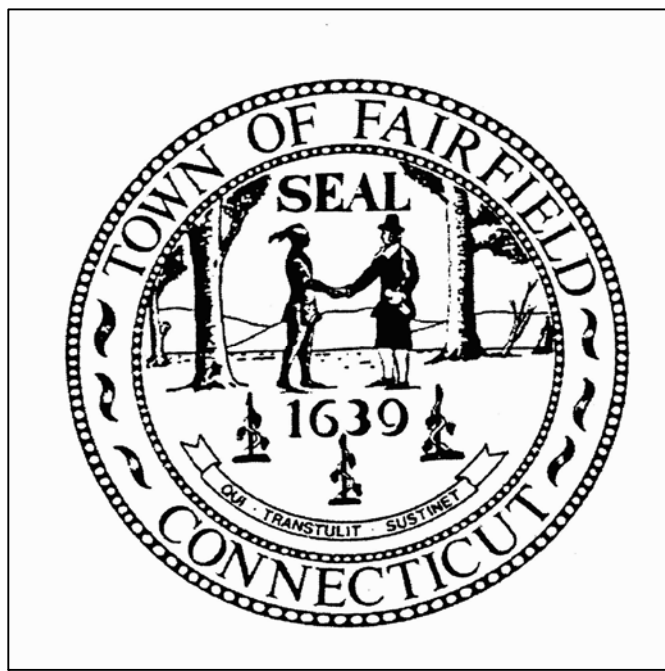
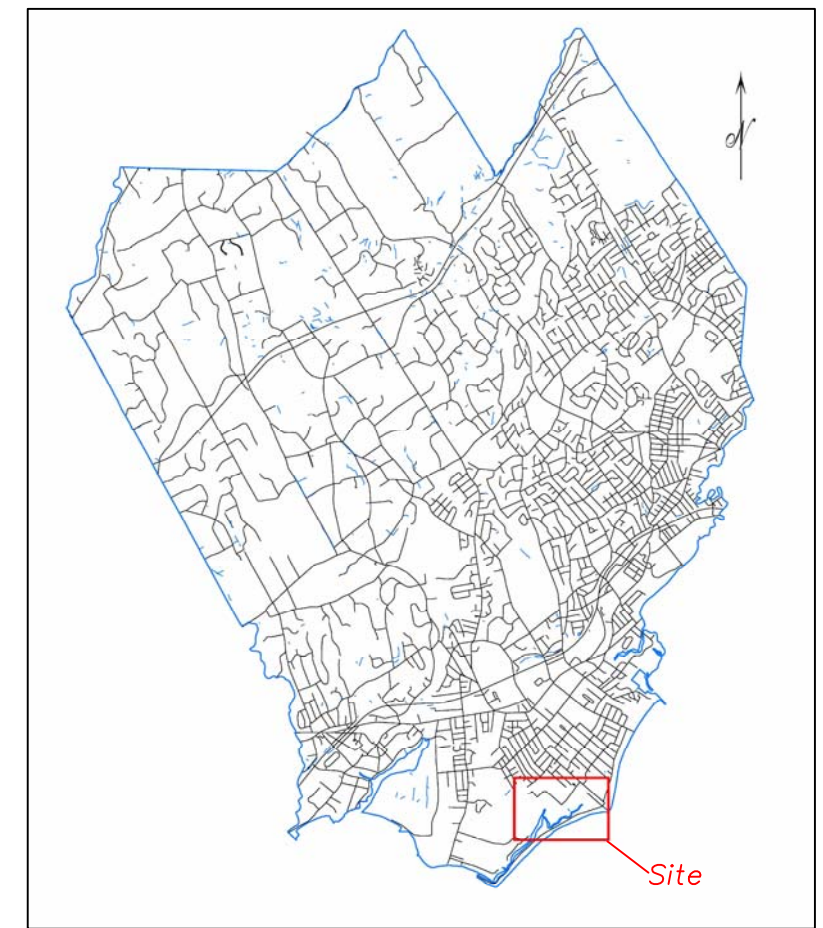


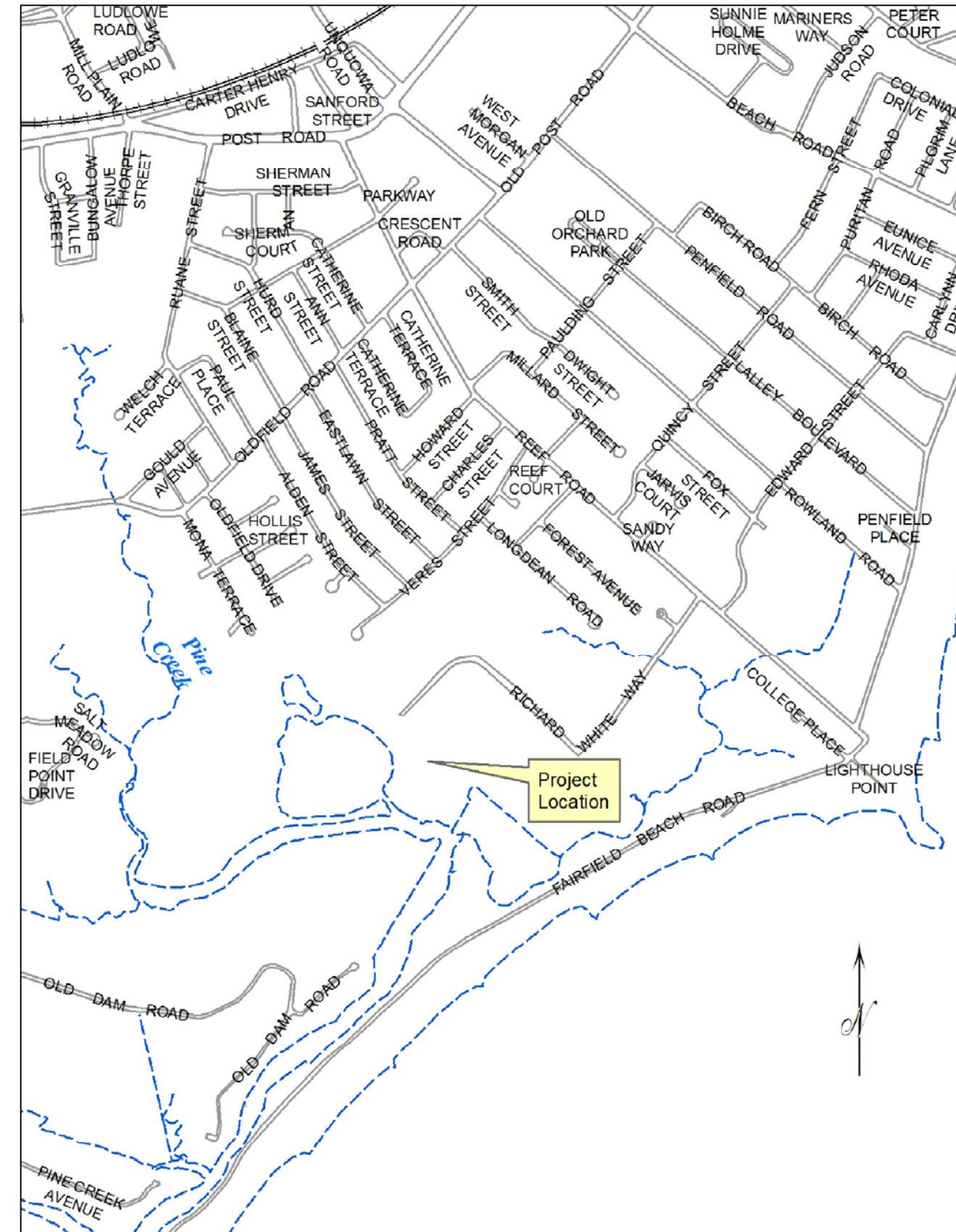


LANDSCAPE BERM and LANDFILL CAPPING PROJECT FAIRFIELD, CT June 21, 2017



Key Map

LIST OF DRAWINGS	
SHEET NO.	SHEET TITLE
1	AERIAL OVERVIEW OF SITE
2	EXISTING CONDITIONS
3	PROPOSED GRADING AND DRAINAGE
4	PROPOSED PLANTING AND SCREENING
5	EROSION AND SEDIMENTATION CONTROL
6	PROPOSED CAPPING DETAIL
7	CROSS SECTIONS
8	DETAILS AND SPECIFICATIONS



Location Map
Scale: 1"=1000'



Prepared by
Osprey Environmental Engineering, LLC
146 East Main Street, Clinton, CT 06413
860-669-8651



