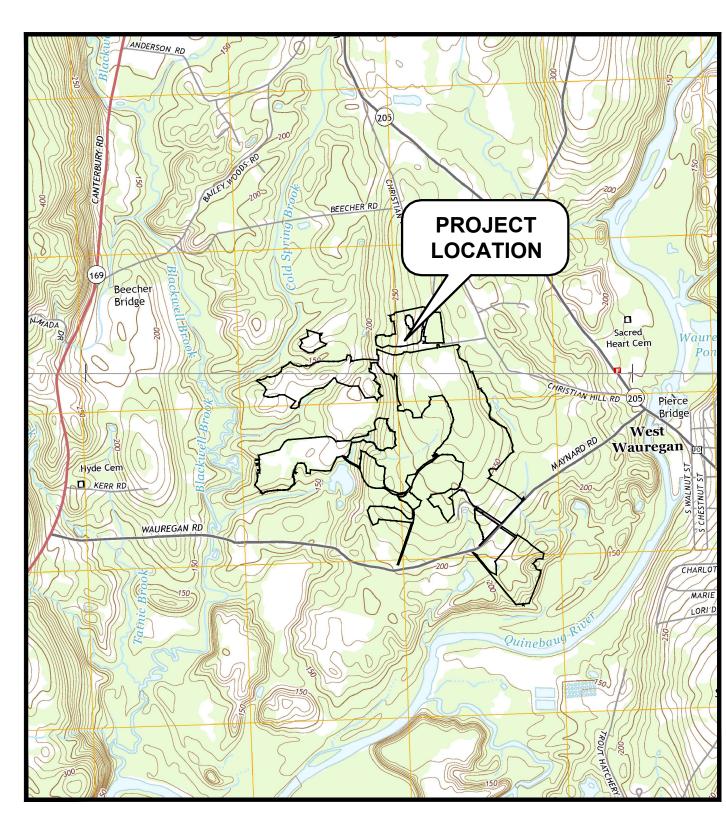
# QUINEBAUG SOLAR PROJECT SOIL EROSION AND SEDIMENT CONTROL PLAN BROOKLYN AND CANTERBURY, CONNECTICUT REVISED FEBRUARY 2021

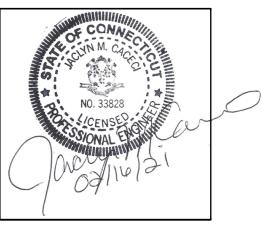
SHEET NO.	SHEET TITLE
	COVER SHEET
SESC-1	SOIL EROSION AND SEDIMENT CONTROL PLAN - OVERALL
SESC-2	SOIL EROSION AND SEDIMENT CONTROL PLAN PHASE 1 - OVERALL
SESC-3 - SESC-18	SOIL EROSION AND SEDIMENT CONTROL PLAN PHASE 1A - PHASE 1L
SESC-19*	SOIL EROSION AND SEDIMENT CONTROL PLAN PHASE 2 - OVERALL
SESC-20 - SESC-36	SOIL EROSION AND SEDIMENT CONTROL PLAN PHASE 2A - PHASE 2M
SESC-37	SOIL EROSION AND SEDIMENT CONTROL PLAN PHASE 3 - OVERALL
SESC-38 - SESC-63	SOIL EROSION AND SEDIMENT CONTROL PLAN PHASE 3A - PHASE 3U
SESC - 64	SOIL EROSION AND SEDIMENT CONTROL PLAN PHASE 4 - OVERALL
SESC-65 - SESC-81	SOIL EROSION AND SEDIMENT CONTROL PLAN PHASE 4A - PHASE 4M
SESC-82 - SESC-84	DETAILS



SCALE: 1" = 2,000'

PREPARED BY:

Tighe&Bond



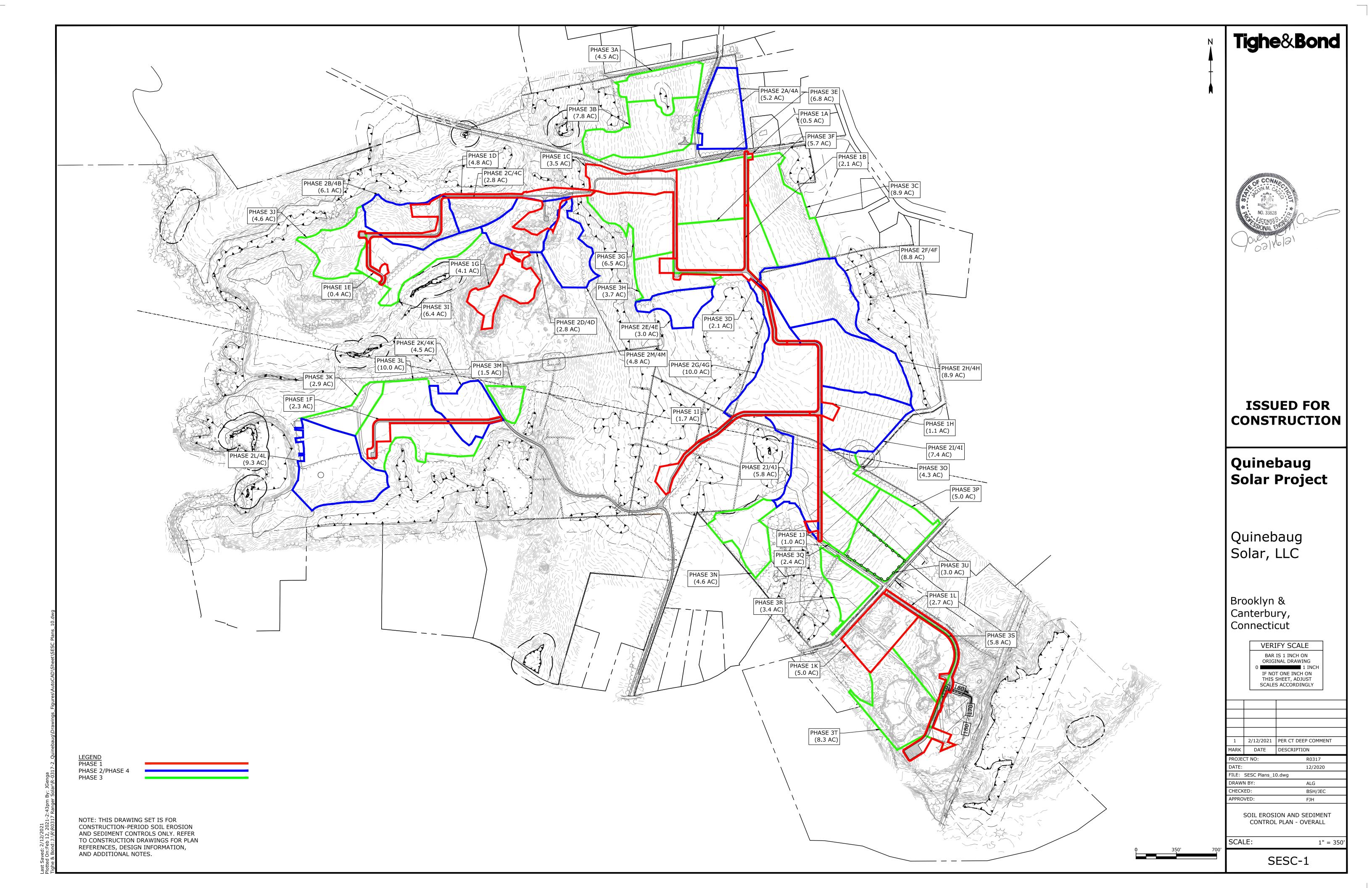
JACLYN M. CACECI, PE

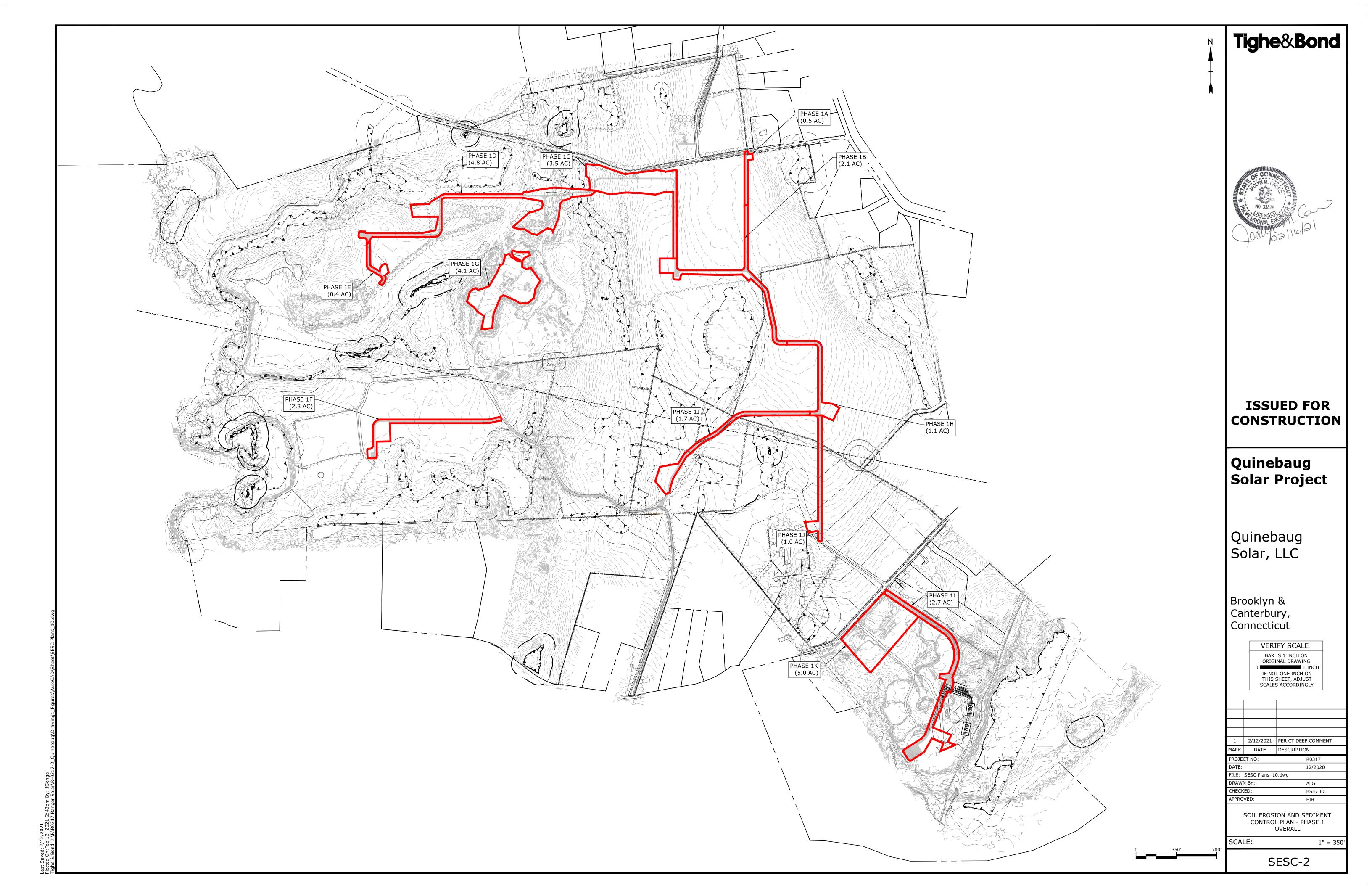
### **DEVELOPER**

QUINEBAUG SOLAR, LLC C/O NEXTERA ENERGY RESOURCES, LLC 700 UNIVERSE BOULEVARD JUNO BEACH, FL 33408

#### **ENGINEER**

TIGHE & BOND
213 COURT STREET, #1100
MIDDLETOWN, CONNECTICUT 06457





- 1. EFFECTIVELY STABILIZE SOILS IN PHASE 1 BEFORE COMMENCING GRADING AND CONSTRUCTION IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION.
- 2. CONFORM TO THE CURRENT CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL FOR ANY
- 3. REFER TO STORMWATER POLLUTION CONTROL PLAN FOR SEDIMENT TRAP/BASIN SIZING CALCULATIONS.
- 4. REFER TO CONSTRUCTION DRAWINGS FOR ALL DESIGN INFORMATION.

SOIL DISTURBANCE TO THE EXISTING AGRICULTURAL FIELDS.

- 5. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY REQUIRE MODIFICATION BY THE STORMWATER PROFESSIONAL DEPENDING ON ACTUAL FIELD CONDITIONS THROUGHOUT CONSTRUCTION DURATION.
- 5. PERMANENT STORMWATER BASINS WHICH OVERLAP LOCATIONS OF TEMPORARY STORMWATER FEATURES USED DURING CONSTRUCTION TO MANAGE STORMWATER SHALL BE EXCAVATED TO A SUITABLE DEPTH TO REMOVE ACCUMULATED SEDIMENT AND RESTORE INFILTRATION CHARACTERISTICS OF THE NATIVE SOIL AT THE END OF CONSTRUCTION, ONCE SITE STABILIZATION HAS BEEN ACHIEVED. PERMANENT STORMWATER BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN RUNOFF AND SHALL NOT BE DISTURBED BY VEHICLE TRAFFIC OR OTHER CONSTRUCTION ACTIVITIES.

#### **CONSTRUCTION PHASE 1**

- 1. FLAG THE LIMITS OF CONSTRUCTION NECESSARY TO FACILITATE THE PRECONSTRUCTION MEETING.
- 2. CONDUCT ENVIRONMENTAL RESTRICTION AND SAFETY TRAINING FOR ALL SITE PERSONNEL.
- 3. HOLD PRECONSTRUCTION MEETING.
- 4. INSTALL CONSTRUCTION ENTRANCE.
- 5. INSTALL PERIMETER CONTROLS TO ESTABLISH PHASE WORK AREA IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND SOIL EROSION AND SEDIMENT CONTROL PLAN.
- 6. PRIOR TO INSTALLING STORMWATER CONTROLS, SUCH AS TEMPORARY DIVERSIONS AND STONE CHECK DAMS, INSPECT EXISTING CONDITIONS TO ENSURE DISCHARGE LOCATIONS ARE STABLE. IF NOT STABLE, REVIEW DISCHARGE CONDITIONS WITH THE DESIGN ENGINEER AND IMPLEMENT ADDITIONAL STABILIZATION MEASURES PRIOR TO INSTALLING SURFACE WATER CONTROLS.
- CONSTRUCT TEMPORARY SEDIMENT TRAPS AND/OR BASINS, DIVERSION SWALES AND BERMS WITH CHECK DAMS.
- 8. ONCE TEMPORARY STORMWATER CONTROLS ARE ESTABLISHED, CLEAR AND REMOVE EXISTING STUMPS.
- 9. WHERE APPLICABLE, STRIP, RE-DISTRIBUTE, AND STABILIZE ALL TOPSOIL THAT IS WITHIN THE FOOTPRINT OF THE SITE ROADS, SITE ROAD APPURTENANCES AND THE COLLECTOR SUBSTATION (PURSUANT TO 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, CHAPTER 4, PART II AND THE FARMLAND SOILS MITIGATION PLAN WHICH IS EXHIBIT E IN THE CSC PETITION).
- 10. CONSTRUCT SITE ROADS AND APPURTENANCES. INSTALL CONDUITS FOR CROSSINGS SIMULTANEOUS TO CONSTRUCTION OF THE ROAD.
- 11. STABILIZE SITE WITH SEED AND MULCH IN ALL DISTURBED AREAS. IF A MINIMUM 4" OF TOPSOIL IS NOT PRESENT, AMEND WITH LOAM BORROW FOR A MINIMUM 4" OF VEGETATIVE SUPPORT MATERIAL TO PROMOTE GRASS GROWTH. STABILIZE AREAS WITH A SLOPE OF 7% OR STEEPER WITH HYDROSEED WITH BONDED FIBER MATRIX OR HYDROSEED AND INSTALL EROSION CONTROL BLANKETS. MONITOR DISTURBED AREAS WEEKLY OR FOLLOWING RAIN EVENTS AND AMEND WITH ADDITIONAL SEEDING AS NEEDED UNTIL STABILIZATION IS ACHIEVED.
- 12. UPON STABILIZATION, TEMPORARY CONTROLS MAY BE REMOVED OR RELOCATED AS NECESSARY TO CONSTRUCT SUBSEQUENT SUB-PHASES.

#### SESC NARRATIVE

THE PROPOSED PROJECT INCLUDES CLEARING AND STUMP REMOVAL, THE CONSTRUCTION OF A SOLAR ARRAY, FENCES, ACCESS ROADS, AND SITE LANDSCAPING.

THE PROJECT SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN MULTIPLE PHASES TOTALING APPROXIMATELY 220 ACRES OF DISTURBANCE.

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PROPERTY LINE
EXISTING INTERMEDIATE CONTOURS
EXISTING INDEX CONTOURS
SUBSTATION AREA CONTOURS
GRAVEL ROAD/DRIVEWAY
VERNAL POOL BUFFER
STONE WALL
WETLAND BUFFER
WATERCOURSE BUFFER
DELINEATED WATERCOURSE

WATERCOURSE BUFFER
DELINEATED WATERCOURSE
VERNAL POOL
DELINEATED WETLAND
EXISTING LIMIT OF VEGETATION
PROPOSED LIMIT OF VEGETATION
PHASE LIMIT LINE

PHASE LIMIT LINE
FUTURE LIMIT OF SOLAR ARRAY
PERIMETER EROSION CONTROL
TEMP. CONVEYANCE SWALE WITH SCD

TEMPORARY SOIL STOCKPILE

S&E CODES
SCD STONE CHECK DAM
TCS TEMP. CONVEYANCE SWALE

STABILIZED-CONSTRUCTION ENTRANCE -----PHASE 1A ACCESS ROAD

SPĮLLWAY

SEDIMENT TRAP 1A

WEIR CREST ELEV. 282 TOP OF BERM ELEV. 283

FUTURE-

SOLAR

ARRAY

LIMITS OF

CROSSING TO BE MAINTAINED DURING

DEPICTED IN THE QUINEBAUG SOLAR

DRAWINGS DURING

**MEASURES** 

TEMPORARY LOW FLOW

CONSTRUCTION. GRADING

SHOULD BE MODIFIED TO

PROJECT CONSTRUCTION

REMOVAL OF TEMPORARY

THE PROPOSED CONDITION

TOTAL REQUIRED STORAGE = 67 CU. YD.

TOTAL PROVIDED STORAGE = 97 CU. YD.
DEPTH OF WET STORAGE = 1 FOOT

MIN. 903 SQ. FT. TRAP BOTTOM AT ELEV. 280

PROVIDED WET STORAGE = 41 CU. YD. PROVIDED DRY STORAGE = 56 CU. YD.

DEPTH OF DRY STORAGE = 1 FOOT

Tighe&Bond



ISSUED FOR CONSTRUCTION

Quinebaug Solar Project

Quinebaug Solar, LLC

Brooklyn & Canterbury, Connecticut

VERIFY SCALE

BAR IS 1 INCH ON
ORIGINAL DRAWING

1 INCH
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY

1	2/12/2021	PER CT DEEP COMMENT
MARK	DATE	DESCRIPTION
PROJECT NO:		R0317
DATE:		12/2020
FILE: SESC Plans_10.dwg		
DRAWN BY:		ALG
CHECKED:		BSH/JEC

SOIL EROSION AND SEDIMENT CONTROL PLAN - 1A

SCALE:

SESC-3

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PROPERTY LINE EXISTING INTERMEDIATE CONTOURS EXISTING INDEX CONTOURS

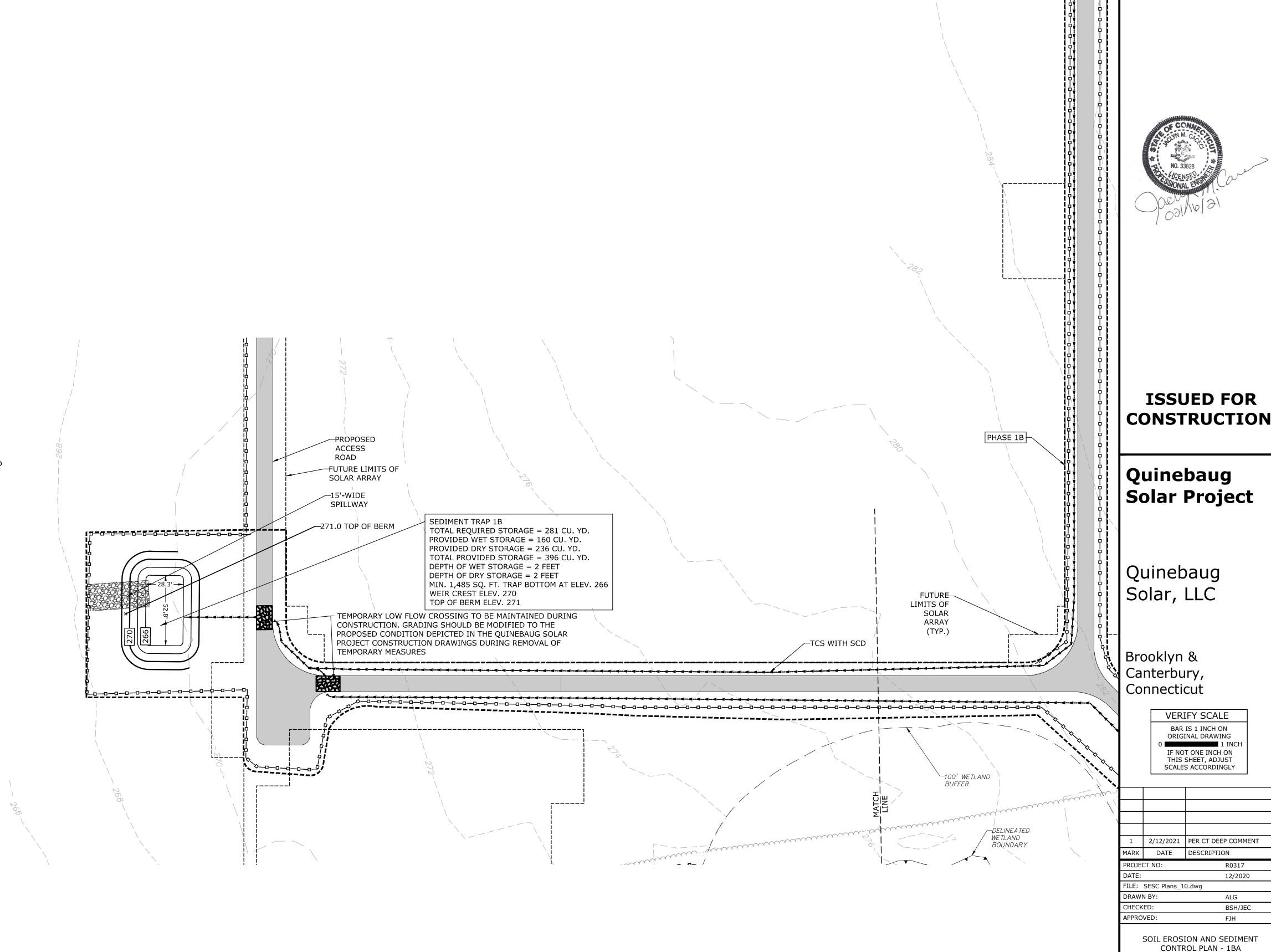
SUBSTATION AREA CONTOURS GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER STONE WALL WETLAND BUFFER WATERCOURSE BUFFER DELINEATED WATERCOURSE VERNAL POOL

DELINEATED WETLAND EXISTING LIMIT OF VEGETATION PROPOSED LIMIT OF VEGETATION PHASE LIMIT LINE

FUTURE LIMIT OF SOLAR ARRAY PERIMETER EROSION CONTROL TEMP. CONVEYANCE SWALE WITH SCD

TEMPORARY SOIL STOCKPILE

SCD STONE CHECK DAM TCS TEMP. CONVEYANCE SWALE



Tighe&Bond

R0317

AI G

FJH

SESC-4

SCALE:

12/2020

BSH/1FC

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EXISTING LIMIT OF VEGETATION PROPOSED LIMIT OF VEGETATION FUTURE LIMIT OF SOLAR ARRAY

PERIMETER EROSION CONTROL TEMP. CONVEYANCE SWALE WITH SCD

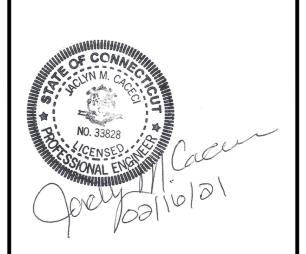
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-0000000000000000 \_\_\_\_\_\_ \_\_\_\_ \_\_\_\_\_ \_\_\_\_\_\_ -----

FUTURE-LIMITS OF SOLAR ARRAY (TYP.) -TCS WITH SCD ~----· -100' WETLAND TCS WITH SCI —DELINEATED WETLAND PROPOSED ACCESS BOUNDARY PHASE 1B 100' WETLAND 100' WETLAND BUFFER





## **ISSUED FOR** CONSTRUCTION

# Quinebaug Solar Project

Quinebaug Solar, LLC

Brooklyn & Canterbury, Connecticut

> VERIFY SCALE BAR IS 1 INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

1	2/12/2021	PER CT DEEP COMMENT
MARK	DATE	DESCRIPTION
PROJECT NO:		R0317
DATE:		12/2020
FILE: SESC Plans_10.dwg		
DRAWN BY:		ALG
CHECKED:		BSH/JEC
APPROVED:		E1H

SOIL EROSION AND SEDIMENT CONTROL PLAN - 1BB

SCALE:

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SESC-5

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PROPERTY LINE EXISTING INTERMEDIATE CONTOURS EXISTING INDEX CONTOURS SUBSTATION AREA CONTOURS GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER STONE WALL WETLAND BUFFER WATERCOURSE BUFFER DELINEATED WATERCOURSE VERNAL POOL

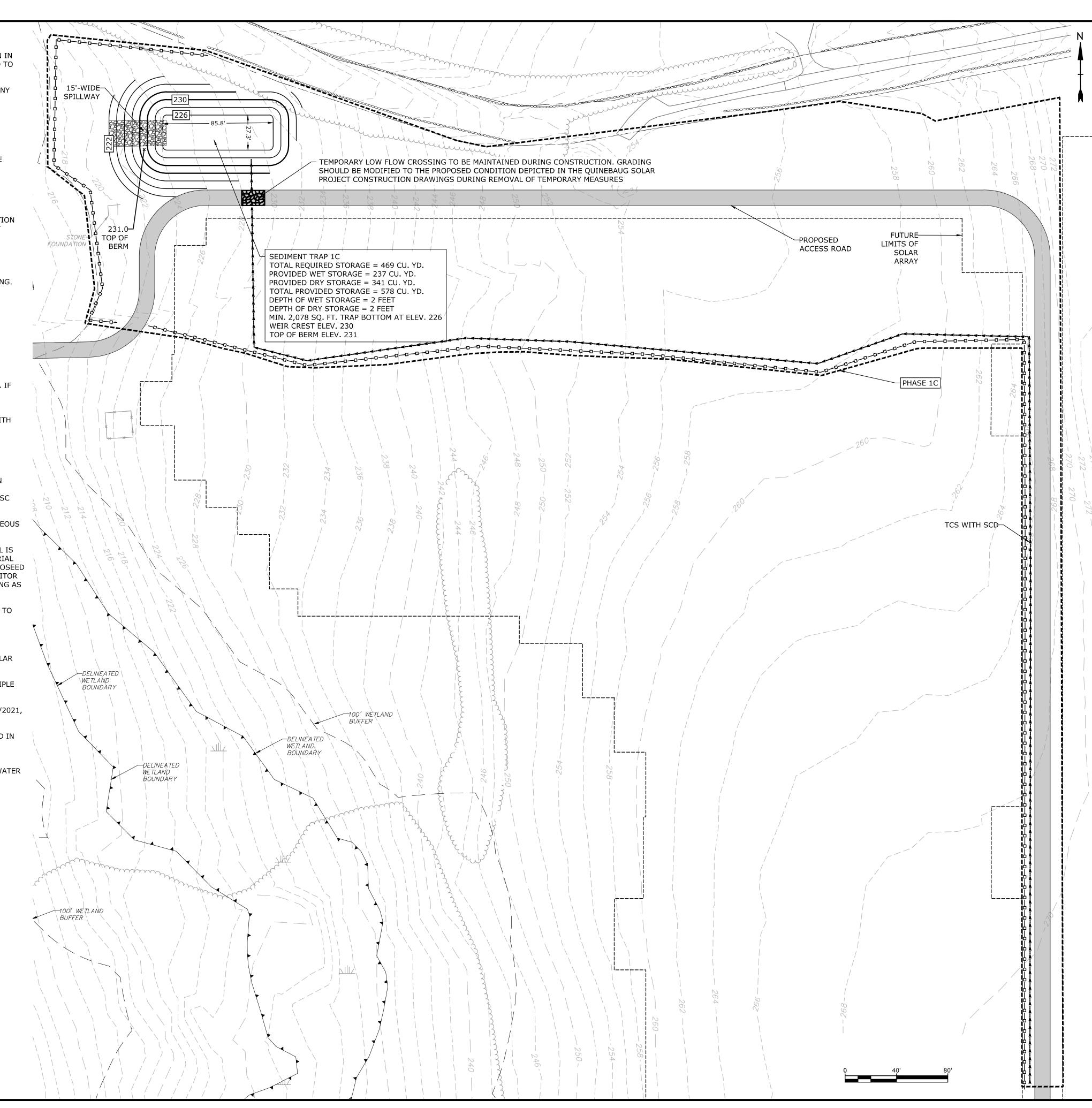
DELINEATED WETLAND EXISTING LIMIT OF VEGETATION PROPOSED LIMIT OF VEGETATION

PHASE LIMIT LINE FUTURE LIMIT OF SOLAR ARRAY PERIMETER EROSION CONTROL TEMP. CONVEYANCE SWALE WITH SCD

TEMPORARY SOIL STOCKPILE

S&E CODES

SCD STONE CHECK DAM TCS TEMP. CONVEYANCE SWALE



Tighe&Bond

**ISSUED FOR** 

CONSTRUCTION

Quinebaug Solar Project

Quinebaug Solar, LLC

Brooklyn &

Canterbury,

Connecticut

**VERIFY SCALE** 

BAR IS 1 INCH ON

ORIGINAL DRAWING

IF NOT ONE INCH ON

THIS SHEET, ADJUST

SCALES ACCORDINGLY

1 2/12/2021 PER CT DEEP COMMENT

SOIL EROSION AND SEDIMENT

CONTROL PLAN - 1C

SESC-6

R0317

AI G

FJH

12/2020

BSH/1FC

1" = 40'

MARK DATE DESCRIPTION

FILE: SESC Plans\_10.dwg

PROJECT NO:

DRAWN BY:

CHECKED:

PPROVED:

SCALE:

- 1. EFFECTIVELY STABILIZE SOILS IN PHASE 1 BEFORE COMMENCING GRADING AND CONSTRUCTION IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION.
- 2. CONFORM TO THE CURRENT CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL FOR ANY SOIL DISTURBANCE TO THE EXISTING AGRICULTURAL FIELDS.
- 3. REFER TO STORMWATER POLLUTION CONTROL PLAN FOR SEDIMENT TRAP/BASIN SIZING CALCULATIONS.
- 4. REFER TO CONSTRUCTION DRAWINGS FOR ALL DESIGN INFORMATION.
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- 2. CONDUCT ENVIRONMENTAL RESTRICTION AND SAFETY TRAINING FOR ALL SITE PERSONNEL
- 3. HOLD PRECONSTRUCTION MEETING
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- 5. INSTALL PERIMETER CONTROLS TO ESTABLISH PHASE WORK AREA IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND SOIL EROSION AND SEDIMENT CONTROL PLAN.
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- 10. CONSTRUCT SITE ROADS AND APPURTENANCES. INSTALL CONDUITS FOR CROSSINGS SIMULTANEOUS TO CONSTRUCTION OF THE ROAD.
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#### SESC NARRATIVE

THE PROPOSED PROJECT INCLUDES CLEARING AND STUMP REMOVAL, THE CONSTRUCTION OF A SOLAR ARRAY, FENCES, ACCESS ROADS, AND SITE LANDSCAPING.

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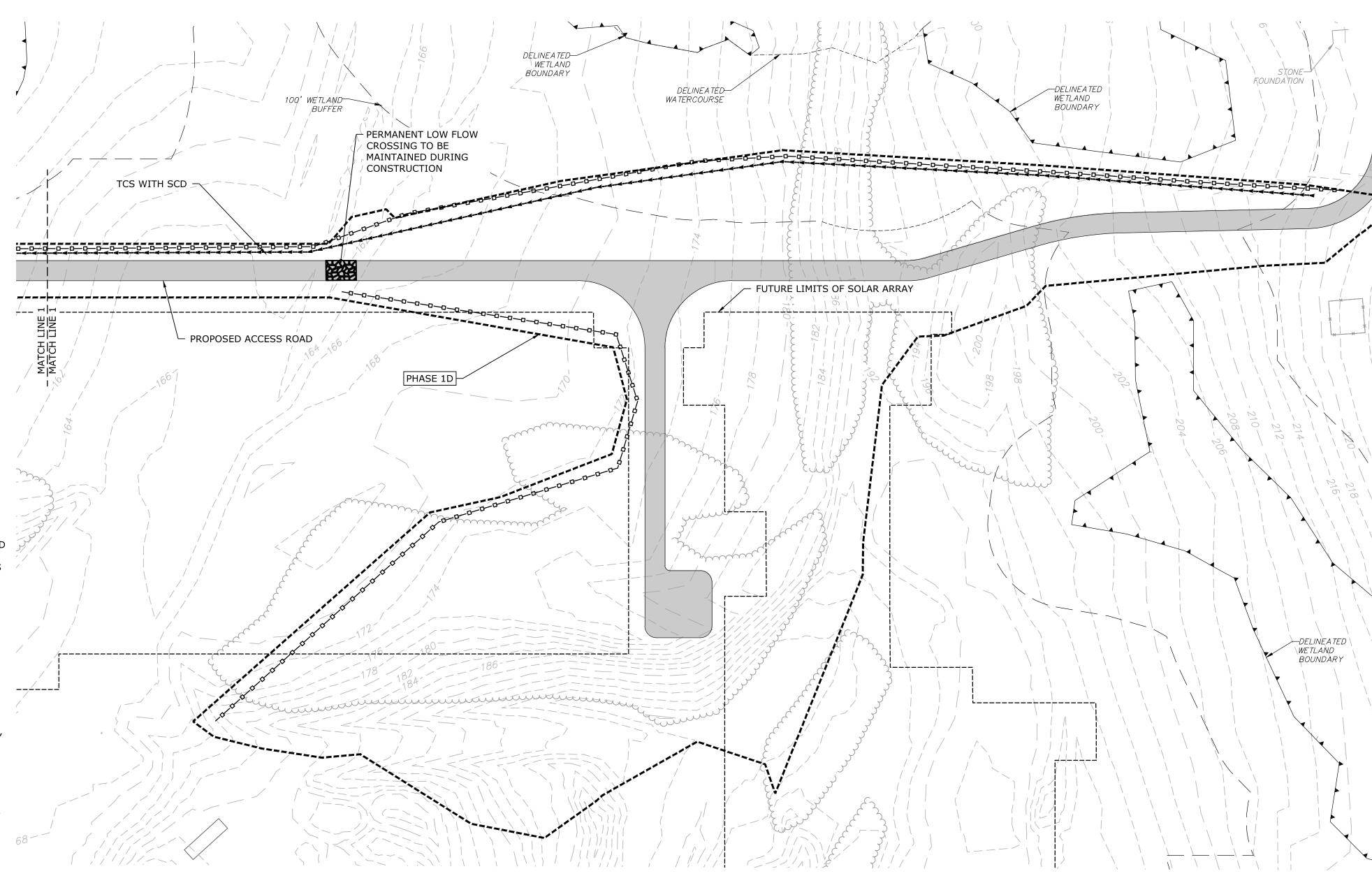
EXISTING LIMIT OF VEGETATION PROPOSED LIMIT OF VEGETATION PHASE LIMIT LINE

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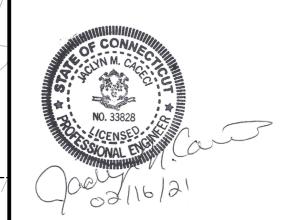
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S&E CODES SCD STONE CHECK DAM TCS TEMP. CONVEYANCE SWALE







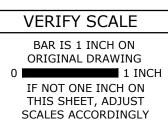


## **ISSUED FOR** CONSTRUCTION

# Quinebaug Solar Project

Quinebaug Solar, LLC

Brooklyn & Canterbury, Connecticut



| 1              | 2/12/2021              | PER CT DEEP COMMENT |
|----------------|------------------------|---------------------|
| MARK           | DATE                   | DESCRIPTION         |
|                |                        |                     |
| PROJE          | CT NO:                 | R0317               |
| PROJECT DATE:  | CT NO:                 | R0317<br>12/2020    |
| DATE:          | CT NO:<br>SESC Plans_1 | 12/2020             |
| DATE:          | SESC Plans_1           | 12/2020             |
| DATE:<br>FILE: | SESC Plans_10          | 12/2020<br>0.dwg    |

SOIL EROSION AND SEDIMENT CONTROL PLAN - 1DA

SCALE:

SESC-7

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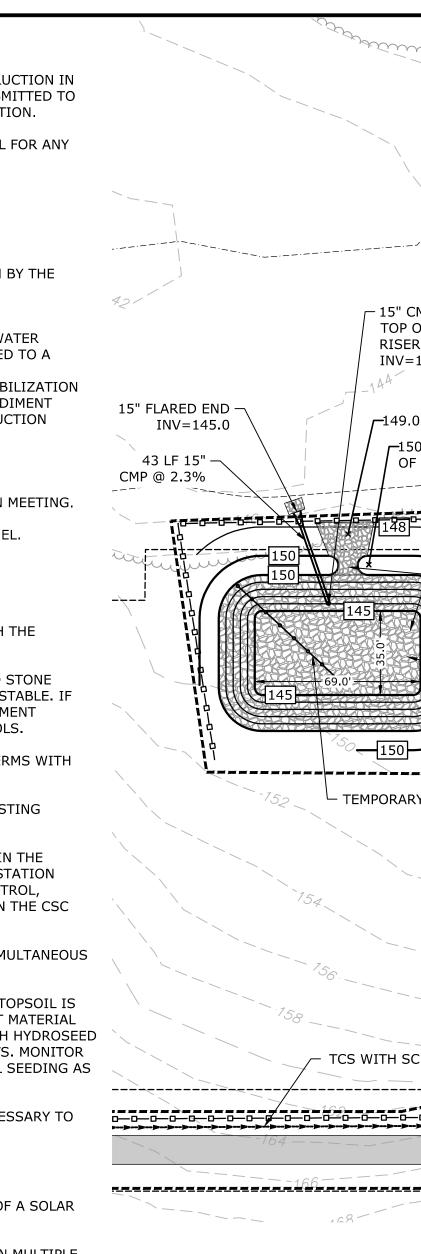
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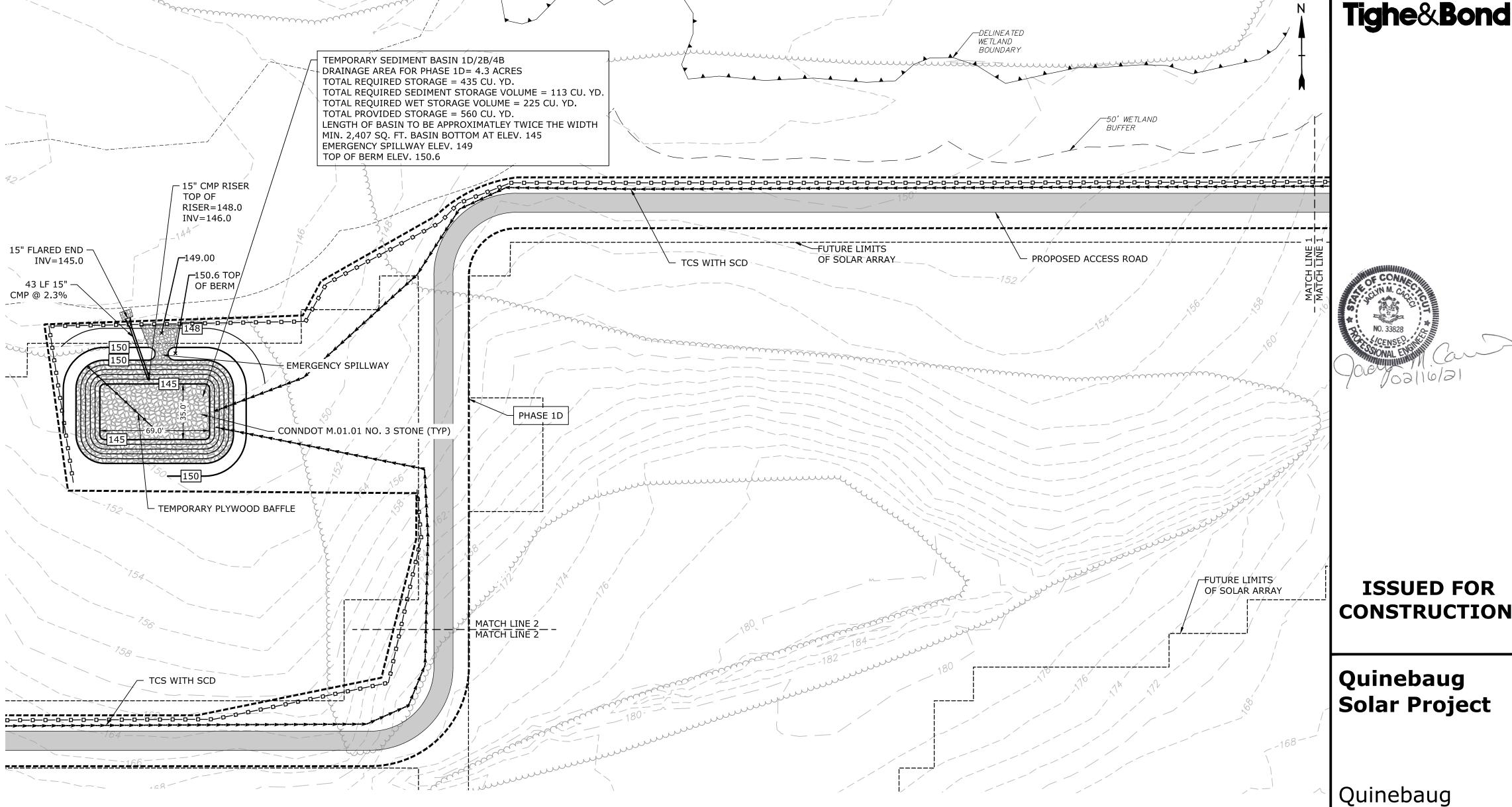
VERNAL POOL DELINEATED WETLAND EXISTING LIMIT OF VEGETATION PROPOSED LIMIT OF VEGETATION PHASE LIMIT LINE

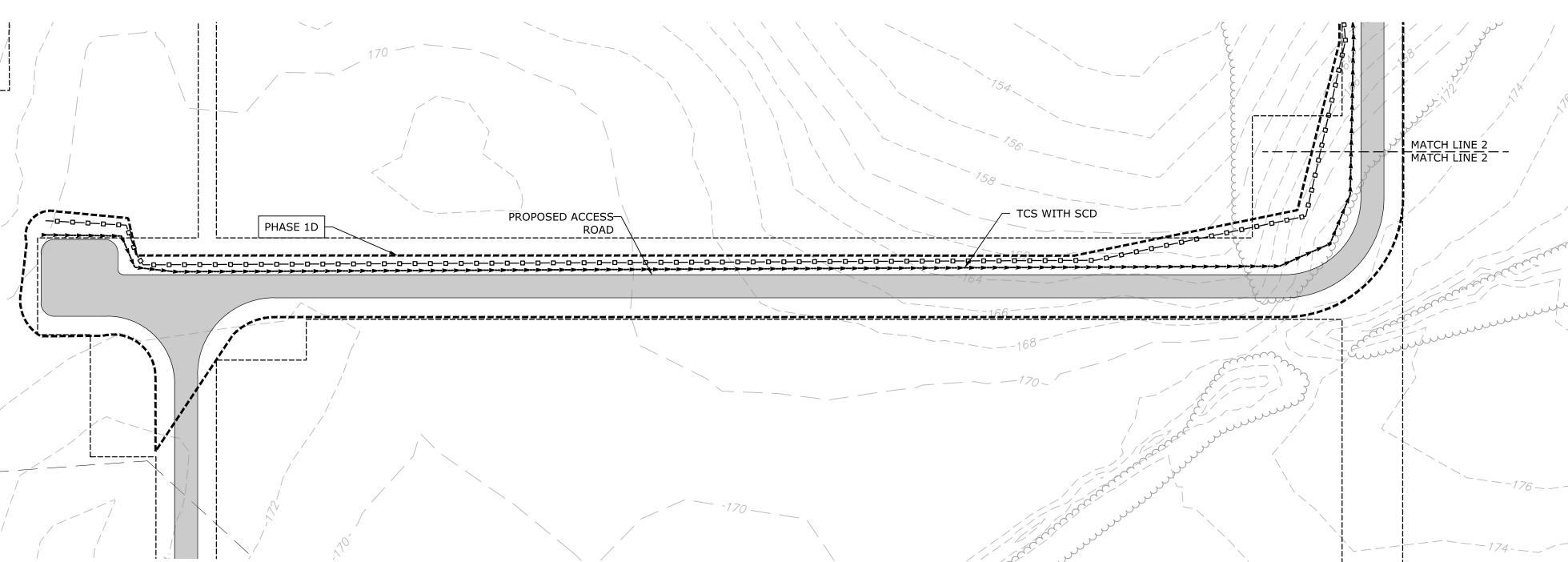
FUTURE LIMIT OF SOLAR ARRAY PERIMETER EROSION CONTROL TEMP. CONVEYANCE SWALE WITH SCD

TEMPORARY SOIL STOCKPILE

SCD STONE CHECK DAM TCS TEMP. CONVEYANCE SWALE









# Quinebaug Solar Project

Quinebaug Solar, LLC

Brooklyn & Canterbury, Connecticut

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| 1                   | 2/12/2021 | PER CT DEEP COMMENT |
|---------------------|-----------|---------------------|
| MARK                | DATE      | DESCRIPTION         |
| PROJECT NO:         |           | R0317               |
| DATE:               |           | 12/2020             |
| FILE: SESC Plans_10 |           | 0.dwg               |
| DRAWN BY:           |           | ALG                 |
| CHECKED:            |           | BSH/JEC             |
| APPROVED:           |           | FJH                 |
|                     |           |                     |

SOIL EROSION AND SEDIMENT CONTROL PLAN - 1DB

1" = 40'

SESC-8

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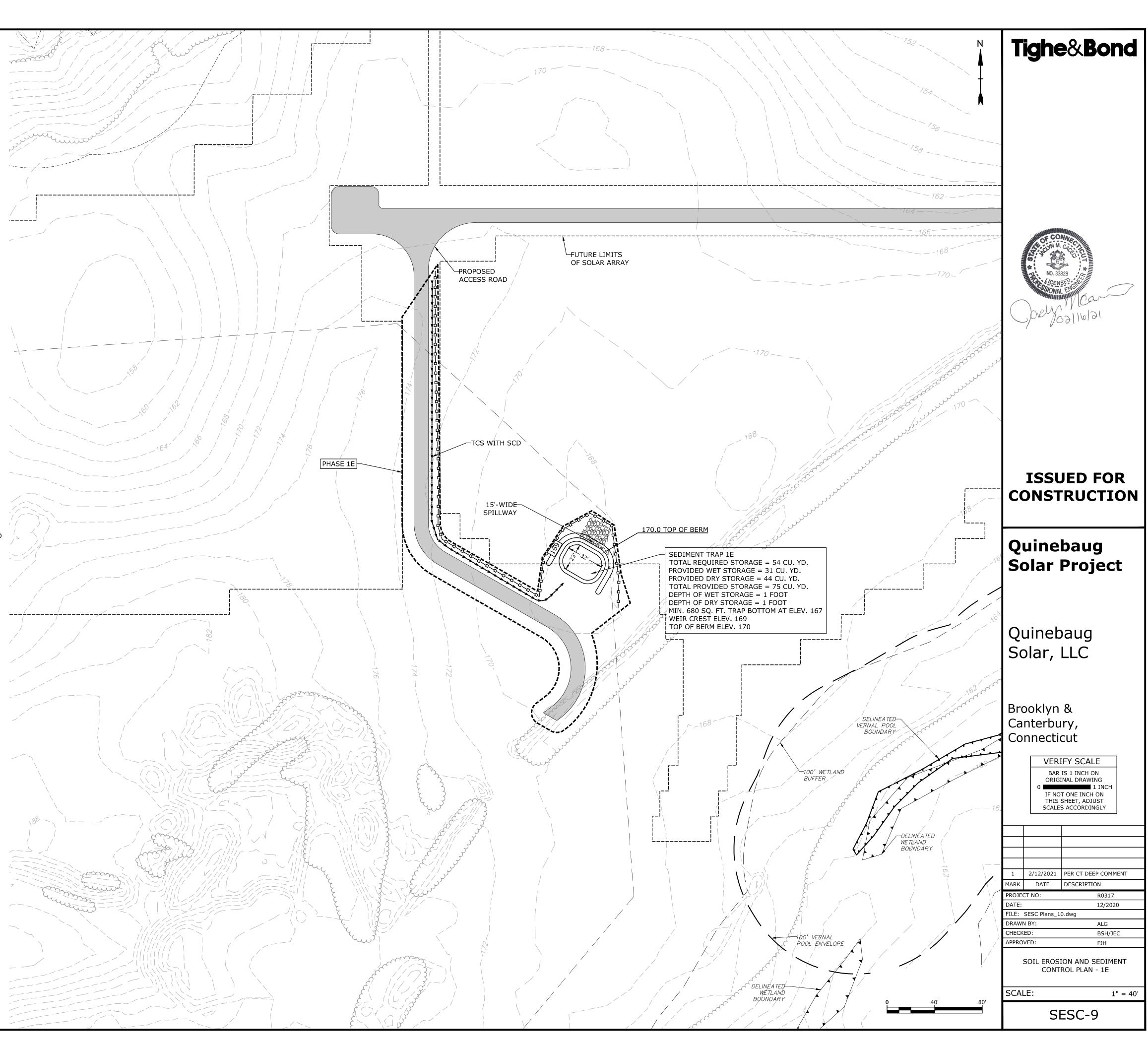
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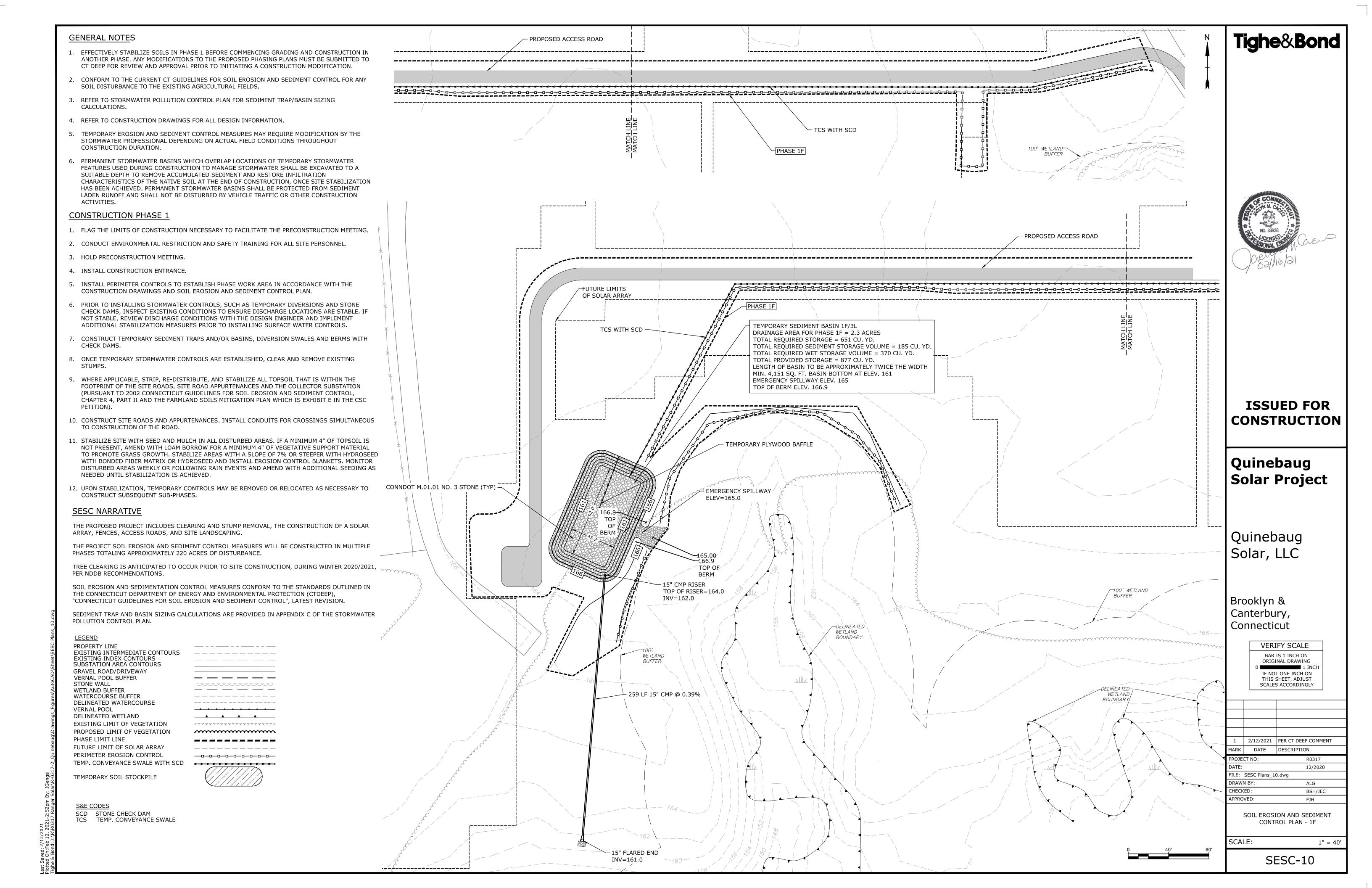
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PERIMETER EROSION CONTROL TEMP. CONVEYANCE SWALE WITH SCD

