

# Site Plans

Issued for	Application
Date Issued	September 29, 2021
Latest Issue	September 29, 2021

## Photovoltaic Installation

361 Old Tavern Road  
Orange, Connecticut



100 Great Meadow Road  
Suite 200  
Wethersfield, CT 06109  
860.807.4300

**Licensed Land Surveyor**

Northeast Survey Consultants  
116 Pleasant St. Suite 302  
P.O. Box 109  
Easthampton, MA 01027  
413-203-5144

**Applicant**

Greenskies Clean Energy, LLC  
127 Washington Ave  
West Building, Garden Level  
North Haven, CT 06473

**Map / Block / Lot:**

11 / 03 / 02

**Owner**

Addie Associates LLC  
361 Old Tavern Road  
Orange, CT 06477

Sheet Index			Reference Drawings		
No.	Drawing Title	Latest Issue	No.	Drawing Title	Latest Issue
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C-2.0	Key Plan	September 29, 2021			
C-3.0	Layout and Materials Plan - Overall	September 29, 2021			
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C-4.0	Grading and Drainage Plan - Overall	September 29, 2021			
C-4.1-4.2	Grading and Drainage Plan 1 and 2	September 29, 2021			
C-5.0	Erosion and Sediment Control Plan - Overall	September 29, 2021			
C-5.1-5.2	Erosion and Sediment Control Plan 1 and 2	September 29, 2021			
C-6.1-6.2	Site Details	September 29, 2021			





100 Great Meadow Road Suite 200 Wethersfield, CT 06109 860.807.4300

Legend

Legend table with columns for Exist. and Prop. symbols and descriptions for various site features like property lines, pavements, curbs, and utilities.

Abbreviations

Abbreviations table listing symbols and descriptions for general site elements such as catch basins, manholes, poles, and drainage structures.

Notes

- Notes section containing 11 numbered items detailing contractor responsibilities, utility requirements, erosion control measures, and safety protocols.

Photovoltaic Installation 361 Old Tavern Road Orange, Connecticut

Revision table with columns for No., Revision, Date, and Apprd.

Designed by JDW Checked by SJK Issued for Application Date September 29, 2021

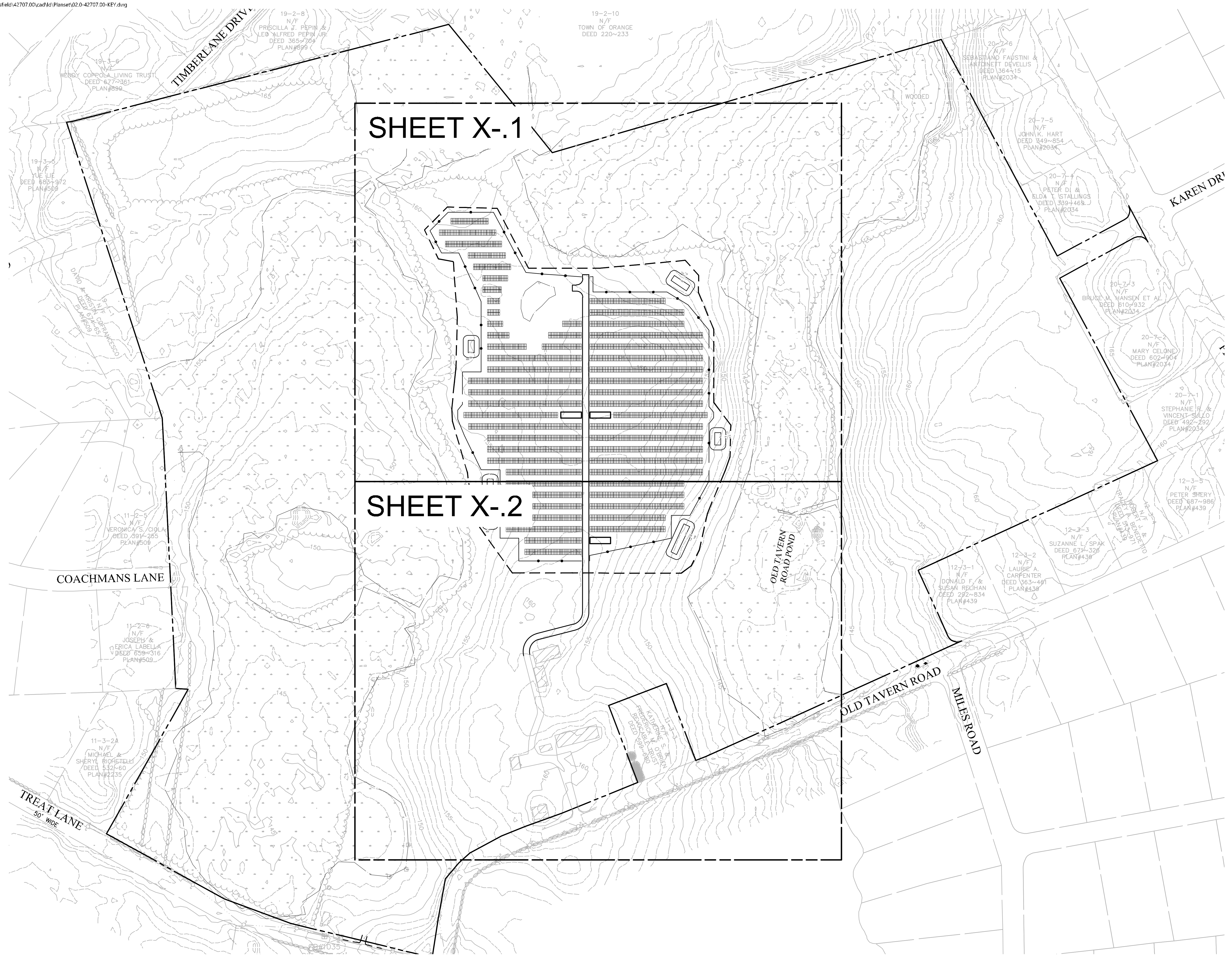
Not Approved for Construction Legend and General Notes Drawing Number

C-1.0



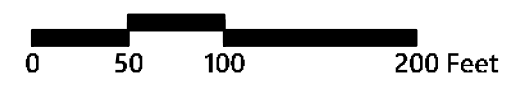
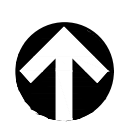


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SHEET X-1

SHEET X-2



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Drawing Number

C-2.0

Sheet 2 of 13

Project Number  
42707.00

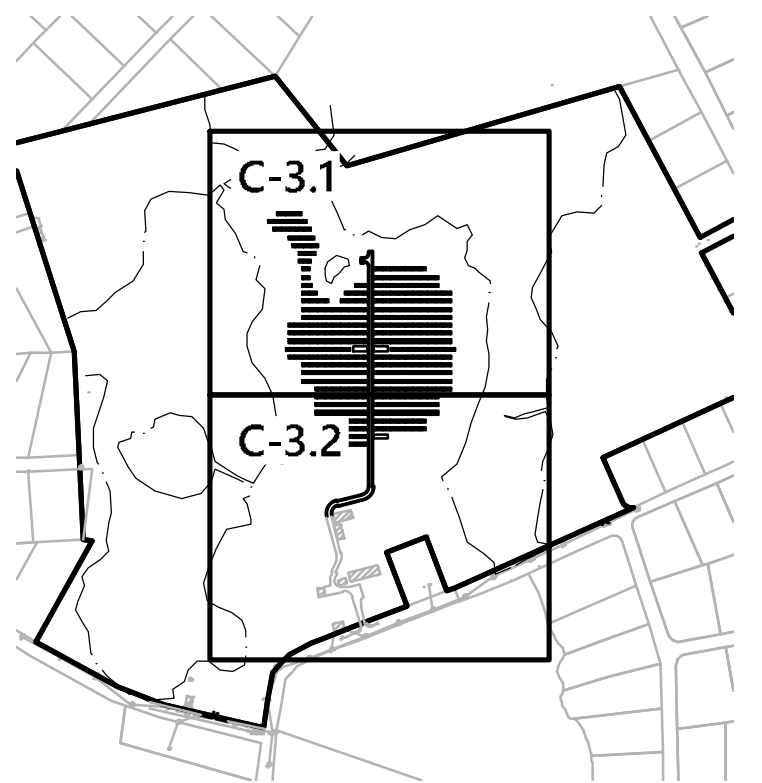


### PROJECT INFORMATION

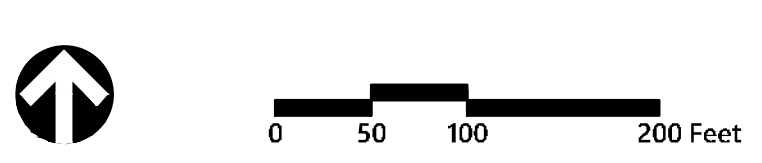
- PARCEL SIZE: ±87 ACRES
- ZONE DESIGNATION: RES - Residential
- LIMITS OF WORK: ±11 ACRES
- AREA OF PROPOSED TREE CLEARING: 0 ACRES
- PROPOSED NUMBER OF PANELS: ±5,256
- PANEL TYPE: 550 W
- ROW SPACING: ±14' CLEAR
- GROUND COVER RATIO: ±49.3%
- TILT ANGLE: 30°
- INVERTER TYPE: CANADIAN SOLAR CSE-125KTL-GS-E
- SYSTEM POWER: ±2.9 MW-DC / ±2.5 MW-AC



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### Layout and Materials Plan - Overall

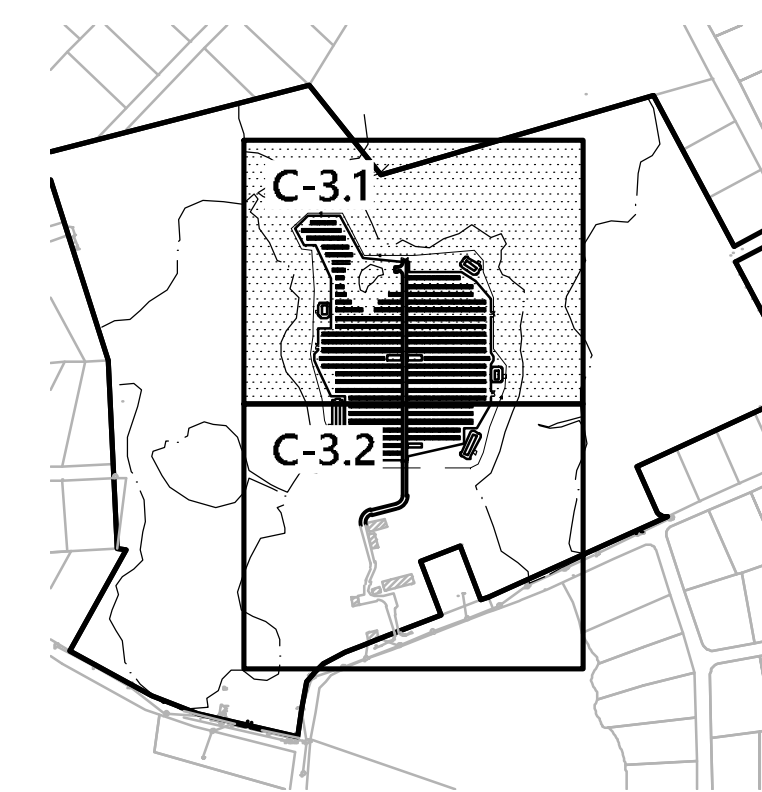
Drawing Number

# C-3.0

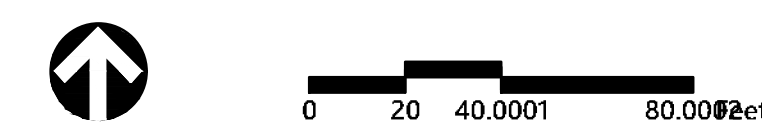
Sheet 3 of 13

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42707.00





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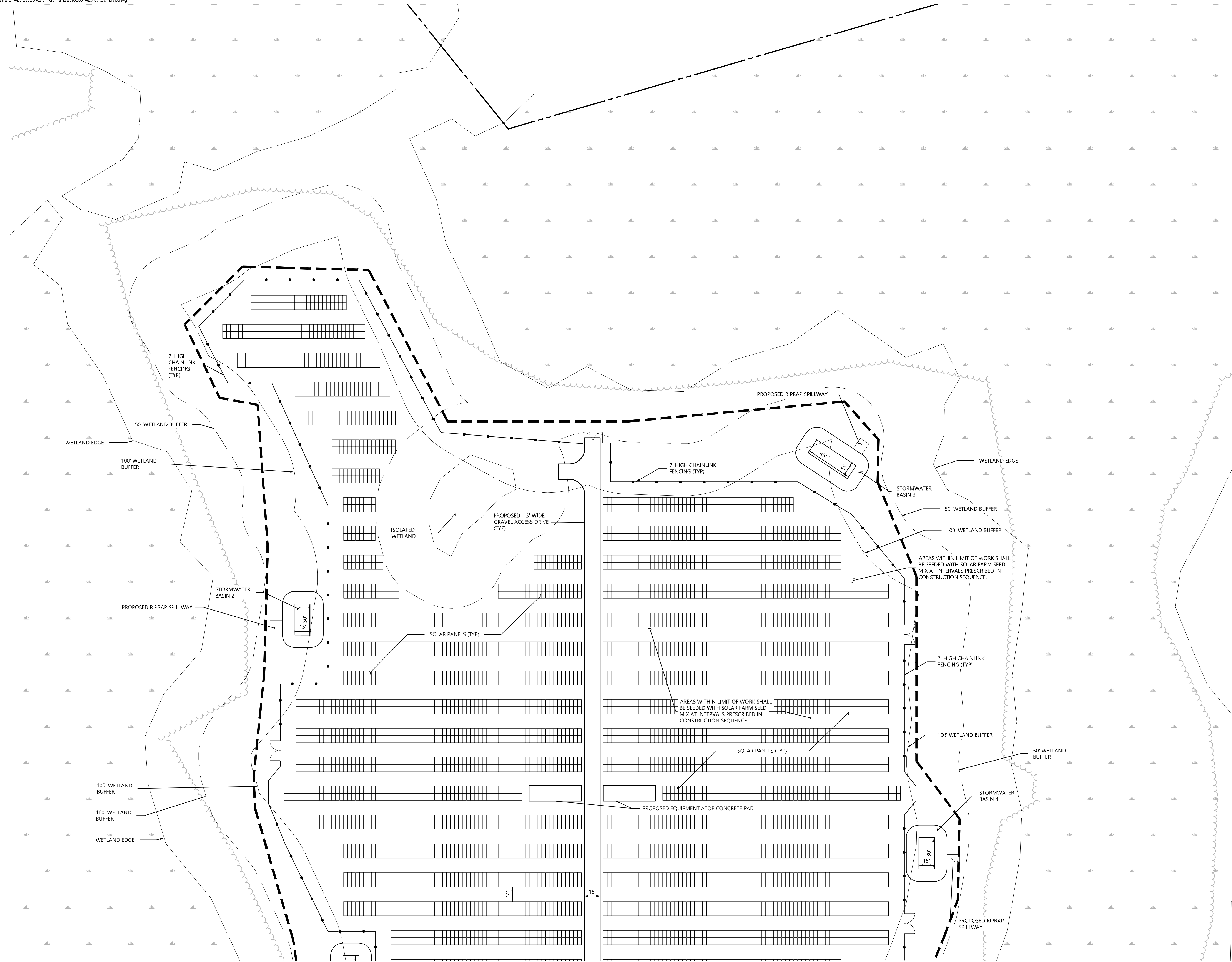
**Layout and Materials Plan 1**

