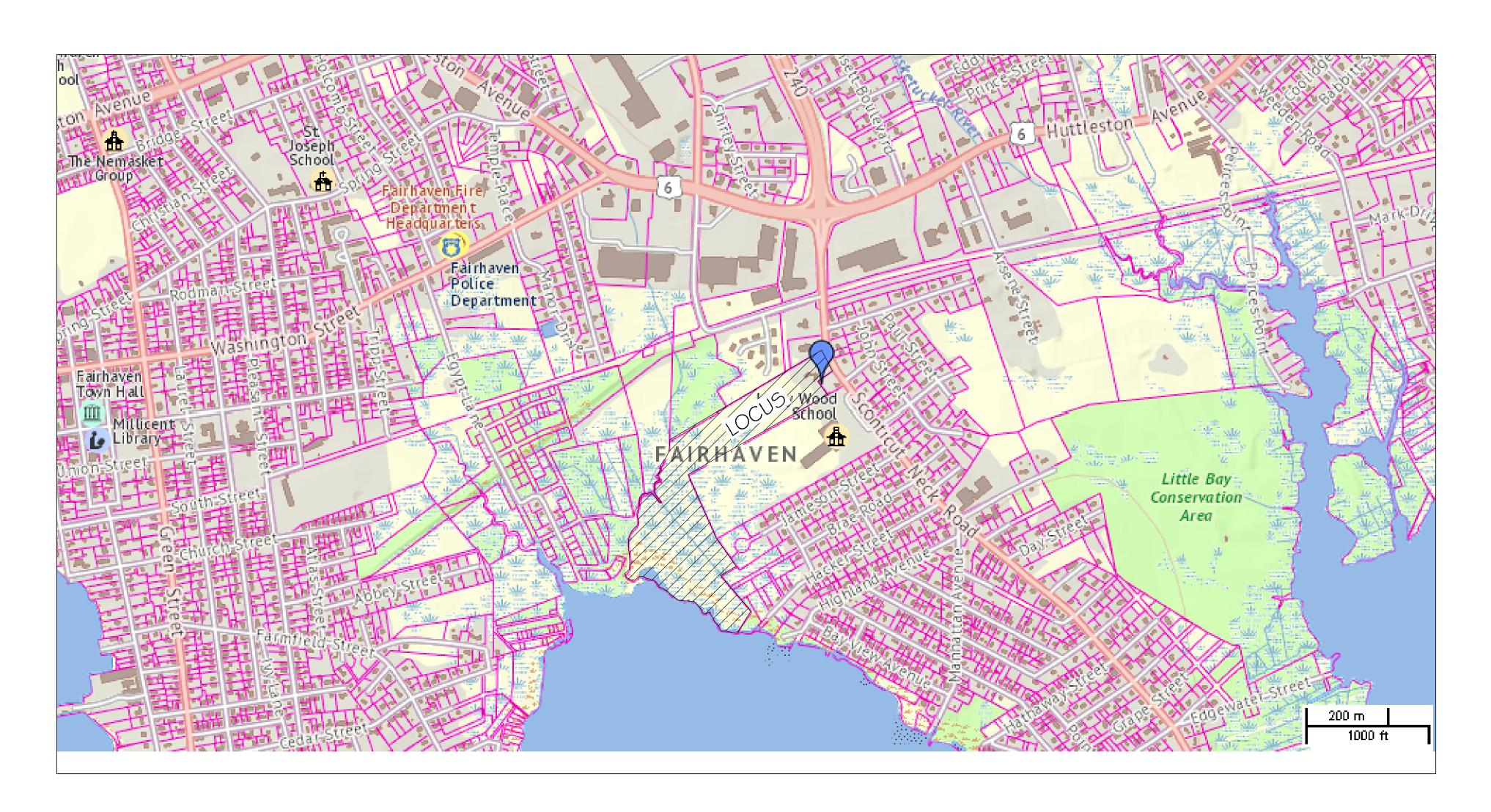
PRELIMINARY LAND DEVELOPMENT PLANS 46 SCONTICUT NECK ROAD

FAIRHAVEN, MASSACHUSETTS



DRAWING INDEX:

SHEET	DESCRIPTION
CIVIL PLANS	
C-1	COVER SHEET
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C-4	LAYOUT AND MATERIALS PLAN
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C-6	DRAINAGE PLAN
C-7	CONSTRUCTION DETAILS

