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February 26, 2024

VIA ELECTRONIC MAIL AND HAND DELIVERY

Melanie Bachman
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: PETITION NO. 1601 – TRITEC Americas, LLC notice of election to waive exclusion from Connecticut Siting Council jurisdiction, pursuant to Connecticut General Statutes §16-50k(e), and petition for a declaratory ruling, pursuant to Connecticut General Statutes §4-176 and §16-50k, for the proposed construction, maintenance and operation of a 0.999-megawatt AC solar photovoltaic electric generating facility located at 958 Route 163, Montville, Connecticut, and associated electrical interconnection. **Petitioner Responses to Interrogatories from Council.**

Dear Attorney Bachman:

On behalf of TRITEC Americas, LLC (“Petitioner”), please accept the enclosed responses to the interrogatories provided by the Connecticut Siting Council (“Council”) on February 7, 2024.

Consistent with Council requirements, Petitioner submits an original and fifteen hard copies of all necessary documents.

Please feel free to contact me if you have any questions.

Very truly yours,

Paul R. Michaud

c: Service List dated February 26, 2024

**Petition No. 1601
TRITEC Americas, LLC
958 Route 163, Montville, Connecticut**

**Interrogatories
February 7 2024**

Notice

1. Has TRITEC received any comments since the petition was submitted to the Council? If yes, summarize the comments and state how these comments were addressed.

RESPONSE: No, TRITEC has not received any comments since submitting the Petition to the Council.

2. Referencing Petition p. 4, how would the Project benefit abutting property owners, the Town of Montville and the state?

RESPONSE: The proposed Project would greatly benefit the abutters, the Town of Montville, and the State. First, the Project would produce clean, carbon-free energy for the electric grid, thus reducing the Town's reliance on fossil fuels and helping to decrease greenhouse gas emissions and combat climate change, contributing to a more sustainable future. Second, it would produce long-term (at least 20 years) stable electricity for the electric grid, which can help lower electricity costs for the town and its residents over the long term. Third, the Project would generate additional revenue for the Town through property taxes and other fees - on the land and equipment. Fourth, the Project would reduce air and water pollution associated with fossil fuel power plants, improving local air quality and protecting natural resources. It would also conserve water, as solar panels do not require water for cooling like traditional power plants. Fifth, the Project could serve as an educational tool for local schools to teach the students about renewable energy, sustainability, and environmental conservation. Sixth, the Project would result in substantial grid improvements in the vicinity of the Project Site, thus resulting in electric grid resiliency for local residents. Lastly, the project would allow the Town to help meet Connecticut's law to achieve 100% carbon-free generation by 2040.

Project Development

3. Referencing Petition p. 7, which entity will hold the permit(s)?

RESPONSE: Petitioner will hold the permits.

4. Referring to Petition p. 12, would the total capacity of the facility be supplied to the NRES Program?

RESPONSE: Yes, the total capacity of the facility will be supplied to the NRES Program.

5. Referring to Petition p. 13, what is the approximate capacity of the facility, expressed as a percentage, that would be allotted to the City of Torrington, Meriden Public Schools, and the Town of Windham?

RESPONSE: The approximate Project capacity allocation is as follows: 75% to the City of Torrington; 3% to Meriden Public Schools; and 22% to the Town of Windham.

6. If TRITEC transfers the facility to another entity, would TRITEC provide the Council with a written agreement as to the entity responsible for any outstanding conditions of the Declaratory Ruling and quarterly assessment charges under CGS §16-50v(b)(2) that may be associated with this facility, including contact information for the individual acting on behalf of the transferee?

RESPONSE: Yes, TRITEC would provide the Council with a written agreement.

Proposed Site

7. Submit a map clearly depicting the boundaries of the solar facility site and the boundaries of the host parcel(s). Under Regulations of Connecticut State Agencies (RCSA) §16-50j-2a(29), “Site” means a contiguous parcel of property with specified boundaries, including, but not limited to, the leased area, right-of-way, access and easements on which a facility and associated equipment is located, shall be located or is proposed to be located.

RESPONSE: The Petitioner directs Council staff to the “Overall Site Layout Plan”, Sheet 2.10 in Appendix B of the Petition for a clear depiction of the “Site” which includes the area within the Limits of Disturbance (“LOD”) line shown. This area includes a specified boundary, access to the solar facility and electrical interconnection locations.

8. Referring to pp. 13 and 14, what entity currently manages the apiaries? Would the same entity manage the future agricultural co-use of the parcel? What other agricultural activities are contemplated for the site, if any?

RESPONSE: Necker’s Farm, a family farm based out of Branford, Connecticut, manages the apiaries. Necker’s Farm would manage additional apiaries at the Project, if Petitioner determines that expanding the apiaries is the best agricultural route for the Project Site. Petitioner is also contemplating low-lying, shade-friendly crops and grazing animals.

9. If agricultural co-uses are implemented at the site, who would be responsible for responding to concerns and/or complaints related to these agricultural co-uses? How would contact information be provided for complaints?

RESPONSE: All concerns and/or complaints related to these agricultural co-uses can be directed to Petitioner’s legal counsel, Michaud Law Group, LLC. Petitioner intends to maintain a project website containing pertinent information regarding the Project, including contact information.

10. The Town of Montville Land Use Office submitted comments to the Council on December 28, 2023 regarding an application for a residential lot subdivision of the host parcel and related easement encroachments. The Council provided a copy of the Town’s comments to TRITEC on December 28, 2023. Please respond to the Town’s comments and concerns.

RESPONSE: The residential lot subdivision application was formally withdrawn by the landowner in a letter to the Town of Montville, dated January 16, 2024.

Energy Output

11. Referencing Petition p. 9, what electrical loss assumptions have been factored into the output of the facility?

RESPONSE: The annual losses of 0.5% per year is the median solar panel degradation rate. This degradation rate is industry-standard.

12. Was a shade study conducted? Would shading from adjacent forested areas interfere with energy production at the site?

RESPONSE: No, a shade study was not conducted; however, the adjacent forested areas will not interfere with energy production at the site due to the Project's location and heights of the adjacent trees.

13. If one section of the solar array experiences electrical problems causing the section to shut down, could other sections of the system still operate and transmit power to the grid? By what mechanism are sections electrically isolated from each other?

RESPONSE: The electrical system is isolated by strings of DC circuits that are wired to a Combiner, each DC circuit is protected by Fuses. These fuses will protect other strings within the system and allow the balance of the system to produce. Furthermore the DC strings connect to separate invertors, these invertors are connected to AC breakers. If the invertor fails it will only affect the DC strings attached to that specific invertor.

Proposed Facility and Associated Equipment

14. Referencing Petition p. 8, how many tracker unit motors would be installed? What is the lifespan of the tracker motors?

RESPONSE: There are 39 tracker motors with an expected life span of 30 years.

15. Referencing Petition Exhibit G, p. 2, to what approximate depth would the tracker support posts be driven into the ground?

RESPONSE: Approximate depth will be 9' to 12' of embedment.

16. How are the tracker motors powered?

RESPONSE: Tracker motors are powered by a low voltage auxiliary panel located at the equipment pad.

17. What are the approximate dimensions of the transformer and switchgear that would be installed on the concrete pad adjacent to the proposed access drive?

RESPONSE: Transformer dimensions are approximately 6' wide by 4' deep and the electrical distribution are 10' wide by 3' deep.

18. Referencing Petition Site Plan 2.11, are the invertors mounted on concrete pads or on posts?

RESPONSE: Invertors will be mounted on a post.

Electrical Interconnection

19. Will the interconnection provide energy to a substation? If yes, which one?

RESPONSE: Yes, the interconnection will provide energy to the 1Q Uncasville substation.

20. Referencing Petition Site Plan 2.11, what equipment would be installed on each utility pole? Can the number of poles be reduced by consolidating equipment?

RESPONSE: The equipment on the utility poles is owned and operated by the utility company, this equipment will consist of a manual disconnect switch (GOAB), a recloser and a primary meter. Based on the system design and Utility requirements this is the minimum amount.

21. Referencing Petition Site Plan 2.11, why do the utility poles need to be within 10 feet of each other? Can some or all the utility poles be located farther to the west?

RESPONSE: The Site Layout Plan 2.11 has been modified to provide 40-foot spacing between the (3) Eversource-owned utility poles and 30-foot spacing between the (2) customer-owned poles. The poles are placed along the proposed access drive. Ultimately Eversource will dictate the exact details of the interconnection as it pertains to quantity and spacing of poles, however the proposed alignment is based on recent projects of similar size. Enclosed, please see, "Site Layout Plan 2.11."

22. Referencing Petition Site Plan 2.11, the proposed interconnection route is shown passing through a vegetated area. Describe clearing necessary to install the interconnection line.

RESPONSE: The Site Layout Plan 2.11 has been modified to relocate the interconnection route along the proposed access drive. This relocation will not require additional tree/vegetation clearing. Enclosed, please see, "Site Layout Plan 2.11."

23. Referencing Petition Exhibit G, p. 4, it states Eversource does not pad-mount their equipment. Where was this information obtained?

RESPONSE: Eversource dictates the exact details of the interconnection and equipment. Typically, Eversource does not pad-mount their equipment for solar projects, therefore pole-mount equipment is shown on the Site Plans. It should be noted that underground interconnections are substantially more expensive than above ground and would put the Project's viability at risk.

Public Safety

24. What are industry Best Management Practices for Electric and Magnetic Fields at solar facilities? Would the site design conform to these practices.

RESPONSE: Petitioner is not aware of any Best Management Practices for Electric and Magnetic Fields at solar facilities like the proposed Project. The Council's "Best Management Practices for Electric and Magnetic Fields" addresses, "engineering practices for proposed electric transmission lines with a design capacity of 69kV or more" and the proposed Project will interconnect to a distribution line with a design capacity of 13.2kV.

See Connecticut Siting Council, “Best Management Practices for Electric and Magnetic Fields” (Feb. 20, 2014) 2.

25. Would training be provided for local emergency responders regarding site operation and safety in the event of a fire or other emergency at the site?

RESPONSE: Training can be provided to local emergency responders of the facilities operation.

26. Are there manual facility shut-off switches that can be operated by emergency personnel? If yes, in what location(s)?

RESPONSE: Yes, there are multiple means of isolating and shutting of the power to the facility. First is the manual disconnect switch located on the Utility pole, second will be the automatic means located second utility pole and third will be the main breaker located at the equipment pad.

27. In the event of a brush or electrical fire, how are potential electric hazards that could be encountered by emergency response personnel mitigated? What type of media and/or specialized equipment would be necessary to extinguish a solar panel/electrical component fire?

RESPONSE: In the event of a fire or emergency, the Project will be able to be shut down by emergency responders via a physical disconnect switch that will be appropriately labeled pursuant to the requirements of the National Electric Code. Petitioner is not aware of any specific media and/or specialized equipment that is needed to extinguish a fire within the Project. Generally speaking, electrical fires are allowed to burn themselves out, with water being used only on the surrounding areas to prevent the spread of any fire beyond the affected area.

28. Provide an Emergency Response Plan for the proposed facility.

RESPONSE: Petitioner respectfully requests that the Council make the submission of an Emergency Response Plan a condition in Council’s Final Decision because the final design of the Project depends on several factors, including any potential changes made by the Council or DEEP through their respective permitting processes.

29. Referencing Petition p. 9, does the transformer have a containment system in the event of an insulating mineral oil leak? Can the SCADA system detect an insulating mineral oil leak?

RESPONSE: No, transformer manufactured today use mineral oil. Mineral oil presents no danger to the environment. SCADA cannot sense a leak of fluid.

30. Would the installation of racking posts affect well water quality from construction impacts, such as from vibrations and sedimentation?

RESPONSE: It is not anticipated that vibration from any equipment installation will affect the nearby aquifers or groundwater quality. The project has also been designed such that any overland runoff will be protected from depositing sediment off the site by incorporation of a detailed erosion control plan, included with the site plans.

31. Referencing Petition p. 12, submit the noise study that determined the noise level complies with Department of Energy and Environmental Protection (DEEP) Noise Standards at the nearest property line. Was operation of the tracker motors considered in the noise analysis?