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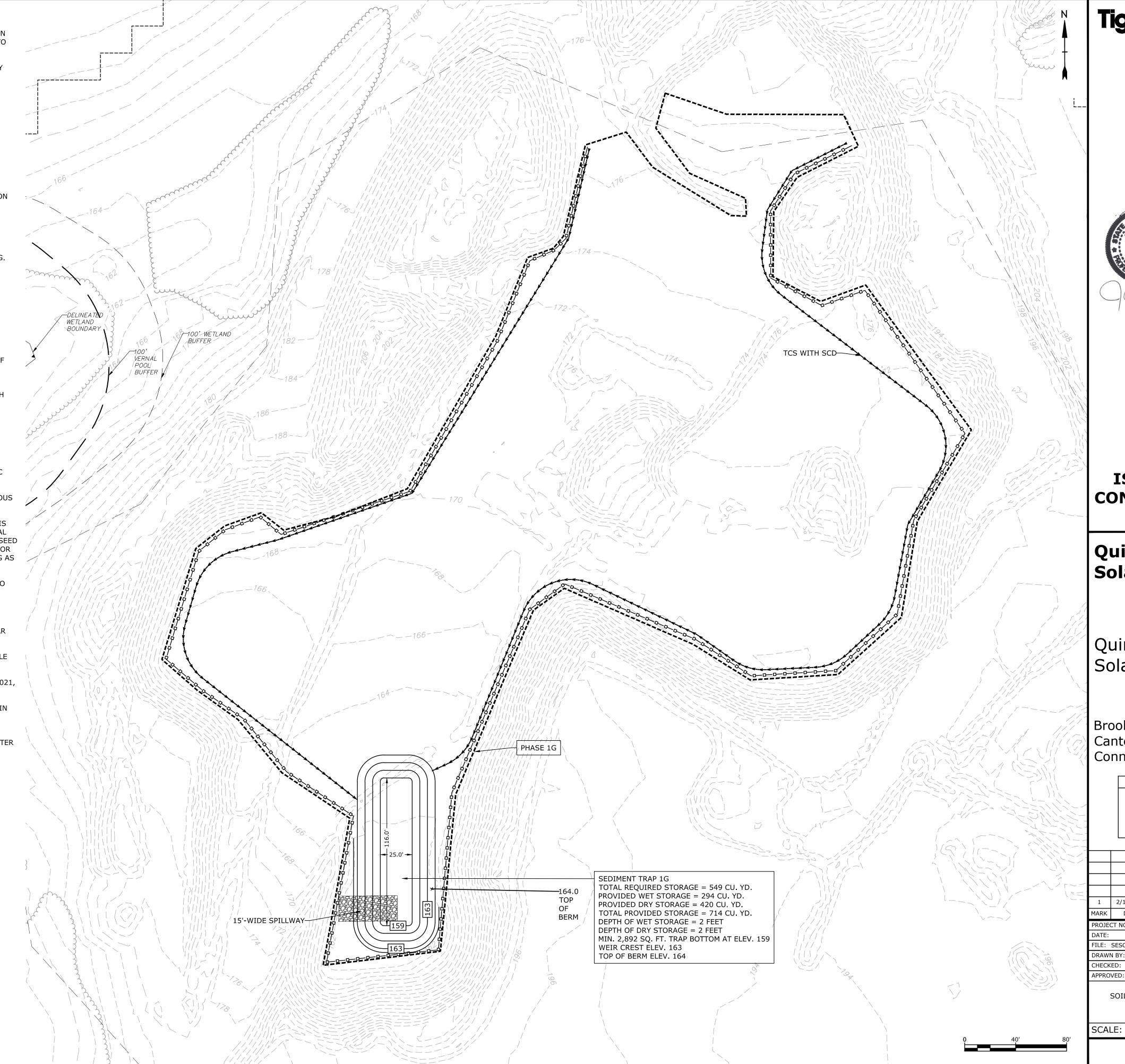
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| MARK                    | DATE      | DESCRIPTION         |
| PROJECT NO:             |           | R0317               |
| DATE:                   |           | 12/2020             |
| FILE: SESC Plans_10.dwg |           |                     |
| DRAWN BY:               |           | ALG                 |
| CHECKED:                |           | BSH/JEC             |

SOIL EROSION AND SEDIMENT CONTROL PLAN - 1G

SESC-11

- 1. EFFECTIVELY STABILIZE SOILS IN PHASE 1 BEFORE COMMENCING GRADING AND CONSTRUCTION IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION.
- 2. CONFORM TO THE CURRENT CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL FOR ANY SOIL DISTURBANCE TO THE EXISTING AGRICULTURAL FIELDS.
- REFER TO STORMWATER POLLUTION CONTROL PLAN FOR SEDIMENT TRAP/BASIN SIZING CALCULATIONS.
- 4. REFER TO CONSTRUCTION DRAWINGS FOR ALL DESIGN INFORMATION.
- 5. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY REQUIRE MODIFICATION BY THE STORMWATER PROFESSIONAL DEPENDING ON ACTUAL FIELD CONDITIONS THROUGHOUT CONSTRUCTION DURATION.
- PERMANENT STORMWATER BASINS WHICH OVERLAP LOCATIONS OF TEMPORARY STORMWATER FEATURES USED DURING CONSTRUCTION TO MANAGE STORMWATER SHALL BE EXCAVATED TO A SUITABLE DEPTH TO REMOVE ACCUMULATED SEDIMENT AND RESTORE INFILTRATION CHARACTERISTICS OF THE NATIVE SOIL AT THE END OF CONSTRUCTION, ONCE SITE STABILIZATION HAS BEEN ACHIEVED. PERMANENT STORMWATER BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN RUNOFF AND SHALL NOT BE DISTURBED BY VEHICLE TRAFFIC OR OTHER CONSTRUCTION

#### **CONSTRUCTION PHASE 1**

- 1. FLAG THE LIMITS OF CONSTRUCTION NECESSARY TO FACILITATE THE PRECONSTRUCTION MEETING.
- 2. CONDUCT ENVIRONMENTAL RESTRICTION AND SAFETY TRAINING FOR ALL SITE PERSONNEL
- HOLD PRECONSTRUCTION MEETING.
- 4. INSTALL CONSTRUCTION ENTRANCE.
- 5. INSTALL PERIMETER CONTROLS TO ESTABLISH PHASE WORK AREA IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND SOIL EROSION AND SEDIMENT CONTROL PLAN.
- 6. PRIOR TO INSTALLING STORMWATER CONTROLS, SUCH AS TEMPORARY DIVERSIONS AND STONE CHECK DAMS, INSPECT EXISTING CONDITIONS TO ENSURE DISCHARGE LOCATIONS ARE STABLE. IF NOT STABLE, REVIEW DISCHARGE CONDITIONS WITH THE DESIGN ENGINEER AND IMPLEMENT ADDITIONAL STABILIZATION MEASURES PRIOR TO INSTALLING SURFACE WATER CONTROLS.
- 7. CONSTRUCT TEMPORARY SEDIMENT TRAPS AND/OR BASINS, DIVERSION SWALES AND BERMS WITH CHECK DAMS.
- 8. ONCE TEMPORARY STORMWATER CONTROLS ARE ESTABLISHED, CLEAR AND REMOVE EXISTING STUMPS.
- 9. WHERE APPLICABLE, STRIP, RE-DISTRIBUTE, AND STABILIZE ALL TOPSOIL THAT IS WITHIN THE FOOTPRINT OF THE SITE ROADS, SITE ROAD APPURTENANCES AND THE COLLECTOR SUBSTATION (PURSUANT TO 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, CHAPTER 4, PART II AND THE FARMLAND SOILS MITIGATION PLAN WHICH IS EXHIBIT E IN THE CSC PETITION).
- 10. CONSTRUCT SITE ROADS AND APPURTENANCES. INSTALL CONDUITS FOR CROSSINGS SIMULTANEOUS TO CONSTRUCTION OF THE ROAD.
- 11. STABILIZE SITE WITH SEED AND MULCH IN ALL DISTURBED AREAS. IF A MINIMUM 4" OF TOPSOIL IS NOT PRESENT, AMEND WITH LOAM BORROW FOR A MINIMUM 4" OF VEGETATIVE SUPPORT MATERIAL TO PROMOTE GRASS GROWTH. STABILIZE AREAS WITH A SLOPE OF 7% OR STEEPER WITH HYDROSEED WITH BONDED FIBER MATRIX OR HYDROSEED AND INSTALL EROSION CONTROL BLANKETS. MONITOR DISTURBED AREAS WEEKLY OR FOLLOWING RAIN EVENTS AND AMEND WITH ADDITIONAL SEEDING AS NEEDED UNTIL STABILIZATION IS ACHIEVED.
- 12. UPON STABILIZATION, TEMPORARY CONTROLS MAY BE REMOVED OR RELOCATED AS NECESSARY TO CONSTRUCT SUBSEQUENT SUB-PHASES.

#### SESC NARRATIVE

THE PROPOSED PROJECT INCLUDES CLEARING AND STUMP REMOVAL, THE CONSTRUCTION OF A SOLAR ARRAY, FENCES, ACCESS ROADS, AND SITE LANDSCAPING.

THE PROJECT SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN MULTIPLE PHASES TOTALING APPROXIMATELY 220 ACRES OF DISTURBANCE.

TREE CLEARING IS ANTICIPATED TO OCCUR PRIOR TO SITE CONSTRUCTION, DURING WINTER 2020/2021, PER NDDB RECOMMENDATIONS. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES CONFORM TO THE STANDARDS OUTLINED IN

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SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER POLLUTION CONTROL PLAN.

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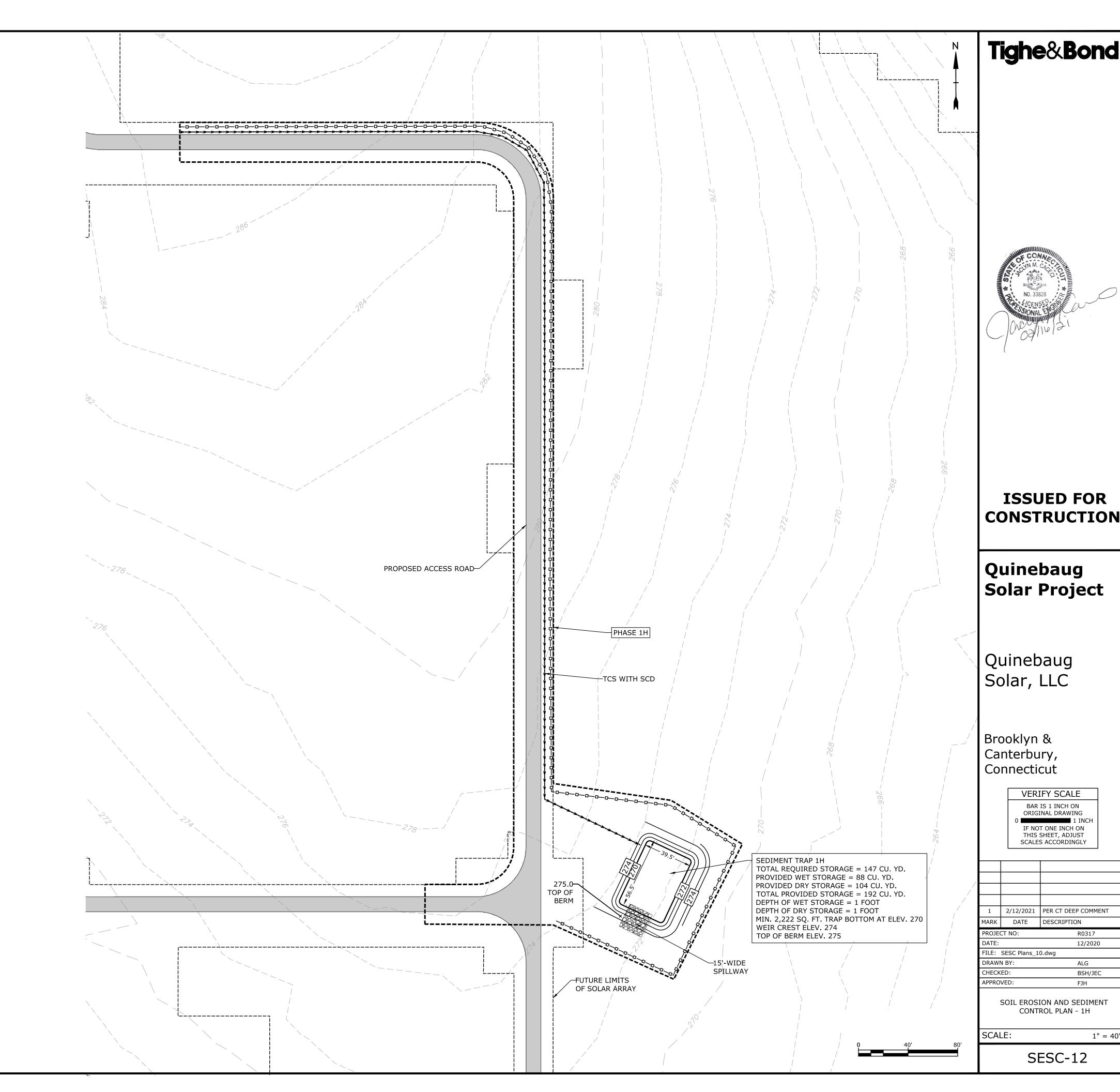
PROPERTY LINE EXISTING INTERMEDIATE CONTOURS EXISTING INDEX CONTOURS SUBSTATION AREA CONTOURS GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER STONE WALL WETLAND BUFFER WATERCOURSE BUFFER DELINEATED WATERCOURSE VERNAL POOL DELINEATED WETLAND

EXISTING LIMIT OF VEGETATION PROPOSED LIMIT OF VEGETATION PHASE LIMIT LINE

FUTURE LIMIT OF SOLAR ARRAY PERIMETER EROSION CONTROL TEMP. CONVEYANCE SWALE WITH SCD

TEMPORARY SOIL STOCKPILE

SCD STONE CHECK DAM TCS TEMP. CONVEYANCE SWALE



R0317

AI G

FJH

12/2020

BSH/1FC

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| LEGEND                            |
|-----------------------------------|
| PROPERTY LINE                     |
| <b>EXISTING INTERMEDIATE CONT</b> |
| EXISTING INDEX CONTOURS           |
| SUBSTATION AREA CONTOURS          |
| GRAVEL ROAD/DRIVEWAY              |
| VERNAL POOL BUFFER                |
| STONE WALL                        |
| WETLAND BUFFER                    |
| WATERCOURSE BUFFER                |
| DELINEATED WATERCOURSE            |
| VERNAL POOL                       |
| DELINEATED WETLAND                |
|                                   |

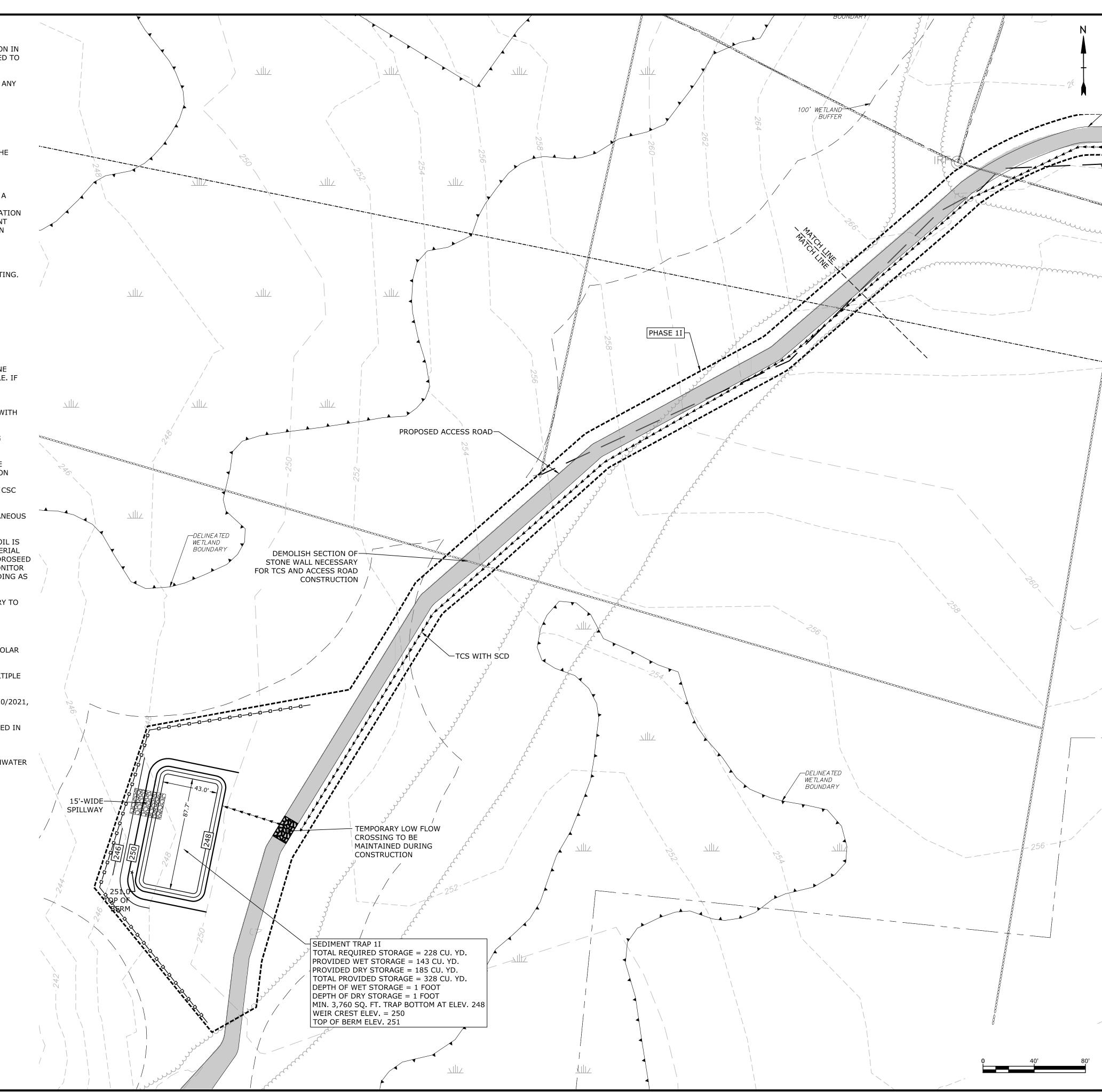
EXISTING LIMIT OF VEGETATION PROPOSED LIMIT OF VEGETATION PHASE LIMIT LINE FUTURE LIMIT OF SOLAR ARRAY

\_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_\_ PERIMETER EROSION CONTROL TEMP. CONVEYANCE SWALE WITH SCD

TEMPORARY SOIL STOCKPILE

S&E CODES

SCD STONE CHECK DAM TCS TEMP. CONVEYANCE SWALE



Tighe&Bond

**ISSUED FOR** 

CONSTRUCTION

Quinebaug Solar Project

Quinebaug Solar, LLC

Brooklyn &

Canterbury,

Connecticut

**VERIFY SCALE** 

BAR IS 1 INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET, ADJUST

SCALES ACCORDINGLY

1 2/12/2021 PER CT DEEP COMMENT

SOIL EROSION AND SEDIMENT

CONTROL PLAN - 1IA

SESC-13

R0317

AI G

FJH

BSH/1FC

1" = 40'

12/2020

MARK DATE DESCRIPTION

FILE: SESC Plans\_10.dwg

PROJECT NO:

DRAWN BY:

CHECKED:

PPROVED:

SCALE:

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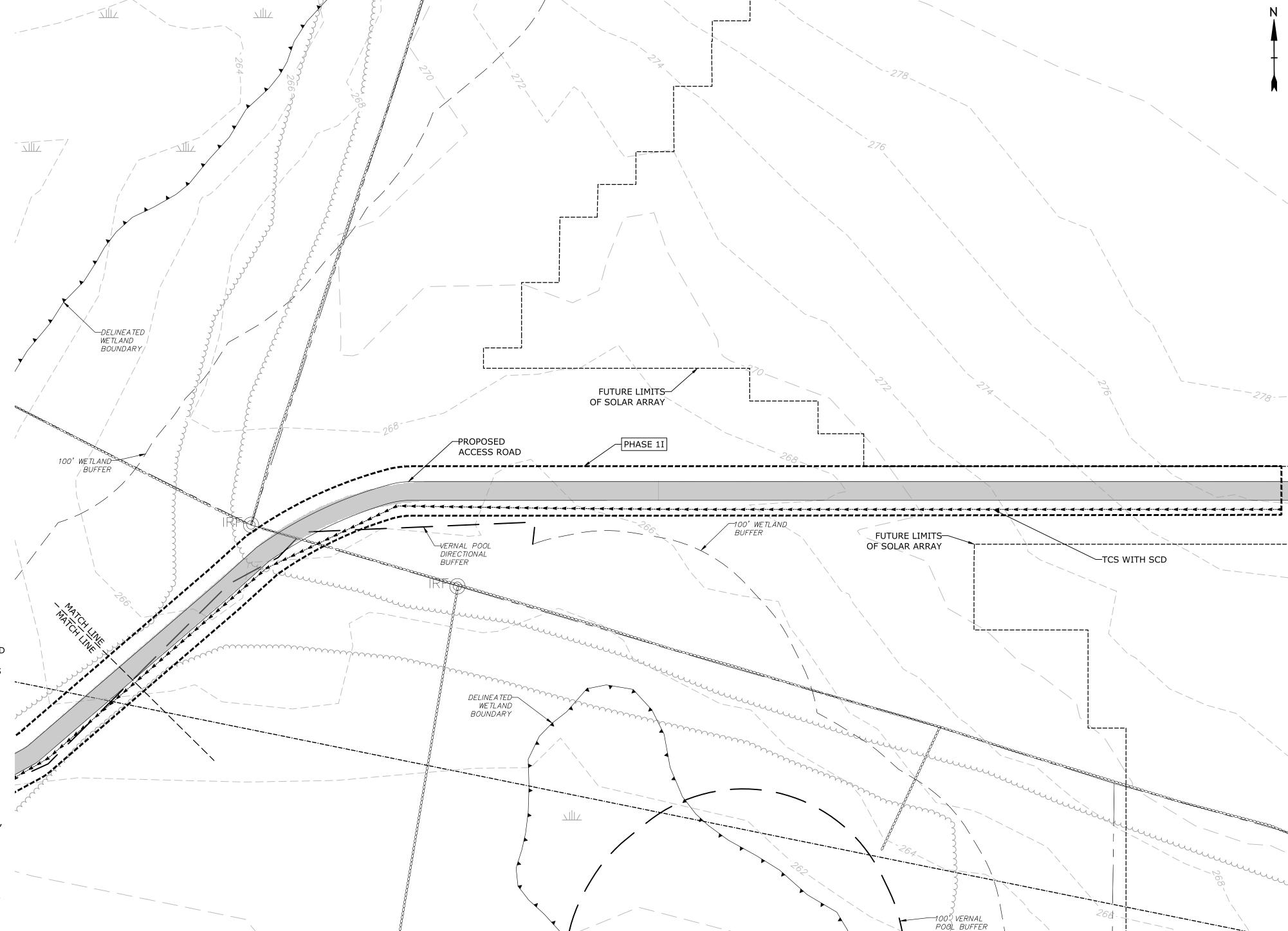
PROPERTY LINE EXISTING INTERMEDIATE CONTOURS EXISTING INDEX CONTOURS SUBSTATION AREA CONTOURS GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER STONE WALL WETLAND BUFFER WATERCOURSE BUFFER DELINEATED WATERCOURSE VERNAL POOL DELINEATED WETLAND

EXISTING LIMIT OF VEGETATION PROPOSED LIMIT OF VEGETATION PHASE LIMIT LINE FUTURE LIMIT OF SOLAR ARRAY PERIMETER EROSION CONTROL

TEMP. CONVEYANCE SWALE WITH SCD TEMPORARY SOIL STOCKPILE

SCD STONE CHECK DAM TCS TEMP. CONVEYANCE SWALE

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# Tighe&Bond



## **ISSUED FOR CONSTRUCTION**

# Quinebaug Solar Project

Quinebaug Solar, LLC

Brooklyn & Canterbury, Connecticut

> VERIFY SCALE BAR IS 1 INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

| 1      | 2/12/2021    | PER CT DEEP COMMENT |
|--------|--------------|---------------------|
| MARK   | DATE         | DESCRIPTION         |
| PROJEC | CT NO:       | R0317               |
| DATE:  |              | 12/2020             |
| FILE:  | SESC Plans_1 | 0.dwg               |
| DRAWI  | N BY:        | ALG                 |
| CHECK  | ED:          | BSH/JEC             |
| APPRO' | VED:         | FJH                 |

SOIL EROSION AND SEDIMENT CONTROL PLAN - 1IB

SCALE:

SESC-14

#### Tighe&Bond **GENERAL NOTES** MATCH LINE \_\_ \_ \_ MATCH LINE 1. EFFECTIVELY STABILIZE SOILS IN PHASE 1 BEFORE COMMENCING GRADING AND CONSTRUCTION IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION. PHASE 1J 2. CONFORM TO THE CURRENT CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL FOR ANY SOIL DISTURBANCE TO THE EXISTING AGRICULTURAL FIELDS. -----3. REFER TO STORMWATER POLLUTION CONTROL PLAN FOR SEDIMENT TRAP/BASIN SIZING TCS WITH SCD-CALCULATIONS. →PROPOSED 4. REFER TO CONSTRUCTION DRAWINGS FOR ALL DESIGN INFORMATION. ACCESS ROAD TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY REQUIRE MODIFICATION BY THE STORMWATER PROFESSIONAL DEPENDING ON ACTUAL FIELD CONDITIONS THROUGHOUT CONSTRUCTION DURATION. 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FT. TRAP BOTTOM AT ELEV. 242 PROPERTY LINE WEIR CREST ELEV. 246 EXISTING INTERMEDIATE CONTOURS BAR IS 1 INCH ON EXISTING INDEX CONTOURS TOP OF BERM ELEV. 247 247.0 TOP-ORIGINAL DRAWING SUBSTATION AREA CONTOURS OF BERM GRAVEL ROAD/DRIVEWAY IF NOT ONE INCH ON VERNAL POOL BUFFER THIS SHEET, ADJUST STONE WALL -000000000000 SCALES ACCORDINGLY WETLAND BUFFER WATERCOURSE BUFFER \_\_\_\_\_\_ DELINEATED WATERCOURSE **VERNAL POOL** DELINEATED WETLAND -STABILIZED \_\_\_\_\_ CONSTRUCTION EXISTING LIMIT OF VEGETATION m—DELINEATED ENTRANCE PROPOSED LIMIT OF VEGETATION mBOUNDARY PHASE LIMIT LINE 1 2/12/2021 PER CT DEEP COMMENT FUTURE LIMIT OF SOLAR ARRAY MARK DATE DESCRIPTION PERIMETER EROSION CONTROL -----PROJECT NO: R0317 TEMP. CONVEYANCE SWALE WITH SCD 12/2020 FILE: SESC Plans\_10.dwg TEMPORARY SOIL STOCKPILE DRAWN BY: AI G CHECKED: WETLAND BSH/1FC PPROVED: FJH S&E CODES SCD STONE CHECK DAM SOIL EROSION AND SEDIMENT TCS TEMP. CONVEYANCE SWALE CONTROL PLAN - 1J SCALE: 1" = 40' SESC-15

Last Saved: 2/12/2021 Plotted On: Feb 12, 2021-2: 58pm By: 1Genda

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- PERMANENT STORMWATER BASINS WHICH OVERLAP LOCATIONS OF TEMPORARY STORMWATER FEATURES USED DURING CONSTRUCTION TO MANAGE STORMWATER SHALL BE EXCAVATED TO A SUITABLE DEPTH TO REMOVE ACCUMULATED SEDIMENT AND RESTORE INFILTRATION CHARACTERISTICS OF THE NATIVE SOIL AT THE END OF CONSTRUCTION, ONCE SITE STABILIZATION HAS BEEN ACHIEVED. PERMANENT STORMWATER BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN RUNOFF AND SHALL NOT BE DISTURBED BY VEHICLE TRAFFIC OR OTHER CONSTRUCTION

#### **CONSTRUCTION PHASE 1**

- 1. FLAG THE LIMITS OF CONSTRUCTION NECESSARY TO FACILITATE THE PRECONSTRUCTION MEETING
- 2. CONDUCT ENVIRONMENTAL RESTRICTION AND SAFETY TRAINING FOR ALL SITE PERSONNEL
- HOLD PRECONSTRUCTION MEETING.
- 4. INSTALL CONSTRUCTION ENTRANCE.
- 5. INSTALL PERIMETER CONTROLS TO ESTABLISH PHASE WORK AREA IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND SOIL EROSION AND SEDIMENT CONTROL PLAN.
- 6. PRIOR TO INSTALLING STORMWATER CONTROLS, SUCH AS TEMPORARY DIVERSIONS AND STONE CHECK DAMS, INSPECT EXISTING CONDITIONS TO ENSURE DISCHARGE LOCATIONS ARE STABLE. IF NOT STABLE, REVIEW DISCHARGE CONDITIONS WITH THE DESIGN ENGINEER AND IMPLEMENT ADDITIONAL STABILIZATION MEASURES PRIOR TO INSTALLING SURFACE WATER CONTROLS.
- 7. CONSTRUCT TEMPORARY SEDIMENT TRAPS AND/OR BASINS, DIVERSION SWALES AND BERMS WITH CHECK DAMS.
- 8. ONCE TEMPORARY STORMWATER CONTROLS ARE ESTABLISHED, CLEAR AND REMOVE EXISTING STUMPS.
- 9. WHERE APPLICABLE, STRIP, RE-DISTRIBUTE, AND STABILIZE ALL TOPSOIL THAT IS WITHIN THE FOOTPRINT OF THE SITE ROADS, SITE ROAD APPURTENANCES AND THE COLLECTOR SUBSTATION (PURSUANT TO 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, CHAPTER 4, PART II AND THE FARMLAND SOILS MITIGATION PLAN WHICH IS EXHIBIT E IN THE CSC
- 10. CONSTRUCT SITE ROADS AND APPURTENANCES. INSTALL CONDUITS FOR CROSSINGS SIMULTANEOUS TO CONSTRUCTION OF THE ROAD.
- 11. STABILIZE SITE WITH SEED AND MULCH IN ALL DISTURBED AREAS. IF A MINIMUM 4" OF TOPSOIL IS TO PROMOTE GRASS GROWTH. STABILIZE AREAS WITH A SLOPE OF 7% OR STEEPER WITH HYDROSEED WITH BONDED FIBER MATRIX OR HYDROSEED AND INSTALL EROSION CONTROL BLANKETS. MONITOR DISTURBED AREAS WEEKLY OR FOLLOWING RAIN EVENTS AND AMEND WITH ADDITIONAL SEEDING AS NEEDED UNTIL STABILIZATION IS ACHIEVED.
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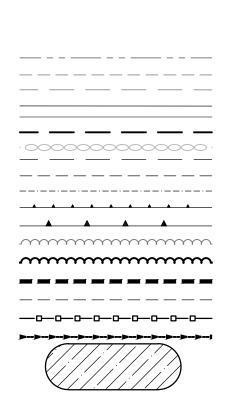
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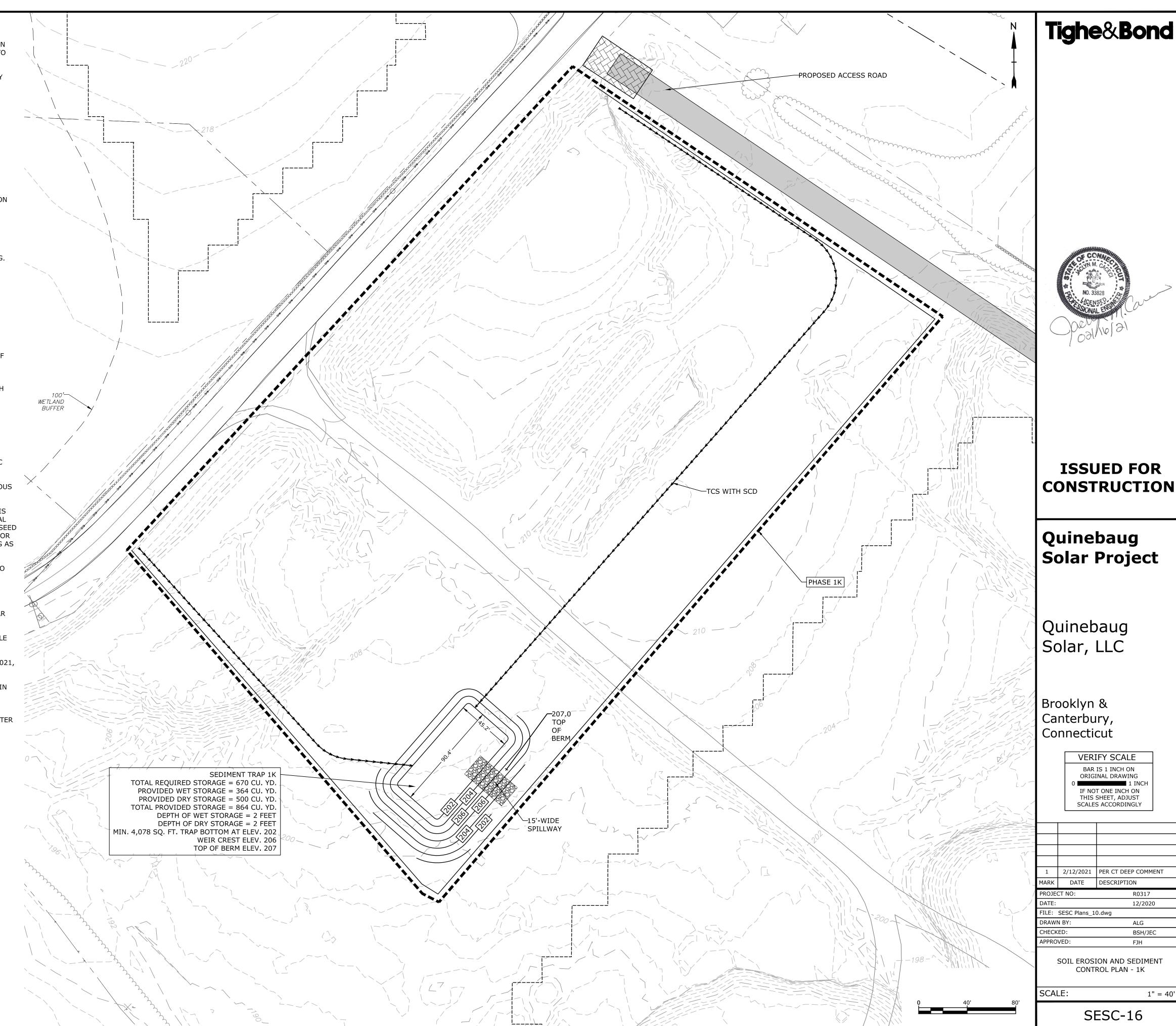
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TEMPORARY SOIL STOCKPILE

SCD STONE CHECK DAM TCS TEMP. CONVEYANCE SWALE





**VERIFY SCALE** 

BAR IS 1 INCH ON

ORIGINAL DRAWING

IF NOT ONE INCH ON

THIS SHEET, ADJUST

SCALES ACCORDINGLY

R0317

AI G

FJH

CONTROL PLAN - 1K

SESC-16

BSH/1FC

1" = 40'

12/2020

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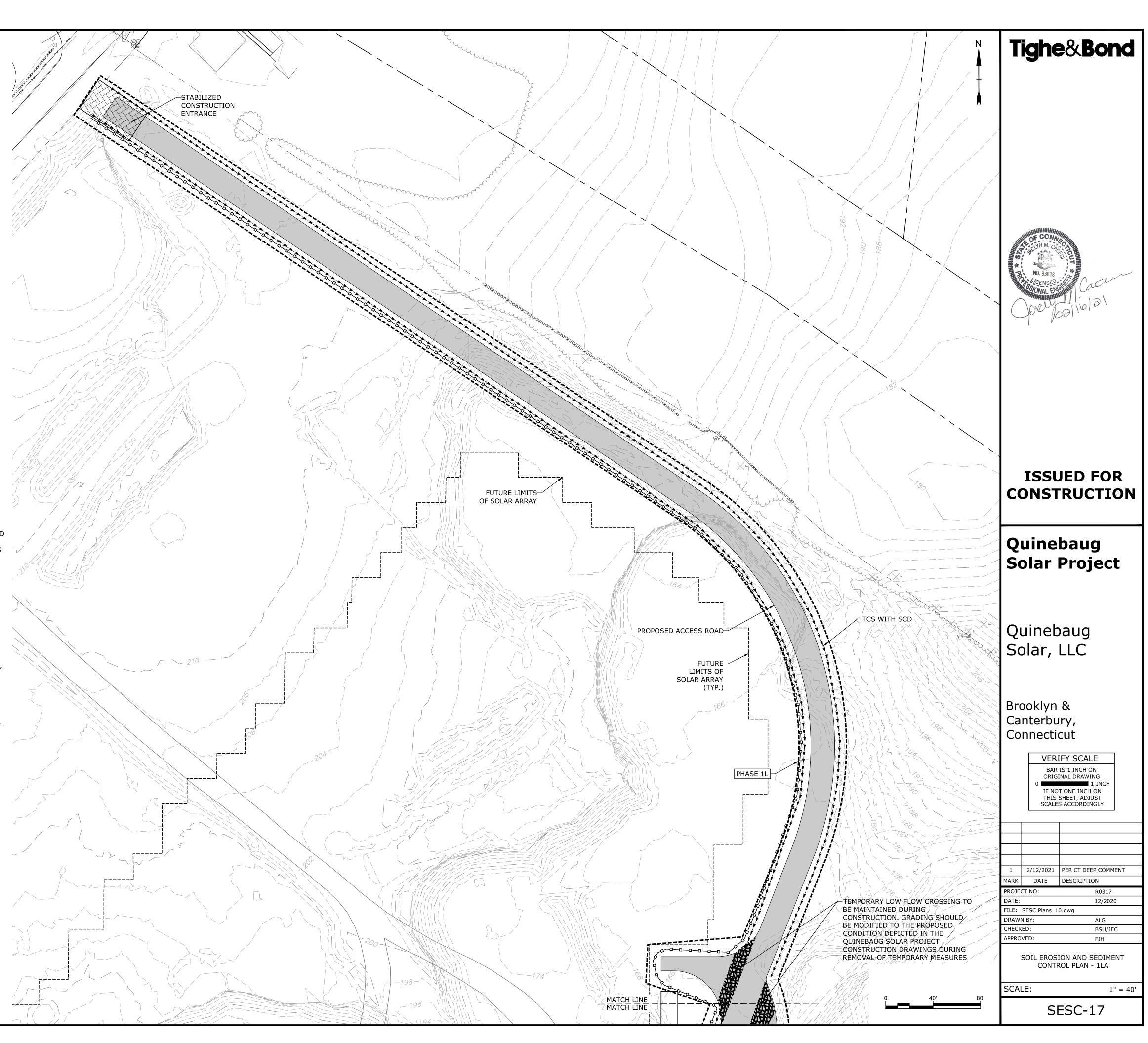
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PERIMETER EROSION CONTROL

TEMP. CONVEYANCE SWALE WITH SCD

TEMPORARY SOIL STOCKPILE





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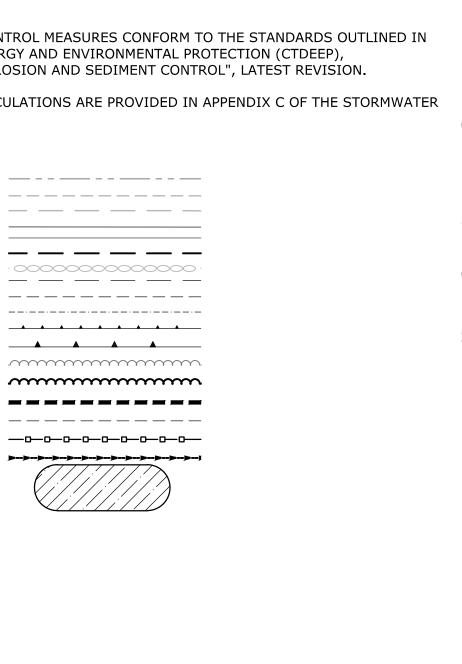
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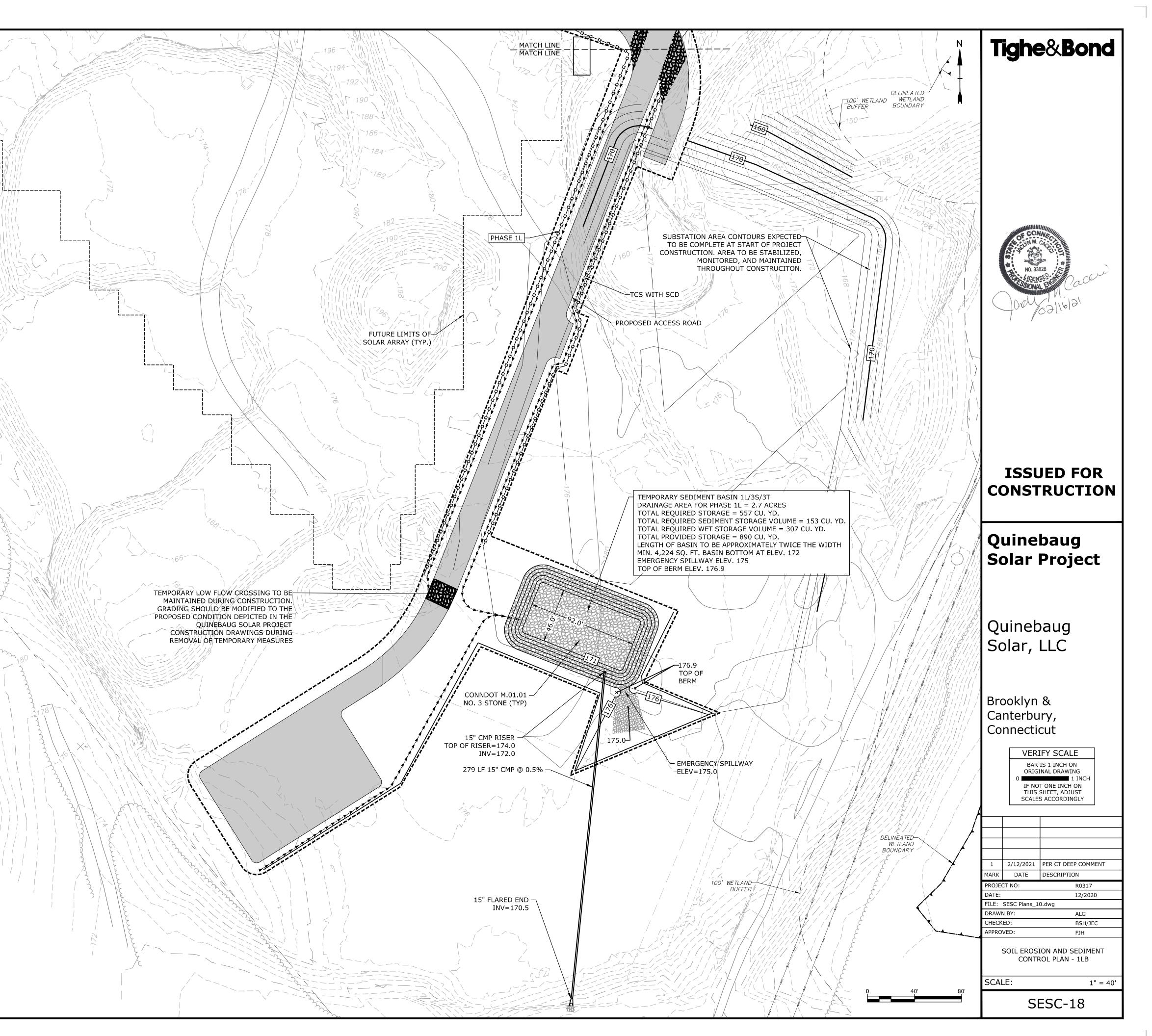
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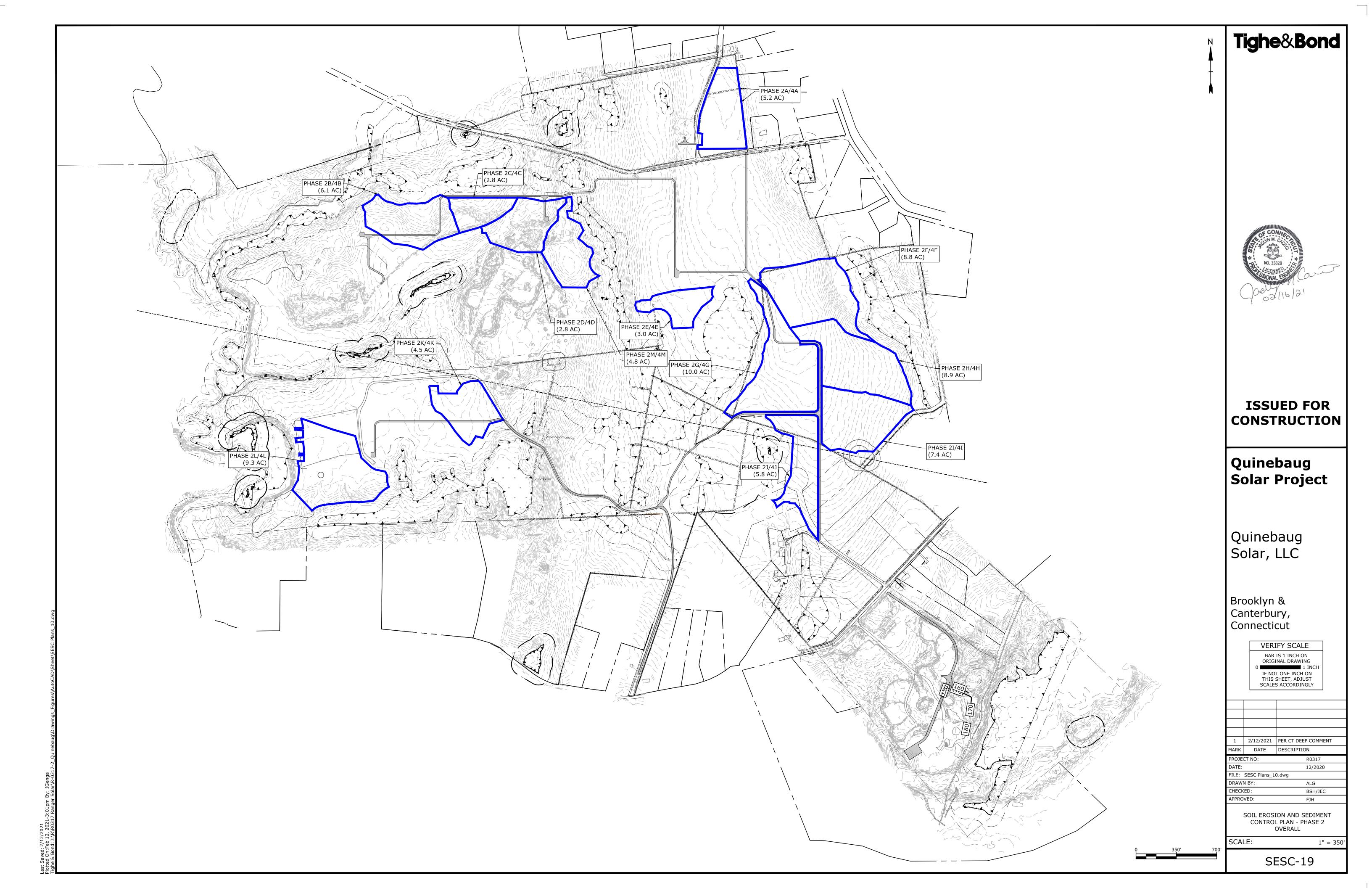
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FUTURE LIMIT OF SOLAR ARRAY PERIMETER EROSION CONTROL TEMP. CONVEYANCE SWALE WITH SCD

TEMPORARY SOIL STOCKPILE







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#### **CONSTRUCTION PHASE 2**

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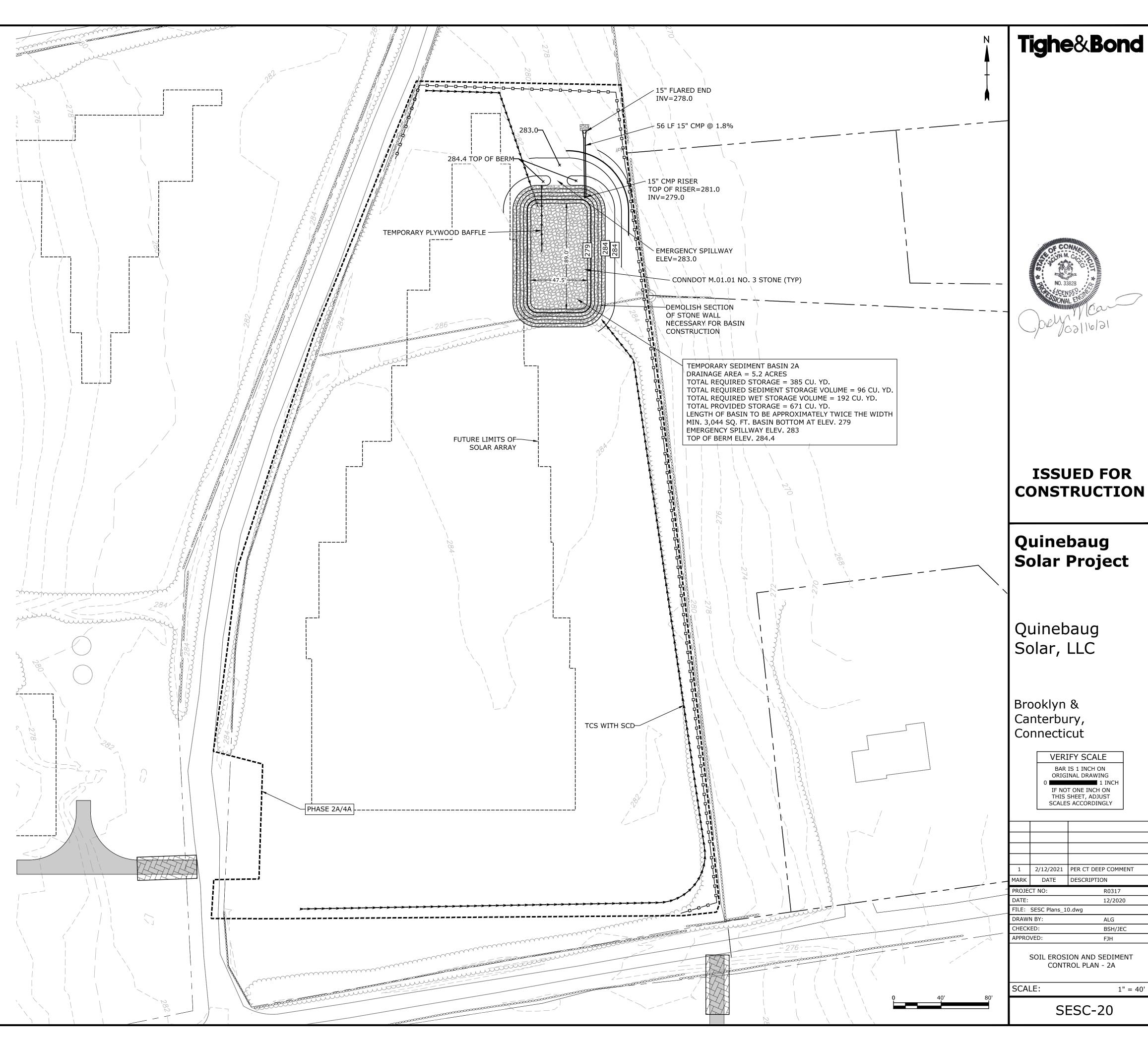
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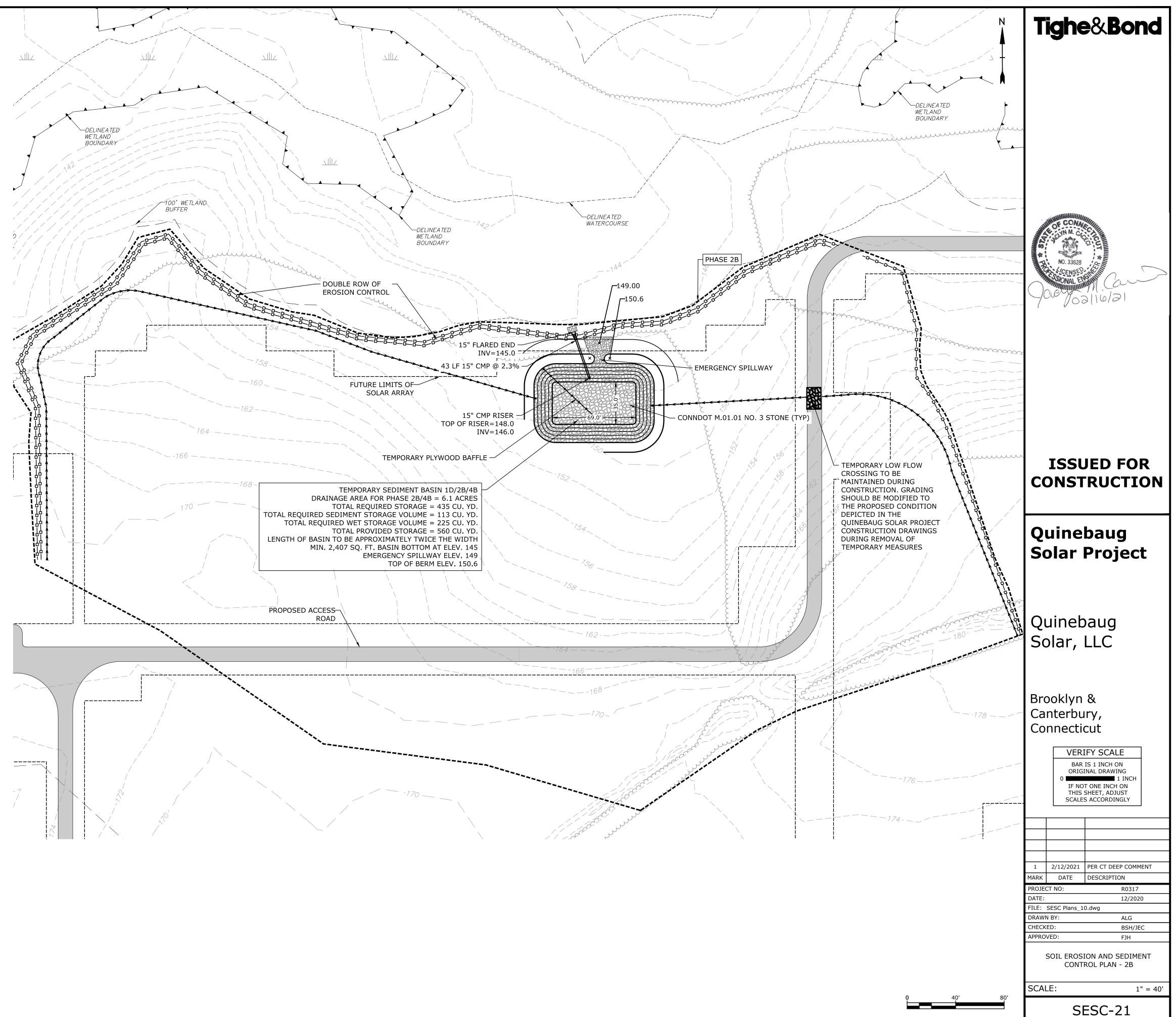
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S&E CODES