Drawing Number

**C-3.1**

Sheet 4 of 13

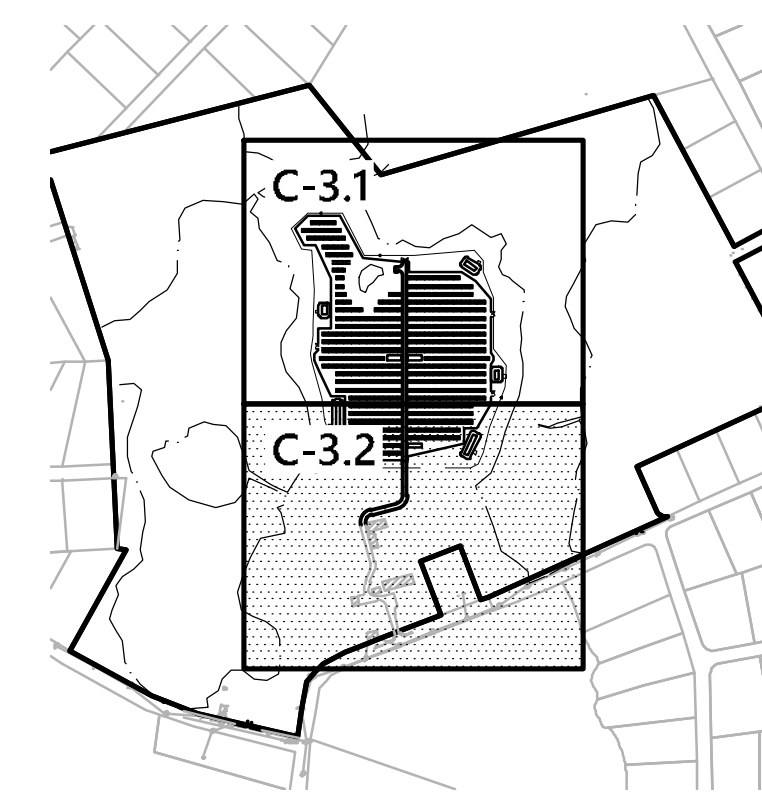
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42707.00



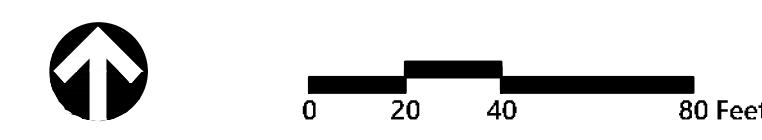
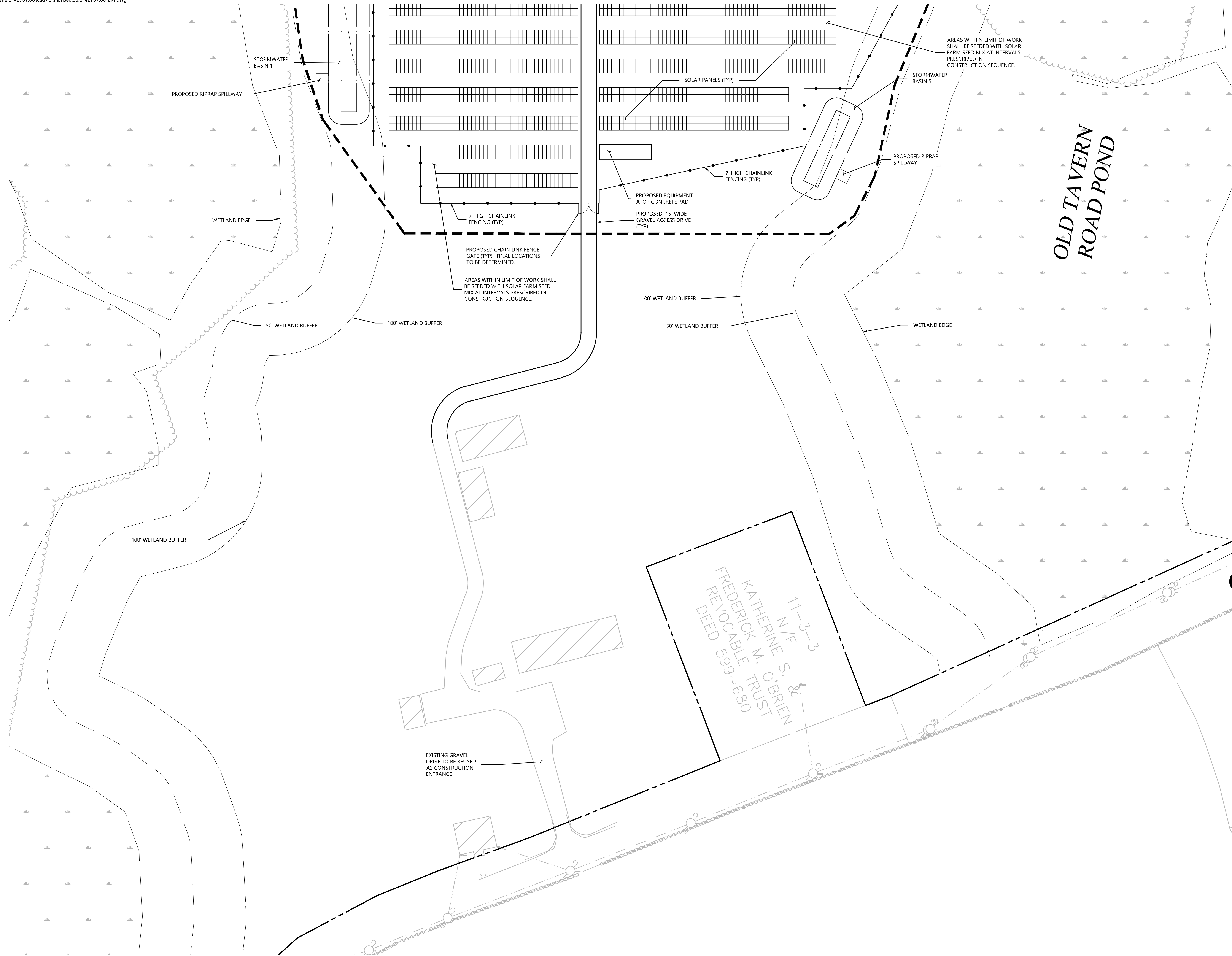




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Layout and  
Materials Plan 2

Drawing Number

**C-3.2**

Sheet 5 of 13

Project Number  
42707.00

11-3-3  
N/F  
KATHERINE S. &  
FREDERICK M. O'BRIEN  
REVOCABLE TRUST  
DEED 599~680

EXISTING GRAVEL  
DRIVE TO BE REUSED  
AS CONSTRUCTION  
ENTRANCE

AREAS WITHIN LIMIT OF WORK  
SHALL BE SEEDED WITH SOLAR  
FARM SEED MIX AT INTERVALS  
PRESCRIBED IN  
CONSTRUCTION SEQUENCE.

AREAS WITHIN LIMIT OF WORK SHALL  
BE SEEDED WITH SOLAR FARM SEED  
MIX AT INTERVALS PRESCRIBED IN  
CONSTRUCTION SEQUENCE.

100' WETLAND BUFFER

50' WETLAND BUFFER

WETLAND EDGE

100' WETLAND BUFFER

50' WETLAND BUFFER

100' WETLAND BUFFER

WETLAND EDGE

PROPOSED RIPRAP SPILLWAY

STORMWATER  
BASIN 1

STORMWATER  
BASIN 5

PROPOSED RIPRAP  
SPILLWAY

7' HIGH CHAINLINK  
FENCING (TYP)

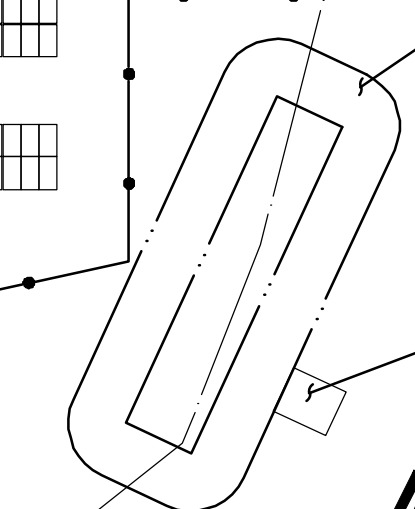
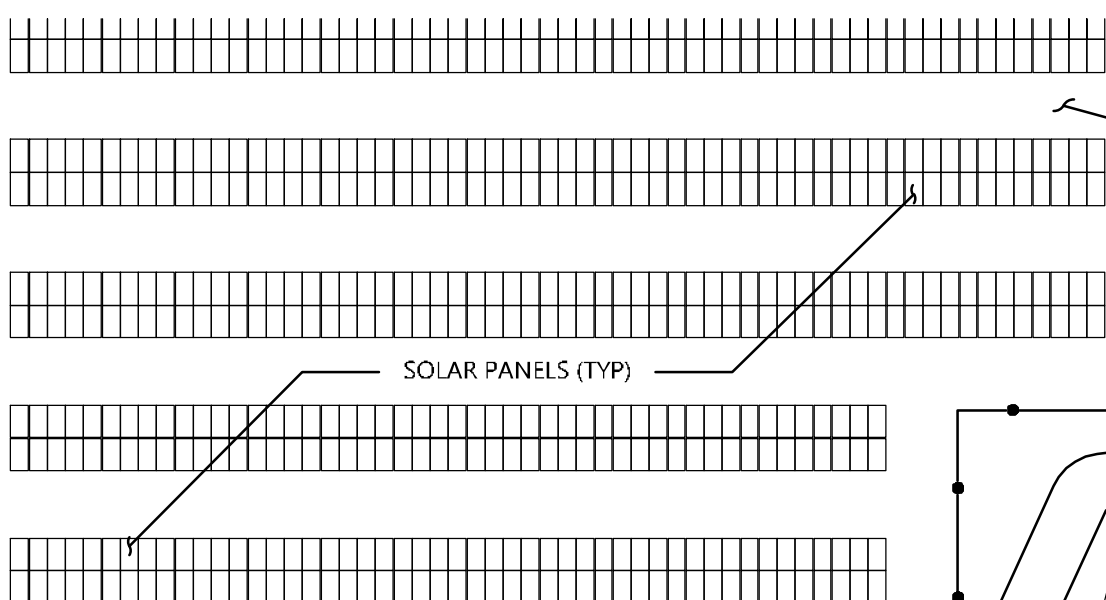
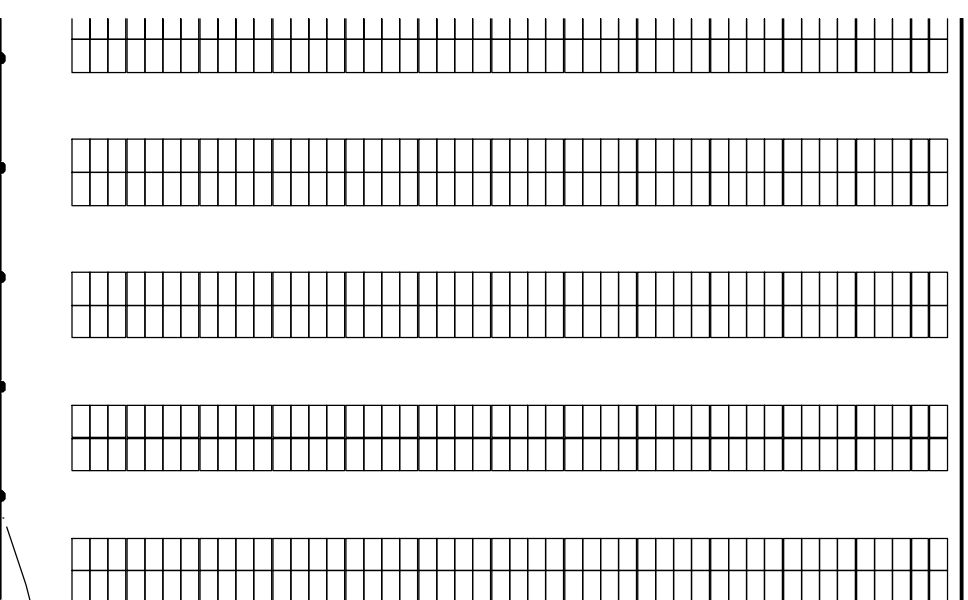
PROPOSED EQUIPMENT  
ATOP CONCRETE PAD

PROPOSED 15' WIDE  
GRAVEL ACCESS DRIVE  
(TYP)

7' HIGH CHAINLINK  
FENCING (TYP)

PROPOSED CHAIN LINK FENCE  
GATE (TYP). FINAL LOCATIONS  
TO BE DETERMINED.

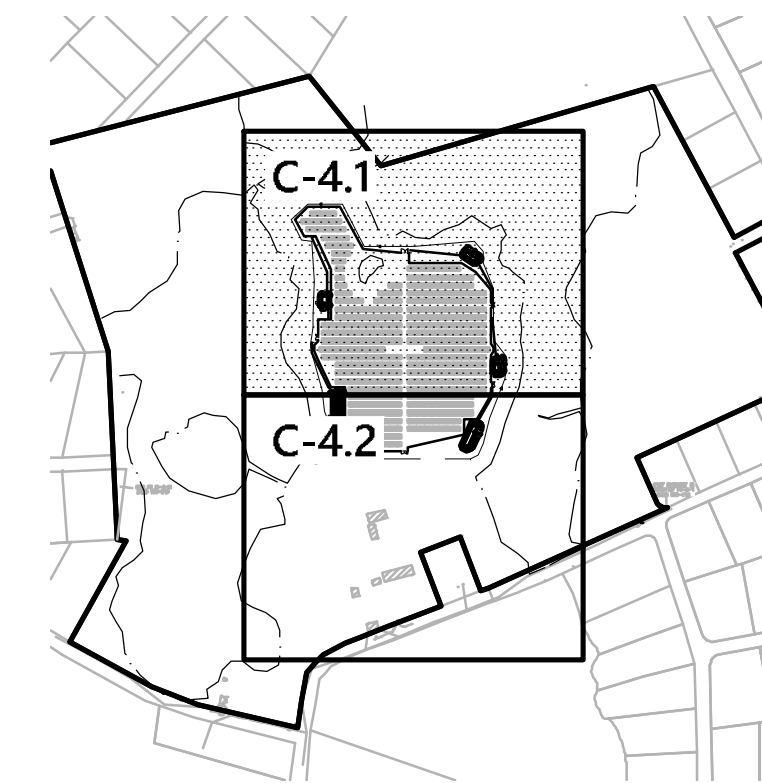
SOLAR PANELS (TYP)