RESPONSE: A noise study was not prepared for the Project. The noise calculations were prepared using the Inverse Square Law. The tracker motors were not considered in the noise analysis because their noise levels are minimal and would have negligible impacts on the calculations.

Environmental Effects and Mitigation Measures

32. Referencing Petition Site Plan 3.01- Fence Detail, can the bottom of the perimeter fence fabric be raised to a height of six-inches above grade to allow for small wildlife movement?

RESPONSE: The proposed fence detail has been modified accordingly. Please see “Details Sheet 3.01.”

33. Referencing Petition p. 14, has the Phase IA Cultural Resources Assessment Survey been submitted to the State Historic Preservation Office? If yes, provide a copy of their response, if available.

RESPONSE: The SHPO response letter is included herein. They have determined that no historic properties will be affected by the proposal solar project and no additional archaeological investigations are warranted.

34. Has TRITEC submitted an application for a General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities to DEEP? If yes, what is the status of such permit?

RESPONSE: As the CT DEEP Stormwater General Permit application is intended to include “construction ready” site plans, the Petitioner has not yet submitted this application. The Petitioner intends to apply for this permit in the near future and will submit proof of approval to the Council as a pre-condition to beginning construction of the Project.

35. Referencing Petition Exhibit H, identify the property with a visible structure in Photo 20 Northeast.

RESPONSE: The property with a visible structure in Photo 20 Northeast is 974 Route 163 (Oakdale Road).

Facility Construction

36. Will blasting be required to construct the site? If not, how will bedrock be removed if encountered?

RESPONSE: No, Blasting is not required. If bedrock is encountered the racking posts will be installed with a rock drill to get to the burial depths required. No other major earth work.

37. Referencing Petition Exhibit G, p. 11, where will the 5,700 cubic yards of material be disposed of? What would this material be composed of? What is the total estimate of cut and fill?

RESPONSE: Any excess material will be placed throughout the Site, where appropriate to maintain positive drainage patterns, with the remainder to be removed from the Site. Based on the findings in Petition Exhibit D, the material will most likely be comprised of fill and

glacial till. The fill is comprised of brown, fine to coarse sand with little silt, trace gravel and boulders. The glacial till generally consists of grey, fine to coarse sand with trace to little silt, trace to little gravel, trace to little cobbles, and occasionally trace boulders. The total estimate of cut and fill is 6,600 CY of cut and 900 CY of fill.

38. Petition Site Plan 2.31 shows the stormwater detention basin as being constructed as part of Phase 1; however, the Site Plan 2.32- Phase 2 narrative describes the basin as being constructed after the installation of the solar panels. Clarify.

RESPONSE: The Soil Erosion & Sediment Control Plan Sheet 2.31 has been modified to remove the installation of the stormwater detention basin during Phase 1. Sections of silt fence with wings are provided along the LOD to prevent sediment from leaving the site. This measure is typically utilized for drainage areas of less than 1-acre per the 2024 Connecticut Guidelines for Soil Erosion & Sediment Control. The stormwater detention basin is proposed to be installed during Phase 2 of construction. Enclosed, please see, "Soil Erosion & Sediment Control Plan Phase I 2.31."

39. Referencing Petition Exhibit B, p. 6 describes a temporary sediment trap. In what location is the trap? If the trap is in the location of the permanent stormwater basin, provide procedures on the Site Plan for construction, cleaning and conversion of the trap into the stormwater basin.

RESPONSE: The temporary sediment trap referenced in Petition Exhibit B is not required as silt fence with wings will be adequate to satisfy the requirements of the 2024 Connecticut Guidelines for Soil Erosion & Sediment Control.

40. Referencing Petition Site Plan 2.21, provide more information of the function of the "yard drain" and how stormwater will be directed to the drain.

RESPONSE: All efforts were made to minimize the amount of grading necessary within the Project area, however due to the location of the access drive there is some runoff that will be directed towards it. The intent of the "yard drain" is to capture some of the runoff that cannot be directed into the stormwater detention basin due to the site grading.

41. How will stormwater be controlled along the access drive and at the entrance point on Route 163? Will a Department of Transportation permit be required for the new entrance and for the discharge of stormwater onto Route 163?

RESPONSE: There are no proposed stormwater controls along the access drive and at the entrance point on Route 163. An Encroachment Permit from the Connecticut Department of Transportation will be required for the new entrance and for the discharge of stormwater onto Route 163. The Petitioner has had preliminary conversations with the DOT regarding this access drive and will incorporate any required drainage improvements into the plans in the event they are requested.

42. Referencing Petition Site Plan 2.21, why was the access drive proposed in an area that requires extensive grading? Discuss the feasibility of relocating the access drive to the north of the interconnection point, in the area with moderate grades.

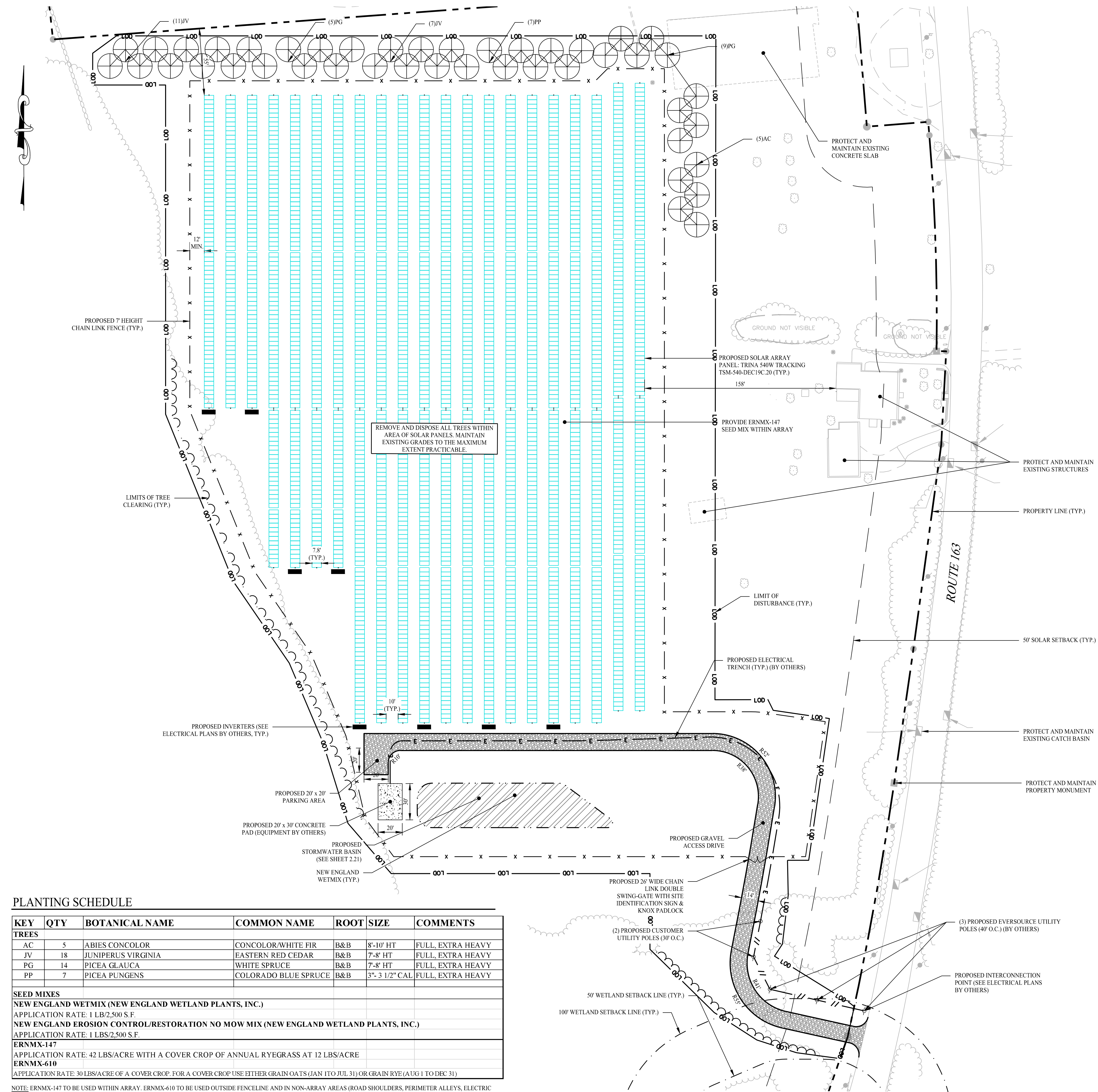
RESPONSE: This area is the only available access drive route due to the agreed upon leasehold area between Petitioner and the landowner. Petitioner has had preliminary conversations with the DOT regarding this access drive.

Facility Maintenance/Decommissioning

43. Revise the Petition Operations and Maintenance Plan (Exhibit C) to include procedures for pesticide/herbicide use, panel washing, and inspection and replacement of landscaping if die off occurs.

RESPONSE: The Operations and Maintenance Plan has been updated accordingly. Please see enclosed, "Exhibit C: Revised Operations and Maintenance Plan."

Feb 26, 2024 - 3:25pm Anthony
 MA/SE Firm/Project Data/2023/2109401 - 958 Route 163 - Montville, CT/Cadd Data/2109401-2.11.dwg



LEGEND

- PROPERTY LINE
- SOLAR SETBACK LINE
- WETLAND UPLAND REVIEW AREA - 100 FT BUFFER
- STORMWATER BASIN AREA
- 7' TALL CHAIN LINK FENCE
- OVERHEAD ELECTRIC LINE (BY OTHERS)
- ELECTRIC CONDUIT (BY OTHERS)
- TRINA 540W SOLAR MODULES
- EVERGREEN TREE
- NEW ENGLAND WETMIX
- GRAVEL ROAD
- LIMITS OF TREE CLEARING
- CONCRETE PAD

SITE PLAN NOTES

1. THESE PLANS ARE FOR PERMITTING PURPOSES ONLY AND ARE NOT FOR CONSTRUCTION. NO CONSTRUCTION OR DEMOLITION SHALL BEGIN UNTIL APPROVAL OF THE FINAL PLANS IS GRANTED BY ALL GOVERNING AND REGULATORY AGENCIES. EXISTING BOUNDARY, TOPOGRAPHY AND SITE CONDITIONS INFORMATION TAKEN FROM A PLAN ENTITLED "PROPERTY & TOPOGRAPHIC SURVEY OF 958 OAKDALE ROAD, MONTVILLE, CONNECTICUT", SCALE 1"=60', DATED: 03/2023, BY "DGT ASSOCIATES."
2. ALL CONSTRUCTION SHALL COMPLY WITH TOWN OF MONTVILLE STANDARDS, CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARDS, CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION STANDARDS, AND SPECIFICATIONS IN THE ABOVE REFERENCED INCREASING HIERARCHY. IF SPECIFICATIONS ARE IN CONFLICT, THE MORE STRINGENT SPECIFICATION SHALL APPLY. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE OSHA, FEDERAL, STATE AND LOCAL REGULATIONS.
3. THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY ZONING PERMITS REQUIRED BY GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL COUNTY AND TOWN CONSTRUCTION PERMITS. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
4. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE ENGINEER OF RECORD IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS SO THAT APPROPRIATE REVISIONS CAN BE MADE PRIOR TO BIDDING. ANY CONFLICT BETWEEN THE DRAWINGS SHALL BE CONFIRMED WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO BIDDING.
5. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED, EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE ENGINEER OF RECORD IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.
6. DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER AND THE LOCAL MUNICIPALITIES. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED.
7. THE CONTRACTOR SHALL RESTORE ANY DRAINAGE STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS OR SIGNAGE DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AS APPROVED BY THE ENGINEER OF RECORD.
8. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR SITE SAFETY MEASURES TO BE EMPLOYED DURING CONSTRUCTION. THE ENGINEER OF RECORD HAS NO CONTRACTUAL DUTY TO CONTROL THE SAFEST METHODS OR MEANS OF THE WORK, JOB SITE RESPONSIBILITIES, SUPERVISION OR TO SUPERVISE SAFETY AND DOES NOT VOLUNTARILY ASSUME ANY SUCH DUTY OR RESPONSIBILITY.
9. THE CONTRACTOR SHALL COMPLY WITH CFR 29 PART 1926 FOR EXCAVATION TRENCHING AND TRENCH PROTECTION REQUIREMENTS.
10. ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED BY THE ENGINEER OF RECORD, AND APPROPRIATE REGULATORY AGENCY PRIOR TO INSTALLATION DURING THE BIDDING PROCESS.
11. INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE SYSTEMS HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY PROVIDER AND MUNICIPAL RECORD MAPS AND/OR FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES AND STORM DRAINAGE SYSTEMS ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STORM DRAINAGE SYSTEMS INCLUDING SERVICES. PRIOR TO DEMOLITION OR CONSTRUCTION, THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" 72 HOURS BEFORE COMMENCEMENT OF WORK AT (800) 922-4455 AND VERIFY ALL UTILITY AND STORM DRAINAGE SYSTEM LOCATIONS.