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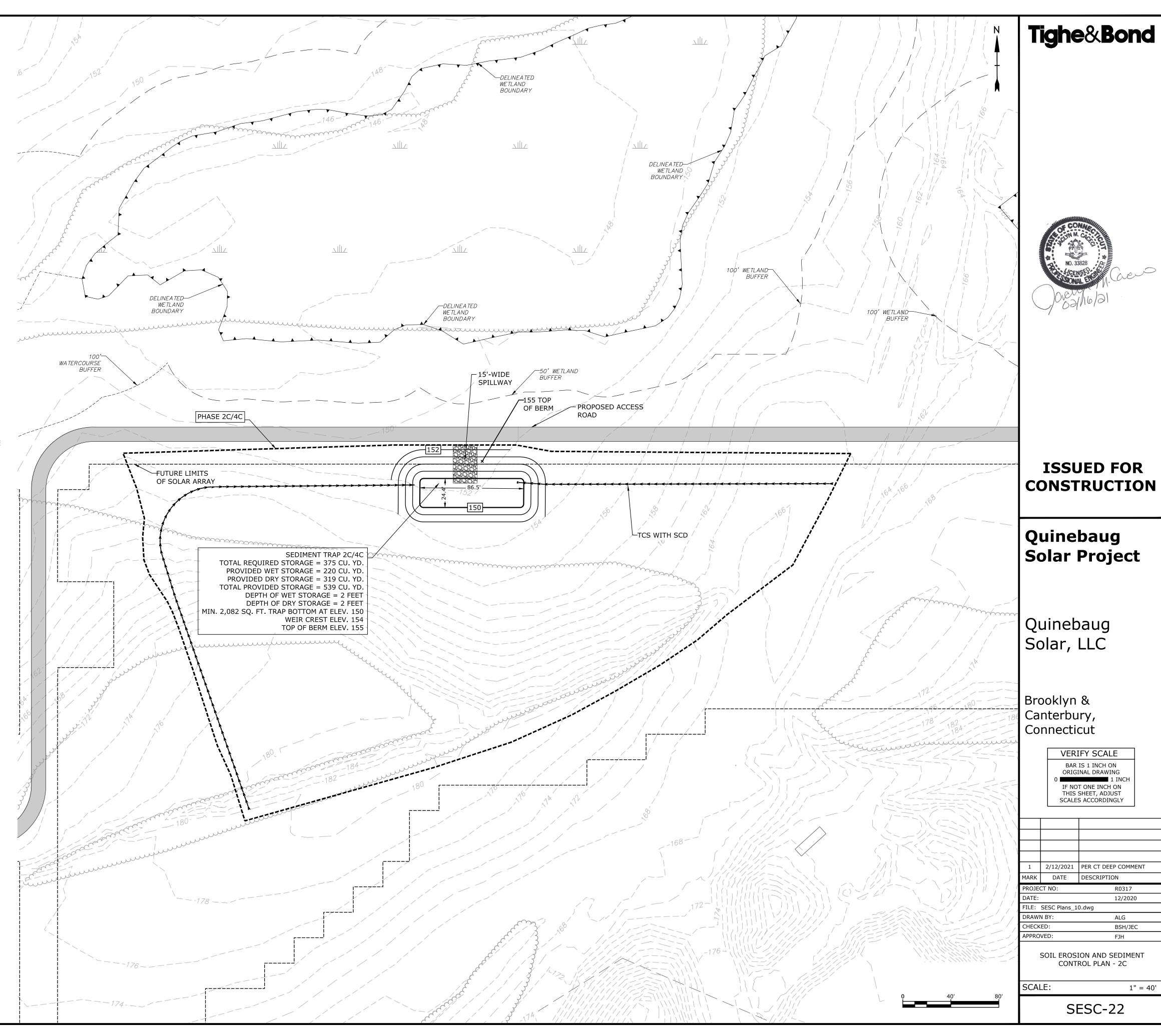
#### <u>LEGEND</u>

PROPERTY LINE EXISTING INTERMEDIATE CONTOURS EXISTING INDEX CONTOURS GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER STONE WALL WETLAND BUFFER WATERCOURSE BUFFER DELINEATED WATERCOURSE VERNAL POOL DELINEATED WETLAND EXISTING LIMIT OF VEGETATION PROPOSED LIMIT OF VEGETATION PHASE LIMIT LINE FUTURE LIMIT OF SOLAR ARRAY PERIMETER EROSION CONTROL TEMP. CONVEYANCE SWALE WITH SCD

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TEMPORARY SOIL STOCKPILE

S&E CODES



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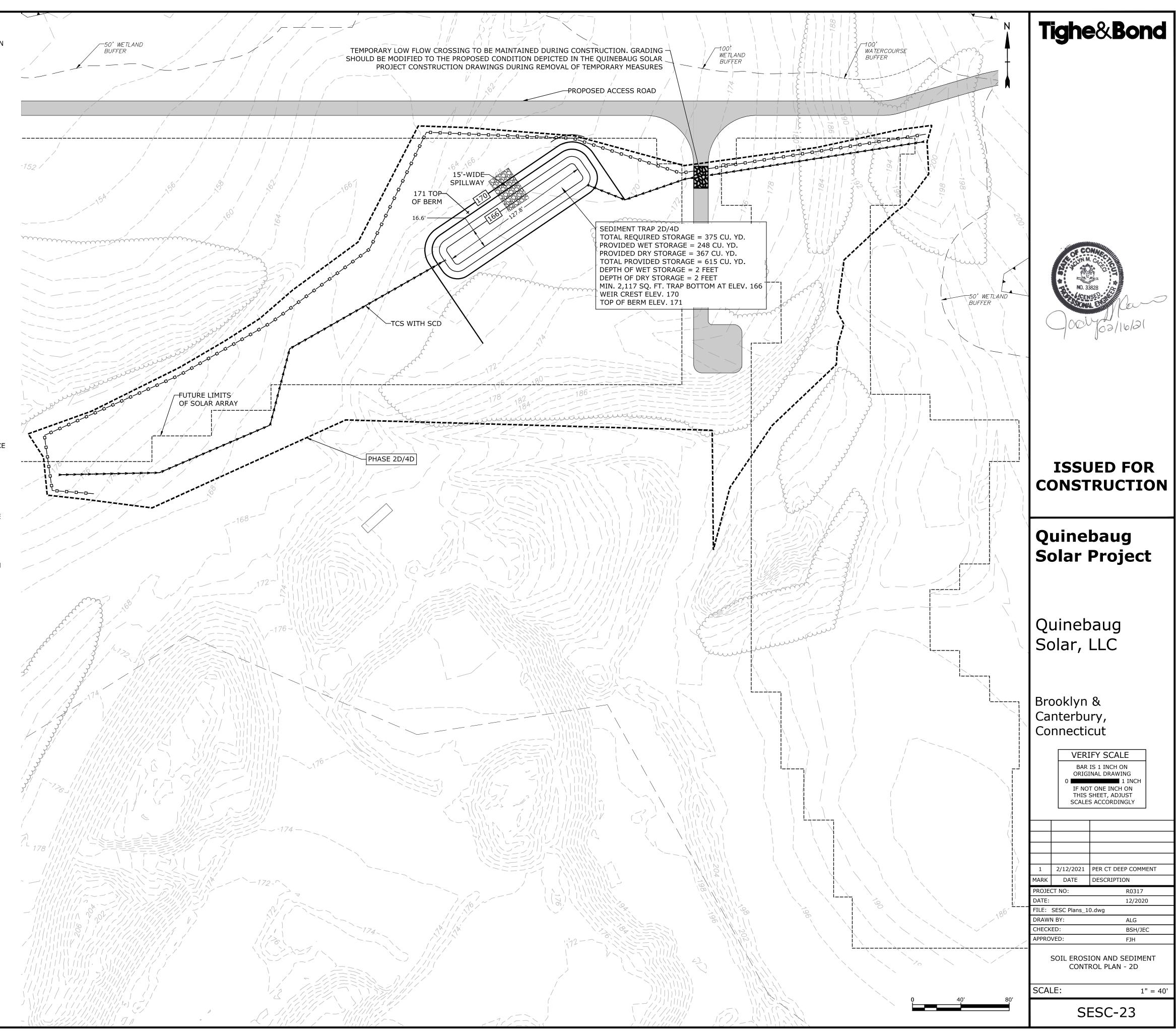
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TEMPORARY SOIL STOCKPILE



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SCALE:

1" = 40'

SESC-24

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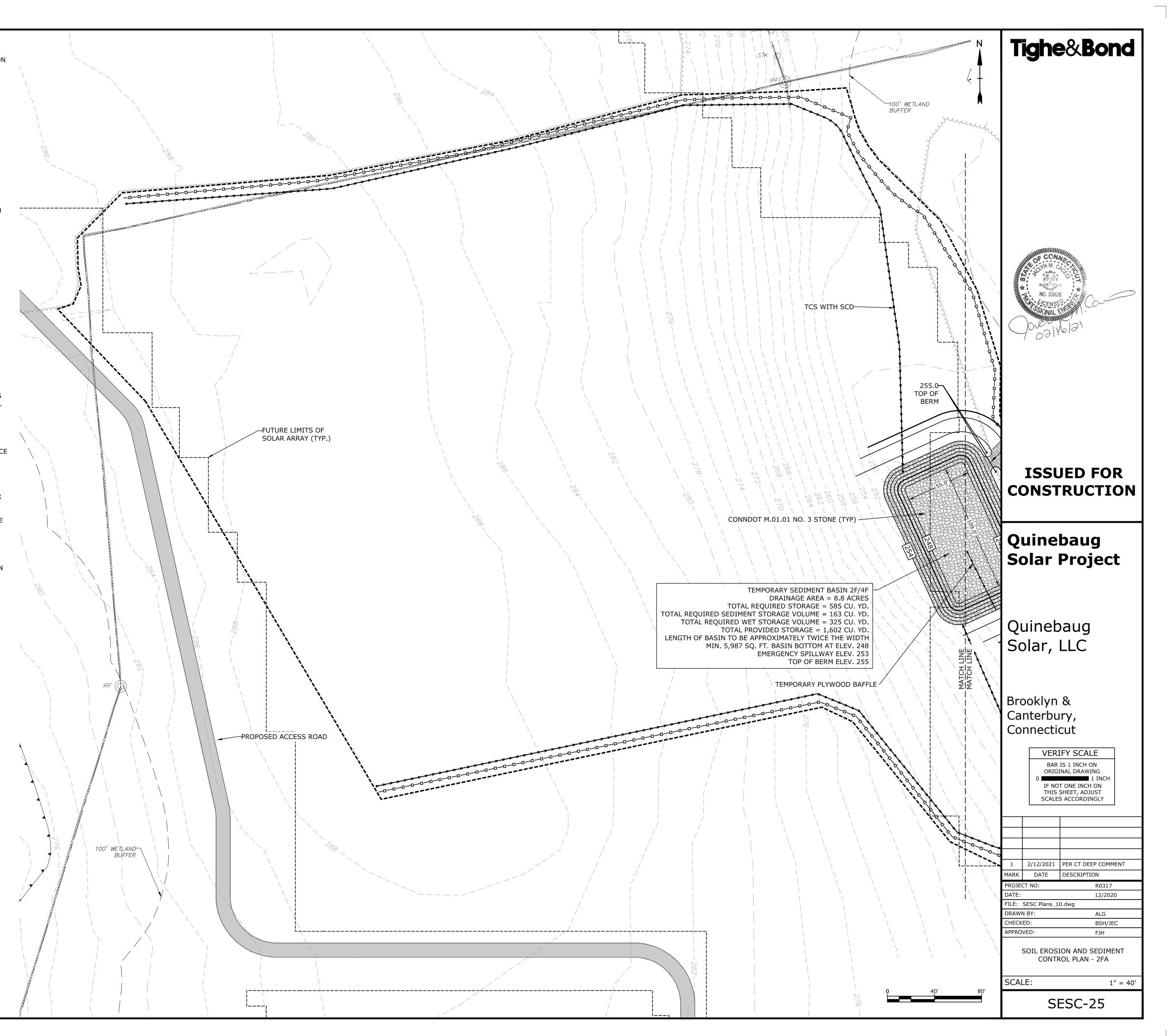
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| <u>LEGEND</u>                              |                                                         |
|--------------------------------------------|---------------------------------------------------------|
| PROPERTY LINE                              |                                                         |
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| EXISTING INDEX CONTOURS                    |                                                         |
| GRAVEL ROAD/DRIVEWAY<br>VERNAL POOL BUFFER |                                                         |
| STONE WALL                                 |                                                         |
| WETLAND BUFFER                             |                                                         |
| WATERCOURSE BUFFER                         |                                                         |
| DELINEATED WATERCOURSE                     |                                                         |
| VERNAL POOL                                |                                                         |
| DELINEATED WETLAND                         |                                                         |
| EXISTING LIMIT OF VEGETATION               |                                                         |
| PROPOSED LIMIT OF VEGETATION               | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~                  |
| PHASE LIMIT LINE                           |                                                         |
| FUTURE LIMIT OF SOLAR ARRAY                |                                                         |
| PERIMETER EROSION CONTROL                  | —                                                       |
| TEMP. CONVEYANCE SWALE WITH SCD            | <b>&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;</b> |
| TEMPORARY SOIL STOCKPILE                   |                                                         |
|                                            |                                                         |

SCD STONE CHECK DAM
TCS TEMP. CONVEYANCE SWALE



Last Saved: 2/12/2021 Plotted On: Feb 12, 2021-3:06pm By: JGenga

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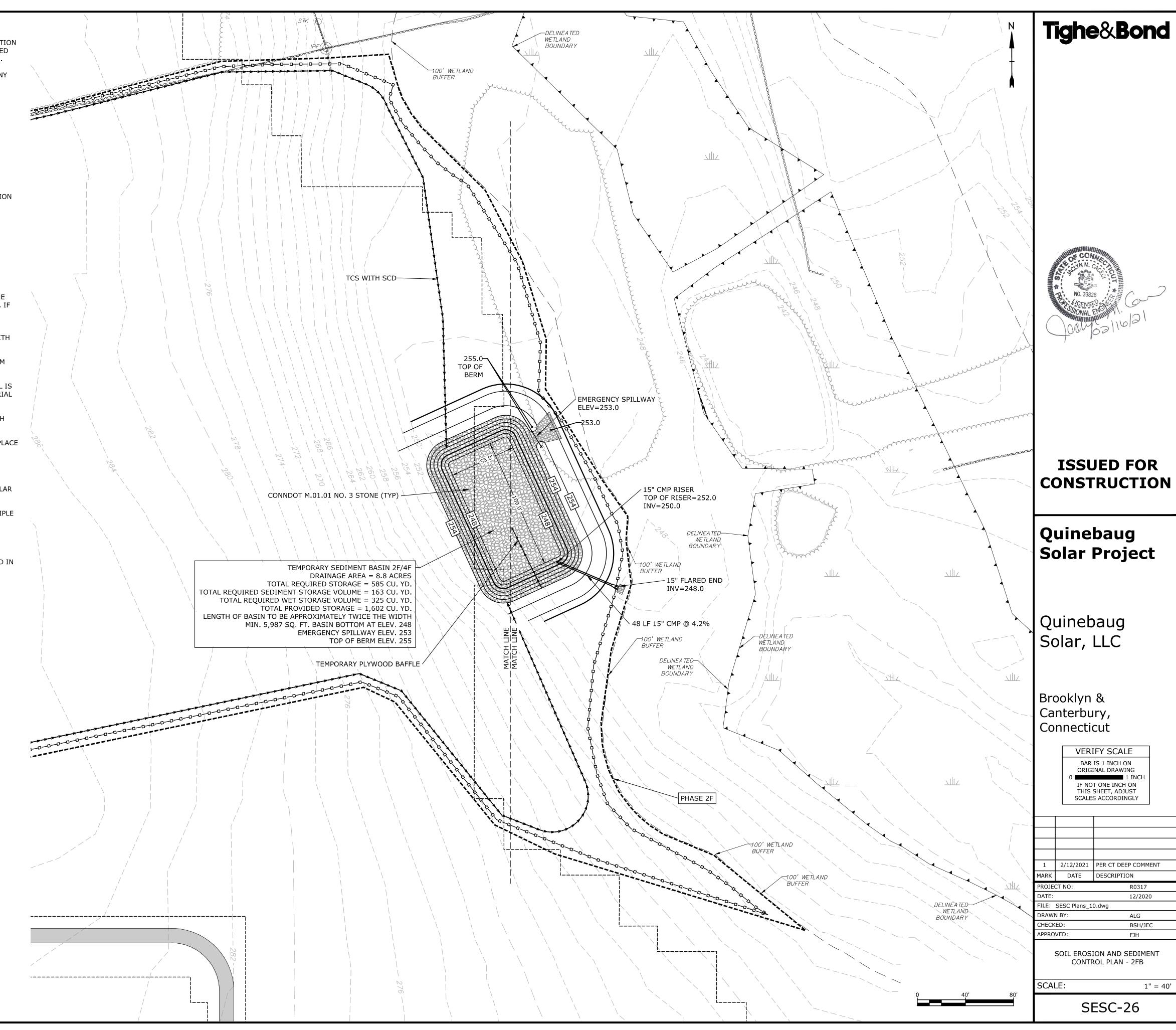
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| VERNAL POOL BUFFER                   |                                         |
| STONE WALL                           | .00000000000000000000000000000000000000 |
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| DELINEATED WATERCOURSE               |                                         |
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| PHASE LIMIT LINE                     |                                         |
| FUTURE LIMIT OF SOLAR ARRAY          |                                         |
|                                      |                                         |
| PERIMETER EROSION CONTROL            |                                         |
| TEMP. CONVEYANCE SWALE WITH SCD      | ppppppppppp                             |
| TEMPORARY SOIL STOCKPILE             |                                         |
|                                      |                                         |
|                                      |                                         |



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IF NOT STABLE, REVIEW DISCHARGE CONDITIONS WITH THE DESIGN ENGINEER AND IMPLEMENT ADDITIONAL STABILIZATION MEASURES PRIOR TO INSTALLING SURFACE WATER CONTROLS. 4. CONSTRUCT TEMPORARY SEDIMENT TRAPS AND/OR BASINS, DIVERSION SWALES AND BERMS WITH CHECK DAMS. 5. ONCE TEMPORARY STORMWATER CONTROLS ARE ESTABLISHED, REMOVE EXISTING STUMPS FROM PREVIOUSLY CLEARED TREES. 6. STABILIZE SITE WITH SEED AND MULCH IN ALL DISTURBED AREAS. IF A MINIMUM 4" OF TOPSOIL IS NOT PRESENT, AMEND WITH LOAM BORROW FOR A MINIMUM 4" OF VEGETATIVE SUPPORT MATERIAL TO PROMOTE GRASS GROWTH. STABILIZE AREAS WITH A SLOPE OF 7% OR STEEPER WITH HYDROSEED WITH BONDED FIBER MATRIX OR HYDROSEED AND INSTALL EROSION CONTROL BLANKETS. MONITOR DISTURBED AREAS WEEKLY OR FOLLOWING RAIN EVENTS AND AMEND WITH ADDITIONAL SEEDING AS NEEDED UNTIL STABILIZATION IS ACHIEVED. 7. CHECK AND REPAIR TEMPORARY CONTROLS AS NEEDED. TEMPORARY CONTROLS TO REMAIN IN PLACE 100' WETLAND THROUGH PHASE 4 CONSTRUCTION. **ISSUED FOR** SESC NARRATIVE CONSTRUCTION THE PROPOSED PROJECT INCLUDES CLEARING AND STUMP REMOVAL, THE CONSTRUCTION OF A SOLAR ARRAY, FENCES, ACCESS ROADS, AND SITE LANDSCAPING. THE PROJECT SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN MULTIPLE PHASES TOTALING APPROXIMATELY 220 ACRES OF DISTURBANCE. Quinebaug Solar Project TREE CLEARING IS ANTICIPATED TO OCCUR PRIOR TO SITE CONSTRUCTION, DURING WINTER TCS WITH SCD 2020/2021, PER NDDB RECOMMENDATIONS. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES CONFORM TO THE STANDARDS OUTLINED IN PHASE 2G/4G THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP), "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER POLLUTION CONTROL PLAN. TEMPORARY PLYWOOD BAFFLE Quinebaug Solar, LLC CONNDOT M.01.01 NO. 3 STONE (TYP) -DELINEATED <u>LEGEND</u> WETLAND! PROPERTY LINE BOUNDARY EXISTING INTERMEDIATE CONTOURS TEMPORARY SEDIMENT BASIN 2G/4G EXISTING INDEX CONTOURS DRAINAGE AREA = 10.0 ACRES GRAVEL ROAD/DRIVEWAY TOTAL REQUIRED STORAGE = 651 CU. YD. VERNAL POOL BUFFER TOTAL REQUIRED SEDIMENT STORAGE VOLUME = 185 CU. YD. STONE WALL 000000000000 TOTAL REQUIRED WET STORAGE VOLUME = 370 CU. YD. WETLAND BUFFER TOTAL PROVIDED STORAGE = 1,295 CU. YD. TOP OF WATERCOURSE BUFFER Brooklyn & RISER=267.5 LENGTH OF BASIN TO BE APPROXIMATELY TWICE THE WIDTH DELINEATED WATERCOURSE \_\_\_\_\_\_ MIN. 3,892 SQ. FT. BASIN BOTTOM AT ELEV. 264 INV=265.5 VERNAL POOL Canterbury, EMERGENCY SPILLWAY ELEV. 269 DELINEATED WETLAND \_\_\_\_\_ TOP OF BERM ELEV. 270.2 -DELINEATED EXISTING LIMIT OF VEGETATION Connecticut WETLAND PROPOSED LIMIT OF VEGETATION BOUNDARY PHASE LIMIT LINE VERIFY SCALE FUTURE LIMIT OF SOLAR ARRAY PERIMETER EROSION CONTROL BAR IS 1 INCH ON 269.0-ORIGINAL DRAWING TEMP. CONVEYANCE SWALE WITH SCD **>-->-->-->-->-->-->-->--**IF NOT ONE INCH ON 270.2 TOP OF BERM TEMPORARY SOIL STOCKPILE THIS SHEET, ADJUST SCALES ACCORDINGLY **EMERGENCY SPILLWAY** ELEV=268.0 100' WETLANE BUFFER SCD STONE CHECK DAM TCS TEMP. CONVEYANCE SWALE 334 LF 15" CMP @ 0.45% 1 2/12/2021 PER CT DEEP COMMENT PROPOSED ACCESS ROAD -100' WETLAND MARK DATE DESCRIPTION PROJECT NO: R0317 ------VFRNAI POOL DIRECTIONAL 12/2020 FILE: SESC Plans\_10.dwg DRAWN BY: AI G CHECKED: BSH/1FC 15" FLARED END -PPROVED: FJH INV=264.0 SOIL EROSION AND SEDIMENT CONTROL PLAN - 2GA SCALE: 1" = 40' SESC-27

- 1. EFFECTIVELY STABILIZE SOILS IN ONE PHASE 2 BEFORE COMMENCING GRADING AND CONSTRUCTION IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION.
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#### CONSTRUCTION PHASE 2

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#### **SESC NARRATIVE**

THE PROPOSED PROJECT INCLUDES CLEARING AND STUMP REMOVAL, THE CONSTRUCTION OF A SOLAR ARRAY, FENCES, ACCESS ROADS, AND SITE LANDSCAPING.

THE PROJECT SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN MULTIPLE PHASES TOTALING APPROXIMATELY 220 ACRES OF DISTURBANCE.

TREE CLEARING IS ANTICIPATED TO OCCUR PRIOR TO SITE CONSTRUCTION, DURING WINTER 2020/2021, PER NDDB RECOMMENDATIONS.

SOIL EROSION AND SEDIMENTATION CONTROL MEASURES CONFORM TO THE STANDARDS OUTLINED IN THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP), "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION.

SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER POLLUTION CONTROL PLAN.

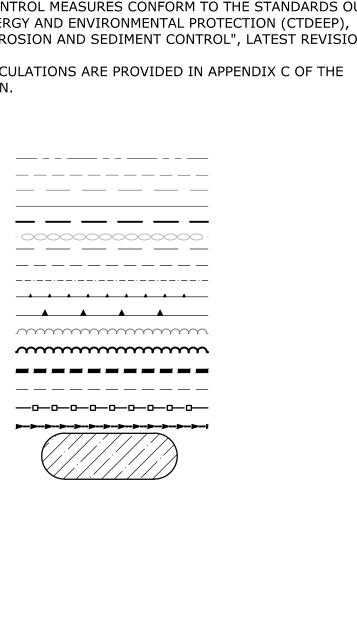
| <b>LEGEND</b> |  |
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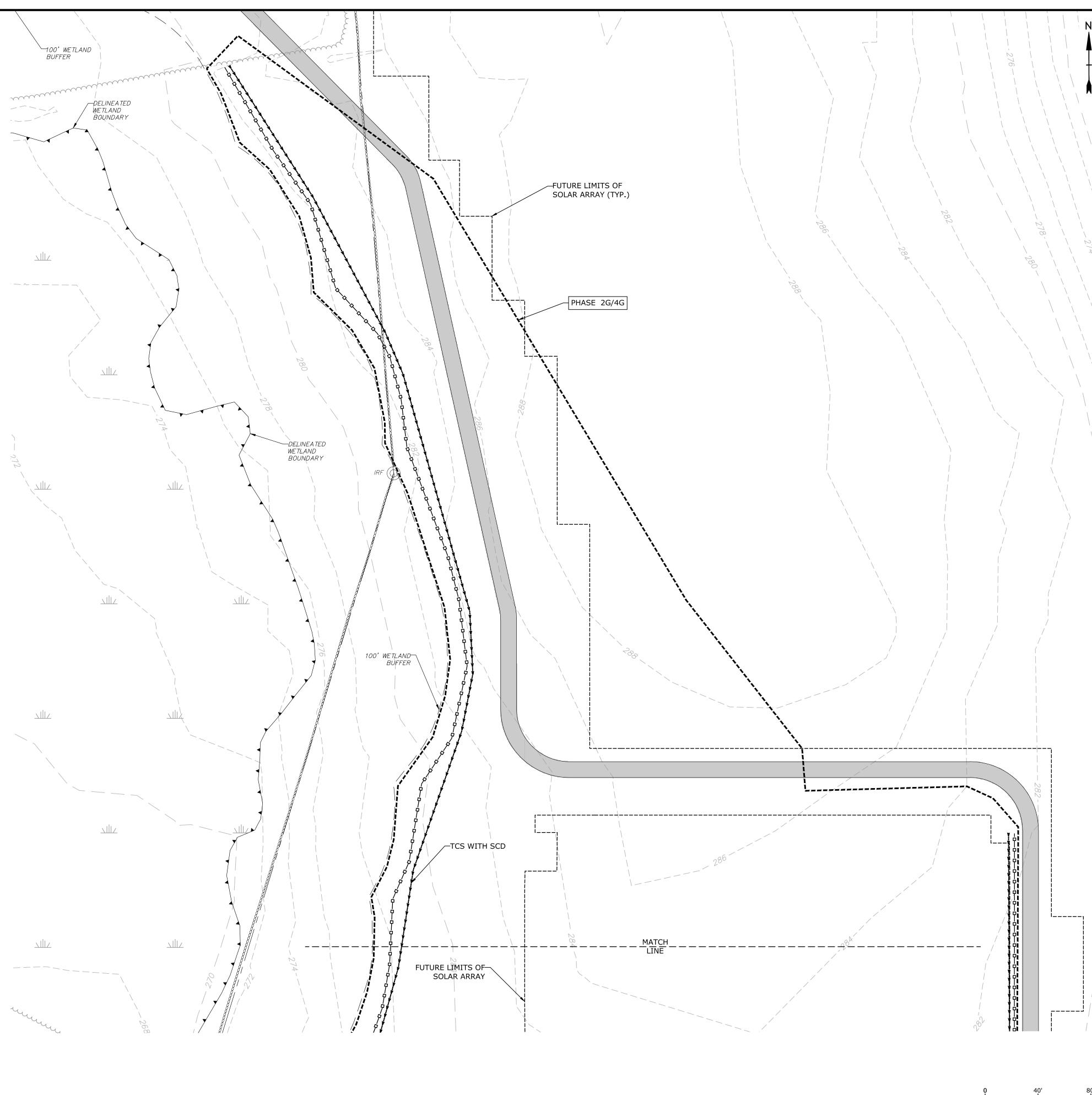
PROPERTY LINE EXISTING INTERMEDIATE CONTOURS EXISTING INDEX CONTOURS GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER STONE WALL WETLAND BUFFER WATERCOURSE BUFFER DELINEATED WATERCOURSE VERNAL POOL DELINEATED WETLAND EXISTING LIMIT OF VEGETATION

PROPOSED LIMIT OF VEGETATION PHASE LIMIT LINE FUTURE LIMIT OF SOLAR ARRAY PERIMETER EROSION CONTROL TEMP. CONVEYANCE SWALE WITH SCD

TEMPORARY SOIL STOCKPILE

SCD STONE CHECK DAM TCS TEMP. CONVEYANCE SWALE









## **ISSUED FOR** CONSTRUCTION

# Quinebaug Solar Project

Quinebaug Solar, LLC

Brooklyn & Canterbury, Connecticut

> VERIFY SCALE BAR IS 1 INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

| 1                       | 2/12/2021 | PER CT DEEP COMMENT |
|-------------------------|-----------|---------------------|
| MARK                    | DATE      | DESCRIPTION         |
| PROJECT NO:             |           | R0317               |
| DATE:                   |           | 12/2020             |
| FILE: SESC Plans_10.dwg |           |                     |
| DRAWN BY:               |           | ALG                 |
| CHECKED:                |           | BSH/JEC             |
| APPROVED:               |           | FJH                 |

SOIL EROSION AND SEDIMENT CONTROL PLAN - 2GB

1" = 40'

SCALE:

SESC-28

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#### **CONSTRUCTION PHASE 2**

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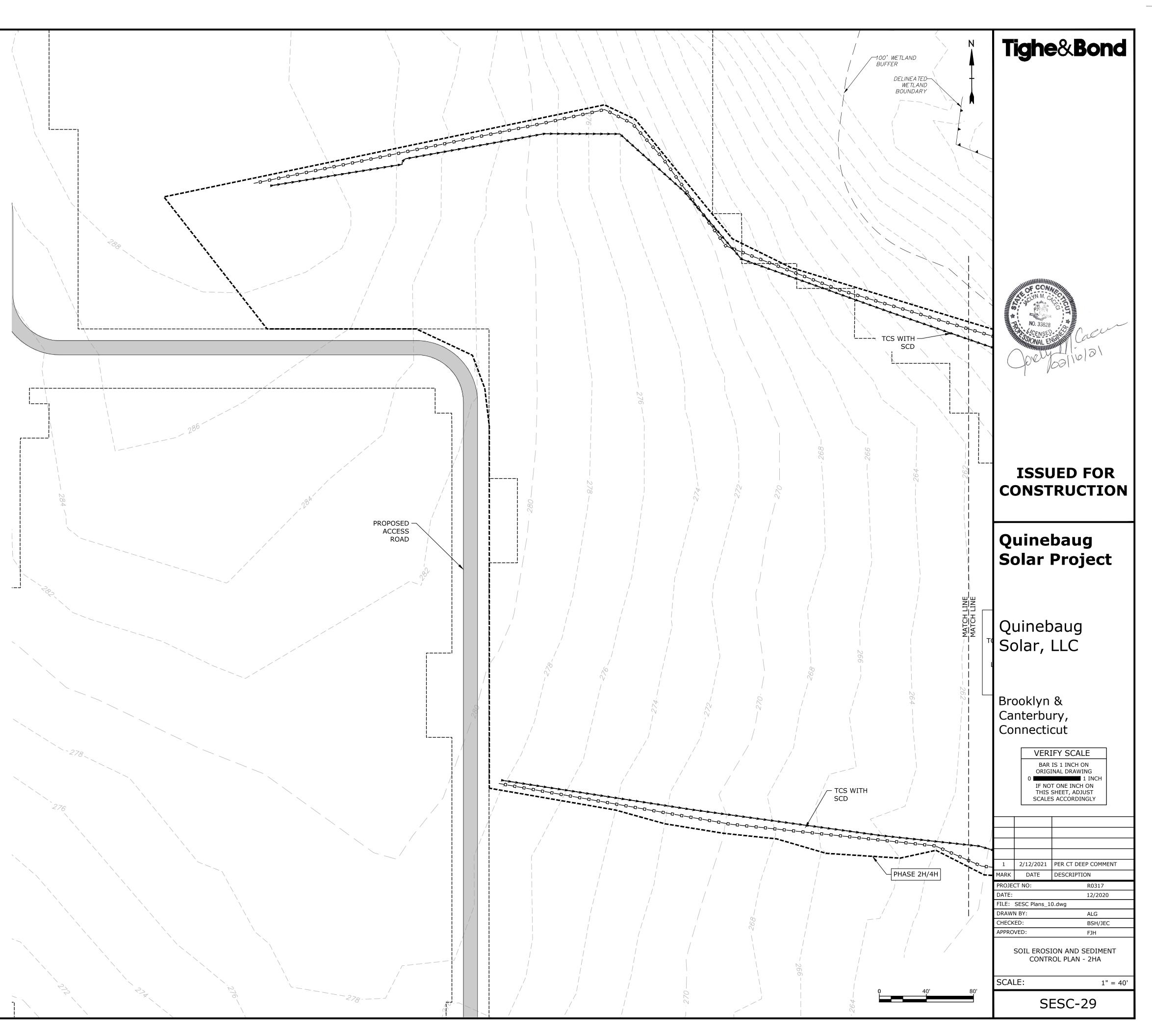
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PROPERTY LINE
EXISTING INTERMEDIATE CONTOURS
EXISTING INDEX CONTOURS
GRAVEL ROAD/DRIVEWAY
VERNAL POOL BUFFER
STONE WALL
WETLAND BUFFER
WATERCOURSE BUFFER
DELINEATED WATERCOURSE
VERNAL POOL
DELINEATED WETLAND
EXISTING LIMIT OF VEGETATION
PROPOSED LIMIT OF VEGETATION

DELINEATED WATERCOURSE
VERNAL POOL
DELINEATED WETLAND
EXISTING LIMIT OF VEGETATION
PROPOSED LIMIT OF VEGETATION
PHASE LIMIT LINE
FUTURE LIMIT OF SOLAR ARRAY
PERIMETER EROSION CONTROL
TEMP. CONVEYANCE SWALE WITH SCD

TEMPORARY SOIL STOCKPILE

<u>&E CODES</u>



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#### SESC NARRATIVE

THE PROPOSED PROJECT INCLUDES CLEARING AND STUMP REMOVAL, THE CONSTRUCTION OF A SOLAR ARRAY, FENCES, ACCESS ROADS, AND SITE LANDSCAPING.

THE PROJECT SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN MULTIPLE PHASES TOTALING APPROXIMATELY 220 ACRES OF DISTURBANCE.

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SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER POLLUTION CONTROL PLAN.

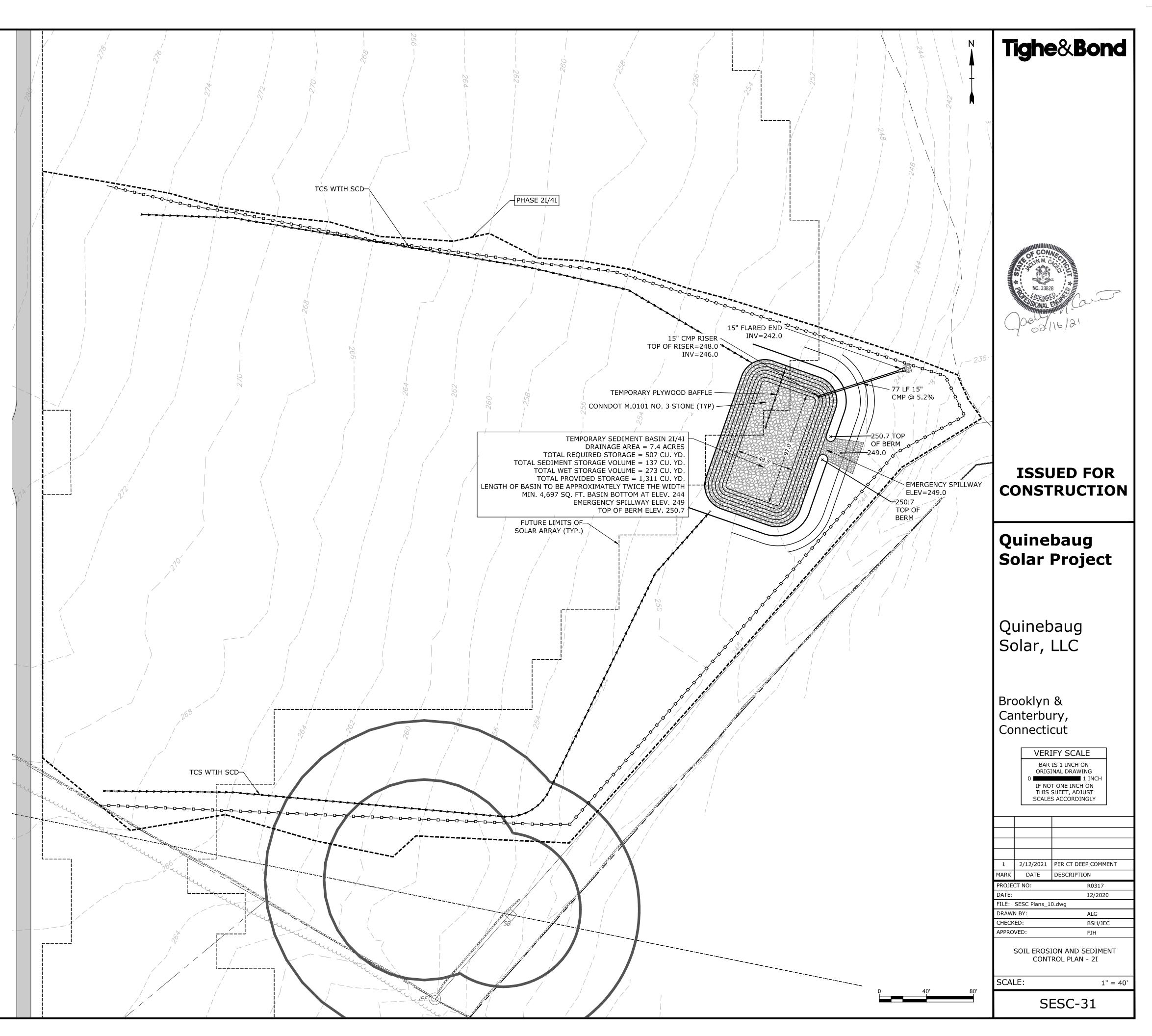
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PROPERTY LINE EXISTING INTERMEDIATE CONTOURS EXISTING INDEX CONTOURS GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER STONE WALL WETLAND BUFFER WATERCOURSE BUFFER DELINEATED WATERCOURSE VERNAL POOL DELINEATED WETLAND EXISTING LIMIT OF VEGETATION

PROPOSED LIMIT OF VEGETATION PHASE LIMIT LINE FUTURE LIMIT OF SOLAR ARRAY PERIMETER EROSION CONTROL

TEMPORARY SOIL STOCKPILE

TEMP. CONVEYANCE SWALE WITH SCD



- 1. EFFECTIVELY STABILIZE SOILS IN ONE PHASE 2 BEFORE COMMENCING GRADING AND CONSTRUCTION IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION.
- 2. CONFORM TO THE CURRENT CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL FOR ANY SOIL DISTURBANCE TO THE EXISTING AGRICULTURAL FIELDS.
- 3. REFER TO STORMWATER POLLUTION CONTROL PLAN FOR SEDIMENT TRAP/BASIN SIZING CALCULATIONS.
- 4. REFER TO CONSTRUCTION DRAWINGS FOR ALL DESIGN INFORMATION.
- 5. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY REQUIRE MODIFICATION BY THE STORMWATER PROFESSIONAL DEPENDING ON ACTUAL FIELD CONDITIONS THROUGHOUT CONSTRUCTION DURATION.
- 6. PERMANENT STORMWATER BASINS WHICH OVERLAP LOCATIONS OF TEMPORARY STORMWATER FEATURES USED DURING CONSTRUCTION TO MANAGE STORMWATER SHALL BE EXCAVATED TO A SUITABLE DEPTH TO REMOVE ACCUMULATED SEDIMENT AND RESTORE INFILTRATION CHARACTERISTICS OF THE NATIVE SOIL AT THE END OF CONSTRUCTION, ONCE SITE STABILIZATION HAS BEEN ACHIEVED. PERMANENT STORMWATER BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN RUNOFF AND SHALL NOT BE DISTURBED BY VEHICLE TRAFFIC OR OTHER CONSTRUCTION

#### CONSTRUCTION PHASE 2

- 1. FLAG THE LIMITS OF CONSTRUCTION.
- 2. INSTALL PERIMETER CONTROLS TO ESTABLISH PHASE WORK AREA IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND SOIL EROSION AND SEDIMENT CONTROL PLAN.
- 3. PRIOR TO INSTALLING SURFACE WATER CONTROLS, SUCH AS TEMPORARY DIVERSION AND STONE CHECK DAMS, INSPECT EXISTING CONDITIONS TO ENSURE DISCHARGE LOCATIONS ARE STABLE. IF NOT STABLE, REVIEW DISCHARGE CONDITIONS WITH THE DESIGN ENGINEER AND IMPLEMENT ADDITIONAL STABILIZATION MEASURES PRIOR TO INSTALLING SURFACE WATER CONTROLS.
- 4. CONSTRUCT TEMPORARY SEDIMENT TRAPS AND/OR BASINS, DIVERSION SWALES AND BERMS WITH CHECK DAMS.
- 5. ONCE TEMPORARY STORMWATER CONTROLS ARE ESTABLISHED, REMOVE EXISTING STUMPS FROM PREVIOUSLY CLEARED TREES.
- 6. STABILIZE SITE WITH SEED AND MULCH IN ALL DISTURBED AREAS. IF A MINIMUM 4" OF TOPSOIL IS NOT PRESENT, AMEND WITH LOAM BORROW FOR A MINIMUM 4" OF VEGETATIVE SUPPORT MATERIAL TO PROMOTE GRASS GROWTH. STABILIZE AREAS WITH A SLOPE OF 7% OR STEEPER WITH HYDROSEED WITH BONDED FIBER MATRIX OR HYDROSEED AND INSTALL EROSION CONTROL BLANKETS. MONITOR DISTURBED AREAS WEEKLY OR FOLLOWING RAIN EVENTS AND AMEND WITH ADDITIONAL SEEDING AS NEEDED UNTIL STABILIZATION IS ACHIEVED.
- CHECK AND REPAIR TEMPORARY CONTROLS AS NEEDED. TEMPORARY CONTROLS TO REMAIN IN PLACE THROUGH PHASE 4 CONSTRUCTION.

#### SESC NARRATIVE

THE PROPOSED PROJECT INCLUDES CLEARING AND STUMP REMOVAL, THE CONSTRUCTION OF A SOLAR ARRAY, FENCES, ACCESS ROADS, AND SITE LANDSCAPING.

THE PROJECT SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN MULTIPLE PHASES TOTALING APPROXIMATELY 220 ACRES OF DISTURBANCE.

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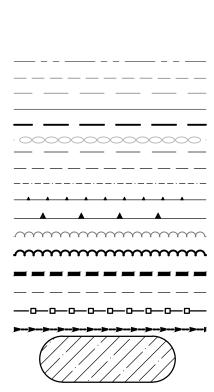
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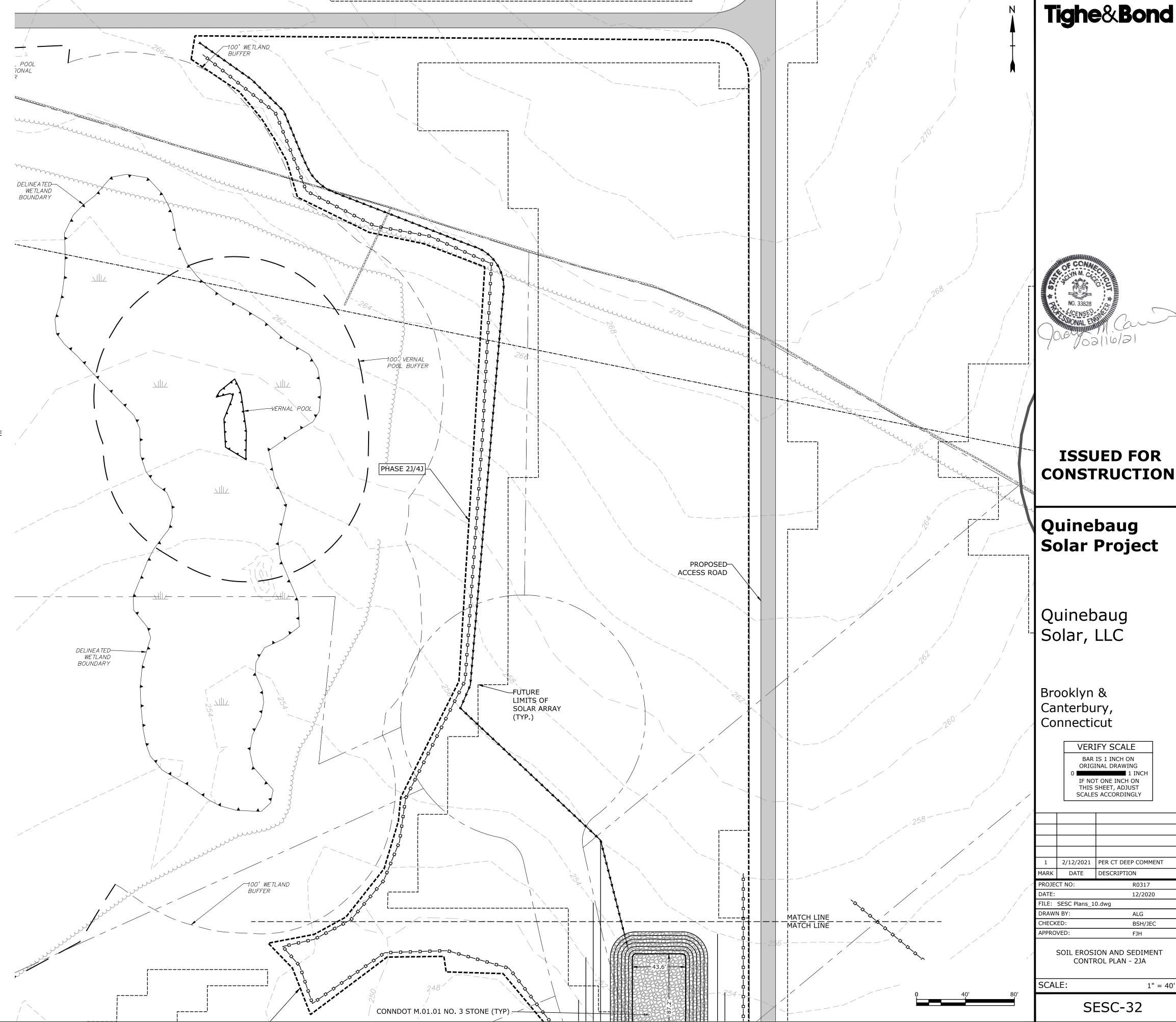
| <u>LEGEND</u>   |
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INTERMEDIATE CONTOURS **EXISTING INDEX CONTOURS** GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER STONE WALL WETLAND BUFFER WATERCOURSE BUFFER DELINEATED WATERCOURSE VERNAL POOL DELINEATED WETLAND EXISTING LIMIT OF VEGETATION

PROPOSED LIMIT OF VEGETATION PHASE LIMIT LINE FUTURE LIMIT OF SOLAR ARRAY PERIMETER EROSION CONTROL TEMP. CONVEYANCE SWALE WITH SCD

TEMPORARY SOIL STOCKPILE





#### Tighe&Bond **GENERAL NOTES** ACCESS ROAD 1. EFFECTIVELY STABILIZE SOILS IN ONE PHASE 2 BEFORE COMMENCING GRADING AND CONSTRUCTION IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION. 2. CONFORM TO THE CURRENT CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL FOR ANY SOIL DISTURBANCE TO THE EXISTING AGRICULTURAL FIELDS. 100' WETLAND \ 3. REFER TO STORMWATER POLLUTION CONTROL PLAN FOR SEDIMENT TRAP/BASIN SIZING DELINEATED-CALCULATIONS. WETLAND BOUNDARY 4. REFER TO CONSTRUCTION DRAWINGS FOR ALL DESIGN INFORMATION. 5. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY REQUIRE MODIFICATION BY THE STORMWATER PROFESSIONAL DEPENDING ON ACTUAL FIELD CONDITIONS THROUGHOUT LIMITS OF CONSTRUCTION DURATION. SOLAR ARRAY (TYP.) 6. PERMANENT STORMWATER BASINS WHICH OVERLAP LOCATIONS OF TEMPORARY STORMWATER FEATURES USED DURING CONSTRUCTION TO MANAGE STORMWATER SHALL BE EXCAVATED TO A SUITABLE DEPTH TO REMOVE ACCUMULATED SEDIMENT AND RESTORE INFILTRATION CHARACTERISTICS OF THE NATIVE SOIL AT THE END OF CONSTRUCTION, ONCE SITE STABILIZATION HAS BEEN ACHIEVED. PERMANENT STORMWATER BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN RUNOFF AND SHALL NOT BE DISTURBED BY VEHICLE TRAFFIC OR OTHER CONSTRUCTION CONSTRUCTION PHASE 2 1. FLAG THE LIMITS OF CONSTRUCTION. 2. INSTALL PERIMETER CONTROLS TO ESTABLISH PHASE WORK AREA IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND SOIL EROSION AND SEDIMENT CONTROL PLAN. 3. PRIOR TO INSTALLING SURFACE WATER CONTROLS, SUCH AS TEMPORARY DIVERSION AND STONE CHECK DAMS, INSPECT EXISTING CONDITIONS TO ENSURE DISCHARGE LOCATIONS ARE STABLE. 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CONNDOT M.01.01 NO. 3 STONE (TYP) **ISSUED FOR SESC NARRATIVE** 15" CMP RISER CONSTRUCTION TEMPORARY SEDIMENT BASIN 2J/4J TOP OF RISER=254.0 DRAINAGE AREA = 5.8 ACRES THE PROPOSED PROJECT INCLUDES CLEARING AND STUMP REMOVAL, THE CONSTRUCTION OF A SOLAR INV=252.0 TOTAL REQUIRED STORAGE = 418 CU. YD. ARRAY, FENCES, ACCESS ROADS, AND SITE LANDSCAPING. PHASE 2J TOTAL REQUIRED SEDIMENT STORAGE VOLUME = 107 CU. YD. TOTAL REQUIRED WET STORAGE VOLUME = 214 CU. YD. THE PROJECT SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN MULTIPLE TOTAL PROVIDED STORAGE = 1,103 CU. YD. PHASES TOTALING APPROXIMATELY 220 ACRES OF DISTURBANCE. LENGTH OF BASIN TO BE APPROXIMATELY TWICE THE WIDTH Quinebaug Solar Project MIN. 3,794 SQ. FT. BASIN BOTTOM AT ELEV. 250 TREE CLEARING IS ANTICIPATED TO OCCUR PRIOR TO SITE CONSTRUCTION, DURING WINTER 2020/2021, PER NDDB RECOMMENDATIONS. EMERGENCY SPILLWAY ELEV. 255 TOP OF BERM ELEV. 256.7 15" FLARED END SOIL EROSION AND SEDIMENTATION CONTROL MEASURES CONFORM TO THE STANDARDS OUTLINED IN INV=247.0 THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP), "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION 256.7 SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE TOP OF STORMWATER POLLUTION CONTROL PLAN. BERM Quinebaug Solar, LLC **EMERGENCY SPILLWAY** <u>LEGEND</u> ELEV=255.0 PROPERTY LINE EXISTING INTERMEDIATE CONTOURS EXISTING INDEX CONTOURS GRAVEL ROAD/DRIVEWAY ( 206 LF 15" CMP @ 2.43% — VERNAL POOL BUFFER STONE WALL 000000000000 WETLAND BUFFER WATERCOURSE BUFFER Brooklyn & \_\_\_\_\_\_\_\_ DELINEATED WATERCOURSE VERNAL POOL Canterbury, DELINEATED WETLAND \_\_\_\_\_ EXISTING LIMIT OF VEGETATION Connecticut ..... INV ELEV-PROPOSED LIMIT OF VEGETATION = 239.04 PHASE LIMIT LINE **VERIFY SCALE** FUTURE LIMIT OF SOLAR ARRAY PERIMETER EROSION CONTROL BAR IS 1 INCH ON —-----ORIGINAL DRAWING TEMP. CONVEYANCE SWALE WITH SCD P--P--P--P--P--P--P--P--P--P--P 100' WETLAND— BUFFER IF NOT ONE INCH ON TEMPORARY SOIL STOCKPILE THIS SHEET, ADJUST SCALES ACCORDINGLY —DELINEATED WETLAND BOUNDARY SCD STONE CHECK DAM TCS TEMP. CONVEYANCE SWALE 1 2/12/2021 PER CT DEEP COMMENT MARK DATE DESCRIPTION PROJECT NO: R0317 WETLAND ------12/2020 FILE: SESC Plans\_10.dwg DRAWN BY: ALG CHECKED: BSH/1FC PPROVED: FJH SOIL EROSION AND SEDIMENT CONTROL PLAN - 2JB SCALE: 1" = 40' .\_\_\_\_\_ SESC-33