IGINEERING, LLC

Project

Subdivision of Land 46 Sconticut Neck Road Fairhaven, Ma 02719

Client

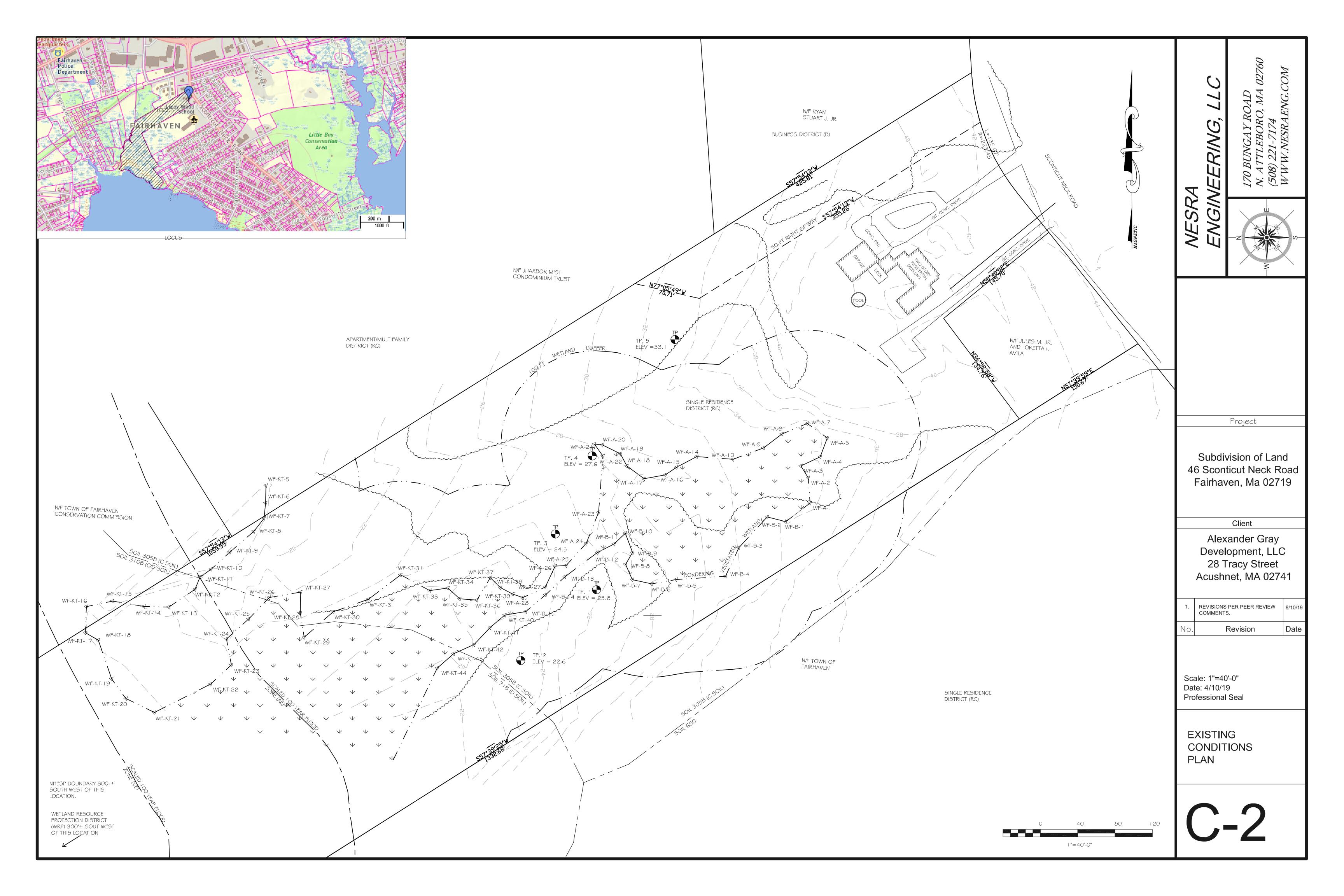
Alexander Gray
Development, LLC
28 Tracy Street
Acushnet, MA 02741