SOLAR ARRAY SYSTEM INFORMATION

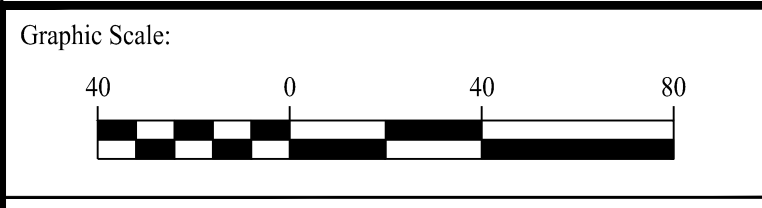
	TOTAL
SIZE DC	1,399 MW
SIZE AC	0,999 MW
INVERTER LOAD RATIO	1.40
MODULE TYPE	TRACKING TRINASOLAR TSM-540-DEG19C.20 (540W)
MODULE QUANTITY	2,590
INVERTER	SUNGROW SGI25HV 125KW
INVERTER QUANTITY	8
UTILITY	EVERSOURCE

PLANTING SCHEDULE

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT SIZE	SIZE	COMMENTS
TREES						
AC	5	ABIES CONCOLOR	CONCOLOR/WHITE FIR	B&B	8'-10' HT	FULL, EXTRA HEAVY
JV	18	JUNIPERUS VIRGINIA	EASTERN RED CEDAR	B&B	7'-8' HT	FULL, EXTRA HEAVY
PG	14	PICEA GLAUCA	WHITE SPRUCE	B&B	7'-8' HT	FULL, EXTRA HEAVY
PP	7	PICEA PUNGENS	COLORADO BLUE SPRUCE	B&B	3"-3 1/2" CAL	FULL, EXTRA HEAVY
SEED MIXES						
NEW ENGLAND WETMIX (NEW ENGLAND WETLAND PLANTS, INC.)						
APPLICATION RATE: 1 LB/2,500 S.F.						
NEW ENGLAND EROSION CONTROL/RESTORATION NO MOW MIX (NEW ENGLAND WETLAND PLANTS, INC.)						
APPLICATION RATE: 1 LBS/2,500 S.F.						
ERNMX-147						
APPLICATION RATE: 42 LBS/ACRE WITH A COVER CROP OF ANNUAL RYEGRASS AT 12 LBS/ACRE						
ERNMX-610						
APPLICATION RATE: 30 LBS/ACRE OF A COVER CROP. FOR A COVER CROP USE EITHER GRAIN OATS (JAN 1 TO JUL 31) OR GRAIN RYE (AUG 1 TO DEC 31)						

NOTE: ERNMX-147 TO BE USED WITHIN ARRAY. ERNMX-610 TO BE USED OUTSIDE FENCELINE AND IN NON-ARRAY AREAS (ROAD SHOULDERS, PERIMETER ALLEYS, ELECTRIC TRENCHES, ETC.)

Rev. #:	Date	Description
1	02/28/24	Revised Per CSC Interrogatories

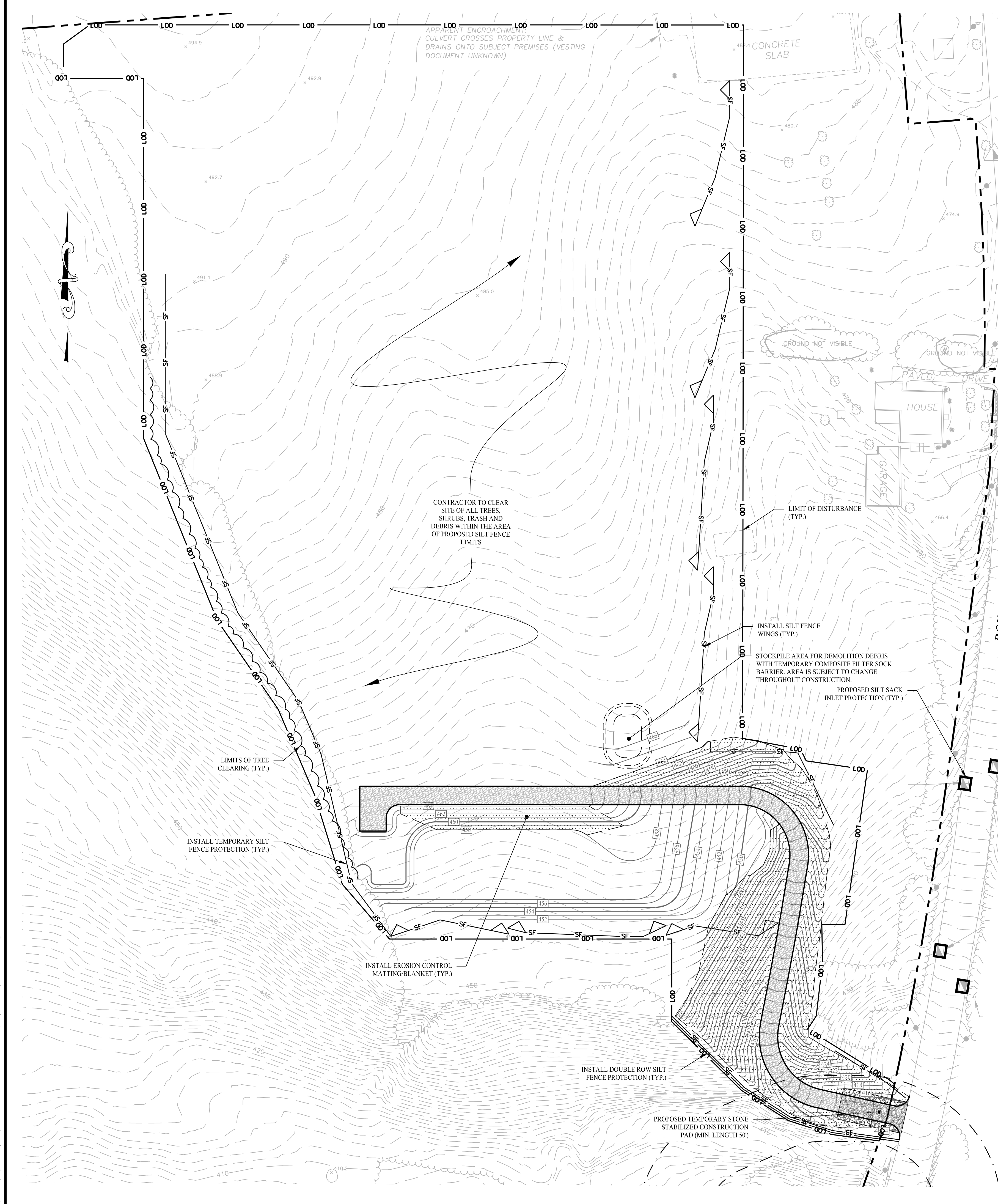


SOLLI ENGINEERING
 501 Main Street, Montville, CT 06468 T: (203) 880-5455 F: (203) 880-9695
 11 Vanderbilt Ave, Norwood, MA 02062 T: (781) 352-8491 F: (203) 880-9695

Drawn By: AWC
 Checked By: RPP
 Approved By: KMS
 Project #: 22109401
 Plan Date: 09/30/23
 Scale: 1" = 40'

PROPOSED SOLAR PHOTOVOLTAIC ARRAY
 958 CT ROUTE 163
 MONTVILLE, CONNECTICUT

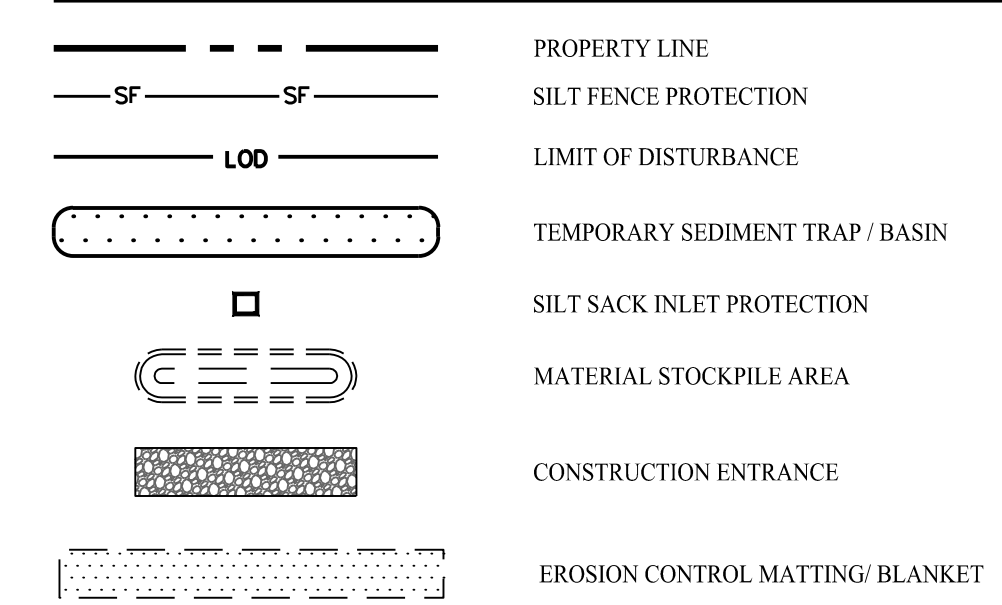
Sheet Title: **SITE LAYOUT PLAN** Sheet #: **2.11**



