

August 2, 2019

Via Hand Delivery and Electronic Mail

Melanie A. Bachman, Esq.
Executive Director/Staff Attorney
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: **Docket No. 470B – NTE Connecticut, LLC Application for a Certificate of Environmental Compatibility and Public Need for the Construction, Maintenance and Operation of a 650 Megawatt Dual-Fuel Combined Cycle Electric Generating Facility and Associated Electrical Interconnection Switchyard Located at 180 and 189 Lake Road, Killingly, Connecticut**

Phase 1 Development and Management Plan Submission

Dear Ms. Bachman:

Enclosed please find an original and fifteen (15) copies of the Phase 1 Development and Management (“D&M”) Plan for the Killingly Energy Center, approved by the Siting Council on June 6, 2019. As described in more detail in this submission, the Phase 1 D&M Plan describes specific construction activities including, but not limited to, tree and vegetation clearing, installation of erosion and sedimentation controls and stormwater pollution prevention measures, rough site grading and earth work, blasting requirements, and other information required by the Council.

In addition to the copies of the Phase 1 D&M Plan, this submission includes two (2) full size (24” x 36”) sets of the following Appendices and Attachments, filed in bulk:

Appendix A – Attachment 2 – Site Survey
Appendix A – Attachment 4 – Existing Conditions Plan

Robinson+Cole

Melanie A. Bachman, Esq.

August 2, 2019

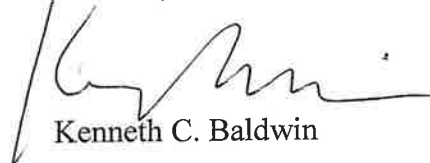
Page 2

Appendix B – Attachment 1 – Phase 1 Site Development Plan
Appendix B – Attachment 2 – Grading Comparison Plan
Appendix D – Attachment 1 – Erosion and Sedimentation Control Plan
Appendix F – Attachment 1 – Water Connection Route
Appendix F – Attachment 2 – Sewer Connection Route

In accordance with our agreement with the Town of Killingly, a copy of the Phase 1 D&M Plan has been provided to Mary Calorio, Town Manager and Anne-Marie Aubrey, Director of Planning and Development. A copy of the Phase 1 D&M Plan has also been placed in the Killingly Public Library.

Please do not hesitate to contact me if you have any questions or need any additional information.

Sincerely,



Kenneth C. Baldwin

KCB/kmd

Enclosures

Copy to:

Mary Calorio, Town Manager (*via hand delivery*)

Anne-Marie Aubrey, Director of Planning and Development (*via hand delivery*)

Tim Eves



Killingly Energy Center

Development and Management Plan

Phase 1

Construction of a Natural Gas-Fired Combined Cycle Power Plant

Submitted to Connecticut Siting Council for Approval

August 2019

Introduction

On June 6, 2019, NTE Connecticut, LLC ("NTE") received Connecticut Siting Council ("CSC") approval to construct the Killingly Energy Center ("KEC"), a 650 MW natural gas-fired combined cycle facility to be built in Windham County, Killingly, Connecticut. The Project is expected to achieve commercial operations in early 2022 under a date-certain Engineer, Procure, Construct Agreement.

Project Description

KEC will utilize the latest, commercially proven, most advanced and efficient gas turbine technology in a 1-on-1 combined cycle configuration, consisting of one Mitsubishi Hitachi Power Systems America (501JAC gas turbine generator ("GTG")), one heat recovery steam generator ("HRSG") and one steam turbine generator ("STG"). KEC has been designed to minimize water use and wastewater discharge through the use of an air-cooled condenser ("ACC") and has incorporated measures to limit the potential for ecological impacts.

NTE has prepared this Development and Management ("D&M") Plan in support of the construction of KEC pursuant to the requirements of sections 16-50j-60 through 16-50j-62 of the Regulations of Connecticut State Agencies ("RCSA"). In addition to the general requirements, specific information identified for the D&M Plan in KEC's CSC Decision and Order is also provided. The D&M Plan will be submitted in phases to encompass elements of work activities associated with KEC's construction that require early initiation in order to meet the KEC construction schedule.

Organization of the D&M Plan

The preface of this report (D&M Plan Requirement Tables section) provides two reference tables; the first lists the regulatory requirements under RCSA 16-50j-60 through 16-50j-62, and the second lists the requirements of the CSC Decision and Order approving KEC. Each table contains cross references to the location within the D&M Plan where a specific requirement is addressed, and where applicable, discussed. Where certain information is planned for submittal in a later D&M Plan filing, this is also noted in each table.

Phasing of the D&M Plan

This document represents the first of three (3) phases of the D&M Plan to be submitted to the CSC. Each phase of the D&M Plan submittal is meant to cover specific construction activities as outlined below.

- Phase 1
 - Health and safety
 - Tree and vegetation clearing
 - Erosion & sedimentation control/stormwater pollution prevention
 - Rough grading and earthwork
 - Blasting
 - Security (Phase 1 activities only)
 - Schedule (Phase 1 activities only)
 - Decommissioning (Phase 1 activities only)
- Phase 2
 - Final equipment design and site arrangements
 - Final grading
 - Natural gas connection plan
 - Final noise mitigation measures and plans
 - Site security (Phase 2 activities only)
 - Detailed project schedule

- Updated decommissioning plan
- Phase 3
 - Landscaping
 - Wetland replication and temporary work area restoration activities
 - Design details regarding operation-specific activities (deliveries, chemicals, spill prevention, etc.)

Compliance with Municipal Regulate and Restrict Orders

Over a period of three years, NTE has engaged with the Town of Killingly to acquire their review and input into the design of KEC and to ensure the Town of Killingly's input and requests were accounted for and incorporated to the extent practical. NTE is committed to closely coordinating with the Town of Killingly during construction and operations of KEC.

The Town of Killingly's Regulate and Restrict orders pertaining to KEC are included in the CSC Findings of Fact #193 through #263. Certain Regulate and Restrict Orders related to items covered in this Phase 1 D&M Plan will be referenced in this document to ensure full compliance.

D&M Plan Requirement Tables

RCSA 16-50j-60 through 16-50j-62 Requirements Table

Item	Requirement	Phasing Details	D&M Plan Appendix
16-50j-61 (a)	Key map		Appendix A Attachment 1 (Key Map)
16-50j-61 (b)	Plan drawings showing: 1. Edges of site, location and owner of contiguous parcels; 2. Adjoining public roads and public lands;	Included in Phase 1	Appendix A Attachment 2 (Property Survey)
	3. Location of each 50-foot contour shown on Key map;		Appendix A Attachment 4 (Existing Topography)
	4. Location and height of facility components, including trenching;		Included in Phase 2
	5. Points of access;		Appendix C Attachment 1 (Construction Traffic Route Plan)
	6. Edges of existing and proposed clearing;		Appendix B Attachment 1 (Site Development Plan) Attachment 2 (Grading Comparison Plan)
	7. Sensitive areas a. Wetlands b. Areas of high erosion potential c. Habitat areas		Appendix B Attachment 1 (Site Development Plan)
	d. Underground utilities e. Adjoining residences that may be disrupted		Appendix A Attachment 2 (Property Survey) Attachment 3 (Adjoining Residence Map)
	f. Significant environmental, historic and ecological features		Appendix B Attachment 1 (Site Development Plan)

Item	Requirement	Phasing Details	D&M Plan Appendix
16-50j-61 (c)	Supplemental Information: 1. Plans to salvage marketable timber, restore habitat and maintain snag trees;	Included in Phase 1	Appendix B
	2. Construction rehabilitation procedures, including for: a. Wetland and waterways proximity b. Sedimentation and erosion control		Appendix D Attachment 1 (Erosion & Sediment Control Plan)
	c. Species protection d. Stormwater management e. Watercourse bank management f. Protection of historic and archaeological resources		Appendix E
	3. Method and type of vegetative clearing and maintenance;		Appendix B
	4. Public recreation areas or activities;		Appendix A Attachment 2 (Property Survey)
	5. Plans for disposal of excess material and stumps; 6. Blasting locations;		Appendix B Attachment 1 (Site Development Plan)
	7. Reseeding and topsoil specifications;		Included in Phase 3
	8. Contractor contact information;		Appendix H Attachment 1 (Emergency Response Action and Fire Prevention Plan)
	9. Other site-specific information at CSC's request;		Included in Phase 1
16-50j-61 (d)	Notice of D&M Plan filing to service list		Requirements acknowledged
16-50j-61 (e)	CSC's right to require changes to the D&M Plan	N/A	

470B CECPN Finding of Facts Dockets Requirements Table

Item	Requirement	Phasing Details	D&M Plan Appendix
(a)	Final Site Plan	Included for Phase 1 activities only; layout of equipment to be shown in Phase 2	Appendix B Attachment 1 (Site Development Plan) Attachment 2 (Grading Comparison Plan)
(b)	Natural Gas Connection Plan	To be included in Phase 2	
(c)	Water and Sewer Connection Routes	Included in Phase 1	Appendix F Attachment 1 (Water Connection Route) Attachment 2 (Sewer Connection Route)
(d)	Detailed Project Schedules	Included for Phase 1 activities only; Schedule for later activities to be included in Phase 2	Appendix G Attachment 1 (Phase 1 Project Schedule)
(e)	Erosion & Sedimentation Control Plans	Included in Phase 1; Connecticut Department of Energy and Environmental Protection ("CTDEEP") confirmation of coverage under Construction General Permit to be include in Phase 2	Appendix D Attachment 1 (Erosion & Sediment Control Plans)
(f)	Wetland Restoration and Creation Plans	Included in Phase 3	
(g)	Emergency Response/Safety Plan	Included in Phase 1	Appendix H Attachment 1 (Emergency Response/Safety Plan)
(h)	Final Noise Mitigation Measures and Plans	To be included in Phase 2	
(i)	Stormwater Design and Management Plan	Final limits of grading, including detention basin sizing included in Phase 1; stormwater management	Stormwater Pollution Control Plan undergoing review by CTDEEP; to be

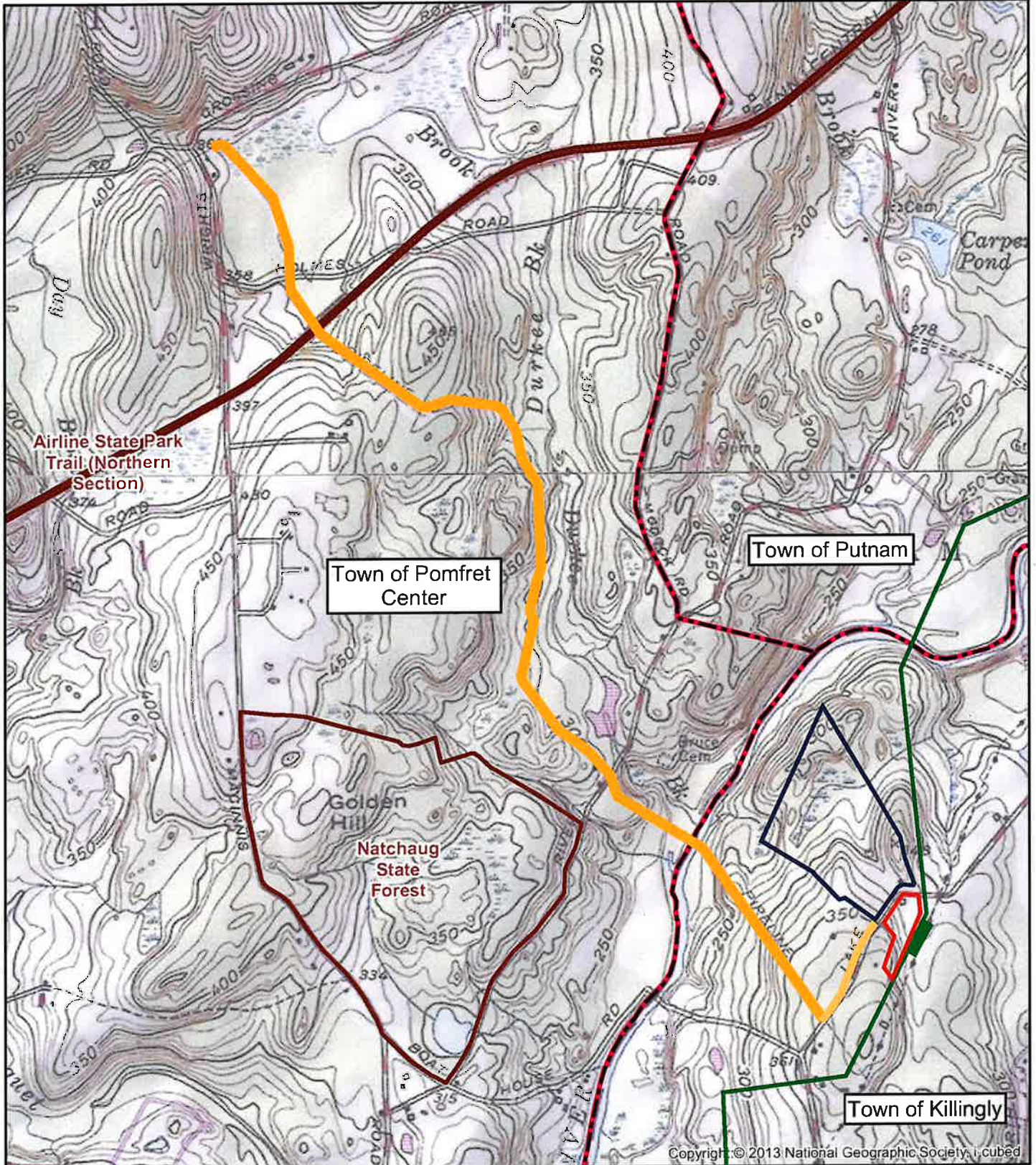
Item	Requirement	Phasing Details	D&M Plan Appendix
		details and coverage under Construction General Permit to be included in Phase 2	provided to CSC following approval
(j)	Decommissioning Plan	Provided to address early construction activities; later D&M Filings will provide additional detail	Appendix I
(k)	Final Fuel Storage and Handling Plan	Layout of equipment to be shown in Phase 2; details to be included in Phase 3	
(l)	Final Plans for Delivery, Storage and Containment of Aqueous Ammonia	Layout of equipment to be shown in Phase 2; details to be included in Phase 3	
(m)	Final Plans for Delivery, Storage and Usage of Hydrogen	Layout of equipment to be shown in Phase 2; details to be included in Phase 3	
(n)	Backup Generator Design and Containment Measures for Fuel, Oil and Coolant	Layout of equipment to be shown in Phase 2; details to be included in Phase 3	
(o)	Dewatering Plan	Included in Phase 1	Appendix D Attachment 1 (Erosion & Sediment Control Plans)
(p)	Final Construction Traffic Route Plans	Included in Phase 1	Appendix C Attachment 1 (Construction Traffic Route Plan)
(q)	Fence Design and Other Site Security Measures	Included for Phase 1 activities only; design and measures for later activities to be included in Phases 2 and 3	Appendix B Attachment 1 (Site Development Plan)

Appendix A

Attachment 1 – KEC Key Map

In accordance with RCSA 16-50j-60 through 16-50j-62, NTE hereby submits the Key Map for the KEC facility, which includes the following features as required under the applicable section of RCSA 16-50j-61.

Requirement	Description
16-50j-61 (a)	The D&M plan shall include a key map for the site, including the entire electric transmission line or fuel transmission line, as applicable, that is a reproduction at a scale of 1 inch = 2,000 feet of the most recent USGS topographic maps for its location and route.



Towns of Killingly, Putnam and Pomfret Center in Windham County, Connecticut

- KECC Facility
- Proposed Gas Interconnect
- Municipal Boundary
- State-Owned Property
- KECC Switchyard
- Proposed Electrical Interconnect

1 inch = 2,000 feet
Scale in Feet
0 1,000 2,000

KECC Key Map

USGS Topo

Date: 8/23/2017

Attachment 2 – Property Survey, Killingly Engineering Associates

In accordance with RCSA 16-50j-60 through 16-50j-62, NTE hereby submits the Property Survey produced by Killingly Engineering Associates, which includes the following features as required under the applicable sections of RCSA 16-50j-61.

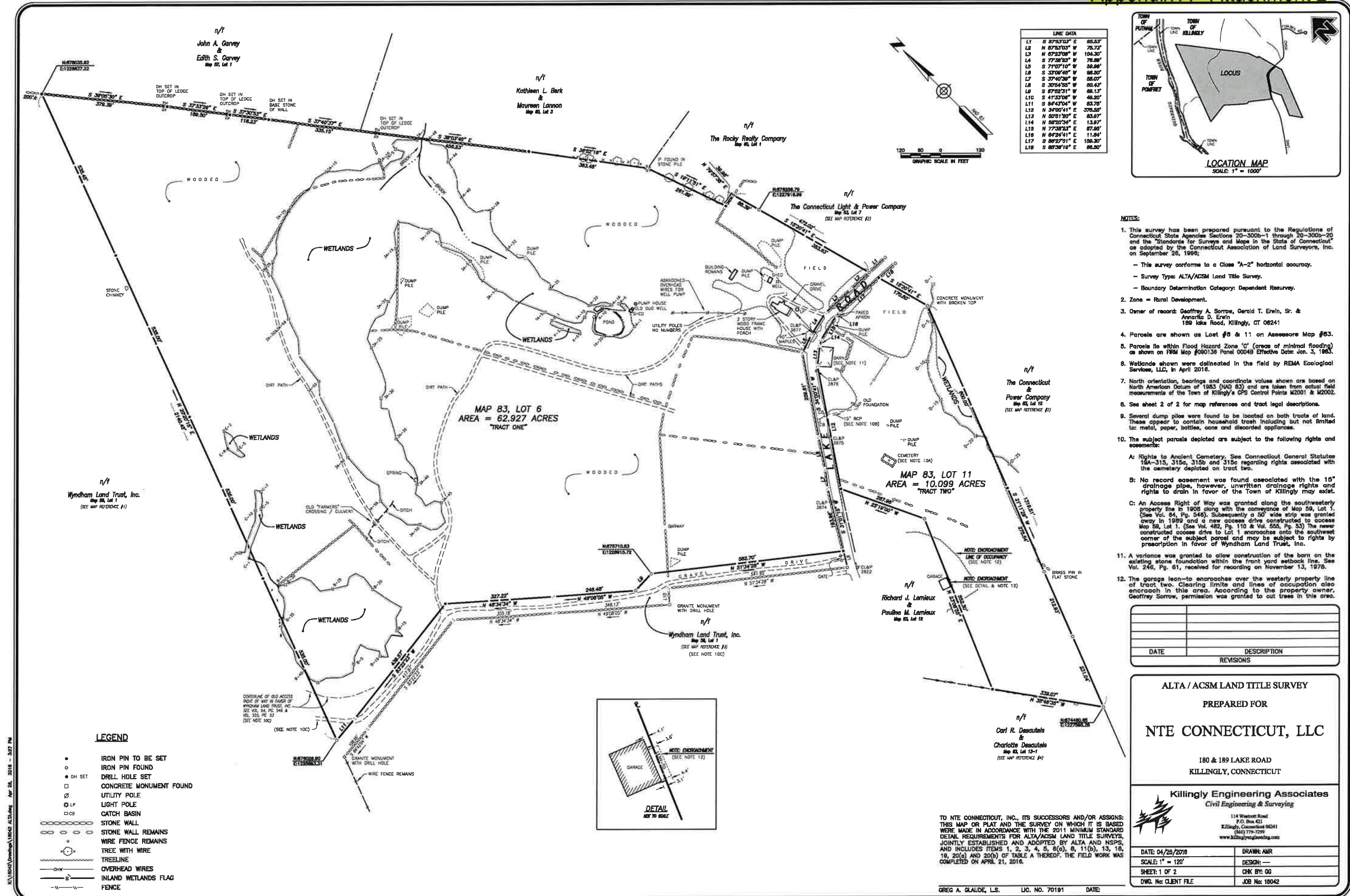
Requirement	Description
16-50j-61 (b) (1)	The edges of the proposed site and of any existing site contiguous to or crossing it, the portions of those sites owned by the company in fee and the identity of the property owners of record of the portions of those sites not owned by the company in fee;
16-50j-61 (b) (2)	The public roads and public lands crossing or adjoining the site;
16-50j-61 (b) (7) (D)	The location of any known underground utilities or resources including, but not limited to, electric lines, fuel lines, drainage systems and natural or artificial, public or private water resources, to be crossed;
15-50j-61 (c) (4)	The location of public recreation areas or activities known to exist or being proposed in or adjacent to the site, together with copies of any agreements between the company and public agencies authorizing public recreation use of the site to the extent of the company's property rights thereto;

The KEC Site is located in the northwest corner portion of the Town of Killingly and is surrounded by industrial and low-density residential uses. The KEC site is largely undeveloped. One two-story house and associated structures are located in the southeast corner of the Generating Facility Site ("GFS"). Other features on the GFS include a man-made pond, wetlands, and bedrock outcrops near the center of the parcel.

The Switchyard Site ("SYS") includes woods and an open field along Lake Road. A dilapidated barn structure, several small outbuildings, stone walls, a remnant foundation, and a small family cemetery are located on the SYS.

There are no known underground utilities or resources, nor are there public lands crossing or adjoining either the GFS or the SYS.

The Wyndham Land Trust, Inc. ("WLT") owns property to the south and west of the GFS. WLT is a private non-profit organization that provides for public access to its open space parcel adjacent to the GFS.



15:11:04:51\Drawings\180425 ALTA.dwg Apr 26, 2018 - 3:07 PM

TO NTE CONNECTICUT, INC., ITS SUCCESSORS AND/OR ASSIGNS:
 THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED
 WERE MADE IN ACCORDANCE WITH THE 2011 MINIMUM STANDARD
 DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS,
 JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS,
 AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6(a), 8, 11(b), 13, 18,
 19, 20(a) AND 20(b) OF TABLE A THEREOF. THE FIELD WORK WAS
 COMPLETED ON APRIL 21, 2018.

GREG A. GLAUDE, L.S. LIC. NO. 70191 DATE:

DATE	DESCRIPTION

ALTA / ACSM LAND TITLE SURVEY
 PREPARED FOR
NTE CONNECTICUT, LLC
 180 & 189 LAKE ROAD
 KILLINGLY, CONNECTICUT

Killingly Engineering Associates
 Civil Engineering & Surveying

114 Westcott Road
 P.O. Box 421
 Killingly, Connecticut 06241
 (860) 779-7299
 www.killinglyeng.com

DATE: 04/26/2018	DRAWN: AMR
SCALE: 1" = 120'	DESIGN: —
SHEET: 1 OF 2	CHK BY: GG
DWG. No: CLIENT FILE	JOB No: 18042

Legal Description
Assessors Map 83, Lot 8 - Tract One
189 Lake Road, Killingly, Connecticut

A certain parcel of land located on the northerly side of Lake Road in the Town of Killingly, County of Windham, State of Connecticut, which parcel is shown as Tract One on a plan entitled: "ALTA/ACSM Land Title Survey - prepared for NTE Connecticut, LLC - 180 & 189 Lake Road, Killingly, Connecticut - Scale: 1" = 120' - Date: 04/25/2016 Sheet 1 of 2 and Sheet 2 of 2 - Prepared by: Killingly Engineering Associates, LLC", said parcel being bounded and described as follows:

Beginning at an iron pin in the northerly street line of Lake Road, said iron pin being the southwest corner of herein described parcel and said iron pin being the southeast corner of land of Windham Land Trust, Inc.;

Thence N 51°34'28" W for a distance of 582.70' to an iron pin;

Thence S 87°52'31" W for a distance of 89.13' to an iron pin;

Thence N 49°08'05" W for a distance of 248.48' to a point;

Thence N 48°34'34" W for a distance of 327.22' to an iron pin;

Thence S 83°22'23" W for a distance of 439.57' to a point;

Thence S 84°43'04" W for a distance of 83.78' to an iron pin, the last six (6) courses being bounded westerly by land of said Windham Land Trust, Inc.;

Thence N 20°20'15" E for a distance of 535.00' to an iron pin;

Thence continuing N 20°20'15" E for a distance of 535.00' to an iron pin;

Thence continuing N 20°20'15" E for a distance of 535.45' to an iron pin in a stone wall, the last four (4) courses being bounded northerly by land of said Windham Land Trust, Inc.;

Thence S 39°05'30" E along a stone wall for a distance of 379.39' to a drill hole in the top of a ledge outcrop;

Thence S 37°33'28" E along a stone wall for a distance of 189.30' to drill hole in the top of a ledge outcrop;

Thence S 37°30'53" E along a stone wall for a distance of 118.23' to a drill hole in a base stone of wall;

Thence S 37°40'37" E along a stone wall for a distance of 335.15' to a drill hole in the top of a ledge outcrop, the last four (4) courses being bounded easterly partially by land of John A. Garvey & Edith S. Garvey and partially by land of Kathleen L. Berk & Moursen Lannan;

Thence S 38°03'45" E along a stone wall for a distance of 458.23' to an iron pin at the end of a stone wall;

Thence S 36°52'16" E for a distance of 363.48' to an iron pin in a stone pile, the last two (2) courses being bounded easterly by land of said Berk & Lannan;

Thence S 18°11'51" E for a distance of 281.88' to an iron pin in a stone wall;

Thence N 79°57'38" E along a stone wall for a distance of 39.98' to an iron pin, the last two (2) courses being bounded easterly and northerly by land of The Rocky Realty Company;

Thence S 15°20'41" E for a distance of 88.39' to a concrete monument;

Thence continuing S 15°20'41" E for a distance of 383.63' to an iron pin in the northerly street line of Lake Road, the last course being bounded easterly by land of The Connecticut Light & Power Company;

Thence N 87°53'03" W for a distance of 75.73' to a point;

Thence N 87°23'08" W for a distance of 104.30' to a point;

Thence S 77°38'23" W for a distance of 76.89' to a point;

Thence S 71°07'10" W for a distance of 59.99' to a point at a stone wall corner;

Thence S 34°00'41" W for a distance of 258.61' to a point;

Thence S 33°09'45" W for a distance of 98.50' to a point;

Thence S 37°40'39" W for a distance of 58.07' to a point;

Thence S 31°01'15" W for a distance of 193.88' to an iron pin and the point of beginning, the last eight (8) courses being along the northerly street line of Lake Road;

The above described parcel contains 82.827 acres and is a portion of that land acquired by Geoffrey A. Sorrow, Gerald T. Erwin, Sr. and Annarita D. Erwin from John R. Dunn, Jr. by Warranty deed dated December 29, 1989. See Vol. 482, Page 113.

