

CORONAL ENERGY™

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Exhibit C

Grading and Drainage Concept Plan

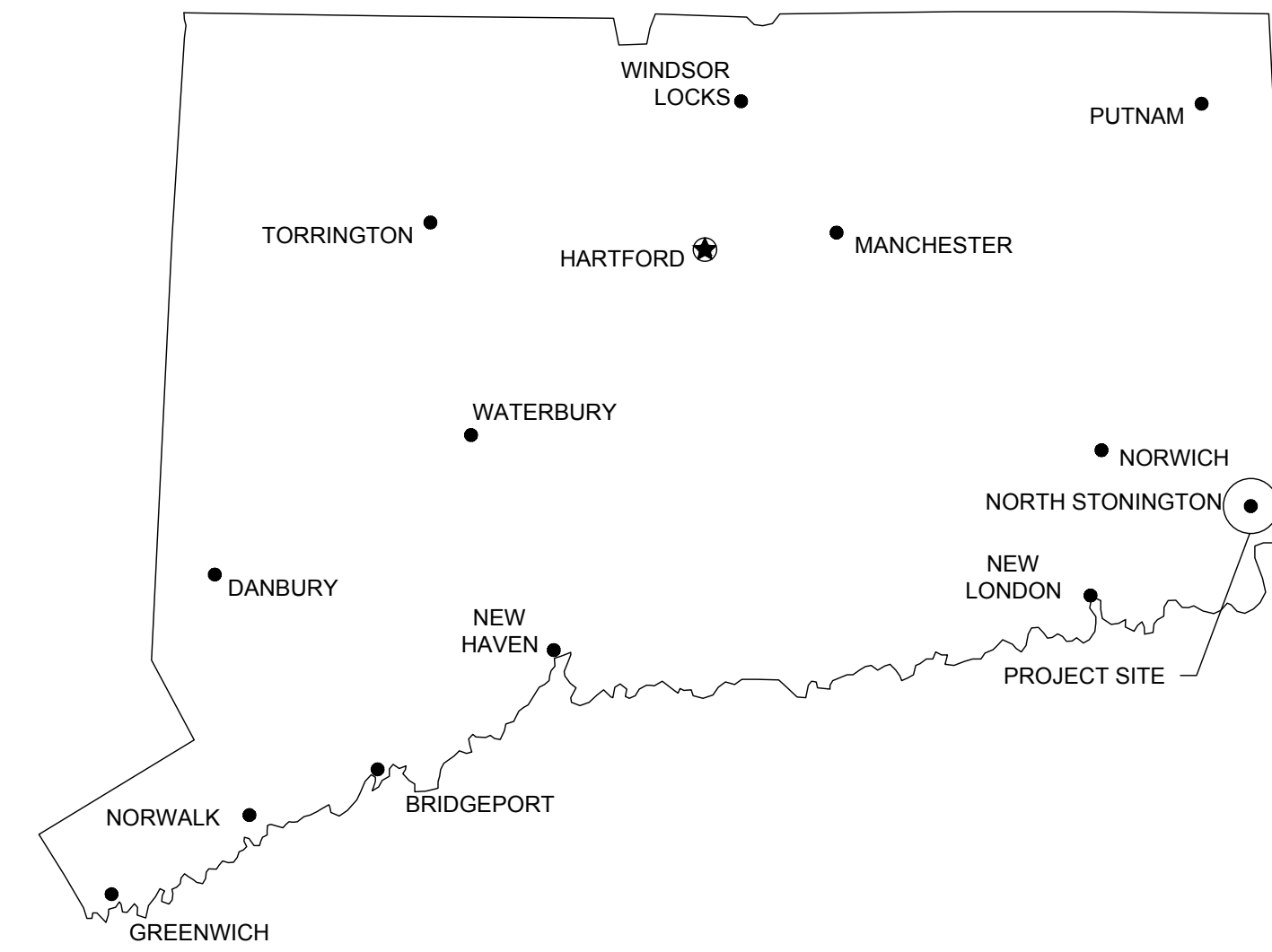


GRADING AND DRAINAGE PLANS FOR PAWCATUCK SOLAR CENTER

ELLA WHEELER ROAD, NORTH STONINGTON,
NEW LONDON COUNTY, CT 06359



PROJECT LOCATION:



PROJECT SCOPE:

SOLAR ELECTRIC SYSTEM
THE PROJECT ENTAILS THE INSTALLATION OF A 15 MW AC SOLAR PHOTOVOLTAIC SYSTEM IN NEW LONDON COUNTY, CONNECTICUT.
THE INSTALLATION CONSISTS OF NEW GROUND MOUNTED STRUCTURES WITH MOUNTED PHOTOVOLTAICS.
THE PROJECT SCOPE OF WORK FOR THESE CONSTRUCTION DRAWINGS PERTAINS ONLY TO THE GRADING AND DRAINAGE/SITE IMPROVEMENT WORK DEPICTED ON THESE PLANS.

STANDARDS AND CONDITIONS:

- THESE GRADING AND DRAINAGE PLANS SHALL CONFORM TO THE FOLLOWING CODE VERSIONS:
- 2012 INTERNATIONAL BUILDING CODE
 - 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL
 - 2004 CONNECTICUT STORMWATER QUALITY MANUAL
 - 2000 CONNECTICUT DEPARTMENT OF TRANSPORTATION (DOT) DRAINAGE MANUAL
 - 2012 INTERNATIONAL FIRE CODE

PROJECT TEAM:

OWNER/SITE CONTACT
PAWCATUCK SOLAR CENTER, LLC

DESIGN ENGINEERING FIRM/CIVIL ENGINEER
BLUE OAK ENERGY
1500 DREW AVENUE
DAVIS, CA 95618
CONTACT: JUAN BRAVO, PE
TEL: (530) 747-2026
CT PE LIC. # XXXXX

PROJECT UTILITY INFORMATION:

GAS
SPECTRO ENERGY OPERATING COMPANY, LLC/
YANHEE GAS SERVICES COMPANY
1-XXX-XXX-XXXX

ELECTRIC
NORTHEAST UTILITIES SERVICE COMPANY
1-XXX-XXX-XXXX

TELEPHONE
AT&T CONNECTICUT/FIBER TECHNOLOGIES NETWORKS, LLC
1-XXX-XXX-XXXX

CABLE TV
COMCAST OF GROTON, INC/ THOMAS VALLEY COMMUNICATIONS, INC
1-XXX-XXX-XXXX

SEWER
N/A

STORM DRAIN
N/A

WATER
N/A

SITE INFORMATION:

NORTH EAST PARCEL: APN: 123-3694 AREA: ± 180.42 ACRES GROSS
NORTH WEST PARCEL: APN: 123-3161 AREA: ±13.31 ACRES GROSS
SOUTH EAST PARCEL: APN: 123-0140 AREA: ± 62.61 ACRES GROSS
SOUTH WEST PARCEL: APN: 126-0006 AREA: ±97.11 ACRES GROSS

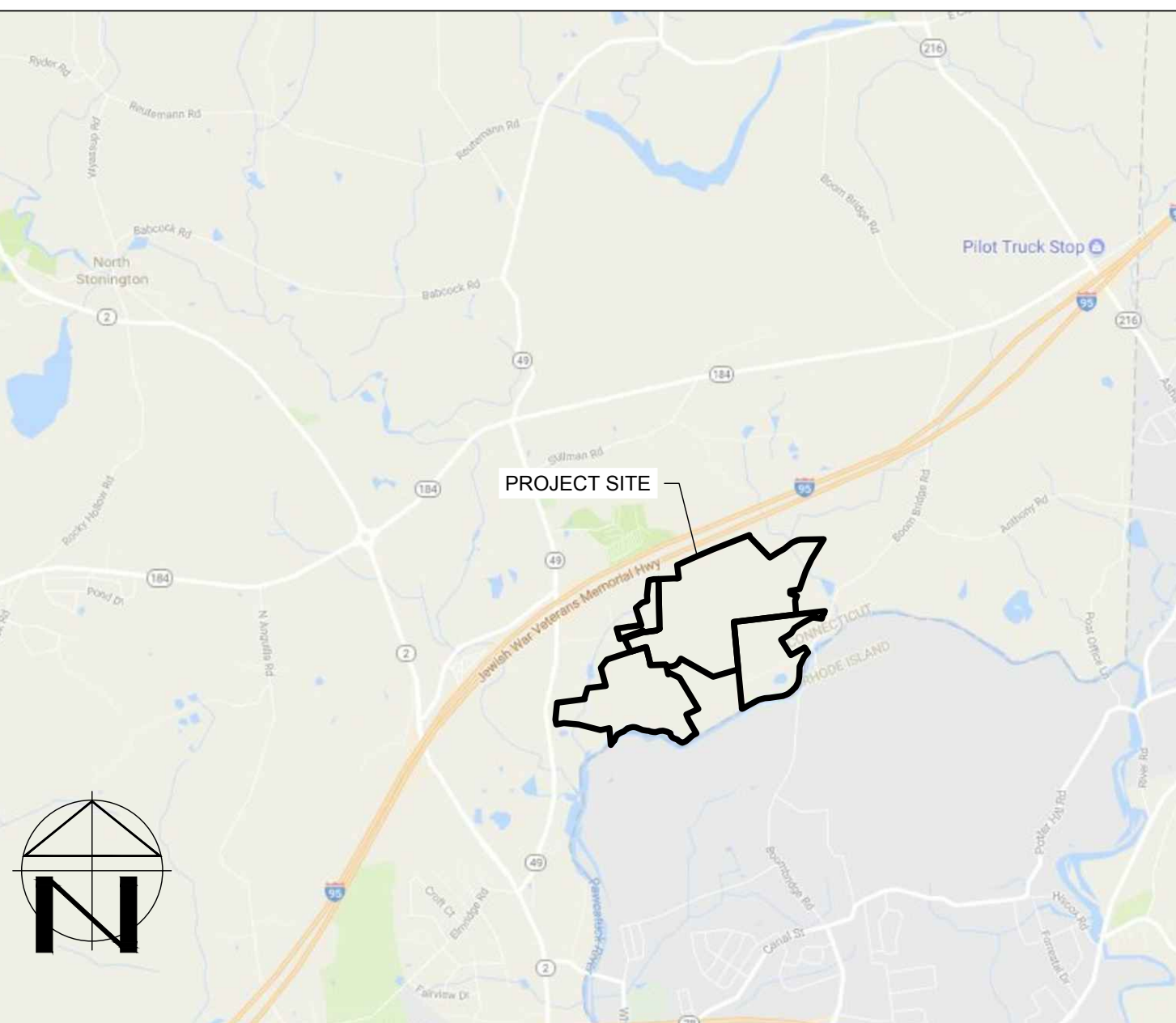
LAND DEVELOPMENT DATA:

TOTAL PROPERTY AREA 354 AC
PROJECT AREA WITHIN FENCE 119 AC
AREA OF TREE CLEARING (SELECTIVELY) 11 AC
AREA OF TREE CLEARING AND GRUBBING 68 AC
AREA OF TREE CLEARING AND NO GRUBBING 18 AC
VOLUME OF GRADING (CUT RAW) 141,000 CY
VOLUME OF GRADING (FILL RAW) 141,000 CY
LINEAR FEET OF GRAVEL ROADS 11,502 LF

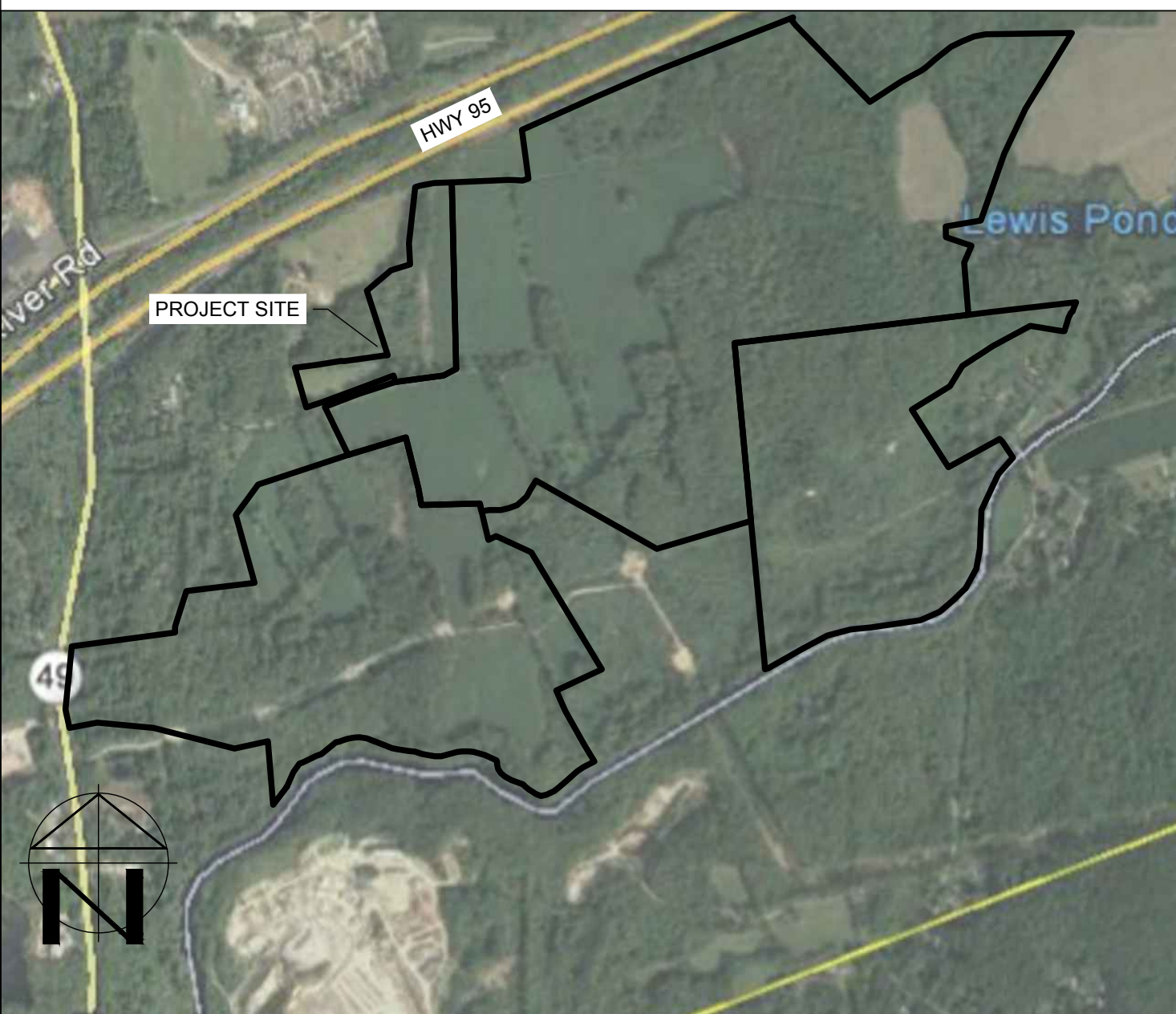
DRAWING INDEX:

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C-703	EROSION AND SEDIMENTATION CONTROL PLAN - AREA SOUTH	
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C-800	OVERALL WATERSHED PLAN	

VICINITY MAP:



AERIAL MAP:



PRELIMINARY
NOT FOR CONSTRUCTION

- INTERNAL USE ONLY -		DATE	BY	PRINTED
DRAWN:	JT, LJK	02/28/18	JT	
CHKD:	JB			
P.L.L.:	NLB			
PROJECT #:	COR16.005			
FILE NAME:	C001.dwg			
DATE	02/28/18			
BY	JT			
PRINTED				

PROJECT: PAWCATUCK SOLAR CENTER
ELLA WHEELER ROAD, NORTH STONINGTON, CT 06359

DRAWING TITLE: TITLE SHEET

DRAWING NO. C-001

CAUTION:

- 1. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT FOR LOCATION OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION - PHONE (DIAL 800-922-4455) OR 811. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY WORK ON THIS SITE.

ENGINEER'S GENERAL NOTES:

- 1. UNLESS SHOWN OR SPECIFIED OTHERWISE, ALL CONSTRUCTION AND MATERIALS SHALL COMPLY WITH THE LATEST EDITION OF THE NEW LONDON COUNTY IMPROVEMENT DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS.
- 2. THE CONTRACTOR SHALL NOT BEGIN ANY WORK SHOWN ON THESE PLANS UNTIL THE SIGNATURE OF APPROVAL OF THE CITY/COUNTY ENGINEER IS AFFIXED HEREON AND ALL APPLICABLE PERMITS HAVE BEEN OBTAINED.
- 3. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH CITY/COUNTY STAFF, OTHER AGENCY STAFF, CONTRACTOR, MATERIAL TESTING LAB, CONSULTANTS, AND OTHER APPROPRIATE PERSONNEL REPRESENTING THE DEVELOPER AT LEAST 2 WORKING DAYS IN ADVANCE OF ANY CONSTRUCTION ACTIVITIES.
- 4. CONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATING THEIR OPERATIONS WITH ALL REQUIRED MATERIALS TESTING SERVICES AS REQUIRED BY THE NEW LONDON COUNTY IMPROVEMENT STANDARDS AND THE NEW LONDON COUNTY INSPECTOR. EACH PHASE OF CONSTRUCTION SHALL BE TESTED AND APPROVED BY THE CITY/COUNTY INSPECTOR PRIOR TO PROCEEDING TO SUBSEQUENT PHASES.
- 5. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES INVOLVED IN THE DEVELOPMENT PRIOR TO BEGINNING OF WORK.
- 6. UTILITIES TO BE INSTALLED UNDER EXISTING PAVEMENTS SHALL BE DIRECTIONALLY BORED.
- 7. NO PAVEMENT WORK WILL OCCUR WITHIN THE ROAD RIGHT-OF-WAY PRIOR TO COMPLETION OF ANY NECESSARY UTILITY POLE REMOVAL AND UTILITY UNDERGROUND WORK WITHIN THAT RIGHT-OF-WAY.
- 8. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND/OR OTHER SURVEY MARKERS DURING CONSTRUCTION. ALL MONUMENTS OR MARKERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED BY A LICENSED STATE LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- 9. PRIOR TO REQUESTING COUNTY ACCEPTANCE OF IMPROVEMENTS, THE CONTRACTOR SHALL SET STANDARD SURVEY MONUMENTS AT LOCATIONS REFERENCED BY ENGINEER. ALL SURVEY MONUMENTS SHALL BE PUNCHED AND SHALL BEAR THE LICENSE NUMBER OF THE SURVEYOR.
- 10. CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL CURRENTLY APPLICABLE SAFETY LAWS OF ALL JURISDICTIONAL BODIES. THE CONTRACTOR IS DIRECTED TO CONTACT THE OFFICE OF SAFETY AND HEALTH ADMINISTRATION (OSHA), THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BARRICADES, SAFETY DEVICES, AND CONTROL OF TRAFFIC WITHIN AND AROUND THE CONSTRUCTION AREA. FOR ALL TRENCH EXCAVATION 5 FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL OBTAIN A PERMIT PRIOR TO BEGINNING ANY EXCAVATION.
- 11. PUBLIC SAFETY AND TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND AS MAY BE DIRECTED BY THE COUNTY. ANY LANE CLOSURES (VEHICLE OR BICYCLE) SHALL BE APPROVED IN ADVANCE BY THE COUNTY. SAFE VEHICULAR, BICYCLE, AND PEDESTRIAN ACCESS SHALL BE PROVIDED AT ALL TIMES.
- 12. THE CONTRACTOR SHALL MAINTAIN CONTINUOUS TEMPORARY TRAFFIC BARRICADES, WITH OPERABLE FLASHING DEVICES, SPACED AT INTERVALS OF NOT TO EXCEED 50 FEET WHENEVER THE WORK AREA IS ADJACENT TO AN EXISTING TRAFFIC LANE AND THERE IS A PAVEMENT CUT, TRENCH, OR DITCH WHICH IS OVER 2 INCHES IN DEPTH, OR IF THE TRAFFIC LANE USED BY VEHICLES IS NOT PAVED, IF THE CUT, TRENCH OR DITCH IS MORE THAN 10 FEET FROM A TRAFFIC LANE, THEN THE BARRICADE SPACING MAY BE GREATER, PROVIDED THAT IT DOES NOT EXCEED 200 FEET.
- 13. CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES CONTRACTOR SHALL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONTRACTOR FURTHER AGREES TO INDEMNIFY AND HOLD THE NEW LONDON COUNTY, ITS OFFICERS, EMPLOYEES, AGENTS, AND VOLUNTEERS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT.
- 14. ALL CONSTRUCTION AND MATERIAL DELIVERY VEHICLES SHALL USE THE DESIGNATED ACCESS AND HAUL ROUTE(S) TO THE CONSTRUCTION SITE. THE ROUTE(S) SHALL BE MONITORED DURING THE PROJECT FOR ANY DAMAGE AND DEBRIS ATTRIBUTABLE TO THE PROJECT VEHICLES.
- 15. CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING HIS OPERATION ENTIRELY OUTSIDE OF ANY "NO GRADING" AREA. THESE AREAS SHALL BE CLEARLY DELINEATED IN THE FIELD PRIOR TO CONSTRUCTION.
- 16. WHERE WORK IS BEING DONE IN AN OFF-SITE EASEMENT THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER TWO WORKING DAYS PRIOR TO COMMENCING WORK WITHIN SAID EASEMENT. COPIES OF ALL SIGNED/APPROVED OFF-SITE EASEMENT AND/OR RIGHT-OF-ENTRY DOCUMENTS SHALL BE PROVIDED TO THE NEW LONDON COUNTY.