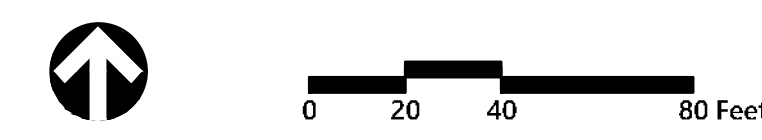
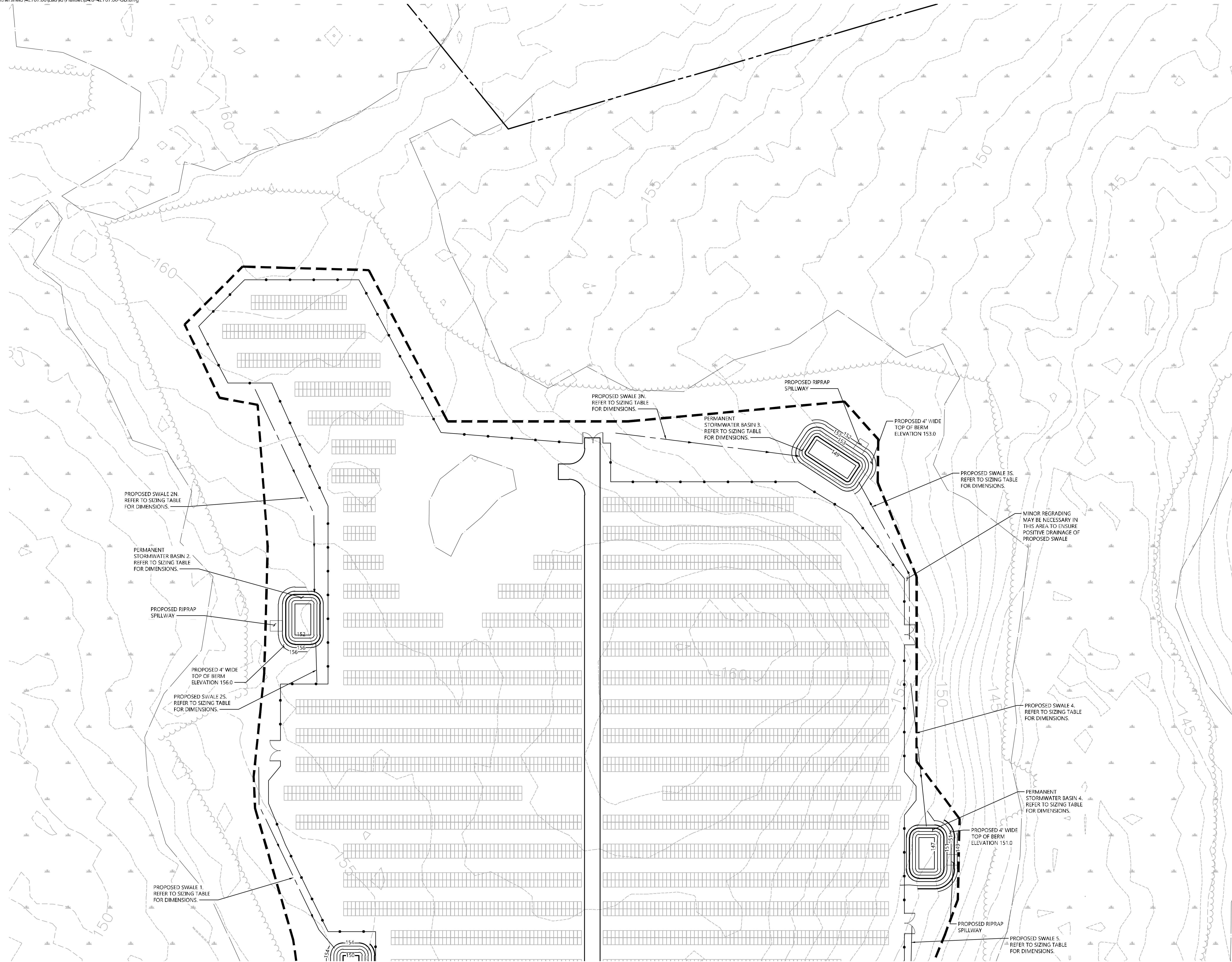








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**Grading and Drainage Plan 1**

Drawing Number

**C-4.1**

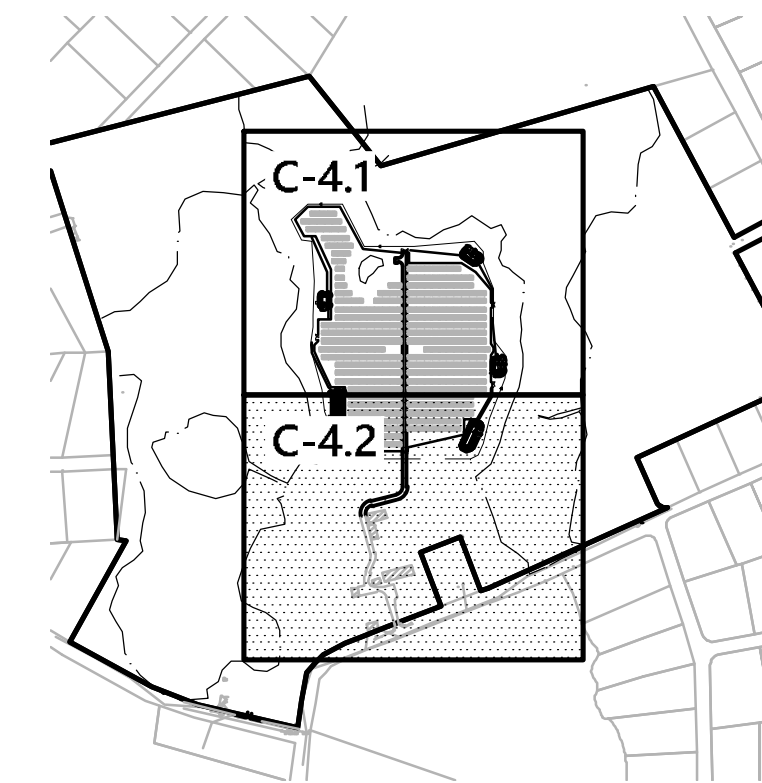
Sheet 7 of 13

Project Number  
42707.00

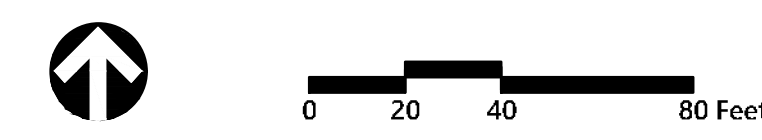




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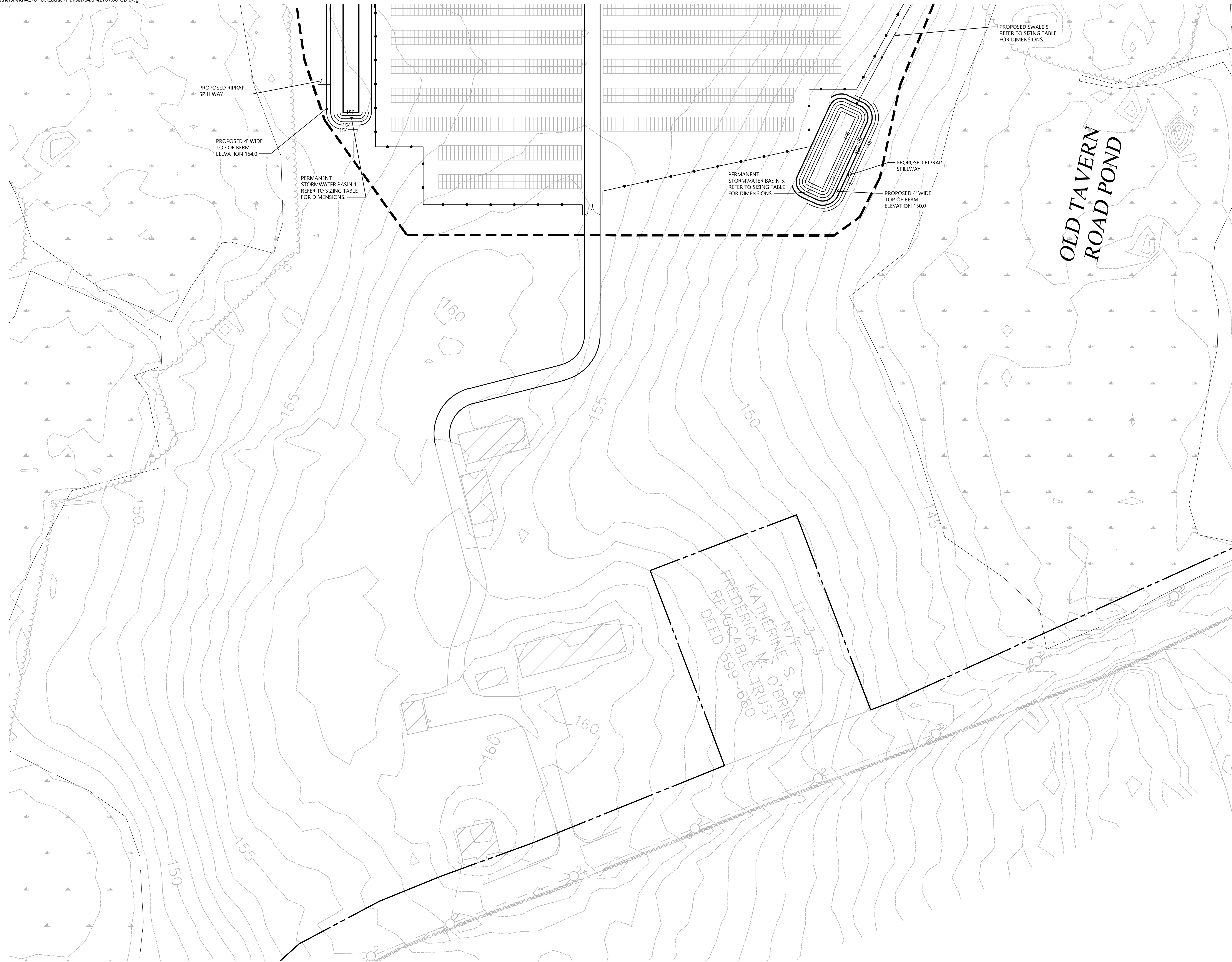
Grading and  
Drainage Plan 2

Drawing Number

**C-4.2**

Sheet 8 of 13

Project Number  
42707.00





### CONSTRUCTION SEQUENCING

- ALL CONSTRUCTION ACTIVITIES ARE EXPECTED TO BEGIN IN THE SPRING OF 2022 AND BE COMPLETED BY THE END OF 2022. THE GENERAL CONSTRUCTION NOTES ARE AS FOLLOWS:
1. THE SITE CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT ROADS/HIGHWAYS AND THEIR DRAINAGE SYSTEM, NEIGHBORING PROPERTIES, WETLANDS AND REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT. DESIGNATED ACCESS DRIVES MUST BE USED TO THE MAXIMUM EXTENTS POSSIBLE. IT IS REQUIRED THAT THE SITE CONTRACTOR PERFORM A DAILY INSPECTION OF ALL EROSION AND SEDIMENT CONTROL MEASURES EMPLOYED AT THE SITE.
  2. A CTDEEP-APPROVED QUALIFIED INSPECTOR SHALL BE ASSIGNED TO BE RESPONSIBLE FOR PERFORMING INSPECTIONS AND PREPARING REPORTS IN ACCORDANCE WITH SECTION 5(B)(4)(B) OF THE CONSTRUCTION GENERAL PERMIT. THESE INSPECTIONS SHALL TAKE PLACE WEEKLY, AT A MINIMUM, AND SHALL BE REQUIRED WITHIN 24 HOURS OF A RAINFALL EVENT EXCEEDING 0.5 INCHES. THE ENGINEER OF RECORD SHALL BE REQUIRED TO REVIEW AND COUNTER-SIGN THE PREPARED WEEKLY REPORTS. IT IS ALSO ANTICIPATED THAT REPRESENTATIVES FROM CTDEEP AND/OR THE STATE CONSERVATION DISTRICT WILL PERFORM PERIODIC INSPECTIONS.
  3. ENGINEER OF RECORD WILL PERFORM MONTHLY PLAN IMPLEMENTATION INSPECTIONS AND PREPARE REPORTS OF THE FINDINGS. THESE INSPECTIONS SHALL LAST A MINIMUM OF THREE (3) MONTHS OR UNTIL THE COMPLETION AND STABILIZATION OF ALL EROSION CONTROL MEASURES AT THE SITE.
  4. THROUGHOUT THE COURSE OF THE CONSTRUCTION PROJECT, ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE WARRANTED AT THE DISCRETION OF THE QUALIFIED INSPECTOR AND/OR DESIGN ENGINEER. THESE IMPROVEMENTS MUST BE IMPLEMENTED IN A TIMELY FASHION IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONSTRUCTION GENERAL PERMIT. ADDITIONALLY, AREAS OF PROPOSED COMPACTED NATIVE SOIL ROADS SHALL BE COVERED TO STABLE GRAVEL ROADS IF/AS DETERMINED BY THE QUALIFIED INSPECTOR OR ENGINEER OF RECORD.
  5. PRIOR TO CONSTRUCTION, THE APPLICANT SHALL PROVIDE THE TOWN OF ORANGE WITH THE NAME OF CONTACT AND 24-HOUR CONTACT INFORMATION.
  6. CONTRACTOR SHALL ADHERE TO 2002 CONNECTICUT GUIDELINES FOR EROSION AND SEDIMENT CONTROL, AS AMENDED.
  7. THE CONTRACTOR SHALL HOLD PRE-CONSTRUCTION MEETINGS(S). ATTENDEES SHALL INCLUDE, BUT NOT BE LIMITED TO, REPRESENTATIVES OF THE GENERAL CONTRACTOR, SITE CONTRACTOR, CTDEEP, TOWN OF ORANGE, ENGINEER OF RECORD, AND QUALIFIED SWPPP INSPECTOR.
  8. THE CONTRACTOR SHALL CONTACT CALL-BEFORE-YOU-DIG (1-800-922-4455) PRIOR TO ENGAGING IN ANY EXCAVATION ACTIVITIES AT THE SITE.
  9. THE CONTRACTOR SHALL NOTIFY THE TOWN OF ORANGE AGENT, ZONING ENFORCEMENT OFFICER, AND ENGINEERING DEPARTMENT, 48 HOURS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY.
  10. NO CONSTRUCTION OF SITE IMPROVEMENTS MAY BEGIN UNTIL THE PROPER EROSION CONTROL MEASURES SERVING THE AREA TO BE DISTURBED ARE IN PLACE.
  11. ANTICIPATED WORK HOURS WILL BE BETWEEN 6:30 AM AND 5:00 PM.
  12. ANY DEWATERING BY PUMP SHALL INCLUDE AN INTAKE AND/OR DISCHARGE FILTRATION SYSTEM (I.E. DIRTBAG SYSTEM) AND BE PUMPED TO STABLE GROUND. CONTRACTOR TO ENSURE DISCHARGED WATER IS RUNNING CLEAN OR ALTERNIOR METHODS MUST BE EMPLOYED.