Subject to: Access Right of Way in favor of the Windham Land Trust, Inc. over the northwest corner of the herein described parcel. See Vol. 84, Pg. 546 & Vol. 555, pg. 53.

Legal Description
Assessors Map 83, Lot 11 - Tract Two
180 Lake Road, Killingly, Connecticut

A certain parcel of land located on the southerly side of Lake Road in the Town of Killingly, County of Windham, State of Connecticut, which parcel is shown as Tract Two on a plan entitled: "ALTA/ACSM Land Title Survey - prepared for NTE Connecticut, LLC - 180 & 189 Lake Road, Killingly, Connecticut - Scale: 1" = 120' - Date: 04/25/2016 Sheet 1 of 2 and Sheet 2 of 2 - Prepared by: Killingly Engineering Associates, LLC", said parcel being bounded and described as follows:

Beginning at an iron pin in the southerly street line of Lake Road, said iron pin being the northeast corner of herein described parcel and said iron pin being the northwest corner of land of The Connecticut Light & Power Company;

Thence S 15°20'41" E for a distance of 170.50' to a concrete monument;

Thence S 21°11'29" W for a distance of 800.00' to an iron pin;

Thence continuing S 21°11'29" W for a distance of 275.54' to a brass pin in a flat stone;

Thence continuing S 21°11'29" W for a distance of 212.83' to a concrete monument;

Thence continuing S 21°11'29" W for a distance of 231.04' to a concrete monument, the last five (5) courses being bounded easterly by land of said Connecticut Light & Power Company;

Thence N 35°48'35" W along stone wall remains for a distance of 339.07' to an iron pin, the last course being bounded southerly by land of Carl R. Desautels & Charlotte Desautels;

Thence N 23°08'55" E for a distance of 552.30' to an iron pin;

Thence N 25°19'00" W for a distance of 267.98' to an iron pin in the northerly street line of Lake Road, the last two (2) courses being bounded westerly by land of Richard J. Lemieux & Pauline M. Lemieux;

Thence N 34°00'41" E for a distance of 375.55' to a point;

Thence N 50°51'20" E for a distance of 63.97' to a point;

Thence N 58°20'34" E for a distance of 13.97' to a point;

Thence N 77°38'23" E for a distance of 87.85' to a point;

Thence N 84°24'41" E for a distance of 11.84' to a point;

Thence S 86°27'01" E for a distance of 159.30' to an iron pin and the point of beginning, the last six (6) courses being along the northerly street line of Lake Road;

The above described parcel contains 10.099 acres and is a portion of that land acquired by Geoffrey A. Sorrow, Gerald T. Erwin, Sr. and Annarita D. Erwin from John R. Dunn, Jr. by Warranty deed dated December 29, 1989. See Vol. 482, Page 113.

Subject to any rights associated with ancient cemeteries. See Connecticut General Statutes 19A-315, 315a, 315b and 315c.

Subject to possible rights in favor of the Town of Killingly for the existing drainage pipe from Lake Road.

NOTES:

- This survey has been prepared pursuant to the Regulations of Connecticut State Agencies Sections 25-300a-1 through 25-300b-20 and the "Standards for Surveys and Maps in the State of Connecticut" as adopted by the Connecticut Association of Land Surveyors, Inc. on September 26, 1998.
 - This survey conforms to a Class "A-2" horizontal accuracy.
 - Survey Type: ALTA/ACSM Land Title Survey.
 - Boundary Determination Category: Dependent Re-survey.

MAP REFERENCES:

- "Plan of Partition of Land - of - Thomas Dunn - Killingly, Conn. on Quinebaug River - Scale: 200 ft. per in. - Date: Sept. 1907 Prepared by: Daniel F. Crowley." On file as Map #302 in the Killingly Land Records.
- "The Connecticut Light & Power Company - Berlin, Connecticut Job: Card Street to Rhode Island Line - Title: Land to be Acquired from James J. Byrnes - Killingly, Conn. - Scale: 1" = 200' - Date: 5-20-89 - Revised to: 7-21-89 - V.S.R.5-10-F." On file as Map #608 in the Killingly Land Records.
- "Plan of Access Drive Owned by - John R. Dunn, Jr. - and - Geoffrey A. Sorrow - To be Conveyed to - John R. Dunn, Jr. - Lake Road, Killingly, Connecticut - Scale: 1" = 100' - Date: December 19, 1989 Prepared by: Albert L. Fitzback, L.L.S." On file as Map #HF134B in the Killingly Land Records.
- "Perimeter Survey/Compilation Plan - Prepared for - T&B Building Company, LLC / Richard & Pauline Lemieux - 134 & 154 Lake Street Dayville, Connecticut - Scale: 1" = 40' - Date: March 2013 Sheet No. 1 of X - Prepared by: Archer Surveying, LLC." On file as Map #6598 in the Killingly Land Records.

DATE	DESCRIPTION
	REVISIONS

ALTA / ACSM LAND TITLE SURVEY
PREPARED FOR
NTE CONNECTICUT, LLC
180 & 189 LAKE ROAD
KILLINGLY, CONNECTICUT

Killingly Engineering Associates
Civil Engineering & Surveying
114 Weston Road
P.O. Box 421
Killingly, Connecticut 06241
(860) 779-7299
www.killinglyeng.com

DATE: 04/25/2016	DRAWN: AMR
SCALE: NOT TO SCALE	DESIGN: —
SHEET: 2 OF 2	CHK BY: GG
DWG. No: CLIENT FILE	JOB No: 18042

TO NTE CONNECTICUT, INC., ITS SUCCESSORS AND/OR ASSIGNS:
THIS MAP OR PLAN AND THE SURVEY ON WHICH IT IS BASED
WERE MADE IN ACCORDANCE WITH THE 2011 MINIMUM STANDARD
DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS,
JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS,
AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6(a), 8, 11(b), 13, 16,
19, 20(a) AND 20(b) OF TABLE A THEREOF. THE FIELD WORK WAS
COMPLETED ON APRIL 21, 2016.

GREG A. GLAUDE, L.S. LIC. NO. 70191 DATE:

Attachment 3 – Adjoining Properties Map

In accordance with RCSA 16-50j-60 through 16-50j-62, NTE hereby submits the KEC Adjoining Properties Map, which includes the following features as required under the applicable section of RCSA 16-50j-61.

Requirement	Description
16-50j-61 (b) (7) (E)	Residences or business within or adjoining the site that may be disrupted during the construction process;

As shown in the Adjoining Properties Map, the KEC Site is adjoined by several properties with various uses as described below.

- Northeast – Edith Garvey, residential use
- Northeast – Maureen Lannon & Kathleen Berk, residential use
- East – Rocky River Realty, subsidiary of Eversource Energy, transmission line right-of-way
- Southeast – Eversource Energy, transmission line right-of-way
- South and Southwest – Pauline Lemieux, residential use
- South and Southwest – Carl & Charlotte Desautels, residential use
- West – WLT, private non-profit organization that provides for public access to its open space parcel

The two adjoining properties to the northeast (to the GFS) include residential uses which are separated from the KEC Site by the Eversource transmission line right-of-way. These parcels are currently subjected to industrial traffic from the nearby industrial park, with business including Unfi and the Rite Aid Distribution center located directly across Lake Road from these parcels.

The two adjoining properties to the south/southwest (to the SYS) include residential uses. As described in Appendix C of this D&M Plan, vehicles other than passenger vehicles will be prohibited from traversing Lake Road to or from the site via Route 101 (Hartford Pike), which will minimize disruption to these residences during the construction process.



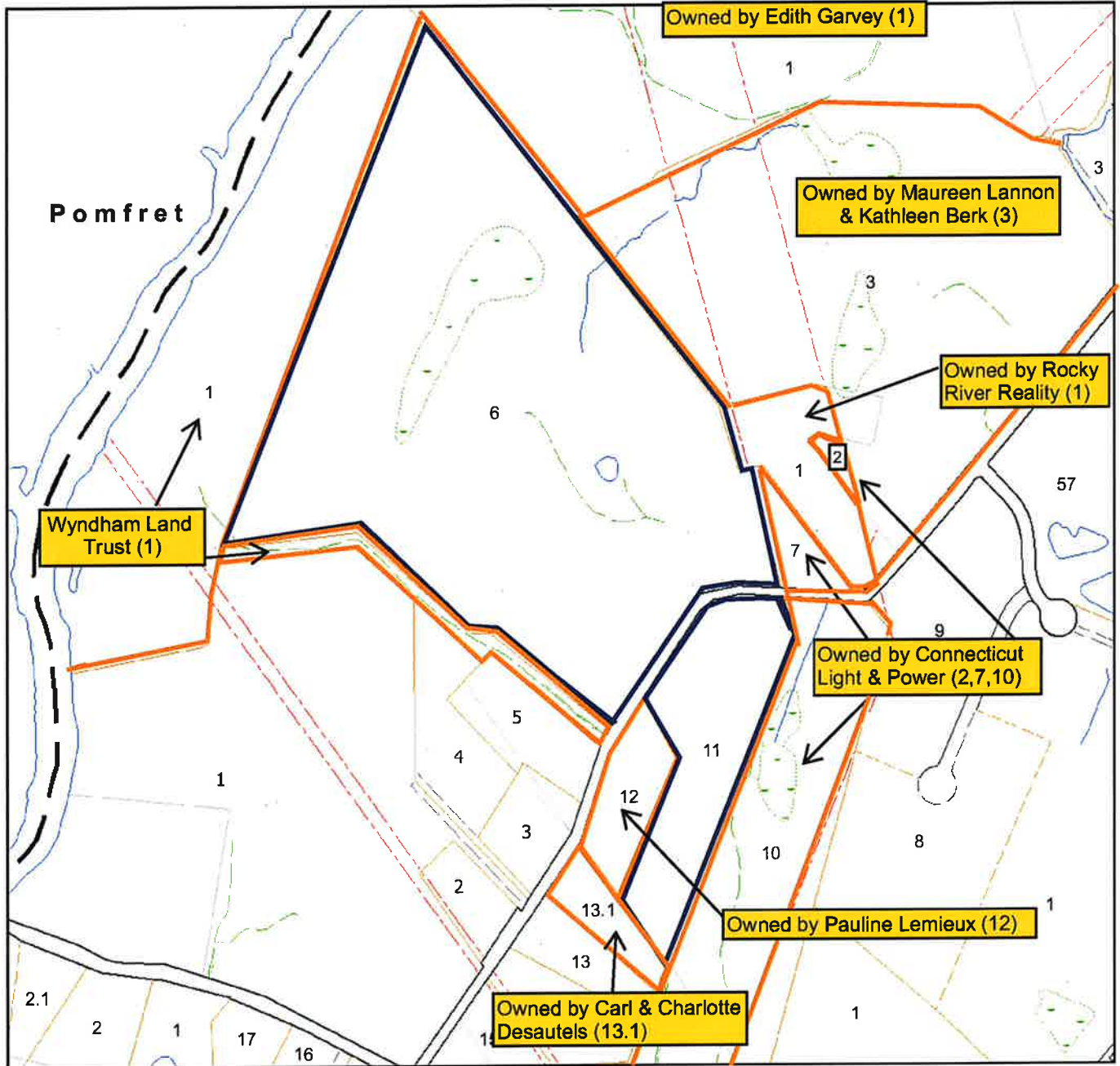
Killingly, CT



July 2019

1 inch = 549 Feet

www.cai-tech.com



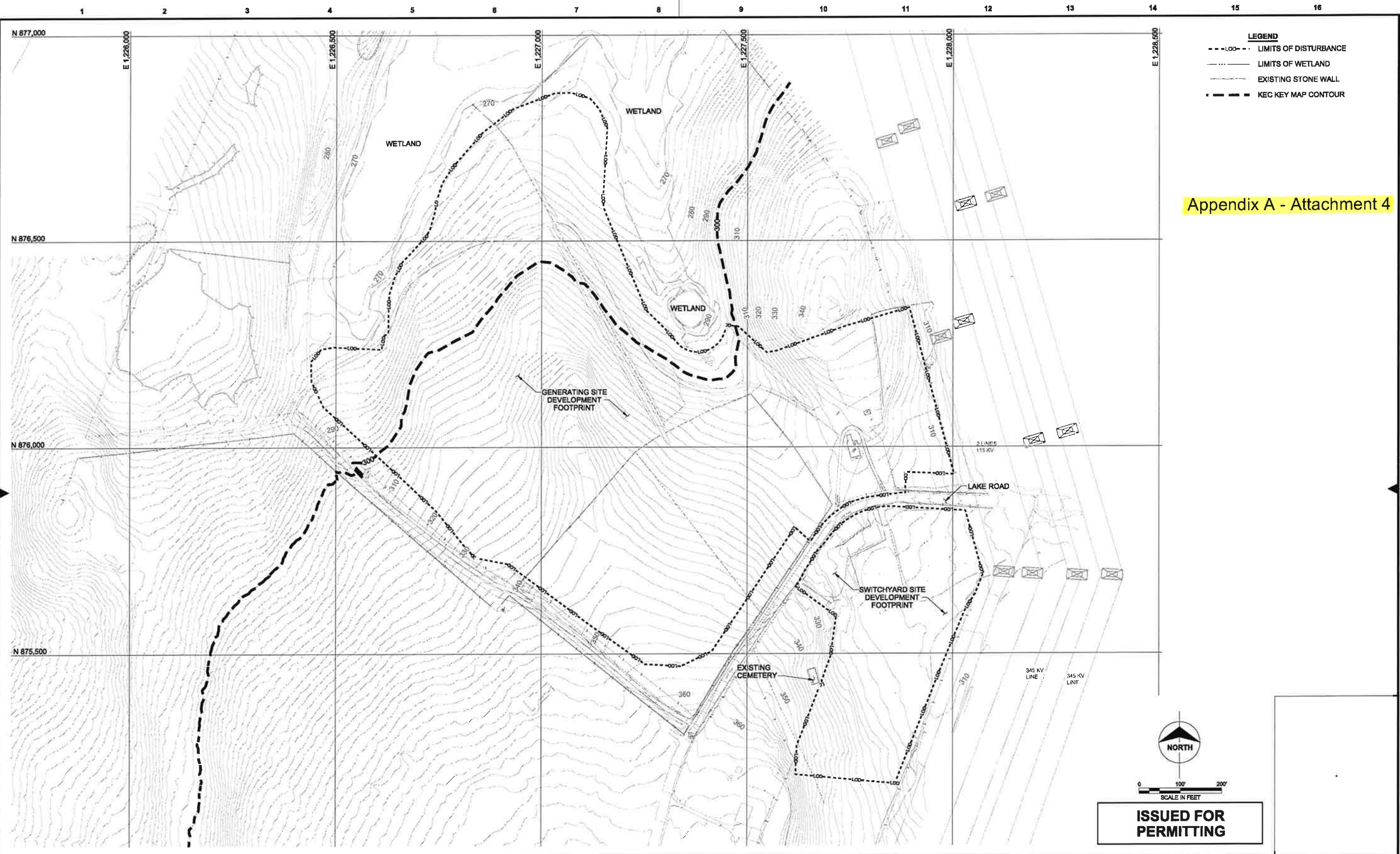
-  **KEC Facility Site and Switchyard**
-  **Contiguous Properties to Facility**

Data shown on this map is provided for planning and informational purposes only. The municipality and CAI Technologies are not responsible for any use for other purposes or misuse or misrepresentation of this map.

Attachment 4 – Existing Topography

In accordance with RCSA 16-50j-60 through 16-50j-62, NTE hereby submits the Existing Topography drawing, which includes the following features as required under the applicable section of RCSA 16-50j-61.

Requirement	Description
16-50j-61 (b) (3)	The approximate location along the site of each 50-foot contour line shown on the key map;



Appendix A - Attachment 4


 SCALE IN FEET
 0 100' 200'
ISSUED FOR PERMITTING

COPYRIGHT © 2018 BURNS & MCDONNELL ENGINEERING COMPANY, INC.

no.	date	by	ckd	description	no.	date	by	ckd	description
B	07/29/19	KJE	-	ISSUED FOR PERMITTING					
A	07/23/19	KJE	-	ISSUED FOR REVIEW					


**BURNS
MCDONNELL**
 9400 WARD PARKWAY
 KANSAS CITY, MO 64114
 816-333-8400
 FIRM LICENSE NO. PEC 000341
 designed: K. ENGHOLM detailed: S. NICHOLS

KILLINGLY ENERGY CENTER
 1X1 COMBINED CYCLE - MHPs
 WINDHAM COUNTY, CONNECTICUT

NTE CONNECTICUT, LLC EXISTING CONDITIONS	
project	contract
111869	
drawing	rev.
CG342	B
sheet 1 of 1	sheets
file 111869 CG342 DGN	

Appendix B

Attachment 1 – CG341 – Phase 1 Site Development Plan

Attachment 2 – CG340 – Grading Comparison Plan

In accordance with RCSA 16-50j-60 through 16-50j-62, and the CECPN Findings of Fact for Docket No. 470b, NTE hereby submits the Phase 1 Site Development and Grading Comparison Plan drawings, which include the following features as required under the applicable sections of RCSA 16-50j-61 and the CECPN Findings of Fact.

Requirement	Description
16-50j-61 (b) (6)	The edges of existing and proposed clearing areas, the type of proposed clearing along each part of the site, and the location and specifies identification of vegetation that would remain for aesthetic and wildlife value;
16-50j-61 (b) (7) (A)	Wetland and watercourse areas regulated under Chapter 440 of the Connecticut General Statutes, and any locations where construction may create drainage problems;
16-50j-61 (b) (7) (B)	Areas of high erosion potential;
16-50j-61 (b) (7) (C)	Any known critical habitats or areas identified as having rare, endangered, threatened or special concern plant or animal species listed by federal and state governmental agencies;
16-50j-61 (b) (7) (F)	Significant environmental, historic and ecological features, including, but not limited to significantly large or old trees, buildings, monuments, stone walls, or features of local interest
16-50j-61 (c) (1)	Plans, if any, to salvage marketable timber, restore habitat and to maintain snag trees within or adjoining the site;
16-50j-61 (c) (3)	Plans for the method and type of vegetative clearing and maintenance to be used within or adjacent to the site;
16-50j-61 (c) (5)	Plans for the ultimate disposal of excess excavated material, stump removal, and periodic maintenance of the site;
16-50j-61 (c) (6)	Locations where blasting is anticipated;
CECPN Req. (a)	Final site plan (Phase 1 activities only);
CECPN Req. (q)	Fence design and other site security measures (Phase 1 activities only);

Vegetative Clearing and Maintenance, Tree Salvage (16-50j-61 (c) (1), 16-50j-61 (c) (3))

In the Phase 1 D&M Plan, portions of the GFS and the SYS will be cleared of vegetation, within the limits of disturbance shown on drawing CG341, to allow for installation of soil erosion and sedimentation control measures and rough grading. The majority of the KEC Site is populated with native vegetation, including hardwood and coniferous trees, in addition to various shrubs and grasses.

The clearing activities will begin along the site perimeter, in order to allow for installation of soil erosion and sedimentation controls and fencing to surround certain work areas. The control requirements to be implemented during Phase 1 can be found in Appendix D. Following the establishment of the perimeter controls, the KEC entrance area will be cleared where the construction facilities (e.g., trailers, guard shack, etc.) and parking will be located. These facilities, as well as the site construction entrance off Lake Road, will be established in approximately the identical area to where the existing residence is located. Special measures to prevent tracking of sediment from the site will be established at the construction entrance.

Following completion of the erosion controls, perimeter clearing and initial site security measures, clearing will commence within the central area of the GFS, where the main power block will be located. The SYS will be cleared using a similar approach; activities on the SYS will occur concurrently with activities on the GFS.

Heavy equipment will be used to clear the site. As smaller trees are cleared, they will be ground into mulch and either hauled off-site or used on-site for ground stabilization and erosion & sedimentation control. The larger trees will be cut, de-limbed and salvaged for marketable timber. The larger trees will be stockpiled on-site. As the stockpiles accumulate, the marketable timber will be loaded onto trucks and hauled off.

With the exception of the small cemetery on the SYS, the existing structures and foundations on the KEC Site will be removed. Fencing will be installed to demarcate the area within 50 feet of the cemetery; clearing within this area will be done by hand.

A majority of the clearing will be done by mechanical means; however, any clearing within 50 feet of streams and wetlands will be completed by hand. No clearing will occur within wetlands, other than the small area of wetland fill on the SYS, as authorized by the CSC in its Docket No. 470B approval. Additionally, no tree clearing will occur in the months of June and July in order to avoid the pup season for listed bat species. If work will occur between April 1 and November 1, additional turtle protection measures will be implemented, as further detailed in Appendix E.

In total, within the limits of disturbance, approximately 23 acres will be cleared on the GFS and 2 acres will be cleared on the SYS. In comparison to the originally proposed clearing area, the amount to be cleared on the SYS was increased by 0.5 acres; this is due to additional grading necessary as the design has progressed from conceptual to construction ready. The amount to be cleared on the GFS remains consistent with the original application material. Efforts have been made to minimize impacts to vegetated areas to the extent practicable. Those areas to be disturbed will be temporarily and/or permanently stabilized through revegetation practices as described further in the Erosion & Sedimentation Control plans and described in Appendix D of this document.

Areas of the GFS and SYS that will be used for construction laydown and staging will be re-established as green areas following completion of construction, with portions of these areas potentially used as overflow or emergency parking. These details will be included in the Phase 3 D&M Plan filing.

There are approximately 0.3 acres of unavoidable wetland impact located on the SYS, which will be offset with wetland replication, a conservation easement, and restoration measures following completion of construction; additional details will be provided in the Phase 3 D&M Plan filing.

Special upland habitat, encompassing approximately 3,700 square feet on the GFS, will also be created following completion of construction to attract Lepidopteran species (i.e., butterflies and moths). As per guidance from the CTDEEP National Diversity Database Program, the existing soils in this area are suitable as-is and will be minimally disturbed during construction. The area identified will be demarcated with construction fencing to separate it from the construction work area in order to minimize the potential for compaction due to heavy equipment travel. Additional details regarding the enhancement of this area will be provided in the Phase 3 D&M Plan filing.

Disposal of Excess Excavated Material (16-50j-61 (c) (5))

Whenever new forest edges are created, such as upgradient and to the southeast of Wetland A3, invasive species already in the seed bank have the potential to flourish, and encroachment can extend 40 to 50 feet from the new edge. Therefore, an Invasive Plant Control Plan will be implemented to eradicate and control invasive species for a period of 5 years post-construction, within 50 feet of the new forest edge. Details of this plan will be addressed in the Phase 3 D&M Plan. Additionally, a moderately sized patch of the invasive Japanese knotweed (*Fallopia japonica*) on the SYS, and at least an additional 15 feet surrounding it, will be excavated to a depth of 6 to 10 feet, depending on the results of an exploratory test pit, and will be properly disposed of through burial or at a landfill.

As part of vegetation removal, stumps from felled trees will be uprooted and removed from the site; no stumps will be buried onsite. Following vegetation clearing and prior to grading and blasting, the topsoil will be stripped and removed from designated construction areas. The stockpiled topsoil will be managed as per the Erosion & Sediment Control Plans, located in Appendix D of this document, to prevent sedimentation offsite or into the active construction areas.

Grading will commence once the topsoil has been removed. The Grading Plan for the Project has been developed to minimize the total net import or export of material. To achieve this, excavated material will be reused onsite as fill wherever possible. Import or export of limited quantities of structural fill may be required if adequate material is not present onsite. Soils or material unsuitable for use onsite will be recycled offsite for landscaping or non-engineering grade fill. Any excess material not suitable for use onsite will be disposed of in accordance with local, state, and federal regulations and requirements.

In accordance with CSC Finding of Fact #248 (Town of Killingly Regulate and Restrict Order), any soil material brought to the site and used on KEC will be tested at a frequency of 1 sample per 1,000 cubic yards for all constituents necessary to determine compliance with the CT DEEP standards for Residential Direct Exposure and GA Pollutant Mobility Criteria.

Anticipated Blasting Areas (16-50j-61 (c) (6))

Following the site clearing activities and establishment of Erosion & Sedimentation Control measures as described above, blasting operations will occur on-site. The areas that will require blasting are identified on Attachment 1 (Site Development Plan) of this Appendix.

A detailed Blasting Plan will be developed following selection of a blasting contractor. The plan will be provided to the CSC and the Town of Killingly prior to the start of blasting activities and will outline all detailed procedures and protection to be implemented prior to, during and following blasting operations. Notifications prior to blasting activities will take place through weekly reports provided to the Town of Killingly and other means; a community hotline will be setup and communicated to residences in the vicinity prior to start of work. The line will have a dedicated answering service and calls will be addressed by the on-site project team as they occur.

Although geotechnical and topographic information indicate that the identified areas will require blasting, efforts will be made as field activities to minimize the amount of blasting needed onsite based on actual field conditions. Blasting will only occur between daytime hours of 7:00 AM and 9:00 AM. Blasting will primarily take place in the central/south-central area of the GFS.

As the rock is blasted, the civil contractor will move the blasted rock to a dedicated rock processing area. At this area, the rock will be crushed and processed to use as fill material across the site. Based upon field activities, the engineer and civil contractor will make a determination on the suitability of the blasted rock to use as fill. If certain rock is unusable it will be hauled offsite, and engineered fill will be brought in, tested in accordance with CSC Finding of Fact #248, and used as replacement.