DEMOLITION NOTES:

- 1. CONTRACTOR SHALL COMPLY WITH ALL GENERAL AND STATE REQUIREMENTS INVOLVING THE REMOVAL AND DISPOSAL OF HAZARDOUS MATERIAL(S).
- 2. BACKFILL ALL DEPRESSIONS AND TRENCHES FROM DEMOLITION TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
- 3. REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIALS TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
- 4. PRIOR TO BEGINNING DEMOLITION WORK ACTIVITIES, CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES OUTLINED IN THE EROSION CONTROL PLAN & DETAILS.
- 5. THE CONTRACTOR SHALL MAINTAIN ALL SAFETY DEVICES, AND SHALL BE RESPONSIBLE FOR CONFORMANCE TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS LAWS AND REGULATIONS.
- 6. THE CONTRACTOR SHALL PROTECT FROM DAMAGE ALL EXISTING IMPROVEMENTS FACILITIES AND STRUCTURES WHICH ARE TO REMAIN. ANY ITEMS DAMAGED BY THE CONTRACTOR OR HIS AGENTS OR ANY ITEMS REMOVED FOR HIS USE SHALL BE REPLACED IN EQUAL OR BETTER CONDITION AS APPROVED BY THE OWNER'S REPRESENTATIVE.
- 7. COORDINATE WITH ELECTRICAL, MECHANICAL, LANDSCAPING AND ARCHITECTURAL DRAWINGS FOR UTILITY SHUT-DOWNS/CONNECT LOCATIONS. CONTRACTOR IS TO SHUT OFF ALL UTILITIES AS NECESSARY PRIOR TO DEMOLITION. CONTRACTOR IS TO COORDINATE SERVICE INTERRUPTIONS WITH THE CLIENT. DO NOT INTERRUPT SERVICES TO ADJACENT OFF-SITE OWNERS.
- 8. THIS PLAN IS NOT INTENDED TO BE A COMPLETE CATALOGUE OF ALL EXISTING STRUCTURES AND/OR UTILITIES. THE INTENT OF THIS PLAN IS TO DISCLOSE GENERAL INFORMATION KNOWN BY THE ENGINEER AND TO SHOW THE LIMITS OF THE AREA WHERE WORK WILL BE PERFORMED. THIS PLAN SHOWS THE EXISTING FEATURES TAKEN FROM A FIELD SURVEY, FIELD INVESTIGATIONS AND AVAILABLE INFORMATION. THIS PLAN MAY OR MAY NOT ACCURATELY REFLECT THE TYPE OR EXTENT OF THE ITEMS TO BE ENCOUNTERED AS THEY ACTUALLY EXIST. WHERE EXISTING FEATURES ARE NOT SHOWN, IT IS NOT IMPLIED THAT THEY ARE NOT TO BE DEMOLISHED OR REMOVED. THE CONTRACTOR SHALL PERFORM A THOROUGH FIELD INVESTIGATION AND REVIEW OF THE SITE WITHIN THE LIMIT OF WORK SHOWN IN THIS PLAN SET TO DETERMINE THE TYPE, QUANTITY AND EXTENT OF ANY AND ALL ITEMS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THE EXTENT OF EXISTING STRUCTURES AND/OR UTILITIES AND QUANTITY OF WORK INVOLVED IN REMOVING THESE ITEMS FROM THE SITE.

ENGINEER'S GRADING NOTES:

- 1. THE CONTRACTOR SHALL NOT ADJUST GRADES ON THIS PLAN WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.
- 2. CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS REQUIRED TO PROTECT ADJACENT PROPERTIES DURING THE GRADING OPERATIONS.
- 3. THE GEOTECHNICAL ENGINEERING REPORT (SOILS REPORT) PREPARED BY TERRACON CONSULTANTS, INC. DATED JANUARY 8, 2018, FOR THE SITE SHALL BE CONSIDERED AS PART OF THESE PLANS. ALL GRADING SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS AND SPECIFICATIONS CONTAINED IN THE SOILS REPORT.
- 4. IF THE OWNER/APPLICANT DIRECTS THE ENGINEER TO DEVIATE FROM THE SOILS REPORT RECOMMENDATIONS (MATERIALS, METHODS, ETC.), REGARDLESS OF JURISDICTIONAL REQUIREMENTS OR EXCEPTIONS, THE OWNER/APPLICANT SHALL INDEMNIFY AND HOLD THE ENGINEER HARMLESS OF ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE GRADING WORK ON THIS PROJECT.
- 5. ALL GRADING SHALL BE DONE UNDER THE OBSERVATION OF A GEOTECHNICAL ENGINEER. ALL AREAS TO BE FILLED SHALL BE PREPARED TO BE FILLED AND ALL FILL SHALL BE PLACED IN ACCORDANCE WITH THE RECOMMENDED GRADING SPECIFICATIONS AND SPECIAL PROVISIONS ATTACHED TO THE SOILS INVESTIGATIONS FOR THIS PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE, SPREAD, WATER AND COMPACT THE FILL IN STRICT ACCORDANCE WITH THESE SPECIFICATIONS.
- 6. CONSTRUCTION OBSERVATIONS AND COMPACTION TESTS SHALL BE MADE BY THE GEOTECHNICAL ENGINEER DURING THE FILLING AND COMPACTING OPERATIONS SO THAT HE CAN STATE HIS OPINION THAT THE FILL WAS CONSTRUCTED IN ACCORDANCE WITH THE EARTHWORK SPECIFICATIONS.
- 7. IN THE CASE OF CONFLICTS, THE REQUIREMENTS OF THE EARTHWORK SPECIFICATIONS PREPARED FOR THE PROJECT BY THE SOILS ENGINEER SHALL GOVERN THE REQUIREMENTS OF THIS PLAN AND THESE NOTES. PLANS SHALL BE REVISED ACCORDINGLY.

ENGINEER'S GRADING NOTES (CONTINUED):

- 8. GRADING CONTRACTOR SHALL COORDINATE THE GRADING OPERATION WITH UTILITY COMPANIES PERTAINING TO CONFLICTS REQUIRING REMOVAL/RELOCATION/ADJUSTMENT OF EXISTING POWER POLES, UNDERGROUND PIPES/CONDUITS, VAULTS/BOXES, ETC. OR ANY OTHER UTILITY ADJUSTMENTS NECESSARY TO PERFORM THE SCOPE OF WORK.
- 9. DURING CONSTRUCTION, THE CONTRACTOR SHALL PROPERLY GRADE ALL EXCAVATED SURFACES TO PROVIDE POSITIVE DRAINAGE AND PREVENT PONDING OF WATER. THE CONTRACTOR SHALL CONTROL SURFACE WATER TO AVOID DAMAGE TO ADJOINING PROPERTIES OR TO FINISHED WORK ON THE SITE. THE CONTRACTOR SHALL TAKE REMEDIAL MEASURES TO PREVENT EROSION OF FRESHLY GRADED AREAS AND UNTIL SUCH TIME AS PERMANENT DRAINAGE AND EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
- 10. ALL TRENCHES SHALL BE BACKFILLED PER THE SPECIFICATIONS WITH APPROPRIATE TESTS BY THE GEOTECHNICAL ENGINEER TO VERIFY COMPACTION VALUES.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NOTES:

- 1. THE SWPPP MUST BE DEVELOPED AND IMPLEMENTED BEFORE ANY LAND-DISTURBING ACTIVITIES. SEDIMENT CONTROLS SUCH AS ROCK SITE ENTRANCE PADS, TRAPS, AND SILT FENCES MUST BE INSTALLED BEFORE LAND CLEARING, EXCAVATION, OR PLACEMENT OF FILL MATERIAL.
- 2. DETENTION BASINS, IF USED, MUST BE CONSIDERED FIRST AND MUST PERFORM AS SEDIMENT BASINS UNTIL THE CONTRIBUTING DRAINAGE AREA IS SEEDDED AND STABILIZED. OUTLETS MUST BE MODIFIED, IF NECESSARY, TO MAXIMIZE DETENTION AND SEDIMENT REMOVAL DURING CONSTRUCTION.
- 3. INSTALL CONSTRUCTION ENTRANCE TO MINIMIZE THE TRACKING OF MUD, SOIL, AND ROCK FROM CONSTRUCTION AREAS ONTO PUBLIC ROADWAYS. SOIL AND ROCK TRACKED ONTO THE ROADWAY MUST BE REMOVED DAILY.
- 4. SOIL STOCKPILES MUST BE LOCATED AWAY FROM STREAMS, PONDS, SWALES AND CATCH BASINS. STOCKPILES MUST BE SEEDDED, MULCHED, AND ADEQUATELY CONTAINED THROUGH THE USE OF SILT FENCE.
- 5. SEDIMENT-LADEN WATER ENCOUNTERED DURING TRENCHING, BORING, OR OTHER EXCAVATION ACTIVITIES MUST BE PUMPED TO A SEDIMENT TRAPPING OR FILTERING DEVICE AND CLEANED BEFORE BEING DISCHARGED. DISCHARGES TO STORM DRAINS, DITCHES, OR WATER BODIES MUST BE COVERED BY CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENT PROTECTION (CTDEEP) PERMIT.
- 6. ALL BARE SOIL AREAS NOT SUBJECT TO ACTIVE CLEARING, EXCAVATION, GRADING, OR FILL ACTIVITIES MUST BE STABILIZED WITH TEMPORARY OR PERMANENT SEEDING OR MULCHING WITHIN 14 DAYS.
- 7. ALL AREAS WITHIN 25 FT WETLANDS AND 100 FT OF STREAMS, RIVERS, LAKES, AND SINKHOLES MUST BE FLAGGED AS OFF-LIMITS TO VEHICLES, EQUIPMENT, AND SOIL DISTURBANCE ACTIVITIES.
- 8. GOOD HOUSEKEEPING PRACTICES MUST BE APPLIED TO PREVENT CONTAMINATED RUNOFF OR OTHER IMPACTS FROM PAINT OR CONCRETE WASTES, FUELS AND OILS, TRASH AND LITTER, OR OTHER MATERIALS.
- 9. SILT FENCES, DITCH CHECK DAMS, NON-PERMANENT SEDIMENT TRAPS, AND OTHER TEMPORARY CONTROLS MUST BE REMOVED AFTER VEGETATION IN UPGRADE AREAS IS ESTABLISHED AND DITCHES ARE STABLE.
- 10. GOOD HOUSEKEEPING MEASURES FOR MATERIALS STORAGE AND HANDLING, VEHICLE FUELING AND MAINTENANCE, SPILL RESPONSE AND CLEANUP, AND WASTE MANAGEMENT MUST BE FOLLOWED TO ENSURE THAT RUNOFF FROM THE SITE IS FREE OF CONTAMINANTS.
- 11. ALL BMPs WILL BE SELECTED, INSTALLED, OPERATED, AND MAINTAINED ACCORDING TO 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, MANUFACTURER'S REQUIREMENTS, OR STANDARD INDUSTRY PRACTICE, AS APPROPRIATE.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS:

- 1. ALL CONSTRUCTION ON OFFSITE OR ONSITE IMPROVEMENTS SHALL ADHERE TO NPDES (NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM) BEST MANAGEMENT PRACTICES TO PREVENT DELETERIOUS MATERIALS OR POLLUTANTS FROM ENTERING THE NEW LONDON COUNTY STORM DRAIN SYSTEMS.
- 2. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES, OR WIND.
- 3. STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
- 4. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
- 5. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC RIGHT-OF-WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
- 6. TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION AND DISPERSAL BY WIND.
- 7. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC RIGHT-OF-WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEEPED UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
- 8. ANY SLOPES WITH DISTURBED SOILS OR DENUDE OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
- 9. CLEAN UP ALL SPILLS USING DRY METHODS.
- 10. CALL 911 IN CASE OF A HAZARDOUS SPILL.
- 11. UPON SATISFACTORY COMPLETION OF THE WORK, THE ENTIRE WORK SITE SHALL BE CLEANED BY THE CONTRACTOR AND LEFT WITH A SMOOTH AND NEATLY GRADED SURFACE FREE OF CONSTRUCTION WASTE, RUBBISH, AND DEBRIS OF ANY NATURE.

DUST CONTROL:

- 1. WATER TRUCKS SHALL BE PRESENT AND IN USE AT THE CONSTRUCTION SITE. ALL PORTIONS OF THE SITE SUBJECT TO BLOWING DUST SHALL BE WATERED AS OFTEN AS DEEMED NECESSARY BY THE CLIENT/INSPECTOR IN ORDER TO INSURE PROPER CONTROL OF BLOWING DUST FOR THE DURATION OF THE PROJECT.
- 2. ALL PUBLIC STREETS AND MEDIANS SOILED OR LITTERED DUE TO THIS CONSTRUCTION ACTIVITY SHALL BE CLEANED AND SWEEPED ON A DAILY BASIS DURING THE WORK WEEK, OR AS OFTEN AS DEEMED NECESSARY BY THE CLIENT/INSPECTOR, OR TO THE SATISFACTION OF THE [CITY/COUNTY/AHJ] DEPARTMENT OF PUBLIC WORKS.
- 3. ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS SHALL BE COVERED WITH TARPULINS OR OTHER EFFECTIVE COVERS.
- 4. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DUST CONTROL MEASURES AND FOR OBTAINING ALL REQUIRED PERMITS AND APPROVALS.
- 5. REFER TO THE PROJECT STORM WATER POLLUTION CONTROL PLAN (SWPCP) REPORT FOR ADDITIONAL DUST CONTROL GUIDELINES.

RECORD DRAWING:

- 1. THE CONTRACTOR SHALL KEEP UP-TO-DATE AND ACCURATE A COMPLETE RECORD SET OF PRINTS FOR THE CONTRACT DRAWINGS SHOWING EVERY CHANGE FROM THE ORIGINAL DRAWINGS MADE DURING THE COURSE OF CONSTRUCTION INCLUDING EXACT FINAL LOCATION, ELEVATION, SIZES, MATERIALS, AND DESCRIPTION OF ALL WORK. RECORDS SHALL BE "REDLINED" ON A SET OF CONSTRUCTION PLAN DRAWINGS. A COMPLETE SET OF CORRECTED AND COMPLETED RECORD DRAWING PRINTS SHALL BE SUBMITTED TO THE [CITY/COUNTY/AHJ] ENGINEER AND DEVELOPER'S CIVIL ENGINEER PRIOR TO FINAL ACCEPTANCE FOR REVIEW AND APPROVAL BY THE [CITY/COUNTY/AHJ] ENGINEER.

ABBREVIATIONS:

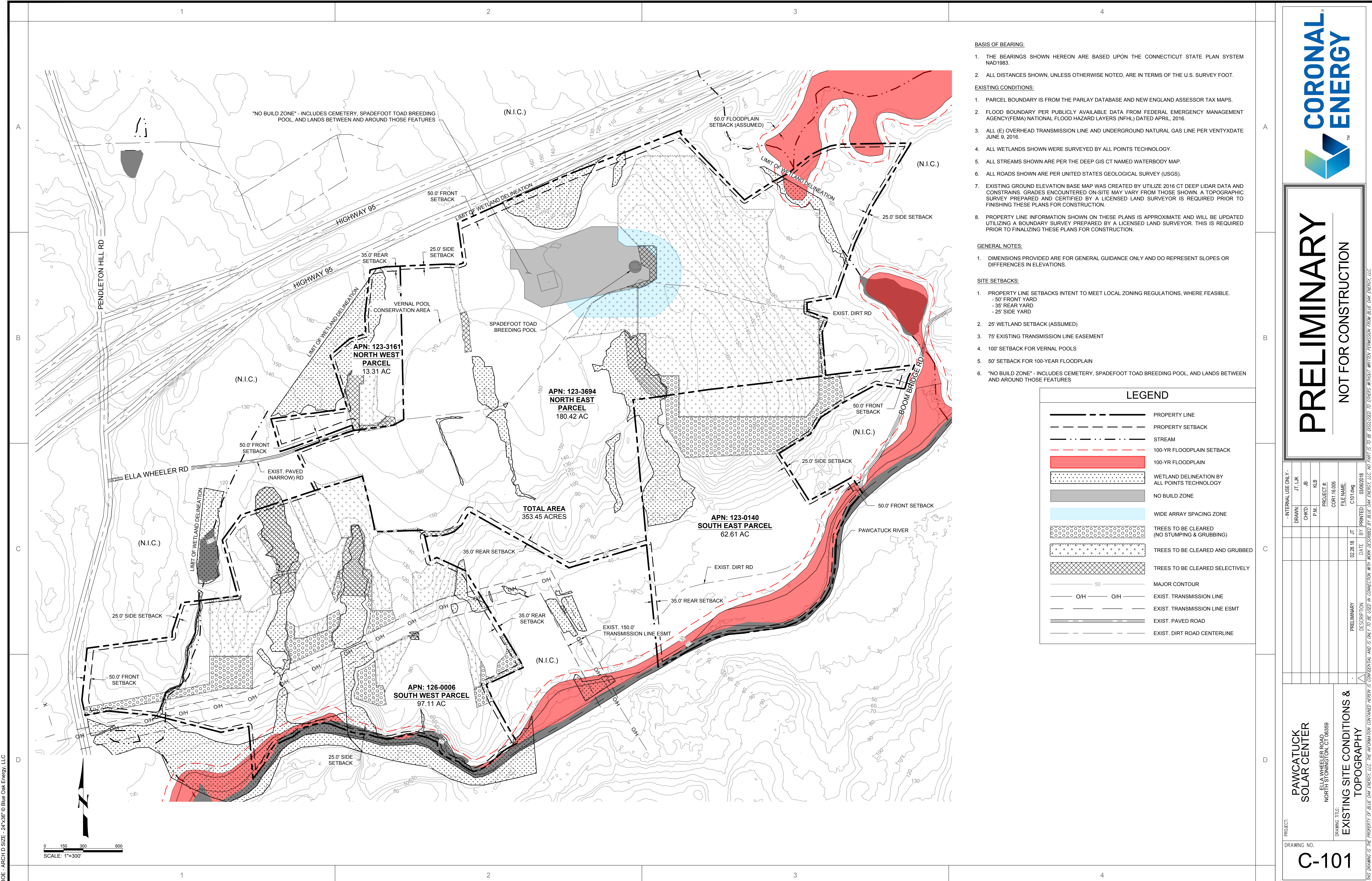
AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
APPROX	APPROXIMATE
AVG	AVERAGE
BLDG	BUILDING
BMP	BEST MANAGEMENT PRACTICES
BNDY	BOUNDARY
BOT	BOTTOM
C/L	CENTERLINE
CMP	CORRUGATED METAL PIPE
CN	CURVE NUMBER
COI	CHANGE OF INFORMATION
CONC	CONCRETE
CP	CONTROL POINT
CPP	CORRUGATED PLASTIC PIPE
EG	EXISTING GRADE
EP	EDGE OF PAVEMENT
ELEC	ELECTRICAL
ELEV.	ELEVATION
ESMT	EASEMENT
ETW	EDGE OF TRAVELED WAY
EXIST.	EXISTING
FG	FINISHED GRADE
FL	FLOW LINE
FR	FIBER ROLL
FS	FINISHED SURFACE
FT	FEET
GB	GRADE BREAK
HT	HEIGHT
ID	IDENTIFICATION
IRRIG	IRRIGATION
LF	LINEAR FEET
LP	LIGHT POLE
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
(N.I.C.)	NOT IN CONTRACT
NOI	NOTICE OF INTENT
NPDES	NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM
O/H	OVERHEAD LINE
OAE	OR APPROVED EQUAL
P/L	PROPERTY LINE
PP	POWER POLE
PROP.	PROPOSED
R	RADIUS
RD	ROAD
R/W	RIGHT-OF-WAY
SD	STORM DRAIN
SF	SILT FENCE
SPT	SPOT ELEVATION
SQ FT	SQUARE FEET
SS	SANITARY SEWER
ST	STREET
SWPCP	STORMWATER POLLUTION CONTROL PLAN
TC	TIME OF CONCENTRATION
TEMP	TEMPORARY
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD
YR	YEAR