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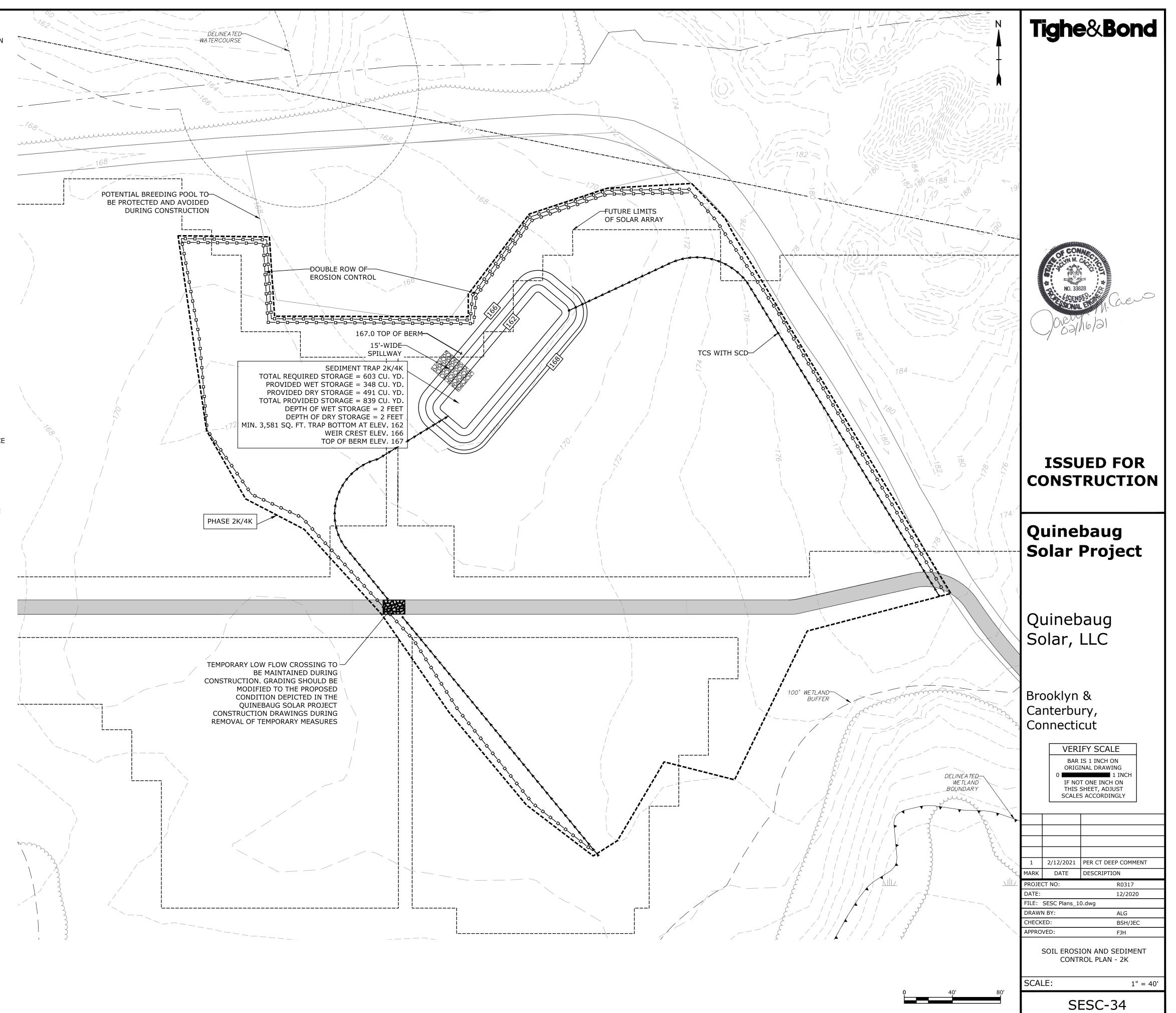
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PROPERTY LINE EXISTING INTERMEDIATE CONTOURS EXISTING INDEX CONTOURS GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER STONE WALL WETLAND BUFFER WATERCOURSE BUFFER DELINEATED WATERCOURSE VERNAL POOL DELINEATED WETLAND EXISTING LIMIT OF VEGETATION PROPOSED LIMIT OF VEGETATION

\_\_\_\_\_\_ mmmmmmm PHASE LIMIT LINE FUTURE LIMIT OF SOLAR ARRAY PERIMETER EROSION CONTROL ---------

TEMPORARY SOIL STOCKPILE

TEMP. CONVEYANCE SWALE WITH SCD



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NOTE: PHASE 2L MUST BE STABILIZED AT COMMENCEMENT OF

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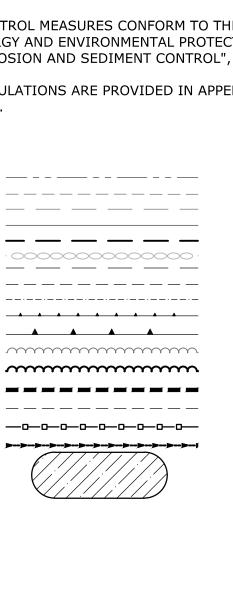
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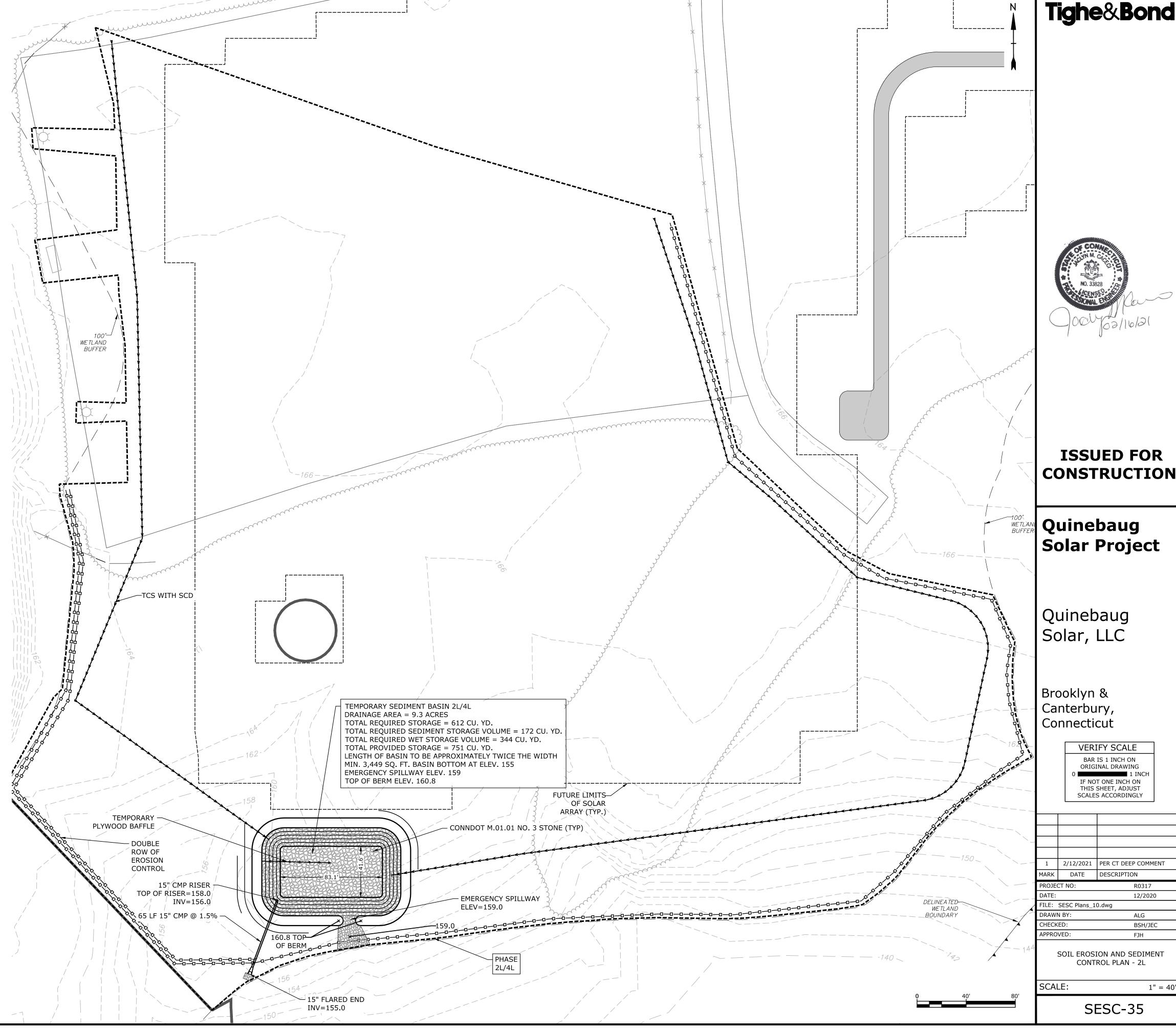
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TEMPORARY SOIL STOCKPILE

SCD STONE CHECK DAM TCS TEMP. CONVEYANCE SWALE

CONSTRUCTION OF PHASE 3L.





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## LEGEND

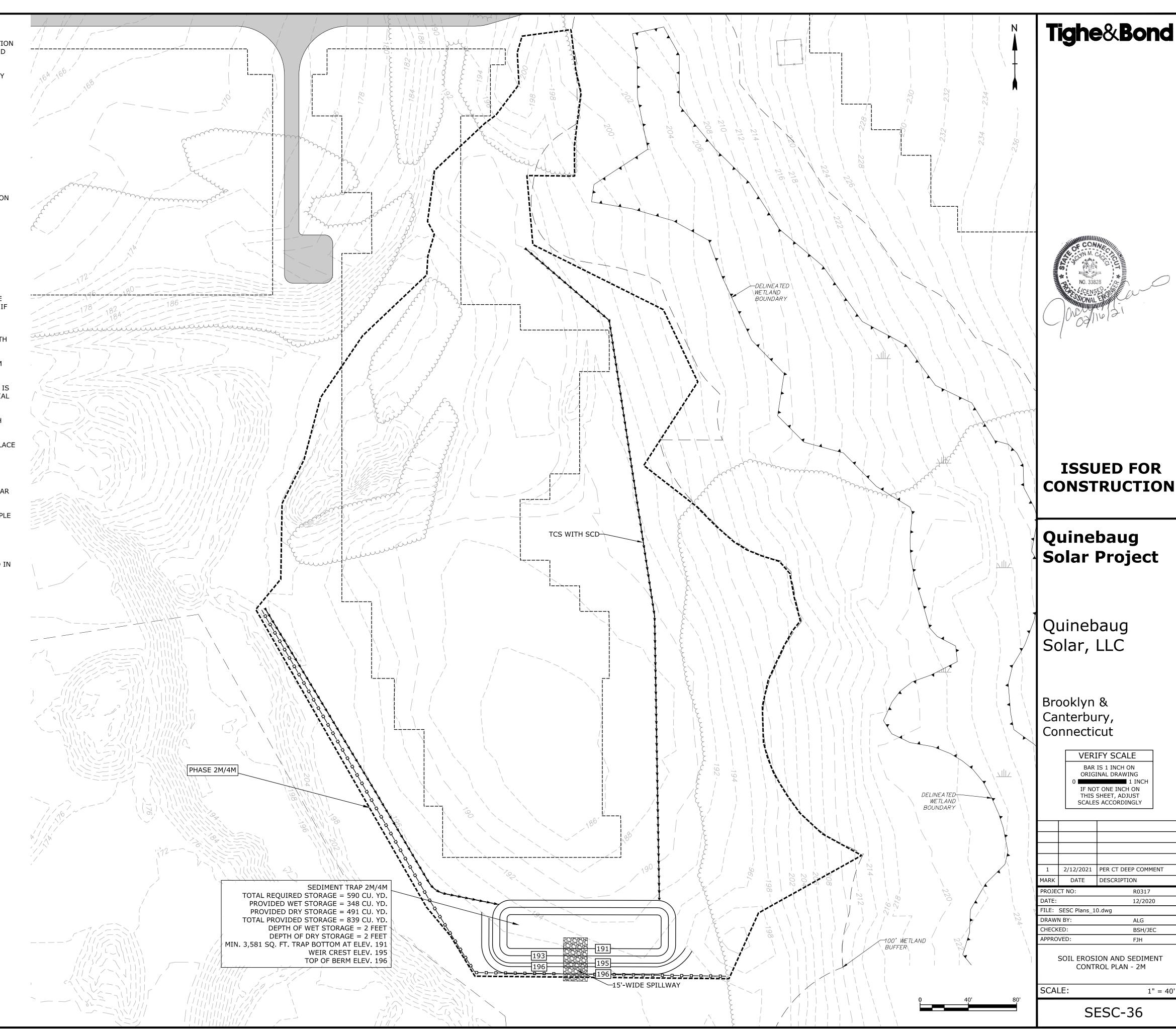
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PERIMETER EROSION CONTROL

TEMP. CONVEYANCE SWALE WITH SCD

S&E CODES
SCD STONE CHE





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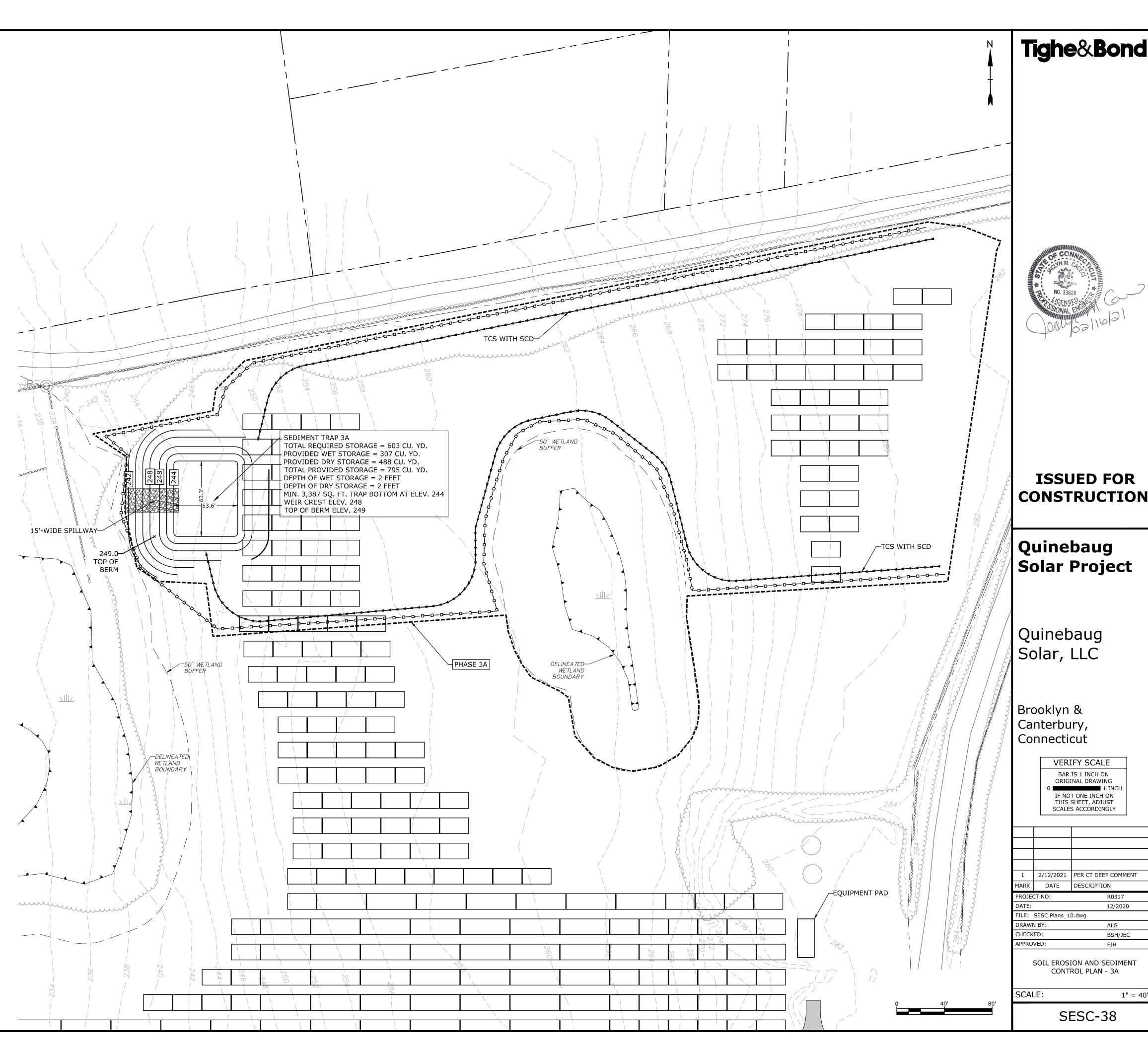
PROPERTY LINE EXISTING INTERMEDIATE CONTOURS EXISTING INDEX CONTOURS SUBSTATION AREA CONTOURS GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER STONE WALL WETLAND BUFFER WATERCOURSE BUFFER DELINEATED WATERCOURSE VERNAL POOL DELINEATED WETLAND EXISTING LIMIT OF VEGETATION PROPOSED LIMIT OF VEGETATION PHASE LIMIT LINE FUTURE LIMIT OF SOLAR ARRAY PERIMETER EROSION CONTROL TEMP. CONVEYANCE SWALE WITH SCD

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TEMPORARY SOIL STOCKPILE

S&E CODES

SCD STONE CHECK DAM TCS TEMP. CONVEYANCE SWALE



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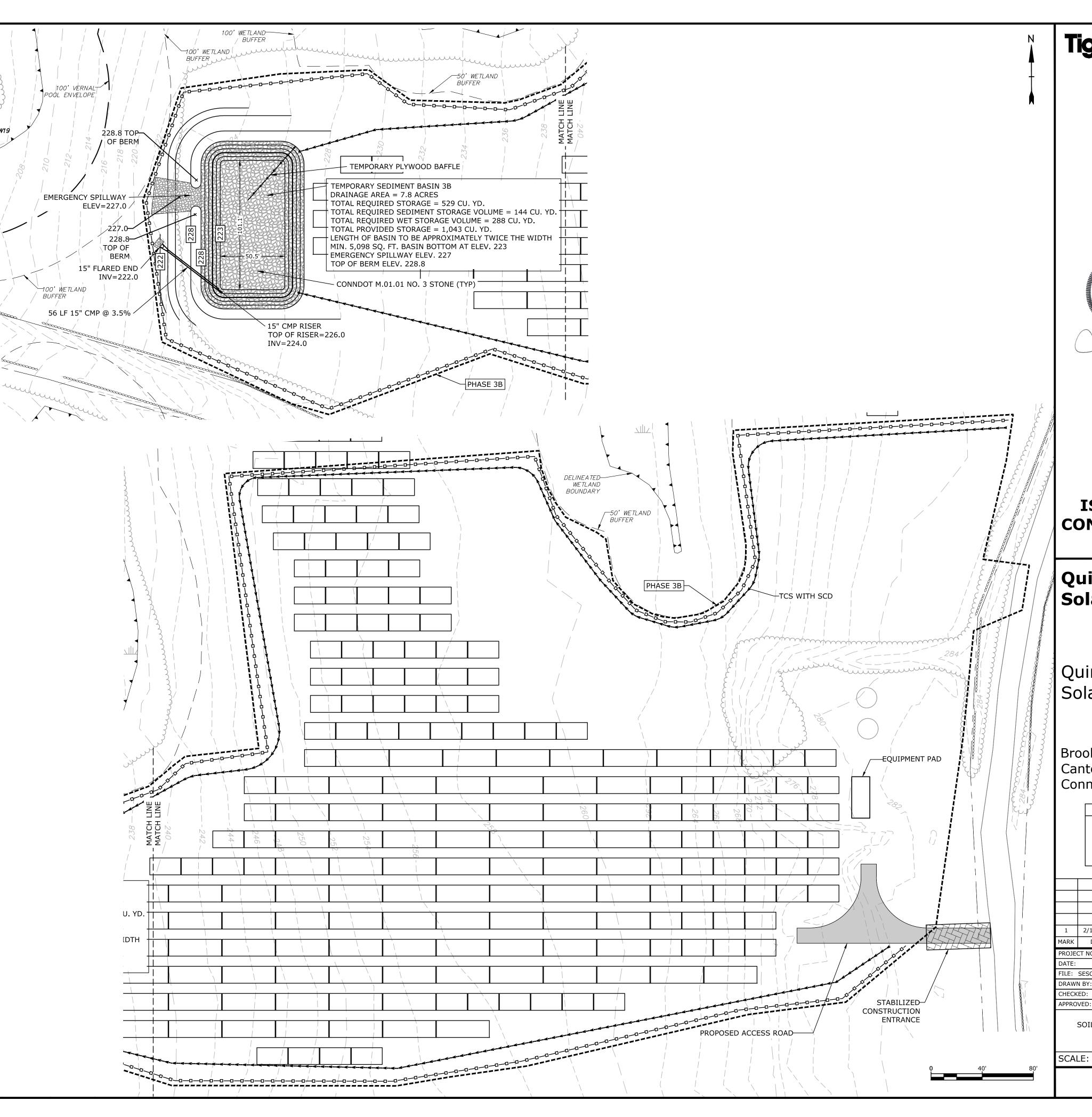
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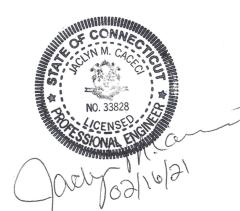
TEMPORARY SOIL STOCKPILE

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SCD STONE CHECK DAM TCS TEMP. CONVEYANCE SWALE



## Tighe&Bond



## **ISSUED FOR** CONSTRUCTION

# Quinebaug Solar Project

Quinebaug Solar, LLC

Brooklyn & Canterbury, Connecticut

> VERIFY SCALE BAR IS 1 INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

| 1                       | 2/12/2021 | PER CT DEEP COMMENT |  |
|-------------------------|-----------|---------------------|--|
| MARK                    | DATE      | DESCRIPTION         |  |
| PROJECT NO:             |           | R0317               |  |
| DATE:                   |           | 12/2020             |  |
| FILE: SESC Plans_10.dwg |           |                     |  |
| DRAWN BY:               |           | ALG                 |  |
| CHECKED:                |           | BSH/JEC             |  |
| APPROVED:               |           | FJH                 |  |

SOIL EROSION AND SEDIMENT CONTROL PLAN - 3B

1" = 40'

SESC-39

#### **GENERAL NOTES** Tighe&Bond EFFECTIVELY STABILIZE SOILS IN ONE PHASE 3 BEFORE COMMENCING GRADING AND CONSTRUCTION IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION. 50' WETLAND WETLAND CONFORM TO THE CURRENT CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL FOR ANY BOUNDARY SOIL DISTURBANCE TO THE EXISTING AGRICULTURAL FIELDS. REFER TO STORMWATER POLLUTION CONTROL PLAN FOR SEDIMENT TRAP/BASIN SIZING CALCULATIONS. . REFER TO CONSTRUCTION DRAWINGS FOR ALL DESIGN INFORMATION. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY REQUIRE MODIFICATION BY THE STORMWATER PROFESSIONAL DEPENDING ON ACTUAL FIELD CONDITIONS THROUGHOUT CONSTRUCTION DURATION. 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STABILIZE AREAS WITH A SLOPE OF 7% OR STEEPER WITH HYDROSEED WITH BONDED FIBER MATRIX OR HYDROSEED AND INSTALL EROSION CONTROL 15" CMP RISER **~**266.8 \$TOP OF BERM BLANKETS. MONITOR DISTURBED AREAS WEEKLY OR FOLLOWING RAIN EVENTS AND AMEND WITH TOP OF RISER=264.0 ADDITIONAL SEEDING AS NEEDED UNTIL STABILIZATION IS ACHIEVED. INV=262.0 **ISSUED FOR** EMERGENCY SPILLWAY -**EQUIPMENT PAD —** 8. AFTER PHASE IS FULLY STABILIZED, REMOVE TEMPORARY STORMWATER CONTROLS. ELEV=265.0. **CONSTRUCTION** 9. ONCE TEMPORARY MEASURES ARE REMOVED, INSTALL THE REMAINING RACKING AND COMPONENTS THAT ARE LOCATED WHERE THE TEMPORARY MEASURES WERE REMOVED. PHASE 3C TOP OF **\**BERM TEMPORARY SEDIMENT BASIN 3C SESC NARRATIVE DRAINAGE AREA = 8.9 ACRES Quinebaug Solar Project TOTAL REQUIRED STORAGE = 590 CU. YD. TOTAL REQUIRED SEDIMENT STORAGE VOLUME = 164 CU. YD. THE PROPOSED PROJECT INCLUDES CLEARING AND STUMP REMOVAL, THE CONSTRUCTION OF A SOLAR TOTAL REQUIRED WET STORAGE VOLUME = 329 CU. YD. ARRAY, FENCES, ACCESS ROADS, AND SITE LANDSCAPING. TOTAL PROVIDED STORAGE = 1,207 CU. YD. LENGTH OF BASIN TO BE APPROXIMATELY TWICE THE WIDTH THE PROJECT SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN MULTIPLE MIN. 6,042 SQ. FT. BASIN BOTTOM AT ELEV. 261 PHASES TOTALING APPROXIMATELY 220ACRES OF DISTURBANCE. EMERGENCY SPILLWAY ELEV. 265 TOP OF BERM ELEV. 266.8 TREE CLEARING IS ANTICIPATED TO OCCUR PRIOR TO SITE CONSTRUCTION, DURING WINTER 2020/2021, PER NDDB RECOMMENDATIONS. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES CONFORM TO THE STANDARDS OUTLINED IN TEMPORARY PLYWOOD BAFFLE $-\!\!\!\!\!-$ Quinebaug Solar, LLC THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP), "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION. SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER POLLUTION CONTROL PLAN. CONNDOT M.01.01 NO. 3 STONE (TYP) <u>LEGEND</u> PROPERTY LINE \_\_\_\_\_\_\_ EXISTING INTERMEDIATE CONTOURS Brooklyn & EXISTING INDEX CONTOURS \_ \_ \_ \_ \_ \_ \_ \_ SUBSTATION AREA CONTOURS Canterbury, GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER Connecticut STONE WALL .000000000000 WETLAND BUFFER WATERCOURSE BUFFER **VERIFY SCALE** DELINEATED WATERCOURSE VERNAL POOL BAR IS 1 INCH ON DELINEATED WETLAND ORIGINAL DRAWING \_\_\_\_\_ EXISTING LIMIT OF VEGETATION $\dots$ IF NOT ONE INCH ON PROPOSED LIMIT OF VEGETATION THIS SHEET, ADJUST PHASE LIMIT LINE SCALES ACCORDINGLY \_\_\_\_\_\_\_ FUTURE LIMIT OF SOLAR ARRAY \_\_\_\_\_ PERIMETER EROSION CONTROL -----TEMP. CONVEYANCE SWALE WITH SCD **>-->-->-->-->-->-->-->-->-->--**TEMPORARY SOIL STOCKPILE PHASE 3C EQUIPMENT PAD — 1 2/12/2021 PER CT DEEP COMMENT MARK DATE DESCRIPTION S&E CODES SCD STONE CHECK DAM PROJECT NO: R0317 TCS TEMP. CONVEYANCE SWALE 12/2020 FILE: SESC Plans\_10.dwg DRAWN BY: ALG HECKED: BSH/1FC PPROVED: FJH SOIL EROSION AND SEDIMENT CONTROL PLAN - 3CA SCALE: 1" = 40' SESC-40

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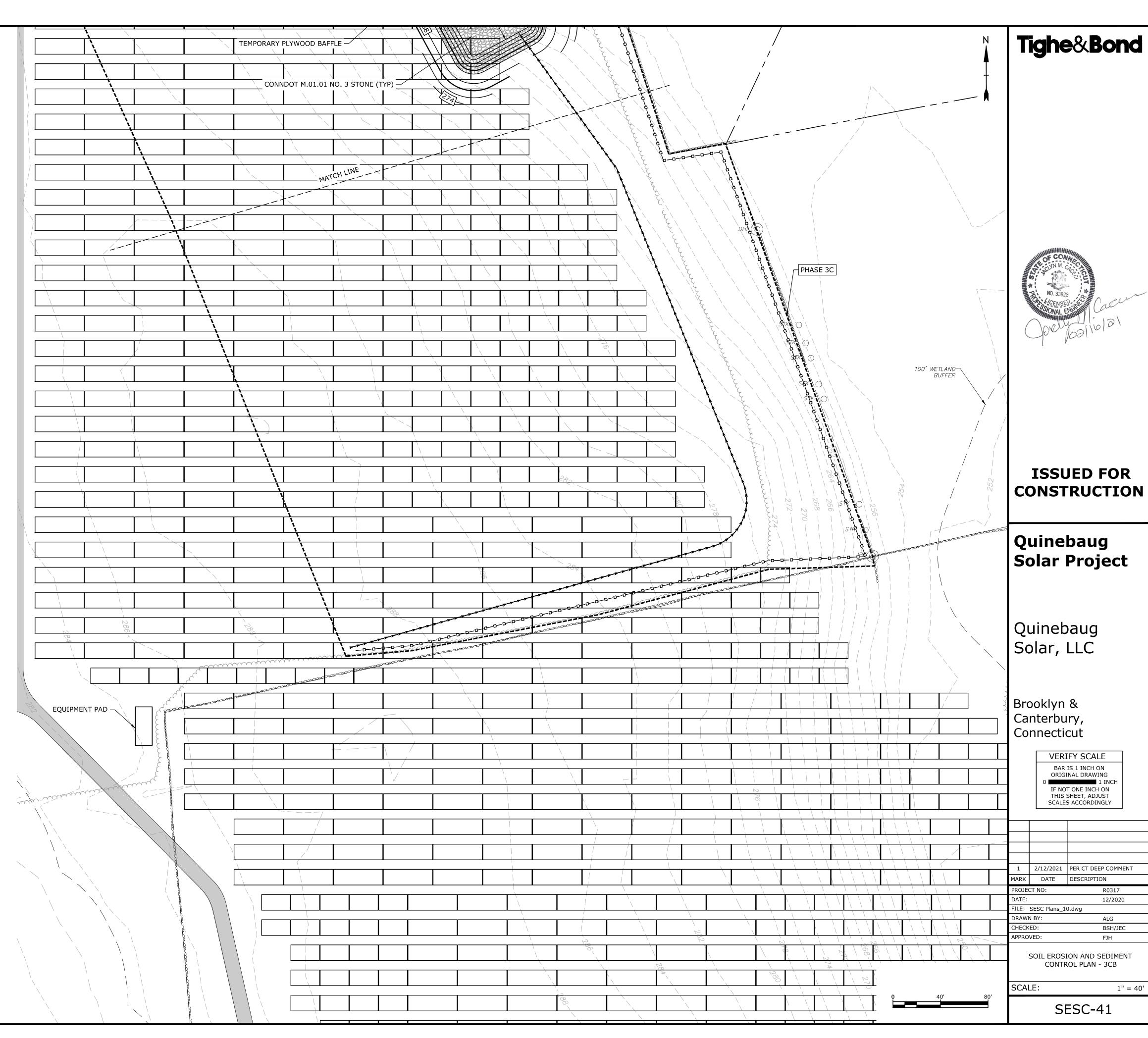
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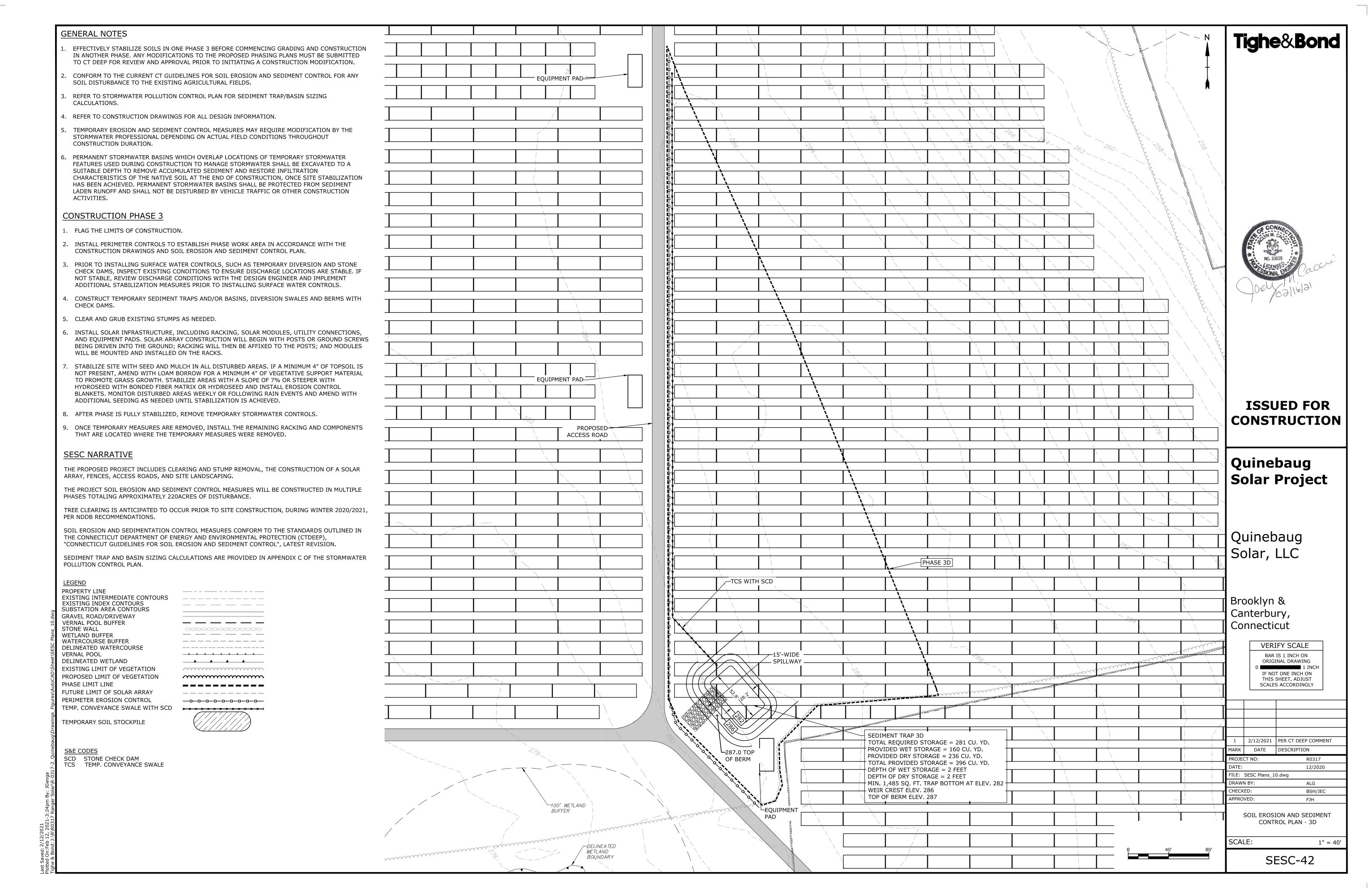
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TREE CLEARING IS ANTICIPATED TO OCCUR PRIOR TO SITE CONSTRUCTION, DURING WINTER 2020/2021, PER NDDB RECOMMENDATIONS.

SOIL EROSION AND SEDIMENTATION CONTROL MEASURES CONFORM TO THE STANDARDS OUTLINED IN THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP), "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION.

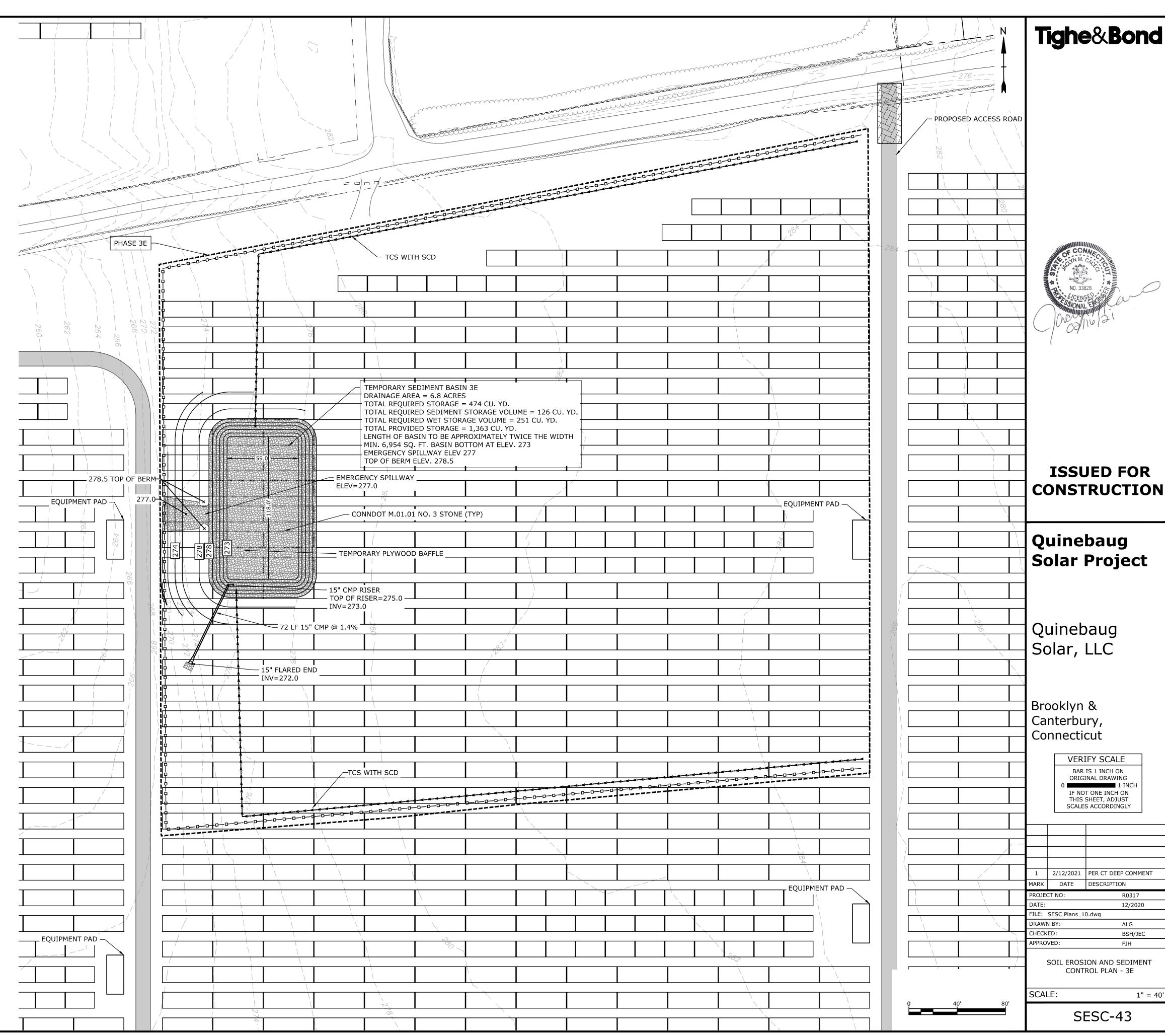
SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER POLLUTION CONTROL PLAN.

#### <u>LEGEND</u> PROPERTY LINE EXISTING INTERMEDIATE CONTOURS EXISTING INDEX CONTOURS SUBSTATION AREA CONTOURS GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER STONE WALL WETLAND BUFFER WATERCOURSE BUFFER DELINEATED WATERCOURSE VERNAL POOL

DELINEATED WETLAND EXISTING LIMIT OF VEGETATION PROPOSED LIMIT OF VEGETATION PHASE LIMIT LINE FUTURE LIMIT OF SOLAR ARRAY PERIMETER EROSION CONTROL TEMP. CONVEYANCE SWALE WITH SCD

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TEMPORARY SOIL STOCKPILE



#### **GENERAL NOTES** Tighe&Bond EFFECTIVELY STABILIZE SOILS IN ONE PHASE 3 BEFORE COMMENCING GRADING AND CONSTRUCTION IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION. CONFORM TO THE CURRENT CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL FOR ANY SOIL DISTURBANCE TO THE EXISTING AGRICULTURAL FIELDS. REFER TO STORMWATER POLLUTION CONTROL PLAN FOR SEDIMENT TRAP/BASIN SIZING CALCULATIONS. . REFER TO CONSTRUCTION DRAWINGS FOR ALL DESIGN INFORMATION. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY REQUIRE MODIFICATION BY THE STORMWATER PROFESSIONAL DEPENDING ON ACTUAL FIELD CONDITIONS THROUGHOUT CONSTRUCTION DURATION. PERMANENT STORMWATER BASINS WHICH OVERLAP LOCATIONS OF TEMPORARY STORMWATER FEATURES USED DURING CONSTRUCTION TO MANAGE STORMWATER SHALL BE EXCAVATED TO A SUITABLE DEPTH TO REMOVE ACCUMULATED SEDIMENT AND RESTORE INFILTRATION CHARACTERISTICS OF THE NATIVE SOIL AT THE END OF CONSTRUCTION, ONCE SITE STABILIZATION PHASE 3F HAS BEEN ACHIEVED. PERMANENT STORMWATER BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN RUNOFF AND SHALL NOT BE DISTURBED BY VEHICLE TRAFFIC OR OTHER CONSTRUCTION ACTIVITIES. CONSTRUCTION PHASE 3 1. FLAG THE LIMITS OF CONSTRUCTION. 15" FLARED END 2. INSTALL PERIMETER CONTROLS TO ESTABLISH PHASE WORK AREA IN ACCORDANCE WITH THE INV=270.0 CONSTRUCTION DRAWINGS AND SOIL EROSION AND SEDIMENT CONTROL PLAN. - 37 LF 15" NO. 33828 3. PRIOR TO INSTALLING SURFACE WATER CONTROLS, SUCH AS TEMPORARY DIVERSION AND STONE CMP @ 2.7% **EQUIPMENT PAD** -CHECK DAMS, INSPECT EXISTING CONDITIONS TO ENSURE DISCHARGE LOCATIONS ARE STABLE. IF NOT STABLE, REVIEW DISCHARGE CONDITIONS WITH THE DESIGN ENGINEER AND IMPLEMENT TOP OF RISER=273.0 ADDITIONAL STABILIZATION MEASURES PRIOR TO INSTALLING SURFACE WATER CONTROLS. INV=271.0 4. CONSTRUCT TEMPORARY SEDIMENT TRAPS AND/OR BASINS, DIVERSION SWALES AND BERMS WITH TEMPORARY PLYWOOD BAFFLE CHECK DAMS. EQUIPMENT PAD TEMPORARY SEDIMENT BASIN 3F 5. CLEAR AND GRUB EXISTING STUMPS AS NEEDED. DRAINAGE AREA = 5.7 ACRES TOTAL REQUIRED STORAGE = 413 CU. YD. INSTALL SOLAR INFRASTRUCTURE, INCLUDING RACKING, SOLAR MODULES, UTILITY CONNECTIONS, TOTAL REQUIRED SEDIMENT STORAGE VOLUME = 105 CU. YD. AND EQUIPMENT PADS. SOLAR ARRAY CONSTRUCTION WILL BEGIN WITH POSTS OR GROUND SCREWS TOTAL REQUIRED WET STORAGE VOLUME = 211 CU. YD. BEING DRIVEN INTO THE GROUND; RACKING WILL THEN BE AFFIXED TO THE POSTS; AND MODULES TOTAL PROVIDED STORAGE = 794 CU. YD. WILL BE MOUNTED AND INSTALLED ON THE RACKS. 276.6 LENGTH OF BASIN TO BE APPROXIMATELY TWICE THE WIDTH TOP MIN. 6,954 SQ. FT. BASIN BOTTOM AT ELEV. 271 STABILIZE SITE WITH SEED AND MULCH IN ALL DISTURBED AREAS. IF A MINIMUM 4" OF TOPSOIL IS OF - EMERGENCY SPILLWAY ELEV 275 NOT PRESENT, AMEND WITH LOAM BORROW FOR A MINIMUM 4" OF VEGETATIVE SUPPORT MATERIAL **BERM** TOP OF BERM ELEV. 276.6 TO PROMOTE GRASS GROWTH. STABILIZE AREAS WITH A SLOPE OF 7% OR STEEPER WITH HYDROSEED WITH BONDED FIBER MATRIX OR HYDROSEED AND INSTALL EROSION CONTROL BLANKETS. MONITOR DISTURBED AREAS WEEKLY OR FOLLOWING RAIN EVENTS AND AMEND WITH ADDITIONAL SEEDING AS NEEDED UNTIL STABILIZATION IS ACHIEVED. CONNDOT M.01.01 NO. 3 STONE (TYP) **ISSUED FOR** 8. AFTER PHASE IS FULLY STABILIZED, REMOVE TEMPORARY STORMWATER CONTROLS. EMERGENCY SPILLWAY **CONSTRUCTION** ELEV=275.0 9. ONCE TEMPORARY MEASURES ARE REMOVED, INSTALL THE REMAINING RACKING AND COMPONENTS THAT ARE LOCATED WHERE THE TEMPORARY MEASURES WERE REMOVED. SESC NARRATIVE Quinebaug Solar Project THE PROPOSED PROJECT INCLUDES CLEARING AND STUMP REMOVAL, THE CONSTRUCTION OF A SOLAR ARRAY, FENCES, ACCESS ROADS, AND SITE LANDSCAPING. THE PROJECT SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN MULTIPLE PHASES TOTALING APPROXIMATELY 220ACRES OF DISTURBANCE. TREE CLEARING IS ANTICIPATED TO OCCUR PRIOR TO SITE CONSTRUCTION, DURING WINTER 2020/2021, PER NDDB RECOMMENDATIONS. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES CONFORM TO THE STANDARDS OUTLINED IN Quinebaug THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP), "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION. Solar, LLC SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER POLLUTION CONTROL PLAN. <u>LEGEND</u> PROPERTY LINE \_\_\_\_\_\_\_ EXISTING INTERMEDIATE CONTOURS Brooklyn & EXISTING INDEX CONTOURS SUBSTATION AREA CONTOURS Canterbury, GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER Connecticut STONE WALL .0000000000000 \_\_ EQUIPMENT PAD -WETLAND BUFFER WATERCOURSE BUFFER EQUIPMENT PAD > **VERIFY SCALE** DELINEATED WATERCOURSE VERNAL POOL BAR IS 1 INCH ON DELINEATED WETLAND ORIGINAL DRAWING \_\_\_\_\_ EXISTING LIMIT OF VEGETATION $\dots$ IF NOT ONE INCH ON PROPOSED LIMIT OF VEGETATION THIS SHEET, ADJUST PHASE LIMIT LINE SCALES ACCORDINGLY \_\_\_\_\_\_\_ FUTURE LIMIT OF SOLAR ARRAY \_\_\_\_\_ PERIMETER EROSION CONTROL —-----TEMP. CONVEYANCE SWALE WITH SCD **>-->-->-->-->-->-->-->-->-->--**-100' WETLAND BUFFER TEMPORARY SOIL STOCKPILE 1 2/12/2021 PER CT DEEP COMMENT MARK DATE DESCRIPTION S&E CODES SCD STONE CHECK DAM PROJECT NO: R0317 WETLAND TCS TEMP. CONVEYANCE SWALE BOUNDARY 12/2020 FILE: SESC Plans\_10.dwg DRAWN BY: ALG CHECKED: BSH/1FC PPROVED: FJH SOIL EROSION AND SEDIMENT CONTROL PLAN - 3F SCALE: 1" = 40' SESC-44

- EFFECTIVELY STABILIZE SOILS IN ONE PHASE 3 BEFORE COMMENCING GRADING AND CONSTRUCTION IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION.
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#### **CONSTRUCTION PHASE 3**

- 1. FLAG THE LIMITS OF CONSTRUCTION.
- 2. INSTALL PERIMETER CONTROLS TO ESTABLISH PHASE WORK AREA IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND SOIL EROSION AND SEDIMENT CONTROL PLAN.
- 3. PRIOR TO INSTALLING SURFACE WATER CONTROLS, SUCH AS TEMPORARY DIVERSION AND STONE CHECK DAMS, INSPECT EXISTING CONDITIONS TO ENSURE DISCHARGE LOCATIONS ARE STABLE. IF NOT STABLE, REVIEW DISCHARGE CONDITIONS WITH THE DESIGN ENGINEER AND IMPLEMENT ADDITIONAL STABILIZATION MEASURES PRIOR TO INSTALLING SURFACE WATER CONTROLS.
- 4. CONSTRUCT TEMPORARY SEDIMENT TRAPS AND/OR BASINS, DIVERSION SWALES AND BERMS WITH CHECK DAMS.
- 5. CLEAR AND GRUB EXISTING STUMPS AS NEEDED.
- INSTALL SOLAR INFRASTRUCTURE, INCLUDING RACKING, SOLAR MODULES, UTILITY CONNECTIONS, AND EQUIPMENT PADS. SOLAR ARRAY CONSTRUCTION WILL BEGIN WITH POSTS OR GROUND SCREWS BEING DRIVEN INTO THE GROUND; RACKING WILL THEN BE AFFIXED TO THE POSTS; AND MODULES WILL BE MOUNTED AND INSTALLED ON THE RACKS.
- STABILIZE SITE WITH SEED AND MULCH IN ALL DISTURBED AREAS. IF A MINIMUM 4" OF TOPSOIL IS NOT PRESENT, AMEND WITH LOAM BORROW FOR A MINIMUM 4" OF VEGETATIVE SUPPORT MATERIAL TO PROMOTE GRASS GROWTH. STABILIZE AREAS WITH A SLOPE OF 7% OR STEEPER WITH HYDROSEED WITH BONDED FIBER MATRIX OR HYDROSEED AND INSTALL EROSION CONTROL BLANKETS. MONITOR DISTURBED AREAS WEEKLY OR FOLLOWING RAIN EVENTS AND AMEND WITH ADDITIONAL SEEDING AS NEEDED UNTIL STABILIZATION IS ACHIEVED.
- 8. AFTER PHASE IS FULLY STABILIZED, REMOVE TEMPORARY STORMWATER CONTROLS.
- 9. ONCE TEMPORARY MEASURES ARE REMOVED, INSTALL THE REMAINING RACKING AND COMPONENTS THAT ARE LOCATED WHERE THE TEMPORARY MEASURES WERE REMOVED.

## SESC NARRATIVE

THE PROPOSED PROJECT INCLUDES CLEARING AND STUMP REMOVAL, THE CONSTRUCTION OF A SOLAR ARRAY, FENCES, ACCESS ROADS, AND SITE LANDSCAPING.

THE PROJECT SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN MULTIPLE PHASES TOTALING APPROXIMATELY 220ACRES OF DISTURBANCE.

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SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER POLLUTION CONTROL PLAN.