In accordance with CSC Finding of Fact #251 (Town of Killingly Regulate and Restrict Order), a detailed plan for dust control and management for site grading and on-site soil/rock processing will be implemented. The plan will include provisions for water supply, water tankers, sprinklers and equipment water sprays, and will be provided to the Town of Killingly prior to the commencement of site clearing activities, following selection of a civil subcontractor.

In accordance with CSC Finding of Fact #252 (Town of Killingly Regulate and Restrict Order), KEC's civil construction will be performed in compliance with the Town of Killingly's Earth Filling and Excavation Regulations (Section 560 – Town Zoning Regulations).

Phase 1 Fence Design (CECPN req (q))

Work covered under Phase 1 will require security fencing to be established, initially on the south side of the GFS and at the site entrance. Turn styles and a guard shack will also be established at the site entrance. As the civil construction progresses, additional fence will be installed to maintain a larger secure area.

Certain activities must take place prior to the establishment of the security fencing around the perimeter of the KEC Site. The installation of the security and perimeter fencing will be phased such that, as civil activities progress and rough grades are established, the security fencing will be installed around the perimeter. As a result, certain work will take place prior to the full perimeter security fence being established; in these scenarios the contractor will employ dedicated spotters and safety personnel around the perimeter to maintain the safety and security of the site until the full perimeter security fence is established.

Additional fencing and security measures will be provided in both Phases 2 and 3 of the D&M Plan. The fence design for the SYS will be provided in Eversource's submittal of their Petition for Declaratory Ruling to the CSC for the construction design of the Eversource Switchyard.

In accordance with CSC Finding of Fact #229 (Town of Killingly Regulate and Restrict Order), the entire site during the construction phase, and after, shall be surrounded with security fencing. The security fencing will be gated to protect the public. As noted above, Phase 1 activities will incorporate a lesser amount of fencing that will be increased in association with relevant activities.

Improvements to Site Grading (CECPN req (a) – Phase 1 only)

As the design of KEC progressed from a preliminary to final construction-ready plan, several improvements have been incorporated into the civil site design resulting in improvements to the grading plan and Stormwater Pollution Control Plan ("SWPCP"). A comparison between the preliminary design and final construction-ready design is included and shown on Attachment 2 (Grading Comparison Plan) of this Appendix.

As shown in the Grading Comparison Plan, the construction-ready Grading Design has closely followed the conceptual and preliminary designs presented to the CSC during Docket 470/470B proceedings. During detailed design, it was discovered that the sizing of the stormwater retention ponds on the north side of the GFS, which discharge to Wetland A3, resulted in peak discharge rates in excess of the existing conditions.

To reduce the peak-discharge rates to be identical with the existing conditions, the footprint of the proposed retention ponds was increased to provide additional infiltration. With the sensitivity of the proximity to wetlands a primary concern, revised grading for the ponds and infiltration trenches were modified in such a manner to avoid the wetland areas to the furthest extent possible.

The revised Grading Design continues to fully comply with CSC Finding of Fact #195 (Town of Killingly Regulate and Restrict Order), which required a minimum 25-foot no-disturbance buffer from any wetland. The revised grading as a result of the re-sized retention ponds encroaches no closer than 33 feet from Wetland A3. All other aspects of the orders, such as the crushed-stone trench between the retention ponds and Wetlands A1/A3, have been incorporated into the construction design.

The remainder of the grading surrounding the generating facility generally remains unchanged from the design contemplated and presented to the CSC during proceedings for Docket 470/470B. However, the cut slope on the south side of the GFS (closest to Lake Road) has been relocated to expand and provide a minimum 50-foot buffer along the north side of Lake Road. This change results in increased compliance with several CSC Findings of Fact, such as #260 (Town of Killingly Regulate and Restrict Orders), which required that buffer zones be maximized to the extent practical.

The grading design of the SYS generally remains unchanged from the design contemplated and presented to the CSC during proceedings for Docket 470/470B; this represents a conceptual or preliminary design. The final grading design for the SYS will be provided to the council by Eversource in their Petition for Declaratory Ruling for their Switchyard.

Vernal Pool Protection

As discussed above, the final design of grading for the stormwater management system has resulted in a slightly greater proximity to Wetland B and, thus, Vernal Pool B and into its associated Critical Terrestrial Habitat area. Preliminary design had indicated that all work would be at least 430 feet from the edge of Vernal Pool B; with the final grading design, the work will be 415 feet from the edge of Vernal Pool B at its closest point.

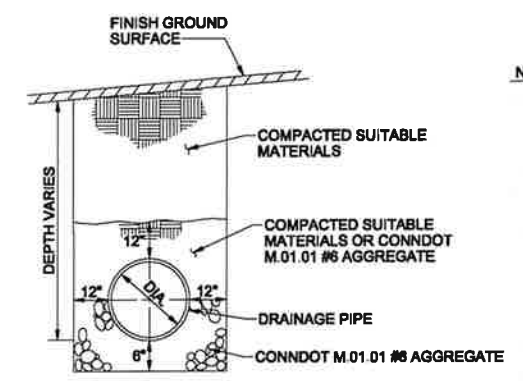
Although 15 feet closer than reflected in the preliminary design, the considerable distance will continue to allow for good separation between Vernal Pool B and the KEC construction. No impact will occur within the 100-foot Vernal Pool Envelope. Because the additional grading associated with final design of the retention basin adds only approximately 0.12 acres of additional work within the 750-foot Critical Terrestrial Habitat (CTH) area, the percentage of CTH remains well below the 25% impact threshold considered to preserve habitat value for vernal pool species, as shown in the table below.

Vernal Pool in Wetland B				
<i>Based on 43.1 acres in the Critical Terrestrial Habitat</i>				
	Developed/Unavailable		Undeveloped/Available	
	Acres	Percent	Acres	Percent
Existing	3.3	7.7	39.8	92.3
Proposed	5.9	13.7	37.2	86.3
<i>Based on 39.8 acres currently accessible in the Critical Terrestrial Habitat</i>				
	Developed		Undeveloped	
	Acres	Percent	Acres	Percent
Existing	0	0	39.8	100
Proposed	2.6	6.5	37.2	93.5



Appendix B - Attachment 1

NOTES:
 1. ALL AREAS WITHIN THE LIMITS OF DISTURBANCE WILL BE CLEARED UNLESS NOTED OTHERWISE



DRAINAGE PIPE INSTALLATION DETAIL
 NOT TO SCALE

NORTH

SCALE IN FEET
 0 100 200

ISSUED FOR PERMITTING

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no.	date	by	ctd	description	no.	date	by	ctd	description
B	07/29/19	KJE	-	ISSUED FOR PERMITTING					
A	07/16/19	KJE	-	ISSUED FOR REVIEW					

BURNS & MCDONNELL

9400 WARD PARKWAY
 KANSAS CITY, MO 64114
 816-333-9400
 FIRM LICENSE NO. PEC 000341

designed: K. ENGHOLM detailed: S. NICHOLS

NTE CONNECTICUT, LLC
 SITE ARRANGEMENT
 PHASE 1 DEVELOPMENT PLAN

project: 111889 contract: _____

drawing: **CG341** rev. **B**

sheet 1 of 1 sheets

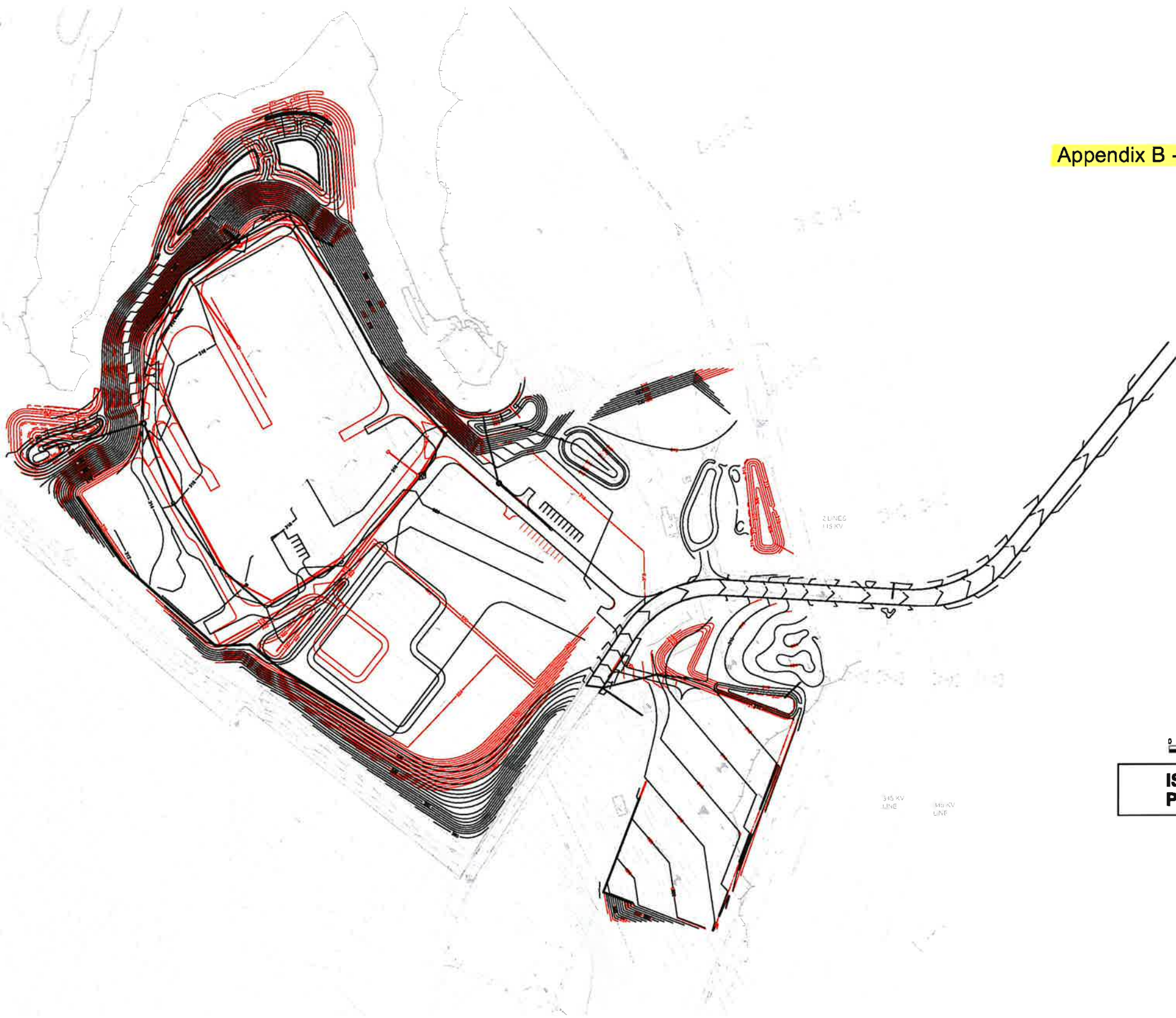
file: 111889 CG341.DGN



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

KEY PLAN:
 — PROPOSED DESIGN
 — ORIGINAL DESIGN
 - - - EXISTING WETLAND

Appendix B - Attachment 2

Microstation
 Scale for Drafting
 Inches




 NORTH

 SCALE IN FEET
ISSUED FOR PERMITTING

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no.	date	by	ckd	description
B	07/29/19	KJE	-	ISSUED FOR PERMITTING
A	07/16/19	KJE	-	ISSUED FOR REVIEW


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 KANSAS CITY, MO 64114
 816-333-9400
 FIRM LICENSE NO. PEC 000341
 designed: K. ENGHOLM detailed: S. NICHOLS

KILLINGLY ENERGY CENTER
 1X1 COMBINED CYCLE - MHP3
 WINDHAM COUNTY, CONNECTICUT

NTE CONNECTICUT, LLC
 GRADING COMPARISON PLAN
 project: 111889 contract:
 drawing: **CG340** rev. **B**
 sheet 1 of 1 sheets
 file: 111889 CG340 DGN

Appendix C

Attachment 1 – Construction Traffic Route Plan

In accordance with RCSA 16-50j-60 through 16-50j-62, and the CECPN Findings of Fact for Docket No. 470b, NTE hereby submits the Construction Traffic Route Plan drawing, which include the following features as required under the applicable section of RCSA 16-50j-61.

Requirement	Description
16-50j-61 (b) (5)	The probable points of access to the site, and the route and likely nature of the access ways, including alternatives or options to the probable points of access and access ways;

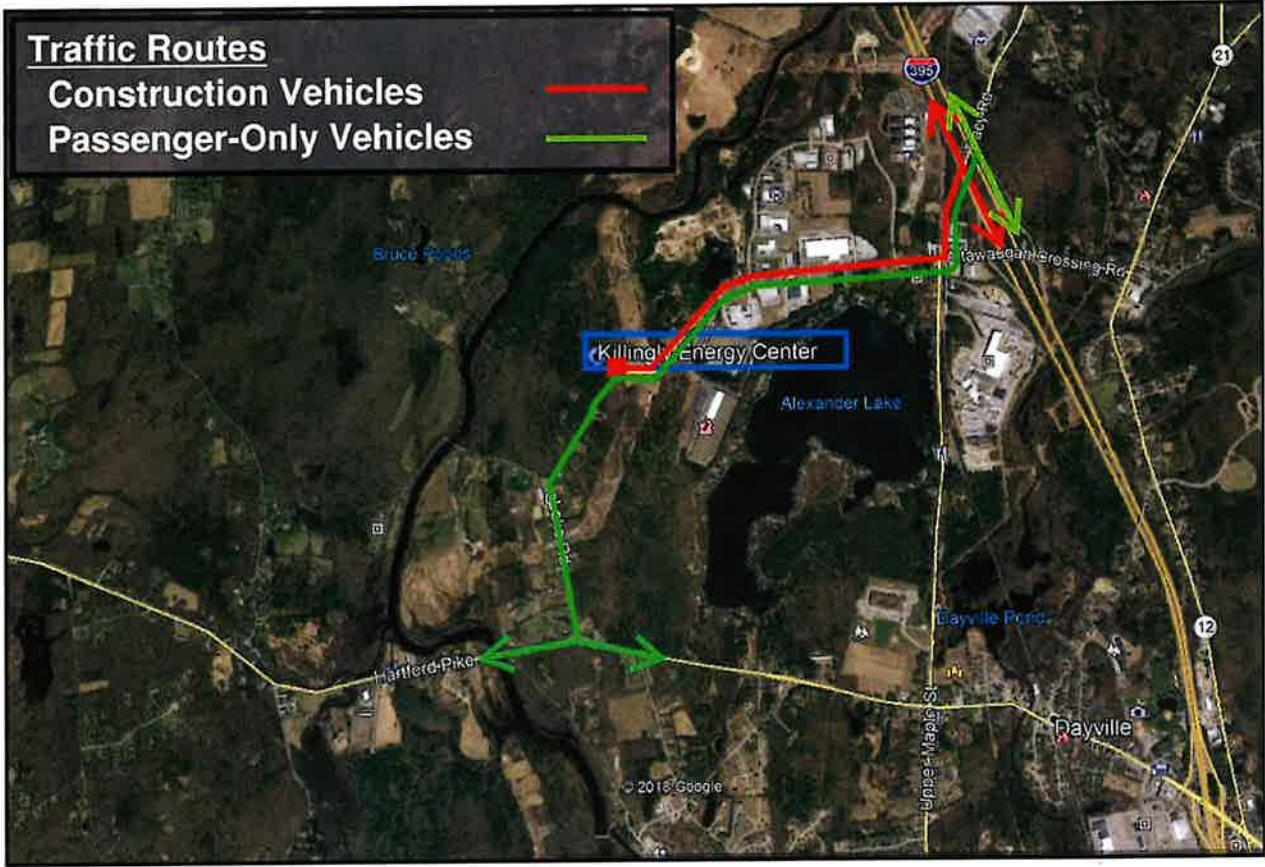
Construction vehicles are separated into two main categories:

1. Passenger vehicles
2. Heavy equipment, deliveries

As shown on the Traffic Route Plan drawing, and consistent with CSC Finding of Fact #215 (Town of Killingly Regulate and Restrict Order), passenger vehicles will be permitted to access the site by traveling north on Lake Road via Route 101 (Hartford Pike), or south on Lake Road via Interstate Route 395 ("I-395").

Truck traffic consisting of heavy equipment or deliveries will not be permitted to access the site by traveling north on Lake Road via Route 101 (Hartford Pike) and will be prohibited from leaving the site traveling south on Lake Road to Route 101. Subcontractors will be instructed of this requirement and appropriate actions will be implemented if any violations occur. Signage indicating "No Truck Traffic" will be posted immediately west of the site access drive. All truck traffic will be directed to I-395.

Construction Traffic Route Plan



Appendix D

Attachment 1 – Erosion & Sedimentation Control Plan

In accordance with RCSA 16-50j-60 through 16-50j-62, NTE hereby submits the Erosion & Sediment Control Plan, which includes the following features as required under the applicable section of RCSA 16-50j-61.

Requirement	Description
16-50j-61 (c) (2) (A)	Construction techniques at wetland and watercourse crossings;
16-50j-61 (c) (2) (B)	Sedimentation and erosion control and rehabilitation procedures, consistent with the Connecticut Guidelines for Soil Erosion and Sediment Controls, as updated and amended, for areas of high erosion potential;
CECPN Req. (o)	Dewatering Plan

Construction at KEC will be conducted in accordance with the 2002 CT DEEP Guidelines for Soil Erosion and Sediment Control. These guidelines are incorporated into the attached Erosion and Sediment Control Plans, which details the specific Best Management Practices ("BMP") to be used, the locations in which they are to be implemented, and how they are to be maintained. No work within wetlands or watercourses will occur other than the small area of unavoidable wetland impact on the SYS. The BMPs specify measures that will be used when working within 50 feet of wetlands or watercourses to keep sediment from impacting those resources.

The design of the facility has incorporated methods to minimize the amount of ground disturbance required to successfully and safely complete the facility. As detailed in the attachments, several steps will be taken to reduce the potential for erosion and movement of sediment outside the Project's limits of disturbance. These will include, but not be limited to the following:

- Silt fence, haybales, temporary sediment traps and basins, diversions, and stone or wood chip dikes;
- Anti-tracking construction entrances;
- Turf reinforcement matting; and
- Graded crushed stone or rolled gravel surfaces in staging and laydown areas.

Temporary and permanent stabilization measures are to be implemented following the methods and timeframes prescribed in the attachments. Should these measures be deemed inadequate, additional controls will be implemented.

A SWPCP is undergoing independent third-party review and will be submitted to CT DEEP in parallel to this D&M Plan as required through DEEP-WPED-GP-15. Once this permit application is approved by CT DEEP this will be supplied to the CSC and the Town of Killingly.

If dewatering is required, a pumping outlet basin shall be constructed and utilized as detailed on Drawing CG332. The pumping outlet basing will be located such that flow leaving the outlet basin is routed through a temporary sediment trap or basin.

LEGEND

- LOD --- LIMITS OF DISTURBANCE
- LIMITS OF WETLAND
- ▲ GEOTEXTILE SILT FENCE
- HAYBALE BARRIER
- ▨ RIPRAP
- ▬ RETAINING WALL
- ▬ DRAINAGE PIPE
- CATCH BASIN
- MANHOLE

MEASURE	KEY	DESCRIPTION
PERMANENT SEEDING	(PS)	ESTABLISHMENT OF PERMANENT STAND OF GRASS AND/OR LEGUMES BY SEEDING AND MULCHING EXPOSED SOILS WITH A SEED MIXTURE APPROPRIATE FOR LONG TERM STABILIZATION. SEE EROSION CONTROL NARRATIVE FOR SEED MIX REQUIREMENTS.
MULCH FOR SEED	(MS)	APPLICATION OF A MULCH THAT WILL PROTECT THE SOIL SURFACE ON A TEMPORARY BASIS AND PROMOTE THE ESTABLISHMENT OF TEMPORARY OR PERMANENT SEEDINGS.
CONSTRUCTION ENTRANCE	(CE)	A STONE STABILIZED PAD SOMETIMES ASSOCIATED WITH A MUD RACK, AUTOMOTIVE SPRAY, OR OTHER MEASURES LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON A CONSTRUCTION SITE.
GEOTEXTILE SILT FENCE	(GSF)	A TEMPORARY SEDIMENT BARRIER CONSISTING OF A GEOTEXTILE FABRIC PULLED TAUT AND ATTACHED TO SUPPORTING POSTS AND ENTRENCHED.
STONE CHECK DAM	(SCD)	A TEMPORARY OR PERMANENT STONE DAM PLACED ACROSS A DRAINAGEWAY.
HAYBALE BARRIER	(HB)	A TEMPORARY SEDIMENT BARRIER CONSISTING OF A ROW OF ENTRENCHED AND ANCHORED BALES OF HAY OR STRAW.
WATER BAR	(WB)	A CHANNEL WITH A SUPPORTING BERM ON THE DOWN SLOPE SIDE CONSTRUCTED ACROSS A CONSTRUCTION ACCESS ROAD, DRIVEWAY, LOG ROAD OR OTHER ACCESS WAY.
TEMPORARY DIVERSION	(TD)	A TEMPORARY CHANNEL WITH A BERM OF TAMPED OR COMPACTED SOIL PLACED IN SUCH A MANNER SO AS TO DIVERT FLOWS.
TEMPORARY PIPE SLOPE DRAIN	(TSD)	A FLEXIBLE OF RIGID PIPE USED TO CONDUCT WATER FROM THE TOP OF A SLOPE TO THE TOE OF THE SLOPE.
TEMPORARY SEDIMENT TRAP	(TST)	A TEMPORARY PONDING AREA WITH A STONE OUTLET FORMED BY EXCAVATION AND/OR CONSTRUCTING AN EARTHEN EMBANKMENT.
DETENTION BASIN	(DB)	AN IMPOUNDMENT MADE BY CONSTRUCTING A DAM OR AN EMBANKMENT (EMBANKMENT DETENTION BASIN) OR BY EXCAVATING A PIT OR DUGOUT (EXCAVATED DETENTION BASIN).
LEVEL SPREADER	(LS)	AN OUTLET FOR DIVERSIONS AND OTHER WATER CONVEYENCES CONSISTING OF AN EXCAVATED DEPRESSION WITH A BROAD STABLE POINT OF DISCHARGE CONSTRUCTED AT ZERO GRADE ACROSS A SLOPE.
PERMANENT TURF REINFORCEMENT MAT	(TRM)	A MANUFACTURED MAT COMPOSED OF NON-BIODEGRADABLE POLYMER OR SYNTHETIC FIBERS MECHANICALLY, STRUCTURALLY, OR CHEMICALLY BOUND TO FORM A CONTINUOUS MATRIX.

NEW ENGLAND EROSION CONTROL/RESTORATION MIX (TEMPORARY SEEDING)

THE NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DRY SITES PROVIDES AN APPROPRIATE SELECTION OF NATIVE AND NATURALIZED GRASSES TO ENSURE THAT DRY AND RECENTLY DISTURBED SITES WILL BE QUICKLY REVEGETATED AND THE SOIL SURFACE STABILIZED. IT IS AN APPROPRIATE SEED MIX FOR ROAD CUTS, PIPELINES, STEEP SLOPES, AND AREAS REQUIRING QUICK COVER DURING THE ECOLOGICAL RESTORATION PROCESS. THE MIX MAY BE APPLIED BY HYDRO-SEEDING, BY MECHANICAL SPREADER, OR ON SMALL SITES IT CAN BE SPREAD BY HAND. LIGHTLY RAKE, OR ROLL TO ENSURE PROPER SOIL-SEED CONTACT. BEST RESULTS ARE OBTAINED WITH A SPRING OR LATE SUMMER SEEDING. LATE SPRING THROUGH MID-SUMMER SEEDING WILL BENEFIT FROM A LIGHT MULCHING OF WEED-FREE STRAW TO CONSERVE MOISTURE. IF CONDITIONS ARE DRIER THAN USUAL, WATERING WILL BE REQUIRED. FERTILIZATION IS NOT REQUIRED UNLESS THE SOILS ARE PARTICULARLY INFERTILE. PREPARATION OF A CLEAN WEED FREE SEED BED IS NECESSARY FOR OPTIMAL RESULTS.

