The petitioner is submitting for a partial Development and Management (D&M) Plan for the site, to begin sitework in preparation of construction of the electrical facility. The final electrical layout and interconnection of the facilities is still under design and review with the interconnecting utility. The responses below outline the Petitioner's Development and Management Plan.

- 1. The Petitioner shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-60 through 16-50j-62 of the Regulations of Connecticut State Agencies. The D&M Plan shall be provided to the service list and submitted to and approved by the Council prior to the commencement of facility construction and shall include:
 - A final site plan including, but not limited to, final facility layout, access roads, electrical interconnection including riser pole locations, fence design, equipment pads, and stormwater management control structures;
 Attached as *Exhibit A Benz Civil Site Documents REV #9 6-24-21* are the final site plan and civil construction documents. A revision to the plans has been made for this phase of construction to forgo demolition of the residence on site and utilize the existing driveway. Minor modifications have been made to the plans to support these changes and the SWPCP has been amended to include these revisions.

The Petitioner is continuing to work with United Illuminating (UI) to finalize the project interconnection. The Petitioner will work with UI to reduce overhead visual impacts of the project along Benz Street as mentioned in the CSC decision hearing for the project. The final interconnection design is ultimately controlled by the utility, and the Petitioner will press the Council's concerns during the final design process.

 Details of construction phasing that includes, at a minimum, one growing season upon completion of the stormwater basins, swales, perimeter erosion and sedimentation controls, and solar field grading, prior to the commencement of solar array construction. One growing season is defined as April 1 through June 15 or August 15 through October 15;

It is intended to begin site preparation on or before 8/2/21 pending the CSC approval of the site preparation portion of the D&M plan. After site clearing, perimeter erosion controls and grading will occur with the intent to get vegetation established in those areas on or around August 15th, to allow for a growing season through October 15th. The site will be inspected at that time to determine if groundcover establishment is sufficient to begin solar facility construction on October 17th, 2021. Physical construction of the facility would not commence until the Council has approved the construction portion of the D & M plan.

- c. Submit a box turtle protection program; Attached as *Exhibit B – Box turtle protection plan*
- d. Submit a copy of the DEEP Stormwater Permit; Attached as *Exhibit C – DEEP Stormwater Permit Authorization*
- e. Submit the final structural design for the racking system, stamped by a Professional Engineer duly licensed in the State of Connecticut prior to commencement of construction;

The petitioner is yet to finalize the racking and electrical design for the project. Once the site is cleared/graded, the Petitioner will perform on site testing to determine racking and foundation design. The Petitioner will submit final racking and electrical design documents prior to the construction of the solar facility for approval of a final Development and Management Plan.

- f. Final plans for hosting sheep grazing at the site, if applicable, including, but not limited to, provisions for emergency evacuation;
 The Petitioner will submit a sheep grazing plan for approval prior to grazing the site.
 The grazing plan will accompany the submission for the final Development and Management Plan.
- g. Installation of a black vinyl-coated solar field perimeter fence along Benz Street with a six inch gap at the bottom for wildlife movement if WS opts not to host sheep grazing at the site under (f);

The Petitioner will install a black vinyl coated perimeter fence along Benz Street with the civil phase of construction. The Petitioner intends to graze the site once the electrical facility is operational. The black vinyl coated fence will be installed without a 6" gap to ensure a secure facility.

- h. Construction hours shall occur Monday through Saturday with any Sunday work to be requested, as necessary;
 Due to the nature of completing the site preparation in a timely fashion to attain site stabilization as quickly as possible, the Petitioner is requesting to be able to perform Sunday work throughout the site preparation process.
- Submit an updated DEEP NDDB determination letter prior to commencement of construction;
 Attached as *Exhibit D DEEP Updated NDDB determination Letter*.
- j. Consult with the DEEP Dam Safety Division regarding permitting requirements, if any, for the proposed stormwater basins prior to site construction; The Petitioner has contacted DEEP Dam Safety, they are currently reviewing the project, it is not anticipated that any additional permitting requirements will be necessary at this time. Prior to construction, the Petitioner will provide the CSC with official correspondence.
- k. Solar module specifications that indicate the selected solar module will not contain PFAS and will not be characterized as hazardous waste through applicable TCLP testing at the time of this decision; and
 The Petitioner has tentatively selected a Trina 475W module for the project. *Exhibit E Trina Module Cut Sheet*
- 1. Identification of the location for the on-site disposal of excess cut material from site grading activities. If a rock processor is to be used on-site, submit details regarding the location of the processor and associated erosion/sedimentation controls and sediment traps, and details of water use to control dust emissions.

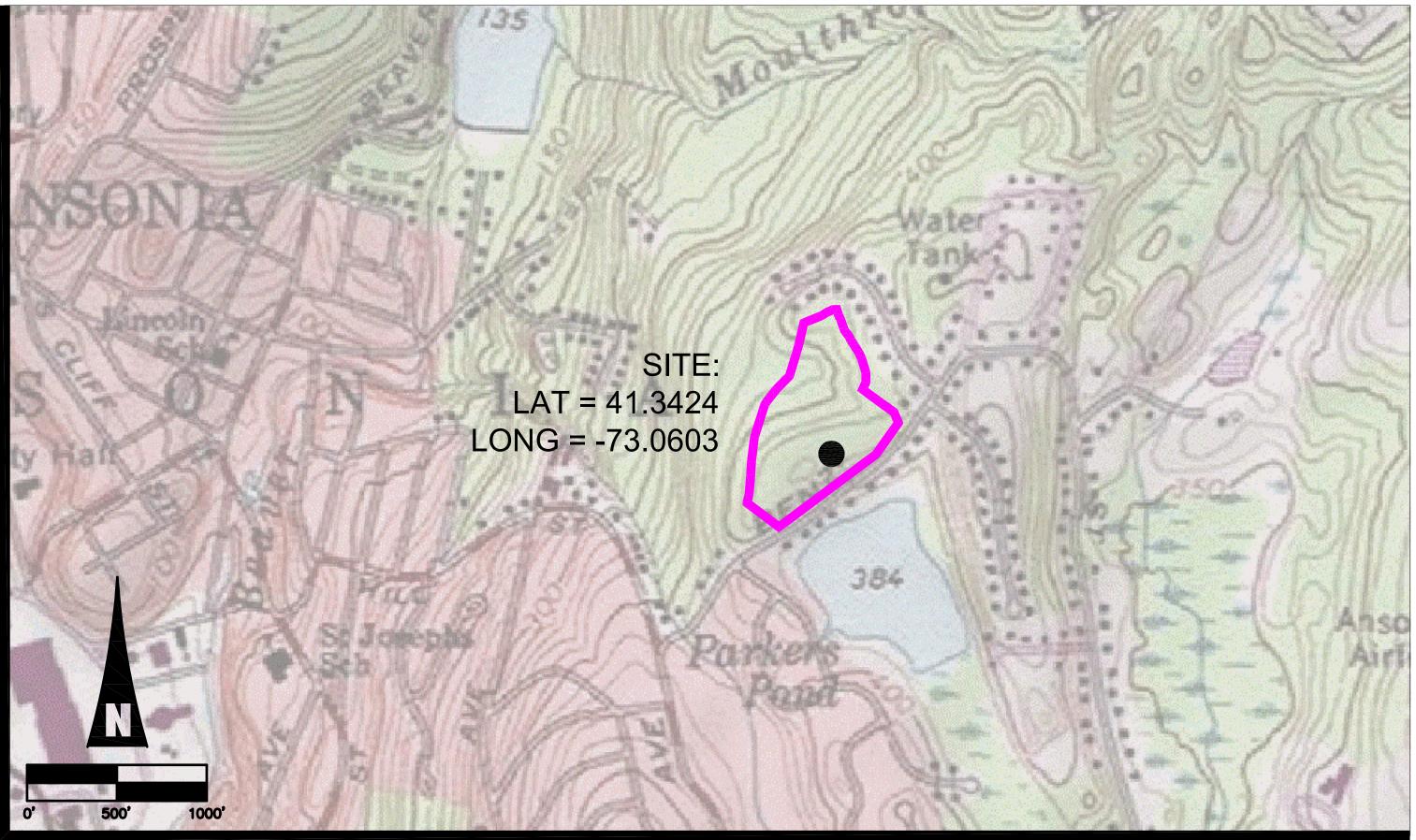
A crushing area has been identified on the grading and erosion control plan in Exhibit A. This includes an area large enough for crushing stockpiles to and to work around them, for loading and handling material once complete. There are any additional erosion control measures required for the crushing operation. The crushing equipment will require water hookup of a ³/₄" hose connection from the residence and watering systems are built into the crusher for dust control. All crushing operations will follow the requirements of the approved SWPCP.

Additional Items:

The Petitioner has updated the language associated with the originally submitted decommissioning memo Exhibit F - Benz Solar Decommissioning Memo.

BENZ STREET SOLAR CONNECTICUT SITING COUNCIL DOCUMENTS FOR Site/Electrical Layout, Grading/Drainage/Erosion Control/Landscaping IN ANSONIA, CONNECTICUT

LOCATION MAP



CONTACT INFO:

RECORD LANDOWNER: PLH, LLC

77 WATER STREET 8TH FLOOR NEW YORK, NY 10005

OWNER/DEVELOPER:

ECOS ENERGY 222 SOUTH 9TH STREET SUITE 1600 MINNEAPOLIS, MN 55402

CIVIL ENGINEER: CLA ENGINEERS, INC. **317 MAIN STREET** NORWICH, CT 06360 TEL: 860-886-1966

CLA

9	6/24/2021	1	COVER SHEET
-	2/04/2019	2	ALTA SURVEY (BY GODFREY HOFFMAN HODGE,
9	6/24/2021	3	SITE PLAN
9	6/24/2021	4	GRADING AND EROSION CONTR
9	6/24/2021	5	SITE GRADING PLAN: BASIN #1
9	6/24/2021	6	SITE GRADING PLAN: BASIN #2
9	6/24/2021	7	LANDSCAPE PLAN
9	6/24/2021	8	KEY OBSERVATION POINTS
9	6/24/2021	9	PROJECT CROSS SECTION
9	6/24/2021	10	CIVIL NOTES
9	6/24/2021	11	CIVIL DETAILS

SHEET INDEX

DRAWING INDEX LEGEND

FILLED CIRCLE IN MOST RECENT RE MOST RECENT IS	EVISION	
Ó - X/XX/202X	Х	SHEET TITLE

SURVEYOR & WETLANDS DELINEATION:

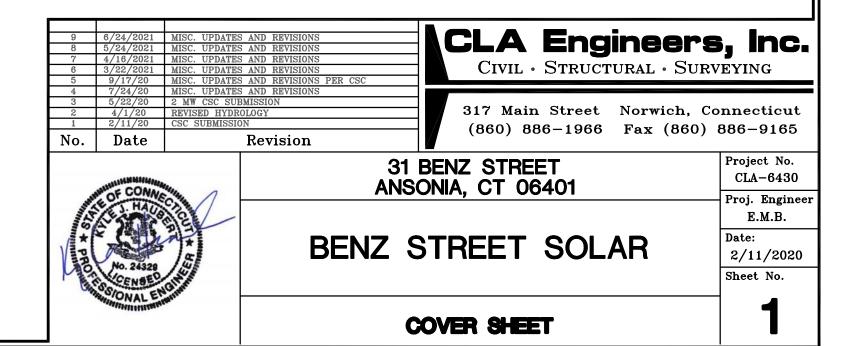
GODFREY HOFFMAN HODGE, LLC 26 BROADWAY NORTH HAVEN, CT 06085 TEL: 203-239-4217

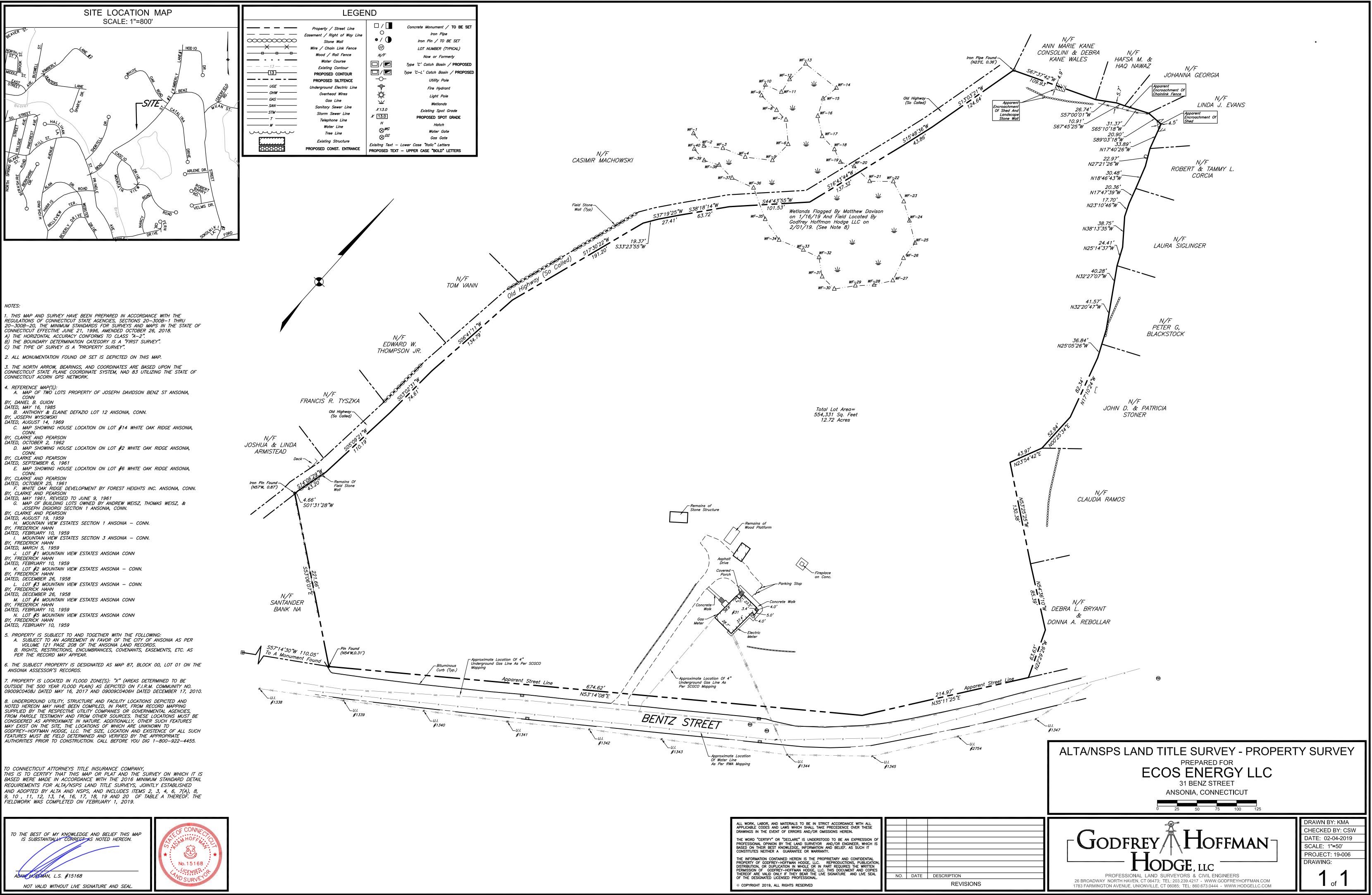
EXHIBIT A

REY HOFEMAN HODGE () C)

