation/observation of improvements. This fee is in two parts and is to be paid at the time of endorsement of the plan by the Planning Board. The Planning Board Consulting Engineer Observation Fee and Town Highway Department Observation Fee are payable at the time of endorsement of the definitive plan. All unexpended funds are to be returned to the applicant at the time of street acceptance by the Town of Norfolk. Town Highway Department Observation Fees are authorized under Chapter 44, Section 53E-1/2. The rate paid is for Observations made by Town of Norfolk employees at the hourly pay rate of employees who are authorized to make Observations for the Norfolk Planning Board.

The proper inspecting/observation Town Official and/or Agent shall indicate on Form K1, Subdivision Observation Checklist, presented in Appendix B, the date of Observation and the approval signature and shall file such form, and an Observation report, if any, with the Board subsequent to each Observation.

The Planning Board or its agent, Highway Superintendent or his agent, Health Department, Tree Warden, Water Department, Police Department, and Fire Department, shall be separately notified, in writing, at least forty-eight (48) hours prior to the commencement of any of the work.

If any of the designated work below is commenced without proper notification being given as specified, such work shall be performed at the risk of the developer or owner. Sufficient lines and grades shall be provided by the
developer or owner for the purpose of verifying that installation is in accordance with the definitive plans.

6.6.1. Erosion and Sedimentation Controls
Prior to work commencing within the subdivision, the installation of all erosion and sedimentation controls required by the subdivision approval are to be observed.

Observation #1 - Erosion and Sedimentation Controls

6.6.2. Clearing and Grubbing of Right of Way
The entire area between excavation/embankment areas shall be cleared, except trees of aesthetic value and those over four (4) inch caliper may be allowed to remain provided that they are located at least five (5) feet outside the street line, and are approved by the Tree Warden and the Planning Board. Loam and topsoil shall be removed and stacked.

Observation #2 - Clearing and Grubbing of Right of Way

6.6.3. Excavation
Earth shall be excavated to the lines and grades shown on the plans. Earth removal shall be performed as per the requirements of Appendix A and in accordance with Town of Norfolk Bylaws (Article VII - Land Use And Resource Protection) as most recently amended. Muck, rock, clay, boulders, and other unstable material shall be removed to a depth as directed by the Inspector/Observer.

Inspection #3 - Excavation

6.6.4. Embankments
Embankments shall be constructed of approved materials as specified with appropriate compaction test results provided.

Observation #4 - Embankment Construction

6.6.5. Staking
Roadways are to be staked at 50 foot intervals at their centerline and at right of way line prior to work commencing on the storm drainage system.

Observation #5 - Staking

6.6.6. Storm Drainage System
Storm drainage system shall be installed in conformity with the definitive plan and Water Department requirements with appropriate compaction test results provided prior to backfilling. These shall include all drains, catch basins, manholes, culverts, retention/detention basins, and sub-drains called for in such plan. In no case shall any drain pipe or culvert be within two feet of the sub-grade plane. All drainage installation shall be inspected prior to backfilling.

Observation #6 - Below Grade Storm Drain Installation
Observation #22 - At Surface Storm Drains
Observation #39 - Retention/Detention Basins and Appurtenances

6.6.7. Sanitary Sewer System
All sanitary sewer mains, manholes, laterals, testing, and associated equipment shall be installed in conformity with the definitive plan and as required. All sewer installation and low pressure air testing shall be inspected and completed prior to backfilling.

Observation #7 - Below Grade Sanitary Sewer Installation
Observation #8 - Sanitary Sewer Laterals Installation
Observation #9 - Sanitary Sewer Testing
Observation #23 - At Surface Sanitary Sewers

6.6.8. Water System
All water mains, laterals, hydrants, and associated equipment shall be installed in conformity with the definitive plan. Installation and testing, including but not limited to compaction testing shall be inspected. Prior to acceptance the following shall be accomplished:

Observation #10 - Below Grade Water Main Installation
Observation #11 - Water Main Testing and Disinfection
Observation #12 - Water Main Laterals Installation
Observation #24 - At Surface Valve Boxes
Observation #25 - At Surface Curb Boxes
Observation #31 - Hydrants - Finish Grade

6.6.9. Sub-grade of Right of Way
Sub-grade shall be brought to the proper grade and cross section, and fine graded and compacted in accordance with the specifications and to the satisfaction of the Inspector/Observer.

Observation #13 - Fine Grade and Compact Sub-grade

6.6.10. Processed Gravel Base and Base
The gravel for the roadway base and driveway, sidewalk, and curb-cut ramp bases shall be installed in layers not exceeding 6 inches in compacted depth and as specified.

Observation #14 - Gravel Base for Roadway - First Course of 6" Compacted Processed Gravel
Observation #14A - Gravel Base for Roadway - Second Course of 6" Compacted Processed Gravel
Observation #14B - Gravel Base for Roadway - Third Course of 6" Compacted Processed Gravel
Observation #15 - Dense Graded Crushed Stone Base - Final Course
Observation #16 - Processed Gravel Base for Sidewalks - First Course of 6" Compacted Processed Gravel
Observation #17 - Processed Gravel for Sidewalks - Final Course

6-4
6.6.11. **Dense Graded Crushed Stone Base**
The dense graded crushed stone for base shall be installed as specified.

Observation #18 - Dense Graded Crushed Stone for Roadway Base
Observation #18A - Survey of Center Line and Both Gutter Lines

6.6.12. **Bituminous Concrete Pavement**
The bituminous concrete pavement for roadways, sidewalks, driveways, and curb-cut ramps shall be installed as specified in two courses, binder and finish, and drive-ways constructed starting at the gutter line and sloping up towards the right of way.

A tack coat of bituminous material shall be applied by mechanical means immediately prior to installation of top course of pavement.

Observation #19 - Roadway Binder Course/Temporary Berm
Observation #21 - Sidewalk Binder Course
Observation #26 - Roadway Tack Coat
Observation #26A - Roadway Finish Course
Observation #27 - Sidewalk Tack Coat
Observation #27A - Sidewalk Finish Course

6.6.13. **Curb and Edging**
Curb and Edging shall be installed as specified.

Observation #20 - Curb/Edging Installation
Observation #20A - Curb Inlet Stone Installation
Observation #20B - Transition Curb Installation

6.6.14. **Curb-Cut Ramps and Transformer Pads**
Transformer Pad location to be approved by Planning Board or its agent and constructed pad observed by Planning Board Agent.

Observation #28 - Curb-cut Ramps
Observation #28A - Transformer Pads

6.6.15. **Loam and Seed**
Loam and seed shall be installed in all grass strips and on embankment/excavation slopes as specified and to the satisfaction of the Inspector/Observer.

Observation #30 - Loam and Seed

6.6.16. **Retaining Walls**
Retaining walls shall be installed as specified.

Observation #32 - Retaining Walls

6.6.17. **Guard Rails**
Guard rails shall be installed as specified.
6.6.18. **Street Trees and Plantings**
Street trees and plantings shall be installed as specified.

Observation #34 - Trees and Planting (Developer to provide documentation of tree warranty.)

6.6.19. **Street Signs and Bounds**
Street signs and bounds shall be installed as specified.

Observation #35 - Bounds and Monuments
Observation #37 - Street Signs

6.6.20. **Fire Alarm System**
Fire alarm systems shall be installed as specified.

Observation #36 - Fire Alarm Installation

6.6.21. **Street Lights**
Street lights shall be installed as specified.

Observation #38 - Street Lights

6.6.22. **Final Cleanup**
Final cleanup shall be accomplished to the satisfaction of the Inspector.

Observation #40 - Final Cleanup Observation

6.6.23. **Maintenance**
Streets and appurtenances shall be maintained as specified to the satisfaction of the Inspector/Observer.

Observation #41 - Maintenance

6.6.24. **As Built/Acceptance Plan/Running Description of Roadway and Easements**
See Section 3.4.7, for additional steps to finalize completion of Form K, Observation Report, and acceptance by the Town of subdivision roadways.

Observation #42 - Acceptance Plans/Running Descriptions

6.6.25. **Deed/Easement Submittal**
Proper deed for street right of way and proper easements to the benefit of the Town of Norfolk.

Observation #43 - Deeds/Easements

6.6.26. **Other**
Special conditions of approval or other items that may have been required within the approval conditions.

6-6
Observation #44 - Miscellaneous other items.

NOTE: See Section 3.4.7, for additional steps to finalize completion of Form K and acceptance by the Town of Norfolk subdivision roadways.
SECTION 7.0 SITE PLAN APPROVAL: ADMINISTRATIVE REQUIREMENTS

7.1. **AUTHORITY**

7.1.1. The administrative requirements herein are authorized by the Town of Norfolk Zoning Bylaws, Site Plan Approval and references to Special Permit Granting Authority.

7.2. **PRECEDENCE**

7.2.1. In case of conflict with the enabling statute, the zoning bylaw, and these regulations, the order of precedence shall be:

1. Statute; 2. Bylaw; then 3. these regulations.

7.3. **APPLICABILITY**

7.3.1. In all districts no building shall be constructed or externally enlarged and no use shall be expanded in ground area or established in an existing building except in conformity with a site plan bearing an endorsement of approval by the Planning Board. This provision shall not apply to single family homes, including additions or enlargements, which are permitted in the district in which the property is located as a matter of right. (See Norfolk Zoning Bylaws - Site Plan Approval)

7.4. **REQUIREMENTS**

7.4.1. **Pre-Submission Review**

The applicant is encouraged to follow the procedure outlined for preliminary plans as noted in Section 2.6. of these Rules and Regulations.

7.4.1.1. The applicant is encouraged to review copies of the Regulations of other Town Departments/Boards before preparing plans and to become aware of any fees/charges of other Town of Norfolk entities.

7.4.2. The Site Plan shall be drawn on a reproducible mylar at a scale of 20" to the inch, and on a maximum sheet size of 24" X 36", all existing (dash line) and proposed (solid line) in compliance with the requirements of Site Plan Approval of the Zoning Bylaws. Site plans shall be drawn to meet requirements of the Registry of Deeds for the recording of same.

Separate sheets shall be used to retain plan legibility.

7.4.2.1. The name and address of the developer and/or applicant (if different from the owner) and interest of applicant if not the owner or developer.

7.4.2.2. All of the provisions of Sections 4 and 5 shall apply to projects submitted for site plan approval, substituting the words "site" for "subdivision" and "applicant" for "subdivider".

See also Section 8 for items that may pertain to Site Plans.

7.4.3. **Contents**

The Site Plan shall contain, at a minimum, the following information to assist the
Planning Board in evaluating the site plan:

7.4.3.1. The names and addresses of the record owner of the land and the name, seal, and address of the designer, engineer, and surveyor who made the plan, all of which shall appear in the lower right hand corner.

7.4.3.2. A Signature Block located on the right side of each drawing with suitable space to record the action of the Planning Board and the signatures of the members of the Board.

7.4.3.3. A locus plan drawn to a scale of 1" = 1000' showing the general location of the site in relation to all adjacent and nearby roads, railroads, waterways, and utility easements. Name of development, scale and north arrow, date of plan and legend.

7.4.3.4. The lot shall be tied into the nearest town, county, and state bound. Bearings and curve data distances of all lot lines. Locations of driveways, parking and service areas, names of all parties of interest including abutters, owners of land directly opposite on any public or private street or way, and abutters to the abutters within three hundred feet of the property line as they appear on the most recent applicable tax list including those in other cities or towns. The plan shall also show the location of easements, rights of way, public or private ways, and other reservations existing, planned or proposed, on, adjacent to, or intersecting the subject site.

7.4.3.5. Assessor's Map, Block, and Lot numbers of subject property.

7.4.3.6. Zoning district(s) and any boundary of zoning districts within the lot, along any lot line, or within any adjoining property.

7.4.3.7. Topography for the entire site shall be shown in two-foot intervals except where the Board requires that a one-foot contour interval be used. Contours and elevations of existing and proposed features shall be based on the National Geodetic Vertical Datum of 1929 (NGVD).

Existing contours are to be shown as dashed lines and proposed contours are to be shown as solid lines. A note shall be added to the plans that states, "Grading is as indicated on the approved site plan".

7.4.3.8. The location and dimensions (including height) of all existing and proposed buildings and structures, including ground coverage, gross floor area, and breakdown of indoor and outdoor floor area. Open area uses and other uses and improvements. All doorways and their way of opening shall be shown for all existing and proposed buildings. Location of buildings existing on the tract to be developed and on adjacent tracts within a distance of 100 feet from the property line, indicating whether existing buildings on the tract are to be retained, modified, or removed. Existing soil conditions and soil suitability test results.

A statement of the amount of area of land involved in the site, the percentage of the site proposed to be covered by buildings and parking areas, the number of square feet of gross floor area, the area to be proposed to be devoted to open
space, the area proposed to be paved for parking, driveways, loading space, and sidewalks, the total number of parking spaces proposed and required by the Zoning Bylaws for the uses proposed, the number of employees expected per shift, and the total floor area of proposed commercial, industrial, office or other use.

Where the zoning bylaws set requirements related to the above figures, those requirements also shall be listed in a manner that permits comparison of the required vs. the proposed quantities.

7.4.3.9. Existing and proposed front, side, and rear yard dimensions. Proposed dimensions shall be in accordance with the Town of Norfolk Zoning Bylaws as most recently revised.

7.4.3.10. Parking lots: showing driveway entrances and exits designed for safe ingress and egress, curb cuts, layout of parking spaces, aisles, pedestrian walks, necessary ramps, and representative cross sections of all proposed service and parking areas and driveways. All of the above shall be in accordance with the applicable sections of the Town of Norfolk Zoning Bylaws as most recently revised. All parking and access shall comply with the Architectural Access Board and Americans with Disabilities Act regulations. The applicant shall indicate the basis for determining the number of parking spaces. No parking is allowed in front of buildings serving common exterior walkways. Parking lots shall not be located within three (3) feet of any property line, except in the B-1 and C-1 zoning districts.

The plan for any new retail building shall include an access for fire equipment on at least two sides of the building, such access to be approved by the Fire Chief on the plans prior to construction of the building. Access to present buildings shall be kept clear of hazardous substances and obstacles which may, in the opinion of the fire department, impede the proper placement of fire apparatus and personnel in case of fire.

Proposed traffic circulation systems, including the volume and proposed direction of projected traffic flows into, out of, and within the site for both vehicles and pedestrians for an average day and for peak hours.

Parking lots and off-street loading facilities showing driveway entrances and exits designed for safe ingress and egress, curb cuts, layout of parking spaces and aisles, off street loading facilities, pedestrian walks, necessary ramps, and representative cross sections of all proposed parking areas and driveways. Also show curb stops.

See Section 8 for further details regarding requirements for development of commercial/business properties.

7.4.3.11. All existing and proposed landscape features such as fences, walls, planting areas, and walks. Planting details in buffer zones and green belts shall include species, height of species, spacing of plantings and shall be shown at sufficient scale to illustrate clearly the landscaping design. (See those Sections of the Norfolk Zoning Bylaw, as most recently amended, pertaining to landscaping, buffers, greenbelts and all other applicable Sections.) Plans for walks, walls, and fences shall include dimensions and finishes.
7.4.3.12. All plans shall show the edge of wetlands, the edge of the 100 year (FEMA) flood plain, the edge of isolated areas subject to flooding, the banks of intermittent streams, the banks of perennial streams, the banks of lakes and ponds, the banks of rivers, the edge of riverfront zones, and the edge of the 100 foot wetland buffer zones. The limits of these resource areas shall be determined in accordance with applicable Massachusetts Department of Environmental Protection Regulations (310 CMR 10.00-10.60) and any Town of Norfolk Zoning Bylaw, Town Bylaw or Town Regulation relative to wetland protection, aquifer protection, and/or water resource protection. FEMA panel number, zone designation, and base flood elevation shall be indicated on the plan. Wetland boundaries shall be identified according to the requirements of the Conservation Commission as to criteria and time of year analyzed.

7.4.3.13. All facilities for water supply and distribution, fire protection, lighting, and facilities for the prevention of air pollution and protection of the groundwater. All utilities are to be installed underground.

7.4.3.13.1. The following site lighting information shall be provided: type, height, wattage, foot candle output directly under the light source, and footcandle output at the property line and a photometric layout/diagram showing direction and intensity of outdoor lighting. Lighting fixtures shall be of "cut-off" design, and not floodlight design, unless otherwise approved by the Planning Board. All lighting is to be placed at the perimeter of parking lots. Foot candle output directly under the light source shall not exceed five (5) and shall not exceed .25 at the property line. Lighting (poles and fixtures combined) shall not exceed 15' in height.

7.4.3.13.2. A duplicate site plan showing a photometric diagram/layout to establish the boundaries of the illumination shall be provided. The duplicate site plan need not show the detail of the actual site plan, but shall show the lot, building(s) on the lot, light standard location, and perimeter of the illumination of each light.

7.4.3.14. Location and dimensions (including height) of all storage facilities for equipment, material, and other like items.

7.4.3.15. Location and dimensions (including height) of facilities for garbage, rubbish, and other waste collection and disposal. Description and plan of capacity and location of means of sewage disposal together with approval of the Board of Health and evidence of soil suitability for such disposal (test pit locations shall be shown on the plans).

7.4.3.16. All facilities for accommodating storm-water drainage and snow-melt runoff from all buildings, driveways, parking areas, and service areas on the site. The site plan shall be accompanied by a storm drainage study based on the design criteria of a 25-year storm, certified by a professional engineer and a proposed drainage system plan, both surface and subsurface, showing measures proposed to prevent pollution of surface or ground water, soil erosion, increased run-off, changes in ground water level and flooding. All storm water drainage shall be contained on site unless otherwise approved by the Planning Board. Major structures, culverts, detention basins, and retention basins shall accommodate the 100 year frequency storm event. Leaching pits, basins, and galleys shall be installed and shall conform to Subsection 5.3.12.
Soil Percolation tests shall be conducted in accordance with Subsection 5.3.12.2. All facilities for accommodating storm water drainage shall comply with the relevant paragraphs of Regulation 5.3. Runoff from all structures shall be accommodated into leaching basins unless otherwise approved by the Planning Board. All runoff from parking areas, driveways and service areas on the site shall be directed into a dedicated oil-water separator. Roof runoff shall be discharged into drywells.

7.4.3.17. A plan for the control of erosion, siltation, and dust before and during construction including appropriate ground cover and street sweeping of adjacent public ways as required by the Board. The Board may require seeding.

7.4.3.18. Location and dimensions (including height) of existing and/or proposed free standing signs and the manner of their external illumination.

7.4.3.19. All private wells within 200’ of the property.

7.4.3.20. All public or community water supply wells within 1000’ of the property.

7.4.3.21. Removal of earth shall be performed in accordance with the requirements set forth in Appendix A in accordance with the Town of Norfolk Bylaws and as specified by other agencies. The applicant shall also indicate on the plan the cubic yards of gravel borrow that will be trucked onto the site. The Board may require certification of compliance with G.L. c. 21E, as most recently amended, with respect to the existence of contamination or threat of contamination on the site.

7.4.3.22. The maximum size vehicle, including trailers, expected to use the site after construction shall be identified by length, width, height, and AASHTO designation.

7.4.3.23. All existing and proposed structures shall have indicated on the plans their garage and pedestrian entrances and exits and their openings.

7.4.3.24. All existing and proposed public and private utilities, above and below grade, along with their type, size, and class, shall be shown on the plan. All proposed and existing public and private utilities on site shall be located underground.

7.4.3.25. All waivers proposed by the Applicant and approved by the Planning Board or a statement to the effect that no waivers are being requested shall be indicated on the plan.

7.4.3.26. There shall be no impact of drainage on abutting public water supply.

7.4.3.27. The construction requirements of parking lots and driveways shall be the same as that for Secondary Streets.

As may be specifically allowed under the Norfolk Zoning Bylaws, parking lots may be other than bituminous pavement as follows:

7.4.3.27.1. Parking areas serving municipal open spaces shall be classified as being in one of two use categories: Conservation-Passive Uses for which vehicle use is infrequent
(trips/day) and of low capacity (parking less than 20 cars) and Recreation-Active uses for which vehicle use is frequent (trips/day) and of high capacity (parking above 20 cars).

7.4.3.27.2. Drainage for both Conservation-Passive and Recreation-Active parking areas shall be designed such that there is no increased runoff impact from the built condition as compared to the existing condition. All drainage design shall be under the direction of a licensed professional as is required for any site plan documents. The site design shall strive to mitigate existing land deficiencies that create an undesirable impact off-site.

7.4.3.27.3. Parking area design shall establish that there is satisfactory sub-surface soil material to structurally support the proposed vehicle use. The sub-grade shall meet design standards required for local roadway design of residential subdivisions. There shall be a minimum of eight (8) inch thickness of graded, crushed stone base meeting the installation and stone material standards of a local residential subdivision street. There shall be a 4" thick dense graded crushed stone layer and 4" thick bituminous concrete pavement corresponding to the standards for a local residential subdivision roadway.

7.4.3.27.4. Conservation-Passive parking area surfaces may be one of the following surfacing options:

- Pavers and grass at 1-1/2" minimum paver thickness;
- Natural or synthetic honeycomb pavers a minimum of 6" deep and bearing on fully compacted base material and filled/surrounded with porous granular materials;
- A 2" thickness of graded crushed stone with aggregate at 3/4" plus 1" size.

7.4.3.27.5. Recreation-Active area surfaces may be one of the following surfacing options:

- 2-1/2" thick asphalt binder course
- 2-1/2" thick permeable asphalt
- 2-1/2" of compacted stone dust

7.4.3.27.6. Parking spaces are to be adequately denoted by permanent measures as approved by the Planning Board.

7.4.3.27.7. Maintenance Covenant: All municipal parking areas built for Conservation or Recreation uses under a Special Permit shall be subject to a periodic site review by a licensed highway design professional for permit/use reinstatement. A report prepared by a licensed highway design professional on parking area conditions (complete with photographs) shall be submitted at least once every 36 months after construction completion.

7.4.3.27.8. Public access and public safety conditions shall be a condition of any such parking lot use. Such conditions as safe access from a public way, lighting and traffic controls, lane and parking stall markings, parking area travel way, etc. shall be in conformance with the regulations for normal Site Plan Approval.

7.4.3.27.9. All other aspects and criteria listed in the Zoning Bylaws for granting of any
Special Permit shall be applicable for these Conservation and Recreation Parking Area Special Permits.

7.4.3.28. Parking stalls shall be painted according to M.H.D. specs, as most recently amended. Lines shall be at the head of and along the sides of parking stalls. Lines shall be a minimum of 4" wide and shall be one consistent color, either yellow or white. Stalls are measured from inside edge of lines. All pavement markings shall be painted with reflectorized paint.

7.4.3.29. Any additional details that may be pertinent.

7.4.3.30. The applicant shall provide a written statement describing how the proposed site plan application meets the general conditions of approval of Norfolk Zoning Bylaw Section F.11.c.

7.5. SUBMISSION

7.5.1. General

The following shall be submitted to the Planning Board Office:

1. 16 copies of the Site Plan
2. 16 copies of the application form "Site Plan Approval Application"
3. 16 copies of the site plan approval checklist
4. Application Fee (See Fee Schedule for amount of fee.)
5. Review Fee (See Fee Schedule for amount of fee.)
6. 3 copies Certified List of Abutters from Assessors' Office
7. Application to Design Review Board
8. Copy of any decisions for subject property from Zoning Board of Appeals
9. 5 copies of stormwater drainage report
10. 10 copies of traffic assessment (study)
11. Completed Bank Tax ID Form for review fee funds
12. Letter regarding use of Board's consultant - See Section 2.5.
13. Good Standing Approval from Tax Collector's Office

Note: Please also contact the Board of Health office for its Site Plan fee.

The Planning Board shall distribute, within five (5) business days of acceptance by the Board, one (1) copy each to the Building Commissioner, Board of Health, Conservation Commission, Water Commissioners, Police Chief, Fire Chief, and Highway Superintendent. The agencies receiving these copies shall have up to 21 days to make recommendations to the Planning Board. Should these reviews and that of the Planning Board reveal omissions of required information or instances of non-compliance with Town Bylaws, and/or Rules and Regulations, the site plan may be returned to the applicant with a list of the discrepancies noted for correction and re-submittal no later than 45 days from the date of the original filing of the Site Plan.

7.5.1.1. The application must be accompanied by three (3) copies of a certified list, from the Board of Assessors, of the names and addresses of all abutters and abutters to abutters within 300' of the subject property taken from the most recent tax list.

7.5.1.2. If the property was previously granted a Special Permit or Variance from the
Zoning Board of Appeals, a copy of the decision and the site plan reviewed by the Board of Appeals must also accompany the application. If the property is before the Board of Appeals for a Special Permit at the time of application to the Planning Board for Site Plan Approval, a copy of the application form submitted to the Zoning Board of Appeals shall also be submitted to the Planning Board.

7.5.1.3. The site plan shall be prepared by a Professional Engineer (PE) and a Registered Land Surveyor licensed to practice in the Commonwealth of Massachusetts as appropriate, and certified by same with their seal, stamp and signature. The proposed use(s) and site development shall conform to the requirements set forth in the Town of Norfolk Zoning Bylaws and other regulations as applicable. The plan shall conform to the administrative requirements set forth herein.

7.5.1.4. Technical data, as deemed by the Planning Board to be necessary, shall be provided to support the site plan and resulting findings.

7.5.2. Traffic Congestion Control and Analysis
The provisions of subdivision regulation 3.3.2.23.1.-3. shall apply to projects submitted for site plan review, substituting the word "applicant" for the word "subdivider" therein.

7.5.3. Waivers
Upon request of the applicant, the Planning Board may waive the requirement to provide any of the planning information listed under Section 7.4, which it deems not relevant to the proposed development.

7.6. SITE PLAN SUBMITTAL FEE

7.6.1. See Planning Board Fee Schedule (Appendix A, Volume I).

NOTE: Contact the Board of Health regarding its Site Plan Fee[s].

7.7. HEARING

7.7.1. Notice

7.7.1.1. Notice of hearings shall be advertised as required by the provisions of General Laws, Chapter 40A, Section 11.

7.7.1.2. The public hearing shall be held within 65 days from the date of the proper filing of the application.

The public hearing shall be conducted in accordance with the rules and procedures prescribed by the Planning Board as required by the Zoning Act of Massachusetts General Laws and shall be open to the public and in accordance with Mass. G.L. Ch. 39, Sec. 23 a, b, & c, as amended. ("Open Meeting Law")

7.7.3. Representation and Absence

An applicant may appear in his own behalf, and/or be represented by an agent or attorney. In the absence of any appearance without due cause on behalf of an applicant, the board may decide on the matter using the information it has otherwise received.
7.8. DECISION

7.8.1. Within 90 days from the conclusion of the public hearing, the Planning Board shall vote on Site Plan Approval.

7.8.2. The Planning Board shall have the power to modify or amend its approval of a site plan on application of the person owning or leasing the premises, or upon its own motion in the event of changes in physical conditions sufficient to justify such action within the intent of the Zoning Bylaws. All of the provisions applicable to approval shall, where apt, be applicable to such modification or amendment.

7.8.3. Voting Requirement

7.8.3.1. The concurring vote of at least four (4) members of the Board shall be necessary to grant Site Plan Approval. Any amendments or conditions proposed to an original motion to grant Site Plan Approval shall be declared passed, based on a simple majority vote.

7.8.3.2. The record shall show the vote of each member upon each question or, if failing to vote, indicate reasons for its decision.

7.8.4. Written Notification of Decision/Detailed Record

7.8.4.1. The Planning Board shall issue a written decision to the applicant giving the reasons for its decision.

7.8.4.2. A detailed record of proceedings, including the vote on each question shall be filed with the Town Clerk.

7.8.4.3. If site plan approval is granted by the Board, the applicant shall submit a revised plan reflecting any and all Conditions of Approval within 60-days of filing of the Board's decision with the Town Clerk.

7.9. GENERAL

7.9.1. Application
Prior to acceptance, all applications shall be reviewed by the Planning Board or its agent. If the Planning Board decides that an application is incomplete, it shall be deemed invalid and the fee returned. If desired, the applicant may resubmit a completed application, which shall be treated as a new application.

7.9.2. Withdrawal
An application may be withdrawn, without prejudice, by notice in writing to the Board at any time prior to the hearing by the Planning Board. After an advertisement, withdrawal, without prejudice, only by Planning Board Approval.

7.9.3. Re-application
Deleted December 14, 1995

7.10. One-Year Limitation of Grants: Extensions

7.10.1. If an approval is granted by the Planning Board, all permits necessary for the prosecution of the work shall be obtained and construction shall be commenced.
within one year from the date of filing of the Planning Board’s decision in the office of the Town Clerk.

7.10.2. It is recommended that requests for extensions be submitted in writing to the Planning Board at least 60 days prior to the expiration date of Site Plan Approval.

7.10.3. Reasonable extension of said time may be granted by the Board for good cause shown.

7.11. The Planning Board is herein authorized to assess observation fees and require applicants to have site plan improvements observed during the construction phase of the project as per Section 6.6.1. (where applicable) and “Form K2 - Observation of Site Plan Improvements”. See applicable portions of Sections 3, 4, 5, 6)

7.12. APPEAL OF DECISION

7.12.1. Any appeal of the decision of the Planning Board to any order or decision relative to Site Plan Approval shall be made in conformance with the conditions set out by the Zoning Act. All such appeals shall be conducted in accordance with the Zoning Act. (MGL Ch. 40A, Section 17)
SECTION 8.0. REGULATIONS FOR NON-RESIDENTIAL AND MIXED USE DEVELOPMENTS IN THE BUSINESS AND COMMERCIAL ZONING DISTRICTS

INTRODUCTION (Adopted under the Subdivision Control Law, Sections 81-K to 81GG inclusive, Chapter 41, Massachusetts General Laws)

8.1. Purpose
These subdivision regulations are adopted under the provisions of Chapter 41 of the Massachusetts General Laws consistent with the purpose of protecting the safety, convenience and welfare of the inhabitants of the Town of Norfolk by "regulating the laying out and construction of ways in subdivisions providing access to the several lots therein, but which have not become public ways, and ensuring sanitary conditions in subdivisions and in proper cases parks and open areas. The powers of a planning board ... under the subdivision control law shall be exercised with due regard for the provision of adequate access to all of the lots in a subdivision by ways that will be safe and convenient for travel; for lessening congestion in such ways and in the adjacent public ways, for reducing danger to life and limb in the operation of motor vehicles; for securing safety in the case of fire, flood, panic and other emergencies; for insuring compliance with the applicable Zoning ordinances or Bylaws; for securing adequate provisions for water, sewerage, drainage, underground utility services, fire, police, and other similar municipal equipment, and street lighting and other requirements where necessary in a subdivision; and for coordinating the ways in a subdivision with each other and with the public ways in the city or town in which it is located and with the ways in neighboring subdivisions". (Mass. General Laws, Chapter 41, Section 81K)

To accomplish this purpose, this Section provides design standards for non-residential and mixed use (commercial/residential) developments and redevelopments within the Business and Commercial zoning districts of the Town.