SEDIMENT & EROSION CONTROL NOTES

- THE CONTRACTOR SHALL CONSTRUCT ALL SEDIMENT AND EROSION CONTROLS IN ACCORDANCE WITH THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, LATEST EDITION, IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, AND AS DIRECTED BY THE TOWN OF MONTVILLE, PERMITTEE, AND/OR SWPCP MONITOR. ALL PERIMETER SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CLEARING AND GRUBBING AND DEMOLITION OPERATIONS.
- THESE DRAWINGS ARE ONLY INTENDED TO DESCRIBE THE SEDIMENT AND EROSION CONTROL MEASURES FOR THIS SITE. SEE CONSTRUCTION SEQUENCE FOR ADDITIONAL INFORMATION. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE EROSION & SEDIMENT CONTROL PLAN ARE SHOWN AS REQUIRED BY THE ENGINEER OF RECORD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL EROSION CONTROL MEASURES ARE CONFIGURED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION OF SOILS AND PREVENT THE TRANSPORT OF SEDIMENTS AND OTHER POLLUTANTS TO STORM DRAINAGE SYSTEMS AND/OR WATERCOURSES. ACTUAL SITE CONDITIONS OR SEASONAL AND CLIMATIC CONDITIONS MAY WARRANT ADDITIONAL CONTROLS OR CONFIGURATIONS, AS REQUIRED, AND AS DIRECTED BY THE PERMITTEE AND/OR SWPCP MONITOR. REFER TO SITE PLAN FOR GENERAL INFORMATION AND OTHER CONTRACT PLANS FOR APPROPRIATE INFORMATION.
- A BOND OR LETTER OF CREDIT MAY BE REQUIRED TO BE POSTED WITH THE GOVERNING AUTHORITY FOR THE EROSION CONTROL INSTALLATION AND MAINTENANCE.
- THE CONTRACTOR SHALL APPLY THE MINIMUM EROSION & SEDIMENT CONTROL MEASURES SHOWN ON THE PLAN IN CONJUNCTION WITH CONSTRUCTION SEQUENCING, SUCH THAT ALL ACTIVE WORK ZONES ARE PROTECTED. ADDITIONAL AND/OR ALTERNATIVE SEDIMENT AND EROSION CONTROL MEASURES MAY BE INSTALLED DURING THE CONSTRUCTION PERIOD IF FOUND NECESSARY BY THE CONTRACTOR, OWNER, ENGINEER OF RECORD, MUNICIPAL OFFICIALS, OR ANY GOVERNING AGENCY. THE CONTRACTOR SHALL CONTACT THE OWNER AND APPROPRIATE GOVERNING AGENCIES FOR APPROVAL IF ALTERNATIVE CONTROLS OTHER THAN THOSE SHOWN ON THE PLANS ARE PROPOSED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL TAKE EXTREME CARE DURING CONSTRUCTION SO AS NOT TO DISTURB UNPROTECTED WETLAND AREAS OR INSTALLED SEDIMENTATION AND EROSION CONTROL MEASURES. THE CONTRACTOR SHALL INSPECT ALL SEDIMENT AND EROSION CONTROLS WEEKLY AND WITHIN 24 HOURS OF A STORM WITH A RAINFALL AMOUNT OF 0.25 INCHES OR GREATER TO VERIFY THAT THE CONTROLS ARE OPERATING PROPERLY AND MAKE REPAIRS AS NECESSARY IN A TIMELY MANNER.
- THE CONTRACTOR SHALL KEEP A SUPPLY OF EROSION CONTROL MATERIAL (SILT FENCE, COMPOSITE FILTER SOCK, EROSION CONTROL BLANKET, ETC.) ON-SITE FOR PERIODIC MAINTENANCE AND EMERGENCY REPAIRS.
- ALL FILL MATERIAL PLACED ADJACENT TO ANY WETLAND AREA SHALL BE GOOD QUALITY, WITH LESS THAN 5% FINES PASSING THROUGH A #200 SIEVE (BANK RUN), SHALL BE PLACED IN MAXIMUM ONE FOOT LIFTS, AND SHALL BE COMPACTED TO 95% MAX. DRY DENSITY MODIFIED PROCTOR OR AS SPECIFIED IN THE CONTRACT SPECIFICATIONS.
- PROTECT EXISTING TREES THAT ARE TO BE SAVED BY FENCING, ORANGE SAFETY FENCE, CONSTRUCTION TAPE, OR EQUIVALENT FENCING/TAPE. ANY LIMB TRIMMING SHOULD BE DONE AFTER CONSULTATION WITH AN ARBORIST AND BEFORE CONSTRUCTION BEGINS IN THAT AREA. FENCING SHALL BE MAINTAINED AND REPAIRED DURING CONSTRUCTION.
- CONSTRUCTION ENTRANCES (ANTI-TRACKING PADS) SHALL BE INSTALLED PRIOR TO ANY SITE EXCAVATION OR CONSTRUCTION ACTIVITY AND SHALL BE MAINTAINED THROUGHOUT THE DURATION OF ALL CONSTRUCTION IF REQUIRED. THE LOCATION OF THE TRACKING PADS MAY CHANGE AS VARIOUS PHASES OF CONSTRUCTION ARE COMPLETED. CONTRACTOR SHALL ENSURE THAT ALL VEHICLES EXITING THE SITE ARE PASSING OVER THE ANTI-TRACKING PADS PRIOR TO EXITING.
- ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE LIMIT OF DISTURBANCE, WHICH SHALL BE MARKED WITH SILT FENCE, SAFETY FENCE, HAY BALES, RIBBONS, OR OTHER MEANS PRIOR TO CLEARING. CONSTRUCTION ACTIVITY SHALL REMAIN ON THE UPHILL SIDE OF THE SEDIMENT BARRIER UNLESS WORK IS SPECIFICALLY CALLED FOR ON THE DOWNHILL SIDE OF THE BARRIER.
- NO CUT OR FILL SLOPES SHALL EXCEED 2:1 EXCEPT WHERE STABILIZED BY ROCK FACED EMBANKMENTS OR EROSION CONTROL BLANKETS. ALL SLOPES SHALL BE SEEDED AND BANKS WILL BE STABILIZED IMMEDIATELY UPON COMPLETION OF FINAL GRADING UNTIL TURF IS ESTABLISHED.
- DIRECT ANY DEWATERING PUMP DISCHARGE TO A SEDIMENT CONTROL DEVICE CONFORMING TO THE GUIDELINES WITHIN THE APPROVED LIMIT OF DISTURBANCE IF REQUIRED. DISCHARGE TO STORM DRAINS OR SURFACE WATERS FROM SEDIMENT CONTROLS SHALL BE CLEAR AND APPROVED BY THE PERMITTEE OR MUNICIPALITY.
- THE CONTRACTOR SHALL MAINTAIN A CLEAN CONSTRUCTION SITE AND SHALL NOT ALLOW THE ACCUMULATION OF RUBBISH OR CONSTRUCTION DEBRIS ON THE SITE. PROPER SANITARY DEVICES SHALL BE MAINTAINED ON-SITE AT ALL TIMES AND SECURED APPROPRIATELY. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID THE SPILLAGE OF FUEL OR OTHER POLLUTANTS ON THE CONSTRUCTION SITE AND SHALL ADHERE TO ALL APPLICABLE POLICIES AND REGULATIONS RELATED TO SPILL PREVENTION AND RESPONSE/CONTAINMENT.
- MINIMIZE LAND DISTURBANCES. SEED AND MULCH DISTURBED AREAS WITH TEMPORARY MIX AS SOON AS PRACTICABLE (2 WEEK MAXIMUM UNSTABILIZED PERIOD) USING PERENNIAL RYEGRASS AT 40 LBS PER ACRE. MULCH ALL CUT AND FILL SLOPES AND SWALES WITH LOOSE HAY AT A RATE OF 2 TONS PER ACRE. IF NECESSARY, REPLACE LOOSE HAY ON SLOPES WITH EROSION CONTROL BLANKETS OR JUTE CLOTH. MODERATELY GRADED AREAS, ISLANDS, AND TEMPORARY CONSTRUCTION STAGING AREAS MAY BE HYDROSEEDING WITH TACKIFIER.
- SWEEP AFFECTED PORTIONS OF OFF SITE ROADS ONE OR MORE TIMES A DAY (OR LESS FREQUENTLY IF TRACKING IS NOT A PROBLEM) DURING CONSTRUCTION. FOR DUST CONTROL, PERIODICALLY MOISTEN EXPOSED SOIL SURFACES WITH WATER ON UNPAVED TRAVELWAYS TO KEEP THE TRAVELWAYS DAMP. CALCIUM CHLORIDE MAY ALSO BE APPLIED TO ACCESS ROADS. DUMP TRUCK LOADS EXITING THE SITE SHALL BE COVERED.
- VEGETATIVE ESTABLISHMENT SHALL OCCUR ON ALL DISTURBED SOIL, UNLESS THE AREA IS UNDER ACTIVE CONSTRUCTION. IT IS COVERED IN STONE OR SCHEDULED FOR PAVING WITHIN 30 DAYS. TEMPORARY SEEDING OR NON-LIVING SOIL PROTECTION OF ALL EXPOSED SOILS AND SLOPES SHALL BE INITIATED WITHIN THE FIRST 7 DAYS OF SUSPENDING WORK IN AREAS TO BE LEFT LONGER THAN 30 DAYS.
- MAINTAIN ALL PERMANENT AND TEMPORARY SEDIMENT CONTROL DEVICES IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. UPON COMPLETION OF WORK SWEEP CONCRETE PADS, CLEAN THE STORMWATER MANAGEMENT SYSTEMS AND REMOVE ALL TEMPORARY SEDIMENT CONTROLS ONCE THE SITE IS FULLY STABILIZED AND APPROVAL HAS BEEN RECEIVED FROM PERMITTEE OR THE MUNICIPALITY.
- SEEDING MIXTURES SHALL BE FUZZ & BUZZ MIX - PREMIUM - ERNMX-147, OR APPROVED EQUAL. NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR STORMWATER BASINS & MOIST SITES, OR APPROVED EQUAL, SHALL BE UTILIZED ON THE BOTTOM OF THE BASIN & FUZZ & BUZZ MIX - PREMIUM - ERNMX-147, OR APPROVED EQUAL, ON THE SIDE SLOPES OF THE BASIN. SEE SHEET DN-2 FOR ALL SEED MIXTURES.
- REFER TO SHEET 2.41 FOR SEDIMENT & EROSION CONTROL NARRATIVE & DETAILS.

LEGEND



CONSTRUCTION SEQUENCE (PHASE I)

SEQUENCE THE FOLLOWING SUGGESTED SEQUENCE OF CONSTRUCTION ACTIVITIES IS PROJECTED BASED UPON ENGINEERING JUDGEMENT AND BEST MANAGEMENT PRACTICES. THE CONTRACTOR MAY ELECT TO ALTER THE SEQUENCING TO BEST MEET THE CONSTRUCTION SCHEDULE, THE EXISTING SITE ACTIVITIES AND WEATHER CONDITIONS. SHOULD THE CONTRACTOR ALTER THE CONSTRUCTION SEQUENCE OR ANY EROSION AND SEDIMENTATION CONTROL MEASURES THEY SHALL MODIFY THE STORMWATER POLLUTION CONTROL PLAN ("SWPCP") AS REQUIRED BY THE GENERAL PERMIT. MAJOR CHANGES IN SEQUENCING AND/OR METHODS MAY REQUIRE REGULATORY APPROVAL PRIOR TO IMPLEMENTATION.

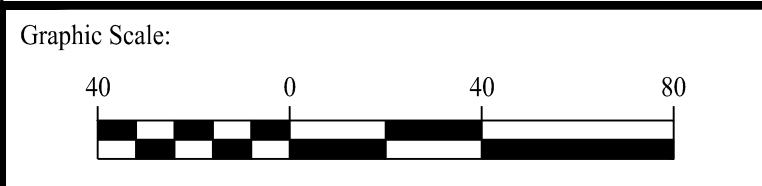
PHASE I:

- THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING. PHYSICALLY FLAG THE LIMITS OF DISTURBANCE IN THE FIELD AS NECESSARY TO FACILITATE THE PRE-CONSTRUCTION MEETING.
- CONDUCT A PRE-CONSTRUCTION MEETING TO DISCUSS THE PROPOSED WORK AND EROSION AND SEDIMENTATION CONTROL MEASURES. THE MEETING SHOULD BE ATTENDED BY THE OWNER, THE OWNER'S REPRESENTATIVE(S), THE GENERAL CONTRACTOR, DESIGNATED SUB-CONTRACTORS AND THE PERSON, OR PERSONS, RESPONSIBLE FOR THE IMPLEMENTATION, OPERATION, MONITORING AND MAINTENANCE OF THE EROSION AND SEDIMENTATION MEASURES. THE CONSTRUCTION PROCEDURES FOR THE ENTIRE PROJECT SHALL BE REVIEWED AT THIS MEETING.
- NOTIFY CALL BEFORE YOU DIG AT 811 AS REQUIRED, PRIOR TO THE START OF CONSTRUCTION.
- REMOVE EXISTING IMPEDIMENTS AS NECESSARY AND PROVIDE MINIMAL DISTURBANCE TO INSTALL THE REQUIRED CONSTRUCTION ENTRANCE.
- INSTALL PERIMETER EROSION CONTROL.
- INSTALL ACCESS DRIVE.
- INSTALL ELECTRICAL CONDUIT, RACKING POSTS FOR GROUND MOUNTED SOLAR PANELS & GROUND MOUNTED SOLAR PANELS AND COMPLETE ELECTRICAL INSTALLATION.
- TEMPORARILY SEED DISTURBED AREAS NOT UNDER CONSTRUCTION FOR THIRTY (30) DAYS OR MORE.