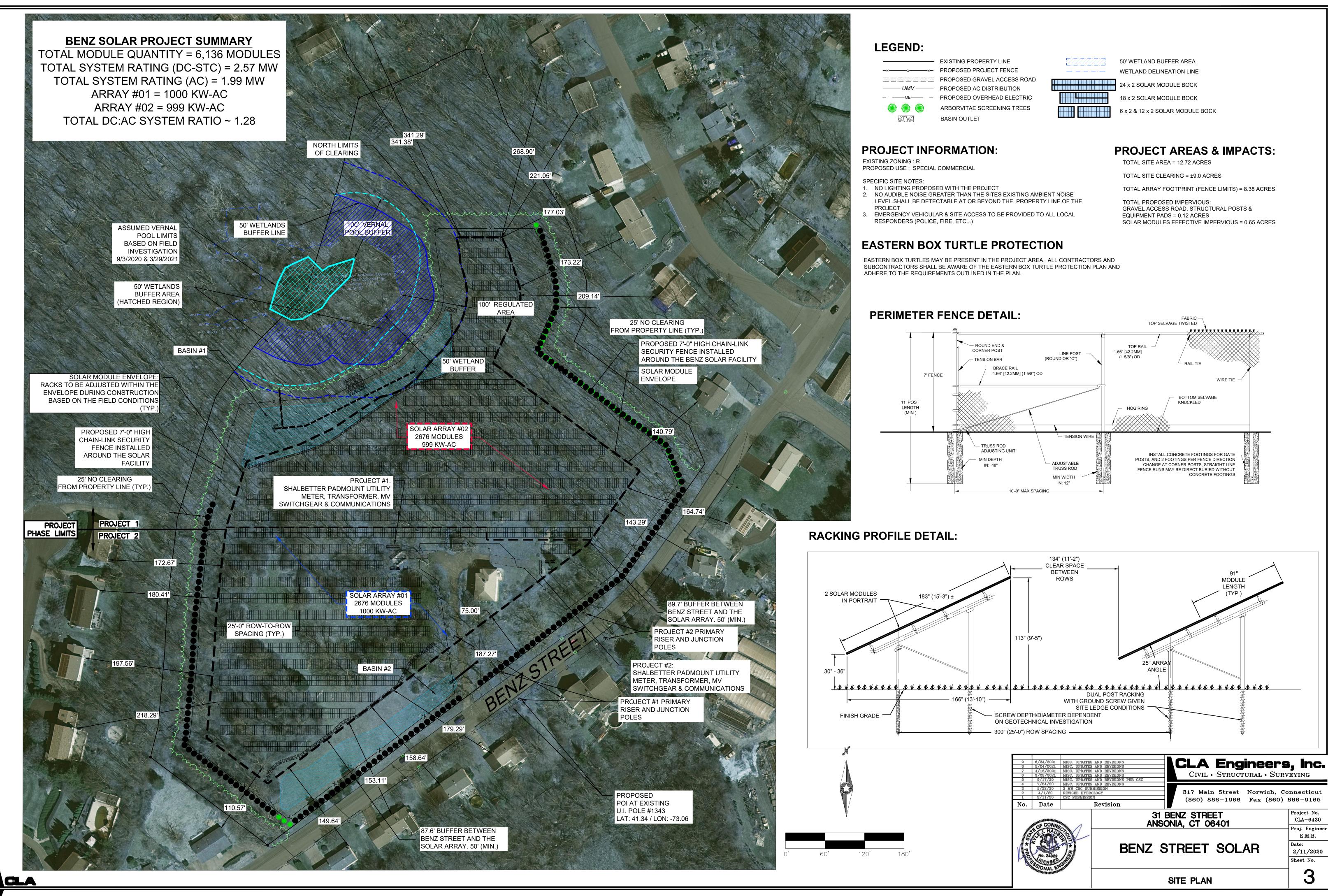
SION CONTROL PLAN

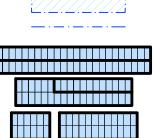
HIS ISSUE

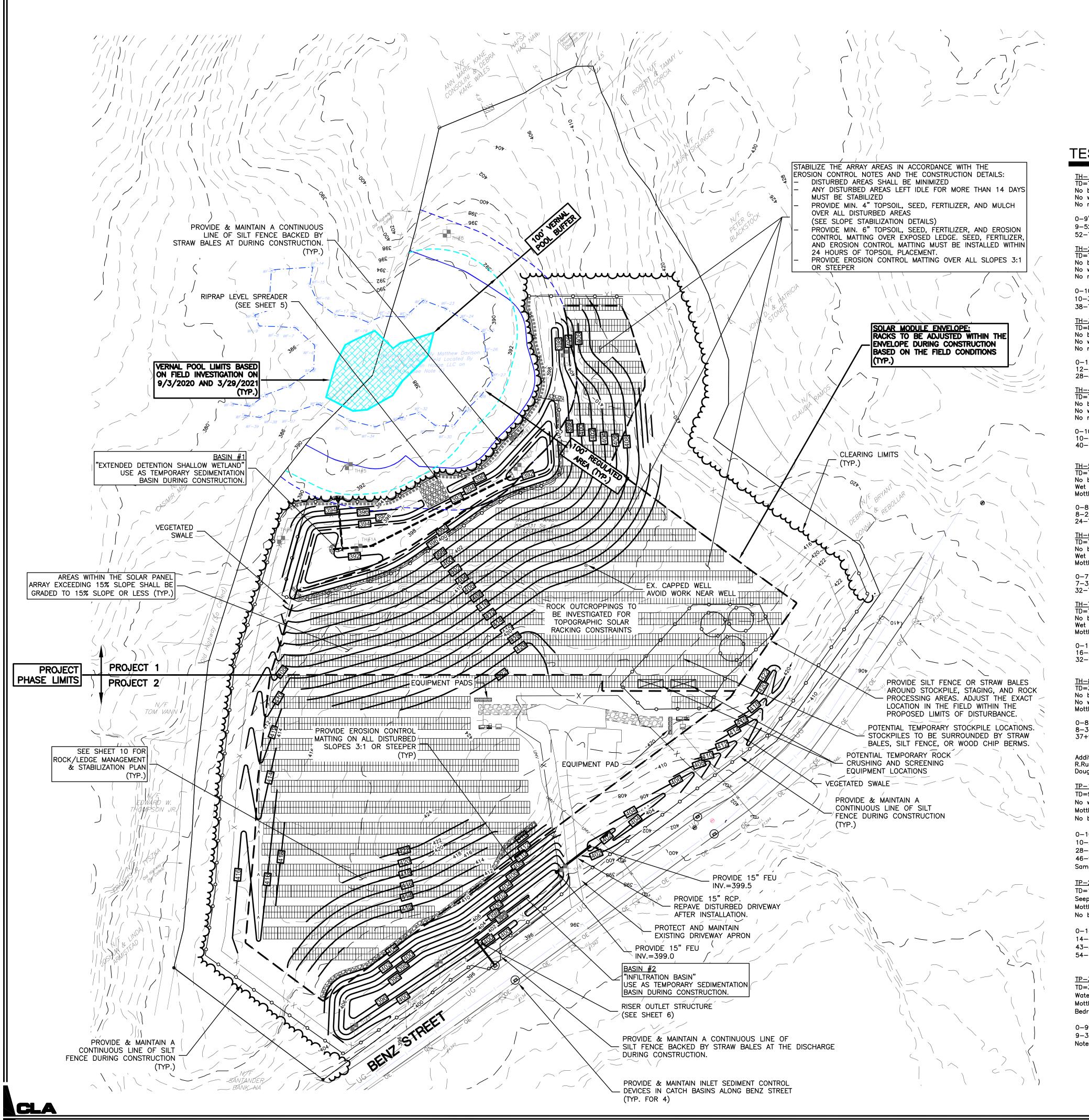




	_			
ALL WORK, LABOR, AND MATERIALS TO BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND LAWS WHICH SHALL TAKE PRECEDENCE OVER THESE DRAWINGS IN THE EVENT OF ERRORS AND/OR OMISSIONS HEREIN.				
,				
THE WORD "CERTIFY" OR "DECLARE" IS UNDERSTOOD TO BE AN EXPRESSION OF PROFESSIONAL OPINION BY THE LAND SURVEYOR AND/OR ENGINEER, WHICH IS BASED ON THEIR BEST KNOWLEDGE, INFORMATION AND BELIFF, AS SUCH IT				
CONSTITUTES NEITHER A GUARANTÉE OR WARRANTY.				
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY AND CONFIDENTIAL PROPERTY OF GODFREY-HOFFMAN HODGE, LLC. REPRODUCTIONS, PUBLICATION,				
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THEREOF ARE VALID ONLY IF THEY BEAR THE LIVE SIGNATURE AND LIVE SEAL OF THE DESIGNATED LICENSED PROFESSIONAL.		NO.	DATE	DESCRIP
© COPYRIGHT 2019, ALL RIGHTS RESERVED				







LEGEND:

----- OE ------

TEST HOLE DATA:

<u>TH-1</u> TD=72" No bedroc No water No mottles	
0—9" 9—52" 52—72"	Topsoil, Brown fine sandy loc Yellow brown fine sandy loam Gray loamy sand with boulde
<u>TH-2</u> TD=72" No bedroc No water No mottles	
0–10" 10–3" 38–72"	Topsoil, Brown fine sandy lo Yellow brown fine sandy loam Gray loamy sand with boulde
<u>TH-3</u> TD=84" No bedroct No water No mottles	
0–12" 12–28" 28–84"	Topsoil, Brown fine sandy loc Yellow brown fine sandy loam Gray loamy sand with boulde
<u>TH-4</u> TD=74" No bedroc No water No mottles	
0—10" 10—40" 40—74"	Topsoil, Brown fine sandy lo Yellow brown fine sandy loam Gray loamy sand with angula stones and mica
<u>TH-5</u> TD=76" No bedroc Wet at 44 Mottles 24	n
0–8" 8–24" 24–76"	Topsoil, Dark Brown fine sand Red brown fine sandy loam Red brown sandy loam with
<u>TH-6</u> TD=70" No bedroct Wet at 50 Mottles 30	"
0–7" 7–32" 32–70"	Topsoil, Dark Brown fine sand Red brown fine sandy loam of Gray loamy sand with boulde
<u>TH-7</u> TD=70" No bedroc Wet at 36 Mottles 32	"
0–16" 16–32" 32–70"	Topsoil, Dark Brown fine sand Red brown fine sandy loam of Red brown fine sandy loam of brown mottles
<u>TH-8</u> (dor TD=37" No bedroc No water Mottles 34	
0–8" 8–34" 37+"	Topsoil, Dark Brown fine sand Red brown fine sandy loam Red brown loamy sand with brown mottles
Additional R.Russo Cl Douglas Co	Test pits performed on April 3 LA Engineers, R. Galton ECOS, onstruction excavator
<u>TP-1A</u> TD=98" No water Mottles 46 No bedroc	
0–10" 10–28" 28–46" 46–98" Samples a	Topsoil, dark brown sandy loo subsoil strong brown fine sar subsoil brown fine sandy loar gray brown fine sandy loarn t 46–98″
<u>TP-2A</u> TD=118" Seeping 54 Mottles 54	

TD = 1Seepi Mottles 54 No bedrock

0-14" Topsoil, dark brown sandy loam subsoil yellow brown fine sandy loam 14-43" 43–54" subsoil brown fine sandy loam 54-118" gray brown fine sandy loam with stones and cobbles DENSE

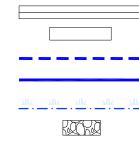
<u>TP-3A</u> TD=32" Water 28" Mottles 28" Bedrock 32"

0-9" Topsoil, dark brown sandy loam 9-32" subsoil yellow brown fine sandy loam with boulders Note: Surface ledge 15 feet to the east.

 x
UMV
OE
658 658

EXISTING PROPERTY LINE PROPOSED FENCE PROPOSED GRAVEL ACCESS ROAD PROPOSED UNDERGROUND MV CABLE PROPOSED OVERHEAD ELECTRIC

EXISTING CONTOUR PROPOSED CONTOUR



26 x 2 SOLAR MODULE BOCK 13 x 2 SOLAR MODULE BOCK - - - - - - 100' WETLAND REGULATED AREA LIMIT 50' WETLAND BUFFER 🤐 👾 . 👑 . 👾 . 👑 WETLAND DELINEATION LINE & AREA

CONSTRUCTION NOTES:

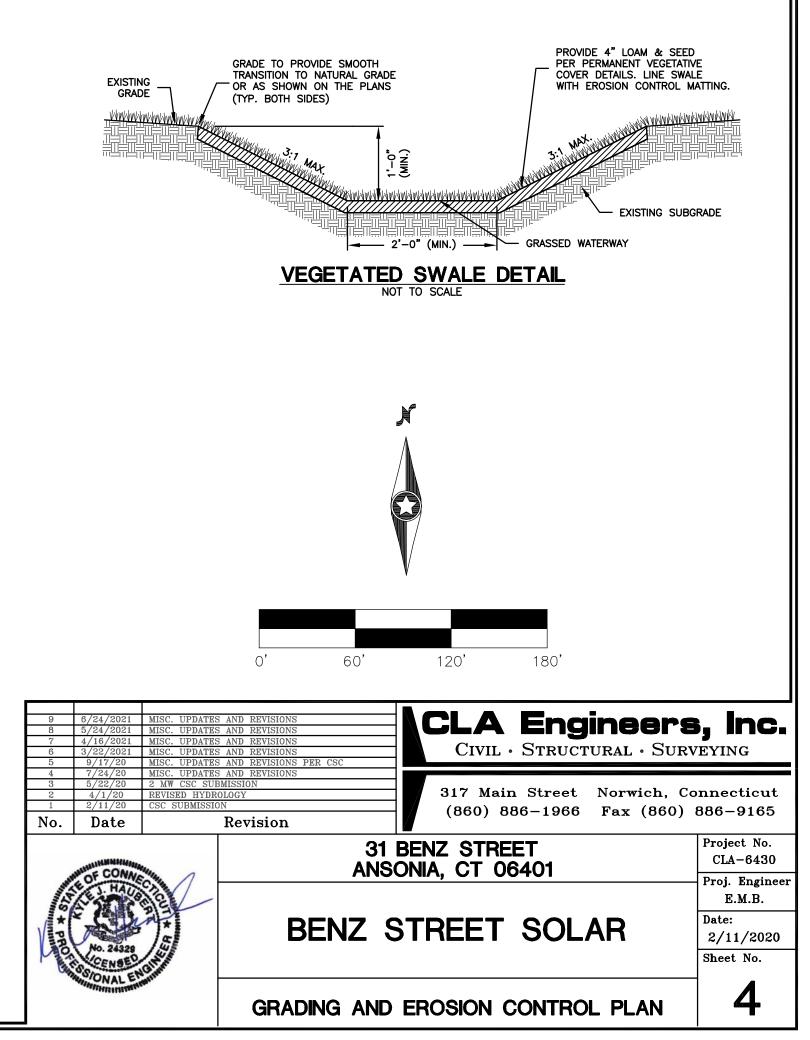
1. THE CONTRACTOR SHALL PERFORM ALL TREE REMOVAL ACTIVITIES ON SITE TO ALLOW FOR SEDIMENT TRAP INSTALLATION, NO GRUBBING IS TO OCCUR DURING TREE REMOVAL, PRIOR TO SEDIMENT TRAP INSTALLATION.

RIP-RAP BASIN OUTLET

- 2. ALL SEDIMENT TRAP'S IDENTIFIED ON THE PLAN SHALL BE STAKED BY A REGISTERED SURVEYOR AND INSTALLED PER PLANS PRIOR TO ANY CONSTRUCTION ACTIVITY.
- 3. AS-BUILT DRAWINGS SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION OF THE PROJECT.
- EASTERN BOX TURTLES MAY BE PRESENT IN THE PROJECT AREA. ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE AWARE OF THE EASTERN BOX TURTLE PROTECTION PLAN AND ADHERE TO THE REQUIREMENTS OUTLINED IN THE PLAN.