For instance, in the B-1 District (Town Center), the regulations provide design standards for redevelopment and new development which prome and enhance the traditional New England "small town" atmosphere (e.g., where buildings are located close to the street). In the C-1 District (Routes 1A/115), the regulations provide design standards for redevelopment and new development which cater to vehicular traffic, rather than pedestrian-oriented uses.

8.2. Authority
Under the authority vested in the Planning Board of the Town of Norfolk by Section 81-Q of Chapter 41 of the Massachusetts General Laws, the Board hereby adopts these amended Rules and Regulations governing the subdivision of land in the Town of Norfolk.

8.3. Basic Requirements
This section, Section 8, contains specific regulations for non-residential and mixed use developments. The following sections of Volume I of the Norfolk Rules and Regulations also remain applicable for non-residential and mixed use developments:
8.4. Design Guidelines for Streets, Roadways and Utilities

8.4.1. The subdivider shall observe all design standards for land subdivision as hereinafter provided. These standards shall be considered minimum standards and shall be varied from or waived only as provided in Section 6, "Administration".

All subdivisions shall be designed and improvements made by the applicant consistent with the requirements of Section 8.4.

Subdivisions within the B-1 District (Town Center) shall, where practicable, create or encourage land use and street design which is compatible with and encourages pedestrian traffic. Building placement, as close to the street as possible, in conjunction with display windows to the front, further enhance the pedestrian orientation of the area. In addition, shade trees shall be located to frame the streets and roadways, when mature, creating a canopy effect. Street furniture, such as benches, decorative street lighting and trash receptacles, will help to create an enhanced pedestrian environment.

Within the C-1 District (Routes 1A/115), the land use and street design shall, where practicable, be more oriented toward the automobile rather than toward the pedestrian. Adequate landscaping and pedestrian access within the site boundaries of the non-residential and mixed use developments shall be provided.
8.4.2. Design and construction shall reduce, to the extent reasonably possible, the following:

- Volume of cut and fill;
- Area over which existing vegetation will be disturbed, especially on land within 200 feet of a river, pond, or stream, or having a slope of more than 15%;
- Number of mature trees removed;
- Visual prominence of man-made elements which are not necessary for safety or orientation;
- Blockage of vistas through new development;
- Removal of existing stone walls;
- Number of driveways exiting onto existing streets;
- Alteration in ground water or surface water levels or chemical constituents;
- Disturbance of important wildlife habitats, outstanding botanical features, scenic or historic environs;
- Soil loss or instability during and after construction; and,
- Within the B-1 District (Town Center), the area devoted to motor vehicle travel.

8.4.3. Design and construction shall increase, to the extent reasonably possible, the following:

- Configuration using collector/major arterial streets to avoid traffic congestion on primary streets providing building frontages;
- Visual prominence of natural features of the landscape;
- Street layout facilitation of solar orientation of buildings;
- Use of curvilinear patterns;
- Within the B-1 District (Town Center), improve the view of, and the view from, buildings and other prominent vistas;
- Within the B-1 District (Town Center), promote active pedestrian way design so that it is generally more convenient and pleasant for most of the community to walk short distances than to drive; and,
- Within the B-1 District (Town Center), promote the creation of vista terminations.

8.4.4. Referenced Standard

A Policy on Geometric Design of Highways and Streets, by the American Association of State Highway and Transportation Officials (AASHTO), latest edition, as amended. The design guidelines herein further amend AASHTO standards insofar as they apply to the Town of Norfolk.

8.4.5. Blocks

In general, the maximum perimeter of blocks formed by streets shall not be less than 300 feet nor more than 2,000 feet. However, in the B-1 District (Town Center), the following regulation shall apply specifically to blocks:

8.4.5.1. The maximum perimeter of the blocks formed by streets shall not exceed 2,000 feet. Average perimeter of all the blocks within the subdivision, shall be 1,000 to
1,600 feet. Average block depth, within the subdivision, shall be no less than 200 feet.

8.4.6. Access and Maintenance Easements

8.4.6.1. Layout
Wherever possible, easements shall be continuous from block to block and their layout shall create as few irregularities as possible. The minimum easement width shall be 20 feet, except as otherwise required in the B-1 District (Town Center), "Within the Business Core", wherein the minimum easement width shall be 13 feet (refer to Figures 28 and 29 of Volume II of Norfolk Rules and Regulations).

8.4.6.2. Watercourses
Streams or watercourses shall be provided with an emergency/maintenance access easement conforming substantially with the line of its course, but not less than 20 feet in width centered on its midpoint. Streets or pedestrian ways, parallel to the streams or watercourses, and/or appropriate accesses may be required in connection therewith. The placement of streams or watercourses into open or covered culverts shall be kept to a minimum.

8.4.6.3. Utilities
Easements for utilities across lots shall generally follow lot lines or shall be centered on the rear or side lot lines and shall not be less than 20 feet in width, except as otherwise required in the B-1 District (Town Center), "Within the Business Core", wherein the minimum easement width shall be 5 feet or greater, in order to reduce right-of-way widths (refer to Figure 28 of Volume II of Norfolk Rules and Regulations). In this instance, the utilities may be permitted by the Planning Board to be placed in the 2-foot grassed area between the paved way and the property line, and the 3-foot tree easement immediately abutting the right-of-way. Utilities may also be permitted to be located under parking areas within the right-of-way and pedestrian ways abutting the right-of-way.

8.4.6.4. Trees
Tree easements, if necessary, shall follow and be outside of the right-of-way lines and shall be 10 feet in width and grassed, except as otherwise required in the B-1 District (Town Center), "Within the Business Core", wherein the minimum easement width shall be 3 feet and grassed (refer to Figures 28 and 29 of Volume II of Norfolk Rules and Regulations). See Norfolk Zoning Bylaws for “Pedestrian Ways and Street Trees (B1) and Street Trees (C1)”.

8.4.7. Pedestrian Ways/Sidewalks
Pedestrian ways or foot paths shall be required to provide convenient circulation or access to schools, playgrounds, shopping, churches, transportation, parks, conservation areas and/or other facilities. Such ways shall consist of an easement of at least 20 feet, including sidewalks of at least 5 feet in width (refer to Figure 29 of Volume II of Norfolk Rules and Regulations).

In the B-1 District (Town Center), "Within the Business Core", such ways shall consist of an easement of at least 11 feet immediately abutting the right-of-way, including sidewalks of at least 8 feet in width (refer to Figure 28 of Volume II of Norfolk Rules and Regulations).
Norfolk Rules and Regulations).

In the C-1 District (Routes 1A/115), for lots fronting on Routes 1A/115 in the "On Highway" area, such ways shall consist of an easement and setback of at least 70 feet in width immediately abutting the right-of-way in order to accommodate a 5-foot wide sidewalk immediately adjacent to the head-in parking area of the frontage road, on the building side (refer to Figure 36 of Volume II of Norfolk Rules and Regulations). See Norfolk Zoning Bylaws for "Pedestrian Ways and Street Trees (B1)".

Pedestrian ways within the B-1 District (Town Center) are required to include cement concrete sidewalks, trees and grass strips abutting the right-of-way, street furniture (benches and trash receptacles), and decorative street lighting. Trees within the sidewalk shall have tree grates and tree guards. Refer to Figure 30 in Volume II of Norfolk Rules and Regulations.

All sidewalks within the B1 District (Town Center) shall be a constructed of a minimum of four inches of cement concrete constructed over twelve (12) inches of processed gravel with expansion joints at thirty-two (32) foot intervals on center and control joints at four feet on center spacing. The width of sidewalk is to be a minimum of eight feet. (See M.H.D. Section 701).

8.4.8 Streets

8.4.8.1 Arrangement

The proposed streets shall be considered in their relation to existing and planned streets, topographic and geologic conditions, public convenience and safety, and for safe vehicular travel. Due consideration shall also be given by the Developer to the attractiveness of the street layout in order to obtain the maximum amenity of the subdivision and to avoid excessive cut and fills.

Long straight roadway sections shall be avoided on streets having a design speed of 30 m.p.h. or greater. The maximum length of a straight street in this instance would be 2,200 feet. Further, in the Town Center, straight roadway sections shall be terminated by a "vista termination" (i.e., a lot, building—church with spire, government building, monument/statue site, fountain) located at an intersection or at the end of streets or pedestrian ways. This vista termination shall be prominently visible from one or more streets, or ways, approaching said site.

In addition, the proposed streets shall provide for appropriate continuation of existing streets of similar design speed, and the extension of streets into adjoining land.

8.4.8.2 Access To Feeder Streets

Subdivisions, and extensions of subdivisions, serving or capable of serving 25 lots or more shall have at least two points of access to an existing through street separated by a minimum distance of 350 feet or shall have two separate passable access routes via existing primary street(s) to an existing through street where the points of access are separated by a minimum distance of 350 feet.
Reconstruction
Provision, satisfactory to the Planning Board, shall be made for the reconstruction of adjacent public ways or the addition of alternate access roads or other remedial steps in cases where the development of the subdivision may cause congestion or a danger to pedestrian or vehicular traffic on the adjacent public ways.

Street Jogs
Street jogs (i.e., the continuation of a street through an intersection where the centerline of the paved surface is not aligned on both sides of the intersection) are prohibited.

Reverse Curves
Reverse curves on streets may be separated by a straight section of road of at least 150 feet in length if a street has a design speed of 30 m.p.h. or less. This can be addressed on a case-by-case basis during the plan review process to insure that public safety is not impacted.

Level of Service
In addition to the requirements of section 3.3.2.23, "Traffic Congestion Control and Analysis", the following information shall be considered when determining "Level of Service" (LOS) flows for traffic analysis.

LOS is an expression of the quality of traffic flow. It is a commonly used measure of the effectiveness of peak hour traffic conditions, taking into account such factors as automobile and truck volumes, roadway capacity, roadway speed, grades, parking restrictions, pedestrian activity, the progression of traffic flow along an arterial, roadway types and widths, as well as anticipated delays.

LOS is designated in a range from Level "A", which is the optimal condition where roadway operating conditions are at their best, to Level "F", indicating traffic jam conditions. For instance, LOS "A" represents free-flowing conditions without stopping. LOS "B", "C" and "D" represent increasing levels of delay in approaching intersections, as indicated in the following chart (8.4.8.6.1. and 8.4.8.6.2.). Towns generally strive for operating conditions at LOS "C" or better, however, during peak flows this is not always possible. LOS "D" is generally considered as the boundary between acceptable and unacceptable traffic congestions. LOS "E" and "F" are generally associated with very long traffic congestion and should be avoided. At these low levels of service, a driver may have to wait for two or more light changes at a signalized intersection, or over a minute to enter and cross another street at an unsignalized intersection. Often it is necessary to design for LOS "E" conditions in heavily traveled or congested areas.

Signalized Intersections
LOS for signalized intersections is defined in terms of the average stopped delay in seconds per vehicle approaching the intersection for the peak 15-minute analysis period of a peak hour.
### Level of Service Criteria for Signalized Intersections

<table>
<thead>
<tr>
<th>Level of Service</th>
<th>Expected Delay (seconds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0.0 to 5.0</td>
</tr>
<tr>
<td>B</td>
<td>5.1 to 15.0</td>
</tr>
<tr>
<td>C</td>
<td>15.1 to 25.0</td>
</tr>
<tr>
<td>D</td>
<td>25.1 to 40.0</td>
</tr>
<tr>
<td>E</td>
<td>40.1 to 60.0</td>
</tr>
<tr>
<td>F</td>
<td>60.0 +</td>
</tr>
</tbody>
</table>


**8.4.8.6.2. Un-signalized Intersections**

Traffic operations at un-signalized intersections are given LOS rankings on the basis of major street turning movements into minor cross streets and the minor cross-street traffic flows. Except for turning movements blocking traffic at constricted locations, typically, major street traffic is minimally affected by minor street flows. The LOS ranking of an un-signalized intersection is determined by calculating the reserve capacity of traffic movements to and from the minor street. "Reserve capacity" is defined as the number of additional vehicles which can be safely accommodated at an un-signalized intersection for a particular traffic movement. Negative reserve capacities indicate that vehicles are (or would be) accepting gaps in traffic that are considered to be less than safe under prevailing conditions. These prevailing conditions are principally affected by the type of control (stop or yield sign), traffic speeds, and sight distances at an un-signalized intersection. Based on available gaps between vehicles on the major street, the reserve capacity of the left turns from the major street and traffic movements from the minor street approach(es) can be determined.

### Level of Service Criteria for Unsignalized Intersections

<table>
<thead>
<tr>
<th>Reserve Capacity (vehicles per hour)</th>
<th>Level of Service</th>
<th>Expected Delay</th>
</tr>
</thead>
<tbody>
<tr>
<td>400 +</td>
<td>A</td>
<td>Little or no delay</td>
</tr>
<tr>
<td>300 to 399</td>
<td>B</td>
<td>Short traffic delays</td>
</tr>
<tr>
<td>200 to 299</td>
<td>C</td>
<td>Average traffic delays</td>
</tr>
<tr>
<td>100 to 199</td>
<td>D</td>
<td>Long traffic delays</td>
</tr>
<tr>
<td>1 to 99</td>
<td>E</td>
<td>Very long traffic delays</td>
</tr>
<tr>
<td>0</td>
<td>F</td>
<td>Extreme delays/congestion</td>
</tr>
</tbody>
</table>


**8.4.8.7. Right-of-Way Widths and Alignments - Design Speed**

On all classifications of streets, the following characteristics as shown in the chart on the next page entitled, "Right-of-Way Widths and Alignments based on Design Speed", shall be the minimum acceptable (see also Figures 31 to 34 in Volume II of Norfolk Rules and Regulations):

(COMMENT: In the following chart, the minimum traveled centerline radius was 8-7)
calculated without superelevation (a superelevation of 0.04 is commonly used). This is supported by AASHTO, as noted in A Policy on Geometric Design of Highways and Streets, page 210:

Although super-elevation is advantageous for traffic operations, various factors often combine to make its use impractical in many built-up areas. Such factors include wide pavement areas, need to meet the grade of adjacent property, surface drainage considerations, and frequency of cross streets, alleys and driveways. Therefore, horizontal curves on low speed streets in urban areas are frequently designed without superelevation, counteracting the centrifugal force solely with side friction.

Therefore, it is recognized that in areas where there will be cross streets, alleys, driveways and pedestrians, these factors are not well accommodated by super-elevated streets.

<table>
<thead>
<tr>
<th>Right of Way Widths and Alignments Based on Design Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Street Classification</td>
</tr>
<tr>
<td>Design Speed (MPH)</td>
</tr>
<tr>
<td>Minimum Curb to Curb (ft)</td>
</tr>
<tr>
<td>Two Way No Parking</td>
</tr>
<tr>
<td>Two Way Parking 1 Side [1]</td>
</tr>
<tr>
<td>Two Way Parking 2 Sides [1]</td>
</tr>
<tr>
<td>Minimum Curb Radius at Intersections (ft) [3]</td>
</tr>
<tr>
<td>Traveled Way Centerline Radius (ft)</td>
</tr>
<tr>
<td>No Superelevation</td>
</tr>
<tr>
<td>Stopping Sight Distance (ft) [4]</td>
</tr>
<tr>
<td>Intersection Sight Distance (ft) [4]</td>
</tr>
<tr>
<td>Minimum Intersection Spacing Centerline to Centerline (ft)</td>
</tr>
<tr>
<td>Two Way Traffic Volume ADT/DHV</td>
</tr>
<tr>
<td>Minimum Grade (Percent)</td>
</tr>
<tr>
<td>85th Percentile Speed [MPH]</td>
</tr>
<tr>
<td>---------------------------</td>
</tr>
<tr>
<td>35</td>
</tr>
<tr>
<td>40</td>
</tr>
<tr>
<td>45</td>
</tr>
<tr>
<td>50</td>
</tr>
<tr>
<td>55</td>
</tr>
<tr>
<td>60</td>
</tr>
<tr>
<td>65</td>
</tr>
<tr>
<td>70</td>
</tr>
</tbody>
</table>

[1] On-street parking is required in the B-1 District (Town Center) or as noted in subsection 8.5.4.13 and in all cases shall be 9 ft in width in lieu of a shoulder 1 foot in width and shall be parallel to the street.

[2] The right-of-way may be reduced by the Planning Board to accommodate a reduction in the utility easement to a minimum of 2 feet in width. Refer to Figure 29, Volume II of the Norfolk Rules & Regulations.

[3] The intersection of roads with differing design speeds shall be designed in accordance with Section 8.4.9.2.

[4] For design purposes, sight distances shall be based on the 85th percentile speed, which is the speed below which 85 percent of the vehicles are traveling.

[5] At intersections where the gradient exceeds 3 percent, a leveling area of not less than 100 feet is required. Refer to subsection 8.4.10.3.

Street design speeds shall be identified on the plans. Posted speed limits shall not exceed design speeds. To facilitate the balance of pedestrians and vehicles in the B-1 District (Town Center), 20 m.p.h. design speeds are encouraged. In other areas, the following criteria shall assist in determining the appropriate design speed to be required:

- the length of the street, the number of lots being served, and the distance between buildings;
- the layout and safety concerns of the street—whether straight, curved, sloped, flat; whether paved or gravel; proximity of street light poles, stone walls or fences to the paved way;
- the design speeds of adjoining and surrounding streets;
- the number of street intersections existing and proposed in the area, including existing hidden intersections;
- the present and estimated future traffic volumes, the number of parked cars or other obstructions on the street;
- the amount of pedestrian activity in the area;
- land use interface (e.g., commercial abutting residential);
- the driver's scenic and/or historic view of existing street characteristics and amenities; e.g., existing stone walls, mature canopy trees, wetlands, historic buildings/monuments and sites of importance, rock outcroppings, etc.
- proximity to school sites, hospitals, fire and police stations and other public use buildings; and
- crosswalks, train level crossings as well as farm crossings (e.g., for
8.4.9. **Intersections**

8.4.9.1. Rights-of-way shall be laid out so as to intersect as nearly as possible at right angles. No right-of-way shall intersect any other right-of-way at less than 75 degrees. Intersections of existing and proposed streets will not be allowed at intervals of less than 350 feet between centerlines.

8.4.9.2. Property lines at right-of-way intersections shall be cut back to provide for a curb radius on the roadway as indicated in subsection 8.4.8.7, "Right-of-way Widths and Alignments -- Design Speed". The minimum curb radius at the intersection shall be 20 feet or greater depending on Design Speed, and road configuration shall be sufficient to accommodate "W8-50" vehicle turning movements. In instances where streets of differing design speeds intersect, the smaller curb radius requirement shall be required.

8.4.9.3. Both the horizontal and vertical sight distance and stopping sight distance at intersecting roadways within a subdivision and at subdivision roadways intersecting with existing roadways shall be provided as indicated in subsection 8.4.8.7, "Right-of-way Widths and Alignments -- Design Speed".

8.4.9.4. Horizontal and vertical stopping sight distances in all directions at existing and proposed intersections shall be noted on the plans.

8.4.10. **Vertical Alignment**

8.4.10.1. All changes in grade shall be connected by vertical curves of sufficient length to afford adequate sight distances as indicated in the following chart:

<table>
<thead>
<tr>
<th>Design Speed (mph)</th>
<th>Stopping Sight Distance (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>90</td>
</tr>
<tr>
<td>20</td>
<td>125</td>
</tr>
<tr>
<td>25</td>
<td>150</td>
</tr>
<tr>
<td>30</td>
<td>200</td>
</tr>
</tbody>
</table>

8.4.10.2. For crest vertical curves, the length in feet shall be computed from the following formulas:

where: 
\[ L = \text{length of vertical curvature} \]
\[ S = \text{sight distance} \]
\[ A = \text{algebraic difference in grades, percent.} \]
\[ h_1 = 3.5 \text{ feet (eye of driver)} \]
\[ h_2 = 2.0 \text{ feet (height of object)} \]

For sag vertical curves, the length in feet shall be computed from the following formulas:
When $S$ is less than $L$, then
\[ \frac{L}{S} = 25 \] over 3.55
When $S$ is greater than $L$, then
\[ \frac{L}{S} = \frac{L}{25} \] over 3.55

where:
- $L$ = length of vertical curvature
- $S$ = sight distance
- $A$ = algebraic difference in grades, percent.

Minimum length of a sag or crest vertical curve shall be 100 feet. All vertical curves shall show the following on the profiles:

- P.V.I. Station and elevation
- High point or low point station and elevation

8.4.10.3. Where the proposed grade of any street meeting another existing or proposed street, whether said other street is within or adjacent to the subdivision, exceeds 3%, a leveling area shall be provided for a distance of not less than 100 feet, measured from the edge of right of way of the other street. The grade of the centerline or of any vertical curve tangent shall not exceed a negative 1%.

8.4.11. Cul-de-sacs
Cul-de-sacs should be created to accommodate a WB-50 vehicle as specified by AASHTO. A cul de sac pavement shall have a minimum outer radius of 47' and a maximum inner radius of 20'.

8.4.11.1. The paved portion of cul de sacs, whether temporary or permanent, shall not be

8.4.11.2. than 250 feet in length and not exceed 500 feet in length measured from the farthest end of the paved turnaround to the intersection (centerline) of the nearest intersecting through street.

8.4.11.2.1. Any easement in any turnaround shown on a plan approved under the Subdivision Control Law other than an easement appurtenant to a lot abutting the turnaround, shall terminate upon the approval and recording of a plan showing extension, and the recording of a certificate by the Planning Board of the construction of such extension.

8.4.11.2.2. Cul de sacs, whether permanent or temporary, shall provide a turn around at the closed end(s) having a property line diameter of 120 feet; a radius at the outer edge of traveled way of 47 feet, and a landscaped island in the center. Islands shall be designed to allow for proper emergency vehicle and snowplow access. A "Not a Through Street" sign shall be provided at the entrance to a cul-de-sac and its location shown on the subdivision plan.

In the case of a temporary turn around, the plan shall show an easement(s) to accommodate the specifications of this subsection. The frontage of lots abutting a temporary turnaround shall be measured along the permanent street right of way and not the "bulb" of the cul de sac. See detail (Figure 43). Any easement in any turnaround shown on a plan approved under the subdivision control law other than an easement appurtenant to a lot abutting the turnaround, shall
terminate following (a) the approval and recording of a plan showing extension of the roadway, and (b) the recording of a certificate by the Planning Board of the construction of such extension.

8.4.11.2.3. **Provisions for Future Through Access**

All cul de sacs, except those determined by the Planning Board to be permanent in nature, shall include a right-of-way running from the closed end(s) of the cul de sac to the terminus points as described below for purposes of providing future through access. The width of said right-of-way shall be equal to the right-of-way width of the cul de sac street. Said right of way shall be laid out and construction plans included as part of the subdivision plan. The land in the right of way shall be turned over to the Town of Norfolk as a gift of land prior to release of any lot in the subdivision.

The terminus point of the right-of-way shall be both to any adjacent Town-owned conservation land, and as follows:

a. first, to any street which abuts the property line of the parcel being subdivided, other than the street which forms the intersection with the paved portion of the cul de sac;

b. second, if (a) is not applicable, to any right of way or street easement of at least 20 feet right of way width which abuts the property line of the parcel being subdivided;

c. third, if (a) and (b) are not applicable, to the point on the property line of the parcel being subdivided which is closest to the closed end of any cul de sac existing on any adjacent parcel;

d. fourth, if (a), (b) and (c) are not applicable, to the point on the property line of the parcel being subdivided which is closest to any existing through street on any adjacent parcel, other than the street which forms the intersection with the parcel portion of the cul de sac;

e. fifth, if (a), (b), (c), and (d) are not applicable, to the point on the property line of the parcel being subdivided which is closest to any adjacent "landlocked" (i.e., without adequate frontage) parcel; and

f. sixth, if (a), (b), (c), (d) and (e) are not applicable, to the point on the property line of the parcel being subdivided which is closest to the largest adjacent buildable parcel of land.

For purposes of this regulation, references to the point "closest" shall exclude wetlands. The easement created by this section shall, to the extent practicable, be laid out to exclude lakes, ponds, wetlands, woodlands, water courses and steep terrain.

8.4.11.2.4. An easement for access and maintenance shall also be provided from all cul-de-sacs to any adjacent Town-owned conservation land. Such easements shall have a minimum width of 20 feet.
8.4.11.2.5. Cul de sacs shall not have a grade of greater than 4% for the last 100 feet at the closed end.

8.4.11.2.6. Cul de sac Plantings
The applicant shall submit a landscape plan for the central portion of a cul de sac. The following are permitted:

- Trees
- Planting with ground cover and spreading mulch between plants for weed control;
- Planting perennial grass by either sod or seed;
- Planting ornamental shrubs of a type acceptable to the Board;
- Retaining existing vegetation with the approval of the Board;

The standards of the American Nurserymen Association and the specifications of the Associated Landscape Contractors of Massachusetts shall apply to landscaping subject to these regulations.

8.4.11.3.1. Standards and Specifications
The standards of the American Nurserymen Association and the specifications of the Associated Landscape Contractors of Massachusetts shall apply to landscaping subject to these regulations.

8.4.11.4. Provisions for Future Through Access [Easements]
An easement shall be provided from the cul-de-sac to the terminus points as described below for purposes of providing future through access. The width of said easement shall be equal to the right-of-way width of the cul-de-sac street, but in no event less than 20 feet wide. Easements serving Town Conservation Land shall be 20 feet wide.

8.4.11.4.1. The terminus point of the easement(s) shall be both to any adjacent Town-owned conservation land, and as follows:

(a) first, to any street which abuts the property line of the parcel being subdivided, other than the street which forms the intersection with the paved portion of the cul-de-sac;

(b) second, if (a) is not applicable, to any right-of-way or street easement of at least 20 feet right-of-way width which abuts the property line of the parcel being subdivided;

(c) third, if (a) and (b) are not applicable, to the point on the property line of the parcel being subdivided which is closest to the closed end of any cul-de-sac existing on any adjacent parcel;

(d) fourth, if (a), (b) and (c) are not applicable, to the point on the property line of the parcel being subdivided which is closest to any existing through street on any adjacent parcel, other than the street which forms the intersection with the parcel portion of the
cul-de-sac:

(e) fifth, if (a), (b), (c) and (d) are not applicable, to the point on the property line of the parcel being subdivided which is closest to any adjacent "land-locked" (i.e., without adequate frontage) parcel; and

(f) sixth, if (a), (b), (c), (d) and (e) are not applicable, to the point on the property line of the parcel being subdivided which is closest to the largest adjacent buildable parcel of land.

For purposes of this regulation, references to the point "closest" shall exclude wetlands. The easement created by this section shall, to the extent practicable, be laid out to exclude lakes, ponds, wetlands, woodlands, water courses and steep terrain.

8.4.12. Half Streets

8.4.12.1. A half street is a portion of a proposed street running astride a common boundary line, said portion being within a subdivision under consideration.

8.4.12.2. Half streets shall be prohibited.

8.4.13. Sight Distances at Intersections

Horizontal and vertical sight distances in all directions at intersections shall be noted on the plans. Sight distances at intersections shall be provided as indicated in subsection 8.4.8.7, "Right-of-way Widths and Alignment -- Design Speed". Refer also to the "Visual Corridor Clearance" requirement in the Norfolk Zoning Bylaw section pertaining to the B1 District (Town Center).

8.4.14. Stopping Sight Distance

Stopping sight distance is the sum of two distances: the distance traversed by the vehicle from the instant the driver sights an object necessitating a stop to the instant the brakes are applied and the distance required to stop the vehicle from the instant brake application begins. For all stopping sight distance calculations, the height of the driver's eye is considered to be 3.5 feet above the road surface and the height of the object is considered to be 2.0 feet above the road surface in accordance with AASHTO policy. Stopping sight distances shall be provided as indicated in subsection 8.4.8.7, "Right-of-way Widths and Alignment -- Design Speed".

8.4.15. Frontage Road Design and Location

A Frontage Road, 24 feet in width, shall be constructed on all lots in the "On Highway Area" of the C-1 District (Routes 1A/115), in accordance with the requirements of the Zoning Bylaw and the construction standards for a primary street as noted in subsection 8.5.4.3, "Minimum Depth Requirements". Refer to Figure 36 of Volume II of Norfolk Rules and Regulations. The location of drives and streets on the same and opposite sides of a highway shall be in accordance with the applicable sections of the Norfolk Zoning Bylaw, "Location of Drives and Streets on Same Side of Highway" and "Alignment of Drives and Streets on Opposite Sides of
8.4.15.1. Cross-easements
Cross-easements shall be required by abutting landowners to permit traffic to traverse from one property to another.

8.4.15.2. Maintenance
It shall be the responsibility of the property owners to maintain frontage roads and pedestrian ways for safe vehicular and pedestrian travel at all times and in all weather conditions. If, in the opinion of the Police Chief, a hazard to public safety exists for failure to perform such maintenance, the Town reserves the right to undertake such maintenance and backcharge the owner reasonable costs thereof.

8.4.15.2.1. Signage
Stop signs shall be provided at all points of egress, drives and major entrances to the highway areas. Additional traffic signs may be required as deemed necessary by the Board for public safety.

8.4.16. Street Layout in the B-1 District (Town Center)
Streets shall be laid out within the Town Center District so that no occupied lot is more than 1,500 feet from a primary street, or more than 450 feet from a secondary street, as measured along the street frontage. Street layouts shall be generally rectilinear with "deformations" as may be physically proper to adapt streets to topographic or other natural conditions, and to generally ensure vista terminations at street intersections.

8.5. Street, Roadway and Utility Construction Standards

8.5.1. Basic Requirements
The subdivider shall install all of the improvements itemized herein unless waived in writing by the Board. All work done under this section shall be done under the direction of the Planning Board.

8.5.2. No aforementioned Bond or Covenant shall be released until full approval in writing of all work done under this section is received by the Planning Board from its designated Inspector/Agent. (See also Section 3.4.)

8.5.3. Referenced Standards

Typical Cross Sections (Appendix C) and Typical Details (Appendix D) of these Subdivision Rules and Regulations.
8.5.4. Streets and Roadways

8.5.4.1. Minimum Widths and Depths
The following minimum improvement standards shall be required (see typical cross sections).

8.5.4.2. Minimum Width Requirements (in feet)

<table>
<thead>
<tr>
<th>Street Classification</th>
<th>Right-of-Way</th>
<th>Paved Traveled Way</th>
<th>Grass Strip***</th>
<th>Sidewalks in Grass Strip****</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive</td>
<td>160**</td>
<td>50*</td>
<td>13*</td>
<td>2 @ 9</td>
</tr>
<tr>
<td>Local Street</td>
<td>160**</td>
<td>50*</td>
<td>14*</td>
<td>2 @ 8</td>
</tr>
<tr>
<td>Secondary Street</td>
<td>160**</td>
<td>50*</td>
<td>16*</td>
<td>2 @ 9</td>
</tr>
<tr>
<td>Primary Street</td>
<td>160**</td>
<td>50*</td>
<td>16*</td>
<td>2 @ 9</td>
</tr>
</tbody>
</table>

Cross slope for traveled way, grass strips, and sidewalks shall be 1/4-inch per foot.

