



## OFFICE OF THE TOWN ADMINISTRATOR

Town of Middleton  
Memorial Hall  
48 South Main Street  
Middleton, MA 01949-2253  
978-777-3617  
[www.townofmiddleton.org](http://www.townofmiddleton.org)

2

February 3, 2017

Mr. Joseph Flynn  
2 Bellevue Avenue  
Middleton, MA 01949

RE: Nuisance/Dangerous Dog Hearing  
Killian, Malamute mix  
2 Bellevue Avenue, Middleton

Dear Mr. Flynn:

This correspondence is a follow up to the nuisance/dangerous dog hearing held by the Middleton Board of Selectmen held on January 31, 2017. At that hearing the Board of Selectmen voted unanimously (5-0) to declare your dog, Killian, a dangerous dog pursuant to Massachusetts General Law Chapter 140, Section 157. This is a serious finding with significant implications for you and Killian.

At the hearing the Board imposed and you committed to abiding by the following conditions:

1. Killian shall be kept inside the home until a kennel is fully constructed. Construction of the kennel shall be to the satisfaction of the Animal Control Officer;
2. Until completion of construction of the kennel whenever he is outside the house Killian shall be leashed and muzzled and fully under the control of you or a handler;
3. A kennel shall be constructed:
  - a. The kennel shall have a concrete base;
  - b. All walls/fencing shall be set in concrete to a depth of not less than 2 feet;
  - c. The kennel shall have a roof;
4. Killian shall be enrolled in a dog day care;
5. Killian shall be evaluated by a competent professional and a training regimen developed and implemented.

The Board of Selectmen will continue the dangerous dog hearing on March 14, 2017. At that time you are expected to provide an update on the construction of the kennel and other conditions described herein.

Failure to adhere to these conditions will result in further action by the Board of Selectmen, up to and including fines and euthanizing Killian.

Please contact Animal Control Officer Reed Wilson if you have any questions and to arrange for inspections of the kennel.

Sincerely,

Andrew J. Sheehan  
Town Administrator

CC: Reed Wilson, Animal Control Officer  
Derek Fullerton, Director of Public Health  
Ilene Twiss, Town Clerk  
Thomas Fallon, Town Counsel



335 Main Street • Reading, MA 01867 • 781-944-2929

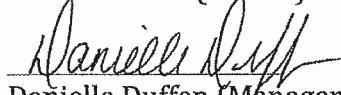
To Whom It May Concern,

Joseph Flynn came to our facility in regards to the Nuisance/Dangerous Dog complaint filed against him and his Malamute Mix Killian. Killian has attended 5 of our K9 Camp Day Programs to assess if he is in fact a dangerous dog. In our professional opinion Killian is not a dangerous dog. He is your typical adolescent male. He displays very independent and domineering behaviors but is easily controlled with the proper tools and guidance and has displayed zero aggression towards any of our staff or dogs.

We have instructed Joseph on the body language to look for, how to properly walk by and/or interact with other dogs, and how to keep him secure as he is an escape artist. We have informed him that a very secure kennel which reinforcements is the best suggestion to make sure he is not to escape the yard again if left unsupervised. Joseph is going to continue his training here at our facility and we have discussed and suggested E-collar remote training to be the next step to continue to improve his behaviors and create a reliably controlled dog on and off his property. Killian is a very nice dog and is continuing to succeed in our programs. If you have any questions or concerns, please feel free to contact one of our head trainers.

Sincerely,

  
Steve Roberts (Owner)

  
Danielle Duffen (Manager)

## Massachusetts General Law Chapter 140

### Section 157: Nuisance or dangerous dogs; orders for remedial action; appeal; violation of order

Section 157. (a) Any person may file a complaint in writing to the hearing authority that a dog owned or kept in the city or town is a nuisance dog or a dangerous dog; provided, however, that no dog shall be deemed dangerous: (i) solely based upon growling or barking or solely growling and barking; (ii) based upon the breed of the dog; or (iii) if the dog was reacting to another animal or to a person and the dog's reaction was not grossly disproportionate to any of the following circumstances:

- (1) the dog was protecting or defending itself, its offspring, another domestic animal or a person from attack or assault;
- (2) the person who was attacked or threatened by the dog was committing a crime upon the person or property of the owner or keeper of the dog;
- (3) the person attacked or threatened by the dog was engaged in teasing, tormenting, battering, assaulting, injuring or otherwise provoking the dog; or
- (4) at the time of the attack or threat, the person or animal that was attacked or threatened by the dog had breached an enclosure or structure in which the dog was kept apart from the public and such person or animal was not authorized by the owner of the premises to be within such enclosure including, but not limited to, a gated, fenced-in area if the gate was closed, whether locked or unlocked; provided, however, that if a person is under the age of 7, it shall be a rebuttable presumption that such person was not committing a crime, provoking the dog or trespassing.

The hearing authority shall investigate or cause the investigation of the complaint, including an examination under oath of the complainant at a public hearing in the municipality to determine whether the dog is a nuisance dog or a dangerous dog. Based on credible evidence and testimony presented at the public hearing, the hearing authority shall: (i) if the dog is complained of as a nuisance dog, either dismiss the complaint or deem the dog a nuisance dog; or (ii) if the dog is complained of as a dangerous dog: (A) dismiss the complaint; (B) deem the dog a nuisance dog; or (C) deem the dog a dangerous dog.

(b) If the hearing authority deems a dog a nuisance dog, the hearing authority may further order that the owner or keeper of the dog take remedial action to ameliorate the cause of the nuisance behavior.

(c) If the hearing authority deems a dog a dangerous dog, the hearing authority shall order 1 or more of the following:

(i) that the dog be humanely restrained; provided, however, that no order shall provide that a dog deemed dangerous be chained, tethered or otherwise tied to an inanimate object including, but not limited to, a tree, post or building;

- (ii) that the dog be confined to the premises of the keeper of the dog; provided, however, that "confined" shall mean securely confined indoors or confined outdoors in a securely enclosed and locked pen or dog run area upon the premises of the owner or keeper; provided further, that such pen or dog run shall have a secure roof and, if such enclosure has no floor secured to the sides thereof, the sides shall be embedded into the ground for not less than 2 feet; and provided further, that within the confines of such pen or dog run, a dog house or proper shelter from the elements shall be provided to protect the dog;
- (iii) that when removed from the premises of the owner or the premises of the person keeping the dog, the dog shall be securely and humanely muzzled and restrained with a chain or other tethering device having a minimum tensile strength of 300 pounds and not exceeding 3 feet in length;
- (iv) that the owner or keeper of the dog provide proof of insurance in an amount not less than \$100,000 insuring the owner or keeper against any claim, loss, damage or injury to persons, domestic animals or property resulting from the acts, whether intentional or unintentional, of the dog or proof that reasonable efforts were made to obtain such insurance if a policy has not been issued; provided, however, that if a policy of insurance has been issued, the owner or keeper shall produce such policy upon request of the hearing authority or a justice of the district court; and provided further, that if a policy has not been issued the owner or keeper shall produce proof of efforts to obtain such insurance;
- (v) that the owner or keeper of the dog provide to the licensing authority or animal control officer or other entity identified in the order, information by which a dog may be identified, throughout its lifetime including, but not limited to, photographs, videos, veterinary examination, tattooing or microchip implantations or a combination of any such methods of identification;
- (vi) that unless an owner or keeper of the dog provides evidence that a veterinarian is of the opinion the dog is unfit for alterations because of a medical condition, the owner or keeper of the dog shall cause the dog to be altered so that the dog shall not be reproductively intact; or
- (vii) that the dog be humanely euthanized.

No order shall be issued directing that a dog deemed dangerous shall be removed from the town or city in which the owner of the dog resides. No city or town shall regulate dogs in a manner that is specific to breed.

(d) Within 10 days after an order issued under subsections (a) to (c), inclusive, the owner or keeper of a dog may bring a petition in the district court within the judicial district in which the order relative to the dog was issued or where the dog is owned or kept, addressed to the justice of the court, praying that the order be reviewed by the court or a magistrate of the court. After notice to all parties, the magistrate shall, under section 62C of chapter 221, review the order of the hearing authority, hear the witnesses and affirm the order unless it shall appear that it was made without proper cause or in bad faith, in which case the order shall be reversed. A party shall have the right to request a de novo hearing on the complaint before a justice of the court.

(e)(1) Pending an appeal by an owner or keeper under subsection (d), a hearing authority may file a petition in the district court to request an order of impoundment at a facility the municipality uses to shelter animals for a dog complained of as being a dangerous dog. A municipality shall not incur liability for failure to request impoundment of a dog under this subsection.

(2) A justice of a district court, upon probable cause to believe that a dog is a dangerous dog or that a dog is being kept in violation of this section or in violation of an order issued under this section by a hearing authority or a court, may issue an order: (i) of restraint; (ii) of confinement of the dog as considered necessary for the safety of other animals and the public; provided, however, that if an order of confinement is issued, the person to whom the order is issued shall confine the dog in accordance with clause (ii) of subsection (c); or (iii) of impoundment in a humane place of detention that the municipality uses to shelter animals; or (iv) any other action as the court deems necessary to protect other animals and the public from the dog.

(f) A justice of the district court shall hear, *de novo*, an appeal filed under subsection (d). Based upon credible evidence and testimony presented at trial, the court shall, whether the dog was initially complained of as a nuisance dog or as a dangerous dog: (i) dismiss the complaint; (ii) deem the dog a nuisance dog; or (iii) deem the dog a dangerous dog. The decision of the court shall be final and conclusive upon the parties.

(g) If a court affirms an order of euthanasia, the owner or keeper of the dog shall reimburse the city or town for all reasonable costs incurred for the housing and care of such dog during its impoundment and throughout the appeals process, if any. Unpaid costs shall be recovered by the municipality in which the owner or keeper of the dog resides on behalf of the hearing authority by any of the following methods: (i) a lien on any property owned by the owner or keeper of the dog; (ii) an additional, earmarked charge to appear on the vehicle excise of the owner or keeper of the dog; or (iii) a direct bill sent to the owner or keeper of the dog.

All funds recovered by a municipality under this subsection shall be transferred to the organization or entity charged with the responsibility of handling dog complaints and impoundment. If the organization or entity falls under the management or direction of the municipality, costs recovered shall be distributed at the discretion of the municipality.

If the court overturns an order of euthanasia, the city or town shall pay all reasonable costs incurred for the housing and care of the dog during any period of impoundment.

(h) If an owner or keeper of a dog is found in violation of an order issued under this section, the dog shall be subject to seizure and impoundment by a law enforcement or animal control officer. If the keeper of the dog is in violation, all reasonable effort shall be made by the seizing authority to notify the owner of the dog of such seizure. Upon receipt of such notice, the owner may file a petition with the hearing authority, within 7 days, for the return of the dog to the owner. The owner or keeper shall be ordered to immediately surrender to the licensing authority the license and tags in the person's possession, if any, and the owner or keeper shall be prohibited from licensing a dog within the commonwealth for 5 years. A hearing authority that determines that a dog is dangerous or a nuisance or that a dog owner or keeper has

violated an order issued under this section shall report such violations to the issuing licensing authority within 30 days.

(i) Orders issued by a hearing authority shall be valid throughout the commonwealth unless overturned under subsection (d) or (f).

TOWN OF MIDDLETON, MASSACHUSETTS  
CONTRACT FOR  
CONSTRUCTION OF NATSUE WAY RECREATIONAL FACILITIES

INVITATION TO BID

Bids for construction of the Natsue Way Recreational Facilities will be received by the Town of Middleton, Massachusetts (Owner) at Memorial Hall, 48 South Main Street, Middleton, Massachusetts 01949 until 2:00 PM on April 25, 2017 at which time and place bids will be publicly opened and read aloud.

The work of this Contract includes furnishing all labor, materials, equipment, and incidentals required to complete construction of recreational facilities over the Town's capped landfill, an adjacent uncapped landfill and appurtenant work. The work includes installation of recreational fields and appurtenances, basketball and tennis courts, parking and paved areas, playgrounds and exercise areas, fencing and pathways.

Contract Documents prepared by Langdon Environmental LLC (Engineer) are available for examination at Memorial Hall 48 South Main Street, Middleton, Massachusetts in the Town Administrator's office during normal business hours (Monday through Thursday, 9:00 am to 4:00 pm and Friday 9:00 am to 1:00 pm, closed on holidays). Bidders requesting a paper copy of the Contract Documents can pick them up at the same address and must provide a non-refundable check made out to the Town of Middleton for \$100. Bidders requesting Contract Documents by mail shall include an additional non-refundable check payable to the Town of Middleton in the amount of \$30.00 per set to cover the costs of handling and mailing.

Each Bid shall be submitted in accordance with the Instructions to Bidders and shall be accompanied by a Bid Security in the form of a certified check or bid bond. The amount of the bid deposit shall be in an amount of 5 percent of the Bidder's maximum total bid price, payable to the Town of Middleton, Massachusetts.

A Non-Mandatory Pre-Bid Conference and Site Visit will be held at the uncapped landfill site off Natsue Way in Middleton, Massachusetts at 10:00 A.M. on March 30, 2017.

Bidders may not withdraw their Bids until July 15, 2017. The Successful Bidder must furnish a 100 percent Construction Performance Bond and a 100 percent Construction Payment Bond with a surety company acceptable to the Owner.

Complete instructions for filing Bids are included in the Instructions to Bidders.

Wage rates for this Project are subject to the minimum wage rates as per M.G.L., Chapter 149, Section 26 to 27H inclusive.

The bidding and award of this Contract will be under the provisions of M.G.L. Chapter 30, Section 39M.

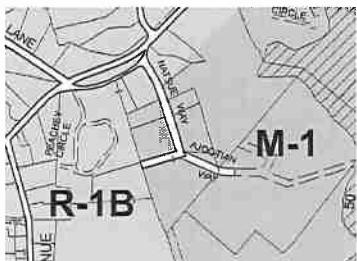
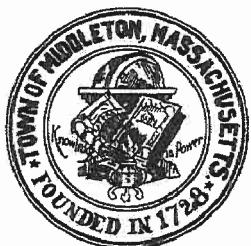
Selection of the contractor will be based upon bidder qualifications, including evidence of past performance in similar projects, and bid price. The contact will be awarded to the bidder deemed by the awarding authority to be the lowest responsible and eligible bidder.

The Owner reserves the right to waive any informality in or to reject any or all Bids if deemed to be in its best interest.