#### PRE-CONSTRUCTION SITE PROTECTION SEQUENCE

1. ACCESS ROADS SHALL BE DESIGNATED AS EARLY AS FEASIBLE AND USED PRIMARILY FOR CONSTRUCTION TRAFFIC.
2. INSTALL EROSION AND SEDIMENT CONTROLS FOLLOWING THE CT GUIDELINES AND MANUFACTURER'S DIRECTIONS. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES AS REQUIRED BY THE ENGINEER OF RECORD OR QUALIFIED INSPECTOR, TO PREVENT SEDIMENT-LADEN RUNOFF FROM REACHING WETLANDS OR DISCHARGING OFFSITE.
3. INSTALL STORM WATER BASIN/SEDIMENT TRAPS AND CONVEYANCE SWALES IN ACCORDANCE WITH THE APPROVED SITE-SPECIFIC SWPCP AND CT GUIDELINES. THE ENGINEER OF RECORD SHALL INSPECT FEATURES TO CONFIRM REQUIRED STORAGE CAPACITIES ARE PROVIDED AND THAT OUTLETS AND/OR SPILLWAYS ARE CONSTRUCTED CORRECTLY. DISCHARGE AREAS BELOW OUTFALLS MUST BE INSPECTED TO CONFIRM FLOW WILL BE OVER STABLE GROUND AND SHEET FLOW IS ENCOURAGED. IF DISTURBED SOILS ARE PRESENT, THE ENGINEER OF RECORD TO PROVIDE CORRECT MEASURES TO ADDRESS CONDITION.
4. SEED AND PROTECT DISTURBED SOILS AROUND SEDIMENT TRAPS AND BASINS WITHIN 14 DAYS OF COMPLETION. SECURE SEED WITH A THERMALLY-TREATED BFM APPLIED FOLLOWING MANUFACTURER'S SPECIFICATIONS FOR USE AT SPECIFIED APPLICATION RATES. AN ANIONIC POLYACRYLAMIDE PRODUCT MAY BE INCLUDED WITH THE TACKIFIER TO PROMOTE SOIL STABILITY. ALL OTHER AMENDMENTS SHOULD BE PRESCRIBED BASED ON THE RESULT OF SOIL TESTS.
5. PERFORM MASS EARTHWORK ON THE SITE. MASS EARTHWORK SHALL ONLY MEAN REGRADING TO MEET THE PROPOSED GRADING DEPICTED ON THE PLANS. TOPSOIL SHALL BE STRIPPED AND STOCKPILED FROM AREAS PROPOSED FOR REGRADING. EXCESS SOIL WHICH IS NOT REUSED IN PROPOSED SITE GRADING AS DEPICTED ON PLANS SHALL BE HANDLED PER THE OWNER. TOPSOIL SHALL BE REPLACED TO A MINIMUM DEPTH OF 6" OVER REGRADED AREAS UPON COMPLETION OF MASS EARTHWORK ACTIVITIES AND AREAS WHICH WERE DISTURBED BY MASS EARTHWORK OPERATIONS SHALL BE RESEED WITHIN 14 DAYS OF COMPLETION.
7. THROUGHOUT CONSTRUCTION, THE CONTRACTOR SHALL ADDRESS ONGOING EROSION PROBLEMS USING TEMPORARY DIVERSIONS AND FILLING AND GRADING GULLIES. TRACK GULLIES UP AND DOWN SLOPE AND HYDROSEED WITH A THERMALLY-TREATED WOOD BONDED FIBER MATRIX (BFM) MULCH WITH TACKIFIER. A STABLE BIODEGRADABLE EROSION CONTROL BLANKET WITHOUT MONOFILAMENT MESH IS AN ACCEPTABLE ALTERNATIVE FOR HYDROSEED AND BFM.
8. UPON COMPLETION OF THIS CONSTRUCTION PHASE, ALL DISTURBED AREAS SHALL BE SEEDED WITH TACKIFIER AND CONSTRUCTION SEQUENCE MAY ONLY BEGIN IN AREAS DISPLAYING ADEQUATE VEGETATION WITHIN PROPOSED ARRAY AREA.

#### CONSTRUCTION SEQUENCE

1. INSTALL PILES AND/OR GROUND SCREWS FOR SOLAR PANEL RACKING.
2. THE INSTALLATION OF RACKING SHALL FOLLOW THE FOUNDATION INSTALLATION BY ROUGHLY ONE WEEK STARTING FROM THE SAME POINT.
3. RESEED AND REGRADE ALL AREAS DISTURBED BY CONSTRUCTION TRAFFIC WITHIN THE ARRAYS WHERE RACKS ARE INSTALLED AS EARLY AS POSSIBLE. RUTS AND RILLS SHALL BE SMOOTHED AND GRADED AS DISCOVERED.
4. INSTALL SOLAR PANEL MODULES IN THE RACKING. MUCH OF THIS WORK IS ANTICIPATED TO BE PERFORMED BY HAND AND LIGHT CONSTRUCTION EQUIPMENT WHICH WILL CAUSE MINIMAL DISTURBANCE COMPARED TO THE USE OF HEAVY EQUIPMENT. DESIGNATED ACCESS ROADS SHALL STILL BE USED TO THE MAXIMUM EXTENTS POSSIBLE.
5. UPON COMPLETION OF CONSTRUCTION, RE-SEED ALL DISTURBED AREAS WITHIN 14 DAYS AND PREVENT VEHICULAR TRAFFICKING OVER THESE AREAS. INSTALL FINAL LANDSCAPING.
6. AFTER SITE IS STABILIZED, AND AFTER INSPECTION BY DESIGN ENGINEER, OR OTHER OWNER'S REPRESENTATIVE, REMOVE TEMPORARY EROSION AND SEDIMENT CONTROLS. ENTIRE SITE SHALL BE CHECKED FOR AND CLEANED OF SEDIMENT AS NEEDED.

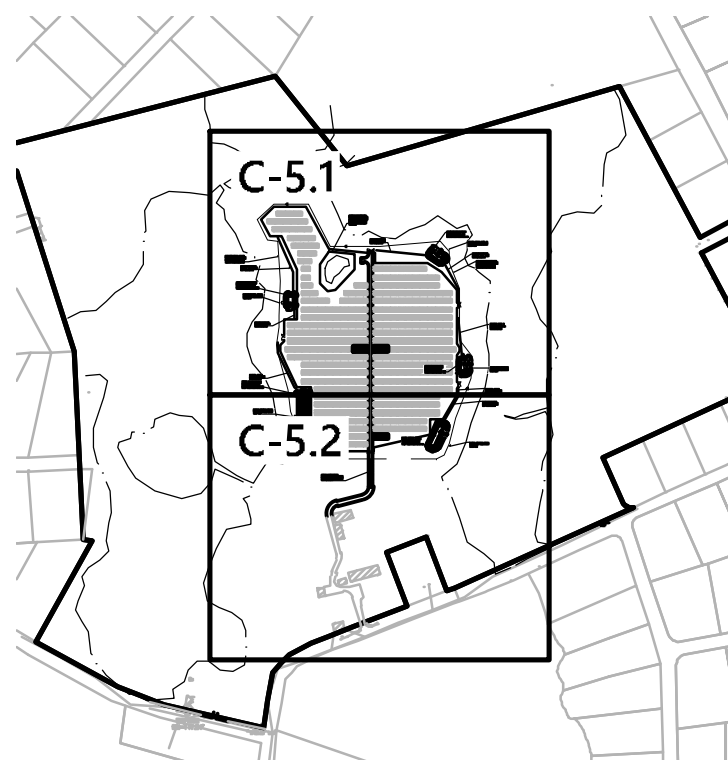
### WILDLIFE PROTECTION

IT IS ANTICIPATED THAT THE PRESENCE OF EASTERN BOX TURTLES, WOOD TURTLES, OR BROWN THRASHERS MAY BE LIKELY AT THE SITE IN ACCORDANCE WITH CONSULTATION WITH CTDEEP WILDLIFE DIVISION. THE CONSTRUCTION TEAM SHALL EMPLOY THE FOLLOWING RECOMMENDED PROTECTION STRATEGIES TO HELP ENSURE THE SURVIVABILITY OF TURTLES AT THE PROJECT AREA:

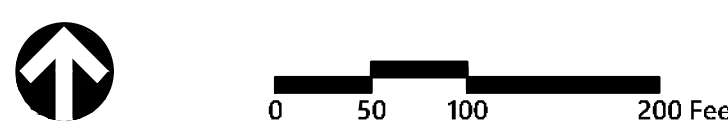
1. A 20 INCH TALL MINIMUM WILDLIFE EXCLUSIONARY BARRIER (I.E. NON-NETTED SILT FENCE) SHALL BE REGULARLY MAINTAINED AROUND THE ENTIRE LIMIT OF CONSTRUCTION TO DELINEATE AND PROTECT THE WORK AREA FROM TURTLES ENTERING IT.
2. CARE SHALL BE TAKEN AT ALL STAGING AND STORAGE AREAS OUTSIDE THE DELINEATED WORK ZONE TO REVIEW FOR THE PRESENCE OF EASTERN BOX TURTLES AND REMOVE THEM SAFELY, WHILE EXCLUDING THEM FROM RE-ENTRY TO THE AREA.
3. ALL CONSTRUCTION PERSONNEL SHALL BE APPRISED OF THE SPECIES DESCRIPTION AND INSTRUCTED TO RELOCATE TURTLES FOUND WITHIN WORK AREAS OR NOTIFY SOMEONE ELSE TO PERFORM THIS.
4. ALL SILT FENCE SHALL BE REMOVED ONCE THE PROJECT CONSTRUCTION IS COMPLETED.
5. THE CONTRACTOR SHALL SEARCH THE WORK AREA EACH MORNING PRIOR TO WORK BEING DONE.
6. LIMIT ANY EQUIPMENT USE WITHIN 50 FEET OF STREAMS AND BROOKS. GENERALLY, THE PROJECT DOES NOT PROPOSE ANY WORK WITHIN THIS BUFFER.
7. ANY CONFIRMED SIGHTINGS OF BOX, WOOD, OR SPOTTED TURTLES SHALL BE REPORTED AND DOCUMENTED WITH CTDEEP WILDLIFE DIVISION.



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Not Approved for Construction  
Drawing Title: **Erosion and Sediment Control Plan - Overall**

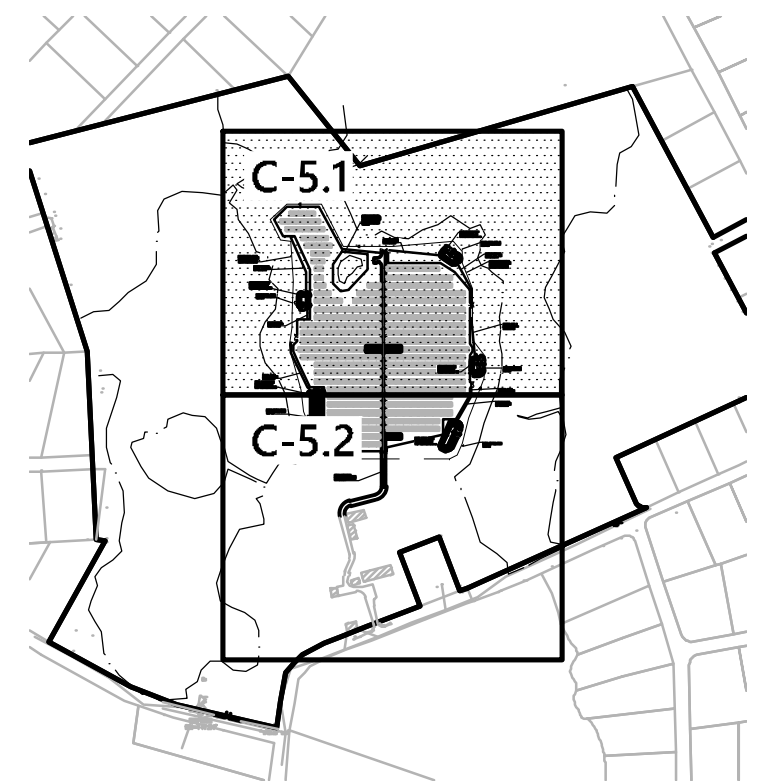
Drawing Number

# C-5.0

Sheet 9 of 13

Project Number: 42707.00





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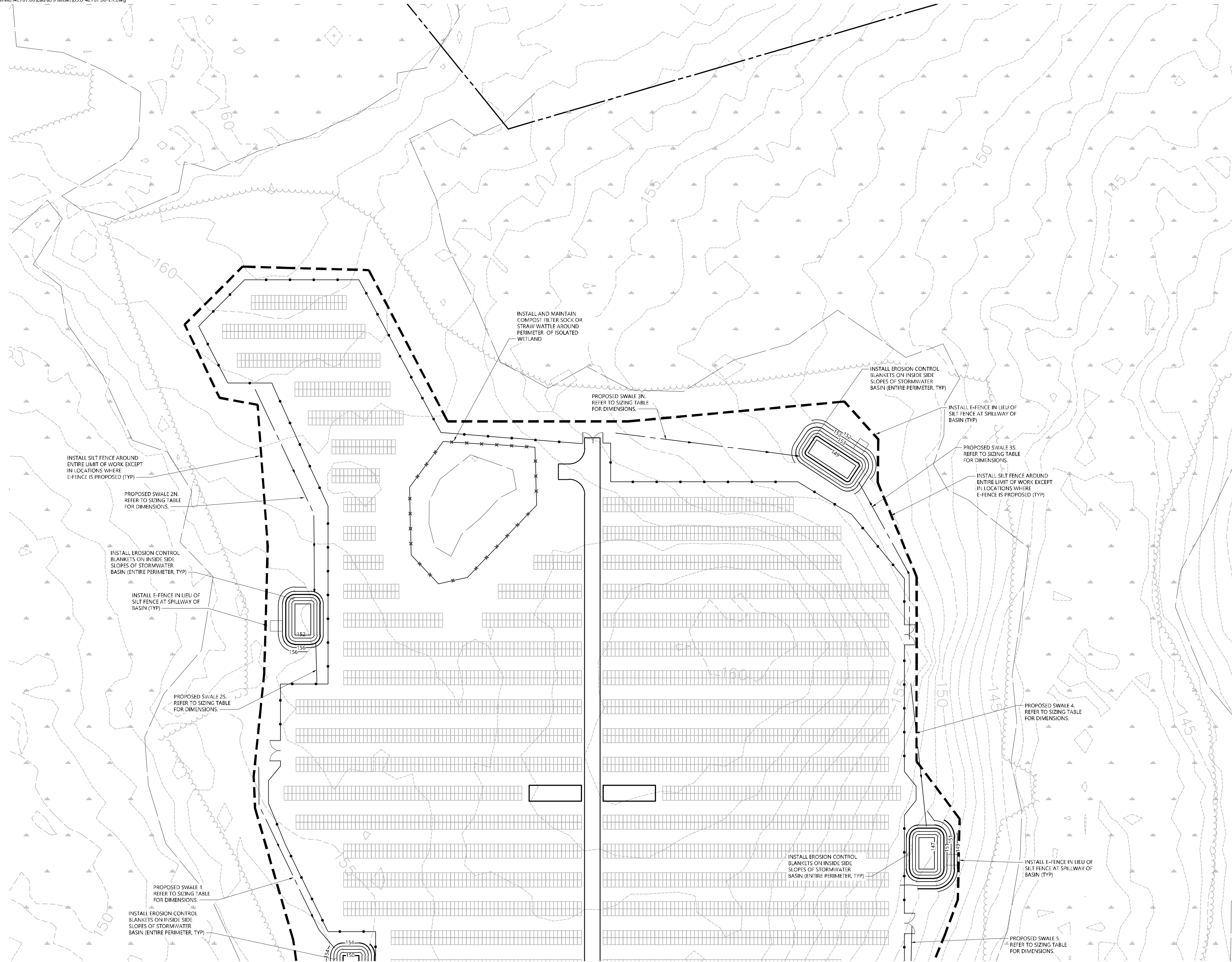
**Erosion and Sediment Control Plan 1**

Drawing Number

**C-5.1**

Sheet **10** of **13**

Project Number  
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INSTALL SILT FENCE AROUND ENTIRE LIMIT OF WORK EXCEPT IN LOCATIONS WHERE E-FENCE IS PROPOSED (TYP)

PROPOSED SWALE 2N. REFER TO SIZING TABLE FOR DIMENSIONS.

