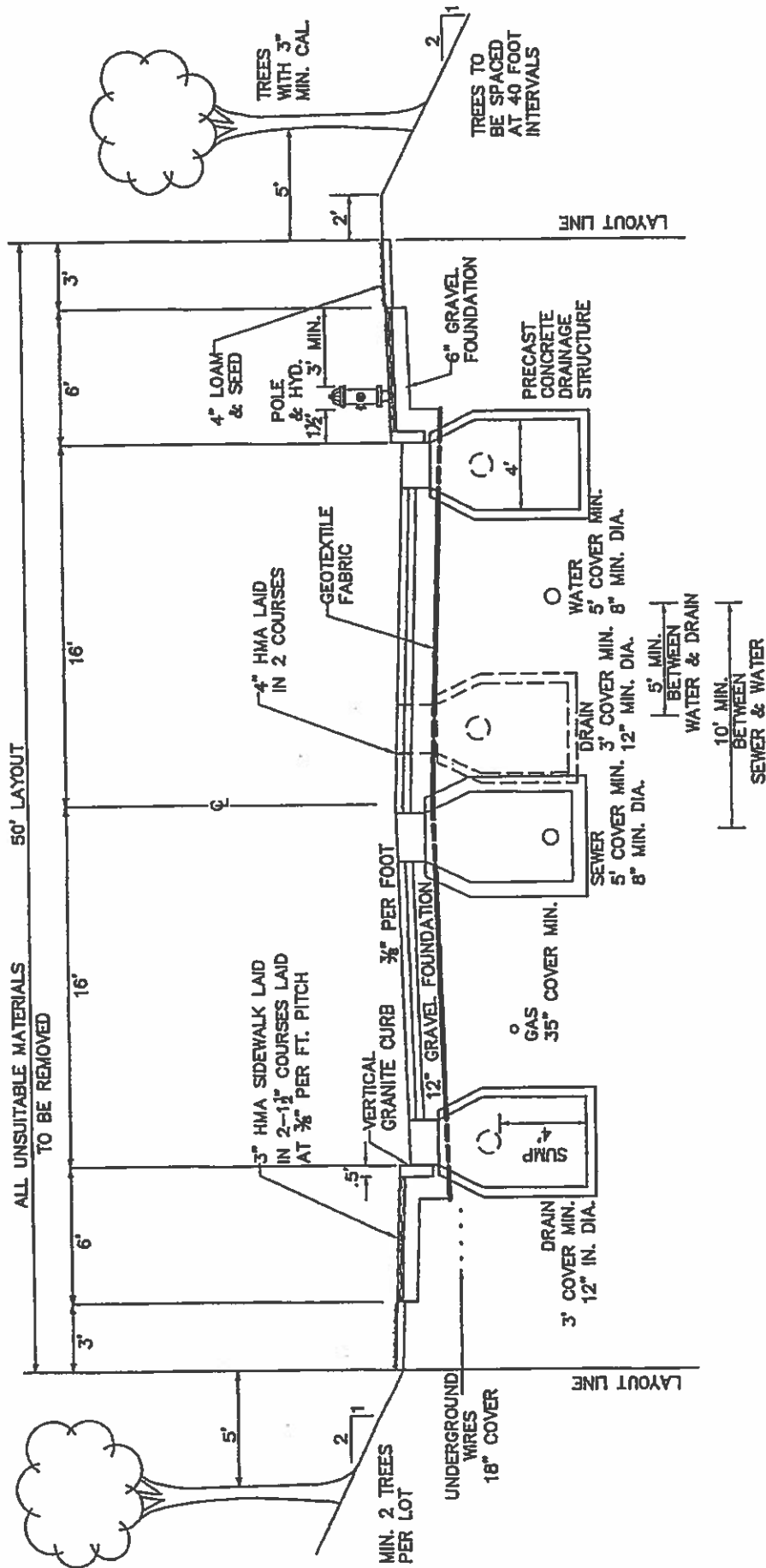
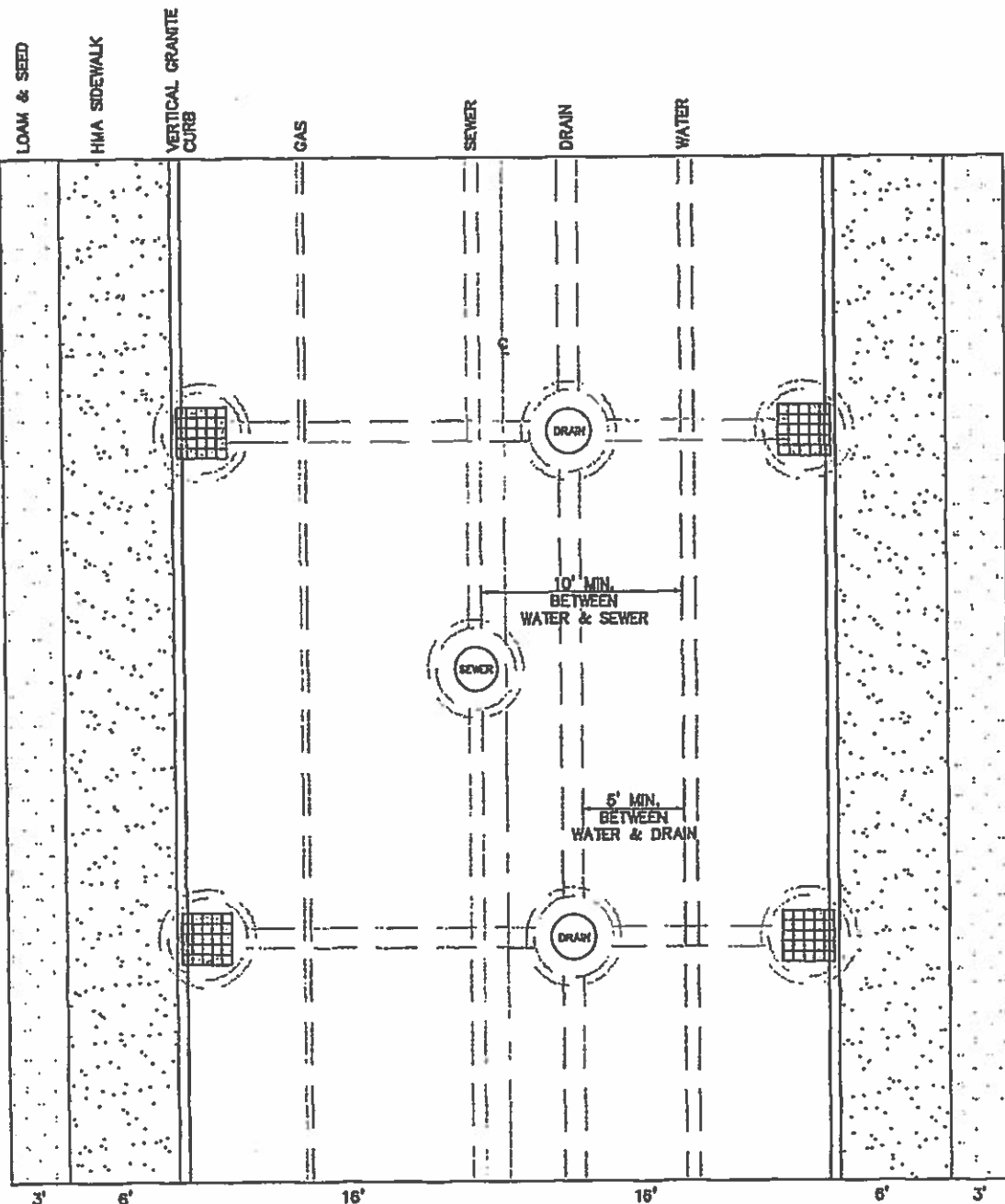