APPLICATION RATE: 35 LB/ACRE | 1250 SQ FT/LB

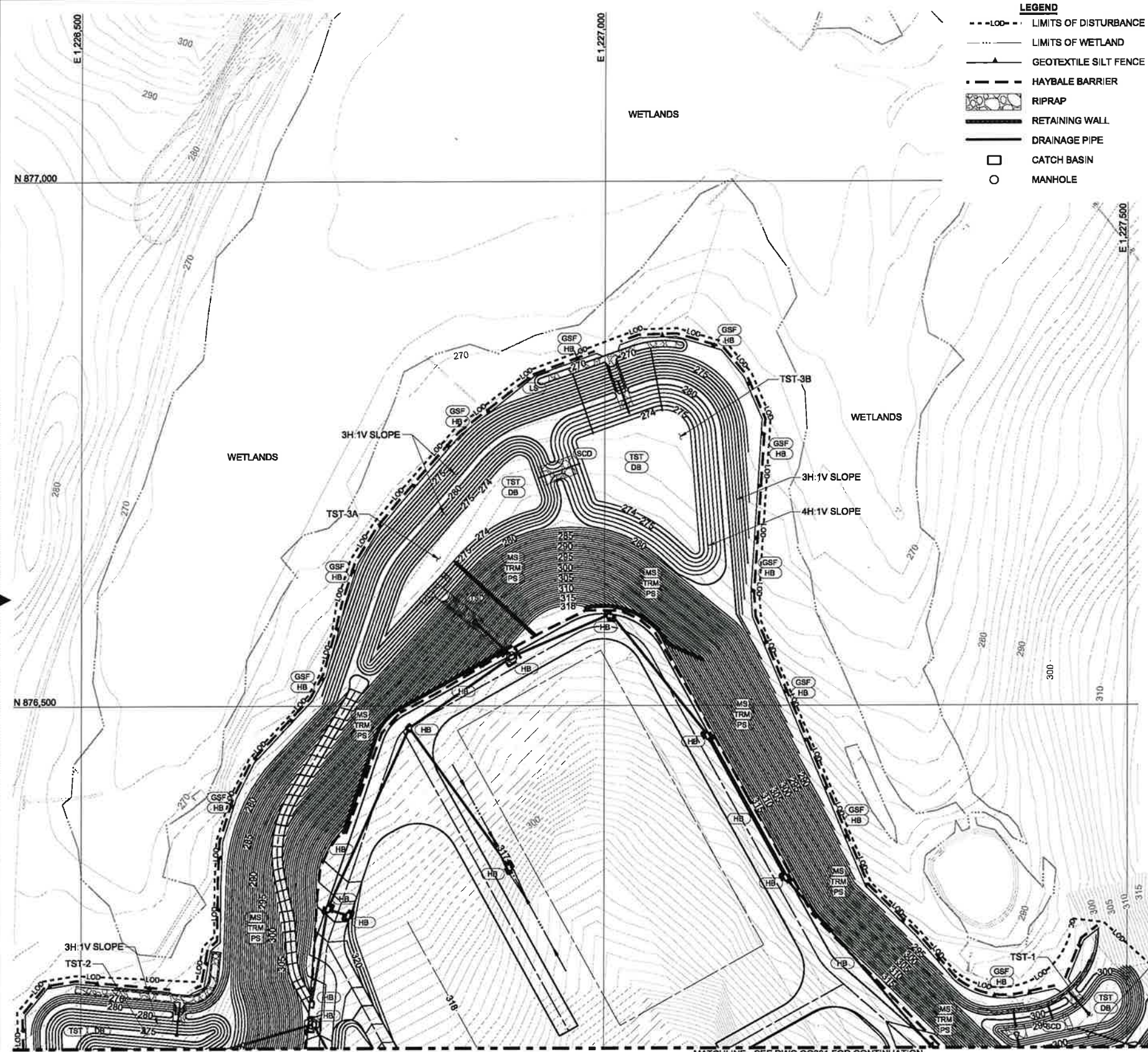
SPECIES: CREEPING RED FESCUE, (FESTUCA RUBRA), CANADA WILD RYE, (ELYMUS CANADENSIS), ANNUAL RYEGRASS, (LOLIUM MULTIFLORUM), PERENNIAL RYEGRASS, (LOLIUM PERENNE), BLUE GRAMA, (BOULELOUA GRACILIS), LITTLE BLUESTEM, (SCHIZACHYRIUM SCOPARIUM), INDIAN GRASS, (SORGHASTRUM NUTANS), ROUGH BENTGRASS, (AGROSTIS SCABRA), UPLAND BENTGRASS, (AGROSTIS PERENNANS)

NOTES:

- CONSTRUCTION LAYDOWN AND STAGING AREAS SHALL BE RE-ESTABLISHED AS GREEN AREAS AT THE TERMINATION OF CONSTRUCTION. PORTIONS MAY BE ESTABLISHED AS OVERFLOW OR EMERGENCY PARKING WITH GRASS PAVE OR AN ENGINEER APPROVED TURF REINFORCEMENT OPTION.
- TURF REINFORCEMENT MAT ON FILL AND CUT SLOPES SHALL BE ERONET C-125 LONG-TERM PHOTODEGRADABLE DOUBLE-NET BLANKET OR APPROVED EQUAL.
- SEED MIX ON SLOPES SHALL BE NEW ENGLAND ROADSIDE MATRIX MIX DISTRIBUTED BY NEW ENGLAND WETLANDS PLANTS, INC. APPLY AT A RATE OF 35 POUNDS PER ACRE AND SUPPLEMENT WITH 5% ANNUAL RYE GRASS (BY WEIGHT) AT TIME OF APPLICATION.
- ALL CUT AND FILL SIDE SLOPES ARE 2H:1V UNLESS OTHERWISE NOTED.
- ALL AREAS WITHIN THE LIMITS OF DISTURBANCE WILL BE CLEARED UNLESS NOTED OTHERWISE.



ISSUED FOR PERMITTING



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no.	date	by	ckd	description
B	07/29/19	KJE		ISSUED FOR PERMITTING
A	07/15/19	KJE		ISSUED FOR REVIEW

BURNS & MCDONNELL

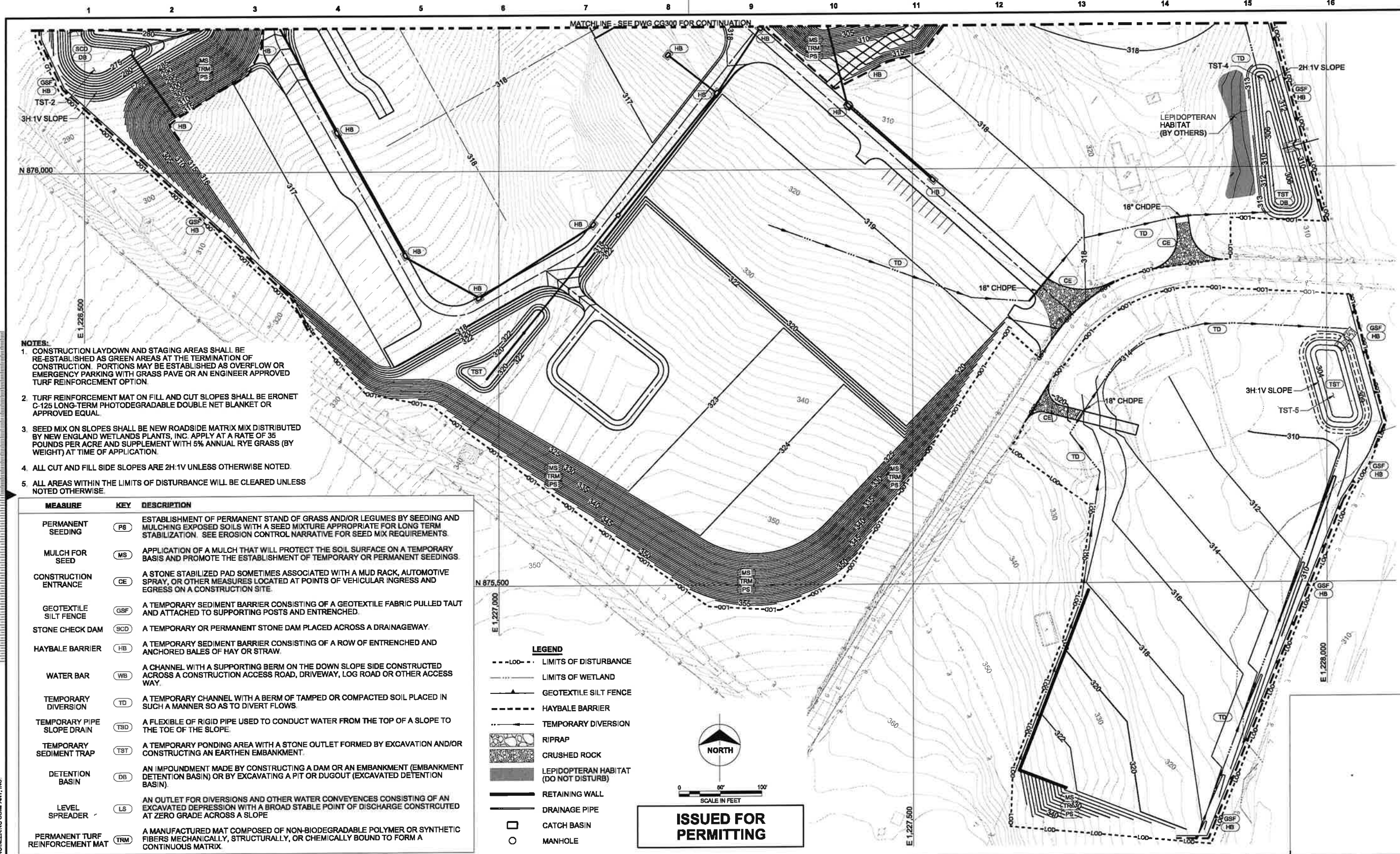
9400 WARD PARKWAY
KANSAS CITY, MO 64114
816-333-9400
FIRM LICENSE NO. PEC 000341

designed: K ENGHOLM
detailed: S. NICHOLS

NTE CONNECTICUT, LLC
EROSION & SEDIMENT CONTROL PLAN
SHEET 1

project: 111669 | contract:
drawing: CG300 | rev. B

sheet 1 of 1 sheets
file 111669_CG300.DGN



- NOTES:**
- CONSTRUCTION LAYDOWN AND STAGING AREAS SHALL BE RE-ESTABLISHED AS GREEN AREAS AT THE TERMINATION OF CONSTRUCTION. PORTIONS MAY BE ESTABLISHED AS OVERFLOW OR EMERGENCY PARKING WITH GRASS PAVE OR AN ENGINEER APPROVED TURF REINFORCEMENT MAT.
 - TURF REINFORCEMENT MAT ON FILL AND CUT SLOPES SHALL BE ERONET C-125 LONG-TERM PHOTODEGRADABLE DOUBLE NET BLANKET OR APPROVED EQUAL.
 - SEED MIX ON SLOPES SHALL BE NEW ROADSIDE MATRIX MIX DISTRIBUTED BY NEW ENGLAND WETLANDS PLANTS, INC. APPLY AT A RATE OF 35 POUNDS PER ACRE AND SUPPLEMENT WITH 5% ANNUAL RYE GRASS (BY WEIGHT) AT TIME OF APPLICATION.
 - ALL CUT AND FILL SIDE SLOPES ARE 2H:1V UNLESS OTHERWISE NOTED.
 - ALL AREAS WITHIN THE LIMITS OF DISTURBANCE WILL BE CLEARED UNLESS NOTED OTHERWISE.

MEASURE	KEY	DESCRIPTION
PERMANENT SEEDING	PS	ESTABLISHMENT OF PERMANENT STAND OF GRASS AND/OR LEGUMES BY SEEDING AND MULCHING EXPOSED SOILS WITH A SEED MIXTURE APPROPRIATE FOR LONG TERM STABILIZATION. SEE EROSION CONTROL NARRATIVE FOR SEED MIX REQUIREMENTS.
MULCH FOR SEED	MS	APPLICATION OF A MULCH THAT WILL PROTECT THE SOIL SURFACE ON A TEMPORARY BASIS AND PROMOTE THE ESTABLISHMENT OF TEMPORARY OR PERMANENT SEEDINGS.
CONSTRUCTION ENTRANCE	CE	A STONE STABILIZED PAD SOMETIMES ASSOCIATED WITH A MUD RACK, AUTOMOTIVE SPRAY, OR OTHER MEASURES LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON A CONSTRUCTION SITE.
GEOTEXTILE SILT FENCE	GSF	A TEMPORARY SEDIMENT BARRIER CONSISTING OF A GEOTEXTILE FABRIC PULLED TAUT AND ATTACHED TO SUPPORTING POSTS AND ENTRENCHED.
STONE CHECK DAM	SCD	A TEMPORARY OR PERMANENT STONE DAM PLACED ACROSS A DRAINAGEWAY.
HAYBALE BARRIER	HB	A TEMPORARY SEDIMENT BARRIER CONSISTING OF A ROW OF ENTRENCHED AND ANCHORED BALES OF HAY OR STRAW.
WATER BAR	WB	A CHANNEL WITH A SUPPORTING BERM ON THE DOWN SLOPE SIDE CONSTRUCTED ACROSS A CONSTRUCTION ACCESS ROAD, DRIVEWAY, LOG ROAD OR OTHER ACCESS WAY.
TEMPORARY DIVERSION	TD	A TEMPORARY CHANNEL WITH A BERM OF TAMPED OR COMPACTED SOIL PLACED IN SUCH A MANNER SO AS TO DIVERT FLOWS.
TEMPORARY PIPE SLOPE DRAIN	TSD	A FLEXIBLE OR RIGID PIPE USED TO CONDUCT WATER FROM THE TOP OF A SLOPE TO THE TOE OF THE SLOPE.
TEMPORARY SEDIMENT TRAP	TST	A TEMPORARY PONDING AREA WITH A STONE OUTLET FORMED BY EXCAVATION AND/OR CONSTRUCTING AN EARTHEN EMBANKMENT.
DETENTION BASIN	DB	AN IMPOUNDMENT MADE BY CONSTRUCTING A DAM OR AN EMBANKMENT (EMBANKMENT DETENTION BASIN) OR BY EXCAVATING A PIT OR DUGOUT (EXCAVATED DETENTION BASIN).
LEVEL SPREADER	LS	AN OUTLET FOR DIVERSIONS AND OTHER WATER CONVEYENCES CONSISTING OF AN EXCAVATED DEPRESSION WITH A BROAD STABLE POINT OF DISCHARGE CONSTRUCTED AT ZERO GRADE ACROSS A SLOPE.
PERMANENT TURF REINFORCEMENT MAT	TRM	A MANUFACTURED MAT COMPOSED OF NON-BIODEGRADABLE POLYMER OR SYNTHETIC FIBERS MECHANICALLY, STRUCTURALLY, OR CHEMICALLY BOUND TO FORM A CONTINUOUS MATRIX.

LEGEND

- L-00 --- LIMITS OF DISTURBANCE
- L-01 --- LIMITS OF WETLAND
- GSF --- GEOTEXTILE SILT FENCE
- HB --- HAYBALE BARRIER
- TD --- TEMPORARY DIVERSION
- RIPRAP --- RIPRAP
- CRUSHED ROCK --- CRUSHED ROCK
- LEPIDOPTERAN HABITAT (DO NOT DISTURB) --- LEPIDOPTERAN HABITAT (DO NOT DISTURB)
- RETAINING WALL --- RETAINING WALL
- DRAINAGE PIPE --- DRAINAGE PIPE
- CATCH BASIN --- CATCH BASIN
- MANHOLE --- MANHOLE

NORTH

0 50 100
SCALE IN FEET

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detailed: S. NICHOLS

KILLINGLY ENERGY CENTER
1X1 COMBINED CYCLE - MIPPS
WINDHAM COUNTY, CONNECTICUT

NTE CONNECTICUT, LLC
EROSION & SEDIMENT CONTROL PLAN
SHEET 2

project: 111689 contract: _____
drawing: CG301 - B rev: _____
sheet 1 of 1 sheets
file 111689 CG301 DGN

EROSION AND SEDIMENT CONTROL PLAN:

REFERENCE IS MADE TO:

- 1. CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL 2002 (2002 GUIDELINES).
- 2. NRCS WSS (WEB SOIL SURVEY)

DEVELOPMENT CONTROL PLAN:

- 1. DEVELOPMENT OF THE SITE WILL BE PERFORMED BY THE CONTRACTOR, WHO WILL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES REQUIRED THROUGHOUT CONSTRUCTION.
- 2. THE SEDIMENTATION CONTROL MECHANISMS SHALL REMAIN IN PLACE FROM START OF CONSTRUCTION. TOWN OF KILLINGLY WILL BE NOTIFIED WHEN SEDIMENT AND EROSION CONTROL STRUCTURES ARE INITIALLY IN PLACE. ANY ADDITIONAL SOIL & EROSION CONTROL MEASURES REQUESTED BY THE TOWN OR ITS AGENT, SHALL BE INSTALLED IMMEDIATELY ONCE THE PROPOSED DEVELOPMENT, SEEDING, AND PLANTING HAVE BEEN COMPLETED. THE REPRESENTATIVE SHALL AGAIN BE NOTIFIED TO INSPECT THE SITE. THE CONTROL MEASURES WILL NOT BE REMOVED UNTIL THIS INSPECTION IS COMPLETE.
- 3. ALL STRIPPING IS TO BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA. TOPSOIL SHALL BE STOCKPILED SO THAT SLOPES DO NOT EXCEED 2 TO 1. A SILT FENCE OR HAY BALE SEDIMENT BARRIER IS TO SURROUND EACH STOCKPILE AND TEMPORARY VEGETATIVE COVER SHALL BE PROVIDED.
- 4. DUST CONTROL WILL BE ACCOMPLISHED BY SPRAYING WITH WATER. THE APPLICATION OF CALCIUM CHLORIDE IS NOT PERMITTED ADJACENT TO WETLAND RESOURCE AREAS OR WITHIN 100' OF THESE AREAS.
- 5. THE PROPOSED PLANTING SCHEDULE IS TO BE ADHERED TO DURING THE PLANTING OF DISTURBED AREAS THROUGHOUT THE PROPOSED CONSTRUCTION SITE.
- 6. FINAL STABILIZATION OF THE SITE IS TO FOLLOW THE PROCEDURES OUTLINED IN "PERMANENT VEGETATIVE COVER". IF NECESSARY, A TEMPORARY VEGETATIVE COVER IS TO BE PROVIDED UNTIL A PERMANENT COVER CAN BE APPLIED.

SILT FENCE INSTALLATION AND MAINTENANCE:

- 1. DIG A 6" DEEP TRENCH ON THE UPHILL SIDE OF THE BARRIER LOCATION.
- 2. POSITION THE POSTS ON THE DOWNHILL SIDE OF THE BARRIER AND DRIVE THE POSTS 1.5 FEET INTO THE GROUND.
- 3. LAY THE BOTTOM 8" OF THE FABRIC IN THE TRENCH TO PREVENT UNDERMINING AND BACKFILL.
- 4. INSPECT AND REPAIR BARRIER AFTER HEAVY RAINFALL.
- 5. INSPECTIONS WILL BE MADE AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCH OR GREATER TO DETERMINE MAINTENANCE NEEDS.
- 6. SEDIMENT DEPOSITS ARE TO BE REMOVED WHEN THEY REACH A HEIGHT OF 1 FOOT BEHIND THE BARRIER OR HALF THE HEIGHT OF THE BARRIER AND ARE TO BE DEPOSITED IN AN AREA WHICH IS NOT REGULATED BY THE INLAND WETLANDS COMMISSION.
- 7. REPLACE OR REPAIR THE FENCE WITHIN 24 HOURS OF OBSERVED FAILURE. FAILURE OF THE FENCE HAS OCCURRED WHEN SEDIMENT FAILS TO BE RETAINED BY THE FENCE BECAUSE:
 - THE FENCE HAS BEEN OVERTOPPED, UNDERCUT OR BYPASSED BY RUNOFF WATER,
 - THE FENCE HAS BEEN MOVED OUT OF POSITION (KNOCKED OVER), OR
 - THE GEOTEXTILE HAS DECOMPOSED OR BEEN DAMAGED.

HAY BALE INSTALLATION AND MAINTENANCE:

- 1. BALES SHALL BE PLACED AS SHOWN ON THE PLANS WITH THE ENDS OF THE BALES TIGHTLY ABUTTING EACH OTHER.
- 2. EACH BALE SHALL BE SECURELY ANCHORED WITH AT LEAST 2 STAKES AND GAPS BETWEEN BALES SHALL BE WEDGED WITH STRAW TO PREVENT WATER FROM PASSING BETWEEN THE BALES.
- 3. INSPECT BALES AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCHES OR GREATER TO DETERMINE MAINTENANCE NEEDS.
- 4. REMOVE SEDIMENT BEHIND THE BALES WHEN IT REACHES HALF THE HEIGHT OF THE BALE AND DEPOSIT IN AN AREA WHICH IS NOT REGULATED BY THE INLAND WETLANDS COMMISSION.
- 5. REPLACE OR REPAIR THE BARRIER WITHIN 24 HOURS OF OBSERVED FAILURE. FAILURE OF THE BARRIER HAS OCCURRED WHEN SEDIMENT FAILS TO BE RETAINED BY THE BARRIER BECAUSE:
 - THE BARRIER HAS BEEN OVERTOPPED, UNDERCUT, OR BYPASSED BY RUNOFF WATER,
 - THE BARRIER HAS BEEN MOVED OUT OF POSITION, OR
 - THE HAY BALES HAVE DETERIORATED OR BEEN DAMAGED.

SEQUENCE OF CONSTRUCTION

- 1. FLAG THE LIMITS OF CONSTRUCTION DISTURBANCE NECESSARY TO FACILITATE THE PRE-CONSTRUCTION MEETING.
- 2. CONTACT CALL BEFORE YOU DIG AT 1-800-922-4455 TO MARK OUT EXISTING UTILITIES.
- 3. HOLD THE PRE-CONSTRUCTION MEETING.
- 4. INSTALL THE ANTI-TRACKING CONSTRUCTION ENTRANCE(S).
- 5. CUT TREES AS NEEDED TO INSTALL EROSION AND SEDIMENT CONTROLS.
- 6. INSTALL EROSION AND SEDIMENT CONTROLS SUCH AS SILT FENCE, HAYBALES, TEMPORARY SEDIMENT TRAPS OR BASINS, DIVERSIONS, AND STONE OR WOOD CHIP DIKES AND CHECK THAT DISCHARGE LOCATIONS ARE STABLE.
- 7. CUT TREES WITHIN THE DEFINED CLEARING LIMITS AND REMOVE CUT WOOD, CHIP BRUSH, BRANCHES AND SMALL TREES AND STOCKPILE CHIPS FOR USE ON SITE FOR EROSION AND SEDIMENT CONTROL.
- 8. STRIP AND STOCKPILE TOPSOIL WITHIN THE FOOTPRINT OF THE CONSTRUCTION PHASE AREA. INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS AROUND STOCKPILES AND PROVIDE TEMPORARY VEGETATIVE COVER. STUMPS WILL BE REMOVED AND TRANSPORTED OFF SITE.
- 9. GRADE CONSTRUCTION STAGING AND LAYDOWN AREAS. INSTALL CRUSHED STONE OR ROLLED GRAVEL SURFACE AND GRADE TO PROVIDE POSITIVE DRAINAGE TO PERIMETER OF LAYDOWN AREA.
- 10. MAKE REQUIRED CUTS AND FILLS AND CONSTRUCT RETAINING WALLS.
- 11. ESTABLISH THE SUBGRADE FOR TOPSOIL AREAS, BUILDINGS, PERIMETER ROADWAY, AND PARKING AREAS. ALLOW FOR SUFFICIENT AREA AROUND BUILDING FOOTPRINTS FOR CONSTRUCTION ACTIVITIES.
- 12. BEGIN BUILDING AND EQUIPMENT CONSTRUCTION.
- 13. INSTALL UTILITIES AND DRAINAGE SYSTEMS.
- 14. PREPARE SUB-BASE, SLOPES, PARKING AREAS, SHOULDER AREAS, ACCESS ROADS, AND ANY ADDITIONAL AREAS OF DISTURBANCE FOR FINAL GRADING.
- 15. INSTALL TOPSOIL ON FILL AND CUT SLOPES, SEED DISTURBED AREAS, AND INSTALL EROSION CONTROL FABRIC TO PROTECT AGAINST RUNOFF EROSION OR RAINDROP IMPACT.
- 16. INSTALL AND COMPACT PROCESSED AGGREGATE FOR PAVEMENT AREAS.

- 17. INSTALL CRUSHED STONE SURFACES WHERE CALLED FOR ON THE DESIGN PLANS.
- 18. PLACE REMAINING TOPSOIL WHERE REQUIRED AND COMPLETE PERIMETER LANDSCAPING. FINE GRADE, RAKE, SEED AND MULCH TO WITHIN 2' OF CURBS OR PAVED AREAS.
- 19. UPON SUBSTANTIAL COMPLETION OF THE BUILDING(S) AND PLANT EQUIPMENT AREAS, COMPLETE THE BALANCE OF THE SITE WORK AND STABILIZATION OF REMAINING DISTURBED AREAS. INSTALL FIRST COURSE OF PAVING.
- 20. WHEN ALL OTHER WORK HAS BEEN COMPLETED, REPAIR AND SWEEP ALL PAVED AREAS FOR FINAL COURSE OF PAVING. INSPECT DRAINAGE SYSTEM AND STORMWATER BASINS AND REMOVE ACCUMULATED SEDIMENT.
- 21. INSTALL FINAL COURSE OF PAVEMENT.
- 22. AFTER SITE IS STABILIZED, REMOVE EROSION AND SEDIMENT CONTROLS.

EROSION AND SEDIMENT CONTROL NARRATIVE:

PRINCIPLES OF EROSION AND SEDIMENT CONTROL:

THE PRIMARY FUNCTION OF EROSION AND SEDIMENT CONTROLS IS TO ABSORB EROSIONAL ENERGIES AND REDUCE RUNOFF VELOCITIES THAT FORCE THE DETACHMENT AND TRANSPORT OF SOIL AND/OR ENCOURAGE THE DEPOSITION OF ERODED SOIL PARTICLES BEFORE THEY REACH ANY SENSITIVE AREA.

KEEP LAND DISTURBANCE TO A MINIMUM:

THE MORE LAND THAT IS IN VEGETATIVE COVER, THE MORE SURFACE WATER WILL INFILTRATE INTO THE SOIL, THUS MINIMIZING STORMWATER RUNOFF AND POTENTIAL EROSION. KEEPING LAND DISTURBANCE TO A MINIMUM NOT ONLY INVOLVES MINIMIZING THE EXTENT OF EXPOSURE AT ANY ONE TIME, BUT ALSO THE DURATION OF EXPOSURE. PHASING, SEQUENCING, AND CONSTRUCTION SCHEDULING ARE INTERRELATED. PHASING DIVIDES A LARGE PROJECT INTO DISTINCT SECTIONS WHERE CONSTRUCTION WORK OVER A SPECIFIC AREA OCCURS OVER DISTINCT PERIODS OF TIME AND EACH PHASE IS NOT DEPENDENT UPON A SUBSEQUENT PHASE IN ORDER TO BE FUNCTIONAL. A SEQUENCE IS THE ORDER IN WHICH CONSTRUCTION ACTIVITIES ARE TO OCCUR DURING ANY PARTICULAR PHASE. A SEQUENCE SHOULD BE DEVELOPED ON THE PREMISE OF "FIRST THINGS FIRST" AND "LAST THINGS LAST" WITH PROPER ATTENTION GIVEN TO THE INCLUSION OF ADEQUATE EROSION AND SEDIMENT CONTROL MEASURES. A CONSTRUCTION SCHEDULE IS A SEQUENCE WITH TIME LINES APPLIED TO IT AND SHOULD ADDRESS THE POTENTIAL OVERLAP OF ACTIONS IN A SEQUENCE WHICH MAY BE IN CONFLICT WITH EACH OTHER.