INSTALL EROSION CONTROL BLANKETS ON INSIDE SIDE SLOPES OF STORMWATER BASIN (ENTIRE PERIMETER, TYP)

INSTALL E-FENCE IN LIEU OF SILT FENCE AT SPILLWAY OF BASIN (TYP)

PROPOSED SWALE 2S. REFER TO SIZING TABLE FOR DIMENSIONS.

PROPOSED SWALE 1. REFER TO SIZING TABLE FOR DIMENSIONS.

INSTALL EROSION CONTROL BLANKETS ON INSIDE SIDE SLOPES OF STORMWATER BASIN (ENTIRE PERIMETER, TYP)

INSTALL AND MAINTAIN COMPOST FILTER SOCK OR STRAW WATTLE AROUND PERIMETER OF ISOLATED WETLAND

PROPOSED SWALE 3N. REFER TO SIZING TABLE FOR DIMENSIONS.

INSTALL EROSION CONTROL BLANKETS ON INSIDE SIDE SLOPES OF STORMWATER BASIN (ENTIRE PERIMETER, TYP)

INSTALL E-FENCE IN LIEU OF SILT FENCE AT SPILLWAY OF BASIN (TYP)

PROPOSED SWALE 3S. REFER TO SIZING TABLE FOR DIMENSIONS.

INSTALL SILT FENCE AROUND ENTIRE LIMIT OF WORK EXCEPT IN LOCATIONS WHERE E-FENCE IS PROPOSED (TYP)

PROPOSED SWALE 4. REFER TO SIZING TABLE FOR DIMENSIONS.

INSTALL EROSION CONTROL BLANKETS ON INSIDE SIDE SLOPES OF STORMWATER BASIN (ENTIRE PERIMETER, TYP)

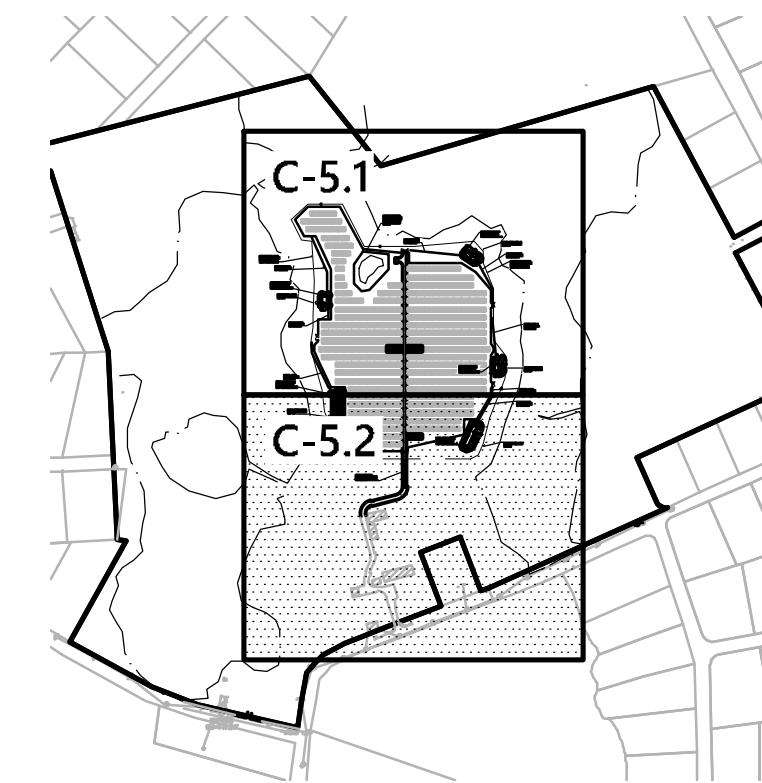
INSTALL E-FENCE IN LIEU OF SILT FENCE AT SPILLWAY OF BASIN (TYP)

PROPOSED SWALE 5. REFER TO SIZING TABLE FOR DIMENSIONS.

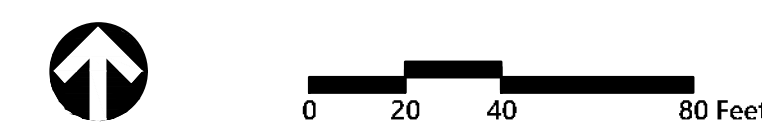
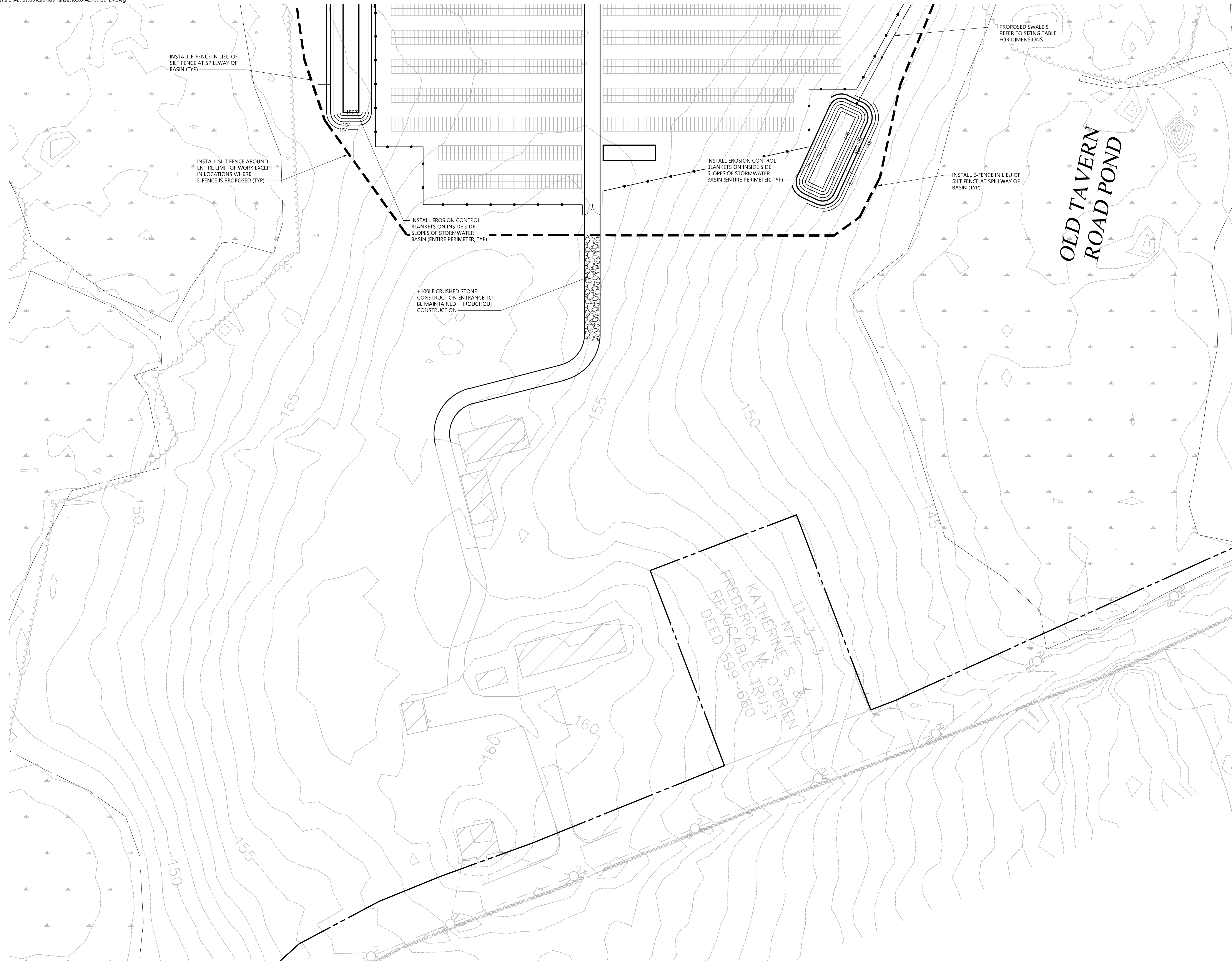




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**Erosion and Sediment Control Plan 2**

Drawing Number

**C-5.2**

Sheet of  
11 of 13

Project Number  
42707.00

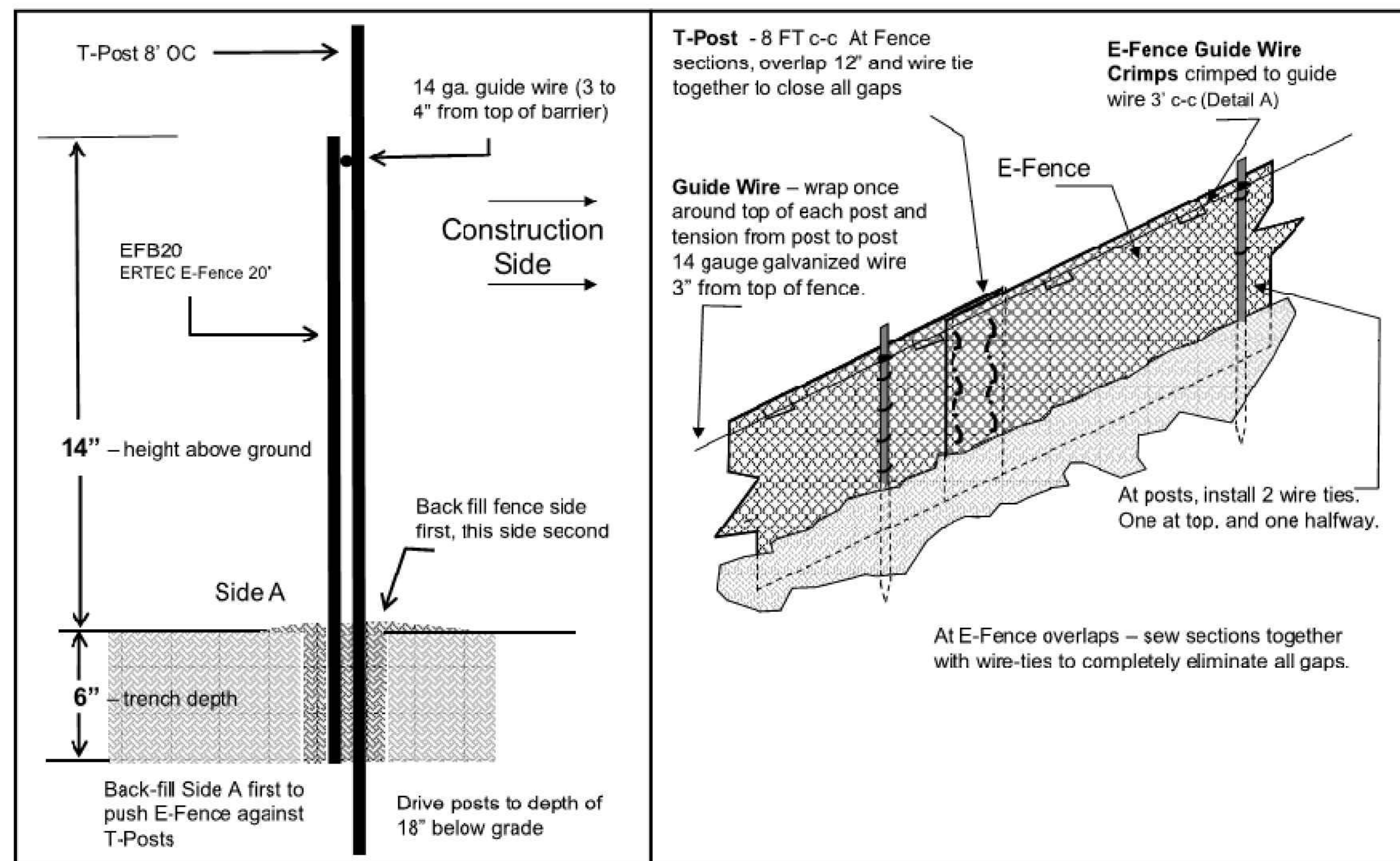




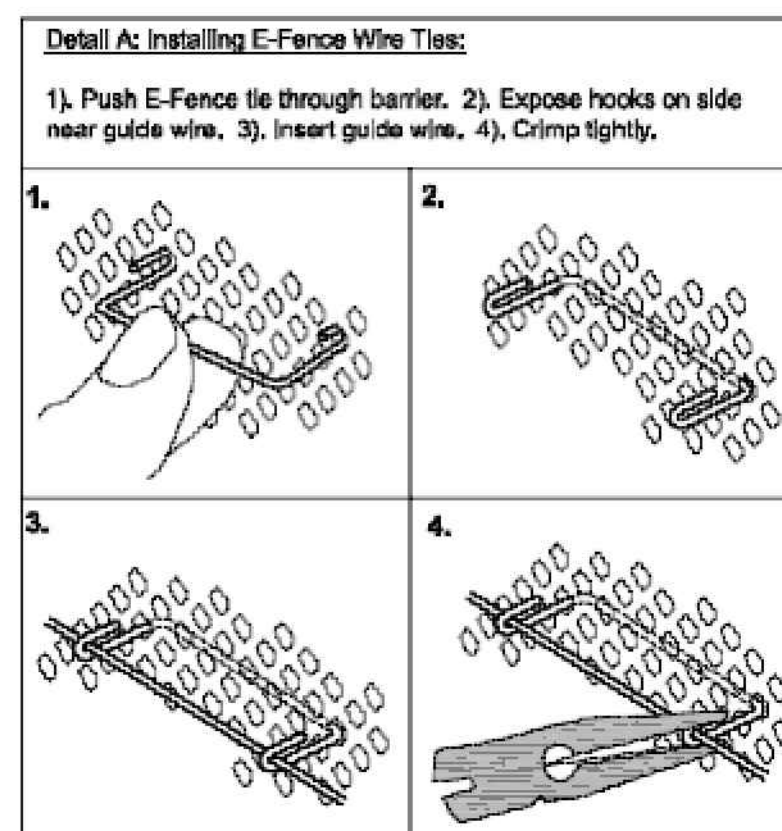
100 Great Meadow Road  
Suite 200  
Wethersfield, CT 06109  
860.807.4300

### E-Fence DETAILS – Wildlife Exclusion - WPT

E-Fence™ (Patent #US8402630, other patents pending)