TOWN OF MIDDLETON, MASSACHUSETTS

# **NATSUE WAY RECREATIONAL COMPLEX**

## **LOWER AREA DEVELOPMENT PLANS**



ZONING MAP  
NTS  
ZONES:  
R-1B RESIDENTIAL (40,000')  
M-1 LIGHT INDUSTRY



**MARCH 2017**

### LIST OF DRAWINGS

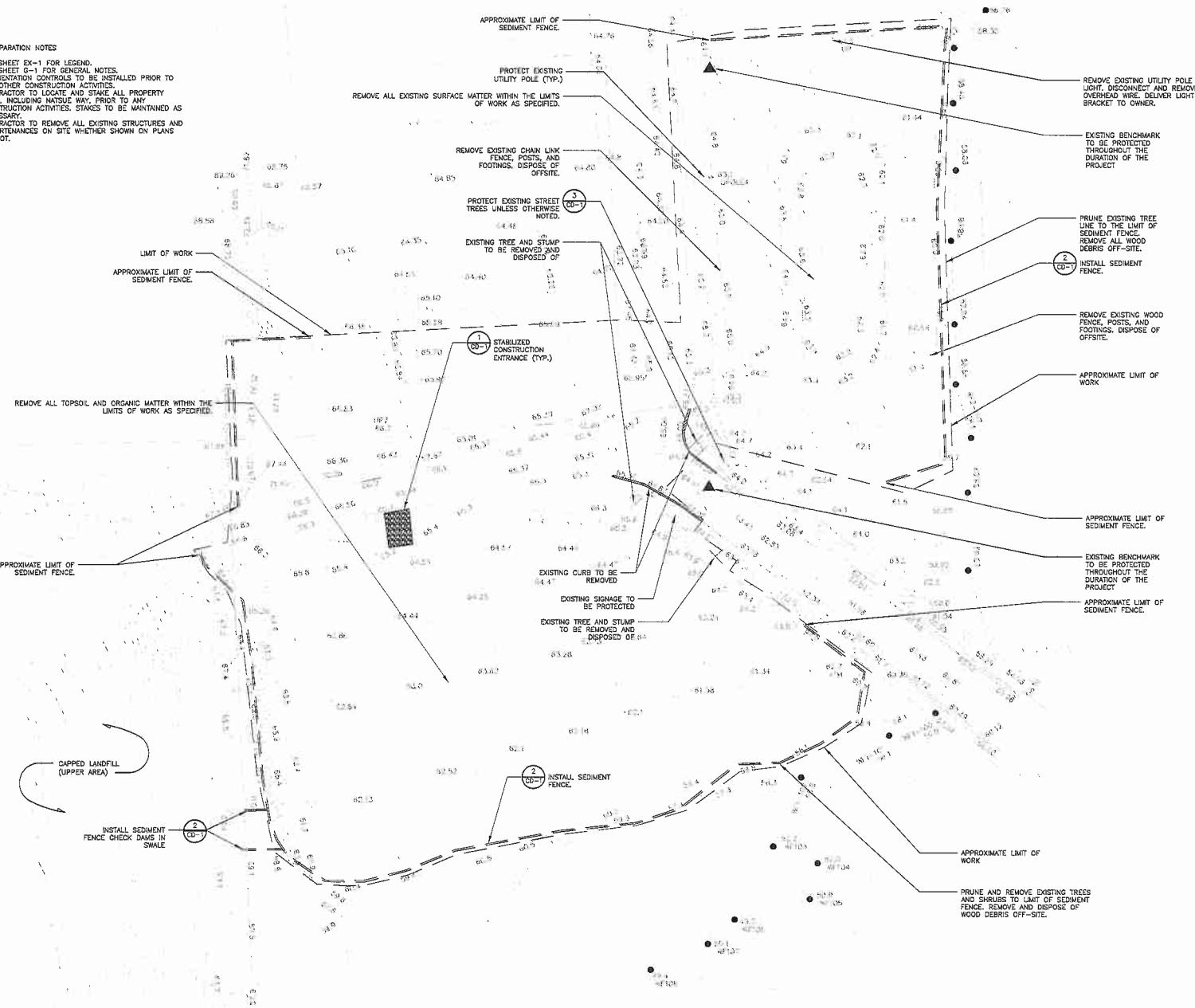
C-0	COVER PAGE
G-1	GENERAL NOTES
EX-1	EXISTING CONDITIONS PLAN
C-1	SITE PREPARATION/DEMOLITION PLAN
C-2	LAYOUT PLAN
C-3	GRADING PLAN
C-4	MATERIALS PLAN
L-1	LANDSCAPE PLAN
CD-1	SITE DETAILS I
CD-2	SITE DETAILS II
CD-3	SITE DETAILS III
CD-4	SITE DETAILS IV
CD-5	SITE DETAILS V
CD-6	SITE DETAILS VI





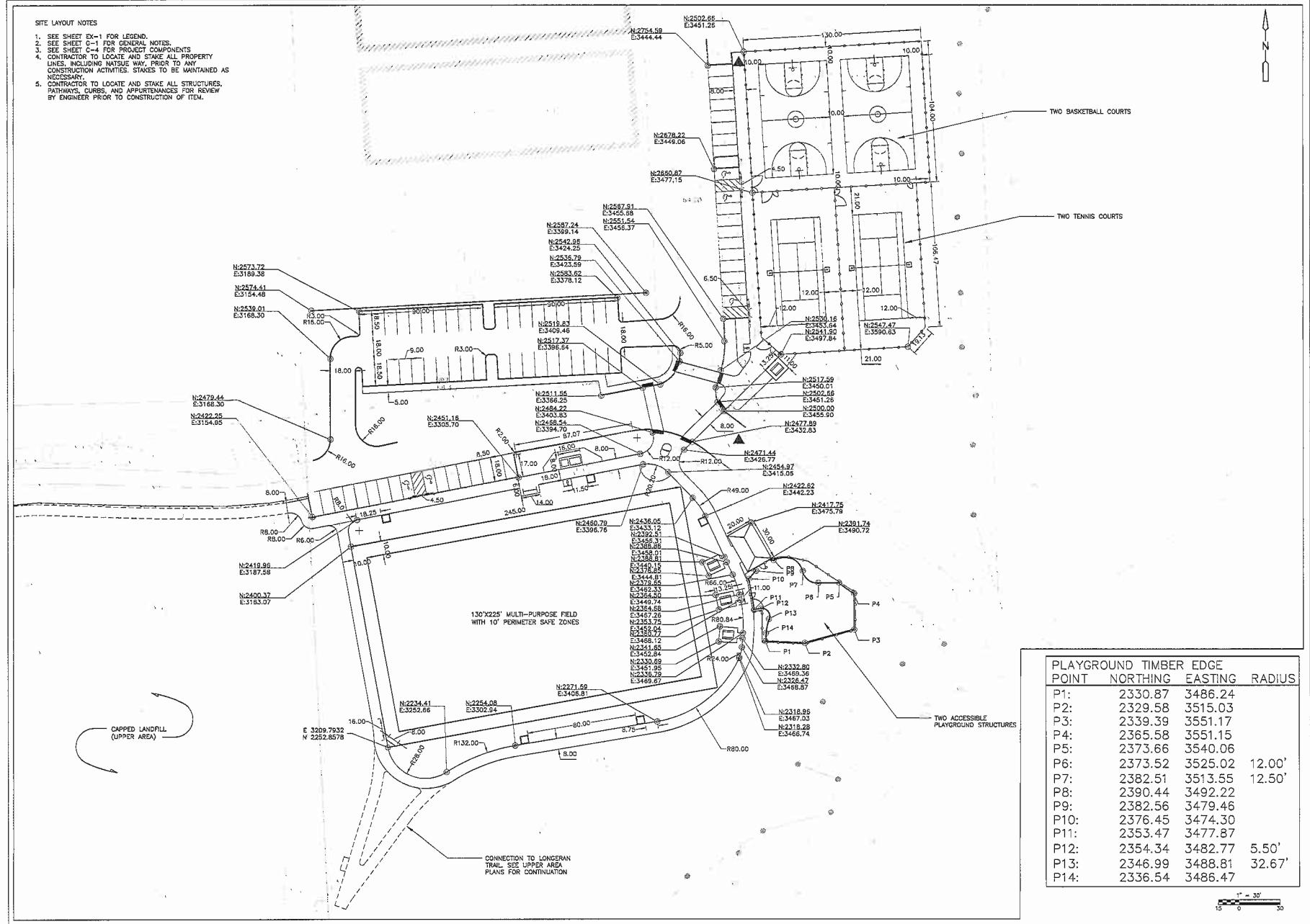
#### SITE PREPARATION NOTES

1. SEE SHEET EX-1 FOR LEGEND.
2. SEE SHEET G-1 FOR GENERAL NOTES.
3. SEDIMENTATION CONTROLS TO BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITIES.
4. CONTRACTOR TO LOCATE AND STAKE ALL PROPERTY LINES, INCLUDING NATIVE WAY, PRIOR TO ANY CONSTRUCTION ACTIVITIES. STAKES TO BE MAINTAINED AS NECESSARY.
5. CONTRACTOR TO REMOVE ALL EXISTING STRUCTURES AND APPURTENANCES ON SITE WHETHER SHOWN ON PLANS OR NOT.



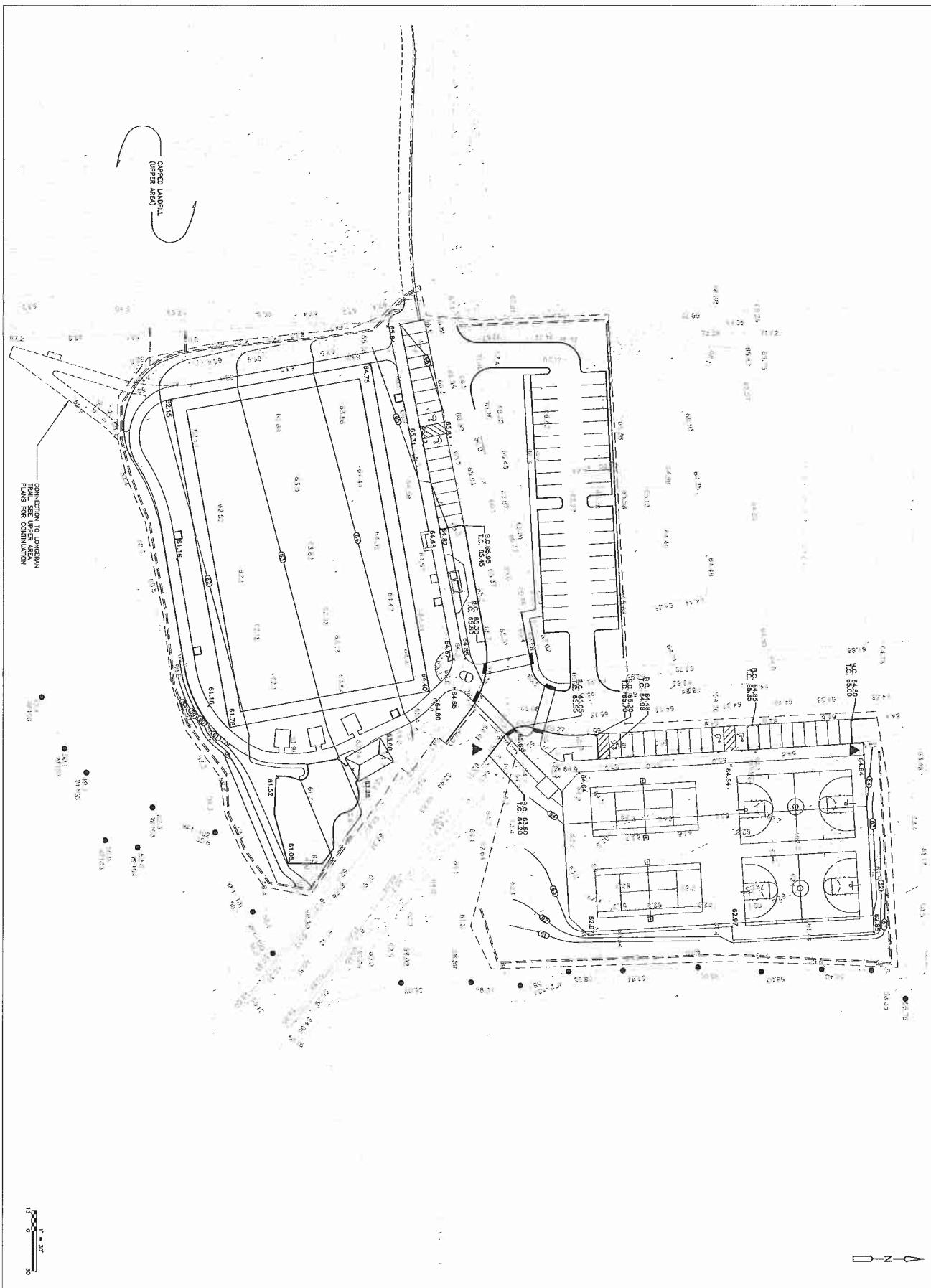
#### SITE LAYOUT NOTES

1. SEE SHEET EX-1 FOR LEGEND.
2. SEE SHEET G-1 FOR GENERAL NOTES.
3. SEE SHEET G-2 FOR SELECTED COMPONENTS
4. CONTRACTOR TO LOCATE AND STAKE ALL PROPERTY LINES, INCLUDING NATSUE WAY, PRIOR TO ANY CONSTRUCTION ACTIVITIES. STAKES TO BE MAINTAINED AS NECESSARY.
5. CONTRACTOR TO LOCATE AND STAKE ALL STRUCTURES, PATHWAYS, CURBS, AND APPURTENANCES FOR REVIEW BY ENGINEER PRIOR TO CONSTRUCTION OF ITEM.

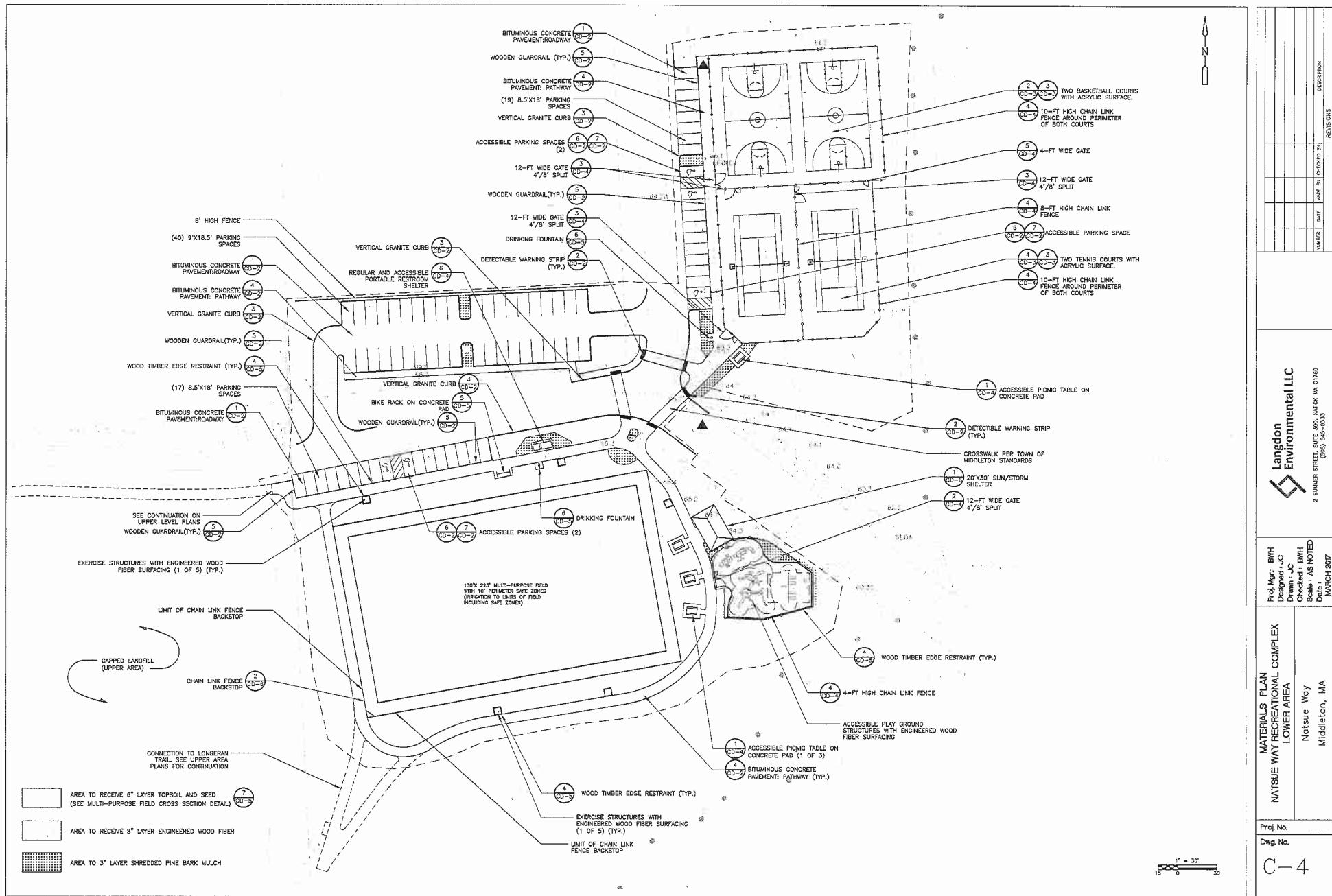


POINT	NORTHING	EASTING	RADIUS
P1:	2330.87	3486.24	
P2:	2329.58	3515.03	
P3:	2339.39	3551.17	
P4:	2365.58	3551.15	
P5:	2373.66	3540.06	
P6:	2373.52	3525.02	12.00'
P7:	2382.51	3513.55	12.50'
P8:	2390.44	3492.22	
P9:	2382.56	3479.46	
P10:	2376.45	3474.30	
P11:	2353.47	3477.87	
P12:	2354.34	3482.77	5.50'
P13:	2346.99	3488.81	32.67'
P14:	2336.54	3486.47	