--TYPICAL CROSS SECTION--



#1

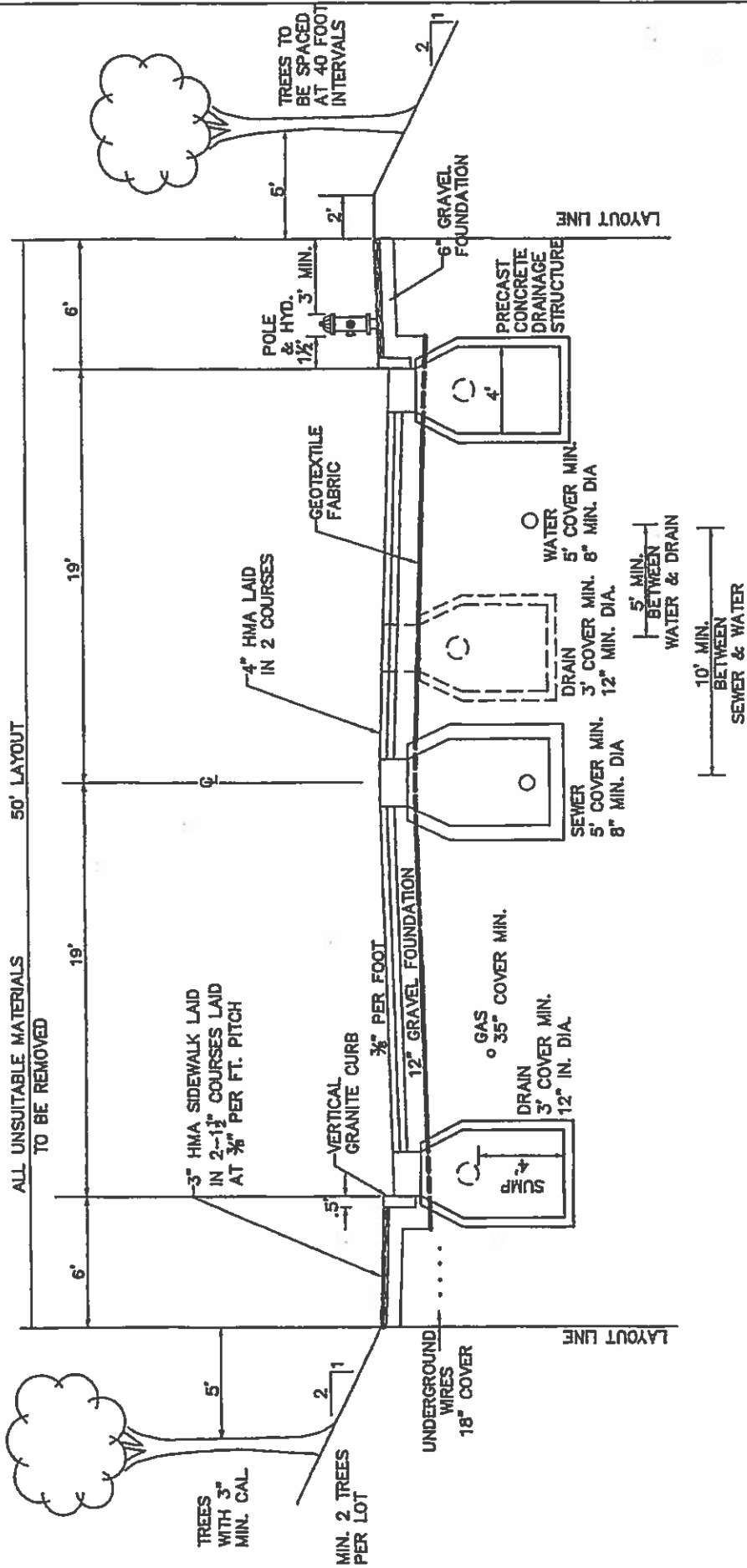
SECONDARY RESIDENTIAL STREET
N.T.S



#1

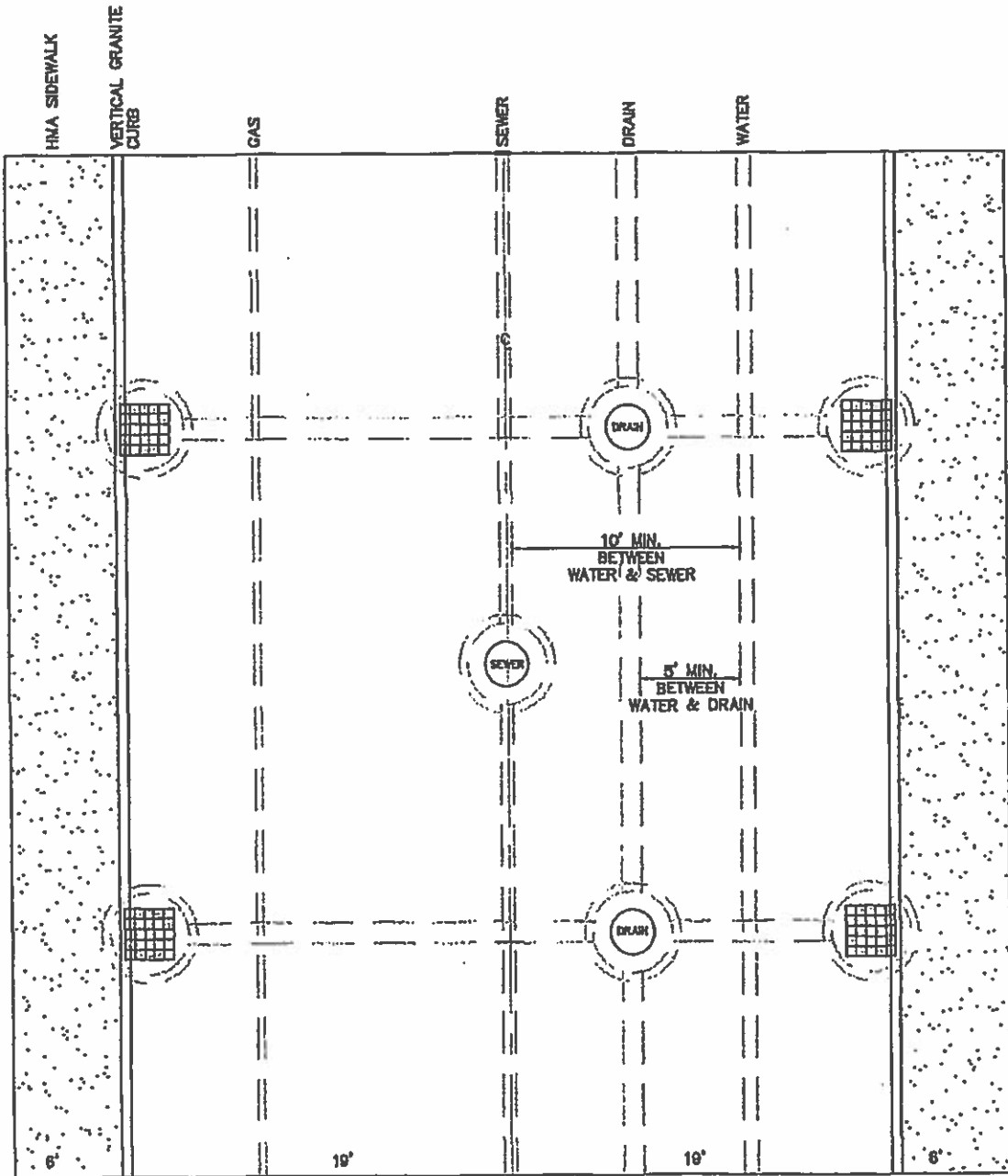
SECONDARY RESIDENTIAL STREET
 PLAN VIEW
 N.T.S

-TYPICAL CROSS SECTION-



#2

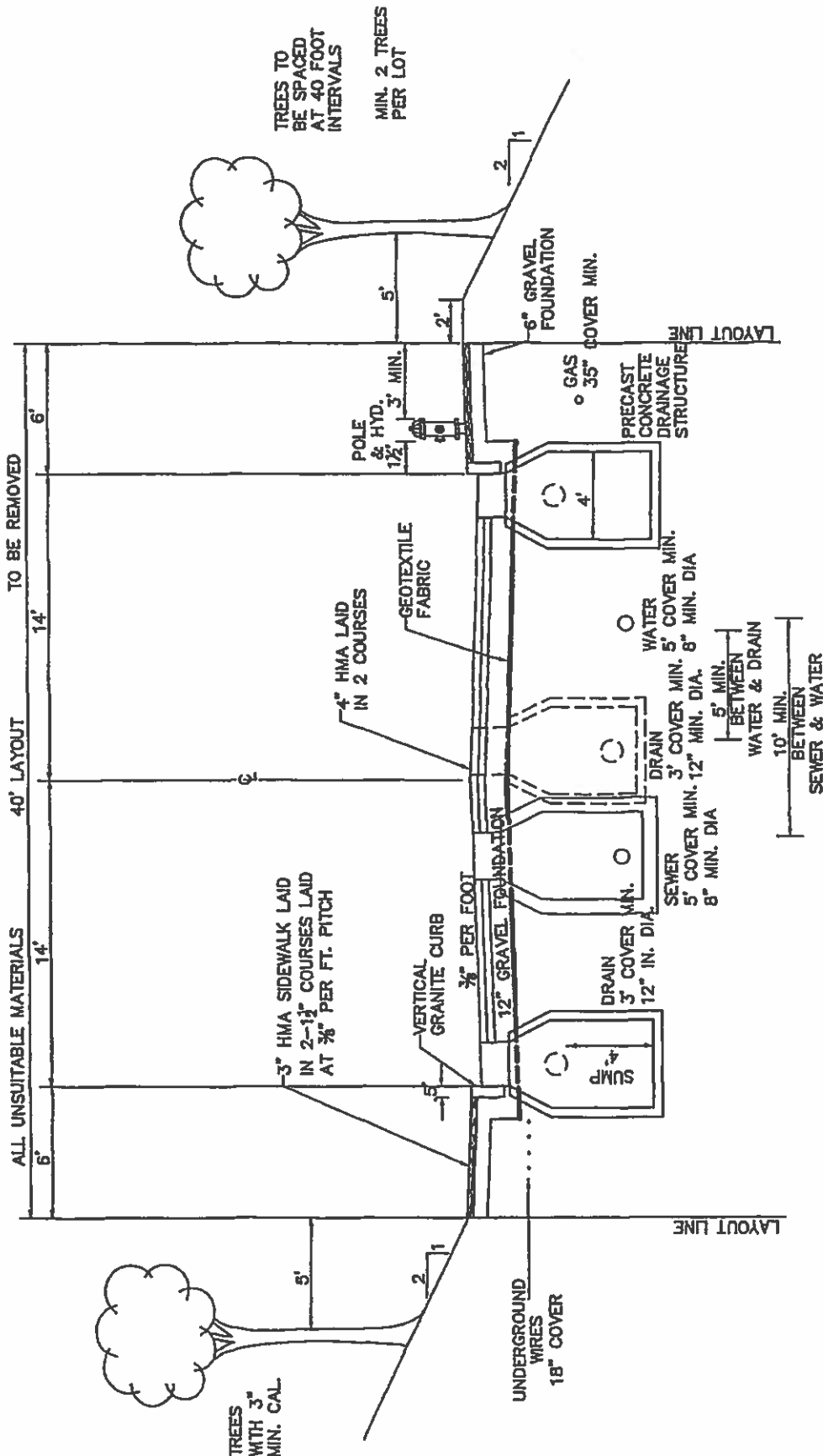
MAJOR RESIDENTIAL STREET
 AS DETERMINED BY THE PLANNING BOARD
 N.T.S.