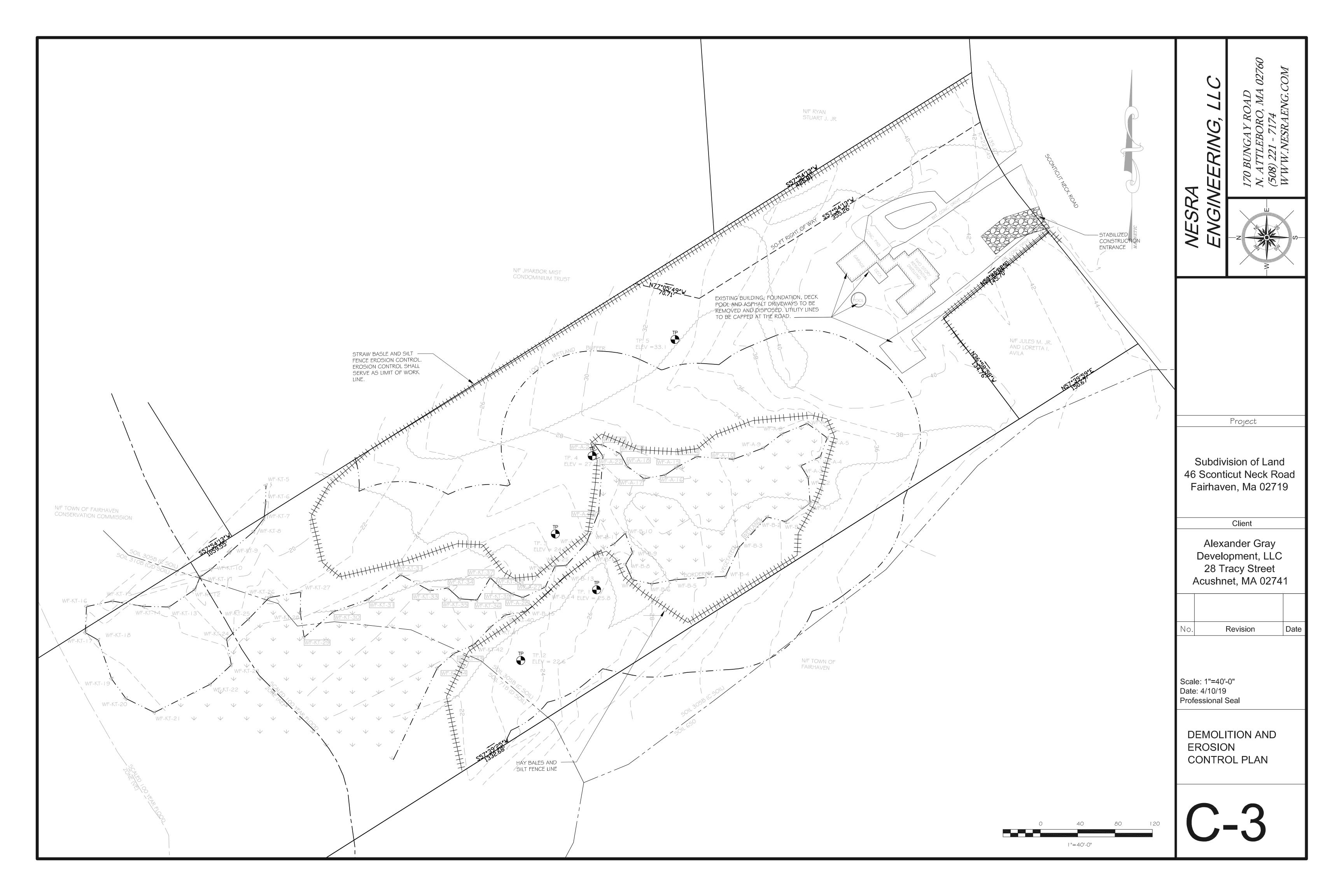
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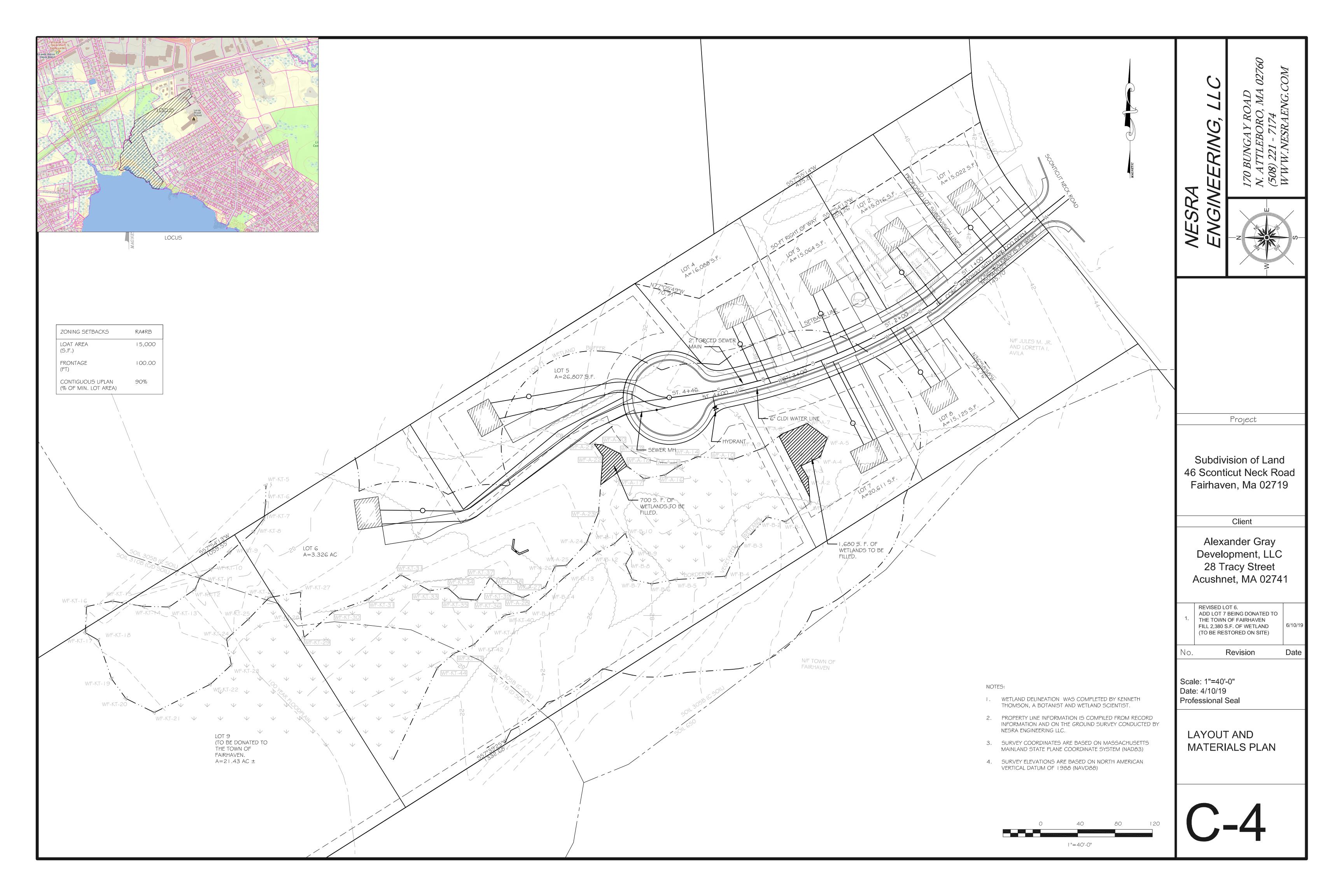
Scale: AS NOTED Date: 4/10/19 Professional Seal