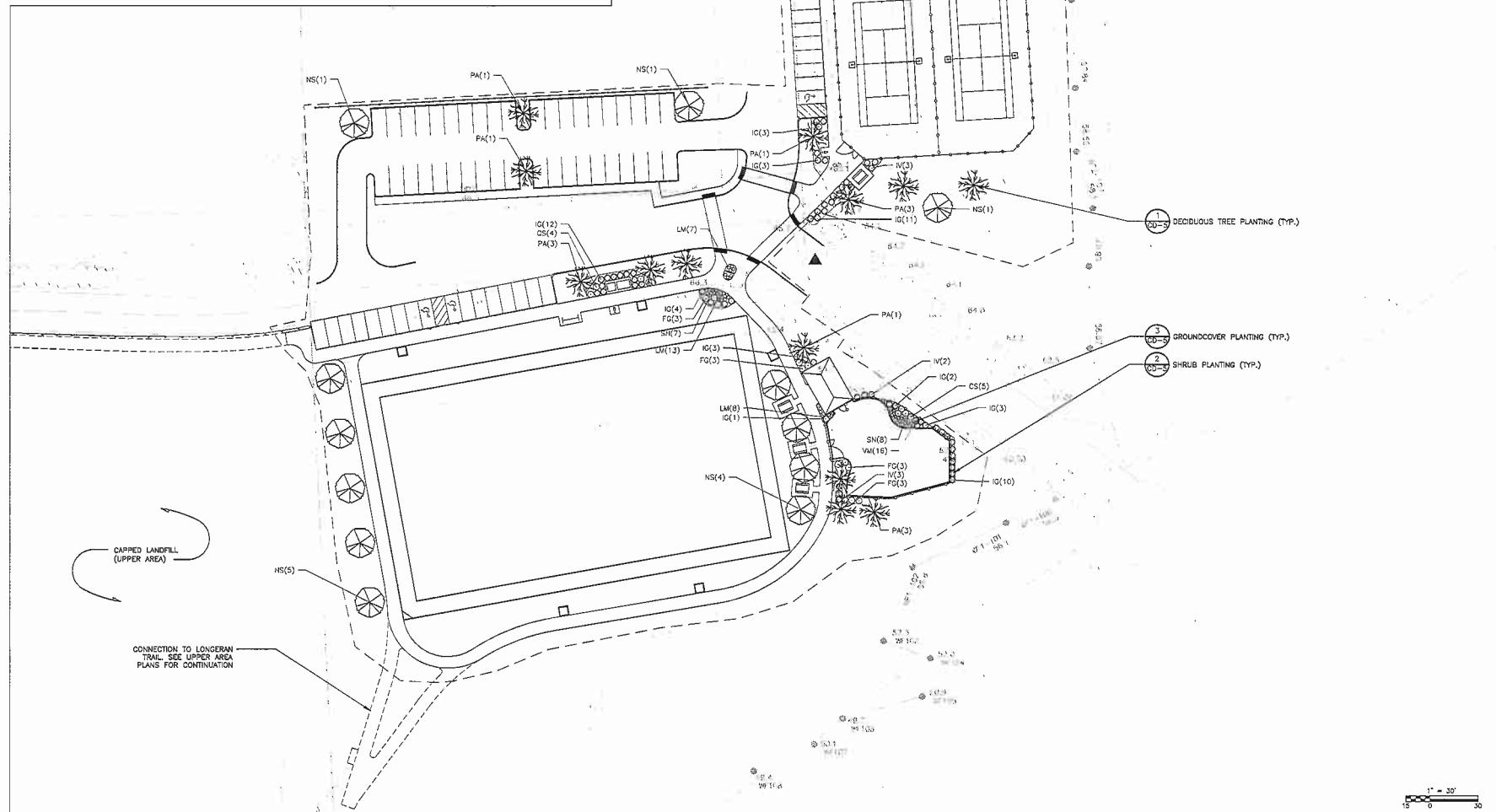
C-2



Proj. No.	GRADING PLAN NATSUE WAY RECREATIONAL COMPLEX LOWER AREA	Proj. Mgr.: BWH Designed: JC Drawn: JC Checked: BWH Scale: AS NOTED Date: MARCH 2017	Langdon Environmental LLC 2 SUMMER STREET, SUITE 300, Natick MA 01760 (508) 545-0333											
C-3				<table border="1"> <thead> <tr> <th>NUMBER</th> <th>DATE</th> <th>MADE BY</th> <th>CHECKED BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td></td><td></td><td></td><td></td><td>REVISIONS</td></tr> </tbody> </table>	NUMBER	DATE	MADE BY	CHECKED BY	DESCRIPTION					REVISIONS
NUMBER	DATE	MADE BY	CHECKED BY	DESCRIPTION										
				REVISIONS										



SYM	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
<b>TREES</b>						
NS	12	NYSSA SYLVATICA	BLACK TUPELO	2-2.5" CAL	BB	
PA	12	PLATANUS X ACERIFOLIA "BLUTBLOOD"	LONDON PLANETREE	3-3.5" CAL	BB	
<b>SHRUBS</b>						
CS	19	CORNUS SERICEA	RED TWIG DOODWOOD	#5 POT		
FG	12	FOTHERGILLA GARDENII	FOTHERGILLA	#5 POT		
IG	52	ILEX GLABRA 'DENSIFLORA'	INKBERRY	#15 POT		
IV	8	ILEX VERTICILLATA	COMMON WINTERBERRY	#5 POT		
<b>PERENNIALS AND GROUND COVERS</b>						
SN	15	SAVIA NEGOROSA 'MARCUS'	MARCUS SAGE	#2 POT		
LM	58	LUINOPA MUSCARI "BIG BLUE"	LILY TURF	#1 POT		
VM	16	VINCA MINOR	PERIWINKLE	#1 POT		
PA	1			#2 POT		

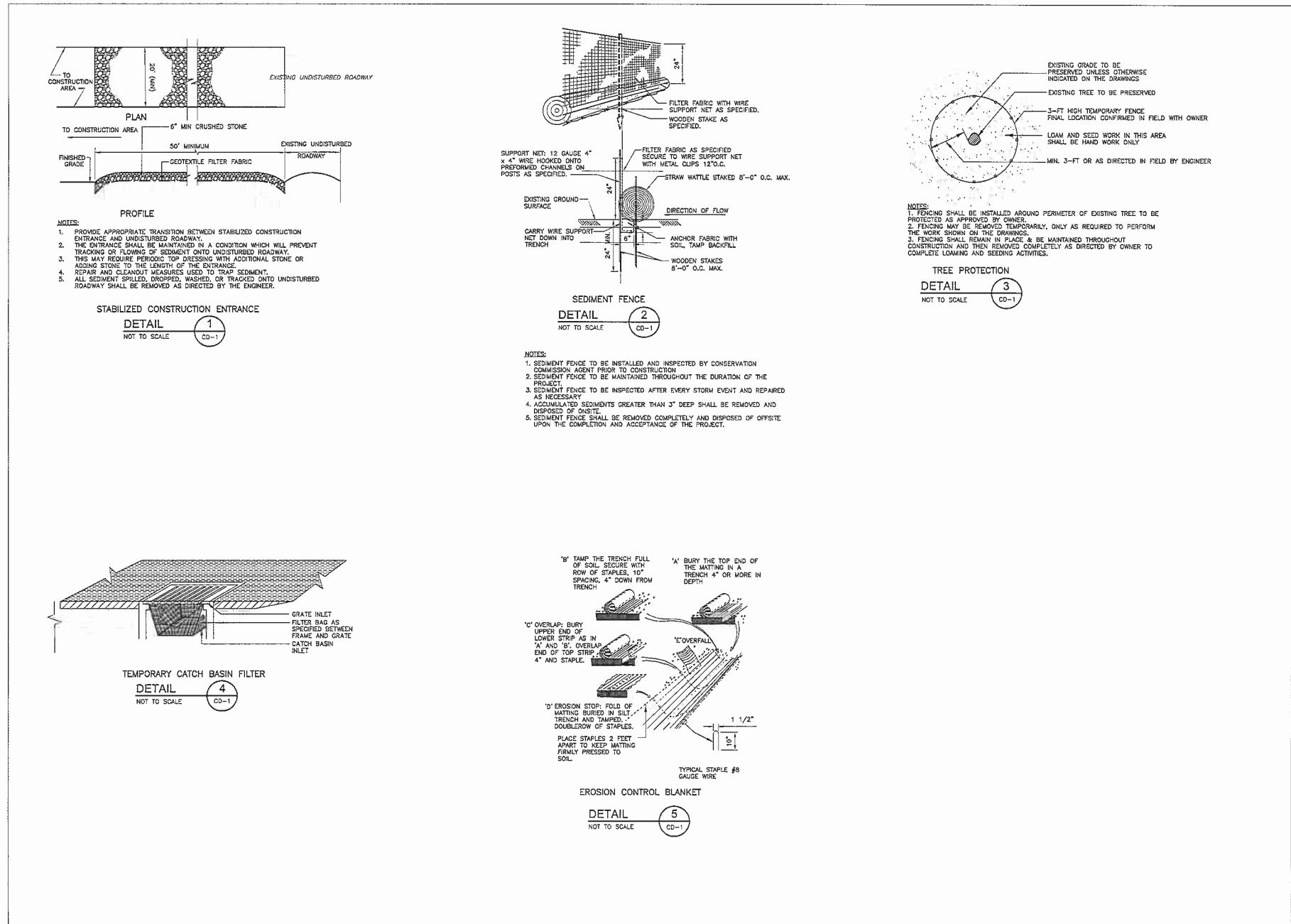


Proj. No.	NATSUE WAY RECREATIONAL COMPLEX	
Dwg. No.	LOWER AREA	
Not sue Way		
Middleton, MA		
Proj. No.	BWH	
Dwg. No.	Designed: JC	
Drawn: JC		
Checked: BWH		
Scale: AS NOTED		
Date: March 2007		
2 SUMMER STREET, SUITE 300, WICKER, VA 20190		
(540) 545-0333		
REVISIONS		
REV. DATE BY		
INITIALS		

Langdon Environmental LLC

2 SUMMER STREET, SUITE 300, WICKER, VA 20190  
(540) 545-0333

L-1



#### NOTE

1. ROLL & TAMP ALL EDGES OF BIT. CONC. PAVT. WHERE ABUTTING LAWNS AND OTHER SURFACES TO FORM NEAT, UNIFORM LINES. PROVIDE JOINT SEALS WHERE NECESSARY. PAVEMENT EDGES EXISTING PAVEMENT.

3" TYP. FINISH GRADE

1 1/2" LAYER TOP COURSE  
1 1/2" LAYER BINDER COURSE, DENSE MIX

2 1/2" LAYER BASE COURSE

4" LAYER DENSE GRADED CRUSHED STONE

NOTES

Pavement edges should be sealed

## BITUMINOUS CONCRETE PAVEMENT: ROADWAY/PARKING SPACES

DETAIL 1  
SCALE: NTS CD-2

## NOTES

1. ROLL & TAMP ALL EDGES OF BIT. CONC. PAVT. WHERE ABUTTING LAWNS AND OTHER NON-CONCRETE SURFACES, FORM NEAT, UNIFORM LINES. PROVIDE JOINT SEALANT WHERE PAVEMENT ABUTS EXISTING PAVEMENT.

3"

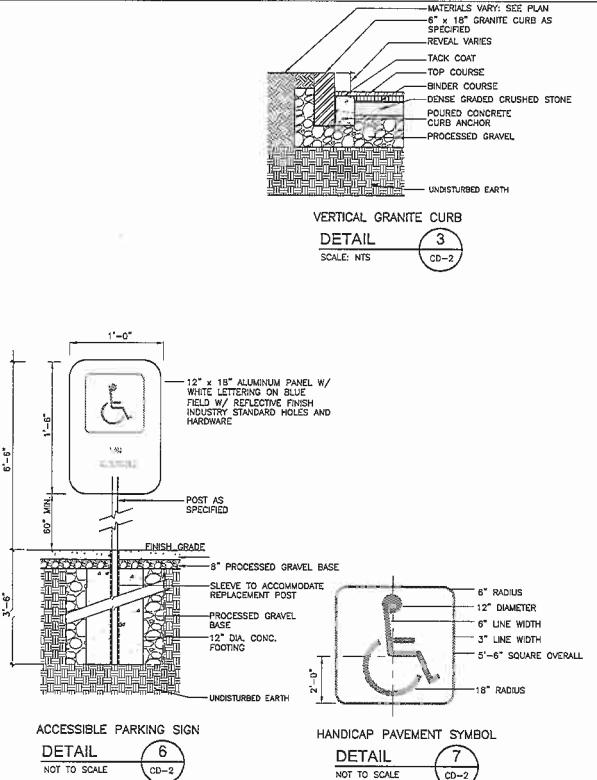
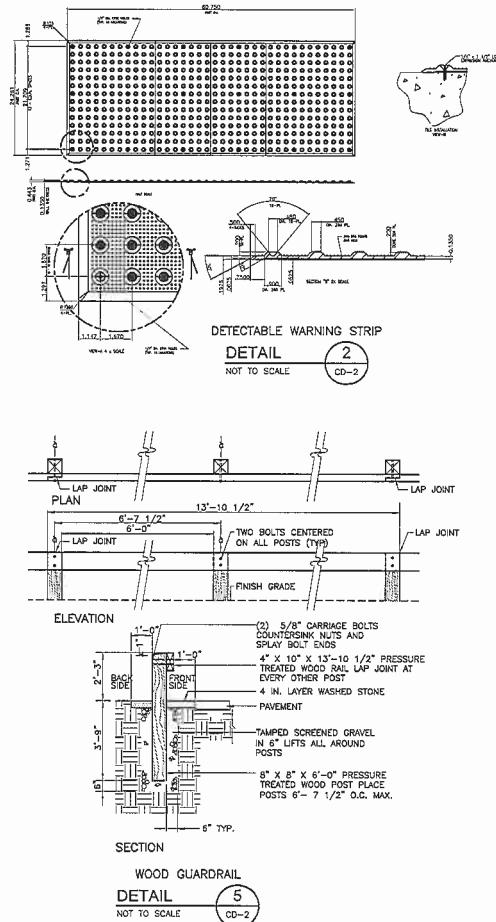
FINISH GRADE

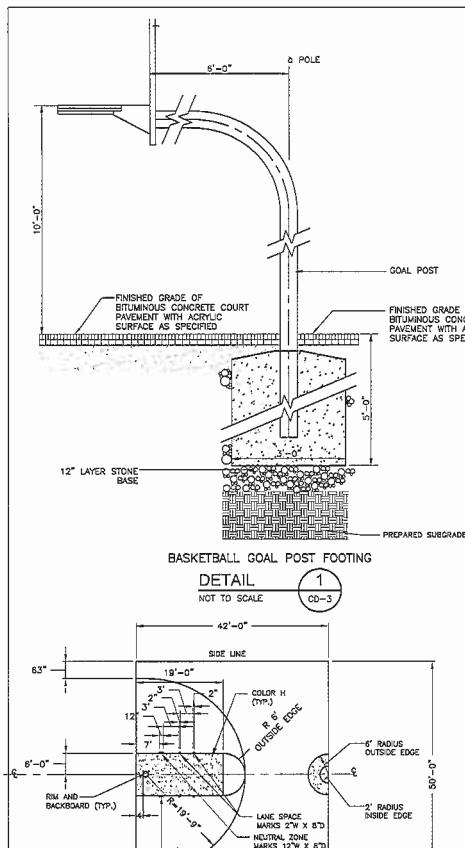
1 1/4" LAYER TOP COURSE  
3/4" LAYER BINDER COURSE  
4" LAYER DENSE GRADED CRUSHED STONE