- LIMIT AREAS OF CLEARING AND GRADING. PROTECT NATURAL VEGETATION FROM CONSTRUCTION EQUIPMENT WITH FENCING, TREE ARMORING, AND RETAINING WALLS OR TREE WELLS.
- ROUTE TRAFFIC PATTERNS WITHIN THE SITE TO AVOID EXISTING OR NEWLY PLANTED VEGETATION.
- PHASE CONSTRUCTION SO THAT AREAS WHICH ARE ACTIVELY BEING DEVELOPED AT ANY ONE TIME ARE MINIMIZED AND ONLY THE AREA UNDER CONSTRUCTION IS EXPOSED. CLEAR ONLY THOSE AREAS ESSENTIAL FOR CONSTRUCTION.
- SEQUENCE THE CONSTRUCTION OF STORM DRAINAGE SYSTEMS SO THAT THEY ARE OPERATIONAL AS SOON AS POSSIBLE DURING CONSTRUCTION. ENSURE ALL OUTLETS ARE STABLE BEFORE OUTLETTING STORM DRAINAGE FLOW INTO THEM.
- SCHEDULE CONSTRUCTION SO THAT FINAL GRADING AND STABILIZATION IS COMPLETED AS SOON AS POSSIBLE.

SLOW THE FLOW:

DETACHMENT AND TRANSPORT OF ERODED SOIL MUST BE KEPT TO A MINIMUM BY ABSORBING AND REDUCING THE EROSION ENERGY OF WATER. THE EROSION ENERGY OF WATER INCREASES AS THE VOLUME AND VELOCITY OF RUNOFF INCREASES. THE VOLUME AND VELOCITY OF RUNOFF INCREASES DURING DEVELOPMENT AS A RESULT OF REDUCED INFILTRATION RATES CAUSED BY THE REMOVAL OF EXISTING VEGETATION, REMOVAL OF TOPSOIL, COMPACTION OF SOIL, AND THE CONSTRUCTION OF IMPERVIOUS SURFACES.

- USE DIVERSIONS, STONE DIKES, SILT FENCES, AND SIMILAR MEASURES TO BREAK FLOW LINES AND DISSIPATE STORM WATER ENERGY.
- AVOID DIVERTING ONE DRAINAGE SYSTEM INTO ANOTHER WITHOUT CALCULATING THE POTENTIAL FOR DOWNSTREAM FLOODING OR EROSION.

KEEP CLEAN RUNOFF SEPARATED:

- CLEAN RUNOFF SHOULD BE KEPT SEPARATED FROM SEDIMENT LADEN WATER AND SHOULD NOT BE DIRECTED OVER DISTURBED AREAS WITHOUT ADDITIONAL CONTROLS. ADDITIONALLY, PREVENT THE MIXING OF CLEAN OFF-SITE GENERATED RUNOFF WITH SEDIMENT LADEN RUNOFF GENERATED ON-SITE UNTIL AFTER ADEQUATE FILTRATION OF ON-SITE WATERS HAS OCCURRED.
- SEGREGATE CONSTRUCTION WATERS FROM CLEAN WATER.
- DIVERT SITE RUNOFF TO KEEP IT ISOLATED FROM WETLANDS, WATERCOURSES, AND DRAINAGE WAYS THAT FLOW THROUGH OR NEAR THE DEVELOPMENT UNTIL THE SEDIMENT IN THAT RUNOFF IS TRAPPED OR DETAINED.

REDUCE ON-SITE POTENTIAL INTERNALLY AND INSTALL PERIMETER CONTROLS:

WHILE IT MAY SEEM LESS COMPLICATED TO COLLECT ALL WATERS TO ONE POINT OF DISCHARGE FOR TREATMENT AND JUST INSTALL A PERIMETER CONTROL, IT CAN BE MORE EFFECTIVE TO APPLY INTERNAL CONTROLS TO MANY SMALL SUB-DRAINAGE SEDIMENT TRAPS OR BASINS WITHIN THE SITE. BY REDUCING SEDIMENT LOADING FROM WITHIN THE SITE, THE CHANCE OF PERIMETER CONTROL FAILURE AND THE POTENTIAL OFF-SITE DAMAGE THAT IT CAN CAUSE IS REDUCED. IT IS GENERALLY MORE EXPENSIVE TO CORRECT OFF-SITE DAMAGE THAN IT IS TO INSTALL PROPER INTERNAL CONTROLS.

- CONTROL EROSION AND SEDIMENTATION IN THE SMALLEST DRAINAGE AREA POSSIBLE. IT IS EASIER TO CONTROL EROSION THAN TO CONTENT WITH SEDIMENT AFTER IT HAS BEEN CARRIED DOWNSTREAM AND DEPOSITED IN UNWANTED AREAS.
- DIRECT RUNOFF FROM SMALL DISTURBED AREAS TO ADJOINING UNDISTURBED VEGETATED AREAS TO REDUCE THE POTENTIAL FOR CONCENTRATED FLOWS AND INCREASE SETTLEMENT AND FILTERING OF SEDIMENTS.
- CONCENTRATED RUNOFF FROM DEVELOPMENT SHOULD BE SAFELY CONVEYED TO STABLE OUTLETS USING RIPRAPPED CHANNELS, WATERWAYS, DIVERSIONS, STORM DRAINS, OR SIMILAR MEASURES.
- DETERMINE THE NEED FOR SEDIMENT TRAPS OR BASINS. SEDIMENT TRAPS OR BASINS ARE REQUIRED ON LARGER DEVELOPMENTS WHERE MAJOR GRADING IS PLANNED AND WHERE IT IS IMPOSSIBLE OR IMPRACTICAL TO CONTROL EROSION AT THE SOURCE. SEDIMENT TRAPS OR BASINS ARE ALSO NEEDED ON LARGE AND SMALL SITES WHEN SENSITIVE AREAS SUCH AS WETLANDS, WATERCOURSES, AND STREETS WOULD BE IMPACTED BY OFF-SITE SEDIMENT DEPOSITION. DO NOT LOCATE SEDIMENT TRAPS OR BASINS IN WETLANDS OR PERMANENT OR INTERMITTENT WATERCOURSES. SEDIMENT TRAPS OR BASINS SHOULD BE LOCATED TO INTERCEPT RUNOFF PRIOR TO ITS ENTRY INTO THE WETLAND OR WATERCOURSE.
- GRADE AND LANDSCAPE AROUND BUILDINGS AND SEPTIC SYSTEMS TO DIVERT WATER AWAY FROM THEM.

TEMPORARY VEGETATIVE COVER:

SEED SELECTION:

GRASS SPECIES SHALL BE APPROPRIATE FOR THE SEASON AND SITE CONDITIONS. APPROPRIATE SPECIES ARE OUTLINED IN FIGURE TS-2 IN THE 2002 GUIDELINES. FIGURE TS-2 IS ALSO PROVIDED ON DWG CG331.

TIMING CONSIDERATIONS:

SEED WITH A TEMPORARY SEED MIXTURE WITHIN 7 DAYS AFTER THE SUSPENSION OF GRADING WORK IN DISTURBED AREAS WHERE THE SUSPENSION OF WORK IS EXPECTED TO BE MORE THAN 30 DAYS BUT LESS THAN 1 YEAR.

SITE PREPARATION:

INSTALL NEEDED EROSION CONTROL MEASURES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, SEDIMENT TRAPS, AND GRASSSED WATERWAYS.

GRADE ACCORDING TO PLANS AND ALLOW FOR THE USE OF APPROPRIATE EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.

SEEDBED PREPARATION:

LOOSEN THE SOIL TO A DEPTH OF 3-4 INCHES WITH A SLIGHTLY ROUGHENED SURFACE. IF THE AREA HAS BEEN RECENTLY LOOSENED OR DISTURBED, NO FURTHER ROUGHENING IS REQUIRED. SOIL PREPARATION CAN BE ACCOMPLISHED BY TRACKING WITH A BULLDOZER, DISCING, HARROWING, RAKING, OR DRAGGING WITH A SECTION OF CHAIN LINK FENCE. AVOID EXCESSIVE COMPACTION OF THE SURFACE BY EQUIPMENT TRAVELING BACK AND FORTH OVER THE SURFACE. IF THE SLOPE IS TRACKED, THE CLEAT MARKS SHALL BE PERPENDICULAR TO THE ANTICIPATED DIRECTION OF THE SURFACE WATER FLOW.

IF SOIL TESTING IS NOT PRACTICAL OR FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 300 POUNDS PER ACRE OR 7.5 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 OR EQUIVALENT. ADDITIONALLY, LIME MAY BE APPLIED USING RATES GIVEN IN FIGURE TS-1 IN THE 2002 GUIDELINES.

SEEDING:

APPLY SEED UNIFORMLY BY HAND CYCLONE SEEDER, DRILL, CULTIPACKER TYPE SEEDER, OR HYDROSEEDER AT A MINIMUM RATE FOR THE SELECTED SPECIES. INCREASE SEEDING RATES BY 10% WHEN HYDROSEEDING.

MULCHING:

TEMPORARY SEEDINGS MADE DURING OPTIMUM SEEDING DATES SHALL BE MULCHED ACCORDING TO THE RECOMMENDATIONS IN THE 2002 GUIDELINES. WHEN SEEDING OUTSIDE OF THE RECOMMENDED DATES, INCREASE THE APPLICATION OF MULCH TO PROVIDE 95%-100% COVERAGE.

MAINTENANCE:

INSPECT SEEDED AREAS AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCH OR GREATER FOR SEED AND MULCH MOVEMENT AND RILL EROSION.

WHERE SEED HAS MOVED OR WHERE SOIL EROSION HAS OCCURRED, DETERMINE THE CAUSE OF THE FAILURE REPAIR ERODED AREAS AND INSTALL ADDITIONAL CONTROLS IF REQUIRED TO PREVENT REOCCURRENCE OF EROSION.

CONTINUE INSPECTIONS UNTIL GRASS IS FIRMLY ESTABLISHED. GRASS SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED WHICH IS MATURE ENOUGH TO CONTROL SOIL EROSION AND TO SURVIVE SEVERE WEATHER CONDITIONS (APPROXIMATELY 80% VEGETATIVE COVER).

PERMANENT VEGETATIVE COVER:

REFER TO FIGURES PS-2 AND PS-3 IN THE 2002 GUIDELINES FOR SPECIFIC PERMANENT SEEDING MIXTURES, APPLICATIONS, AND DETAILS RELATED TO THE INSTALLATION AND MAINTENANCE OF A PERMANENT VEGETATIVE COVER. FIGURES PS-2 AND PS-3 ARE ALSO PROVIDED ON DWG CG331. IN GENERAL, THE FOLLOWING SEQUENCE OF OPERATIONS SHALL APPLY:

- 1. TOPSOIL WILL BE REPLACED ONCE THE EXCAVATION AND GRADING HAS BEEN COMPLETED. TOPSOIL WILL BE SPREAD AT A MINIMUM COMPACTED DEPTH OF 4".
- 2. ONCE THE TOPSOIL HAS BEEN SPREAD, ALL STONES 2" OR LARGER IN ANY DIMENSION WILL BE REMOVED AS WELL AS DEBRIS.
- 3. APPLY AGRICULTURAL GROUND LIMESTONE AT A RATE OF 2 TONS PER ACRE OR 100 LBS PER 1000 SF. APPLY 10-10-10 FERTILIZER OR EQUIVALENT AT A RATE OF 300 LBS PER ACRE OR 7.5 LBS PER 1000 SF. WORK LIME AND FERTILIZER INTO THE SOIL TO A DEPTH OF 4".
- 4. INSPECT SEEDBED BEFORE SEEDING. IF TRAFFIC HAS COMPACTED THE SOIL, RETILL COMPACTED AREAS.
- 5. APPLY THE CHOSEN GRASS SEED MIX. THE RECOMMENDED SEEDING DATES ARE: APRIL 1 TO JUNE 15 & AUGUST 15 TO OCTOBER 1.
- 6. MULCH IMMEDIATELY FOLLOWING SEEDING. IF A PERMANENT VEGETATIVE STAND CANNOT BE ESTABLISHED BY SEPTEMBER 30, APPLY A TEMPORARY COVER ON THE TOPSOIL SUCH AS NETTING, MAT, OR ORGANIC MULCH.

DEWATERING:

IF DEWATERING IS REQUIRED, A PUMPING OUTLET BASIN SHALL BE CONSTRUCTED AND UTILIZED AS DETAILED ON DWG CG332. PUMPING OUTLET BASIN SHALL BE LOCATED SUCH THAT FLOW LEAVING THE PUMPING OUTLET BASIN IS ROUTED THROUGH A TEMPORARY SEDIMENT TRAP.

Scale For Detailing
inches
millimeters

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detailed: S. NICHOLS

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NTE CONNECTICUT, LLC
EROSION & SEDIMENT CONTROL NOTES
SHEET 1

project 111869 contract

drawing CG330 rev. B

sheet 1 of 1 sheets
file 111869 CG330 DGN

KILLINGLY ENERGY CENTER
1X1 COMBINED CYCLE - MHPs
WINDHAM COUNTY, CONNECTICUT

Figure TS-2 Temporary Seeding Rates and Dates

Table with columns: Species, Seeding Rates (lb/1000 sq ft), Optimum Seed Depth (inches), Optimum Seeding Dates (7/15, 8/15, 9/15, 10/15), and Plant Characteristics.

1 May be planted throughout summer if soil moisture is adequate or can be irrigated. Fall seeding may be extended 15 days in the coastal zone.
2 Seed at twice the indicated depth for sandy soils.
3 See Permanent Seeding Figure PS-3 for seeding mixture requirements.
4 Listed species may be used in combinations to obtain a broader time spectrum. Used in combinations, reduce each species planting rate by 20% of that listed.

Figure PS-2 Selecting Seed Mix to Match Need

Table with columns: Area to Be Seeded, Mowing Desired, Mowing Not Required. Rows include: Borrow Areas, Roadside, Dikes, Levees, Pond Banks; Drainage Ditch and Channel Banks; Diversions; Effluent Disposal; Gravel Pits; Gullies and Eroded Areas; Mine Spoil & Waste and Other Spoil Banks; Shorelines; Ski Slopes; Sod Waterways and Spillways; Sunny Recreation Areas; Camping and Parking; Sand Dunes; Woodland Access Roads, Skid Trails and Log Yarding Areas; Lawns and High Maintenance Areas.

1 The numbers following in these columns refer to seed mixtures in Figure PS-3. Mixes for study areas are in bold italics print (including mixes 20 through 24).
2 See county soil survey for drainage class. Soil surveys are available from the County Soil and Water Conservation District Office.
3 Use mix 26 when soil passing a 200 mesh sieve is less than 15% of total weight. Use mix 26 & 27 when soil passing a 200 mesh sieve is between 15 and 20% of total weight. Use mix 26, 27 & 28 when soil passing a 200 mesh sieve is above 20% of total weight.

Figure PS-3 Seed Mixtures for Permanent Seeding

Table with columns: No., Seed Mixture (Variety), Lbs/Acre, Lbs/1,000 Sq. Ft. Lists various seed mixtures for permanent seeding such as Kentucky Bluegrass, Creeping Red Fescue, Perennial Ryegrass, etc.

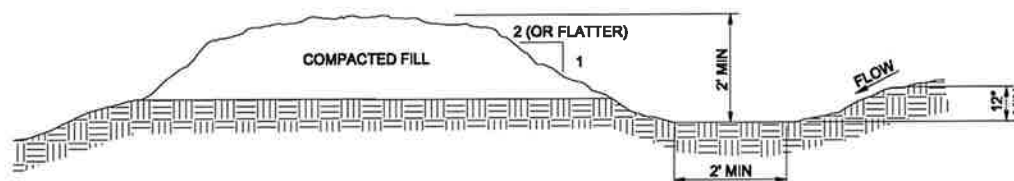
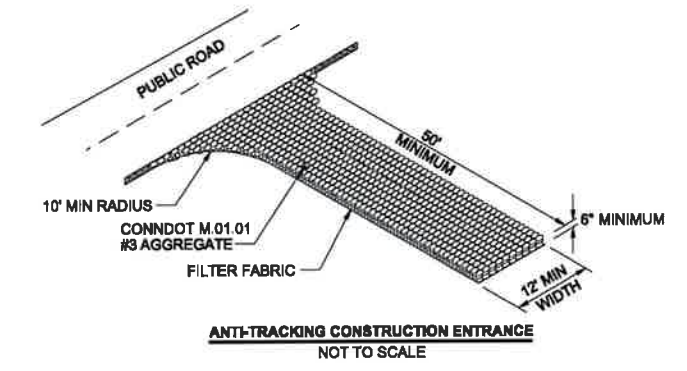
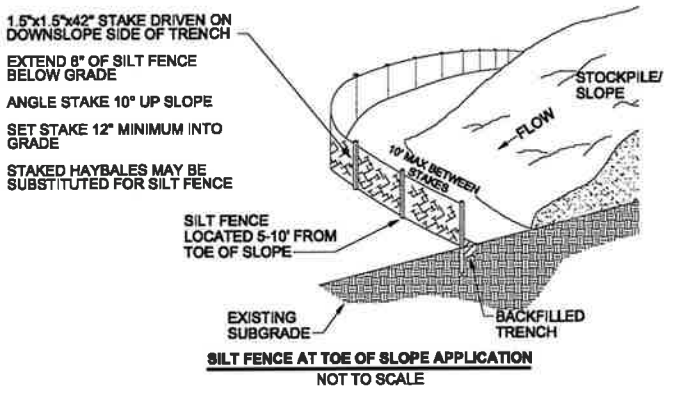
Figure PS-3 Seed Mixtures for Permanent Seeding (con't)

Continuation of Table PS-3 with columns: No., Seed Mixture (Variety), Lbs/Acre, Lbs/1,000 Sq. Ft. Lists mixtures like American Beachgrass, Switchgrass, Orchardgrass, etc.

1 The proper inoculant for legume seeds, use four times recommended rate when hydroseeding.
2 Use Pure Live Seed (PLS) = (% Germination X % Purity) / 100
EXAMPLE: Common bermuda seed with 70% germination and 80% purity = (70 x 80) / 100 = 56%
10 lbs./1000 sq. ft. = 17.9 lbs./acre of bagged seed
3 DOT All purpose mix
4 Wild flower mix containing New England Aster, Ruby's Beauty, Black Eye Susan, Candytuft, Dwarf Columbine, Purple Coneflower, Luteo-lobed Gaillardia, Garden Sage, Orange Daylily, Scarlet Foxglove, Forsythia, Rocky Mountain Spinkie, Larkspur, Corn Poppy, Spurred Anemone, Wallflower and/or Yarrow may be added to any seed mix given. Most seed suppliers carry a wild flower mixture that is suitable for the Northeast and contains a variety of both annual and perennial flowers. Seeding rates for the specific mixtures should be followed.
5 Considered to be a cool season mix.
6 Considered to be a warm season mix.

Figure PS-3 Seed Mixtures for Permanent Seeding (con't)

Continuation of Table PS-3 with columns: No., Seed Mixture (Variety), Lbs/1,000 Sq. Ft., No. Sq. Ft. Lists mixtures like Switchgrass, Crown Vetch, Deer Tongue, etc.



- 1. STONE DIKES MAY BE USED IN SLOPING DITCHES OR CHANNELS TO SLOW VELOCITY OR TO CREATE SEDIMENT TRAPS.
2. TEMPORARY DIVERSIONS TO REMAIN IN PLACE FOR MORE THAN 30 WORKING DAYS SHALL BE SEEDED, MULCHED, AND STABILIZED AS APPROPRIATE.
3. REMOVE SEDIMENT AS NEEDED TO RETAIN POSITIVE FLOW WITHIN DIVERSION.
4. ADDITIONAL DIVERSIONS MAY BE CONSTRUCTED WITH OWNER'S APPROVAL TO PROTECT CONTRACTOR'S WORK.

TEMPORARY DIVERSION CHANNEL NOT TO SCALE

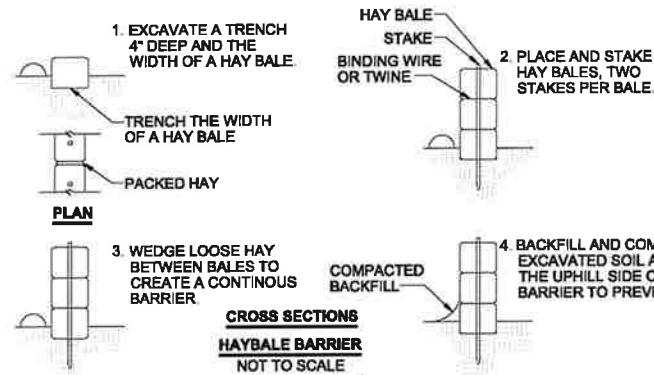
ISSUED FOR PERMITTING

Revision table with columns: No., Date, By, Ckd, Description. Row B: 07/29/19 KJE ISSUED FOR PERMITTING. Row A: 07/15/19 KJE ISSUED FOR REVIEW.

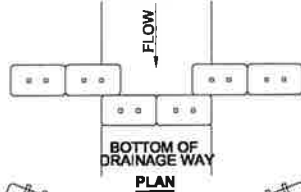
Revision table with columns: No., Date, By, Ckd, Description.

Revision table with columns: No., Date, By, Ckd, Description.

Project information for NTE CONNECTICUT, LLC EROSION & SEDIMENT CONTROL NOTES SHEET 2. Includes project number 111889, drawing CG331, sheet 1 of 1. Also includes logo for BURNS & MCDONNELL and address: 9400 WARD PARKWAY, KANSAS CITY, MO 64114, 818-333-9400.

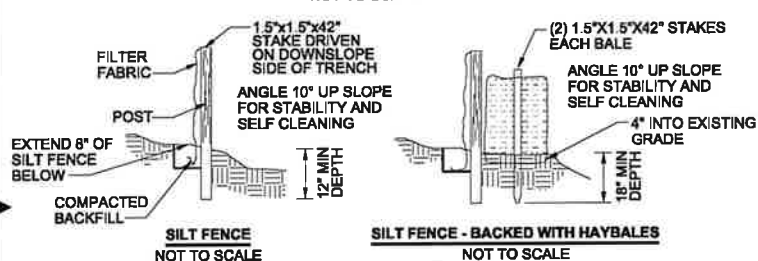


**CROSS SECTIONS
HAYBALE BARRIER**
NOT TO SCALE



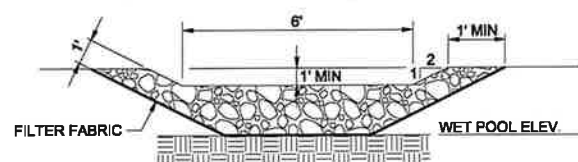
PLAN

**CROSS SECTION
HAYBALE CHECK DAM**
NOT TO SCALE



SILT FENCE
NOT TO SCALE

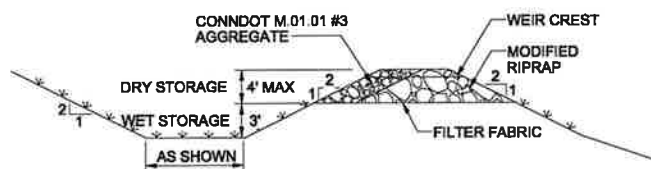
SILT FENCE - BACKED WITH HAYBALES
NOT TO SCALE



FILTER FABRIC

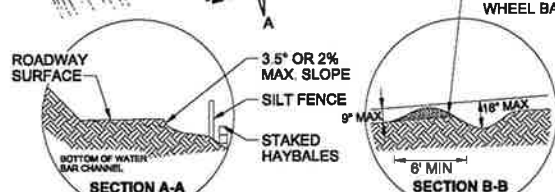
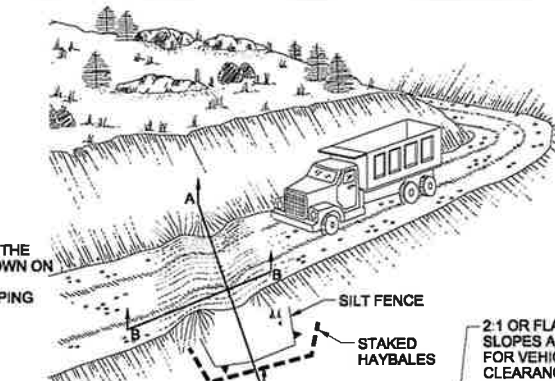
WET POOL ELEV.

TEMPORARY SEDIMENT TRAP
NOT TO SCALE

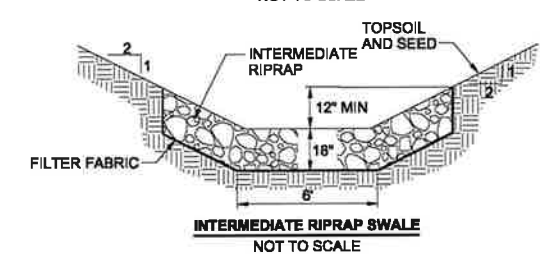


NOTES:

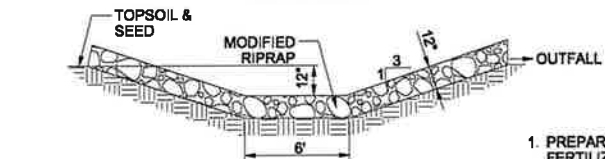
1. INSPECT THE BASIN AT LEAST ONCE A WEEK AND AFTER RAINFALL EVENTS OF 0.5" OR GREATER.
2. REMOVE SEDIMENT WHEN DEPOSITS REACH APPROXIMATELY 1/2 THE HEIGHT OF THE WET STORAGE. SEDIMENT SHALL BE DEPOSITED IN AN AREA WHICH IS NOT REGULATED BY THE INLAND WETLANDS COMMISSION.
3. REPLACE OR REPAIR WITHIN 24 HOURS OF OBSERVED FAILURE. FAILURE MAY INCLUDE:
 - OVERTOPPING, UNDERCUTTING, OR BYPASSED BY RUNOFF WATER.
 - STONE FILTER HAS BEEN MOVED OR KNOCKED OVER.