EROSION CONTROL NOTES:

- 1. DEVELOPER/CONTRACTOR TO OBTAIN A DEEP GENERAL STORMWATER PERMIT PRIOR TO **BEGINNING CONSTRUCTION.**
- 2. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED BEFORE ANY SOIL DISTURBANCE.
- 3. THE AREA OF DISTURBANCE SHALL BE KEPT TO A MINIMUM. DISTURBED AREAS REMAINING IDLE FOR MORE THAN 14 DAYS SHALL BE STABILIZED.
- 4. MEASURES SHALL BE TAKEN TO CONTROL EROSION WITHIN THE PROJECT AREA. SEDIMENT IN RUNOFF WATER SHALL BE TRAPPED AND RETAINED WITHIN THE PROJECT AREA USING APPROVED MEASURES.
- 5. WETLAND AREAS AND SURFACE AREAS SHALL BE PROTECTED FROM SEDIMENT. OFF-SITE SURFACE WATER AND RUNOFF FROM UNDISTURBED AREAS SHALL BE DIVERTED AWAY FROM DISTURBED AREAS WHERE FEASIBLE OR CARRIED THROUGH THE PROJECT AREA WITHOUT CAUSING EROSION. INTEGRITY OF DOWNSTREAM DRAINAGE SYSTEMS SHALL BE MAINTAINED.
- 6. ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE REMOVED AFTER FINAL SITE STABILIZATION. STABILIZATION MEASURES SUCH AS HYDRO-SEEDING OR APPLICATION OF HAY/MULCH OR SOIL NETTING SHALL BE APPLIED PRIOR TO REMOVAL OF TEMPORARY EROSION MEASURES AND INSPECTED WEEKLY UNTIL STABILIZATION IS COMPLETE. TEMPORARY EROSION CONTROL MEASURES MAY BE REMOVED ONCE STABILIZATION OF ALL SITE SOILS HAS BEEN ACHIEVED AND WRITTEN AUTHORIZATION TO DO SO HAS BEEN PROVIDED BY THE STORM-WATER AUTHORITY. TRAPPED SEDIMENT SHALL BE REMOVED IMMEDIATELY WITH TEMPORARY EROSION CONTROL METHODS AND LAWFULLY DISPOSED OF OFF-SITE. OTHER DISTURBED SOIL AREAS RESULTING FROM THE REMOVAL OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED WITHIN THIRTY DAYS.



oam with boulders m with boulders ers

loam with boulders m with boulders ers, dense at 65 inches

oam with boulders m with boulders lers, dense at 63"

loam ar boulders and

ndy loam gray brown mottles

ndv loam with gray brown mottles

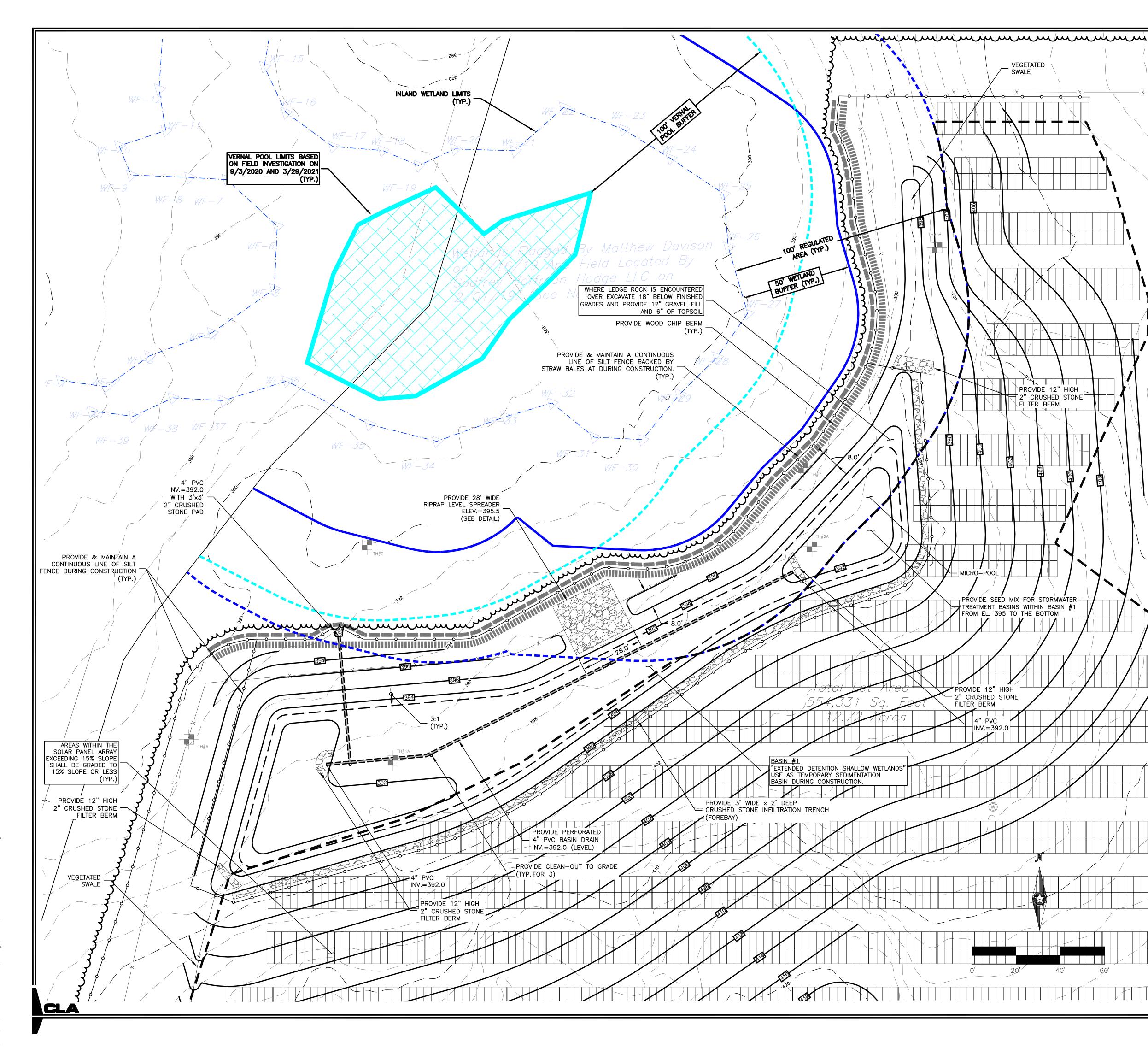
ndy loam with gray brown mottles with boulders and gray

ndy loam

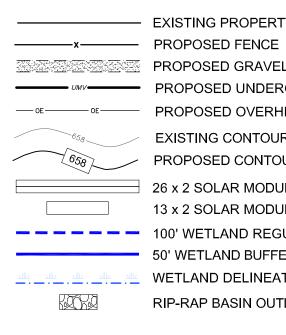
boulders and gray

30, 2021

andy loam with stones DENSE



LEGEND:



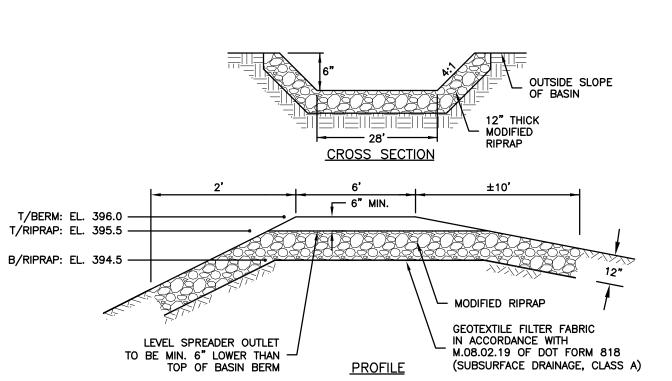
------ EXISTING PROPERTY LINE PROPOSED GRAVEL ACCESS ROAD PROPOSED UNDERGROUND MV CABLE EXISTING CONTOUR PROPOSED CONTOUR 26 x 2 SOLAR MODULE BOCK 13 x 2 SOLAR MODULE BOCK ---- 100' WETLAND REGULATED AREA LIMIT 50' WETLAND BUFFER **RIP-RAP BASIN OUTLET**

SEED MIX FOR STORMWATER TREATMENT BASIN SEE SHEET 7 - LANDSCAPE PLAN FOR SEED MIX SPECIFICATIONS

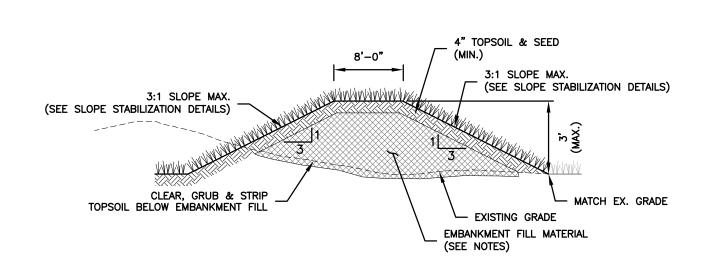
PERVIOUS TOPSOIL MIX FOR STORMWATER TREATMENT BASINS THE FOLLOWING PERVIOUS TOPSOIL MIX SHALL BE USED IN THE STORMWATER TREATMENT BASINS. THE MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE M.13.01.1 OF DOT FORM 817 WITH THE

FOLLOWING GRADATION: DO NOT COMPACT MATERIAL DURING INSTALLATION

<u>SIEVE</u> #10 <u>% PASSING</u> 100% #40 60-80% #80 5% *#*200 0%



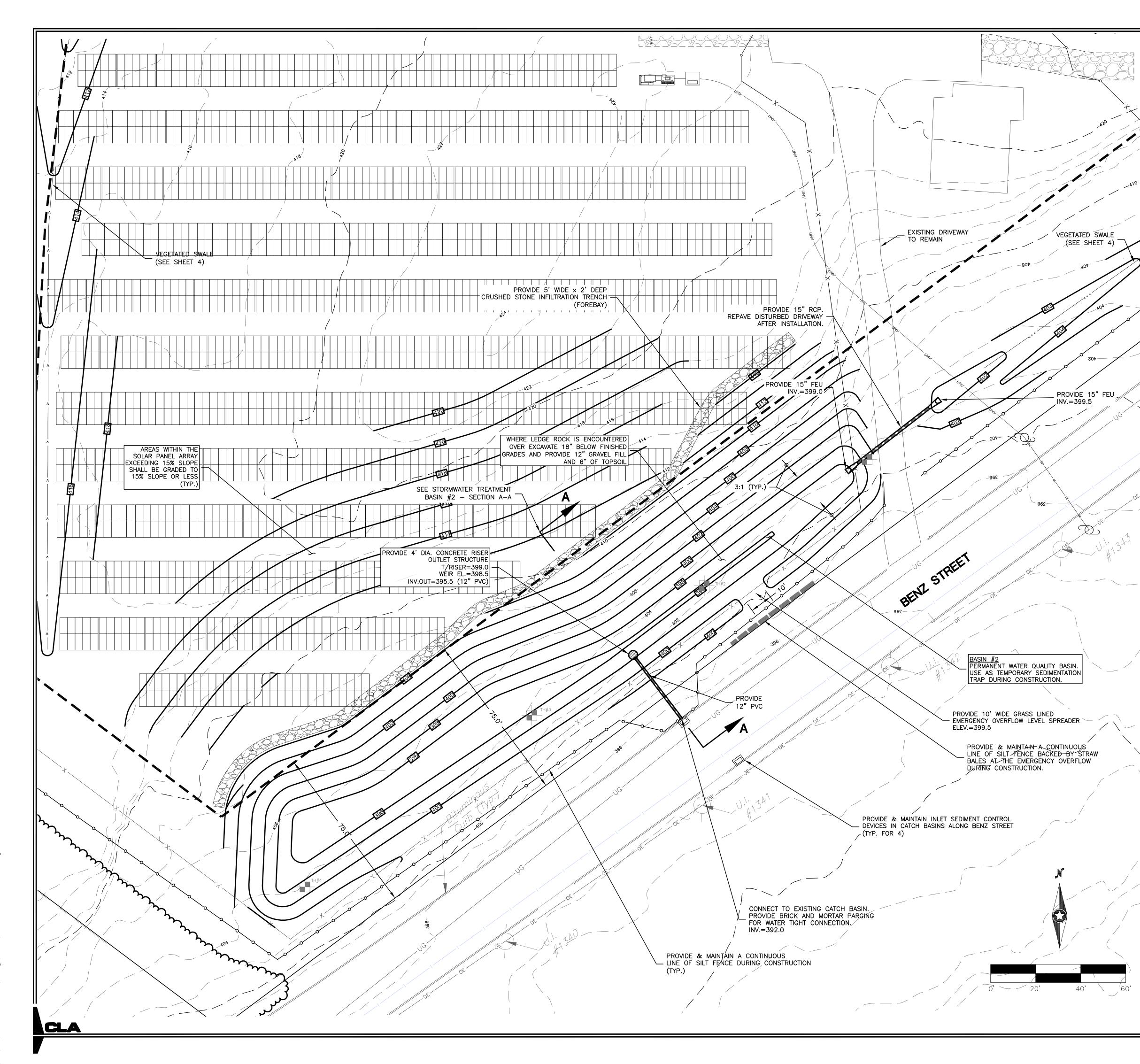




NOTES: 1. EMBANKMENT FILL MATERIAL SHALL CONSIST OF THE FOLLOWING A. CLEAN MINERAL SOIL, FREE OF ROOTS, WOODY VEGETATION, STUMPS, SOD, OVERSIZED STONES, ROCKS, OR OTHER ORGANIC UNSUITABLE MATERIAL. B. SHALL BE A NON-FREE DRAINING GLACIAL TILL C. MATERIAL SHALL CONTAIN AT LEAST 15% PASSING THE #200 SIEVE AND NOT MORE THAN 50% DATEMING THE #200 SIEVE

- D. NO STONES LÄRGER THAN 6" SHALL BE ALLOWED WITHIN THE EMBANKMENT.
- E. NO STONES LARGER THAN 3" SHALL BE ALLOWED WITHIN 2 FEET OF STRUCTURES. 2. EMBANKMENT FILL SHALL BE PLACED IN MAXIMUM 9" LIFTS. THE EXISTING GRADE AND THE SURFACE OF EACH LIFT SHALL BE SCARIFIED PRIOR TO THE PLACEMENT OF THE NEXT LIFT.
- 3. EMBANKMENT FILL SHALL BE COMPACTED TO 90%-95% STANDARD PROCTOR COMPACTION STORMWATER TREATMENT BASIN EMBANKMENT FILL SECTION DETAIL

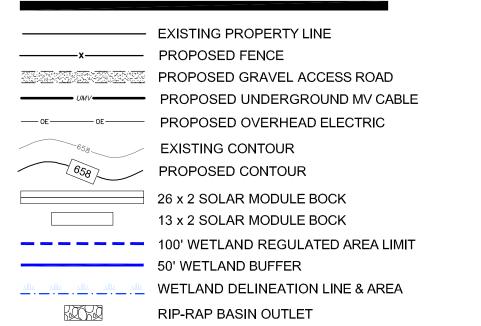
NOT TO SCALE CLA Engineers, Inc. CIVIL · STRUCTURAL · SURVEYING UPDATES AND REVISIONS PER ($\frac{3}{2}$ $\frac{5/22}{20}$ 2 317 Main Street Norwich, Connecticut $\frac{2}{1}$ $\frac{4}{1/20}$ REVISED (860) 886-1966 Fax (860) 886-9165 No. Date Revision Project No. 31 BENZ STREET CLA-6430 ANSONIA, CT 06401 Proj. Engineer E.M.B. BENZ STREET SOLAR Date: 2/11/2020 Sheet No. 5 **GRADING PLAN : BASIN #1**



LEGEND:

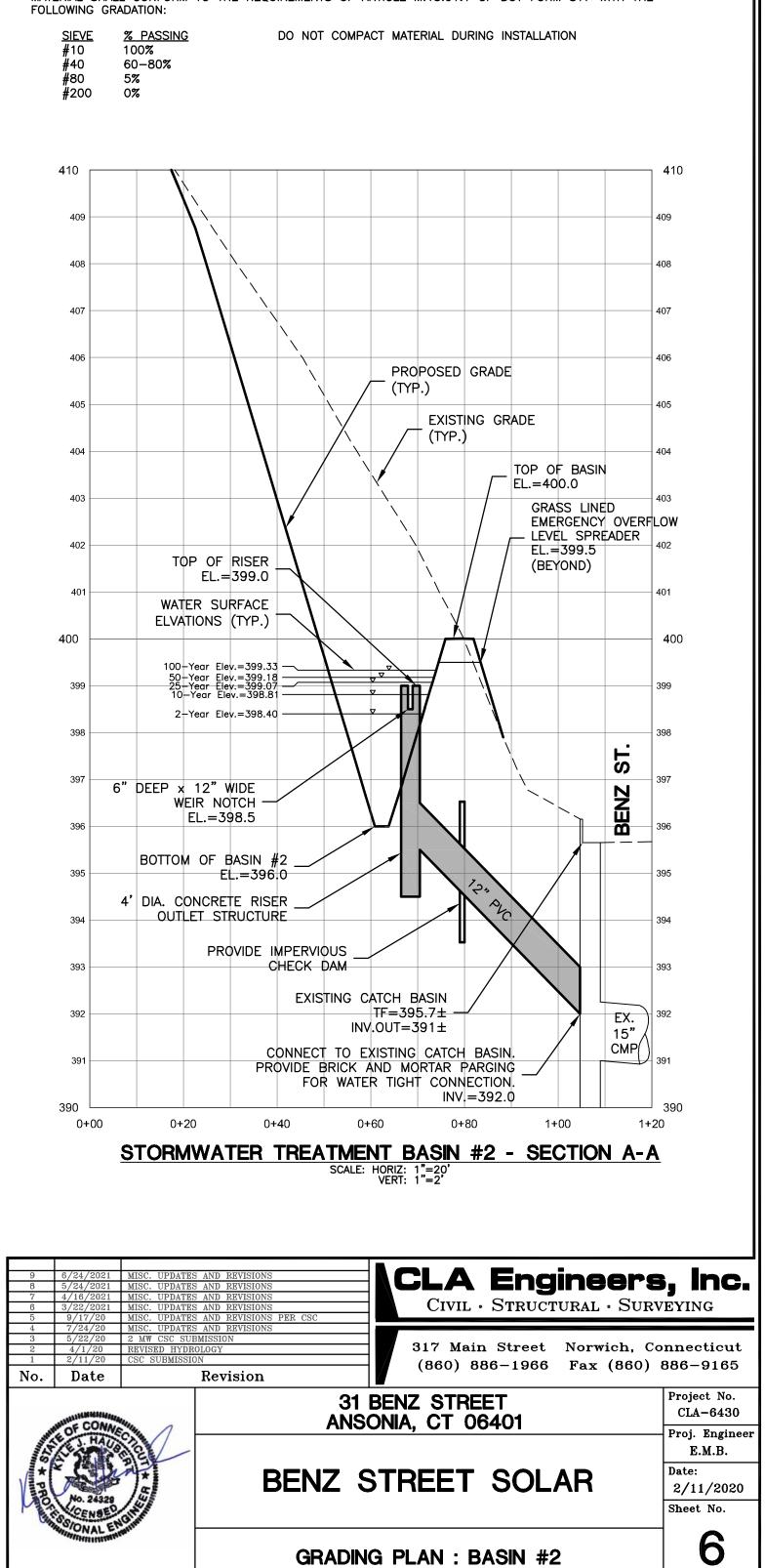
4.06

7.07



SEED MIX FOR STORMWATER TREATMENT BASIN SEE SHEET 7 - LANDSCAPE PLAN FOR SEED MIX SPECIFICATIONS

PERVIOUS TOPSOIL MIX FOR STORMWATER TREATMENT BASINS. THE FOLLOWING PERVIOUS TOPSOIL MIX SHALL BE USED IN THE STORMWATER TREATMENT BASINS. THE MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE M.13.01.1 OF DOT FORM 817 WITH THE



SEE SHEET 10 FOR -ROCK / LEDGE MANAGEMENT AND STABILIZATION PLAN -(TYP.)

10'-0" SPACING CENTER-TO-CENTER (TYP.)

PLANT ARBORVITAE TYPE TREES (10'-0" · CENTER ON CENTER SPACING) AT A 10'-0" SETBACK FROM THE PROPERTY LINE.

CLA

LEGEND:

	EXISTING PROPERTY
x	PROPOSED FENCE
	PROPOSED GRAVEL A
UMV	PROPOSED UNDERGE
OE OE	PROPOSED OVERHEA
658	EXISTING CONTOUR
658'	PROPOSED CONTOUR

SEED LEGEND:

STORMWAT
EROSION CO
SOLAR ARR

THE NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES CONTAINS A SELECTION OF NATIVE GRASSES AND WILDFLOWERS DESIGNED TO COLONIZE RECENTLY DISTURBED SITES WHERE QUICK GROWTH OF VEGETATION IS DESIRED TO STABILIZE THE SOIL SURFACE. IT IS AN EXCELLENT SEED MIX FOR ECOLOGICALLY APPROPRIATE RESTORATIONS ON MOIST SITES THAT REQUIRE QUICK STABILIZATION AS WELL AS LONG-TERM ESTABLISHMENT OF NATIVE VEGETATION. THIS MIX IS PARTICULARLY APPROPRIATE FOR DETENTION BASIS THAT DO NOT NORMALLY HOLD STANDING WATER. SOME PLANTS IN THIS MIX CAN TOLERATE INFREQUENT INUNDATION, BUT NOT CONSTANT FLOODING.

SEEDING: THE MIX MAY BE APPLIED BY HYDROSEEDING, BY MECHANICAL SPREADER, BY HYDRO-SEEDING OR ON SMALL SITES IT CAN BE SPREAD BY HAND. WHEN APPLYING ON BARE SOIL, RAKE THE SOIL TO CREATE GROOVES, APPLY SEED, THEN LIGHTLY RAKE OVER. IN NEW ENGLAND, THE BEST RESULTS ARE OBTAINED WITH A SPRING OR EARLY FALL SEEDING. SUMMER AND LATE FALL SEEDING WILL BENEFIT WITH A LIGHT MULCHING OF WEED-FREE STRAW TO CONSERVE MOISTURE. LATE FALL AND WINTER DORMANT SEEDING REQUIRE A SLIGHT INCREASE IN THE SEEDING RATE. FERTILIZATION IS NOT REQUIRED UNLESS THE SOILS ARE PARTICULARLY INFERTILE.

APPLICATION RATE: 35 LBS/ACRE (1250 SQ. FT./LB.)

SPECIES *: SWITCHGRASS (PANICUM VIRGATUM), VIRGINIA WILD RYE (ELYMUS VIRGINICUS), CREEPING RED FESCUE (FESTUCA RUBRA), FOX SEDGE (CAREX VULPINOIDEA), CREEPING BENTGRASS (AGROSTIS STOLONIFERA), SOFT RUSH (JUNCUS EFFUSUS), NEW ENGLAND ASTER (ASTER NOVAE-ANGLIAE), GRASS-LEAVED GOLDENROD (EUTHAMIA GRAMINIFOLIA), GREEN BULRUSH (SCIRPUS ATROVIRENS), BONESET (EUPATORIUM PERFOLIATUM), BLUE VERVAIN (VERBENA HASTATA) UPLAND BENTGRASS (AGROSTIS PERENNANS), BIG BLUESTEM, NIAGRA (ANDROPOGON GERARDII), SENSITIVE FERN (ONOCLEA SENSIBILIS), LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM), WOOLGRASS (SCIRPUS CYPERINUS).

SEEDING NOTES:

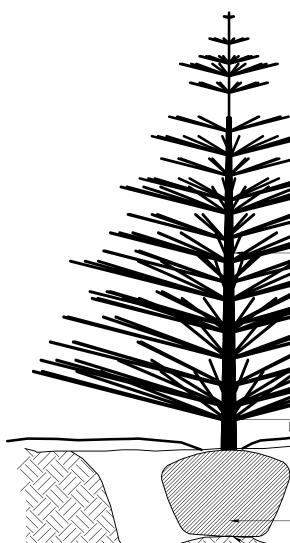
1. THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS ASSOCIATED WITH TREE AND ROCK REMOVAL AND SITE CLEARING. CONTRACTOR SHALL A INSTALL A 50% / 50% CLOVER / FESCUE MIX OR ENGINEER APPROVED ALTERNATE SEED MIXTURE.

2. ALL SEDIMENT TRAP SIDE SLOPES ARE 3:1 AND SHALL BE SEEDED AND BLANKETED

PERVIOUS TOPSOIL MIX FOR STORMWATER TREATMENT BASINS:

THE FOLLOWIN MATERIAL SHAL FOLLOWING GR	L CONFORM	
<u>SIEVE</u> #10 #40 #80 #200	<u>% PASSING</u> 100% 60-80% 5% 0%	DC

ARBORVITAE TREE DETAIL:



PLANT ARBORVITAE TYPE TREES 10'-0" APART (CENTER-TO-CENTER) OFFSET FROM THE PROPERTY LINE FROM ABUTTING PROPERTIES

MIN. 10'-0" SPACING CENTER-TO-CENTER (TYP.)

±9.0 ACRE SITE CLEARING LIMITS

199889999999999999

EROSION CONTROL BLANKET

245 ARBORVITAE TREES - 6' - 8' HEIGHT AT PLANTING

PLANT ARBORVITAE TYPE TREES (10'-0" CENTER ON CENTER SPACING) AT A 25'-0" SETBACK FROM BENZ STREET TO CREATE VISUAL SCREENING FOR NEIGHBORS.

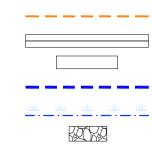
60'

120'

STORMWATER TREATMENT BASIN SEED MIX

' LINE

ACCESS ROAD GROUND MV CABLE AD ELECTRIC



---- PROPOSED CLEARING LIMITS 26 x 2 SOLAR MODULE BOCK 13 x 2 SOLAR MODULE BOCK ---- 100' WETLAND REGULATED AREA LIMIT **RIP-RAP BASIN OUTLET**

TER BASIN SEED MIX (AREA = 0.45 AC)

CONTROL BLANKET WITH SEED (AREA = 1.65 AC) RAY SEEDING / HAY MULCH EROSION CONTROL (AREA = 7.9 AC)

SEED MIX FOR STORMWATER TREATMENT BASINS:

SHALL BE USED IN THE STORMWATER TREATMENT BASINS. THE IREMENTS OF ARTICLE M.13.01.1 OF DOT FORM 817 WITH THE

DO NOT COMPACT MATERIAL DURING INSTALLATION

			out misdire leaders intc	acted branches act			
		plant	pits – do r	f specified mulch over not pile against trunk			
2 X Ball Diameter		— Backfil	l plant pit	with specified backfill	soil		
		-		bottom of hole			
			to America nimum ball	n Standard for Nurser size.	y Stock		
		Set ro compo	ot ball on Icted soil m	atering basin undisturbed subsoil or nound matching trees e with finished site gro			
	9 8 7 6 5 4	6/24/2021 5/24/2021 4/16/2021 3/22/2021 9/17/20 7/24/20	MISC. UPDATES MISC. UPDATES MISC. UPDATES MISC. UPDATES MISC. UPDATES	S AND REVISIONS S AND REVISIONS S AND REVISIONS PER CSC S AND REVISIONS		• STRUCTURAL •	Brs, Inc. Surveying
	3 2 1	5/22/20 4/1/20 2/11/20	2 MW CSC SUI REVISED HYDR CSC SUBMISSIO	OLOGY		n Street Norwic 186–1966 Fax (
	No.	Date			31 BENZ STRE NSONIA, CT 0		Project No. CLA-6430 Proj. Engineer
	ALS * PROFY	No. 24329 CENSE STONAL		BENZ	STREET	SOLAR	E.M.B. Date: 2/11/2020 Sheet No.
		MINIMUM			LANDSCAPE P	PLAN	7



KOP 4 - MIDDLE OF SITE LOOKING EAST



KOP 5 - EASTERN MIDDLE OF SITE LOOKING SOUTH



KOP 6 - SOUTH WEST OF SITE LOOKING EAST





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KOP 3

KOP 4

KOP 5

KOP 6

KOP 1

KOP 2



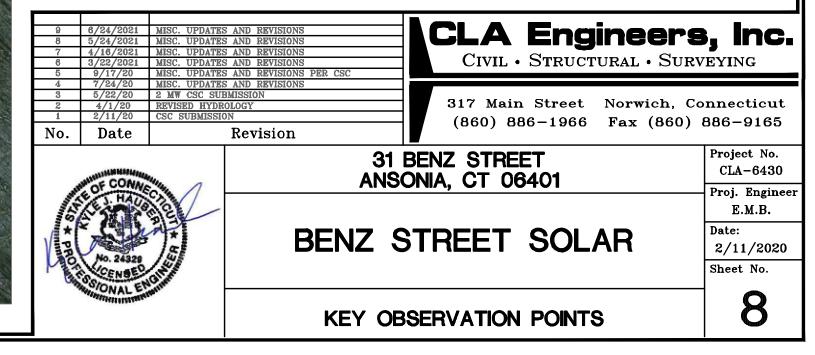
KOP 3 - NORTHERN SITE, LOOKING SOUTH-EAST