* Based on one-way street with no on-street parking.
** Based on two-way street with no on-street parking.
*** Includes berm, edging or curb. Grass strips in the Town Center may be reduced to a 2-foot minimum by the Planning Board in order to reduce right-of-way widths.
**** In the Town Center, "Within the Business Core", sidewalks are required to be a minimum 8 feet in width and outside of the right-of-way, within the pedestrian way/walkway.

8.5.4.3. Minimum Depth Requirements (in inches)

<table>
<thead>
<tr>
<th>Street Classification</th>
<th>Processed Gravel</th>
<th>Dense Graded Crushed Stone for Base</th>
<th>Binder Course</th>
<th>Finish Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive</td>
<td>8</td>
<td>--</td>
<td>2</td>
<td>11/2</td>
</tr>
<tr>
<td>Local Street</td>
<td>12</td>
<td>4</td>
<td>21/2</td>
<td>11/2</td>
</tr>
<tr>
<td>Secondary Street</td>
<td>15</td>
<td>4</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

8-16
<table>
<thead>
<tr>
<th>Street Classification</th>
<th>Processed Gravel</th>
<th>Binder Course</th>
<th>Finish Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive</td>
<td>12</td>
<td>1/2</td>
<td>1</td>
</tr>
<tr>
<td>Local Street</td>
<td>12</td>
<td>1/2</td>
<td>1</td>
</tr>
<tr>
<td>Secondary Street</td>
<td>12</td>
<td>1/2</td>
<td>1</td>
</tr>
<tr>
<td>Primary Street</td>
<td>12</td>
<td>1/2</td>
<td>1</td>
</tr>
</tbody>
</table>

At accessways/driveways to all commercial and industrial sites, provide an 18-inch gravel base with 3 inches of binder and 1-1/2 inches finish course from the traveled way to the property line. A tack coat of bituminous material shall be applied by mechanical means immediately prior to installation of the top course of pavement.

Parking lots shall be constructed with a 12-inch gravel base, and with 2 inches each of binder and finish courses. There shall be a minimum 24-foot wide paved accessway/driveway connecting linked parking areas.

8.5.4.4. Clearing and Grubbing

8.5.4.4.1. Clearing and grubbing shall be done in accordance with the relevant provisions of Section 101 of the M.H.D. Standard Specifications and Town of Norfolk Bylaws.

8.5.4.4.2. All excavation and embankment areas shall be first cleared of all stumps, brush, roots, boulders, debris, and like materials and disposed of off site. All loam and topsoil within the excavation/embankment areas shall be removed and stockpiled for reuse within the subdivision. Stump and brush removal shall be in accordance with most recent Board of Health and DEP regulation and/or policy.

8.5.4.4.3. Excavations

Excavations shall be done in accordance with the relevant provisions of Section 120, Excavation, of the M.H.D. Standard Specifications and Article VIII - Land Use and Resource Protection of the Town of Norfolk Bylaws.

When 500 cubic yards or more of materials are to be removed from the site or relocated within the site, an Earth Relocation/Removal Permit is required. See also Appendix A - Earth Relocation/Removal for requirements and instructions.

8-17
8.5.4.5. **Embankments**

8.5.4.5.1. Construction of all embankment fill shall be done in accordance with the relevant provisions of Sections 120, 150, and 170 of the M.H.D. Standard Specifications and Town of Norfolk Bylaws and in accordance with the procedures described herein.

8.5.4.5.2. Fill material shall be approved suitable existing material obtained from on site excavations and shall consist of solid, sound mineral aggregate. It shall be free from deleterious, organic, elastic or foreign matter and shall be adequately graded for satisfactory compaction into a stabilized soil structure.

8.5.4.5.3. Embankments shall not be constructed with material from rock or boulder excavations.

8.5.4.5.4. Off site fill material shall be gravel borrow conforming to M.H.D. Material Specification M1.03.0, Type b. A certificate of compliance indicating the gradation and source of material shall be submitted and approved prior to delivery of any material to the site.

8.5.4.5.5. Fill for embankments shall be placed in uniform layers not exceeding 12 inches in loose measurement depth and compacted to not less than 95% of the maximum dry density as determined by the Standard AASHTO Test Designation T99 compaction test Method C at optimum moisture content. No fill material shall be placed, spread or compacted while the ground or fill material is frozen, thawing, or during inclement weather conditions. Fill material having excessive moisture content shall not be compacted until the material has been aerated by grading, harrowing or other methods to remove excessive moisture.

8.5.4.6. **Gravel Base**

8.5.4.6.1. The sub-grade shall be brought to proper grade and compacted as shown on the profiles and in accordance with the approved cross section. No gravel base shall be placed until all earthwork and utility installation work has been completed.

8.5.4.6.2. Gravel for roadway base and sidewalk base shall be spread and compacted in layers not exceeding 6 inches in compacted measurement depth and in accordance with the approved cross section. Material shall be compacted to not less than 95% of the maximum dry density as determined by the Standard AASHTO Test Designation T99 compaction test Method C at optimum moisture content.

8.5.4.6.3. Construction of gravel base and binder courses shall be done in accordance with the relevant provisions of Sections 401 and 405 of the M.H.D. Standard Specifications except the compacted gravel base layers should be placed in lifts not exceeding 6 inches in thickness.

8.5.4.6.4. Graded gravel for roadway sub-base and sidewalk base shall conform to M.H.D.
Material Specification M1.03.1. A certificate of compliance indicating the gradation and source of material shall be submitted and approved prior to delivery of any material to the site.

8.5.4.7. Dense Graded Crushed Stone For Roadway Base

8.5.4.7.1. Construction of all dense graded crushed stone for roadway base shall be done in accordance with the relevant provisions of Section 402, of the M.H.D. Standard Specifications and in accordance with the procedures described herein.

8.5.4.7.2. Processed gravel for base shall conform to M.H.D. Material Specification M.01.7. A certificate of compliance indicating the gradation and source of material shall be submitted and approved prior to delivery of any material to the site.

8.5.4.7.3. the applicant shall provide as-built survey grades prior to installation of finished binder course. This survey shall consist of obtaining center line and both gutter elevations at 50-foot stations. In areas where the roadway gradient and cross-slope do not agree with what is shown on the approved plans, the applicant shall reconstruct and resurvey those areas until the proper gradient and/or cross-slope has been obtained. No bituminous concrete shall be placed and compacted until written authorization has been obtained from the Planning Board or its engineer on the Form K.

8.5.4.8. Bituminous Concrete Pavement, Temporary Berm, Sidewalks, and Driveways

Materials and construction methods of the bituminous concrete pavement, tack coat, sidewalks, and driveways shall conform with the relevant provisions of Sections 460 and 701 of the M.H.D. Standard Specifications and in accordance with the procedures described herein; however, sidewalks in the B-1 District (Town Center) shall be constructed of cement concrete as described in Section 8.4.7. A tack coat of bituminous material shall be applied by mechanical means immediately prior to installation of top course of pavement.

Pavement shall be placed and compacted in two courses, binder and finish. All driveways and curb cut ramps shall slope toward the roadway and end at the roadway gutter line. Driveways shall commence their downward slope to the roadway from the right-of-way/street line and the ramps from the sidewalk. No driveways or ramps which slope away from the roadway will be accepted. Edging or curb (as applicable) shall be continued into the driveway/ramp cut to prevent erosion at the cut. See driveway detail in Town of Norfolk Regulations for Street Excavations as most recently amended. In the B1 District (Town Center) the driveway entrances from the street shall be constructed of bituminous concrete to the edge of sidewalk. That portion of the driveway over the sidewalk shall be constructed of cement concrete as described in Section 8.4.7.

A temporary berm shall be constructed on the roadway binder course to direct stormwater runoff to the closed drainage system until a permanent curb/berm is installed. The temporary berm shall be a temporary cape cod berm.

8.5.4.9. Sloped Granite Edging and Vertical Granite Curbing

Sloped granite edging shall be required on both sides of all traveled ways, except
in the B-1 District (Town Center), where vertical granite curbing shall be required. Materials and construction methods shall conform with the relevant provisions of M.H.D. Standard Specification M9.04.1 and M9.04.2 and in accordance with the procedures described herein. Certificates of Compliance shall be required in accordance with subsection 5.17, "Certificates of Compliance".

8.5.4.10. Curbing and Edging

8.5.4.10.1.1. Sloped granite edging shall be 4-foot minimum lengths, except where shorter length is dictated by radius. It shall be set after the binder course is placed and before the top course is placed on a compacted gravel bedding at a 45-degree angle with a 7-inch reveal. The nose of the granite shall be set in a concrete base approximately 6 inches square which shall abut against the binder course. The top course of paving shall cover the concrete and key the granite in place. Joints shall be mortared. A temporary cape cod berm shall be installed at the time of binder course installation and shall be continuously maintained in working order until the final course of bituminous concrete is installed.

8.5.4.10.2. Vertical granite curbing shall be upright 4-foot minimum lengths, except where shorter length is dictated by radius. The finished side shall face the traveled way, with a reveal of 6 inches. Installation of the vertical granite curbing shall precede the installation of the bituminous concrete binder course.

8.5.4.10.3. Materials and construction methods shall conform with the relevant provisions of Section 501 of the M.H.D. Standard Specifications and in accordance with the procedures described herein.

8.5.4.11. Cross Sections

8.5.4.11.1. Cross sections shall be drawn for all proposed roadways and existing roadways to be reconstructed. They shall be drawn at 50-foot stations and at all proposed culverts at a scale of 8 feet to the inch horizontally and vertically.

8.5.4.11.2. Sufficient space is to be provided between cross sections to allow the proposed roadway template to be drawn without overlapping the adjoining sections.

8.5.4.11.3. The following shall be shown on the sections:

- Edges of existing roads, drives, walks, swamps, lawns, etc.
- Existing walls, poles, hydrants, mail boxes, etc.
- All existing trees 12 inches and over noting the diameter, species of tree, station and offset.
- Indicate elevation, station, and description of wells, cesspools, and on site septic systems, and a description and elevation of sills of buildings.
- Existing culverts shall be shown as long dash lines.
- Water elevations shall be shown as a dashed line with elevation and a date taken.
- Approximate elevation of the top of rock for above and below existing grade.
- The profile grade and right-of-way lines are to be noted on each
template.
- The template shall consist of the finished grade and the proposed subgrade lines.
- Stations shall be located below the cross section and increase going up the plan sheet.
- Guide vertical elevations and horizontal distances in both directions shall be shown on each cross section.
- A summary table shall be shown with the cross sections showing the cubic yards between the stations for cut, fill, muck, and rock excavation, and gravel borrow. A total for each category shall be shown along with the final amount of cubic yards of earth to be removed from the site or gravel borrow soils to be brought into the site.
- Limits of rock and muck excavation.
- Planimeter readings are to be shown to the right of each template using the abbreviations: C = Cut, F = Fill, M = Muck Excavation, R = Rock Excavation, GB = Gravel Borrow.

8.5.12. Sidewalks on Existing Roadways
Sidewalks shall be required in the applicant's property along all existing public ways which immediately abut the proposed subdivision for the purpose of ensuring safe and adequate pedestrian access to and from the subdivision. Sidewalks shall not be interrupted by steps or abrupt changes in level greater than 1/2-inch. All sidewalk surfaces shall be non-slip.

In general, sidewalks on existing roadways shall be constructed with minimal change to the natural rural appearance of the street. Sidewalks shall follow the natural contours of the land and preserve both trees and shrubs to the extent possible to comply with the following guidelines.

To facilitate review of the proposed development by the appropriate authorities, the applicant shall stake the sideline of the proposed walkway at 50-foot intervals.

8.5.12.1. Width
The width of the sidewalk shall be 5 feet in the C-1 District (Routes 1A/115), however, within the B-1 District (Town Center), "Within the Business Core", the walkway width shall be a minimum of 8 feet.

8.5.12.2. Clearing and Grubbing
All excavation areas shall first be cleared of stumps, brush, roots, boulders, debris and like materials which shall then be disposed of off site. All loam and topsoil within the excavation area shall be removed and stockpiled for reuse.

See also Earth Removal Regulations - Appendix A.

The removal of all trees shall be in compliance with the Shade Tree Act and the Scenic Roads Act where applicable. Trees not protected under these acts if in living viable condition and having a trunk in excess of 12 inches in diameter measured 4 feet above grade, shall be retained wherever possible. In addition, trees of special importance because of species or distance from other trees shall
be field marked by the Planning Board or its agent indicating in each case whether the tree should be removed or preserved.

8.5.4.12.3. **Bituminous Paving**
Bituminous concrete pavement for sidewalks and driveways shall be installed to conform with the relevant provisions of Sections 460 and 701 of the M.H.D. standard specifications and in accordance with procedures described therein; however, sidewalks in the B-1 District (Town Center) shall be constructed of bituminous concrete cement. At least one course of bituminous concrete pavement for sidewalks shall be installed to conform with generally accepted engineering practice. Whenever there is an intersection of sidewalks with streets, public ways, driveways or parking lots, each shall blend to a common level.

8.5.4.12.4. **Grass Strip**
A 25-foot grass strip separating the sidewalk from the road shall be installed wherever possible consistent with the walkway design procedures described herein (refer to Figure 29 of Volume II of Norfolk Rules and Regulations). However, grass strips "Within the Business Core" of the B-1 District (Town Center) are required to be parallel and along the frontage line for a width of 3 feet, as noted in Figure 30 of Volume II of Norfolk Rules and Regulations. Refer to Section 8.5.6, "Street Trees", which describes the placement of street trees.

8.5.4.12.5. **Drainage**
The paved surface shall be pitched a minimum of 1/4-inch per foot in the direction of existing drainage facilities to provide adequate disposal of surface water including control of erosion, flooding, and standing water on adjacent lands.

8.5.4.13. **On-Street Parking Regulations**
On-street parking shall be required in the B-1 District (Town Center), "Within the Business Core", unless otherwise prohibited in specific areas by the Board of Selectmen or Chief of Police. On-street parking may be permitted elsewhere at the applicant's discretion subject to Planning Board approval. The specifications for parallel parking, including handicapped parking, in this area are to be in accordance with Section 8.4.8.7., "Right-of-Way Widths and Alignments", and Figure 37 of Volume II of the Norfolk Rules and Regulations. On-street parking spaces shall not be permitted over crosswalks. In the area of crosswalks, the pedestrian way/sidewalk and associated curb ramp shall extend the width of the adjacent parking spaces (referred to as a "neckdown") such that the parking spaces appear "receded" from the traveled portion of the street (refer to Figure 37 as noted above, and also to subsection 8.5.9.5).

8.5.5. **Retaining Walls**
Retaining walls shall be installed where required and deemed necessary by the Planning Board. They shall be cemented stone masonry conforming to the relevant provisions of Section 685 of the M.H.D. Standard Specifications, Construction Standards, and in accordance with the procedures described herein. Maximum visible height of retaining walls shall be 4 feet, unless waived by the Planning Board in the event that terracing, plantings and other decorative elements have been incorporated within the design of the retaining wall.
Further, terracing, plantings and other decorative elements are encouraged to be incorporated within the design of the retaining wall.

8.5.6.

Street Trees
Trees shall be planted at 35-foot intervals on both sides of all streets within the subdivision and on the one side of the adjacent existing public way that is contiguous with the subdivision. Trees shall be located within the existing right of way, except in the B-1 District, where they shall be planted within the tree easement. Tree placement shall also be coordinated with street light placement in the 3-foot wide tree easement in the B-1 District (Town Center), "Within the Business Core", as shown in Figure 38 of Volume II of Norfolk Rules and Regulations. Trees shall also be permitted within the pedestrian way easement within the sidewalk, and must be accompanied with tree grates and tree guards as approved by the Planning Board, and as shown in Figure 39 of Volume II of Norfolk Rules and Regulations.

Shade trees reinforce the rural character of the Town, and provide relief of parking areas and architectural mass. In order for shade trees to achieve "stately proportions", they shall be at least 12 feet in height and 3 inches in caliper when planted, and must reach a minimum mature height of 25 to 35 feet. In the B-1 District (Town Center), the lowest branches shall be at least 6 feet above ground level in order to accommodate pedestrian activity. All trees shall be planted no later than one month after installation of the first course of bituminous concrete, and shall be guaranteed for one year after street acceptance. A written copy of said guarantee shall be provided to the Planning Board prior to street acceptance. The species of trees to be used must be approved by the Norfolk Tree Warden with written verification submitted to the Planning Board and are to be selected from the following tree list:

- Acer pseudoplatanus - Sycamore Maple
- Acer rubrum - Red Maple and varieties
- Acer saccharum - Sugar Maple and varieties
- Carpinus betulus - European Hornbeam
- Cercidiphyllum japonicum - Katsur tree
- Ginkgo biloba - Ginkgo variety
- Liquidambar styraciflua - Sweetgum var.
- Quercus palustris - Pin Oak
- Quercus rubra - Red Oak
- Zelkova serrata - Japanese Zelkova
- Sophora japonica - Japanese Pagod tree
- Fraxinus pennsylvanica - Green Ash var.
- Pyrus calleryana - Redspire Callery Pear
- Gleditsia triacanthos inermis - Thornless Honey locust var.
- Platanus acerifolia - Bloodgood London Planetree
- Tilia cordata - Littleleaf Linden and varieties
- Tilia tomentosa - Silver Linden

Or such other tree variety, as appropriate, and as may be approved by the Planning Board.
There shall be at least three species of tree planted on each street. At all street or driveway intersections, trees (and shrubs) shall be set back a sufficient distance from the intersection so that they do not present a sight distance/safety hazard. This regulation shall be considered in conjunction with 8.5.4.12.4, "Grass Strip".

Tree wells shall be required for the protection of existing trees where deemed necessary by the Tree Warden. Materials and planting methods shall conform to the relevant provisions of Section 771 of the M.H.D. Standard Specifications (including but not limited to staking and wiring of all trees), the Norfolk Tree Warden and in accordance with the procedures described herein. The applicant shall provide written verification to the Planning Board that the Norfolk Tree Warden has reviewed and approved the street tree planting plan.

Shrubs, as approved by the Board and the Tree Warden, shall also be chosen and located within the tree easement to fulfill a specific function of screening and ground cover. Consideration shall be given to the effects of sun exposure or shade, snow plowing and winter salt spray. Shrubs shall be no smaller than 18 to 24 inches in height for woody types. The species of shrubs shall be chosen from the following species, unless otherwise specified in writing by the Tree Warden:

- Taxus spp. - Yew, various
- Rhododendron spp. Rhododendron, various
- Vaccinium corymbosum - Highbush Blueberry
- Amelanchier canadensis - Shadbush
- Viburnum spp. - Viburnum, various
- Ligustrum spp. - Privet, various
- Juniperus spp. - Juniper, various
- Forsythia spp. - Forsythia, various
- Rosa spp. - Rose, various
- Spiraea spp. - Spirea, various

or other shrub varieties, as appropriate, and as may be approved by the Planning Board.

8.5.7. Loaming and Seeding
The removal of topsoil from the development area will not be allowed. Not less than 6 inches of good quality loam shall be placed within the right-of-way, cut and fill areas, easements, lots, etc. Materials and construction methods for loam borrow and topsoil shall conform to the relevant provisions of Section 751 of the M.H.D. Standard Specifications and in accordance with the procedures described herein. Materials and construction methods for seeding shall conform to the relevant provisions of Section 765 of the M.H.D. Standard Specifications and in accordance with the procedures described herein. Seed for the grass strips shall conform to M.H.D. Material Specification M6.03.0, Grassplots and Islands. After loam and seed has been placed in retention/detention basins and slopes equal to or steeper than 3:1, a jute mesh matting or an approved equal shall be installed in accordance with the manufacturer's recommendations for slope stabilization. All loaming and seeding shall be installed no later than one month after installation of the first course of bituminous concrete.

8-24
8.5.8. **Street Lights**
The applicant shall be responsible for furnishing and erecting street lights at locations approved by the Planning Board (refer also to subsection 8.5.8.1, "Location of Decorative Street Lights"). Street light fixtures and standards shall conform to fixtures and standards as most recently installed in the Town of Norfolk at the time of application, except within the B-1 District (Town Center), "Within the Business Core", wherein the applicant shall install the decorative street light as identified in Figure 40 of Volume II of the Norfolk Rules and Regulations.

8.5.8.1. **Location of Decorative Street Lights**
Decorative street lights within the B-1 District (Town Center), "Within the Business Core", shall be located within the 3-foot tree easement at 75-foot intervals, as approved by the Planning Board. Placement shall be coordinated with abutting properties to ensure the 75-foot interval is maintained, and with street trees "Within the Business Core" as noted in Figure 38 of Volume II of Norfolk Rules and Regulations.

Metal Halide (MH) lamps and fixtures shall be used as they offer the best balance between ideal color, energy efficiency and cost. A light source of 100 watts (for the pole height of 10 feet), shall be required.

8.5.9. **Guard Rails**

8.5.9.1. Guard rails shall be required along roadways as per AASHTO's Guide for Selecting, Locating, and Designing Traffic Barriers, 1977, and where, in the opinion of Planning Board, it is necessary for public safety.

8.5.9.2. Materials and construction methods shall conform to the relevant provisions of Section 601 of the M.H.D. Standard Specifications and in accordance with the procedures described herein. Posts shall be pressure treated wood, rectangular in sections 6 inches by 8 inches, chamfered on top, and at least 6 feet 3 inches long with flat tops and butts, conforming to M.H.D. Material Specification MB.07.08.2. Wooden rail elements shall conform to AASHTO and M.H.D. specifications, and as noted below. Guard rails shall not be ramped. "Weathering steel" guard rails conforming to M.H.D. and AASHTO standards shall also be permitted for streets.

8.5.9.3. **Wood Posts and Rails**

8.5.9.3.1. Wood posts and rails are to be used only on very low speed roads and parking areas, and within the B-1 District (Town Center) on streets having a design speed of 15 and 20 m.p.h., and are to be pressure treated. Prior Planning Board approval is required for use of this type of barrier.

8.5.9.3.2. Wood posts shall conform to the materials and construction methods as described in subsection 8.5.9.2. Spacing of posts shall be a maximum of 6 feet 3 inches center to center.

8.5.9.3.3. Wood rails shall be 4 inches by 8 inches and of a length where joints are to be located only at the posts. Rails shall be of the same species and stress grade as
the wood posts. Rails shall be treated in accordance with M.H.D. Material Specification M8.07.08.2. Two 5/8-inch carriage bolts shall be used to fasten the rail to the post and counter sunk. Nuts shall be installed so that they cannot be backed off. The number of rails, either one or two, to be used for the wood guard rail shall be determined by the Planning Board.

8.5.9.4. **Curb cut Ramps**
Curb cut ramps must be provided in curbed areas that have sidewalks. The location of the curb cut opening and ramp must be carefully coordinated with respect to the pedestrian crosswalk lines, if any. This planning must ensure that the ramp opening (at the fully depressed curb) is situated within the parallel boundaries of the crosswalk markings.

All ramps must comply with the Americans with Disabilities Act Regulations as most recently revised.

8.5.9.4.1. Ramps for the handicapped are not limited to intersections and marked crosswalks, and ramps shall also be provided at other appropriate or designated points of pedestrian concentration, such as loading islands, midblock pedestrian crossings, and locations where pedestrians could not otherwise recognize the proper place to cross the roadway. Because non-intersection pedestrian crossings are generally unexpected by the motorist, warning signs shall be installed and adequate visibility provided by prohibiting parking.

8.5.9.4.2. Ramps for the handicapped, including sloping sides, shall have a textured non-skid surface. The textured surface shall be roughened in the direction of the slope. This texture not only provides a measure of safety for the user but also warns a blind person of the presence of the ramp.

8.5.9.4.3. Ramps shall be designed in accordance with Volume II of Norfolk Rules and Regulations. Slope of the ramp shall not exceed 1:12 and shall blend to meet the roadway gutter with a ½-inch maximum lip for drainage. Where sidewalks are too narrow to install a straight-line curb cut at a slope of 1:12, the sides of the curb cut shall slope at 1:12.

8.5.9.4.4. The width of curb cuts shall be no less than 3 feet, not including sloped sides. Sides of curb cuts shall extend not less than 24 inches at the curb. There shall be no vertical curbing at the side of the curb cut.

8.5.9.5. **Crosswalks**
Street and pedestrian way design shall minimize pedestrian crossings on primary streets. Crosswalks shall be required on all sides of all street intersections, and along streets as required by the Board. In the B-2 District (Town Center), "Within the Business Core", crosswalks shall be coordinated with on-street parking areas, and spaced every 10 parking spaces (or approximately 218 feet as measured to the center of "neckdowns"), as shown in Figure 37 of Volume II of Norfolk Rules and Regulations, and as described in subsection 8.5.4.13.

8.5.9.5.1. Crosswalks at intersections of streets and along streets shall be 4 feet in width and shall be painted with yellow reflectorized vertical striping as shown in Figure 41 of
8.5.9.5.2. Any raised islands in the traveled path of a crosswalk shall be cut through level with the street, or shall have curb cuts at both sides, and a level area at least 4 feet in width in the part of the island intersected by the crosswalk.

8.5.10. **Street Furniture**
Benches and garbage receptacles shall be required within the pedestrian way/walkway as approved by the Planning Board. In the B-1 District (Town Center), "Within the Business Core", one decorative bench per 75 feet of frontage, or portion thereof, shall be required, and coordinated with abutting properties. Garbage receptacles shall be required adjacent to every-other decorative street light, as noted in **Figures 42 and 30** of Volume II of Norfolk Rules and Regulations. Benches and garbage receptacles shall be permanently mounted.

8.6. **Reference to Additional Local Standards**
Refer to Norfolk Zoning Bylaw Sections pertaining to zoning for the B1 and C1 Districts for additional local standards.
APPENDIX A - SUPPLEMENTAL REQUIREMENTS:

FEE SCHEDULE - APPLICATION, REVIEW, AND INSPECTION FEES

The Norfolk Planning Board fees shall consist of (1) Application Fees and (2) Review Fees as set forth below. The administrative requirements of the Review Fees are described in Regulation 2.5. The Application Fee and Initial Review Fees shall both be paid at the time of application. Application Fees shall be payable to "Town of Norfolk"; Review Fees shall be payable to "Norfolk Planning Board Review Account." Performance Inspections shall be payable to both “Planning Board Review Account” and "Norfolk Inspection Fee Account". Any additional costs incurred by the Planning Board are to be paid in full by the applicant.

Applicants are entitled to receive interest on the balance of their Review Accounts. To receive such interest, however, applicants must submit a completed form entitled "Client Group Account, Client Account Application - Certification of Taxpayer Identification Number”.

A. Pre-Submission Review

Application Fee: No Charge.
Review Fee: No Charge.

B. 81P Plan - Plan not requiring subdivision approval.

Application Fee:
1. Each plan submitted is $200
2. Each plan resubmitted is $50 per re-submittal.

C. Subdivision Plans – No additional charge for a Stormwater Management Permit when filed concurrent with subdivision plans.

1a. Preliminary Plans

Application Fee: $600 plus $120 per lot for each lot over five lots
Review Fee: $2,500 plus $120 per lot

1b. Each Revision to Preliminary Plans Under Review

Processing Fee: $300
Review Fee: $1,250 plus $60 per lot
2a. **Definitive Subdivision Plans**

   Application Fee: $1,000 plus $200 per lot for each lot over five lots

   Review Fee: $3,000 plus $200 per lot

2b. **Each Revision to Definitive Plans Under Review**

   Processing Fee: $750

   Review Fee: $1,500 plus $200 per lot

3a. **Amendment, Modification, or Revision of Approved Definitive Plan**

   Application Fee: $750

   Review Fee: $2,000

3.b. **Each Revision to Amendment, Modification, or Revision of Approved Definitive Plan**

   Processing Fee: $375

   Review Fee: $1,000

4. **Approved Subdivision Work**

4.a. **Snow Plowing of Subdivision Streets**

   Based on length of roadway(s) and rate per mile as established semi-annually by the Highway Department.

4.b. **Cleaning/Maintenance of Subdivision Streets**

   Based on length of roadway(s), number of catch basins/drainage basins etc., and rate as may be established semi-annually by the Highway Department.

5. **Bonding, Including Reduction and Release Requests, Inspections, and Estimates**

   Application Fee: No charge.

   Review Fee: $1,000 plus $50 per lot

6. **Performance Inspections/Observations**

   Application Fee: No Charge.

   Review Fee: [Both fees are applicable]
a. Planning Board Consulting Engineer Observation Fee - $2,000 plus $4 per linear foot of roadway.

b. Town Highway Department Inspection Fee - $.50 per linear foot of roadway with a minimum fee of $500

7. Earth Relocation/Removal Permit

   Application Fee: $500
   Review Fee: $1,000

D. Site Plan Approvals - No additional charge for a Stormwater Management Permit when filed concurrent with site plan

1. Application Fee: $750 plus $.10 for every square foot of proposed gross floor area over 5,000 square feet to a maximum of $6,000 (for square footage)

   Review Fee: $2,500 plus $.10 for every square foot of proposed gross floor area

2. Each Revision to Site Plans Under Review

   Processing Fee: $375
   Review Fee: $1,000

3. Performance observations for site receiving site plan approval

   Application Fee: None
   Site Observation Fee: $2,000

E. Acceptance Plans for Subdivisions/Site Plans

   Application Fee: No Charge.
   Subdivision street: $1,000 per street plus $.1 per linear foot of roadway
   Site Plan (as built plans): $1,000 per site plan application

F. Special Permits

   See Special Permit Rules and Regulations for special permit fees. (See below.)
G. Extraordinary Expenses

The above fees are subject to revision in the event the Planning Board incurs extraordinary expenses in the review of any plan or inspections/observations including, but not limited to, retention basin and drainage, retaining walls, earth removal and fill, engineering or land surveying, impact analyses, advertising, mailing, or inspection/observation fees. The applicant will be required to reimburse the Town for such additional charges which result from associated professional services.

H. Form of Payment

- Application Fees: Payable to "Town of Norfolk"
- Review Fees: Payable to "Norfolk Planning Board Review Account"
- Observation Fee: Payable to "Planning Board Observation Account"
- Inspection Fee: Payable to "Norfolk Inspection Fee Account"

Payment for all submissions, reviews, and inspections are to accompany the submittal and request. Payments are to be made by check. All invoices shall be paid within (30) days of receipt.

I. Assessment for Late Payment

A late charge of 1-1/2% simple interest shall be charged monthly for bills not paid within 30 days.

J. Shade Tree and Scenic Roads Act Hearing

See separate fee schedule for Shade Tree and Scenic Roads Act Hearing Applications. (Currently $250)

K. Stormwater Permit Application (SMP)

Application fee payable to the Town of Norfolk in the amount of $750 with an additional processing fee of $375 per revision to plan under review. If the SMP is filed concurrent with a site plan or subdivision plan, there is no application fee. Applicant is responsible for review costs.
SPECIAL PERMIT APPLICATION/REVIEW FEES ARE AS FOLLOWS:

ARTICLE VII
SCHEDULE OF FEES

SECTION 1: APPLICATION FEES

Special Permit ........................................................................................................... $750.00
   Plus $75 per each additional special permit request pertaining
e to the same site.