#2

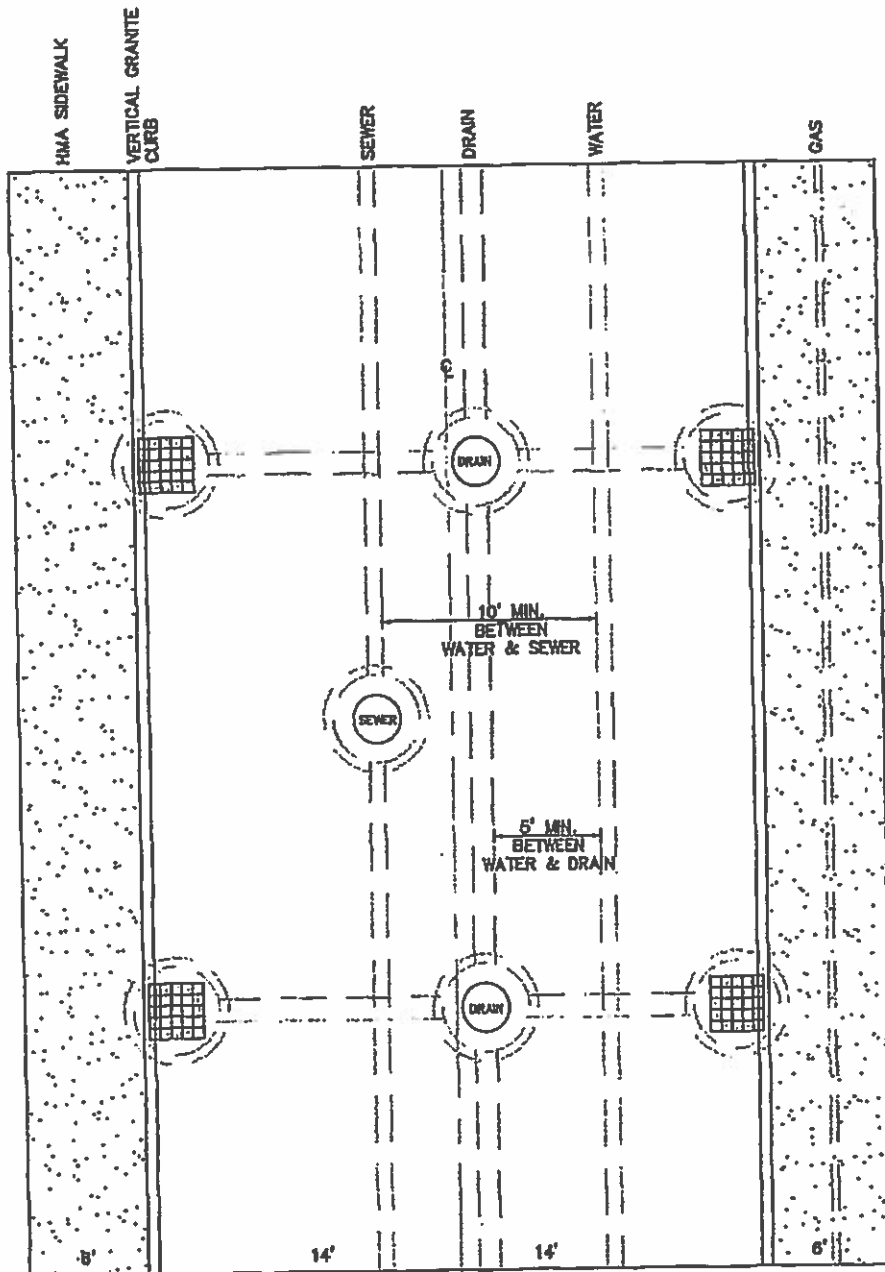
MAJOR RESIDENTIAL STREET
 AS
 DETERMINED BY THE PLANNING BOARD
 PLAN VIEW
 N.T.S