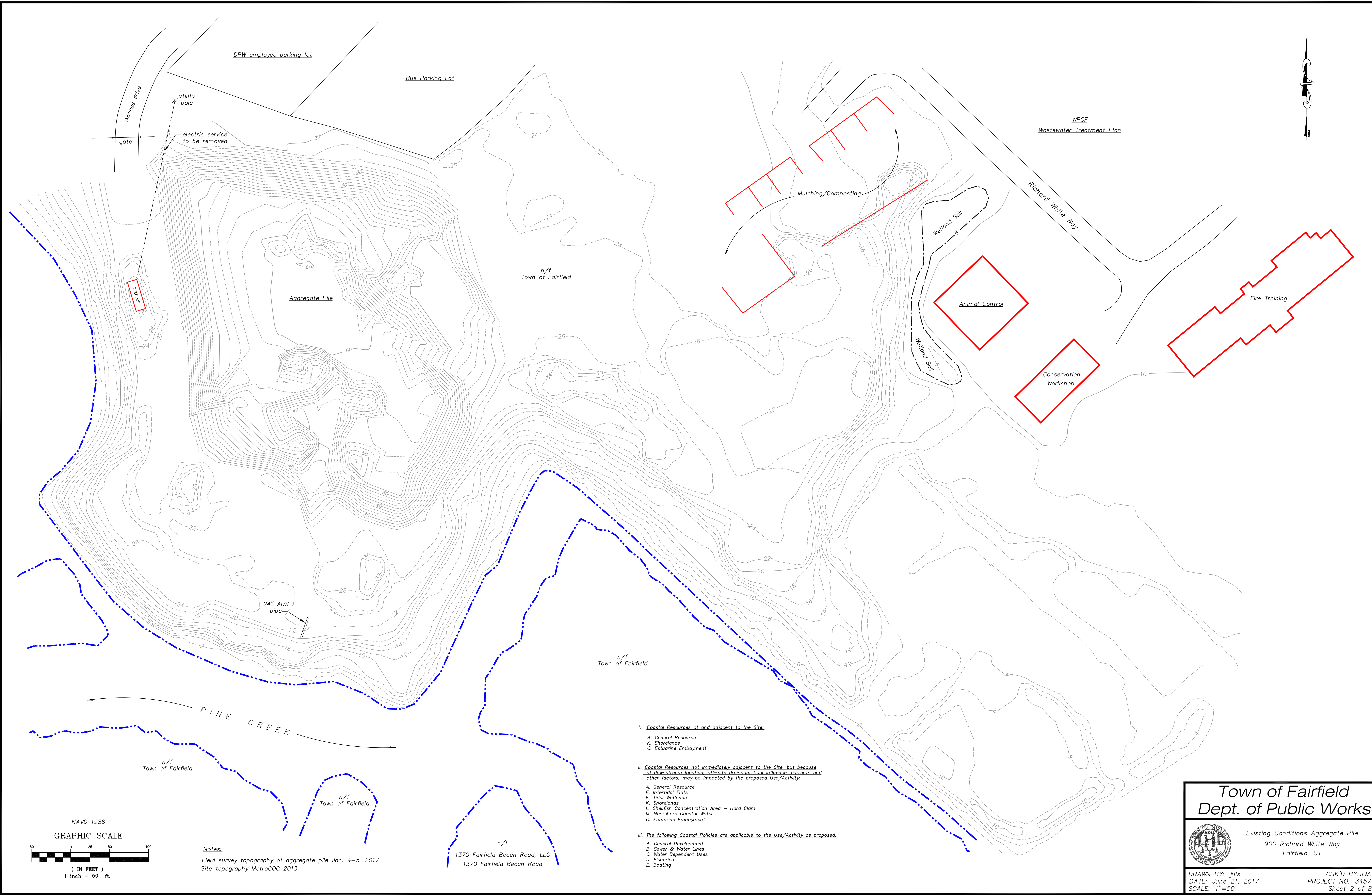
**Town of Fairfield
Dept. of Public Works**



Aerial Overview of Site
900 Richard White Way
Fairfield, CT

DRAWN BY: juls
DATE: June 21, 2017
SCALE: N.T.S.

CHK'D BY: J.M.
PROJECT NO. 3457
Sheet 1 of 8



- I. Coastal Resources at and adjacent to the Site:
- A. General Resource
 - K. Shorelands
 - O. Estuarine Embayment
- II. Coastal Resources not immediately adjacent to the Site, but because of downstream location, off-site drainage, tidal influence, currents, and other factors, may be impacted by the proposed Use/Activity:
- A. General Resource
 - E. Intertidal Flats
 - F. Tidal Wetlands
 - K. Shorelands
 - L. Shellfish Concentration Area – Hard Clam
 - M. Nearshore Coastal Water
 - O. Estuarine Embayment
- III. The following Coastal Policies are applicable to the Use/Activity as proposed:
- A. General Development
 - B. Sewer & Water Lines
 - C. Water Dependent Uses
 - D. Fisheries
 - E. Boating

Notes:
Field survey topography of aggregate pile Jan. 4–5, 2017
Site topography MetroCOG 2013

n/f
1370 Fairfield Beach Road, LLC
1370 Fairfield Beach Road



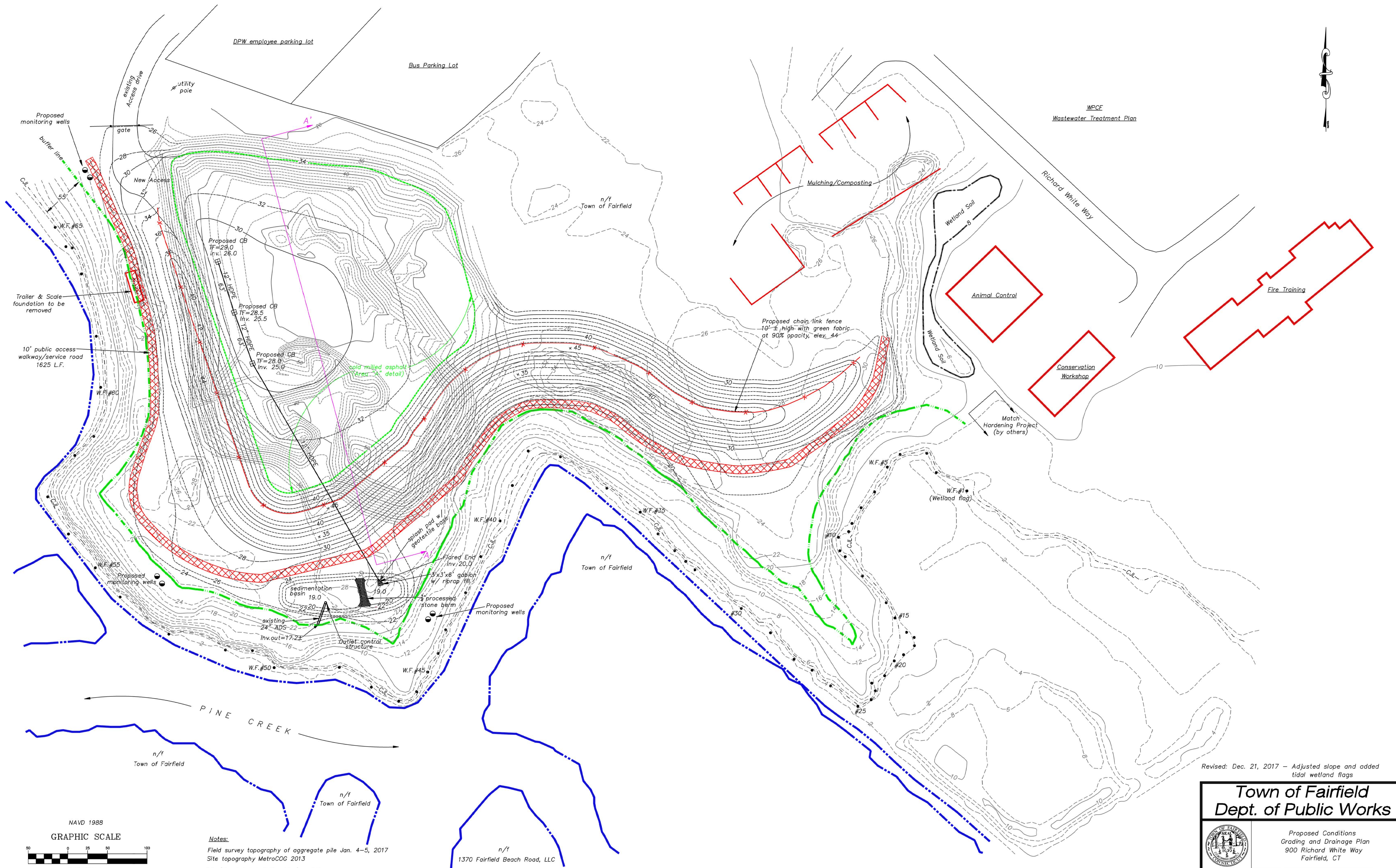
Town of Fairfield

Dept. of Public Works

Existing Conditions Aggregate Pile
900 Richard White Way
Fairfield, CT

DRAWN BY: juls
DATE: June 21, 2017
SCALE: 1"=50'

CHK'D BY: J.M.
PROJECT NO: 3457
Sheet 2 of 8



Notes:

Field survey topography of aggregate pile Jan. 4-5, 2017
Site topography MetroCOG 2013