*Open Space Preservation Special Permit ............................................................... $1,000.00

*Planned Multi-Lot Development Special Permit .................................................... $750.00

Extension request for Special Permit - unadvertised................................................ $200.00

Addendum and changes/modifications and/or relief from conditions ....................... $500.00

Repetitive Petition ................................................................................................. $250.00

PLEASE NOTE: In addition to the application fee, the applicant will be required to reimburse the Town
for any and all costs incurred by the town to have an engineer/consultant review
the proposal as deemed necessary by the Planning Board. (Please note Article V,
Section 2, Rules and Regulations)

SECTION 2: APPLICATION REVIEW FEES - SPECIAL MUNICIPAL ACCOUNT

   a. When reviewing an application for Special Permit, the Board may determine that the
   assistance of outside consultants is warranted due to the size, scale, or complexity of a
   proposed project, or because of a project’s potential impacts. The Board may require
   that applicants pay a “review fee” consisting of the reasonable costs incurred or
   expected to be incurred by the Board for the employment of outside consultants
   engaged by the Board to assist in the review of an application.

   b. In hiring outside consultants, the Board may engage engineers, planners, lawyers, urban
   designers or other appropriate professionals who can assist the Board in analyzing a
   project to ensure compliance with all relevant laws, bylaws, and regulations.

Funds received by the Board pursuant to this section shall establish a special account for
this purpose. Expenditures from this special account may be made at the direction of
the Board without further appropriation. Expenditures from this special account shall be
made only in connection with the review of a specific project or projects for which a
review fee has been or will be collected from the applicant. Failure of an applicant to pay a review fee shall be grounds for denial of the application.

c. Review fees may only be spent for services rendered in connection with the specific project from which they were collected. Accrued interest may also be spent for this purpose. At the completion of the Board’s review of a project, any excess amount in the account, including interest, attributable to the project, shall be repaid to the applicant or the applicant’s successor in interest. For the purpose of this regulation, any person or entity claiming to be an applicant’s successor in interest shall provide the Board with documentation establishing such succession in interest.

d. Any applicant may take an administrative appeal from the selection of the outside consultant to the Board of Selectmen. The grounds for such an appeal shall be limited to claims that the consultant selected has a conflict of interest or does not possess the minimum required qualifications. The minimum qualifications shall consist either of an educational degree in, or related to, the field at issue or a related field.

The required time limit for action upon an application by the Board shall be extended by the duration of the administrative appeal. In the event that no decision is made by the Board of Selectmen within one month following the filing of the appeal, the selection made by the Board shall stand.

PLEASE NOTE: The above regulation is designed to implement the provisions of Chapter 593 of the Acts of 1989, Chapter 44, as amended.

SECTION 3: SPECIAL MUNICIPAL ACCOUNT - REVIEW FEE SCHEDULE

a. The Special Municipal Account Review Fees are to be made in connection with the review of a specific project or projects for which a review fee has been or will be collected from the applicant (Article VII Section 2). The Review Fees may be requested of the applicant in the determination of the Board that outside consultants are required and are in addition to the general fees set forth for an Application for hearing before the Board (Article VII, Section 1).

The failure of an applicant to pay a review fee, when requested, shall be grounds for denial of the application. (Article V, Section 2.c.).

b. The Review Fee Schedule as outlined in Section 3.d. of Article VII, shall be considered the initial deposit for the purposes of establishing the Special Revolving Account for the project. Any additional costs associated with the review of the project shall be borne by the applicant. The Review Fee Schedule shall be amended as necessary with the concurrence of the Board Members and shall become effective on the stamped date of the Town Clerk.

c. All Review Fees shall be payable to the “Planning Board Review account” and shall be deposited with the Town Treasurer into a special revolving account for the project.

d. REVIEW FEE SCHEDULE:
Special Permits.................................................$500 per request per lot

*PMLD Special Permits...........................................$500 plus $150 per lot

*Open Space Preservation Special Permits.......................$1,500 plus $150 per lot

*See also Norfolk Planning Board Rules and Regulations for the Subdivision of Land and Site Plan Approval fee schedule as most recently amended if part of a subdivision plan (preliminary and/or definitive) and/or involves Site Plan Approval.
EARTH RELOCATION/REMOVAL (Red. MGL C40-S17 and Town of Norfolk Bylaws)

See also Section 3.3.2.16. and other relevant sections of these Rules and Regulations.

A. Definitions. For the purpose of this section:
   (1) "Earth" shall include soil, loam, sand, and gravel;
   (2) "Board" shall mean the Planning Board of Norfolk.

B. Basic Requirements.

(1) Earth which is to be removed in compliance with the requirements of a definitive subdivision plan approved by the Norfolk Planning Board shall be subject to the requirements listed herein.

(2) No earth shall be moved, stripped, stockpiled, or removed from any subdivision street right of way or easement being constructed within the Town to another parcel either within or without the Town except as set forth herein. Exceptions to this prohibition may be made by the Planning Board after a finding that each of the following criteria have been met:

(a) That there has been approval and endorsement of the Definitive Plan by the Planning Board.

(b) The proposed earth to be removed is the absolute minimum required to remove a physical hardship.

(c) The removal of earth will not cause a nuisance, or be of detriment to the surrounding areas or along the route of transportation, or cause an adverse effect. An earth removal operation shall be deemed to cause an adverse impact to the Town or to property in the vicinity of the site if it:

   (1) may reasonably be expected to significantly increase surface water flow off the site or to result in any adverse impact on surface water or public or private drinking water wells;

   (2) may produce noise, dust, or other effects that may be detrimental to the amenities, aesthetics or normal use of property in the neighborhood;

   (3) may result in a change in topography and cover that will render development of the site in accordance with the approved site plan more difficult or costly;

   (4) may have an adverse effect on public health or safety or on the health or safety of persons living, working or otherwise present in the neighborhood; or

   (5) may unduly frustrate the long term recreation and open space planning objectives of the Town.

(3) In no case shall earth removal exceed five months of operation or removal of more than
10,000 cubic yards of material.

(4) Any earth removal from the subdivision lots must comply with the Norfolk Bylaws which are administered by the Board of Selectmen. Generally, this applies to the removal of earth involving more than five hundred (500) cubic yards.

(5) The area excavated during the duration of the Permit shall be restored to conform to the natural state of the area and surrounding areas by grading, retopsoiling, topsoiling, and planting so that all scars resulting from the removal operation are eliminated insofar as is possible.

(6) The depth of any excavation shall not be made lower than ten (10) feet above the annual high water table.

C. Application for the removal of earth in conjunction with Definitive Plan Approval.

All applications for Definitive Plan Approval shall be accompanied by exhibits and documentation deemed necessary by the Planning Board for the proper review of the issuance of an earth removal approval. Exhibits or documentation shall include but not be limited to the following:

(1) The street location of the proposed excavation, the proposed depth of excavation and the elevation of the highest annual high water table, as determined by the test pits and soil boring.

(2) Name and address of the legal owner of the land in question.

(3) Name and address of petitioner, if different.

(4) Names and addresses of all owners of property within five hundred (500) feet of property lines of the land.

(5) Ten (10) copies of a plan of the land prepared by a Registered Engineer or Land Surveyor drawn to scale of forty (40) feet to the inch including: land boundaries, adjacent streets, location of all structures upon the land, original topography by two (2) foot contours, proposed final topography by two (2) foot contours, the limits of proposed earth moving operations, the depth of loam at forty (40) foot intervals along original contour lines, drainage provisions to be made after completion of the earth removal project.

The plan shall bear appropriate cross sections and a computation of the volume of material to be moved, stockpiled, stripped or removed, certified by the person preparing the plan.

(6) A statement estimating the quantity of material to be moved.

(7) The period of time during which operations are proposed.

(8) The routes of vehicles to be used.

(9) The proposed form of Bond to be used.
(10) Statement of plans for the disposal of rock, tree stumps, and other waste materials, and for the drainage site and excavation during and after the removal operations. For operations within five hundred (500) feet of wetlands, the application shall include a statement of plans for the protection of any portion of an underground water source or supply including without limitation to springs, wells, underground reservoirs or aquifers.

(11) The area to be stripped of vegetation at any one time, that is, prior to being re-seeded and having trees and shrubs planted.

(12) A public hearing shall be held on each application for approval under this provision as a part of the public hearing on the Definitive Subdivision Plan.

(13) The Board shall be and hereby is authorized to set a reasonable charge in addition to the normal application fee and review fee for definitive plans if such earth removal warrants an additional charge.

(14) The engineering fees shall be paid by the applicant.

(15) Zoning District

(16) Plans of the proposed use with the necessary documentation to demonstrate the need for earth removal, and that the proposed removal constitutes the minimum removal required.

D. Requirements for Approval

(1) In approving the removal of earth, the Planning Board may impose reasonable requirements which shall constitute a part of the subdivision approval and which may include but not be limited to: grading, seeding and planting, construction of necessary fencing and other protection against nuisances, methods of removal, hours of operation, the duration of the removal operation, routes of transportation of material removal, control of drainage, disposition of waste incident to the operation, providing of adequate vegetation. Any conditions so imposed by the Board shall be listed on the definitive plan prior to endorsement of the plan and approval of the covenant by the Board.

(2) The Board shall require suitable bond or other security adequate to assure compliance with the provisions of the approval to remove earth.

(3) No permit shall be issued until the owner of the site has granted to the Town an easement over the land in question and conveys to the Town the legal right to enter upon said land with equipment and personnel for the purpose of making acceptable restoration in accordance with the approved restoration plan in the event of default of such restoration specific in the permit by the owner or his contractual representative.

(4) The permit shall ensure that the Basic Requirements of Section B are or will be met.

(5) No work shall begin until the Planning Board receives written notice that earth removal is scheduled to begin at least two but no more than four weeks following the date of this notice.
E. Monitoring/Reporting

The applicant shall be responsible for filing a weekly report from a designated earth relocation/removal monitor. This report shall include a daily count of the number of truck loads, amount of material, verification of street sweeping, measures taken to ensure no offsite migration of materials including airborne dust, etc.

Prior to commencement of removal the applicant shall provide sufficient bond to cover the cost of monitoring the operation should the applicant default on providing monitoring. These reports will be included in the estimate of probable construction cost which will be the basis of the required bond.

F. Termination of Permit

Any earth removal operation in a subdivision shall expire upon the termination date stated in the approval.

G. Validity

The invalidity of any section of provisions of this regulation shall not invalidate any other section or provision thereof.

H. Penalty

(1) Any person, firm, or corporation willfully violating, disobeying, or refusing to comply with any of the provisions of this provision shall be prosecuted under the terms of General Laws, Chapter 40, Section 21, Clause 17, and shall be subject to a fine of not more than fifty (50) dollars for the first offense, not more than one hundred (100) dollars for the second offense, and not more than two hundred (200) dollars for any subsequent offense. Each day of non-compliance shall constitute a separate offense. The Planning Board may revoke or suspend permission of any person, firm, or corporation holding permission to remove earth if such Person, Firm, or corporation violates, disobeys, or fails to comply with any of the provisions of this approval.

BONDING PROCEDURE

1. After a covenant has been duly executed, the developer informs the Board in writing that he would like to have a bonding figure set. Along with this written request, the developer submits:
   a. Form Ks (Subdivision Observation Report(s) which has been signed by the appropriate agents as denoted on the Form K.
   b. Duration of the bonding (usually the time by which the subdivision improvements must be completed by as noted in the Covenant).

2. The Board asks its Consultant/Agent to make a site observation.

3. The Board’s Consultant/Agent prepares an observation report and prepares a bonding estimate consisting of the costs to complete all subdivision improvements including but not limited to acceptance plans with a minimum 25% contingency costs added to the
total estimate.

4. The applicant is sent a copy of the Board's Consultant/Agent observation report and bonding estimate and letter from Board providing bond amount.

5. Developer/Applicant submits to the Planning Board office:
   a. A completed bonding form making sure that the signature of the developer and that of the officer of the security company are notarized on the appropriate form. Bank passbook accounts are to be in the name of the Town of Norfolk for _____________ (name of subdivision) otherwise it will not be accepted. Bank passbooks are held at the Town of Norfolk Treasurer's office for safekeeping.
   b. A letter from the security company on its letterhead stating that it will not release any monies until written authorization has been received from the Norfolk Planning Board. The signature of the security company officer preparing this letter must be notarized. (See Sample A.)

6. Lots are released for the bonded section(s) of the subdivision provided:
   a. The applicant submits a properly completed Lot Release Form.
   b. All earth removal operations have been completed and affected area restored as per Earth Removal Regulations.
   c. The bituminous binder course is in place and observation has been conducted with the Form K signed signing approval by the Board's Consultant/Agent.
   d. Guardrails that are required have been installed and observation has been conducted and the Form K has been signed off signing approval of the installation by the Board's Consultant/Agent.
   e. Sight lines have been achieved with all trees and brush that are required to be removed at existing Town ways shall be removed, after required Shade Tree Scenic Roads Act Hearings, and all traffic control devices installed.
   f. The land in the right of way of future roadways has been deeded to the Town as a gift of land.

7. It is the developer/applicant's responsibility to file the Lot Release Form at the Registry of Deeds. No building permits will be issued until a copy of the Lot Release Form verifying its filing at the Registry of Deeds has been provided both the Planning Board and the Building Commissioner.

NOTE: All bonding documentation is reviewed and approved by the Treasurer for the Town of Norfolk before the Planning Board takes any action relative to same.

PROCEDURE FOR REDUCTION IN BONDING

When the developer determines that a reduction in bonding for improvements in his subdivision is in order, he must follow this procedure:
1. Developer informs the Board in writing he is requesting a reduction in bonding. The request is accompanied by an up to date Form K for each subdivision street.

2. The Board asks its Consultant/Agent to make a site observation.

3. The Board’s Consultant/Agent prepares an observation report and prepares a bonding estimate consisting of the costs to complete all subdivision improvements including but not limited to acceptance plans with a minimum 25% contingency added to the total estimate.

4. The applicant is sent a copy of the Board’s Consultant/Agent observation report and bonding estimate and letter from Board establishing new bond amount.

5. Determination is made as to whether a new bonding form and letter from the security company need to be submitted. If new form and/or new letter are required, applicant shall submit same using the following procedure:

   a. Submit completed bonding form making sure that the signature of the developer and that of the officer of the security company are notarized on the appropriate form. Bank passbook accounts are to be in the name of the Town of Norfolk for _________________ (name of subdivision), otherwise it will not be accepted. Bank passbooks are held at the Treasurer’s office for safekeeping.

   b. A letter from the security company on its letterhead stating that it will not release any monies until written authorization has been received from the Norfolk Planning Board. The signature of the security company officer preparing this letter must be notarized. (See Sample A)

6. After all paperwork has been completed and approved by the Board, it sends a letter to the security company releasing the appropriate amount of bonding.

NOTE: All bonding documentation is reviewed and approved by the Town Treasurer for the Town of Norfolk before the Planning Board takes any action relative to same.
SAMPLE A: LETTER FROM SECURITY COMPANY

{BANK'S LETTERHEAD}

Date

Town of Norfolk Planning Board
One Liberty Lane
Norfolk, MA 02056

Re: ____________________________ Subdivision Name, Name of Developer
______________________________ Subdivision Street(s), Station Numbers

Dear Board:

Please be advised that we have opened and are holding funds in the enclosed passbook account #12345-678 in the names of Haven Realty Trust, Robert Jones, Trustee or the Town of Norfolk Planning Board, Town of Norfolk for ____________________________ (name of subdivision).

The (name of security company, bank) agrees not to release or reduce funds until receiving prior written approval from the Norfolk Planning Board. Moreover, during the time the Norfolk Planning Board holds passbook account #12345-678 as security, we hereby agree not to exercise any "setoff" or claim against this money/security and it will not honor any claim for a lost passbook from any other party other than the Town of Norfolk.

Sincerely yours,

BANK/SECURITY COMPANY NAME

By
Name of Officer and Title

(Notary Public Seal) The above mentioned has appeared before me on
and acknowledged same to be his free act and deed.

Notary Public

My commission expires:
# APPENDIX B

## FORMS

<table>
<thead>
<tr>
<th>FORM</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Application for Endorsement of Plan Believed Not To Require Approval</td>
</tr>
<tr>
<td>A-1</td>
<td>Determination That Subdivision Approval Is Not Required</td>
</tr>
<tr>
<td>A-2</td>
<td>Determination That Subdivision Approval Is Required</td>
</tr>
<tr>
<td>B</td>
<td>Application for Approval of A Preliminary Plan</td>
</tr>
<tr>
<td>B-1</td>
<td>Certificate of Approval of A Preliminary Plan</td>
</tr>
<tr>
<td>B-2</td>
<td>Certificate of Disapproval of A Preliminary Plan</td>
</tr>
<tr>
<td>C</td>
<td>Application for Approval of Definitive Subdivision Plan</td>
</tr>
<tr>
<td>C-1</td>
<td>Certificate of Approval of A Definitive Plan</td>
</tr>
<tr>
<td>C-2</td>
<td>Certificate of Approval With Modifications of A Definitive Plan</td>
</tr>
<tr>
<td>C-3</td>
<td>Application for Approval of Modification to Approved Definitive Subdivision Plan</td>
</tr>
<tr>
<td>C-3A</td>
<td>Certificate of Amendment, Modification or Recission of Approval of a Definitive Subdivision Plan</td>
</tr>
<tr>
<td>C-4</td>
<td>Certificate of Disapproval of A Definitive Plan</td>
</tr>
<tr>
<td>D</td>
<td>Designer's Certificate</td>
</tr>
<tr>
<td>E</td>
<td>Not used</td>
</tr>
<tr>
<td>F</td>
<td>Covenant</td>
</tr>
<tr>
<td>G-1</td>
<td>Performance Secured By Deposit Of Money</td>
</tr>
<tr>
<td>G-2</td>
<td>Performance Secured By A Surety Company</td>
</tr>
<tr>
<td>G-3</td>
<td>Performance Secured By A Bank Passbook</td>
</tr>
<tr>
<td>G-4</td>
<td>Performance Secured By Lender's Agreement</td>
</tr>
<tr>
<td>H</td>
<td>Release of Lots</td>
</tr>
<tr>
<td>K</td>
<td>Subdivision Inspection Checklist</td>
</tr>
<tr>
<td>K-1</td>
<td>Not used</td>
</tr>
<tr>
<td>K-2</td>
<td>Site Plan Observation/Inspection Checklist</td>
</tr>
<tr>
<td>L</td>
<td>Conveyance of Easements And Utilities</td>
</tr>
<tr>
<td>M</td>
<td>Control Form for Processing Subdivision Plan and Construction</td>
</tr>
<tr>
<td>M-1</td>
<td>Control Form and Preliminary Plan Checklist</td>
</tr>
<tr>
<td>M-2</td>
<td>Control Form and Definitive Plan Checklist</td>
</tr>
<tr>
<td>N</td>
<td>Not used</td>
</tr>
<tr>
<td>N-1</td>
<td>Request for Extension - Preliminary Plan</td>
</tr>
<tr>
<td>N-2</td>
<td>Request for Extension - Definitive Plan</td>
</tr>
<tr>
<td>O</td>
<td>Site Plan Approval Application and Checklist</td>
</tr>
<tr>
<td>P</td>
<td>Storm Drainage Flow Analysis (omitted)</td>
</tr>
<tr>
<td>Q</td>
<td>Earth Removal/Relocation Permit Application</td>
</tr>
<tr>
<td></td>
<td>Town of Norfolk Good Standing Form</td>
</tr>
</tbody>
</table>
FORM A

PLANNING BOARD, TOWN OF NORFOLK, MASSACHUSETTS

APPLICATION FOR ENDORSEMENT OF PLAN
BELIEVED NOT TO REQUIRE APPROVAL

_________________________ 20 __________

To the Planning Board of the Town of Norfolk, Massachusetts

The undersigned wishes to record the accompanying plan and requests a determination and endorsement by said Board that approval by it under the Subdivision Control Law is not required. The undersigned believes that such approval is not required for the following reasons: [Circle as appropriate]

1. The accompanying plan is not a subdivision because the plan does not show a division of land.

2. The division of the tract of land shown on the accompanying plan is not a subdivision because every lot shown on the plan has frontage of at least such distance as is presently required by the Norfolk zoning bylaw under Section __________ which requires _______ feet for erection of a building on such lot; and every lot shown on the plan has such frontage on:
   a. a public way or way which the Town Clerk certifies is maintained and used as a public way, namely __________________________, or
   b. a way shown on a plan theretofore approved and endorsed in accordance with the subdivision control law, namely ___________________________ on ______________________, and subject to the following conditions ___________________________; or
   c. a private way in existence on March 31, 1954, the date when the subdivision control law became effective in the Town of Norfolk having, in the opinion of the Planning Board, sufficient width, suitable grades, and adequate construction to provide for the needs of vehicular traffic in relation to the proposed use of the land abutting thereon or served thereby, and for the installation of municipal services to serve such land and the buildings erected or to be erected thereon, namely ___________________________

3. The division of the tract of land shown on the accompanying plan is not a “subdivision” because it shows a proposed conveyance/other instrument, namely ___________________________ which adds to/takes away from/changes the size and shape of, lots in such a manner so that no lot affected is left without frontage as required by the Norfolk zoning bylaw under Section __________ which requires _______ feet.

4. The division of the tract of land shown on the accompanying plan is not a subdivision because two or more buildings, specifically ___________________________ buildings were standing on the plan prior to March 31, 1954, the date when the subdivision control law went into effect in the Town of Norfolk and one of such buildings remains standing on each of the lots/said buildings as shown and located on the accompanying plan. Evidence of the existence of such buildings prior to the effective date of the subdivision control law is submitted as follows:

________________________________________________________________________
________________________________________________________________________

Applicant's Name: ___________________________________________ (please print)
Form A - Page 2 of 2

Other Reasons or comments: (See MGL Chapter 41 Section 81L)

The plan is described as follows:
Title of Plan __________________________ Date _______ By______________________
Assessors Map _______ Block _______ Lot _______ Zoning District ____________________
Showing ____________________________

The owner’s title to the land is derived under deed from __________________________, dated
__________________, 20____, and recorded in ______________ Registry of Deeds, Book _____, Page
_______; or Land Court Certificate of Title No. ______________, registered in ______________ District
Book _______, Page ________, and ____________________________ Assessor’s Book ________, Page ________.

Received by Norfolk Town Clerk:

Date _______________ Applicant’s signature __________________________

Time _______________ Title/Company __________________________

Signature _______________ Applicant’s Address: __________________________

number street

________________________ City/Town ___________________ State Zip

Applicant’s Phone # __________________________

Owner’s Signature: __________________________

(if the applicant is not the owner)

Owner’s Address: __________________________

number street

________________________ City/Town ___________________ State Zip

Owner’s Phone # __________________________

Endorsement by Norfolk Planning Board:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

Date: _______________
FORM A-1

PLANNING BOARD TOWN OF NORFOLK, MASSACHUSETTS

DETERMINATION THAT SUBDIVISION APPROVAL IS NOT REQUIRED

_________________________________________ 20____

Town Clerk
Town of Norfolk
Norfolk, Massachusetts

Re: Application for endorsement of plan believed not to require subdivision approval.

Applicant: ____________________________________________

Applicant's Address: _____________________________________

You are hereby notified that the Planning Board has determined that the plan entitled:

________________________________________________________________________

submitted by the above applicant on ______________, 20____ accompanied by a Form A
application for determination by the Planning Board dated ______________, 20____, has been endorsed
by the Planning Board as follows: "Norfolk Planning Board Approval under Subdivision Control Law Not Required"

because:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

Norfolk Planning Board:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

Duplicate copy sent to applicant: ________________________________
FORM A-2
PLANNING BOARD TOWN OF NORFOLK, MASSACHUSETTS
DETERMINATION THAT SUBDIVISION APPROVAL IS REQUIRED

[Text]

Town Clerk
Town of Norfolk
Norfolk, Massachusetts

Re: Application for endorsement of plan believed to require subdivision approval.

Applicant:

Applicant's Address:

You are hereby notified that the Planning Board has determined that the plan entitled:

[Text]

submitted by the above applicant on [Date], 20___, accompanied by a Form A application for

determination by the Planning Board dated [Date], 20___, requires approval under the

Subdivision

Control Law and it has been determined that the plan shows a subdivision for the following reasons:

[Text]

Norfolk Planning Board:

[Text]

Duplicate copy sent to applicant:

[Text]
FORM B
PLANNING BOARD, TOWN OF NORFOLK, MASSACHUSETTS
APPLICATION FOR APPROVAL OF A PRELIMINARY PLAN

To the Planning Board of the Town of Norfolk, Massachusetts

The undersigned, being the applicant as defined under Chapter 41, Section 81-L, for approval of a proposed subdivision shown

On a plan entitled

________________________________________________________________________

By ______________________________________ dated ______________, 20____ and described as follows:

________________________________________________________________________

located

number of lots proposed _______ total acreage of tract _________, said applicant hereby submits said plan as a Preliminary subdivision plan

in accordance with the Rules and Regulations of the Norfolk Planning Board and makes application to the Board for approval of said plan.

The undersigned's title to said land is derived from

________________________________________________________________________

by deed dated ____________________ and recorded in the Norfolk District Registry of Deed Book ________, Page ________,

registered in the Norfolk Registry District of the Land Court, Certificate of Title No. ________________.

Received by Norfolk Town Clerk:

Date ___________________________ Applicant's Signature ___________________________

Time ___________________________ Title/Company ________________________________

Signature ________________________ Applicant's Address: __________________________

Applicant's Phone #: __________________________

Applicant's Fax #: __________________________

Owner's Signature if the applicant is not the owner: __________________________

Received by Board of Health: Owner's Address:

Date ___________________________ __________________________

Time ___________________________ __________________________

BOH Signature __________________________

Owner's Phone #: __________________________

Owner's Fax #: __________________________
FORM B-1
PLANNING BOARD, TOWN OF NORFOLK, MASSACHUSETTS
CERTIFICATE OF APPROVAL OF A PRELIMINARY PLAN

_________________________ 20_________

Town Clerk
Town of Norfolk
Norfolk, Massachusetts

It is hereby certified by the Planning Board of the Town of Norfolk, Massachusetts, that a duly called and properly posted

meeting of said Planning Board, held on _____________________, 20 _______ , it was voted to approve/approve with modifications a preliminary subdivision plan entitled:

____________________________________________________

by: _____________________________________________ dated:

_________________________

submitted by:
__________________________________________________

address:________________________________________________

by: _____________________________________________

owned
by: _____________________________________________ address:________________________________________________

originally filed with the Planning Board on _____________________, 20 _______ , concerning property
located
____________________________________________________

and showing __________ proposed lots with the following modifications:


A true copy, attest:

_________________________

Clerk, Norfolk Planning Board

_________________________ Norfolk Planning Board

Duplicate copy sent to applicant on: ____________________________
FORM B-2

PLANNING BOARD, TOWN OF NORFOLK, MASSACHUSETTS

CERTIFICATE OF DISAPPROVAL OF A PRELIMINARY PLAN

__________________________________________, 20____

Town Clerk
Town of Norfolk
Norfolk, Massachusetts

It is hereby certified by the Planning Board of the Town of Norfolk, Massachusetts, that a duly called and properly
posted meeting of said Planning Board, held on ________________, 20____, it was voted to disapprove a preliminary
subdivision plan entitled: __________________________________________________________

by: ________________________________________ dated: _________________________________

submitted by: ___________________________ address: ________________________________

owned by: _______________________________ address: ________________________________

originally filed with the Planning Board on _____________________, 20______, concerning property
located

______________________________________________________________________________

and showing _______ proposed lots for the following reasons:

______________________________________________________________________________

______________________________________________________________________________

______________________________________________________________________________

______________________________________________________________________________

______________________________________________________________________________

______________________________________________________________________________

______________________________________________________________________________

______________________________________________________________________________

A true copy, attest:

______________________________________________________________________________

Clerk, Norfolk Planning Board

Duplicate copy sent to applicant: ____________________________________________
FORM C

PLANNING BOARD, TOWN OF NORFOLK, MASSACHUSETTS

APPLICATION FOR APPROVAL OF DEFINITIVE SUBDIVISION PLAN

______________________________________, 20____

To the Planning Board of the Town of Norfolk, Massachusetts

The undersigned, being the applicant as defined under Chapter 41, Section 81-L, for approval of
a proposed subdivision shown on a plan entitled

______________________________________, dated ______________________, 20______

and described as follows: located __________________________, number of lots
proposed ______, total acreage of tract _____________________, hereby submits said plan as a
DEFINITIVE plan in accordance with the Rules and Regulations of the Norfolk Planning Board and
makes application to the Board for approval of said plan.

The undersigned's title to said land is derived from

____________________________________, dated ______________________, and recorded in the Norfolk District Registry of Deeds Book

_______, Page __________, registered in the Norfolk Registry District of the Land Court,
Certificate of Title No. _____________; and said land is free of encumbrances except for the
following:

____________________________________

Said plan has ( ) has not ( ) evolved from a preliminary plan submitted to the Board on

_________________________, 20______, and approved (with modifications) ( ).
(disapproved) ( ) on ______________________, 20______.

The undersigned hereby applies for the approval of said DEFINITIVE plan by the Board, in belief
that the plan conforms to the Board's Rules and Regulations.

Received by Norfolk Town Clerk:

Date______________________ Applicant's Signature _______________________

Time______________________ Title/Company ______________________________

Signature__________________ Applicant's Address: ________________________

Applicant's Phone # __________________________

Applicant's Fax # __________________________
FORM C - PAGE TWO
APPLICATION FOR APPROVAL OF DEFINITIVE SUBDIVISION PLAN

Owner's Signature if the applicant is not the owner: ________________________________

Received by Board of Health:

Owner's Address: ________________________________
Date __________________________________________
Time __________________________________________
BOH Signature ________________________________
Owner's Phone # ________________________________
Owner's Fax # ________________________________
FORM C-1
PLANNING BOARD, TOWN OF NORFOLK, MASSACHUSETTS
CERTIFICATE OF APPROVAL OF A DEFINITIVE PLAN

Town Clerk
Town of Norfolk
Norfolk, Massachusetts

Date:

It is hereby certified by the Planning Board of the Town of Norfolk, Massachusetts, that at a duly called and
property posted meeting of said Planning Board, held on ____________________________, it was
voted to approve a definitive subdivision plan entitled:

by: ___________________________________________ of ________________________________
dated: ______________________________ with revisions dates of ______________________________
submitted by: ___________________________________________ Owned by: ______________________________
originally filed with the Planning Board on ______________________________, concerning
the property located off ______________________________ and showing ___________________________ proposed
lots, with the following conditions:

See attached sheet(s) - Attachment A [Conditions of Approval]

Endorsement of the approval is conditional upon the provision of a performance guarantee, in the form of a
Covenant duly executed and approved, to be noted on the plan and recorded with the Norfolk County
Registry of Deeds, said form of guarantee may be varied from time to time by the applicant subject to
agreement on the adequacy and amount of said guarantee by the board.