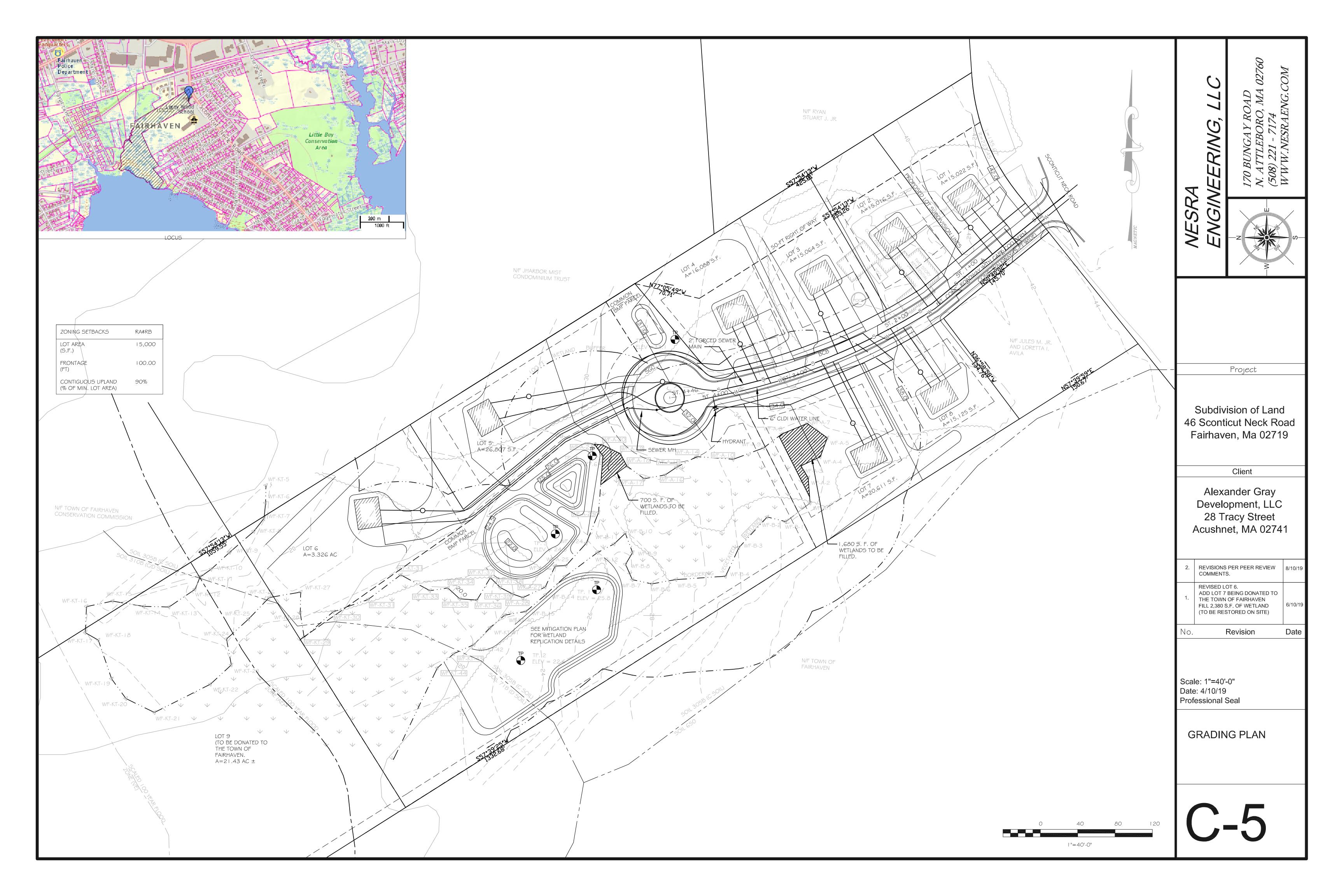
COVER SHEET

C-1

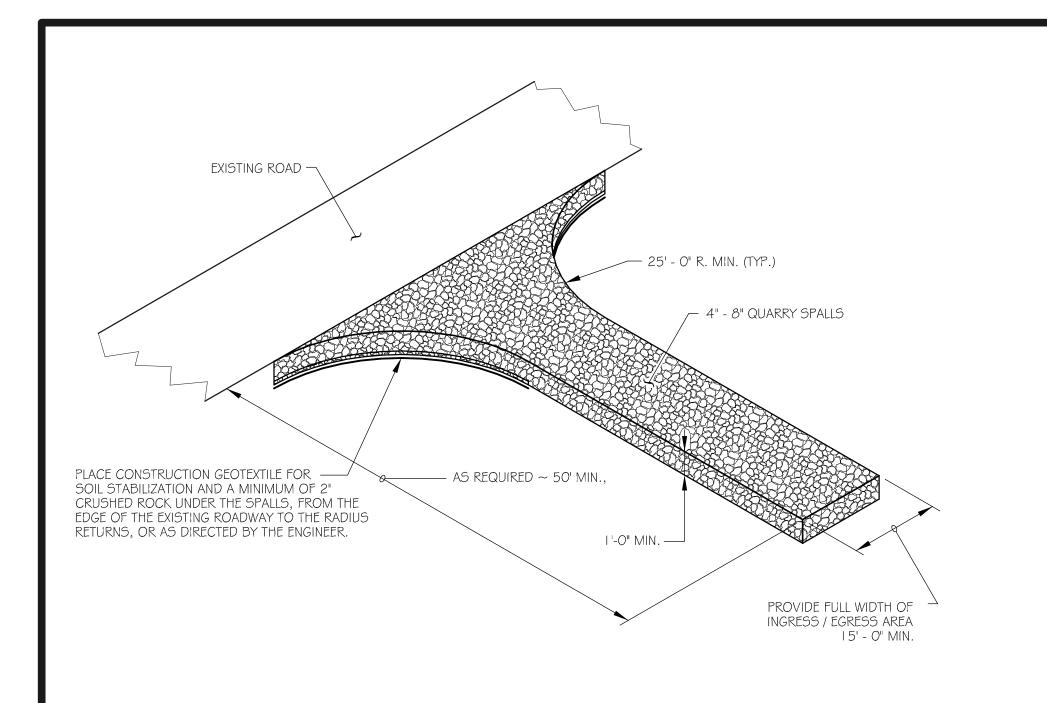




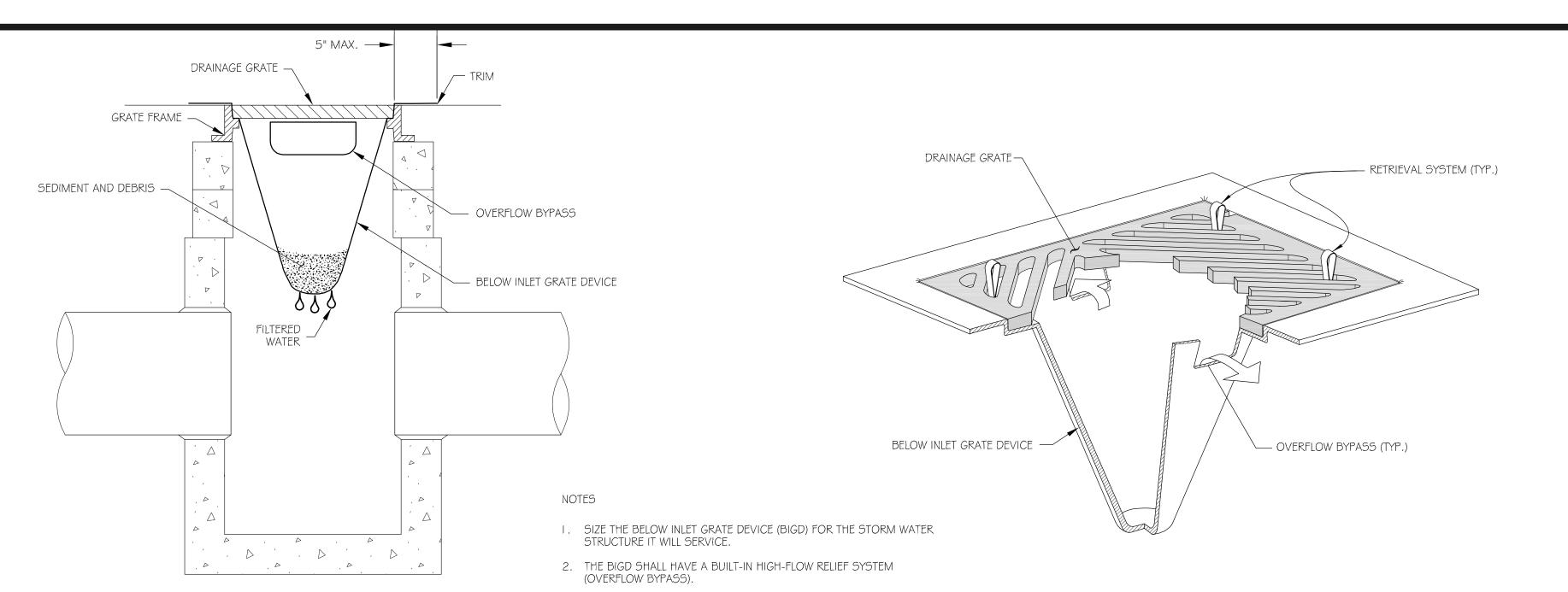








STABILIZED CONSTRUCTION ENTRANCE



STORM DRAIN INLET PROTECTION N.T.S.

3. THE RETRIEVAL SYSTEM MUST ALLOW REMOVAL OF THE BIGD WITHOUT

POLLUTION PREVENTION PLAN, TO BE PREPARED BY THE CONTRACTOR.

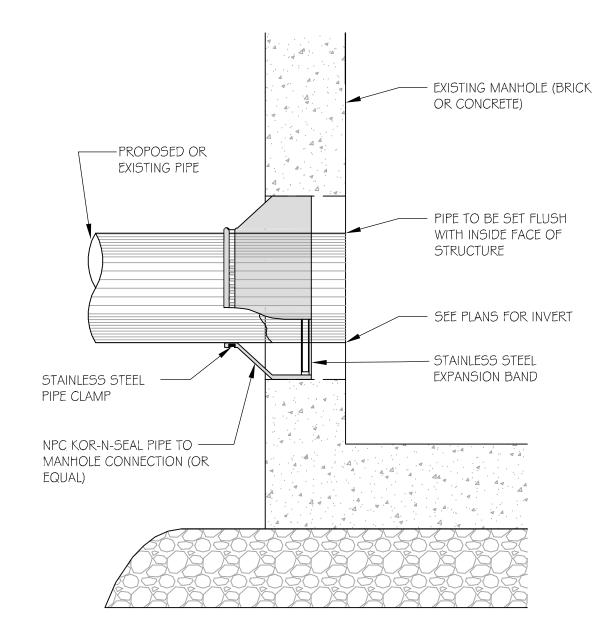
4. PERFORM MAINTENANCE IN ACCORDANCE WITH STORMWATER

SPILLING THE COLLECTED MATERIAL.