CJL (Coastal Jurisdiction Line) = 5.2

Tidal wetland flags (W.F.) field located Dec. 20, 2017

Revised: Dec. 21, 2017 - Adjusted slope and added tidal wetland flags

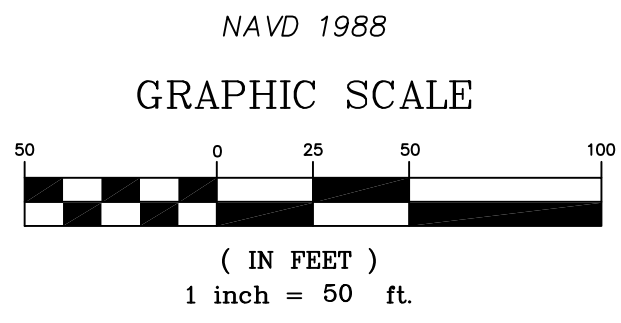
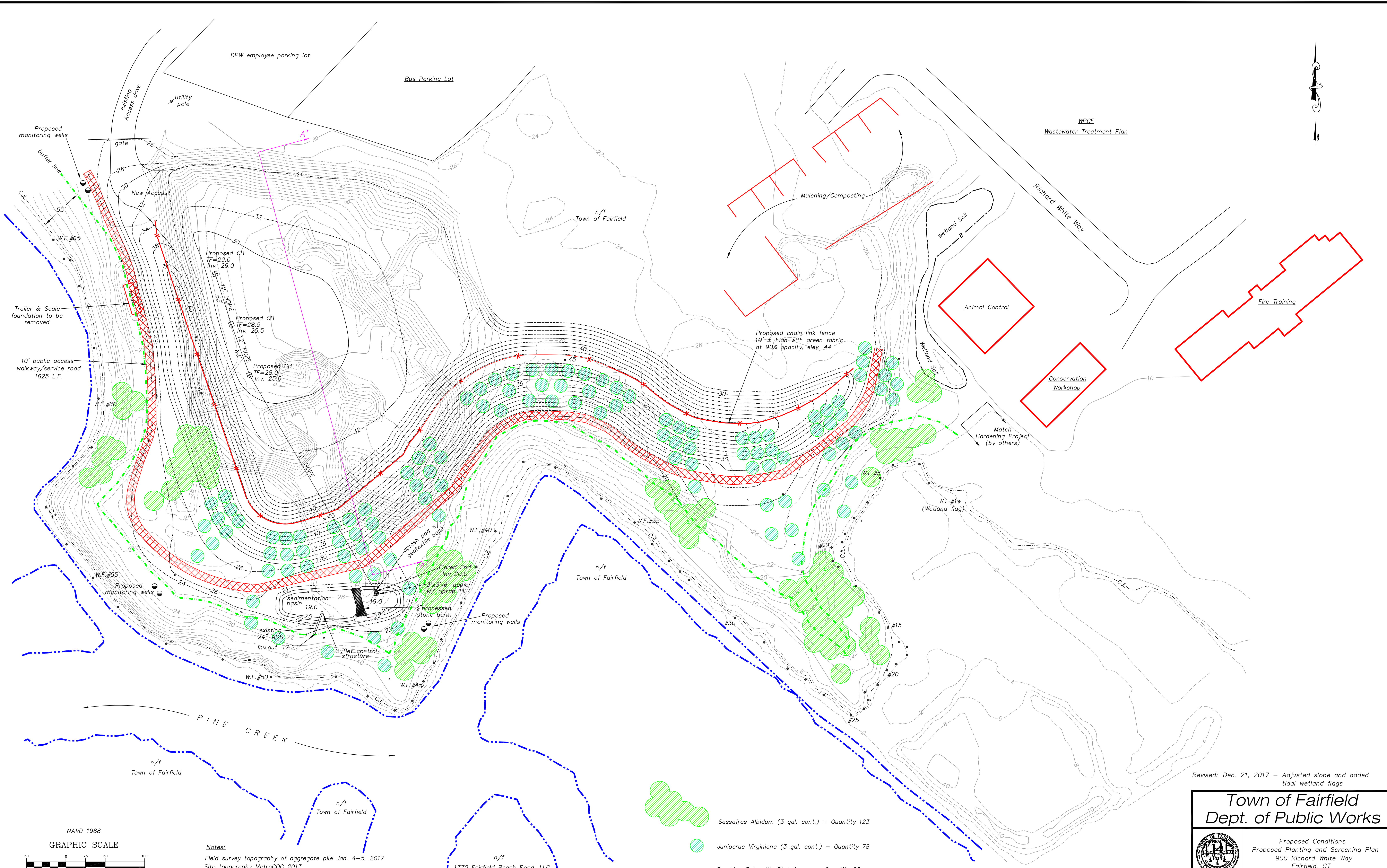
**Town of Fairfield
Dept. of Public Works**



Proposed Conditions
Grading and Drainage Plan
900 Richard White Way
Fairfield, CT

DRAWN BY: juls
DATE: June 21, 2017
SCALE: 1"=50'

CHK'D BY: J.M.
PROJECT NO: 3457
Sheet 3 of 8



Notes:
Field survey topography of aggregate pile Jan. 4-5, 2017
Site topography MetroCOG 2013
C.J.L. (Coastal Jurisdiction Line) = 5.2
Tidal wetland flags (W.F.) field located Dec. 20, 2017

- Sassafras Albidum (3 gal. cont.) - Quantity 123
 - Juniperus Virginiana (3 gal. cont.) - Quantity 78
 - Perching Pole with Bird Houses - Quantity 26
- Note - Grass areas to be seeded with coastal meadow mix

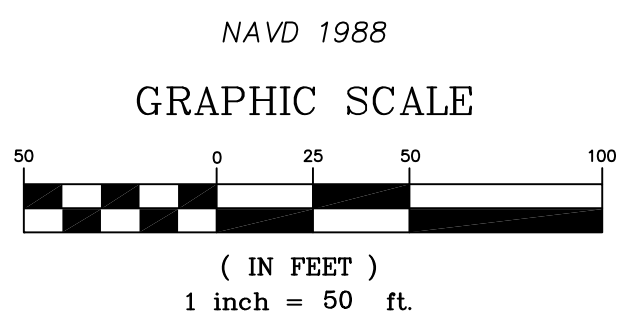
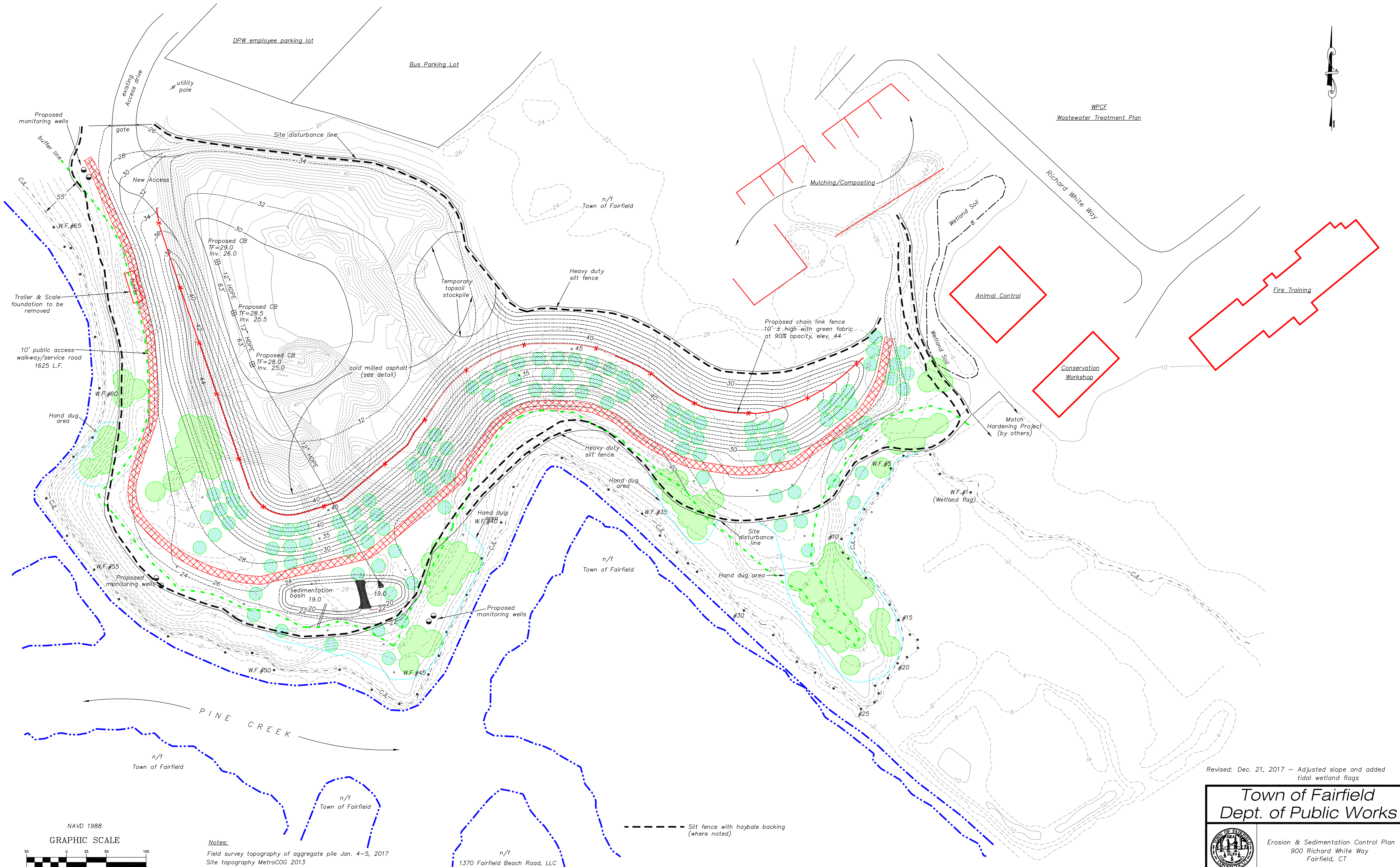
Revised: Dec. 21, 2017 - Adjusted slope and added tidal wetland flags

Town of Fairfield
Dept. of Public Works

Proposed Conditions
Proposed Planting and Screening Plan
900 Richard White Way
Fairfield, CT

DRAWN BY: juls
DATE: June 21, 2017
SCALE: 1"=50'