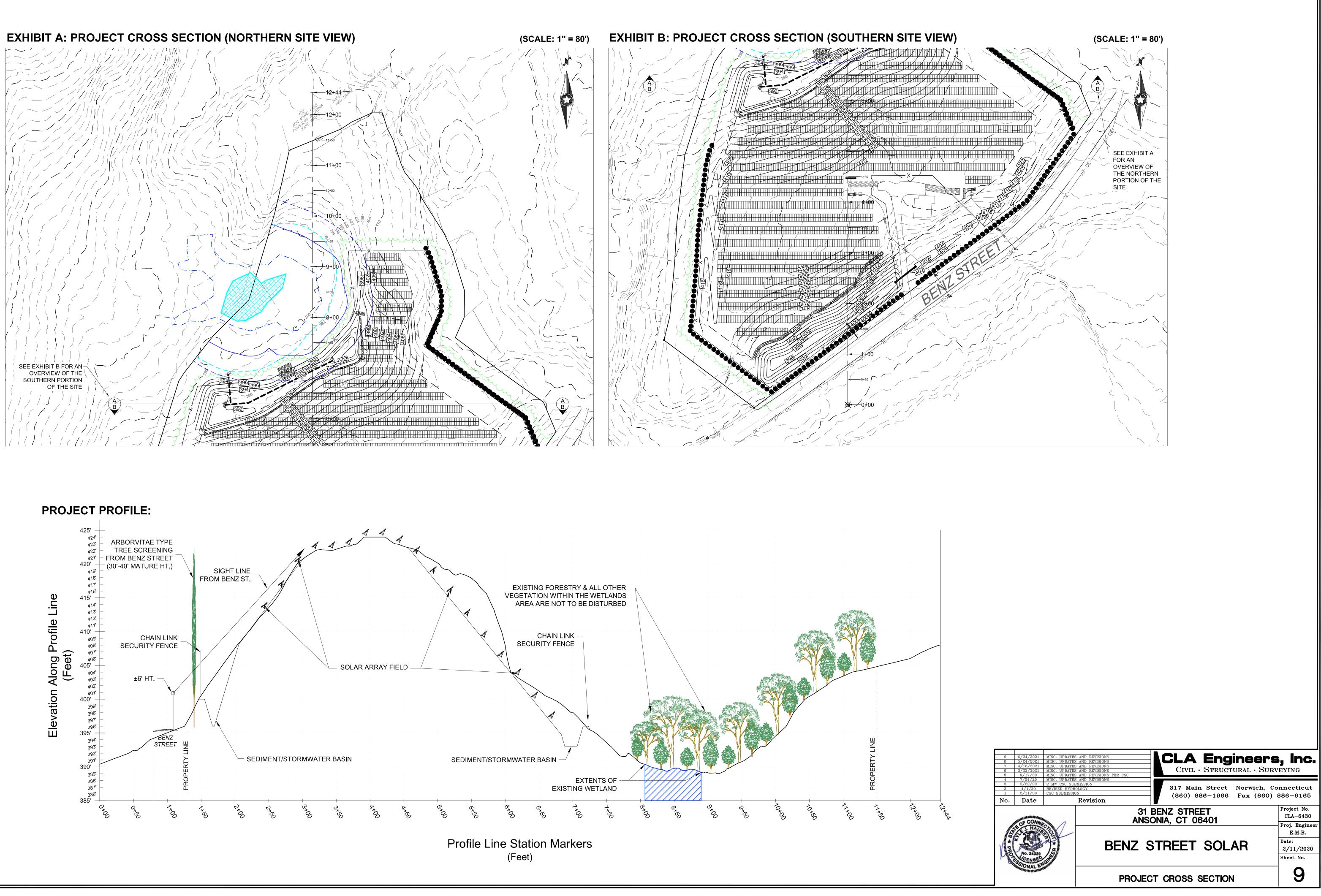


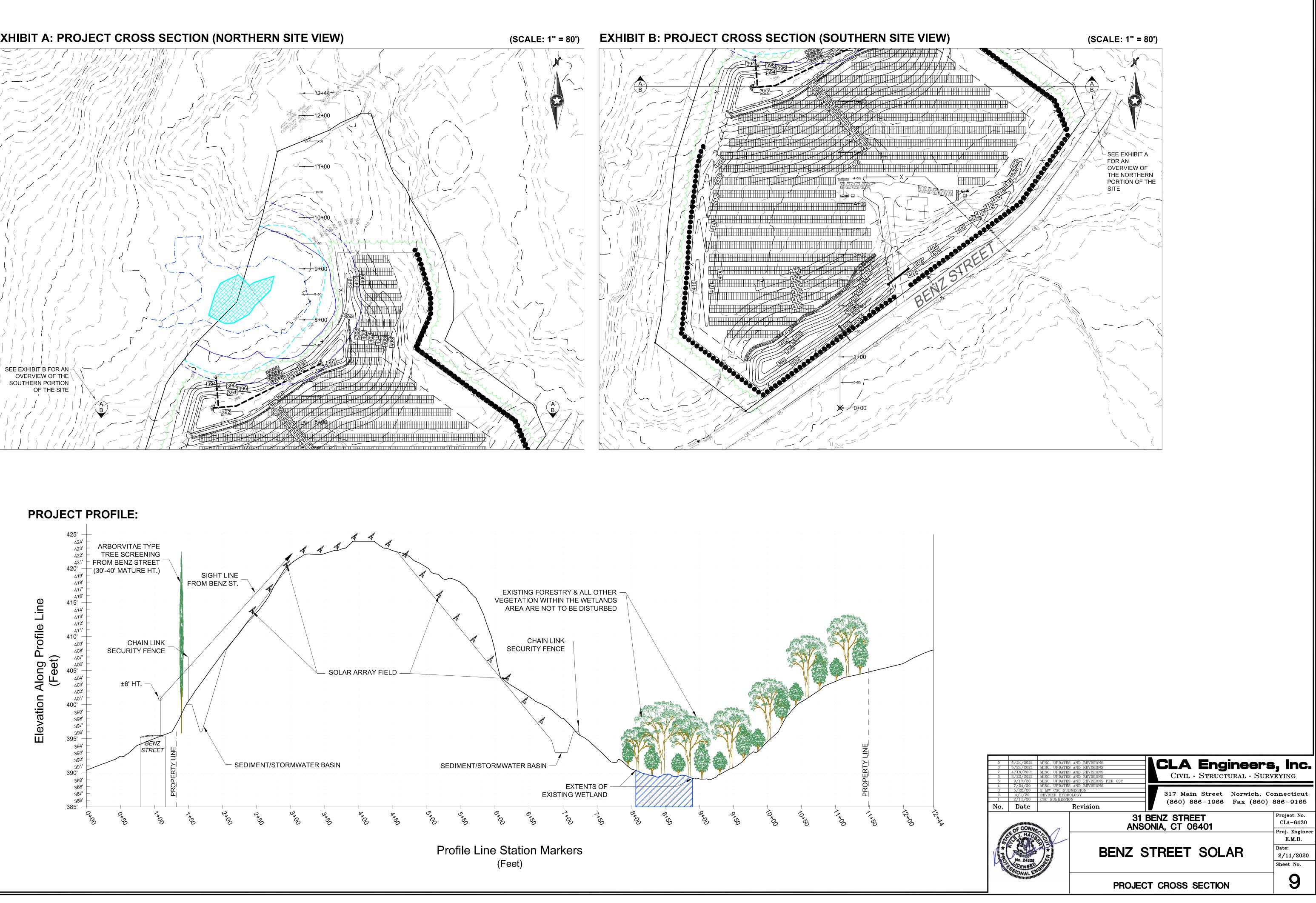
KOP 2 - BENZ STREET LOOKING NORTH



KOP 1 - SOUTH OF BENZ STREET LOOKING NORTH-WEST







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ROAD	DESIGN	PARAMETERS

1. ROAD MAINTENANCE CAN BE EXPECTED OVER THE LIFE OF THE PERMANENT FACILITY.

SPECIAL PROVISIONS FOR GRADING AND EROSION CONTROL

THE CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES AS PLANNED AND SPECIFIED FOLLOWING BEST MANAGEMENT PRACTICES AS OUTLINED BY THE STATE OF CONNECTICUT AND BEING IN CONFORMANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL STORMWATER PERMIT. SEE THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR EROSION CONTROL AND RESTORATION SPECIFICATIONS. UNLESS OTHERWISE NOTED OR MODIFIED HEREIN, ALL SECTIONS OF THE GENERAL CONDITIONS SHALL APPLY.

EXECUTION

- 1. CLEARING AND GRUBBING
- A. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL TREES, STUMPS, BRUSH, AND DEBRIS WITHIN THE GRADING LIMITS SHOWN ON THE PLANS. THE CONTRACTOR IS TO REMOVE ONLY THOSE TREES WHICH ARE DESIGNATED BY THE OWNER'S REPRESENTATIVE FOR REMOVAL, AND SHALL EXERCISE EXTREME CARE AROUND EXISTING TREES TO BE SAVED.
- 2. TOPSOIL STRIPPING
- A. TOPSOIL SHALL BE STRIPPED FROM ALL ROADWAY AREAS THROUGH THE ROOT ZONE. TOPSOIL SHALL NOT BE STRIPPED OUTSIDE OF THE DESIGNATED DISTURBANCE AREAS. B. ANY TOPSOIL, THAT HAS BEEN STRIPPED, SHALL BE RE-SPREAD OR STOCKPILED WITHIN GRADING AREAS AND/OR USED AS FILL OUTSIDE OF THE DISTURBANCE AREAS, AS
- DIRECTED BY THE ENGINEER.
- 3. EMBANKMENT CONSTRUCTION. A. EMBANKMENT CONSTRUCTION SHALL CONSIST OF THE PLACING OF SUITABLE FILL MATERIAL, AFTER TOPSOIL STRIPPING, ABOVE THE EXISTING GRADE. GENERALLY, EMBANKMENTS SHALL HAVE COMPACTED SUPPORT SLOPES OF TWO AND A HALF FEET HORIZONTAL TO ONE FOOT VERTICAL. THE MATERIAL FOR EMBANKMENT CONSTRUCTION SHALL BE OBTAINED FROM THE ACCESS ROAD EXCAVATION (SEE GEOTECHNICAL REPORT FOR RESTRICTIONS), OR ANY SUITABLE, APPROVED SOIL OBTAINED OFFSITE BY CONTRACTOR, AS DIRECTED OR APPROVED BY THE ENGINEER. THIS MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 9".
- B. SIDE SLOPES GREATER THAN 2.5:1 WILL NOT BE PERMITTED, UNLESS OTHERWISE NOTED ON THE PLAN.

TESTING REQUIREMENTS:

- 1. TESTING SHALL BE PERFORMED BY A DESIGNATED INDEPENDENT TESTING AGENCY 2. SUBMIT TESTING AND INSPECTION RECORDS SPECIFIED TO THE CIVIL ENGINEER OF RECORD FOR REVIEW.
- A. THE ENGINEER WILL REVIEW THE TESTING AND INSPECTION RECORDS TO CHECK CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS. THE ENGINEER'S REVIEW DOES NOT RELIEVE THE CONSTRUCTION CONTRACTOR FROM THE RESPONSIBILITY FOR CORRECTING DEFECTIVE WORK. 3. PROOF ROLLING:
- A. PROOF-ROLLING SHALL BE PERFORMED IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER OR QUALIFIED GEOTECHNICAL REPRESENTATIVE USING A FULLY LOADED TANDEM AXLE DUMP TRUCK WITH A MINIMUM GROSS WEIGHT OF 25 TONS OR A FULLY LOADED WATER TRUCK WITH AN EQUIVALENT AXLE LOADING. PROOF-ROLLING ACCEPTANCE STANDARDS INCLUDE NO RUTTING GREATER THAN 1.5 INCHES, AND NO "PUMPING" OF THE SOIL BEHIND THE LOADED TRUCK.
- 4. SIEVE ANALYSIS: A. SIEVE ANALYSIS SHALL BE CONDUCTED IN ACCORDANCE WITH AASHTO T27
- 5. PROCTOR: A. PROCTORS SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D-1557 6. ATTERBERG LIMITS:
- A. ATTERBERG LIMITS SHALL BE DETERMINED IN ACCORDANCE WITH AASHTO T89 AND T90
- 7. MOISTURE DENSITY (NUCLEAR DENSITY): A. MOISTURE DENSITY TESTING SHALL BE DONE IN ACCORDANCE WITH AASHTO T310

SUBGRADE COMPACTION. TEST ROLLING AND AGGREGATE BASE COMPACTION:

- 1. FILL MATERIAL: A. SOILS USED AS FILL MATERIAL SHALL BE TESTED FOR GRAIN SIZE ANALYSIS, MOISTURE CONTENT, ATTERBERG LIMITS ON FINES CONTENT, AND PROCTOR TESTS (MODIFIED DRY MAXIMUM DENSITY).
 - a. FOR PLACED & COMPACTED FILLS, PROVIDE ONE COMPACTION TEST PER LIFT FOR EVERY 1000 FT OF ROAD LENGTH. INCLUDE THE LOCATION, DRY DENSITY, MOISTURE CONTENT, AND COMPACTION PERCENT BASED ON MODIFIED PROCTOR MAXIMUM DRY DENSITY.
- B. IN ROADWAY CUT AREAS, OR WHERE EMBANKMENT CONSTRUCTION REQUIRES LESS THAN 12 INCHES OF FILL PLACEMENT, COMPACT TO A MINIMUM OF 95 PERCENT OF THE MATERIAL'S MODIFIED PROCTOR MAXIMUM DRY DENSITY.
- 2. COMPACTED SUBGRADE:
- A. THE ENTIRE SUBGRADE SHALL BE PROOF-ROLLED PRIOR TO THE PLACEMENT OF THE AGGREGATE BASE TO IDENTIFY AREAS OF UNSTABLE SUBGRADE. B. IF PROOF ROLLING DETERMINES THAT THE SUBGRADE STABILIZATION CANNOT BE
- ACHIEVED, THE FOLLOWING ALTERNATIVES WILL BE IMPLEMENTED: REMOVE UNSUITABLE MATERIAL AND REPLACE WITH SUITABLE EMBANKMENT.
- b. SCARIFY, DRY, AND RECOMPACT SUBGRADE AND PERFORM ADDITIONAL PROOF ROLL. INCREASE ROAD BASE THICKNESS.
- C. PROVIDE 1 MOISTURE DENSITY COMPACTION TESTS FOR EVERY 1000 L.F. OF ROAD LENGTH. COMPACTED SUBGRADE MUST BE COMPACTED TO A MINIMUM OF 95% MODIFIED PROCTOR MAXIMUM DRY DENSITY AT ±3% OF OPTIMUM MOISTURE CONTENT FOR GRANULAR SOILS AND AT -1 TO +3% OF OPTIMUM MOISTURE CONTENT FOR COHESIVE SOILS.

3. AGGREGATE BASE:

- A. AGGREGATE BASE SHALL BE PROOF-ROLLED OVER THE ENTIRE LENGTH. PROVIDE 1 SIEVE ANALYSIS PER 2500 CY OF ROAD BASE PLACED. a. IF PROOF ROLLING DETERMINES THAT THE ROAD IS UNSTABLE, ADDITIONAL
 - AGGREGATE SHALL BE ADDED UNTIL THE UNSTABLE SECTION IS ABLE TO PASS A PROOF ROLL.

TABLE 1: TESTING SCHEDULE SUMMARY					
LOCATION	TEST	FREQUENCY			
STRUCTURAL FILL	GRAIN SIZE ANALYSIS, MOISTURE CONTENT, ATTERBERG LIMITS ON FINES CONTENT, AND PROCTOR	1 PER MAJOR SOIL TYPE			
	MOISTURE DENSITY	1 PER 2,000 CY OR MIN. 1 PER LIFT			
COMPACTED	PROOF-ROLL	ENTIRE LENGTH			
SUBGRADE	MOISTURE DENSITY TEST (NUCLEAR DENSITY)	1 PER 1,000 FT OR MIN. 5 FOR THE SITE			
AGGREGATE BASE	PROOF-ROLL	ENTIRE LENGTH			
	SIEVE ANALYSIS	1 PER 2,500 CY			

GENERAL NOTES

- THE PLANIMETRIC FEATURES, GROUND SURFACE CONTOURS ON A LIDAR SURFACE PROVIDED NOAA.
- 2. NO GRADING OR SOIL DISTURBANCE IS PERMITTED OUTSIDE OF THE GRADING LIMITS IDENTIFIED ON THE PLANS.
- BY THE ENGINEER.
 - ACTIVITIES COMMENCE.
 - CONSTRUCTION COMMENCING.
 - LOCATIONS.
 - STORMWATER POLLUTION PREVENTION PLAN (SWPCP)

 - CONNETICUT, THE EPA, AND THE SWPCP ON FILE.

SLOPE STABILIZATION:

ALL AREAS DESIGNATED ON THE PLAN FOR SLOPE STABILIZATION SHALL BE GRADED AND COMPACTED, SMOOTH AND CLEAN TO THE FINISH CONTOURS SHOWN ON THE PLAN, WITH A MINIMUM OF 4 INCHES OF TOPSOIL PLACED ON THE AREA. STABILIZATION SHALL BE ACHIEVED IN ONE OF TWO MANNERS:

EITHER: 1) HAND-PLACED RIPRAP

> OR. 2) SEED WITH EROSION CONTROL AND REVEGITATION MAT (ECRM)

1. PLACEMENT OF RIP-RAP

THE FINISHED SURFACE OF THE RIPRAP SHALL PRESENT AN EVEN, TIGHT SURFACE, NOT LESS THAN 12 INCHES THICK. MEASURED PERPENDICULAR TO THE SLOPE.

THE STONES WEIGHING MORE THAN 100 LB. SHALL BE WELL DISPERSED THROUGHOUT THE AREA WITH THE 50-100 LB. STONES LAID BETWEEN THEM IN SUCH A MANNER THAT ALL STONES WILL BE IN CLOSE CONTACT. THE REMAINING VOIDS SHALL BE FILLED WITH SPALLS OF SUITABLE SIZE AND WELL TAMPED TO PRODUCE A FIRM AND COMPACT REVETMENT.

2) SEED AND MULCH AREA. USE SEED MIX APPROVED BY THE ENGINEER.

3) INSTALL ECRM PER MANUFACTURER'S INSTRUCTIONS, HOWEVER THESE MUST INCLUDE THE FOLLOWING MINIMUM REQUIREMENTS:

WITH THE SOIL SURFACE.

B) DIG MAT ANCHOR TRENCHES (MINIMUM 12"DEEP, 6" WIDE) AT TERMINAL ENDS AND PERIMETER SIDES WHERE MAT IS TO BE INSTALLED.

C) INSTALL MAT BY ROLLING UPHILL PARALLEL TO WATER FLOW, STARTING AT TRENCH. OVERLAP ROLLS BY MINIMUM OF 3". FASTEN TO GROUND WITH 18" PINS AND 1 1/2" WASHERS, OR EQUIVALENT. PIN MAT AT ENDS, AND EVERY 3' TO 5' ALONG OVERLAPS. DO NO STRETCH MAT. SPLICING ROLLS SHOULD BE DONE IN A CHECK SLOT. BACKFILL TO COVER ENDS AND FASTENERS, ROLLING MAT ACROSS BACKFILL AND PIN AGAIN.

FOR MAT USE MIRAFI MIRAMAT TM8 OR EQUIVALENT.

INVASIVE SPECIES:

- APPROVED.