NOTE TO PLANNING BOARD: Conditions should be written on the endorsed plan which is recorded or should be
set forth in a separate instrument, which could be a copy of the approval vote, and which should be
referenced on the endorsed and recorded plan.

NOTE TO CLERK: The Planning Board should be notified immediately of any appeal to the Superior Court on this
subdivision approval made within the statutory twenty (20) day appeal period. If no appeal is filed with our
office the Planning Board should be notified at the end of the twenty (20) day appeal period in order that the
plan(s) may be endorsed.

Norfolk Planning Board:

__________________________
__________________________
__________________________
__________________________

A true copy, attest:

Clerk, Norfolk Planning Board

Duplicate copy sent to applicant:
FORM C-2

PLANNING BOARD, TOWN OF NORFOLK, MASSACHUSETTS

CERTIFICATE OF APPROVAL WITH MODIFICATIONS OF A DEFINITIVE PLAN

__________________________, 20____

Town Clerk
Town of Norfolk
Norfolk, Massachusetts

It is hereby certified by the Planning Board of the Town of Norfolk, Massachusetts, that at a duly called and properly posted meeting of said Planning Board, held on ______________, 20_____, it was voted to approve a definitive subdivision plan entitled: __________________________

by: __________________________
dated: ______________________, 20____, submitted by: __________________________
address: __________________________, owned by: __________________________
address: __________________________, 20____, originally filed with the Planning Board on ________________ concerning the property located at __________________________

and showing ______ proposed lots, with the following modifications:

See attached sheet(s)

and with the following conditions:

See attached sheet(s)

Endorsement of the approval is conditional upon the provision of a performance guarantee, in the form of a _________________________ duly executed and approved, to be noted on the plan and recorded with the Norfolk County Registry of Deeds; said form of guarantee may be varied from time to time by the applicant subject to agreement on the adequacy and amount of said guarantee by the board.

NOTE TO PLANNING BOARD: Conditions should be written on the endorsed plan which is recorded or should be set forth in a separate instrument, which could be a copy of the approval vote, and which should be referenced on the endorsed and recorded plan.

NOTE TO CLERK: The Planning Board should be notified immediately of any appeal to the Superior Court on this subdivision approval made within the statutory twenty (20) day appeal period. If no appeal is filed with our office the Planning Board should be notified at the end of the twenty (20) day appeal period in order that the plan(s) may be endorsed.

Norfolk Planning Board:

________________________________________

________________________________________

________________________________________

________________________________________

A true copy, attest:

__________________________
Clerk, Norfolk Planning Board

Duplicate copy sent to applicant:
FORM C-3

PLANNING BOARD, TOWN OF NORFOLK, MASSACHUSETTS

APPLICATION FOR APPROVAL OF MODIFICATION TO PREVIOUSLY APPROVED DEFINITIVE SUBDIVISION PLAN

To the Planning Board of the Town of Norfolk, Massachusetts

The undersigned, being the applicant as defined under Chapter 41, Section 81-L, for approval of a proposed modification to a previously approved subdivision shown on a plan entitled ______________________, by ________________________, and with revision(s) dated through ____________, 20____ and described as follows: ________________________, and approved for _______ lots, hereby submits a request for modification to a previously approved DEFINITIVE plan in accordance with the Rules and Regulations of the Norfolk Planning Board and makes application to the Board for approval of said modified plan.

The undersigned's title to said land is derived from ________________________

by deed dated ________________ and recorded in the Norfolk District Registry of Deeds Book ______, Page ________, registered in the Norfolk Registry District of the Land Court, Certificate of Title No. _______; and said land is free of encumbrances except for the following:

________________________________________________________________________

Said plan has evolved from a definitive plan submitted to the Board on ________________, 20____ and approved (with modifications/conditions) on ________________, 20____. This plan has been the subject of previous modifications which were approved on the following date(s):

________________________________________________________________________

The undersigned hereby applies for the approval of modification of said DEFINITIVE plan by the Board, in belief that the modified plan conforms to the Board's Rules and Regulations. Note to Applicant: Attach a separate sheet listing items that are the subject of this modification request.

Received by Norfolk Town Clerk:

Date __________________________

Time __________________________

Signature _______________________

Applicant's Signature __________________________

Title/Company __________________________

Applicant's Address: __________________________

________________________________________

________________________________________

Applicant's Phone # __________________________

Applicant's Fax # __________________________

Owner's Signature if the applicant is not the owner: __________________________

________________________________________

________________________________________

Received by Board of Health

Date __________________________

Time __________________________

BOH Signature ______________________

Owner's Address: __________________________

Owner's Phone # __________________________

Owner's Fax # __________________________
FORM C-3A

PLANNING BOARD, TOWN OF NORFOLK, MASSACHUSETTS

CERTIFICATE OF AMENDMENT, MODIFICATION, OR RECISSION
OF APPROVAL OF A DEFINITIVE SUBDIVISION PLAN

_________________________________________ 20

Town Clerk, Town of Norfolk
Norfolk, Massachusetts

On the motion/petition of __________________________ dated __________________,
20______, and in accordance with Massachusetts General Laws, Chapter 41, Section 81W, it is hereby
certified by the Planning Board of the Town of Norfolk, Massachusetts, that at a duly called and properly
posted meeting of said Planning Board, held on __________________________, 20______, it was voted
to amend/modify/rescind the approval of the definitive subdivision plan entitled:
________________________________________
(dated __________________________)

(and revised __________________________, 20______) by:______________________________,
and recorded at the Norfolk County Registry of Deeds, Plan Book ___________, Page ____________
(performance guarantee being ____________________________ and recorded Book
________________ Page____________), land located ____________________________, and
showing __________________ proposed lots, by making the following
amendments/modifications/rescinding the approval for the following reasons and/or with the following
conditions:

See Attached sheets.

If a modification approval, all prior conditions of approval shall remain in full force and effect until such
time as they are met; pursuant to Massachusetts General Law, Chapter 41, Section 81-W, this
Amendment/Modification/Recession shall take effect when duly recorded by the Planning Board at the
Norfolk County Registry of Deeds the plan as originally approved, or a copy thereof, a certified copy of this
vote making such Amendment/Modification or Recession, and any plan or other document referred to in
this vote. Said recording to be at the expense of the applicant in the case of Amendment or Modification.

Endorsement of the modification approval, if applicable, is conditional upon a revised plan being
submitted to the Planning Board for endorsement and said plan being recorded at the Registry of Deeds
noting that this is a modification to a previously approved definitive plan and replaces Plan Sheet______.

Any Amendment/Modification/Recession of the approval of this plan does/does not affect the lots in the
subdivision which have been sold or mortgaged in good faith and for a valuable consideration. The
consent of the owner(s) of lots, and of the holder(s) of the mortgage affected are attached.

NOTE TO PLANNING BOARD: Conditions should be written on the endorsed plan which is recorded or should
be set forth in a separate instrument, which could be a copy of the approval vote, and which should be
referenced on the endorsed and recorded plan.

NOTE TO CLERK: The Planning Board should be notified of any appeal to the Superior Court on this
subdivision modification approval made within the statutory twenty (20) day appeal period. If no appeal is
filed with your office the Planning Board should be notified at the end of the twenty (20) day appeal
period in order that the plan may be endorsed.

________________________________________

________________________________________

________________________________________

Norfolk Planning Board
FORM C-4

PLANNING BOARD, TOWN OF NORFOLK, MASSACHUSETTS

CERTIFICATE OF DISAPPROVAL OF A DEFINITIVE PLAN

__________________________, 20____

It is hereby certified by the Planning Board of the Town of Norfolk, Massachusetts, that at a duly called and properly posted meeting of said Planning Board, held on ______________________, 20______, it was voted to disapprove a definitive subdivision plan entitled:

__________________________________________

submitted by: ________________________________________________________________

address: _______________________________________________ dated: ____________________, 20____

owned by: _________________________________________________________________

address: _________________________________________________________________

originally filed with the Planning Board on: ____________________________, 20______ concerning the property located at ___________________________ and showing _______ proposed lots because the plan fails to conform to the Planning Board’s Rules and Regulations or the recommendations of the Board of Health in the following respects:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

NOTE TO CLERK: The Planning Board should be notified immediately of any appeal to the Superior or Land Court on this subdivision approval made within the statutory twenty (20) day appeal period.

Norfolk Planning Board:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

Duplicate copy sent to applicant: ________________________________
FORM D

PLANNING BOARD, TOWN OF NORFOLK, MASSACHUSETTS

DESIGNER'S CERTIFICATE

To the Planning Board of the Town of Norfolk, Massachusetts

In preparing the plan entitled: _____________________________ and dated _____________________________, I hereby certify that the above named plan and accompanying data is true and correct to the accuracy required by the current Rules and Regulations Governing the Subdivision of Land in Norfolk Massachusetts and required by the rules of the Massachusetts Registries of Deeds and my source of information about the location of boundaries shown on said plan were one or more of the following:

1. Deed from: _____________________________ to: _____________________________
   dated: _____________________________ and recorded in the Norfolk Registry in Book _____ Page _____.

2. Other deeds and plans, as follows: ____________________________________________

3. Oral information furnished by: ____________________________________________

4. Actual measurement on the ground from a starting point established by: ____________________________

5. Other Sources: ____________________________________________

Signed: ____________________________________________
(Seal of Surveyor)                                      Registered Land Surveyor

___________________________________________________________
___________________________________________________________
___________________________________________________________
Address
Registration No. ____________________________________________

Signed: ____________________________________________
(Seal of Professional Engineer)                          Registered Professional Engineer

___________________________________________________________
___________________________________________________________
___________________________________________________________
Address
Registration No. ____________________________________________
FORM F

PLANNING BOARD, TOWN OF NORFOLK, MASSACHUSETTS
COVENANT

NOW ALL MEN by these presents that the undersigned has submitted an application dated ____________, 20 _____, the Norfolk Planning Board for approval of a definitive plan of a subdivision of land entitled: ____________________________, 20 _____, and owned by: ____________________________, land located: ____________________________, and showing _______ proposed lots. The undersigned has requested the Planning Board to approve such plan without requiring a performance bond.

IN CONSIDERATION of said Planning Board of Norfolk in the county of Norfolk approving said plan without requiring a performance bond, the undersigned hereby covenants and agrees with the inhabitants of Norfolk as follows:

1. That the undersigned is the owner* in fee simple absolute of all the land included in the subdivision and that there are no mortgages of record or otherwise on any of the land, except for those described below, and that the present holders of said mortgages have assented to this contract prior to its execution by the undersigned.

*If there is more than one owner, all must sign. "Applicant" may be an owner or his agent or representative, or his assigns, but the owner of record must sign the covenant.

2. That the undersigned will not sell or convey any lot in the subdivision or erect or place any permanent building on any lot until the construction of way and installation of municipal services necessary to adequately serve such lot has been completed in accordance with the covenants, conditions, agreements, terms and provisions as specified in the following:

   a. The Application for Approval of Definitive Plan (Form C).

   b. The Subdivision Control Law and the Planning Board’s Rules and Regulations governing this subdivision.

   c. The certificate of approval and the conditions of approval specified therein, issued by the Planning Board dated ______________________, 20 __________.

   d. The definitive plan as approved and as qualified by the certificate of approval.

   e. Other document(s) specifying construction to be completed, namely:

   ____________________________________________________

However, a mortgagee who acquires title to the mortgaged premises by foreclosure or otherwise and any succeeding owner of the mortgaged premises or part thereof may sell or convey any lot, subject only to that portion of this covenant which provides that no lot be sold or conveyed or shall be built upon until ways and services have been provided to serve such lot.

3. That this covenant shall be binding upon the executors, administrators, devisees, heirs, successors and assigns of the undersigned and shall constitute a covenant running with the land included in the subdivision and shall operate as restrictions upon the land.

4. That particular lots within the subdivision shall be released from the foregoing conditions upon the recording of a certificate of performance executed by a majority of the Planning Board and enumerating the specific lots to be released; and
5. That nothing herein shall be deemed to prohibit a conveyance by a single deed subject to this
   covenant, of either the entire parcel of land shown on the subdivision plan or of all lots not previously
   released by the Planning Board.

6. That the undersigned agrees to record this covenant with the Norfolk County Registry of Deeds,
   forthwith, or to pay the necessary recording fee to the said Planning Board in the event the Planning
   Board shall record this agreement forthwith. Reference to this covenant shall be entered upon the
   definitive subdivision plan as approved.

7. A deed of any part of the subdivision in violation of the covenant shall be voidable by the grantee prior
   to the release of the covenant; but not later than three (3) years from the date of such deed, as
   provided in Section 81-U, Chapter 41, M.G.L.

8. That this covenant shall be executed before endorsement of approval of the definitive plan by the
   Planning Board and shall take effect upon the endorsement of approval.

9. Upon final completion of the construction of way and installation of municipal services as specified
   herein, on or before ____________________________ (Planning Board date for construction and installation to be completed) the Planning Board shall release
   this covenant by an appropriate instrument, duly acknowledged. Failure to complete construction and
   installation within the time specified herein or such later date as may be specified by vote of the
   Planning Board with a written concurrence of the applicant, shall result in automatic rescission of the
   approval of the plan. Upon performance of this covenant with respect to any lot, the Planning Board
   may release such lot from this covenant by an appropriate instrument duly recorded.

10. Nothing herein shall prohibit the applicant from varying the method of securing the construction of ways
    and installation of municipal services from time to time or from securing by one, or in part by one and in
    part by another of the methods described in M.G.L., Chapter 41, Section 81-U, as long as such security is
    sufficient in the opinion of the Planning Board to secure performance of the construction and
    installation:

For title to the property, see deed from
________________________________________, dated
________________________________________ recorded in Norfolk Registry of Deeds, Book ________, Page ________, or
registered in the Norfolk County Land Registry as Document No. __________, and noted on Certificate of Title
No. __________, in Registration Book __________, Page __________.

The present holder of a mortgage upon the property is
________________________________________

and recorded in Norfolk Registry of Deeds, Book __________, Page __________, or registered in the Norfolk
County Land Registry as Document No. __________, and noted on Certificate of Title No. __________, in Registration
Book __________, Page __________. The mortgagee agrees to hold the mortgage subject to the

The undersigned applicant hereby

agrees that such interest as I, we, may have in the premises shall be subject to the provisions of this covenant
and insofar as is necessary releases all rights of tenancy by the dower or homestead and other interests therein.
IN WITNESS WHEREOF we have hereunto set our hands and seals this _______ of ______________, 20 _____.

__________________________
Owner or Owners

__________________________
Spouse of Owner

__________________________
Mortgagee

Majority of the Planning Board
Norfolk, Massachusetts

One acknowledgment must be completed for each of the following:
Planning Board Representative
Owner or Owners
Spouse of the Owner
Mortgagee

Planning Board Representative

COMMONWEALTH OF MASSACHUSETTS
Norfolk County, ss.

Then personally appeared before me the above named ____________________________ and acknowledged the foregoing instrument to be (his/her/its) free act and deed.

__________________________
Signature of Notary Public

My commission expires: __________________________

Owner or Owners

COMMONWEALTH OF MASSACHUSETTS
Norfolk County, ss.

Then personally appeared before me the above named ____________________________ and acknowledged the foregoing instrument to be (his/her/its) free act and deed.

__________________________
Signature of Notary Public

My commission expires: __________________________
Spouse of Owner/Owners:

COMMONWEALTH OF MASSACHUSETTS

Norfolk County, ss. ____________________________________________________________, 20 _____

Then personally appeared before me the above named ___________________________________________ and acknowledged the foregoing instrument to be [his/her/its] free act and deed.

________________________________________________________________________

Signature of Notary Public

My commission expires: ____________________________________________

Mortgagee

COMMONWEALTH OF MASSACHUSETTS

Norfolk County, ss. ____________________________________________________________, 20 _____

Then personally appeared before me the above named ___________________________________________ and acknowledged the foregoing instrument to be [his/her/its] free act and deed.

________________________________________________________________________

Signature of Notary Public

My commission expires: ____________________________________________
AGREEMENT made this date between the Town of Norfolk and ______________________, hereinafter referred to as "the applicant" of ______________________, to secure construction of ways and installation of municipal services in the subdivision of land shown on a plan entitled:

dated: ______________________, 20____, owned by: ______________________, land located: ______________________ and showing ______________________ proposed lots.

KNOW ALL MEN by these presents that the applicant hereby binds and obligates himself, his or its executors, administrators, devisees, heirs, successors and assigns to the Town of Norfolk, a Massachusetts municipal corporation acting through its Planning Board, in the sum of $____________________ dollars, and has secured this obligation by depositing with the Treasurer of said Town of Norfolk a deposit of money in the above sum to be deposited in a subdivision escrow account in the name of the Town of Norfolk. The deposit of money is to be used to insure the performance by the applicant of all covenants, conditions, agreements, terms and provisions contained in the following:

1. Application for Approval Definitive Plan (Form C), dated: ______________________.

2. The subdivision control law and the Planning Board's Rules and Regulations governing this subdivision and dated ______________________ (date of adoption of subdivision Rules and Regulations);

3. Conditions included in the Certificate of Approval issued by the Planning Board and dated: ______________________;

4. The definitive plan as qualified by the Certificate of Approval; and

5. Other document(s) specifying construction or installation to be completed, namely; (specify other documents, if any, and list lots secured if only a part of the subdivision is secured by a deposit of money)

This agreement shall remain in full force and effect until the applicant has fully and satisfactorily performed all obligations or has elected to provide another method of securing performance as provided in M.G.L., Chapter 41, Section 81-U.

Upon completion by the applicant of all obligations are specified herein, on or before ______________________, or such later date as may be specified by vote of the Planning Board with a written concurrence of the applicant, the deposit of money including all interest accrued thereon shall be returned to the applicant by said Town and this agreement shall become void. In the event the applicant fails to complete the construction of ways and installation of municipal services as specified in this agreement and within the time herein specified, the deposit of money may be applied in whole, or in part, by the Planning Board for the benefit of the Town of Norfolk to the extent of the reasonable cost to the Town of completing such construction or installation as specified in this agreement. Any unused money and the interest accrued on the deposit of money will be returned to the applicant upon completion of the work by said Town; and

The Town of Norfolk acting by and through its Planning Board hereby agrees to accept the aforesaid deposit of money in the amount specified in this agreement as security for the performance of the project as aforesaid.

Any amendments to this agreement and/or to the aforesaid security shall be agreed upon in writing by all parties to this agreement.

Form G-1 - Page 1 of 2
Form G-1, continued - Page 2 of 2
Performance Secured by Deposit of Money

IN WITNESS WHEREOF we have hereunto set our hand and seals this __________ of
______________________, 20_________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

Signatures of a majority of the Planning Board of the Town of Norfolk, Massachusetts

________________________________________________________________________

Signature of Applicant.

One acknowledgment must be completed for each of the following:
Planning Board Representative
Applicant

Planning Board Representative
COMMONWEALTH OF MASSACHUSETTS
Norfolk County, ss.______________________________, 20_________

Then personally appeared before me the above named ____________________________
and acknowledged the foregoing instrument to be (his/her/its) free act and deed.

________________________________________________________________________

Signature of Notary Public

My commission expires: __________________________

Applicant
COMMONWEALTH OF MASSACHUSETTS
Norfolk County, ss.______________________________, 20_________

Then personally appeared before me the above named ____________________________
and acknowledged the foregoing instrument to be (his/her/its) free act and deed.

________________________________________________________________________

Signature of Notary Public

My commission expires: __________________________

Duplicate copy to:
Applicant
Planning Board
Town Clerk
Town Treasurer
FORM G-2

PLANNING BOARD TOWN OF NORTHERN, MASSACHUSETTS
PERFORMANCE SECURED BY A SURETY COMPANY

Norfolk, Massachusetts

AGREEMENT made this date between the Town of Norfolk and 

hereinafter referred to as "the applicant" of 

; and 

, a corporation 

duly organized and existing under the laws of the state of 

, and having a usual place of business at 

, hereinafter referred to as "the surety," to secure construction of ways and installation of municipal services in the subdivision of land shown on plan entitled: 

, by: 

, dated: 

, owned by: 

, address: 

located: 

, and showing 

proposed lots.

KNOW ALL MEN by these presents that the applicant and the surety hereby bind and obligate themselves, their heirs, executors, administrators, devisees, successors and assigns, jointly and severally to the Town of Norfolk, a Massachusetts municipal corporation acting through its Planning Board, in the penal sum of $ 

, and have secured this obligation by depositing with the Treasurer of said Town of Norfolk this surety bond to secure the above sum of money, said surety bond to be used to insure performance by the applicant of all covenants, conditions, agreements, terms and provisions contained in the following:

1. Application for Approval Definitive Plan (Form C), dated:

2. The subdivision control law and the Planning Board's Rules and Regulations governing this subdivision and dated (date adoption of subdivision Rules and Regulations);

3. Conditions included in the Certificate of Approval issued by the Planning Board and dated:

4. The definitive plan as qualified by the Certificate of Approval; and

5. Other document(s) specifying construction or installation to be completed, namely; (specify other documents, if any, and list lots secured if only a part of the subdivision is secured by a surety company)

This agreement shall remain in full force and effect until the applicant has fully and satisfactorily performed all obligations or has elected to provide another method of securing performance as provided in M.G.L., Chapter 41, Section 81-U.

Upon completion by the applicant of all obligations are specified herein, on or before 

, or such later date as may be specified by vote of the Planning Board with a written concurrence of the applicant, the surety, the interest of the Town in such surety bond shall be released, the surety bond shall be returned to the surety, and this agreement shall become void. In the event the applicant should fail to complete the construction of ways and installation of municipal services as specified in this agreement and within the time herein specified, the surety bond may be enforced, in whole, or in part, by the Planning Board for the benefit of the Town of Norfolk to the extent of the reasonable cost to the Town of completing such construction or installation as specified in this agreement. Any unused portion of the surety bond will be returned to the surety upon completion of the work by said town.
The Town of Norfolk acting by and through its Planning Board hereby agrees to accept the aforesaid surety bond in the amount specified in this agreement as security for the performance of the project as aforesaid.

Any amendments to this agreement and/or to the aforesaid security shall be agreed upon in writing by all parties to this agreement.

IN WITNESS WHEREOF we have hereunto set our hand and seals this _______ of _______________________, 20 _______.

__________________________________________

__________________________________________

__________________________________________

Signatures of a majority of the Planning Board of the Town of Norfolk, Massachusetts

__________________________________________

Signature of Applicant

__________________________________________

Signature of Authorized Representative of the Surety

One acknowledgement must be completed for each of the following:
  Planning Board Representative
  Applicant
  Authorized Representative of the Surety

**Planning Board Representative**

COMMONWEALTH OF MASSACHUSETTS

Norfolk County, ss. ________________________ 20 _______

Then ________ personally appeared before me, the above named one of the above-named members of the Planning Board of the Town of Norfolk, Massachusetts and acknowledged the foregoing instrument to be the free act and deed of said Planning Board, before me.

__________________________________________

Signature of Notary Public

My commission expires: ________________________
FORM G-2, Performance Secured by a Surety Company, continued - Page 3 of 3

**Applicant**

COMMONWEALTH OF MASSACHUSETTS

Norfolk County, ss. ________________ 20 __________

Then personally appeared before me the above named ________________________________ and acknowledged the foregoing instrument to be [his/her/its] free act and deed.

______________________________

Signature of Notary Public

My commission expires: ________________

**Authorized Representative of the Surety**

COMMONWEALTH OF MASSACHUSETTS

Norfolk County, ss. ________________ 20 __________

Then personally appeared before me the above named ________________________________ and acknowledged the foregoing instrument to be [his/her/its] free act and deed.

______________________________

Signature of Notary Public

My commission expires: ________________

Duplicate copy to:

Applicant
Surety
Planning Board
Town Clerk
Town Treasurer
FORM G-3

PLANNING BOARD, TOWN OF NORFOLK, MASSACHUSETTS
PERFORMANCE SECURED BY BANK PASSBOOK

Norfolk, Massachusetts

AGREEMENT made this date between the Town of Norfolk and ________________________,
hereinafter referred to as "the applicant" of ____________________________,
to secure construction of ways and installation of municipal services in the subdivision of land shown on a plan
entitled: ________________________________________________________________

by: ______________________________________, dated: ________________________,

owned by: ______________________________________, address: ________________________,

land located: ____________________________________________________________ and showing ________ proposed lots.

KNOW ALL MEN by these presents that the applicant hereby binds and obligates himself, his or its executors,
administrators, devisees, heirs, successors and assigns to the Town of Norfolk, a Massachusetts municipal
corporation, acting through its Planning Board, in the sum of $_________ dollars, and has secured this
obligation by deposit with the Treasurer of the Town of Norfolk, a deposit of money for the above sum represented
by Bank Passbook No. ______________________ Bank of ______________________ with an order drawn on the
________________________________________ Bank of ______________________ payable to the order
of the Planning Board of the Town of Norfolk, said sum to be used to insure the performance by the applicant of all
covenants, conditions, agreements, terms and provisions contained in the following:

1. Application for Approval Definitive Plan (Form C), dated: __________________________;

2. The subdivision control law and the Planning Board's Rules and Regulations governing this subdivision and dated __________________________ (date adoption of subdivision Rules and Regulations);

3. Conditions included in the Certificate of Approval issued by the Planning Board and dated ______________________;

4. The definitive plan as qualified by the Certificate of Approval; and

5. Other document(s) specifying construction or installation to be completed, namely: (specify other documents, if any, and list lots secured if only a part of the subdivision is secured by a bank passbook.

This agreement shall remain in full force and effect until the applicant has fully and satisfactorily performed all obligations, or has
elected to provide another method of securing performance as provided in M.G.L., Chapter 41, Section 81 U.

Upon completion by the applicant of all obligations specified herein, on or before ______________________, or such later
date as may be specified by vote of the Planning Board with written concurrence of the applicant and the bank, the bank
passbook shall be returned to the applicant by the Town of Norfolk and this agreement shall become void. In the event that the
applicant shall fail to complete the construction of ways and installation of municipal services as specified in this agreement
and within the time herein specified, the funds on deposit in the account represented by the aforesaid bank passbook and
order drawn thereon may be applied in whole, or in part, by the Planning Board for the benefit of the Town of Norfolk to the
extent of the reasonable cost to the Town of Norfolk of completing such construction or installation as specified in this
agreement. Any unused funds and the bank passbook will be returned to the applicant upon completion of the work by said
Town of Norfolk.

The Town of Norfolk acting by and through its Planning Board hereby agrees to accept the aforesaid bank passbook and order
drawn thereon as security for the performance of this project; and
The ___________________________ Bank of ___________________________ hereby
agrees not to release any funds from the account represented by the aforesaid bank passbook or otherwise
amend or make a change to the aforesaid bank passbook or to the order drawn thereon with written
agreement by the Planning Board.

Any amendments to this agreement and/or to the aforesaid security shall be agreed upon in writing by all
parties to this agreement.

IN WITNESS WHEREOF we have hereunto set our hand and seals this ___ of ____________________________, 20 ___.

__________________________________________________________

__________________________________________________________

__________________________________________________________

__________________________________________________________

Signatures of a majority of the Planning Board
of the Town of Norfolk, Massachusetts

__________________________________________________________

Signature of Applicant

__________________________________________________________

Signature of Authorized Representative of the
________________________ Bank

One acknowledgment must be completed for each of the following:
Planning Board Representative
Applicant
Authorized Representative of the __________________________ Bank

Planning Board Representative

COMMONWEALTH OF MASSACHUSETTS

Norfolk County, ss. ____________________________, 19 ___

Then personally appeared before me the above named __________________________
and acknowledged the foregoing instrument to be [his/her/its] free act and deed.

__________________________________________________________

Signature of Notary Public

My commission expires: ____________________________
FORM G-3, Performance Secured by Bank Passbook, continued - Page 3 of 3

Applicant

COMMONWEALTH OF MASSACHUSETTS

Norfolk County, ss. _________________________________, 19 ______

Then personally appeared before me the above named ________________________________ and acknowledged the foregoing instrument to be [his/her/its] free act and deed.

__________________________________________

Signature of Notary Public

My commission expires: _________________________

Authorized Representative of the ______________________ Bank

COMMONWEALTH OF MASSACHUSETTS

Norfolk County, ss. _________________________________, 19 ______

Then personally appeared before me the above named ________________________________ and acknowledged the foregoing instrument to be [his/her/its] free act and deed.

__________________________________________

Signature of Notary Public

My commission expires: _________________________

Duplicate copy to:

Applicant

__________________________________________ Bank
Planning Board
Town Clerk
Town Treasurer
FORM G-4

PLANNING BOARD, TOWN OF NORFOLK, MASSACHUSETTS

PERFORMANCE SECURED BY LENDER'S AGREEMENT

Norfolk, Massachusetts

AGREEMENT made this date between the Town of Norfolk and ____________________________, hereinafter referred to as "the applicant" of ____________________________, and ____________________________, hereinafter referred to as "the lender" of ____________________________, to secure construction of ways and installation of municipal services in the subdivision of land shown on a plan entitled: ____________________________, dated: ____________________________, owned by: ____________________________, land located: ____________________________, and showing ________ proposed lots.

KNOW ALL MEN by these presents that the applicant and the Planning Board of the Town of Norfolk have executed a covenant, dated ____________________________, 20 ______, recorded in the Norfolk Registry of Deeds, Book ________, Page ________; that the applicant has recorded a first mortgage with the lender dated ____________________________, 20 ______, recorded in the Norfolk County Registry of Deeds, Book ________, Page ________, covering ____________________________ as shown on the above-referenced plan as security for the payment of a certain note in the principal sum of $__________________________ dollars, and that the applicant and lender hereby bind and obligate themselves, their, or its executors, administrators, devisees, heirs, successors, and assigns, jointly and severally to the Town of Norfolk, a Massachusetts municipal corporation, acting through its Planning Board in the sum of $__________________________ dollars, and have secured this obligation by the lender retaining said sum of money of said principal sum otherwise due the applicant to insure the performance by the applicant of all covenants, conditions, agreements, terms and provisions contained in the following:

1. Application for Approval Definitive Plan (Form C), date: ____________________________;

2. The subdivision control law and the Planning Board's Rules and Regulations governing this subdivision and dated ____________________________ (date adoption of subdivision Rules and Regulations);

3. Conditions included in the Certificate of Approval issued by the Planning Board and dated ____________________________;

4. The definitive plan as qualified by the Certificate of Approval; and

5. Other document(s) specifying construction or installation to be completed, namely: (specify other documents, if any, and list lots secured if only a part of the subdivision is secured by a negotiable security)

This agreement shall remain in full force and effect until the applicant has fully and satisfactorily performed all obligations.