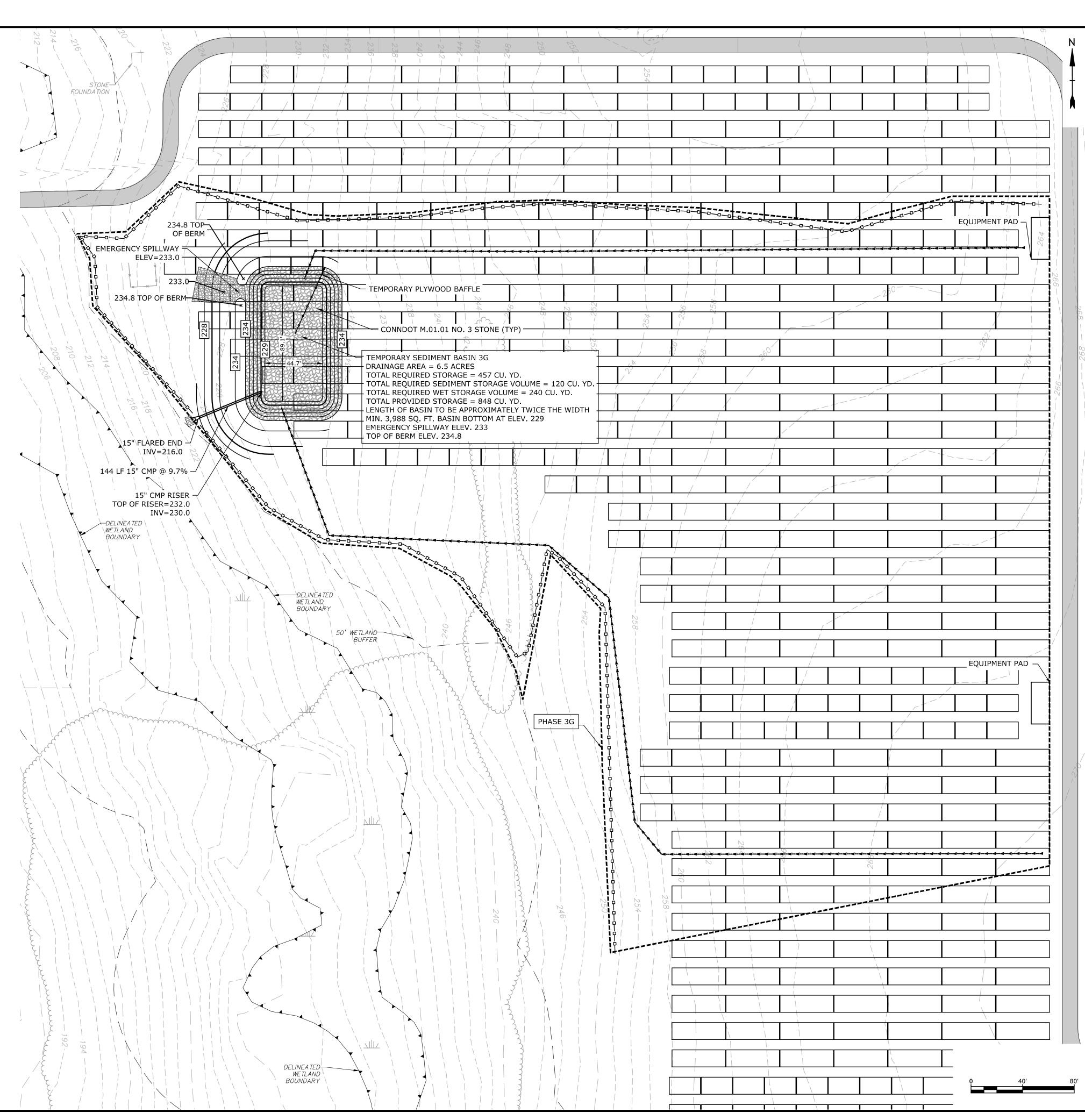
<u>LEGEND</u> PROPERTY LINE EXISTING INTERMEDIATE CONTOURS EXISTING INDEX CONTOURS SUBSTATION AREA CONTOURS GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER STONE WALL WETLAND BUFFER WATERCOURSE BUFFER DELINEATED WATERCOURSE VERNAL POOL DELINEATED WETLAND EXISTING LIMIT OF VEGETATION PROPOSED LIMIT OF VEGETATION PHASE LIMIT LINE FUTURE LIMIT OF SOLAR ARRAY PERIMETER EROSION CONTROL TEMP. CONVEYANCE SWALE WITH SCD **>-->-->-->-->-->-->-->-->-->--**

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TEMPORARY SOIL STOCKPILE

S&E CODES

SCD STONE CHECK DAM TCS TEMP. CONVEYANCE SWALE



Tighe&Bond

**ISSUED FOR** 

CONSTRUCTION

Quinebaug Solar Project

Quinebaug
Solar, LLC

Brooklyn &

Canterbury,

Connecticut

**VERIFY SCALE** 

BAR IS 1 INCH ON

ORIGINAL DRAWING

IF NOT ONE INCH ON

THIS SHEET, ADJUST

SCALES ACCORDINGLY

1 2/12/2021 PER CT DEEP COMMENT

SOIL EROSION AND SEDIMENT CONTROL PLAN - 3G

SESC-45

R0317

ALG

FJH

BSH/1FC

1" = 40'

12/2020

MARK DATE DESCRIPTION

FILE: SESC Plans\_10.dwg

PROJECT NO:

DRAWN BY

CHECKED:

APPROVED:

SCALE:

#### **GENERAL NOTES** Tighe&Bond EFFECTIVELY STABILIZE SOILS IN ONE PHASE 3 BEFORE COMMENCING GRADING AND CONSTRUCTION IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION. CONFORM TO THE CURRENT CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL FOR ANY SOIL DISTURBANCE TO THE EXISTING AGRICULTURAL FIELDS. -EQUIPMENT PAD REFER TO STORMWATER POLLUTION CONTROL PLAN FOR SEDIMENT TRAP/BASIN SIZING CALCULATIONS. . REFER TO CONSTRUCTION DRAWINGS FOR ALL DESIGN INFORMATION TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY REQUIRE MODIFICATION BY THE STORMWATER PROFESSIONAL DEPENDING ON ACTUAL FIELD CONDITIONS THROUGHOUT CONSTRUCTION DURATION. 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IF NOT STABLE, REVIEW DISCHARGE CONDITIONS WITH THE DESIGN ENGINEER AND IMPLEMENT ADDITIONAL STABILIZATION MEASURES PRIOR TO INSTALLING SURFACE WATER CONTROLS. 4. CONSTRUCT TEMPORARY SEDIMENT TRAPS AND/OR BASINS, DIVERSION SWALES AND BERMS WITH CHECK DAMS. 5. CLEAR AND GRUB EXISTING STUMPS AS NEEDED. INSTALL SOLAR INFRASTRUCTURE, INCLUDING RACKING, SOLAR MODULES, UTILITY CONNECTIONS, AND EQUIPMENT PADS. SOLAR ARRAY CONSTRUCTION WILL BEGIN WITH POSTS OR GROUND SCREWS BEING DRIVEN INTO THE GROUND; RACKING WILL THEN BE AFFIXED TO THE POSTS; AND MODULES <u>--</u>15'-WIDE WILL BE MOUNTED AND INSTALLED ON THE RACKS. **SPILLWAY** STABILIZE SITE WITH SEED AND MULCH IN ALL DISTURBED AREAS. IF A MINIMUM 4" OF TOPSOIL IS NOT PRESENT, AMEND WITH LOAM BORROW FOR A MINIMUM 4" OF VEGETATIVE SUPPORT MATERIAL TO PROMOTE GRASS GROWTH. STABILIZE AREAS WITH A SLOPE OF 7% OR STEEPER WITH HYDROSEED WITH BONDED FIBER MATRIX OR HYDROSEED AND INSTALL EROSION CONTROL BLANKETS. MONITOR DISTURBED AREAS WEEKLY OR FOLLOWING RAIN EVENTS AND AMEND WITH ADDITIONAL SEEDING AS NEEDED UNTIL STABILIZATION IS ACHIEVED. **ISSUED FOR** BERM 8. AFTER PHASE IS FULLY STABILIZED, REMOVE TEMPORARY STORMWATER CONTROLS. **CONSTRUCTION** SEDIMENT TRAP 3H TOTAL REQUIRED STORAGE = 496 CU. YD. 9. ONCE TEMPORARY MEASURES ARE REMOVED, INSTALL THE REMAINING RACKING AND COMPONENTS PROVIDED WET STORAGE = 280 CU. YD. THAT ARE LOCATED WHERE THE TEMPORARY MEASURES WERE REMOVED. PROVIDED DRY STORAGE = 398 CU. YD. TOTAL PROVIDED STORAGE = 678 CU. YD. DEPTH OF WET STORAGE = 2 FEET SESC NARRATIVE DEPTH OF DRY STORAGE = 2 FEET Quinebaug Solar Project MIN. 2,078 SQ. FT. TRAP BOTTOM AT ELEV. 260 THE PROPOSED PROJECT INCLUDES CLEARING AND STUMP REMOVAL, THE CONSTRUCTION OF A SOLAR WEIR CREST ELEV. 264 ARRAY, FENCES, ACCESS ROADS, AND SITE LANDSCAPING. TOP OF BERM ELEV. 265 THE PROJECT SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN MULTIPLE PHASES TOTALING APPROXIMATELY 220ACRES OF DISTURBANCE. TREE CLEARING IS ANTICIPATED TO OCCUR PRIOR TO SITE CONSTRUCTION, DURING WINTER 2020/2021, PER NDDB RECOMMENDATIONS. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES CONFORM TO THE STANDARDS OUTLINED IN Quinebaug Solar, LLC THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP), "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION. SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER POLLUTION CONTROL PLAN. <u>LEGEND</u> PROPERTY LINE EXISTING INTERMEDIATE CONTOURS Brooklyn & EXISTING INDEX CONTOURS SUBSTATION AREA CONTOURS Canterbury, GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER Connecticut **\*\*\*\*\*** STONE WALL WETLAND BUFFER WATERCOURSE BUFFER **VERIFY SCALE** DELINEATED WATERCOURSE PHASE 3H VERNAL POOL BAR IS 1 INCH ON DELINEATED WETLAND ORIGINAL DRAWING EXISTING LIMIT OF VEGETATION $\dots$ IF NOT ONE INCH ON PROPOSED LIMIT OF VEGETATION THIS SHEET, ADJUST PHASE LIMIT LINE SCALES ACCORDINGLY FUTURE LIMIT OF SOLAR ARRAY DELINEA TED-PERIMETER EROSION CONTROL —-----WETLAND BOUNDARY TEMP. CONVEYANCE SWALE WITH SCD **>-->-->-->-->-->-->-->-->-->--**TEMPORARY SOIL STOCKPILE 100' WETLAND BUFFER 1 2/12/2021 PER CT DEEP COMMENT MARK DATE DESCRIPTION S&E CODES 100' WETLAND SCD STONE CHECK DAM PROJECT NO: R0317 BUFFER TCS TEMP. CONVEYANCE SWALE 12/2020 100' WETLAND FILE: SESC Plans\_10.dwg BUFFER DRAWN BY ALG HECKED: BSH/1FC PPROVED: FJH -DELINEATED WETLAND BOUNDARY SOIL EROSION AND SEDIMENT CONTROL PLAN - 3H —DELINEATED WETLAND BOUNDARY SCALE: 1" = 40' SESC-46

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BASIN BOTTOM AT ELEV. 165 INV=166.0 GRAVEL ROAD/DRIVEWAY **EMERGENCY SPILLWAY ELEV. 169** 100' WETLAND VERNAL POOL BUFFER Connecticut TOP OF BERM ELEV. 170.7 STONE WALL TOP OF <del>-</del>169.00 - 84 LF 15" CMP @ 1.2% WETLAND BUFFER BERM WATERCOURSE BUFFER 15" FLARED END **VERIFY SCALE** DELINEATED WATERCOURSE INV=165.0 VERNAL POOL BAR IS 1 INCH ON DELINEATED-DELINEATED WETLAND ORIGINAL DRAWING EXISTING LIMIT OF VEGETATION $\dots$ BOUNDARY IF NOT ONE INCH ON PROPOSED LIMIT OF VEGETATION THIS SHEET, ADJUST WETLAND PHASE LIMIT LINE SCALES ACCORDINGLY \_\_\_\_\_\_\_ FUTURE LIMIT OF SOLAR ARRAY PERIMETER EROSION CONTROL —-----TEMP. CONVEYANCE SWALE WITH SCD **>-->-->-->-->-->-->-->-->-->--**TEMPORARY SOIL STOCKPILE 1 2/12/2021 PER CT DEEP COMMENT MARK DATE DESCRIPTION S&E CODES SCD STONE CHECK DAM PROJECT NO: R0317 -100' VERNAL -a--a--a--a--a--a--a--a--a--a--a TCS TEMP. CONVEYANCE SWALE POOL ENVELOPE 12/2020 FILE: SESC Plans\_10.dwg DRAWN BY: AI G CHECKED: BSH/1FC PPROVED: FJH WETLAND BOUNDARY SOIL EROSION AND SEDIMENT CONTROL PLAN - 3IA SCALE: 1" = 40' ♥ BUFFER SESC-47

## **GENERAL NOTES** EFFECTIVELY STABILIZE SOILS IN ONE PHASE 3 BEFORE COMMENCING GRADING AND CONSTRUCTION IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION. CONFORM TO THE CURRENT CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL FOR ANY SOIL DISTURBANCE TO THE EXISTING AGRICULTURAL FIELDS. REFER TO STORMWATER POLLUTION CONTROL PLAN FOR SEDIMENT TRAP/BASIN SIZING CALCULATIONS. . REFER TO CONSTRUCTION DRAWINGS FOR ALL DESIGN INFORMATION. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY REQUIRE MODIFICATION BY THE STORMWATER PROFESSIONAL DEPENDING ON ACTUAL FIELD CONDITIONS THROUGHOUT CONSTRUCTION DURATION. PERMANENT STORMWATER BASINS WHICH OVERLAP LOCATIONS OF TEMPORARY STORMWATER FEATURES USED DURING CONSTRUCTION TO MANAGE STORMWATER SHALL BE EXCAVATED TO A SUITABLE DEPTH TO REMOVE ACCUMULATED SEDIMENT AND RESTORE INFILTRATION CHARACTERISTICS OF THE NATIVE SOIL AT THE END OF CONSTRUCTION, ONCE SITE STABILIZATION HAS BEEN ACHIEVED. PERMANENT STORMWATER BASINS SHALL BE PROTECTED FROM SEDIMENT

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LADEN RUNOFF AND SHALL NOT BE DISTURBED BY VEHICLE TRAFFIC OR OTHER CONSTRUCTION

- 4. CONSTRUCT TEMPORARY SEDIMENT TRAPS AND/OR BASINS, DIVERSION SWALES AND BERMS WITH CHECK DAMS.
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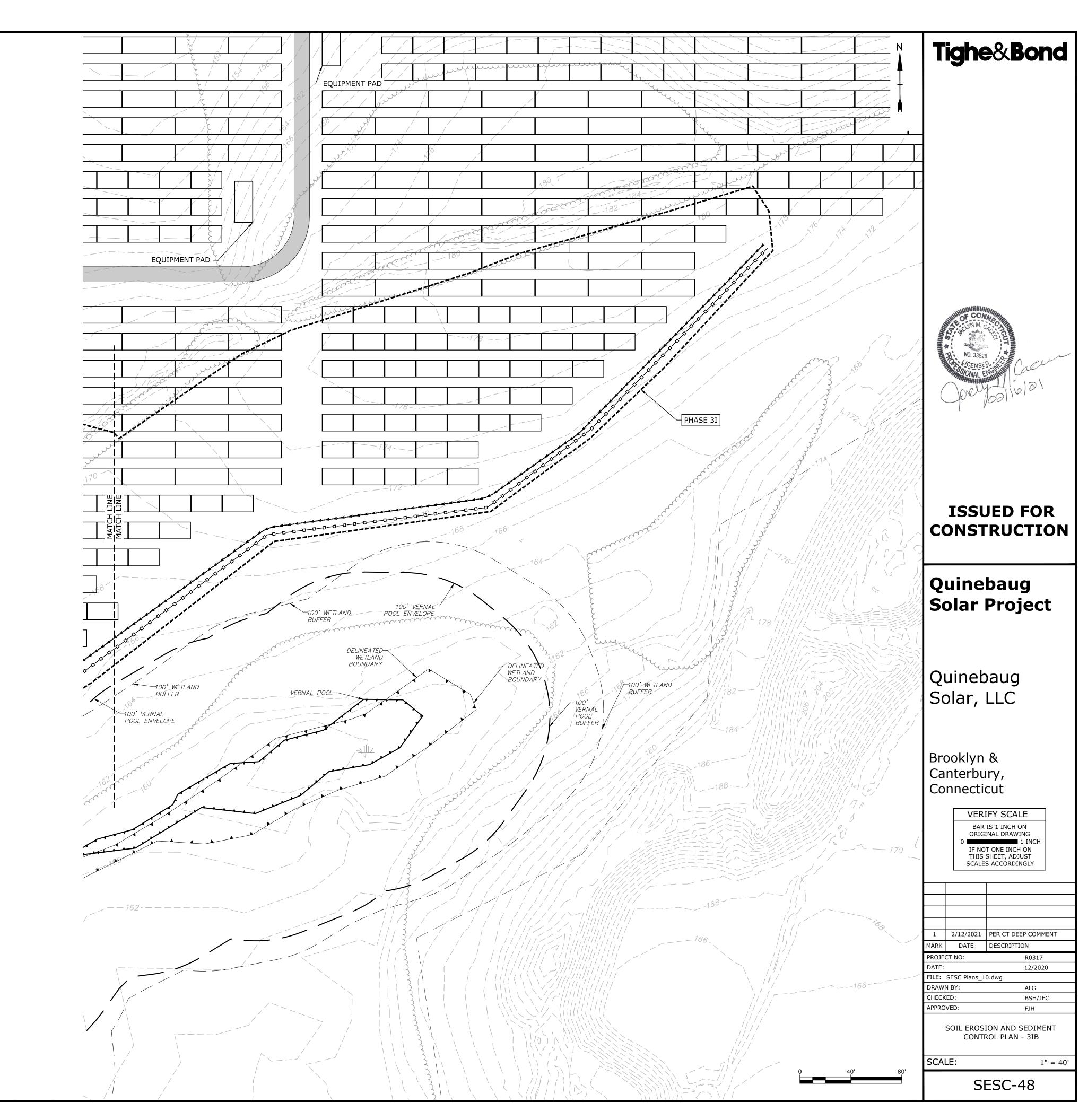
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TEMPORARY SOIL STOCKPILE

S&E CODES



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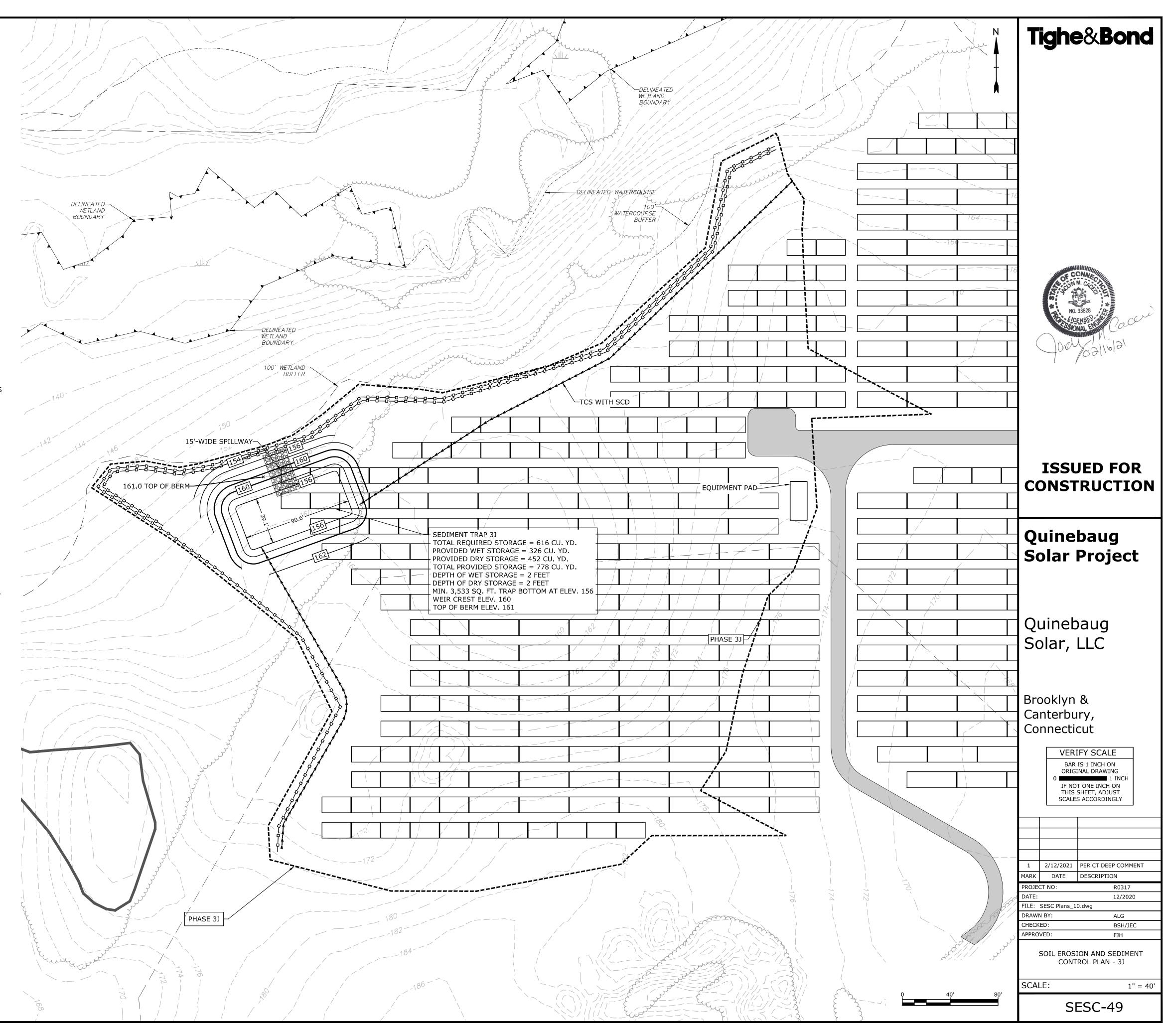
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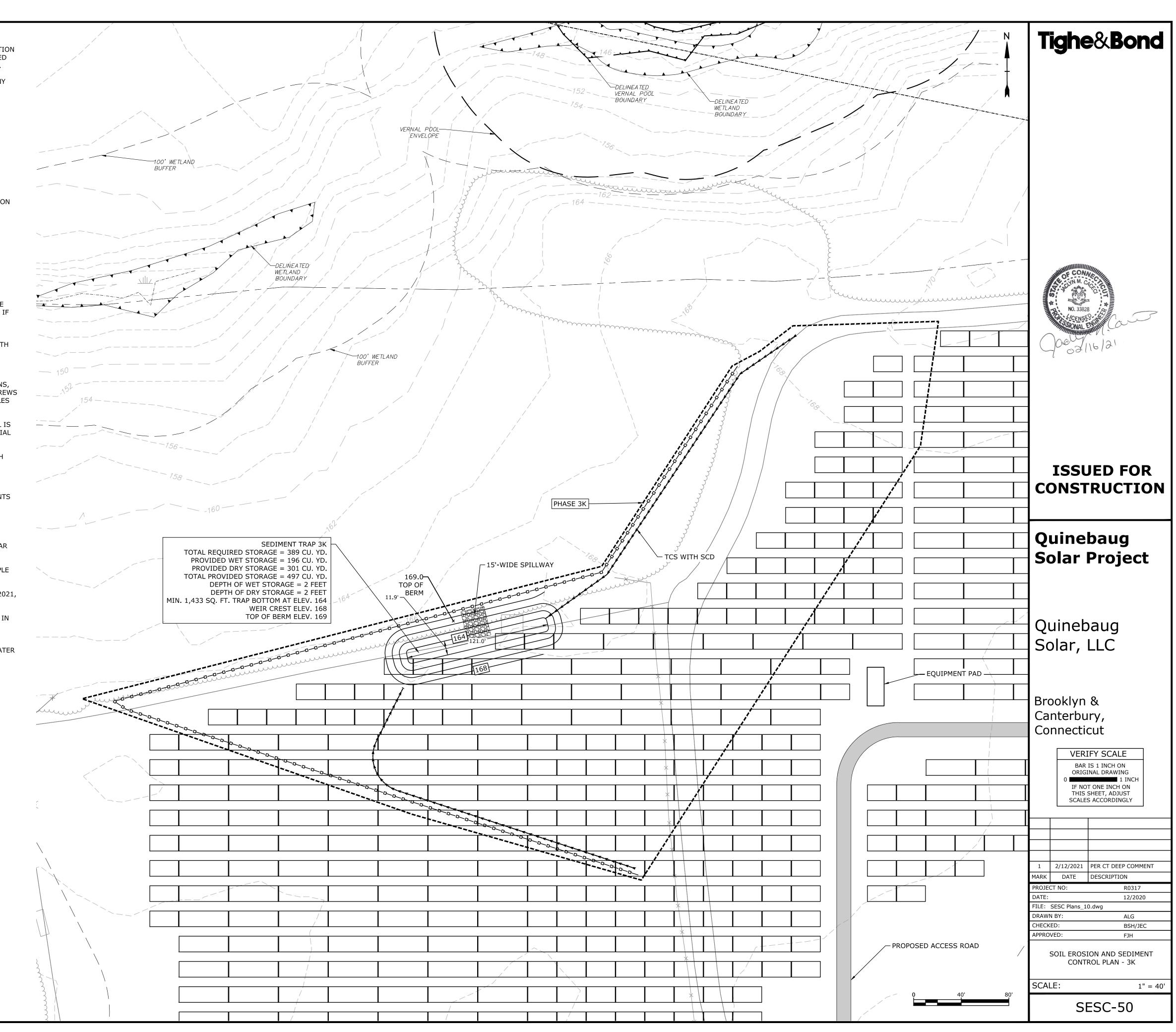
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TEMPORARY SOIL STOCKPILE

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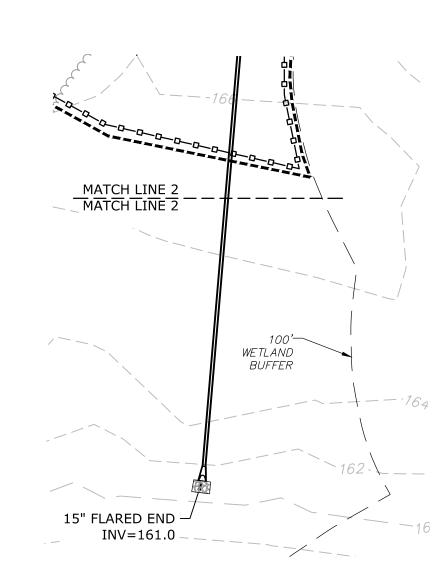
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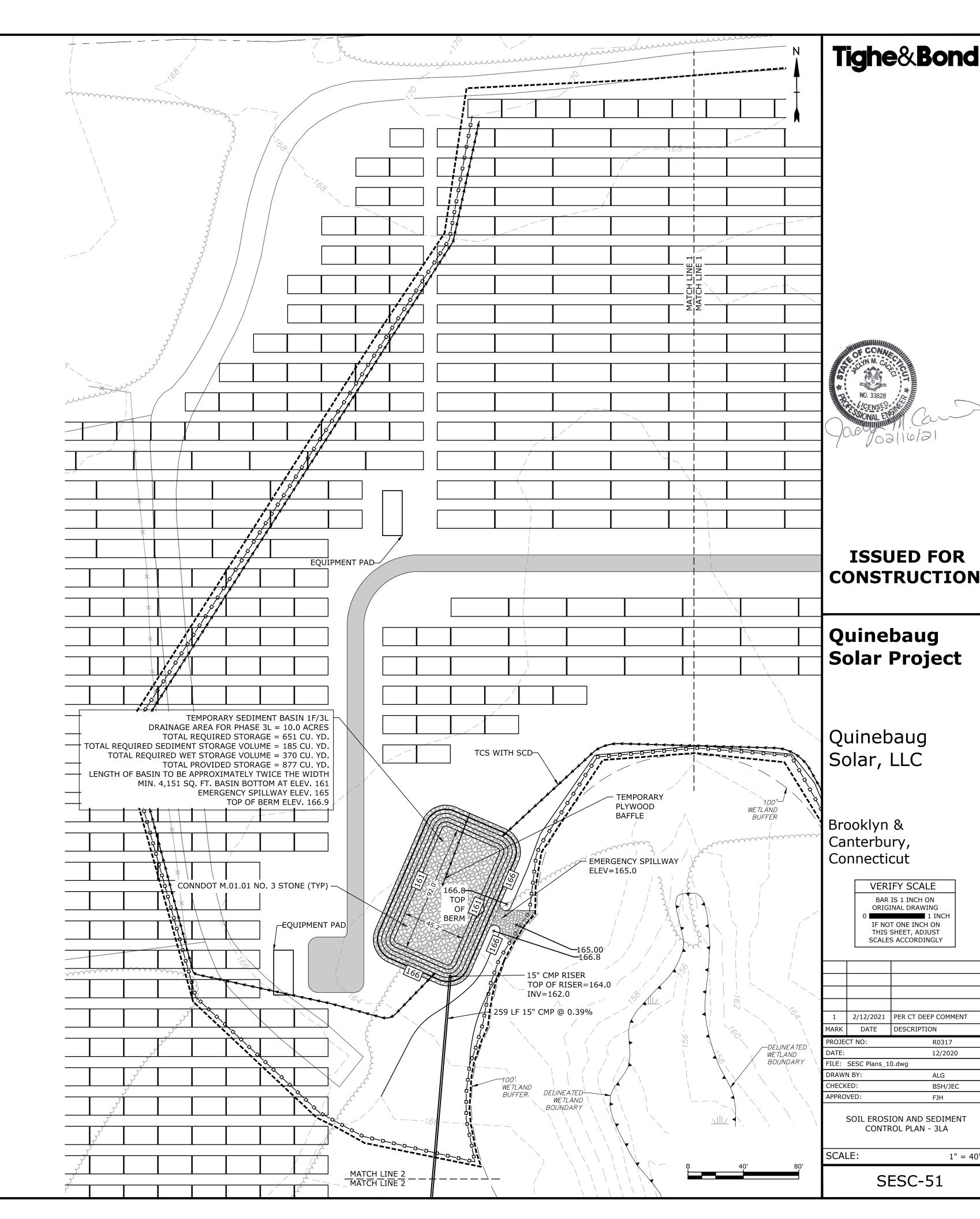
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TEMPORARY SOIL STOCKPILE

S&E CODES

SCD STONE CHECK DAM TCS TEMP. CONVEYANCE SWALE





R0317

AI G

FJH

12/2020

BSH/1FC

1" = 40'

NOTE: THE AREA IN WHICH PHASE 2L AND 4L OCCUR MUST BE STABILIZED AT COMMENCEMENT OF CONSTRUCTION OF PHASE 3L.

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## <u>LEGEND</u>

PROPERTY LINE EXISTING INTERMEDIATE CONTOURS EXISTING INDEX CONTOURS SUBSTATION AREA CONTOURS GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER STONE WALL WETLAND BUFFER WATERCOURSE BUFFER DELINEATED WATERCOURSE VERNAL POOL DELINEATED WETLAND EXISTING LIMIT OF VEGETATION PROPOSED LIMIT OF VEGETATION PHASE LIMIT LINE FUTURE LIMIT OF SOLAR ARRAY PERIMETER EROSION CONTROL TEMP. CONVEYANCE SWALE WITH SCD

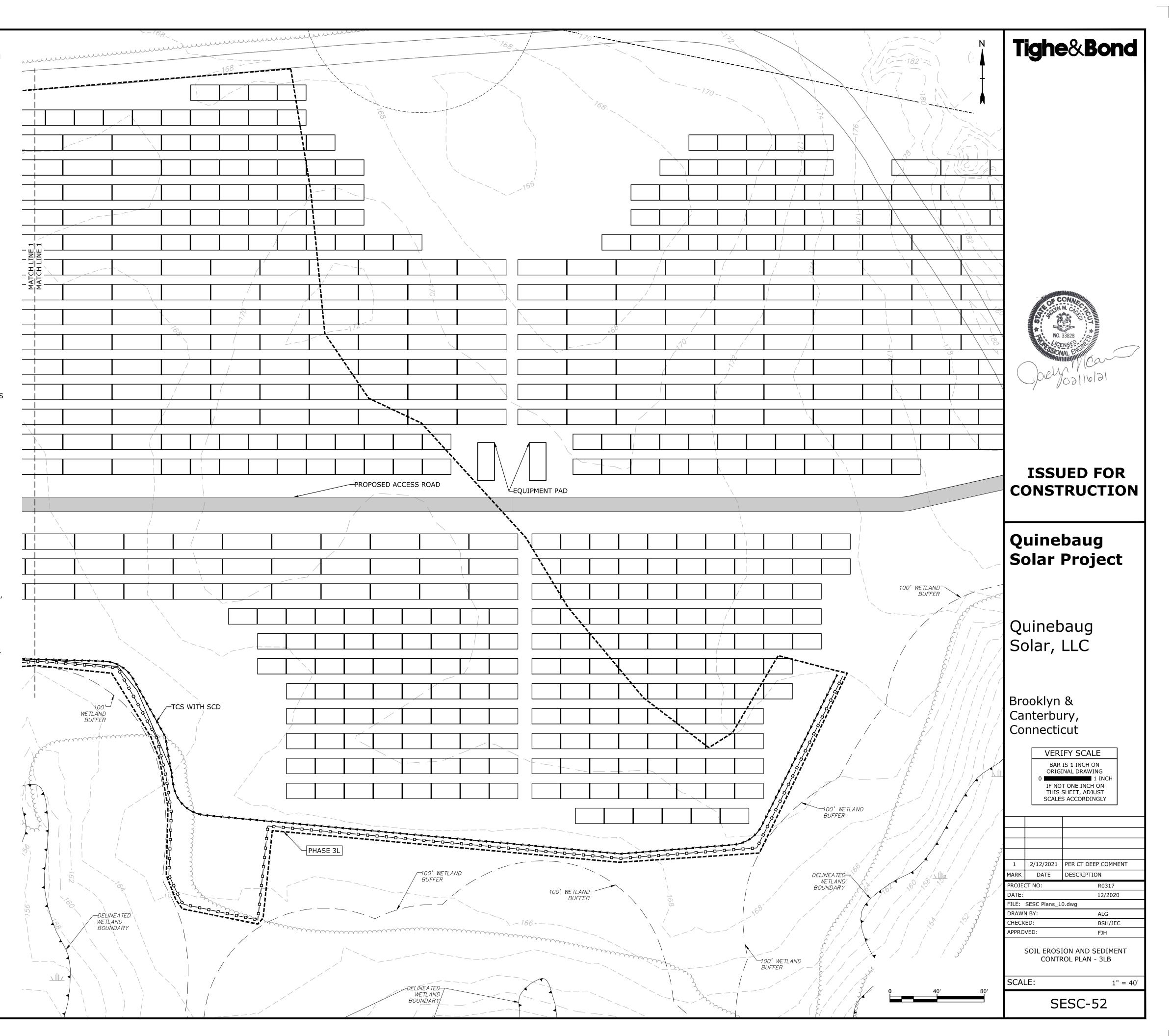
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TEMPORARY SOIL STOCKPILE

S&E CODES

SCD STONE CHECK DAM TCS TEMP. CONVEYANCE SWALE

NOTE: THE AREA IN WHICH PHASE 2L AND 4L OCCUR MUST BE STABILIZED AT COMMENCEMENT OF CONSTRUCTION OF PHASE 3L.



#### **GENERAL NOTES** Tighe&Bond EFFECTIVELY STABILIZE SOILS IN ONE PHASE 3 BEFORE COMMENCING GRADING AND CONSTRUCTION IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION. CONFORM TO THE CURRENT CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL FOR ANY SOIL DISTURBANCE TO THE EXISTING AGRICULTURAL FIELDS. REFER TO STORMWATER POLLUTION CONTROL PLAN FOR SEDIMENT TRAP/BASIN SIZING CALCULATIONS. . REFER TO CONSTRUCTION DRAWINGS FOR ALL DESIGN INFORMATION. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY REQUIRE MODIFICATION BY THE STORMWATER PROFESSIONAL DEPENDING ON ACTUAL FIELD CONDITIONS THROUGHOUT CONSTRUCTION DURATION. PERMANENT STORMWATER BASINS WHICH OVERLAP LOCATIONS OF TEMPORARY STORMWATER FEATURES USED DURING CONSTRUCTION TO MANAGE STORMWATER SHALL BE EXCAVATED TO A SUITABLE DEPTH TO REMOVE ACCUMULATED SEDIMENT AND RESTORE INFILTRATION CHARACTERISTICS OF THE NATIVE SOIL AT THE END OF CONSTRUCTION, ONCE SITE STABILIZATION HAS BEEN ACHIEVED. PERMANENT STORMWATER BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN RUNOFF AND SHALL NOT BE DISTURBED BY VEHICLE TRAFFIC OR OTHER CONSTRUCTION ACTIVITIES. **WATERCOURSE** CONSTRUCTION PHASE 3 BUFFER 1. FLAG THE LIMITS OF CONSTRUCTION. 2. INSTALL PERIMETER CONTROLS TO ESTABLISH PHASE WORK AREA IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND SOIL EROSION AND SEDIMENT CONTROL PLAN. 3. PRIOR TO INSTALLING SURFACE WATER CONTROLS, SUCH AS TEMPORARY DIVERSION AND STONE CHECK DAMS, INSPECT EXISTING CONDITIONS TO ENSURE DISCHARGE LOCATIONS ARE STABLE. IF NOT STABLE, REVIEW DISCHARGE CONDITIONS WITH THE DESIGN ENGINEER AND IMPLEMENT ADDITIONAL STABILIZATION MEASURES PRIOR TO INSTALLING SURFACE WATER CONTROLS. 4. CONSTRUCT TEMPORARY SEDIMENT TRAPS AND/OR BASINS, DIVERSION SWALES AND BERMS WITH CHECK DAMS. 5. CLEAR AND GRUB EXISTING STUMPS AS NEEDED. INSTALL SOLAR INFRASTRUCTURE, INCLUDING RACKING, SOLAR MODULES, UTILITY CONNECTIONS, AND EQUIPMENT PADS. SOLAR ARRAY CONSTRUCTION WILL BEGIN WITH POSTS OR GROUND SCREWS BEING DRIVEN INTO THE GROUND; RACKING WILL THEN BE AFFIXED TO THE POSTS; AND MODULES PHASE 3M WILL BE MOUNTED AND INSTALLED ON THE RACKS. *I DELINEATĘD*—√ STABILIZE SITE WITH SEED AND MULCH IN ALL DISTURBED AREAS. IF A MINIMUM 4" OF TOPSOIL IS *WATERCOURSE* NOT PRESENT, AMEND WITH LOAM BORROW FOR A MINIMUM 4" OF VEGETATIVE SUPPORT MATERIAL TO PROMOTE GRASS GROWTH. STABILIZE AREAS WITH A SLOPE OF 7% OR STEEPER WITH HYDROSEED WITH BONDED FIBER MATRIX OR HYDROSEED AND INSTALL EROSION CONTROL BLANKETS. MONITOR DISTURBED AREAS WEEKLY OR FOLLOWING RAIN EVENTS AND AMEND WITH ADDITIONAL SEEDING AS NEEDED UNTIL STABILIZATION IS ACHIEVED. **ISSUED FOR** 8. AFTER PHASE IS FULLY STABILIZED, REMOVE TEMPORARY STORMWATER CONTROLS. CONSTRUCTION 9. ONCE TEMPORARY MEASURES ARE REMOVED, INSTALL THE REMAINING RACKING AND COMPONENTS THAT ARE LOCATED WHERE THE TEMPORARY MEASURES WERE REMOVED. SESC NARRATIVE Quinebaug Solar Project SEDIMENT TRAP 3M THE PROPOSED PROJECT INCLUDES CLEARING AND STUMP REMOVAL, THE CONSTRUCTION OF A SOLAR TOTAL REQUIRED STORAGE = 201 CU. YD. ARRAY, FENCES, ACCESS ROADS, AND SITE LANDSCAPING. PROVIDED WET STORAGE = 103 CU. YD. PROVIDED DRY STORAGE = 164 CU, YD. THE PROJECT SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN MULTIPLE TOTAL PROVIDED STORAGE = 267 CU. YD. PHASES TOTALING APPROXIMATELY 220ACRES OF DISTURBANCE. DEPTH OF WET STORAGE = 2 FEET DEPTH OF DRY STORAGE = 2 FEET TREE CLEARING IS ANTICIPATED TO OCCUR PRIOR TO SITE CONSTRUCTION, DURING WINTER 2020/2021, MIN. 697 SQ. FT. TRAP BOTTOM AT ELEV. 168 PER NDDB RECOMMENDATIONS. WEIR CREST ELEV. 172 TOP OF BERM ELEV. 173 SOIL EROSION AND SEDIMENTATION CONTROL MEASURES CONFORM TO THE STANDARDS OUTLINED IN Quinebaug Solar, LLC THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP), "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION. ─173.0 TOP OF BERM SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER 15'-WIDE SPILLWAY POLLUTION CONTROL PLAN. <u>LEGEND</u> PROPERTY LINE \_\_\_\_\_\_\_ EXISTING INTERMEDIATE CONTOURS Brooklyn & EXISTING INDEX CONTOURS SUBSTATION AREA CONTOURS Canterbury, GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER Connecticut DELINEATED-STONE WALL 000000000000 WETLAND WETLAND BUFFER BOUNDARY WATERCOURSE BUFFER **VERIFY SCALE** DELINEATED WATERCOURSE VERNAL POOL 100' WETLAND BAR IS 1 INCH ON DELINEATED WETLAND BUFFER ORIGINAL DRAWING \_\_\_\_\_ EXISTING LIMIT OF VEGETATION $\dots$ IF NOT ONE INCH ON PROPOSED LIMIT OF VEGETATION THIS SHEET, ADJUST PHASE LIMIT LINE SCALES ACCORDINGLY \_\_\_\_\_\_\_ FUTURE LIMIT OF SOLAR ARRAY \_\_\_\_\_ PERIMETER EROSION CONTROL —-----TEMP. CONVEYANCE SWALE WITH SCD **>-->-->-->-->-->-->-->-->-->--**PERMANENT LOW FLOW TEMPORARY SOIL STOCKPILE DELINEATED-CROSSING TO BE WETLAND MAINTAINED DURING *BOUNDARY* CONSTRUCTION. 1 2/12/2021 PER CT DEEP COMMENT MARK DATE DESCRIPTION S&E CODES SCD STONE CHECK DAM PROJECT NO: R0317 TCS TEMP. CONVEYANCE SWALE 12/2020 FILE: SESC Plans\_10.dwg DRAWN BY: ALG CHECKED: BSH/1FC PPROVED: FJH SOIL EROSION AND SEDIMENT CONTROL PLAN - 3M SCALE: 1" = 40' SESC-53

#### **GENERAL NOTES** EFFECTIVELY STABILIZE SOILS IN ONE PHASE 3 BEFORE COMMENCING GRADING AND CONSTRUCTION IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION. CONFORM TO THE CURRENT CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL FOR ANY SOIL DISTURBANCE TO THE EXISTING AGRICULTURAL FIELDS. REFER TO STORMWATER POLLUTION CONTROL PLAN FOR SEDIMENT TRAP/BASIN SIZING CALCULATIONS. REFER TO CONSTRUCTION DRAWINGS FOR ALL DESIGN INFORMATION. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY REQUIRE MODIFICATION BY THE STORMWATER PROFESSIONAL DEPENDING ON ACTUAL FIELD CONDITIONS THROUGHOUT CONSTRUCTION DURATION. PERMANENT STORMWATER BASINS WHICH OVERLAP LOCATIONS OF TEMPORARY STORMWATER FEATURES USED DURING CONSTRUCTION TO MANAGE STORMWATER SHALL BE EXCAVATED TO A SUITABLE DEPTH TO REMOVE ACCUMULATED SEDIMENT AND RESTORE INFILTRATION CHARACTERISTICS OF THE NATIVE SOIL AT THE END OF CONSTRUCTION, ONCE SITE STABILIZATION HAS BEEN ACHIEVED. PERMANENT STORMWATER BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN RUNOFF AND SHALL NOT BE DISTURBED BY VEHICLE TRAFFIC OR OTHER CONSTRUCTION ACTIVITIES. CONSTRUCTION PHASE 3 1. FLAG THE LIMITS OF CONSTRUCTION. 2. INSTALL PERIMETER CONTROLS TO ESTABLISH PHASE WORK AREA IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND SOIL EROSION AND SEDIMENT CONTROL PLAN. 3. PRIOR TO INSTALLING SURFACE WATER CONTROLS, SUCH AS TEMPORARY DIVERSION AND STONE CHECK DAMS, INSPECT EXISTING CONDITIONS TO ENSURE DISCHARGE LOCATIONS ARE STABLE. IF NOT STABLE, REVIEW DISCHARGE CONDITIONS WITH THE DESIGN ENGINEER AND IMPLEMENT ADDITIONAL STABILIZATION MEASURES PRIOR TO INSTALLING SURFACE WATER CONTROLS. 4. CONSTRUCT TEMPORARY SEDIMENT TRAPS AND/OR BASINS, DIVERSION SWALES AND BERMS WITH CHECK DAMS. 5. CLEAR AND GRUB EXISTING STUMPS AS NEEDED. INSTALL SOLAR INFRASTRUCTURE, INCLUDING RACKING, SOLAR MODULES, UTILITY CONNECTIONS, AND EQUIPMENT PADS. SOLAR ARRAY CONSTRUCTION WILL BEGIN WITH POSTS OR GROUND SCREWS BEING DRIVEN INTO THE GROUND; RACKING WILL THEN BE AFFIXED TO THE POSTS; AND MODULES WILL BE MOUNTED AND INSTALLED ON THE RACKS. STABILIZE SITE WITH SEED AND MULCH IN ALL DISTURBED AREAS. IF A MINIMUM 4" OF TOPSOIL IS NOT PRESENT, AMEND WITH LOAM BORROW FOR A MINIMUM 4" OF VEGETATIVE SUPPORT MATERIAL TO PROMOTE GRASS GROWTH. STABILIZE AREAS WITH A SLOPE OF 7% OR STEEPER WITH HYDROSEED WITH BONDED FIBER MATRIX OR HYDROSEED AND INSTALL EROSION CONTROL BLANKETS. MONITOR DISTURBED AREAS WEEKLY OR FOLLOWING RAIN EVENTS AND AMEND WITH ADDITIONAL SEEDING AS NEEDED UNTIL STABILIZATION IS ACHIEVED. PHASE 3N 8. AFTER PHASE IS FULLY STABILIZED, REMOVE TEMPORARY STORMWATER CONTROLS. 9. ONCE TEMPORARY MEASURES ARE REMOVED, INSTALL THE REMAINING RACKING AND COMPONENTS TCS WITH SCD THAT ARE LOCATED WHERE THE TEMPORARY MEASURES WERE REMOVED. SESC NARRATIVE THE PROPOSED PROJECT INCLUDES CLEARING AND STUMP REMOVAL, THE CONSTRUCTION OF A SOLAR ARRAY, FENCES, ACCESS ROADS, AND SITE LANDSCAPING. THE PROJECT SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN MULTIPLE PHASES TOTALING APPROXIMATELY 220ACRES OF DISTURBANCE. TREE CLEARING IS ANTICIPATED TO OCCUR PRIOR TO SITE CONSTRUCTION, DURING WINTER 2020/2021, PER NDDB RECOMMENDATIONS. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES CONFORM TO THE STANDARDS OUTLINED IN THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP), "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION. SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER POLLUTION CONTROL PLAN. <u>LEGEND</u> PROPERTY LINE \_\_\_\_\_\_\_ EXISTING INTERMEDIATE CONTOURS EXISTING INDEX CONTOURS SUBSTATION AREA CONTOURS GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER STONE WALL WETLAND BUFFER WATERCOURSE BUFFER DELINEATED WATERCOURSE VERNAL POOL DELINEATED WETLAND \_\_\_\_\_ EXISTING LIMIT OF VEGETATION $\dots$ PROPOSED LIMIT OF VEGETATION PHASE LIMIT LINE \_\_\_\_\_\_\_ FUTURE LIMIT OF SOLAR ARRAY \_\_\_\_\_ SEDIMENT TRAP 3N PERIMETER EROSION CONTROL -----TOTAL REQUIRED STORAGE = 616 CU. YD. TEMP. CONVEYANCE SWALE WITH SCD **>-->-->-->-->-->-->-->-->-->--**PROVIDED WET STORAGE = 309 CU. YD. PROVIDED DRY STORAGE = 432 CU. YD. TEMPORARY SOIL STOCKPILE TOTAL PROVIDED STORAGE = 741 CU. YD. DEPTH OF WET STORAGE = 2 FEET DEPTH OF DRY STORAGE = 2 FEET

MIN. 3,291 SQ. FT. TRAP BOTTOM AT ELEV. 244

WEIR CREST ELEV. 248

TOP OF BERM ELEV. 249

249.0 TOP OF BERM

-15'-WIDE

**SPILLWAY** 

Quinebaug Solar Project Quinebaug Solar, LLC Brooklyn & Canterbury, Connecticut **VERIFY SCALE** BAR IS 1 INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY 1 2/12/2021 PER CT DEEP COMMENT MARK DATE DESCRIPTION PROJECT NO: R0317 12/2020 FILE: SESC Plans\_10.dwg DRAWN BY: ALG HECKED: BSH/1FC PPROVED: FJH SOIL EROSION AND SEDIMENT CONTROL PLAN - 3N SCALE: 1" = 40'

SESC-54

**ISSUED FOR** 

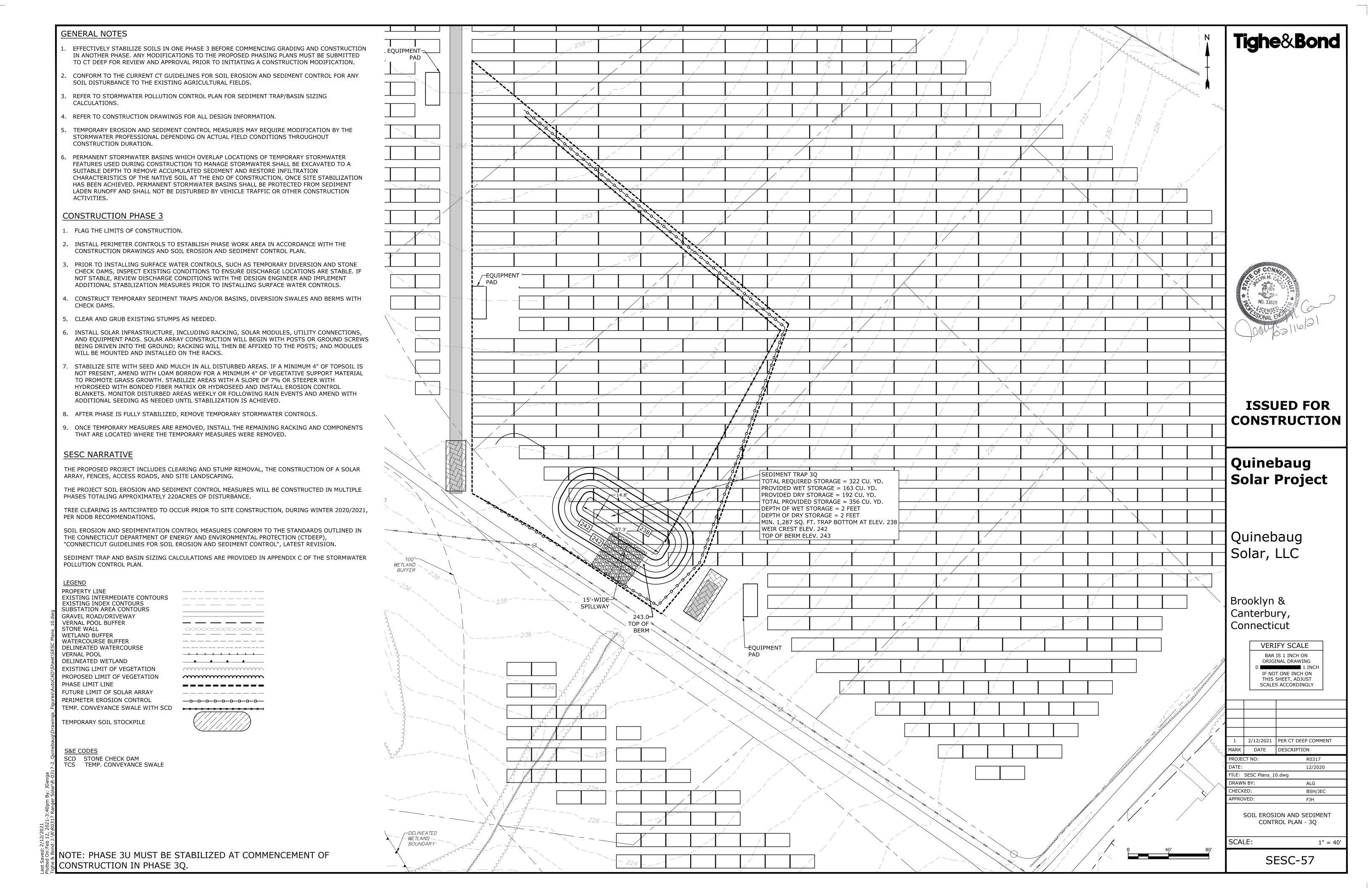
**CONSTRUCTION** 

Tighe&Bond

S&E CODES

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PHASE 30 SOIL EROSION AND SEDIMENTATION CONTROL MEASURES CONFORM TO THE STANDARDS OUTLINED IN Quinebaug Solar, LLC THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP), "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION. SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER SEDIMENT TRAP 30 POLLUTION CONTROL PLAN. TOTAL REQUIRED STORAGE = 576 CU. YD. PROVIDED WET STORAGE = 327 CU. YD. PROVIDED DRY STORAGE = 470 CU. YD. <u>LEGEND</u> TOTAL PROVIDED STORAGE = 797 CU. YD. PROPERTY LINE DEPTH OF WET STORAGE = 2 FEET EXISTING INTERMEDIATE CONTOURS Brooklyn & DEPTH OF DRY STORAGE = 2 FEET EXISTING INDEX CONTOURS \_ \_ \_ \_ \_ \_ \_ \_ · MIN. 3,129 SQ. FT. TRAP BOTTOM AT ELEV. 242 🛚 SUBSTATION AREA CONTOURS Canterbury, WEIR CREST ELEV. 246 GRAVEL ROAD/DRIVEWAY TOP OF BERM ELEV. 247 VERNAL POOL BUFFER Connecticut STONE WALL .000000000000 WETLAND BUFFER WATERCOURSE BUFFER **VERIFY SCALE** DELINEATED WATERCOURSE VERNAL POOL BAR IS 1 INCH ON = 15'-WIDE SPILLWAY — DELINEATED WETLAND ORIGINAL DRAWING \_\_\_\_\_ EXISTING LIMIT OF VEGETATION $\dots$ IF NOT ONE INCH ON PROPOSED LIMIT OF VEGETATION THIS SHEET, ADJUST PHASE LIMIT LINE SCALES ACCORDINGLY BERM \_\_\_\_\_\_\_ FUTURE LIMIT OF SOLAR ARRAY \_\_\_\_\_ PERIMETER EROSION CONTROL -----TEMP. CONVEYANCE SWALE WITH SCD **>-->-->-->-->-->-->-->-->-->--**- EQUIPMENT PAD TEMPORARY SOIL STOCKPILE 1 2/12/2021 PER CT DEEP COMMENT MARK DATE DESCRIPTION S&E CODES SCD STONE CHECK DAM PROJECT NO: R0317 TCS TEMP. CONVEYANCE SWALE 12/2020 FILE: SESC Plans\_10.dwg DRAWN BY ALG HECKED: BSH/1FC PPROVED: FJH SOIL EROSION AND SEDIMENT CONTROL PLAN - 30 SCALE: 1'' = 40'NOTE: PHASE 3P MUST BE STABILIZED AT COMMENCEMENT OF SESC-55 ---INV ELEV CONSTRUCTION IN PHASE 30. = 240.01

#### **GENERAL NOTES** Tighe&Bond EFFECTIVELY STABILIZE SOILS IN ONE PHASE 3 BEFORE COMMENCING GRADING AND CONSTRUCTION IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION. CONFORM TO THE CURRENT CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL FOR ANY SOIL DISTURBANCE TO THE EXISTING AGRICULTURAL FIELDS. REFER TO STORMWATER POLLUTION CONTROL PLAN FOR SEDIMENT TRAP/BASIN SIZING CALCULATIONS. . REFER TO CONSTRUCTION DRAWINGS FOR ALL DESIGN INFORMATION TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY REQUIRE MODIFICATION BY THE STORMWATER PROFESSIONAL DEPENDING ON ACTUAL FIELD CONDITIONS THROUGHOUT CONSTRUCTION DURATION. 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SOIL EROSION AND SEDIMENTATION CONTROL MEASURES CONFORM TO THE STANDARDS OUTLINED IN PROVIDED DRY STORAGE = 500 CU. YD. Quinebaug Solar, LLC THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP), TOTAL PROVIDED STORAGE = 864 CU. YD. "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION. DEPTH OF WET STORAGE = 2 FEET DEPTH OF DRY STORAGE = 2 FEET SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER MIN. 4,078 SQ. FT. TRAP BOTTOM AT ELEV. 216 POLLUTION CONTROL PLAN. WEIR CREST ELEV. 220 L TOP OF BERM ELEV. 221 <u>LEGEND</u> PROPERTY LINE EXISTING INTERMEDIATE CONTOURS Brooklyn & EXISTING INDEX CONTOURS SUBSTATION AREA CONTOURS Canterbury, GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER Connecticut STONE WALL WETLAND BUFFER WATERCOURSE BUFFER PHASE 3P **VERIFY SCALE** DELINEATED WATERCOURSE VERNAL POOL BAR IS 1 INCH ON DELINEATED WETLAND ORIGINAL DRAWING EXISTING LIMIT OF VEGETATION $\dots$ IF NOT ONE INCH ON PROPOSED LIMIT OF VEGETATION **─**15'-WIDE THIS SHEET, ADJUST PHASE LIMIT LINE SCALES ACCORDINGLY / SPILLWAY FUTURE LIMIT OF SOLAR ARRAY PERIMETER EROSION CONTROL —-----TEMP. CONVEYANCE SWALE WITH SCD **>-->-->-->-->-->-->-->-->-->--**TEMPORARY SOIL STOCKPILE LEQUIPMENT PAD TOP OF 1 2/12/2021 PER CT DEEP COMMENT BERM MARK DATE DESCRIPTION S&E CODES SCD STONE CHECK DAM PROJECT NO: R0317 TCS TEMP. CONVEYANCE SWALE 12/2020 FILE: SESC Plans\_10.dwg DRAWN BY: ALG CHECKED: BSH/1FC PPROVED: FJH SOIL EROSION AND SEDIMENT CONTROL PLAN - 3P SCALE: 1" = 40' NOTE: PHASE 3P MUST BE STABILIZED AT COMMENCEMENT OF SESC-56 CONSTRUCTION IN PHASE 30.