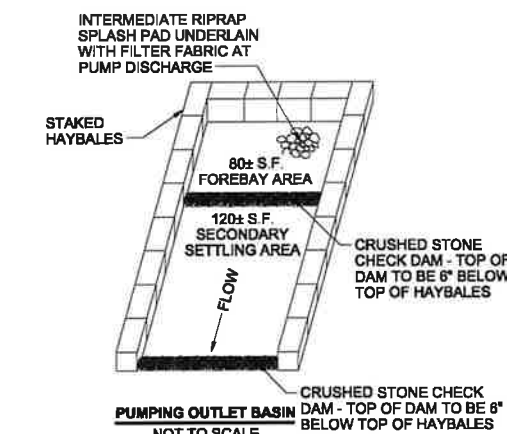
WATER BAR DETAIL
NOT TO SCALE



INTERMEDIATE RIPRAP SWALE
NOT TO SCALE

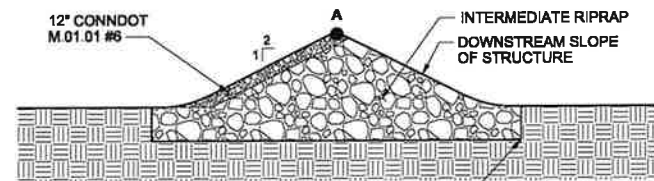


SECTION THROUGH LEVEL SPREADER
NOT TO SCALE

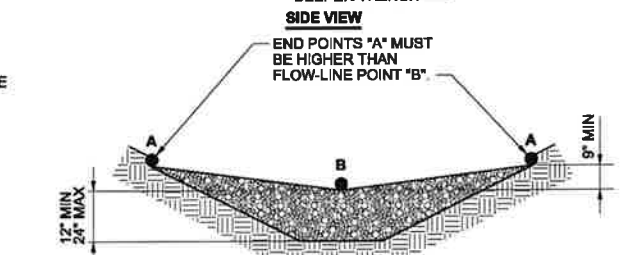


PUMPING OUTLET BASIN
NOT TO SCALE

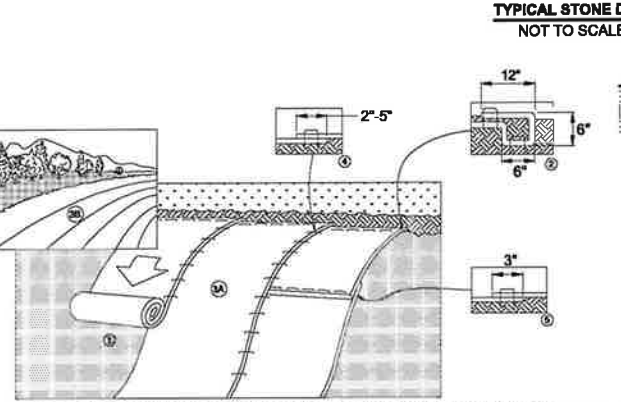
- NOTES:**
1. TO BE USED IN THE EVENT THAT DEWATERING IS REQUIRED.
 2. LOCATE BASINS OUTSIDE OF WETLANDS.



TYPICAL STONE DIKE
NOT TO SCALE



FRONT VIEW

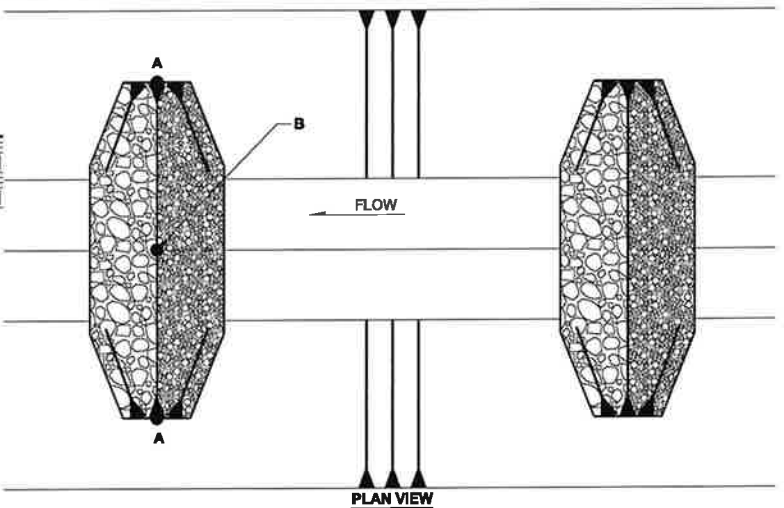


TURF REINFORCEMENT MAT INSTALLATION
NOT TO SCALE

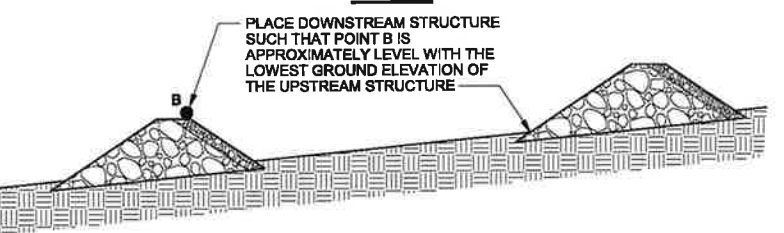
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.

NOTES:

1. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
2. TURF REINFORCEMENT MAT SHALL BE NORTH AMERICAN GREEN ERONET C-125 LONG TERM PHOTODEGRADABLE BLANKET OR APPROVED EQUIVALENT.



FLOWLINE PROFILE
NOT TO SCALE



HAYBALE INSTALLATION AT CATCH BASIN
NOT TO SCALE

ISSUED FOR PERMITTING

BURNS & MCDONNELL

9400 WARD PARKWAY
KANSAS CITY, MO 64114
816-333-9400
FIRM LICENSE NO. PEC 000341

designed by K. ENGHOLM detailed by S. NICHOLS

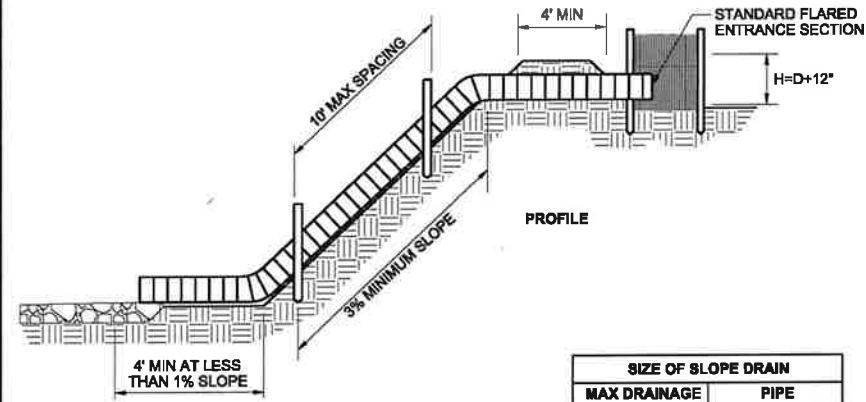
NTE CONNECTICUT, LLC
EROSION & SEDIMENT CONTROL
DETAILS
SHEET 1

project 111669 contract
drawing CG332 rev. B
sheet 1 of 1 sheets
file 111669 CG332 DGN

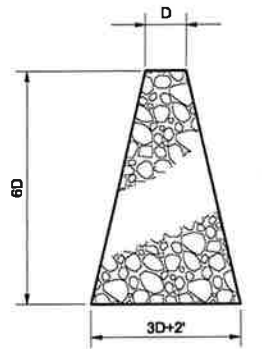
KILLINGLY ENERGY CENTER
1X1 COMBINED CYCLE - MHP
WINDHAM COUNTY, CONNECTICUT

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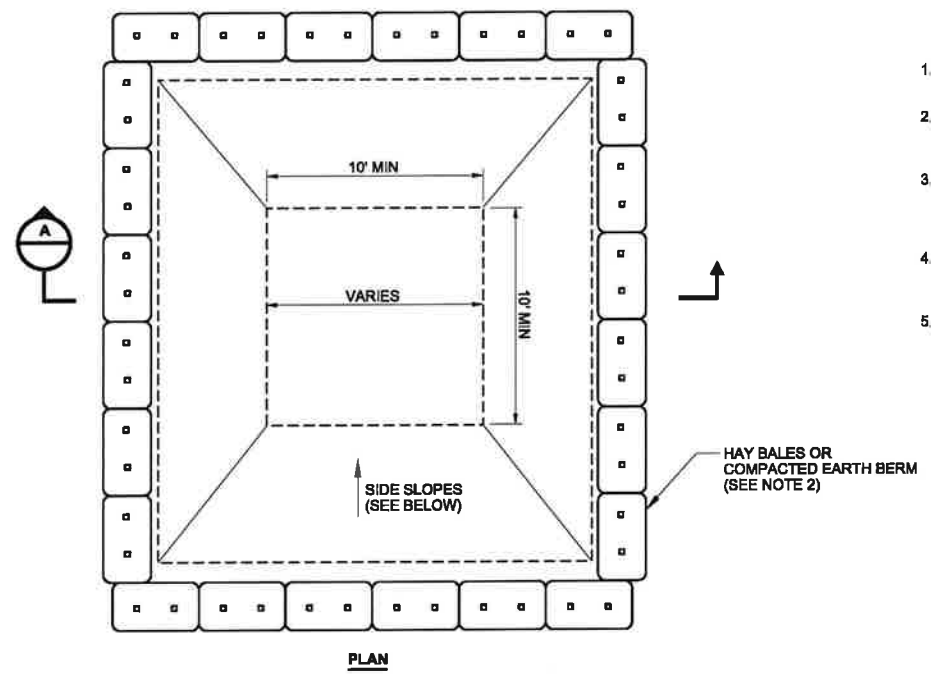
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B	07/29/19	KJE		ISSUED FOR PERMITTING
A	07/15/19	KJE		ISSUED FOR REVIEW



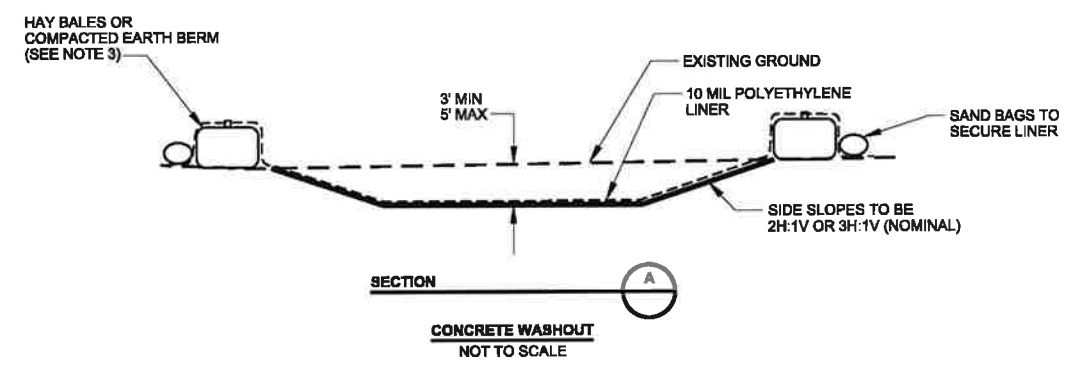
SIZE OF SLOPE DRAIN	
MAX DRAINAGE AREA (AC)	PIPE DIAMETER (IN)
0.5	12
2.5	18
5.0	24



- NOTES:**
1. THE PIPE SLOPE DRAIN SHALL HAVE A SLOPE OF 3% OR STEEPER.
 2. TOP OF THE EARTH DIKE OVER THE INLET PIPE AND ALL DIKES CARRYING WATER TO THE PIPE SHALL BE AT LEAST 1 FOOT HIGHER THAN THE TOP OF THE PIPE.
 3. ADD 0.3 FOOT TO DIKE HEIGHT OF SETTLEMENT.
 4. SOIL AROUND AND UNDER THE SLOPE PIPE SHALL BE HAND TEMPERED IN 4-INCH LIFTS.
 5. THE PIPE SHALL BE HDPE WITH WATERTIGHT CONNECTIONS.
 6. PIPE ANCHORS TO BE PLACED AT 10' MAXIMUM SPACING.
 7. RIPRAP TO BE MODIFIED RIPRAP AT LEAST 12" THICK AND PRESSED INTO THE SOIL.
 8. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.



- NOTES:**
1. CONCRETE WASHOUT(S) SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE. THE CONCRETE WASHOUT SHALL BE ENTIRELY SELF-CONTAINED.
 2. SURFACE DISCHARGE IS UNACCEPTABLE. THEREFORE, HAY BALES OR OTHER CONTROL MEASURES, SHALL BE USED AROUND THE PERIMETER OF THE CONCRETE WASHOUT FOR CONTAINMENT.
 3. SIGNS SHOULD BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CONCRETE AREA(S) AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS. CONCRETE WASHOUT(S) SHOULD BE FLAGGED WITH SAFETY FENCING OR OTHER APPROVED METHOD.
 4. CONCRETE WASHOUT(S) ARE TO BE INSPECTED AT LEAST ONCE A WEEK FOR STRUCTURAL INTEGRITY, ADEQUATE HOLDING CAPACITY, LEAKS, TEARS, OR OVERFLOWS. CONCRETE WASHOUTS SHALL ALSO BE CHECKED AFTER HEAVY RAINS.
 5. HARDENED CONCRETE WASTE SHOULD BE REMOVED AND DISPOSED OF WHEN THE WASTE HAS ACCUMULATED TO HALF OF THE CONCRETE WASHOUT'S DEPTH. THE WASTE CAN BE STORED AT AN UPLAND LOCATION, AS APPROVED BY THE ENGINEER. ALL CONCRETE WASTE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH ALL APPLICABLE LAWS, REGULATIONS, AND GUIDELINES.



Scale For Microfitting
 1/8" = 1'-0"

A
 B
 C
 D
 E
 F
 G
 H
 I

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no.	date	by	ckd	description
B	07/29/19	KJE	-	ISSUED FOR PERMITTING
A	07/15/19	KJE	-	ISSUED FOR REVIEW

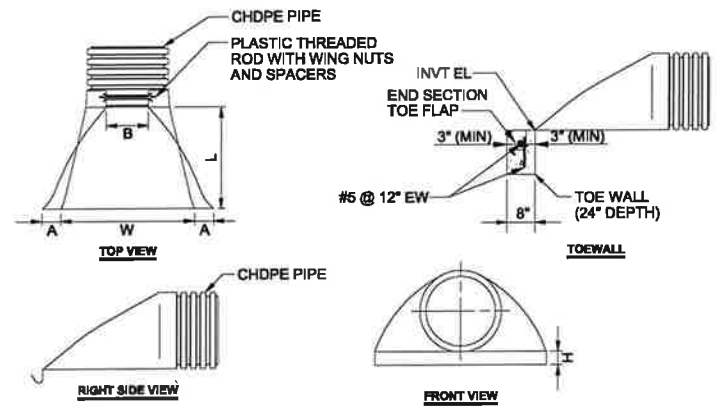
BURNS & MCDONNELL
 9400 WARD PARKWAY
 KANSAS CITY, MO 64114
 816-333-9400
 FIRM LICENSE NO. PEC 000341

designed: K. ENGHOLM
 detailed: S. NICHOLS

ISSUED FOR PERMITTING

KILLINGLY ENERGY CENTER
 1X1 COMBINED CYCLE - MHPS
 WINDHAM COUNTY, CONNECTICUT

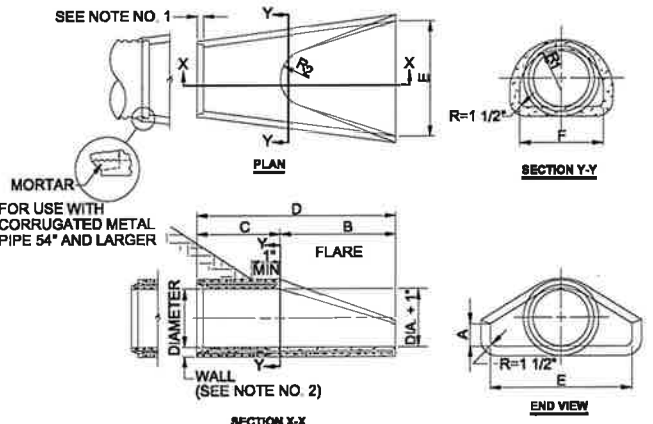
NTE CONNECTICUT, LLC EROSION & SEDIMENT CONTROL DETAILS SHEET 2	
project	contract
111689	
drawing	rev.
CG333	B
sheet 1	of 1 sheets
file 111689 CG333.DGN	



DIMENSIONS FOR CHDPE CULVERT END

PIPE SIZE (IN)	A (IN)	B (IN, MAX)	H (IN)	L (IN)	W (IN)
15	6.50	10.00	6.50	25.00	29.00
18	7.50	15.00	6.50	32.00	35.00
24	7.50	18.00	6.50	36.00	45.00

FLARED END SECTION DETAIL (CHDPE)
NOT TO SCALE

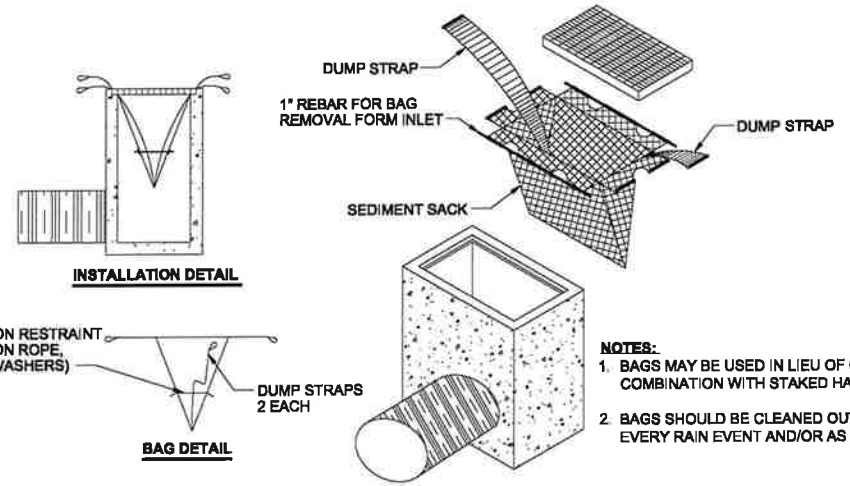


- NOTES:**
1. JOINTS SHALL BE TONGUE AND GROOVE OR BELL AND SPIGOT AS REQUIRED TO CONFORM TO PIPE INSTALLED.
 2. WALL THICKNESS SHALL CONFORM TO PIPE THICKNESS.

DIMENSIONS FOR REINFORCED CONCRETE CULVERT END

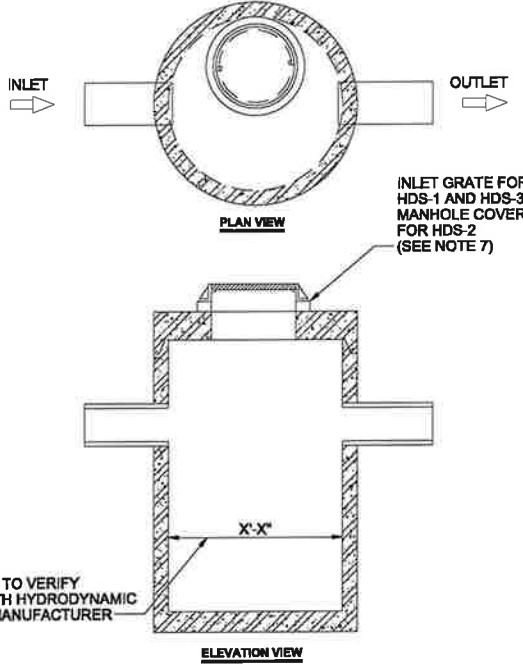
DIA.	A	B	C	D	E	F	R1	R2	FLARED REINFORCEMENT	FLARED REINFORCEMENT
15"	6"	2'-3"	3'-10"	8'-1"	2'-6"	2'-0 5/8"	1'-0 1/2"	11"	0.054	0.054

FLARED END SECTION DETAIL (REINFORCED CONCRETE)
NOT TO SCALE



- NOTES:**
1. BAGS MAY BE USED IN LIEU OF OR IN COMBINATION WITH STAKED HAYBALES
 2. BAGS SHOULD BE CLEANED OUT AFTER EVERY RAIN EVENT AND/OR AS NEEDED.

SILT BAG INLET SEDIMENT CONTROL DEVICE
NOT TO SCALE



- NOTES (HYDRODYNAMIC SEPARATOR):**
1. WATER QUALITY STRUCTURE SHALL MEET CT DEEP DESIGN REQUIREMENTS. THE WATER QUALITY FLOW SHALL BE DIRECTED TO THE STRUCTURE, AND THE STRUCTURE SHALL BE DESIGNED TO TREAT THE WATER QUALITY FLOW STATED BELOW. FLOWS GREATER THAN THE WATER QUALITY FLOW SHALL BE BY-PASSED.
 2. HYDRODYNAMIC SEPARATOR SHALL BE CONTAINED IN ONE CIRCULAR STRUCTURE.
 3. HYDRODYNAMIC SEPARATOR SHALL RETAIN FLOATABLES AND TRAPPED SEDIMENT UP TO AND INCLUDING PEAK TREATMENT CAPACITY.
 4. HYDRODYNAMIC SEPARATOR SHALL NOT BE COMPROMISED BY EFFECTS OF DOWNSTREAM TAILWATER.
 5. HYDRODYNAMIC SEPARATOR SHALL HAVE NO INTERNAL COMPONENTS THAT OBSTRUCT MAINTENANCE ACCESS.
 6. PIPE ORIENTATION MAY VARY; SEE SITE PLAN FOR SIZE AND LOCATION.
 7. CAST IRON MANHOLE FRAMES, GRATES, AND COVERS CAPABLE OF WITHSTANDING H20 LOADING TO BE SUPPLIED WITH SYSTEM; SUBCONTRACTOR IS RESPONSIBLE FOR RISERS AND INSTALLATION.
 8. SUBCONTRACTOR SHALL PREPARE EXCAVATION AND PROVIDE EQUIPMENT FOR OFF-LOADING & SETTING AT TIME OF DELIVERY.
 9. SUBCONTRACTOR SHALL HAVE THE HYDRODYNAMIC SEPARATOR INSPECTED BY THE MANUFACTURER'S REPRESENTATIVE FOR PROPER INSTALLATION. SUBCONTRACTOR SHALL OBTAIN FROM THE REPRESENTATIVE WRITTEN CONFIRMATION THAT THE UNIT IS INSTALLED ACCORDING TO THE MANUFACTURER'S REQUIREMENTS AND WILL BE COVERED UNDER THE MANUFACTURER'S WARRANTY.
 10. HYDRODYNAMIC SEPARATOR SHALL BE APPROVED BY CONNDOT. AS OF APRIL 2010, THE FOLLOWING ACCEPTABLE MODELS/MANUFACTURERS WERE APPROVED:

- DOWNSTREAM DEFENDER - HYDRO INTERNATIONAL
- CDS - CONTECH
- VORTSENTRY - CONTECH
- HYDROGUARD - HYDROWORKS LLC
- STORMCEPTOR - RINKER MATERIALS

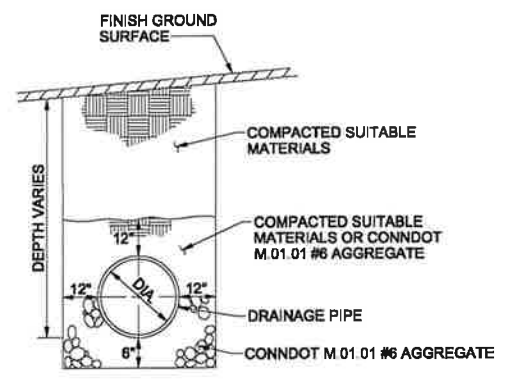
11. HYDRODYNAMIC SEPARATOR MANUFACTURER SHALL PROVIDE TRAINING TO OWNER'S MAINTENANCE STAFF ON PROPER MAINTENANCE OF UNIT.

HYDRODYNAMIC SEPARATOR DESIGN DATA

LOCATION	HDS-1	HDS-2	HDS-3
DRAINAGE AREA (AC)	1.18	2.89	9.87
IMPERVIOUS AREA (AC)	0.42	0.91	2.97
WATER QUALITY FLOW RATE (CFS)	0.29	0.48	1.58
WATER QUALITY VOLUME (AC-FT)	0.036	0.080	0.264
PEAK FLOWRATE FOR 10-YEAR STORM QPEAK (CFS)	2.4	7.0	24.9

HYDRODYNAMIC SEPARATOR TO HAVE MINIMUM 1.0 CY OF SEDIMENT STORAGE

HYDRODYNAMIC SEPARATOR
NOT TO SCALE



DRAINAGE PIPE INSTALLATION DETAIL
NOT TO SCALE

ISSUED FOR PERMITTING

BURNS & MCDONNELL

9400 WARD PARKWAY
KANSAS CITY, MO 64114
816-333-9400
FIRM LICENSE NO. PEC.000341

designed: K. ENGHOLM
detailed: S. NICHOLS

NTE CONNECTICUT, LLC
MISCELLANEOUS DETAILS

project: 111889 contract: _____
drawing: CG334 - B rev: _____
sheet 1 of 1 sheets
file 111889 CG334.DGN

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no.	date	by	ckd	description	no.	date	by	ckd	description
B	07/29/19	KJE	-	ISSUED FOR PERMITTING					
A	07/15/19	KJE	-	ISSUED FOR REVIEW					

Appendix E

In accordance with RCSA 16-50j-60 through 16-50j-62, NTE hereby submits information as required under the applicable section of RCSA 16-50j-61.