Upon completion by the applicant of obligation as specified in the following schedule:

Form G-4 - Page 1 of 4
<table>
<thead>
<tr>
<th>SUM TO BE RETAINED BY LENDER</th>
<th>STAGE OF CONSTRUCTION OR INSTALLATION TO BE COMPILED</th>
<th>DATE WHEN CONSTRUCTION AND INSTALLATION IS TO BE COMPLETED</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. $</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. $</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. $</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(add additional stages if necessary)

The interest of the Town of Norfolk in such funds retained by the lender shall be released, that portion of the agreement covering a specific stage of work shall become void, and the lender may disburse such funds which have been held as security for a specific stage of work, to the applicant. In the event the applicant should fail to complete any stage of construction of ways and installation of municipal services as specified in this agreement and within the time herein specified, any funds remaining undisbursed shall be made available in whole, or in part, by the lender to the Planning Board for the benefit of the Town of Norfolk to the extent of reasonable cost to the Town of Norfolk of completing such construction or installation as specified in this agreement. Any unused portion of such funds will be released by the Planning Board and may be disbursed by the lender to the applicant upon completion of work by said Town.
The Town of Norfolk acting by and through its Planning Board hereby agrees to release the following lots from the operation of the above-referenced covenant given pursuant to Section 81-U of Chapter 41, the Subdivision Control Law without receipt of a bond or deposit of money and further to accept this agreement and the funds in the amount specified herein to be retained by the lender as security for the performance of the project as aforesaid. Upon delivery of this agreement to the Planning Board, said lots shall be released as specified herein.

The lender hereby agrees that none of the funds retained as security, as specified herein, shall be disbursed to the applicant without prior release of said funds by the Planning Board.

Any amendments to this agreement and/or to the aforesaid security shall be agreed upon in writing by all parties to this agreement.

IN WITNESS WHEREOF we have hereunto set our hand and seals this _______ of ____________________, 20 ___.

[Signatures]

Signatures of a majority of the Planning Board of the Town of Norfolk, Massachusetts

Signature of Applicant

Signature of Authorized Representative of Lender

One acknowledgment must be completed for each of the following:
Planning Board Representative
Applicant
Authorized Representative of the Lender

Planning Board Representative

COMMONWEALTH OF MASSACHUSETTS

Norfolk County, ss.

Then personally appeared before me the above named [his/her/its] free act and deed.

Signature of Notary Public

My commission expires: ________________________
FORM G-4, Performance Secured by Lender’s Agreement, continued - Page 4 of 4

Applicant

COMMONWEALTH OF MASSACHUSETTS

Norfolk County, ss. ____________________________ 20 _______

Then personally appeared before me the above named ____________________________ and acknowledged the foregoing instrument to be (his/her/its) free act and deed. ____________________________

Signature of Notary Public My commission expires: ____________________________

Authorized Representative of the Lender

COMMONWEALTH OF MASSACHUSETTS

Norfolk County, ss. ____________________________ 20 _______

Then personally appeared before me the above named ____________________________ and acknowledged the foregoing instrument to be (his/her/its) free act and deed. ____________________________

Signature of Notary Public My commission expires: ____________________________

Duplicate copy to:

Applicant
Lender
Planning Board
Town Clerk
Town Treasurer
FORM H
PLANNING BOARD, TOWN OF NORFOLK, MASSACHUSETTS

RELEASE OF LOTS

To The: Register of Deeds for the County of Norfolk/Assistant Recorder for the Land Court, Norfolk County Registry District

Dear Sir:

At a regular/special meeting of the Planning Board of Norfolk, MA held on the __________ day of __________ 20___,

it was voted to release lots numbered __________________________

as shown on a subdivision plan entitled __________________________

dated __________________________ and revised __________________________

and filed with the Norfolk County Registry of Deeds as Plan(s) numbered __________ 20____, in Plan Book __________

(and filed with the Norfolk County Registry of Deeds as Plan(s) Numbered __________) (with Certificate(s) of Title

Number_______)

FROM THE OPERATION OF A COVENANT made with said Planning Board dated __________________________ 20____

which covenant has been recorded, Norfolk County Registry of Deeds, Book _________ Page(s) __________________________.

This release is given by the Planning Board because it has received a:


to secure the performance of the obligations under said covenant in accordance with General Laws Chapter 41, Section 81U.

________________________________________________________________________

PLANNING BOARD
TOWN OF NORFOLK

________________________________________________________________________

COMMONWEALTH OF MASSACHUSETTS

Norfolk County, ss. ________________ 20____

Then personally appeared before me the above named __________________________, one of the

above-named members of the Planning Board of the Town of Norfolk, Massachusetts and acknowledged the foregoing

instrument to be the true act and deed of said Planning Board, before me.

My commission expires: __________________________

Signature of Notary Public
FORM K
PLANNING BOARD, TOWN OF NORFOLK, MASSACHUSETTS

SUBDIVISION INSPECTION CHECKLIST

Name of Subdivision

Name of Applicant __________________________ Phone # of Applicant
Name of Subdivision Street

Station # __________________________ to Station#

*Certificates of compliance required for all materials furnished and installed in accordance with Subsection 5.17.

FORM K
SUBDIVISION OBSERVATION CHECKLIST

<table>
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<tr>
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**NOTES:**

1. Observations assigned to the Planning Board Agent are performed by either the Planning Board’s Consultant or the Highway Superintendent as may be determined by the Planning Board.

(6) Includes NPDES plan requirements

(7) *Indicates certificates of compliance required for all materials furnished and installed in accordance with Subsection 5.17.

(8) Special testing may be required on a case by case basis.

(9) Utility installation (other than water). Written verification from gas, electric, telephone, and cable utilities that installation of underground utilities are acceptable to each of them.

Please attach a listing of all waivers granted.
FORM K2
PLANNING BOARD
NORFOLK, MASSACHUSETTS

SITE PLAN OBSERVATION/INSPECTION CHECKLIST

Name of Project ____________________________ Site Plan Decision # __________________

Address of Property ____________________________________________________________

Name of Applicant ____________________________ Phone # of Applicant __________________

Name of Contractor ____________________________ Phone # of Contractor __________________

*Certificates of compliance required for all materials furnished and installed in accordance with Subsection 5.17.

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For observation request, call the Planning Board office at (508) 528-2961 during business hours. Notifications must be made by the developer (or agent) 48 hours in advance of the observation.
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4. Special testing may be required on a case by case basis.

5. Utility installation (other than water). Written verification from gas, electric, telephone, and cable utilities that installation of underground utilities are acceptable to each of them.

Please attach a listing of all waivers granted.
CONVEYANCE OF EASEMENTS AND UTILITIES

Norfolk County, Massachusetts; for the consideration of ________________________, hereby grants, transfers and delivers

unto the Town of Norfolk a municipal corporation in Norfolk County, the following:

A. The perpetual rights and easements to construct, inspect, repair, remove, replace, operate and forever maintain (1) a sanitary sewer or sewers with any manholes, pipes, conduits and other appurtenances, (2) pipes, conduits and their appurtenances for the conveyance of water, and (3) a covered surface and ground water drain or drains with any manholes, pipes, conduits and their appurtenances, and to do all other acts incidental to the foregoing, including the right to pass along and over the land for the aforesaid purposes, in, through, and under the whole of ________________, dated _____________________, said plan is made and said plan is incorporated herein for a complete and detailed description of said roads.

B. The perpetual rights and easements to use for ________________________ (describe use or purpose) of the following parcel of land situated on ________________________ (street) in said Norfolk and bounded and described as follows: (description)

__________________________________________________________________________
__________________________________________________________________________

The grantor warrants that the aforesaid easements are free and clear of all liens or encumbrances, that he (it) has good title to transfer the same, and that he will defend the same against claims of all persons.

For grantor's title see deed from ________________________, dated _____________________, 20 ______ and recorded in _________________ District Registry of Deeds, Book __________, Page __________, or under Certificate of Title No. _________________, registered in _________________ District of the Land Court, Book __________, Page __________.

This is not a homestead property.

And (to be completed if a mortgage exists) ________________________ (name and address) _________________________ the present holder of a mortgage on the above described land, which mortgage is dated _____________________, 20 ______, and recorded in said Deeds, Book __________, Page __________, for consideration paid, hereby releases unto the Town forever from the operation of said mortgages, the rights and easements hereinabove granted and assents thereto.

Form L, Conveyance of Easements and Utilities, continued. Page 2 of 2
Form L, Conveyance of Easements and Utilities, continued, Page 2 of 2

Authorized Signature Mortgagee __________________________  Owner __________________________

IN WITNESS WHEREOF we have hereunto set our hands and seals this _______ day of ________, 20 ________.

COMMONWEALTH OF MASSACHUSETTS

Norfolk, ss.

__________ , 20 ________

Then personally appeared the above named __________________________ and acknowledged the foregoing instrument to be the free act and deed before me.

________________________ Notary Public

My commission expires: __________________________

NOTE: This conveyance is not effective until accepted by town meeting or city council.
FORM M
NORFOLK PLANNING BOARD
CONTROL FORM FOR PROCESSING
SUBDIVISION PLAN AND CONSTRUCTION

SUBDIVISION PLAN ENTITLED: 

LAND LOCATED: 

BY: 

APPLICANT: 

ADDRESS: 

PHONE: 

Date of Preliminary Plan 

Date of Preliminary Plan Submission (PS) 

Preliminary Plan Approval Date (PS + 45) 

Date of Definitive Plan 

Submission Date(s) 

Check: Received _______ Forms Received _______ Plans Received _______

Date of Definitive Plan Submission to Board of Health (SH) 

Dated Received Board of Health Report (SH + 45) 

Date of Plan Submission to Other Boards and Agencies

Board 

Date 

Dated Received Reports from Other Boards and Agencies


Form M - Page 1 of 2
<table>
<thead>
<tr>
<th>Field</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approval Deadline Date (S + 90 or 135 days)</td>
<td></td>
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<tr>
<td>Hearing Date (H)</td>
<td></td>
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<tr>
<td>Date of Letters to Abutters (H-14 days)</td>
<td></td>
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<tr>
<td>Date of Newspaper Notices (2) (H-14 days first notice)</td>
<td></td>
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<tr>
<td>Approval or Disapproval Date (A)</td>
<td></td>
</tr>
<tr>
<td>Appeal Deadline Date (A + 20 days)</td>
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<tr>
<td>Date of Performance Guarantee Agreement</td>
<td></td>
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<tr>
<td>Description of Performance Guarantee</td>
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<tr>
<td>Date Record Plans Endorsed</td>
<td></td>
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<tr>
<td>Date Plans &amp; Performance Guarantee Recorded</td>
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</tr>
<tr>
<td>Book No.</td>
<td>Page No.</td>
</tr>
<tr>
<td>Date of Amendments, Extensions to Original Performance Guarantee</td>
<td></td>
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<tr>
<td>Description of Amended Performance Guarantee:</td>
<td></td>
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<tr>
<td>Date of Amendment Modification or Rescission of Approval</td>
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<tr>
<td>Other</td>
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<tr>
<td>Releases:</td>
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<tr>
<td>Lot Numbers</td>
<td>Date of Lot Releases</td>
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<tr>
<td>Date of Final Release/Certificate of Completion</td>
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</table>
FORM M-1
NORFOLK PLANNING BOARD

PRELIMINARY PLAN - CONTROL FORM

NORFOLK PLANNING BOARD

Date: ______________

SUBDIVISION NAME

Applicant’s Name ____________________________ Tel.# __________

Applicant’s Address

Engineer (Surveyor __________________________

Preliminary Plan __________________________

Dated Submitted (S) _________________________

Approval Date (S + 45) ______________________

1. See Checklist, Submission of Preliminary Plan

2. Date Filed with Town Clerk __________________

3. List all plans and supporting documents with this Preliminary Plan

Identifying Number/Letter _____________________ Title, Date ________

_________________________ ______________________

_________________________ ______________________

_________________________ ______________________

4. Plans to include the following information (See Section 3.2.2. - Contents)

<table>
<thead>
<tr>
<th>Plan or Document</th>
<th>Identifying No./Letter</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Subdivision name and date, boundaries, north point, scale, legend and title “Preliminary Plan”</td>
<td></td>
</tr>
<tr>
<td>b. Name and address of record owner and subdivider - name; seal, and address of the designer, engineer and surveyor</td>
<td></td>
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<tr>
<td>c. Owners of abutting property</td>
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<tr>
<td>d. Locus plan</td>
<td></td>
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<tr>
<td>e. Existing and proposed streets, ways, and easements</td>
<td></td>
</tr>
<tr>
<td>f. Major features of the land</td>
<td></td>
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<tr>
<td>g. Proposed sewage disposal systems, drainage</td>
<td></td>
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<tr>
<td>h. Bounds of proposed lots, areas, and dimensions</td>
<td></td>
</tr>
<tr>
<td>i. Adjacent streets</td>
<td></td>
</tr>
<tr>
<td>j. Topography of land</td>
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<td>k. Soil types</td>
<td>Plan or Document</td>
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<td>-----------------------------------------------</td>
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</tr>
<tr>
<td>l. Letter designation on streets</td>
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<tr>
<td>m. Profiles</td>
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<tr>
<td>n. Adjoining land - zoning district boundaries, overlay districts, flood plains, wetlands, wetland districts</td>
<td></td>
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<tr>
<td>o. Zoning classification</td>
<td></td>
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<tr>
<td>p. Assessors’ Map; Block and Lot numbers</td>
<td></td>
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<tr>
<td>q. All required easements, existing and proposed</td>
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<tr>
<td>r. Title block</td>
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<tr>
<td>s. Waivers</td>
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</tr>
</tbody>
</table>

5. Date Form M-1 and set of preliminary plans sent to the following (S + 10) with required response date (S + 30)

<table>
<thead>
<tr>
<th>a. Board of Health (Proof submitted to Board of Health by Applicant)</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>b. Conservation Commission</td>
<td></td>
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<tr>
<td>c. Fire Department</td>
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<tr>
<td>d. Police Department</td>
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<tr>
<td>e. Highway Department</td>
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<td>f. Water Department</td>
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<tr>
<td>g. Building Commissioner (if applicable)</td>
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</tbody>
</table>

I hereby certify to the Norfolk Planning Board that to the best of my knowledge, the submission of the Preliminary Plan is complete.

Registered Land Surveyor or Registered Civil Engineer

Stamp:

6. Date comments received from reviewers regarding preliminary plan:

<table>
<thead>
<tr>
<th>h. Board of Health (Proof submitted to Board of Health by Applicant)</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>i. Conservation Commission</td>
<td></td>
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<tr>
<td>j. Fire Department</td>
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<td>k. Police Department</td>
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<td>l. Highway Department</td>
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<tr>
<td>m. Water Department</td>
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<tr>
<td>n. Building Commissioner (if applicable)</td>
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</tbody>
</table>

7. Planning Board Action Date

   a. Type of Road Construction ( ) Primary ( ) Secondary ( ) Residential
FORM M-2

CONTROL FORM AND DEFINITIVE PLAN CHECKLIST

NORFOLK PLANNING BOARD ___________________________ Date: ________________

SUBDIVISION NAME ________________________________

Applicant’s Name _________________________________ Tel. # __________________

Applicant’s Address _______________________________

Engineer (Surveyor) _______________________________

Definitive Plan - Date Submitted (S) ________________

Approval Date (S + 45) ____________________________

1. Form "C" Completed: ( ) Yes ( ) No Fee Paid ( ) Yes ( ) No

Designer’s Certificate Completed: ( ) Yes ( ) No

Certified List of Abutters from Assessors Office: ( ) Yes ( ) No

a. Date Filed - Town Clerk ________________________

2. List all plans and supporting documents with this Definitive Plan

Identifying Number/Letter __________________________ Title, Date __________________________

____________________________  __________________________

____________________________  __________________________

____________________________  __________________________

3. Plans to include the following information (See Sec. 3.3.2 - Contents)

<table>
<thead>
<tr>
<th>Plan or Document</th>
<th>Identifying No./Letter</th>
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</thead>
<tbody>
<tr>
<td>a. Subdivision name and date, boundaries, north point and scale</td>
<td></td>
</tr>
<tr>
<td>b. Names and seals of the owner designee, engineer and surveyor</td>
<td></td>
</tr>
<tr>
<td>c. North point, scale, boundaries, revision block</td>
<td></td>
</tr>
<tr>
<td>d. Abutters and adjacent land of applicant</td>
<td></td>
</tr>
<tr>
<td>e. Major features of the land</td>
<td></td>
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<tr>
<td>f. Lines of existing and proposed streets, lots</td>
<td></td>
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<tr>
<td>g. Letter designations for streets</td>
<td></td>
</tr>
<tr>
<td>h. Lot numbers</td>
<td></td>
</tr>
<tr>
<td>i. Lengths and bearings of streets, ways, lot lines, etc.</td>
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<td></td>
<td>Plan or Document</td>
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<tr>
<td>j.</td>
<td>Monuments</td>
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<tr>
<td>k.</td>
<td>Adjacent streets</td>
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<tr>
<td>l.</td>
<td>Zoning classification streets</td>
</tr>
<tr>
<td>m.</td>
<td>Assessor’s Map, Block and Lot numbers</td>
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<tr>
<td>n.</td>
<td>Covenants, restrictions, ZBA</td>
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<tr>
<td>o.</td>
<td>Land Court references</td>
</tr>
<tr>
<td>p.</td>
<td>Space to record Board action</td>
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<tr>
<td>q.</td>
<td>Profiles</td>
</tr>
<tr>
<td>r.</td>
<td>Topography</td>
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<tr>
<td>s.</td>
<td>Water, hydrants, street lights, electric, cable, telephone</td>
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<tr>
<td>t.</td>
<td>Drainage calculations</td>
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<td>u.</td>
<td>Tree plans</td>
</tr>
<tr>
<td>v.</td>
<td>Typical cross-sections</td>
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<tr>
<td>w.</td>
<td>Impact Studies and Assessments</td>
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<tr>
<td>x.</td>
<td>Sedimentation and Erosion Control Plan</td>
</tr>
<tr>
<td>y.</td>
<td>Soil test results (on the plan)</td>
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<tr>
<td>z.</td>
<td>Traffic Congestion Control and Analysis</td>
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<tr>
<td>aa.</td>
<td>Wetlands</td>
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<tr>
<td>bb.</td>
<td>Locus plan</td>
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<tr>
<td>cc.</td>
<td>Lot layout at 1&quot; = 100' for new assessor’s maps</td>
</tr>
</tbody>
</table>

4. Date Form M-2 and set of definitive plans sent to the following (S + 10) with required response date (S + 30)

- a. Board of Health* (Receipt dated)
- b. Conservation Commission
- c. Fire Department
- d. Police Department
- e. Highway Department
- f. Water Department

*It is the developer’s responsibility to distribute the plans to the BOARD OF HEALTH, receipt submitted to the Planning Board.

I hereby certify to the Norfolk Planning Board that to the best of my knowledge, the submission of this Definitive Plan is complete.

Registered Land Surveyor or Registered Civil Engineer

Stamp
FORM N-1

PLANNING BOARD, TOWN OF NORFOLK, MASSACHUSETTS

REQUEST FOR EXTENSION - PRELIMINARY PLAN

Norfolk Planning Board
Norfolk Town Hall, One Liberty Lane
Norfolk, MA 02056

Request for Extension, Preliminary Plan

Subdivision Entitled: ________________________________

Plan Dated: ________________________________

Revised: ________________________________

Date Submitted to Planning Board: ________________________________

In accordance with Section 81U, Chapter 41 of the General Laws of Massachusetts, I hereby request an extension of the forty-five (45) day time limit which the Planning Board has under the law, for consideration of the subject plan.

I request this extension through (date) ________________________________ 20 ___________

Signed by applicant: ________________________________

Typed or printed name of applicant: ________________________________

Street Address: ________________________________

Town, State, Zip: ________________________________

cc: Town Clerk
FORM N-2

PLANNING BOARD, TOWN OF NORFOLK, MASSACHUSETTS

REQUEST FOR EXTENSION - DEFINITIVE PLAN

Date

Norfolk Planning Board
Norfolk Town Hall, One Liberty Lane
Norfolk, MA 02056

Subject: Request for Extension, Definitive Plan

Subdivision Entitled: Mill River Heights

Plan Dated: ____________________________________________

Revised: ______________________________________________

Date Submitted to Planning Board: ________________________

In accordance with Section 81U, Chapter 41 of the General Laws of Massachusetts, I hereby request an extension of either the ninety (90) day or one hundred thirty-five (135) day time limit which the Planning Board has under the law, for consideration of the subject plan.

I request this extension through (date) ____________________ 20 __________

Signed by applicant: ____________________________________

Typed or printed name of applicant: ________________________

Street Address: ________________________________________

Town, State, Zip: ______________________________________

cc: Town Clerk
FORM O
PLANNING BOARD, TOWN OF NORFOLK, MASSACHUSETTS
SITE PLAN APPROVAL APPLICATION
AND CHECKLIST

To the Norfolk Planning Board

The undersigned desires to submit a Site Plan for review as required by Section F.11 of the Town of Norfolk Zoning Bylaws.

Applicant's Name __________________________ Company __________________________

Address ____________________________________________ Town __________________________

State/Zip ________________ Phone __________________________ Fax __________________________

Property Location __________________________________________

Assessor's Map ________________ Block ________________ Lot ________________ Zoning District __________________________

Owner's Name __________________________

Company __________________________

Address ____________________________________________ Town __________________________

State/Zip ________________ Phone __________________________ Fax __________________________

Lienholder/Mortgagee Name __________________________

Address __________________________

Town __________________________ State/Zip __________________________ Phone __________________________

Applicant's Interest (lessee, option to buy, P&S, etc.) __________________________

This application is for (circle the applicable paragraph number below):

1. Any new building to be constructed or externally enlarged.

2. Any existing use to be expanded in ground area.

3. Any new use to be established in an existing building.

Plan dated: __________________________ Name of Engineer: __________________________

Summary of work to be done: __________________________

__________________________________________________________

Estimated Cost $ __________________________ Starting Date __________________________ Completion Date __________________________

Signature of Applicant __________________________ Date __________________________

Signature of Land Owner __________________________ Date __________________________
SECTION 7.0 SITE PLAN APPROVAL: CHECKLIST

This checklist is to be submitted at the time of submittal of an application for Site Plan Approval. Refer to the Rules and Regulations for Site Plan Approval (Section 7) for a complete and detailed explanation of each item below. For each item below please indicate whether the information required is shown, whether it is not applicable due to the nature of the application, or if it is to be the subject of a waiver request. Submit all such waiver requests in writing at the time of application for Site Plan Approval to enable the Board and its engineer to determine the merits thereof.

<table>
<thead>
<tr>
<th>Regulation Section (with brief description)</th>
<th>Shown</th>
<th>(N/A)*</th>
<th>Waiver Request</th>
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<tbody>
<tr>
<td>7.4. REQUIREMENTS</td>
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<tr>
<td>7.4.1. Pre-Submission Review</td>
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<td>7.4.2. Plan materials and etc.</td>
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<td>7.4.2.1. Name/address</td>
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<td>7.4.2.2. Sections 4 and 5</td>
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<td>7.4.3. Contents</td>
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<tr>
<td>7.4.3.1. Professional Engineer/Seal</td>
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<td>7.4.3.2. Signature Block</td>
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<td>7.4.3.3. Locus Plan</td>
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<td>7.4.3.4. Bounds etc.</td>
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<td>7.4.3.5. Assessor's Map, Block and Lot etc.</td>
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<td>7.4.3.6. Zoning district(s) . . .</td>
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<td>7.4.3.7. Topography/Contours</td>
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<td>7.4.3.8. Buildings/ground coverage/open areas etc.</td>
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<td>7.4.3.9. Yard dimensions</td>
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<td>7.4.3.10. Parking lots/access/traffic circulation etc.</td>
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<td>7.4.3.11. Landscape features</td>
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<tr>
<td>Regulation Section (with brief description)</td>
<td>Shown</td>
<td>(N/A)*</td>
<td>Waiver Request</td>
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<td>7.4.3.12. Natural features etc.</td>
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<td>7.4.3.13. Water supply etc.</td>
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<td>7.4.3.13.1. Lighting information</td>
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<td>7.4.3.13.2. Photometric diagram</td>
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<td>7.4.3.14. Storage facilities</td>
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<td>7.4.3.15. Refuse/septage</td>
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<td>7.4.3.16. Storm-water/drainage</td>
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<td>7.4.3.17. Erosion/siltation/dust control</td>
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<td>7.4.3.18. Signs - free standing</td>
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<td>7.4.3.19. Private wells</td>
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<td>7.4.3.20. Public or community water supply sells</td>
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<td>7.4.3.21. Earth removal</td>
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<td>7.4.3.22. Vehicle size</td>
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<td>7.4.3.23. Garage and pedestrian entrances and exits</td>
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<td>7.4.3.24. Utilities (private/public)</td>
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<td>7.4.3.25. Waiver requests</td>
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<td>7.4.3.26. Drainage impact</td>
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<td>7.4.3.27. Parking lot/driveway construction details</td>
<td></td>
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<td>7.4.3.27.1. Parking areas serving municipal open space</td>
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<td>7.4.3.27.2.</td>
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<td>7.4.3.27.3.</td>
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<td>7.4.3.27.4.</td>
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<td>7.4.3.27.5.</td>
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<td>7.4.3.27.6.</td>
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*This item is not applicable to this site plan submittal.
PLANNING BOARD
NORFOLK, MASSACHUSETTS
FORM Q.
EARTH REMOVAL/RELOCATION PERMIT APPLICATION

1. Application Date: __________________________

2. Name of Subdivision __________________________ Date of Plan ______

3. Name and Address of Engineer __________________________

4. Legal Owner of Property: __________________________

                        Address of Owner                        Telephone #

5. Applicant: (If same, enter “same”) __________________________

                        Name                        Telephone #                        Fax #

                        Doing Business As                        Telephone #

                        Address of Applicant

6. Location of Parcel of Land: Street: __________________________

Assessors Map. No. ________ Block No. ________ Lot(s) No. ________

7. Earth Removal Request to: (Enter quantity and soil types estimates)

   1. Move ________________ Cubic Yards of ________________ (soil, loam, sand, gravel)

   2. Strip ________________ Cubic Yards of ________________ (soil, loam, sand, gravel)

   3. Stockpile ________________ Cubic Yards of ________________ (soil, loam, sand, gravel)

   4. Remove ________________ Cubic Yards of ________________ (soil, loam, sand, gravel)

8. Destination of Materials __________________________

9. The form of bond proposed by the Applicant is __________________________

The foregoing application is hereby submitted.

__________________________  ________________
(Signature of applicant or agent)  (Date)

See Fee Schedule in Appendix A of Rules and Regulations
TOWN OF NORFOLK, MASSACHUSETTS

GOOD STANDING APPROVAL

Address of property/vendor:

Owner of Property/Vendor Name:

Type of Permit:

Applicant... please complete the above and obtain signature at the following offices:

Treasurer/Collector's Approval:

Date Approved:

Water Department Approval:

Date Approved:

Town Clerk Approval:

Date Approved:
APPENDIX C

TYPICAL CROSS SECTIONS

- 50 Foot Right of Way (See Sections 5.2.1.1. or 8.5.4.2.)
- 60 Foot Right of Way (See Sections 5.2.1.1. or 8.5.4.2.)
RESIDENTIAL STREET
50 FOOT RIGHT-OF-WAY
TYPICAL CROSS SECTION
(NO SCALE)

NOTES:
1. SIDEWALK PAVEMENT TO CONSIST OF 1 1/2" BITUMINOUS CONCRETE BINDER COURSE FOLLOWED BY A 1" BITUMINOUS CONCRETE FINISH COURSE (TYP.)
2. CONCRETE BASE FOR GRANITE CURBING TO BE PROVIDED PER M.H.O. STANDARDS.
3. PROVIDE 6' UTILITY EASEMENT OUTSIDE RIGHT-OF-WAY (EACH SIDE).
4. LOCATE TREES MINIMUM 15 FEET FROM HYDRANT.
NOTES:
1. SIDEWALK PAVEMENT TO CONSIST OF 1 1/2" BITUMINOUS CONCRETE BINDER COURSE FOLLOWED BY A 1" BITUMINOUS CONCRETE FINISH COURSE (TYP.)
2. CONCRETE BASE FOR GRAIN CURBING TO BE PROVIDED PER M.H.O.D. STANDARDS.
3. PROVIDE 6' UTILITY EASEMENT OUTSIDE RIGHT-OF-WAY (EACH SIDE).
4. LOCATE TREES MINIMUM 15 FEET FROM HYDRANT.

PRIMARY STREET
60 FOOT RIGHT-OF-WAY
TYPICAL CROSS SECTION
(NO SCALE)
APPENDIX D

TYPICAL DETAILS/FIGURES

Detail 1  Title Block and Signature Space
Detail 2  Method of Setting Precast Concrete and Granite Edging
Detail 2A Typical Granite Curb Inlet
Detail 2B Granite Transition Curb
Detail 3  Wheelchair Ramps for Sidewalk up to 8' Wide (See also ADA Requirements)
Detail 4  Wheelchair Ramps for Sidewalk over 8' Wide (See also ADA Requirements)
Detail 5  Precast Concrete Catch Basin
Detail 6  Catch Basin Frame
Detail 7  Massachusetts Cascade Grate
Detail 8  Cascade Bar Design for Massachusetts Cascade Grate
Detail 9  Frame for Massachusetts Cascade Grate
Detail 10 Catch Basin Hood
Detail 11 Precast Concrete Manhole 9 Feet or Less in Depth
Detail 12 Special Manholes for 35° to 84° Diameter R.C. Pipe
Detail 13 Manhole Frame and Cover
Detail 14 Manhole Cover
Detail 15 Concrete Collars
Detail 16 Asphalt Coated Corrugated Steel Metal Pipe
Detail 17 Concrete and Field Stone Masonry Ends for "8" to 30" Pipe Culvert
Detail 18 Concrete and Field Stone Masonry Combination Ends for Pipes up to 30" Diameter
Detail 19 Concrete and Field Stone Masonry Ends for 30" to 84" Pipe Culverts
Detail 20 Reinforced Concrete Pipe Flared Ends
Detail 21 Standard Metal End
Detail 22 Low Retaining Walls
Detail 23 Cemented Stone Masonry Wall
Detail 24 Steel Beam Guard Rail with Wood Post
Detail 25 Wood Post and Rail Guardrail
Detail 26 Bounds
Detail 27 Tree Wells
Figure 28 Easement Locations in the Town Center
Figure 29 Easement Locations - General
Figure 30 Pedestrian Ways/Sidewalks in the Town Center
Figure 31 Right of Way Widths and Alignments - Design Speed of 15 MPH
Figure 32 Right of Way Widths and Alignments - Design Speed of 20 MPH
Figure 33 Right of Way Widths and Alignments - Design Speed of 25 MPH
Figure 34 Right of Way Widths and Alignments - Design Speed of 30 MPH
Figure 35 Curb Radius Construction for Intersection of State and Local Roadways
Figure 36 Frontage Road Location
Figure 37 On-Street Parking
Figure 38 Location of Street Trees and Street Lights
Figure 39 Tree Grate and Tree Guard
Figure 40 Decorative Street Light
Figure 41 Crosswalk Markings
Figure 42 Street Furniture
Figure 43 Cul de sac Easement Detail

All other details are in accordance with MHD Standard Specifications
See also Board of Water Commissioners requirements/details
SAMPLE TITLE

SUBDIVISION NAME

A SUBDIVISION IN NORFOLK, MASS.