CHK'D BY: J.M.
PROJECT NO: 3457
Sheet 4 of 8

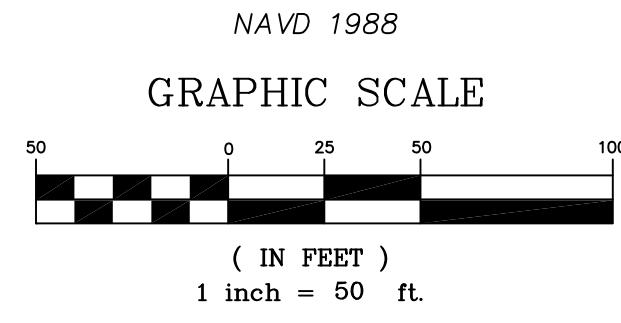
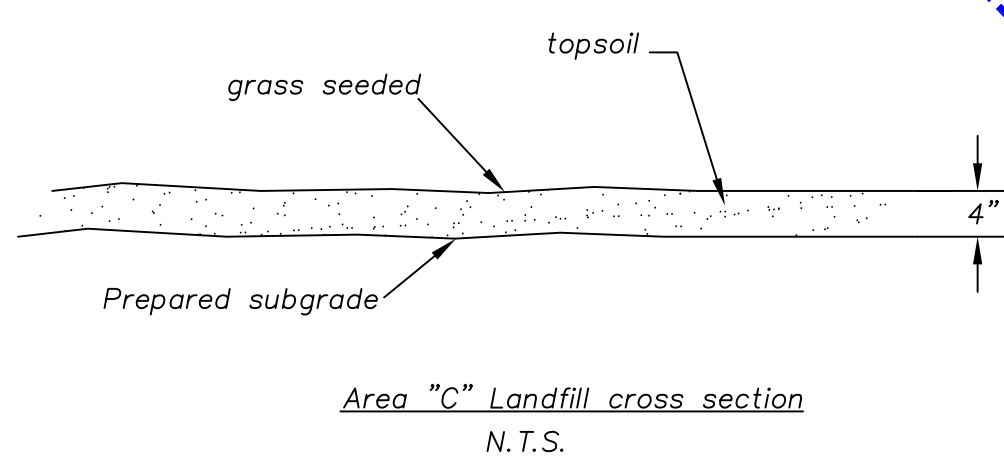
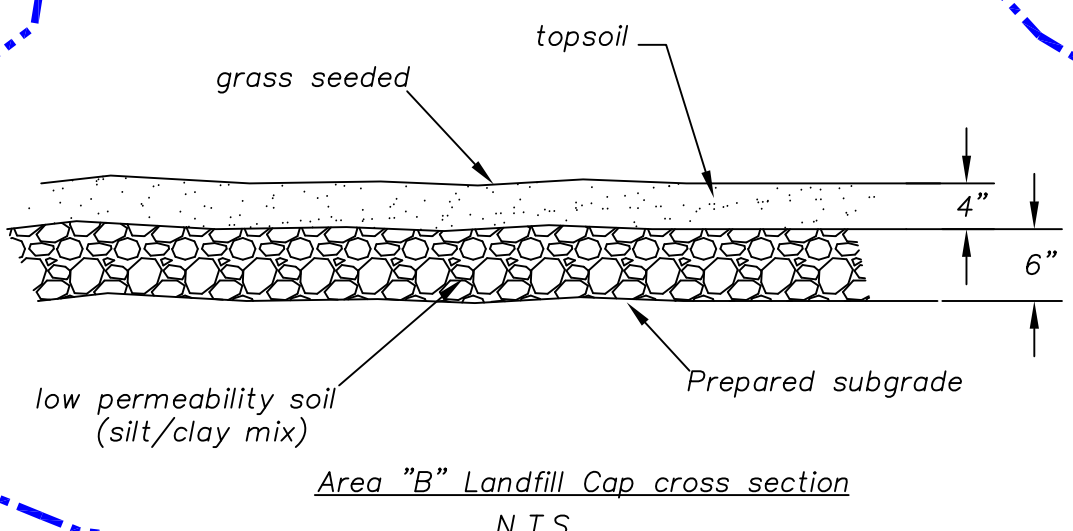
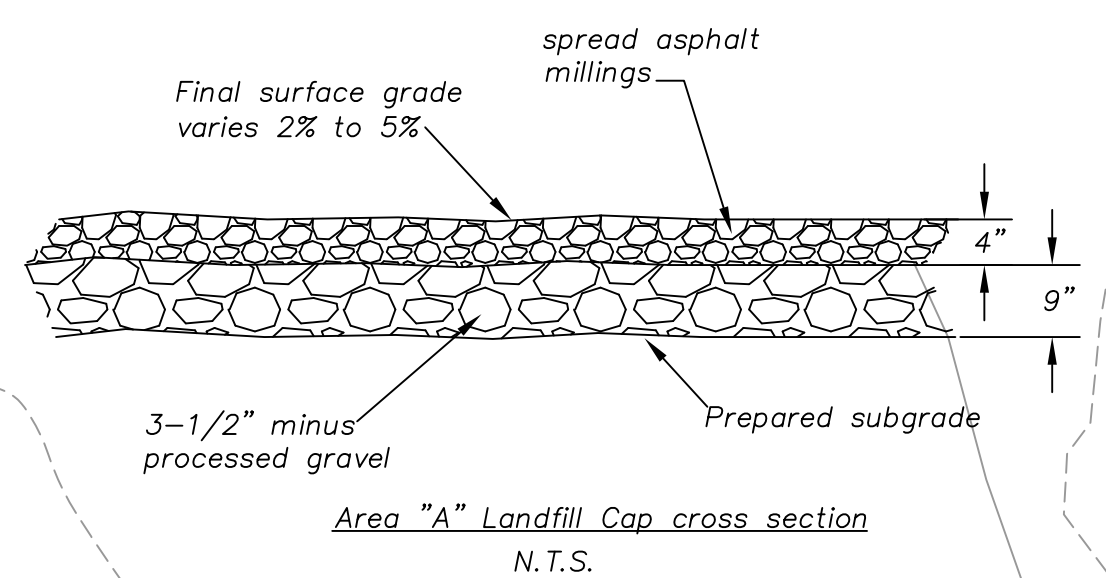
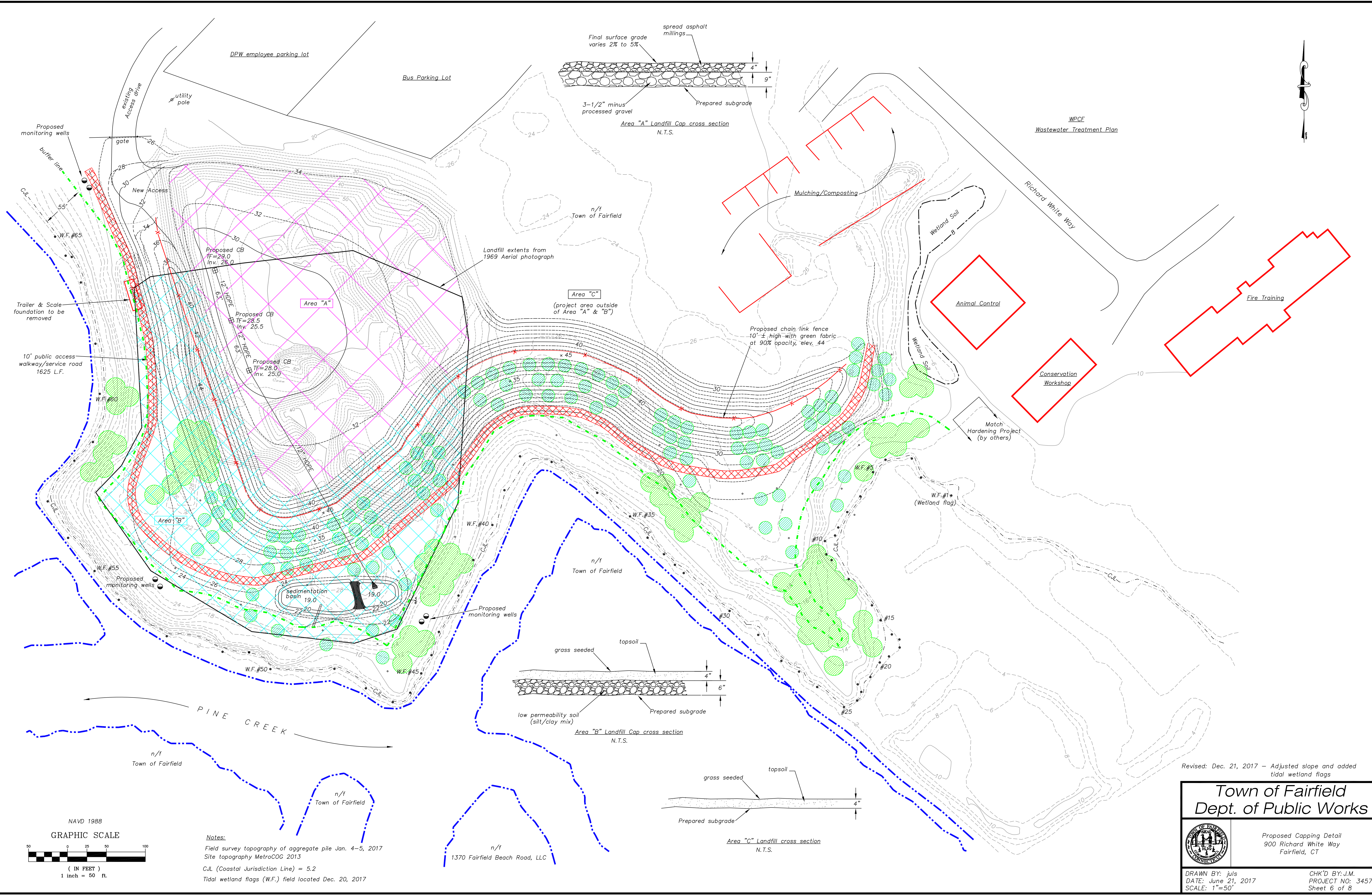