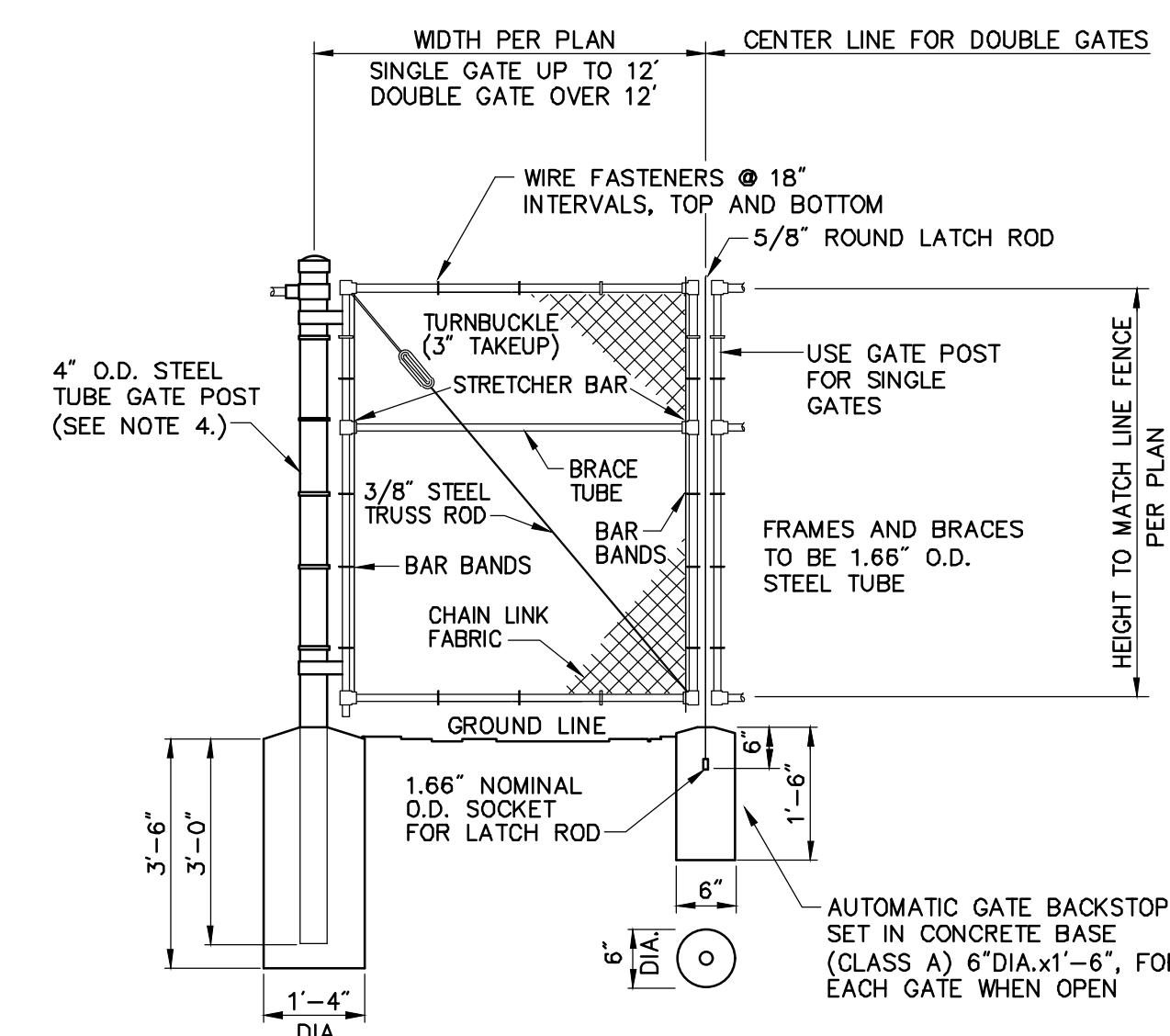
### E-Fence DETAILS – Guidewire Crimp



### E-Fence™ DETAILS – Wildlife Exclusion

#### Installation Notes:

- Excavate a trench a minimum of 4" wide and a minimum of 5" deep.
- T-posts shall be a minimum of 0.95 lbs/ft. T-posts shall be driven a minimum 18" deep into the ground 8" centers
- Insert barrier material into trench and attach to post in two places: 1) at 3" below top of fence and at 2) mid-height
- At 3 Inches from top of fence (above wire tie), wrap 14 gauge galvanized wire once around each T-post and pull the guide wire from post to post, wrap, secure and pull wire tight between each post.
- At segment overlaps (roll length 100 or 150 LF), overlap segments a minimum of 12". Eliminate all gaps by tying sections together with tie wire in two vertical rows, as shown.
- Push E-Fence Guide Wire Crimps through the E-Fence and crimp the ties to the guide wire on the other side of the fence (two crimps per tie) at 3' intervals, as illustrated in Detail A of the installation guidelines. Crimp to the guide-wire securely.
- E-Fence must be installed in continuous lengths (100 or 150 foot rolls). Do not cut segments into shorter lengths unless necessary due to sudden changes in elevation.
- Backfill trench with trench spoils. Backfill from E-Fence side of posts first so that E-Fence is pushed up against T-posts. Back fill other side to complete backfill.



#### Notes:

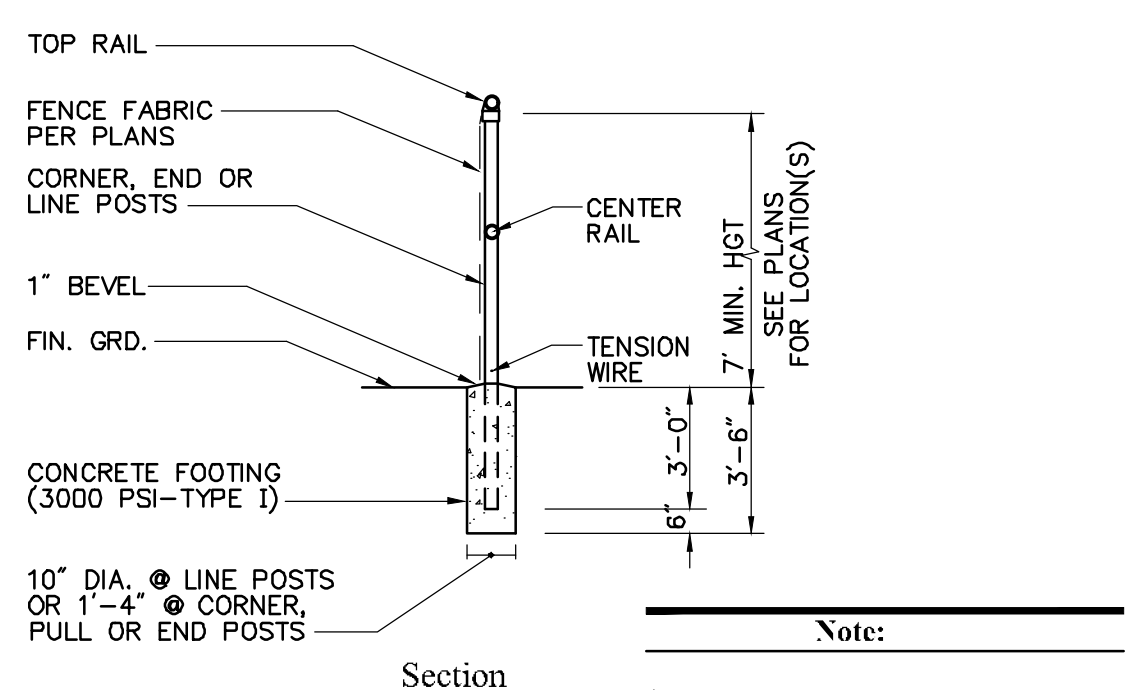
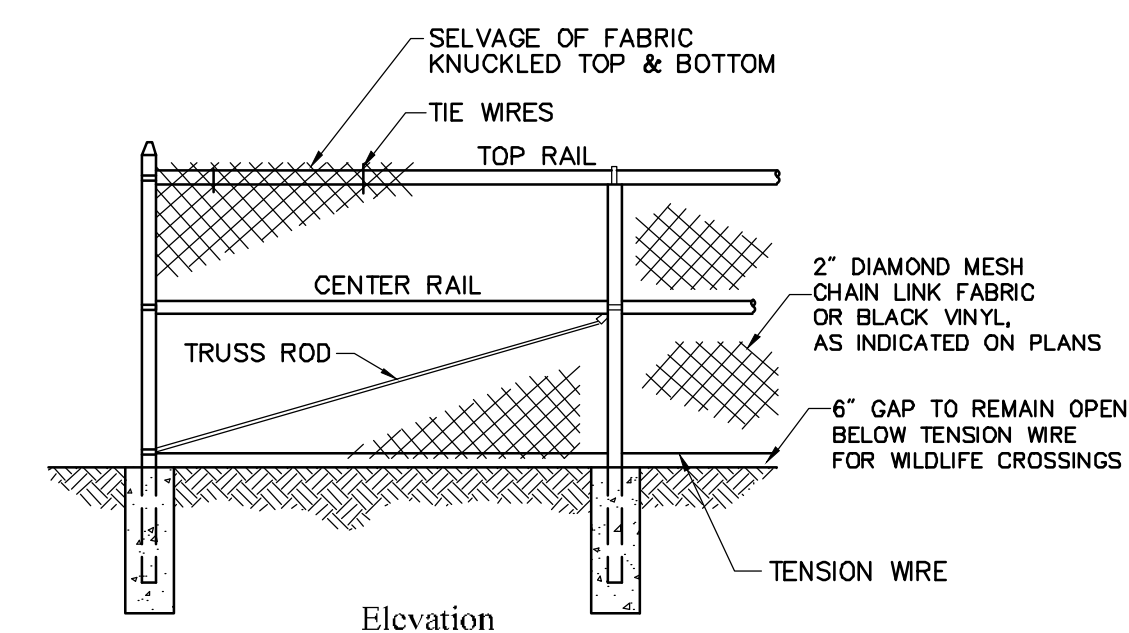
- CHAIN LINK FABRIC FOR GATES TO BE THE SAME AS REQUIRED FOR FENCE.
- GATE POST BASE—PORTLAND CEMENT CONCRETE (3000 PSI).
- FENCE FABRIC, POSTS, FRAMEWORKS, AND HARDWARE SHALL BE GALVANIZED STEEL OR BLACK VINYL (AS INDICATED ON PLANS) PER SPECIFICATIONS.
- GATE POSTS TO BE USED ON EACH SIDE OF SINGLE AND DOUBLE GATE OPENINGS.

### Chain Link Fence Gate

N.T.S. Source: VHB 6/08 LD\_482

### E-Fence Installation Details

N.T.S. Source: Ertec Environmental Systems



- Note:**
- MATERIALS TO BE SUPPLIED AND INSTALLED IN CONFORMANCE WITH "CHAIN LINK MANUFACTURER'S INSTITUTE" PRODUCT MANUAL.

### 7' Chain Link Fence

N.T.S. Source: VHB 6/08 LD\_480



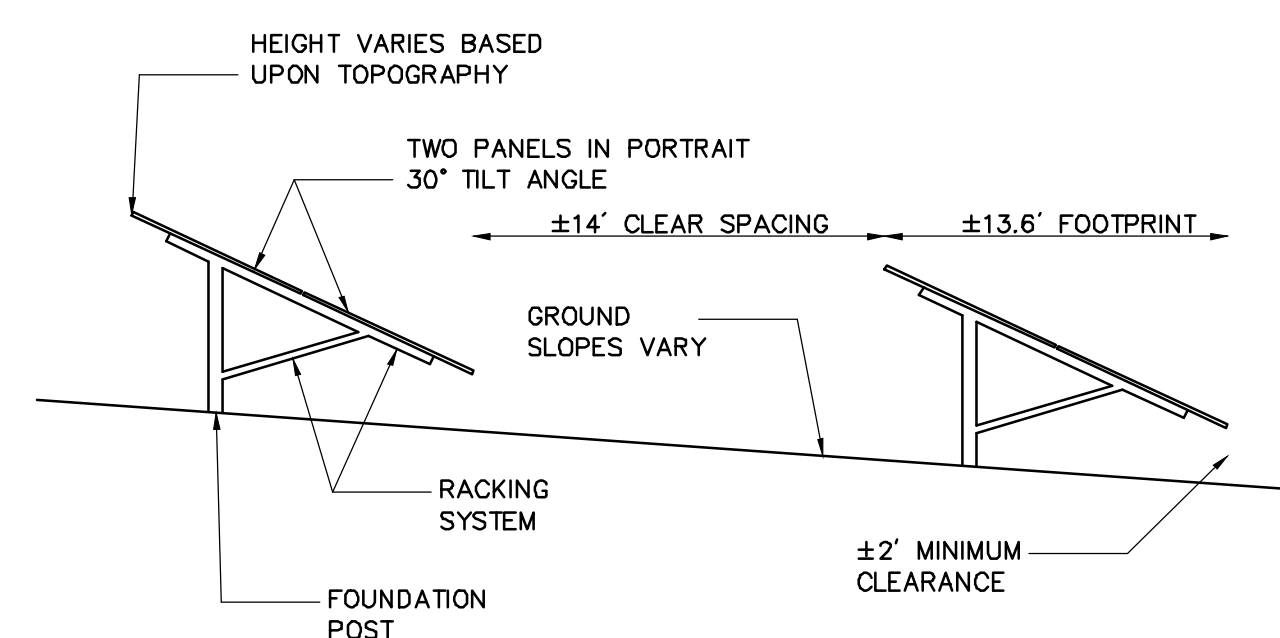
PHOTOVOLTAIC INSTALLATION  
 Site Location: 361 Old Tavern Road, Orange, CT 06477  
 Owner: Greenskies Clean Energy, LLC  
 Attn: Jean-Paul LaMarche  
 127 Washington Avenue, West Bldg, Lower Level  
 North Haven, CT 06473  
**IN CASE OF EMERGENCY CALL 911**  
**ORANGE POLICE DEPARTMENT - (203) 891-2130**

#### Notes:

- THE SITE FACILITY SIGN IS A DRAFT SHOWING THE MINIMUM AMOUNT OF INFORMATION THAT WILL BE PROVIDED. SIGN WILL BE 18" X 24".
- ALL SIGNS WILL BE MOUNTED ONTO THE CHAIN LINK FENCE.

### Danger and Site Facility Signs

N.T.S. Source: VHB 1/16



#### Notes:

- FINAL DETERMINATION OF PANEL TYPE, RACKING SYSTEM, AND FOUNDATION POSTS TO BE DETERMINED PENDING BEST AVAILABLE TECHNOLOGY AT TIME OF CONSTRUCTION AND STRUCTURAL GROUND TESTING.