CONSTRUCTION OPERATION & MAINTENANCE PLAN

EAS MEASURE	INSPECTION SCHEDULE	MAINTENANCE REQUIRED
CONSTRUCTION ENTRANCE	DAILY	PLACE ADDITIONAL STONE. EXTEND THE LENGTH OR REMOVE AND REPLACE THE STONE. CLEAN PAVED SURFACES OF TRACKED SEDIMENT.
COMPOST FILTER SOCK	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.25"	REPAIR/REPLACE WHEN FAILURE OR DETERIORATION IS OBSERVED.
SILT FENCE	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.25"	REPAIR/REPLACE WHEN FAILURE OR DETERIORATION IS OBSERVED. REMOVE SILT WHEN IT REACHES 1/2 THE HEIGHT OF THE FENCE.
TOPSOIL BORROW STOCKPILES	DAILY	REPAIR/REPLACE SEDIMENT BARRIERS AS NECESSARY.
TEMPORARY SOIL PROTECTION	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.25"	REPAIR ERODED OR BARE AREAS IMMEDIATELY. RESEED AND MULCH.

Rev. #:	Date	Description
1	02/28/24	Revised Per CSC Interrogatories



SOLLI ENGINEERING
 501 Main Street, Monroe, CT 06468 T: (203) 880-5455 F: (203) 880-9695
 11 Vanderbilt Ave, Norwood, MA 02062 T: (781) 352-8491 F: (203) 880-9695

Drawn By: CMH
 Checked By: RPP
 Approved By: KMS
 Project #: 22109401
 Plan Date: 09/30/23
 Scale: 1" = 40'

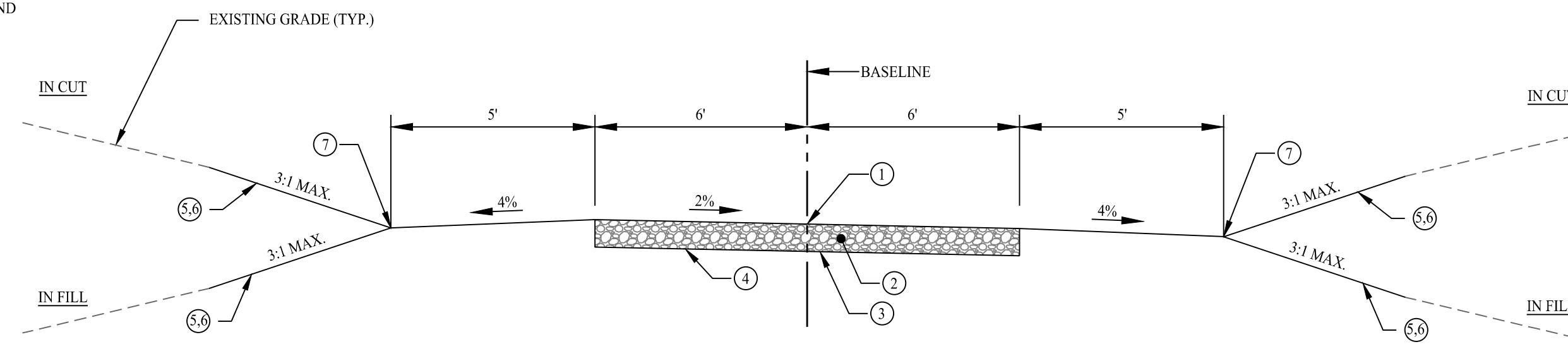
PROPOSED SOLAR PHOTOVOLTAIC ARRAY
 958 CT ROUTE 163
 MONTVILLE, CONNECTICUT

Sheet Title: SOIL EROSION & SEDIMENT CONTROL PLAN PHASE I
 Sheet #: 2.31

Feb 26, 2024 - 12:35pm Anthony
 W:\SE Firm\Project Data\2023\22109401 - 958 Route 163 - Montville, CT\Cadd Data\22109401-2.31.dwg

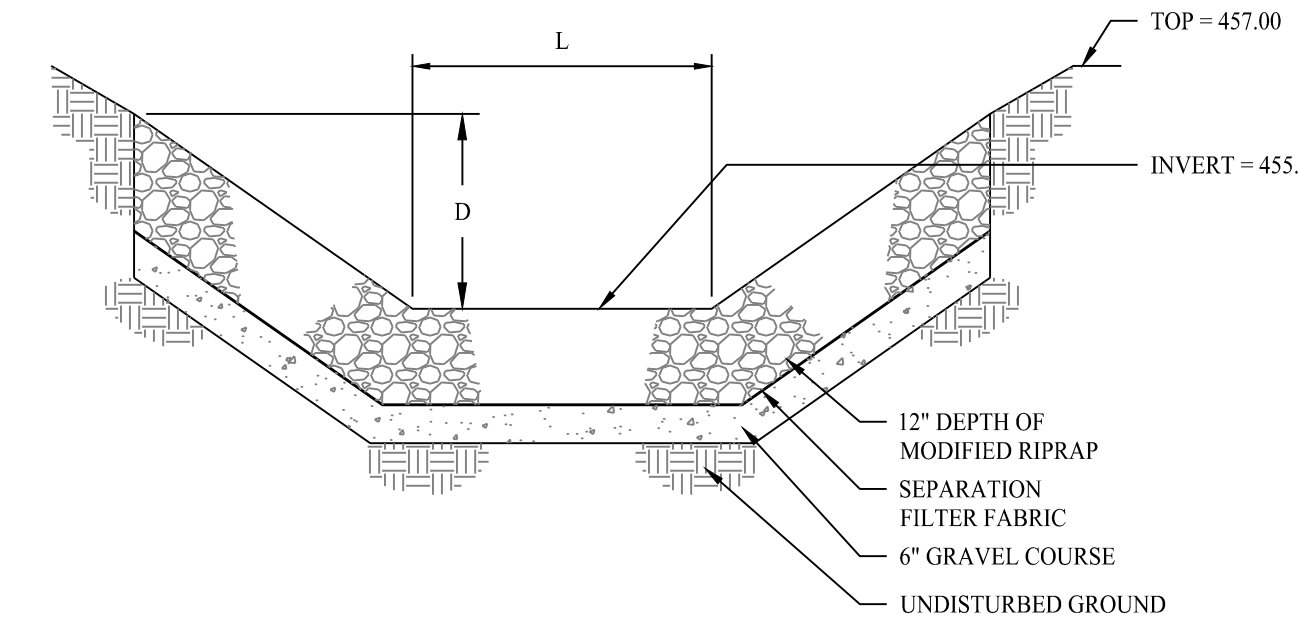
- 1 POINT OF APPLICATION OF GRADE OR MATCH EXISTING GROUND
- 2 8" LAYER CRUSHER RUN GRAVEL
- 3 NONWOVEN GEOTEXTILE (MIRAFI 140N OR EQUAL)
- 4 LIMIT OF EXCAVATION OR LIMIT OF COMPACTION
- 5 EROSION CONTROL BLANKET ON SLOPES 3:1 OR GREATER
- 6 6" TOPSOIL AND SEED
- 7 VEGETATED CHANNEL

NOTES:
 1. THE CONTRACTOR SHALL CONTACT CT CALL BEFORE YOU DIG (CBYD) A MINIMUM OF 72 HOURS PRIOR TO BEGINNING CONSTRUCTION.
 2. TRANSITIONS BETWEEN TYPICAL ACCESS ROAD SECTIONS SHALL OCCUR OVER 50 FEET. (TYPICAL)



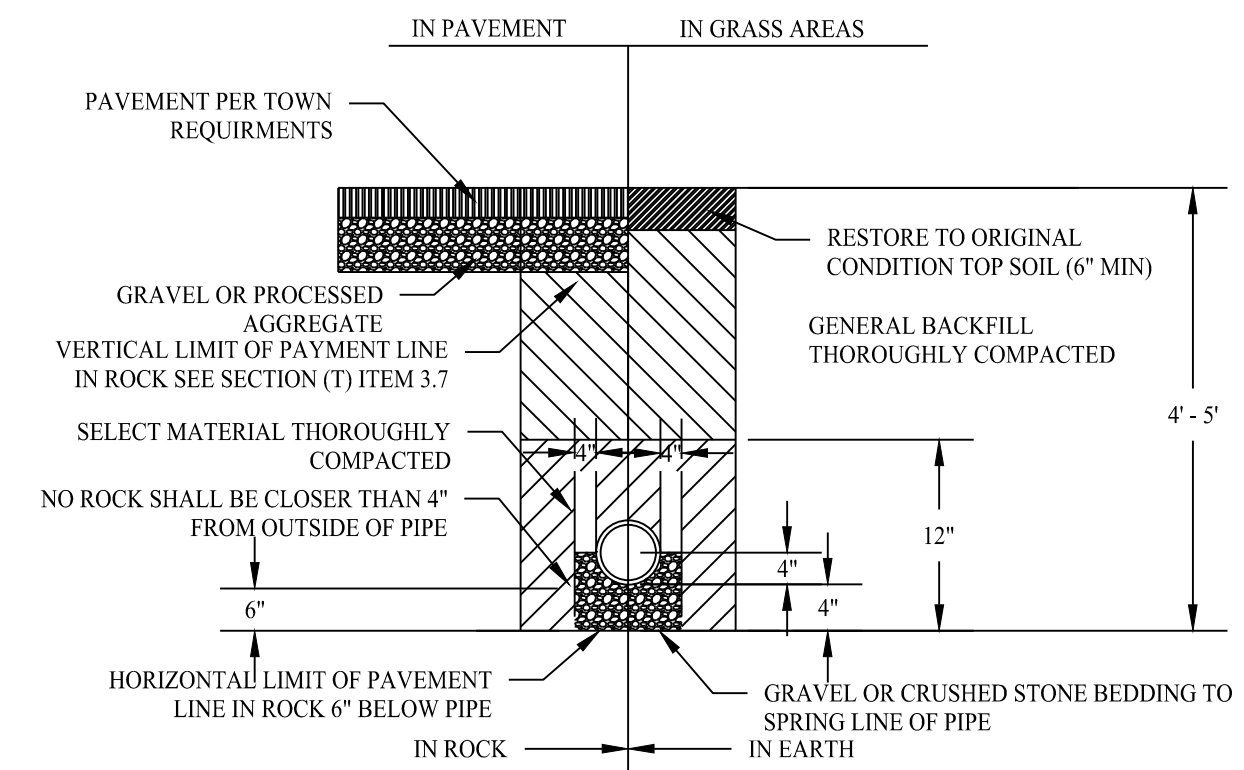
TYPICAL GRAVEL ROADWAY SECTION

SCALE: NTS



WEIR OUTLET

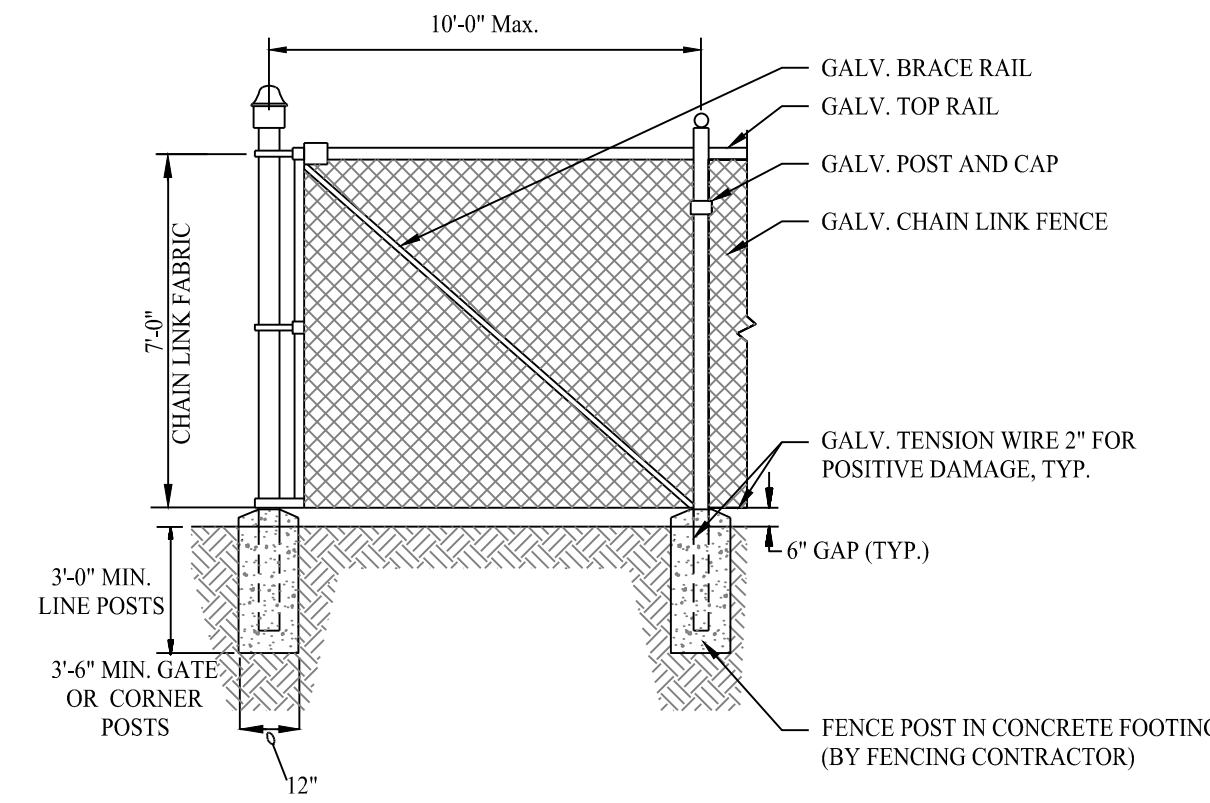
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STORM TRENCH DETAIL