PRELIMINARY
NOT FOR CONSTRUCTION

- INTERNAL USE ONLY -	
DRAWN: JT, LJK	CHKD: JB
P.L.#:	PROJECT #:
FILE NAME:	DATE:
001.dwg	02-28-18
PRINTED:	BY:
0006/2018	JT
PRELIMINARY	DESCRIPTION

PROJECT: PAWCATUCK SOLAR CENTER
ELLA WHEELER ROAD, NORTH STONINGTON, CT 06359
DRAWING TITLE: CIVIL NOTES & ABBREVIATIONS
DRAWING NO. C-002



BASIS OF BEARING:

1. THE BEARINGS SHOWN HEREON ARE BASED UPON THE CONNECTICUT STATE PLAN SYSTEM NAD1983.
2. ALL DISTANCES SHOWN, UNLESS OTHERWISE NOTED, ARE IN TERMS OF THE U.S. SURVEY FOOT.

EXISTING CONDITIONS:

1. PARCEL BOUNDARY IS FROM THE PARLAY DATABASE AND NEW ENGLAND ASSESSOR TAX MAPS.
2. FLOOD BOUNDARY PER PUBLICLY AVAILABLE DATA FROM FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) NATIONAL FLOOD HAZARD LAYERS (NFHL) DATED APRIL, 2016.
3. ALL (E) OVERHEAD TRANSMISSION LINE AND UNDERGROUND NATURAL GAS LINE PER VENTYXDATE JUNE 9, 2016.
4. ALL WETLANDS SHOWN WERE SURVEYED BY ALL POINTS TECHNOLOGY.
5. ALL STREAMS SHOWN ARE PER THE DEEP GIS CT NAMED WATERBODY MAP.
6. ALL ROADS SHOWN ARE PER UNITED STATES GEOLOGICAL SURVEY (USGS).
7. EXISTING GROUND ELEVATION BASE MAP WAS CREATED BY UTILIZE 2016 CT DEEP LIDAR DATA AND CONSTRAINS. GRADES ENCOUNTERED ON-SITE MAY VARY FROM THOSE SHOWN. A TOPOGRAPHIC SURVEY PREPARED AND CERTIFIED BY A LICENSED LAND SURVEYOR IS REQUIRED PRIOR TO FINISHING THESE PLANS FOR CONSTRUCTION.
8. PROPERTY LINE INFORMATION SHOWN ON THESE PLANS IS APPROXIMATE AND WILL BE UPDATED UTILIZING A BOUNDARY SURVEY PREPARED BY A LICENSED LAND SURVEYOR. THIS IS REQUIRED PRIOR TO FINALIZING THESE PLANS FOR CONSTRUCTION.

GENERAL NOTES:

1. DIMENSIONS PROVIDED ARE FOR GENERAL GUIDANCE ONLY AND DO REPRESENT SLOPES OR DIFFERENCES IN ELEVATIONS.

SITE SETBACKS:

1. PROPERTY LINE SETBACKS INTENT TO MEET LOCAL ZONING REGULATIONS, WHERE FEASIBLE.
 - 50' FRONT YARD
 - 35' REAR YARD
 - 25' SIDE YARD
2. 25' WETLAND SETBACK (ASSUMED)
3. 75' EXISTING TRANSMISSION LINE EASEMENT
4. 100' SETBACK FOR VERNAL POOLS
5. 50' SETBACK FOR 100-YEAR FLOODPLAIN
6. *NO BUILD ZONE* - INCLUDES CEMETERY, SPADEFOOT TOAD BREEDING POOL, AND LANDS BETWEEN AND AROUND THOSE FEATURES

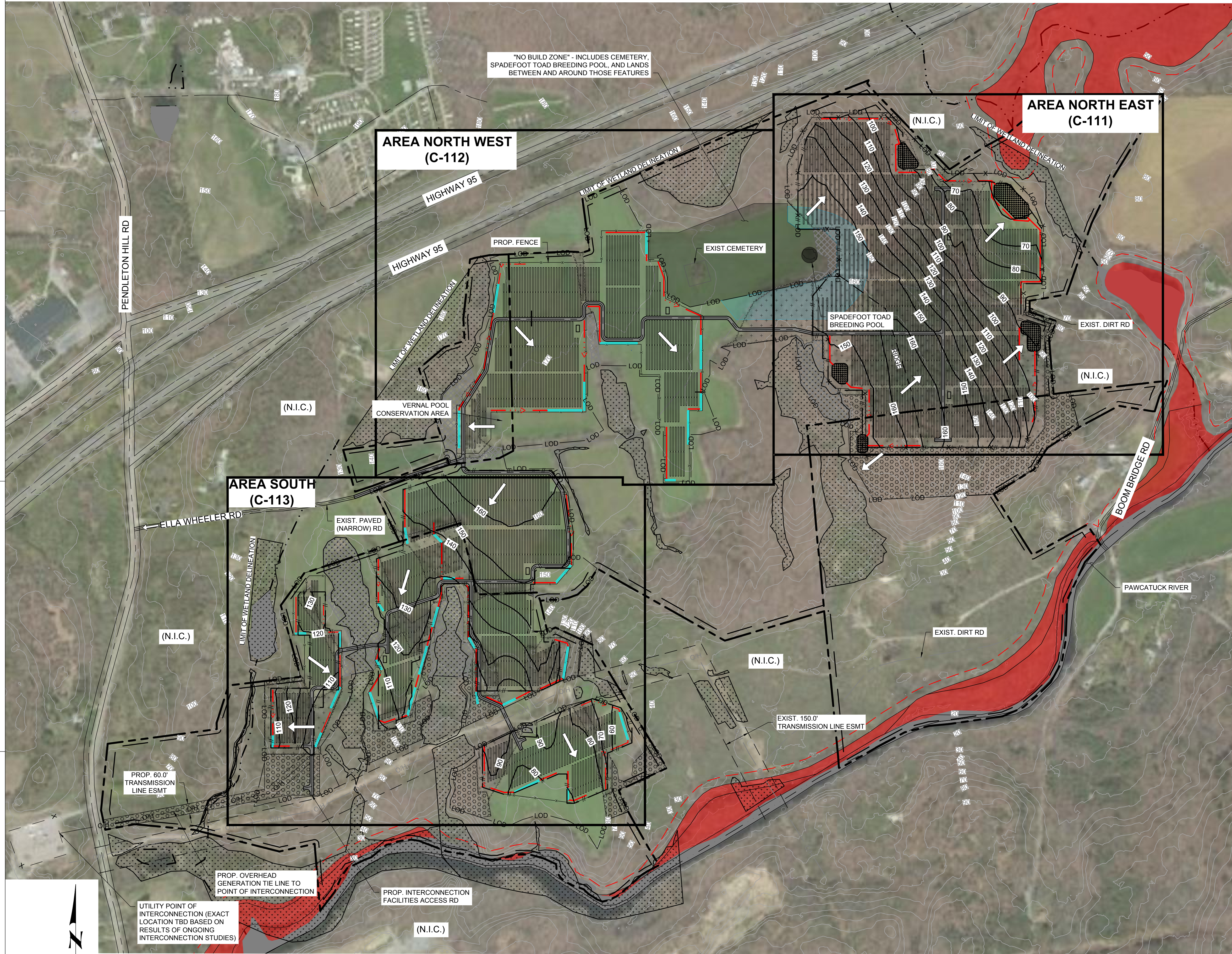
LEGEND	
	PROPERTY LINE
	PROPERTY SETBACK
	STREAM
	100-YR FLOODPLAIN SETBACK
	100-YR FLOODPLAIN
	WETLAND DELINEATION BY ALL POINTS TECHNOLOGY
	NO BUILD ZONE
	WIDE ARRAY SPACING ZONE
	TREES TO BE CLEARED (NO STUMPING & GRUBBING)
	TREES TO BE CLEARED AND GRUBBED
	TREES TO BE CLEARED SELECTIVELY
	MAJOR CONTOUR
	EXIST. TRANSMISSION LINE
	EXIST. TRANSMISSION LINE ESMT
	EXIST. PAVED ROAD
	EXIST. DIRT ROAD CENTERLINE



PRELIMINARY
NOT FOR CONSTRUCTION

- INTERNAL USE ONLY -	
DRAWN: JT, LJK	DATE: 02/28/18
CHKD: JB	BY: JT
P.L.: KLB	PROJECT #: 00062018
FILE NAME: C101.dwg	DESCRIPTION: PRELIMINARY

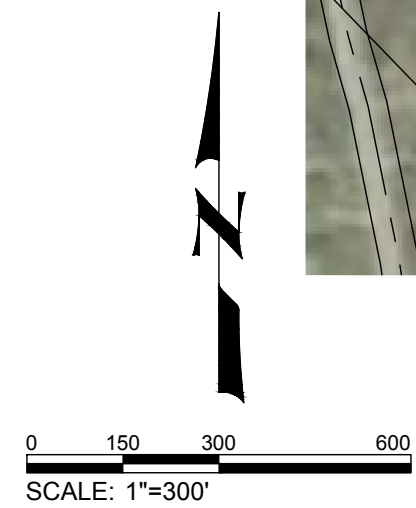
PROJECT: PAWCATUCK SOLAR CENTER
ELLA WHEELER ROAD, NORTH STONINGTON, CT 06399
DRAWING TITLE: EXISTING SITE CONDITIONS & TOPOGRAPHY
DRAWING NO. C-101



LEGEND

	PROPERTY LINE
	SETBACK
	STREAM
	WETLAND DELINEATION BY ALL POINTS TECHNOLOGY
	EXIST. MAJOR CONTOUR
	TREES TO BE CLEARED SELECTIVELY
	TREES TO BE CLEARED AND GRUBBED
	TREES TO BE CLEARED (NO STUMPING & GRUBBING)
	PROP. SOLAR TRACKER
	PROP. ACCESS ROAD
	PROP. FENCE
	LIMIT OF DISTURBANCE
	PROP. SWALE
	DIRECTION OF STORM RUNOFF
	NO BUILD ZONE
	WIDE ARRAY SPACING ZONE
	EXIST. PAVED ROAD
	100-YR FLOODPLAIN
	100-YR FLOODPLAIN SETBACK
	EXIST. TRANSMISSION LINE
	EXIST. TRANSMISSION LINE ESMT
	PROP. MAJOR CONTOUR
	LIMIT OF GRADING

- GENERAL NOTES:**
1. THE OVERALL HISTORICAL DRAINAGE PATTERNS ARE TO REMAIN.
 2. THE INTENT OF THE GRADES SHOWN IS TO MATCH THE EXISTING GRADES AS CLOSE AS POSSIBLE WITH A MINIMUM GRADING IN ORDER TO PROVIDE CONTINUOUS SLOPE ALONG SECTIONS OF TRACKERS.
 3. THE ENTIRE SITE SHALL BE CLEARED AND GRUBBED IN ACCORDANCE WITH THE EROSION AND SEDIMENTATION PLANS AND SEQUENCE OF CONSTRUCTION PROVIDED HEREIN.



PRELIMINARY

NOT FOR CONSTRUCTION

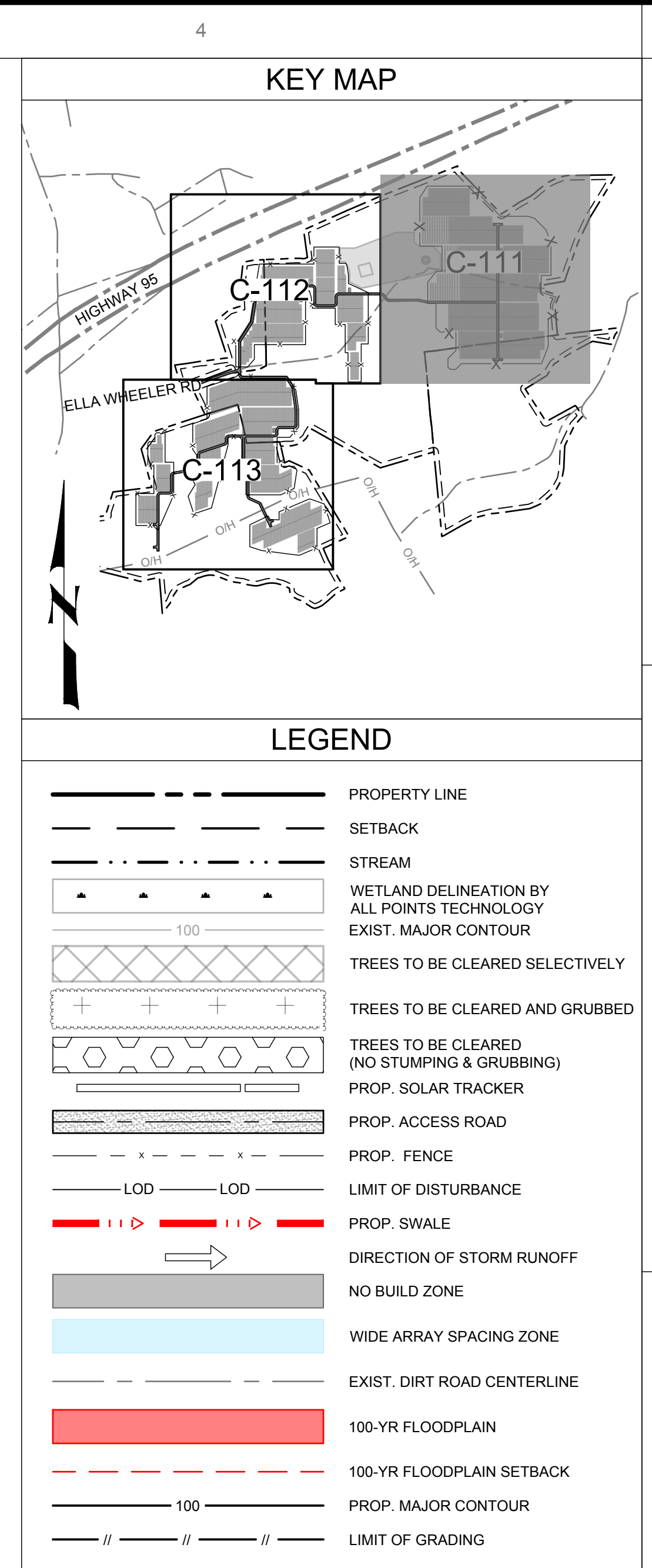
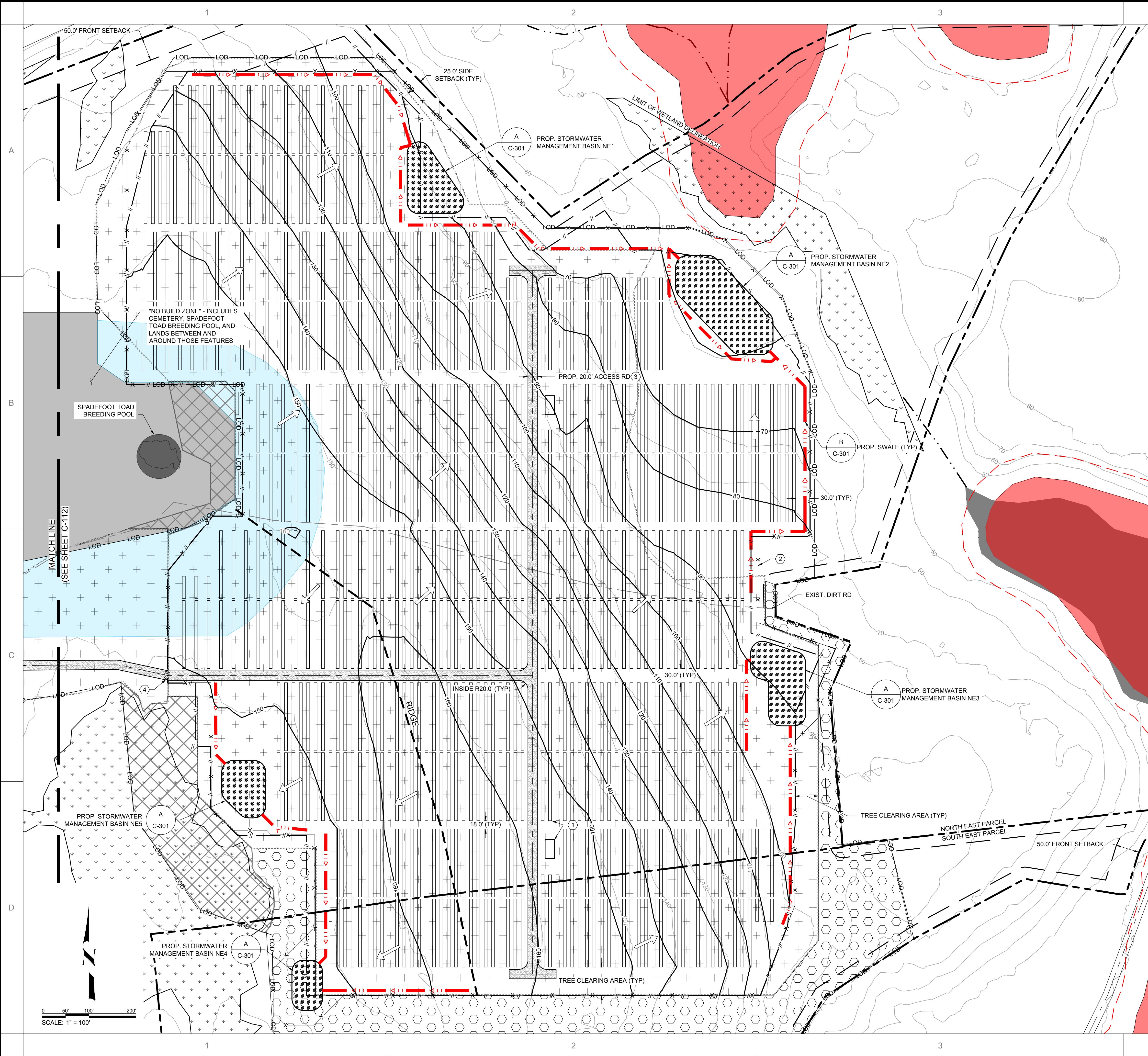
- INTERNAL USE ONLY -	
DRAWN: JT, LUK	CHKD: JB
P.L.: KLB	PROJECT #: COR16-005
FILE NAME: C110.dwg	DATE: 02/28/18
BY: JT	PRINTED: 03/06/2018
PRELIMINARY	DESCRIPTION: C110.dwg