### Cross Section of Fixed-Tilt Panel Array

N.T.S. Source: VHB 7/20

### Photovoltaic Installation

361 Old Tavern Road  
Orange, Connecticut

No. Revision Date Appvd

Designed by JDW Checked by SJK

Application September 29, 2021

Not Approved for Construction

Site Details 1

Drawing Number

C-6.1

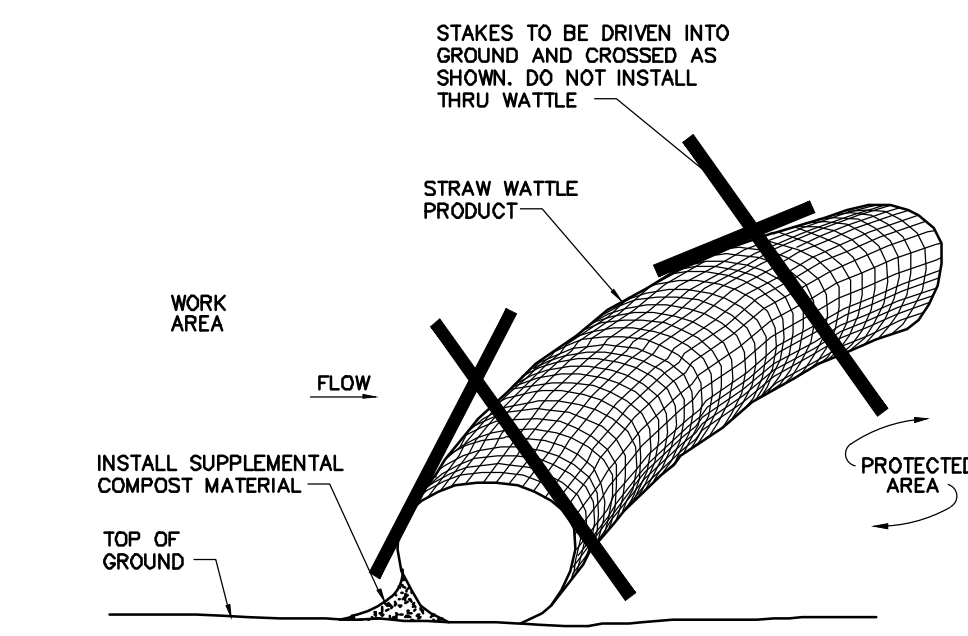
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Project Number 42707.00



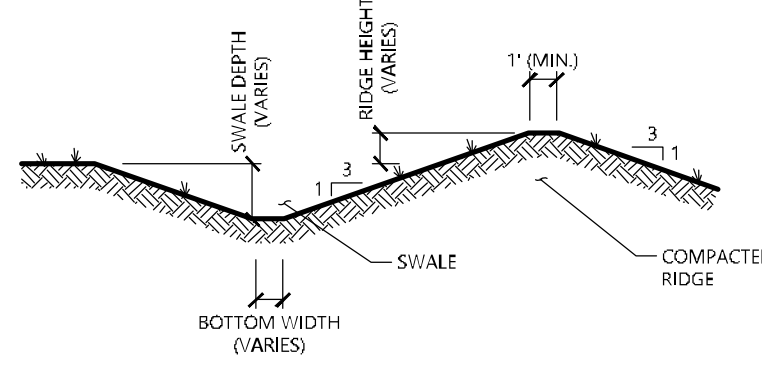


100 Great Meadow Road  
Suite 200  
Wethersfield, CT 06109  
860.807.4300



**Straw Wattle Installation**

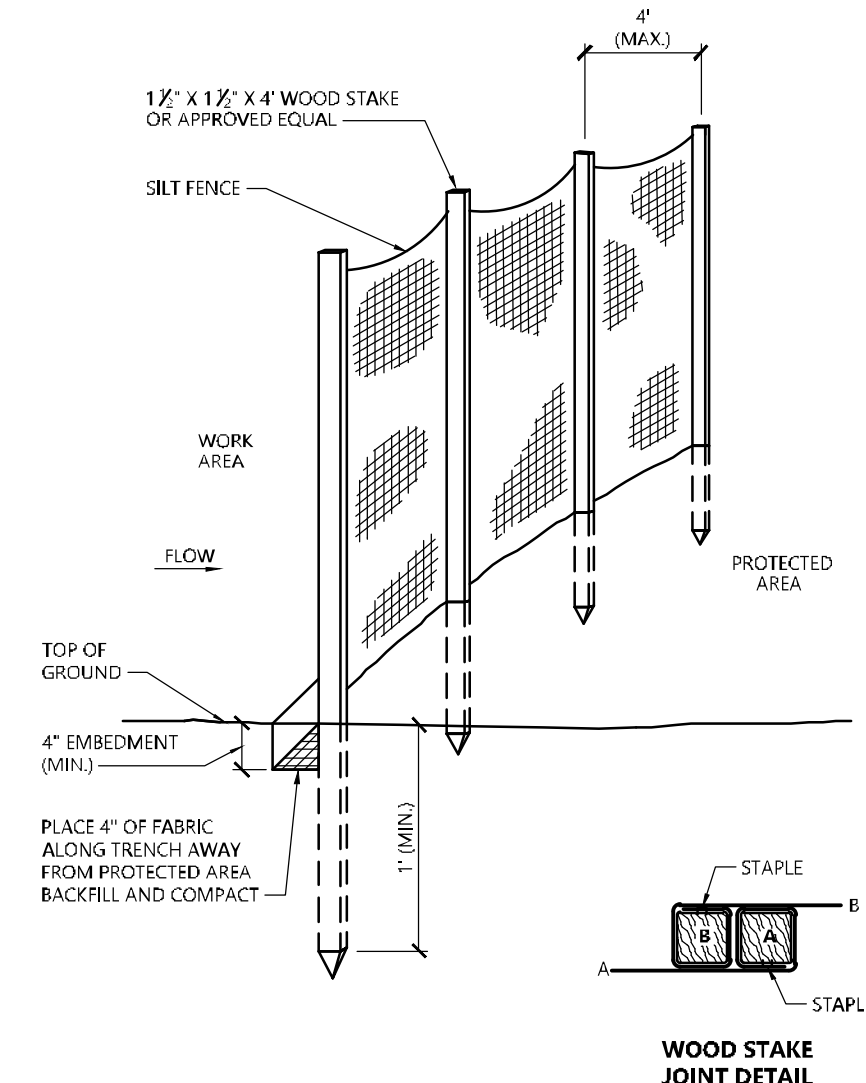
N.T.S. Source: VHB 8/12 LD\_658



NOTE:  
1. ALL SIDE SLOPES SHALL NOT EXCEED 3:1  
2. REFER TO "DIVERSION SWALE SIZING" TABLE FOR SELECTION OF LINING MATERIAL TO BE INSTALLED OVER ENTIRE SWALE AREA.  
3. REFER TO "DIVERSION SWALE SIZING" TABLE FOR VARIABLE SIZING.  
4. THE INTENT IS TO USE THE MATERIAL EXCAVATED FROM THE SWALE TO CONSTRUCT THE RIDGE.

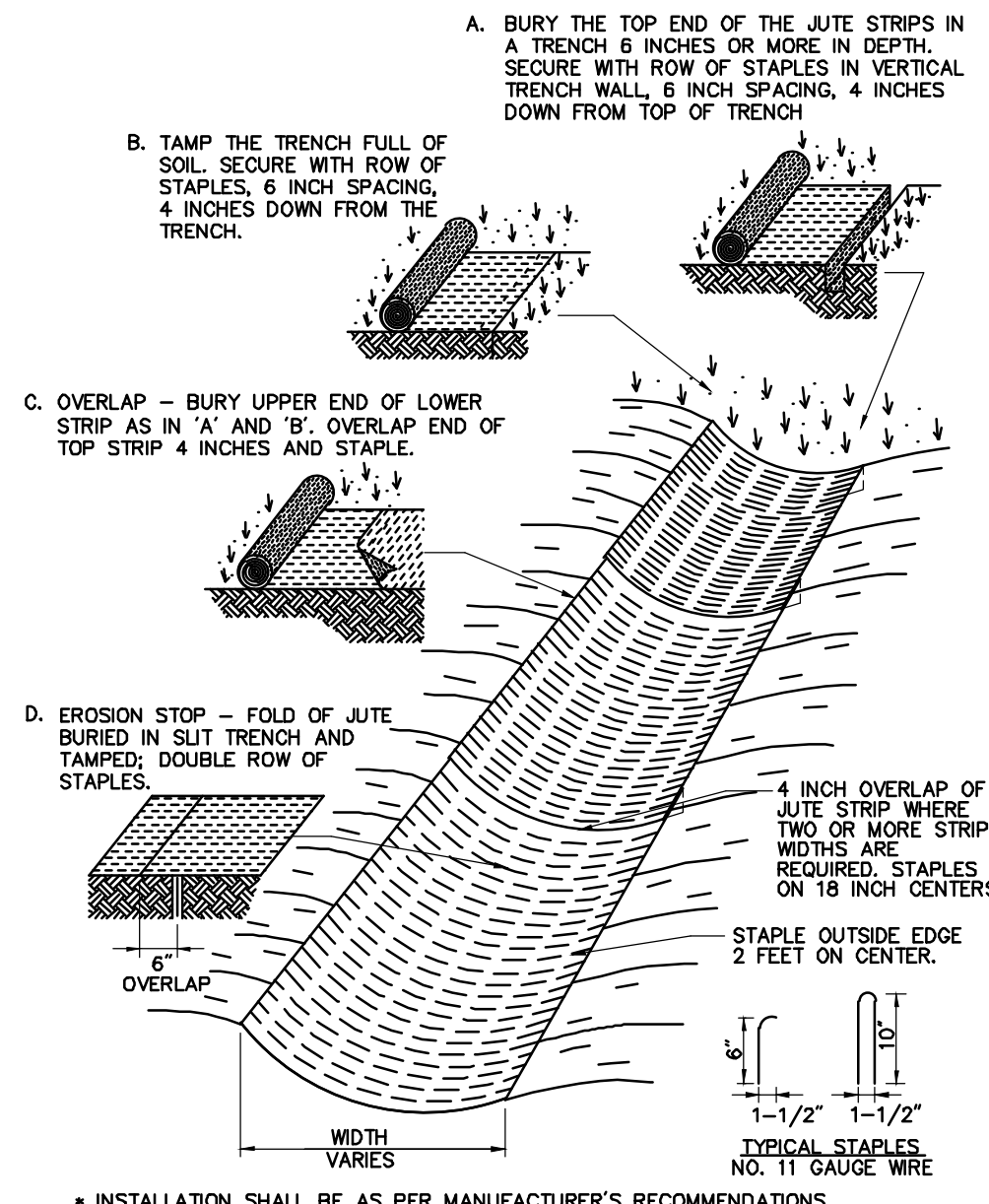
**Diversion Swale**

N.T.S. Source: VHB



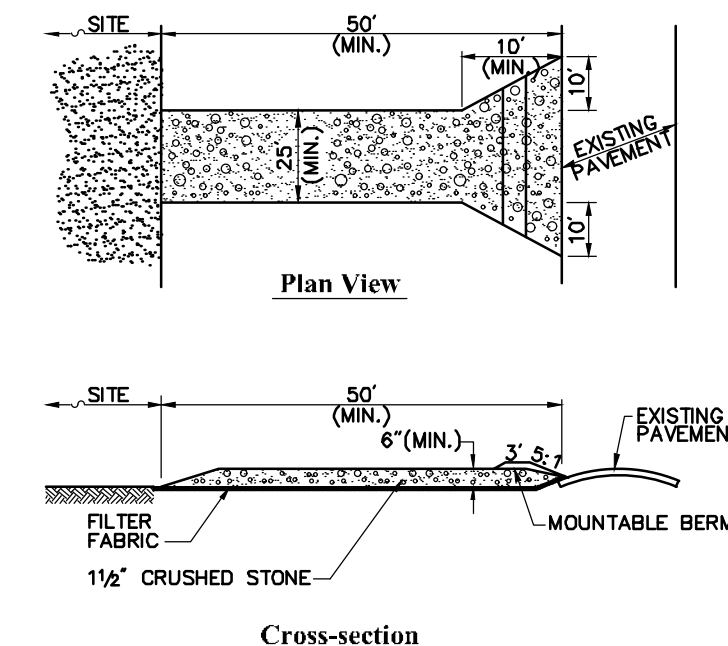
**Silt Fence Barrier**

N.T.S. Source: VHB 1/16 LD\_650



**Erosion Control Blanket (ECB) Swale Installation**

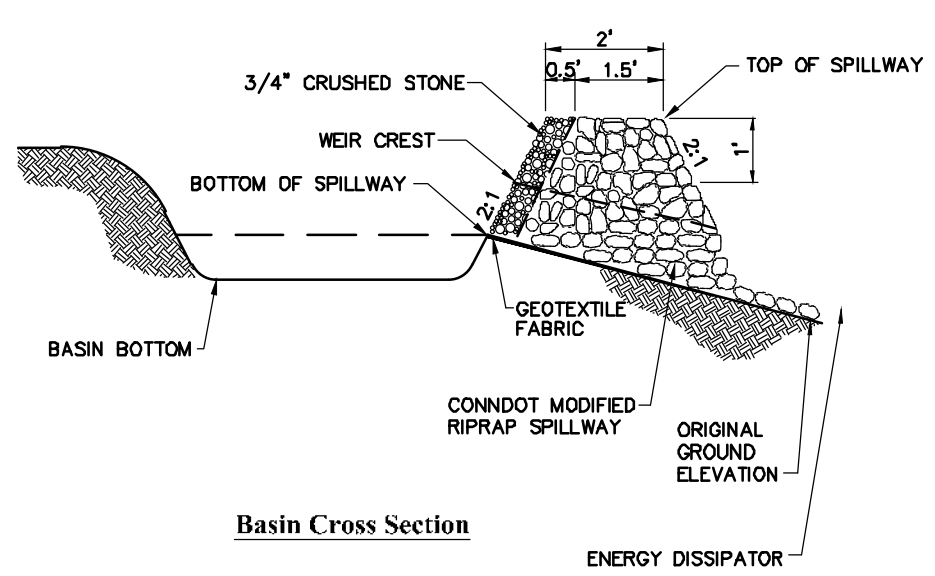
N.T.S. Source: VHB 6/08 LD\_681



- Notes:
- ENTRANCE WIDTH SHALL BE A TWENTY-FIVE (25) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
  - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. BERM SHALL BE PERMITTED. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.
  - STABILIZED CONSTRUCTION EXIT SHALL BE REMOVED PRIOR TO FINAL FINISH MATERIALS BEING INSTALLED.