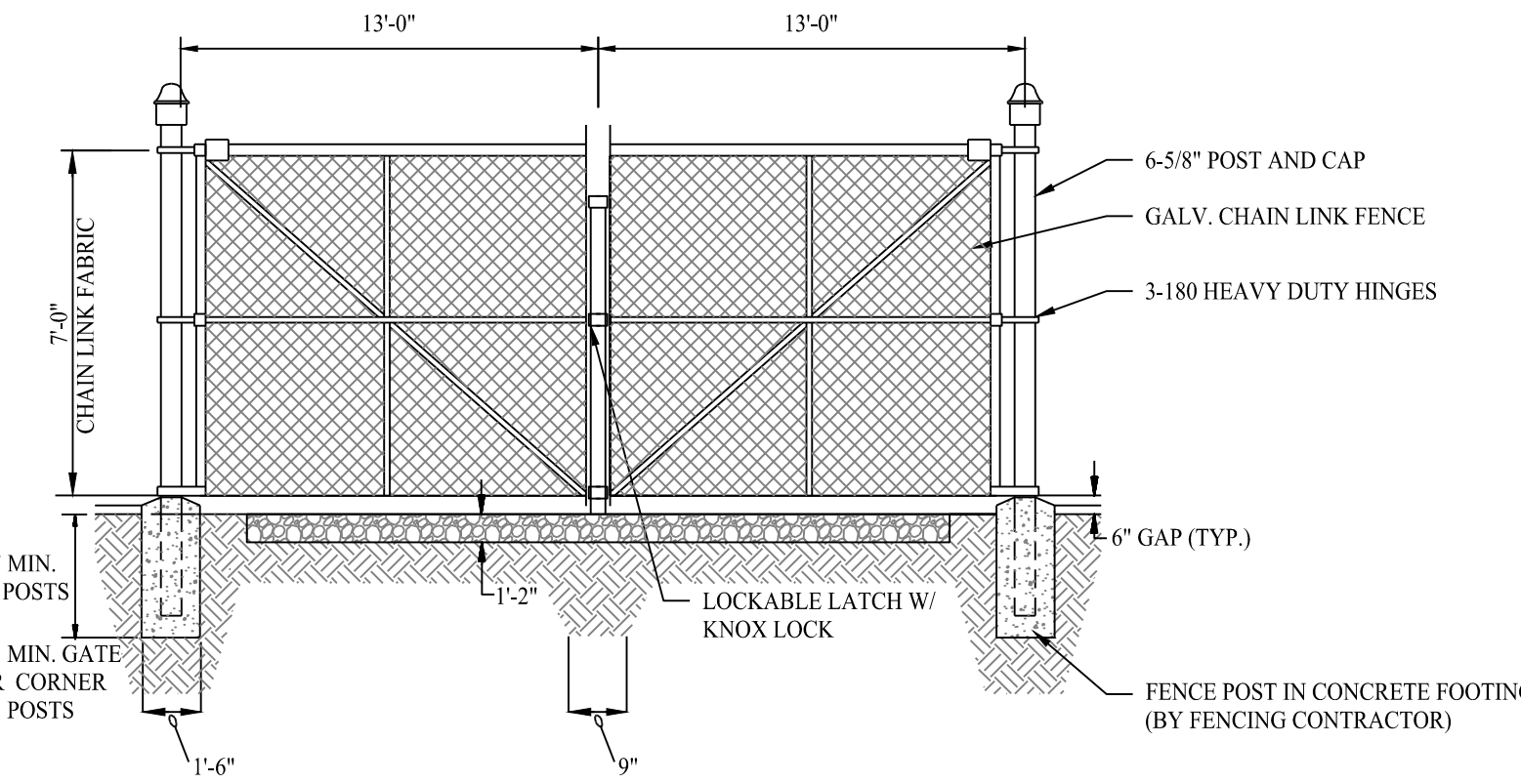
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SEE THE SITWORK SPECIFICATIONS FOR THE SIZE, TYPE, AND GAUGE OF MATERIALS THAT WILL BE USED FOR CONSTRUCTION OF A CHAIN LINK FENCE.



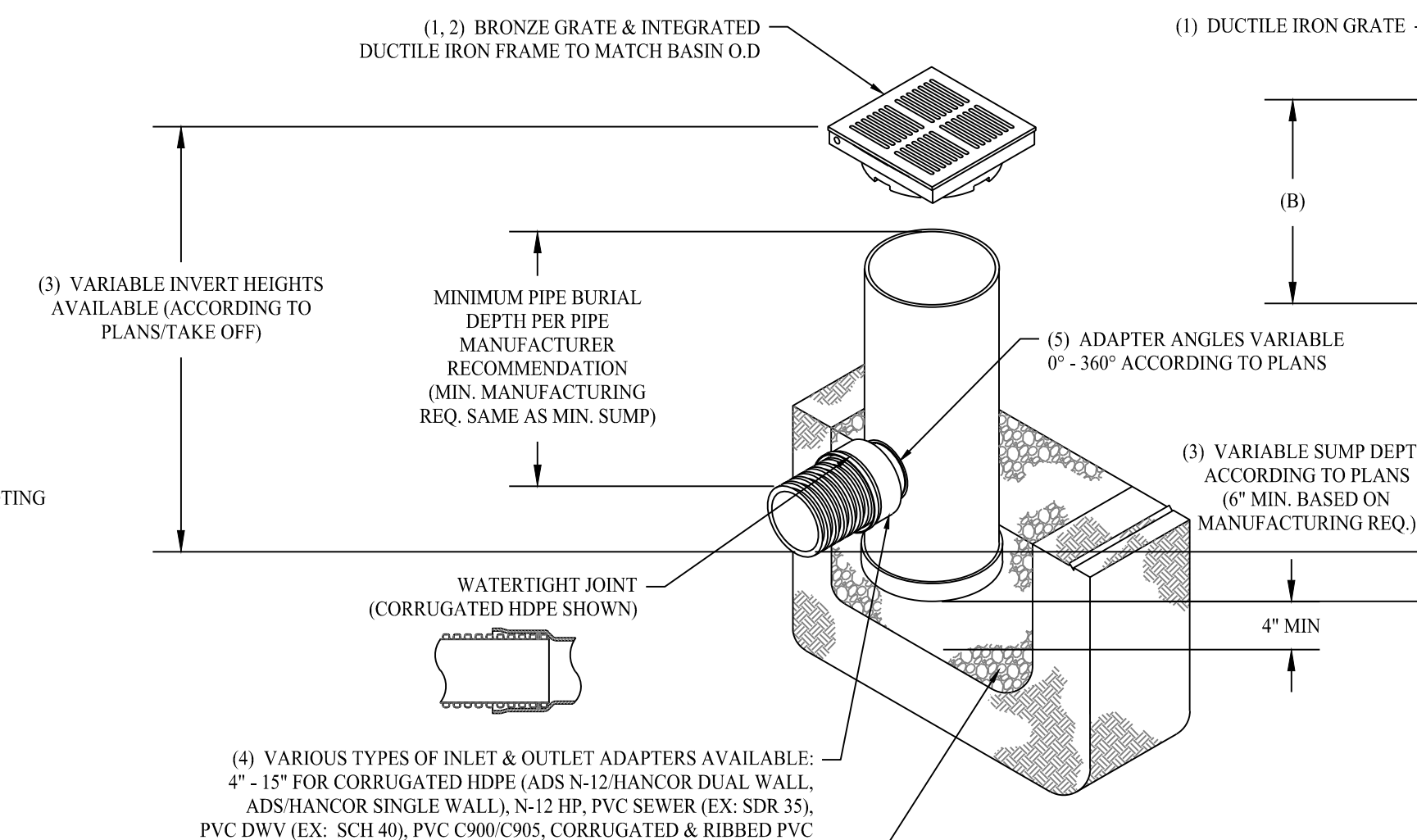
7' HIGH CHAIN LINK FENCE DETAIL

SCALE: NTS



DOUBLE SWING GATE DETAIL

SCALE: NTS



10" STANDARD DRAIN BASIN

SCALE: NTS

NOTES:

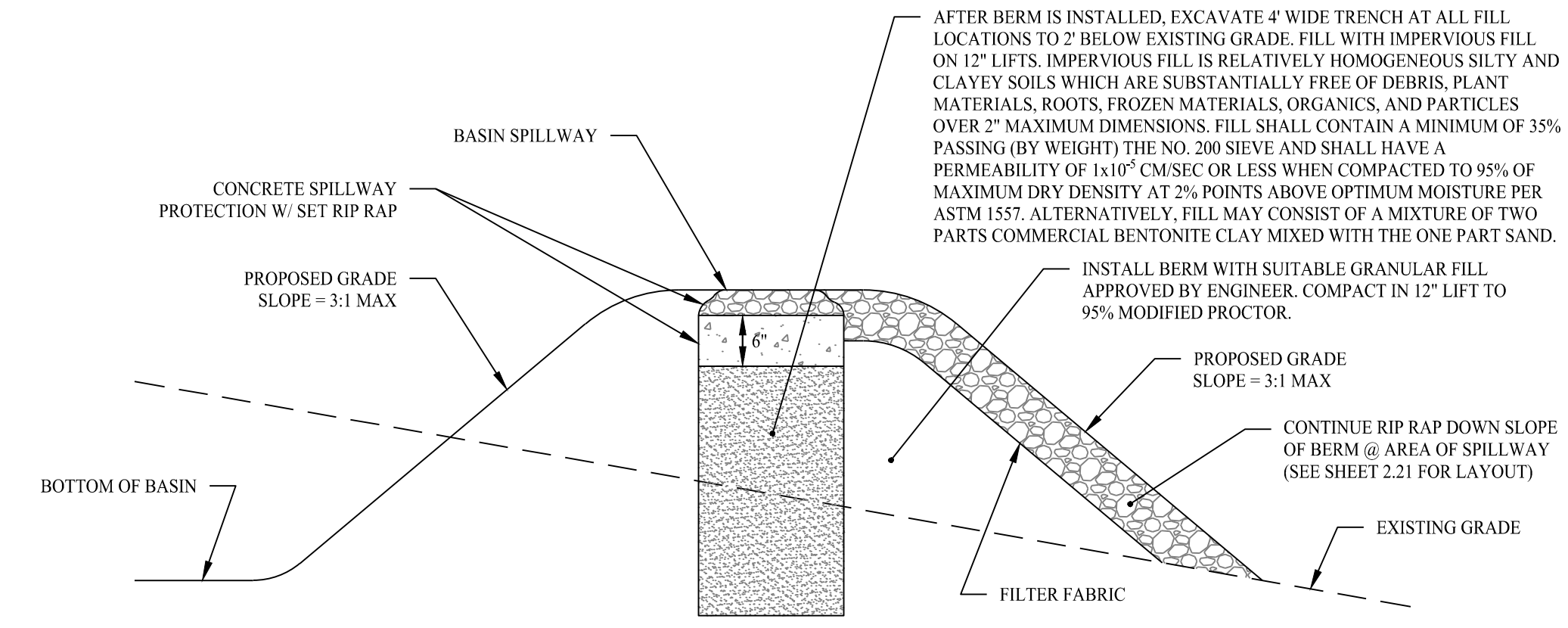
1. 8" - 15" GRATES SHALL BE SOLID BRONZE.
2. 12" & 15" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05. 8" & 10" BRONZE GRATES FIT DIRECTLY ONTO DRAIN BASINS WITH THE USE OF A PVC BODY TOP. SEE DRAWING NO. 7001-110-045.
3. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 001-110-065.
4. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12 HANCOR DUAL WALL, N-12 HP, & PVC SEWER).
5. ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
6. 8" - 15" BRONZE GRATES HAVE NO LOAD RATING.