-TYPICAL CROSS SECTION-



#3

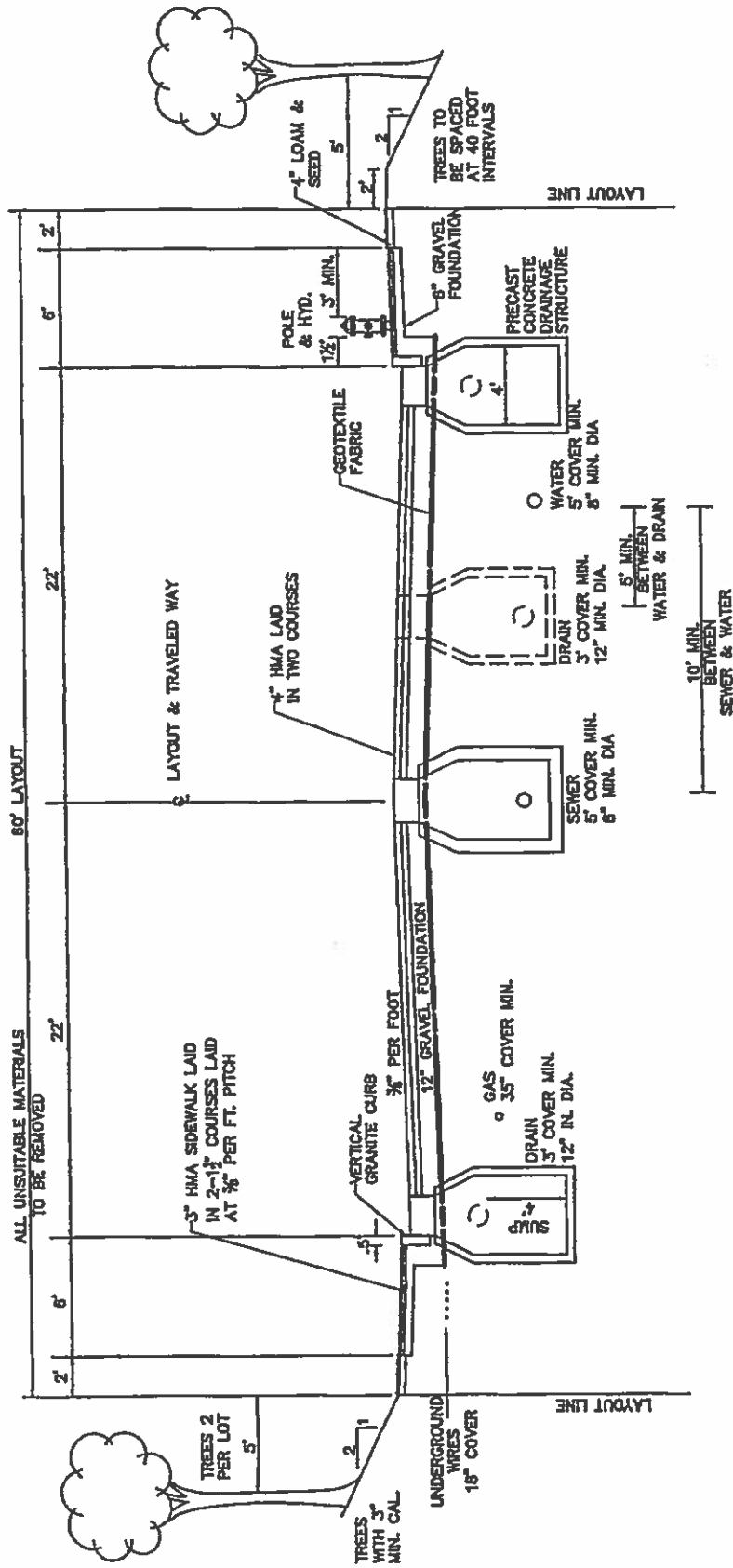
SECONDARY RESIDENTIAL STREET
REQUIRES PLANNING BOARD WAIVER
N.T.S



#3

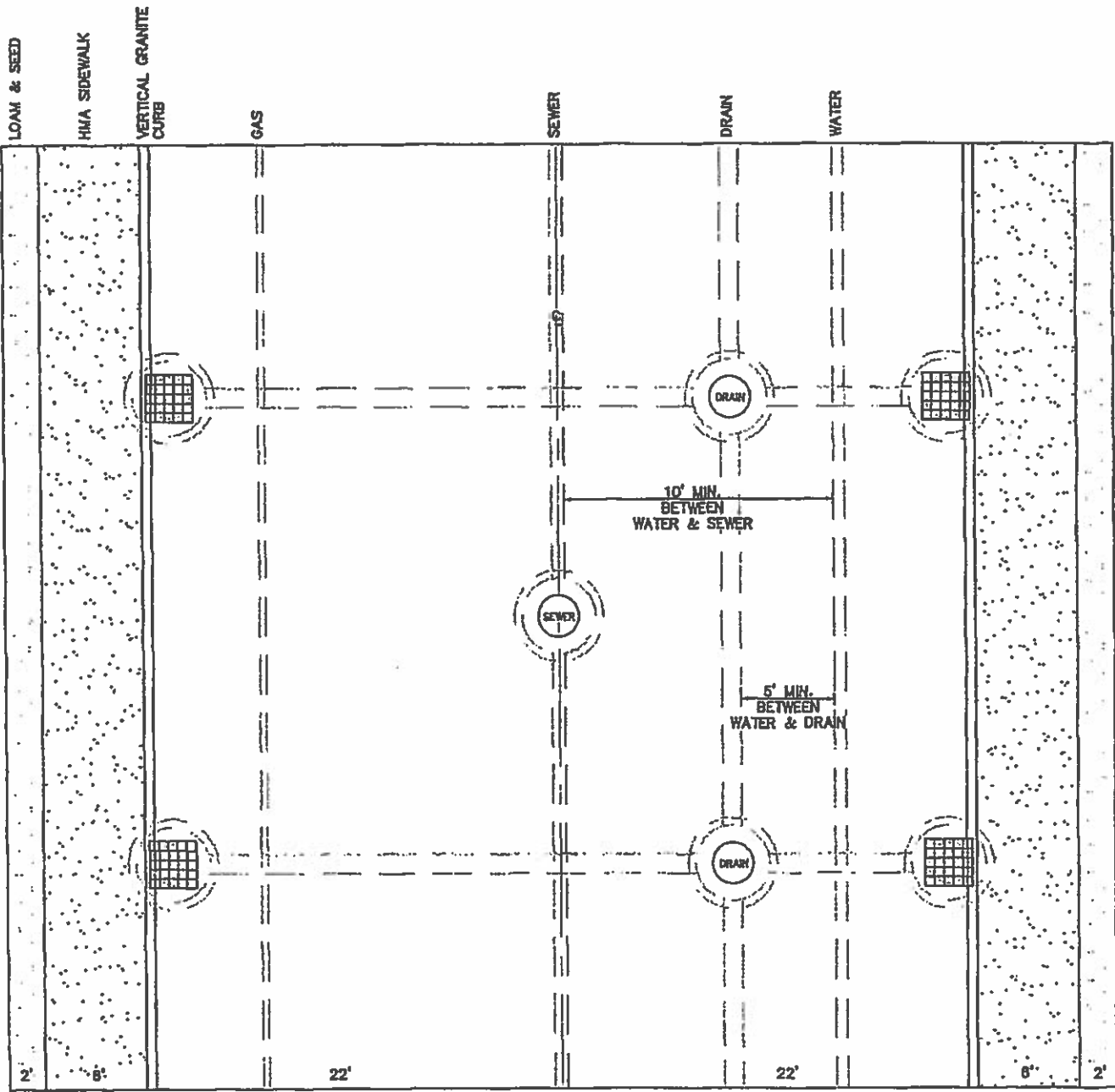
SECONDARY RESIDENTIAL STREET
 REQUIRES PLANNING BOARD WAIVER
 PLAN VIEW
 N.T.S

