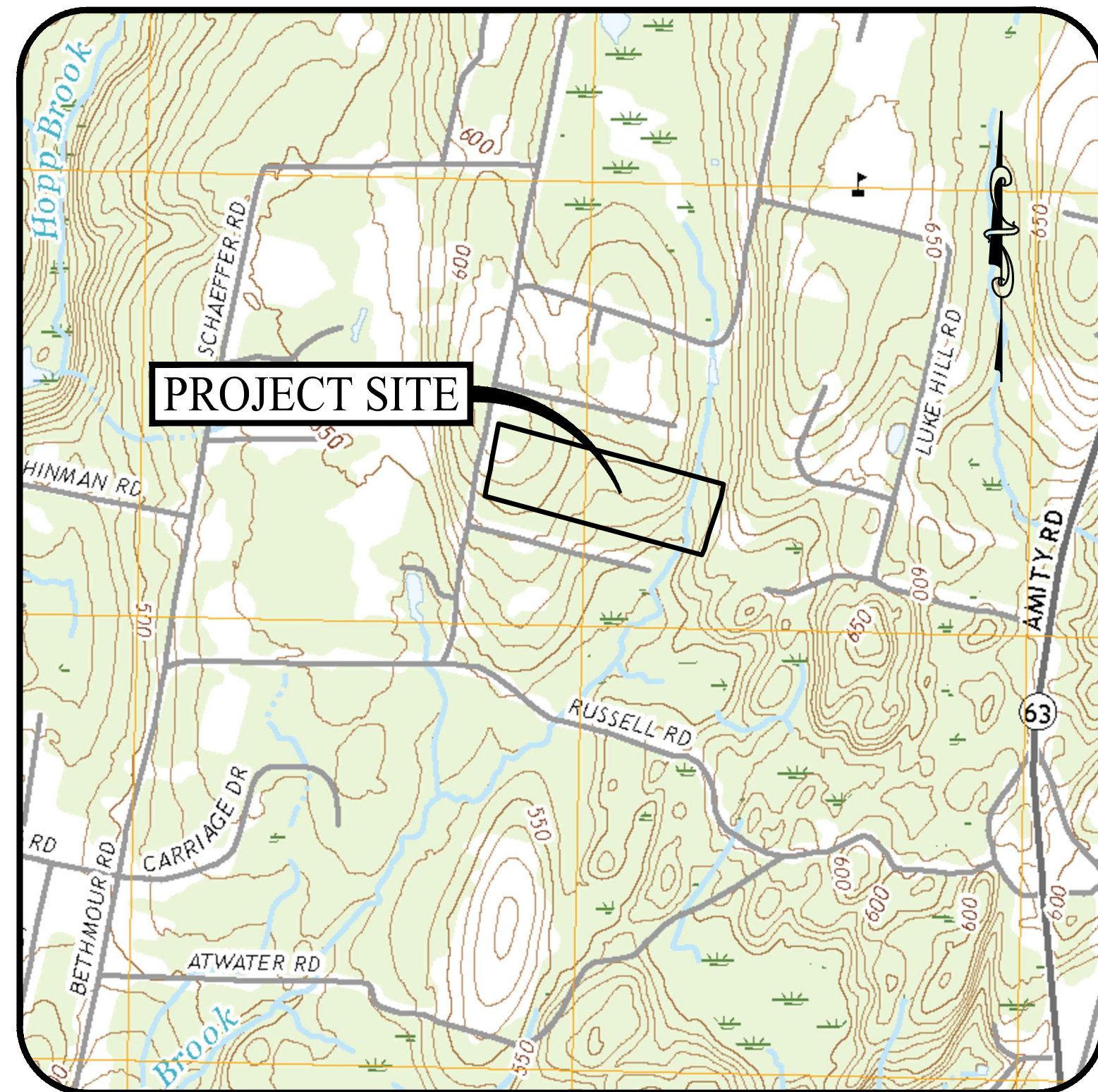


**Exhibit E**

Project Site, Interconnection Existing Conditions, Proposed  
Conditions, and Surrounding Features Maps