## BITUMINOUS CONCRETE PAVEMENT: PATHWAY

**DETAIL** 4  
SCALE: NTS CD-2

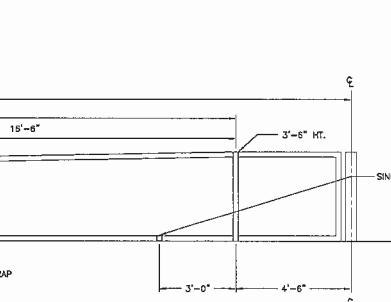
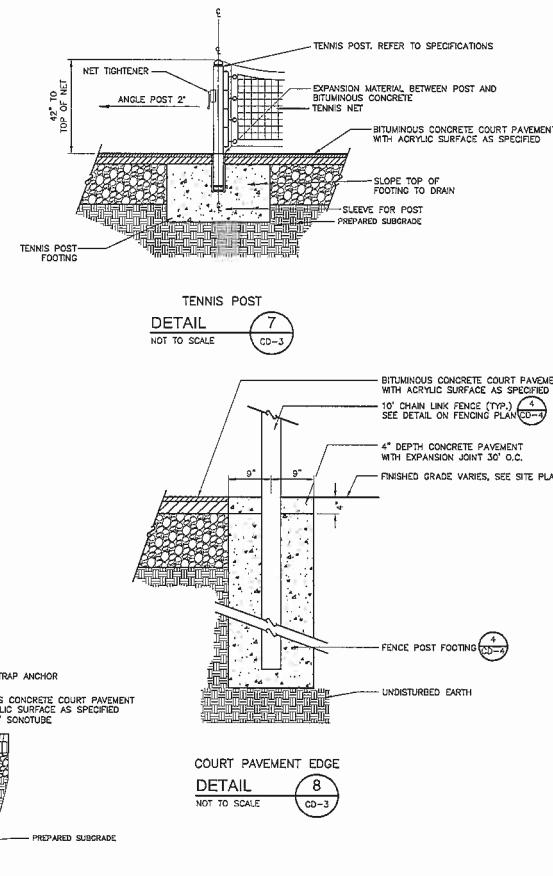
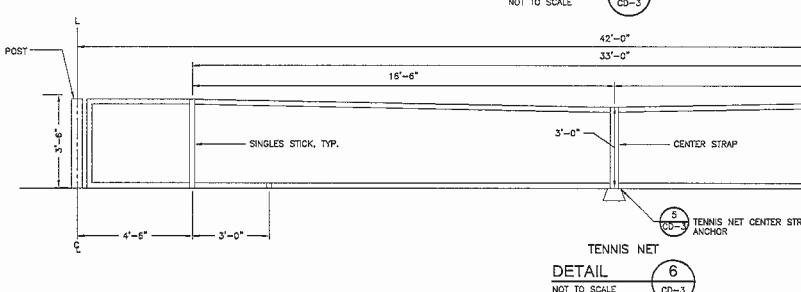
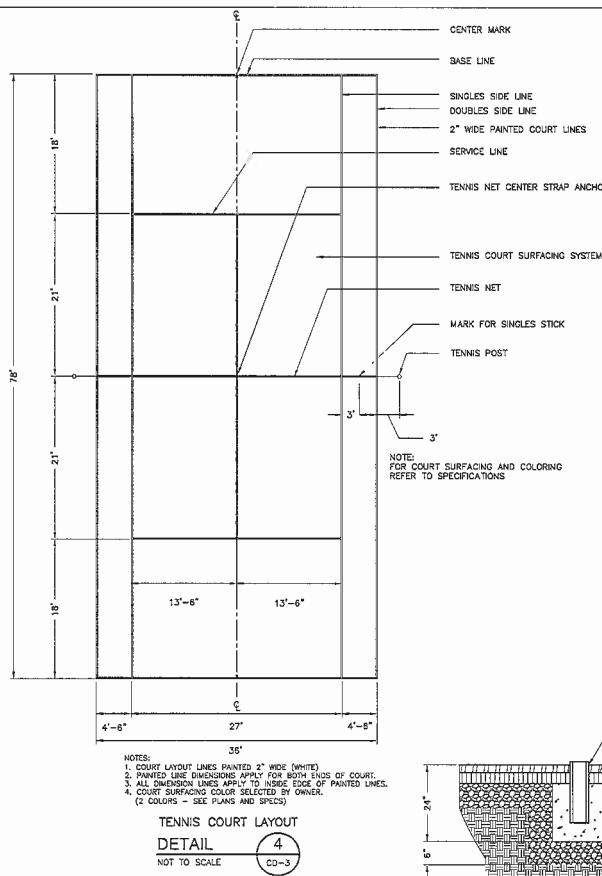
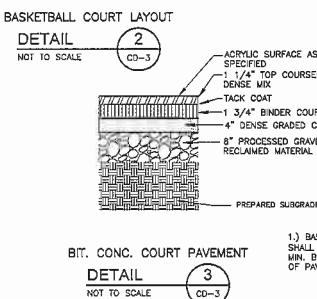
PAVEMENT MATCH  
DETAIL 8  
SCALE: 1/8 IN.

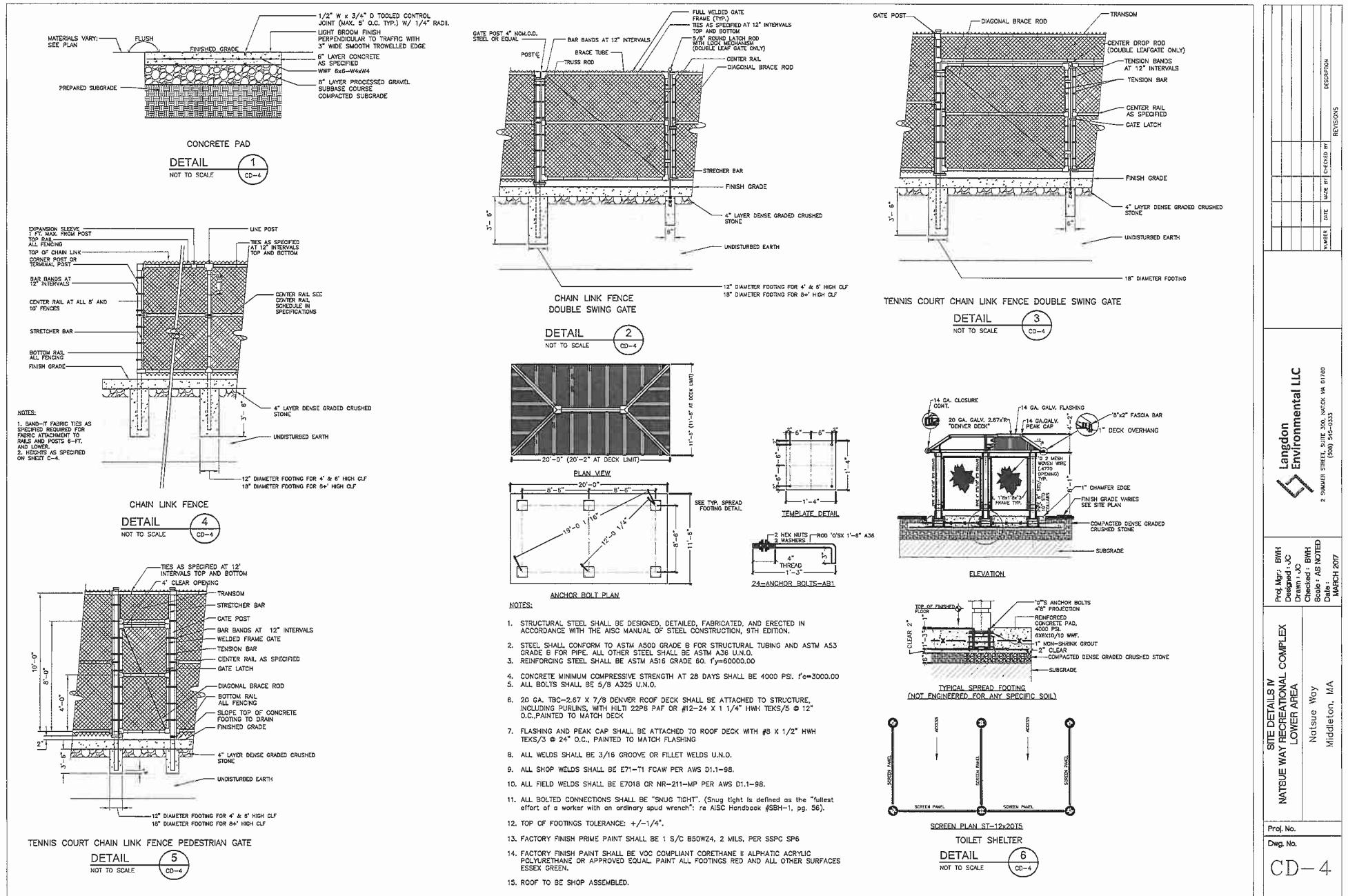


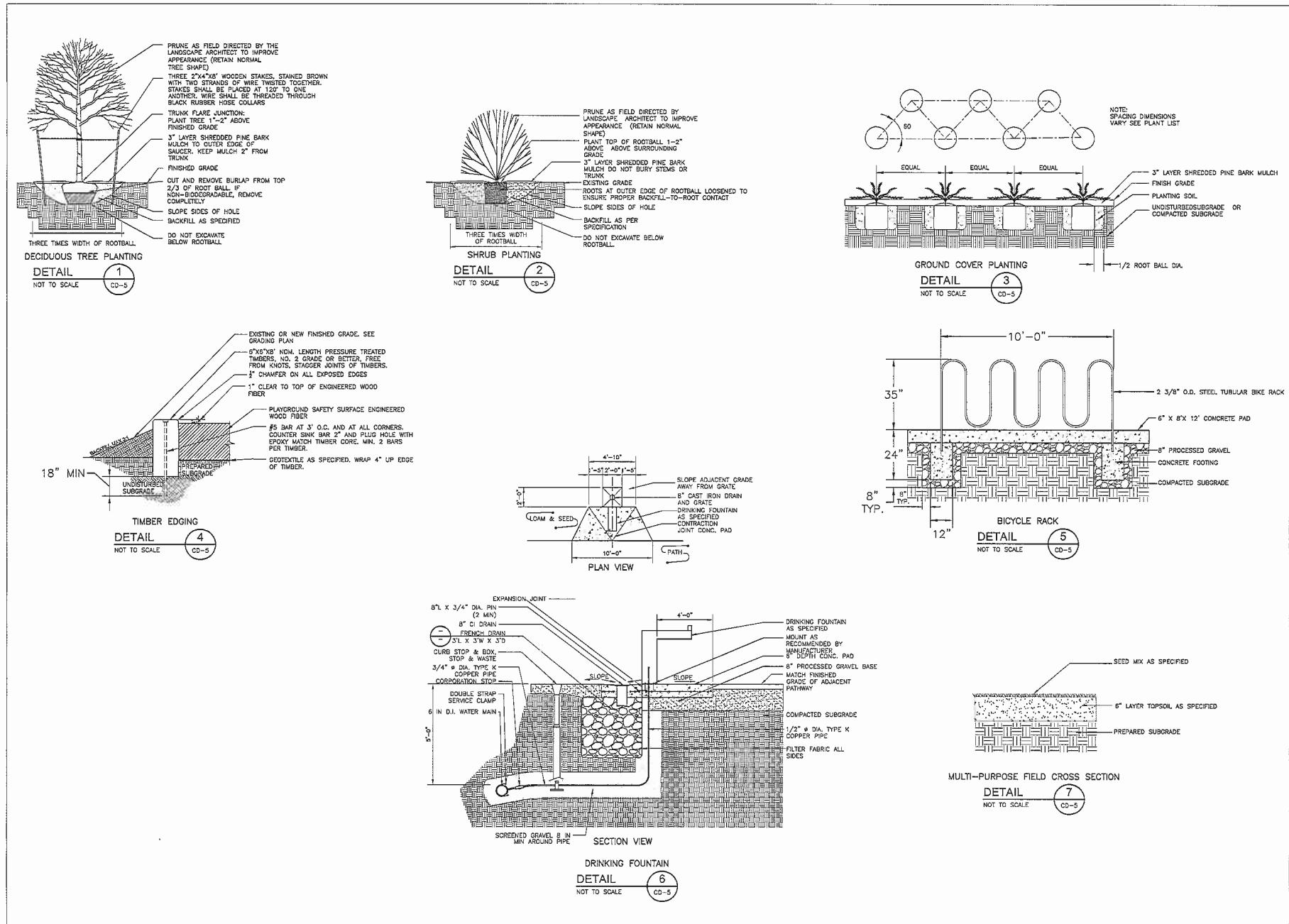


NOTES:

1. COURT LAYOUT LINES PAINTED 2" WIDE (WHITE)
2. PAINTED LINE DIMENSIONS APPLY FOR BOTH ENDS OF COURT.
3. ALL DIMENSION LINES APPLY TO INSIDE EDGE OF PAINTED LINES.
4. COURT SURFACING COLOR TO BE SELECTED BY OWNER.  
(2 COLORS - SEE PLANS AND SPECS)
5. FOOTING FOR GOAL:
  - LOCATED 2' FROM END LINE FOR GOALS WITH 6' OVERHANG
  - LOCATED AT EDGE OF COURT FOR GOALS WITH 4' OVERHANG
  - SEE DETAIL THIS SHEET FOR GOAL POST AND FOOTING

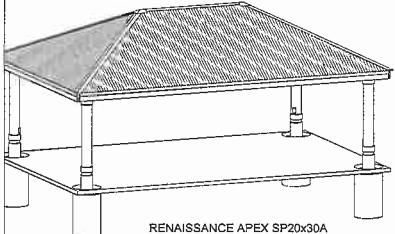




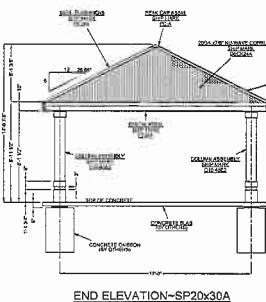


**GENERAL NOTES:**

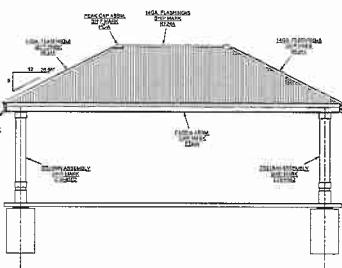
- 1. STRUCTURAL STEEL SHALL BE DESIGNED, DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE 1998 EDITION OF THE INTERNATIONAL STRUCTURAL IRONWORKERS' CODE, 13TH EDITION AND ASCE 36 OF STANDARD PRACTICE FOR STEEL BUILDINGS AND CONSTRUCTION.
- 2. STEEL SHALL CONFORM TO THE REQUIREMENTS FOR STRUCTURAL TUBING AND ASTM A503 GRADE 36.
- 3. ALL BOLTS SHALL BE GRADE 50. BOLTS SHALL BE "SNUG TIGHT" (Snug tight is defined as the "first effort of a worker with an ordinary wrench" is ATSF Handbook, 1998, page 105. USE OF TAPERED WRENCHES IS PROHIBITED IN PRACTICE SECTION 7.5).
- 4. ALL SHOT WELDING SHALL BE E71-17 OR E70-16W PWD AV151 TEST EDITION.
- 5. ALL SHOT WELDING SHALL BE E71-17 OR E70-16W PWD AV151 TEST EDITION. TOUCH UP PAINT AFTER WELDING.
- 6. ALL CORROSION PROTECTION COATED ROCK DOCK (GALVANIZED) SHALL BE ATTACHED TO STRUCTURE, INCLUDING PURLINS, WITH 10# HANGER PADS OR 1/2" X 1" X 1/8" HANGER THINPS, FLAT PAINTED TO MATCH ROCK DOCK. HANGER THINPS SHALL BE ATTACHED TO PURLINS WITH 1/2" X 1" X 1/8" HANGER THINPS, FLAT PAINTED TO MATCH PLASING.
- 7. ALL SHOT WELDING SHALL BE E71-17 OR E70-16W PWD AV151 TEST EDITION. TOUCH UP PAINT AFTER WELDING.
- 8. ALL SHOT WELDING SHALL BE E71-17 OR E70-16W PWD AV151 TEST EDITION. TOUCH UP PAINT AFTER WELDING OR POSTS, 5# PPS FOR DECK, AND 3#PPC FOR ALL ELSE.
- 9. ALL SHOT WELDING SHALL BE E71-17 OR E70-16W PWD AV151 TEST EDITION. DEBRIDE GROUT UNTIL HEAT REACHES GLASS DOME, 470°F OR ROLL, DFT 2.0-2.5 MLS.