-TYPICAL CROSS SECTION-



#4

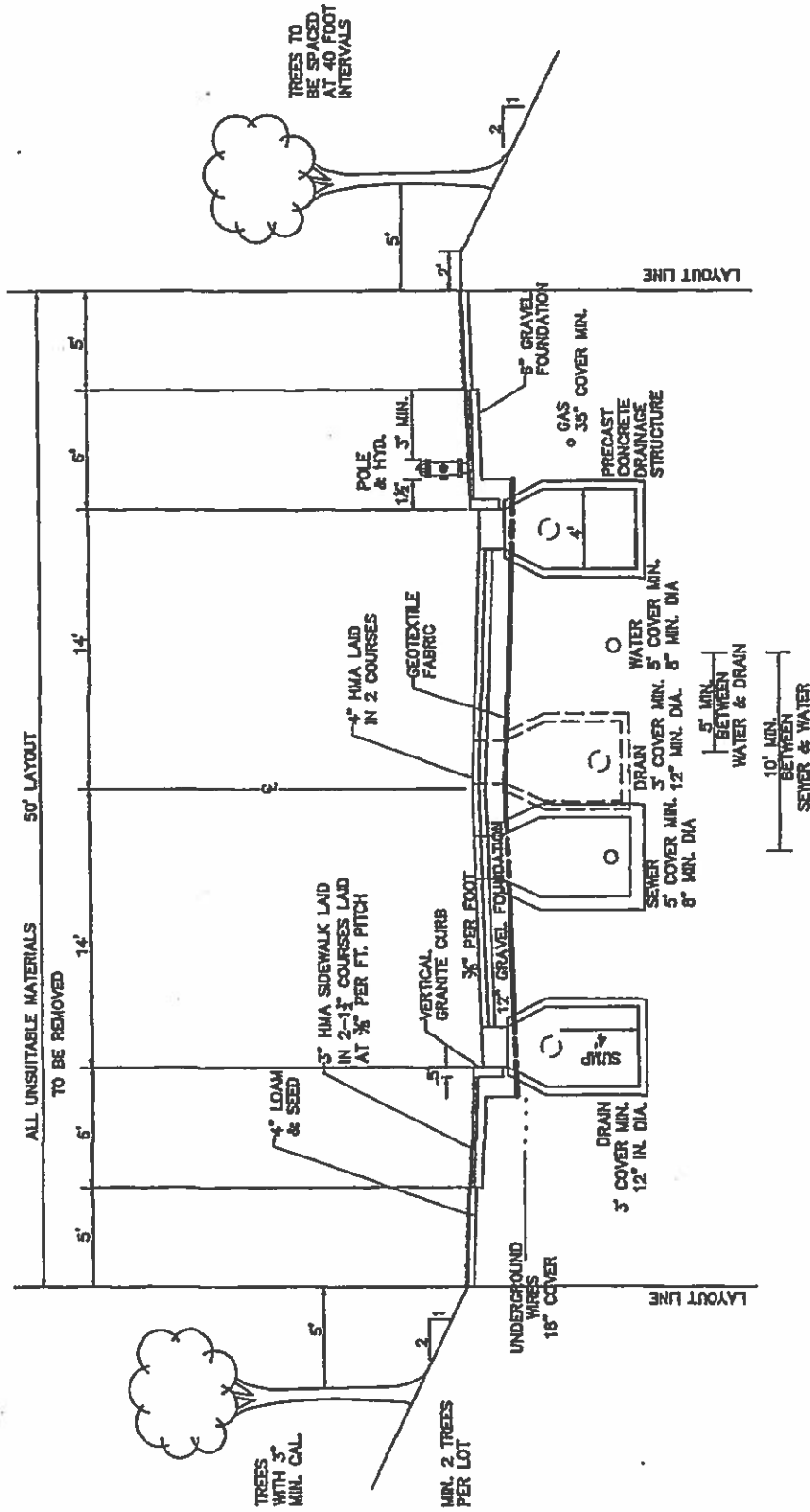
MAJOR RESIDENTIAL STREET
AS
DETERMINED BY THE PLANNING BOARD
N.T.S



#4

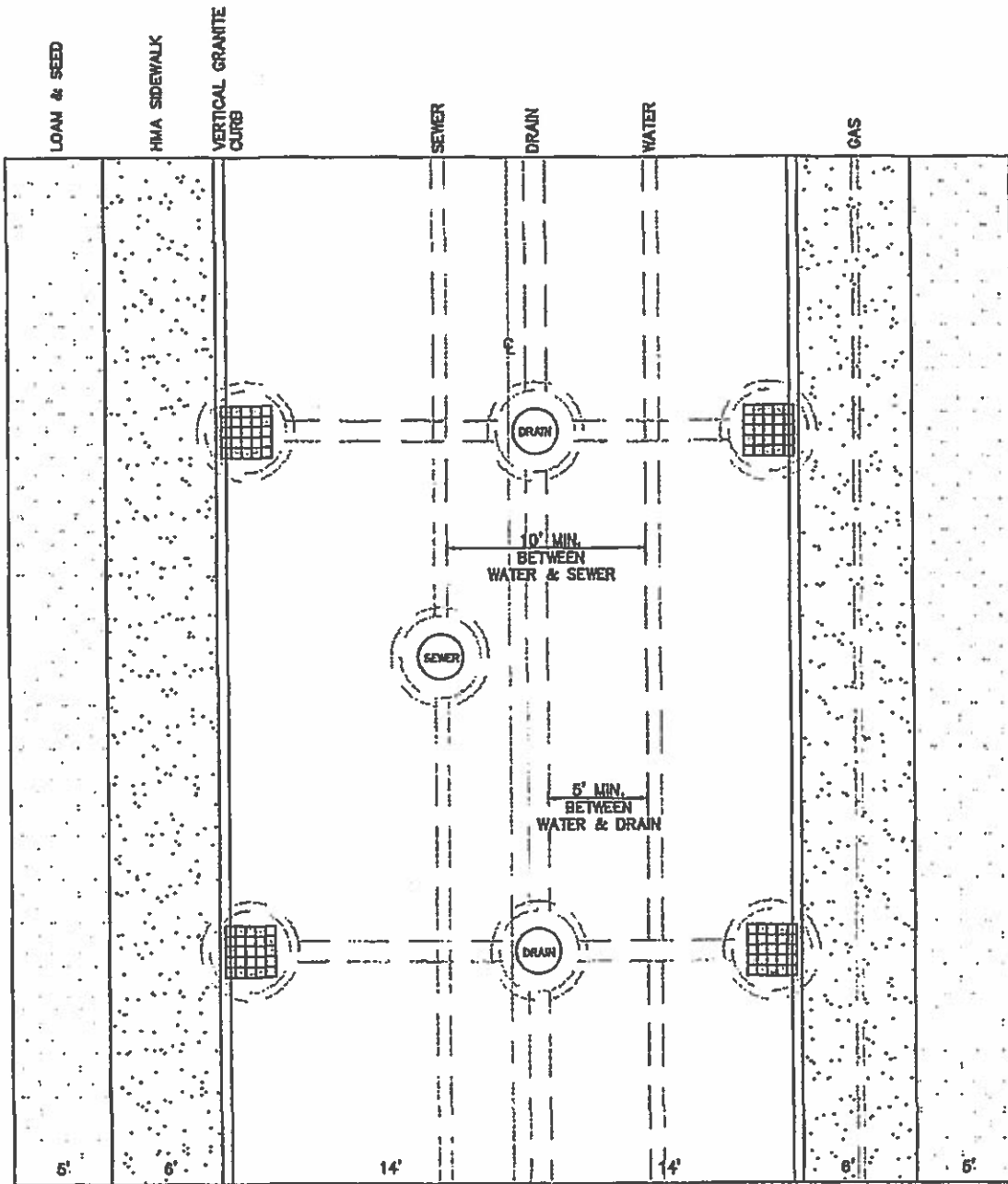
MAJOR RESIDENTIAL STREET
 AS
 DETERMINED BY THE PLANNING BOARD
 PLAN VIEW
 N.T.S