#### **GENERAL NOTES** Tighe&Bond EFFECTIVELY STABILIZE SOILS IN ONE PHASE 3 BEFORE COMMENCING GRADING AND CONSTRUCTION IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION. CONFORM TO THE CURRENT CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL FOR ANY SOIL DISTURBANCE TO THE EXISTING AGRICULTURAL FIELDS. REFER TO STORMWATER POLLUTION CONTROL PLAN FOR SEDIMENT TRAP/BASIN SIZING CALCULATIONS. . REFER TO CONSTRUCTION DRAWINGS FOR ALL DESIGN INFORMATION. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY REQUIRE MODIFICATION BY THE STORMWATER PROFESSIONAL DEPENDING ON ACTUAL FIELD CONDITIONS THROUGHOUT CONSTRUCTION DURATION. 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SOIL EROSION AND SEDIMENTATION CONTROL MEASURES CONFORM TO THE STANDARDS OUTLINED IN Quinebaug Solar, LLC THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP), SEDIMENT TRAP 3R "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION. TOTAL REQUIRED STORAGE = 456 CU. YD. PROVIDED WET STORAGE = 228 CU. YD. SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER PROVIDED DRY STORAGE = 331 CU. YD. POLLUTION CONTROL PLAN. TOTAL PROVIDED STORAGE = 559 CU. YD. DEPTH OF WET STORAGE = 2 FEET DEPTH OF DRY STORAGE = 2 FEET <u>LEGEND</u> MIN. 2,128 SQ. FT. TRAP BOTTOM AT ELEV. 212 PROPERTY LINE WEIR CREST ELEV. 216 EXISTING INTERMEDIATE CONTOURS Brooklyn & TOP OF BERM ELEV. 217 EXISTING INDEX CONTOURS SUBSTATION AREA CONTOURS Canterbury, GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER Connecticut STONE WALL 15'-WIDE-TOP OF WETLAND BUFFER SPILLWAY WATERCOURSE BUFFER **VERIFY SCALE** DELINEATED WATERCOURSE VERNAL POOL BAR IS 1 INCH ON DELINEATED WETLAND ORIGINAL DRAWING EXISTING LIMIT OF VEGETATION $\dots$ IF NOT ONE INCH ON PROPOSED LIMIT OF VEGETATION THIS SHEET, ADJUST PHASE LIMIT LINE SCALES ACCORDINGLY \_\_\_\_\_\_\_ PHASE 3R FUTURE LIMIT OF SOLAR ARRAY PERIMETER EROSION CONTROL —-----TEMP. CONVEYANCE SWALE WITH SCD **>-->-->-->-->-->-->-->-->-->--**TEMPORARY SOIL STOCKPILE WETLAND 1 2/12/2021 PER CT DEEP COMMENT MARK DATE DESCRIPTION S&E CODES SCD STONE CHECK DAM PROJECT NO: R0317 TCS TEMP. CONVEYANCE SWALE 12/2020 FILE: SESC Plans\_10.dwg DRAWN BY: ALG CHECKED: BSH/1FC PPROVED: FJH SOIL EROSION AND SEDIMENT CONTROL PLAN - 3R SCALE: 1" = 40' SESC-58

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THE PROPOSED PROJECT INCLUDES CLEARING AND STUMP REMOVAL, THE CONSTRUCTION OF A SOLAR ARRAY, FENCES, ACCESS ROADS, AND SITE LANDSCAPING.

THE PROJECT SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN MULTIPLE PHASES TOTALING APPROXIMATELY 220ACRES OF DISTURBANCE.

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SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER POLLUTION CONTROL PLAN.

## <u>LEGEND</u>

PROPERTY LINE EXISTING INTERMEDIATE CONTOURS EXISTING INDEX CONTOURS SUBSTATION AREA CONTOURS GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER STONE WALL WETLAND BUFFER WATERCOURSE BUFFER DELINEATED WATERCOURSE VERNAL POOL DELINEATED WETLAND EXISTING LIMIT OF VEGETATION PROPOSED LIMIT OF VEGETATION PHASE LIMIT LINE FUTURE LIMIT OF SOLAR ARRAY PERIMETER EROSION CONTROL TEMP. CONVEYANCE SWALE WITH SCD

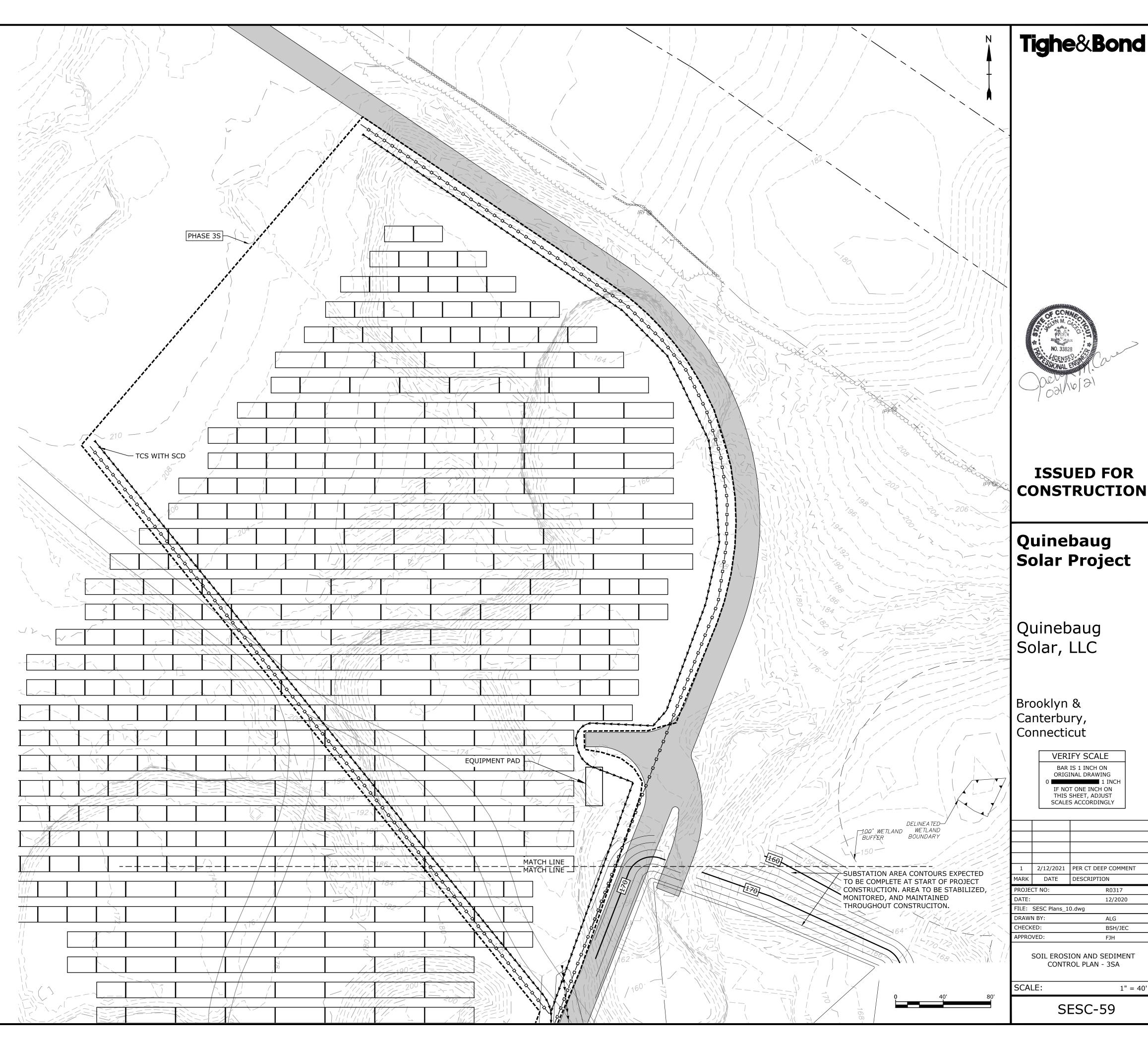
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NOTE: SUBSTATION AREA CONTOURS EXPECTED TO BE COMPLETE AT START OF PROJECT CONSTRUCTION.

TEMPORARY SOIL STOCKPILE

S&E CODES

SCD STONE CHECK DAM TCS TEMP. CONVEYANCE SWALE



BAR IS 1 INCH ON

ORIGINAL DRAWING

THIS SHEET, ADJUST

R0317

ALG

FJH

SESC-59

BSH/1FC

1" = 40'

12/2020

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Quinebaug Solar, LLC

Brooklyn & Canterbury, Connecticut

WETLAND BOUNDARY

100' WETLAND

15" FLARED END -

INV=170.5

BUFFER /

**VERIFY SCALE** BAR IS 1 INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

1 2/12/2021 PER CT DEEP COMMENT DATE DESCRIPTION PROJECT NO: R0317 12/2020 FILE: SESC Plans\_10.dwg DRAWN BY AI G HECKED: BSH/1FC FJH

> SOIL EROSION AND SEDIMENT CONTROL PLAN - 3SB

SCALE: 1" = 40'

SESC-60

NOTE: SUBSTATION AREA CONTOURS EXPECTED TO BE COMPLETE AT START OF PROJECT CONSTRUCTION.

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VERNAL POOL DELINEATED WETLAND

EXISTING LIMIT OF VEGETATION PROPOSED LIMIT OF VEGETATION PHASE LIMIT LINE

FUTURE LIMIT OF SOLAR ARRAY PERIMETER EROSION CONTROL TEMP. CONVEYANCE SWALE WITH SCD

TEMPORARY SOIL STOCKPILE

S&E CODES

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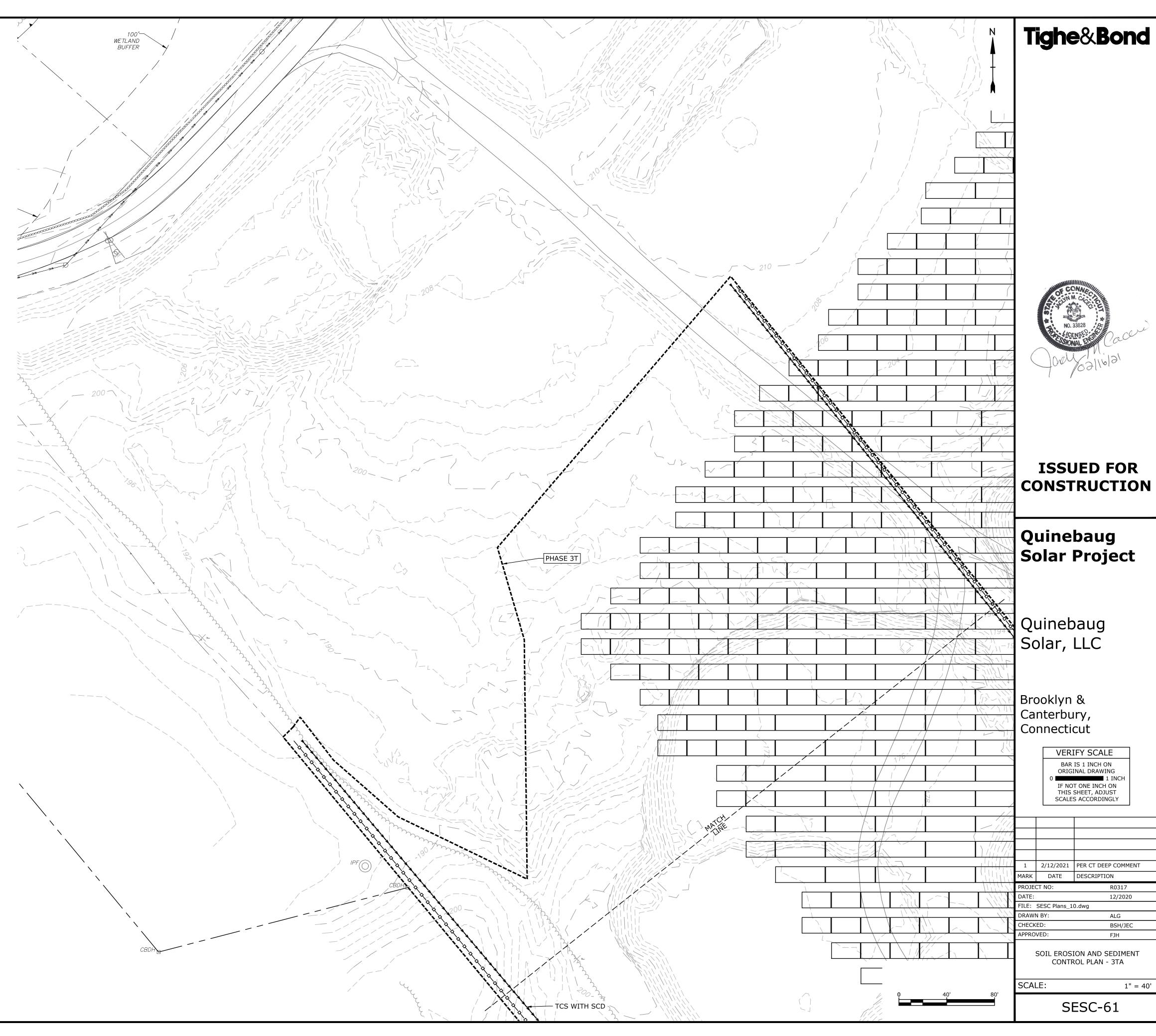
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S&E CODES



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## SESC NARRATIVE

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THE PROJECT SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN MULTIPLE PHASES TOTALING APPROXIMATELY 220ACRES OF DISTURBANCE.

TREE CLEARING IS ANTICIPATED TO OCCUR PRIOR TO SITE CONSTRUCTION, DURING WINTER 2020/2021, PER NDDB RECOMMENDATIONS.

SOIL EROSION AND SEDIMENTATION CONTROL MEASURES CONFORM TO THE STANDARDS OUTLINED IN THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP),

"CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION.

SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER POLLUTION CONTROL PLAN.

<u>LEGEND</u> PROPERTY LINE EXISTING INTERMEDIATE CONTOURS EXISTING INDEX CONTOURS SUBSTATION AREA CONTOURS GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER STONE WALL WETLAND BUFFER WATERCOURSE BUFFER DELINEATED WATERCOURSE VERNAL POOL DELINEATED WETLAND EXISTING LIMIT OF VEGETATION PROPOSED LIMIT OF VEGETATION PHASE LIMIT LINE FUTURE LIMIT OF SOLAR ARRAY PERIMETER EROSION CONTROL TEMP. CONVEYANCE SWALE WITH SCD

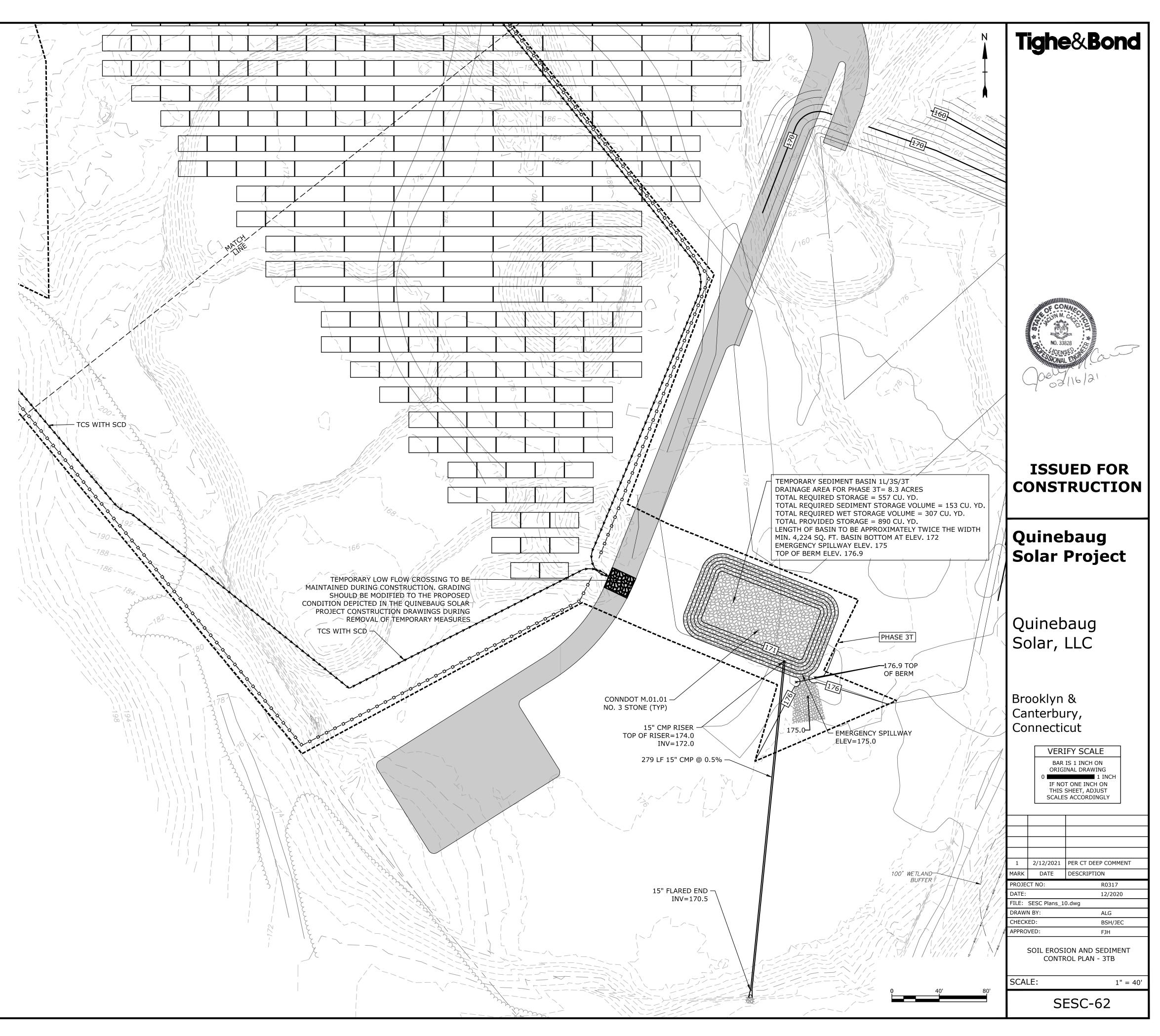
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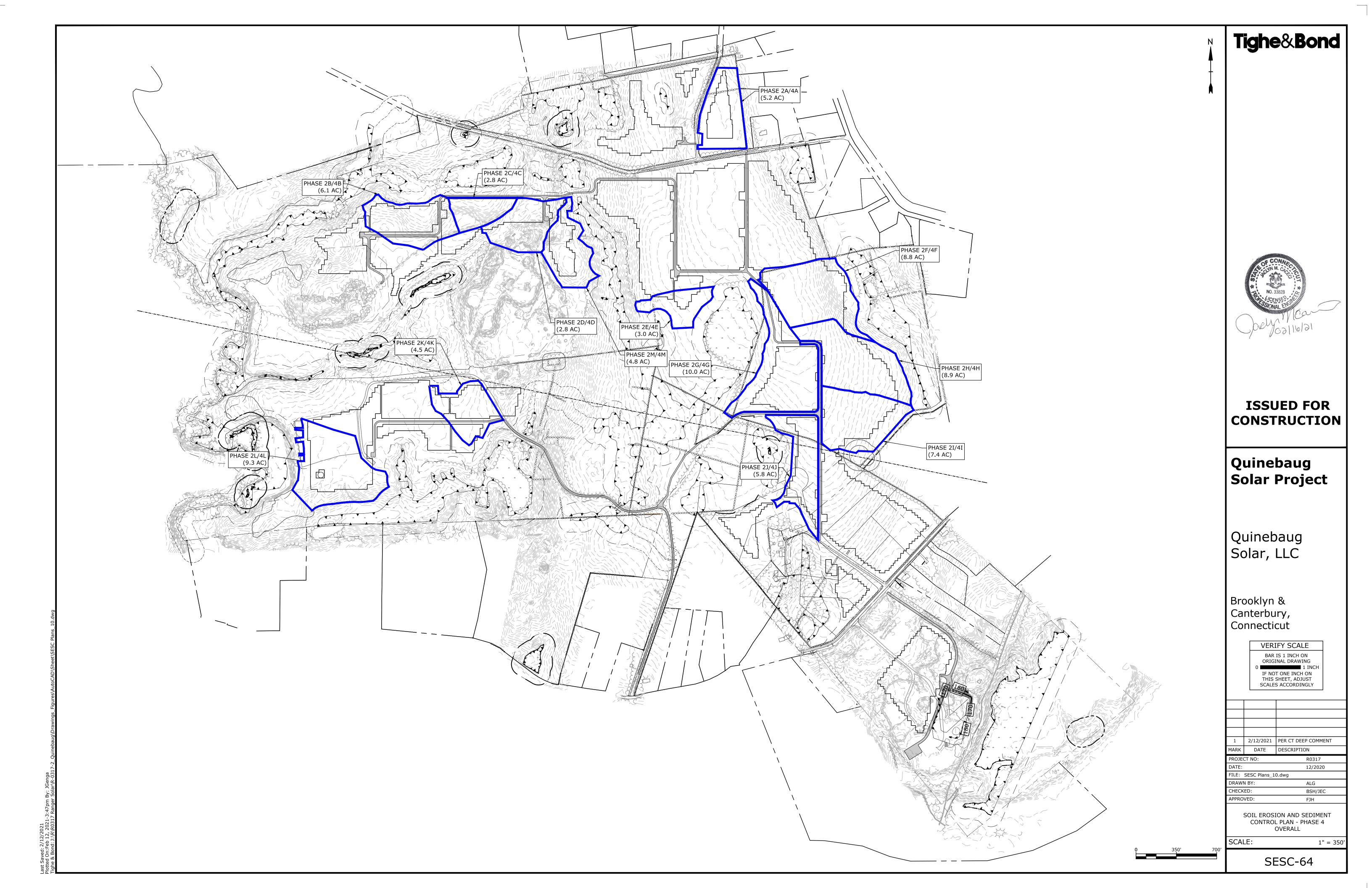
NOTE: SUBSTATION AREA CONTOURS EXPECTED TO BE COMPLETE AT START OF PROJECT CONSTRUCTION.

TEMPORARY SOIL STOCKPILE

S&E CODES



#### **GENERAL NOTES** Tighe&Bond EFFECTIVELY STABILIZE SOILS IN ONE PHASE 3 BEFORE COMMENCING GRADING AND CONSTRUCTION IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION. CONFORM TO THE CURRENT CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL FOR ANY SOIL DISTURBANCE TO THE EXISTING AGRICULTURAL FIELDS. REFER TO STORMWATER POLLUTION CONTROL PLAN FOR SEDIMENT TRAP/BASIN SIZING CALCULATIONS. . REFER TO CONSTRUCTION DRAWINGS FOR ALL DESIGN INFORMATION. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY REQUIRE MODIFICATION BY THE STORMWATER PROFESSIONAL DEPENDING ON ACTUAL FIELD CONDITIONS THROUGHOUT CONSTRUCTION DURATION. PERMANENT STORMWATER BASINS WHICH OVERLAP LOCATIONS OF TEMPORARY STORMWATER FEATURES USED DURING CONSTRUCTION TO MANAGE STORMWATER SHALL BE EXCAVATED TO A SUITABLE DEPTH TO REMOVE ACCUMULATED SEDIMENT AND RESTORE INFILTRATION CHARACTERISTICS OF THE NATIVE SOIL AT THE END OF CONSTRUCTION, ONCE SITE STABILIZATION HAS BEEN ACHIEVED. PERMANENT STORMWATER BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN RUNOFF AND SHALL NOT BE DISTURBED BY VEHICLE TRAFFIC OR OTHER CONSTRUCTION ACTIVITIES. **CONSTRUCTION PHASE 3** 1. FLAG THE LIMITS OF CONSTRUCTION. 2. INSTALL PERIMETER CONTROLS TO ESTABLISH PHASE WORK AREA IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND SOIL EROSION AND SEDIMENT CONTROL PLAN. 3. PRIOR TO INSTALLING SURFACE WATER CONTROLS, SUCH AS TEMPORARY DIVERSION AND STONE CHECK DAMS, INSPECT EXISTING CONDITIONS TO ENSURE DISCHARGE LOCATIONS ARE STABLE. IF NOT STABLE, REVIEW DISCHARGE CONDITIONS WITH THE DESIGN ENGINEER AND IMPLEMENT ADDITIONAL STABILIZATION MEASURES PRIOR TO INSTALLING SURFACE WATER CONTROLS. CONSTRUCT TEMPORARY SEDIMENT TRAPS AND/OR BASINS, DIVERSION SWALES AND BERMS WITH NO. 33828 CHECK DAMS. 5. CLEAR AND GRUB EXISTING STUMPS AS NEEDED. INSTALL SOLAR INFRASTRUCTURE, INCLUDING RACKING, SOLAR MODULES, UTILITY CONNECTIONS, AND EQUIPMENT PADS. SOLAR ARRAY CONSTRUCTION WILL BEGIN WITH POSTS OR GROUND SCREWS BEING DRIVEN INTO THE GROUND; RACKING WILL THEN BE AFFIXED TO THE POSTS; AND MODULES WILL BE MOUNTED AND INSTALLED ON THE RACKS. STABILIZE SITE WITH SEED AND MULCH IN ALL DISTURBED AREAS. IF A MINIMUM 4" OF TOPSOIL IS NOT PRESENT, AMEND WITH LOAM BORROW FOR A MINIMUM 4" OF VEGETATIVE SUPPORT MATERIAL TO PROMOTE GRASS GROWTH. STABILIZE AREAS WITH A SLOPE OF 7% OR STEEPER WITH HYDROSEED WITH BONDED FIBER MATRIX OR HYDROSEED AND INSTALL EROSION CONTROL BLANKETS. MONITOR DISTURBED AREAS WEEKLY OR FOLLOWING RAIN EVENTS AND AMEND WITH ADDITIONAL SEEDING AS NEEDED UNTIL STABILIZATION IS ACHIEVED. **ISSUED FOR** 8. AFTER PHASE IS FULLY STABILIZED, REMOVE TEMPORARY STORMWATER CONTROLS. **CONSTRUCTION** 9. ONCE TEMPORARY MEASURES ARE REMOVED, INSTALL THE REMAINING RACKING AND COMPONENTS THAT ARE LOCATED WHERE THE TEMPORARY MEASURES WERE REMOVED. SESC NARRATIVE Quinebaug Solar Project THE PROPOSED PROJECT INCLUDES CLEARING AND STUMP REMOVAL, THE CONSTRUCTION OF A SOLAR ARRAY, FENCES, ACCESS ROADS, AND SITE LANDSCAPING. THE PROJECT SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN MULTIPLE PHASES TOTALING APPROXIMATELY 220ACRES OF DISTURBANCE. TREE CLEARING IS ANTICIPATED TO OCCUR PRIOR TO SITE CONSTRUCTION, DURING WINTER 2020/2021, PER NDDB RECOMMENDATIONS. PHASE 3U SOIL EROSION AND SEDIMENTATION CONTROL MEASURES CONFORM TO THE STANDARDS OUTLINED IN Quinebaug Solar, LLC THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP), "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION. SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER POLLUTION CONTROL PLAN. WETLAND BUFFER <u>LEGEND</u> STABILIZED-CONSTRUCTION PROPERTY LINE -EQUIPMENT PAD ENTRANCE EXISTING INTERMEDIATE CONTOURS Brooklyn & EXISTING INDEX CONTOURS SUBSTATION AREA CONTOURS Canterbury, GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER Connecticut STONE WALL 000000000000 WETLAND BUFFER SEDIMENT TRAP 3U WATERCOURSE BUFFER TOTAL REQUIRED STORAGE = 402 CU. YD. **VERIFY SCALE** DELINEATED WATERCOURSE PROVIDED WET STORAGE = 204 CU. YD. VERNAL POOL BAR IS 1 INCH ON PROVIDED DRY STORAGE = 307 CU. YD. DELINEATED WETLAND ORIGINAL DRAWING TOTAL PROVIDED STORAGE = 511 CU. YD. EXISTING LIMIT OF VEGETATION $\dots$ DEPTH OF WET STORAGE = 2 FEET IF NOT ONE INCH ON PROPOSED LIMIT OF VEGETATION DEPTH OF DRY STORAGE = 2 FEET THIS SHEET, ADJUST PHASE LIMIT LINE MIN. 1,643 SQ. FT. TRAP BOTTOM AT ELEV. 214 SCALES ACCORDINGLY WEIR CREST ELEV. 218 FUTURE LIMIT OF SOLAR ARRAY TOP OF BERM ELEV. 219 PERIMETER EROSION CONTROL TEMP. CONVEYANCE SWALE WITH SCD **>-->-->-->-->-->-->-->-->-->--**TEMPORARY SOIL STOCKPILE 1 2/12/2021 PER CT DEEP COMMENT MARK DATE DESCRIPTION S&E CODES SCD STONE CHECK DAM PROJECT NO: R0317 TCS TEMP. CONVEYANCE SWALE 12/2020 FILE: SESC Plans\_10.dwg DRAWN BY: –15'-WIDE ALG SPILLWAY HECKED: BSH/1FC PPROVED: FJH -219.0 TOP OF BERM SOIL EROSION AND SEDIMENT CONTROL PLAN - 3U \_\_DELINEATED WETLAND -SCALE: 1" = 40' BOUNDARY NOTE: PHASE 3U MUST BE STABILIZED AT COMMENCEMENT OF SESC-63 CONSTRUCTION IN PHASE 3Q.



#### **GENERAL NOTES** Tighe&Bond EFFECTIVELY STABILIZE SOILS IN ONE PHASE 4 BEFORE COMMENCING GRADING AND CONSTRUCTION IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION. CONFORM TO THE CURRENT CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL FOR ANY 15" FLARED END SOIL DISTURBANCE TO THE EXISTING AGRICULTURAL FIELDS. INV=278.0 . REFER TO STORMWATER POLLUTION CONTROL PLAN FOR SEDIMENT TRAP/BASIN SIZING - 56 LF 15" CMP @ 1.8% 283.0~ REFER TO CONSTRUCTION DRAWINGS FOR ALL DESIGN INFORMATION. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY REQUIRE MODIFICATION BY THE STORMWATER PROFESSIONAL DEPENDING ON ACTUAL FIELD CONDITIONS THROUGHOUT 284.4 TOP OF BERM-CONSTRUCTION DURATION. → 15" CMP RISER 5. PERMANENT STORMWATER BASINS WHICH OVERLAP LOCATIONS OF TEMPORARY STORMWATER TOP OF RISER=281.0 FEATURES USED DURING CONSTRUCTION TO MANAGE STORMWATER SHALL BE EXCAVATED TO A INV=279.0 SUITABLE DEPTH TO REMOVE ACCUMULATED SEDIMENT AND RESTORE INFILTRATION CHARACTERISTICS OF THE NATIVE SOIL AT THE END OF CONSTRUCTION, ONCE SITE STABILIZATION HAS BEEN ACHIEVED. PERMANENT STORMWATER BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN RUNOFF AND SHALL NOT BE DISTURBED BY VEHICLE TRAFFIC OR OTHER CONSTRUCTION ACTIVITIES. TEMPORARY PLYWOOD BAFFLE = EMERGENCY SPILLWAY **CONSTRUCTION PHASE 4** ELEV=283.0 INSPECT AND INSTALL PERIMETER CONTROLS ESTABLISHED IN PHASE 2 TO ENSURE PHASE WORK CONNDOT M.01.01 NO. 3 STONE (TYP) AREA IS IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND SOIL EROSION AND SEDIMENT INSPECT AND CONSTRUCT TEMPORARY SEDIMENT TRAPS AND/OR BASINS, DIVERSION SWALES AND BERMS WITH CHECK DAMS INSTALLED IN PHASE 2. INSTALL SOLAR INFRASTRUCTURE, INCLUDING RACKING, SOLAR MODULES, UTILITY CONNECTIONS, AND EQUIPMENT PADS. SOLAR ARRAY CONSTRUCTION WILL BEGIN WITH POSTS OR GROUND SCREWS BEING DRIVEN INTO THE GROUND; RACKING WILL THEN BE AFFIXED TO THE POSTS; AND MODULES WILL BE MOUNTED AND INSTALLED ON THE RACKS. TEMPORARY SEDIMENT BASIN 2A STABILIZE SITE WITH SEED AND MULCH IN ALL DISTURBED AREAS. IF A MINIMUM 4" OF TOPSOIL IS DRAINAGE AREA = 5.2 ACRES NOT PRESENT, AMEND WITH LOAM BORROW FOR A MINIMUM 4" OF VEGETATIVE SUPPORT MATERIAL TOTAL REQUIRED STORAGE = 385 CU. YD. TO PROMOTE GRASS GROWTH. STABILIZE AREAS WITH A SLOPE OF 7% OR STEEPER WITH TOTAL REQUIRED SEDIMENT STORAGE VOLUME = 96 CU. YD. HYDROSEED WITH BONDED FIBER MATRIX OR HYDROSEED AND INSTALL EROSION CONTROL TOTAL REQUIRED WET STORAGE VOLUME = 192 CU. YD. BLANKETS. MONITOR DISTURBED AREAS WEEKLY OR FOLLOWING RAIN EVENTS AND AMEND WITH TOTAL PROVIDED STORAGE = 671 CU. YD. ADDITIONAL SEEDING AS NEEDED UNTIL STABILIZATION IS ACHIEVED. LENGTH OF BASIN TO BE APPROXIMATELY TWICE THE WIDTH MIN. 3,044 SQ. FT. BASIN BOTTOM AT ELEV. 279 AFTER PHASE IS FULLY STABILIZED, REMOVE TEMPORARY STORMWATER CONTROLS. THE GROUND EMERGENCY SPILLWAY ELEV. 283 SURFACE IS CONSIDERED STABILIZED ONCE IT HAS REACHED 80% VEGETATIVE COVERAGE PER THE TOP OF BERM ELEV. 284.4 SESC MANUAL. ONCE TEMPORARY MEASURES ARE REMOVED, INSTALL THE REMAINING RACKING AND COMPONENTS THAT ARE LOCATED WHERE THE TEMPORARY MEASURES WERE REMOVED. **ISSUED FOR** SESC NARRATIVE CONSTRUCTION THE PROPOSED PROJECT INCLUDES CLEARING AND STUMP REMOVAL, THE CONSTRUCTION OF A SOLAR ARRAY, FENCES, ACCESS ROADS, AND SITE LANDSCAPING. THE PROJECT SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN MULTIPLE PHASES TOTALING APPROXIMATELY 220 ACRES OF DISTURBANCE. Quinebaug Solar Project TREE CLEARING IS ANTICIPATED TO OCCUR PRIOR TO SITE CONSTRUCTION, DURING WINTER 2020/2021, PER NDDB RECOMMENDATIONS. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES CONFORM TO THE STANDARDS OUTLINED IN THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP), "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER POLLUTION CONTROL PLAN. with the same of t Quinebaug Solar, LLC <u>LEGEND</u> PROPERTY LINE EXISTING INTERMEDIATE CONTOURS \_\_\_\_\_\_ EXISTING INDEX CONTOURS GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER STONE WALL WETLAND BUFFER Brooklyn & WATERCOURSE BUFFER DELINEATED WATERCOURSE Canterbury, VERNAL POOL TCS WITH SCD-DELINEATED WETLAND Connecticut EXISTING LIMIT OF VEGETATION ..... PROPOSED LIMIT OF VEGETATION mPHASE LIMIT LINE VERIFY SCALE FUTURE LIMIT OF SOLAR ARRAY BAR IS 1 INCH ON PERIMETER EROSION CONTROL -----ORIGINAL DRAWING TEMP. CONVEYANCE SWALE WITH SCD **>-->-->-->-->-->-->-->--**IF NOT ONE INCH ON THIS SHEET, ADJUST TEMPORARY SOIL STOCKPILE SCALES ACCORDINGLY S&E CODES SCD STONE CHECK DAM TCS TEMP. CONVEYANCE SWALE 1 2/12/2021 PER CT DEEP COMMENT \_\_\_\_\_ MARK DATE DESCRIPTION ROJECT NO: R0317 12/2020 FILE: SESC Plans\_10.dwg DRAWN BY ALG HECKED: BSH/1FC FJH SOIL EROSION AND SEDIMENT CONTROL PLAN - 4A SCALE: 1" = 40' SESC-65

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MIN. 2,407 SQ. FT. BASIN BOTTOM AT ELEV. 145

EMERGENCY SPILLWAY ELEV. 149

TOP OF BERM ELEV. 150.6

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SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER POLLUTION CONTROL PLAN.

| LEGEND                          |                 |
|---------------------------------|-----------------|
| PROPERTY LINE                   |                 |
| EXISTING INTERMEDIATE CONTOURS  |                 |
| EXISTING INDEX CONTOURS         |                 |
| GRAVEL ROAD/DRIVEWAY            |                 |
| VERNAL POOL BUFFER              |                 |
| STONE WALL                      | .000            |
| WETLAND BUFFER                  |                 |
| WATERCOURSE BUFFER              |                 |
| DELINEATED WATERCOURSE          |                 |
| VERNAL POOL                     |                 |
| DELINEATED WETLAND              |                 |
| EXISTING LIMIT OF VEGETATION    | .~~             |
| PROPOSED LIMIT OF VEGETATION    | $\sim$          |
| PHASE LIMIT LINE                |                 |
| FUTURE LIMIT OF SOLAR ARRAY     |                 |
| PERIMETER EROSION CONTROL       |                 |
| TEMP. CONVEYANCE SWALE WITH SCD | <b>&gt;&gt;</b> |
|                                 |                 |

TEMPORARY SOIL STOCKPILE

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S&E CODES SCD STONE CHECK DAM TCS TEMP. CONVEYANCE SWALE

Quinebaug Solar Project Quinebaug Solar, LLC Brooklyn & Canterbury, Connecticut VERIFY SCALE BAR IS 1 INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY 1 2/12/2021 PER CT DEEP COMMENT MARK DATE DESCRIPTION ROJECT NO: R0317 12/2020 FILE: SESC Plans\_10.dwg DRAWN BY ALG HECKED: BSH/1FC APPROVED: FJH SOIL EROSION AND SEDIMENT CONTROL PLAN - 4B SCALE: 1" = 40' SESC-66

**ISSUED FOR** 

**CONSTRUCTION** 

Tighe&Bond

WETLAND

☐ TEMPORARY MEASURES

BOUNDARY

- 1. EFFECTIVELY STABILIZE SOILS IN ONE PHASE 4 BEFORE COMMENCING GRADING AND CONSTRUCTION IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION.
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- 4. REFER TO CONSTRUCTION DRAWINGS FOR ALL DESIGN INFORMATION.
- 5. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY REQUIRE MODIFICATION BY THE STORMWATER PROFESSIONAL DEPENDING ON ACTUAL FIELD CONDITIONS THROUGHOUT CONSTRUCTION DURATION.
- 6. PERMANENT STORMWATER BASINS WHICH OVERLAP LOCATIONS OF TEMPORARY STORMWATER FEATURES USED DURING CONSTRUCTION TO MANAGE STORMWATER SHALL BE EXCAVATED TO A SUITABLE DEPTH TO REMOVE ACCUMULATED SEDIMENT AND RESTORE INFILTRATION CHARACTERISTICS OF THE NATIVE SOIL AT THE END OF CONSTRUCTION, ONCE SITE STABILIZATION HAS BEEN ACHIEVED. PERMANENT STORMWATER BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN RUNOFF AND SHALL NOT BE DISTURBED BY VEHICLE TRAFFIC OR OTHER CONSTRUCTION ACTIVITIES.

#### **CONSTRUCTION PHASE 4**

- INSPECT AND INSTALL PERIMETER CONTROLS ESTABLISHED IN PHASE 2 TO ENSURE PHASE WORK AREA IS IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND SOIL EROSION AND SEDIMENT CONTROL PLAN.
- 2. INSPECT AND CONSTRUCT TEMPORARY SEDIMENT TRAPS AND/OR BASINS, DIVERSION SWALES AND BERMS WITH CHECK DAMS INSTALLED IN PHASE 2.
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- I. STABILIZE SITE WITH SEED AND MULCH IN ALL DISTURBED AREAS. IF A MINIMUM 4" OF TOPSOIL IS NOT PRESENT, AMEND WITH LOAM BORROW FOR A MINIMUM 4" OF VEGETATIVE SUPPORT MATERIAL TO PROMOTE GRASS GROWTH. STABILIZE AREAS WITH A SLOPE OF 7% OR STEEPER WITH HYDROSEED WITH BONDED FIBER MATRIX OR HYDROSEED AND INSTALL EROSION CONTROL BLANKETS. MONITOR DISTURBED AREAS WEEKLY OR FOLLOWING RAIN EVENTS AND AMEND WITH ADDITIONAL SEEDING AS NEEDED UNTIL STABILIZATION IS ACHIEVED.
- 5. AFTER PHASE IS FULLY STABILIZED, REMOVE TEMPORARY STORMWATER CONTROLS. THE GROUND SURFACE IS CONSIDERED STABILIZED ONCE IT HAS REACHED 80% VEGETATIVE COVERAGE PER THE SESC MANUAL.
- 6. ONCE TEMPORARY MEASURES ARE REMOVED, INSTALL THE REMAINING RACKING AND COMPONENTS THAT ARE LOCATED WHERE THE TEMPORARY MEASURES WERE REMOVED.

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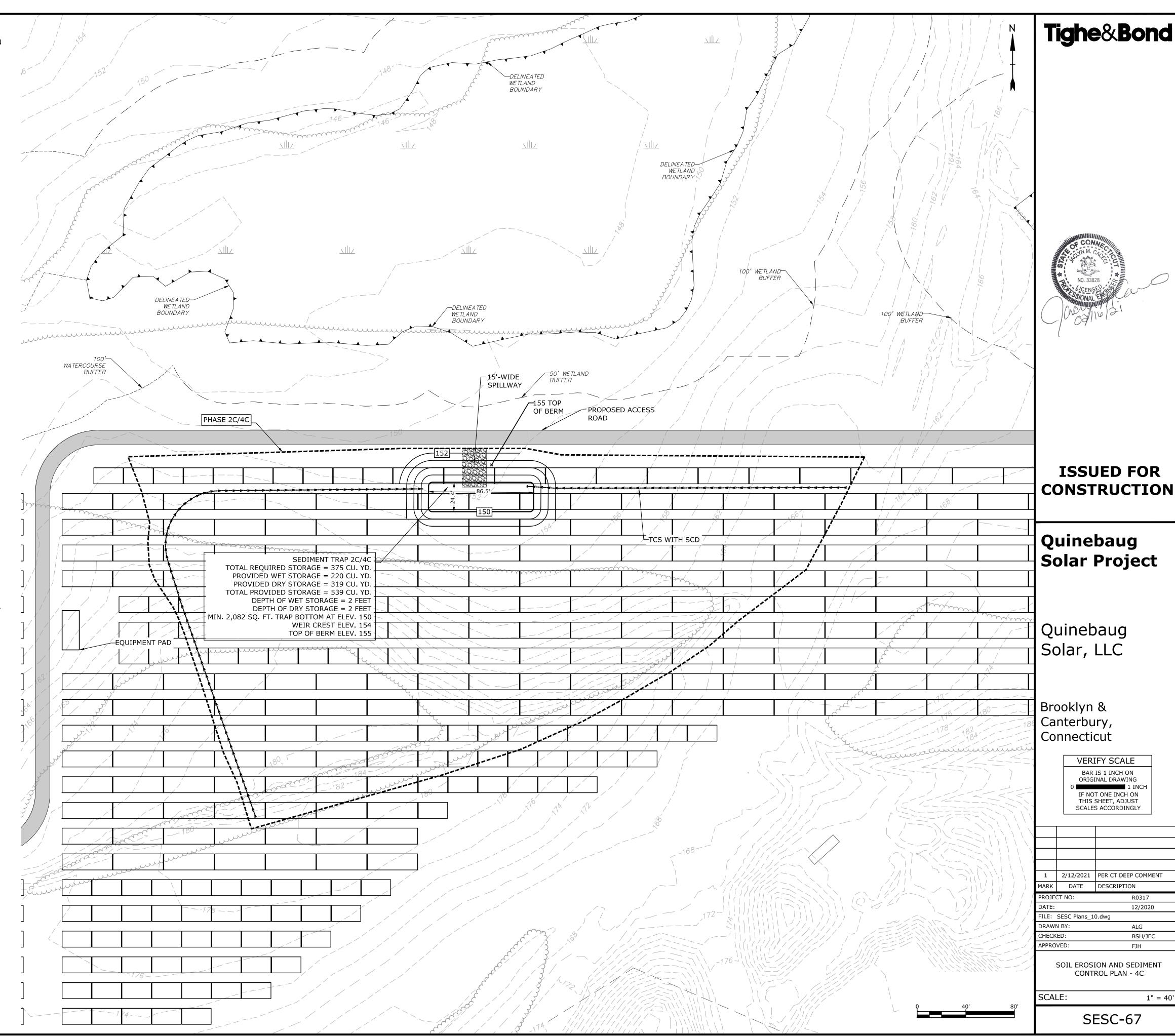
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S&E CODES
SCD STONE CHECK DAM
TCS TEMP. CONVEYANCE SWALE

TEMPORARY SOIL STOCKPILE

CULATIONS ARE PROVIDED IN APPENDIX C OF THE S



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SOIL DISTURBANCE TO THE EXISTING AGRICULTURAL FIELDS.

- 5. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY REQUIRE MODIFICATION BY THE STORMWATER PROFESSIONAL DEPENDING ON ACTUAL FIELD CONDITIONS THROUGHOUT CONSTRUCTION DURATION.
- 6. PERMANENT STORMWATER BASINS WHICH OVERLAP LOCATIONS OF TEMPORARY STORMWATER FEATURES USED DURING CONSTRUCTION TO MANAGE STORMWATER SHALL BE EXCAVATED TO A SUITABLE DEPTH TO REMOVE ACCUMULATED SEDIMENT AND RESTORE INFILTRATION CHARACTERISTICS OF THE NATIVE SOIL AT THE END OF CONSTRUCTION, ONCE SITE STABILIZATION HAS BEEN ACHIEVED. PERMANENT STORMWATER BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN RUNOFF AND SHALL NOT BE DISTURBED BY VEHICLE TRAFFIC OR OTHER CONSTRUCTION ACTIVITIES.

#### CONSTRUCTION PHASE 4

- 1. INSPECT AND INSTALL PERIMETER CONTROLS ESTABLISHED IN PHASE 2 TO ENSURE PHASE WORK AREA IS IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND SOIL EROSION AND SEDIMENT CONTROL BLAN
- 2. INSPECT AND CONSTRUCT TEMPORARY SEDIMENT TRAPS AND/OR BASINS, DIVERSION SWALES AND BERMS WITH CHECK DAMS INSTALLED IN PHASE 2.
- 3. INSTALL SOLAR INFRASTRUCTURE, INCLUDING RACKING, SOLAR MODULES, UTILITY CONNECTIONS, AND EQUIPMENT PADS. SOLAR ARRAY CONSTRUCTION WILL BEGIN WITH POSTS OR GROUND SCREWS BEING DRIVEN INTO THE GROUND; RACKING WILL THEN BE AFFIXED TO THE POSTS; AND MODULES WILL BE MOUNTED AND INSTALLED ON THE RACKS.
- 4. STABILIZE SITE WITH SEED AND MULCH IN ALL DISTURBED AREAS. IF A MINIMUM 4" OF TOPSOIL IS NOT PRESENT, AMEND WITH LOAM BORROW FOR A MINIMUM 4" OF VEGETATIVE SUPPORT MATERIAL TO PROMOTE GRASS GROWTH. STABILIZE AREAS WITH A SLOPE OF 7% OR STEEPER WITH HYDROSEED WITH BONDED FIBER MATRIX OR HYDROSEED AND INSTALL EROSION CONTROL BLANKETS. MONITOR DISTURBED AREAS WEEKLY OR FOLLOWING RAIN EVENTS AND AMEND WITH ADDITIONAL SEEDING AS NEEDED UNTIL STABILIZATION IS ACHIEVED.
- 5. AFTER PHASE IS FULLY STABILIZED, REMOVE TEMPORARY STORMWATER CONTROLS. THE GROUND SURFACE IS CONSIDERED STABILIZED ONCE IT HAS REACHED 80% VEGETATIVE COVERAGE PER THE SESC MANUAL.
- 6. ONCE TEMPORARY MEASURES ARE REMOVED, INSTALL THE REMAINING RACKING AND COMPONENTS THAT ARE LOCATED WHERE THE TEMPORARY MEASURES WERE REMOVED.

#### SESC NARRATIVE

THE PROPOSED PROJECT INCLUDES CLEARING AND STUMP REMOVAL, THE CONSTRUCTION OF A SOLAR ARRAY, FENCES, ACCESS ROADS, AND SITE LANDSCAPING.

THE PROJECT SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN MULTIPLE PHASES TOTALING APPROXIMATELY 220 ACRES OF DISTURBANCE.

TREE CLEARING IS ANTICIPATED TO OCCUR PRIOR TO SITE CONSTRUCTION, DURING WINTER 2020/2021, PER NDDB RECOMMENDATIONS.

SOIL EROSION AND SEDIMENTATION CONTROL MEASURES CONFORM TO THE STANDARDS OUTLINED IN THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP), "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION.

SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER POLLUTION CONTROL PLAN.