SHEET TITLE

DATE

SCALE

OWNER

NAME

ADDRESS

PREPARED BY

NAME

ADDRESS

① KEY PLAN
LOT LAYOUT
PLAN & PROFILE

(Street name and stations)

② CIVIL ENGINEER & LAND SURVEYOR
OR COMPANY
METHOD OF SETTING
PRE-CAST CONCRETE EDGING AND GRANITE EDGING

SLOPED GRANITE EDGING

PRE-CAST EDGING

NOTES:
1. ANY CLASS CEMENT CONCRETE THAT IS ACCEPTABLE TO THE DEPARTMENT UNDER SECTION M-4 OF
   THE 1973 STANDARD SPECIFICATIONS; ALL TEST REQUIREMENTS ARE WAIVED. BITUMINOUS
   CONCRETE IS NOT TO BE USED AS A SUBSTITUTE.
2. PAYMENT FOR CEMENT CONCRETE WILL BE INCLUDED IN THE PRICE PER LINEAL FOOT OF PRE-CAST
   OR GRANITE EDGING.
3. FOR DETAILS OF PRE-CAST EDGING, SEE 106.4.0
4. THE REVEAL IS TO BE 4" UNDER ALL CONDITIONS.
TYPICAL GRANITE CURB INLET

NOT TO SCALE
BRICK, CEMENT AND BITUMINOUS CONCRETE WHEELCHAIR RAMPS

4.0' TO <11.0' * SIDEWALK

**LEGEND**

- **Lfh**: High Side Front Transition Length (See Table I)
- **Lbh**: High Side Back Transition Length (See Table II)
- **Lbi**: Low Side Back Transition Length (See Table III)
- **W**: Sidewalk Width
- **W1**: Wheelchair Ramp Length
- **B & CC**: Brick & Cement Concrete
- **BC**: Bituminous Concrete

**SECTION A-A**

*Where the sidewalk width is 7.4' or greater for bituminous concrete and 8.0' or greater for cement concrete and brick, the back transition lengths (Lfh, Lbh) shall equal zero (0). Therefore, the diagonal score line shall meet the back corners of the wheelchair ramp. It should be noted that the ramp slope shall be less than 11.0' for bituminous concrete and greater than 8.0' to less than 11.0' for cement and brick. (See Table IV).*
BRICK, CEMENT AND BITUMINOUS CONCRETE WHEELCHAIR RAMPS

11.0' AND UP SIDEWALK

SIDEWALK

W

BBCC = 1/4' FT.
BC = 3/16' FT.

1:12 SLOPE MAX.

3'-6" MIN.

HIGH SIDE TRANSITION

LPH

6" GRANITE CURB

EDGE OF ROADWAY

LOW SIDE TRANSITION

6'-0"

W = 11.0' AND UP

BBCC = 8.0'
BC = 7.4'

1:12 SLOPE MAX.

NOTE:
The length of the area behind the wheelchair ramp length (W1) shall not be less than 3.0' and shall increase as the sidewalk increases. If the curb reveal should be larger than six (6''), use the 4.0' to < 11.0' design.

LEGEND
LPH = HIGH SIDE FRONT TRANSITION LENGTH (SEE TABLE 1)
W = SIDEWALK WIDTH
W1 = WHEELCHAIR RAMP LENGTH
BBCC = BRICK & CEMENT CONCRETE
BC = BITUMINOUS CONCRETE

SECTION C-C
NOTES:
1. DETAILS NOT INDICATED ABOVE ARE TO BE SIMILAR TO THOSE SHOWN ON 201.2.0, 201.3.0
2. FACE OF PIPE FLUSH OR NOT TO PROJECT MORE THAN 4" FROM FACE OF WALL
   ALONG CENTERLINE OF PIPE.
3. FOR DESCRIPTION, MATERIALS AND CONSTRUCTION METHOD, SEE SPECIFICATIONS.
   * MINIMUM DEPTH OF SUMP TO BE 2'
   ** WHEN A CURB INLET IS INSTALLED, THE OPENING IS TO BE 24" X 27" X 1"
NOTES:
1. MINIMUM FRAME WEIGHT:
   4 FLANGE - 295 LBS.
   3 FLANGE - 265 LBS.
2. MATERIAL - CAST IRON, SEE SPECIFICATIONS
3. TO BE USED WITH STANDARD GRATES TYPE A-1, A-3 AND MASSACHUSETTS CASCADe GRATE
NOTES:
1. THIS CATCH BASIN GRATE IS PATENTED. THE PATENT HOLDER GRANTS FREE LICENSE TO ANY COMPANY TO MANUFACTURE AND SUPPLY THIS GRATE FOR HIGHWAY PROJECTS ONLY IN MASSACHUSETTS, THE ABOVE TO BE NOTED ON THE CONSTRUCTION PLANS WHEN APPLICABLE.
2. THE DETAILS OF THE GRATE AS SHOWN ABOVE IS FOR A WATER FLOW COMING FROM THE RIGHT DESIGNATED AS A RIGHT GRATE. WHEN THE FLOW IS FROM THE LEFT (DESIGNATED LEFT GRATE) IT IS TO BE TURNED 90° FROM THE POSITION SHOWN ABOVE. THE DIRECTION OF FLOW SHOULD BE SHOWN ON THE DRAINAGE PLANS WHEN THE ABOVE GRATE IS USED.
3. THE GRATE IS NOT TO BE USED ON EXPRESSWAYS, FREEWAYS, ETC. IT IS ONLY PLACED ON FACILITIES WHERE BICYCLE TRAVEL IS LEGALLY ALLOWED. THE LOCAL COMMUNITY SHOULD BE MADE AWARE OF THE USE OF THESE GRATES ON CHAPRTER 80 PROJECTS THAT MAY PREFER THEIR OWN STANDARD GRATE.
4. THE GRATE IS TO BE MADE OF CAST IRON (SEE SPECIFICATIONS).
CASCADE BAR DESIGN
FOR MASSACHUSETTS CASCADE GRATE

NOTES:
1. ALL DIMENSIONS ARE THOSE OF FINISHED CASTING.
2. NOTE NO. 1 ON CONSTRUCTION STANDARDS 2.01.7.0 APPLIES TO THE ABOVE.
FRAME FOR MASSACHUSETTS CASCADE GRATE

PLAN

FLOW (RIGHT HAND GRATE)

SEE NOTE NO. 4

SECTION A-A

NOTES:
1. THE MASSACHUSETTS STANDARD FRAME IS TO BE USED, DETAILS AND DIMENSIONS NOT SHOWN ABOVE ARE TO BE THE SAME AS THOSE SHOWN ON CONSTRUCTION STANDARD 201.6.0
2. A THREE (3) FLANGE FRAME IS TO BE USED WHEN A CURB INLET IS REQUIRED
3. GRATE DETAILS ARE SHOWN ON CONSTRUCTION STANDARD 201.7.0
4. THE GRATE AS PLACED ABOVE IS FOR WATER COMING FROM THE RIGHT. TURN THE GRATE 180° FOR A WATER FLOW FROM THE LEFT. SEE NOTE NO. 2 ON CONSTRUCTION STANDARD 201.7.0
5. THE GRATE IS ONLY SHOWN SCHEMATICALLY
CATCH BASIN HOOD

DIMENSIONS

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DETAIL 'A' HINGE

BRASS BOLT & NUT

HOODS TO BE GRAY CAST IRON AASHTO CLASS 30

MASS. D.P.W. — MARCH 1977
PRECAST CONCRETE MANHOLE
9 FEET OR LESS IN DEPTH

NOTE: FOR DESCRIPTIONS, MATERIALS, AND CONSTRUCTION METHODS; SEE LATEST SPECIFICATIONS

PRECAST UNIT

PRECAST BASE

CAST IN PLACE BASE

MASS. D.P.W. — MARCH 1977
MANHOLE FRAME AND COVER

SECTION A-A

MACHINED

SEE DETAIL Y

24"

26 1/2"

TYPE-B FRAME

NOTE:
MINIMUM FRAME WEIGHT 265 LBS.
MATERIAL - CAST IRON

FRAME SET IN FULL BED OF MORTAR

MORTAR

24" ± 1" OPENING

MINIMUM 6" MASONRY WALL

DETAIL Y

STANDARD COVER
FOR COVER DETAIL, SEE 202.8.0

MASS. D.P.W. - MARCH 1977
CONCRETE COLLARS

PLAN

12"

24"

SECTION A-A
MANHOLES

SECTION B-B
CATCH BASINS

BITUMINOUS CONCRETE TOP COURSE

TAR PAPER

BITUMINOUS CONCRETE TOP COURSE

SECTION C-C
ROUND
WATER SERVICE BOXES

SECTION D-D
SQUARE

NOTES:
1. COLLARS TO BE CLASS "A" CEMENT CONCRETE MASONRY REGULAR OR H.E.S. AS DIRECTED (IF HAND MIXED
SEE LATEST STANDARD SPECIFICATIONS)
2. NO CONCRETE REQUIRED IN CONCRETE PAVEMENT.
# Table of Minimum Gauge

**Asphalt Coated Corrugated Steel Metal Pipe**

**Notes:**
1. All pipe below solid line to be shop strutted as per state specifications.
2. Minimum cover is top of pipe to road grade.

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### Concrete and Field Stone Masonry Ends for 8" to 30" Pipe Culvert

**Front Elevation**

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**Note:**
1. For descriptions, materials and construction methods, see latest specifications.
2. All concrete dimensions shown are minimum.
3. Payments will be based on the accompanying table.

### Concrete Cradle for Pipe Culverts

- **End Elevation**
- **Class "C" Cement Concrete**
- **Only to be used where specified**
CONCRETE AND FIELDSTONE MASONRY

COMBINATION ENDS FOR PIPES UP TO 30" DIAMETER

FIELD STONE MASONRY ENDS

1" PORT. CEMENT MORTAR CAP

END ELEVATION

NOTE: 1. FOR DESCRIPTIONS, MATERIALS, AND CONSTRUCTION METHODS, SEE SPECIFICATIONS.
2. ALL CONCRETE DIMENSIONS SHOWN ARE MINIMUM.
3. PAYMENTS WILL BE BASED ON THE QUANTITIES SHOWN IN THE ACCOMPANYING TABLE.
REINFORCED CONCRETE PIPE FLARED ENDS

FOR BELL & SPIGOT PIPE

FOR TONGUE & GROOVE PIPE

NOTES:
1. SEE SPECIFICATIONS FOR THE TYPE OF PIPE TO BE USED (BELL, SPIGOT OR TONGUE & GROOVE)
2. SEE SPECIFICATIONS FOR THE TYPE AND PLACING OF STEEL REINFORCEMENT
3. THE JOINTS ARE TO BE COMPATIBLE WITH THE MAIN RUN OF PIPE

MASS. D.P.W. — MARCH 1977
STANDARD METAL END

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<td>48</td>
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</table>

ALTERNATE CONNECTIONS

FOR 12" TO 24" ONLY

NOTE:
1. TOE PLATE TO BE PUNCHED TO MATCH HOLES IN SKIRT. LIP, 3/8" GALVANIZED BOLTS TO BE FURNISHED. LENGTH OF TOE PLATE TO BE W+10" FOR 12" TO 30" DIA. PIPE AND W+22" FOR 36" TO 48" DIA. PIPE.
2. SKIRT SECTION FOR 12" TO 24" DIA. PIPE TO BE MADE IN ONE PIECE; SKIRT SECTION FOR 30" TO 48" DIA. PIPE MAY BE MADE FROM TWO SHEETS JOINED BY RIVETING OR BOLTING ON CENTER LINE WITH 3/8" DIA. FASTENERS.
3. CONNECTOR SECTION, TOE PLATE AND SKIRT TO BE OF SAME GAGE METAL; EACH TO BE GALVANIZED AND COATED WITH A TAR BASE PAINT.
4. FOR DESCRIPTION, MATERIALS AND CONSTRUCTION METHODS, SEE LATEST SPECIFICATIONS.

MASS. D.P.W. — MARCH 1977
LOW RETAINING WALLS

NOTES:
1. CLASS "A" CEMENT CONCRETE TO BE USED.
2. EXPANSION JOINTS TO BE PLACED 90° O.C. MAXIMUM WITH INTERMEDIATE CONSTRUCTION JOINTS PLACED AT 30° O.C. MAXIMUM.
3. ALL CONCRETE DIMENSIONS SHOWN ARE MINIMUM.
4. PAYMENTS WILL BE BASED ON TABLE BELOW.

<table>
<thead>
<tr>
<th>HEIGHTS</th>
<th>WIDTH</th>
<th>AREA</th>
<th>CU. YDS. PER LIN. FT.</th>
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</thead>
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<td>W 2'-4&quot;</td>
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<td>T 4'-6&quot;</td>
<td>W 2'-6&quot;</td>
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<tr>
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<td>T 5'-0&quot;</td>
<td>W 2'-8&quot;</td>
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</tr>
<tr>
<td>A 3'-6&quot;</td>
<td>T 5'-6&quot;</td>
<td>W 2'-10&quot;</td>
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<td>T 6'-0&quot;</td>
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</tr>
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<td>A 4'-6&quot;</td>
<td>T 6'-6&quot;</td>
<td>W 3'-2&quot;</td>
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<tr>
<td>A 5'-0&quot;</td>
<td>T 7'-0&quot;</td>
<td>W 3'-4&quot;</td>
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CEMENTED STONE MASONRY WALL

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<th>Concre. Masonry Footing</th>
<th>Stone Masonry Excluding Coping</th>
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</tbody>
</table>

NOTES:
1. COPING OVERHANG TO BE APPROXIMATELY 3'" FOR WAYS 10' OR MORE IN HEIGHT AND APPROXIMATELY 2'" FOR WALLS LESS THAN 10' IN HEIGHT; IN A CONTINUOUS WALL OF VARYING HEIGHT, THE OVERHANG WILL BE APPROXIMATELY 2'" TO 3'" FOR THE ENTIRE LENGTH.
2. ALL DIMENSIONS SHOWN ARE MINIMUM
3. PAYMENT WILL BE BASED ON THE ACCOMPANYING TABLE

COPING TO BE PRECAST CONCRETE OR GRANITE OF UNIFORM DEPTH FOR ENTIRE LENGTH, DEPTH OF CONCRETE TO BE 3/4" THE AVERAGE "H" WITHIN THE LIMITS SHOWN, DEPTH OF GRANITE TO BE AS SHOWN ON THE PLANS, 6" OR 9".

FOR CHAIN LINK FENCE ON TOP OF WALL, THE COPING SHALL BE CONCRETE CAST-IN-PLACE WITH A MINIMUM DEPTH OF 12" THE LENGTH OF GALVANIZED PIPE SLEEVES FOR FENCE POSTS SHALL BE EQUAL TO THE DEPTH OF COPING.
STEEL BEAM GUARD RAIL WITH WOOD POST

NOTES:
1. POST SPACINGS, APPROACH END & TRAILING ENDS ARE SIMILAR TO THOSE SHOWN FOR STEEL "H" POSTS.
2. ALL NUTS, BOLTS & WASHERS ARE TO BE GALVANIZED.
3. ALL MATERIALS & DIMENSIONS OF FITTINGS NOT SHOWN ABOVE ARE TO BE SIMILAR TO THE CORRESPONDING ELEMENTS SHOWN FOR STEEL "H" POSTS.
4. TERMINAL SECTIONS FOR DOUBLE FACE & SINGLE FACE GUARD RAIL ARE SHOWN ON DRAWING 401.6.0, 401.8.0.
5. ALL SPLICES ARE TO BE MADE AT POSTS.
6. FOR THE TYPE OF WOOD AND WOOD TREATMENT, OTHER MATERIALS & METHODS OF CONSTRUCTION, SEE SPECIFICATION & SPECIAL PROVISIONS.
7. FOR DETAILS OF SLOT IN BACK-UP PLATE SEE 401.7.0 AND 401.8.0.
8. BACK-UP PLATE IS PLACED BEHIND RAIL ELEMENTS AT INTERMEDIATE POSTS I.E. NON SPLICE LOCATION.
9. STEEL POSTS ARE TO BE SUBSTITUTED AT THE SAME BID PRICE, FOR CERTAIN WOOD POSTS IN A WOOD POST RUN WHEN CONCRETE IMBEDMENT IS REQUIRED.
10. WHEN PLACED IN MEDIAN CHANGE TO THIRBE BEAM, AND CHANGE HEIGHT TO 2'-6 1/2" ± 1".

MASS. D.P.W. — MARCH 1977

401.10.0
WOOD POSTS AND RAILS

SINGLE RAIL

DOUBLE RAIL

POST DETAIL

NOTES:
1. ALL NUTS, BOLTS & WASHERS ARE TO BE GALVANIZED.
2. ALL SPLICES ARE TO BE MADE AT POSTS.
3. FOR THE TYPE OF WOOD AND WOOD TREATMENT, OTHER MATERIALS & METHODS OF CONSTRUCTION, SEE SPECIFICATIONS AND SPECIAL PROVISIONS.
4. WOOD RAILS SHALL END AT POST AND NOT RAMP TO GROUND.
CONCRETE BOUNDS

- Class "D" cement concrete shall be used for conc. bounds.
- Circular lead plug 2" long cast in center of bound, 1/2" diam. at top and 5/8" diam. at bottom.
- 4 #4 steel reinf. bars.
- 1/2" diam. hole in center of top, 1 1/2" deep; flared at bottom; rammed with lead rope.

PLAIN

LETTERED

GROUND LINE

SECTION THRU LETTER

90°

TOP AND TOP 12 INCHES ON THREE SIDES TO BE POINTED. TOP 12 INCHES ON FACE TO BE HAMMER DRESSED.

GRANITE BOUNDS

- Bounds to be located in lawns, sidewalks or drives shall be set with top of bound 2" below ground line.

NOTE

For descriptions, materials and construction methods, see specifications.
## TREE WELLS

**Note:**
Stones shall not be less than 12" long.

**Plan**

**Section**

**Dry Field Stone Masonry**

**Open Area or Well**

**Fill to be selected permeable material**

**Natural Ground Line**

### Table Showing Cubic Yards of Dry Stone Masonry

<table>
<thead>
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<th>Diam. of Tree in Inches</th>
<th>Depth of Well in Feet</th>
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</table>

Based on walls 12" thick, inside diam. 36" greater than diam. of tree.
FIGURE 28

EASEMENT LOCATIONS IN THE TOWN CENTER

11' R.O.W. - 11' MIN. PEDESTRIAN WAY EASEMENT

TOTAL EASEMENT AREA

- 8' MIN. BIT. CONC. SIDEWALK
- 3' MIN. TREE EASEMENT

MAY BE REDUCED TO 2' MIN.

PAVED ROAD

PROPERTY LINE

BUILDING

GRASS STRIP

UTILITIES MAY BE LOCATED UNDER PARKING AREAS

N.T.S.
EASEMENT LOCATIONS—GENERAL

10' TREE EASEMENT

5' UTILITIES
(MAY ALSO BE LOCATED UNDER ENTIRE EASEMENT AREA AS NECESSARY)

5' SIDEWALK

35' TREE SPACING

10' (TYP)

PAVED ROAD

20' TOTAL EASEMENT AREA

10' (TYP)

PROPERTY LINE
(TYP)

GRASS STRIP
(25' WIDE)

N.T.S.
PEDESTRIAN WAYS/SIDEWALKS
IN THE TOWN CENTER

DECORATIVE TRASH RECEPTACLE
(CENTERED IN GRASS STRIP/
TREE EASEMENT)

BITUMINOUS CONCRETE
CEMENT SIDEWALK

DECORATIVE STREET LIGHT
(CENTERED IN GRASS STRIP/
TREE EASEMENT)

PEDESTRIAN WAY

BUILDING

DECORATIVE BENCH

PAVED ROADWAY

RIGHT-OF-WAY

GRASS STRIP

N.T.S.
RIGHT-OF-WAY WIDTHS AND ALIGNMENTS – DESIGN SPEED

DESIGN SPEED – 15 MPH

SWEL = SINGLE WHITE EDGE LINE
DYCL = DOUBLE YELLOW CENTER LINE

ONE WAY, NO PARKING

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<th>SWEL</th>
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<th>CURB</th>
<th>R.O.W.</th>
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<td>33'</td>
<td>11'</td>
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<td>11'</td>
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ONE WAY, PARKING 1 SIDE

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ONE WAY, PARKING 2 SIDES

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<th>SWEL</th>
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<th>CURB</th>
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<th>11'</th>
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TWO WAY, NO PARKING

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<th>SWEL</th>
<th>11'</th>
<th>DYCL</th>
<th>SWEL</th>
<th>11'</th>
<th>CURB</th>
<th>R.O.W.</th>
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<tbody>
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<td>44'</td>
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TWO WAY, PARKING 1 SIDE

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<th>R.O.W.</th>
<th>Curb</th>
<th>SWEL</th>
<th>11'</th>
<th>CURB</th>
<th>SWEL</th>
<th>11'</th>
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<tbody>
<tr>
<td>Width</td>
<td>32'</td>
<td>52'</td>
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TWO WAY, PARKING 2 SIDES

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<th>R.O.W.</th>
<th>Curb</th>
<th>SWEL</th>
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<tr>
<td>Width</td>
<td>40'</td>
<td>60'</td>
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RIGHT-OF-WAY WIDTHS AND ALIGNMENTS - DESIGN SPEED

DESIGN SPEED - 20 MPH

SWEL = SINGLE WHITE EDGE LINE
DYCL = DOUBLE YELLOW CENTER LINE

ONE WAY, NO PARKING

10' (TYP)
CURB
R.O.W.

12'
SWEL

12'
SWEL

1' (TYP)
R.O.W.

14' PAVEMENT
34' RIGHT-OF-WAY

ONE WAY, PARKING 1 SIDE

1' (TYP)
CURB
R.O.W.

9'
SWEL

12'
R.O.W.

22' PAVEMENT
42' RIGHT-OF-WAY

ONE WAY, PARKING 2 SIDES

10' (TYP)
CURB
R.O.W.

9'(TYP)
13'
CURB
R.O.W.

31' PAVEMENT
51' RIGHT-OF-WAY

TWO WAY, NO PARKING

10' (TYP)
CURB
R.O.W.

1' (TYP)
SWEL

12'
R.O.W.

1' (TYP)

DYCL

12'
SWEL

1' (TYP)
CURB
R.O.W.

26' PAVEMENT
46' RIGHT-OF-WAY

TWO WAY, PARKING 1 SIDE

10' (TYP)
CURB
R.O.W.

12'
SWEL

9'(TYP)
12'
CURB
R.O.W.

33' PAVEMENT
53' RIGHT-OF-WAY

TWO WAY, PARKING 2 SIDES

10' (TYP)
CURB
R.O.W.

9'
12'
DYCL

9'
12'
CURB
R.O.W.

42' PAVEMENT
62' RIGHT-OF-WAY
RIGHT-OF-WAY WIDTHS AND ALIGNMENTS — DESIGN SPEED

DESIGN SPEED — 25 MPH

SWEL=SINGLE WHITE EDGE LINE
DYCL=DOUBLE YELLOW CENTER LINE

ONE WAY, NO PARKING

Curb

SWEL 12'

SWEL 2' (Typ)

R.O.W.

16' PAVEMENT
36' RIGHT-OF-WAY

ONE WAY, PARKING 1 SIDE

Curb

R.O.W.

2' (Typ)

9' SWEL

12'

R.O.W.

23' PAVEMENT
43' RIGHT-OF-WAY

ONE WAY, PARKING 2 SIDES

Curb

R.O.W.

9' (Typ)

13'

R.O.W.

31' PAVEMENT
51' RIGHT-OF-WAY

TWO WAY, NO PARKING

Curb

R.O.W.

2' (Typ)

9' SWEL

12'

DYCL

R.O.W.

1' (Typ)

26' PAVEMENT
46' RIGHT-OF-WAY

TWO WAY, PARKING 1 SIDE

Curb

R.O.W.

SWEL 12'

DYCL 1' (Typ)

9'

Curb

R.O.W.

34' PAVEMENT
54' RIGHT-OF-WAY

TWO WAY, PARKING 2 SIDES

Curb

R.O.W.

DYCL 12'

9'

Curb

R.O.W.

42' PAVEMENT
62' RIGHT-OF-WAY

N.T.S.

FIGURE 33
RIGHT-OF-WAY WIDTHS AND ALIGNMENTS — DESIGN SPEED

DESIGN SPEED — 30 MPH

SWEL = SINGLE WHITE EDGE LINE
DYCL = DOUBLE YELLOW CENTER LINE

ONE WAY, NO PARKING

16' PAVEMENT
36' RIGHT-OF-WAY

ONE WAY, PARKING 1 SIDE

24' PAVEMENT
44' RIGHT-OF-WAY

ONE WAY, PARKING 2 SIDES

33' PAVEMENT
53' RIGHT-OF-WAY

TWO WAY, NO PARKING

28' PAVEMENT
48' RIGHT-OF-WAY

TWO WAY, PARKING 1 SIDE

35' PAVEMENT
55' RIGHT-OF-WAY

TWO WAY, PARKING 2 SIDES

42' PAVEMENT
62' RIGHT-OF-WAY
CURB RADIUS CONSTRUCTION FOR INTERSECTION
OF STATE AND LOCAL ROADWAYS

DETAIL OF GRANITE RUBBLE PAVEMENT

NOTES:
1. MATERIALS AND CONSTRUCTION
   METHODS SHALL CONFORM TO M.D.P.W. STANDARD
   SPECIFICATION, SECTION 485.
2. LAY BLOCKS TRANVERSE TO DIRECTION OF TRAVEL.

N.T.S.
ON-STREET PARKING

SECTION A-A

GRASS STRIP

ON-STREET PARKING SPACES (9'x19')

GRASS STRIP

R.O.W.

8' MIN. BIT. CONC. SIDEWALK

BUILDING

PROPERTY LINE

4' WIDE CROSSWALK

PAVED ROAD

N.T.S.
LOCATION OF STREET TREES AND STREET LIGHTS

- Decorative Street Light
- Pedestrian Way Easement
- Bituminous Concrete Cement Sidewalk
- Paved Roadway
- Tree Easement
- Right-Of-Way
- Grass Strip

N.T.S.
TREE GRATE AND TREE GUARD

TREE GRATE
- BLACK HIGH DENSITY POLYETHYLENE RESIN (CONFORMING TO ASTM D-638)
- 4' OR 5' SQUARE IN TWO SECTIONS DEPENDING ON SELECTED TREE SPECIES.

CONCRETE SURROUNDED INSTALLATION

TREE GUARD
- BLACK WROUGHT IRON
- 4' HIGH
- WIDTH TO BE SIZED APPROPRIATELY FOR SELECTED TREE SPECIES
NOTICE:
THIS DRAWING IS FOR REFERENCE ONLY. CHECK FOR LATEST REVISION PRIOR TO ORDERING

CAGF DETAIL
SCALE 1:10

FINISH: BLACK

FIXTURE DIMENSIONS:
HEIGHT: 45 1/4"
WIDTH: 17"

POLE: 10'
SHAFT: 5" DIA., FLAT FLUTE
-.188-.267 WALL THICKNESS
6005-T5 ALUMINUM ALLOY

ACCESS DOOR

OPTIONAL:
URD HOUSE-SIDE SHIELD

POLE CIRCLE: 12" DIA.
4 HOLES 90° APART
BASE: 12 3/4" x 45TH

CAST ALUMINUM FINAL
CAST ALUMINUM HINGED ROOF AVAILABLE IN
SOLID TOP (SHOWN) OR WITH TRANSLUCENT PANELS (SPECIFY)
REMOVABLE PRISMATIC ACRYLIC OR POLYCARBONATE REFRACTOR PANELS, TYPE II OR V DISTRIBUTION (SPECIFY)
CAST ALUMINUM CAGE
PORCELAIN SOCKET (SPECIFY MEDIUM OR MODUL BASE) LAMP BY OTHERS
SPUN BALLAST COVER
FACTORY PREWIRED AND TESTED BALLAST 100W PH (SPECIFY VOLTAGE)
CAST ALUMINUM BALLAST ENCLOSURE WITH HINGED DOOR (OPTIONAL RECEPTACLE FOR PHOTO EYE SHOWN)
3" LD. SLIP FITTER
STAINLESS STEEL FASTENERS

S6412: FIXTURE
SP6412: 10' POLE

REVISED: 8/4/98 TAG ADDED H.S.S.

HARCOCO
ARCHITECTURAL OUTDOOR LIGHTING
100 Craftway P.O. Box 128
Littleton, Pennsylvania 17340-028
Phone 717-359-7131
Fax 717-359-9515

JOB NAME: TOWN OF NORFOLK, MA

SCALE: DATE: DRAWN BY: DRAWING NUMBER:
1:16 07/09/98 TAG S6412

REP: HURRY 2 ASSOC.

FIGURE 40
CROSSWALK MARKINGS

YELLOW REFLECTORIZED VERTICAL STRIPING (6"x4")
STREET FURNITURE

DECORATIVE BENCH

HARDWOOD SLATS

60"

18"

18 1/2"

27"

STAINLESS STEEL BUTTONHEAD SCREWS

TOWN LOGO MEDALLION (OPTIONAL)

BLACK CAST IRON (LEGGS AND TRIM)

TRASH RECEPTACLE

BLACK METAL COVER

HARDWOOD SLATS

27 1/8"

TOWN LOGO MEDALLION (OPTIONAL)

BLACK CAST IRON (LEGGS AND TRIM)

STAINLESS STEEL BUTTONHEAD SCREWS

23"

EXAMPLE MODELS: VERMONT IRON, INC., "PLAZA BENCH" AND "TRASH RECEPTACLE"—"THE CATAMOUNT LINE", OR EQUAL.