-TYPICAL CROSS SECTION-



#5

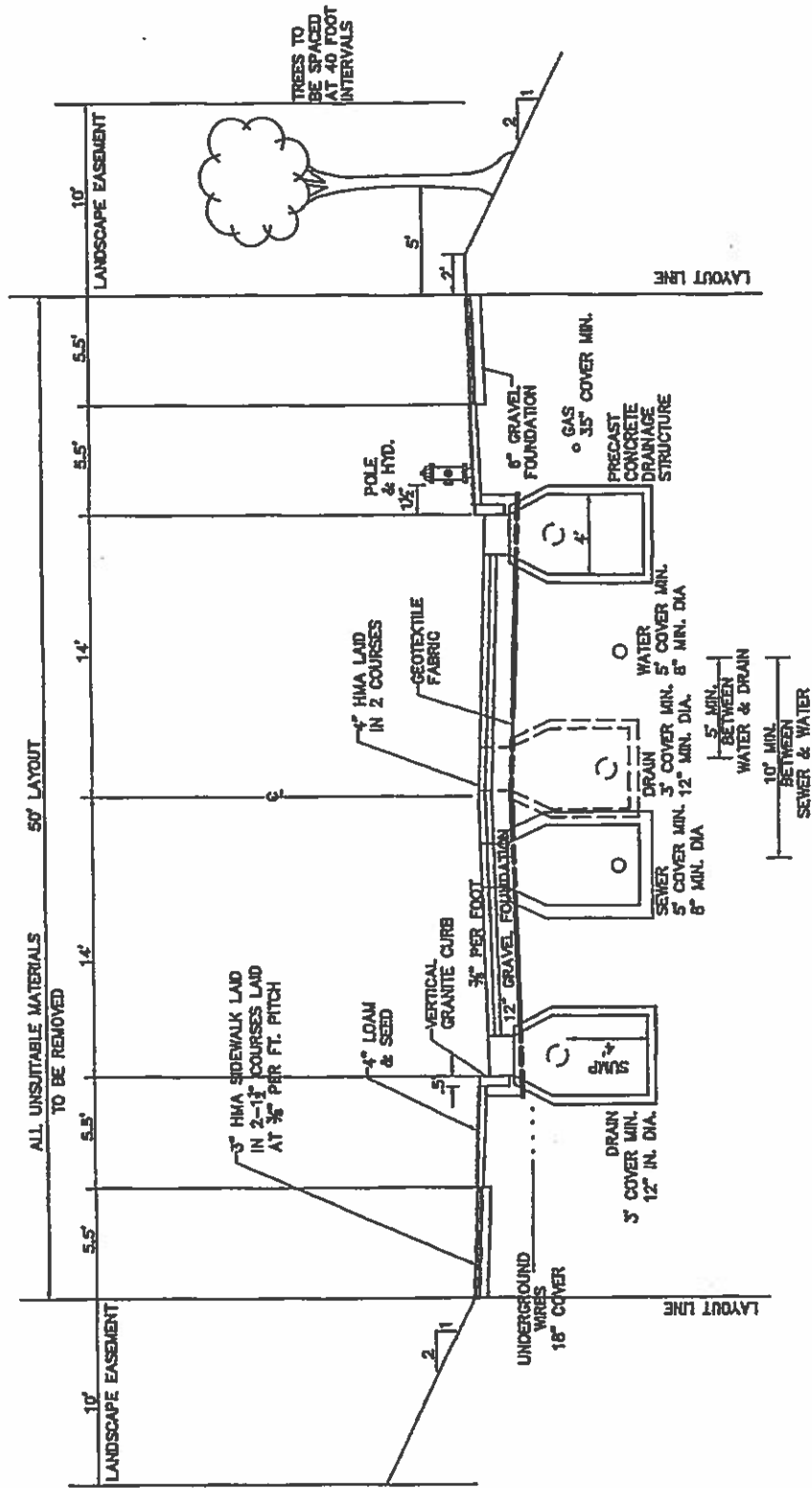
ALTERNATIVE STANDARDS
N.T.S



#5

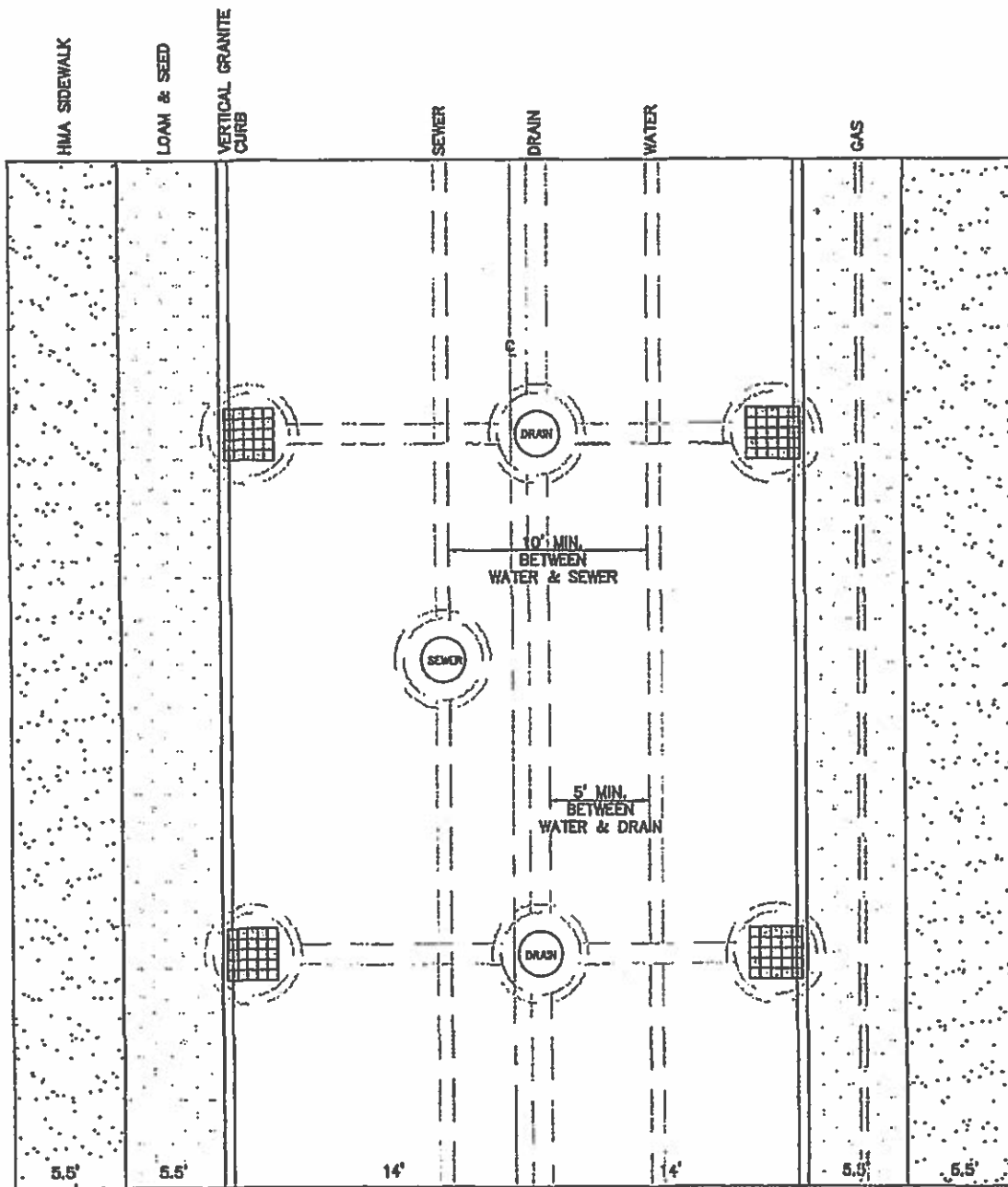
ALTERNATIVE STANDARDS
 PLAN VIEW
 N.T.S

-TYPICAL CROSS SECTION-



#6

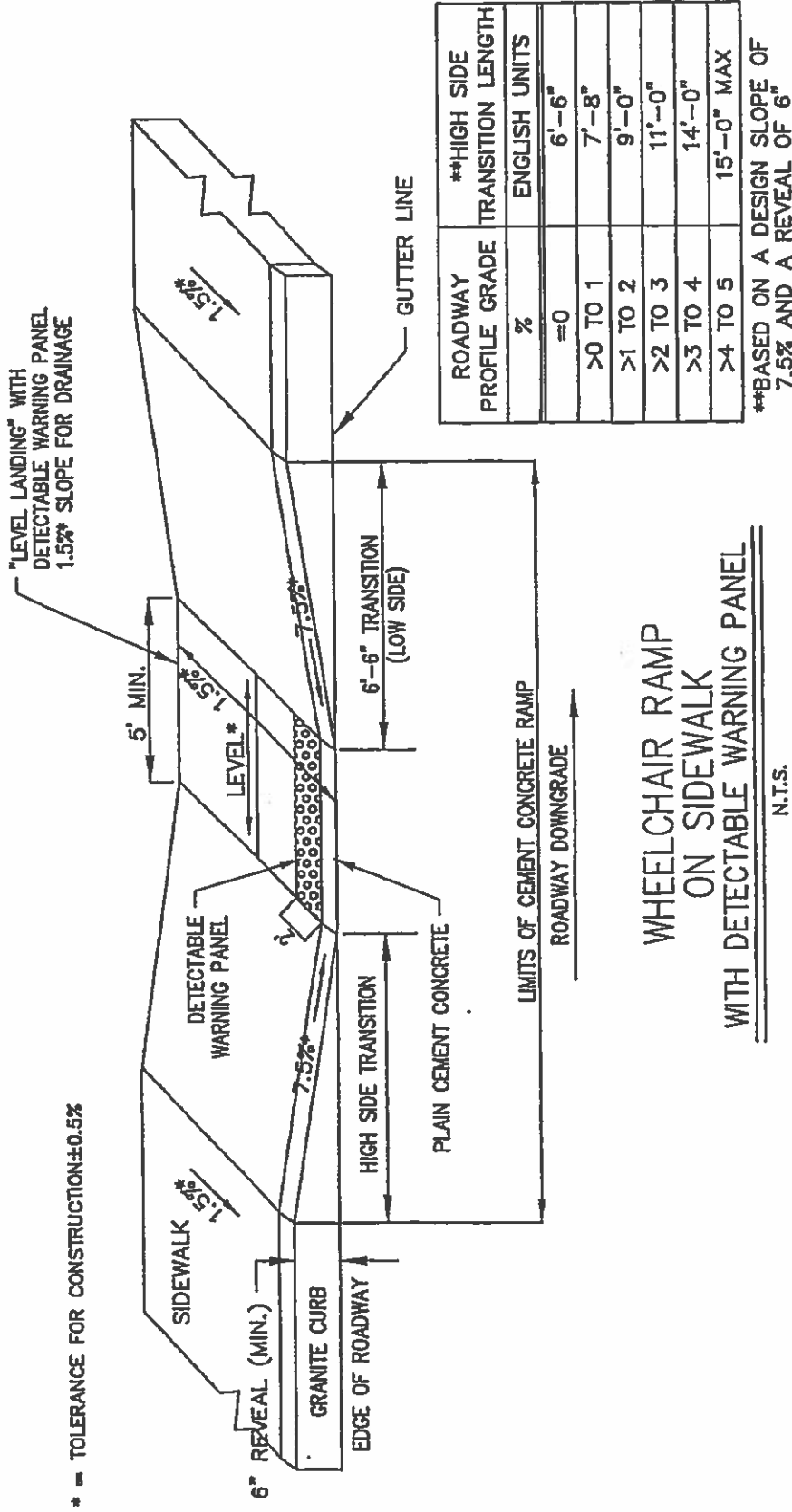
ALTERNATIVE STANDARDS
N.T.S.



#6

ALTERNATIVE STANDARDS
 PLAN VIEW
 N.T.S

APPENDIX I
(PAGE 1 OF 3)



* - TOLERANCE FOR CONSTRUCTION ±0.5%

ROADWAY PROFILE GRADE %	**HIGH SIDE TRANSITION LENGTH ENGLISH UNITS
=0	6'-6"
>0 TO 1	7'-8"
>1 TO 2	9'-0"
>2 TO 3	11'-0"
>3 TO 4	14'-0"
>4 TO 5	15'-0" MAX

**BASED ON A DESIGN SLOPE OF 7.5% AND A REVEAL OF 6"

WHEELCHAIR RAMP
ON SIDEWALK
WITH DETECTABLE WARNING PANEL

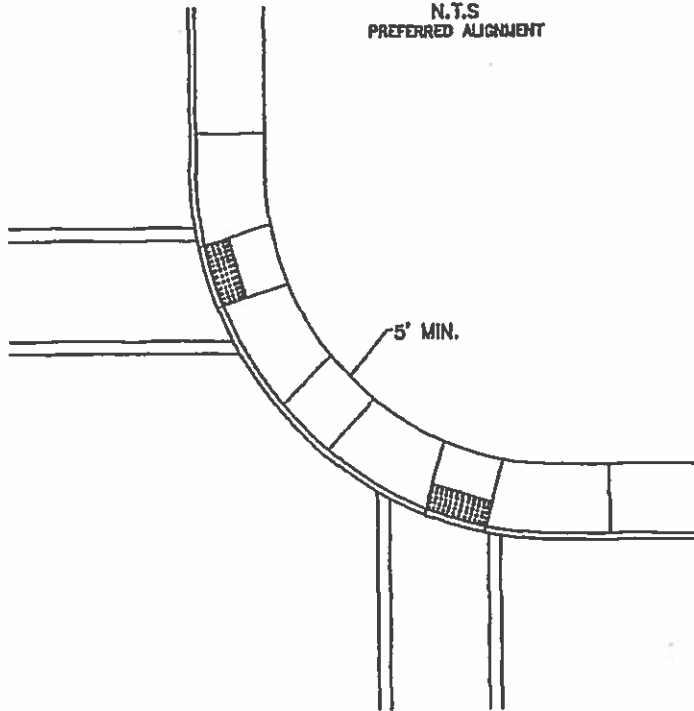
N.T.S.