- 24" SQ. HEAVY DUTY FRAME & GRATE, LEBARON LF244-2, 4 FLANGE (OR EQUAL) - MORTAR 4 SIDES —ADJUST TO REQUIRED GRADE WITH A MIN. OF TWO COURSES (MAX. 5) BRICK MASONRY SET IN SQUARE -BUTYL RUBBER SECTION JOINT PER LATEST ASTM C443 SPEC. AND FED SPEC. SS-S-210A. —OIL SEPARATOR HOФD LEBARON L204 (OR EQUAL) REINFORCING STEEL CONFORMS TO LATEST ASTM A 185 OR A82 SPEC. NON-SHRINK MORTAR 4'-0" MINIMUM 5" MINIMUM PRECAST CONCRETE ALL AROUND SUMP A .- A .- A .- A .- A > 3/4" CRUSHED STONE BASE - 6" MIN.

- NOTES:
- I. MANHOLE DESIGN TO CONFORM TO LATEST ASTM C-478 SPECIFICATIONS FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS".
- 2. ALL STRUCTURES SHALL BE SUITABLE FOR H-20 LOADING AND SHALL MEET THE REQUIREMENTS OF ASTM C-478.

PRECAST CONCRETE CATCH BASIN N.T.S.

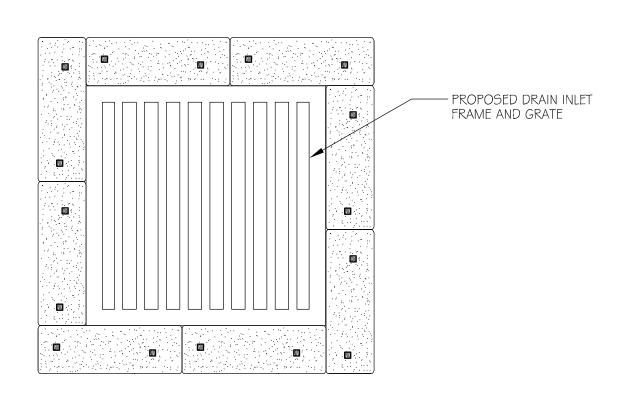


SECTION VIEW

NOTES:

- 1. ALL METAL FIXTURES SHALL BE STAINLESS STEEL
- 2. SERVICE LINE SHALL BE FLUSH WITH THE INSIDE OF THE MANHOLE.
- 3. FOR PROPOSED MANHOLE INSTALLATION AT EXISTING PIPE, CONTRACTOR SHALL EXTEND PIPE INTO NEW MANHOLE USING A SPOOL PIECE OF SAME PIPE MATERIAL WITH FERNCO COUPLES..