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SEDIMENTATION AND EROSION CONTROL PLAN

3. GRADE ALL PROPOSED ROADS TO THE SLOPES PROPOSED ON THE PLANS. 4. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE THROUGHOUT THE CONSTRUCTION OF THIS PROJECT. CONSTRUCTION ACTIVITIES SHALL NOT BLOCK THE NATURAL OR MANMADE CREEKS OR DRAINAGE SWALES CAUSING RAINWATER TO POND. ADDITIONAL CULVERTS IN EXCESS OF THOSE ON THE PLANS MAY BE REQUIRED AS APPROVED

5. THE CONTRACTOR SHALL NOTIFY DIGSAFE AT LEAST 48 HOURS BEFORE EXCAVATION

6. WETLAND INFORMATION SHOWN ON THE PLAN WAS PROVIDED BY GODFREY, HOFFMAN, AND LODGE, LLC AND FLAGGED BY MATHEW DAVISON. THE GENERAL CONTRACTOR SHALL VERIFY THAT ALL WETLAND PERMITS HAVE BEEN SUBMITTED AND APPROVED PRIOR TO

7. ELECTRICAL COLLECTION SYSTEM SHOWN ON THE PLAN SHALL BE CONSIDERED PRELIMINARY CONTRACTOR SHALL REFER TO FINAL ELECTRICAL DESIGN PLANS FOR ACTUAL DESIGN

1. REFER TO THE SWPPP BOOKLET FOR SEDIMENT AND EROSION CONTROL PROCEDURES, LOCATIONS OF BMPs, DETAILS, AND INSPECTION INFORMATION.

2. ALL AREAS DISTURBED DURING CONSTRUCTION ACTIVITIES AND NOT COVERED BY ROAD SURFACING MATERIALS, SHALL BE SEEDED IN ACCORDANCE WITH THE SWPPP PLAN. 3. TEMPORARY EROSION CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE TEMPORARY EROSION CONTROL PLAN SHALL BE IN ACCORDANCE WITH STATE OF

RIPRAP HAND PLACED. HAND-PLACED RIPRAP SHALL CONSIST OF ROUGH UNHEWN QUARRY STONES, APPROXIMATELY RECTANGULAR, PLACED DIRECTLY ON THE SPECIFIED SLOPES OR SURFACES. IT SHALL BE SO LAID THAT THE WEIGHT OF THE LARGE STONES IS CARRIED BY THE SOIL RATHER THAN BY ADJACENT STONES. STONES SHALL WEIGH BETWEEN 50 AND 150 LB. EACH AND AT LEAST 60 % OF THEM SHALL WEIGH MORE THAN 100 LB. EACH WHEN USED ON EMBANKMENT CONSTRUCTION. RIP RAP FOR BMPS SHALL BE 6"-8" DIA. PREPARATION FOR

HAND-PLACED RIP RAP. BEFORE ANY RIP RAP IS PLACED, THE SURFACE TO BE COVERED SHALL BE FULLY COMPACTED AND GRADED TO THE REQUIRED SLOPE. PLACE MIRAFITM8 OR APPROVED EQUAL GEOTEXTILE ON SLOPE. RIP RAP ON SLOPES SHALL COMMENCE COMMENCE IN A TRENCH BELOW THE TOW OF THE SLOPE AND SHALL PROGRESS UPWARD, EACH STONE BEING LAID BY HAND PERPENDICULAR TO THE SLOPE WITH THE LONG DIMENSION VERTICAL, FIRMLY BEDDED AGAINST THE SLOPE AND AGAINST THE ADJOINING STONE. WITH ENDS IN CONTACT. AND WITH WELL-BROKEN JOINTS. SIMILAR METHODS SHALL BE USED WHEN LAYING RIPRAP ON STREAM BEDS, IN DITCHES, AND ON LEVEL SURFACES.

2. STABILIZATION WITH EROSION CONTROL AND REVEGITATION MAT (ECRM) 1) AREA MUST BE GRADED SMOOTH AND CLEAN TO FINISH GRADES, AND COMPACTED.

> A) GRADE GROUND TO FINISH CONTOURS. REMOVE ALL ROCKS, DIRT CLODS, STUMPS, ROOTS, TRASH, AND OTHER OBSTRUCTIONS LYING IN DIRECT CONTACT

1. ALL EQUIPMENT SHALL BE INSPECTED UPON ARRIVAL. EQUIPMENT ARRIVING WITH OBSERVABLE SOIL OR PLANT FRAGMENTS WILL BE REMOVED AND CLEANED. 2. STRAW BALES ARE NOT BE USED ON SITE; ONLY WEED-FREE STRAW BALES ARE

3. OFF-SITE TOPSOIL MUST BE FREE OF INVASIVE SPECIES. THE ENGINEER SHALL BE NOTIFIED OF THE TOPSOIL SOURCE 6 WEEKS BEFORE DELIVERY.

CONTACT: STEVE BROYER ECOS ENERGY 222 SOUTH 9TH STREET SUITE 1600 MINNEAPOLIS MN 55402

THE PURPOSE OF THIS PROJECT IS TO INSTALL APPROXIMATELY 6136 SOLAR MODULE ASSCOCIATED ELECTICAL EQUIPMENT FOR POWER GENERATION.

THE TOTAL AREA OF THE PROJECT SITE IS APPROXIMATELY 12.7 ACRES AND THE TOTA THE SITE THAT IS EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES IS 10.7

THE EROSION & SEDIMENTATION CONTROL PLAN AND DETAILS HAVE BEEN DEVELOPEI STRATEGY TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER CON THIS PLAN IS BASED ON THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND CONTROL" BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN CC WITH THE CONNECTICUT DEEP.

IN THE AREAS OF SOLAR PANEL INSTALLATION, THERE ARE SEVERAL ACTIVITIES (SITE FOOTING INSTALLATION, PANEL INSTALLATION, AND ELECTRICAL TRENCH WORK) THAT SOIL. SOIL MUST BE PROMPTLY STABILIZED AFTER EACH ACTIVITY.

THIS PROJECT WILL NOT BE PHASED. THE DEVELOPMENT WILL FOLLOW THE CONSTRU SEQUENCE PROVIDED ON THIS PLAN.

THE PROPOSED LOCATIONS OF SILTATION AND EROSION CONTROL MEASURES ARE SH PLANS. THE CONTRACTOR SHALL PROVIDE SILT FENCE, HAY BALES, EROSION MAT, ST DAMS, A CONSTRUCTION ENTRANCE, AND/OR OTHER EROSION CONTROL MEASURES DIRECTED BY THE ENGINEER OR TOWN STAFF TO ADEQUATELY PREVENT SEDIMENT T

EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO S DISTURBANCE.

THE CONTRACTOR SHALL INSPECT, REPAIR AND/OR REPLACE EROSION CONTROL MEA 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT. SE DEPOSITS MUST BE REMOVED BEFORE DEPOSITS REACH APPROXIMATELY ONE HALF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTA CONTRACTOR UNTIL AREAS UPSLOPE ARE PERMANENTLY STABILIZED.

STAKED HAY BALE SILT BARRIERS OR SILT FENCE SHALL BE INSTALLED AROUND ANY TEMPORARYSTOCKPILE AREAS. TEMPORARY VEGETATIVE COVER MAY BE REQUIRED

CONTINUOUS DUST CONTROL USING WATER OR APPROVED EQUAL SHALL BE PROVIDE EARTH STOCKPILES, EARTH PILED ALONG EXCAVATIONS, SURFACES OF BACKFILLED T GRAVELED ROADWAY SURFACES. THE USE OF CALCIUM CHLORIDE FOR DUST CONTROL BE ALLOWED.

IF DEWATERING IS NECESSARY DURING ANY TIME OF CONSTRUCTION A CLEAR WATER SHALL BE PROVIDED AS SHOWN IN THE HAY-BALE BARRIER DEWATERING DETAIL OR AL METHOD PROPOSED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

ALL DISTURBED AREAS SHALL BE RESTORED PER THE SLOPE STABILIZATION AND PER VEGETATION DETAILS. ALL DISTURBED AREAS THAT ARE SLOPED LESS THAN THREE F ONE VERTICAL (3:1) SLOPE SHALL BE LOAMED, SEEDED, FERTILIZED AND MULCHED PE PERMANENT VEGETATIVE COVER SPECIFICATIONS. EROSION CONTROL MATTING SHA PROVIDED ON ALL DISTURBED AREAS THAT ARE SLOPED MORE THAN THREE HORIZON VERTICAL (3:1).

IF FINAL SEEDING OF DISTURBED AREAS IS NOT TO BE COMPLETED BEFORE OCTOBER CONTRACTOR SHALL PROVIDE TEMPORARY MULCHING (DORMANT SEEDING MAY BE A WELL) TO PROTECT THE SITE AND DELAY PERMANENT SEEDING.

WHEN FEASIBLE, TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN F GRADED SHALL BE COMPLETED PRIOR TO OCTOBER 15.

ON EACH FRIDAY AND ALSO ON THE DAY BEFORE ANY RAIN FORECAST OF 0.5 INCHES CONTRACTOR SHALL HAY MULCH ALL EXPOSED SOIL.

ANY EROSION WHICH OCCURS WITHIN THE DISTURBED AREAS SHALL BE IMMEDIATELY AND STABILIZED. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT SHAL RETURNED TO THE SITE. POST SEEDING, INTERCEPTED SEDIMENT, IF ANY, SHALL BE D IN A MANNER APPROVED BY THE TOWN AND ENGINEER.

EROSION AND SEDIMENTATION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL VI RE-ESTABLISHED OR SLOPES ARE STABILIZED AND REMOVAL IS APPROVED BY THE EN

UNFORESEEN PROBLEMS WHICH ARE ENCOUNTERED IN THE FIELD SHALL BE SOLVED TO THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH CONNECTICUT DEEP.

THE CONTRACTOR SHALL PROVIDE THE NAME AND EMERGENCY CONTACT INFORMATIC PROJECT PERSONNEL RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROLS P START OF CONSTRUCTION.

THE OWNER WILL EMPLOY A CERTIFIED SOIL SCIENTIST TO PERFORM WEEKLY EROSIO SEDIMENTATION CONTROL INSPECTION.

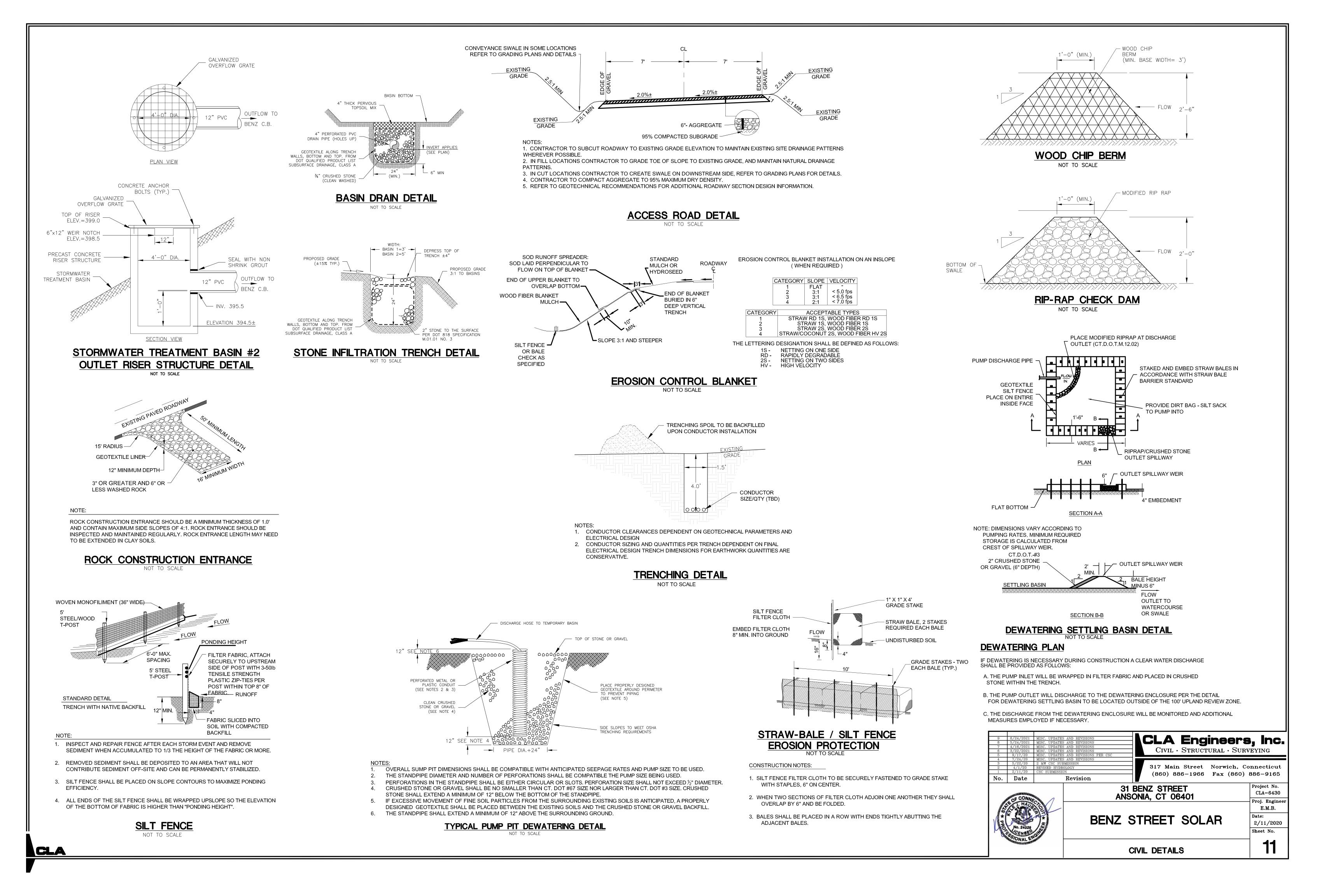
ROUTINE REPAIRS OR MODIFICATIONS SHALL BE COMPLETED BY THE CONT WITHIN 48 HOURS AFTER DIRECTION BY THE INSPECTOR. EMERGENCY REPAIRS SHALL BE COMPLETED IMMEDIATELY UPON DIRECTION INSPECTOR.

THE WETLANDS ENFORCEMENT OFFICER SHALL BE NOTIFIED AT LEAST 2 BUSINESS DA CONSTRUCTION TO INSPECT EROSION CONTROLS.

STATE AND FEDERAL PERMITS REQUIRED: THIS PROJECT REQUIRES A PERMIT FROM CONNECTICUT SITING COUNCIL.

THE FOLLOWING DOCUMENTS ARE CONSIDERED TO BE PART OF THIS EROSION AND SE CONTROL PLAN: THE COMPLETE SITE PLANS, THE DRAINAGE NARRATIVE PREPARED B' ENGINEERS, AND THE CTDEEP 2002 MANUAL.