N.T.S.
SPECIAL PERMIT

RULES AND REGULATIONS

TOWN OF NORFOLK
PLANNING BOARD
ONE LIBERTY LANE
NORFOLK, MASSACHUSETTS 02056

www.virtualnorfolk.org
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Article I Organization</td>
<td>1</td>
</tr>
<tr>
<td>Article II Application Form</td>
<td>4</td>
</tr>
<tr>
<td>Article III Procedure</td>
<td>6</td>
</tr>
<tr>
<td>Article IV Disposition by the Board</td>
<td>7</td>
</tr>
<tr>
<td>Article V Special Permits for Open Space Preservation Developments</td>
<td>9</td>
</tr>
<tr>
<td>Article VI Special Permits for Complex Sites with Mixed and Residential Uses (Comprehensive Plans)</td>
<td>12</td>
</tr>
<tr>
<td>Article VII Schedule of Fees</td>
<td>15</td>
</tr>
<tr>
<td>Appendix A Special Permit Application Form</td>
<td></td>
</tr>
</tbody>
</table>
RULES AND REGULATIONS
REQUIRED BY SECTION 12 OF CHAPTER 40A,
OF THE GENERAL LAWS OF MASSACHUSETTS, AS AMENDED

ARTICLE I: ORGANIZATION

The Planning Board is authorized under Section G.6. of the Zoning Bylaws of the Town of Norfolk as a Permit Granting/Special Permit Granting Authority. The Board as a Special Permit Granting Authority is governed by and shall act in accordance with Chapter 40A of the General Laws of Massachusetts, as amended, and the Zoning Bylaws of the Town of Norfolk, as amended. These rules and regulations govern the method of operation of the day-to-day activities of the board in connection with Special Permits and are in accordance with the applicable law and bylaw. These rules may be changed by the concurrence of three board members at a regular or special meeting. These rules and any changes are effective as of the date filed with the Town Clerk. Wherever these rules and regulations are not definitive and the Mass. General Laws do not place restrictions, the Board's operation shall be governed by Roberts Rules of Order, as most recently revised.

SECTION 1: OFFICERS

The officers of the Planning Board shall consist of a chairperson, vice-chairperson and clerk. The election of these officers shall take place no later than the first meeting after June 1. The election shall be by simple majority of the board members present. From time to time it may become necessary to fill a vacant position; this shall take place at the first convenient time following the termination, resignation, or otherwise removal of an officer. All officers shall be members of the board. Associate members shall not hold an office; nor shall they be allowed to participate in the election of officers.

SECTION 2: CHAIRPERSON - POWERS AND DUTIES

The Chairperson may vote and be recorded on all matters coming before the board. Subject to these rules, he/she shall decide all points of order, unless overruled by a majority of the board in session at the time. He/she shall appoint such committees as may be found necessary or desirable.

In addition to powers granted by general laws and local bylaws, and subject to these rules and further instructions of the board, the chairperson shall transact the official business of the board, supervise the work of the clerk, request necessary help, direct the work of all subordinates, and exercise general supervisory powers. He/she shall at each meeting, report on all official transactions that have not otherwise come to the attention of the board.
SECTION 3: VICE-CHAIRMAN

The vice-chairman shall act as chairperson in case the chairperson is absent, disabled, or otherwise unable to perform his/her duties.

SECTION 4: CLERK

Subject to the direction of the board and its chairperson, he/she shall:

a. Prior to each meeting, the Clerk or his/her designee shall call each Full and Associate member of the Board to remind them of the meeting and to assure that at least 5 members will be present for the meeting and scheduled hearings.

b. Upon acceptance by the Board of applications for hearings for Special Permits the Clerk shall prepare the forms for the legal advertising of the hearings and submit them to the Planning Administrator.

c. The Clerk shall take notes during the hearing and deliberations and cause the hearing and deliberations to be recorded in accordance with the Open Meeting Law. After deliberations by the Board, the Clerk shall be responsible for drafting the legal decision as directed by the Board, using the detailed record and the notes from the hearing and deliberations. After the draft decision has been reviewed and voted on by the Board, the Clerk shall be responsible for delivering the final draft to the Planning Administrator in a timely manner in order that the decision may be printed, signed by members of the Board, and stamped by the Town Clerk prior to the legal deadline.

d. The Clerk shall draft other correspondence as directed by the Board to be submitted to the Planning Administrator for printing and mailing.

SECTION 5: ALTERNATE MEMBERS

The Chairperson of the board shall designate an alternate member to sit on the board in case of the absence, inability to act, or conflict of interest on the part of any board member. In the event of a vacancy on the board, the chairperson may designate an alternate member to act as a member of the board until someone is appointed to fill the unexpired portion of the vacated term.

SECTION 6: QUORUM

Requires 4 members. The quorum may be made up of any combination of members and associate members.

SECTION 7: REGULAR MEETINGS

Regular meetings of the Planning Board shall be held at 7:30 p.m. on
Tuesdays. If a regular meeting day falls on a holiday or federal, state, or town election day, the meeting shall be held on the day following or at such time and place advertised.

SECTION 8: SPECIAL MEETINGS

Special meetings may be called by the chairperson, or at the request of two members. Notice thereof shall be given to each member at least 48 hours before the time set. Notices shall be posted publicly as required by law on the bulletin board at the Town Hall.
ARTICLE II
APPLICATIONS TO THE BOARD

SECTION 1: APPLICATION FORM

Every application for action by the board shall be made on the official form. These forms shall be furnished by the Town Clerk or Planning Administrator upon request. Any communication, purporting to be an application, shall be treated as mere notice of intention to seek relief, until such time as it is made on the official application form. All information called for by the form shall be furnished by the applicant in the manner therein prescribed. Failure to provide all requested information may be cause for the Board to reject the application.

SECTION 2: FILING PERIOD

Every application shall be filed within time limits specified in MGL, Chapter 40A as amended.

SECTION 3: PLAN OF LAND TO ACCOMPANY PETITION

Every application and petition to the Board shall be accompanied by twelve (12) copies of the following described plan:

The plan shall be drawn as required in the "Important Instructions and Information for Applicants" accompanying the application.

SECTION 4: CERTIFIED LIST OF ABUTTERS

All applications shall be accompanied by a list of abutters provided to the petitioner by, and certified by, the office of the Board of Assessor's. The list shall contain the names and the addresses of all abutters, abutters to abutters of the property line as long as any portion of such land of the abutters to abutters is within 300 feet of such property line. Owners of land directly opposite on any public or private street or way, as they appear on the most recent applicable tax list shall be included on the abutters list. Any fee for this list shall be paid by the petitioner at the Assessors' office or as may be specified by the Assessors' Office.
SECTION 5: APPLICATION FEES

All applications shall be accompanied by a check, payable to the Town of Norfolk, in the amount listed on the most recently revised fee schedule. In some instances, the Board may be requested to waive or reduce the applicable fee. In general, Town of Norfolk boards, or committees, religious, charitable, or other non-profit organizations, may be granted a reduced fee that covers, as a minimum, specific administrative costs (including postage, secretarial time, and mandatory legal advertising). The Board shall also consider the complexity of the application and the time required to hear it. When submitting a request for a fee reduction or waiver, the Applicant shall cite the reasons for the request; whereupon, the Board shall make a determination.
ARTICLE III - PROCEDURE

SECTION 1: NOTICE

Notice of hearings shall be advertised as required by the provisions of General Laws, Chapter 40A. In addition, a copy of the advertised notice shall be sent by mail at least 14 days prior to the date of the hearing, postage prepaid, to the applicant or petitioner, to all parties on the list provided in accordance with ARTICLE II, SECTION 4, to the Planning Board of every abutting Town, to the Building Commissioner/Zoning Officer, and to all those required by the law.

SECTION 2: HEARINGS TO BE PUBLIC

All hearings shall be open to the public and in accordance with Mass. G.L. Chapter 39, Section 23a, b, and c, as amended. ("Open Meeting Law")

SECTION 3: REPRESENTATION AND ABSENCE

An applicant may appear in his own behalf, or be represented by an agent or attorney. In the absence of any appearance without due cause by or on behalf of an applicant, the board may decide on the matter using the information it has otherwise received.

SECTION 4: ORDER OF BUSINESS

a. Introduction of the Board members
b. Reading of newspaper advertisements, petition, and legal notices by the Clerk, together with presentation of exhibits, if any
c. Applicant's presentation
c. Opponent's presentation, if any, and questions by those seeing information
d. Applicant's rebuttal, restricted to matters raised by opponent's presentation.

Members of the board, who are hearing the case, may direct appropriate questions during the hearing.
ARTICLE IV
DISPOSITION BY THE BOARD

SECTION 1: VOTING REQUIREMENT

The concurring vote of at least four (4) members of the board shall be necessary to grant a special permit. Any amendments or conditions proposed to an original motion to grant a special permit shall be declared passed, based on the amendments receiving more "yeas" than "nays". The record shall show the vote of each member upon each question or, if failing to vote, indicate reasons for its decision. A detailed record of proceedings, including the vote on each question shall be filed with the Town Clerk within fourteen days of a decision becoming final. A decision shall be considered final when 3 members sign the written decision, thus certifying it.

SECTION 2: WITHDRAWAL

An application may be withdrawn by notice in writing to the clerk at any time prior to the hearing by the board. After an advertisement, withdrawal is permitted by board approval only.

SECTION 3: APPLICATION

All applications shall be reviewed by the board. If the board decides by the concurring vote of 3 members that an application is incomplete, in error, or requests a special permit for a "use or purpose" which the board has no authority to grant under the Norfolk Zoning Bylaws, it shall be deemed invalid and the fee returned. If desired, the applicant may resubmit a completed/corrected application, which shall be treated as a new application.

SECTION 4: RECONSIDERATION

Once an application has been voted upon and the meeting adjourned, reconsideration of that decision can only occur by a majority vote of those who originally voted on the decision and only prior to date stamping by the Town Clerk, except as directed by the Court under Mass. G.L., Chapter 40A.

SECTION 5: REAPPLICATION

No application or petition which has been unfavorably and finally acted upon after hearing by the Planning Board shall be acted favorably upon within two years after the date of final unfavorable action except by decision of the Board or unless otherwise required by the provision of MGL, Chapter 40A, Section 16, as amended.
SECTION 6: ONE YEAR LIMITATION ON GRANTS: EXTENSIONS

If an application is granted by the Board, all permits necessary for the prosecution of the work shall be obtained and construction shall be commenced within one year from the date of filing of the board's decision in the office of the Town Clerk.

Reasonable extension of said time not exceeding one additional year per extension request may be granted by application to the board for any good cause or in the case of an appeal in accordance with MGL, Chapter 40A, Section 17.

SECTION 7: POLICIES AND ADVICE

Advice, opinions, or information given by any Board Member or any of any other official or employee of the Town shall not be binding on the Board.

In order to preserve the integrity of the public hearing process, it is the policy of the Board to accept information relative to any case at the appropriate public hearing, and to discourage individuals from exparte communications with members of the Board with respect to pending Special Permit applications.
ARTICLE V: SPECIAL PERMITS FOR OPEN SPACE PRESERVATION DEVELOPMENTS

SECTION 1: APPLICABILITY AND EFFECT

The rules and regulations set forth in this Article apply to all applications for Special Permits for Open Space Preservation (OSP) Developments under Section H.2 of the Zoning Bylaws. They supplement, but do not replace, other articles of these Rules and Regulations as they may apply to such Special Permit applications.

SECTION 2: CONTENTS OF CONCEPT PLANS

A Concept Plan submitted pursuant to Section H.2.1.3. of the Zoning Bylaws (Application for OSP Development Special Permit) shall not be considered complete unless it includes all of the following information:

1. The OSP development name, boundaries, north point, date, legend, title "Concept Plan," and scale.

2. The names of the record owner and the applicant, and the name of the Landscape Architect that prepared the plan.

3. The names, approximate location, and widths of adjacent streets. Verification that adequate stopping sight distance is achieved.

4. The proposed topography of the land shown at a contour interval of two (2) feet. Elevations shall be based on the Town Datum (National Geodetic Vertical Datum of 1929 (NGVD)).

5. The location of existing landscape features, including forests, farm fields, meadows, wet-lands, riverfront areas, waterbodies, archeological and historic structures or points of interest, rock outcrops, boulder fields, stone walls, cliffs, high points, major long views, forest glades, major tree groupings, noteworthy tree specimens, and habitats of endangered or threatened wildlife; and the areas to be protected as delineated in Step One of the design process (Zoning Bylaws, Section H.2.e.1.a.). Proposals for all site features to be preserved, demolished, or moved shall be noted on the Concept Plan.

6. Information on adjacent open space or resource areas that may be enhanced by the proposed subdivision shall be included in the Concept Plan.

7. All on-site local, state, and federal regulatory resource boundaries and buffer zones shall be clearly identified and all wetland flag locations shall be numbered and placed upon the Concept Plan. [A condition of the
OSP special permit will be the approval of the delineation by an Order of Conditions/Request for Determination of Applicability by the Norfolk Conservation Commission.)

8. Lines showing proposed private residential lots, as located during Step Four of the design process (Zoning Bylaws, Section H.2.e.4.), with approximate areas and frontage dimensions.

9. All existing and proposed features and amenities, including trails, recreation areas, pedestrian and bicycle paths, community buildings and off-street parking areas, shall be shown on the plan and described in a brief narrative explanation where appropriate.

10. The existing and proposed lines of streets, ways, easements and any parcel of land intended to be dedicated for public use or to be reserved by deed covenant for use of all property owners in the subdivision, or parcels of land or LOTS to be used for any purpose other than private residential shall be so designated within the subdivision in a general manner.

11. Proposed roadway grades.

12. Official soil percolation tests for the purpose of siting wastewater treatment options are not required for the Concept Plan. However, a narrative explanation shall be prepared by a registered Professional Engineer detailing the proposed wastewater systems that will be utilized by the development and its likely impacts on-site and to any abutting parcels of land. For example, the narrative will specify whether individual on-site or off-site systems, shared systems, alternative to Title 5 systems, or any combination of these or other methods will be utilized.

13. A narrative explanation prepared by a registered Professional Engineer proposing systems for stormwater drainage and its likely impacts on-site and to any abutting parcels of land. For example, the narrative will specify whether soft or hard engineering methods will be used and the number of any detention/retention basins or infiltrating catch basins, it is not intended to include specific pipe sizes. Any information needed to justify this proposal should be included in the narrative. The approximate location of any stormwater management detention/retention basins shall be shown on the plan and accompanied by a conceptual landscaping plan.

14. A narrative explanation prepared by a Registered Professional Engineer, detailing the proposed drinking water supply system.

15. A narrative explanation of the proposed quality, quantity, use and
ownership of the permanent open space. Open space parcels shall be clearly shown on the plan.

16. All proposed landscaped and buffer areas shall be noted on the plan and generally explained in a narrative.

17. A list of all legal documents necessary for implementation of the proposed development, including any Conservation Restrictions, land transfers, and Master Deeds, with an accompanying narrative explaining their general purpose.

18. A narrative indicating all requested waivers, reductions, and/or modifications as permitted within the requirements of this bylaw.

SECTION 3: WAIVER OF REQUIREMENTS FOR SMALL PROJECTS

For proposed Open Space Preservation developments containing fewer than four (4) building lots, the Planning Board may waive the requirements for specific items of information required in Section 2 above.
ARTICLE VI:
SPECIAL PERMITS FOR COMPLEX SITES WITH MIXED AND RESIDENTIAL USES
(COMPREHENSIVE PLANS)

SECTION 1: APPLICABILITY AND EFFECT

The rules and regulations set forth in this Article apply to all applications for Special Permits for Planned Multi-Lot Developments (PMLD) that require a comprehensive plan under Sections K.4.a.2 or L.4.a.2 of the Zoning Bylaws. They supplement, but do not replace, other articles of these Rules and Regulations as they may apply to such Special Permit applications.

SECTION 2: CONTENTS OF COMPREHENSIVE PLANS

A comprehensive plan submitted pursuant to Sections K.4.a.2 or L.4.a.2 of the Zoning Bylaws (Complex sites with mixed and residential uses) shall not be considered complete unless it includes all of the following information:

19. The project development name, boundaries, north point, date, legend, title "Comprehensive Plan," and scale.

20. The names of the record owner and the applicant, and the names of the engineer, architect, and landscape architect that prepared the plan.

21. The names, approximate location, and widths of adjacent streets.
   Verification that adequate stopping sight distance is achieved.

22. The proposed topography of the land shown at a contour interval of two (2) feet. Elevations shall be based on the Town Datum (National Geodetic Vertical Datum of 1929 (NGVD)).

23. The location of existing landscape features, including forests, farm fields, meadows, wet-lands, riverfront areas, waterbodies, archeological and historic structures or points of interest, rock outcrops, boulder fields, stone walls, cliffs, high points, major long views, forest glades, major tree groupings, noteworthy tree specimens, and habitats of endangered or threatened wildlife.

24. All on-site local, state, and federal regulatory resource boundaries and buffer zones shall be clearly identified and all wetland flag locations shall be numbered and placed upon the Concept Plan.
25. All existing and proposed features and amenities, including trails, recreation areas, pedestrian and bicycle paths, community buildings and off-street parking areas, shall be shown on the plan and described in a brief narrative explanation where appropriate.

26. A total circulation concept for both vehicles and pedestrians shall include existing and proposed lines of streets, ways, easements, proposed roadway grades, location and materials for sidewalks and other pedestrian ways, proposed parking areas, emergency access, links among different sections of the development (especially when both residential and commercial uses are proposed) and links to off-site areas where appropriate.

27. A landscape plan that addresses street trees, buffers between different uses and between the project and abutters, local space adjacent to housing units or other buildings, and common areas throughout the project.

28. The location and orientation of all buildings and any recreation, assembly or common areas in relation to the street network and pedestrian facilities.

29. A streetscape plan that includes streetlights, walkways, fences, benches, landscaping, building facades and/or any other amenities that contribute to a pleasant neighborhood environment.

30. Official soil percolation tests for the purpose of siting wastewater treatment options are not required for the comprehensive plan. However, a narrative explanation shall be prepared by a registered Professional Engineer detailing the proposed wastewater systems that will be utilized by the development and its likely impacts on-site and to any abutting parcels of land. For example, the narrative will specify whether individual on-site or off-site systems, shared systems, alternative to Title 5 systems, or any combination of these or other methods will be utilized. The proposed locations of these facilities shall be included on the plan.

31. A narrative explanation prepared by a registered Professional Engineer proposing systems for stormwater drainage and its likely impacts on-site and to any abutting parcels of land. For example, the narrative will specify whether soft (natural) or hard (structured) engineering methods will be used and the number of any detention/retention basins or infiltrating catch basins, it is not intended to include specific pipe sizes. Any information needed to justify this proposal should be included in the narrative. The approximate location of any stormwater management components shall be shown on the plan.
32. A narrative explanation prepared by a Registered Professional Engineer, detailing the proposed drinking water supply system.

33. Architectural building elevations of the proposed buildings for the proposed project.

With the exception of the architectural elevations and details, the elements above shall be included on a single sheet in order to clearly illustrate that they can be integrated into a feasible project that meets the requirements of the Zoning Bylaws. Additional sheets may be required to provide detailed information on specific elements of the comprehensive plan.

SECTION 3: PROCEDURES FOR COMPREHENSIVE PLANS

Any application for special permits for Planned Multi-Lot Development that require a comprehensive plan under Sections K.4.a.2 or L.4.a.2 of the Zoning Bylaws must include such comprehensive plan. The procedures for Planning Board consideration of the comprehensive plan shall be as follows:

1. The public hearing on the PMLD special permit shall be opened. The first item to be considered shall be the comprehensive plan.

2. After comments and discussion on the comprehensive plan are completed, the Planning Board shall deliberate and vote on the comprehensive plan. The hearing shall be kept open to further consider the PMLD special permit.

3. A minimum of four (4) votes shall be required to approve a comprehensive plan. The Board's decision shall be in the form of a letter informing the applicant of its decision. The decision letter may include conditions of the decision.

4. If a comprehensive plan is denied, the applicant may submit a new comprehensive plan for consideration. Once a plan is approved, the applicant may submit a more detailed site plan and other information that may be required for consideration by the Planning Board of the PMLD special permit.
ARTICLE VII  
SCHEDULE OF FEES

SECTION 1:  APPLICATION FEES

Special Permit.................................................................$750.00
  Plus $75 per each additional special permit request pertaining
  to the same site.

*Open Space Preservation Special Permit............................$1,000.00
*Planned Multi-Lot Development Special Permit....................$750.00

Extension request for Special Permit - unadvertised...............$200.00

Addendum and changes/modifications and/or relief from conditions.....$500.00

Repetitive Petition.......................................................$250.00

PLEASE NOTE:  In addition to the application fee, the applicant will be
required to reimburse the Town for any and all costs
incurred by the town to have an engineer/consultant review
the proposal as deemed necessary by the Planning Board.
(Please note Article V, Section 2, Rules and Regulations)

SECTION 2:  APPLICATION REVIEW FEES - SPECIAL MUNICIPAL ACCOUNT

a. When reviewing an application for Special Permit, the Board may
determine that the assistance of outside consultants is warranted due
to the size, scale, or complexity of a proposed project, or because
of a project's potential impacts. The Board may require that
applicants pay a "review fee" consisting of the reasonable costs
incurred or expected to be incurred by the Board for the employment
of outside consultants engaged by the Board to assist in the review
of an application.

b. In hiring outside consultants, the Board may engage engineers,
planners, lawyers, urban designers or other appropriate profes-
sionals who can assist the Board in analyzing a project to ensure
compliance with all relevant laws, bylaws, and regulations.
c. Funds received by the Board pursuant to this section shall establish a special account for this purpose. Expenditures from this special account may be made at the direction of the Board without further appropriation. Expenditures from this special account shall be made only in connection with the review of a specific project or projects for which a review fee has been or will be collected from the applicant. Failure of an applicant to pay a review fee shall be grounds for denial of the application.

d. Review fees may only be spent for services rendered in connection with the specific project from which they were collected. Accrued interest may also be spent for this purpose. At the completion of the Board's review of a project, any excess amount in the account, including interest, attributable to the project, shall be repaid to the applicant or the applicant's successor in interest. For the purpose of this regulation, any person or entity claiming to be an applicant's successor in interest shall provide the Board with documentation establishing such succession in interest.

e. Any applicant may take an administrative appeal from the selection of the outside consultant to the Board of Selectmen. The grounds for such an appeal shall be limited to claims that the consultant selected has a conflict of interest or does not possess the minimum required qualifications. The minimum qualifications shall consist either of an educational degree in, or related to, the field at issue or a related field.

The required time limit for action upon an application by the Board shall be extended by the duration of the administrative appeal. In the event that no decision is made by the Board of Selectmen within one month following the filing of the appeal, the selection made by the Board shall stand.

PLEASE NOTE: The above regulation is designed to implement the provisions of Chapter 593 of the Acts of 1989, Chapter 44, as amended.

SECTION 3: SPECIAL MUNICIPAL ACCOUNT - REVIEW FEE SCHEDULE

a. The Special Municipal Account Review Fees are to be made in connection with the review of a specific project or projects for which a review fee has been or will be collected from the applicant (Article V, Section 2). The Review Fees may be requested of the applicant in the determination of the Board that outside consultants are required and are in addition to the general fees set forth for an Application for Hearing before the Board (Article VII, Section 1). The failure of an applicant to pay a review fee, when requested, shall be grounds for denial of the application. (Article V, Section 2.c.).
b. The Review Fee Schedule as outlined in Section 3.d. of Article VII, shall be considered the initial deposit for the purposes of establishing the Special Revolving Account for the project. Any additional costs associated with the review of the project shall be borne by the applicant. The Review Fee Schedule shall be amended as necessary with the concurrence of the Board Members and shall become effective on the stamped date of the Town Clerk.

c. All Review Fees shall be payable to the "Planning Board Review account" and shall be deposited with the Town Treasurer into a special revolving account for the project.

d. REVIEW FEE SCHEDULE:

Special Permits.........................$500 per request per lot
*PMLD Special Permits.......................$500 plus $150 per lot
*Open Space Preservation Special Permits........$1,500 plus $150 per lot

*See also Norfolk Planning Board Rules and Regulations for the Subdivision of Land and Site Plan Approval fee schedule as most recently amended if part of a subdivision plan (preliminary and/or definitive) and/or involves Site Plan Approval.
TOWN OF NORFOLK
PLANNING BOARD

(508) 528-2961 - Tel
(508) 541-3377 - Fax

SPECIAL PERMIT, APPLICATION FOR HEARING

1. NAME OF APPLICANT OR APPELLANT: ________________________________

2. MAILING ADDRESS OF APPLICANT: ________________________________
   __________________________________________ ZIP CODE: ________ PHONE #: ________ FAX #: ____________

3. ADDRESS OR LOCATION OF PROPERTY - SUBJECT OF HEARING: ________________________________
   __________________________________________

4. ASSESSORS' MAP _____ BLOCK _____ LOT _____ ZONING DISTRICT: ________________________________

5. OWNER OF PROPERTY: __________________________________________

6. MAILING ADDRESS OF OWNER: __________________________________________
   __________________________________________ ZIP CODE: ________ PHONE #: ________ FAX #: ____________

7. APPLICANT IS: (CHECK) OWNER _____ TENANT _____ AUTHORIZED AGENT OF OWNER

8. NATURE OF THE APPLICATION: (CHECK)
   a. Special Permit in accordance with M.G.L., c.40A, Sec. 9, as amended
   b. Addendum requests for modification or changes to conditions of approval and/or site plans
   c. Extension requests for Special Permits
   d. Renewal requests for Special Permits
   e. Repetitive Petitions in accordance with Section 16 of Mass. G.L., Ch. 40A, as amended
9. State the EXACT NATURE of this application (see Instructions) and the APPLICABLE SECTION(s) of the Norfolk Zoning Bylaws. You may attach additional sheets if necessary.

__________________________________________________________________________
__________________________________________________________________________
__________________________________________________________________________

10. Complete the following checklist and include ALL enclosures with the application. (Refer carefully to information and instruction sheets).

   _ a. Twelve (12) copies of the site plan of land
   _ b. Three (3) copies of a list of abutters certified by the Board of Assessors
   _ c. Three (3) copies of Articles of Incorporation (if applicant is incorporated)
   _ d. Check or money order, payable to "Town of Norfolk" in the correct amount (see fee schedule included with this application)

I hereby request a hearing before the Norfolk Planning Board with reference to the above noted application.

Signed: ____________________________ Date: ____________________________

          Applicant

Signed: ____________________________ Date: ____________________________

          Property Owner if other than the Applicant

Title: _______________________________

NOTE: Town Clerk or Agent shall stamp the date received on this application, sign or initial adjacent to the date, and forward the material to the Secretary/Agent of the Planning Board.

Town Clerk ____________________________ Date ____________________________
SPECIAL NOTICE TO ALL APPLICANTS

Massachusetts General Laws, Chapter 40A, and the Norfolk Zoning Bylaws provide that the Planning Board shall have the power to hear and decide applications for Special Permits.

Before granting the above, the law requires that the Board determine, in its judgement, that all of the criteria listed in Appendix A, are met.

The Planning Board strongly recommends that applicants review each of these criteria in the appropriate in Appendix A before applying for the Special Permit. The applicant is encouraged to complete the enclosed Special Permit worksheet, bring it to the hearing, and be prepared to discuss how each of those conditions/criteria are met.
IMPORTANT INSTRUCTIONS AND INFORMATION FOR APPLICANTS

Please read carefully all the instructions below prior to completing the APPLICATION FOR HEARING.

All Applications to this Board will be acted upon, but because of several legal requirements, all information must be complete and correct to the best of the applicant's knowledge. Incomplete applications may cause delays and may be deemed invalid and rejected in accordance with the Rules and Regulations of the Board on file with the Town Clerk. No member of this Board may volunteer information, advise, or answer any questions about your application as this may be deemed prejudicial. It is suggested that any legal questions be answered by an attorney.

LINES 1-7 are basic information.

LINE 8a. - This application is for SPECIAL PERMITS which are allowed under the Norfolk Zoning Bylaws. See attached SPECIAL NOTICE TO ALL APPLICANTS.

LINE 8b. - This is an ADDENDUM request for modification or changes to conditions of approval and etc.

LINE 8c. - This represents EXTENSION requests for Special Permits. Application for EXTENSIONS must be filed PRIOR to the expiration date of the decision.

LINE 8d. - This represents a request for a RENEWAL of a Special Permit which was conditioned as such by decision of the Board.

LINE 8e. - This is a request for a hearing in accordance with Section 16 of Ch. 40A as amended.

LINE 9. is a statement of exactly what the applicant is requesting a hearing. The applicant must state intentions and reasons for application and also refer to the applicable paragraph (Section) of the Norfolk Zoning Bylaws. (Add an additional sheet, if there is sufficient space).

LINE 10a. - Please see SPECIAL NOTES before preparing the site plan.

The site plan must include the following:

1. Size to scale not less than 1 inch equals 40 feet
2. Property lines and dimensions
3. Names of streets
4. Zoning District
5. North point
6. Location of all buildings and their percentage of lot coverage
7. Present use of the property
8. Names of owners of all abutting property
9. The location of buildings on abutting property and their distance from buildings on the petitioner's property
10. Required parking (if any), entrance, exits, driveways, etc. pertinent to the granting of the Special Permit shall be shown
11. All proposed changes must be shown in RED
12. Plans must be certified by a Registered Land Surveyor or a Registered Professional Civil Engineer
13. Show two-foot contour intervals, starting at two hundred feet from proposed construction

SPECIAL NOTES:

1. If Site Plan Approval is required under Section F.11 of the Norfolk Zoning Bylaws, Site Plans submitted by the applicant must be the same as those filed with the Planning Board for Site Plan Approval and must be drawn in conformance with the most recent Planning Board Regulations for Site Plan Approval.

2. All site plan information shall be verified in the field by the applicant.
LINE 9h. - Three (3) copies of a certified list of abutters. The list shall contain the names and addresses of all abutters and owners of land directly opposite on any public or private way or street and abutters to abutters within 300 feet of the property line of the petitioner as they appear on the most recent tax list; notwithstanding that the land of any such owner is located in another city or town. This certified list or lists must be obtained from the Assessors' Office.

LINE 9c. - Three (3) copies of the Articles of Incorporation if the applicant is incorporated.

LINE 9d. - Filing fee and/or review fee as per most recently amended fee schedule.

A copy of the Norfolk Zoning Bylaws may be purchased from the Town Clerk.

One non-circulating copy of Mass. General Laws, Chapter 40A, as amended, and one non-circulating copy of the Rules and Regulations of the Planning Board as a Special Permit Granting Authority are on file with the Town Clerk.
APPENDIX A

Special Permit Conditions and Worksheet

(Per NORFOLK ZONING BYLAWS, Section G.6.c.)

1. That the use is in harmony with the general purpose and intent of the bylaw:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

2. That the use is in an appropriate location and is not detrimental to the neighborhood and does not significantly alter the character of the zoning district:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

3. Adequate and appropriate facilities will be provided for the proper operation of the proposed use:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

4. That the proposed use would not be detrimental or offensive to the adjoining zoning districts and neighboring properties due to the effects of lighting, odors, smoke, noise, sewage, refuse materials, visual or other nuisances:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

5. That the proposed use would not cause undue traffic congestion in the immediate area:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________
6. That a proper site plan has been filed for approval with the Planning Board and the proper number of copies have been submitted with the application for a Special Permit to the Board of Appeals.

Site plan filed with the Planning Board for approval on: ________________________________

7. That the use and/or purpose is consistent with the 1992 Master Plan, and as most recently updated. State how the use and/or purpose is consistent, as follows:

______________________________________________________________________________

______________________________________________________________________________

______________________________________________________________________________