CONNECTION TO EXISTING MANHOLE N.T.S.

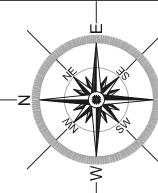


ISOMETRIC VIEW

NOTES:

- I. BALES SHALL BE PLACED IN A ROW WITH THE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- 2. BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE-BARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE ALES TOGETHER.
- 3. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

CATCH BASIN HAYBALE FILTER DETAIL

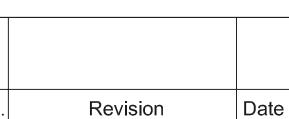


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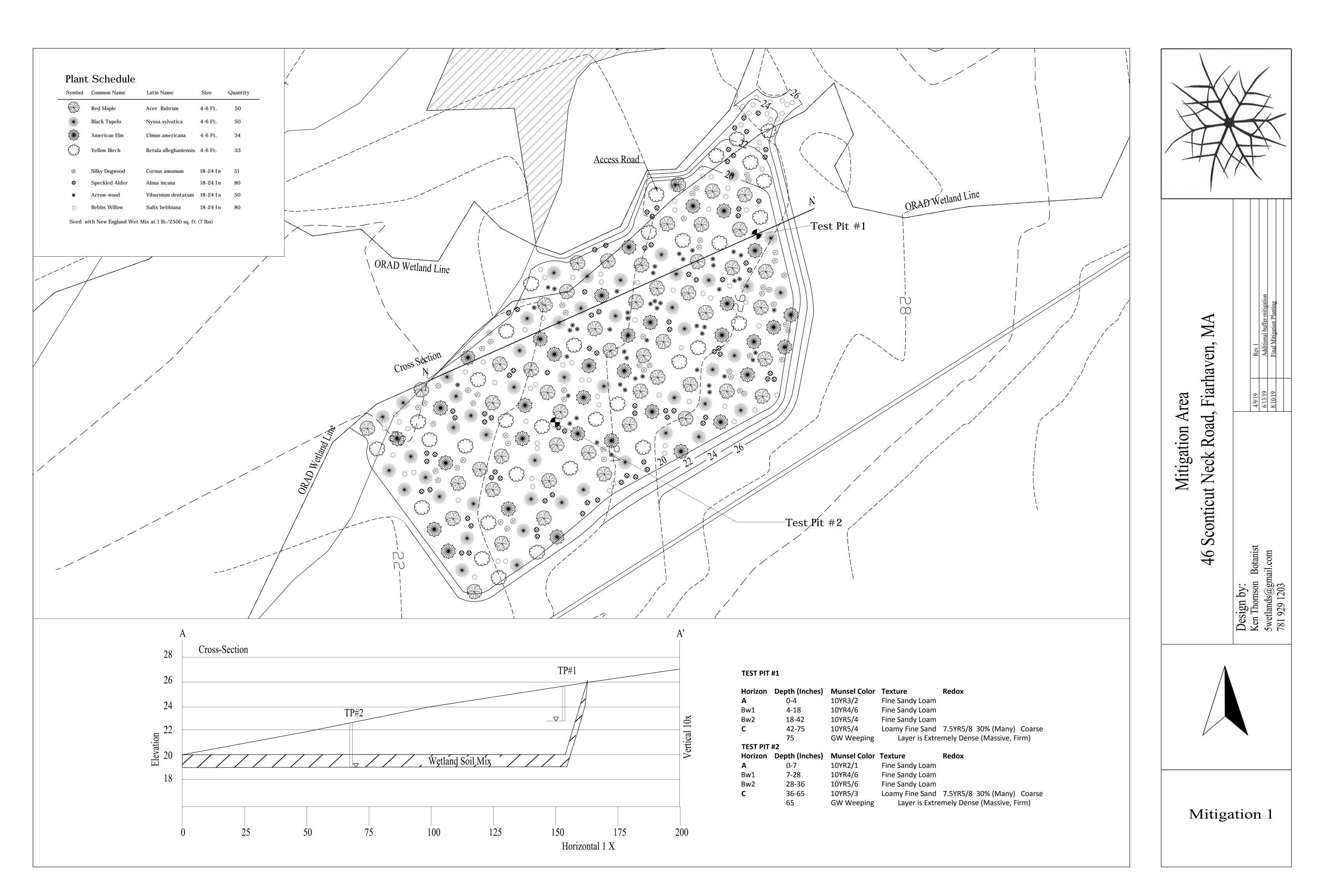
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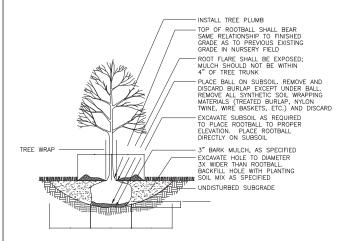