PROJECT: PAWCATUCK SOLAR CENTER
 ELLA WHEELER ROAD, NORTH STONINGTON, CT 06359

DRAWING TITLE: OVERALL GRADING & DRAINAGE PLAN

DRAWING NO. C-110





LEGEND

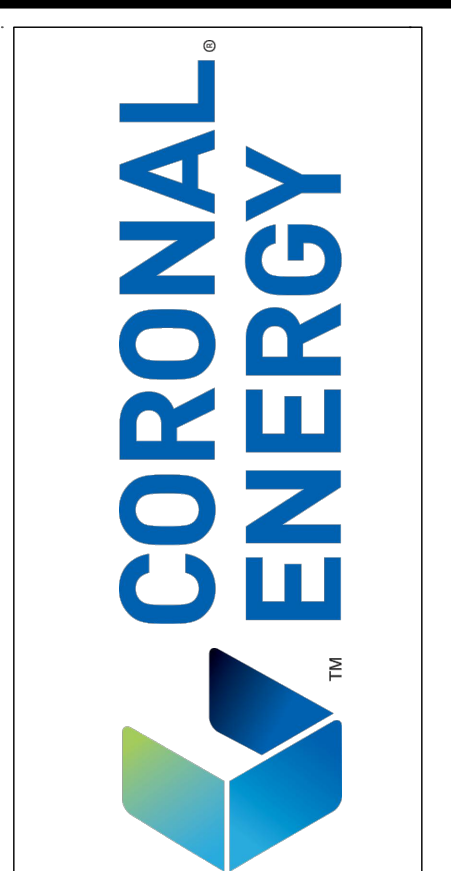
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	SETBACK
	STREAM
	WETLAND DELINEATION BY ALL POINTS TECHNOLOGY
	EXIST. MAJOR CONTOUR
	TREES TO BE CLEARED SELECTIVELY
	TREES TO BE CLEARED AND GRUBBED
	TREES TO BE CLEARED (NO STUMPING & GRUBBING)
	PROP. SOLAR TRACKER
	PROP. ACCESS ROAD
	PROP. FENCE
	LIMIT OF DISTURBANCE
	PROP. SWALE
	DIRECTION OF STORM RUNOFF
	NO BUILD ZONE
	WIDE ARRAY SPACING ZONE
	EXIST. DIRT ROAD CENTERLINE
	100-YR FLOODPLAIN
	100-YR FLOODPLAIN SETBACK
	PROP. MAJOR CONTOUR
	LIMIT OF GRADING

KEYED NOTES:

- PROPOSED SOLAR ARRAY AND OTHER ELECTRICAL EQUIPMENT (SEE ELECTRICAL AND STRUCTURAL PLANS).
- PROPOSED 6' TALL CHAINLINK FENCE WITH 1 FT BARBED WIRE PER DOT STANDARD CHAINLINK FENCE, SHEET NO HW-913-01.
- PROPOSED 20' WIDE ACCESS ROAD, (SEE SECTION D ON C-301)
- PROPOSED 22' WIDE DOUBLE SWING GATE. GATE SHALL BE LOCKED WITH FIRE DEPARTMENT APPROVED PAD LOCK.

GENERAL NOTE:

- DIMENSIONS PROVIDED ARE FOR GENERAL GUIDANCE ONLY AND DO REPRESENT SLOPES OR DIFFERENCES IN ELEVATIONS.



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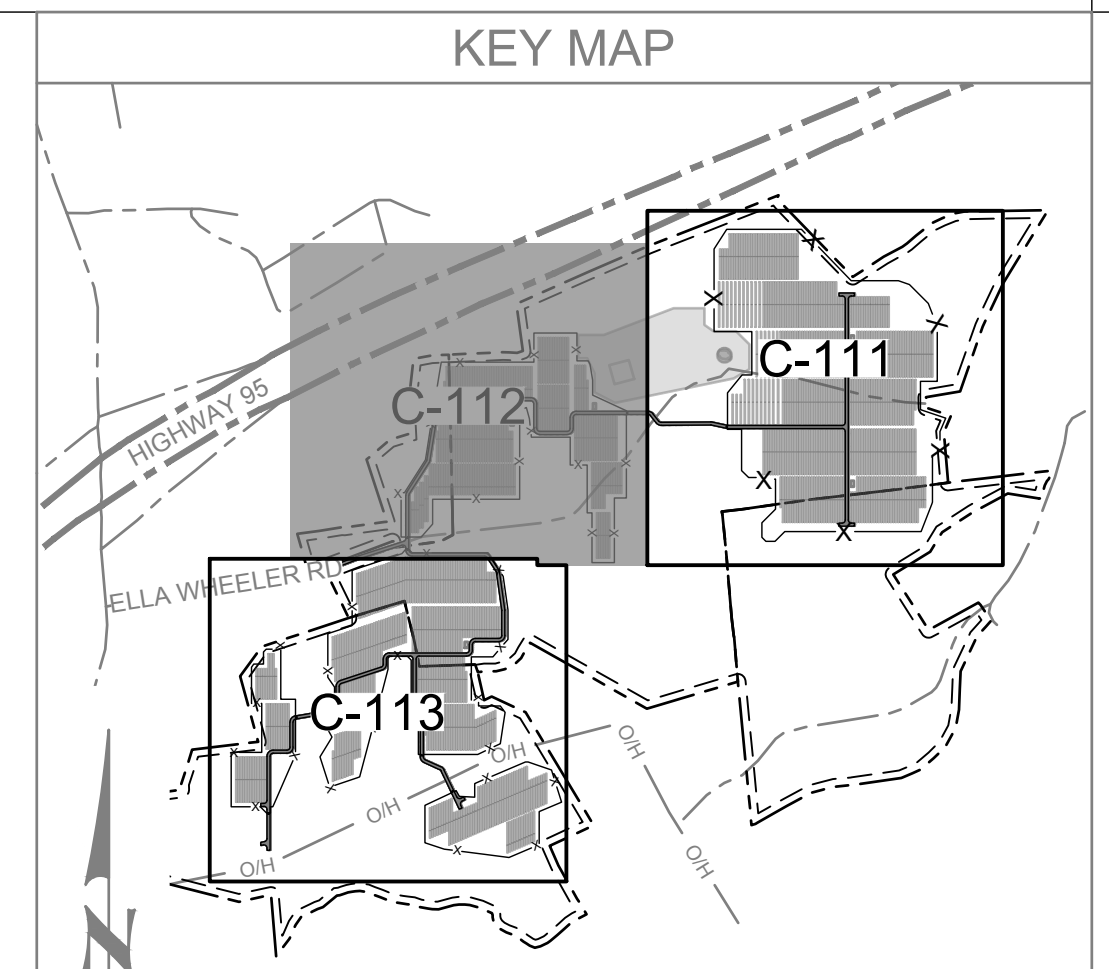
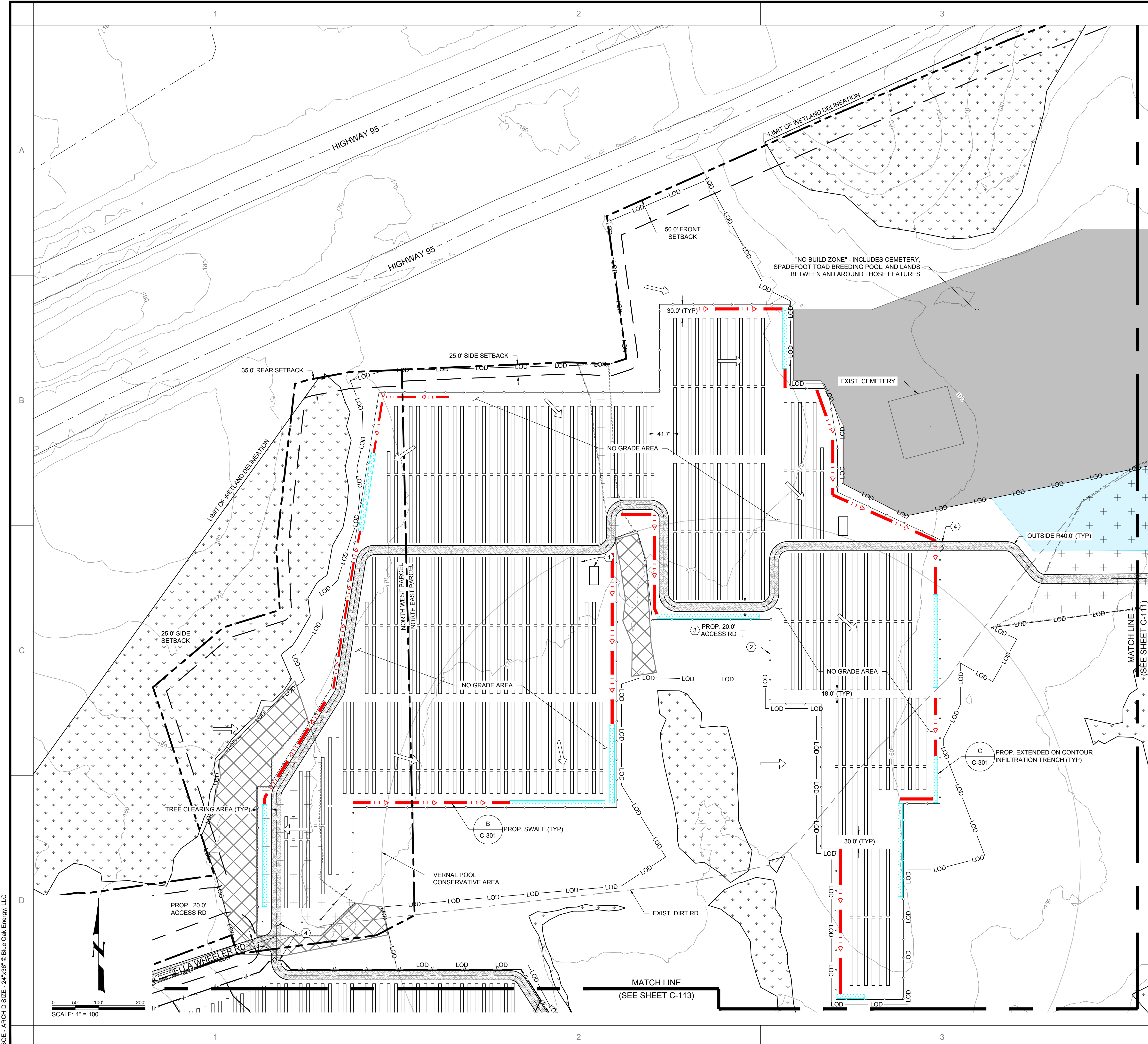
DRAWN:	JT, LUK
CHKD:	JB
P.L.:	MLB
PROJECT #:	COR16.005
FILE NAME:	C110.dwg
DATE:	02/28/18
BY (PRINTED):	JT
DATE:	02/28/18
DESCRIPTION:	PRELIMINARY

PROJECT: PAWCATUCK SOLAR CENTER
ELLA WHEELER ROAD, NORTH STONINGTON, CT 06959

DRAWING TITLE: GRADING & DRAINAGE PLAN - AREA NORTH EAST

DRAWING NO. C-111





LEGEND

	PROPERTY LINE
	SETBACK
	STREAM
	WETLAND DELINEATION BY ALL POINTS TECHNOLOGY EXIST. MAJOR CONTOUR
	TREES TO BE CLEARED SELECTIVELY
	TREES TO BE CLEARED AND GRUBBED
	PROPOSED SOLAR TRACKER
	PROP. ACCESS ROAD
	PROP. FENCE
	LIMIT OF DISTURBANCE
	PROP. SWALE
	DIRECTION OF STORM RUNOFF
	NO BUILD ZONE
	WIDE ARRAY SPACING ZONE
	EXIST. DIRT ROAD CENTERLINE

- KEYED NOTES:**
- PROPOSED SOLAR ARRAY AND OTHER ELECTRICAL EQUIPMENT (SEE ELECTRICAL AND STRUCTURAL PLANS).
 - PROPOSED 6' TALL CHAINLINK FENCE WITH 1 FT BARBED WIRE PER DOT STANDARD CHAINLINK FENCE, SHEET NO HW-913-01.
 - PROPOSED 20' WIDE ACCESS ROAD, (SEE SECTION D ON C-301)
 - PROPOSED 24' WIDE DOUBLE SWING GATE. GATE SHALL BE LOCKED WITH FIRE DEPARTMENT APPROVED PAD LOCK.
- GENERAL NOTE:**
- DIMENSIONS PROVIDED ARE FOR GENERAL GUIDANCE ONLY AND DO REPRESENT SLOPES OR DIFFERENCES IN ELEVATIONS.

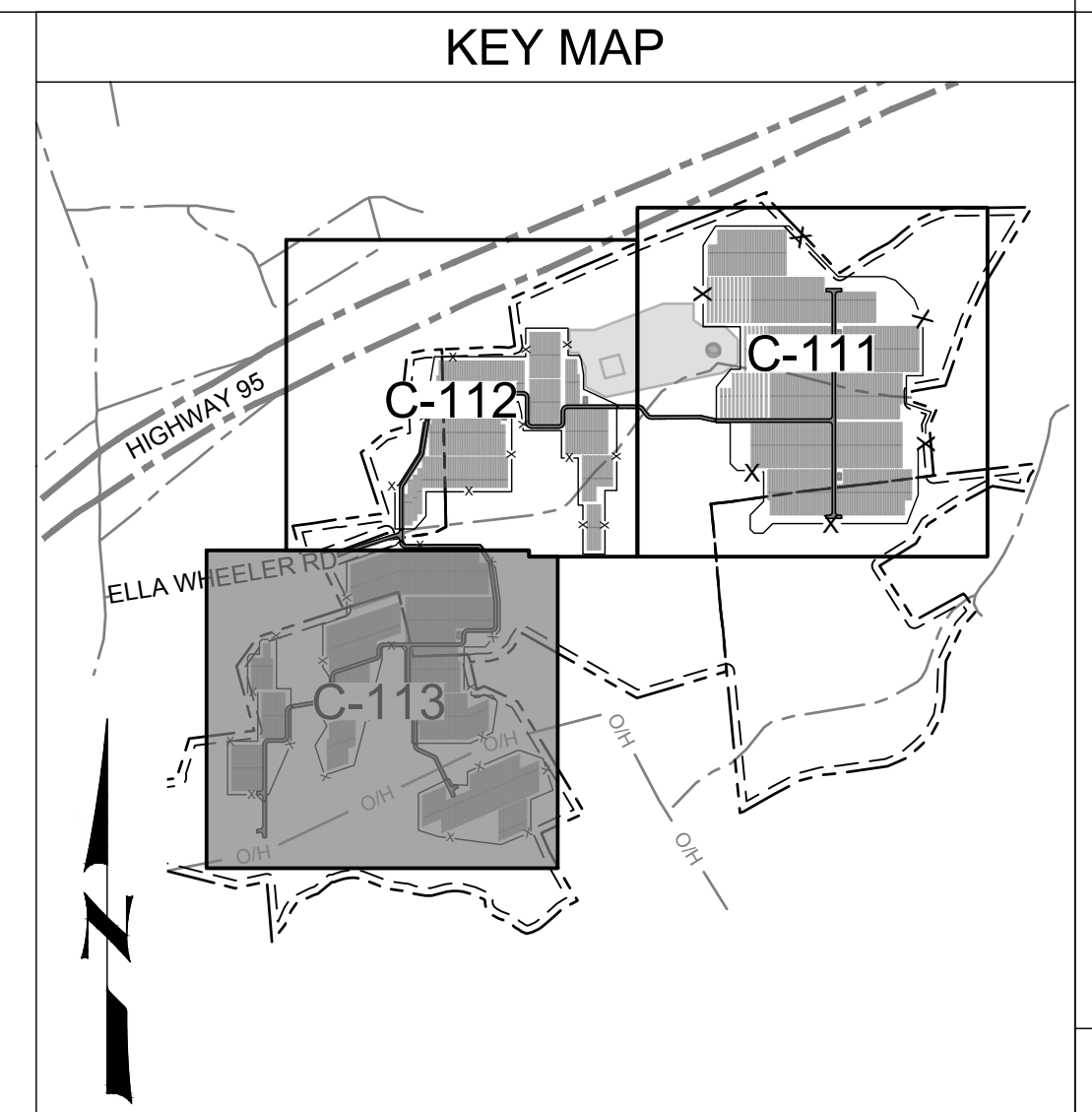


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DRAWN: JT, LUK	CHKD: JB
P.L.: KLB	PROJECT #: COR16-005
FILE NAME: C110.dwg	DATE: 02/28/18
BY: PRINTED	DATE: 02/28/18
DESCRIPTION: PRELIMINARY	DATE: 02/28/18

PROJECT: PAWCATUCK SOLAR CENTER
ELLA WHEELER ROAD, NORTH STONINGTON, CT 06359
DRAWING TITLE: GRADING & DRAINAGE PLAN - AREA NORTH WEST
DRAWING NO. C-112





LEGEND

	PROPERTY LINE
	SETBACK
	STREAM
	WETLAND DELINEATION BY ALL POINTS TECHNOLOGY
	EXIST. MAJOR CONTOUR
	TREES TO BE CLEARED SELECTIVELY
	TREES TO BE CLEARED AND GRUBBED
	TREES TO BE CLEARED (NO STUMPING & GRUBBING)
	PROP. SOLAR TRACKER
	PROP. ACCESS ROAD
	PROP. FENCE
	LIMIT OF DISTURBANCE
	PROP. SWALE
	DIRECTION OF STORM RUNOFF
	EXIST. PAVED ROAD
	EXIST. TRANSMISSION LINE
	EXIST. TRANSMISSION LINE ESMT
	PROP. TRANSMISSION LINE
	PROP. MAJOR CONTOUR
	LIMIT OF GRADING

- KEYED NOTES:**
- PROPOSED SOLAR ARRAY AND OTHER ELECTRICAL EQUIPMENT (SEE ELECTRICAL AND STRUCTURAL PLANS).
 - PROPOSED 6' TALL CHAINLINK FENCE WITH 1 FT BARBED WIRE PER DOT STANDARD CHAINLINK FENCE, SHEET NO HW-913-01.
 - PROPOSED 20' WIDE ACCESS ROAD, (SEE SECTION D ON C-301)
 - PROPOSED 24' WIDE DOUBLE SWING GATE. GATE SHALL BE LOCKED WITH FIRE DEPARTMENT APPROVED PAD LOCK.
- GENERAL NOTE:**
- DIMENSIONS PROVIDED ARE FOR GENERAL GUIDANCE ONLY AND DO REPRESENT SLOPES OR DIFFERENCES IN ELEVATIONS.