Notes:
Field survey topography of aggregate pile Jan. 4-5, 2017
Site topography MetroCOG 2013
CJL (Coastal Jurisdiction Line) = 5.2
Tidal wetland flags (W.F.) field located Dec. 20, 2017

--- Silt fence with haybale backing (where noted)

Revised: Dec. 21, 2017 - Adjusted slope and added tidal wetland flags

Town of Fairfield Dept. of Public Works	
	Erosion & Sedimentation Control Plan 900 Richard White Way Fairfield, CT
DRAWN BY: juls DATE: June 21, 2017 SCALE: 1"=50'	CHK'D BY: J.M. PROJECT NO: 3457 Sheet 5 of 8



Notes:

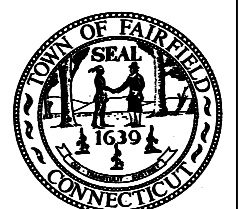
Field survey topography of aggregate pile Jan. 4-5, 2017

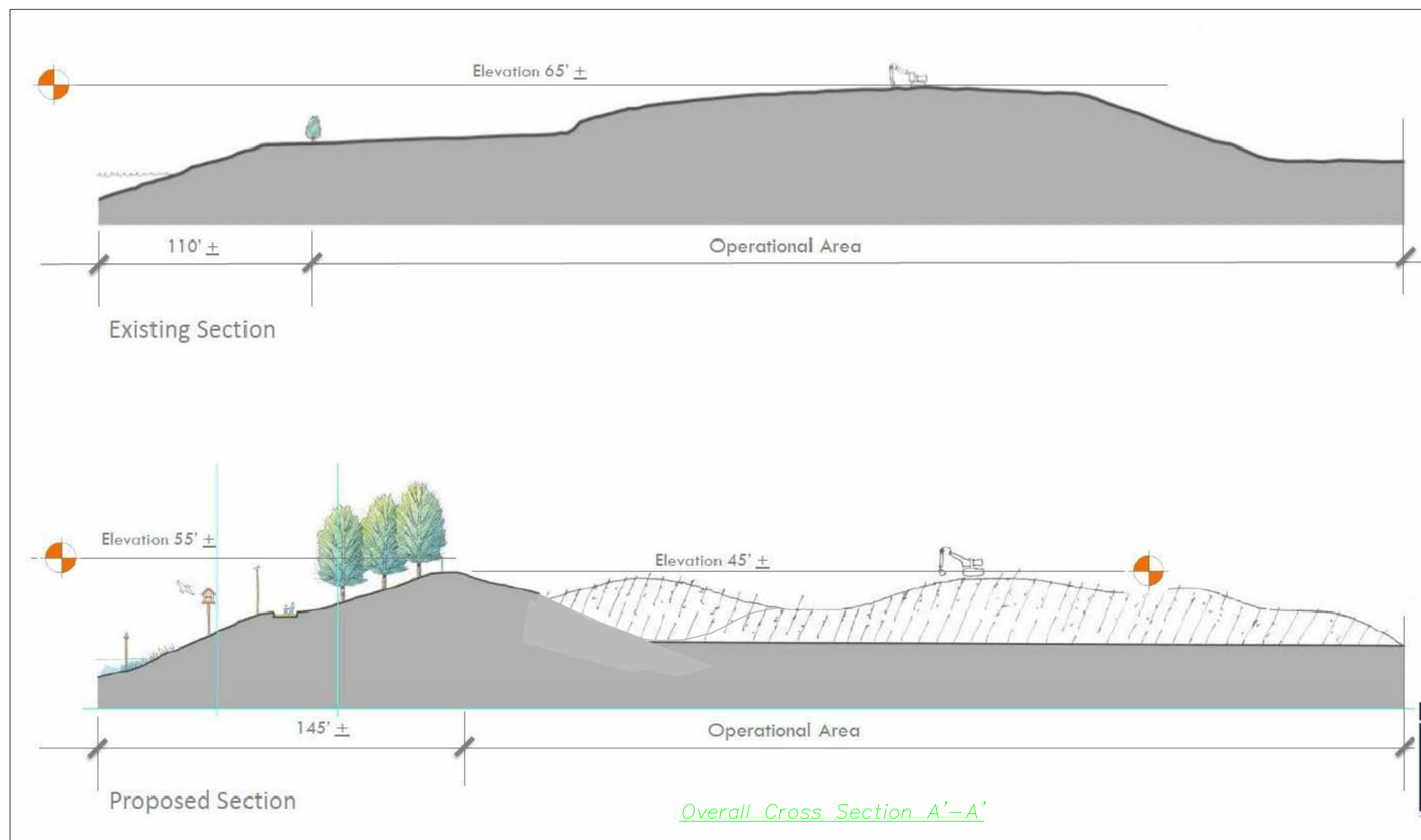
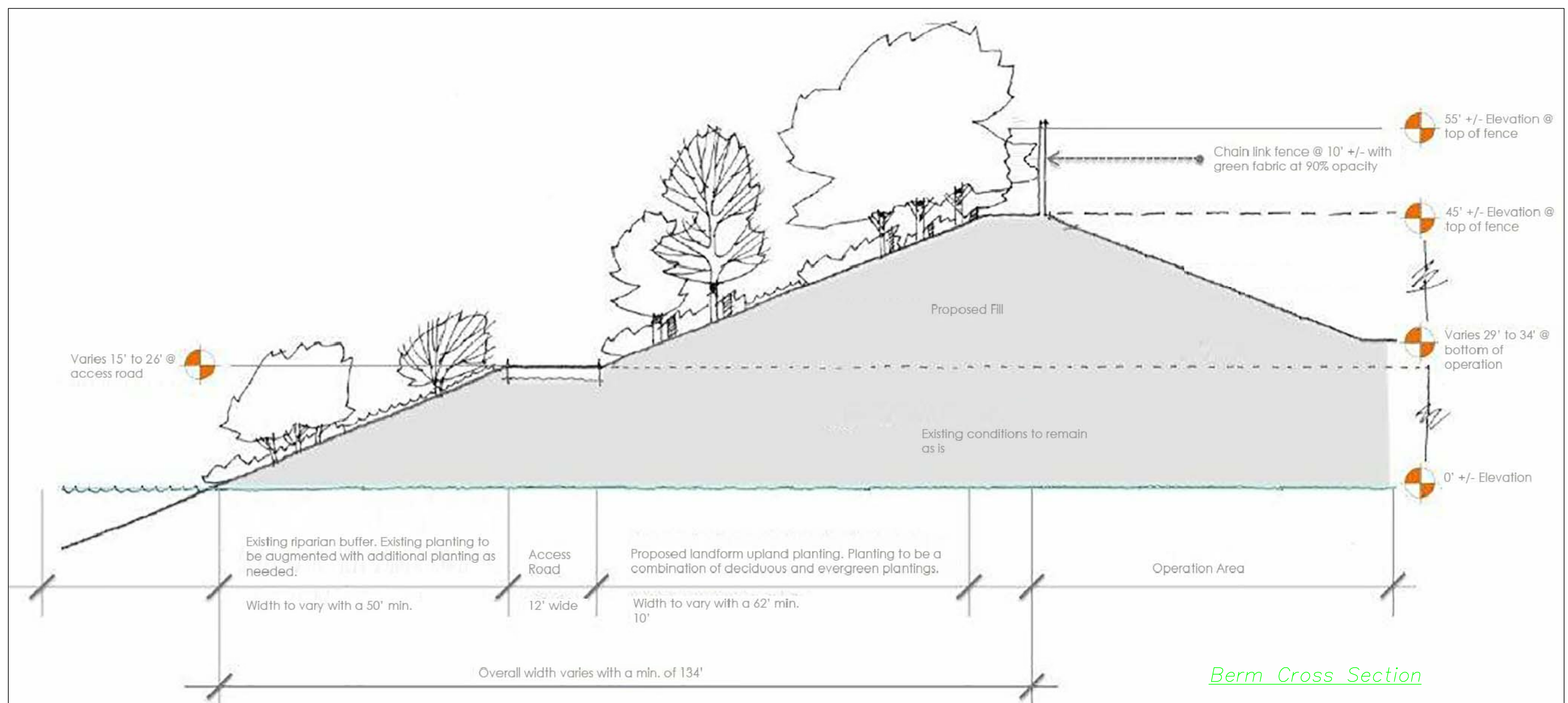
Site topography MetroCOG 2013

CJL (Coastal Jurisdiction Line) = 5.2

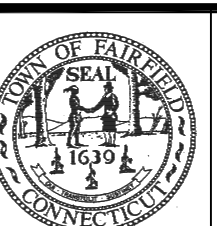
Tidal wetland flags (W.F.) field located Dec. 20, 2017

Revised: Dec. 21, 2017 - Adjusted slope and added tidal wetland flags

Town of Fairfield Dept. of Public Works	
	Proposed Capping Detail 900 Richard White Way Fairfield, CT
DRAWN BY: juls DATE: June 21, 2017 SCALE: 1"=50'	CHK'D BY: J.M. PROJECT NO: 3457 Sheet 6 of 8



Town of Fairfield
Dept. of Public Works



Cross Sections
900 Richard White Way
Fairfield, CT

DRAWN BY: juls
DATE: June 21, 2017
SCALE: N.T.S.