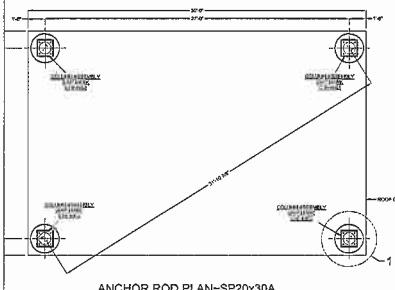
RENAISSANCE APEX SP20x30A



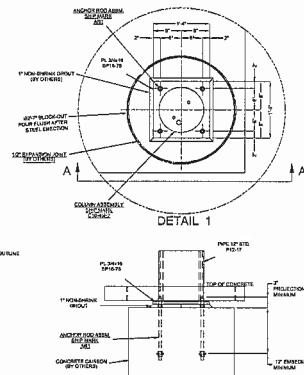
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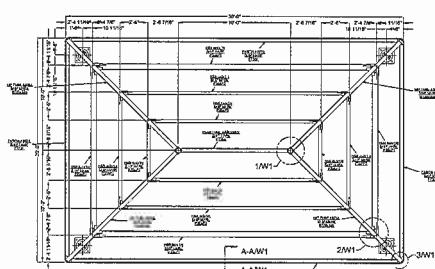
FRONT ELEVATION~SP20x30A



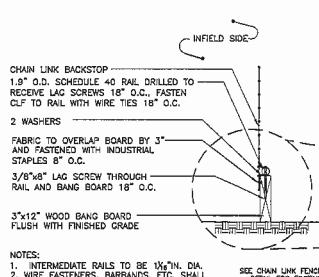
### ANCHOR ROD PLAN-SP20x30A



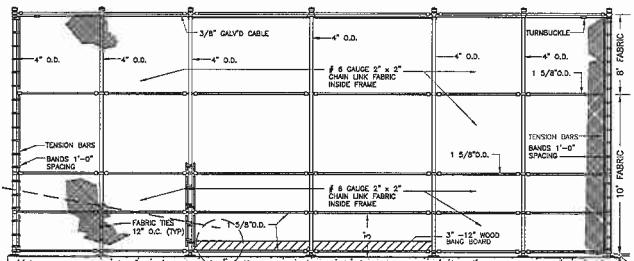
SUN SHELTER  
DETAIL



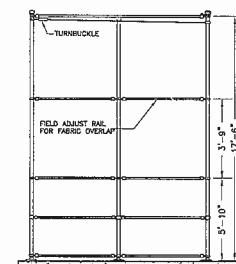
### FRAMING PLAN~SP20x30A



NOTES:  
1. INTERMEDIATE RAILS TO BE 1 $\frac{1}{2}$ " IN.  
2. WIRE FASTENERS, BARBANDS, ETC. SHOULD  
BE USED IN THE SAME MANNER AS FOR  
CHAINLINK FENCE  
3. INSTALL FABRIC ON INFIELD SIDE OF  
BACKSTOP



CHAIN LINK FENCE BACKSTOP  
DETAIL  
NOT TO SCALE



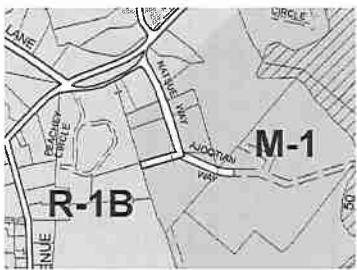
**SITE DETAILS VI**  
**TSUE WAY RECREATIONAL COMPLEX**  
**LOWER AREA**

Proj. No.	SITE DETAILS W NATTS WAY RECREATIONAL COMPLEX LOWER AREA		Prod. Mgr: BRH Designer: JC Drafter: JC Checked: BRH Scale: AS NOTED Date: MARCH 2017	Langdon Environmental LLC  2 SWAN ST. SUITE 300, NEW YORK, NY 10160 (646) 244-0233	NUMBER DATE MADE BY CHECKED BY REVISIONS DESCRIPTION
Dwg. No.	Native Way Middletown, MA				
CD - 6					

# **NATSUE WAY RECREATIONAL COMPLEX**

## **UPPER AREA DEVELOPMENT PLANS**

### ***Natsue Way Middleton, Massachusetts***



ZONING MAP  
NTS  
ZONES:  
R-1B RESIDENTIAL (40,000')  
M-1 LIGHT INDUSTRY



**MARCH 2017**

#### LIST OF DRAWINGS

C-0	COVER PAGE
G-1	GENERAL NOTES
EX-1	EXISTING CONDITIONS PLAN
C-1	SITE PREPARATION/DEMOLITION PLAN
C-2	LAYOUT PLAN
C-3	GRADING PLAN
C-4	MATERIALS PLAN
C-5	GAS COLLECTION SYSTEM LAYOUT
L-1	LANDSCAPE PLAN
CD-1	SITE DETAILS I
CD-2	SITE DETAILS II
CD-3	SITE DETAILS III
CD-4	SITE DETAILS IV
CD-5	SITE DETAILS V
CD-6	SITE DETAILS VI
CD-7	SITE DETAILS VII

GENERAL NOTES:  
1. Aerial Photogrammetric Mapping prepared by Eastern Topographics of Wolfeboro, NH. Aerial Ground Survey, a Limited Property Line Survey completed by Marwick Associates of Danvers, MA. Horizontal Datum assumed, Vertical Datum NAD 1929, Survey completed November 30, 2015.

2. THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE LATEST AVAILABLE INFORMATION. THE UTILITY LOCATIONS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, BOTH OVERHEAD AND UNDERGROUND. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY EXISTING UTILITIES LOCATED DURING THE WORKS RESTORATION AND REPAIR OF DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. NO EXCAVATION SHALL COMMENCE UNTIL ALL INVOLVED UTILITY COMPANIES AND/OR TOWN WHOSE FACILITIES MIGHT BE AFFECTED BY ANY WORK TO BE PERFORMED BY THE CONTRACTOR.

3. THIS SUBJECT SITE IS NOT LOCATED IN A DESIGNATED FLOOD ZONE AS SHOWN ON THE FIRM MAP FOR ESSEX COUNTY, MASSACHUSETTS, COMMUNITY PANEL NO. 2502000405. MAP REvised JULY 3, 2012. THE FLOOD ZONE FOR THE IPSWICH RIVER SOUTH OF THE SUBJECT SITE IS IDENTIFIED AS A FLOOD ZONE A, WITH A BASE FLOOD ELEVATION OF 49 MSL.

4. WETLAND RESOURCES WERE FLAGGED BY THE TOWN OF MIDDLETON CONSERVATION OFFICER IN DECEMBER 2015.

SITE NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (R&D) OF ALL MATERIALS INDICATED ON THE PLANS AND GENERATED BY CONSTRUCTION ACTIVITIES.

2. STOCKPILES OF EARTH MATERIALS SHALL NOT BE LOCATED ADJACENT TO DRAINAGE STRUCTURES INCLUDING SWALES OR WITHIN THE 100-FEET WETLAND BUFFER.

3. ALL DISTURBED AREAS OUTSIDE OF THE PAVED AREAS AND WITHIN THE LIMIT OF DISTURBANCE SHALL RECEIVE A 4" LAYER OF LOAM AND SEED UNLESS OTHERWISE SHOWN ON THE PLANS.

4. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SURVEY LAYOUT SERVICES FOR THE WORK AND SHALL SUBMIT AS-BUILT DRAWINGS OF ALL WORK WHICH SHALL BE STAMPED AND CERTIFIED BY A MASSACHUSETTS REGISTERED SURVEYOR.

5. ANY ITEM OF WORK NOT SPECIFICALLY INDICATED ON THE PLANS BUT REQUIRED FOR THE COMPLETE CONSTRUCTION OF THE PROJECT WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND INCLUDED IN THE CONTRACT BID PRICE. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING SITE CONDITIONS.

6. WHERE NECESSARY TO REMOVE CURBS, CATCH BASINS, OR DRAINS TO COMPLETE WORK, THE CONTRACTOR SHALL REPLACE SUCH ITEMS TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER. ALL ITEMS WITHIN THE LIMIT OF WORK SHALL BE REMOVED, EVEN IF NOT SHOWN ON THE PLANS.

7. ANY EXISTING PIPE OR UTILITY DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE OWNER, STATE OR TOWN.

8. THE CONTRACTOR SHALL RESTORE TO ITS ORIGINAL CONDITION OR REPLACE TREES, SHRUBS, FENCES, SIGNS, GUARDRAILS, DRIVEWAYS, SIDEWALKS AND ANY OTHER OBJECT AFFECTED BY THIS OPERATION TO THE SATISFACTION OF THE OWNER.

9. THE TOPS OF ALL VALVE BOXES AND CURB BOXES SHALL BE FLUSH WITH GROUND OR PAVEMENT SURFACE LEVEL AND PLUM, UNLESS OTHERWISE DIRECTED.

10. ROADWAYS SHALL BE LEFT PASSABLE AT ALL TIMES. CLOSURE OF ROADWAY IS NOT PERMITTED. CONTRACTOR SHALL NOTE THAT ACCESS TO NATIVE WAY SHALL BE LEFT AVAILABLE AT ALL TIMES AND PASSABLE FOR VEHICLES ACCESSING THE TOWN TRANSFER STATION AND EXISTING FIELDS.

11. WATER SERVICE SHALL BE MAINTAINED AT ALL TIMES.

12. ALL LEDGE TO BE REMOVED BY MECHANICAL MEANS.

13. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN THE DRY. THE CONTRACTOR SHALL PROVIDE, OPERATE AND MAINTAIN ALL PUMPS, DRAINS, WET POINTS, SCREENS, OR OTHER FACILITIES NECESSARY TO CONTROL, COLLECT AND DISPOSE OF ALL SURFACE AND SUBSURFACE WATER ENCOUNTERED IN THE PERFORMANCE OF THE WORK.

14. ALL DEMOLITION AND DISPOSAL ACTIVITIES SHALL BE DONE IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.

DRAINAGE SYSTEM NOTES:  
1. ALL RIM ELEVATIONS SHOWN ARE APPROXIMATE AND ARE TO BE SET FLUSH WITH FINAL GRADES.

MISCELLANEOUS UTILITY NOTES:  
1. PRIOR TO CONSTRUCTION ALL POTENTIAL UTILITY/DRAINAGE CONFLICTS MUST BE IDENTIFIED BY THE CONTRACTOR AND REPORTED TO THE PROPOSED UTILITIES. NO CONFLICTS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION, NO EXTRA PAYMENT TO THE CONTRACTOR DUE TO RELOCATION WILL BE AUTHORIZED.

2. OVERHEAD ELECTRIC AND TELEPHONE SERVICES ARE TO BE REMOVED BY THE APPROPRIATE UTILITY COMPANY AND COORDINATED BY THE CONTRACTOR.

3. THE CONTRACTOR SHALL AT ALL TIMES PROVIDE A SUFFICIENT NUMBER OF WORKMEN AND GUARDS AS MAY BE NECESSARY TO PROPERLY GUARD THE PUBLIC FROM CONSTRUCTION OPERATIONS.

4. THE CONTRACTOR SHALL TAKE PRECAUTIONS AGAINST THE DAMAGE OF PUBLIC HIGHWAYS, UTILITIES, OR PRIVATE PROPERTIES AND SHALL PROMPTLY REPAIR AT THE CONTRACTOR'S OWN EXPENSE ANY DAMAGE TO SUCH PAVING, SIDEWALKS, UTILITIES, OR PRIVATE PROPERTIES TO THE SATISFACTION OF THE OWNER.

5. EXISTING UTILITY FRAMES AND COVERS SHALL BE ADJUSTED TO GRADE AS REQUIRED IN NEW PAVING AND PAVING OVER AREAS.

LAYOUT NOTE:  
1. THE LAYOUT SHOWN REPRESENTS A GRAPHICAL DESIGN, AND PRIOR TO THE CONSTRUCTION, THE CONTRACTOR SHALL HIRE A PROFESSIONAL LAND SURVEYOR TO BE REGISTERED IN THE STATE OF MASSACHUSETTS TO SET AND VERIFY ALL LINES AND SPACES. ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS ARE TO BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY ITEM FOUND WHICH DOES NOT MATCH THE PLANS MUST BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION FOR REVIEW. ANY WORK PERFORMED BY CONTRACTOR THAT IS NOT NOTED TO ENGINEER IS AT CONTRACTOR'S OWN RISK.

Maintenance and Protection of Traffic Notes:  
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SETUPS, MAINTENANCE, AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC CONTROL, INCLUDING POLICE PROTECTION. ALL TEMPORARY AND VEHICULAR SIGNS, SIGNALING, BARRICADES, LANE CLOSURES, ETC. SHALL BE IN CONFORMANCE WITH THE LATEST REVISIONS OF MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION (M.U.T.C.D.)

2. TEMPORARY CONSTRUCTION SIGNS AND ALL APPLICABLE TRAFFIC CONTROL DIVIDES SHALL BE IN PLACE PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC.

3. THE PRIVATE VEHICLES OF CONSTRUCTION WORKERS SHALL NOT BE PARKED ON NATSUE WAY OR AJOOTAN DRIVE.

4. SIGN MOUNTINGS SHALL BE IN ACCORDANCE WITH THE MA D.O.T. SPECIFICATIONS FOR TEMPORARY CONSTRUCTION SIGNS.

DRAINAGE SYSTEM / OVERALL SITE MAINTENANCE.

1. ALL MAINTENANCE (INCLUDING CLEANING) REQUIRED DURING THE CONSTRUCTION PHASE OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL INCLUDE:

- MEASURES NEEDED TO ENSURE THE PROPER OPERATION OF THE STORMWATER RUNOFF (DRAINAGE) AND WATER DISCHARGE CONTROL SYSTEMS TO INCLUDE INSPECTION, CLEANING AND REPAIRS TO ALL PIPES, PITKATE AND DRAINAGE STRUCTURES (INCLUDING RIP-RAP SPLASH PADS), DETENTION PONDS, SWALES, CATCH BASIN SUMPS, AND MANHOLES.
- INSPECTION OF ALL SLOPES, BERMS, AND OTHER CONTROL STRUCTURES FOR STRUCTURAL INTEGRITY/STABILITY AND EROSION CONTROL. INSPECTIONS SHALL BE PERFORMED AS NECESSARY OR AS DIRECTED BY THE ENGINEER. INSPECTIONS SHALL BE PERFORMED FOLLOWING ALL RAINFALLS OF 1/2 INCH OR MORE, OR IN A 24-HOUR PERIOD, OR BIMONTHLY IF NO RAINFALL EVENT OCCURS.
- FOOTING OF THE CONSTRUCTION SITE, ANY SWALE, AND PERMANENT COVER OF GRASS OR RIP-RAP SHALL BE INSTALLED AT THE END OF PLACEMENT. OTHER INSURGENCE WITHIN THE VICINITY OF THE SWALE SHALL BE SEEDED AND STABILIZED IMMEDIATELY UPON COMPLETION OF THEIR CONSTRUCTION TO PREVENT EROSION.
- CONTRACTOR SHALL ENSURE THAT ALL EROSION CONTROL MEASURES ARE IN PLACE AND IN GOOD CONDITION. CONDUCT A FINAL INSPECTION, REPAIR ANY VISIBLE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES (SEEDING, PLANTING, ETC.) WHERE REQUIRED, AND REPAIR (OR REMOVE WHERE APPROPRIATE) ANY TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL DEVICES. AFTER PERMANENT SOIL STABILIZATION ON THE ENTIRE SITE, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES.
- CONTRACTOR SHALL PREPARE AND SUBMIT A STORMWATER POLLUTION AND PREVENTION PLAN (SWPPP) TO THE USEPA IN ACCORDANCE WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION (NPDES) REGULATIONS.

SOIL EROSION AND SEDIMENTATION CONTROL NOTES

1. THE LIMIT OF WORK LINE ILLUSTRATED ON THESE PLANS SHALL SERVE AS THE STRICT LIMIT OF DISTURBANCE FOR THE PROJECT SUBJECT TO REGULATED WETLAND AREAS.

2. THE LIMITS OF CLEARING, GRADING, AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THESE LIMITS, AS DEPICTED ON THE PLAN SHALL BE TOTALLY UNDISTURBED, TO REMAIN IN NATURAL CONDITION.