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DRAWN: JT, LJK	DATE: 02/28/18
CHKD: JB	BY: JT
P.L.: KLB	DESCRIPTION: PRELIMINARY
PROJECT #: COR16-005	FILE NAME: C110.dwg
DATE: 02/28/18	DATE: 02/28/18

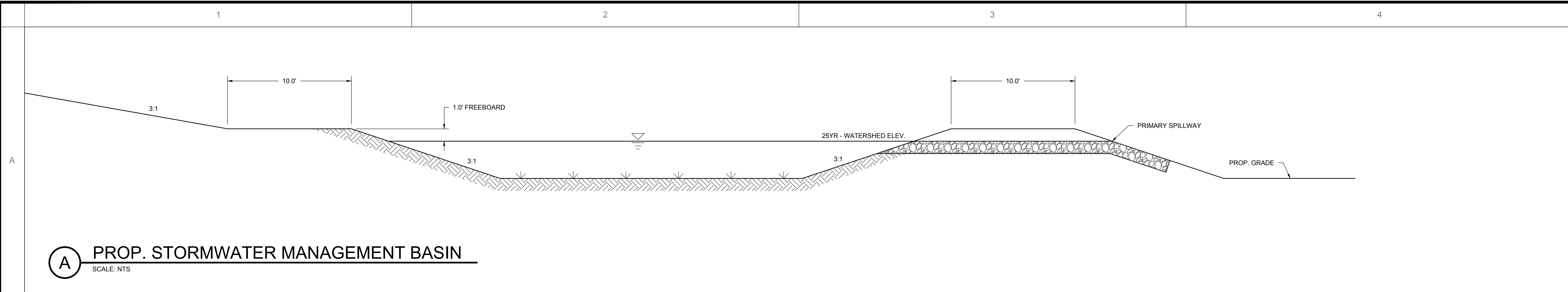
PROJECT: PAWCATUCK SOLAR CENTER
ELLA WHEELER ROAD, NORTH STONINGTON, CT 06359
DRAWING TITLE: GRADING & DRAINAGE PLAN - AREA SOUTH
DRAWING NO. C-113



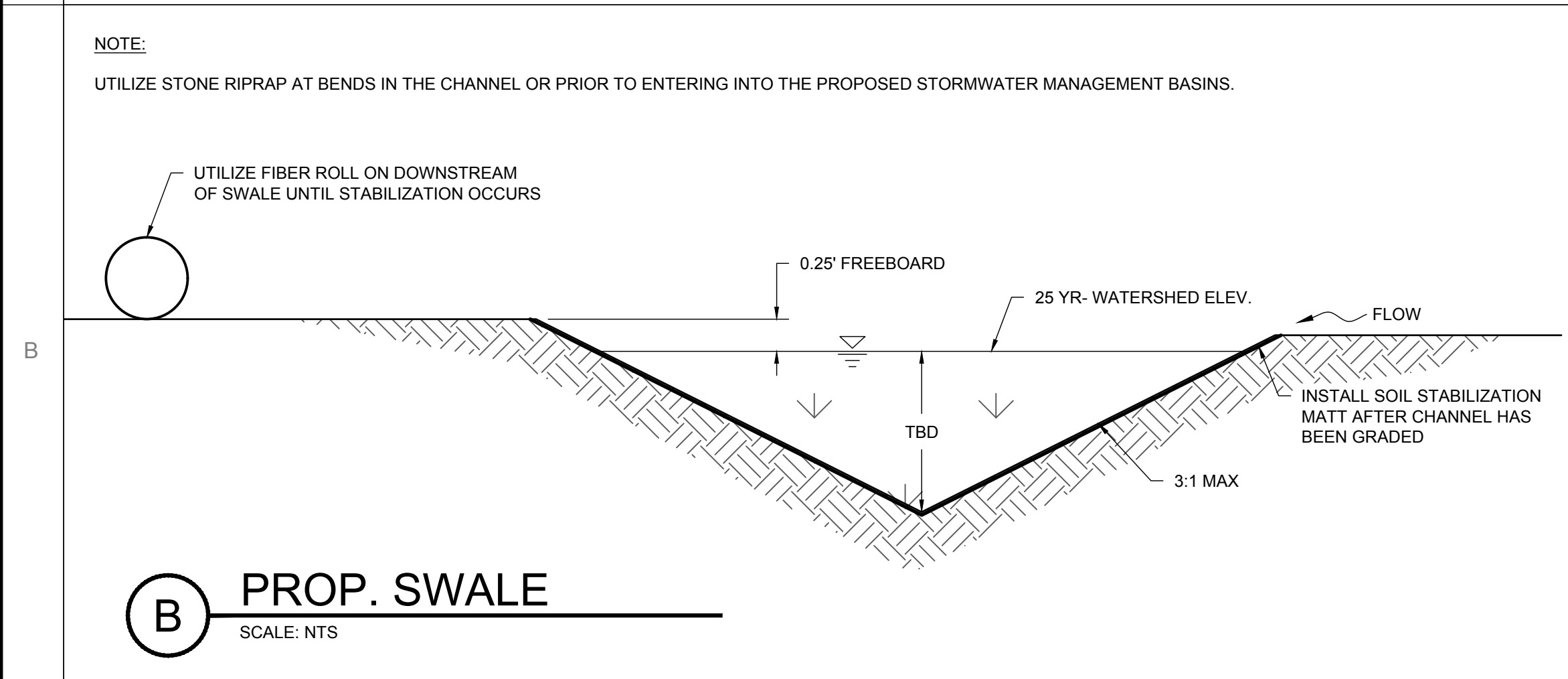
Know what's below.
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BOE - ARCH D SIZE - 24"x36" © Blue Oak Energy, LLC

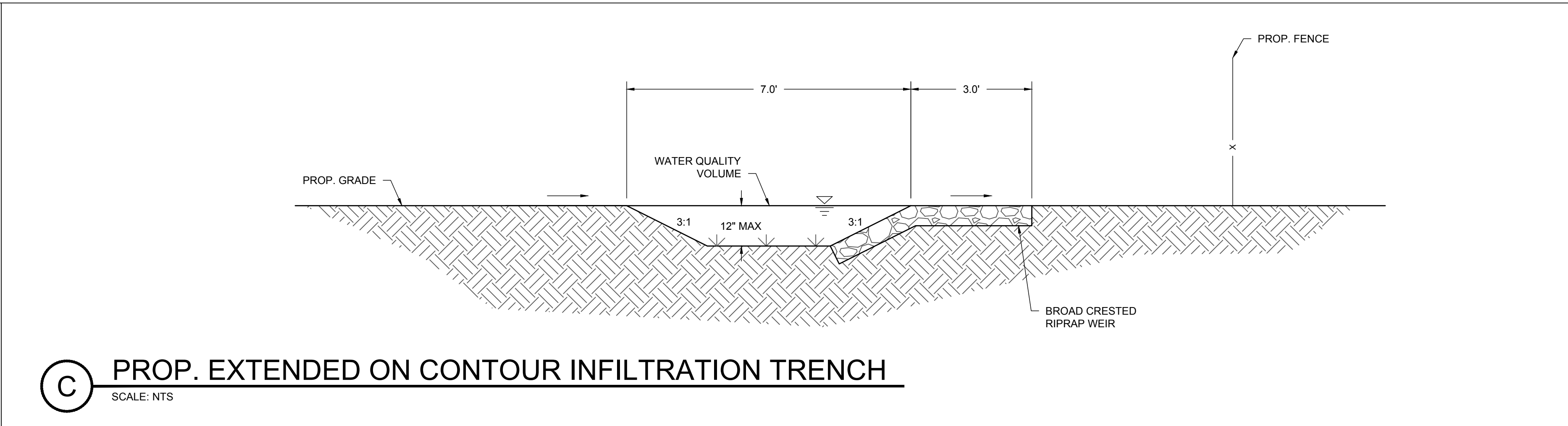
BOE - ARCH D SIZE - 24"x36" © Blue Oak Energy, LLC



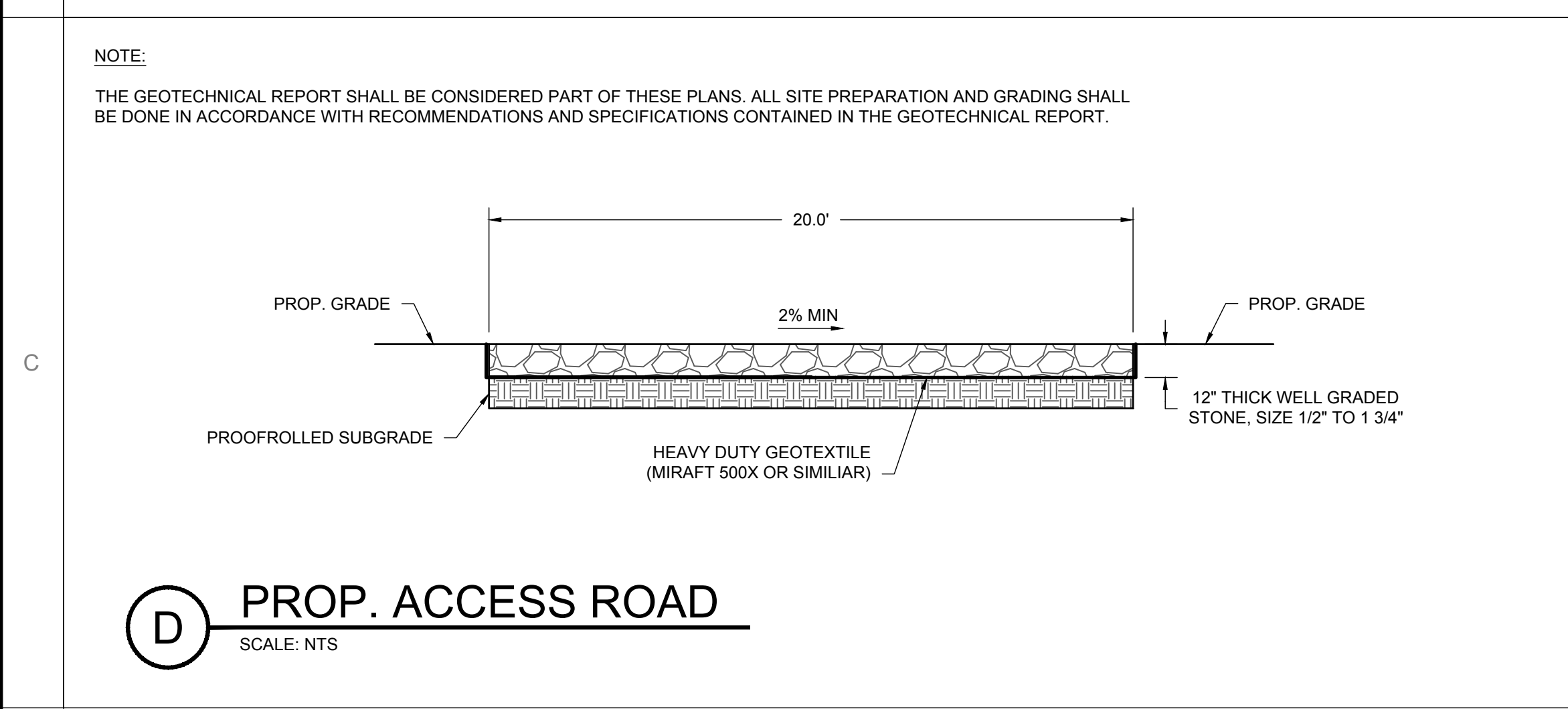
A PROP. STORMWATER MANAGEMENT BASIN
SCALE: NTS



B PROP. SWALE
SCALE: NTS



C PROP. EXTENDED ON CONTOUR INFILTRATION TRENCH
SCALE: NTS



D PROP. ACCESS ROAD
SCALE: NTS



PRELIMINARY

NOT FOR CONSTRUCTION

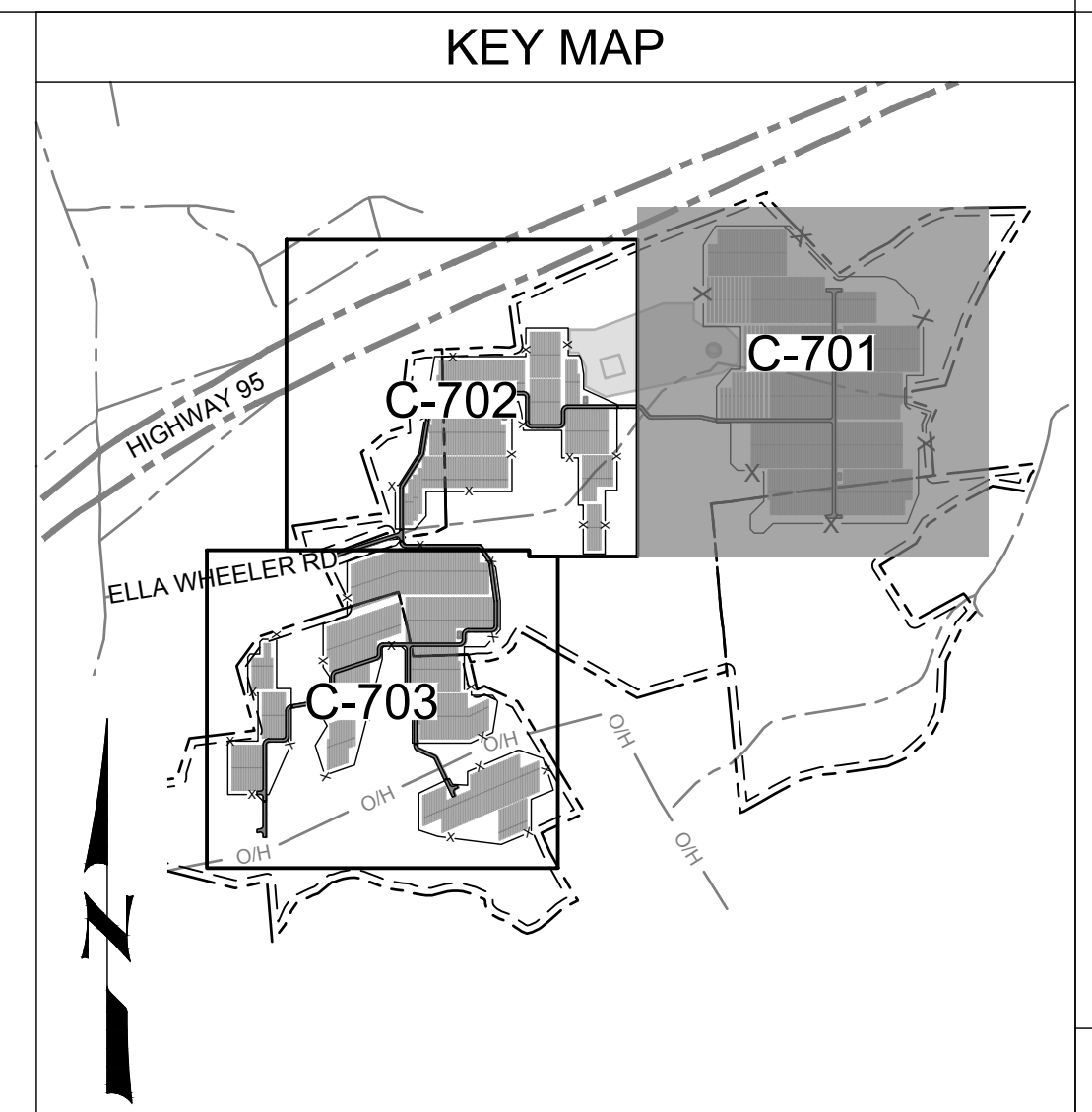
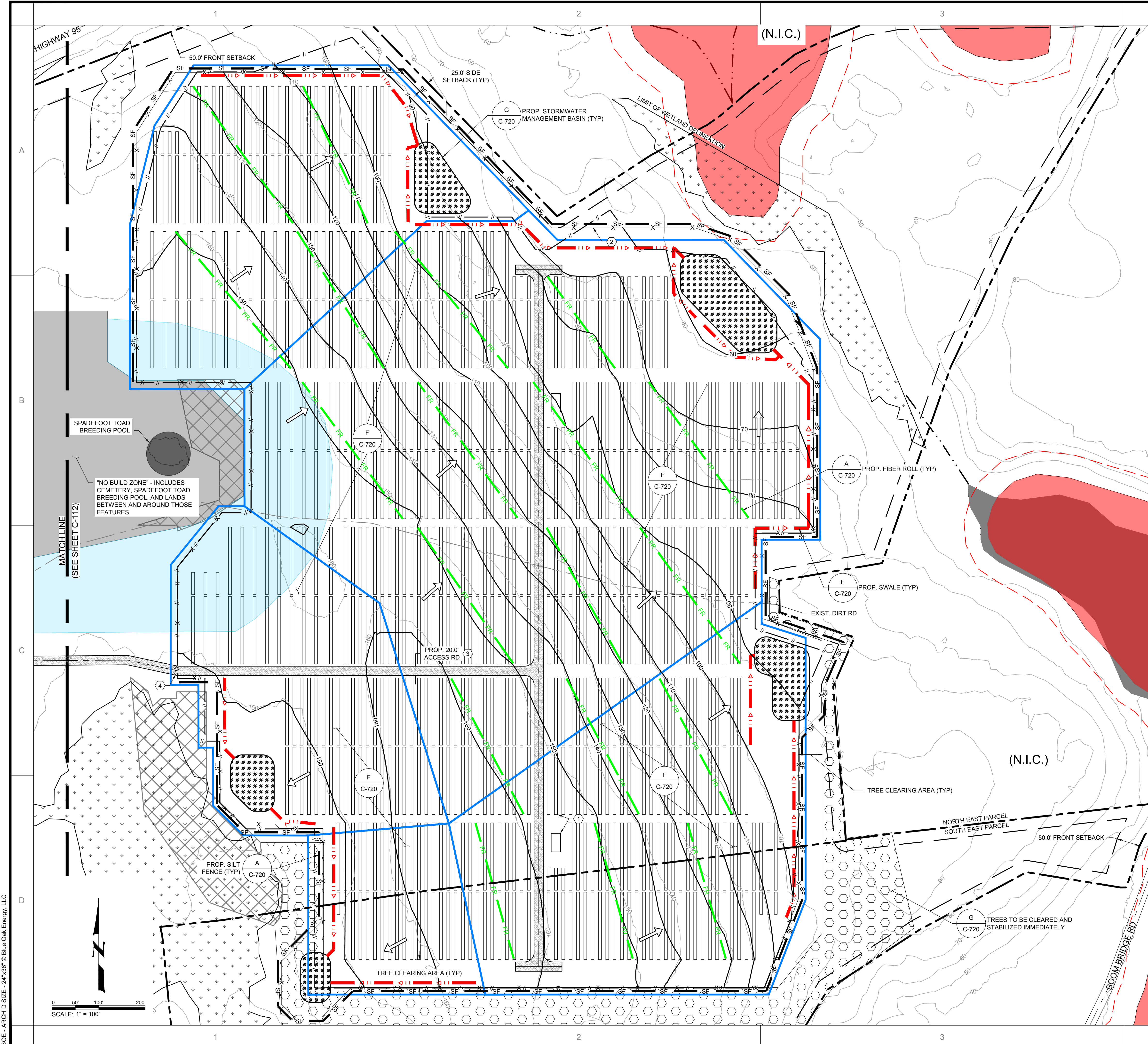
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P.L.: KLB	PROJECT #: COR16.005
FILE NAME: C301.dwg	DATE: 02/28/18
BY: JT	PRINTED: 02/28/18
DESCRIPTION: PRELIMINARY	DATE: 02/28/18

PROJECT: PAWCATUCK SOLAR CENTER
ECLA WHEELER ROAD
NORTH STONINGTON, CT 06359

DRAWING TITLE: SECTIONS & DETAILS

DRAWING NO. C-301

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LEGEND

	PROPERTY LINE
	SETBACK
	STREAM
	WETLAND DELINEATION BY ALL POINTS TECHNOLOGY
	EXIST. MAJOR CONTOUR
	TREES TO BE CLEARED SELECTIVELY
	TREES TO BE CLEARED (NO STUMPING & GRUBBING)
	PROP. SOLAR TRACKER
	PROP. ACCESS ROAD
	PROP. FENCE
	PROP. SWALE
	PROP. SILT FENCE
	WATERSHED AREA BOUNDARY
	DIRECTION OF STORM RUNOFF
	NO BUILD ZONE
	WIDE ARRAY SPACING ZONE
	EXIST. DIRT ROAD CENTERLINE
	100-YR FLOODPLAIN
	100-YR FLOODPLAIN SETBACK
	PROP. MAJOR CONTOUR
	LIMIT OF GRADING
	PROP. FIBER ROLL

- KEYED NOTES:**
- PROPOSED SOLAR ARRAY AND OTHER ELECTRICAL EQUIPMENT (SEE ELECTRICAL AND STRUCTURAL PLANS).
 - PROPOSED 6' TALL CHAINLINK FENCE WITH 1 FT BARBED WIRE PER DOT STANDARD CHAINLINK FENCE. SHEET NO HW-913-01.
 - PROPOSED 20' WIDE ACCESS ROAD.
 - PROPOSED 24' WIDE DOUBLE SWING GATE. GATE SHALL BE LOCKED WITH FIRE DEPARTMENT APPROVED PAD LOCK.
- GENERAL NOTES:**
- DIMENSIONS PROVIDED ARE FOR GENERAL GUIDANCE ONLY AND DO REPRESENT SLOPES OR DIFFERENCES IN ELEVATIONS.
 - FOR ADDITIONAL INFORMATION ON WATERSHEDS SEE SHEET C-800.