CHK'D BY: J.M.
PROJECT NO. 3457
Sheet 7 of 8

EROSION & SEDIMENT CONTROL PLAN

TOTAL PARCEL AREA = 124 ACRES
PROJECT AREA WITHIN LIMITS OF DISTURBANCE = 6 ACRES
GRADING OF THE BERM WILL BEGIN WITHIN 1 MONTH OF PERMIT APPROVAL. BERM INSTALLATION, LANDSCAPING AND DRAINAGE WILL BE COMPLETED WITHIN 1 YEAR OF APPROVAL, AND REMOVAL OF REMAINING MATERIAL TO FINAL GRADES WILL BE COMPLETED WITHIN 5 YEARS.
CONSTRUCTION ACTIVITIES SHALL INCLUDE STAKEOUT OF BERM AND SEDIMENTATION BASIN AREAS, CLEARING OF VEGETATION, ROUGH GRADING, INSTALLATION OF BERM, BASIN, FENCE, AND ACCESS DRIVE AND INSTALLATION MONITORING WELLS.
EMERGENCY CONTACT PERSON: SCOTT BARTLETT, PHONE: 203 767 2128

SOIL EROSION & SILTATION CONTROL PLAN

1. EROSION & SEDIMENTATION CONTROL MEASURES SHALL CONFORM TO 'CONN. GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL' - LATEST EDITION BY THE CONN. COUNCIL ON SOIL AND WATER CONSERVATION.
2. SILTATION CONTROL BARRIERS CONSISTING OF FABRIC SILT FENCES SHALL BE INSTALLED IN THE LOCATIONS SHOWN HEREON PRIOR TO START OF CONSTRUCTION AND MAINTAINED IN FUNCTIONAL OPERATION UNTIL 1 ESTABLISHMENT OF GROUND COVER.
3. DISTURBED AREAS SHALL BE KEPT TO A MINIMUM SIZE PRACTICABLE TO MINIMIZE EROSION POTENTIAL AND GROUND COVER APPLIED AS SOON AS POSSIBLE TO STABILIZE DISTURBED AREAS.
4. ADDITIONAL CONTROL MEASURES SHALL BE TAKEN DURING CONSTRUCTION AS NEEDED TO MINIMIZE EROSION AND PREVENT OFF-SITE SEDIMENTATION.
5. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REPAIR OF ALL SILTATION AND EROSION CONTROL MEASURES. HE SHALL PERFORM SCHEDULED INSPECTIONS AND SHALL ALSO INSPECT THE SILTATION AND EROSION CONTROL MEASURES AFTER EACH STORM EVENT UNTIL THE ESTABLISHMENT OF SUITABLE GROUND COVER.
6. TOPSOIL PLACEMENT SHALL BE 3" MINIMUM THICKNESS. FERTILIZER, LIME, AND SEED APPLICATION RATES SHOULD BE AS RECOMMENDED BY THE PRODUCT MANUFACTURER AND/OR AS RECOMMENDED BY A SOILS ANALYSIS LABORATORY. GRASS SHALL BE PERENNIAL FESCUE MIXTURE. SLOPES GREATER THAN 2:1 WILL BE STABILIZED WITH AN EROSION CONTROL BLANKET.

A. PURPOSE - EROSION CONTROL ALL CONSTRUCTION ACTIVITIES INVOLVING THE REMOVAL OR DISTURBANCE OF SOILS ARE TO BE PROVIDED WITH APPROPRIATE PROTECTIVE MEASURES TO MINIMIZE EROSION AND CONTAIN SEDIMENT DISPOSITION WITHIN THE AREA UNDER DEVELOPMENT. THE MINIMUM STANDARD FOR INDIVIDUAL MEASURES SHALL BE THOSE OUTLINED IN THE 'CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL' 1985 EDITION AS AMENDED TO DATE. THOSE METHODS DEEMED MOST EFFECTIVE FOR THIS PROJECT ARE DESCRIBED HEREIN.

B. GENERAL GUIDELINES-

1. EROSION CONTROL OTHER THAN CONSTRUCTION SPECIFICALLY SHOWN ON THESE APPROVED PLANS.
2. NO ACTIVITIES SHALL BE CONDUCTED WITHIN DESIGNATED WETLAND AREAS, WATERCOURSES, FLOOD PLAINS OR WITHIN CHANNEL ENCROACHMENT LINES WITHOUT THE PRIOR APPROVAL OF THE TOWN PLANNING AND ZONING COMMISSION AND INLAND WETLANDS COMMISSION. WHEREVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED.
3. ONLY THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME DURING CONSTRUCTION.
4. PRIOR TO THE START OF CONSTRUCTION, TEMPORARY BAILED HAY EROSION CHECKS, SEDIMENTATION FENCES AND OTHER APPROVED SEDIMENT CONTROL MEASURES SHALL BE IN PLACE WHERE SHOWN ON THESE PLANS AND AT OTHER LOCATIONS WHERE DEEMED NECESSARY. WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE PERIOD OF EXPOSURE SHALL BE KEPT TO A MINIMUM, INSTALLING PERMANENT AND FINAL VEGETATION, STRUCTURES, ETC. AT THE EARLIEST POSSIBLE OPPORTUNITY.
6. CONSTRUCTION EQUIPMENT SHALL NOT UNNECESSARILY CROSS LIVE STREAMS EXCEPT BY MEANS OF BRIDGES, CULVERTS OR OTHER APPROVED MEANS.
7. ALL TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL REMAIN IN PLACE AND BE MAINTAINED REGULARLY IN PROPER FUNCTIONING CONDITION, UNTIL ALL AREAS EXPOSED DURING SITE CONSTRUCTION HAVE BEEN SUITABLY STABILIZED WITH PAVEMENT, PERMANENT STRUCTURES AND/OR FINAL VEGETATIVE COVER.
8. CUT AND FILL SLOPES SHALL NOT BE STEEPER THAN 2:1 UNLESS STABILIZED BY A GEOTEXTILE MAT.
9. ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SURFACE WATER FROM DAMAGING THE CUT FACE OF EXCAVATIONS OR THE SLOPING SURFACES OF FILLS.
10. FILL SHALL BE PLACED AND COMPACTED SO AS TO MINIMIZE SLIDING OR EROSION OF THE SOIL.

LAND GRADING

A. ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH APPROVED SEDIMENT CONTROL PLAN UNTIL THEY ARE PERMANENTLY STABILIZED.
B. ALL SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN. C. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AN AMOUNT NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS.
D. MAINTENANCE ALL STRUCTURAL NONSTRUCTURAL AND VEGETATIVE SEDIMENT AND EROSION CONTROL PRACTICES IMPLEMENTED DURING LAND GRADING OPERATIONS SHALL BE MAINTAINED ACCORDING TO REQUIREMENTS OUTLINED ON THIS PLAN.

STOCKPIILING

TOPSOIL SHALL BE STOCKPILED IN SUCH A MANNER THAT NATURAL DRAINAGE IS NOT OBSTRUCTED AND NO OFF-SITE SEDIMENT DAMAGE SHALL RESULT.

SEDIMENT BARRIER

A SEDIMENT BARRIER SHALL SURROUND ALL TOPSOIL STOCKPILES.

TEMPORARY SEEDING

TEMPORARY SEEDING OF STOCKPILES SHALL BE COMPLETED WITHIN 15 DAYS OF THE FORMATION OF THE STOCKPILE, IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE COVER REQUIREMENTS.

LIMING

WHERE THE pH OF THE SUBSOIL IS 6.0 OR LESS, GROUND AGRICULTURAL LIMESTONE SHALL BE SPREAD IN ACCORDANCE WITH THE APPLICABLE SOIL TEST OR THE VEGETATIVE ESTABLISHMENT PRACTICE

APPLYING TOPSOIL

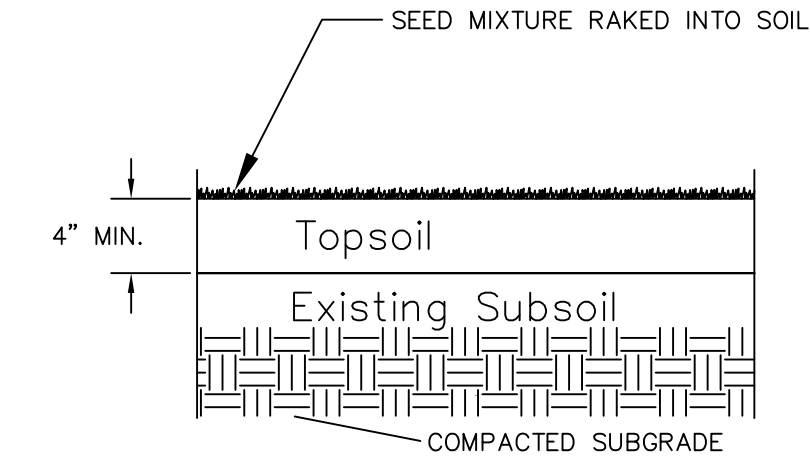
TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED TO A MINIMUM DEPTH OF 4" PERMANENT VEGETATIVE COVER SEEDING PREPARATION APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TESTS SUCH AS THOSE OFFERED BY THE AGRICULTURAL EXPERIMENT STATION TESTING LABORATORY.
FERTILIZER MAY BE APPLIED AT THE RATE OF 300 POUNDS PER ACRE OR 7.5 POUNDS PER 1,000 SQUARE FEET LONG USING 10-10-10 OR EQUIVALENT.
IN ADDITION, 300 POUNDS OF 38-0-0 FERTILIZER PER ACRE OR EQUIVALENT OF SLOW RELEASE NITROGEN MAY BE USED FOR TOPDRESSING. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AS FOLLOWS.
SOIL TEXTURE TONS/AC #/1,000 S. F.
CLAY, CLAY LOAM, 4 180
AND HIGH ORGANIC SOIL 3 135
SANDY LOAM, LOAM, SILT 2 90
LOAM, LOAMY SAND, SAND
WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT.