NOTES:

1. GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2. CUSTOM DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
3. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC.
4. STANDARD DRAIN BASIN HAS FIXED ADAPTER LOCATIONS OF 0° & 180°. CUSTOM DRAIN BASIN ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
5. DIMENSIONS ARE FOR REFERENCE ONLY ACTUAL DIMENSIONS MAY VARY.

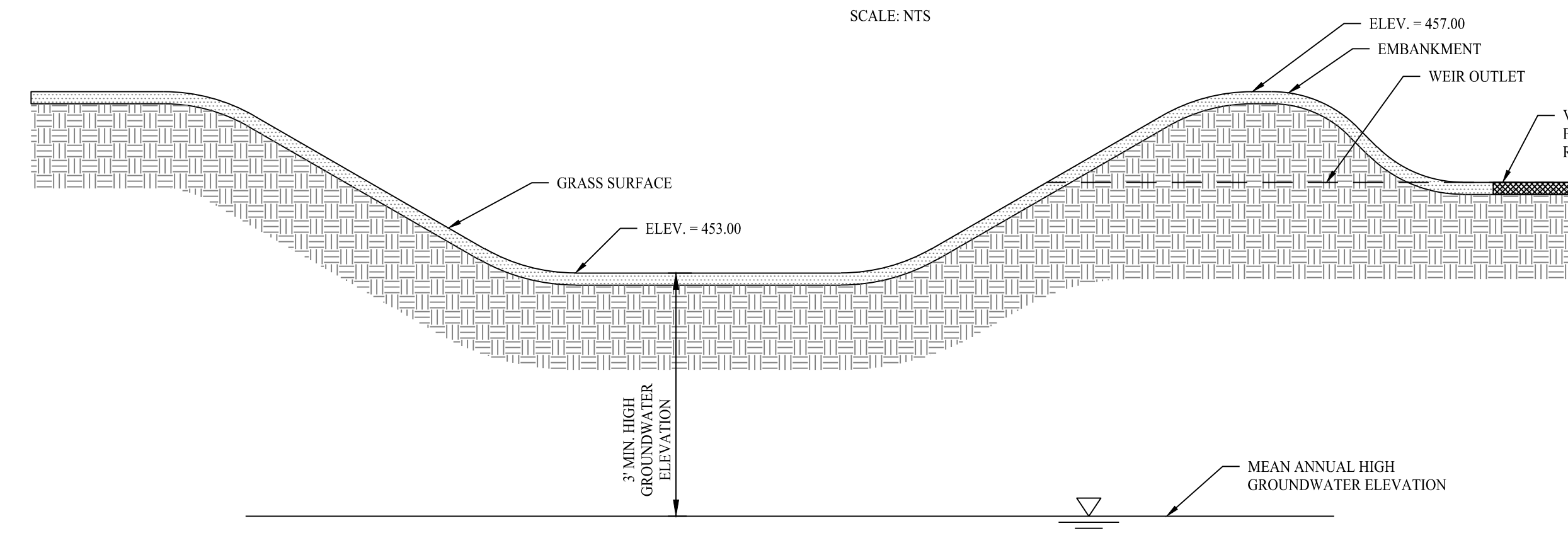
10" CUSTOM DRAIN BASIN

SCALE: NTS



TYPICAL SPILLWAY IN FILL SECTION DETAIL

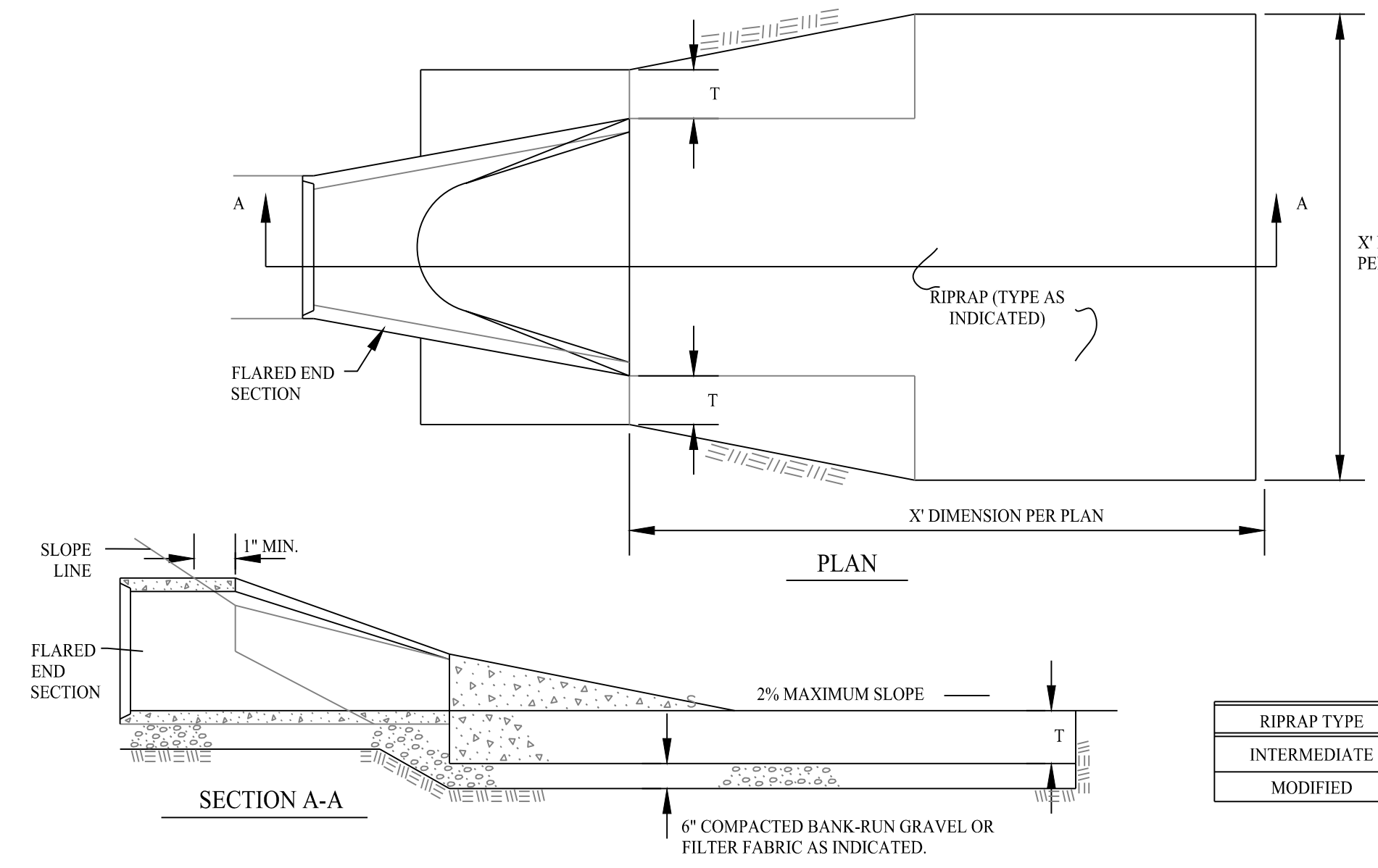
SCALE: NTS



NYLOPLAST DRAIN BASIN (YARD DRAIN) DETAIL

SCALE: NTS

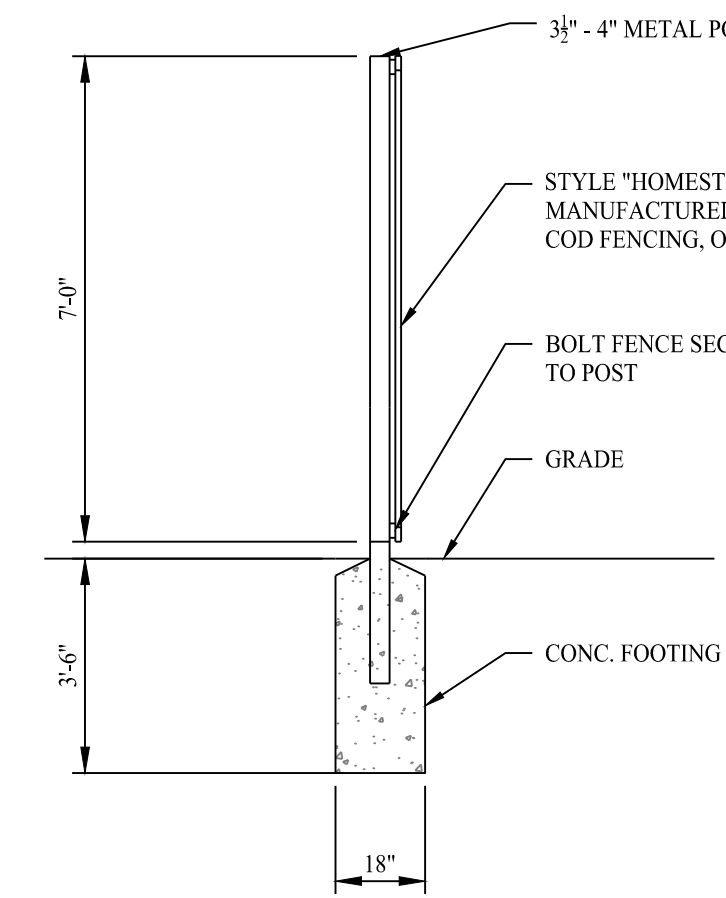
DETAIL PROVIDED BY NYLOPLAST



RIPRAP AT FLARED SECTION

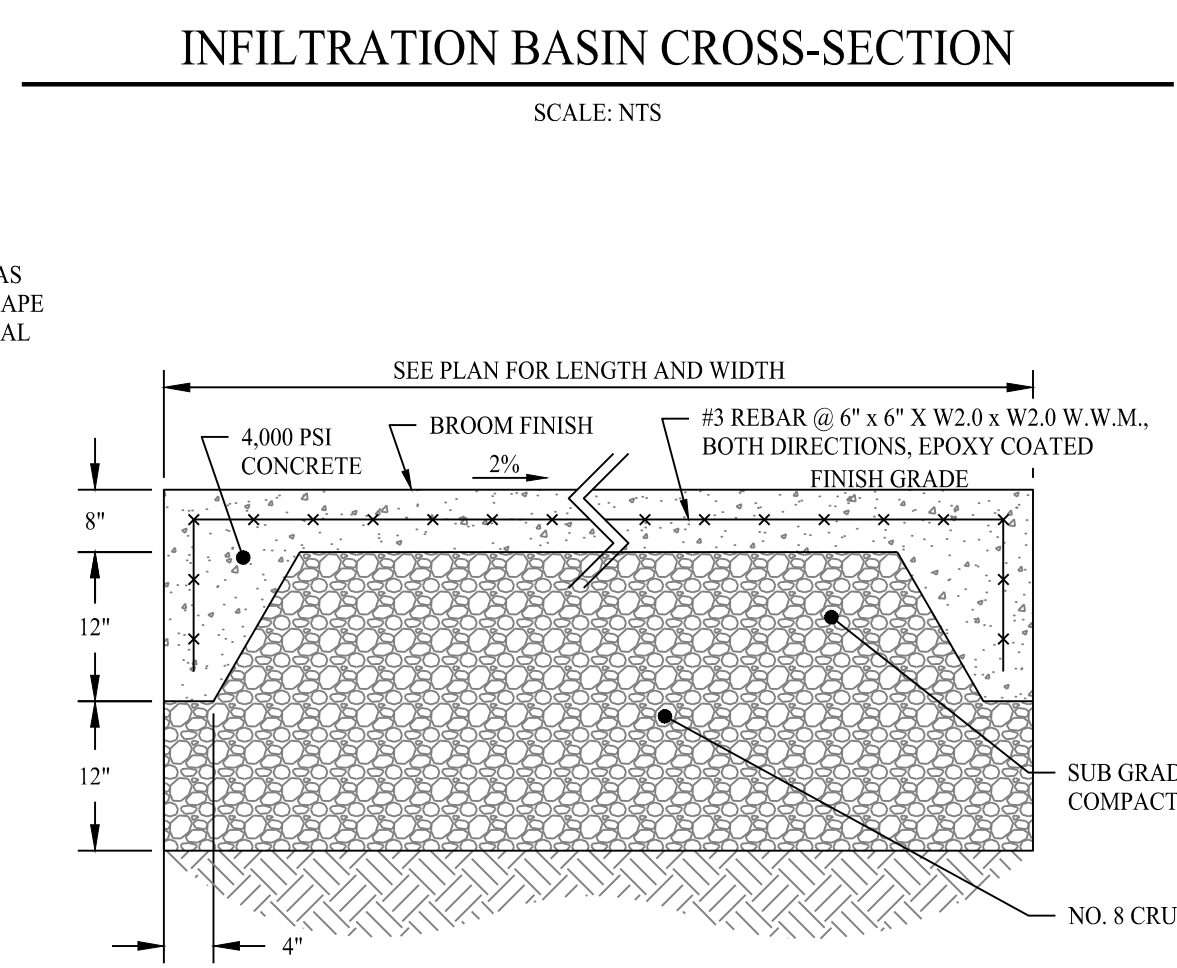
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RIPRAP TYPE	T" (INCHES)
INTERMEDIATE	18
MODIFIED	12