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P.LL:	MLB
PROJECT #:	COR16-005
FILE NAME:	C701.dwg
DATE:	02/28/18
BY (PRINTED):	JT
DATE:	02/28/2018
DESCRIPTION:	PRELIMINARY

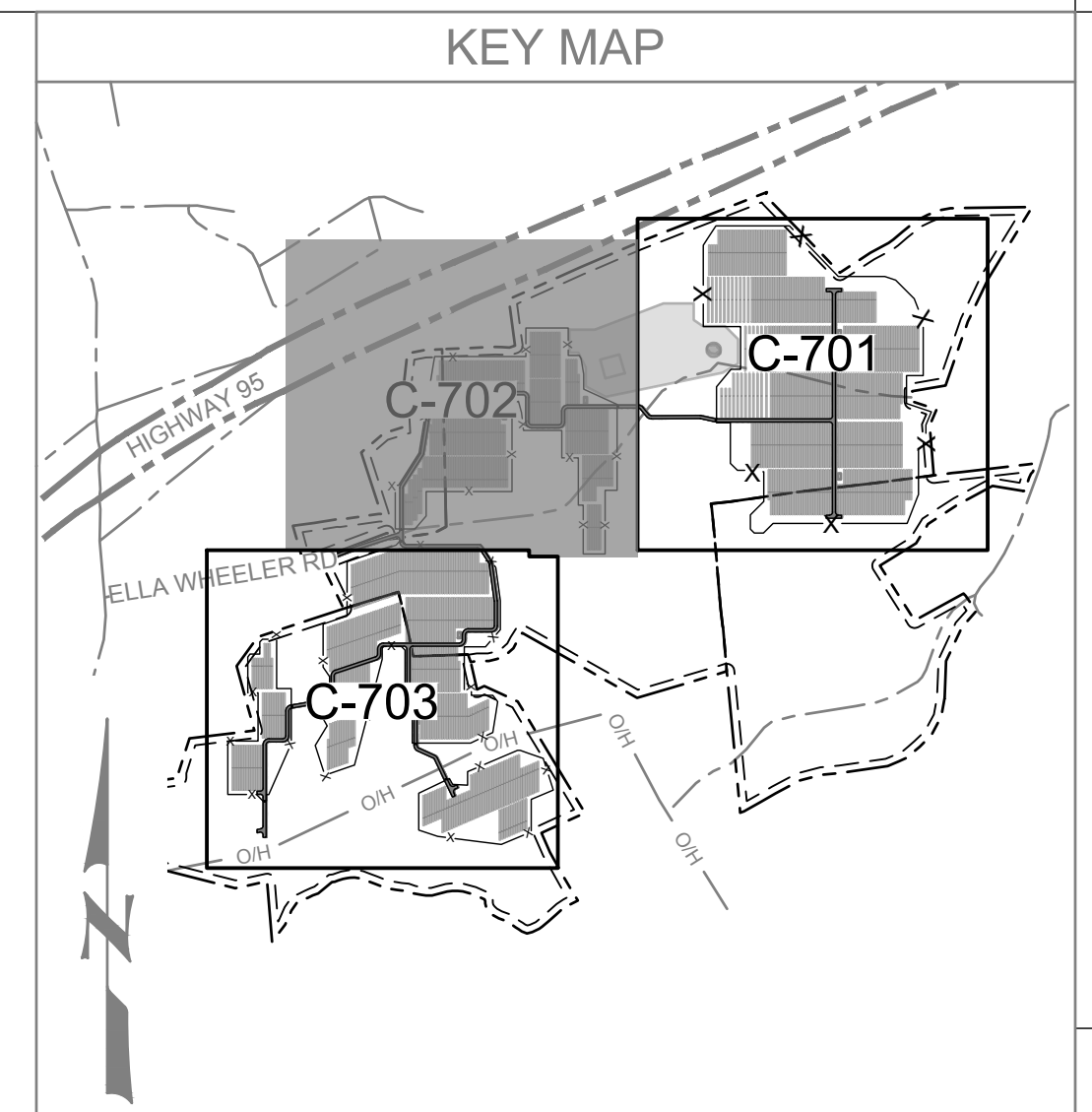
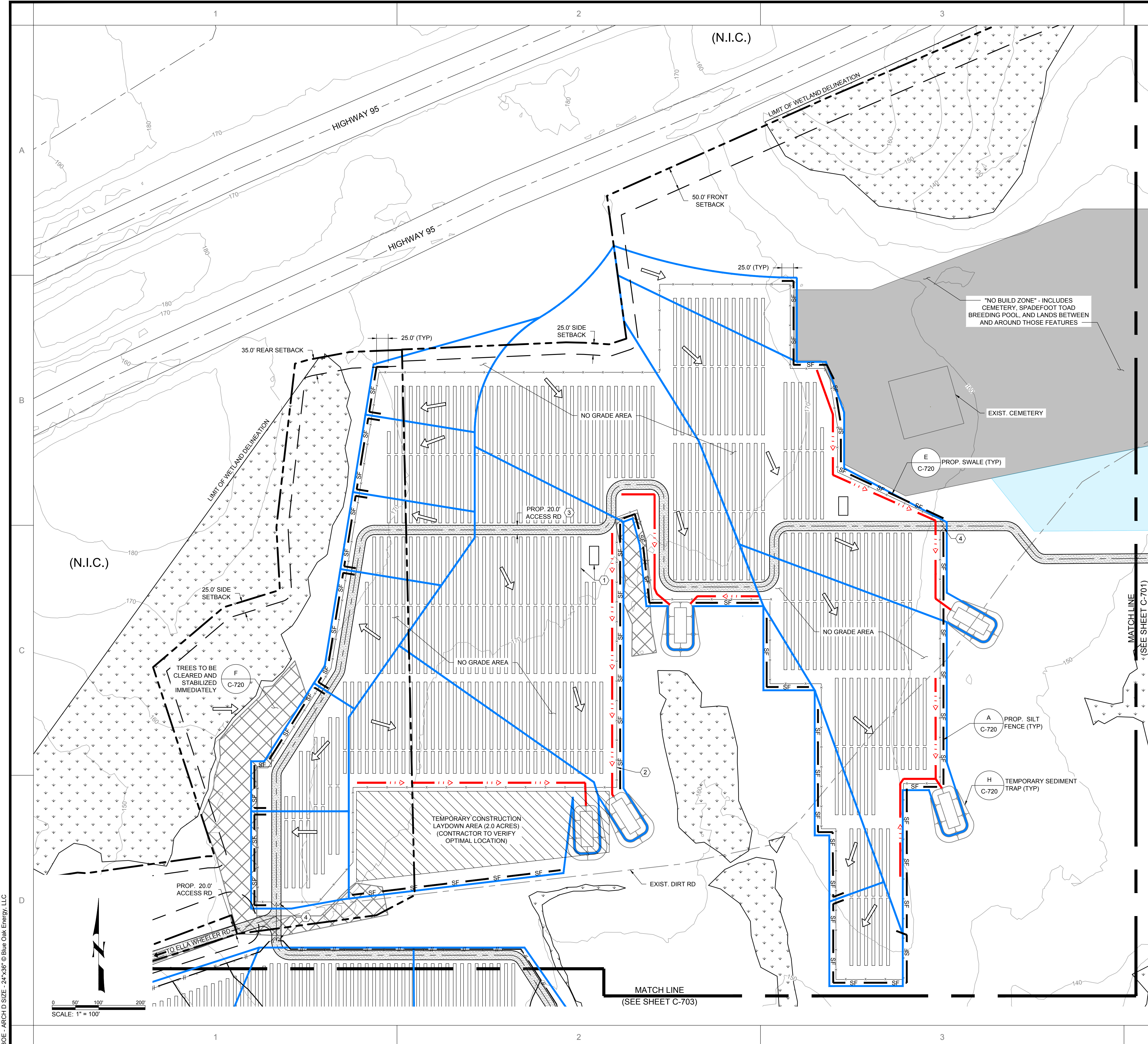
PROJECT: PAWCATUCK SOLAR CENTER
ELLA WHEELER ROAD, NORTH STONINGTON, CT 06359

DRAWING TITLE: EROSION & SEDIMENTATION PLAN - AREA NORTH EAST

DRAWING NO. C-701



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LEGEND

	PROPERTY LINE
	SETBACK
	STREAM
	WETLAND DELINEATION BY ALL POINTS TECHNOLOGY
	EXIST. MAJOR CONTOUR
	TREES TO BE CLEARED SELECTIVELY
	PROPOSED SOLAR TRACKER
	PROP. ACCESS ROAD
	PROP. FENCE
	PROP. SWALE
	PROP. SILT FENCE
	WATERSHED AREA BOUNDARY
	DIRECTION OF STORM RUNOFF
	NO BUILD ZONE
	WIDE ARRAY SPACING ZONE
	EXIST. DIRT ROAD CENTERLINE

- KEYED NOTES:**
- PROPOSED SOLAR ARRAY AND OTHER ELECTRICAL EQUIPMENT (SEE ELECTRICAL AND STRUCTURAL PLANS).
 - PROPOSED 6' TALL CHAINLINK FENCE WITH 1 FT BARBED WIRE PER DOT STANDARD CHAINLINK FENCE. SHEET NO HW-913-01.
 - PROPOSED 20' WIDE ACCESS ROAD.
 - PROPOSED 24' WIDE DOUBLE SWING GATE. GATE SHALL BE LOCKED WITH FIRE DEPARTMENT APPROVED PAD LOCK.
- GENERAL NOTES:**
- DIMENSIONS PROVIDED ARE FOR GENERAL GUIDANCE ONLY AND DO REPRESENT SLOPES OR DIFFERENCES IN ELEVATIONS.
 - FOR ADDITIONAL INFORMATION ON WATERSHEDS SEE SHEET C-800.

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PROJECT: PAWCATUCK SOLAR CENTER
 ELLA WHEELER ROAD, NORTH STONINGTON, CT 06359

DRAWING TITLE: EROSION & SEDIMENTATION PLAN - AREA NORTH WEST

DATE: 02/28/18
 BY: JT
 CHECKED: JB
 P.L.L.: KLB

PROJECT #: COR16-005
 FILE NAME: C701.dwg

DATE: 02/28/18
 BY: JT
 CHECKED: JB
 P.L.L.: KLB

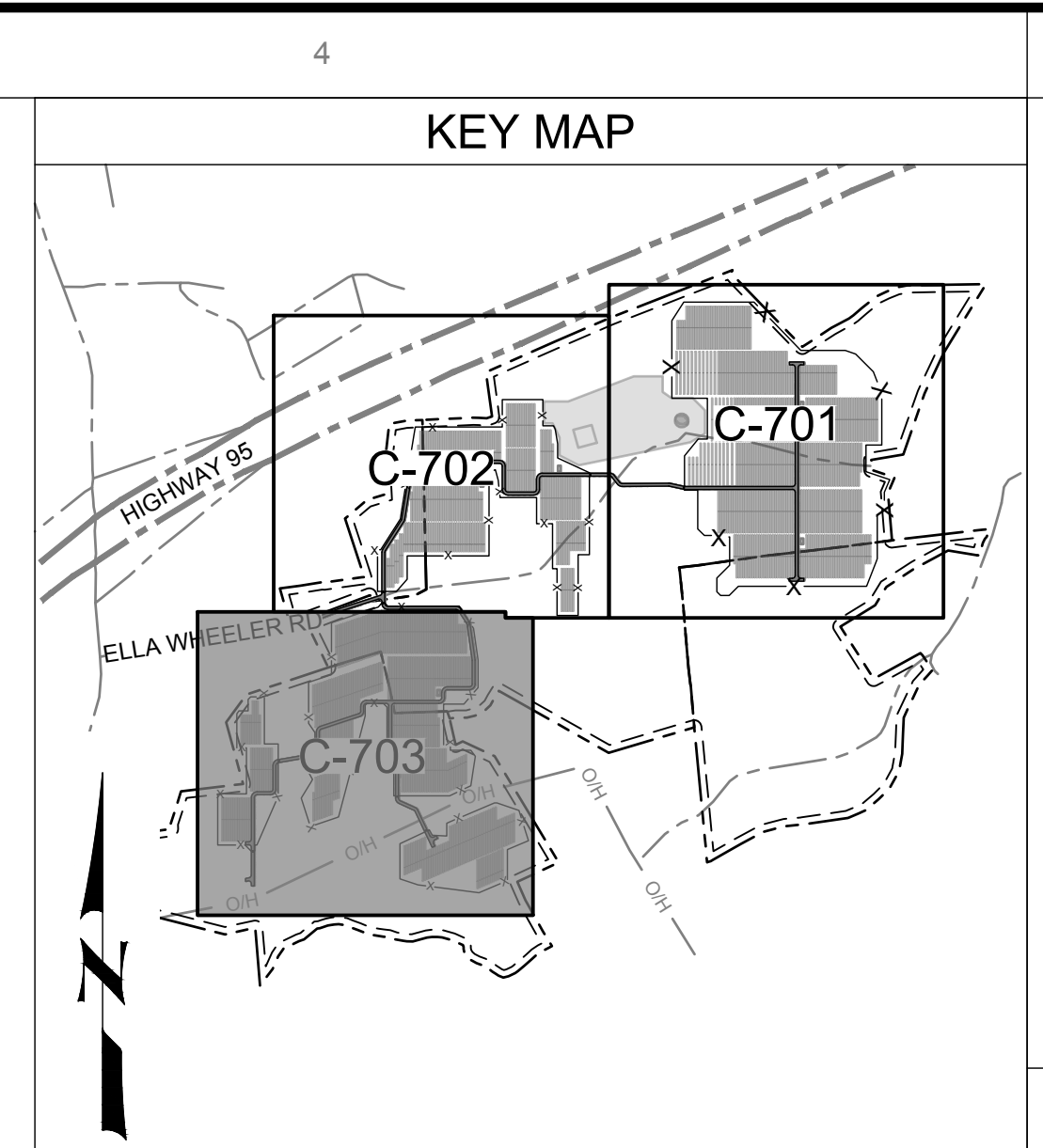
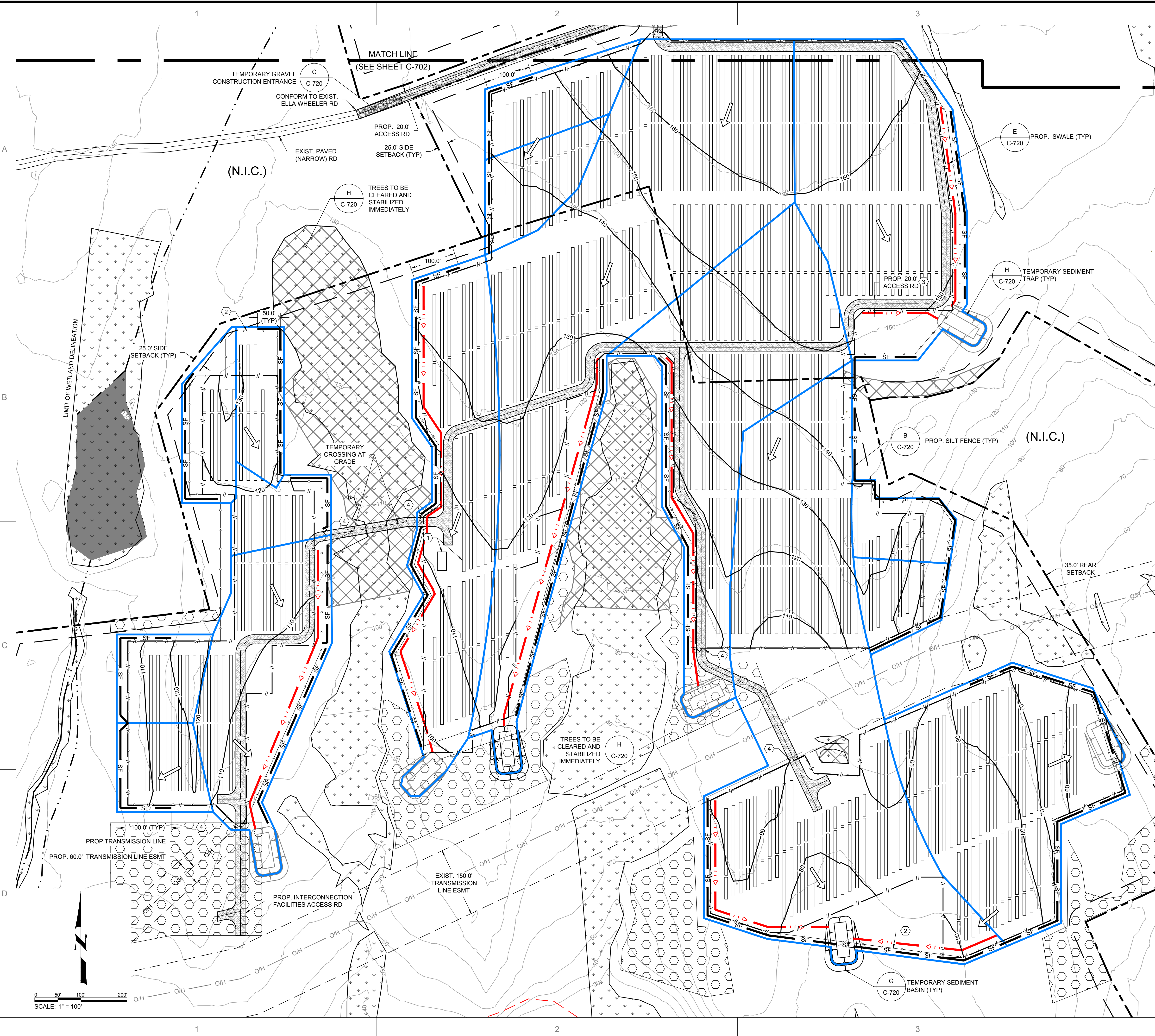
PRELIMINARY DESCRIPTION

PROJECT NO. C-702

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BOE - ARCH D SIZE - 24"x36" © Blue Oak Energy, LLC



LEGEND

	PROPERTY LINE
	SETBACK
	STREAM
	WETLAND DELINEATION BY ALL POINTS TECHNOLOGY
	EXIST. MAJOR CONTOUR
	TRESSES TO BE CLEARED SELECTIVELY
	TRESSES TO BE CLEARED (NO STUMPING & GRUBBING)
	PROP. SOLAR TRACKER
	PROP. ACCESS ROAD
	PROP. FENCE
	PROP. SWALE
	PROP. SILT FENCE
	WATERSHED AREA BOUNDARY
	DIRECTION OF STORM RUNOFF
	EXIST. PAVED ROAD
	EXIST. TRANSMISSION LINE
	EXIST. TRANSMISSION LINE ESMT
	PROP. TRANSMISSION LINE
	PROP. MAJOR CONTOUR
	LIMIT OF GRADING

- KEYED NOTES:**
- PROPOSED SOLAR ARRAY AND OTHER ELECTRICAL EQUIPMENT (SEE ELECTRICAL AND STRUCTURAL PLANS).
 - PROPOSED 6' TALL CHAINLINK FENCE WITH 1 FT BARBED WIRE PER DOT STANDARD CHAINLINK FENCE. SHEET NO HW-913-01.
 - PROPOSED 20' WIDE ACCESS ROAD.
 - PROPOSED 24' WIDE DOUBLE SWING GATE. GATE SHALL BE LOCKED WITH FIRE DEPARTMENT APPROVED PAD LOCK.
- GENERAL NOTES:**
- DIMENSIONS PROVIDED ARE FOR GENERAL GUIDANCE ONLY AND DO REPRESENT SLOPES OR DIFFERENCES IN ELEVATIONS.
 - FOR ADDITIONAL INFORMATION ON WATERSHEDS SEE SHEET C-800.