SEEDING

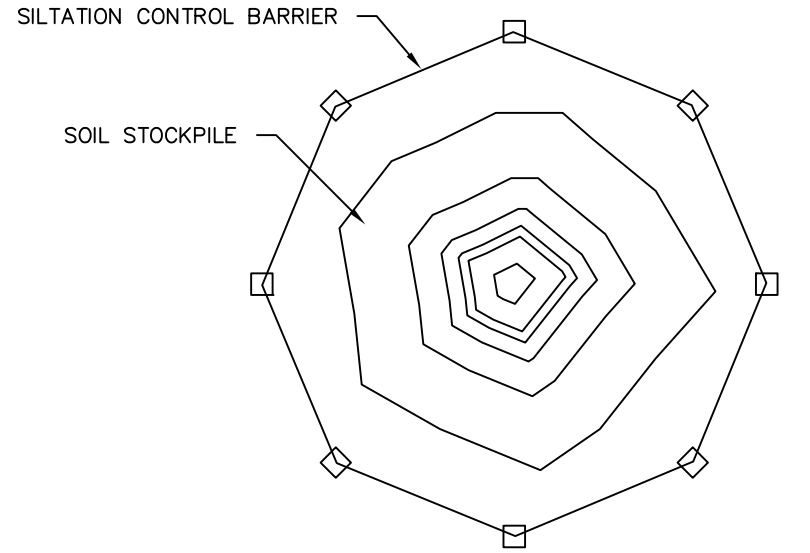
THE SEED MIXTURE SHALL BE COASTAL MEADOW MIX(Canada Wild Rye, (Elymus canadensis),Creeping Red Fescue, (Festuca rubra), Big Blue- stem, (Andropogon gerardii), Little Bluestem, (Schizachyrium scoparium), Indian Grass, (Sorghastrum nutans), Side Oats Grama, (Bouteloua curtipendula), Switch Grass, (Panicum virgatum), Sand Dropseed, (Sporobolus cryptandrus)) at 35#/ac.

SEEDING DATES

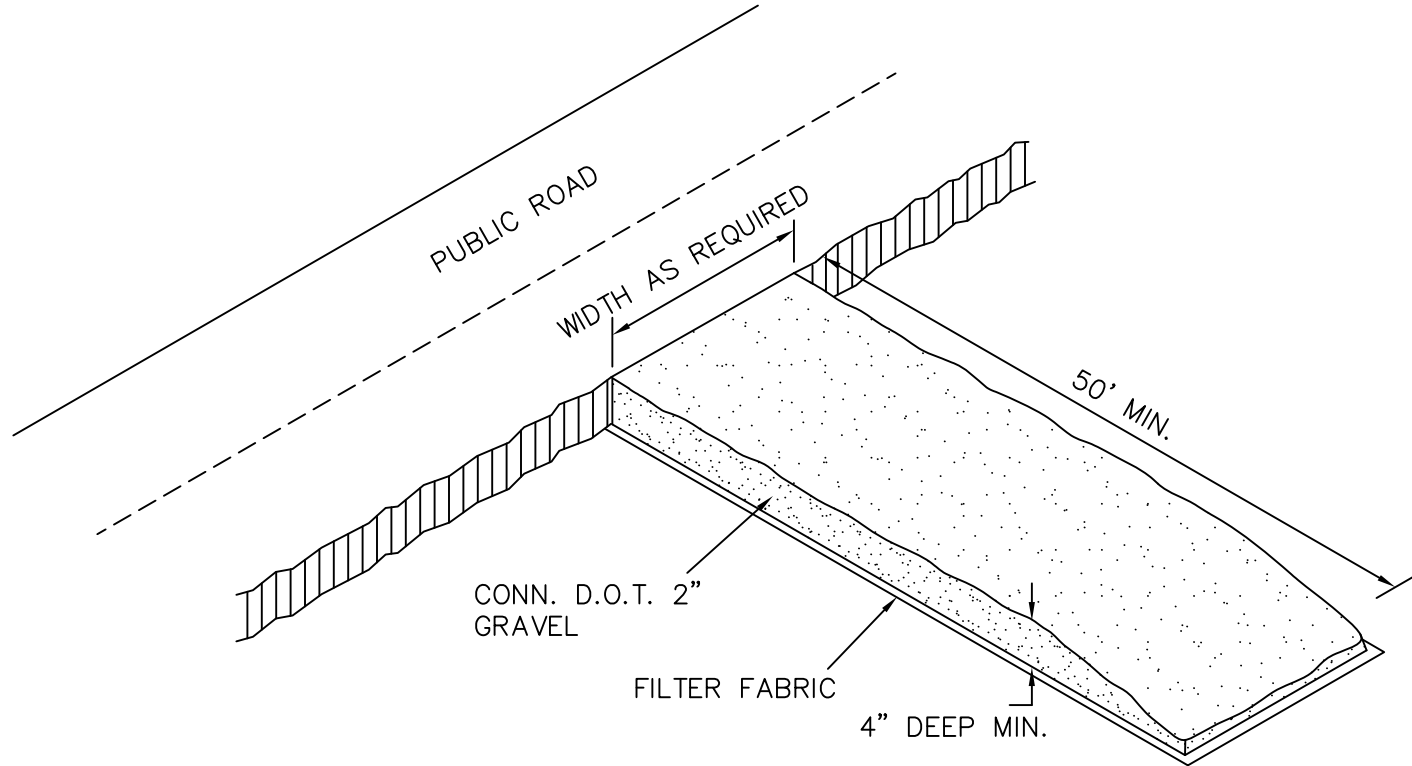
WHERE APPLICABLE SPRING SEEDINGS OF ALL SEED MIXES WITH LEGUMES IS RECOMMENDED, HOWEVER LATE SUMMER SEEDINGS PRIOR TO SEPTEMBER 1 CAN BE MADE. WHEN CROWN VETCH IS SEEDDED IN LATE SUMMER AT LEAST 35 PERCENT OF THE SEED SHOULD BE HARD SEED (UNSCARIFIED). THE RECOMMENDED SEEDING DATES ARE: APRIL 1 THROUGH JUNE 1 AUGUST 15 THROUGH SEPTEMBER 1.
APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER TYPE SEEDER OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER). NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSEEDINGS WHICH ARE MULCHED MAY BE LEFT ON SOIL SURFACE. APPLY MULCH ACCORDING TO TEMPORARY MULCHING MEASURES.
IF SEEDING CANNOT BE DONE WITHIN THE SEEDING DATES, USE THE TEMPORARY MULCHING MEASURES TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT SEEDING SEASON.