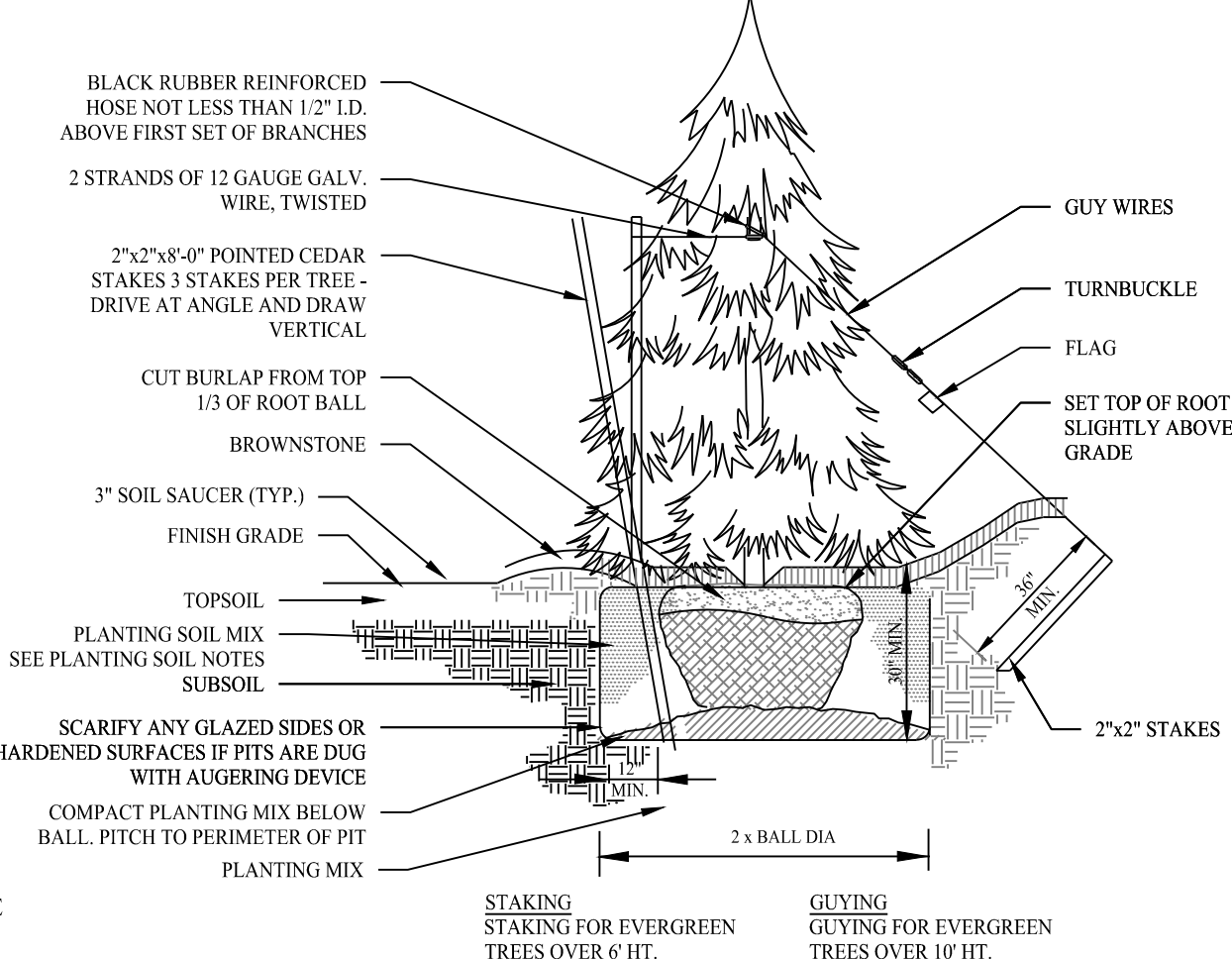
FENCE POST INSTALLATION

SCALE: NTS



CONCRETE PAD DETAIL

SCALE: NTS



EVERGREEN TREE PLANTING

SCALE: NTS

Rev. #	Date	Description
1	02/28/24	Revised Per CSC Interrogatories

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Drawn By: AWC
 Checked By: CJB
 Approved By: KMS
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 Plan Date: 09/30/23
 Scale: NTS



PROPOSED SOLAR PHOTOVOLTAIC ARRAY
 958 CT ROUTE 163
 MONTVILLE, CONNECTICUT

Sheet Title: DETAIL SHEET
 Sheet #: 3.01

February 23, 2024

Dr. Gregory F. Walwer
Archaeological Consulting Services
118 Whitfield Street
Guilford, CT 06437
(sent only via email to acsinfo@yahoo.com)

Subject: Cultural Resources Assessment Survey of a Proposed Solar Development
958 Oakdale Road (Route 163)
Montville, Connecticut

Dear Dr. Walwer:

The State Historic Preservation Office (SHPO) received the technical report prepared by Archaeological Consulting Services (ACS) titled *Phase Ia Archaeological Assessment Survey: Proposed Solar Photovoltaic Array, 958 CT Route 163, Town of Montville, Connecticut* dated June 2023. Based on the information submitted to our office, the completed investigation meets the standards set forth in the *Environmental Review Primer for Connecticut's Archaeological Resources*. SHPO understands that the proposed project will consist of the construction of a new solar facility including associated infrastructure and an access road at the referenced address. Because the project will require approval from the Connecticut Siting Council, it is subject to review by this office pursuant to the Connecticut Environmental Policy Act.

The archaeological assessment survey consisted of comprehensive background research that examined historic maps and aerial imagery as well as previously identified cultural resources in proximity to the proposed project area. The assessment survey failed to identify any properties listed on the National Register of Historic Places (NRHP) within a mile of project components. A single previously recorded archaeological site was identified south of the project area. In addition, ACS noted that the project parcel contains an inventoried residential structure constructed in 1790 and associated outbuildings. The report also noted that the proposed project will avoid impacts to the identified structures on the project parcel. The assessment and subsequent pedestrian survey of the parcel determined that the entirety of the project area retains no/low archaeological sensitivity and recommended no further investigation. Based on the information provided to our office, it is the opinion of SHPO that no historic properties will be affected by the proposed solar project and no additional archeological investigations are warranted.

This office appreciates the opportunity to review and comment upon this project. For additional information, please contact Cory Atkinson, Staff Archaeologist and Environmental Reviewer, at (860) 500-2458 or cory.atkinson@ct.gov.

Sincerely,



Jonathan Kinney
State Historic Preservation Officer

EXHIBIT C

Revised Operations and Maintenance Plan

	O&M Scope	Frequency per Year	Description
1.	General Site Inspection	Varies	<ul style="list-style-type: none"> - Verify safety and Identification labeling is present and legible. (1x per year) - Inspect site access/egress locations are free of obstructions and hazards. (1x per year) - Equipment access lanes are free of obstructions and hazards. (1x per year) - Inspect site for changes of environmental conditions such as nearby construction activity, agricultural activities, bird migrations, water table changes, acts of vandalism, and shading. (1x per year) - Wash panels using non-toxic substances. (As needed)
2.	Mechanical System Inspection	1x per year	<ul style="list-style-type: none"> - Racking structures visual and mechanical inspection. - Mechanical inspection 2% of Module-to-racking attachments for torque specification. - Module visual inspection. - DC Optimizer operation verification via monitoring equipment (when applicable). - Ballast block, foundations, driven piers, mechanical attachments, and earth screw visual inspection. - Roof protection installation methods and materials. - Equipment Grounding Conductor electrical continuity inspection. - Equipment bonding to ground electrical continuity inspection.

3.	DC & AC Electrical System Inspection	1x per year	<ul style="list-style-type: none"> - Verify safety and Identification labeling is present and legible. - Enclosure mounting, gaskets, interior, and exterior visual inspection. - Grounding and bonding inspection. - Terminations (conductors) thermography scanning. - Visual inspection of conductor termination torque markings. - Fuse and breaker thermography scanning. - Vacuum clean interiors. - Visual inspection of conduits, fittings, junctions/splice boxes, and enclosures. - Exercise operation of all protective devices. - Switchgear inspection. - Use infrared camera to inspect for hot spots, bypass.
4.	Inverter Inspection	1x per year	<ul style="list-style-type: none"> - Verify safety and Identification labeling is present and legible. - Enclosure mounting, gaskets, Interior, and exterior visual inspection. - Grounding and bonding inspection. - Inverter operation verification. - Use an infrared camera to check connections. - Vacuum clean interior. - Clean air intake/exhaust screens, fans, and filters. - Complete all other manufacturer specific maintenance procedures not listed above.
5.	Data Acquisition System Inspection	1x per year	<ul style="list-style-type: none"> - Verify safety and Identification labeling is present and legible. - Meteorological data sensor cleaning, positioning, and operation. - Inverter communication (when applicable).
6.	Reporting	1x per year	<ul style="list-style-type: none"> - Provide digital commissioning report including results from all steps with responses noting Pass, Values, or Failure with explanation. - Photo report of deficiencies.
7.	Inverter Replacement	As Needed	<ul style="list-style-type: none"> - Additional site visits related to inverter failure will be billed to Asset Manager on a time and materials basis. - Site visits will be followed with a report on site conditions and findings within three (3) business days.

8.	Testing	1x per year	<ul style="list-style-type: none"> - Perform performance test: measure incident sunlight and simultaneously observe temperature and calculate the balance of system efficiency. Compare readings with diagnostic benchmark (original efficiency of system).
9.	Vegetation Maintenance	Varies	<ul style="list-style-type: none"> - Inspect site for vegetation growth or accumulation which could shade arrays and impact PV production (4x per year) - Mow, clear, and/or apply herbicides or pre-emergent (where allowed by applicable laws and regulations) to manage site vegetation. Mowing will be completed at a slow speed, the mower height will be 7-12," and performed in a pattern that allows wildlife to escape the tractor and mower, and equipment will be washed before and after use at the site to prevent the spread of invasive plants. (4x per year during the first 5 years and establishing of the vegetation, but then decrease to 1x per year) - Inspect arrays for soiling, evidence of pest infestation, water pooling, vegetation growth, shading or damage (2x per year). - Photo-document general condition of each array, noting any corrective actions and location of any issues requiring remediation beyond project manager visit time allocation (2x per year). - Inspect site for landscaping die off (4x per year) and replace dead landscaping (As needed).
10.	Stormwater Control Management	As Needed	<ul style="list-style-type: none"> - Perform the steps to be outlined in the Stormwater Pollution Control Plan, approved by the Connecticut Department of Energy and Environmental Protection, and in compliance with the 2004 Connecticut Stormwater Quality Manual and 2002 Connecticut Guidelines for Soil Erosion and Sediment Control.