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CHKD: JB	BY: JT
P.L.: KLB	DESCRIPTION: PRELIMINARY
PROJECT #: COR16-005	DATE: 02/28/18
FILE NAME: C703.dwg	DATE: 02/28/18

PROJECT: PAWCATUCK SOLAR CENTER
ELLA WHEELER ROAD, NORTH STONINGTON, CT 06359

DRAWING TITLE: EROSION & SEDIMENTATION PLAN - AREA SOUTH

DRAWING NO. C-703



Know what's below.
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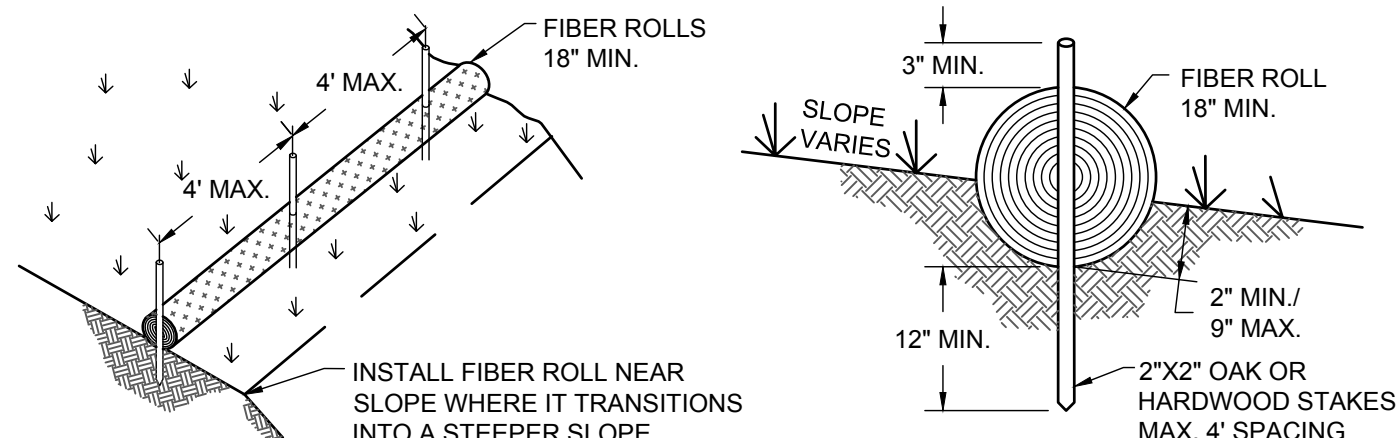
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CONSTRUCTION SPECIFICATIONS

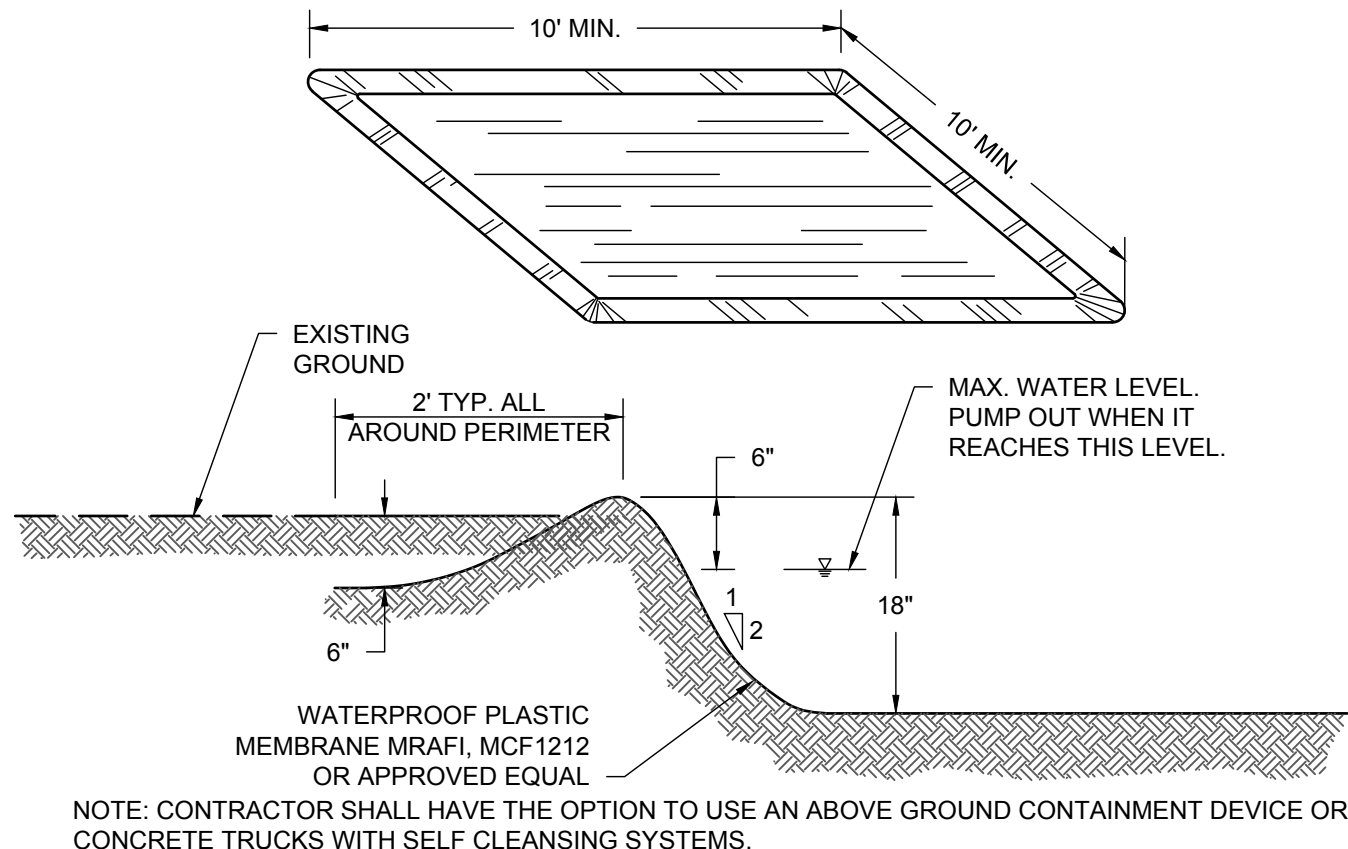
1. INSTALL FIBER ROLL ALONG A LEVEL CONTOUR.
2. FIBER ROLL SHALL BE A MINIMUM OF 2" EMBEDDED IN THE GROUND AND A MAXIMUM OF 9" EMBEDDED.
3. USE 2"x2" OAK OR HARDWOOD STAKES AT A SPACING OF 4' MAX TO ANCHOR FIBER ROLL/COMPOST SOCK INTO GROUND.

MAINTENANCE

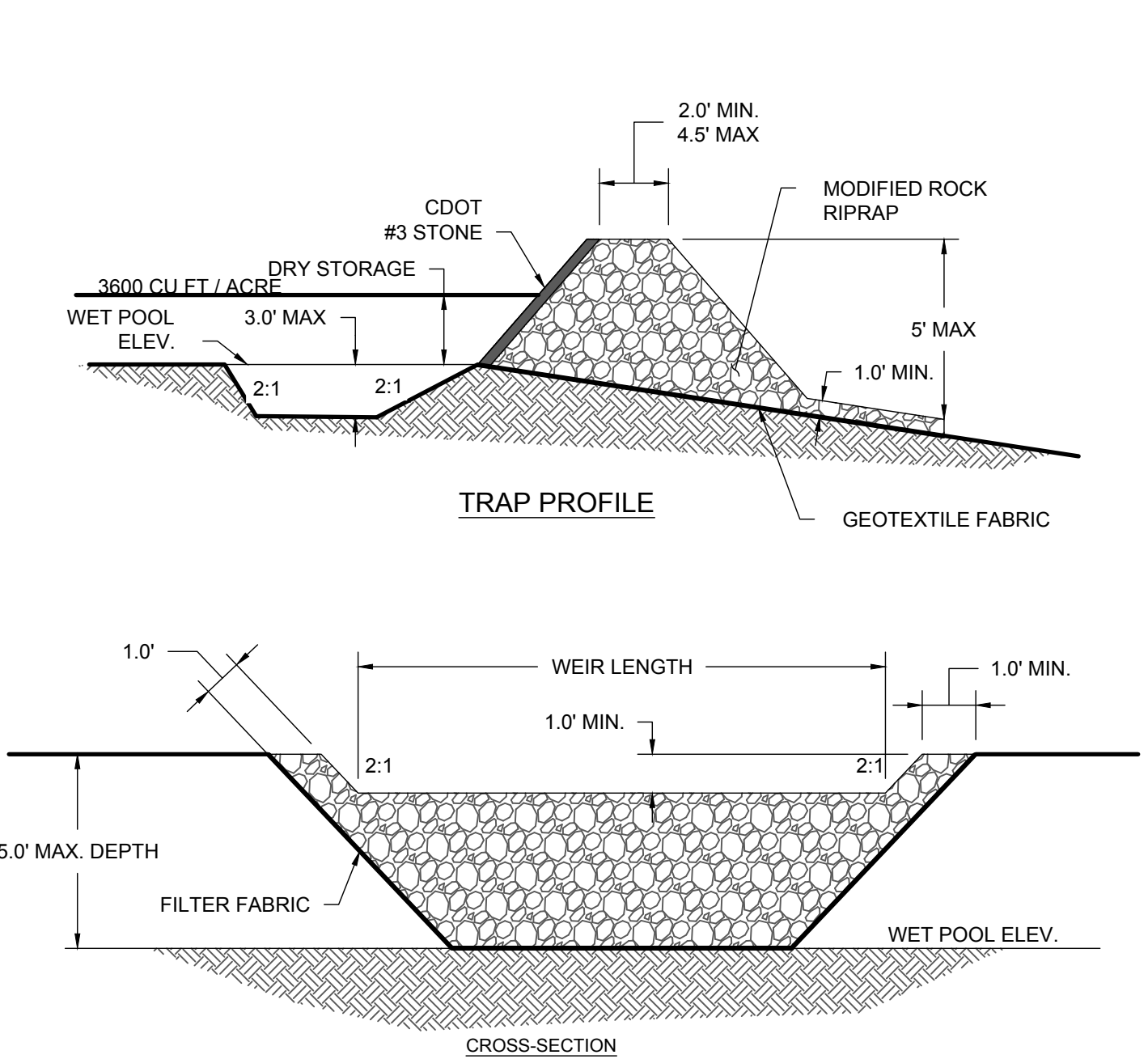
INSPECT COMPOST SOCKS WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1/2 INCH OR GREATER). REMOVE ACCUMULATED SEDIMENT AND ANY DEBRIS. COMPOST SOCK MUST BE REPLACED IF CLOGGED OR TORN. IF PONDING BECOMES EXCESSIVE, SOCK MAY NEED TO BE REPLACED WITH A LARGER DIAMETER OR A DIFFERENT MEASURE.



A FIBER ROLL/COMPOST SOCK
SCALE: NTS

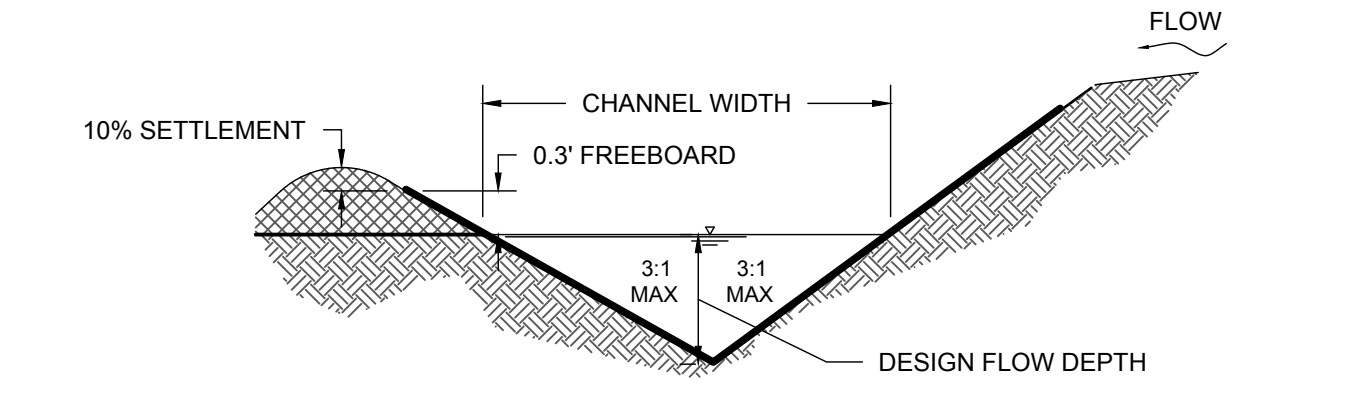


D CONCRETE WASHOUT
SCALE: NTS



- CONSTRUCTION SPECIFICATIONS**
1. SEDIMENT TRAP SHALL CONFORM TO TST TEMPORARY SEDIMENT TRAP FROM 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
 2. ENSURE THAT THE FILL MATERIAL FOR EMBANKMENT IS FREE OF ROOTS, WOODY VEGETATION, OR OTHER OBJECTIONABLE MATERIAL.
 3. CONSTRUCTION THE OUTLET SECTION IN THE EMBANKMENT. PROTECT RIPRAP AND SOIL FROM PIPING USING FILTER FABRIC.

H TEMPORARY SEDIMENT TRAP [TST]
SCALE: NTS



E TEMPORARY DIVERSION DITCH
SCALE: NTS

GROUND STABILIZATION

AREA DESCRIPTION	STABILIZATION TIME FRAME
DIVERSION DITCH	7 DAYS
SLOPES STEEPER THAN 3:1	7 DAYS
SLOPES FLATTER THAN 3:1	14 DAYS
ALL OTHER AREAS	14 DAYS

- TEMPORARY SEEDING SCHEDULE**
- FERTILIZE 300 LBS/ACRE UTILIZING 10-10-10
 - LIME 2 TONS/ACRE
 - MULCH IF OUTSIDE OF OPTIMUM SEEDING DATES
 - UTILIZE SEED MIX CONFORMING TO FIG. TS-2 OF THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL

- PERMANENT SEEDING SCHEDULE**
- FERTILIZE 500 LBS/ACRE UTILIZING 10-10-10, OAE
 - LIME 2 TONS/ACRE
 - UTILIZE SEED MIX CONFORMING TO FIG. TS-2 OF THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL

F SEEDING DETAIL
SCALE: NTS

CONSTRUCTION SPECIFICATIONS

1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
2. SILT FENCE SHALL BE LOCATED AT 10 FEET DOWN GRADIENT FROM THE TOE OF SLOPE.
3. DO NOT LAYOUT PERIMETER CONTROL SILT FENCE AT PROPERTY CORNERS AS A SINGLE RUN. INSTALL SILT FENCE IN SECTION UTILIZING J HOOKS SO RUNOFF DOES NOT CONCENTRATE AND OVERWHELM THE SYSTEM CONTRIBUTING DRAINAGE TO SECTIONS OF SILT FENCE SHOULD BE 1 ACRE OR LESS.
4. WHEN THE CONTOUR CAN NOT BE FOLLOWED INSTALL THE SILT FENCE SUCH THAT PERPENDICULAR WINGS ARE CREATED TO BREAK THE VELOCITY OF WATER FLOWING ALONG THE FACE. SPACING SHALL BE AT 75 FEET MAX.
5. FOR FURTHER INFORMATION SEE BMP GSF SILT FENCE FROM 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

MAINTENANCE

INSPECT SILT FENCE AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN TO REDUCE PRESSURE ON THE FENCE. REMOVE SEDIMENT DEPOSITS AND BRING AREA TO GRADE AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.