TYPICAL SECTION FOR WHEELCHAIR
RAMPS AT SIDEWALKS

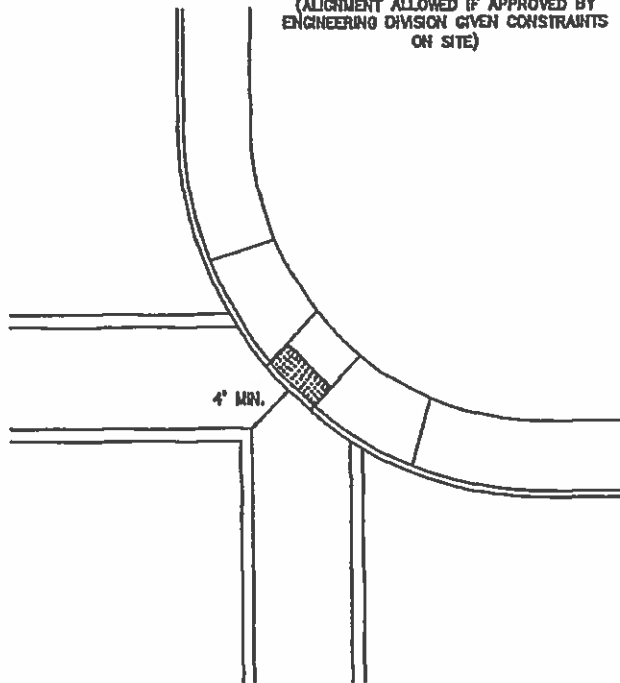
APPENDIX I

(PAGE 2 OF 3)

25 OR 30-FOOT RADIUS
PARALLEL CURB RAMPS
N.T.S
PREFERRED ALIGNMENT

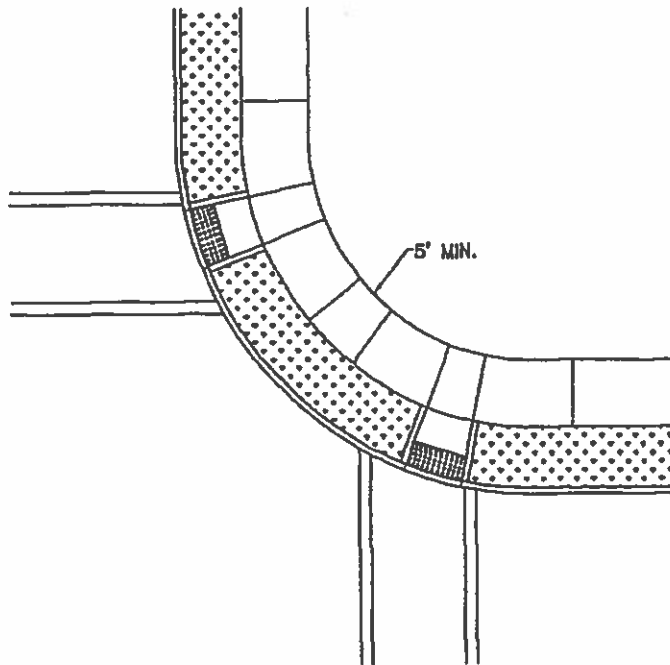


25 OR 30-FOOT RADIUS
PARALLEL RAMPS, ONE SHARED LANDING
N.T.S
(ALIGNMENT ALLOWED IF APPROVED BY
ENGINEERING DIVISION GIVEN CONSTRAINTS
ON SITE)

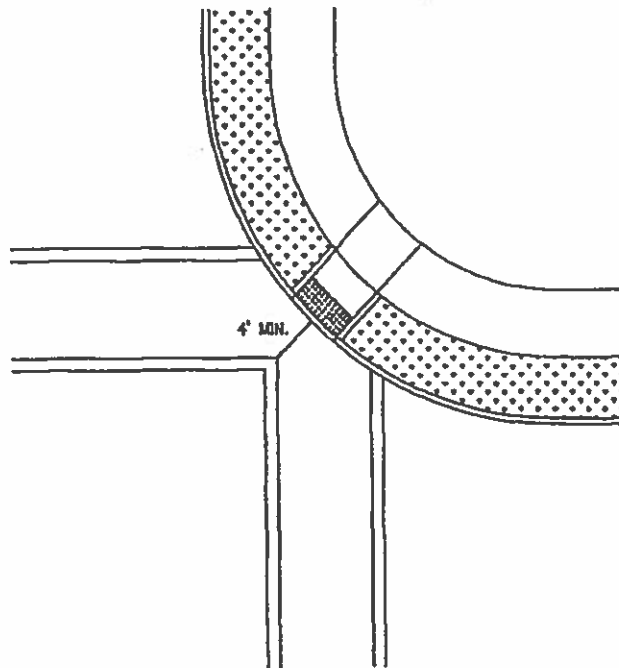


APPENDIX I
(PAGE 3 OF 3)

25 OR 30-FOOT RADIUS
COMBINATION PARALLEL & PERPENDICULAR CURB RAMP
N.T.S
PREFERRED ALIGNMENT

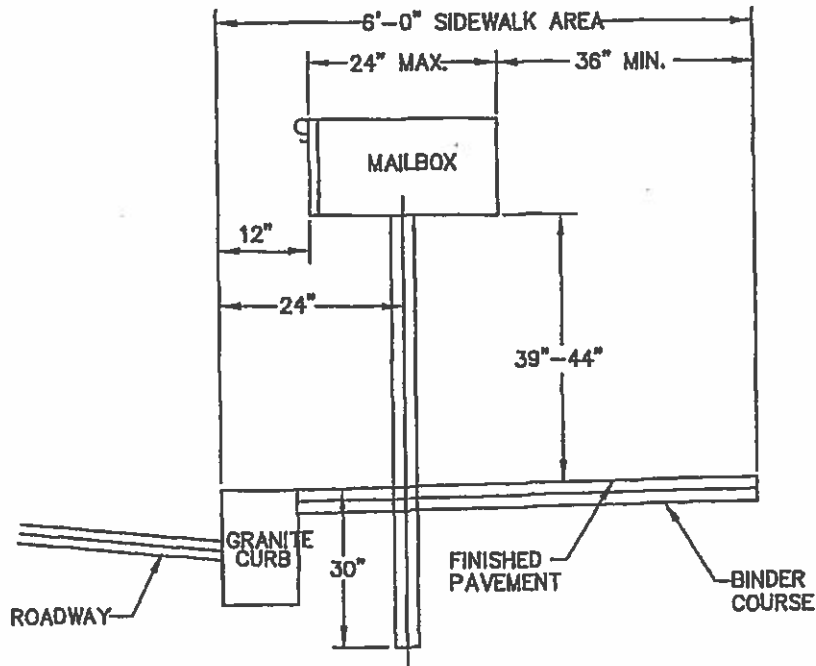


25 OR 30-FOOT RADIUS
ONE PERPENDICULAR CURB RAMP
N.T.S
(ALIGNMENT ALLOWED IF APPROVED
BY ENGINEERING DIVISION GIVEN
CONSTRAINTS ON SITE)



APPENDIX J

NOTE: MAILBOX POST TO BE SET PRIOR TO
PLACEMENT OF HMA



Note:

- 1) All details are subject to change without notice. Check with the City of Marlborough's Department of Public Works prior to using these details for the most up to date revisions.

PROPOSED MAILBOX

N.T.S.

MAILBOX INSTALLATION
TYPICAL SECTION

APPENDIX A

APPLICATION FOR ENDORSEMENT OF
PLAN BELIEVED NOT TO REQUIRE APPROVAL

File one completed form with the Planning Board and one
copy with the City Clerk in accordance with the
requirements of Section II-B.

Marlborough, Massachusetts

(Date)

To the Planning Board:

The undersigned, believing that the accompanying plan of his property in the
City of Marlborough does not constitute a subdivision within the meaning of the
Subdivision Control Law, herewith submit said plan for a determination and
endorsement that Planning Board approval under the Subdivision Control Law is
not required.

1. Name of Applicant _____

Address _____

2. Name of Engineer _____

Address _____

3. Deed of Property recorded in _____ Registry of

Deeds Book _____ Page(s) _____.

4. Location and description of property:

Signature of Owner

Address: _____

APPENDIX B

APPLICATION FOR APPROVAL OF PRELIMINARY PLAN

File one completed form with the Planning Board and one copy with the City Clerk in accordance with the requirements of Section III-A.

Marlborough, Massachusetts

(Date)

To the Planning Board:

The undersigned herewith submits the accompanying Preliminary Plan of Property located in the City of Marlborough for approval as a subdivision as allowed under the Subdivision Control Law and the Rules and Regulations governing the Subdivision of Land of the Planning Board in the City of Marlborough.