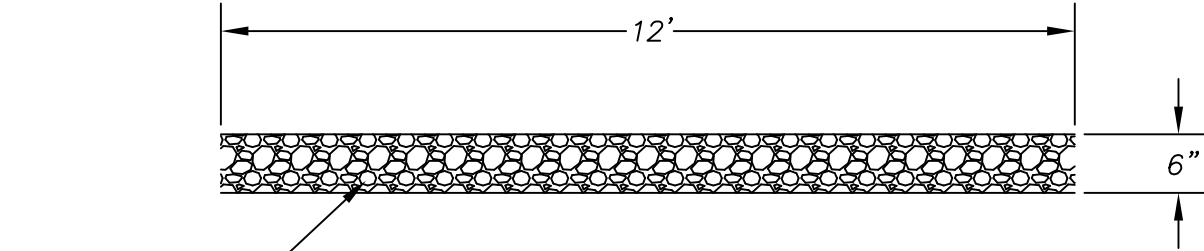
Loam & Seed Detail
Not To Scale



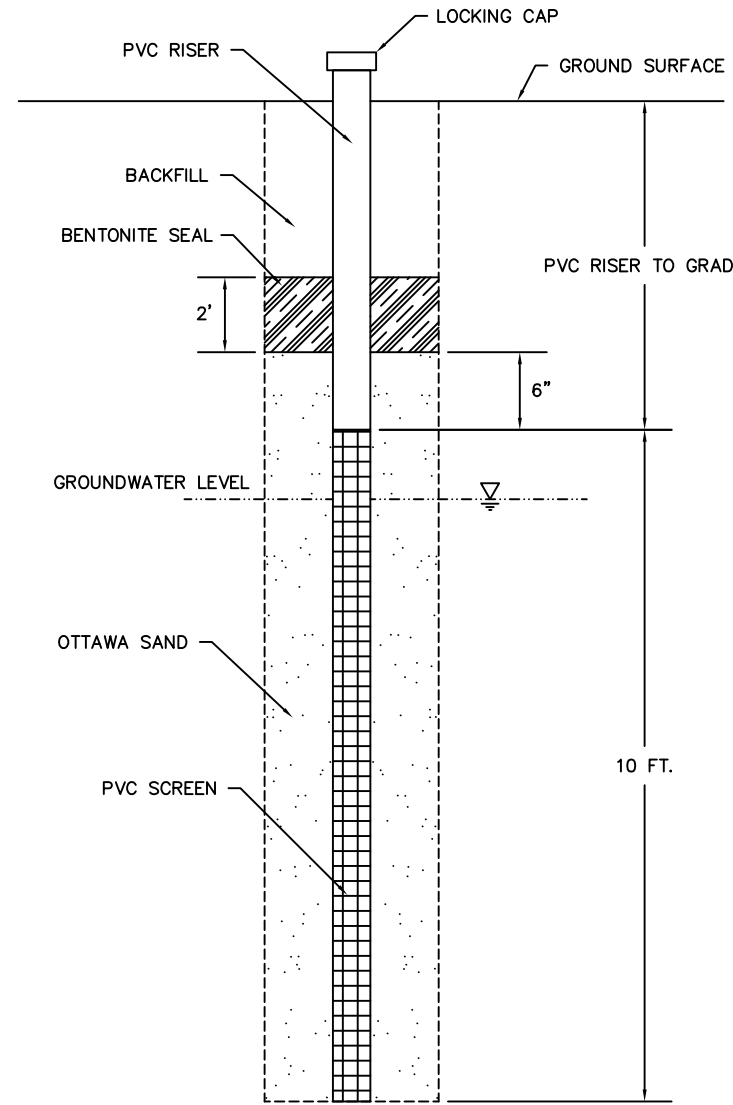
STOCKPILE SILTATION CONTROL
N.T.S.



CONSTRUCTION ENTRANCE
N.T.S.



TRAIL / ACCESS ROAD DETAIL
N.T.S.



MONITORING WELL DETAIL
(NOT TO SCALE)



MUTUAL INDUSTRIES, INC.
707 W. GORGE
PHILADELPHIA, PA 19120
215-927-6000 * 800-523-0888
215-927-3388 FAX
www.mutualindustries.com

MISF 1855 FABRIC

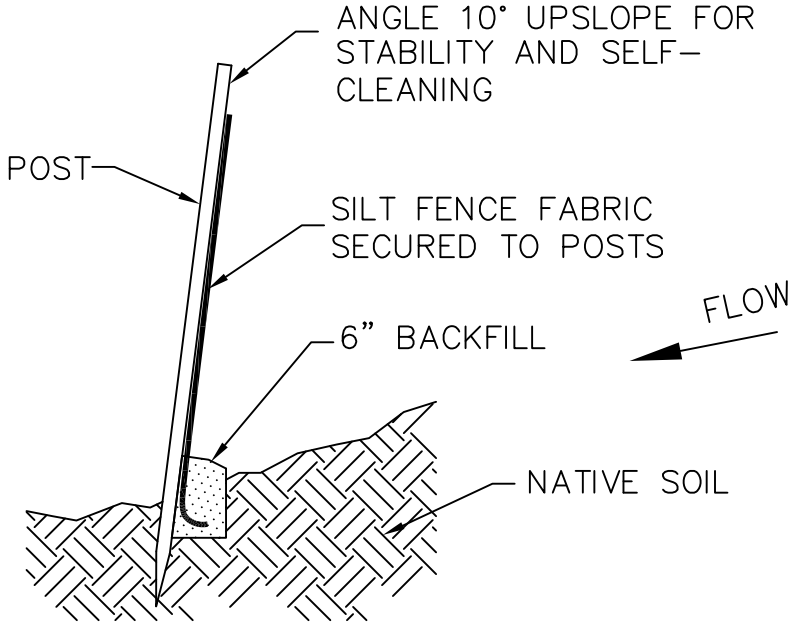
The following are minimum roll values for Mutual MISF 1855. It is a woven polypropylene fabric. It contains stabilizers and inhibitors that make it resistant to deterioration caused by ultraviolet light, heat and soil conditions. Mutual MISF 1855 exceeds most State Departments of Transportation Specifications. Meets AASHTO M286.

Grab Tensile Strength	lbs	ASTM D4632	120
Grab Tensile Elongation	%	ASTM D4632	15
Mullen Burst Strength	lbs	ASTM D3786	347
Puncture Strength	lbs	ASTM D4833	60
Trapezoidal Tear	lbs	ASTM D4533	80
Apparent Opening	U.S. Std Sieve	ASTM D4751	50
Flow Rate/permittivity	gpm/sq. ft.	ASTM D4491	30
UV Resistance after 500hrs	% Strength Retained	ASTM D4355	90
Mass/Unit Area	oz/sq yd	ASTM D5261	2.3

MISF 1855 HAS A TENSION BELT WOVEN INTO THE TOP OF THE WOVEN GEOTEXTILE FOR ADDED SUPPORT STRENGTH.

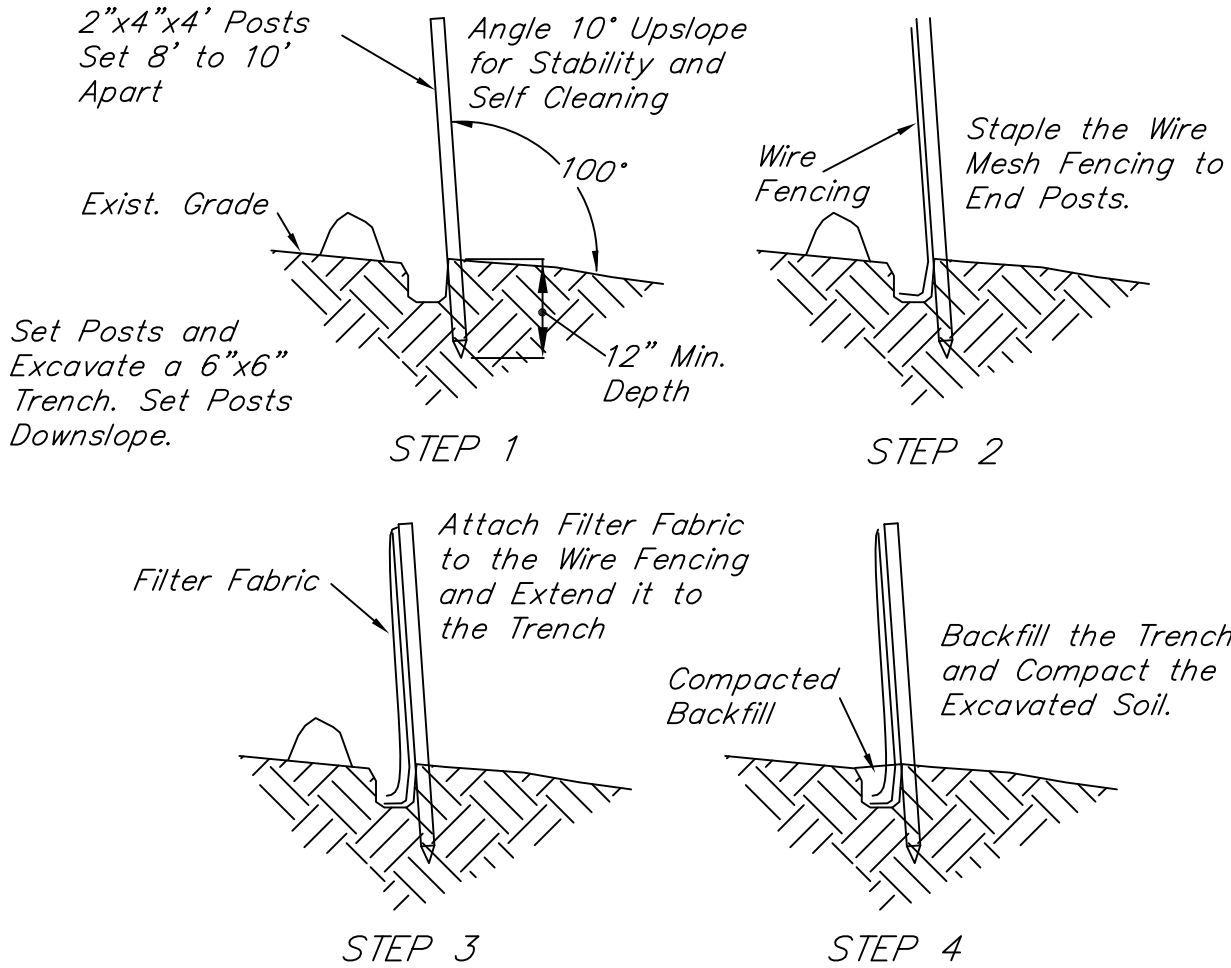
Mutual Industries Inc. hereby certifies that our MISF 1855 fabric meets the above minimum average roll values. The values are a result of testing conducted in on-site laboratories at the time of production. Estimated Functional Longevity is approximately 6 months

Quality Assurance Department



MISF 1855 SILTATION FENCE DETAIL

NOTE: SILTATION FENCE TO BE INSTALLED BETWEEN CONSTRUCTION AREAS, WETLANDS AND WATER COURSES AS APPROVED BY THE ENGINEER.



SILT FENCE INSTALLATION

N.T.S.

Town of Fairfield
Dept. of Public Works



Details & Specifications
900 Richard White Way
Fairfield, CT

DRAWN BY: juls
DATE: June 21, 2017
SCALE: N.T.S.

CHK'D BY: J.M.
PROJECT NO. 3457
Sheet 8 of 8