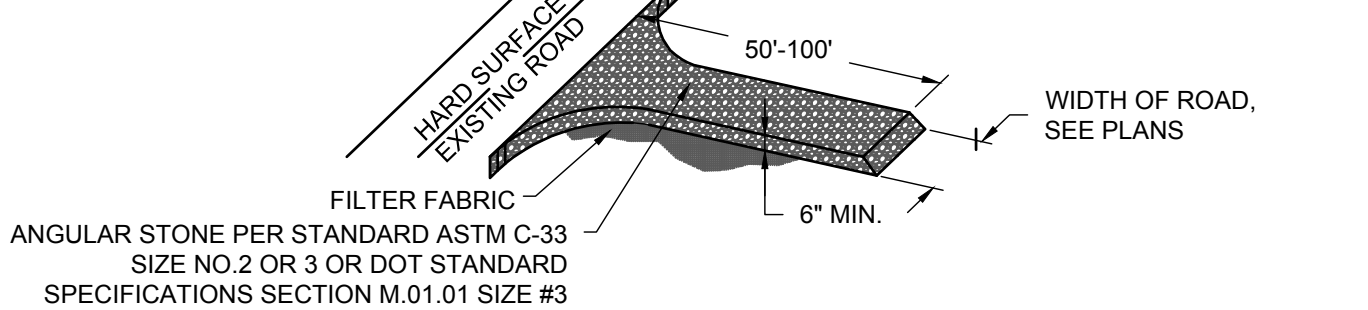
B TYPICAL SILT FENCE [GSF]
SCALE: NTS

CONSTRUCTION SPECIFICATIONS

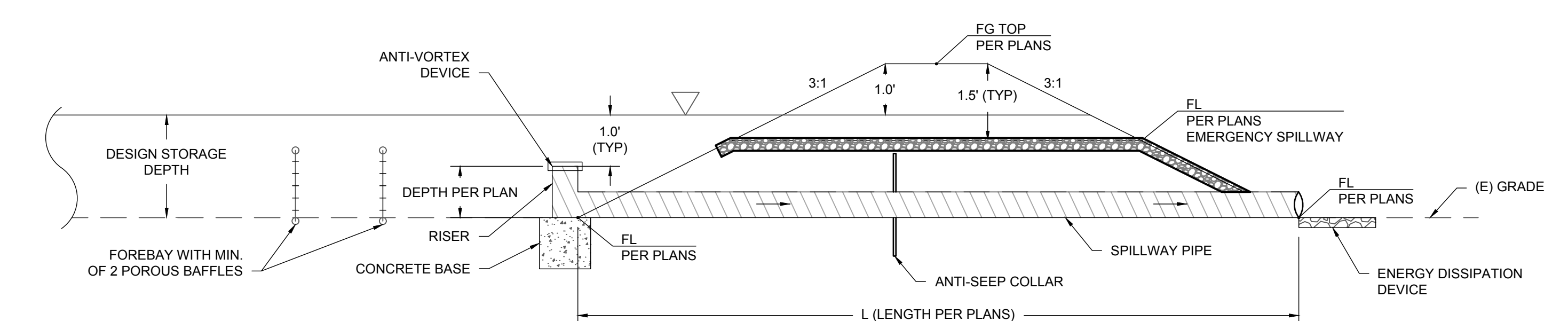
1. TO CONSTRUCT CLEAR THE ENTRANCE AND EXIT AREA OF ALL VEGETATION ROOTS AND OTHER OBJECTIONABLE MATERIAL AND PROPERLY GRADE IT.
2. PLACE THE GRAVEL OVER A GEOTEXTILE FABRIC TO THE SPECIFIC GRADE AND DIMENSIONS SHOWN ON THE PLANS.
3. FOR FURTHER INFORMATION SEE BMP CE CONSTRUCTION ENTRANCE FROM THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

MAINTENANCE

MAINTAIN THE GRAVEL IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH ADDITIONAL STONE. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED OR TRACKED INTO PUBLIC ROADWAYS.



C TEMPORARY GRAVEL CONSTRUCTION ENTRANCE [CE]
SCALE: NTS



- NOTES**
1. EARTHEN EMBANKMENT SHALL BE SEEDED WITH TEMPORARY VEGETATION IMMEDIATELY AFTER INSTALLATION.
 2. CONSTRUCTION OPERATION SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION ARE MINIMIZED.
 3. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE UPSLOPE DRAINAGE AREA HAS BEEN STABILIZED.

G TYPICAL SEDIMENT BASIN SPILLWAY PROFILE
SCALE: NTS

EROSION AND SEDIMENTATION CONTROL NOTES:

1. CONTRACTOR SHALL ASSUME THE CONCEPTS ON THE EROSION AND SEDIMENTATION CONTROL PLAN, IF PROVIDED, ARE SCHEMATIC MINIMUM REQUIREMENTS, THE FULL EXTENT OF WHICH ARE TO BE DETERMINED BY THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR THE EXACT DESIGN AND EXTENT OF THE EROSION CONTROL SYSTEM SO THAT IT WORKS WITH THE CONTRACTOR'S INTENDED USE AND MANAGEMENT OF THE CONSTRUCTION SITE.
2. ALL EROSION CONTROL FACILITIES SHALL BE INSPECTED BY THE CONTRACTOR AND REPAIRED, AS REQUIRED, AT THE CONCLUSION OF EACH WORKING DAY DURING THE RAINY SEASON. THE CONTRACTOR SHALL INSPECT THE EROSION CONTROL FACILITIES AND MAKE NECESSARY REPAIRS PRIOR TO ANTICIPATED STORMS AND AT REASONABLE INTERVALS DURING STORMS OF EXTENDED DURATION. REPAIRS TO DAMAGED FACILITIES SHALL BE MADE IMMEDIATELY UPON DISCOVERY.
3. AS SOON AS PRACTICAL FOLLOWING EACH STORM, THE CONTRACTOR SHALL REMOVE ANY ACCUMULATION OF SILT OR DEBRIS FROM THE EROSION CONTROL SEDIMENT BASINS AND SHALL CLEAR THE OUTLET PIPES OF ANY BLOCKAGE.
4. STOCKPILED MATERIAL SHALL BE COVERED WITH VISQUEEN OR A TARPULIN UNTIL THE MATERIAL IS REMOVED FROM THE SITE. ANY REMAINING BARE SOIL THAT EXISTS AFTER THE STOCKPILE HAS BEEN REMOVED SHALL BE COVERED UNTIL A NATURAL GROUND COVER IS ESTABLISHED OR IT MAY BE SEEDED OR PLANTED TO PROVIDE GROUND COVER PRIOR TO THE FALL RAINY SEASON.
5. PRIOR TO THE COMMENCEMENT OF ANY CLEARING, GRADING, OR EXCAVATION, THE CONTRACTOR SHALL VERIFY THAT THE CLIENT HAS SUBMITTED TO THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENT PROTECTION (CTDEEP) A NOTICE OF INTENT (NOI) FOR COVERAGE UNDER THE CTDEEP STORM WATER GENERAL PERMIT, IF REQUIRED BY THE STATE. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE NOI ON THE CONSTRUCTION SITE.
6. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
7. CONTRACTOR SHALL MAINTAIN ADJACENT STREETS IN A NEAT, CLEAN, DUST FREE AND SANITARY CONDITION AT ALL TIMES AND TO THE SATISFACTION OF THE CLARK COUNTY INSPECTOR. THE ADJACENT STREET SHALL BE KEPT CLEAN OF DEBRIS, WITH DUST AND OTHER NUISANCE BEING CONTROLLED AT ALL TIMES. DEVELOPER SHALL BE RESPONSIBLE FOR ANY CLEAN UP ON ADJACENT STREETS AFFECTED BY THEIR CONSTRUCTION. METHOD OF STREET CLEANING SHALL BE BY DRY SWEEPING OF ALL PAVED AREAS. NO STOCKPILING OF BUILDING MATERIALS WITHIN THE CLARK COUNTY RIGHT-OF-WAY IS PERMITTED.
8. ALL EROSION CONTROL MATERIALS SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED.
9. PROTECT DOWN SLOPE DRAINAGE COURSES, STREAMS, AND STORM DRAINS WITH ROCK FILLED SAND BAGS, TEMPORARY DRAINAGE SWALES, SILT FENCES, EARTH BERMS, STORM DRAIN INLET FILTERS AND/OR STRAW BALES USED ONLY IN CONJUNCTION WITH PROPERLY INSTALLED SILT FENCES.

CONSTRUCTION SEQUENCE

- PREPARE LIMITS OF CONSTRUCTION & CONSTRUCTION ENTRANCE**
1. FLAG THE LIMITS OF CONSTRUCTION NECESSARY TO FACILITATE THE PRECONSTRUCTION MEETING.
 2. HOLD PRECONSTRUCTION MEETING. (REMEMBER TO CALL BEFORE YOU DIG 1-800-922-4455).
 3. FLAG REMAINDER OF THE LIMITS OF CONSTRUCTION AND TREE PROTECTION ZONES.
 4. INSTALL THE CONSTRUCTION ENTRANCE.
- INSTALL TEMPORARY E&S CONTROLS**
5. INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS AND TREE PROTECTION DEVICES IN ACCORDANCE WITH THE E&S PLAN.
 6. CUT TREES WITHIN THE DEFINED CLEARING LIMITS AND REMOVE CUT WOOD, CHIP BRUSH AND SLASH. STOCKPILE CHIPS FOR FUTURE USE OR REMOVE OFF SITE.
 7. CONSTRUCT SEDIMENT BASINS.
- ROUGH GRADING OF THE SITE**
8. IF REQUIRED, STRIP AND STOCKPILE ALL TOPSOIL THAT IS WITHIN THE FOOTPRINT OF THE CONSTRUCTION SITE OR AS INDICATED ON PLANS AND REFERENCE STOCKPILE MANAGEMENT FOR EROSION AND SEDIMENT CONTROLS. EITHER REMOVE TREE STUMPS TO AN APPROVED DISPOSAL SITE OR CHIP IN PLACE AS INDICATED ON THE PLANS.
 9. MAKE ALL CUTS AND FILLS REQUIRED. ESTABLISH THE SUBGRADE FOR INVERTER PADS AND ACCESS ROADWAY, AS REQUIRED.
- INSTALL PERMANENT E&S CONTROLS AND DRAINAGE SYSTEM**
10. BEGIN CONSTRUCTION OF THE ACCESS ROADS AND INVERTER PADS AS INDICATED ON THE PLANS.
 11. PRIOR TO INSTALLING SURFACE WATER CONTROLS SUCH AS TEMPORARY DIVERSIONS AND STONE DIKES, INSPECT EXISTING CONDITIONS TO ENSURE DISCHARGE LOCATIONS ARE STABLE. IF NOT STABLE, REVIEW DISCHARGE CONDITIONS WITH THE DESIGN ENGINEER AND IMPLEMENT ADDITIONAL STABILIZATION MEASURES PRIOR TO INSTALLING WATER SURFACE CONTROLS.
 12. INSTALL ALL PERMANENT DRAINAGE SYSTEMS SUCH AS SWALES AND BASINS AS INDICATED ON THE PLANS OR OTHERWISE MODIFIED BY THE DESIGN ENGINEER TO ADJUST FOR UNFORSEEN SITE CONDITIONS.
- FINISH GRADING OF THE SITE**
13. PREPARE SUB-BASE, SLOPES, SHOULDER AREAS, ACCESS ROADS AND ANY OTHER AREA OF DISTURBANCE FOR FINAL GRADING.
 14. INSTALL ACCESS ROADS AS INDICATED ON PLANS. FOLLOW GEOTECHNICAL RECOMMENDATIONS FOR STRUCTURAL ROAD SECTIONS AND RELATIVE COMPACTION.
 15. PLACE TOPSOIL WHERE REQUIRED. COMPLETE THE PERIMETER LANDSCAPE PLANTINGS.
 16. FINE GRADE, RAKE, SEED AND MULCH AS INDICATED ON PLANS.
- SOLAR FIELD**
17. INSTALLATION OF PV SYSTEM.
- FINAL STABILIZATION**
18. UPON SUBSTANTIAL COMPLETION OF THE ACCESS ROADS, COMPLETE THE BALANCE OF SITE WORK AND STABILIZATION OF ALL OTHER DISTURBED AREAS.
 19. INSPECT ALL PERMANENT SWALES, BASINS, AND DRAINAGE SYSTEMS IN GENERAL AND CLEAN AS NEEDED.
 20. AFTER SITE IS STABILIZED REMOVE TEMPORARY EROSION AND SEDIMENT CONTROLS (E.G. GEOTEXTILE SILT FENCES).

CONSTRUCTION SCHEDULE

ACTIVITY	MONTHS											
	1	2	3	4	5	6	7	8	9	10	11	12
PREPARE LIMITS OF CONSTRUCTION AND CONSTRUCTION ENTRANCE												
INSTALL TEMPORARY E&S CONTROLS												
ROUGH GRADING OF THE SITE												
INSTALL PERMANENT E&S CONTROL AND DRAINAGE SYSTEMS												
FINISH GRADING OF THE SITE												
INSTALL OF PV SYSTEM												
FINAL STABILIZATION												
EROSION CONTROL MAINTENANCE												



PRELIMINARY
NOT FOR CONSTRUCTION

INTERNAL USE ONLY

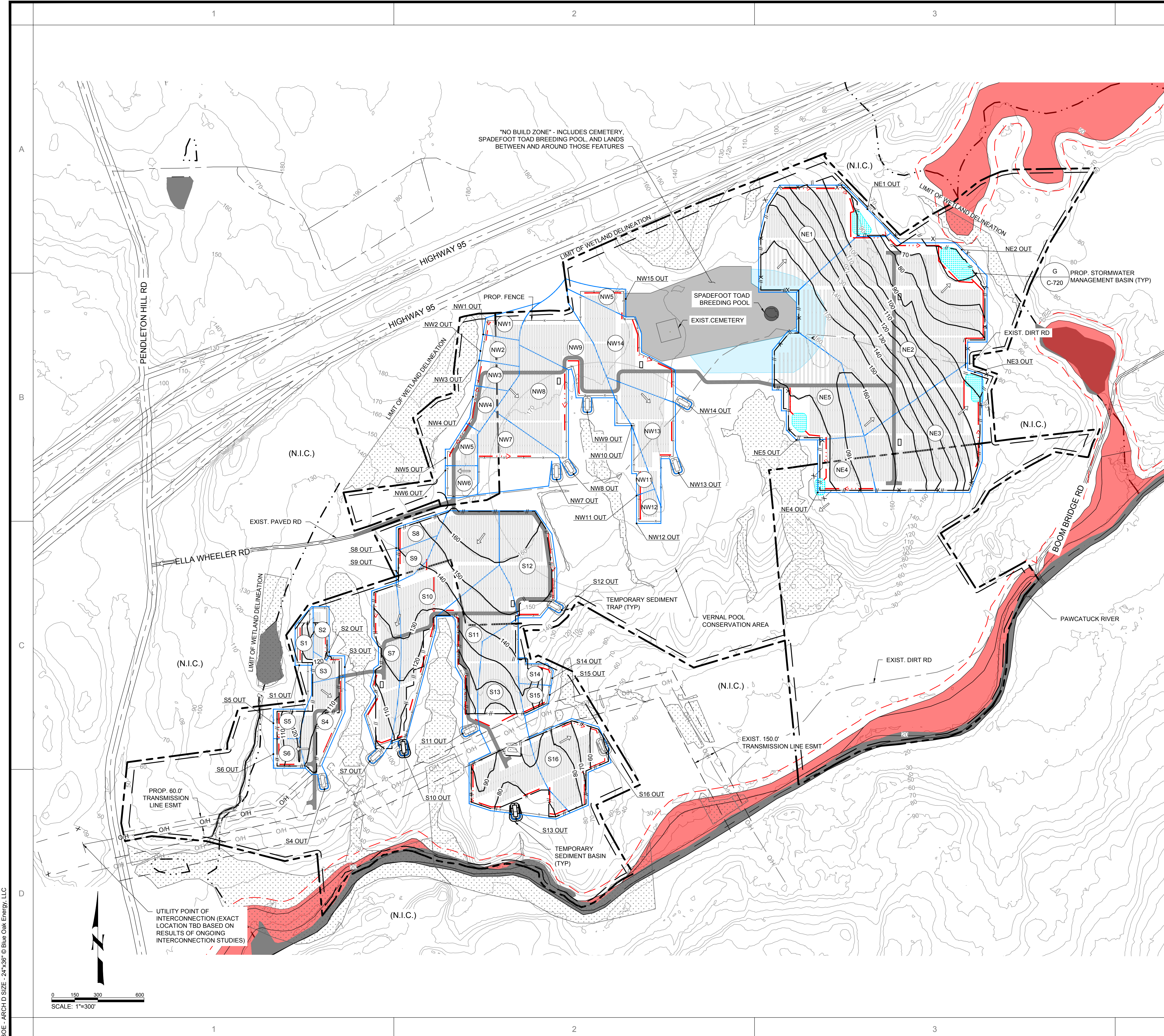
DRAWN: JT, LUK	CHKD: JB	P.L.L: KLB	PROJECT #: COR16.005	FILE NAME: C720.dwg	DATE: 02/28/18	BY: JT
DATE: 02/28/18	DATE: 02/28/18	DATE: 02/28/18	DATE: 02/28/18	DATE: 02/28/18	DATE: 02/28/18	DATE: 02/28/18

PAWCATUCK SOLAR CENTER
ELLA WHEELER ROAD,
NORTH STONINGTON, CT 06359

EROSION AND SEDIMENTATION CONTROL NOTES & DETAILS

DRAWING NO. **C-720**





LEGEND

- PROPERTY LINE
- SETBACK
- STREAM
- WETLAND DELINEATION BY ALL POINTS TECHNOLOGY
- EXIST. MAJOR CONTOUR
- NO BUILD ZONE
- WIDE ARRAY SPACING ZONE
- EXIST. PAVED ROAD
- EXIST. DIRT ROAD CENTERLINE
- 100-YR FLOODPLAIN
- 100-YR FLOODPLAIN SETBACK
- EXIST. TRANSMISSION LINE
- EXIST. TRANSMISSION LINE ESMT
- PROP. SOLAR TRACKER
- PROP. ACCESS ROAD
- PROP. FENCE
- PROP. SWALE
- DIRECTION OF STORM RUNOFF
- PROP. MAJOR CONTOUR
- LIMIT OF GRADING
- WATERSHED AREA BOUNDARY
- OUTFALL LOCATION
- WATERSHED AREA ID

WATERSHED

SITE LOCATION	ID	AREA (AC)	CN	Tc (hr)
NORTHEAST	NE1	8.80	59	3.55
	NE2	24.10	59	3.68
	NE3	10.60	59	3.60
	NE4	2.90	59	3.44
	NE5	6.70	59	9.73
NORTHWEST	NW1	0.99	72	0.00
	NW2	0.98	72	1.52
	NW3	0.98	72	1.36
	NW4	0.98	72	1.44
	NW5	0.98	72	1.52
	NW6	0.98	72	1.52
	NW7	4.55	72	1.44
	NW8	4.99	72	1.40
	NW9	4.99	72	1.52
	NW10	0.23	72	1.52
	NW11	0.69	72	1.52
	NW12	0.70	72	1.44
	NW13	3.57	72	1.44
	NW14	5.00	72	1.32
	NW15	0.97	72	1.40
SOUTH	S1	0.87	59	1.52
	S2	0.76	59	0.00
	S3	0.74	59	2.41
	S4	3.01	59	2.50
	S5	0.82	59	2.64
	S6	0.82	59	2.68
	S7	4.18	59	3.05
	S8	1.00	59	1.87
	S9	1.00	59	1.87
	S10	9.60	59	2.41
	S11	5.00	59	2.41
	S12	4.95	59	2.85
	S13	9.53	59	2.85
	S14	0.71	59	2.41
	S15	0.72	59	2.64
	S16	4.53	59	3.73



PRELIMINARY
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DRAWN:	JT, LUK	CHKD:	JB	P.L.:	MLB	PROJECT #:	COR16-005	FILE NAME:	00062018
DATE:	02/28/18	BY:	JT	PRINTED:	00062018	DESCRIPTION:	PRELIMINARY	DATE:	02/28/18

PROJECT: PAWCATUCK SOLAR CENTER
ELLA WHEELER ROAD, NORTH STONINGTON, CT 06359
DRAWING NO. C-800
DRAWING TITLE: OVERALL WATERSHED PLAN
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