**Stabilized Construction Exit**

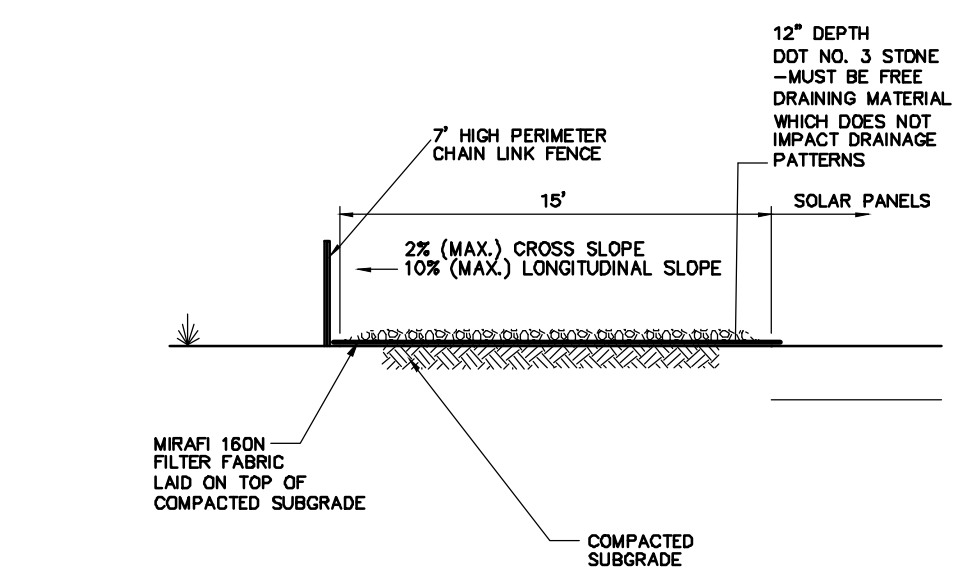
N.T.S. Source: VHB 6/08 LD\_682



NOTE:  
1. ALL SIDE SLOPES SHALL NOT EXCEED 3:1  
2. TOP OF EMBANKMENT SHALL BE 2\"/>

**Permanent Stormwater Basin**

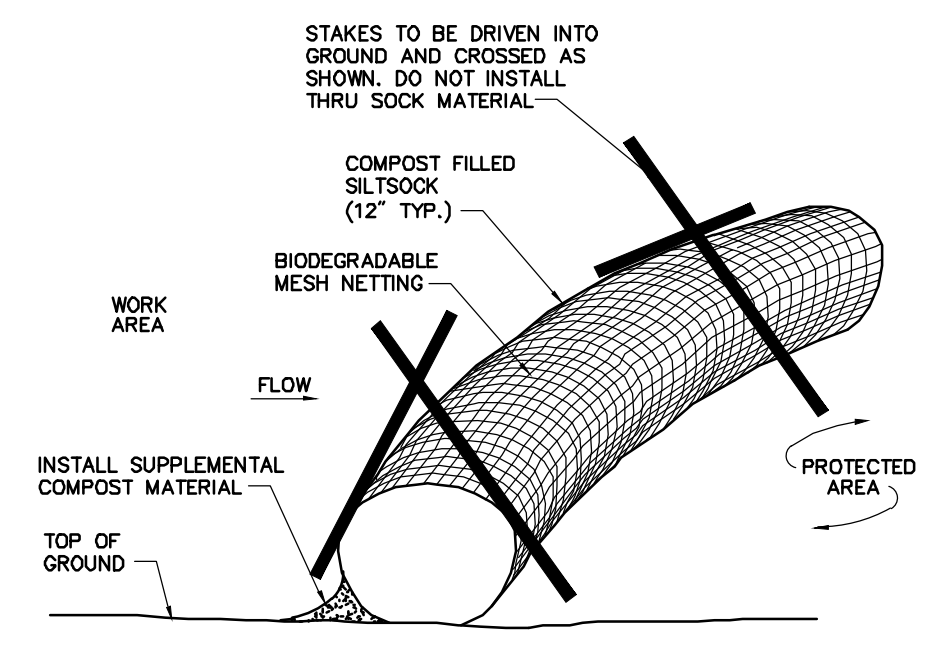
N.T.S. Source: VHB



- Notes:
- CRUSHED STONE SHALL BE IN ACCORDANCE WITH THE CURRENT VERSION OF THE CONNECTICUT DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION.

**Perimeter Access Cross Section**

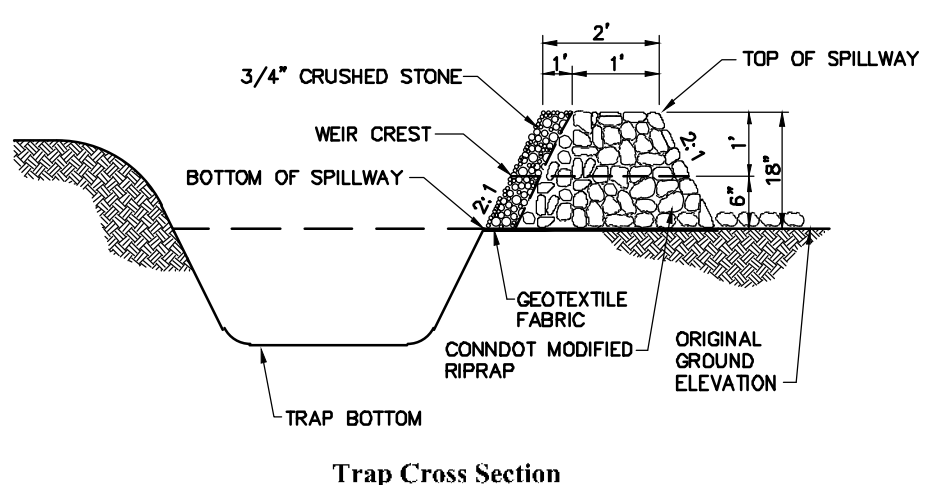
N.T.S. Source: VHB



- Notes:
- SILT SOCK SHALL BE 12\"/>

**Compost Filter Sock (CFS)**

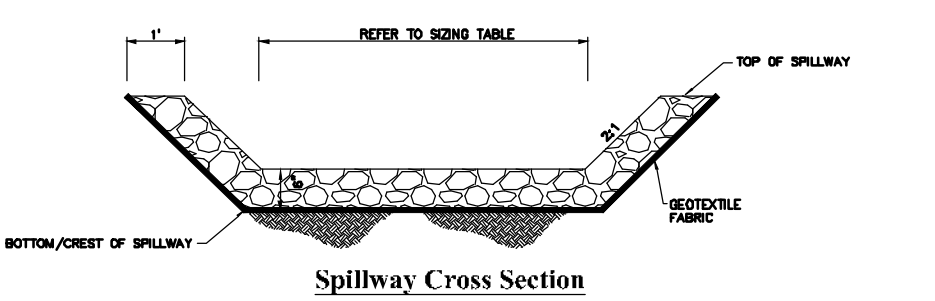
N.T.S. Source: VHB 8/12 LD\_658



NOTE:  
1. ALL SIDE SLOPES SHALL NOT EXCEED 3:1  
2. SIDE SLOPES OF EMBANKMENT SHALL BE STABILIZED BY TEMPORARY SEEDING OR EROSION CONTROL BLANKETS AS DIRECTED BY THE ENGINEER.  
3. TRAP SHALL BE DRAINED AND CLEANED OF SEDIMENT ONCE SEDIMENT IS > 1\"/>

**Sediment Trap (TST)**

N.T.S. Source: VHB



NOTE:  
1. ALL SIDE SLOPES SHALL NOT EXCEED 2:1  
2. TOP OF EMBANKMENT SHALL BE 2\"/>

**Stormwater Basin Spillway**

N.T.S. Source: VHB

PERMANENT STORMWATER BASIN SIZING								
NUMBER	Basin Type	Length at Basin Bottom (T/E of Slopes), FT	Width at Basin Bottom (T/E of Slopes), FT	Side Slopes	Bottom Elevation, FT	Elevation of Bottom/Crest of Spillway, FT	Spillway Width at Base, FT	Minimum Top of Berm Elevation, FT
1	PERMANENT	110	15	3:1	186.0	185.5	20	184.0
2	PERMANENT	30	15	3:1	195.0	195.5	10	196.0
3	PERMANENT	45	15	3:1	149.0	152.0	10	153.0
4	PERMANENT	30	15	3:1	147.0	149.5	10	151.0
5	PERMANENT	75	15	3:1	146.0	148.5	10	150.0

DIVERSION SWALE SIZING						
NAME	Approximate Tributary Area, AC	Approximate Length, FT	Bottom Width, FT	Side Slopes	Swale Depth, FT	Lining Material
1	1.7	190	4	3:1	1	ECB
2S	0.1	30	1	3:1	1	ECB
2N	0.3	210	1	3:1	1	ECB
3N	0.8	170	1	3:1	1	ECB
3S	0.3	160	1	3:1	1	ECB
4	0.4	140	1	3:1	1	ECB
5	0.6	140	1	3:1	1	ECB

**Sizing Tables for Temporary & Permanent Stormwater Features**

N.T.S. Source: VHB

**Photovoltaic Installation**  
361 Old Tavern Road  
Orange, Connecticut

No.	Revision	Date	App'd

Designed by JDW Checked by SJK  
Issued for \_\_\_\_\_ Date \_\_\_\_\_

Application September 29, 2021

Not Approved for Construction

Site Details 2

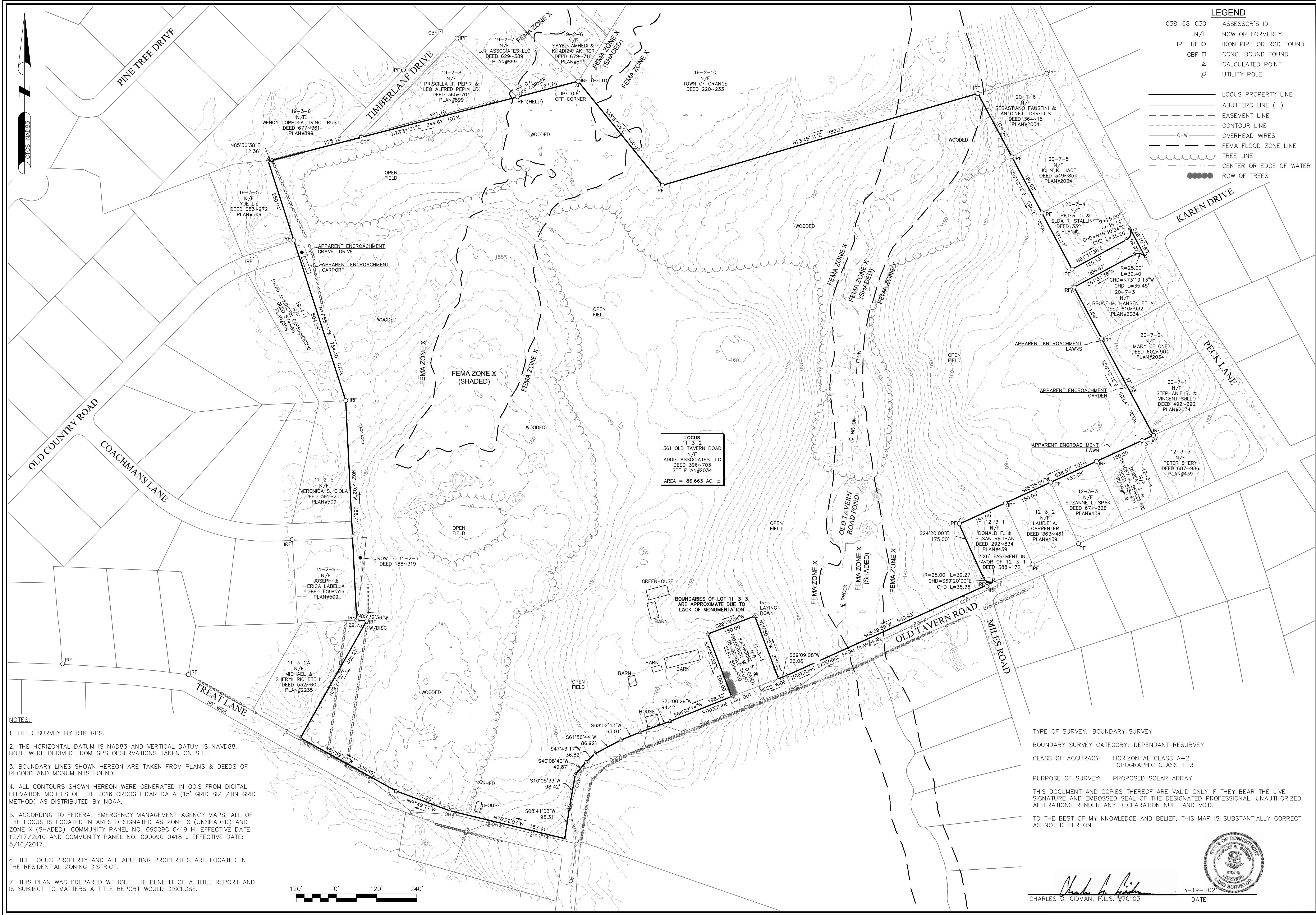
Drawing Number

C-6.2

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Project Number 42707.00





**LEGEND**

038-68-030	ASSESSOR'S ID
N/F	NOW OR FORMERLY
IPF IRF O	IRON PIPE OR ROD FOUND
CBF □	CONC. BOUND FOUND
△	CALCULATED POINT
⊗	UTILITY POLE
—	LOCUS PROPERTY LINE
— ± —	ABUTTERS LINE (±)
- - -	EASEMENT LINE
- - -	CONTOUR LINE
- - -	OVERHEAD WIRES
- - -	FEMA FLOOD ZONE LINE
- - -	TREE LINE
- - -	CENTER OR EDGE OF WATER
●●●●	ROW OF TREES

**NORTHEAST SURVEY CONSULTANTS**  
 116 PLEASANT ST., SUITE 302  
 P.O. BOX 109  
 EASTHAMPTON, MA 01027  
 (413) 203-5144

**BOUNDARY & SURVEY LIDAR CONTOURS**

SURVEYOR:	CCG	ENGINEER:	—
DRAFTING:	JDG	DESIGN:	—
FIELD WORK:	NAE	MAK	HORZ. SCALE: 1"=120'
PROJECT NUMBER:	20-256	VERT. SCALE:	—
DRAWING NAME:	20-256.DWG	DATE:	03-19-2021

**LOCUS**  
 11-3-2  
 361 OLD TAVERN ROAD  
 N/F  
 ADDIE ASSOCIATES LLC  
 DEED 386-703  
 SEE PLAN#2034  
 AREA = 86.663 AC. ±

- NOTES:**
1. FIELD SURVEY BY RTK GPS.
  2. THE HORIZONTAL DATUM IS NAD83 AND VERTICAL DATUM IS NAVD88. BOTH WERE DERIVED FROM GPS OBSERVATIONS TAKEN ON SITE.
  3. BOUNDARY LINES SHOWN HEREON ARE TAKEN FROM PLANS & DEEDS OF RECORD AND MONUMENTS FOUND.
  4. ALL CONTOURS SHOWN HEREON WERE GENERATED IN QGIS FROM DIGITAL ELEVATION MODELS OF THE 2016 CRCOG LIDAR DATA (15' GRID SIZE/TIN GRID METHOD) AS DISTRIBUTED BY NOAA.
  5. ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY MAPS, ALL OF THE LOCUS IS LOCATED IN AREAS DESIGNATED AS ZONE X (UNSHADED) AND ZONE X (SHADED). COMMUNITY PANEL NO. 09009C 0419 H, EFFECTIVE DATE: 12/17/2010 AND COMMUNITY PANEL NO. 09009C 0418 J EFFECTIVE DATE: 5/16/2017.
  6. THE LOCUS PROPERTY AND ALL ABUTTING PROPERTIES ARE LOCATED IN THE RESIDENTIAL ZONING DISTRICT.
  7. THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO MATTERS A TITLE REPORT WOULD DISCLOSE.

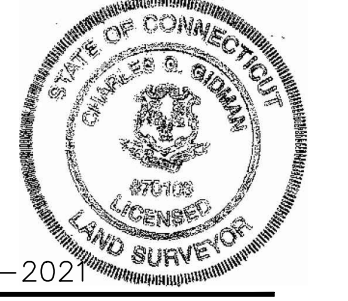


TYPE OF SURVEY: BOUNDARY SURVEY  
 BOUNDARY SURVEY CATEGORY: DEPENDANT RESURVEY  
 CLASS OF ACCURACY: HORIZONTAL CLASS A-2  
 TOPOGRAPHIC CLASS T-3  
 PURPOSE OF SURVEY: PROPOSED SOLAR ARRAY

THIS DOCUMENT AND COPIES THEREOF ARE VALID ONLY IF THEY BEAR THE LIVE SIGNATURE AND EMBOSSED SEAL OF THE DESIGNATED PROFESSIONAL. UNAUTHORIZED ALTERATIONS RENDER ANY DECLARATION NULL AND VOID.

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

*Charles G. Bidman*  
 CHARLES G. BIDMAN, P.L.S. #70103



3-19-2021  
 DATE

**PLAN OF LAND IN ORANGE, CT**  
 PREPARED FOR  
**GREENSKIES RENEWABLE ENERGY**

SHEET NO. **1** OF **1**