Requirement	Description
16-50j-61 (c) (2) (C)	Precautions and all reasonable mitigation measures to be taken in areas within or adjoining the site to minimize any adverse impacts of such actions or modifications on endangered, threatened or special concern plant or animal species listed by federal and state governmental agencies and critical habitats that are in compliance with federal and state recommended standards and guidelines, as amended;
16-50j-61 (c) (2) (D)	Plans for modification and rehabilitation of surface, drainage, and other hydrologic features;
16-50j-61 (c) (2) (E)	Plans for watercourse bank restoration in accordance with the provisions of Chapter 440 of the Connecticut General Statutes;
16-50j-61 (c) (2) (F)	Plans for the protection of historical and archaeological resources with review and comment from a state historic preservation officer of the Department of Economic and Community Development, or its successor agency

Protection of Listed Species and Critical Habitats (16-50j-61 (c) (2) (F))

Detailed habitat investigation and correspondence with both CT DEEP and the United States Fish and Wildlife Service ("USFWS") was completed as a part of proceedings associated with Docket 470B. As a result of this review and consultation, protective and mitigation measures were identified for several species that have the potential for presence in the vicinity of KEC. The specific measures are noted below, with identification of the relevance for this phase of construction activity:

- Creation of upland Lepidoptera habitat – A 3,700 square foot area has been identified for future creation of a habitat area conducive to certain butterfly and moth usage. The area identified will be demarcated with construction fencing to separate it from the construction work area in order to minimize the potential for compaction due to heavy equipment travel. The fencing will be placed as a part of the activities addressed in the Phase 1 D&M Plan. Additional details regarding the implementation of the habitat creation and invasives control, consistent with CT DEEP requirements, will be provided in the Phase 3 D&M Plan.
- Tree clearing will not occur during the months of June or July in order to avoid the pup season for listed bat species. If clearing occurs outside of these months, no special bat protection measures will be required.
- If the Phase 1 construction activities occur between the eastern box turtles' active period of April 1 through November 1, precautionary turtle protection measures will be implemented as follows:
 - Prior to construction (including blasting and grading, as well as major tree clearing), silt fencing will be installed around the work area. Limited tree clearing, to allow for silt fencing installation will occur prior to fencing installation, but equipment traffic will be

limited until it is established. The area within the perimeter of the fencing will be canvassed by a qualified individual one day prior to installation of the silt fencing, and for five consecutive days following installation for the presence of turtles. Any turtles found within the bounds of the silt fence shall be relocated outside the bounds of the silt fence.

- During construction:
 - The work crews will be apprised of the species description and possible presence.
 - Work crews will be required to search the work area for turtles prior to the start of each construction day.
 - Any turtle encountered in the work area will be moved unharmed to an area immediately outside the fenced area and oriented in the same direction it was walking when found.
 - All precautionary measures will be taken to avoid degradation to wetland habitats. No work is proposed in such areas on the GFS. On the SYS, authorized work in the wetland should occur with special care to not harm basking or foraging turtles.
 - Precautions will be taken to avoid turtles when heavy machinery or vehicles are traveling to the work area.
 - All silt fencing will be removed after work is completed (after Phase 3 construction activities) when soils are stable so that reptile and amphibian movement between uplands and wetlands is not restricted.

Modification and Rehabilitation of Surface, Drainage and Other Hydrologic Features (16-50j-61 (c) (2) (D))

KEC construction activities will be conducted in accordance with an approved SWPCP that is intended to preserve existing drainage patterns and provide for water quality protection. Although KEC-related activities will alter existing ground surface, both temporary and permanent BMPs will be integrated into the construction effort to minimize the effect of those modifications on surrounding areas. The DEEP approval of the SWPCP will be provided to the CSC once received.

Watercourse Bank Restoration (16-50j-61 (c) (2) (E))

No watercourse bank impact is proposed and, therefore, no watercourse bank restoration will be required.

Protection of Historical and Archaeological Resources (16-50j-61 (c) (2) (F))

Detailed surveys for potential historical and archaeological resources were completed as part of Docket 470B. None of the structures proposed to be demolished were determined to have historic resource value and the Connecticut Department of Economic and Community Development concurred that no historic properties will be affected by KEC. In addition, no significant archaeological resources were identified within the KEC work area.

The private cemetery located on the SYS will be protected during construction. As recommended by the Deputy State Historic Preservation Officer, the area within 50 feet of the cemetery will be marked on construction maps as a sensitive resource. Although limited work will occur within that area, it will be undertaken with special precautions to avoid impact to the cemetery.

Appendix F

Attachment 1 – Water Connection Route

Attachment 2 – Sewer Connection Route

In accordance with the CECPN Findings of Fact for Docket No. 470b, NTE hereby submits the Water and Sewer Connection Routes, which include the following features as required under the applicable section of the CECPN Findings of Fact.

Requirement	Description
CECPN Req. (c)	Water and sewer connection routes;

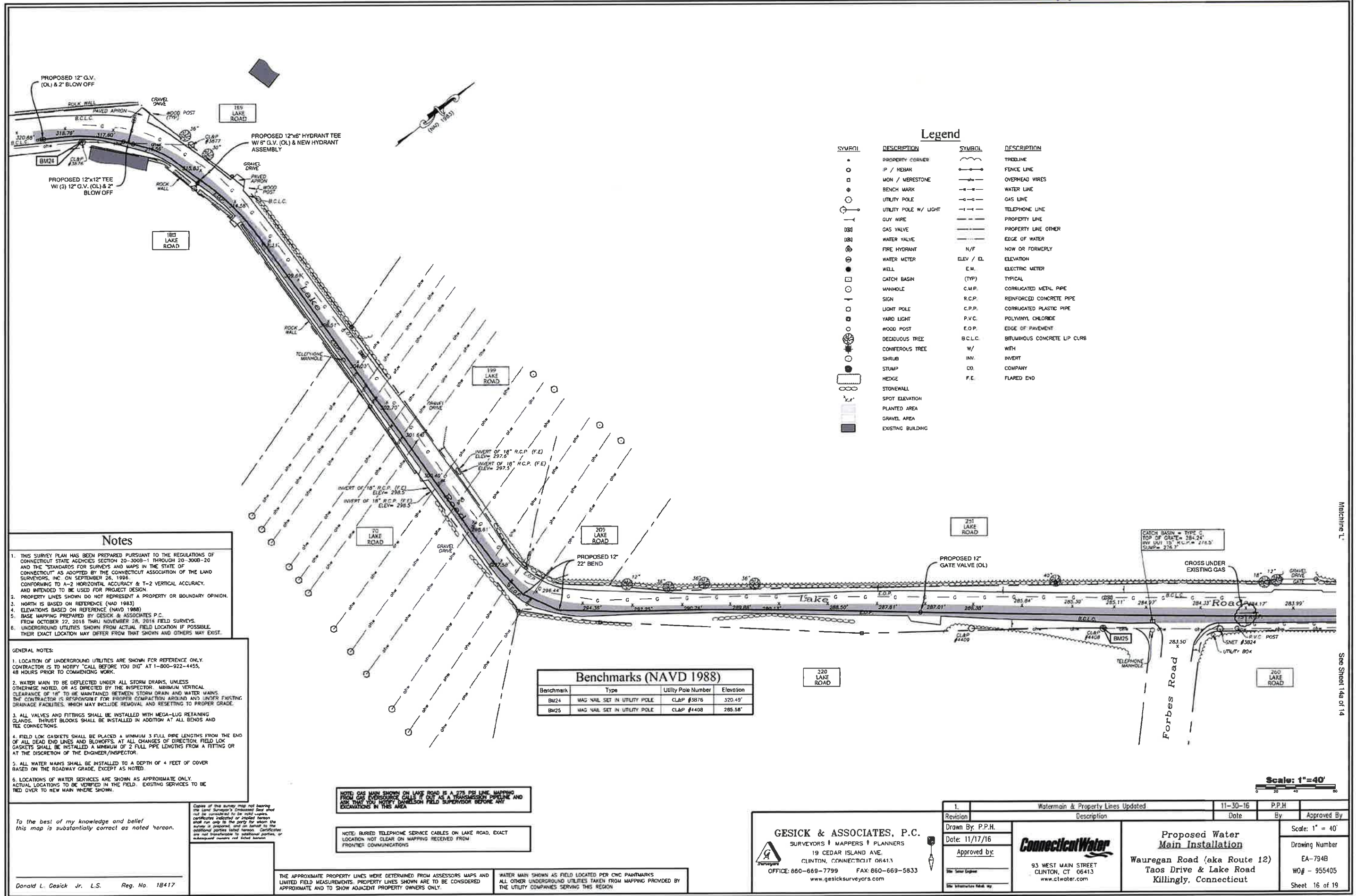
The existing water and sewer connections are currently located on Lake Road; near the intersections of Lake Road/Louisa Viens Drive and Lake Road/Forbes Road respectively, approximately 3,150 and 2,700 linear feet from the KEC Site entrance. Both the water and sewer connections will be extended to the KEC Site. This work will take place in tandem with the Lake Road improvements in order to minimize disruptions.

NTE has executed a Customer Refundable Advance Payment Agreement to allow for Connecticut Water to install 3,150 linear feet of 12-inch ductile iron water main between Louisa Viens Drive and the KEC Site. This work will be completed within 90 days after NTE provides Connecticut Water notice to proceed, which will be provided upon KEC's financial close. The water main extension and all other work installed will be property of Connecticut Water.

In addition, under a separate Customer Refundable Advanced Payment Agreement, Connecticut Water will install approximately 11,750 linear feet of 12-inch ductile iron water main and 1,400 feet of 16-inch ductile iron main in order to interconnect Connecticut Water's Plainfield water system with its Crystal water system, ensuring reliability on both systems. This work will be completed within 16 months after NTE provides Connecticut Water notice to proceed, which will be provided upon KEC's financial close.

Wastewater from the facility will be discharged into an existing municipal wastewater treatment system, which has been certified to be capable of meeting the facility's projected discharge volumes. The existing sewer main is located west of the intersection of Lake Road and Louisa Viens Drive, and would require an extension of approximately 2,700 linear feet to the KEC access drive. Piping work would be located within limits of local roadways as shown in Attachment 2 of this Appendix.

In accordance with CSC Finding of Fact #210 (Killingly Regulate and Restrict Order), the respective contractors responsible for the work will apply to the Town of Killingly for the required permits and gain approval prior to starting any work in the Town's right-of-way or roadway.



Legend

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
•	PROPERTY CORNER	—	TREELINE
○	IP / HERMAN	—	FENCE LINE
◻	MON / VERESTONE	—	OVERHEAD WIRES
◊	BENCH MARK	—	WATER LINE
○	UTILITY POLE	—	GAS LINE
○	UTILITY POLE W/ LIGHT	—	TELEPHONE LINE
—	GUY WIRE	—	PROPERTY LINE
○	GAS VALVE	—	PROPERTY LINE OTHER
○	WATER VALVE	—	EDGE OF WATER
○	FIRE HYDRANT	N/F	NOW OR FORMERLY
○	WATER METER	ELEV / EL	ELEVATION
○	WELL	E.M.	ELECTRIC METER
○	CATCH BASIN	(TYP)	TYPICAL
○	MANHOLE	C.M.P.	CORRUGATED METAL PIPE
—	SIGN	R.C.P.	REINFORCED CONCRETE PIPE
○	LIGHT POLE	C.P.P.	CORRUGATED PLASTIC PIPE
○	YARD LIGHT	P.V.C.	POLYVINYL CHLORIDE
○	WOOD POST	E.O.P.	EDGE OF PAVEMENT
○	DECIDUOUS TREE	B.C.L.C.	BITUMINOUS CONCRETE LIP CURB
○	CONIFEROUS TREE	W/	WITH
○	SHRUB	INV.	INVERT
○	STUMP	CO.	COMPANY
○	HEDGE	F.E.	FLARED END
○	STONEWALL		
○	SPOT ELEVATION		
○	PLANTED AREA		
○	GRAVEL AREA		
○	EXISTING BUILDING		

Notes

- THIS SURVEY PLAN HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTION 20-300B-1 THROUGH 20-300B-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF THE LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996. CONFORMING TO A-2 HORIZONTAL ACCURACY & T-2 VERTICAL ACCURACY, AND INTENDED TO BE USED FOR PROJECT DESIGN.
- PROPERTY LINES SHOWN DO NOT REPRESENT A PROPERTY OR BOUNDARY OPINION.
- NORTH IS BASED ON REFERENCE (NAVD 1983).
- ELEVATIONS BASED ON REFERENCE (NAVD 1988).
- BASE MAPPING PREPARED BY GESICK & ASSOCIATES P.C. FROM OCTOBER 22, 2016 THRU NOVEMBER 26, 2014 FIELD SURVEYS.
- UNDERGROUND UTILITIES SHOWN FROM ACTUAL FIELD LOCATION IF POSSIBLE. THEIR EXACT LOCATION MAY DIFFER FROM THAT SHOWN AND OTHERS MAY EXIST.

GENERAL NOTES:

- LOCATION OF UNDERGROUND UTILITIES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR IS TO NOTIFY "CALL BEFORE YOU DIG" AT 1-800-922-4455, 48 HOURS PRIOR TO COMMENCING WORK.
- WATER MAIN TO BE DEFLECTED UNDER ALL STORM DRAINS, UNLESS OTHERWISE NOTED, OR AS DIRECTED BY THE INSPECTOR. MINIMUM VERTICAL CLEARANCE OF 1" TO BE MAINTAINED BETWEEN STORM DRAIN AND WATER MAINS. THE CONTRACTOR IS RESPONSIBLE FOR PROPER COMPACTATION AROUND AND UNDER EXISTING DRAINAGE FACILITIES, WHICH MAY INCLUDE REMOVAL AND RESETTING TO PROPER GRADE.
- ALL VALVES AND FITTINGS SHALL BE INSTALLED WITH MEGA-LUG RETAINING CLAMPS. THRUST BLOCKS SHALL BE INSTALLED IN ADDITION AT ALL BENDS AND TEE CONNECTIONS.
- FIELD LOCK CASKETS SHALL BE PLACED A MINIMUM 3 FULL PIPE LENGTHS FROM THE END OF ALL DEAD END LINES AND BLOWOFFS. AT ALL CHANGES OF DIRECTION, FIELD LOCK CASKETS SHALL BE INSTALLED A MINIMUM OF 2 FULL PIPE LENGTHS FROM A FITTING OR AT THE DISCRETION OF THE ENGINEER/INSPECTOR.
- ALL WATER MAINS SHALL BE INSTALLED TO A DEPTH OF 4 FEET OF COVER BASED ON THE ROADWAY GRADE, EXCEPT AS NOTED.
- LOCATIONS OF WATER SERVICES ARE SHOWN AS APPROXIMATE ONLY. ACTUAL LOCATIONS TO BE VERIFIED IN THE FIELD. EXISTING SERVICES TO BE TIED OVER TO NEW MAIN WHERE SHOWN.

Benchmarks (NAVD 1988)

Benchmark	Type	Utility Pole Number	Elevation
BM24	MAG NAIL SET IN UTILITY POLE	CLAP #3876	320.49'
BM25	MAG NAIL SET IN UTILITY POLE	CLAP #4408	285.58'

NOTE: GAS MAIN SHOWN ON LAKE ROAD IS A 275 PSI LINE. MAPPING FROM GAS PROVIDER CALLS IT OUT AS A TRANSMISSION PIPELINE AND ASK THAT YOU NOTIFY DANIELSON FIELD SUPERVISOR BEFORE ANY EXCAVATIONS IN THIS AREA.

NOTE: BURIED TELEPHONE SERVICE CABLES ON LAKE ROAD, EXACT LOCATION NOT CLEAR ON MAPPING RECEIVED FROM FRONTIER COMMUNICATIONS.

THE APPROXIMATE PROPERTY LINES WERE DETERMINED FROM ASSESSORS MAPS AND LIMITED FIELD MEASUREMENTS. PROPERTY LINES SHOWN ARE TO BE CONSIDERED APPROXIMATE AND TO SHOW ADJACENT PROPERTY OWNERS ONLY.

WATER MAIN SHOWN AS FIELD LOCATED PER CMC PARTNERS ALL OTHER UNDERGROUND UTILITIES TAKEN FROM MAPPING PROVIDED BY THE UTILITY COMPANIES SERVING THIS REGION.

To the best of my knowledge and belief this map is substantially correct as noted hereon.

Donald L. Gesick Jr., L.S. Reg. No. 18417

GESICK & ASSOCIATES, P.C.
 SURVEYORS | MAPPERS | PLANNERS
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 CLINTON, CONNECTICUT 06413
 OFFICE: 860-669-7799 FAX: 860-669-5833
 www.gesicksurveyors.com

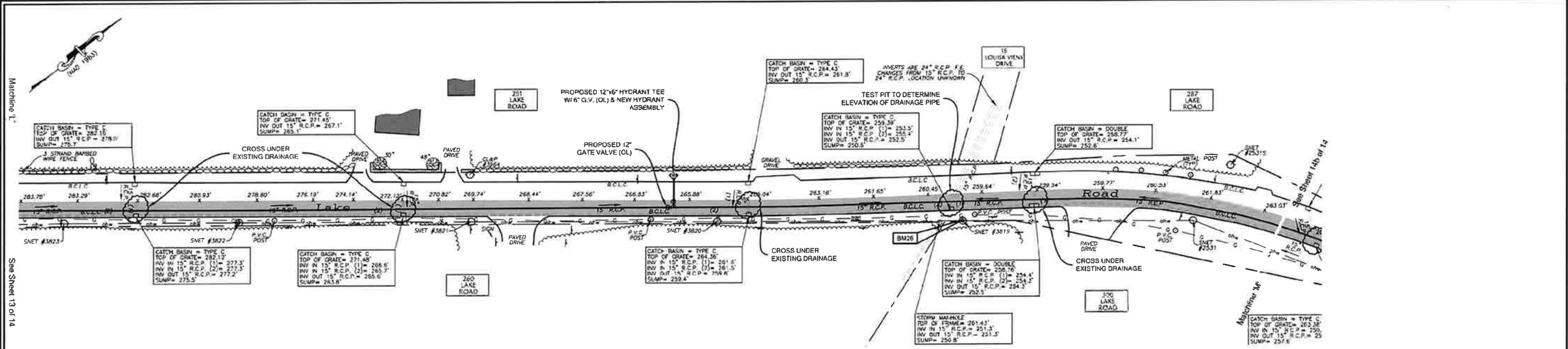
1.	Watermain & Property Lines Updated	11-30-16	P.P.H.	
Revision	Description	Date	By	Approved By
Drawn By: P.P.H.		Date: 11/17/16		
Approved by:				
Site Senior Engineer				
Site Information Mktg. Sp.				

ConnecticutWater
 93 WEST MAIN STREET
 CLINTON, CT 06413
 www.ctwater.com

Proposed Water Main Installation
 Wauregan Road (aka Route 12)
 Taos Drive & Lake Road
 Killingly, Connecticut

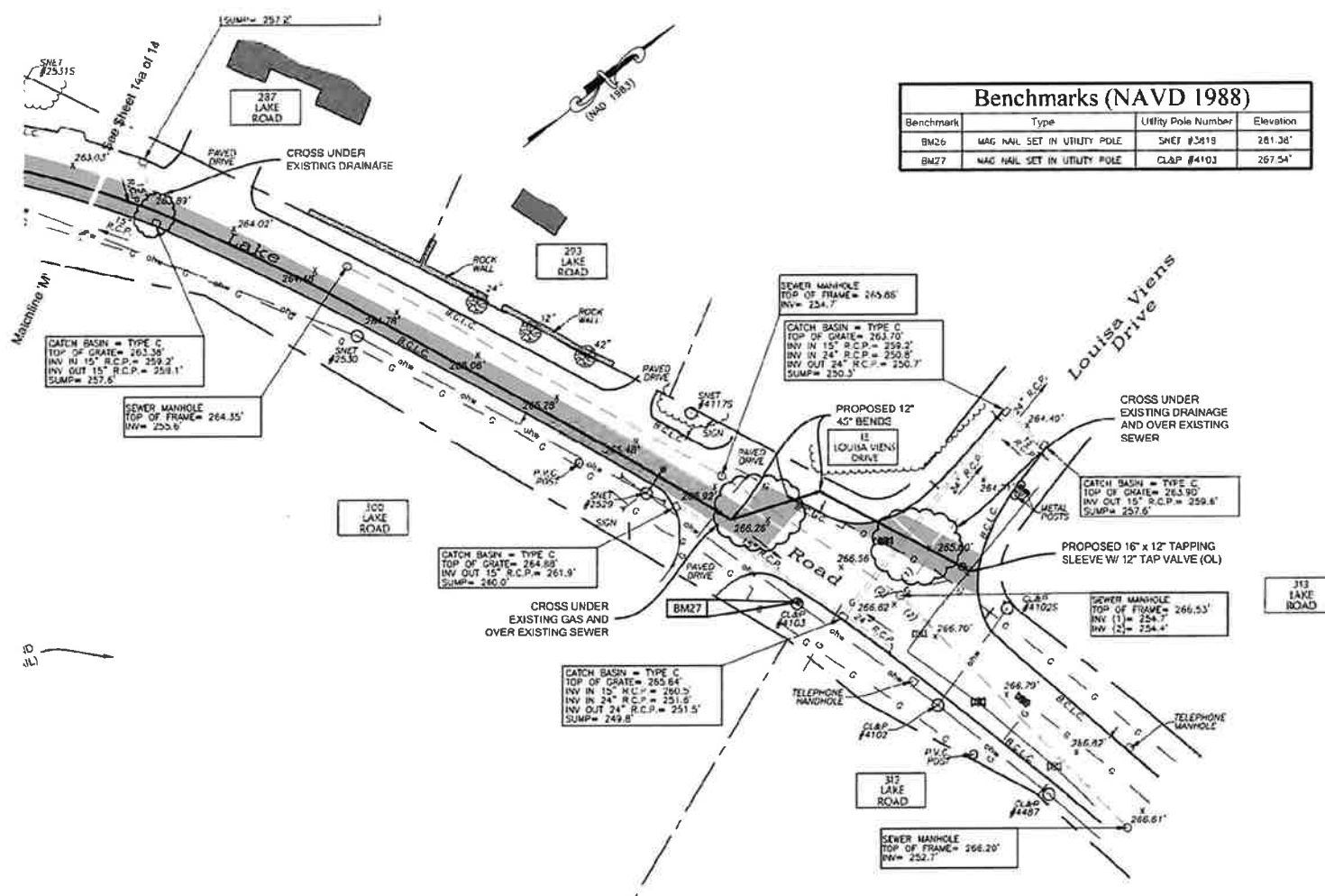
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 Drawing Number: EA-794B
 WO# - 955405
 Sheet 16 of 19

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 See Sheet 14a of 14



NOTE: GAS MAIN SHOWN ON LAKE ROAD IS A 275 PSI LINE. MAPPING FROM GUY WINDSOR, CALLS IT OUT AS A TRANSMISSION PIPELINE AND ASKS THAT YOU NOTIFY WINDSOR FIELD SUPERVISOR BEFORE ANY DIGATIONS IN THIS AREA.

NOTE: BURIED TELEPHONE SERVICE CABLES ON LAKE ROAD, EXACT LOCATION NOT CLEAR ON MAPPING RECEIVED FROM FRONTIER COMMUNICATIONS.



Benchmarks (NAVD 1988)			
Benchmark	Type	Utility Pole Number	Elevation
BM26	MAG NAIL SET IN UTILITY POLE	SHEET #3615	261.36'
BM27	MAG NAIL SET IN UTILITY POLE	CLAP #4103	267.54'

Legend			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
•	PROPERTY CORNER	—	TREELINE
○	IP / REBAR	—	FENCE LINE
□	MON / MESTONE	—	OVERHEAD WIRES
●	BENCH MARK	—	WATER LINE
○	UTILITY POLE	—	GAS LINE
○	UTILITY POLE W/ LIGHT	—	TELEPHONE LINE
—	GUY WIRE	—	PROPERTY LINE
⊕	GAS VALVE	—	PROPERTY LINE OTHER
⊕	WATER VALVE	—	EDGE OF WATER
⊕	FIRE HYDRANT	N/F	HOW OR FORMERLY
⊕	WATER METER	ELEV / EL	ELEVATION
⊕	WELL	E.M.	ELECTRIC METER
⊕	CATCH BASIN	(TYP)	TYPICAL
⊕	MANHOLE	C.M.P.	CORRUGATED METAL PIPE
⊕	SIGN	R.C.P.	REINFORCED CONCRETE PIPE
⊕	LIGHT POLE	C.P.P.	CORRUGATED PLASTIC PIPE
⊕	YARD LIGHT	P.V.C.	POLYVINYL CHLORIDE
⊕	WOOD POST	E.O.P.	EDGE OF PAVEMENT
⊕	DECIDUOUS TREE	B.C.L.C.	BITUMINOUS CONCRETE LP CURB
⊕	CONIFEROUS TREE	W/	WITH
⊕	SHRUB	INV.	INVERT
⊕	STUMP	CO.	COMPANY
⊕	HEDGE	F.E.	FLARED END
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⊕	SPOT ELEVATION		
⊕	PLANTED AREA		
⊕	GRAVEL AREA		
⊕	EXISTING BUILDING		

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 3. ALL VALVES AND FITTINGS SHALL BE INSTALLED WITH MEGA-LUG RETAINING CLANDS. THRUST BLOCKS SHALL BE INSTALLED IN ADDITION AT ALL BENDS AND TEE CONNECTIONS.
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 5. ALL WATER MAINS SHALL BE INSTALLED TO A DEPTH OF 4 FEET OF COVER BASED ON THE ROADWAY GRADE, EXCEPT AS NOTED.
 6. LOCATIONS OF WATER SERVICES ARE SHOWN AS APPROXIMATE ONLY. ACTUAL LOCATIONS TO BE VERIFIED IN THE FIELD. EXISTING SERVICES TO BE TIED OVER TO NEW MAIN WHERE SHOWN.