3. ALL CATCH BASINS AND CULVERTS SHALL BE PROTECTED WITH STAKED HAYBALES (BL. STD. 9-60 DURING CONSTRUCTION). THE PROPOSED EXISTING WATER DISCHARGE AREA SHALL BE LINED WITH A RIP-RAP SPLASH PAD AND PROTECTED WITH STAKED HAYBALE CUTLET PROTECTION, OR STAKED HAYBALE WITH SILT FENCE AND SHALL ALSO BE INSTALLED AT ALL EXISTING STORMWATER DISCHARGE LOCATIONS WHERE DISTRIBUTING PIPES, CATCH BASINS, AND MANHOLES ARE TO BE CLEARED AND FLUSHED.

4. ALL DISTURBED SOILS WHETHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEDED, PROTECTED AND MAINTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL REGULARLY CHECK ALL SEDED AREAS TO ENSURE THAT A CO-COND OF VEGETATION IS MAINTAINED.

5. ALL SEDIMENT FENCE, TEMPORARY TREATMENT AND TEMPORARY EROSION PROTECTION SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.

6. STOCKPILES OF SOIL SHALL NOT BE LOCATED WITHIN THE 100-FEET WETLAND BUFFER SHOWN ON THE PLANS. THEY SHALL HAVE SIDE SLOPES OF NO GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEDED AND/OR STABILIZED AS NEEDED TO MINIMIZE EROSION.

7. THE SEDIMENT FENCE SHALL BE CHECKED BY THE CONTRACTOR ON A WEEKLY BASIS AND AFTER EACH STORM FOR UNACCEPTABLE DEGENERATION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY SEDIMENT FENCE AS NEEDED. THE CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT OF THE FENCE BECOMES FILLED WITH SEDIMENTS.

8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL SOIL EROSION AND SEDIMENT CONTROLS ON THE PROJECT SITE FOR THE ENTIRE DURATION OF THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL FOLLOW THE DRAFTED MASSACHUSETTS EROSION AND SEDIMENTATION HANDBOOK AND THE DRAFTED MASSACHUSETTS SOIL EROSION AND SEDIMENTATION CONTROLS ON THE PROJECT SITE. TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROLS SHALL BE MAINTAINED UNTIL ALL EXPOSED SOILS ARE SATISFACTORILY STABILIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND/OR RESTEDING ALL AREAS THAT DO NOT DEVELOP ADEQUATE GROWTH WITHIN ONE YEAR FROM THE COMPLETION OF CONSTRUCTION.

9. ALL REFERENCED SOIL EROSION AND SEDIMENTATION CONTROLS INCLUDING MATERIALS USED, APPLICATION RATES AND THE INSTALLATION PROCEDURES SHALL BE PERFORMED PER THE "MASSACHUSETTS EROSION AND SEDIMENTATION HANDBOOK" LATEST EDITION.

GRADING AND GENERAL NOTES:

1. SEE SHEET EX-1, EXISTING CONDITIONS FOR SITE BENCHMARKS.

2. CONTRACTOR SHALL NOTIFY ENGINEER OF OBSTRUCTIONS ENCOUNTERED DURING EXCAVATION PRIOR TO CONTINUING WITH CONSTRUCTION ACTIVITIES.

3. ALL WALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% AND MINIMUM CROSS SLOPE OF 1%. ALL WALKWAYS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 5%.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF GRADE STAKES THROUGHOUT THE DURATION OF SITE GRADING.

5. IF EXISTING TREES, UTILITIES, OR STRUCTURES IMPEDE EXCAVATION WORK IN ANY MANNER, CONTRACTOR SHALL INFORM ENGINEER PRIOR TO CONTINUING WITH CONSTRUCTION ACTIVITIES.

6. ALL GRADES SHALL BE UNIFORM, MATCH EXISTING GRADES FLUSH AT THE LIMITS OF WORK DEPRESSIONS AND AREAS OF POOLING SHALL BE FILLED AND MADE TO DRAIN. ELEVATIONS SHOWN ARE FINISHED GRADES.

7. EROSION CONTROL BLANKET SHALL BE USED ON ALL SLOPES OF 3:1 OR GREATER AND IN THE BASE OF ALL SWALES.

LANDSCAPE NOTES:

1. CONTRACTOR TO STAKE LOCATION OF ALL TREES AND SHRUBS FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO PLANTING ACTIVITIES.

2. ALL TREES SHALL BE UNIFORM AND WELL BRANCHED SPECIMENS. CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT A MAINTAINABLE STAKE TO THE PLANTING SITE. LANDSCAPE ARCHITECT MAY REJECT AND PLANT MATERIAL THAT IS DAMAGED OR DEEMED UNSATISFACTORY.

3. ALL PLANT MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE AMERICAN STANDARDS FOR NURSERY STOCK, LATEST EDITION.

4. ALL PLANTING BEDS AND SAUCERS SHALL HAVE A 3-IN. DEPTH OF SHREDDED BARK MULCH AS SPECIFIED.

PROJ. NO.: 00000000000000000000	DATE: 01/01/2018	REVISIONS: 0
DESIGNER: [Signature]	REVIEWER: [Signature]	APPROVAL: [Signature]
CONTRACTOR: [Signature]	OWNER: [Signature]	PERMITTING AUTHORITY: [Signature]

Langdon Environmental LLC	2 SUMNER STREET, SUITE 300, ANDOVER, MA 01810
Proj. No.: 00000000000000000000	Dwg. No.: 00000000000000000000

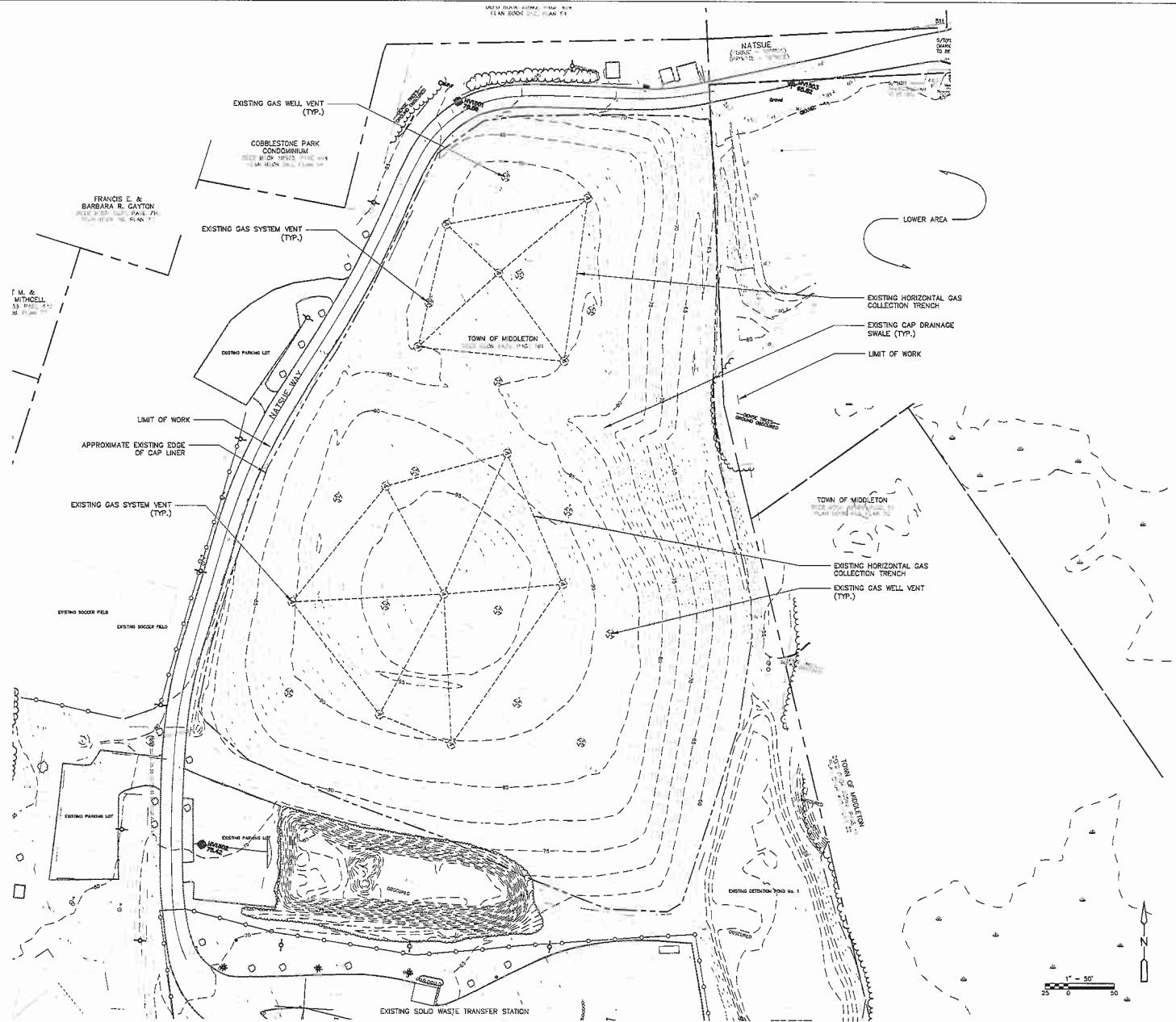
GENERAL NOTES	NATSUE WAY RECREATIONAL COMPLEX UPPER AREA
Proj. No.	NATSUE WAY MIDDLETON, MA
Dwg. No.	G-1

CONTROL POINT NO.	NORTHING	EASTING	ELEVATION
HV 1501	2440.41	2877.43	78.55'
HV 1502	1526.72	2599.54	75.42'
HV 1503	2460.77	3240.77	65.82'

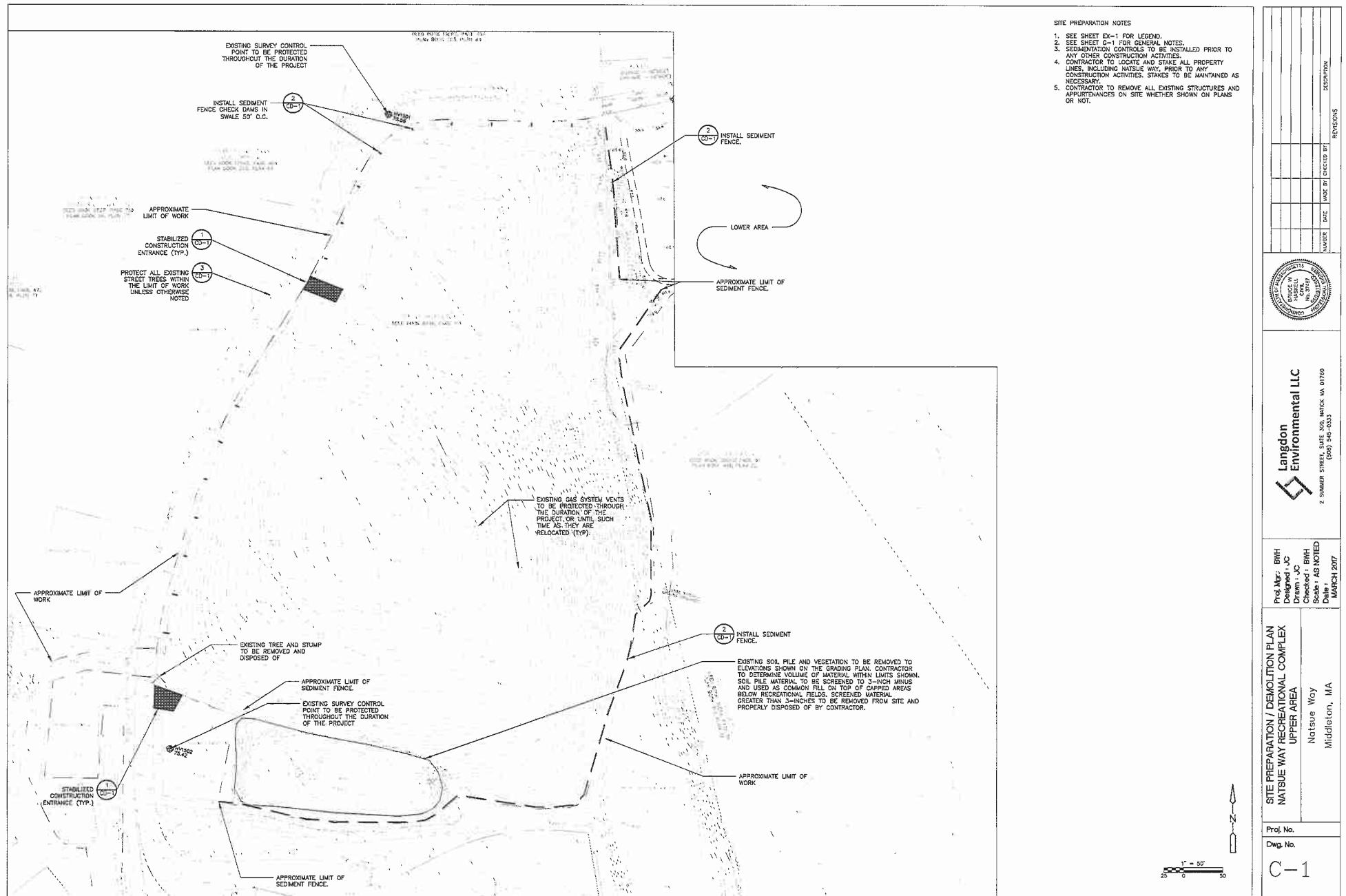
### EXISTING CONDITIONS LEGEND

PROPOSED LEGEND

— — — — — SEDIMENT FENCE  
 — — — — — WOOD GUARDRAIL  
 — — — — — EDGE OF PAVEMENT  
 — — — — — CHAIN LINK FENCE  
 — — — — — PROPOSED SURFACE CONTOUR  
 — — — — — PROPOSED SPOT GRADE  
 — — — — — VERTICAL GRANITE CURB  
 — — — — — LIMIT OF WORK