		STRUCTION SEQUENCE PRIOR TO THE COMMENC	CEMENT OF ANY CONSTRUCTION ACTIVITY AT THE SITE, APPLICAN	T BENZ
	1.	SOLAR LLC SHALL		
		CONNECTION OF BASIN	SIGNED LETTER FROM THE CITY OF ANSONIA AUTHORIZING THE N NUMBER 2 (STORMWATER TREATMENT BASIN #2 OUTLET RISER I CONSTRUCTION DOCUMENTS) WITH THE CITY OF ANSONIA'S STO	
S AND		b. CONTRACT WITH THE A AT THE SITE PURSUAN STORMWATER AND DE	APPROPRIATE CONSERVATION DISTRICT TO PROVIDE INSPECTION T TO APPENDIX F OF THE GENERAL PERMIT FOR THE DISCHARGE (WATERING WASTEWATERS FROM CONSTRUCTION ACTIVITIES	
	2.	NOTIFY THE TOWN OF AN	E YOU DIG (811 OR 1-800-922- 4455) TO MARK UTILITIES. ISONIA ZONING AND INLAND WETLANDS AGENTS OF START OF	
AL AREA OF ACRES.	3.	HAVE CT LICENSED LAND	UM OF 48 HOURS IN ADVANCE. SURVEYOR STAKE OUT THE CLEARING LIMITS AND PERIMETER EF	ROSION
D AS A	4.	CONTROL. CUT TREES BUT DO NOT (GRUB.	
ISTRUCTION. SEDIMENT		INSTALL CONSTRUCTION INSTALL PERIMETER ERO	ENTRANCE. DISION AND SEDIMENTATION CONTROLS (HAY BALES AND WOODCH	P MULCH)
OPERATION		AND HAVE INSPECTED BY	Y SITE INSPECTOR PRIOR TO GRUBBING OR GRADING ACTIVITIES. E BASIN #1, IF DEWATERING IS NECESSARY FOR EXCAVATION PLE	,
GRADING,			NG PLAN WITH QUALIFIED ENVIRONMENTAL PROFESSIONAL. INST ID CAP PIPE IN THE BOTTOM OF THE BASIN. PROVIDE A STAKE MA	
WILL DISTURB		THE CAP LOCATION. DO SHALL BE USED AS A TEM	NOT INSTALL PERFORATED BASIN DRAIN AND CRUSHED STONE. E IPORARY SEDIMENTATION BASIN DURING CONSTRUCTION. UPON SIN #1 GRADING THE CONTRACTOR SHALL HAVE THE STABILIZED E	BASIN #1
JCTION	8.	INSPECTED BY SITE INSP GRUB WATERSHED 1 SITE	ECTOR. E AREA AND PERFORM SITE GRADING AND STABILIZATION WITHIN	
HOWN ON THE	9.		EA AS IDENTIFIED ON THE PLANS. 'ESTERN SWALE TO BASIN #1.	
ONE CHECK AS NEEDED OR	10.	PRIOR TO THE CONSTRU	CTION TRANSITION TO WATERSHED #2, THE CONTRACTOR SHALL G AND STABILIZATION REVIEWED BY THE SITE INSPECTOR TO ENSU	
RANSPORT.	4.4	APPROPRIATE STABILIZA	TION.	
SITE	11.	COORDINATE DEWATERII SHALL BE USED AS A TEM	E BASIN #2, IF DEWATERING IS NECESSARY FOR EXCAVATION PLE/ NG PLAN WITH QUALIFIED ENVIRONMENTAL PROFESSIONAL. BASII /IPORARY SEDIMENTATION BASIN DURING CONSTRUCTION. UPON SIN #2 GRADING THE CONTRACTOR SHALL HAVE THE STABILIZED E	N #2
SURES EVERY		INSPECTED BY SITE INSPI	ECTOR.	ASIN
EDIMENT THE HEIGHT OF		GRUB WATERSHED 2 SITE	ASTERN SWALE TO BASIN #2 AND INSTALL DRIVEWAY CULVERT. E AREA AND PERFORM ADDITIONAL SITE GRADING WITHIN WATERS	SHED 2
INED BY THE	14.	WORK AREA AS IDENTIFIE		
	15.	INSTALL PERIMETER CHA	IN LINK FENCE AROUND ENTIRE SITE. N PERFORATED PIPE AND CRUSHED STONE WITHIN BASIN #1.	
(SEE NOTE).		AFTER THE INITIAL GRAD	ING WORK IS COMPLETE THE BASINS, SWALES, AND ALL DISTURBE	
ED FOR ALL		AUGUST 15TH THROUGH	NIMUM OF ONE GROWING SEASON (APRIL 1ST THROUGH JUNE 157 OCTOBER 15TH). THE SITE SHALL BE LEFT UNDISTURBED TO ALL	OW NEW
RENCHES AND <u>OL SHALL NOT</u>			ISH. ROUTINE INSPECTIONS SHALL BE PERFORMED AND ANY ERO RESTORED. ANY WORK ASSOCIATED WITH THE INSTALLATION / RA	
			NOT COMMENCE UNTIL THE PERIMETER CONTROLS, INCLUDING, B AND BASINS, HAVE BEEN VEGETATIVELY STABILIZED.	UT NOT
LTERNATE	18.	INSTALL SOLAR RACKING	FOUNDATIONS, AND RACKING, AND SOLAR MODULES. HYDROSEE XPOSED SOIL AT THE END OF EACH WEEK AND BEFORE EVERY RA	
	10	PREDICTED FOR 0.5 INCH	IES OR MORE.	
MANENT	19.		LL ELECTRIC LINES AND AT THE END OF EACH WEEK HYDROSEED) SOIL AT THE END OF EACH WEEK AND BEFORE EVERY RAINFALL	OR MULCH
IORIZONTAL TO R THE	20.	PREDICTED FOR 0.5 INCH INSTALL REMAINING ELEC	IES OR MORE. CTRIC INFRASTRUCTURE AND AT THE END OF EACH WEEK HYDROS	SEED OR
LL BE ITAL TO ONE		MULCH AND SEED ANY EX PREDICTED FOR 0.5 INCH	XPOSED SOIL AT THE END OF EACH WEEK AND BEFORE EVERY RA IES OR MORE	NFALL
	21.		SOILS WHEN ALL SOLAR PANEL INSTALLATION AND ELECTRICAL TR	ENCHING
. 15, THE TTEMPTED AS	22.	CLEAN SEDIMENTS BASIN	NS AND GRADE AND RE-SEED FOR USE AS STORMWATER BASINS V	VHEN SITE
	23.	INSPECTOR DEEMS SOILS INSTALL PERIMETER SCR		
FINISHED	ROCI	K / LEDGE MANAGEMENT &	STABILIZATION PLAN	
		IIN STORMWATER BASINS		
OR MORE, THE			CK, IF ENCOUNTERED, WITHIN THE STORMWATER BASINS SHALL E N LIMITS BY EXCAVATOR OR MECHANICAL MEANS ONLY. ANY VOID	
' REPAIRED		THE BOULDERS OR LOOSE SEED MIX AS SPECIFIED ON	ROCK SHALL BE BACKFILLED WITH GRAVEL FILL. PROVIDE TOPSO N THE PROJECT PLANS.	IL AND
LL BE DISPOSED OF			SHALL BE REMOVED BY MECHANICAL MEANS ONLY, BLASTING SHALL BE REMOVED TO A MINIMUM OF 18" BELOW FINISHED	
	E		L FILL AND 6" OF TOPSOIL SHALL BE INSTALLED OVER LEDGE. PRO	
EGETATION IS				
		<pre>< THROUGHOUT THE SITE LEDGE, BOULDERS, OR LOO</pre>	OSE ROCK WHEN ENCOUNTERED THROUGHOUT THE REMAINING P	ORTIONS
ACCORDING OL" BY THE	(OF THE SITE SHALL BE REN	MOVED AS NEEDED TO PERFORM THE WORK. REMOVAL SHALL BE ANICAL MEANS ONLY. BLASTING SHALL NOT BE PERMITTED AT TH	BY
THE	2. \	WHEN BOULDERS OR LOOS	SE ROCK IS EXCAVATED AS PART OF THE WORK, ANY VOIDS LEFT I	
ON FOR THE	3. N		ERED AT THE GROUND SURFACE WITHIN THE WORK AREA A MINIM	
PRIOR TO THE			ERTILIZER, AND EROSION CONTROL MATTING SHALL BE INSTALLEI R ON THE PROJECT PLANS. SEED, FERTILIZER, AND EROSION CON	
)N &	Ν	MATTING MUST BE INSTALL	ED WITHIN 24 HOURS OF TOPSOIL PLACEMENT. TEMPORARILY STORED ON SITE AND THE CONTRACTOR SHALL M	
		THE MATERIAL IN EITHER C	OF THE FOLLOWING MANNERS, AT THEIR DISCRETION:	
		A.ROCK MAY BE REMOVE OF OR PROCESSED OF	ED FROM THE SITE VIA TRUCKS AND/OR TRAILERS AND LEGALLY D FSITE.	ISPOSED
ON BY THE			ED ONSITE, PROCESSED, AND USED AS TRENCH BACKFILL OR AS G	
AYS PRIOR TO			LE CRUSHING EQUIPMENT, PROCESSING EQUIPMENT, AND STOCKI ED BY SILT FENCE OR STRAW BALE BARRIERS.	PILES
			ACED AROUND THE SITE PERIMETER TO BE USED AS SCREENING F	EATURES.
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Benz Solar Site Eastern Box Turtle (*Terrapene carolina carolina*) Protection Plan

The Benz solar site in Ansonia CT (41°20'35.1"N 73°03'39.4"W) was documented to have at least one Eastern Box Turtle in 2020 by CLA Engineers. The Eastern Box Turtle is a State Special Concern species afforded protection under the Connecticut Endangered Species Act. It is also listed as a Greatest Conservation Need species in Connecticut's Comprehensive Wildlife Conservation Strategy (CT DEP 2005).

CLA has designed best management practices to be carried out before and during construction to satisfy requirements from the Connecticut Department of Energy & Environmental Protection ("CTDEEP") Wildlife Division and the CT Siting Council. These practices follow protocols developed from previous rare species consultations and state-approved protection plans. The practices and protocols presented here are focused on preventing incidental mortality to Eastern Box Turtle specifically and will also assist in avoiding impacts to other on-site herpetofauna.

CLA Engineers will serve as the Environmental Monitor for this project to ensure that Eastern Box Turtle protection measures are implemented properly. The Contractor shall contact Robert Russo at least 5 business days prior to the pre-construction meeting. Mr. Russo can be reached by phone at (860) 227-4895 or via email at brusso@claengineers.com. The recommended Eastern Box Turtle protection program consists of the following components:

- 1. Isolation of the project perimeter shall occur prior to clearing activities.
- 2. Targeted searches of the project area prior to construction: between April 1st and May 31st.
- 3. Periodic inspection and maintenance of isolation structures: throughout construction period.
- 4. Education of all contractors and sub-contractors prior to initiation of work on the site.
- 5. Documentation and reporting: submitted to CSC and NDDB by December 31, 2021 and 2022.

1. Isolation Barrier (Erosion and Sedimentation Controls)

- a. Plastic netting used in a variety of erosion control products (i.e., erosion control blankets, fiber rolls [wattles], reinforced silt fence) has been found to entangle wildlife, including reptiles, amphibians, birds and small mammals. These products or reinforced silt fence should not be used on the project. Temporary erosion control products, either erosion control blankets, fiber rolls composed of processed fibers mechanically bound together to form a continuous matrix (netless) and/or netting composed of planar woven natural biodegradable fiber should be used to avoid/minimize wildlife entanglement.
- b. Installation of erosion and sedimentation controls (i.e., silt fencing), required for erosion control compliance and creation of a barrier to migrating/dispersing herpetofauna, should be installed by the Contractor prior to clearing activities or any earthwork.
- c. The barrier fencing should be installed with minimal ground disturbance and tree clearing, preferably using a single small backhoe or trenching equipment.

- d. The fencing will consist of non-reinforced conventional erosion control woven fabric, installed approximately six inches below surface grade and staked at seven to ten-foot intervals using four-foot oak stakes or approved equivalent. The Contractor is responsible for daily inspections of the fencing for tears or breeches in the fabric and accumulation levels of sediment, particularly following storm events of 0.25 inch or greater. CLA will provide periodic inspections of the fencing throughout the duration of construction activities, generally on a biweekly frequency or more frequently if site conditions warrant.
- e. The Environmental Monitor will inspect the work zone following erosion control barrier installation to ensure the barrier is satisfactorily installed.
- f. All openings in the isolation barrier, used during the work day for accessibility, should be closed with hay bales at the completion of each day.
- g. The extent of the barrier fencing will be as shown on the site plans. The Contractor should have available additional barrier fencing should field conditions warrant extending the fencing as directed by CLA. No equipment, vehicles or construction materials shall be stored outside of the isolation barrier fencing.
- h. All silt fencing shall be removed within 30 days of completion of work and permanent stabilization of site soils.

2. Targeted Searches–Pre-Construction

- a. Upon completion of the barrier fence installation, the project limits will be searched for Eastern Box Turtle. The purpose of this work is to locate and remove all box turtles from within the construction zone prior to clearing activities and throughout the duration of facility construction.
- b. All turtles observed will be removed from the project area to the identified Relocation Zone that is located in the 100 foot vernal pool envelope.
- c. The time of day, frequency and intensity of the pre-construction searches should be determined by the Environmental Monitor based on weather conditions and success of relocation progression. It is anticipated that searches will be conducted once per week at a minimum, with more intensive and frequent searches conducted during periods of high activity which would increase the likelihood of captures.
- d. The Relocation Zone consists of an area of mixed hardwood forest within 100 feet of the vernal pool. This is the area where the turtle was previously observed.

3. Contractor Education

- a. Prior to the start of construction, the Contractor shall attend an educational session at the pre-construction meeting with CLA. This orientation and educational session will consist of an introductory meeting with CLA providing photos of herpetofauna that may be encountered during construction activities, including eastern box turtles, emphasizing the non-aggressive nature of these species, the absence of need to destroy wildlife that might be encountered and the need to follow the prescribed protection measures.
- b. The Contractor will be provided with cell phone and email contacts for CLA to immediately report encounters with any turtles or other herpetofauna. Educational poster materials will be provided by CLA and displayed on the job site to maintain worker awareness as the project progresses.

4. Turtle Protective Measures–During Construction

- a. Prior to the start of construction each day, the Contractor shall search the entire work area for turtles. The Environmental Monitor will also conduct periodic inspections of the work area depending upon weather conditions, observed turtle activity, or other factors.
- b. If a turtle is found, it shall be immediately moved by carefully grasped in both hands, one on each side of the shell, between the turtle's forelimbs and the hind limbs, and placed just outside of the isolation barrier closest to where it was encountered. The Environmental Monitor should be notified of any observed Eastern Box Turtle.
- c. Special care shall be taken by the Contractor during early morning and evening hours and on overcast rainy days so that possible basking or foraging turtles are not harmed by construction activities.

5. Reporting

- a. Following completion of the construction project, CLA will provide a summary report to the Connecticut Siting Council and CTDEEP documenting the monitoring and maintenance of the barrier fence and erosion control measures.
- b. Any observations of Eastern Box Turtle or other state listed species will be reported to CTDEEP by CLA with photo-documentation (if possible) and with specific information on the location and disposition of the animal.





79 Elm Street • Hartford, CT 06106-5127

www.ct.gov/deep

Affirmative Action/Equal Opportunity Employer

Bureau of Materials Management and Compliance Assurance

Notice of Permit Authorization

June, 16 2021

Steven Broyer JEFFERSON SOLAR LLC 222 S 9th St Minneapolis, MN 55402-3382

Subject: General Permit Registration for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities Application NO.: 202080118

Steven Broyer:

The Department of Energy and Environmental Protection, Water Permitting and Enforcement Division of the Bureau of Materials Management and Compliance Assurance, has completed the review of the Benz Street Solar (located at 31 Benz St, Ansonia) registration for the **General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, effective 10/1/13 (general permit)**. The project is compliant with the requirements of the general permit and the discharge(s) associated with this project is (are) authorized to commence as of the date of this letter. Permit No. GSN003655 has been assigned to authorize the stormwater discharge(s) from this project.

Questions can be emailed to <u>deep.stormwater@ct.gov</u>.



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May 17, 2021

Blake Nicholson Windam Solar LLC 222 S 9th St, Suite 1600 Minneapolis, MN 55402 blake.nicholson@ecosrenewable.com

NDDB DETERMINATION NUMBER: 202105024

Project: Benz Solar - Solar Energy Facility -31 Benz St., Ansonia, CT

Expiration: May 17, 2023

I have reviewed Natural Diversity Data Base (NDDB) maps and files regarding this project. According to our records, there are State-listed species (RCSA Sec. 26-306) documented nearby the proposed project area.

• Eastern box turtle (Terrapene carolina carolina)- State Special Concern

In Connecticut, these turtles are found in well-drained forest bottomlands and a matrix of open deciduous forests, early successional habitat, fields, gravel pits, and or powerlines. Turtles are dormant between November 1 and April 1 and hibernate in only a few inches from the surface in forested habitat.

The greatest threat to this species is habitat loss, fragmentation, and degradation due to development. This species is very sensitive to adult mortality because of late maturity (10 years old) and long life span (50-100years). Vehicular traffic, heavy equipment used for farming, and ATV use in natural areas are implicated specifically in adult mortality through collisions. Illegal collection by the pet trade and unknowing public for home pets exacerbates mortality rates and removes important individuals from the population. Predation rates are also unnaturally high because of increased predator populations (e.g. skunks, foxes, raccoons, and crows) that surround developed areas.