Notes

1. THIS SURVEY PLAN HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTION 20-3009-1 THROUGH 20-3009-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF THE LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996, CONFORMING TO A-2 HORIZONTAL ACCURACY & T-2 VERTICAL ACCURACY, AND INTENDED TO BE USED FOR PROJECT DESIGN.
2. PROPERTY LINES SHOWN DO NOT REPRESENT A PROPERTY OR BOUNDARY OPINION.
3. NORTH IS BASED ON REFERENCE (NAID 1983).
4. ELEVATIONS BASED ON REFERENCE (NAVD 1988).
5. BASE MAPPING PREPARED BY GESICK & ASSOCIATES P.C. FROM OCTOBER 22, 2016 THRU NOVEMBER 28, 2016. FIELD SURVEYS, LIMITED FIELD MEASUREMENTS, PROPERTY LINES SHOWN ARE TO BE CONSIDERED APPROXIMATE AND TO SHOW ADJACENT PROPERTY OWNERS ONLY.
6. UNDERGROUND UTILITIES SHOWN FROM ACTUAL FIELD LOCATION IF POSSIBLE. THEIR EXACT LOCATION MAY DIFFER FROM THAT SHOWN AND OTHERS MAY EXIST.

To the best of my knowledge and belief this map is substantially correct as noted hereon.

Donald L. Gesick Jr., L.S. Reg. No. 18417

Copies of this survey map not bearing the Land Surveyor's Commission Seal shall not be considered to be valid copies. Certificate indicated on stamped survey shall run only to the party for whom the survey is prepared, and on behalf of the additional parties listed herein. Certificates are not transferable to additional parties, or subsequent owners, and shall remain the property of the Surveyor.

WATER MAIN SHOWN AS FIELD LOCATED PER CIVIC PARITMARKS ALL OTHER UNDERGROUND UTILITIES TAKEN FROM MAPPING PROVIDED BY THE UTILITY COMPANIES SERVING THIS REGION.

THE APPROXIMATE PROPERTY LINES WERE DETERMINED FROM ASSESSORS MAPS AND LIMITED FIELD MEASUREMENTS. PROPERTY LINES SHOWN ARE TO BE CONSIDERED APPROXIMATE AND TO SHOW ADJACENT PROPERTY OWNERS ONLY.

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 SURVEYORS | MAPPERS | PLANNERS
 19 CEDAR ISLAND AVE.
 CLINTON, CONNECTICUT 06413
 OFFICE: 860-669-7799 FAX: 860-669-5833
 www.gesicksurveyors.com

1. Revision
 Description
 Date: 11/17/16
 Approved by:
 Site Engineer
 Site Infrastructure Maint. Mgr.

Watermain & Property Lines Updated
 11-30-16
 P.P.H.
 By
 Approved By

Proposed Water Main Installation
 Wauregan Road (aka Route 12)
 Taos Drive & Lake Road
 Killingly, Connecticut

Scale: 1" = 40'
 Drawing Number: EA-794C
 WO# - 955405
 Sheet 17 of 19

Scale: 1"=40'




1 2 3 4 5 6 7 8 9 10 11 12 13 14

no.	date	by	ckd	description
A	7/12/19	IWC	JLY	FOR REVIEW



NOT FOR CONSTRUCTION

GENERAL LAYOUT SHEET LEGEND

-  EXISTING MANHOLE
-  EXISTING SANITARY SEWER
-  PROPOSED SANITARY SEWER



NOTES:

- PRELIMINARY ROUTING, SUBJECT TO CHANGE DURING DETAIL DESIGN



9400 WARD PARKWAY
KANSAS CITY, MO 64114
816-333-9400
LICENSEE NO. PEC 000341

date June 4, 2019	detailed I. CAUBLE
designed G. DOWNS	checked W. MARGHEIM

project 116572		contract	
drawing SS-SK-001-		rev. A	
sheet XX of XX sheets		fig. 116572 GEN. LAYOUT REVIEW.dwg	

**SANITARY SEWER ADDITION
GENERAL LAYOUT**

Appendix G

Attachment 1 – Phase 1 Project Schedule

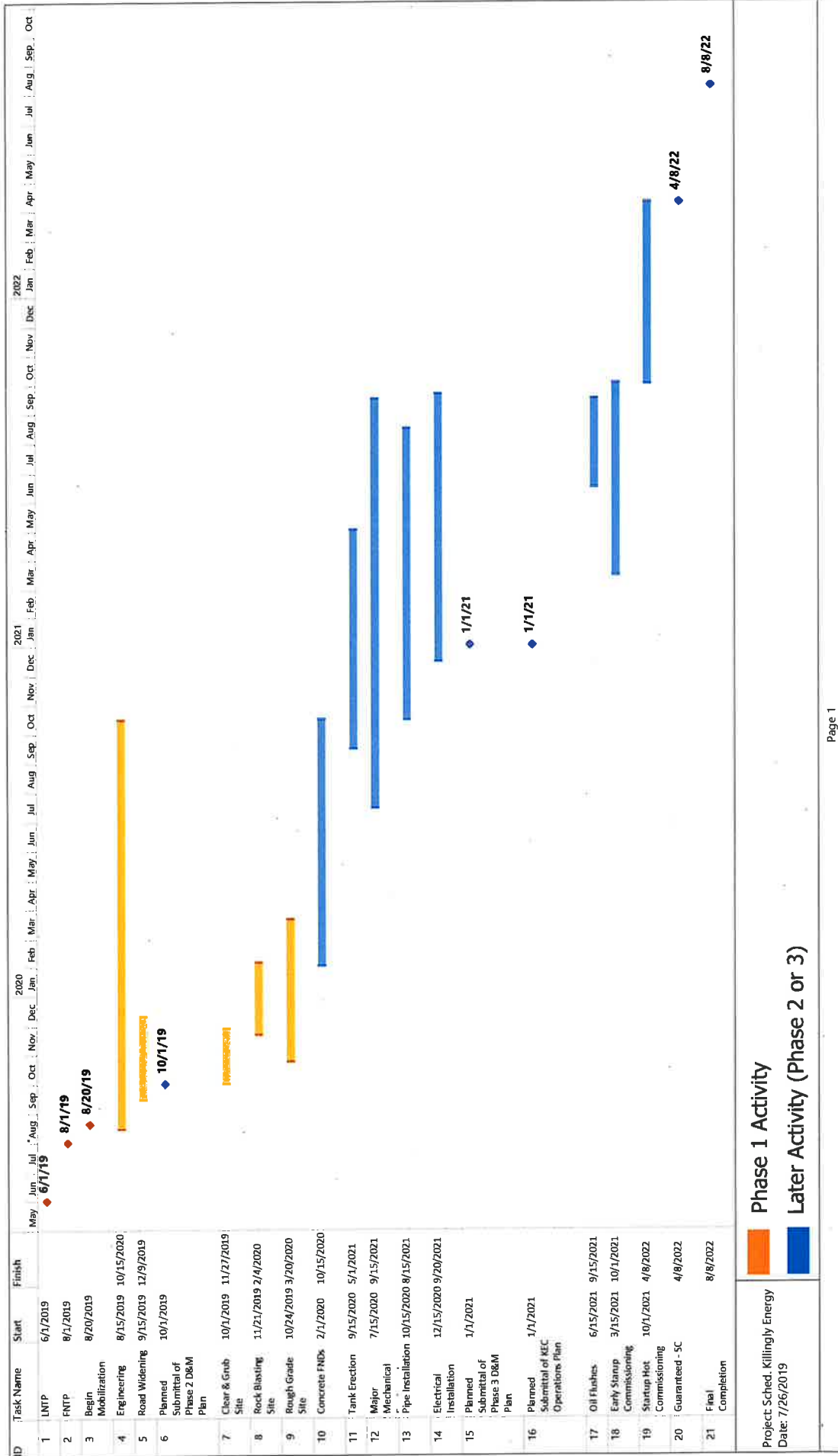
In accordance with CECPN Findings of Fact for Docket No. 470b, NTE hereby submits the Phase 1 Project Schedule, which includes the following features as required under the applicable section of the CECPN Findings of Fact.

Requirement	Description
CECPN Req. (d)	Detailed project schedules for all work activities and proposed construction hours

The attached Project Schedule includes all activities to be performed under the Phase 1 of this D&M plan, including site mobilization, clearing and grubbing, limited blasting, and rough grading. Several other high-level activities are listed in this schedule, however, schedule details for other activities not covered under Phase 1 of this D&M Plan will be included in both Phases 2 and 3. Anticipated submittal dates for Phases 2 and 3 of this D&M plan are shown in the schedule contained in Attachment 1 of this Appendix.

The KEC project team will meet with the Town of Killingly prior to start of any construction to walk through the Project Schedule and will thereafter submit an update electronically on a frequency agreed to between the Town of Killingly and NTE, which is consistent with CSC Finding of Fact #222 (Town of Killingly Regulate and Restrict Order).

Regularly planned construction work hours will be from 7:00 am to 7:00 pm Monday through Saturday. Sunday work will only be used for make-up days and during commissioning. Limited night shift work will occur Monday through Friday on a as needed basis. No night shift work will occur during Phase 1 activities.



Phase 1 Activity

Later Activity (Phase 2 or 3)

Project Sched. Killingly Energy
Date: 7/26/2019

Appendix H

Attachment 1 – Emergency Response Action and Fire Prevention Plan

In accordance with RCSA 16-50j-60 through 16-50j-62, and the CECPN Findings of Fact for Docket No. 470b, NTE hereby submits the Emergency Response Action and Fire Prevention Plan, which includes the following features as required under the applicable sections of RCSA 16-50j-61 and the CECPN Findings of Fact.

Requirement	Description
16-50j-61 (c) (8)	Contact information for the personnel of the contractor assigned to the project;
CECPN Req. (g)	Emergency response/safety plan per Condition No. 1(g) of the Decision

In accordance with Condition 1 (g) of the CSC Findings of Fact, NTE, in close coordination with its selected contractor, is currently developing a comprehensive Emergency Response/Safety Plan in cooperation with the Town of Killingly which will include the establishment of an emergency responder/local community notification system for on-site emergencies and planned construction-related activities that could cause community alarm. As outlined in the Condition, this system will include notification to local emergency responders, city or town officials, state legislators, and residents that wish to participate. This notification system will be provided to the CSC and the Town of Killingly prior to the start of construction activities.

Consistent with CSC Findings of Fact #201 through #205 (Town of Killingly Regulate and Restrict Orders), a designated team of on-site personnel will be available during construction and will be trained to respond to emergency situations. A permanent first aid station/trailer will be established and maintained throughout construction. Permanent access/egress and signage will be established immediately upon the start of construction for emergency vehicles.

Contact information for key NTE and contractor personnel, as well as applicable local hospital, police, fire and Town of Killingly representatives are integrated into the attached plan.



KILLINGLY ENERGY CENTER

Emergency Response Action and Fire Prevention Plan

THIS IS A DRAFT VERSION OF THE EMERGENCY ACTION PLAN THAT WILL BE USED AT THE KILLINGLY ENERGY CENTER. THIS DOCUMENT WILL BE REVISED ON A REGULAR BASIS AS THE PROJECT PROGRESSES. REVISION 0 OF THIS DOCUMENT WILL BE ISSUED WITHIN 30 DAYS OF MOBILIZING THE SITE

Implementation Date: 10/01/2019

Review/Revision Date: 08/01/2019 (Draft)

Approved By: Title: Date: Effective Date:

Approved By: Review Date:

Approved By: Supersedes:

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1.0 Purpose

It is Burns & McDonnell policy to protect its personnel, community, and environment. As such, this facility maintains an Emergency Action Plan (EAP) which details procedures to prevent and minimize hazards to human health and the environment. This written document is prepared to demonstrate compliance with 29 CFR 1910.38.

The Plan addresses medical emergencies and emergencies resulting from fires, explosions, bomb threats, civil disturbances, weather, and any potential releases of toxic chemicals. The provisions of the Plan will be implemented during any event, which may threaten human health or the environment.

1.1 Emergency Contact Information

Site Emergencies Call

Ambulance:	911
Fire:	911
Police:	911
Killingly Town Manager:	860-779-5335
Poison Control Center:	800-222-1222
National Response Center:	800-424-8802
<u>Spills:</u>	
US EPA	312-886-7187
CT EPA	800-424-8802
<u>Hospital (Emergency Care):</u>	
Day Kimball (Putnam)	860-928-6541

NOTE: Burns & McDonnell is in process of vetting local spill response services and additional hospitals prior to mobilizing to the job site. Contact information for the selected organizations will be inserted above.

1.2 Non-Emergency Contact Information

Law Enforcement Agency

Killingly Police Dept: 860-779-4900 or 860-779-3900

Fire Department

Dayville Fire Company: 860-774-4817

Town of Killingly

Killingly Town Manager: 860-779-5335

Killingly Engineering: 860-779-5360

1.3 Important Project Numbers:

Position	Name	Mobile #
Site Manager	Earle Cianchette	816-333-9400
Construction Manager	TBD	TBD
Safety Manager	TBD	TBD
NTE Representative	Timothy Eves	904-687-1857

2.0 Types of Emergency Evacuations

At this location, the following types of emergencies exist:

1. Fire or Explosion
2. Severe Weather
3. Tornado
4. Hurricane
5. Flooding
6. Toxic chemical release
7. Workplace violence
8. Bomb threat

This section will be updated after a complete review of the site, surrounding area, and locality has been evaluated.

2.1 Types of Alarm Tones & Designation

1. Siren
2. Air Horn
3. Project Radio

3.0 Employee Training

All employees are trained in safe evacuation procedures during orientation, and refresher training is conducted whenever the employee's responsibilities or designated actions under the plan change and whenever the plan itself is changed. In addition, the employer must review with each employee upon initial assignment the parts of the plan which the employee must know to protect the employee in the event of an emergency. The training includes the use of floor plans and workplace maps which clearly show the emergency escape routes included in the Emergency Action Plan.

4.0 Floor Plans and Maps

Floor plans and maps will be developed for this location to show the emergency escape routes. These floor plans and maps will always be available and posted in key areas of the facility to provide guidance in an emergency. A copy of the floor plans and map will be in Appendix A.

4.1 Emergency Escape Procedures and Assignments

The following are the evacuation procedures for a fire, tornado, severe weather, bomb threat, workplace violence, and/or toxic chemical release.

1. Employees are to proceed to the nearest available and safe exit or shelter as quickly as possible.
2. Personnel operating moving machinery (trucks, forklifts, hand tools, etc.) are to shut equipment off in a safe manner and proceed to the nearest evacuation point.
3. Personnel are to gather at a refuge zone. The refuge zones provide sufficient space to accommodate the employees. During evacuation procedures, employees are to move away from the exit discharge doors of the building and to avoid congregating close to the building(s) and/or location main entrance area where they may hamper emergency operations.
4. After the determination has been made that re-entry is safe by the Emergency Coordinator, employees may re-enter the building or facility.

The refuge zones for fire, bomb threat, workplace violence or toxic chemical release are as follows:

Department	Designated Refuge Zone
Office Staff	Primary- Primary Conference Room Secondary- Office Area Parking Lot
Craft & Field Personnel	Primary- Craft Break Tent Secondary- Office Area Parking Lot

5.0 Critical Plant Procedures

Only in the event of an incipient fire will employees address the fire and care for critical plant operations. Should the fire exceed the incipient fire stage, the employee is to sound the evacuation warning system and evacuate the area immediately.

The procedures to be taken to care for essential plant operations until a total evacuation becomes absolutely necessary include:

- Monitoring the facility power
- Maintaining water supplies
- Maintaining Communication Systems

6.0 Evacuation Procedures

Should evacuation of the facility and/or building(s) be required, the following procedures will be followed to ensure safe evacuation of all employees, contractors, and/or visitors.

1. The Emergency Coordinator will verify that an emergency situation exists. If so, the local fire department service will be notified.
2. The Emergency Coordinator will utilize the alarm system or a means of communication (e.g., bull horn, public address system, radio, etc.) to effectively communicate that evacuation of the building and/or facility is required.
3. The responsible Emergency Coordinator will verify that the visitor log has been removed from the site.
4. The Emergency Coordinator will conduct a head count to verify that all employees, contractors, and/or visitors have been accounted for and safely evacuated.
5. The Emergency Coordinator will communicate to the fire department either that all personnel have been safely evacuated or who remains unaccounted for.

6. No one may leave or return to the building or facility until the Emergency Coordinator authorizes such action.

7.0 Rescue and Medical Duty Assignments

Should rescue be required, the local fire department responding to the emergency is responsible for performing any rescue.

Designated onsite personnel who have been trained in first aid and cardiopulmonary resuscitation (CPR) are to provide medical assistance within their capabilities. A list of all onsite personnel trained in first aid and CPR will be maintained by the Safety Department.

Professional emergency services responding to an emergency will assist with and direct all rescue and medical duty assignments upon their arrival.

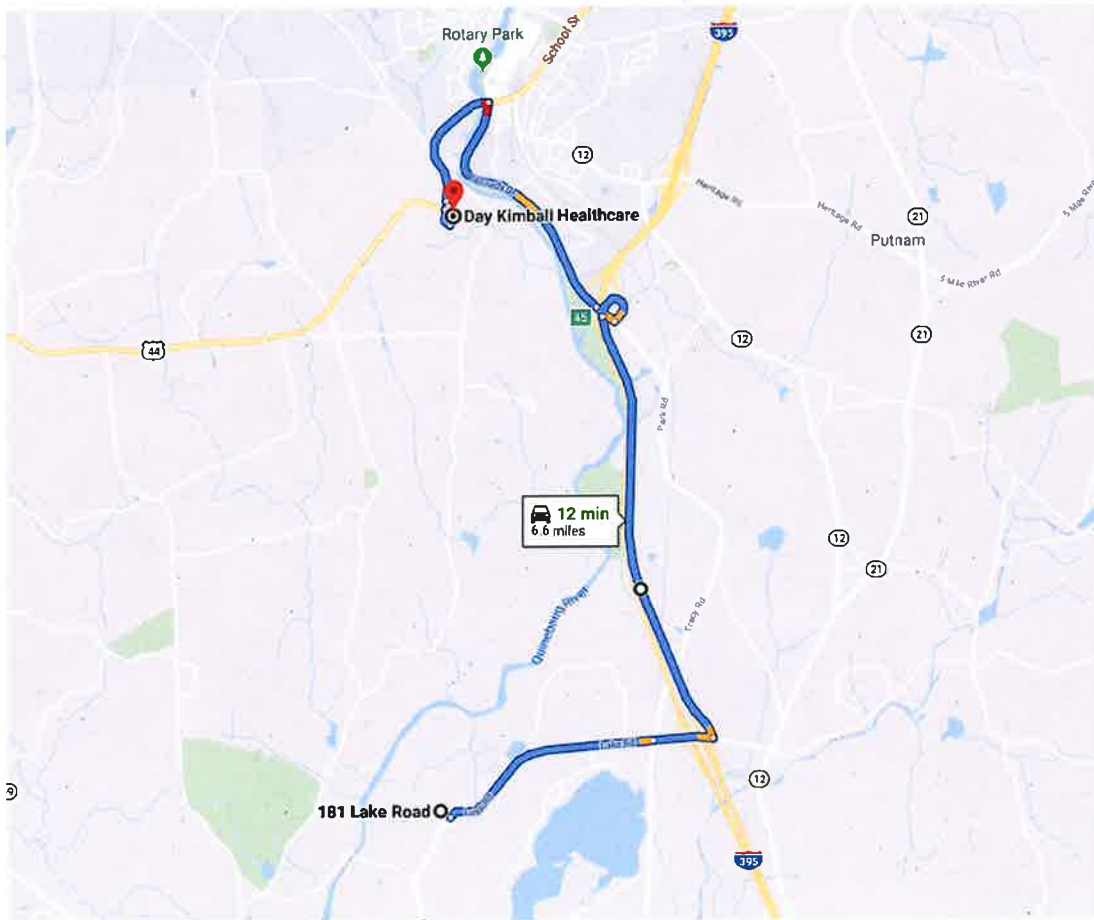
Hospital (Emergency Care):

860-928-6541

Day Kimball Healthcare

320 Pomfret Street,

Putnam, Connecticut, 06260



Turn left out of GFS or right out of SYS. Continue on Lake Road 1 mile to I-395 on-ramp. Enter I-395-northbound. Continue 4 miles on I-395-northbound. Take exit 45, turn right at end of off-ramp. Continue on Kennedy Drive for 1 mile. Turn left onto US-44W/Pomfret Street. Continue 0.6 miles to hospital entrance. Follow signs for Emergency services.

Approximate travel distance is 6.6 miles.

Approximate travel time is 12 minutes.

Fire and Emergency Reporting Procedures

In the event of a fire and/or any other type of emergency, the following reporting procedures are to be followed.

When a fire is detected, activate the alarm immediately. The alarm will notify all personnel.

1. Personnel are to verify what type of alarm is sounding. Then, act according to the alarm. The Emergency Coordinator or their designee will contact the local fire department to summon assistance.
2. The local fire department will perform all emergency rescue and fire fighting duties. The Emergency Coordinator or their designee will meet with the fire department to give them information concerning the emergency and to notify them of any missing persons.
3. Employees are not to return to the facility or buildings until authorized by the Emergency Coordinator.

8.0 Tornado Procedures

A radio and/or television is located at the facility. If a tornado warning or watch has been issued by the local weather service(s), the Emergency Coordinator will notify all employees. Should evacuation be required, personnel will evacuate to a protection shelter. The area(s) which have been designated to provide shelter during a tornado will be determined upon a thorough evaluation of the surrounding area.

9.0 Emergency Coordinator

Selected personnel are trained as an Emergency Coordinators; they will conduct a head count of employees once an evacuation has been completed. There is at least one trained Emergency Coordinator for every twenty employees in the workplace to provide adequate guidance and instruction at the time of an evacuation. The employees selected are trained in the complete workplace layout and various alternative escape routes from the workplace.

All Emergency Coordinators are made aware of:

- any physically handicapped employees who may require additional assistance and of hazardous areas to be avoided during emergencies; and
- any visitors or personnel who are not permanently assigned to work at this facility.

Emergency Coordinator(s) for this facility is as follows in the order of availability or presence:

Title	Name
Site Manager:	Earle Cianchette
Const. Manager:	TBD
Safety Manager;	TBD

A guest log will be maintained for all visitors, contractors, and/or company personnel

10.0 Fire Prevention Plan

The Fire Prevention Plan has been established to control and reduce the possibility of a fire and to specify the type of equipment required to be available in case of a fire.

10.1 Housekeeping Procedures

Accumulations of combustible waste materials must be controlled to ensure that a fast-developing fire, a rapid spread of toxic vapors or gases, or an explosion does not occur.

Good housekeeping in the workplace will ensure that hazardous accumulations of oil soaked rags and/or large accumulations of waste paper, or corrugated boxes do not pose a significant fire hazard.

10.2 Equipment Maintenance

Certain equipment is installed in a workplace to control heat sources or to detect combustible fuel leaks (a temperature limit switch, storage tank high level alarms, etc.). If these devices are not properly maintained or if they become inoperative, a definite fire hazard exists. Employees and supervisors are to be aware of the specific type of hazard control devices utilized in the workplace and to ensure through periodic inspection and/or testing that such devices are operable. The manufacturer's instructions are to be followed to ensure proper operation and maintenance procedures are followed.

10.3 Fire Protection Equipment

The fire protection equipment utilized at this facility includes various sizes of multipurpose dry chemical (ABC) portable fire extinguishers and/or fire suppression systems to protect employee and property from the various types of fire hazards.

11.0 Appendix A - Floor Plans and Maps

Floor Plans and Maps will be developed as the site is mobilized and buildings and structures are erected.

DRAFT

Appendix I

Attachment 1 – Decommissioning Plan

In accordance with the CECPN Findings of Fact for Docket No. 470b, NTE hereby submits the Decommissioning Plan, which includes the following features as required under the applicable section of the CECPN Findings of Fact.

Requirement	Description
CECPN Req. (g)	Decommissioning Plan

A detailed Decommissioning Plan for the full combined-cycle facility will be prepared and submitted as part of Phase 2 of this D&M Plan. However, in the event that construction on KEC is commenced and subsequently cancelled or suspended, with activities covered under this Phase 1 having been commenced or completed, a limited Decommissioning Plan has been prepared to mitigate this scenario.

Phase 1 Decommissioning Activities

Established fencing, access roads, temporary power, safety facilities and other aspects required to facilitate general construction will remain in place to facilitate the decommissioning of the activities that will be carried out under Phase 1 of the D&M Plan. A revised set of Grading Plans and a new set of Landscaping Plans will be developed in conjunction with the Town of Killingly to re-establish the KEC Site as close to its existing condition as would be practical. As the options for land will have been executed, and the existing structures removed, the use case for these properties under this scenario is undetermined at this time.

The revised Grading and Landscaping Plans will preserve the wetlands and maintain existing flows in compliance with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control and the 2004 Connecticut Stormwater Quality Manual. The additional existing special habitat areas (e.g., wetlands, vernal pool), and cultural resources (e.g., cemetery) will remain undisturbed.

If authorized wetland fill has occurred, the plans for the mitigation area due to the disturbance to the wetlands on the SYS will be carried out during this decommissioning process. As part of the Community Environmental Benefits Agreement executed between NTE and the Town of Killingly, within 30 calendar days of KEC's financial close, NTE will post a surety bond or irrevocable letter of credit in the amount of \$2,000,000 for future decommissioning costs associated with KEC. These funds can be allocated towards the requirement for continued monitoring of the wetland mitigation area and invasive species removal.

Following approval of the revised Grading and Landscaping plans by the Town of Killingly and all applicable state agencies, the KEC site will be re-established in accordance with those plans, and construction facilities (fencing, roads, temporary power, safety facilities, etc.) will be demobilized and removed from the site.