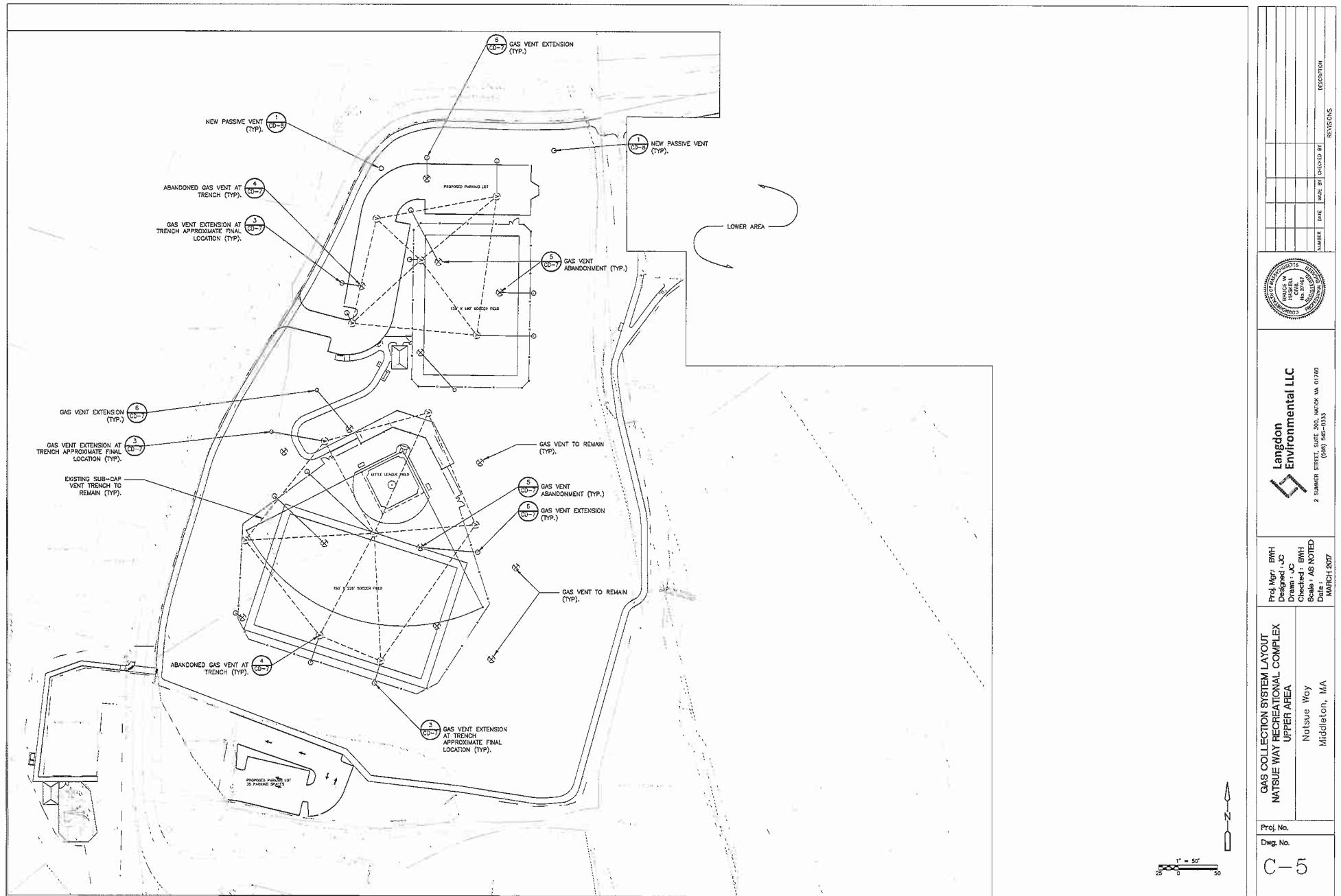
EXISTING CONDITIONS NATSUE WAY RECREATIONAL COMPLEX UPPER AREA		Langdon Environmental LLC	
Proj. No.	Dwg. No.	Prod. Mgr: BWH Designer: AC Drafter: AC Checked: BWH Scale: AS NOTED Date: MARCH 12, 2013	2 SUMMER STREET, SUITE 300, Natick, MA 01760 (508) 645-0313
Natsue Way Middleton, MA		  APPROVED BY THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENT FOR CONSTRUCTION PURPOSES AND NOT FOR SUBDIVISION PURPOSES MASSACHUSETTS DEPARTMENT OF ENVIRONMENT 110 Milk Street Boston, MA 02109 (617) 292-3000 www.mass.gov/dep	
<b>EX-1</b>			

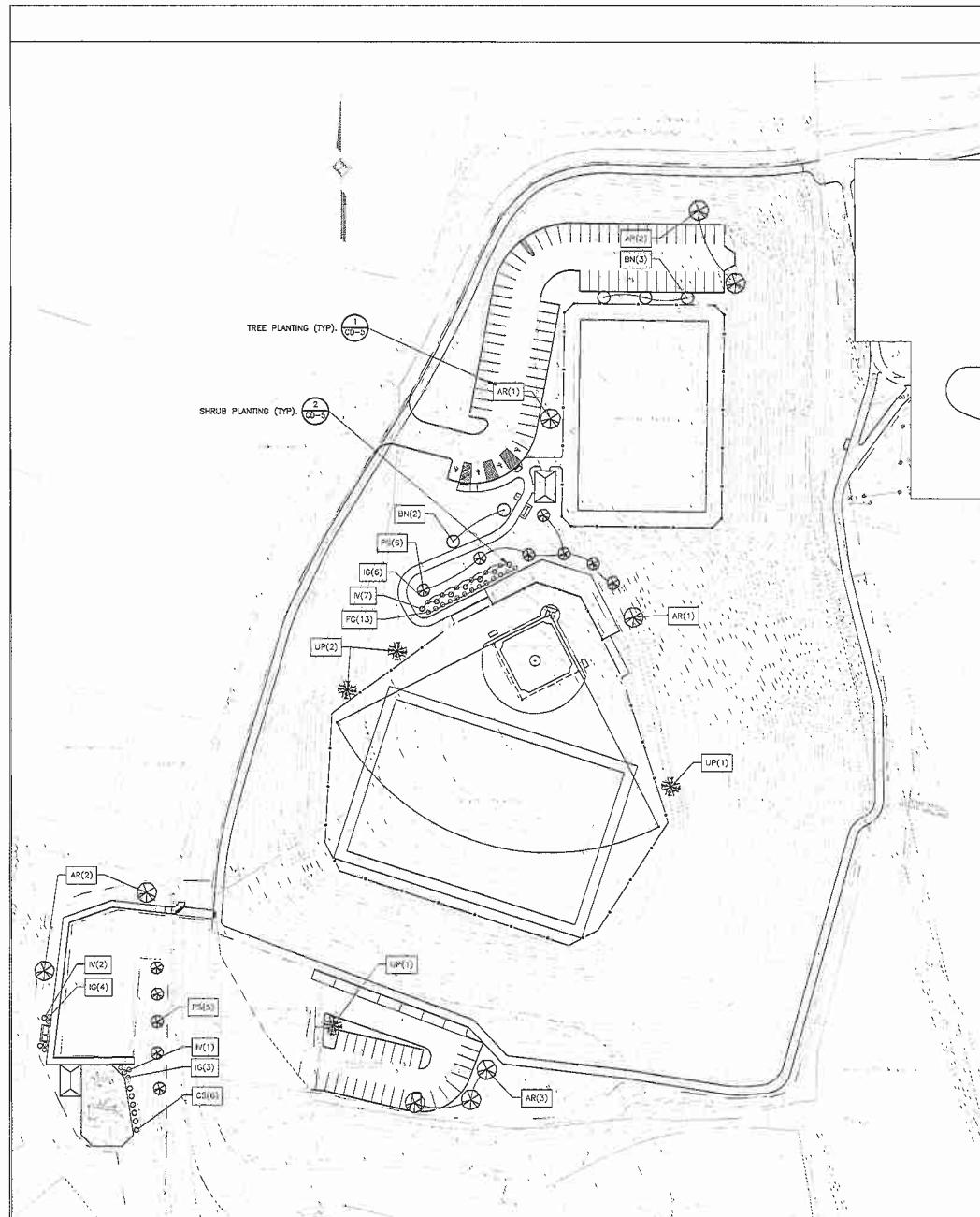






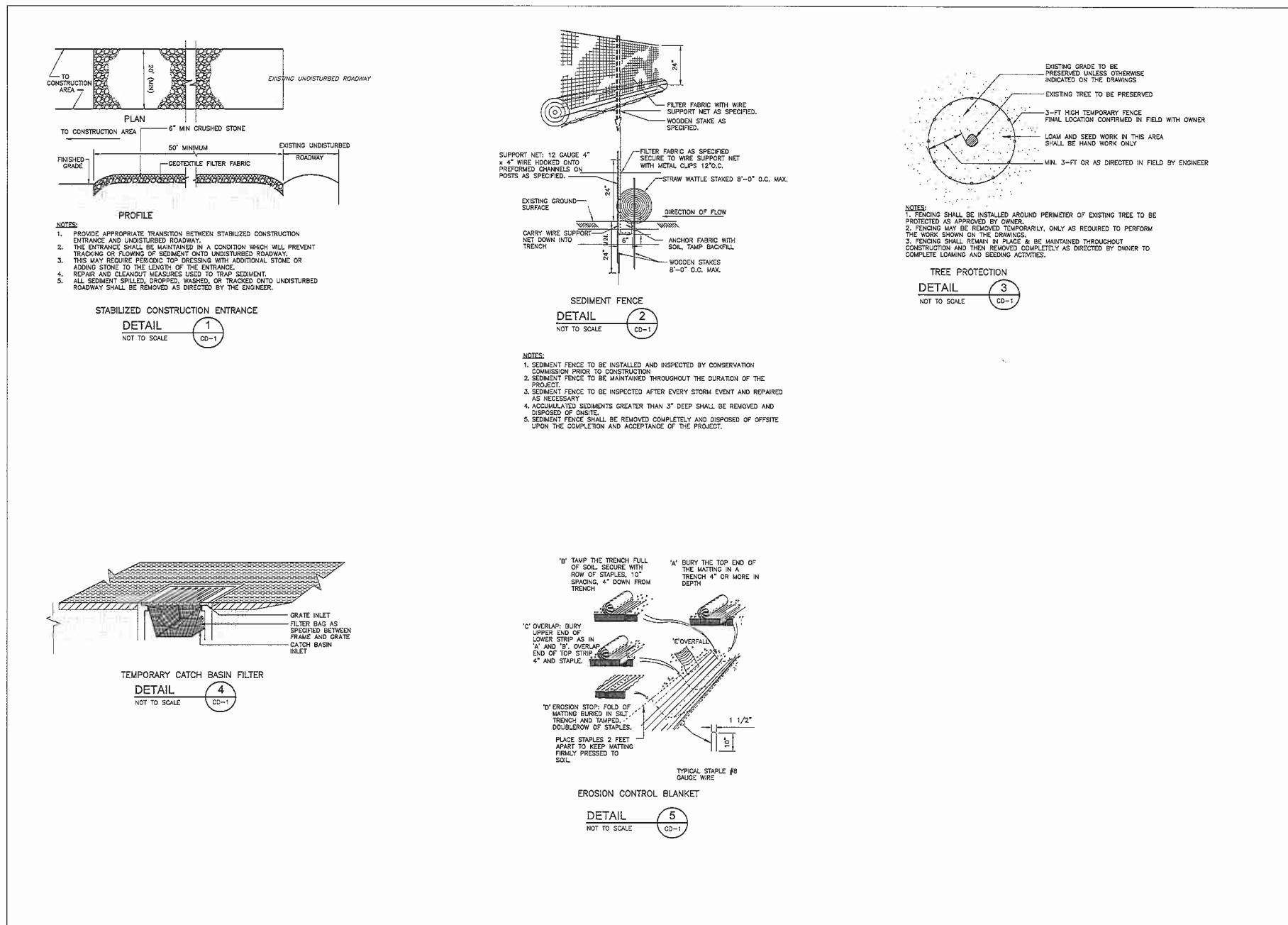






SYM	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
<b>TREES</b>						
PS	11	PRUNUS SERRULATA 'KANZAN'	JAPANESE FLOWERING CHERRY	2-2.5' CAL	BB	
AR	9	ACER KURIUM 'RED SUNSET'	RED MAPLE	3-3.5' CAL	BB	
UP	4	ULMUS 'PATRIOT'	PATRIOT ELMS	3-3.5' CAL	BB	
BN	5	BETULA NIGRA 'HERITAGE'	HERITAGE RIVER BIRCH	2-2.5' CAL	BB	
<b>SHRUBS</b>						
IG	13	ILEX GLABRA 'DENSIA'	INKBERRY	#15 POT		
FG	13	FOTHERGILLA 'CAROLENII'	FOTHERGILLA	#5 POT		
CS	6	CORNUS SERICEA	RED TWIG DOGWOOD	#5 POT		
IV	10	ILEX VERTICILLATA	COMMON WINTERBERRY	#5 POT		





2 SUMMER STREET, SUITE 300, Natick, MA 01760  
(508) 545-0333

SITE DETAILS I		Proj. No.: BWH
NATSUE WAY RECREATIONAL COMPLEX		Design - JC
UPPER AREA		Drawn - JC
Natsue Way		Checked - BWH
Middleton, MA		Sealed - AS NOTED
Proj. No.	MARCH 2017	
Dwg. No.		
CD-1		

NOTES:  
1. ROLL & TAMP ALL EDGES OF BIT. CONC. PAVMT. WHERE ABUTTING LAWNS AND OTHER NON-RIGID SURFACES TO FORM NEAT, UNIFORM LINES. PROVIDE JOINT SEALANT WHERE NEW PAVEMENT ABUTS EXISTING PAVEMENT.

#### GEOTEXTILE FILTER

## BITUMINOUS CONCRETE PAVEMENT: ROADWAY/PARKING SPACES

DETAIL 1  
SCALE: NTS CD-2

## NOTES

The diagram illustrates a 3' wide asphalt paving section. The top layer is labeled 'FINISH GRADE'. Below it is a layer labeled 'TYPE'. The cross-section shows four distinct layers from top to bottom: '1 1/4" LAYER TOP COURSE', '1 3/4" LAYER BINDER COURSE', '4" LAYER DENSE GRADED CRUSHED STONE', and the bottom layer is 'ASPHALT'. The diagram shows the asphalt layer being applied over the stone base.

GEOTEXTILE 5

## BITUMINOUS CONCRETE PAVEMENT: WALKWAY

DETAIL 4  
SCALE: NTS CD-2

PAVEMENT MATCH  
DETAIL 8  
SCALE: NTS

Technical drawing showing a composite panel with a 2x2 grid of circular holes and a central circular hole. The panel has a total width of 50.750" and a height of 14.441". The central hole has a diameter of 1.000" and is located at the center of the panel. The grid of holes has a width of 24.250" and a height of 12.000". The drawing also includes a 'DETAILED DRAWING' section showing a cross-section of the panel with dimensions for the top and bottom layers, and a map of the USA with a callout to the 'DETAILED DRAWING' area.

Technical drawing of a detectable warning strip. The strip is 1.117 inches wide and 1.670 inches long. It is labeled '100% E + SONE' and '150% E + SONE'. A detail callout labeled 'DETAIL 2' points to a circular feature.

Technical drawing of a concrete foundation wall. The wall is 13'-10 1/2" long, 6'-7 1/2" high, and 6'-0" thick. It has two lap joints, one on each end. Two posts are shown, each with two bolts centered on the wall. The bottom of the wall is labeled "FINISH GRADE".

**ELEVATION**

Dimensions shown on the left side of the diagram:

- 1'-0" (top horizontal line)
- 1'-0" (top horizontal line)
- 2'-3" (vertical line, labeled BACK SIDE)
- 3'-9" (vertical line, labeled FRONT SIDE)
- 6' (bottom horizontal line)
- 11' (bottom horizontal line)

Key components and details:

- Post:** 4" x 10" x 13'-0" <sup>1/2"</sup> PRESSURE TREATED WOOD RAL LAP JOINT AT EARTHY OTHER POST
- Bracing:** 4" x 8" x 8'-0" <sup>1/2"</sup> PRESSURE TREATED WOOD POST PLACE POSTS 6'-7 1/2" O.C. MAX.
- Ground:** 5 1/2" CARRIAGE BOLTS, GROUNDING NUTS AND SPLASH BOLT ENDS
- Base:** 4" x 10" x 6' LAYER WASHED STONE PAVEMENT
- Gravel:** TAPEDED SCREENED GRAVEL IN 6' LIFTS ALL AROUND POSTS

Bottom center: 8" TYP.

SECTION  
WOOD GUARDRAIL  
DETAIL 5  
NOT TO SCALE CD-2

ACCESSIBLE PARKING SIGN  
DETAIL  
NOT TO SCALE

The diagram illustrates a transition curb section with the following dimensions and requirements:

- Vertical dimensions:** 5'-0" total height, 6'-0" total width.
- Horizontal dimensions:** 6'-0" from the curb face to the center of the ramp, 4'-0" from the ramp center to the vertical granite curb, and 8'-0" total width.
- Slope:** The ramp has a 1:12 slope maximum (MAX.) on both sides.
- Curbs:** The transition curb section includes a flush curb section and a vertical granite curb.
- Text labels:** BACK OF CONC. WALK, FLUSH CURB SECTION, TRANSITION CURB SECTION BOTH SIDES OF RAMP (TYPE), and VERTICAL GRANITE CURB.