1. Name of Subdivider: _____

Address: _____

2. Name of Engineer: _____

Address: _____

3. Deed of property recorded in _____ Registry
of Deeds, Book _____ Page _____

4. Location and description of property:

Signature of Owner

Address: _____

APPENDIX C
(Amended 11/19/74)

APPLICATION FOR APPROVAL OF DEFINITIVE PLAN

File one completed form with the Planning Board and one copy with the City Clerk in accordance with the requirements of Section III-B.

Marlborough, Massachusetts

(Date)

To the Planning Board:

The undersigned herewith submits the accompanying Definitive Plan of property located in the City of Marlborough for approval as a subdivision under the requirements of the Subdivision Control Law and the Rules and Regulations governing the Subdivision of Land of the Planning Board of the City of Marlborough.

1. Name and Record Owner of Land: _____

Address: _____ (Amended 11/19/74)

2. Name of Subdivider: _____

Address: _____

3. Name of Engineer: _____

Address: _____

4. Deed of property recorded in _____ Registry of

Deeds Book _____ Page(s) _____

5. Location and description of property: _____

6. Date of completion of ways, public utilities, and other

facilities: _____

Signature of Owner

Address of Owner

APPENDIX D
(Amended 7/18/88)

PETITION FOR APPROVAL OF FINAL PLAN

City Clerk
City Hall
Marlborough, MA 01752

Date: _____

The undersigned petitioner desires to subdivide a parcel of land and to open in the City of Marlborough, as described on plot, ways or street for access to all lots of land within the parcel. Said parcel of land is described as follows:

All as more particularly described and bounded on a plot or plan filed herewith and made a part of this petition. The following are all of the mortgages and other liens or encumbrances on the whole or any part of the described property:

The undersigned hereby applies for the approval of said plan by the Planning Board. The undersigned hereby covenants and agrees with the City of Marlborough upon the approval of said plan:

- a. to complete the ways as finally approved by the Board within _____ (months or years) from the date hereof;
- b. to install utilities in accordance with the Rules and Regulations of the Planning Board, the Commissioner of Public Works, Board of Health, and all general as well as Zoning Ordinances of said City, as are applicable to the installation of utilities within the limits of ways or streets;
- c. to complete and construct the said streets or ways in accordance with Section II (General Requirements) and the approved plan, profile, and cross-sections of same. All to be in accordance with the specifications provided for in said Rules and Regulations of the Board. Said plans, profiles, cross-sections, and construction specifications are specifically, by reference, incorporated herein and made a part of this petition. This petition shall be binding upon all heirs, executors, administrators, successor, grantees of the whole or part, and assigns of the undersigned.

Authorized Signature of Applicant

APPENDIX E

Date: _____

To the Marlborough Planning Board:

In preparing the plan entitled _____

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 Middlesex South District Registry of Deeds Book _____ Page _____.

2. Other plans as follows: _____

3. Oral information furnished by: _____

4. Actual measurement on the ground from a starting point established by: _____

5. Other sources: _____

Signed _____

APPENDIX F
(Amended 7/18/88)

TYPICAL CROSS SECTIONS

All plan submittals shall use "Typical Section 1" included in "Appendix F" of these regulation, as a basis of design unless another typical section is approved in writing by the Marlborough Planning Board.

1. Granite curb inlets (6'x6"x18") shall be utilized at all catchbasins.
2. Generally, main surface water drain lines shall be placed on the high side of the road and all other utility lines located respectively in accordance with the typical section.
3. Water and sewer utilities shall be installed in accordance with the most recent provisions of the City of Marlborough Water & Sewer Ordinance.
4. Excavations and backfilling of all utilities shall be in accordance with the requirements of the Marlborough Department of Public Works.
5. Design of utilities and structures shall meet the latest State standards and local D.P.W. regulations as applicable.
6. Wheelchair ramps will be provided as depicted in "Appendix I".
7. Vertical granite curbing may be required along all streets where maximum slope regulations have been waived. Limits shall be determined by the City Engineer.
8. Grade and alignment stakes shall be set for each utility and for the road construction.

APPENDIX G

INSPECTION FORM
(Amended 12/2/91)

Marlborough, Massachusetts

Name of Subdivision: _____

Street _____

Date

Inspector's

Item Inspected Inspected Remarks Approval Signature

Excavation _____

Filling _____

Compacting _____

Laying Water Mains _____

Completion of Pavement _____

Grading of Curbs
and Gutters _____

Construction of
Sidewalks _____

Installation of
Sanitary Sewers and
Related Equipment _____

Installation of
Monuments _____

Installation of
Hydrants _____

APPENDIX H
(Amended 7/18/88)

DRAINAGE DESIGN

Drainage Design:

The following general criteria shall be employed in the design of surface water drainage systems for subdivisions:

Minimum inside pipe diameter - 12".

Type of pipe - Class IV, reinforced concrete.

Maximum distance between catch basins - 300 feet.

Minimum ground cover over pipe - 2.5'.

Minimum size on catchbasin sumps - 2.5'.

Maximum change in the direction of flow - 90 degrees.

Pipe ends - headwall or flared end.

Generally, catchbasins should be placed three feet (3') before the P.C. of curb returns at intersections. Where roadway grades exceed seven percent (7%), basins should be spaced closer than the above noted 300 feet as determined by the City Engineer. Manholes shall be provided at all points along the main line where changes in horizontal and vertical alignment are proposed. At structures where pipe sizes increase along the main line the crown of the pipes shall match in elevation. Cross-drain inverts should, where possible, enter the structure a minimum of one foot (1') above the outgoing invert.

Computations:

The following methods shall be used to perform the hydraulic and hydrologic calculations for the subdivision:

Watershed parameters - "TR55, Urban Hydrology for Small Watersheds", U.S. Soil Conservation Service, USDA.

Existing and proposed runoff hydrographs - "TR20 - Computer Program for Project Formulation Hydrology", U.S. Soil Conservation Service, USDA.

Design Storm Criteria

Generally post development flows must be equal to or less than pre-development flows measured at each analysis point.

Hydrologic analyses: 10 year and 100 year recurrence intervals, Type II, 24 hour, rainfall distribution.

Hydraulic analyses: 25 year storm recurrence interval, rational formula.

Alternative methodologies and design criteria shall only be allowed upon written approval by the City Engineer.

APPENDIX K
(Added 7/18/89, Amended 1/7/91)

SUBDIVISION REGULATIONS FEE SCHEDULE

The Planning Board shall require fees for submission, review and approval of Approval Not Required Plans, Preliminary Subdivision Plans, Definitive Subdivision Plans, and Inspections. Said fees shall be as adopted by the Board and according to the Schedule of Fees posted in City Hall and available from the City Clerk's Office. Said fees shall be tendered at the times specified in the Schedule of Fees.

The Planning Board fees are established to cover all administrative costs borne by the City, whether by City employees or by consultants.

The fees cover application filing, public notice, and advertising for hearings, data collection, analysis, Department of Public Works review, Planning Department review, zoning and subdivision regulation compliance, legal review of covenants, establishing bonding amounts, review and filing of bonding instruments, issuing lot releases, field testing, and inspections of roadways and utilities under construction, administration of acceptance of streets, issuance of street names and numbers.

APPROVAL NOT REQUIRED PLAN

\$50.00 filing fee, plus \$50.00 for each lot described on the plan. (Amended 1/7/91)

To be paid at the time of plan submission.

PRELIMINARY SUBDIVISION PLAN

\$200.00 filing fee plus \$1.00 per linear foot of proposed roadway.

Plus \$100.00 for advertising for public hearing, if held.

Plus mailing costs. (Added 1/7/91)

To be paid at the time of plan submission.

DEFINITIVE SUBDIVISION PLAN

\$500.00 filing fee plus \$2.00 per linear foot of proposed roadway less 80 percent (80%) of all fees paid for preliminary subdivision plan if filed within seven (7) months (Amended 1/7/91) of filing of preliminary plan.

Plus \$100.00 for advertising for required public hearing.

Plus mailing costs. (Added 1/7/91)

To be paid at the time of plan submission.

CHANGES TO SUBDIVISION PLAN SUBSEQUENT TO APPROVAL (Added 1/7/91)

\$200.00 filing fee.

\$100.00 advertising for public hearing, if any.

Plus mailing costs.

To be paid at the time of plan submission.

INSPECTION OF SUBDIVISION CONSTRUCTION

\$50.00 plus \$1.00 per linear foot of proposed roadway.

To be paid after approval of subdivision plan and expiration of appeal period, but prior to signing of Definitive Plans by Planning Board.

SPECIAL STUDIES BY CONSULTANTS

All expenses in connection with any special consultant's study, (such as a traffic, impact, ground water, or sub-surface study) considered necessary by the Planning Board shall be borne by the applicant in full and shall be in addition to the filing fee or paid directly to the consultant.

All fees to be in the form of a check made payable to the City of Marlborough.

Signed _____
Barbara L. Fenby, Chairperson
MARLBOROUGH PLANNING BOARD