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## LEGEND

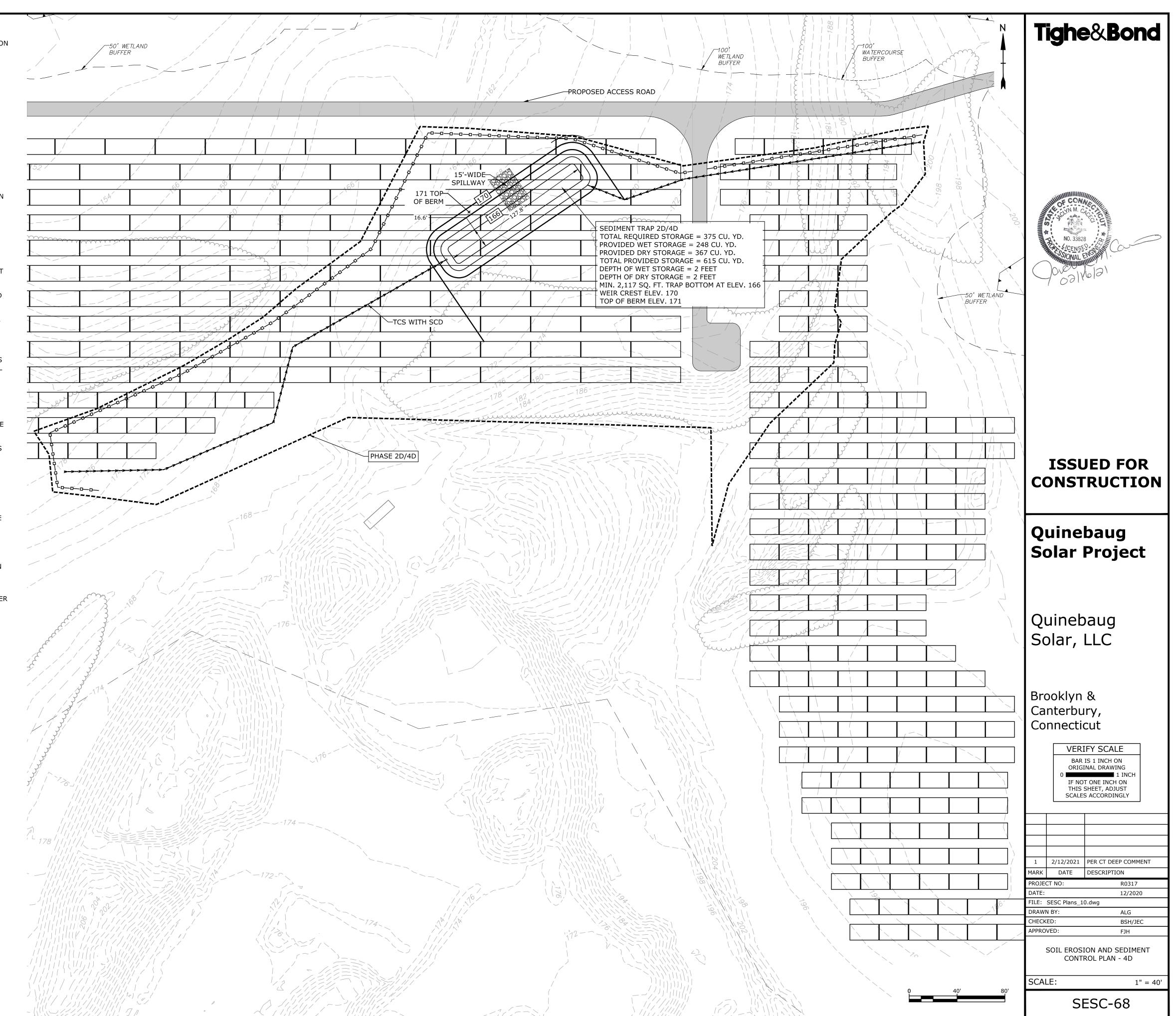
PROPERTY LINE EXISTING INTERMEDIATE CONTOURS EXISTING INDEX CONTOURS GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER STONE WALL WETLAND BUFFER WATERCOURSE BUFFER DELINEATED WATERCOURSE VERNAL POOL DELINEATED WETLAND EXISTING LIMIT OF VEGETATION PROPOSED LIMIT OF VEGETATION PHASE LIMIT LINE FUTURE LIMIT OF SOLAR ARRAY PERIMETER EROSION CONTROL TEMP. CONVEYANCE SWALE WITH SCD

S&E CODES

SCD STONE CHECK DAM

TCS TEMP. CONVEYANCE SWALE

TEMPORARY SOIL STOCKPILE



Plotted On: Feb 12, 2021-3:52pm By: JGenga

#### **GENERAL NOTES** Tighe&Bond EFFECTIVELY STABILIZE SOILS IN ONE PHASE 4 BEFORE COMMENCING GRADING AND CONSTRUCTION IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION. . CONFORM TO THE CURRENT CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL FOR ANY SOIL DISTURBANCE TO THE EXISTING AGRICULTURAL FIELDS. B. REFER TO STORMWATER POLLUTION CONTROL PLAN FOR SEDIMENT TRAP/BASIN SIZING CALCULATIONS. 4. REFER TO CONSTRUCTION DRAWINGS FOR ALL DESIGN INFORMATION. 5. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY REQUIRE MODIFICATION BY THE STORMWATER PROFESSIONAL DEPENDING ON ACTUAL FIELD CONDITIONS THROUGHOUT CONSTRUCTION DURATION. PROPOSED ACCESS ROAD 6. PERMANENT STORMWATER BASINS WHICH OVERLAP LOCATIONS OF TEMPORARY STORMWATER FEATURES USED DURING CONSTRUCTION TO MANAGE STORMWATER SHALL BE EXCAVATED TO A SUITABLE DEPTH TO REMOVE ACCUMULATED SEDIMENT AND RESTORE INFILTRATION CHARACTERISTICS OF THE NATIVE SOIL AT THE END OF CONSTRUCTION, ONCE SITE STABILIZATION HAS BEEN ACHIEVED. PERMANENT STORMWATER BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN RUNOFF AND SHALL NOT BE DISTURBED BY VEHICLE TRAFFIC OR OTHER CONSTRUCTION ACTIVITIES. **CONSTRUCTION PHASE 4** INSPECT AND INSTALL PERIMETER CONTROLS ESTABLISHED IN PHASE 2 TO ENSURE PHASE WORK AREA IS IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND SOIL EROSION AND SEDIMENT PHASE 2E 2. INSPECT AND CONSTRUCT TEMPORARY SEDIMENT TRAPS AND/OR BASINS, DIVERSION SWALES AND BERMS WITH CHECK DAMS INSTALLED IN PHASE 2. . INSTALL SOLAR INFRASTRUCTURE, INCLUDING RACKING, SOLAR MODULES, UTILITY CONNECTIONS, AND EQUIPMENT PADS. SOLAR ARRAY CONSTRUCTION WILL BEGIN WITH POSTS OR GROUND SCREWS BEING DRIVEN INTO THE GROUND; RACKING WILL THEN BE AFFIXED TO THE POSTS; AND MODULES WILL BE MOUNTED AND INSTALLED ON THE RACKS. I. STABILIZE SITE WITH SEED AND MULCH IN ALL DISTURBED AREAS. IF A MINIMUM 4" OF TOPSOIL IS NOT PRESENT, AMEND WITH LOAM BORROW FOR A MINIMUM 4" OF VEGETATIVE SUPPORT MATERIAL TO PROMOTE GRASS GROWTH. STABILIZE AREAS WITH A SLOPE OF 7% OR STEEPER WITH HYDROSEED WITH BONDED FIBER MATRIX OR HYDROSEED AND INSTALL EROSION CONTROL BLANKETS. MONITOR DISTURBED AREAS WEEKLY OR FOLLOWING RAIN EVENTS AND AMEND WITH ADDITIONAL SEEDING AS NEEDED UNTIL STABILIZATION IS ACHIEVED. AFTER PHASE IS FULLY STABILIZED, REMOVE TEMPORARY STORMWATER CONTROLS. THE GROUND SURFACE IS CONSIDERED STABILIZED ONCE IT HAS REACHED 80% VEGETATIVE COVERAGE PER THE SEDIMENT TRAP 2E/4E SESC MANUAL. TOTAL REQUIRED STORAGE = 402 CU. YD. PROVIDED WET STORAGE = 215 CU. YD. ONCE TEMPORARY MEASURES ARE REMOVED, INSTALL THE REMAINING RACKING AND COMPONENTS PROVIDED DRY STORAGE = 311 CU. YD. THAT ARE LOCATED WHERE THE TEMPORARY MEASURES WERE REMOVED. TOTAL PROVIDED STORAGE = 526 CU. YD. **ISSUED FOR** DEPTH OF WET STORAGE = 2 FEET SESC NARRATIVE DEPTH OF DRY STORAGE = 2 FEET CONSTRUCTION MIN. 2,078 SQ. FT. TRAP BOTTOM AT ELEV. 258 THE PROPOSED PROJECT INCLUDES CLEARING AND STUMP REMOVAL, THE CONSTRUCTION OF A SOLAR WEIR CREST ELEV. 262 ARRAY, FENCES, ACCESS ROADS, AND SITE LANDSCAPING. TOP OF BERM ELEV. 263 DELINEATED-WETLAND THE PROJECT SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN MULTIPLE BOUNDARY PHASES TOTALING APPROXIMATELY 220 ACRES OF DISTURBANCE. Quinebaug Solar Project TREE CLEARING IS ANTICIPATED TO OCCUR PRIOR TO SITE CONSTRUCTION, DURING WINTER '00' WETLAND 2020/2021, PER NDDB RECOMMENDATIONS. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES CONFORM TO THE STANDARDS OUTLINED IN TOP OF THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP), BERM \_\_100' WETLAND "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION -100' WETLAND SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER BUFFER POLLUTION CONTROL PLAN. TCS WITH SCD-Quinebaug Solar, LLC —DELINEA TED <u>LEGEND</u> WETLAND BOUNDARY PROPERTY LINE EXISTING INTERMEDIATE CONTOURS \_\_\_\_\_\_ EXISTING INDEX CONTOURS —DELINEA TED GRAVEL ROAD/DRIVEWAY WETLAND VERNAL POOL BUFFER BOUNDARY STONE WALL WETLAND BUFFER Brooklyn & WATERCOURSE BUFFER DELINEATED WATERCOURSE Canterbury, \_\_\_\_\_ VERNAL POOL DELINEATED WETLAND Connecticut EXISTING LIMIT OF VEGETATION PROPOSED LIMIT OF VEGETATION PHASE LIMIT LINE VERIFY SCALE FUTURE LIMIT OF SOLAR ARRAY BAR IS 1 INCH ON PERIMETER EROSION CONTROL —o—o—o—o—o—o— ORIGINAL DRAWING TEMP. CONVEYANCE SWALE WITH SCD **>-->-->-->-->-->-->-->-->-->--**IF NOT ONE INCH ON THIS SHEET, ADJUST TEMPORARY SOIL STOCKPILE SCALES ACCORDINGLY DELINEATED-WETLAND S&E CODES BOUNDARY SCD STONE CHECK DAM TCS TEMP. CONVEYANCE SWALE —DELINEATED 1 2/12/2021 PER CT DEEP COMMENT WETLAND BOUNDARY MARK DATE DESCRIPTION PROJECT NO: R0317 12/2020 FILE: SESC Plans\_10.dwg DRAWN BY: ALG 100' WETLAND-CHECKED: BSH/1FC PPROVED: FJH -100' WETLAND BUFFER SOIL EROSION AND SEDIMENT CONTROL PLAN - 4E SCALE: 1" = 40' SESC-69

#### **GENERAL NOTES** Tighe&Bond EFFECTIVELY STABILIZE SOILS IN ONE PHASE 4 BEFORE COMMENCING GRADING AND CONSTRUCTION IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION. 2. CONFORM TO THE CURRENT CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL FOR ANY SOIL DISTURBANCE TO THE EXISTING AGRICULTURAL FIELDS. BUFFER 3. REFER TO STORMWATER POLLUTION CONTROL PLAN FOR SEDIMENT TRAP/BASIN SIZING CALCULATIONS. 4. REFER TO CONSTRUCTION DRAWINGS FOR ALL DESIGN INFORMATION. 5. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY REQUIRE MODIFICATION BY THE STORMWATER PROFESSIONAL DEPENDING ON ACTUAL FIELD CONDITIONS THROUGHOUT CONSTRUCTION DURATION. 6. PERMANENT STORMWATER BASINS WHICH OVERLAP LOCATIONS OF TEMPORARY STORMWATER FEATURES USED DURING CONSTRUCTION TO MANAGE STORMWATER SHALL BE EXCAVATED TO A SUITABLE DEPTH TO REMOVE ACCUMULATED SEDIMENT AND RESTORE INFILTRATION CHARACTERISTICS OF THE NATIVE SOIL AT THE END OF CONSTRUCTION, ONCE SITE STABILIZATION HAS BEEN ACHIEVED. PERMANENT STORMWATER BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN RUNOFF AND SHALL NOT BE DISTURBED BY VEHICLE TRAFFIC OR OTHER CONSTRUCTION ACTIVITIES. **CONSTRUCTION PHASE 4** . INSPECT AND INSTALL PERIMETER CONTROLS ESTABLISHED IN PHASE 2 TO ENSURE PHASE WORK AREA IS IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND SOIL EROSION AND SEDIMENT 🖳 EQUIPMENT PAD 🕂 2. INSPECT AND CONSTRUCT TEMPORARY SEDIMENT TRAPS AND/OR BASINS, DIVERSION SWALES AND BERMS WITH CHECK DAMS INSTALLED IN PHASE 2. 3. INSTALL SOLAR INFRASTRUCTURE, INCLUDING RACKING, SOLAR MODULES, UTILITY CONNECTIONS, AND EQUIPMENT PADS. SOLAR ARRAY CONSTRUCTION WILL BEGIN WITH POSTS OR GROUND SCREWS BEING DRIVEN INTO THE GROUND; RACKING WILL THEN BE AFFIXED TO THE POSTS; AND MODULES WILL BE MOUNTED AND INSTALLED ON THE RACKS. 4. STABILIZE SITE WITH SEED AND MULCH IN ALL DISTURBED AREAS. IF A MINIMUM 4" OF TOPSOIL IS NOT PRESENT, AMEND WITH LOAM BORROW FOR A MINIMUM 4" OF VEGETATIVE SUPPORT MATERIAL TO PROMOTE GRASS GROWTH. STABILIZE AREAS WITH A SLOPE OF 7% OR STEEPER WITH 255.0 TOP OF HYDROSEED WITH BONDED FIBER MATRIX OR HYDROSEED AND INSTALL EROSION CONTROL BERM BLANKETS. MONITOR DISTURBED AREAS WEEKLY OR FOLLOWING RAIN EVENTS AND AMEND WITH ADDITIONAL SEEDING AS NEEDED UNTIL STABILIZATION IS ACHIEVED. AFTER PHASE IS FULLY STABILIZED, REMOVE TEMPORARY STORMWATER CONTROLS. THE GROUND SURFACE IS CONSIDERED STABILIZED ONCE IT HAS REACHED 80% VEGETATIVE COVERAGE PER THE SESC MANUAL. ONCE TEMPORARY MEASURES ARE REMOVED, INSTALL THE REMAINING RACKING AND COMPONENTS THAT ARE LOCATED WHERE THE TEMPORARY MEASURES WERE REMOVED. **ISSUED FOR** SESC NARRATIVE CONSTRUCTION THE PROPOSED PROJECT INCLUDES CLEARING AND STUMP REMOVAL, THE CONSTRUCTION OF A SOLAR ARRAY, FENCES, ACCESS ROADS, AND SITE LANDSCAPING. THE PROJECT SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN MULTIPLE PHASES TOTALING APPROXIMATELY 220 ACRES OF DISTURBANCE. Quinebaug Solar Project TREE CLEARING IS ANTICIPATED TO OCCUR PRIOR TO SITE CONSTRUCTION, DURING WINTER 2020/2021, PER NDDB RECOMMENDATIONS. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES CONFORM TO THE STANDARDS OUTLINED IN THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP), "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION. TEMPORARY SEDIMENT BASIN 2F/4F EQUIPMENT PAD DRAINAGE AREA = 8.8 ACRES SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER TOTAL REQUIRED STORAGE = 585 CU. YD. POLLUTION CONTROL PLAN. TOTAL REQUIRED SEDIMENT STORAGE VOLUME = 163 CU. YD. . Quinebaug Solar, LLC TOTAL REQUIRED WET STORAGE VOLUME = 325 CU. YD. TOTAL PROVIDED STORAGE = 1,602 CU. YD. LENGTH OF BASIN TO BE APPROXIMATELY TWICE THE WIDTH <u>LEGEND</u> MIN. 5,987 SQ. FT. BASIN BOTTOM AT ELEV. 248 MATCH LINE MATCH LINE PROPERTY LINE \_\_\_\_\_\_\_\_\_\_ EMERGENCY SPILLWAY ELEV. 253 EXISTING INTERMEDIATE CONTOURS \_\_\_\_\_\_ TOP OF BERM ELEV. 255 EXISTING INDEX CONTOURS GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER \_ \_ \_ \_ \_ \_ \_ TEMPORARY PLYWOOD BAFFLE STONE WALL .000000000000 \_ \_ \_ \_ \_ \_ \_ \_ WETLAND BUFFER Brooklyn & WATERCOURSE BUFFER \_\_\_\_\_ DELINEATED WATERCOURSE Canterbury, VERNAL POOL \_\_\_\_\_ DELINEATED WETLAND \_\_\_\_\_ Connecticut EXISTING LIMIT OF VEGETATION $\sim$ —PROPOSED ACCESS ROAD PROPOSED LIMIT OF VEGETATION PHASE LIMIT LINE **VERIFY SCALE** \_\_\_\_\_\_\_ FUTURE LIMIT OF SOLAR ARRAY \_\_\_\_\_\_ BAR IS 1 INCH ON PERIMETER EROSION CONTROL **------**ORIGINAL DRAWING TEMP. CONVEYANCE SWALE WITH SCD IF NOT ONE INCH ON THIS SHEET, ADJUST TEMPORARY SOIL STOCKPILE SCALES ACCORDINGLY S&E CODES SCD STONE CHECK DAM TCS TEMP. CONVEYANCE SWALE 100' WETLAND BUFFER 1 2/12/2021 PER CT DEEP COMMENT DATE DESCRIPTION PROJECT NO: R0317 12/2020 FILE: SESC Plans\_10.dwg DRAWN BY ALG HECKED: BSH/1FC PPROVED: FJH SOIL EROSION AND SEDIMENT CONTROL PLAN - 4FA SCALE: 1" = 40' SESC-70

#### **GENERAL NOTES** Tighe&Bond —DELINEA TED EFFECTIVELY STABILIZE SOILS IN ONE PHASE 4 BEFORE COMMENCING GRADING AND CONSTRUCTION WETLAND BOUNDARY IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION. -100' WETLAND 2. CONFORM TO THE CURRENT CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL FOR ANY BUFFER SOIL DISTURBANCE TO THE EXISTING AGRICULTURAL FIELDS. 3. REFER TO STORMWATER POLLUTION CONTROL PLAN FOR SEDIMENT TRAP/BASIN SIZING CALCULATIONS. 4. REFER TO CONSTRUCTION DRAWINGS FOR ALL DESIGN INFORMATION. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY REQUIRE MODIFICATION BY THE STORMWATER PROFESSIONAL DEPENDING ON ACTUAL FIELD CONDITIONS THROUGHOUT CONSTRUCTION DURATION. 6. 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SOLAR ARRAY CONSTRUCTION WILL BEGIN WITH POSTS OR GROUND SCREWS BEING DRIVEN INTO THE GROUND; RACKING WILL THEN BE AFFIXED TO THE POSTS; AND MODULES WILL BE MOUNTED AND INSTALLED ON THE RACKS. 1. STABILIZE SITE WITH SEED AND MULCH IN ALL DISTURBED AREAS. IF A MINIMUM 4" OF TOPSOIL IS 255.0 NOT PRESENT, AMEND WITH LOAM BORROW FOR A MINIMUM 4" OF VEGETATIVE SUPPORT MATERIAL TOP OF -TO PROMOTE GRASS GROWTH. STABILIZE AREAS WITH A SLOPE OF 7% OR STEEPER WITH BERM HYDROSEED WITH BONDED FIBER MATRIX OR HYDROSEED AND INSTALL EROSION CONTROL BLANKETS. MONITOR DISTURBED AREAS WEEKLY OR FOLLOWING RAIN EVENTS AND AMEND WITH ADDITIONAL SEEDING AS NEEDED UNTIL STABILIZATION IS ACHIEVED. **EMERGENCY SPILLWAY** ELEV=253.0 AFTER PHASE IS FULLY STABILIZED, REMOVE TEMPORARY STORMWATER CONTROLS. THE GROUND SURFACE IS CONSIDERED STABILIZED ONCE IT HAS REACHED 80% VEGETATIVE COVERAGE PER THE SESC MANUAL. 5. ONCE TEMPORARY MEASURES ARE REMOVED, INSTALL THE REMAINING RACKING AND COMPONENTS THAT ARE LOCATED WHERE THE TEMPORARY MEASURES WERE REMOVED. **ISSUED FOR** SESC NARRATIVE CONSTRUCTION THE PROPOSED PROJECT INCLUDES CLEARING AND STUMP REMOVAL, THE CONSTRUCTION OF A SOLAR CONNDOT M.01.01 NO. 3 STONE (TYP) 💳 TOP OF RISER=252.0 ARRAY, FENCES, ACCESS ROADS, AND SITE LANDSCAPING. INV=250.0 THE PROJECT SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN MULTIPLE PHASES TOTALING APPROXIMATELY 220 ACRES OF DISTURBANCE. Quinebaug Solar Project DELINEA TED-WETLAND TREE CLEARING IS ANTICIPATED TO OCCUR PRIOR TO SITE CONSTRUCTION, DURING WINTER BOUNDARY 2020/2021, PER NDDB RECOMMENDATIONS. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES CONFORM TO THE STANDARDS OUTLINED IN TEMPORARY SEDIMENT BASIN 2F/4F BUFFER THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP), DRAINAGE AREA = 8.8 ACRES "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION TOTAL REQUIRED STORAGE = 585 CU. YD. INV=248.0 TOTAL REQUIRED SEDIMENT STORAGE VOLUME = 163 CU. YD. SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER TOTAL REQUIRED WET STORAGE VOLUME = 325 CU. YD. TOTAL PROVIDED STORAGE = 1,602 CU. YD. LENGTH OF BASIN TO BE APPROXIMATELY TWICE THE WIDTH Quinebaug Solar, LLC MIN. 5,987 SQ. FT. 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CONVEYANCE SWALE BUFFER 1 2/12/2021 PER CT DEEP COMMENT MARK DATE DESCRIPTION 100' WETLAND PROJECT NO: R0317 12/2020 DELINEATED-FILE: SESC Plans\_10.dwg WETLAND DRAWN BY ALG BOUNDARY CHECKED: BSH/1FC PPROVED: FJH SOIL EROSION AND SEDIMENT CONTROL PLAN - 4FB SCALE: 1" = 40' SESC-71

#### Tighe&Bond **GENERAL NOTES** 1. EFFECTIVELY STABILIZE SOILS IN ONE PHASE 4 BEFORE COMMENCING GRADING AND CONSTRUCTION IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION. 2. CONFORM TO THE CURRENT CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL FOR ANY SOIL DISTURBANCE TO THE EXISTING AGRICULTURAL FIELDS. 3. REFER TO STORMWATER POLLUTION CONTROL PLAN FOR SEDIMENT TRAP/BASIN SIZING CALCULATIONS. 4. REFER TO CONSTRUCTION DRAWINGS FOR ALL DESIGN INFORMATION. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY REQUIRE MODIFICATION BY THE STORMWATER PROFESSIONAL DEPENDING ON ACTUAL FIELD CONDITIONS THROUGHOUT CONSTRUCTION DURATION. 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ONCE TEMPORARY MEASURES ARE REMOVED, INSTALL THE REMAINING RACKING AND COMPONENTS THAT ARE LOCATED WHERE THE TEMPORARY MEASURES WERE REMOVED. **ISSUED FOR** SESC NARRATIVE CONSTRUCTION THE PROPOSED PROJECT INCLUDES CLEARING AND STUMP REMOVAL, THE CONSTRUCTION OF A SOLAR ARRAY, FENCES, ACCESS ROADS, AND SITE LANDSCAPING. THE PROJECT SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN MULTIPLE 100' WETLAND PHASES TOTALING APPROXIMATELY 220 ACRES OF DISTURBANCE. Quinebaug Solar Project TREE CLEARING IS ANTICIPATED TO OCCUR PRIOR TO SITE CONSTRUCTION, DURING WINTER · EQUIPMENT PAD-2020/2021, PER NDDB RECOMMENDATIONS. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES CONFORM TO THE STANDARDS OUTLINED IN THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP), "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION. SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER POLLUTION CONTROL PLAN. TCS WITH SCD-PHASE 2G/4G PROPERTY LINE EXISTING INTERMEDIATE CONTOURS EXISTING INDEX CONTOURS GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER TEMPORARY PLYWOOD BAFFLE STONE WALL WETLAND BUFFER Brooklyn & CONNDOT M.01.01 NO. 3 STONE (TYP) WATERCOURSE BUFFER -DELINEATED \_\_\_\_\_\_\_ DELINEATED WATERCOURSE Canterbury, WETLAND! VERNAL POOL \_\_\_\_\_ BOUNDARY DELINEATED WETLAND \_\_\_\_\_ Connecticut TEMPORARY SEDIMENT BASIN 2G/4G $\perp$ DRAINAGE AREA = 10.0 ACRES EXISTING LIMIT OF VEGETATION $\mathcal{M}$ TOTAL REQUIRED STORAGE = 651 CU. YD. PROPOSED LIMIT OF VEGETATION TOTAL REQUIRED SEDIMENT STORAGE VOLUME = 185 CU. YD PHASE LIMIT LINE VERIFY SCALE TOTAL REQUIRED WET STORAGE VOLUME = 370 CU. YD. FUTURE LIMIT OF SOLAR ARRAY BAR IS 1 INCH ON TOTAL PROVIDED STORAGE = 1,295 CU. YD. TOP OF PERIMETER EROSION CONTROL ORIGINAL DRAWING —0—0—0—0—0—0— $\downarrow$ LENGTH OF BASIN TO BE APPROXIMATELY TWICE THE WIDTH RISER=267.5 TEMP. CONVEYANCE SWALE WITH SCD **>-->-->-->-->-->-->-->-->-->-->--**MIN. 3,892 SQ. FT. BASIN BOTTOM AT ELEV. 264 INV=265.5 IF NOT ONE INCH ON EMERGENCY SPILLWAY ELEV. 269 THIS SHEET, ADJUST TEMPORARY SOIL STOCKPILE $\perp$ TOP OF BERM ELEV. 270.2 -DELINEATED SCALES ACCORDINGLY WETLAND BOUNDARY/ SCD STONE CHECK DAM TCS TEMP. CONVEYANCE SWALE 270.2 TOP OF BERM-1 2/12/2021 PER CT DEEP COMMENT MARK DATE DESCRIPTION EMERGENCY SPILLWAY ROJECT NO: R0317 ELEV=268.0 12/2020 100' WETLAND FILE: SESC Plans\_10.dwg BUFFER DRAWN BY ALG CHECKED: BSH/1FC PPROVED: FJH 334 LF 15" CMP @ 0.45% PROPOSED ACCESS ROAD -100' WETLAND SOIL EROSION AND SEDIMENT CONTROL PLAN - 4GA -VERNAL POOL DIRECTIONAL BUFFER SCALE: 1" = 40' SESC-72

#### **GENERAL NOTES** Tighe&Bond 1. EFFECTIVELY STABILIZE SOILS IN ONE PHASE 4 BEFORE COMMENCING GRADING AND CONSTRUCTION IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED -100' WETLAND BUFFER TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION. 2. CONFORM TO THE CURRENT CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL FOR ANY SOIL DISTURBANCE TO THE EXISTING AGRICULTURAL FIELDS. 3. REFER TO STORMWATER POLLUTION CONTROL PLAN FOR SEDIMENT TRAP/BASIN SIZING WETLAND CALCULATIONS. BOUNDARY 4. REFER TO CONSTRUCTION DRAWINGS FOR ALL DESIGN INFORMATION. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY REQUIRE MODIFICATION BY THE STORMWATER PROFESSIONAL DEPENDING ON ACTUAL FIELD CONDITIONS THROUGHOUT CONSTRUCTION DURATION. PERMANENT STORMWATER BASINS WHICH OVERLAP LOCATIONS OF TEMPORARY STORMWATER FEATURES USED DURING CONSTRUCTION TO MANAGE STORMWATER SHALL BE EXCAVATED TO A SUITABLE DEPTH TO REMOVE ACCUMULATED SEDIMENT AND RESTORE INFILTRATION CHARACTERISTICS OF THE NATIVE SOIL AT THE END OF CONSTRUCTION, ONCE SITE STABILIZATION HAS BEEN ACHIEVED. PERMANENT STORMWATER BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN RUNOFF AND SHALL NOT BE DISTURBED BY VEHICLE TRAFFIC OR OTHER CONSTRUCTION ACTIVITIES. **CONSTRUCTION PHASE 4** 1. INSPECT AND INSTALL PERIMETER CONTROLS ESTABLISHED IN PHASE 2 TO ENSURE PHASE WORK AREA IS IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND SOIL EROSION AND SEDIMENT CONTROL PLAN. PHASE 2G/4G INSPECT AND CONSTRUCT TEMPORARY SEDIMENT TRAPS AND/OR BASINS, DIVERSION SWALES AND BERMS WITH CHECK DAMS INSTALLED IN PHASE 2. INSTALL SOLAR INFRASTRUCTURE, INCLUDING RACKING, SOLAR MODULES, UTILITY CONNECTIONS, AND EQUIPMENT PADS. SOLAR ARRAY CONSTRUCTION WILL BEGIN WITH POSTS OR GROUND SCREWS BEING DRIVEN INTO THE GROUND; RACKING WILL THEN BE AFFIXED TO THE POSTS; AND MODULES WILL BE MOUNTED AND INSTALLED ON THE RACKS. — EQUIPMENT PAD STABILIZE SITE WITH SEED AND MULCH IN ALL DISTURBED AREAS. IF A MINIMUM 4" OF TOPSOIL IS NOT PRESENT, AMEND WITH LOAM BORROW FOR A MINIMUM 4" OF VEGETATIVE SUPPORT MATERIAL TO PROMOTE GRASS GROWTH. STABILIZE AREAS WITH A SLOPE OF 7% OR STEEPER WITH HYDROSEED WITH BONDED FIBER MATRIX OR HYDROSEED AND INSTALL EROSION CONTROL BLANKETS. MONITOR DISTURBED AREAS WEEKLY OR FOLLOWING RAIN EVENTS AND AMEND WITH ADDITIONAL SEEDING AS NEEDED UNTIL STABILIZATION IS ACHIEVED. WETLAND AFTER PHASE IS FULLY STABILIZED, REMOVE TEMPORARY STORMWATER CONTROLS. THE GROUND BOUNDARY SURFACE IS CONSIDERED STABILIZED ONCE IT HAS REACHED 80% VEGETATIVE COVERAGE PER THE SESC MANUAL. ONCE TEMPORARY MEASURES ARE REMOVED, INSTALL THE REMAINING RACKING AND COMPONENTS THAT ARE LOCATED WHERE THE TEMPORARY MEASURES WERE REMOVED. **ISSUED FOR** SESC NARRATIVE CONSTRUCTION THE PROPOSED PROJECT INCLUDES CLEARING AND STUMP REMOVAL, THE CONSTRUCTION OF A SOLAR ARRAY, FENCES, ACCESS ROADS, AND SITE LANDSCAPING. THE PROJECT SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN MULTIPLE PHASES TOTALING APPROXIMATELY 220 ACRES OF DISTURBANCE. Quinebaug Solar Project TREE CLEARING IS ANTICIPATED TO OCCUR PRIOR TO SITE CONSTRUCTION, DURING WINTER 2020/2021, PER NDDB RECOMMENDATIONS. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES CONFORM TO THE STANDARDS OUTLINED IN THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP), "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION. SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER 100' WETLAND POLLUTION CONTROL PLAN. BUFFER Quinebaug Solar, LLC <u>LEGEND</u> PROPERTY LINE \_\_\_\_\_ EXISTING INTERMEDIATE CONTOURS **EXISTING INDEX CONTOURS** \_ \_ \_ \_ \_ \_ \_ \_ \_ GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER STONE WALL .0000000000000 WETLAND BUFFER Brooklyn & WATERCOURSE BUFFER \_\_\_\_\_ DELINEATED WATERCOURSE \_\_\_\_\_\_\_ Canterbury, VERNAL POOL ----DELINEATED WETLAND **A A A** Connecticut EXISTING LIMIT OF VEGETATION ..... PROPOSED LIMIT OF VEGETATION PHASE LIMIT LINE VERIFY SCALE FUTURE LIMIT OF SOLAR ARRAY \_\_\_\_\_\_ BAR IS 1 INCH ON PERIMETER EROSION CONTROL -----ORIGINAL DRAWING TCS WITH SCD TEMP. CONVEYANCE SWALE WITH SCD IF NOT ONE INCH ON THIS SHEET, ADJUST TEMPORARY SOIL STOCKPILE SCALES ACCORDINGLY S&E CODES SCD STONE CHECK DAM TCS TEMP. CONVEYANCE SWALE 1 2/12/2021 PER CT DEEP COMMENT MARK DATE DESCRIPTION FUTURE LIMITS OF-PROJECT NO: R0317 **SOLAR ARRAY** 12/2020 FILE: SESC Plans\_10.dwg DRAWN BY ALG CHECKED: BSH/1FC APPROVED: FJH SOIL EROSION AND SEDIMENT CONTROL PLAN - 4GB SCALE: 1" = 40'

Last Saved: 2/12/2021

80' SE

SESC-73

#### GENERAL NOTES Tighe&Bond 1. EFFECTIVELY STABILIZE SOILS IN ONE PHASE 4 BEFORE COMMENCING GRADING AND CONSTRUCTION IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED —DELINEA TED 100' WETLAND TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION. WETLAND BUFFER BOUNDARY 2. CONFORM TO THE CURRENT CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL FOR ANY DELINEATED-SOIL DISTURBANCE TO THE EXISTING AGRICULTURAL FIELDS. WETLAND BOUNDARY 3. REFER TO STORMWATER POLLUTION CONTROL PLAN FOR SEDIMENT TRAP/BASIN SIZING CALCULATIONS. 4. REFER TO CONSTRUCTION DRAWINGS FOR ALL DESIGN INFORMATION. 5. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY REQUIRE MODIFICATION BY THE STORMWATER PROFESSIONAL DEPENDING ON ACTUAL FIELD CONDITIONS THROUGHOUT CONSTRUCTION DURATION. 6. PERMANENT STORMWATER BASINS WHICH OVERLAP LOCATIONS OF TEMPORARY STORMWATER FEATURES USED DURING CONSTRUCTION TO MANAGE STORMWATER SHALL BE EXCAVATED TO A SUITABLE DEPTH TO REMOVE ACCUMULATED SEDIMENT AND RESTORE INFILTRATION CHARACTERISTICS OF THE NATIVE SOIL AT THE END OF CONSTRUCTION, ONCE SITE STABILIZATION HAS BEEN ACHIEVED. PERMANENT STORMWATER BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN RUNOFF AND SHALL NOT BE DISTURBED BY VEHICLE TRAFFIC OR OTHER CONSTRUCTION ACTIVITIES. CONSTRUCTION PHASE 4 I. INSPECT AND INSTALL PERIMETER CONTROLS ESTABLISHED IN PHASE 2 TO ENSURE PHASE WORK AREA IS IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND SOIL EROSION AND SEDIMENT CONTROL PLAN. 2. INSPECT AND CONSTRUCT TEMPORARY SEDIMENT TRAPS AND/OR BASINS, DIVERSION SWALES AND BERMS WITH CHECK DAMS INSTALLED IN PHASE 2. 3. INSTALL SOLAR INFRASTRUCTURE, INCLUDING RACKING, SOLAR MODULES, UTILITY CONNECTIONS, AND EQUIPMENT PADS. SOLAR ARRAY CONSTRUCTION WILL BEGIN WITH POSTS OR GROUND SCREWS BEING DRIVEN INTO THE GROUND; RACKING WILL THEN BE AFFIXED TO THE POSTS; AND MODULES WILL BE MOUNTED AND INSTALLED ON THE RACKS. SCD 4. STABILIZE SITE WITH SEED AND MULCH IN ALL DISTURBED AREAS. IF A MINIMUM 4" OF TOPSOIL IS NOT PRESENT, AMEND WITH LOAM BORROW FOR A MINIMUM 4" OF VEGETATIVE SUPPORT MATERIAL TO PROMOTE GRASS GROWTH. STABILIZE AREAS WITH A SLOPE OF 7% OR STEEPER WITH HYDROSEED WITH BONDED FIBER MATRIX OR HYDROSEED AND INSTALL EROSION CONTROL BLANKETS. MONITOR DISTURBED AREAS WEEKLY OR FOLLOWING RAIN EVENTS AND AMEND WITH ADDITIONAL SEEDING AS NEEDED UNTIL STABILIZATION IS ACHIEVED. AFTER PHASE IS FULLY STABILIZED, REMOVE TEMPORARY STORMWATER CONTROLS. THE GROUND SURFACE IS CONSIDERED STABILIZED ONCE IT HAS REACHED 80% VEGETATIVE COVERAGE PER THE SESC MANUAL. ONCE TEMPORARY MEASURES ARE REMOVED, INSTALL THE REMAINING RACKING AND COMPONENTS THAT ARE LOCATED WHERE THE TEMPORARY MEASURES WERE REMOVED. **ISSUED FOR** SESC NARRATIVE CONSTRUCTION THE PROPOSED PROJECT INCLUDES CLEARING AND STUMP REMOVAL, THE CONSTRUCTION OF A SOLAR ARRAY, FENCES, ACCESS ROADS, AND SITE LANDSCAPING. THE PROJECT SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN MULTIPLE PHASES TOTALING APPROXIMATELY 220 ACRES OF DISTURBANCE. Quinebaug Solar Project PROPOSED -ACCESS -TREE CLEARING IS ANTICIPATED TO OCCUR PRIOR TO SITE CONSTRUCTION, DURING WINTER EQUIPMENT PAD ROAD -2020/2021, PER NDDB RECOMMENDATIONS. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES CONFORM TO THE STANDARDS OUTLINED IN THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP), "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER POLLUTION CONTROL PLAN. TEMPORARY Quinebaug <u>LEGEND</u> TOTAL REQUIRED S PROPERTY LINE TOTAL REQUIRED SEDIMENT STORAGI EXISTING INTERMEDIATE CONTOURS \_\_\_\_\_\_ TOTAL REQUIRED WET STORAGE **EXISTING INDEX CONTOURS** TOTAL PROVIDED ST GRAVEL ROAD/DRIVEWAY LENGTH OF BASIN TO BE APPROXIMATION VERNAL POOL BUFFER \_ \_ \_ \_ \_ \_ \_ STONE WALL MIN. 6,042 SQ. FT. BASIN .00000000000000000 \_ \_ \_ \_ \_ \_ \_ \_ WETLAND BUFFER EMERGEN WATERCOURSE BUFFER \_\_\_\_\_ Brooklyn & DELINEATED WATERCOURSE \_\_\_.\_. Canterbury, VERNAL POOL \_\_\_\_\_ EQUIPMENT PAD \_-DELINEATED WETLAND \_\_\_\_ Connecticut EXISTING LIMIT OF VEGETATION PROPOSED LIMIT OF VEGETATION PHASE LIMIT LINE \_\_\_\_\_\_ VERIFY SCALE FUTURE LIMIT OF SOLAR ARRAY \_\_\_\_\_\_ BAR IS 1 INCH ON PERIMETER EROSION CONTROL ORIGINAL DRAWING TEMP. CONVEYANCE SWALE WITH SCD IF NOT ONE INCH ON TEMPORARY SOIL STOCKPILE THIS SHEET, ADJUST SCALES ACCORDINGLY SCD STONE CHECK DAM TCS TEMP. CONVEYANCE SWALE CONNDOT M.01.01 NO. 3 STONE TEMPORARY PLYWOOD BA 2/12/2021 PER CT DEEP COMMENT \_\_\_\_\_\_\_\_\_\_ DATE DESCRIPTION PHASE 2H/4H PROJECT NO: R0317 12/2020 FILE: SESC Plans\_10.dwg DRAWN BY ALG CHECKED: BSH/1FC PPROVED: FJH SOIL EROSION AND SEDIMENT CONTROL PLAN - 4HA SCALE: 1" = 40' SESC-74

#### GENERAL NOTES EFFECTIVELY STABILIZE SOILS IN ONE PHASE 4 BEFORE COMMENCING GRADING AND CONSTRUCTION IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION. CONFORM TO THE CURRENT CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL FOR ANY SOIL DISTURBANCE TO THE EXISTING AGRICULTURAL FIELDS. REFER TO STORMWATER POLLUTION CONTROL PLAN FOR SEDIMENT TRAP/BASIN SIZING CALCULATIONS. REFER TO CONSTRUCTION DRAWINGS FOR ALL DESIGN INFORMATION. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY REQUIRE MODIFICATION BY THE STORMWATER PROFESSIONAL DEPENDING ON ACTUAL FIELD CONDITIONS THROUGHOUT CONSTRUCTION DURATION. PERMANENT STORMWATER BASINS WHICH OVERLAP LOCATIONS OF TEMPORARY STORMWATER FEATURES USED DURING CONSTRUCTION TO MANAGE STORMWATER SHALL BE EXCAVATED TO A SUITABLE DEPTH TO REMOVE ACCUMULATED SEDIMENT AND RESTORE INFILTRATION CHARACTERISTICS OF THE NATIVE SOIL AT THE END OF CONSTRUCTION, ONCE SITE STABILIZATION HAS BEEN ACHIEVED. PERMANENT STORMWATER BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN RUNOFF AND SHALL NOT BE DISTURBED BY VEHICLE TRAFFIC OR OTHER CONSTRUCTION ACTIVITIES. **CONSTRUCTION PHASE 4**

CONTROL PLAN.

SESC MANUAL.

SESC NARRATIVE

POLLUTION CONTROL PLAN.

EXISTING INDEX CONTOURS GRAVEL ROAD/DRIVEWAY

VERNAL POOL BUFFER

WATERCOURSE BUFFER

DELINEATED WETLAND

DELINEATED WATERCOURSE

EXISTING LIMIT OF VEGETATION

FUTURE LIMIT OF SOLAR ARRAY

PERIMETER EROSION CONTROL

TEMPORARY SOIL STOCKPILE

SCD STONE CHECK DAM

TCS TEMP. CONVEYANCE SWALE

TEMP. CONVEYANCE SWALE WITH SCD

PROPOSED LIMIT OF VEGETATION

EXISTING INTERMEDIATE CONTOURS

<u>LEGEND</u>

PROPERTY LINE

STONE WALL

VERNAL POOL

S&E CODES

WETLAND BUFFER

PHASE LIMIT LINE

BERMS WITH CHECK DAMS INSTALLED IN PHASE 2.

ARRAY, FENCES, ACCESS ROADS, AND SITE LANDSCAPING.

2020/2021, PER NDDB RECOMMENDATIONS.

PHASES TOTALING APPROXIMATELY 220 ACRES OF DISTURBANCE.

MODULES WILL BE MOUNTED AND INSTALLED ON THE RACKS.

ADDITIONAL SEEDING AS NEEDED UNTIL STABILIZATION IS ACHIEVED.

THAT ARE LOCATED WHERE THE TEMPORARY MEASURES WERE REMOVED.

AND EQUIPMENT PADS. SOLAR ARRAY CONSTRUCTION WILL BEGIN WITH POSTS OR GROUND

TO PROMOTE GRASS GROWTH. STABILIZE AREAS WITH A SLOPE OF 7% OR STEEPER WITH HYDROSEED WITH BONDED FIBER MATRIX OR HYDROSEED AND INSTALL EROSION CONTROL

TREE CLEARING IS ANTICIPATED TO OCCUR PRIOR TO SITE CONSTRUCTION, DURING WINTER

THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP), "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION

SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER

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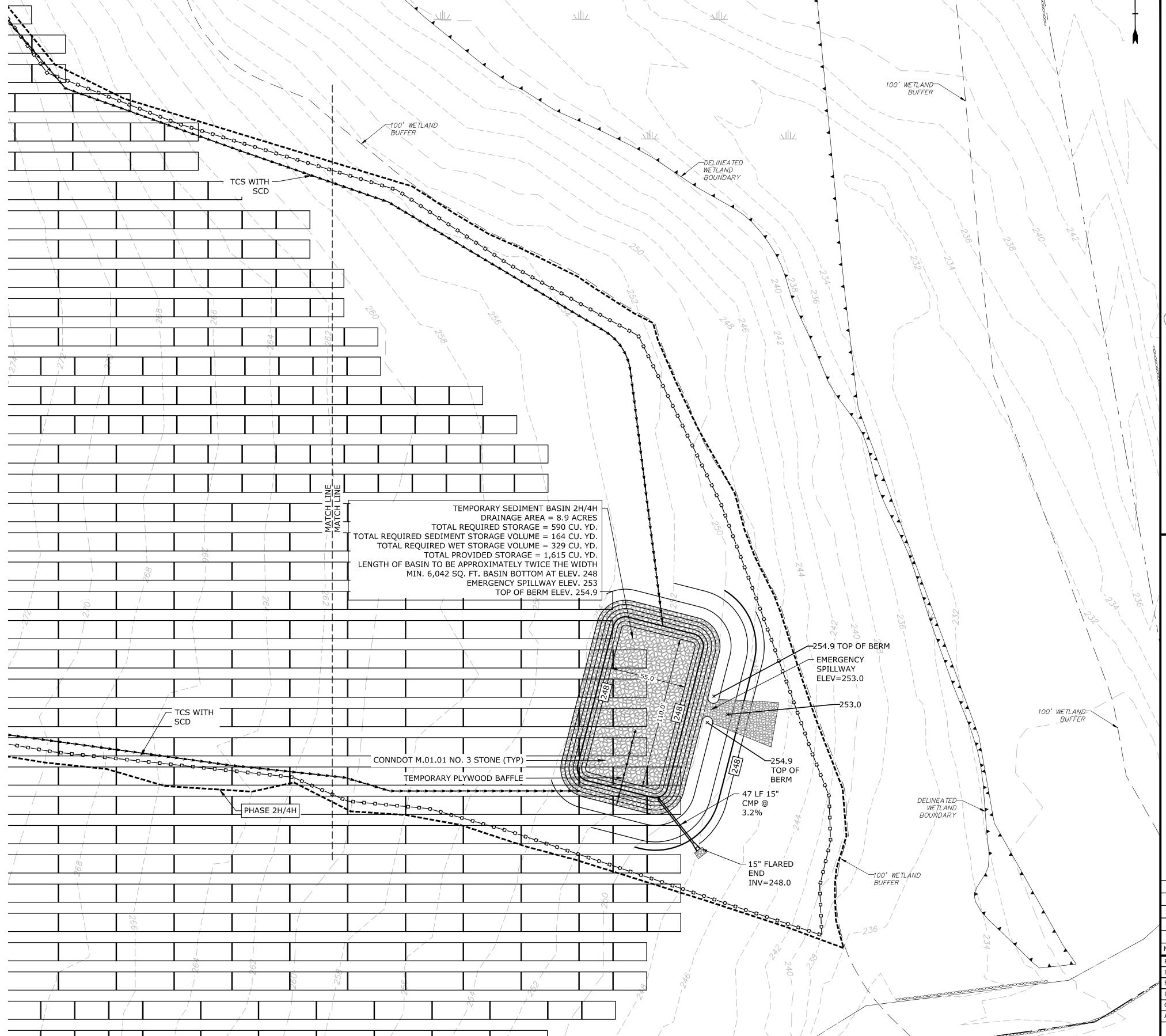
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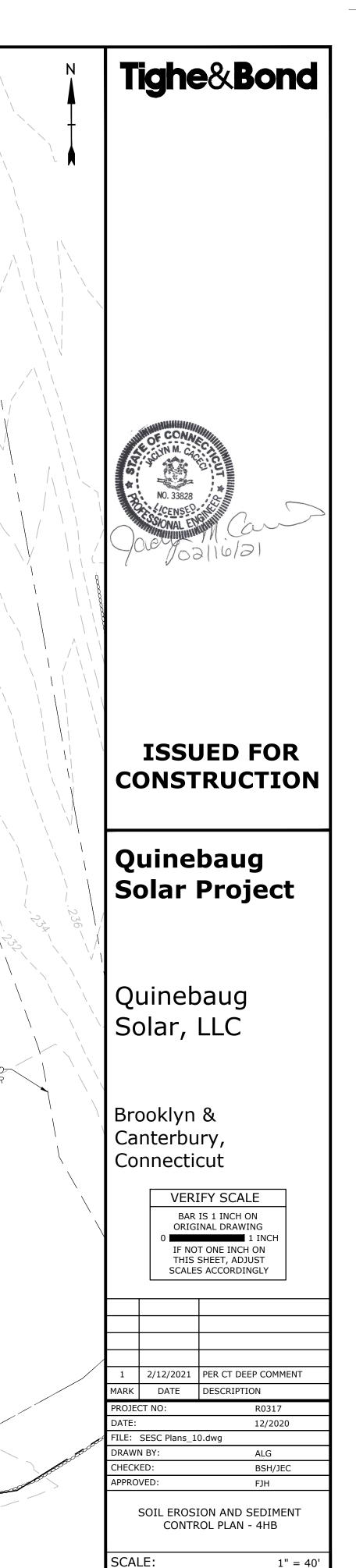
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### INSPECT AND INSTALL PERIMETER CONTROLS ESTABLISHED IN PHASE 2 TO ENSURE PHASE WORK AREA IS IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND SOIL EROSION AND SEDIMENT INSPECT AND CONSTRUCT TEMPORARY SEDIMENT TRAPS AND/OR BASINS, DIVERSION SWALES AND INSTALL SOLAR INFRASTRUCTURE, INCLUDING RACKING, SOLAR MODULES, UTILITY CONNECTIONS, SCREWS BEING DRIVEN INTO THE GROUND; RACKING WILL THEN BE AFFIXED TO THE POSTS; AND STABILIZE SITE WITH SEED AND MULCH IN ALL DISTURBED AREAS. IF A MINIMUM 4" OF TOPSOIL IS NOT PRESENT, AMEND WITH LOAM BORROW FOR A MINIMUM 4" OF VEGETATIVE SUPPORT MATERIAL BLANKETS. MONITOR DISTURBED AREAS WEEKLY OR FOLLOWING RAIN EVENTS AND AMEND WITH AFTER PHASE IS FULLY STABILIZED, REMOVE TEMPORARY STORMWATER CONTROLS. THE GROUND SURFACE IS CONSIDERED STABILIZED ONCE IT HAS REACHED 80% VEGETATIVE COVERAGE PER THE ONCE TEMPORARY MEASURES ARE REMOVED, INSTALL THE REMAINING RACKING AND COMPONENTS THE PROPOSED PROJECT INCLUDES CLEARING AND STUMP REMOVAL, THE CONSTRUCTION OF A SOLAR THE PROJECT SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN MULTIPLE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES CONFORM TO THE STANDARDS OUTLINED IN





SESC-75

#### GENERAL NOTES

- EFFECTIVELY STABILIZE SOILS IN ONE PHASE 4 BEFORE COMMENCING GRADING AND CONSTRUCTION IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION.
- CONFORM TO THE CURRENT CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL FOR ANY SOIL DISTURBANCE TO THE EXISTING AGRICULTURAL FIELDS.
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- TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY REQUIRE MODIFICATION BY THE STORMWATER PROFESSIONAL DEPENDING ON ACTUAL FIELD CONDITIONS THROUGHOUT CONSTRUCTION DURATION.
- PERMANENT STORMWATER BASINS WHICH OVERLAP LOCATIONS OF TEMPORARY STORMWATER FEATURES USED DURING CONSTRUCTION TO MANAGE STORMWATER SHALL BE EXCAVATED TO A SUITABLE DEPTH TO REMOVE ACCUMULATED SEDIMENT AND RESTORE INFILTRATION CHARACTERISTICS OF THE NATIVE SOIL AT THE END OF CONSTRUCTION, ONCE SITE STABILIZATION HAS BEEN ACHIEVED. PERMANENT STORMWATER BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN RUNOFF AND SHALL NOT BE DISTURBED BY VEHICLE TRAFFIC OR OTHER CONSTRUCTION

#### **CONSTRUCTION PHASE 4**

- INSPECT AND INSTALL PERIMETER CONTROLS ESTABLISHED IN PHASE 2 TO ENSURE PHASE WORK AREA IS IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND SOIL EROSION AND SEDIMENT CONTROL PLAN.
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- INSTALL SOLAR INFRASTRUCTURE, INCLUDING RACKING, SOLAR MODULES, UTILITY CONNECTIONS, AND EQUIPMENT PADS. SOLAR ARRAY CONSTRUCTION WILL BEGIN WITH POSTS OR GROUND SCREWS BEING DRIVEN INTO THE GROUND; RACKING WILL THEN BE AFFIXED TO THE POSTS; AND MODULES WILL BE MOUNTED AND INSTALLED ON THE RACKS.
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- AFTER PHASE IS FULLY STABILIZED, REMOVE TEMPORARY STORMWATER CONTROLS. THE GROUND SURFACE IS CONSIDERED STABILIZED ONCE IT HAS REACHED 80% VEGETATIVE COVERAGE PER THE SESC MANUAL.
- ONCE TEMPORARY MEASURES ARE REMOVED, INSTALL THE REMAINING RACKING AND COMPONENTS THAT ARE LOCATED WHERE THE TEMPORARY MEASURES WERE REMOVED.

#### SESC NARRATIVE

THE PROPOSED PROJECT INCLUDES CLEARING AND STUMP REMOVAL, THE CONSTRUCTION OF A SOLAR ARRAY, FENCES, ACCESS ROADS, AND SITE LANDSCAPING.

THE PROJECT SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN MULTIPLE PHASES TOTALING APPROXIMATELY 220 ACRES OF DISTURBANCE.

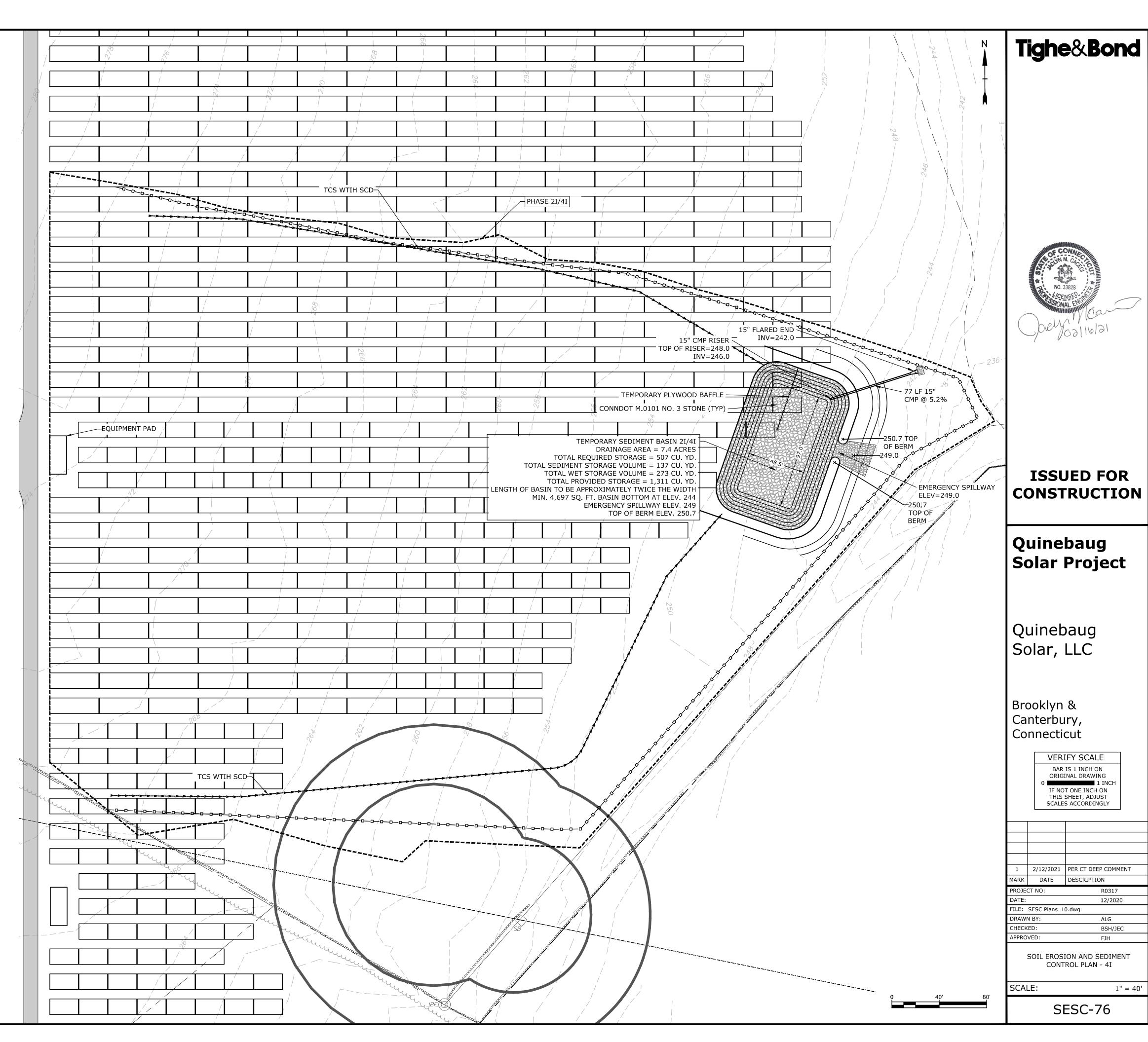
TREE CLEARING IS ANTICIPATED TO OCCUR PRIOR TO SITE CONSTRUCTION, DURING WINTER 2020/2021, PER NDDB RECOMMENDATIONS.

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SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER POLLUTION CONTROL PLAN.

| LEGEND                          |                                         |
|---------------------------------|-----------------------------------------|
| PROPERTY LINE                   |                                         |
| EXISTING INTERMEDIATE CONTOURS  |                                         |
| EXISTING INDEX CONTOURS         |                                         |
| GRAVEL ROAD/DRIVEWAY            |                                         |
| VERNAL POOL BUFFER              |                                         |
| STONE WALL                      | .00000000000000000000000000000000000000 |
| WETLAND BUFFER                  |                                         |
| WATERCOURSE BUFFER              |                                         |
| DELINEATED WATERCOURSE          |                                         |
| VERNAL POOL                     |                                         |
| DELINEATED WETLAND              |                                         |
| EXISTING LIMIT OF VEGETATION    |                                         |
| PROPOSED LIMIT OF VEGETATION    |                                         |
| PHASE LIMIT LINE                |                                         |
| FUTURE LIMIT OF SOLAR ARRAY     |                                         |
| PERIMETER EROSION CONTROL       |                                         |
| TEMP. CONVEYANCE SWALE WITH SCD | <br>          -                         |
| TEMPORARY SOIL STOCKPILE        |                                         |

SCD STONE CHECK DAM
TCS TEMP. CONVEYANCE SWALE



#### **GENERAL NOTES**

- EFFECTIVELY STABILIZE SOILS IN ONE PHASE 4 BEFORE COMMENCING GRADING AND CONSTRUCTION IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION.
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- . REFER TO CONSTRUCTION DRAWINGS FOR ALL DESIGN INFORMATION.
- TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY REQUIRE MODIFICATION BY THE STORMWATER PROFESSIONAL DEPENDING ON ACTUAL FIELD CONDITIONS THROUGHOUT CONSTRUCTION DURATION.
- PERMANENT STORMWATER BASINS WHICH OVERLAP LOCATIONS OF TEMPORARY STORMWATER FEATURES USED DURING CONSTRUCTION TO MANAGE STORMWATER SHALL BE EXCAVATED TO A SUITABLE DEPTH TO REMOVE ACCUMULATED SEDIMENT AND RESTORE INFILTRATION CHARACTERISTICS OF THE NATIVE SOIL AT THE END OF CONSTRUCTION, ONCE SITE STABILIZATION HAS BEEN ACHIEVED. PERMANENT STORMWATER BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN RUNOFF AND SHALL NOT BE DISTURBED BY VEHICLE TRAFFIC OR OTHER CONSTRUCTION ACTIVITIES.