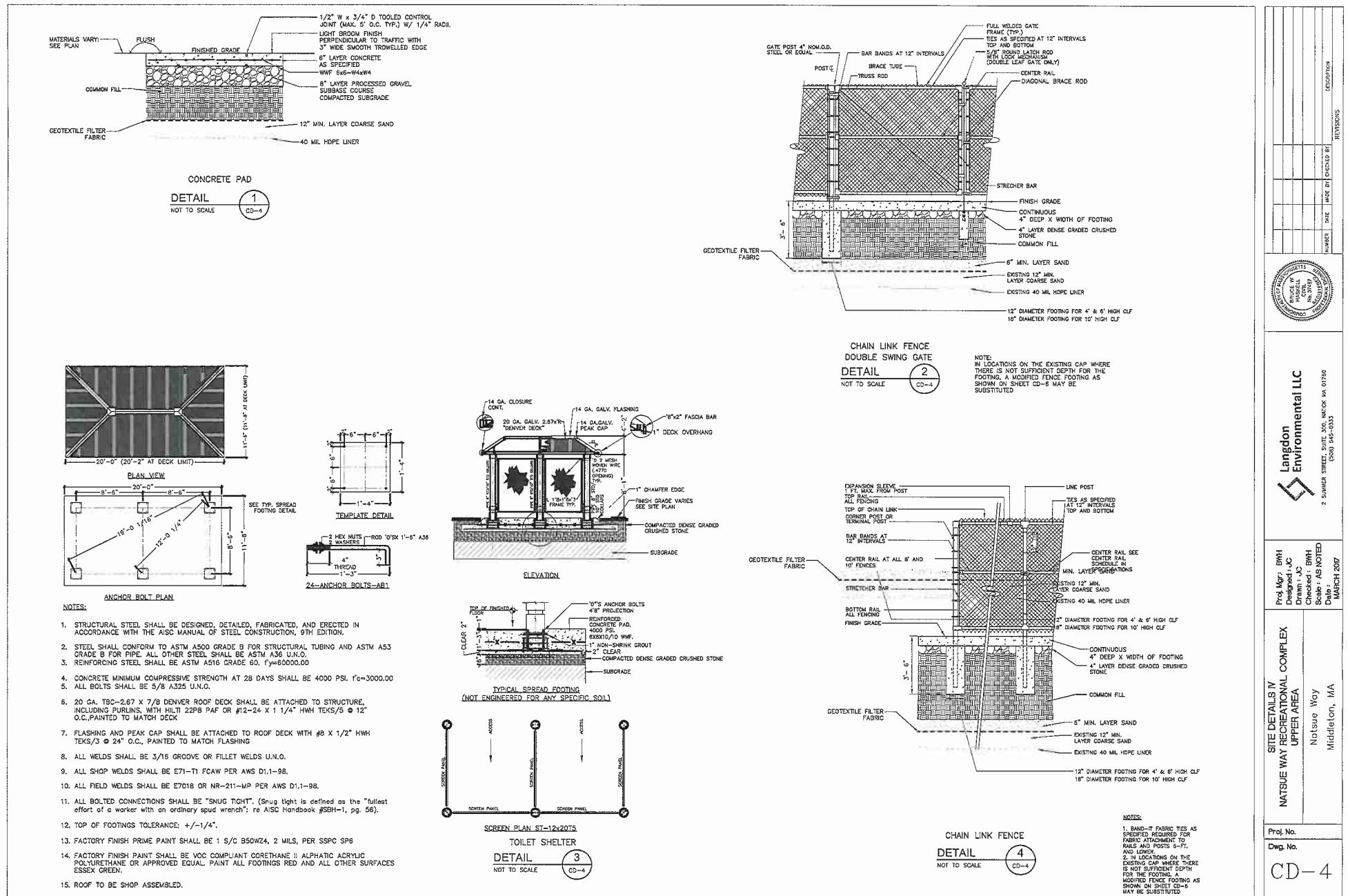
NOTES: (LEFT TRANS.) (DEPRESS) (RIGHT TRANS.)

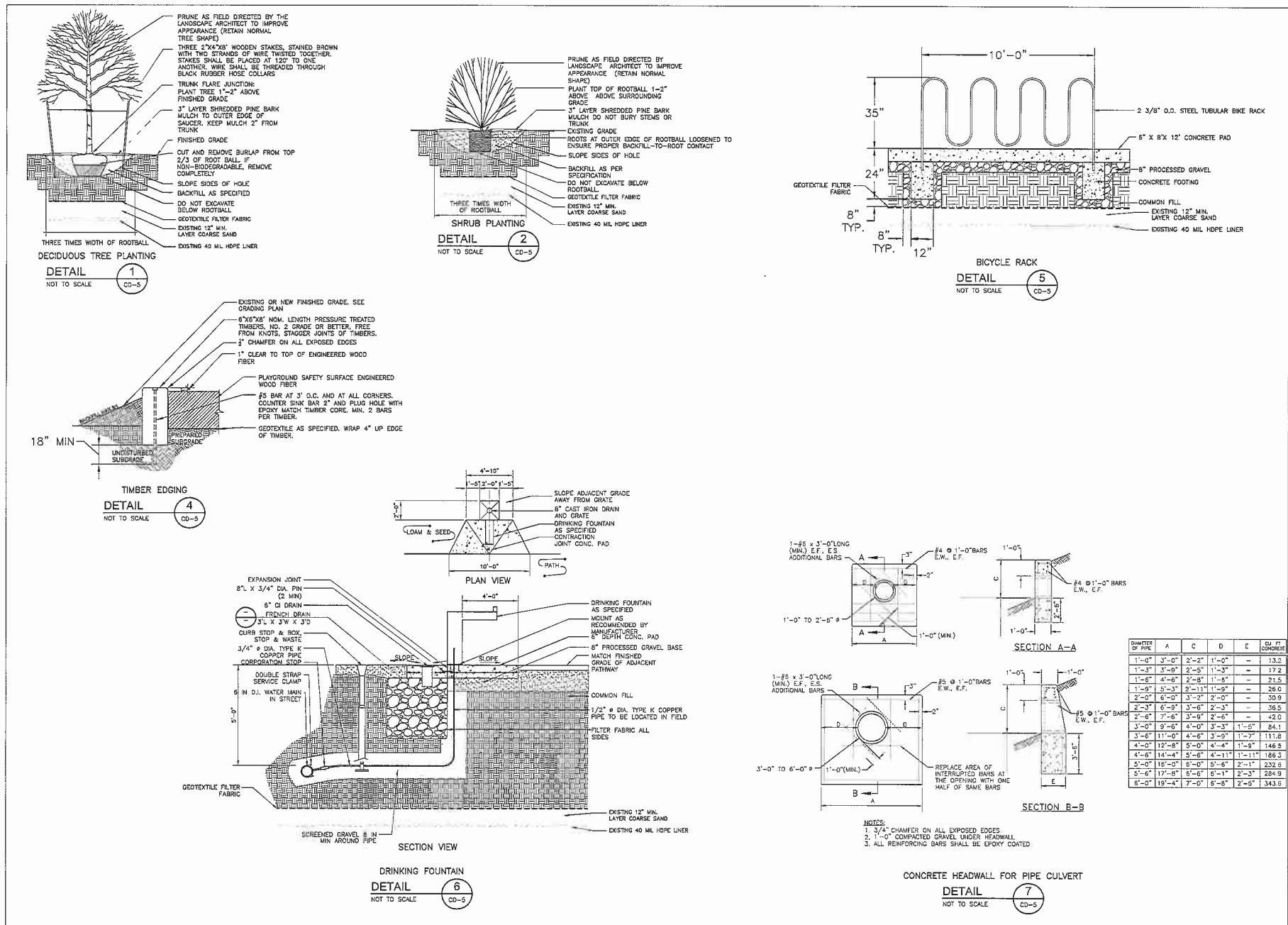
1. DIMENSIONS ARE SUBJECT TO CHANGE IN FIELD. ALL SLOPES AND DIMENSIONS TO COMPLY WITH A.D.A. AND MABA REQUIREMENTS.
2. MINIMUM WALL DIMENSIONS ARE FROM BACK OF CURB.
3. TRANSITION CURVE LENGTH AS REQUIRED MUST MEET CODE.
4. FIXED OBJECTS (i.e. UTILITY POLES, HYDRANTS ETC.) MUST NOT ENCRACK ON ANY PART OF THE ROADWAY INCLUDING THE SIDEWALKS AND CROPPED AREAS.

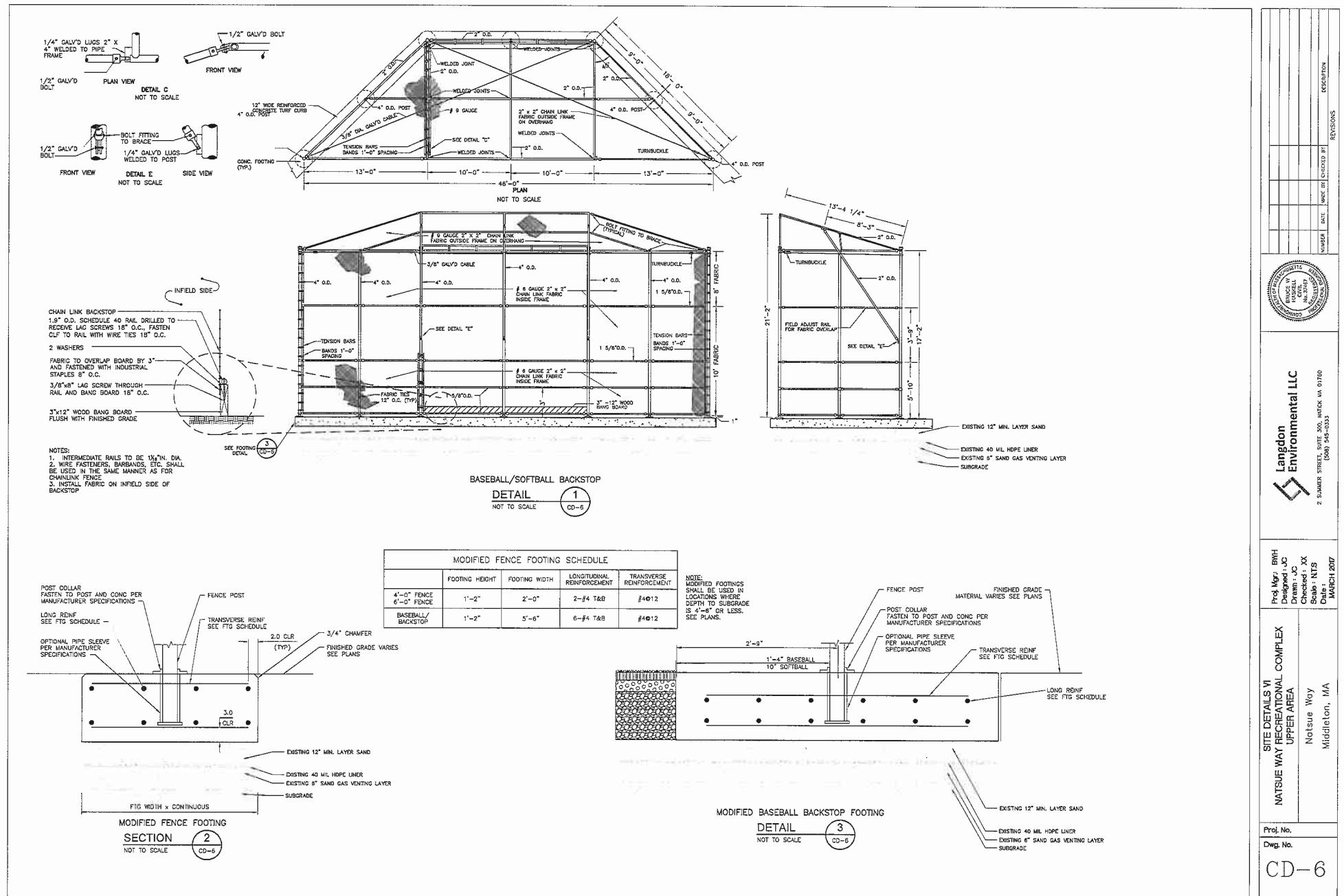
ACCESSIBLE CURB RAMPS  
DETAIL 8  
NOT TO SCALE CD-2

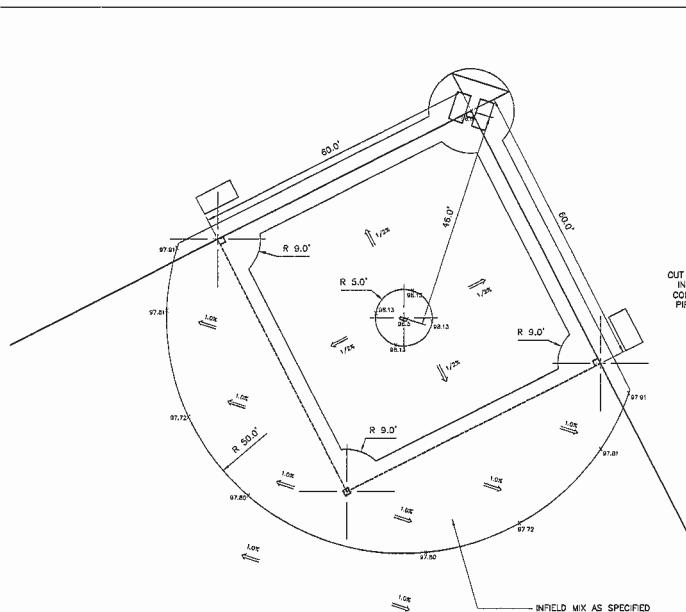
SITE DETAILS II		Langdon Environmental LLC	
Proj. No.	NATSUE WAY RECREATIONAL COMPLEX UPPER AREA	Proj. Mgr.: BWH Designed : J.C Drawn : J.C	Scale: AS NOTED Checked : BWH Date: MARCH 2017
Dwg. No.	Natsue Way Middleton, MA	2 SUMMER STREET, SUITE 300, Natick, MA 01760 (508) 640-0233	
CD-2		NUMBER	DATE
		MADE BY	REVISIONS
		CHECKED BY	
		DESIGNER	





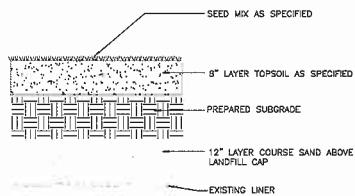






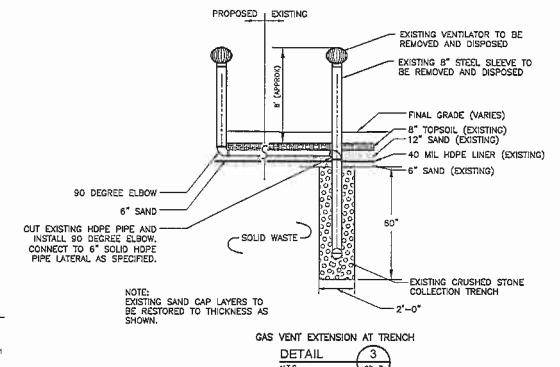
## BASEBALL INFIELD LAYOUT AND GRADING

DETAIL  
SCALE: NTS



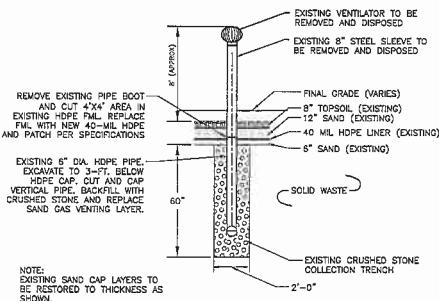
MULTI-PURPOSE FIELD CROSS SECTION

DETAIL 2  
NOT TO SCALE CD-7



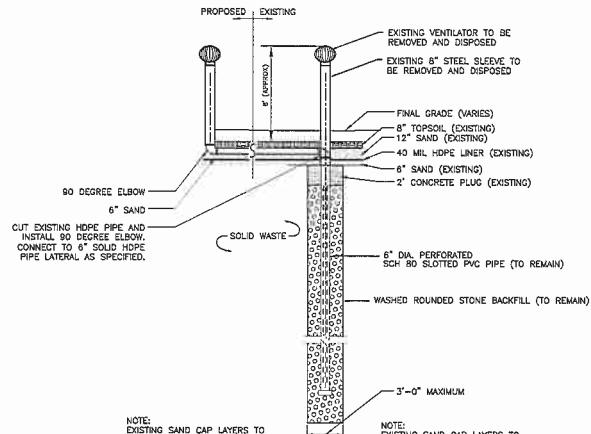
GAS VENT EXTENSION AT TRENCH  
DETAIL 3

NOTE:  
EXISTING SAND CAP LAYERS TO  
BE RESTORED TO THICKNESS AS  
SHOWN.



ABANDONED GAS VENT AT TRENCH  
DETAIL 4

GAS VENT ABANDONMENT (TM)  
DETAIL 5



**GAS VENT EXTENSION**  
**DETAIL**   
N.T.S.