Construction protection measures:

Land disturbance activities that will crush active turtles or unearth/or crush hibernating turtles or nests need to consider local habitat features and apply fencing and/or time of year restrictions as appropriate. We recommend you consult with a herpetologist familiar with preferred habitats to assist you with proper techniques to ensure the best protection strategies are employed for your site.

If land disturbance will occur in open fields, early successional habitat, sandy open patches nearby wetland features, and sandy roads and roadsides or other potential nesting areas designated by a qualified herpetologist you will need to take precautions to prevent female turtles from entering work area and setting up nests. This fencing would need to be in place before May 15.

If land disturbance will occur in forested habitat you will need to take precautions to avoid crushing hibernating adults.

• Restrict your land disturbance activities in forested habitat to the turtle active season (conduct land disturbance activities between April 1- November 1).

When working in the upland between April 1- November 1:

Exhibit D

- Exclusionary practices will be required to prevent any turtle access into construction areas. These measures will need to be installed at the limits of disturbance as shown on the plans.
- Exclusionary fencing be at least 20 inches tall and must be secured to and remain in contact with the ground and be regularly maintained (at least bi-weekly and after major weather events) to secure any gaps or openings at ground level that may let animal pass through.
- Prior to construction, all turtles occurring within fencing work area will be relocated to suitable habitat outside disturbance area. This should be performed by a qualified professional familiar with habitat requirements and behavior of the species.
- The Contractor must search the work area each morning prior to any work being done.
- All construction personnel working within the turtle habitat must be apprised of the species description and the possible presence of a listed species.
- Any turtles encountered within the immediate work area shall be carefully moved to an adjacent area outside of the excluded area and fencing should be inspected to identify and remove access point. These animals are protected by law and no turtles should be relocated from the site.
- In areas where silt fence is used for exclusion, it shall be removed as soon as the area is stable to allow for reptile and amphibian passage to resume.
- No heavy machinery or vehicles may be parked in any turtle habitat.
- Special precautions must be taken to avoid degradation of wetland habitats including any wet meadows and seasonal vernal pools.

Site Management protection measures:

Mowing is major source of human induced adult turtle mortality.

• Avoid mowing or vehicular traffic during peak use by this species (May 15-Sept 15)

Use these additional techniques to minimize impact, especially if you need to mow during peak use times:

- Mowing style: Avoid flail mower heads with guide bars that ride along the ground. Sickle bar mowers will have the least impact if mowing every 1-5 years. In areas with more woody vegetation >1-2" diameter Brontosaurus-style mower will likely have the least impact on turtles.
- Mowing height: If mowing during active season, retention of mowing stubble to 7-12 inches will reduce mortality, reduce blade wear, and will leave important cover for animals.
- Directionality If mowing during the active season is necessary, start mowing from the center of the field and use a back-and-forth approach, or large circular pattern, to avoid concentrating fleeing animals where they may be killed or stranded. In addition, leave an unmowed 30 ft strip around the perimeter of the field and mow this area last. Most turtles are found in these areas and this provides time for them to react to the mowing activity and move out of the area.
 - If field is near stream: start mowing the side furthest from stream and work towards stream.
 - If field is bordered by woodland: start mowing side furthest from woodland and work towards woodland.
 - If field is bordered by road, start mowing next to the road and work your way across field.
- Mower Speed Mowing in low gear or at slow speeds will allow turtles to react and move out of the field.
- Unmowed Edge Leaving an unmowed field edge in high turtle use areas until after September 15th.

Site Design Recommendations:

If planned properly, you can increase the value of the habitat for wildlife and state listed species with your development.

- Create a site management plan to promote native vegetation growth in the area under the solar panels. Restoring native vegetation will attract pollinators and avoid the need for constant mowing. Reduced need for mowing will reduce the risk for turtles.
- Provide habitat for wildlife and allow for connectivity for wildlife movement. Use wildlife-friendly fencing to allow movement through the solar development.

This is determination is valid for two years.

Natural Diversity Data Base information includes all information regarding critical biological resources available to us at the time of the request. This information is a compilation of data collected over the years by the Department of Energy and Environmental Protection's Bureau of Natural Resources and cooperating units of DEEP, independent conservation groups, and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Consultations with the NDDB should not be substituted for on-site surveys required for environmental assessments. Current research projects and new contributors continue to identify additional populations of species and locations of habitats of concern, as well as, enhance existing data. Such new information is incorporated in the NDDB as it becomes available.

Please contact me if you have any questions (<u>shannon.kearney@ct.gov</u>). Thank you for consulting with the Natural Diversity Data Base and continuing to work with us to protect State-listed species.

Sincerely,

/s/ Shannon B. Kearney Wildlife Biologist

Preliminary

THE

DUOMAXtwin

BIFACIAL DUAL GLASS 252 LAYOUT MODULE

252 LAYOUT

MONOCRYSTALLINE MODULE

475-490W **POWER OUTPUT RANGE**

20.8% **MAXIMUM EFFICIENCY**

0~+5W **POSITIVE POWER TOLERANCE**

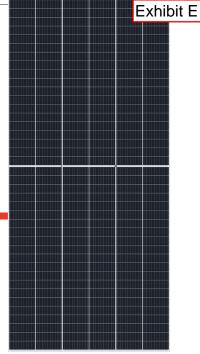
Founded in 1997, Trina Solar is the world's leading total solution provider for solar energy. With local presence around the globe, Trina Solar is able to provide exceptional service to each customer in each market and deliver our innovative, reliable products with the backing of Trina as a strong, bankable brand. Trina Solar now distributes its PV products to over 100 countries all over the world. We are committed to building strategic, mutually beneficial collaborations with installers, developers, distributors and other partners in driving smart energy together.

Comprehensive Products and System Certificates

IEC61215/IEC61730/IEC61701/IEC62716/UL61730 ISO 9001: Quality Management System ISO 14001: Environmental Management System ISO14064: Greenhouse Gases Emissions Verification ISO45001: Occupation Health and Safety Management System

Trinasolar

PRODUCTS TSM-DEG15VC.20(II) POWER RANGE 475-490W





High power

• Up to 490W front power and 20.8% module efficiency with half-cut and MBB (Multi Busbar) technology bringing more BOS savings

High reliability

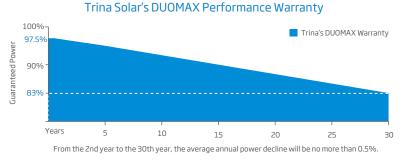
- Ensured PID resistance through cell process and module material control
- Resistant to salt, acid and ammonia
- Proven to be reliable in high temperature and humidity areas
- Certificated to fire class A
- Minimizes micro-crack and snail trails
- Mechanical performance: Up to 5400 Pa positive load and 2400 Pa negative load

High energy generation

- Up to 25% additional power gain from back side depending on the albedo;
- Excellent IAM and low light performance validated by 3rd party with cell process and module material optimization
- Better anti-shading performance and lower operating temperature

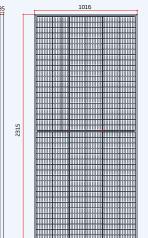
Easy to install

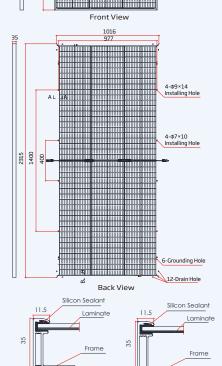
- Frame design makes module compatible with all racking and installation methods
- Easy to handle and install as normal framed module during transportation



DUOMAXtwin

DIMENSIONS OF PV MODULE(mm)

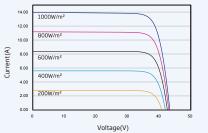




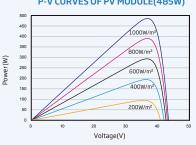
I-V CURVES OF PV MODULE(485 W)

A-A

B-B



P-V CURVES OF PV MODULE(485W)



Trinasolar

FLECTRICAL DATA (STC)

ELECTRICAL DATA (STC)					
Peak Power Watts-P _{MAX} (Wp)*	475	480	485	490	
Power Tolerance-P _{MAX} (W)	0~+5				
Maximum Power Voltage-V _{MPP} (V)	36.0	36.1	36.2	36.3	
Maximum Power Current-Impp (A)	13.19	13.29	13.39	13.49	
Open Circuit Voltage-V₀c (V)	43.2	43.3	43.4	43.5	
Short Circuit Current-Isc (A)	13.80	13.92	13.97	14.07	
Module Efficiency ηm (%)	20.2	20.4	20.6	20.8	

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5. *Measuring tolerance: ±3%.

Electrical characteristics with digerent rear side power gain (reference to 485 Wp front)

Maximum Power-P _{MAX} (Wp)	509	558	582	606
Maximum Power Voltage-V _{MPP} (V)	36.2	36.2	36.2	36.2
Maximum Power Current-Impp (A)	14.06	15.40	16.07	16.74
Open Circuit Voltage-Voc (V)	43.5	43.6	43.7	43.8
Short Circuit Current-Isc (A)	14.67	16.07	16.76	17.46
Pmax gain	5%	15%	20%	25%

Power Bifaciality:70±5%

ELECTRICAL DATA (NMOT)

Maximum Power-P _{MAX} (Wp)	363	367	371	375
Maximum Power Voltage-V _{MPP} (V)	34.3	34.4	34.8	34.8
Maximum Power Current-IMPP (A)	10.59	10.68	10.67	10.76
Open Circuit Voltage-V₀c (V)	41.1	41.2	41.2	41.3
Short Circuit Current-Isc (A)	11.10	11.20	11.24	11.32

NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

MECHANICAL DATA

Solar Cells	Monocrystalline
Cell Orientation	252 cells (12 × 21)
Module Dimensions	2315 × 1016 × 35 mm (91.14 × 40 × 1.38 inches)
Weight	30.5 kg (67.2 lb)
Front Glass	2.0 mm (0.08 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant material	POE/EVA
Back Glass	2.0 mm (0.08 inches), Heat Strengthened Glass (White Grid Glass)
Frame	35mm(1.38 inches) Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm² (0.006 inches²), Portrait: 600mm/P 600mm(23.62/23.62inches) Landscape: 2200 mm /P 2200 mm (86.61/86.61 inches)
Connector	MC4 EVO2 / TS4*

*Please refer to regional datasheet for specified connector.

TEMPERATURE RATINGS

NMOT (Nominal Moudule Operating Temperature)	41°C (±3°C)
Temperature Coefficient of PMAX	- 0.35%/°C
Temperature Coefficient of Voc	- 0.25%/°C
Temperature Coefficient of lsc	0.04%/°C

(Do not connect Fuse in Combiner Box with two or more strings in parallel con

WARRANTY

12 year Product Workmanship Warranty

30 year Power Warranty

(Please refer to product warranty for details)

MAXIMUM RATINGS

Operational Temperature	-40~+85°C			
Maximum SystemVoltage	1500V DC (IEC)			
	1500V DC (UL)			
Max Series Fuse Rating	25A			
inection)				

PACKAGING CONFIGURATION

Modules per box: 31 pieces

Modules per 40' container: 620 pieces

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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252 LAYOUT MODULE

Benz Solar Project - Decommissioning Memo

This memo describes a Decommissioning Plan that establishes the approach to conduct decommissioning activities for the permanent closure of the Facilities at the end of the Facilities' useful life or the permanent cessation of the Facilities' operation, whichever comes first. The Plan describes the approach for removal and/or abandonment of facilities and equipment associated with the Facilities and describes anticipated land-restoration activities.

DECOMMISSIONING ACTIVITIES:

Decommissioning will involve removal and disposal or recycling of all above-surface Project components. All recyclable materials will be transported to the appropriate nearby recycling facilities. Any non-recyclable materials will be properly disposed of at a nearby landfill. 95% or greater of the Facilities' components will be recyclable.

Decommissioning Preparation:

The first step in the decommissioning process will be to assess existing site conditions and prepare the site for demolition. Site decommissioning and equipment removal can take up to six months to complete for a project of this size. Therefore, access roads, fencing, and electrical power will temporarily remain in place for use by the decommissioning and site restoration workers until no longer needed. Demolition debris will be placed in temporary on-site storage areas pending final transportation and disposal/recycling according to the procedures listed below.

PV Equipment Removal and Recycling:

During decommissioning, all the Facilities components will be either removed from the site and recycled or abandoned in place 12 inches below grade (for underground conduit). Equipment removal will include all pad-mounted cabinets, above ground and in conduit wiring, solar modules, solar module racking, transformers, switchgear, inverters, and panel boards. Major equipment such as transformers will be recycled or rebuilt for future uses.

Steel beams that supported the module racking and inverters/panelboards will be mechanically pulled out of the ground; any resulting holes will be backfilled with on-site soil to match existing site soil conditions. The concrete transformer and interconnection equipment pads will be broken up and removed from the site.

Demolition debris and removed equipment may be cut or dismantled into pieces that can easily be transported from the site. The majority of steel and aluminum will be processed for transportation and delivered to an off-site recycling center. The solar modules will be palletized and transported to the nearest recycling facility that will accept them. Minimal non-recyclable materials are anticipated; these will be properly disposed of at the nearest qualified disposal facility.

Internal Power Collection System:

The DC and AC power collection system will be dismantled and removed. All underground cables will be removed from conduit and recycled. Conduit associated with DC and AC power, may remain in place at a depth of 12 inches below ground surface. All conduit that is removed will be recycled.

Access Roads:

The onsite access driveway will remain in place to accomplish decommissioning at the end of the facility's life. At the time of decommissioning, if the landowner determines that this road will be beneficial for the future use of the site, the access road may remain in place after decommissioning. The future use of the site is currently undetermined, but it is assumed that the access to the site will remain unchanged for future development of the parcel.

Security Fence:

The chain link perimeter security fence will remain in place during decommissioning activities for site safety and security purposes. At the time of decommissioning, if the landowner determines that this fence will be beneficial for the future use of the site, the fence may remain after decommissioning. The future use of the site is currently undetermined. If the fencing is not used, it will be removed and transported to the nearest steel recycling facility. Holes left behind by the fence support posts will be backfilled with on site soil and will be seeded to match existing onsite groundcover.

Landscaping:

The double row of screening vegetation along certain areas of the northern and western perimeter of the Site will remain in place during decommissioning activities for site safety and security purposes. At the time of decommissioning, if the landowner determines that this landscaping will be beneficial for the future use of the site, the landscaping may remain after decommissioning. The future use of the site is undetermined at this time. If the landscaping is not used, it will be removed and transported to the nearest plant material disposal facility for composting or mulching. Shrubs, bushes, and trees would be stump cut to just below ground level.

13.8 kV Interconnection Line:

The interconnection cabling that runs East from the project and across Benz Street to connect the Facilities to the UI distribution circuit will remain in place during decommissioning activities to provide electric service onsite during decommissioning. At the time of decommissioning, if the landowner determines that this electric service line will be beneficial for the future use of the site, the line may remain after decommissioning. If the line is not used, it will be removed per UI guidelines and transported offsite to the nearest recycling facility.

SITE RECLAMATION:

After the Facilities are completely decommissioned, and all equipment has been removed from the Site, additional activities will be performed to ensure appropriate surface drainage patterns and establishment of groundcover of disturbed areas.

Restoration Process:

Site Restoration activities associated with decommissioning are anticipated to be very minimal. Ponds and swales will remain in place as constructed for the solar facility. The grading and sitework preformed for the solar facility will have created a rolling terrain suitable for a variety of future development options for the site.

Reclamation will restore vegetative cover disturbed by the removal of equipment. The process will involve the replacement of topsoil and vegetation, as well as modification of site topography where necessary to maintain appropriate site drainage.

If any soils are determined to be compacted at levels that would affect successful revegetation, decompaction will occur. The method of decompaction will depend on how compacted the soil has become over the life of the Project.

Monitoring Activities:

The Site will be monitored after Site Reclamation activities are complete to confirm that any earthwork and revegetation was performed correctly and last permanently. The Site will be periodically inspected (at least twice annually) to ensure appropriate stabilization and groundcover is established during the reclamation process. Any deficiencies will be immediately corrected. This monitoring will continue for a period of five years, or until the Site is redeveloped for a future use, whichever comes first.