#### **CONSTRUCTION PHASE 4**

- INSPECT AND INSTALL PERIMETER CONTROLS ESTABLISHED IN PHASE 2 TO ENSURE PHASE WORK AREA IS IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND SOIL EROSION AND SEDIMENT CONTROL PLAN.
- INSPECT AND CONSTRUCT TEMPORARY SEDIMENT TRAPS AND/OR BASINS, DIVERSION SWALES AND BERMS WITH CHECK DAMS INSTALLED IN PHASE 2.
- INSTALL SOLAR INFRASTRUCTURE, INCLUDING RACKING, SOLAR MODULES, UTILITY CONNECTIONS, AND EQUIPMENT PADS. SOLAR ARRAY CONSTRUCTION WILL BEGIN WITH POSTS OR GROUND SCREWS BEING DRIVEN INTO THE GROUND; RACKING WILL THEN BE AFFIXED TO THE POSTS; AND MODULES WILL BE MOUNTED AND INSTALLED ON THE RACKS.
- STABILIZE SITE WITH SEED AND MULCH IN ALL DISTURBED AREAS. IF A MINIMUM 4" OF TOPSOIL IS NOT PRESENT, AMEND WITH LOAM BORROW FOR A MINIMUM 4" OF VEGETATIVE SUPPORT MATERIAL TO PROMOTE GRASS GROWTH. STABILIZE AREAS WITH A SLOPE OF 7% OR STEEPER WITH HYDROSEED WITH BONDED FIBER MATRIX OR HYDROSEED AND INSTALL EROSION CONTROL BLANKETS. MONITOR DISTURBED AREAS WEEKLY OR FOLLOWING RAIN EVENTS AND AMEND WITH ADDITIONAL SEEDING AS NEEDED UNTIL STABILIZATION IS ACHIEVED.
- AFTER PHASE IS FULLY STABILIZED, REMOVE TEMPORARY STORMWATER CONTROLS. THE GROUND SURFACE IS CONSIDERED STABILIZED ONCE IT HAS REACHED 80% VEGETATIVE COVERAGE PER THE SESC MANUAL.
- ONCE TEMPORARY MEASURES ARE REMOVED, INSTALL THE REMAINING RACKING AND COMPONENTS THAT ARE LOCATED WHERE THE TEMPORARY MEASURES WERE REMOVED.

#### SESC NARRATIVE

THE PROPOSED PROJECT INCLUDES CLEARING AND STUMP REMOVAL, THE CONSTRUCTION OF A SOLAR ARRAY, FENCES, ACCESS ROADS, AND SITE LANDSCAPING.

THE PROJECT SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN MULTIPLE PHASES TOTALING APPROXIMATELY 220 ACRES OF DISTURBANCE.

TREE CLEARING IS ANTICIPATED TO OCCUR PRIOR TO SITE CONSTRUCTION, DURING WINTER 2020/2021, PER NDDB RECOMMENDATIONS.

SOIL EROSION AND SEDIMENTATION CONTROL MEASURES CONFORM TO THE STANDARDS OUTLINED IN THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP), "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION

SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER POLLUTION CONTROL PLAN.

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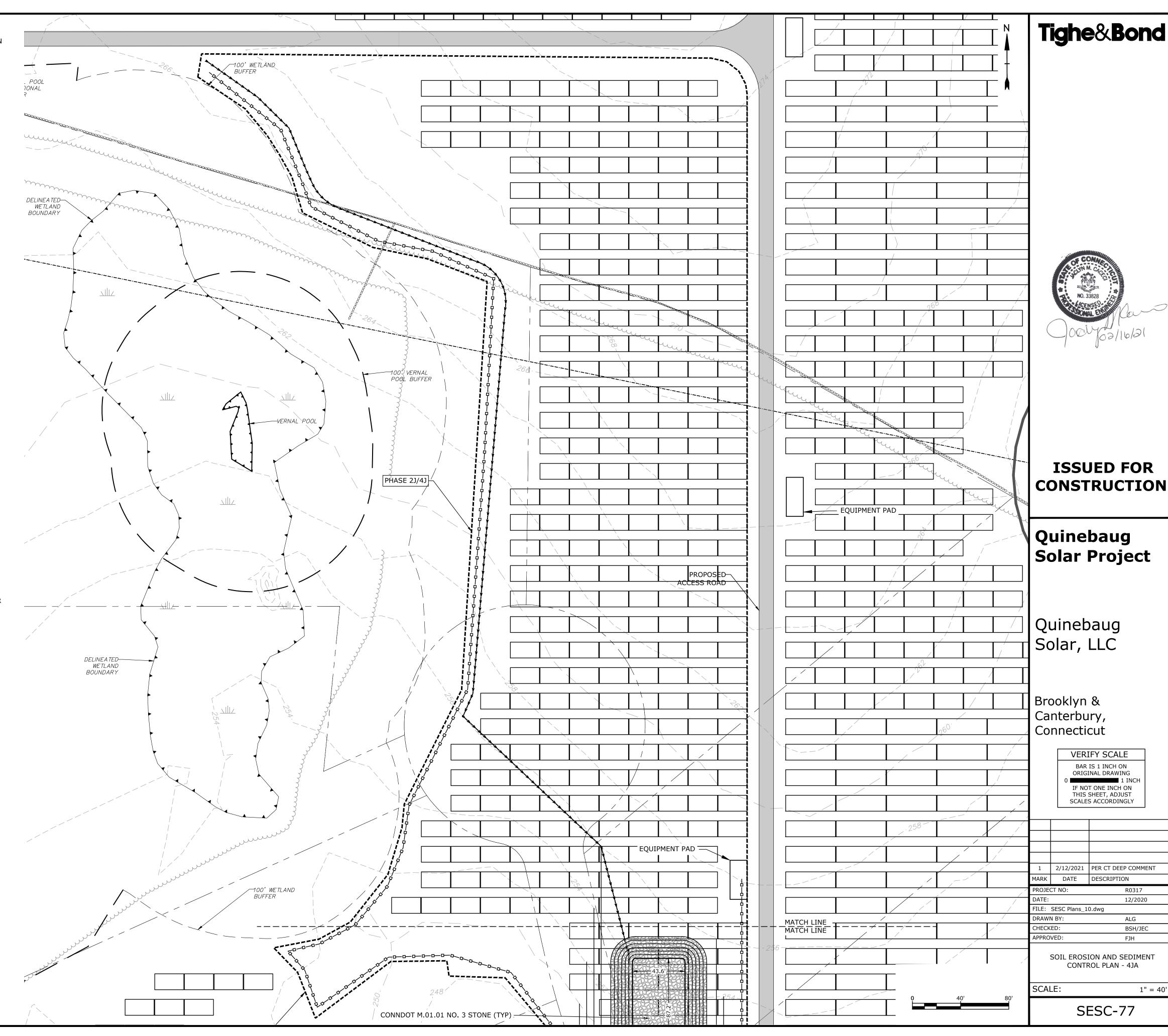
| LEGEND |  |
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PROPERTY LINE EXISTING INTERMEDIATE CONTOURS **EXISTING INDEX CONTOURS** GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER STONE WALL WETLAND BUFFER WATERCOURSE BUFFER DELINEATED WATERCOURSE VERNAL POOL DELINEATED WETLAND **EXISTING LIMIT OF VEGETATION** PROPOSED LIMIT OF VEGETATION

PHASE LIMIT LINE FUTURE LIMIT OF SOLAR ARRAY PERIMETER EROSION CONTROL TEMP. CONVEYANCE SWALE WITH SCD

TEMPORARY SOIL STOCKPILE

SCD STONE CHECK DAM TCS TEMP. CONVEYANCE SWALE



#### Tighe&Bond **GENERAL NOTES** 1. EFFECTIVELY STABILIZE SOILS IN ONE PHASE 4 BEFORE COMMENCING GRADING AND CONSTRUCTION IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION. 2. CONFORM TO THE CURRENT CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL FOR ANY SOIL DISTURBANCE TO THE EXISTING AGRICULTURAL FIELDS. REFER TO STORMWATER POLLUTION CONTROL PLAN FOR SEDIMENT TRAP/BASIN SIZING DELINEATED-CALCULATIONS. WETLAND BOUNDARY 4. REFER TO CONSTRUCTION DRAWINGS FOR ALL DESIGN INFORMATION. 5. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY REQUIRE MODIFICATION BY THE STORMWATER PROFESSIONAL DEPENDING ON ACTUAL FIELD CONDITIONS THROUGHOUT CONSTRUCTION DURATION. 6. PERMANENT STORMWATER BASINS WHICH OVERLAP LOCATIONS OF TEMPORARY STORMWATER FEATURES USED DURING CONSTRUCTION TO MANAGE STORMWATER SHALL BE EXCAVATED TO A SUITABLE DEPTH TO REMOVE ACCUMULATED SEDIMENT AND RESTORE INFILTRATION CHARACTERISTICS OF THE NATIVE SOIL AT THE END OF CONSTRUCTION, ONCE SITE STABILIZATION HAS BEEN ACHIEVED. PERMANENT STORMWATER BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN RUNOFF AND SHALL NOT BE DISTURBED BY VEHICLE TRAFFIC OR OTHER CONSTRUCTION ACTIVITIES. **CONSTRUCTION PHASE 4** 1. INSPECT AND INSTALL PERIMETER CONTROLS ESTABLISHED IN PHASE 2 TO ENSURE PHASE WORK AREA IS IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND SOIL EROSION AND SEDIMENT CONTROL PLAN. 2. INSPECT AND CONSTRUCT TEMPORARY SEDIMENT TRAPS AND/OR BASINS, DIVERSION SWALES AND BERMS WITH CHECK DAMS INSTALLED IN PHASE 2. EQUIPMENT PAD 3. INSTALL SOLAR INFRASTRUCTURE, INCLUDING RACKING, SOLAR MODULES, UTILITY CONNECTIONS, AND EQUIPMENT PADS. SOLAR ARRAY CONSTRUCTION WILL BEGIN WITH POSTS OR GROUND 100' WETLAND SCREWS BEING DRIVEN INTO THE GROUND; RACKING WILL THEN BE AFFIXED TO THE POSTS; AND BUFFER MODULES WILL BE MOUNTED AND INSTALLED ON THE RACKS. 4. STABILIZE SITE WITH SEED AND MULCH IN ALL DISTURBED AREAS. IF A MINIMUM 4" OF TOPSOIL IS NOT PRESENT, AMEND WITH LOAM BORROW FOR A MINIMUM 4" OF VEGETATIVE SUPPORT MATERIAL MATCH LINE TO PROMOTE GRASS GROWTH. STABILIZE AREAS WITH A SLOPE OF 7% OR STEEPER WITH HYDROSEED WITH BONDED FIBER MATRIX OR HYDROSEED AND INSTALL EROSION CONTROL BLANKETS. MONITOR DISTURBED AREAS WEEKLY OR FOLLOWING RAIN EVENTS AND AMEND WITH ,\_\_\_\_\_\_ ADDITIONAL SEEDING AS NEEDED UNTIL STABILIZATION IS ACHIEVED. AFTER PHASE IS FULLY STABILIZED, REMOVE TEMPORARY STORMWATER CONTROLS. THE GROUND SURFACE IS CONSIDERED STABILIZED ONCE IT HAS REACHED 80% VEGETATIVE COVERAGE PER THE SESC MANUAL. 6. ONCE TEMPORARY MEASURES ARE REMOVED, INSTALL THE REMAINING RACKING AND COMPONENTS CONNDOT M.01.01 NO. 3 STONE (TYP) THAT ARE LOCATED WHERE THE TEMPORARY MEASURES WERE REMOVED. **ISSUED FOR** ─ 15" CMP RISER SESC NARRATIVE TEMPORARY SEDIMENT BASIN 2J/4J **CONSTRUCTION** TOP OF RISER=254.0 DRAINAGE AREA = 5.8 ACRES - INV=252.0 THE PROPOSED PROJECT INCLUDES CLEARING AND STUMP REMOVAL, THE CONSTRUCTION OF A SOLAR TOTAL REQUIRED STORAGE = 418 CU. YD. PHASE 2J ARRAY, FENCES, ACCESS ROADS, AND SITE LANDSCAPING. TOTAL REQUIRED SEDIMENT STORAGE VOLUME = 107 CU. YD. TOTAL REQUIRED WET STORAGE VOLUME = 214 CU. YD. THE PROJECT SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN MULTIPLE TOTAL PROVIDED STORAGE = 1,103 CU. YD. PHASES TOTALING APPROXIMATELY 220 ACRES OF DISTURBANCE. LENGTH OF BASIN TO BE APPROXIMATELY TWICE THE WIDTH Quinebaug Solar Project MIN. 3,794 SQ. FT. BASIN BOTTOM AT ELEV. 250 TREE CLEARING IS ANTICIPATED TO OCCUR PRIOR TO SITE CONSTRUCTION, DURING WINTER EMERGENCY SPILLWAY ELEV. 255 2020/2021, PER NDDB RECOMMENDATIONS. TOP OF BERM ELEV. 256.7 15" FLARED END INV=247.0 \_ SOIL EROSION AND SEDIMENTATION CONTROL MEASURES CONFORM TO THE STANDARDS OUTLINED IN TOP OF THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP), "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION. 256.7 TOP OF SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER BERM POLLUTION CONTROL PLAN. Quinebaug Solar, LLC **EMERGENCY SPILLWAY** ELEV=255.0 **LEGEND** PROPERTY LINE EXISTING INTERMEDIATE CONTOURS EXISTING INDEX CONTOURS ( 206 LF 15" CMP @ 2.43% — GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER STONE WALL 000000000000 WETLAND BUFFER Brooklyn & WATERCOURSE BUFFER \_\_\_\_\_\_\_ DELINEATED WATERCOURSE Canterbury, VERNAL POOL DELINEATED WETLAND \_\_\_\_\_ Connecticut EXISTING LIMIT OF VEGETATION ..... INV ELEV-= 239.04 PROPOSED LIMIT OF VEGETATION PHASE LIMIT LINE VERIFY SCALE \_\_\_\_\_\_ FUTURE LIMIT OF SOLAR ARRAY \_\_\_\_\_\_ BAR IS 1 INCH ON PERIMETER EROSION CONTROL ORIGINAL DRAWING ——————————— TEMP. CONVEYANCE SWALE WITH SCD IF NOT ONE INCH ON THIS SHEET, ADJUST TEMPORARY SOIL STOCKPILE SCALES ACCORDINGLY —DELINEATED WETLAND BOUNDARY SCD STONE CHECK DAM TCS TEMP. CONVEYANCE SWALE 1 2/12/2021 PER CT DEEP COMMENT MARK DATE DESCRIPTION ROJECT NO: R0317 WETLAND -12/2020 FILE: SESC Plans\_10.dwg DRAWN BY: ALG CHECKED: BSH/1FC PPROVED: FJH SOIL EROSION AND SEDIMENT CONTROL PLAN - 4JB SCALE: 1" = 40' SESC-78

#### **GENERAL NOTES** Tighe&Bond EFFECTIVELY STABILIZE SOILS IN ONE PHASE 4 BEFORE COMMENCING GRADING AND CONSTRUCTION IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED DELINEATED— TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION. *WATERCOURSE* CONFORM TO THE CURRENT CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL FOR ANY SOIL DISTURBANCE TO THE EXISTING AGRICULTURAL FIELDS. REFER TO STORMWATER POLLUTION CONTROL PLAN FOR SEDIMENT TRAP/BASIN SIZING CALCULATIONS. 4. REFER TO CONSTRUCTION DRAWINGS FOR ALL DESIGN INFORMATION. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY REQUIRE MODIFICATION BY THE STORMWATER PROFESSIONAL DEPENDING ON ACTUAL FIELD CONDITIONS THROUGHOUT CONSTRUCTION DURATION. 6. PERMANENT STORMWATER BASINS WHICH OVERLAP LOCATIONS OF TEMPORARY STORMWATER FEATURES USED DURING CONSTRUCTION TO MANAGE STORMWATER SHALL BE EXCAVATED TO A SUITABLE DEPTH TO REMOVE ACCUMULATED SEDIMENT AND RESTORE INFILTRATION CHARACTERISTICS OF THE NATIVE SOIL AT THE END OF CONSTRUCTION, ONCE SITE STABILIZATION HAS BEEN ACHIEVED. PERMANENT STORMWATER BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN RUNOFF AND SHALL NOT BE DISTURBED BY VEHICLE TRAFFIC OR OTHER CONSTRUCTION POTENTIAL BREEDING POOL TO-ACTIVITIES. BE PROTECTED AND AVOIDED **DURING CONSTRUCTION CONSTRUCTION PHASE 4** INSPECT AND INSTALL PERIMETER CONTROLS ESTABLISHED IN PHASE 2 TO ENSURE PHASE WORK AREA IS IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND SOIL EROSION AND SEDIMENT CONTROL PLAN. NO. 33828 -DOUBLE ROW OF-INSPECT AND CONSTRUCT TEMPORARY SEDIMENT TRAPS AND/OR BASINS, DIVERSION SWALES AND **EROSION CONTROL** BERMS WITH CHECK DAMS INSTALLED IN PHASE 2. INSTALL SOLAR INFRASTRUCTURE, INCLUDING RACKING, SOLAR MODULES, UTILITY CONNECTIONS, AND EQUIPMENT PADS. SOLAR ARRAY CONSTRUCTION WILL BEGIN WITH POSTS OR GROUND SCREWS BEING DRIVEN INTO THE GROUND; RACKING WILL THEN BE AFFIXED TO THE POSTS; AND MODULES WILL BE MOUNTED AND INSTALLED ON THE RACKS. 167.0 TOP OF BERM STABILIZE SITE WITH SEED AND MULCH IN ALL DISTURBED AREAS. IF A MINIMUM 4" OF TOPSOIL IS NOT PRESENT, AMEND WITH LOAM BORROW FOR A MINIMUM 4" OF VEGETATIVE SUPPORT MATERIAL TCS WITH SCD-SPILLWAY TO PROMOTE GRASS GROWTH. STABILIZE AREAS WITH A SLOPE OF 7% OR STEEPER WITH HYDROSEED WITH BONDED FIBER MATRIX OR HYDROSEED AND INSTALL EROSION CONTROL SEDIMENT TRAP 2K/4K BLANKETS. MONITOR DISTURBED AREAS WEEKLY OR FOLLOWING RAIN EVENTS AND AMEND WITH TOTAL REQUIRED STORAGE = 603 CU. YD. ADDITIONAL SEEDING AS NEEDED UNTIL STABILIZATION IS ACHIEVED. PROVIDED WET STORAGE = 348 CU. YD. PROVIDED DRY STORAGE = 491 CU. YD. AFTER PHASE IS FULLY STABILIZED, REMOVE TEMPORARY STORMWATER CONTROLS. THE GROUND TOTAL PROVIDED STORAGE = 839 CU. YD. SURFACE IS CONSIDERED STABILIZED ONCE IT HAS REACHED 80% VEGETATIVE COVERAGE PER THE DEPTH OF WET STORAGE = 2 FEET SESC MANUAL. DEPTH OF DRY STORAGE = 2 FEET MIN. 3,581 SQ. FT. TRAP BOTTOM AT ELEV. 162 ONCE TEMPORARY MEASURES ARE REMOVED, INSTALL THE REMAINING RACKING AND COMPONENTS WEIR CREST ELEV. 166 -THAT ARE LOCATED WHERE THE TEMPORARY MEASURES WERE REMOVED. TOP OF BERM ELEV. 167 **ISSUED FOR** SESC NARRATIVE **CONSTRUCTION** THE PROPOSED PROJECT INCLUDES CLEARING AND STUMP REMOVAL, THE CONSTRUCTION OF A SOLAR ARRAY, FENCES, ACCESS ROADS, AND SITE LANDSCAPING. THE PROJECT SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN MULTIPLE PHASES TOTALING APPROXIMATELY 220 ACRES OF DISTURBANCE. Quinebaug Solar Project PHASE 2K/4K TREE CLEARING IS ANTICIPATED TO OCCUR PRIOR TO SITE CONSTRUCTION, DURING WINTER 2020/2021, PER NDDB RECOMMENDATIONS. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES CONFORM TO THE STANDARDS OUTLINED IN THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP), 'CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION. SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER POLLUTION CONTROL PLAN. Quinebaug Solar, LLC <u>LEGEND</u> PROPERTY LINE EXISTING INTERMEDIATE CONTOURS \_ \_ \_ \_ \_ \_ \_ \_ EXISTING INDEX CONTOURS GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER STONE WALL TEMPORARY LOW FLOW CROSSING TO $^{arphi}$ WETLAND BUFFER BE MAINTAINED DURING Brooklyn & WATERCOURSE BUFFER CONSTRUCTION. GRADING SHOULD BE DELINEATED WATERCOURSE \_\_\_\_\_\_\_ MODIFIED TO THE PROPOSED -Canterbury, VERNAL POOL \_\_\_\_\_ CONDITION DEPICTED IN THE BUFFER DELINEATED WETLAND \_\_\_\_\_ QUINEBAUG SOLAR PROJECT Connecticut EXISTING LIMIT OF VEGETATION ...... CONSTRUCTION DRAWINGS DURING PROPOSED LIMIT OF VEGETATION REMOVAL OF TEMPORARY MEASURES PHASE LIMIT LINE VERIFY SCALE FUTURE LIMIT OF SOLAR ARRAY BAR IS 1 INCH ON PERIMETER EROSION CONTROL -----ORIGINAL DRAWING TEMP. CONVEYANCE SWALE WITH SCD IF NOT ONE INCH ON THIS SHEET, ADJUST TEMPORARY SOIL STOCKPILE DELINEATED-SCALES ACCORDINGLY WETLAND BOUNDARY S&E CODES SCD STONE CHECK DAM TCS TEMP. CONVEYANCE SWALE 1 2/12/2021 PER CT DEEP COMMENT MARK DATE DESCRIPTION PROJECT NO: R0317 12/2020 FILE: SESC Plans\_10.dwg DRAWN BY: ALG HECKED: BSH/1FC PPROVED: FJH SOIL EROSION AND SEDIMENT CONTROL PLAN - 4K SCALE: 1" = 40' /-100' WETLAND SESC-79 BUFFER

#### **GENERAL NOTES** EFFECTIVELY STABILIZE SOILS IN ONE PHASE 4 BEFORE COMMENCING GRADING AND CONSTRUCTION IN ANOTHER PHASE. ANY MODIFICATIONS TO THE PROPOSED PHASING PLANS MUST BE SUBMITTED TO CT DEEP FOR REVIEW AND APPROVAL PRIOR TO INITIATING A CONSTRUCTION MODIFICATION. 2. CONFORM TO THE CURRENT CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL FOR ANY SOIL DISTURBANCE TO THE EXISTING AGRICULTURAL FIELDS. 3. REFER TO STORMWATER POLLUTION CONTROL PLAN FOR SEDIMENT TRAP/BASIN SIZING CALCULATIONS. 4. REFER TO CONSTRUCTION DRAWINGS FOR ALL DESIGN INFORMATION. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY REQUIRE MODIFICATION BY THE STORMWATER PROFESSIONAL DEPENDING ON ACTUAL FIELD CONDITIONS THROUGHOUT CONSTRUCTION DURATION. 6. PERMANENT STORMWATER BASINS WHICH OVERLAP LOCATIONS OF TEMPORARY STORMWATER FEATURES USED DURING CONSTRUCTION TO MANAGE STORMWATER SHALL BE EXCAVATED TO A SUITABLE DEPTH TO REMOVE ACCUMULATED SEDIMENT AND RESTORE INFILTRATION CHARACTERISTICS OF THE NATIVE SOIL AT THE END OF CONSTRUCTION, ONCE SITE STABILIZATION HAS BEEN ACHIEVED. PERMANENT STORMWATER BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN RUNOFF AND SHALL NOT BE DISTURBED BY VEHICLE TRAFFIC OR OTHER CONSTRUCTION

#### CONSTRUCTION PHASE 4

ACTIVITIES.

- 1. INSPECT AND INSTALL PERIMETER CONTROLS ESTABLISHED IN PHASE 2 TO ENSURE PHASE WORK AREA IS IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND SOIL EROSION AND SEDIMENT CONTROL PLAN.
- 2. INSPECT AND CONSTRUCT TEMPORARY SEDIMENT TRAPS AND/OR BASINS, DIVERSION SWALES AND BERMS WITH CHECK DAMS INSTALLED IN PHASE 2.
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- 5. AFTER PHASE IS FULLY STABILIZED, REMOVE TEMPORARY STORMWATER CONTROLS. THE GROUND SURFACE IS CONSIDERED STABILIZED ONCE IT HAS REACHED 80% VEGETATIVE COVERAGE PER THE SESC MANUAL.
- 6. ONCE TEMPORARY MEASURES ARE REMOVED, INSTALL THE REMAINING RACKING AND COMPONENTS THAT ARE LOCATED WHERE THE TEMPORARY MEASURES WERE REMOVED.

#### SESC NARRATIVE

SCD STONE CHECK DAM

TCS TEMP. CONVEYANCE SWALE

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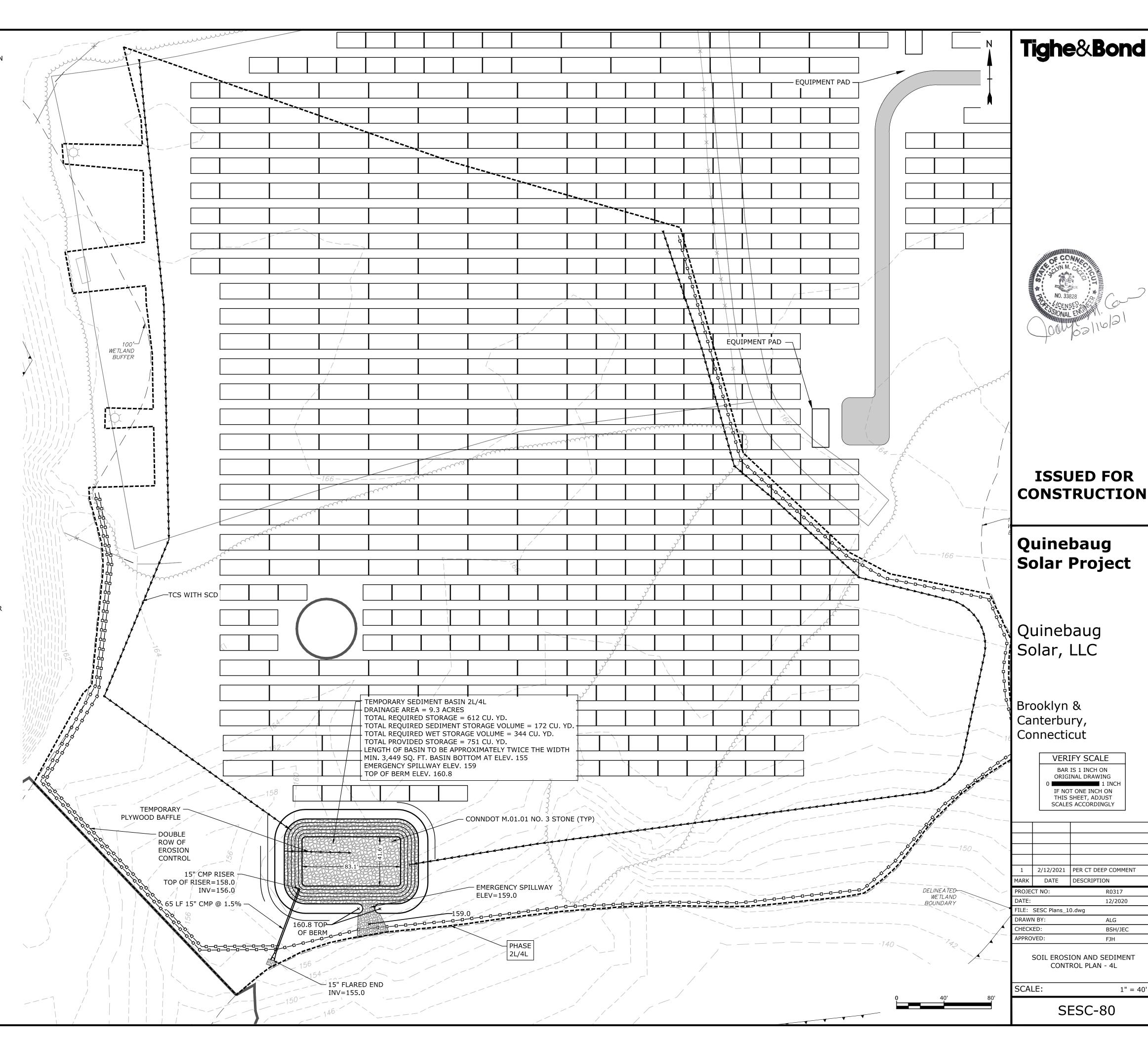
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SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER POLITION CONTROL PLAN

| POLLUTION CONTROL PLAN.                                                                                                                                                                                                                                                                                                                                                                                  | ood (Hone / Me + Noviges in |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| LEGEND  PROPERTY LINE  EXISTING INTERMEDIATE CONTOURS  EXISTING INDEX CONTOURS  GRAVEL ROAD/DRIVEWAY  VERNAL POOL BUFFER  STONE WALL  WETLAND BUFFER  WATERCOURSE BUFFER  DELINEATED WATERCOURSE  VERNAL POOL  DELINEATED WETLAND  EXISTING LIMIT OF VEGETATION  PROPOSED LIMIT OF VEGETATION  PHASE LIMIT LINE  FUTURE LIMIT OF SOLAR ARRAY  PERIMETER EROSION CONTROL  TEMP. CONVEYANCE SWALE WITH SCD |                             |
|                                                                                                                                                                                                                                                                                                                                                                                                          |                             |

NOTE: THE AREA IN WHICH PHASE 2L AND 4L OCCUR MUST BE STABILIZED AT COMMENCEMENT OF CONSTRUCTION OF PHASE 3L.



# **GENERAL NOTES**

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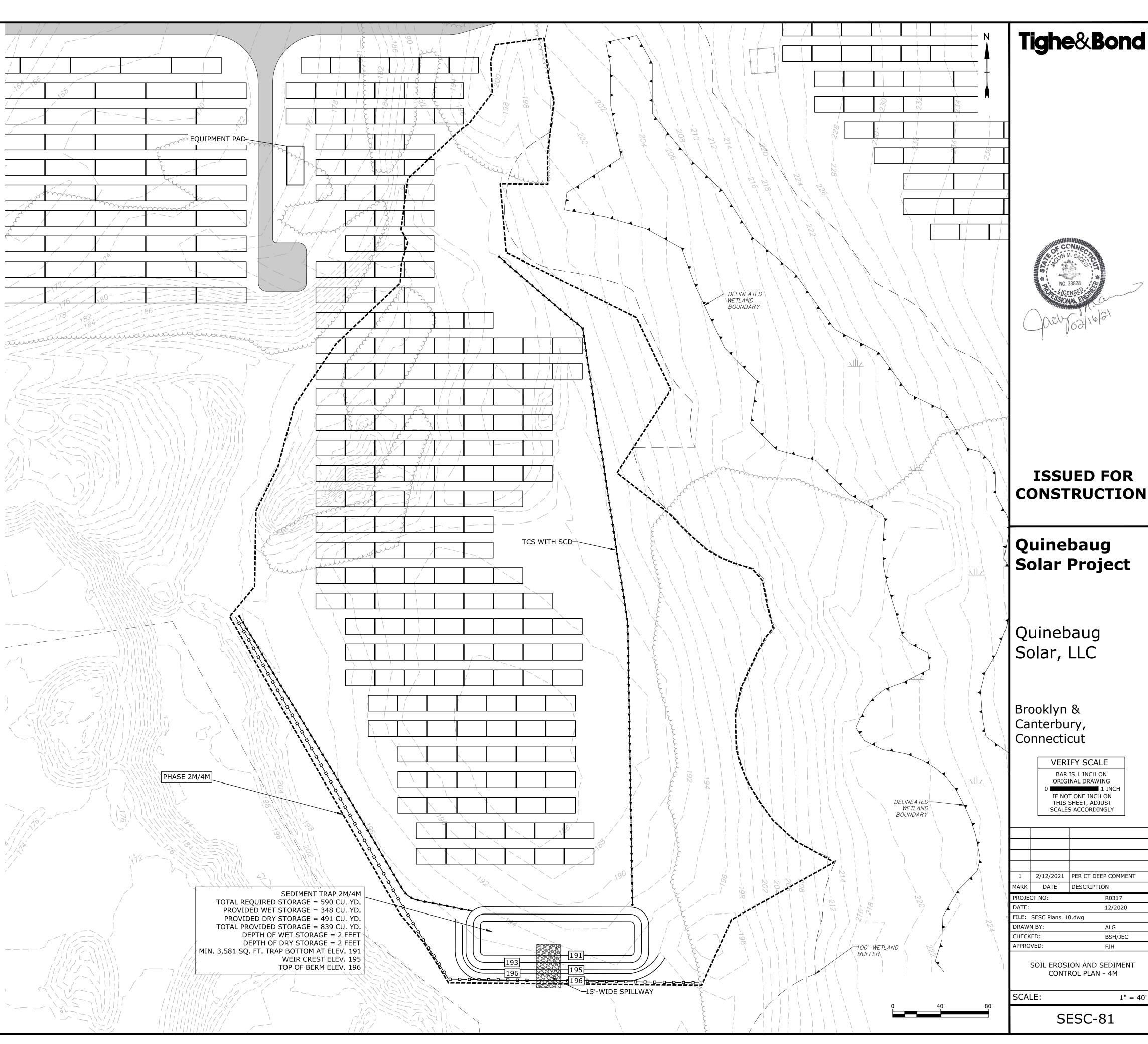
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SEDIMENT TRAP AND BASIN SIZING CALCULATIONS ARE PROVIDED IN APPENDIX C OF THE STORMWATER

PROPERTY LINE EXISTING INTERMEDIATE CONTOURS EXISTING INDEX CONTOURS GRAVEL ROAD/DRIVEWAY VERNAL POOL BUFFER STONE WALL 000000000000000000 WETLAND BUFFER WATERCOURSE BUFFER DELINEATED WATERCOURSE \_\_\_\_\_\_\_\_ VERNAL POOL \_\_\_\_\_ DELINEATED WETLAND EXISTING LIMIT OF VEGETATION  $\dots$ PROPOSED LIMIT OF VEGETATION PHASE LIMIT LINE FUTURE LIMIT OF SOLAR ARRAY PERIMETER EROSION CONTROL -----TEMP. CONVEYANCE SWALE WITH SCD TEMPORARY SOIL STOCKPILE

S&E CODES

SCD STONE CHECK DAM TCS TEMP. CONVEYANCE SWALE



## SOIL TO BE TAMPED DOWN OVER BLANKET - STAKE/STAPLE -STAKE/STAPLE

#### NOTES:

TRENCH, WIDTH-

PACKED STRAW —

BARRIER

OF BALE

1. EXCAVATE A TRENCH 4" DEEP AND

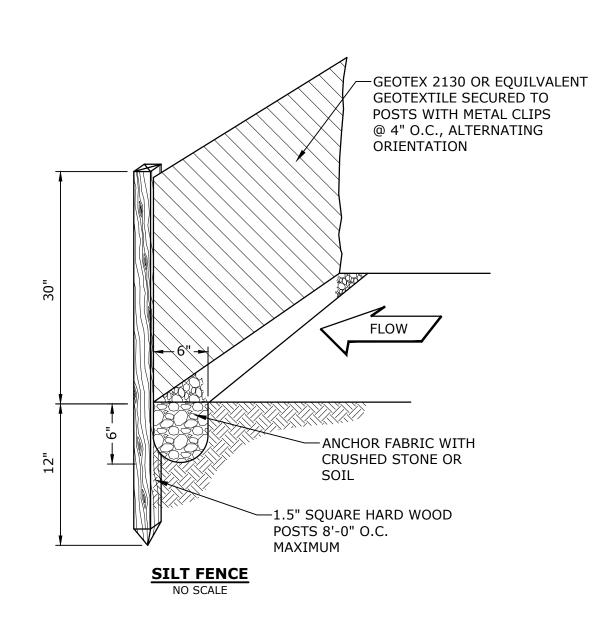
THE WIDTH OF THE HAYBALE

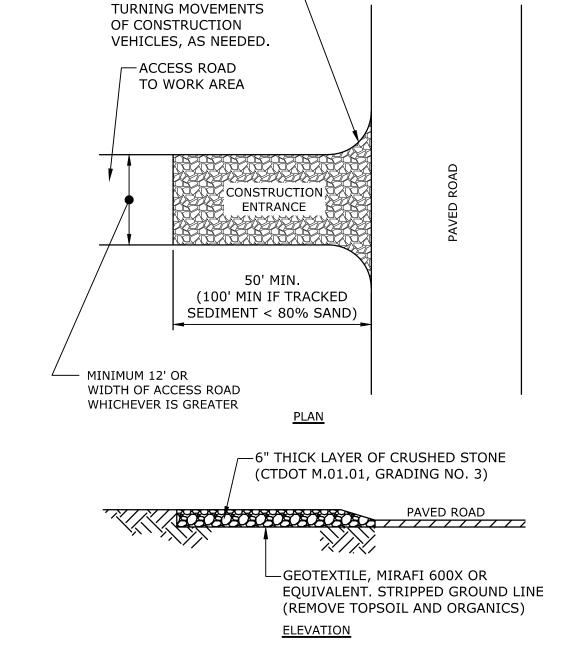
3. WEDGE LOOSE STRAW BETWEEN

BALES TO CREATE A CONTINUOUS

- 1. EROSION CONTROL BLANKET TO BE INSTALLED VERTICALLY DOWNSLOPE.
- 2. STAKES/STAPLES TO BE PLACED NO MORE THAN 3 FT APART VERTICALLY, AND 1 FT APART HORIZONTALLY.
- 3. SLOPE SURFACE TO BE FREE OF STICKS, ROCKS, AND OTHER OBSTRUCTIONS.
- 4. BLANKETS TO BE ROLLED OUT LOOSELY AND STAKED/STAPLED TO MAINTAIN DIRECT SOIL CONTACT. DO NOT STRETCH THE BLANKETS.

#### **EROSION CONTROL BLANKET** NO SCALE





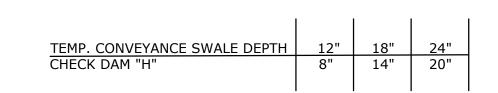
RADIUS TO ACCOMODATE—

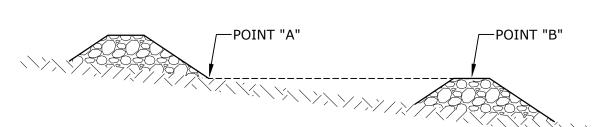
#### **CONSTRUCTION ENTRANCE**

#### $\rightarrow$ A <sup>≤</sup>36" MAX. -GEOTEXTILE MIRAFI 500X OR **EQUIVALENT** WIDTH **EQUAL TO VARIES** SECTION A-A

-CRUSHED STONE

(CTDOT M.01.01, GRADING NO. 3)





STONE CHECK DAMS TO BE SPACED SUCH THAT POINTS A AND B ARE AT THE SAME ELEVATION. SPACING TO BE CALCULATED IN THE FIELD DURING CONSTRUCTION OF THE SWALES.

> STONE CHECK DAM SPACING **STONE CHECK DAM**

> > NO SCALE

#### Quinebaug **Solar Project**

**ISSUED FOR** 

**CONSTRUCTION** 

Tighe&Bond

Quinebaug Solar, LLC

Brooklyn and Canterbury, Connecticut

| 1                      | 02/12/2021 | PER CT DEEP COMMENT |
|------------------------|------------|---------------------|
| MARK                   | DATE       | DESCRIPTION         |
| PROJECT NO:            |            | R-0317              |
| DATE:                  |            | 12/2020             |
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DETAILS - 1

CHECKED:

APPROVED:

SCALE: NO SCAL

SESC-82

STABILIZE ENTIRE PILE WITH— VEGETATION OR COVER IF INACTIVE FOR 30 DAYS OR MORE SLOPE OR LESS SLOPE AWAY SLOPE AWAY / DIVERT UPSTREAM RUNOFF AROUND SILT FENCE-TOE OF STOCKPILE STOCKPILE

#### **INSTALLATION NOTES:**

- 1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
- 2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2H:1V.
- 3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR HAYBALES, THEN STABILIZED WITH VEGETATION OR COVERED.
- 4. LOCATE STOCKPILES IN UPGRADIENT AREAS OF SUBPHASES SO STORMWATER FLOWS AWAY AND/OR AROUND STOCKPILE TO THE MAXIMUM EXTENT POSSIBLE.

#### **TEMPORARY SOIL STOCKPILING**

-BINDING WIRE

OR TWINE

4. BACKFILL AND COMPACT EXCAVATED SOIL ON THE UPHILL SIDE OF THE BARRIER TO PREVENT PIPING

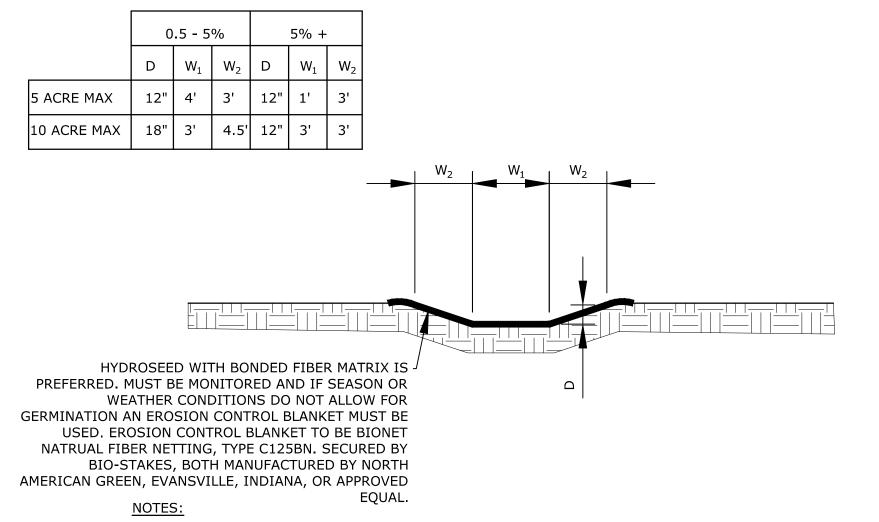
PLACE AND STAKE HAYBALES

TWO STAKES PER BALE

STAKE—

PLACEMENT AND CONSTRUCTION OF HAYBALE BARRIER

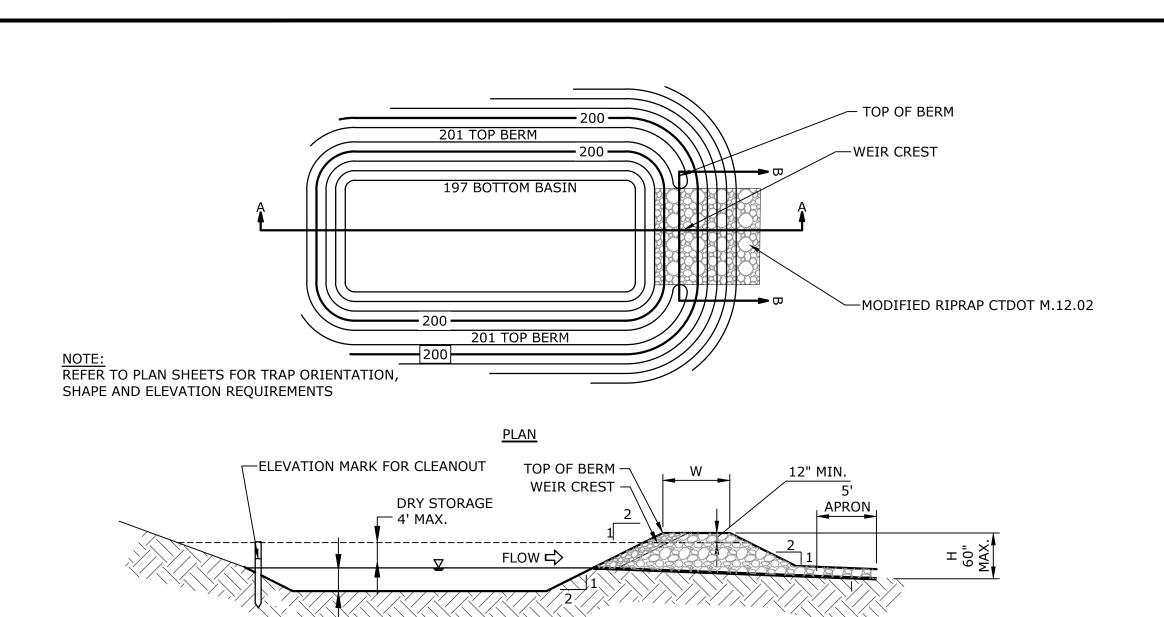
COMPACTED BACKFILL-

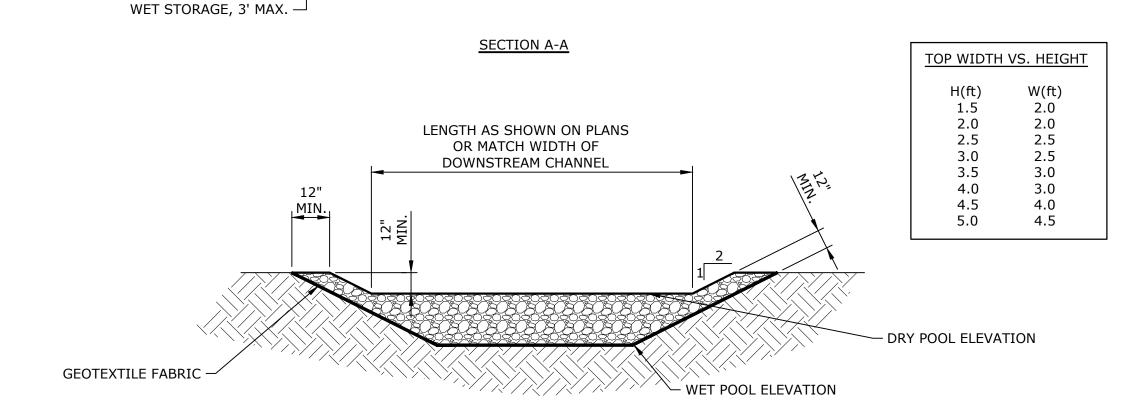


- 1. MINIMUM RUNNING SLOPE OF 0.5%
- 2. EXCAVATE SOILS FROM SWALES AND LOCATE ADJACENT TO SWALES WITHOUT IMPEDING STORMWATER FLOWS. LOCATIONS OF SOILS ARE SUBJECT TO APPROVAL BY THE ENGINEER.
- 3. IN AREAS WHERE SWALES CONVERGE, A CHECK DAM SHOULD BE LOCATED IMMEDIATELY UPSTREAM OF THE CONVERGENCE POINT.

**TEMPORARY CONVEYANCE SWALE** 

BSH/JEC

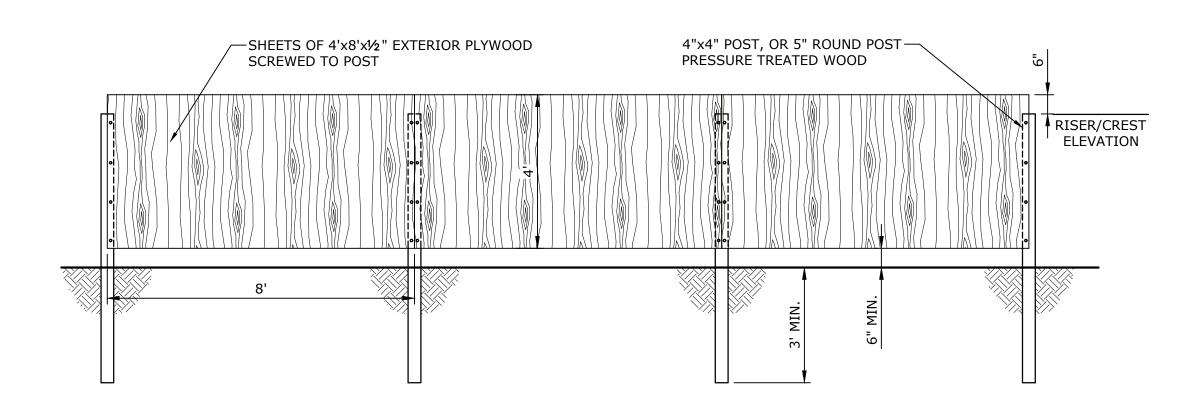




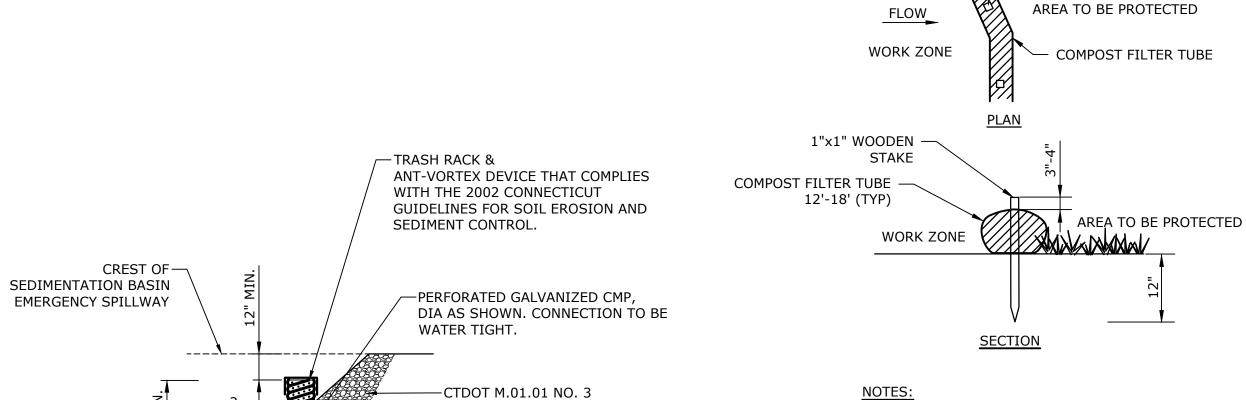
NON-OVERFLOW PORTIONS AND ABUTMENTS MAY BE CONSTRUCTED OF COMPACTED EARTH FILL.

#### TYPICAL TEMPORARY SEDIMENT TRAP SECTION

SECTION B-B



**TEMPORARY PLYWOOD BAFFLE** 



CRUSHED STONE

PIPE, DIA AS SHOWN.

3,000 PSI CONCRETE ANCHOR,

MIN. GAUGE

MIN. GAUGE

2 x DIA. SQ. x 18" THICK

EMBED RISER 6" MIN.

CORRUGATED METAL PIPE REQUIREMENTS FOR RISERS:

CORRUGATED STEEL PIPE

CORRUGATED ALUMINUM PIPE

PIPE DIA. INCHES 8-21 24 30 36 48 54

24 30 36 48 54

16 14 14 14 10 10

**TEMPORARY SEDIMENTATION BASIN STANDPIPE** 

16 14 14 12 10 10 10

- ANTI-SEEPAGE COLLAR

—OUTLET GALVANIZED CMP STORM DRAIN

1. TUBES FOR COMPOST FILTERS SHALL BE JUTE MESH OR APPROVED BIODEGRADABLE MATERIAL.

- STAKE EVERY 10'±

- 2. TAMP TUBES IN PLACE TO ENSURE GOOD CONTACT WITH SOIL SURFACE.
- 3. PROVIDE 3' MINIMUM OVERLAP AT ENDS OF TUBES TO JOIN IN A CONTINUOUS BARRIER AND MINIMIZE UNIMPEDED FLOW.
- 4. COMPOST MATERIAL TO BE DISPERSED ON SITE WITHIN LIMITS OF WORK FOLLOWING SITE STABILIZATION, AS DIRECTED.
- 5. INSTALL TUBES ALONG CONTOURS AND PERPENDICULAR TO SHEET OR CONCENTRATED FLOW.
- 6. DO NOT INSTALL IN PERENNIAL, EPHEMERAL OR INTERMITTENT STREAMS.
- 7. CONFIGURE TUBES AROUND EXISTING SITE FEATURES TO MINIMIZE SITE DISTURBANCE AND MAXIMIZE CAPTURE AREA OF STORMWATER RUN-OFF.

#### EROSION CONTROL BARRIER NO SCALE

← 16" THICK ACCESS ROAD - 16" MIN MODIFIED RIPRAP (CTDOT M.12.02(3.)) WOVEN GEOTEXTILE FABRIC (MIRAFI 600X OR APPROVED EQUAL)

#### NOTES:

1. AT THE COMPLETION OF CONSTRUCTION AND FOLLOWING SITE STABILIZATION REMOVE ALL TEMPORARY LOW-FLOW CROSSINGS AND ANY SOILS ON TOP OF FABRIC AND REPLACE WITH CLEAN MODIFIED RIPRAP.

#### MODIFIED RIP RAP LOW FLOW CROSSING

Tighe&Bond



**ISSUED FOR CONSTRUCTION** 

#### Quinebaug **Solar Project**

Quinebaug Solar, LLC

Brooklyn and Canterbury, Connecticut

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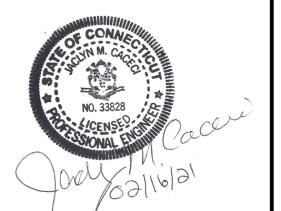
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SESC-83

# EXISTING GRADE \*- THICKNESS SHALL BE AS INDICATED OR 1.5 xd avg. WHICHEVER IS GREATER \*- THICKNESS SHALL BE AS INDICATED OR 1.5 xd avg. WHICHEVER IS GREATER OVERLAP SEAMS 12.7 MIN

#### STONE AT CULVERT ENDS NO SCALE

#### Tighe&Bond



ISSUED FOR CONSTRUCTION

#### Quinebaug Solar Project

Quinebaug Solar, LLC

Brooklyn and Canterbury, Connecticut

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APPROVED: FJH

DETAILS - 3

SCALE:

SESC-84

NO SCALE