Scale: 1"=40'-0" Date: 4/10/19 Professional Seal

DETAILS

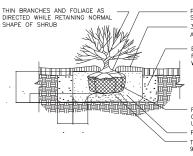
CONSTRUCTION





GRADING AND SOIL MANAGEMENT

- 1. Contractor shall secure all permits required for the work from any city departments, utility companies or other jurisdictions affected by work.
- 2. The Contractor shall be responsible to coordinate the demolition work and related utilities with all trades, if applicable.
- Contractor is responsible for any damage inside and outside the limit of work due to his contract operations.
- 4. All refuse; debris and miscellaneous items to be removed shall be legally disposed of off-site by Contractor.
- 5. Prior to any excavation and erosion barrier will be installed along the wetland edge and the Isolated Wetland in accordance with the site erosion control plan.
- 6. The Wetland Scientist has final say on all matters concerning buffer zone mitigation construction and has stop work authority.
- 7. The wetland Scientist will be on-site during all phases of the buffer zone mitigation operation.
- 8. Restoration of organic soils within the mitigation area will include a 12 inch layer of a approved soil mixture will be spread within the mitigation area.



- PLACE PLANT 2" ABOVE SURROUNDING GRADE - 3" DEPTH MULCH (PULL BACK AWAY FROM BASE OF SHRUB)

EXCAVATE SHRUB BED TO REQUIRED DEPTH AND BACKFILL WITH SPECIFIED SOIL MIX.

ROLL BURLAP BACK FROM TOP 1/3 OF ROOTBALL BEFORE BACKFILLING. UNTIE ROPE FROM TRUNK PLANTING SOIL AS SPECIFIED TOPSOIL DRAINAGE MOUND COMPACTED TO 92% MINIMUM.

NEW ENGLAND WETMIX

The wetland seeds in this mix can be sown by hand, with a hand held spreader, or hydro-seeded on large or hard to reach sites. Lightly rake to insure good seed to soil contact. Seeding can take place on frozen soil, as the freezing and thawing weather of late fall and late winter will work the seed into the soil. If spring conditions are drier than usual watering may be required. If sowing during the summer months supplemental watering will likely be required until germination. A light mulch of clean, weed free straw is recommended.

APPLICATION RATE: 1 lb/2500 sq. ft. 18 lbs/acre

SPECIES

Fox Sedge (Carex vulpinoidea), Lurid Sedge (Carex lurida), Blunt Broom Sedge (Carex scoparia), Blue Vervain (Verbena hastata), Fowl Bluegrass (Poa palustris), Hop Sedge (Carex lupulina), Green Bulrush (Scirpus atrovirens), Creeping Spike Rush (Eleocharis palustris), Fringed Sedge (Carex crinita), Soft Rush (Juncus effusus), Spotted Joe Pye Weed (Eupatorium maculatum), Rattlesnake Grass (Glyceria canadensis), Swamp aster (Aster puniceus), Blueflag (Iris versicolor), Swamp Milkweed (Asclepias incarnata), Square stemmed Monkey Flower (Mimulus ringens).

PLANTING NOTES

- All new plant material shall conform to the minimum guidelines established by the American Standard for Nursery Stock published by the American Association of Nurserymen, Inc. In addition, all new plant material for the project shall be of Specimen quality.
- 2. All new plants to be balled and burlapped or container-grown, unless otherwise noted on Plant List.
- 3. If discrepancies exist between the number of plants drawn on the planting plans and the number of plants in the plant list, the plans shall govern.
- $4. The \ Contractor \ shall \ supply \ all \ new \ plant \ material \ in \ quantities \ sufficient \ to \ complete \ the \ planting \ shown \ on \ the \ Drawings.$
- 5. Any proposed substitutions of plant species shall be made with plants of equivalent overall form, height, branching habit, flower, leaf, color, fruit and culture only as approved by the Project Engineer and Wetland Scientist.
- 6. All new plants shall be tagged and approved by the Project Engineer and Wetland Scientist at the nursery prior to digging or delivery to site.
- 7. Contractor shall locate and verify all existing utility lines prior to planting and shall report any conflicts to the Project Engineer.
- 8. Stake location of all proposed planting for approval by the Project Engineer and Wetland Scientist prior to the commencement of planting.
- 9. New plant material branching and roots shall bear the same relationship to grade as they bore to previous grade at the Nursery.
- 10. All plant beds to receive three inches (3") of shredded bark mulch per Tree and Shrub Specifications.
- 11. With the exception of Buffer Zone Mitigation Areas, Contractor shall prepare all shrub and tree planting beds to a minimum depth of twenty-four inches (12") with planting soil.
- 12. Contractor shall install erosion controls up slope of wetlands.



Mitigation 2

Scale

Planting Details 46 Sconticut Neck Road, Fairhaven, MA

Design by: Ken Thomson Botanist 5wetlands@gmail.com 781 929 1203