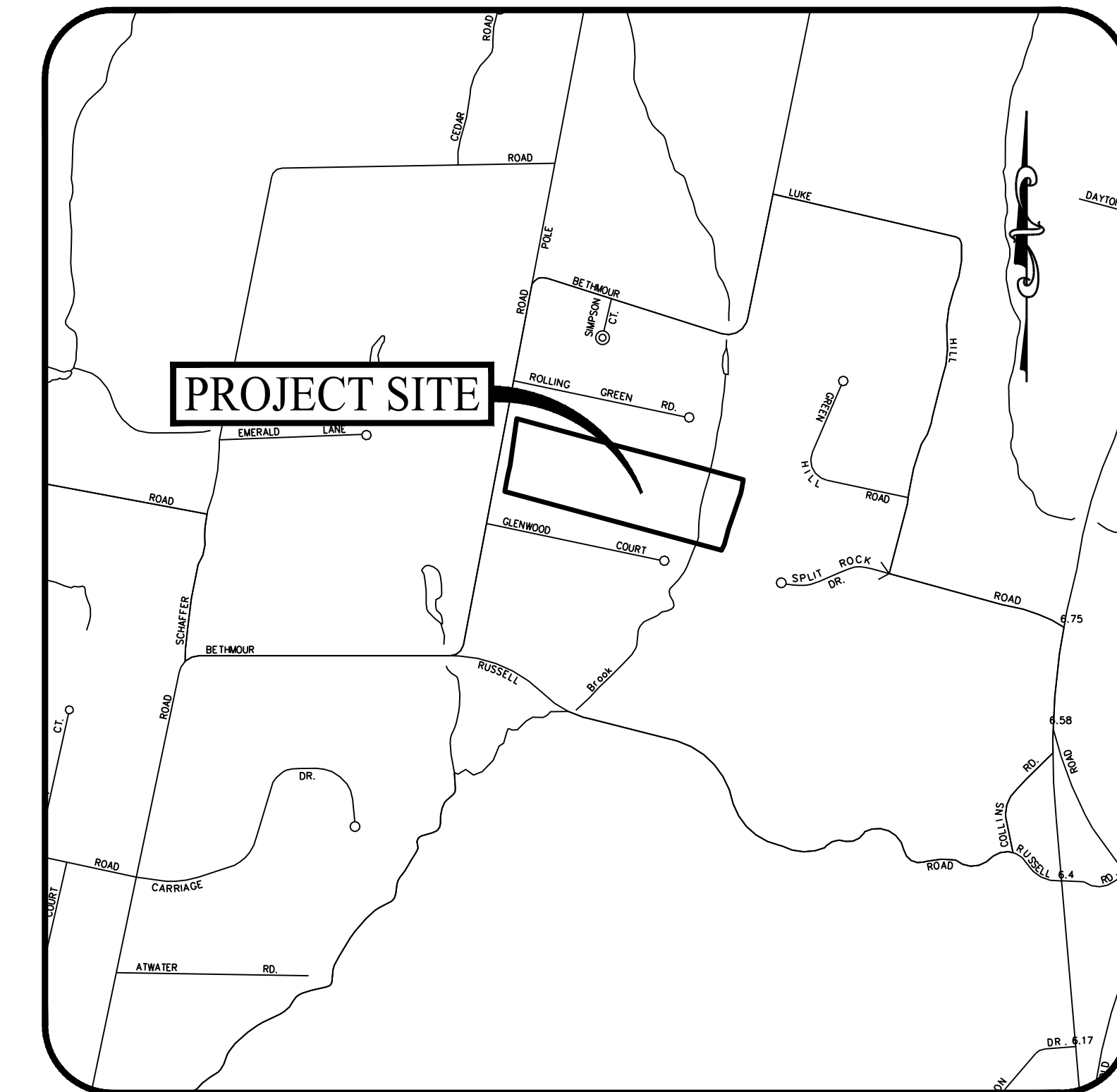


USGS MAP

SCALE: 1" = 1,000'

# PROPOSED SOLAR PHOTOVOLTAIC ARRAY

428 BETHMOUR ROAD  
BETHANY, CONNECTICUT



LOCATION MAP

SCALE: 1" = 1,000'

PREPARED FOR:



888 PROSPECT STREET, SUITE 200  
LA JOLLA, CALIFORNIA

PREPARED BY:



501 MAIN STREET, MONROE, CONNECTICUT 06468  
11 VANDERBILT AVENUE, NORWOOD, MASSACHUSETTS 02062

**OWNER**

THE NEVAR COMPANY  
PO BOX 743  
CHESHIRE, CONNECTICUT 06410

**APPLICANT**

TRITEC AMERICAS, LLC  
888 PROSPECT STREET, SUITE 200  
LA JOLLA, CALIFORNIA 92307

**PROPERTY INFORMATION**

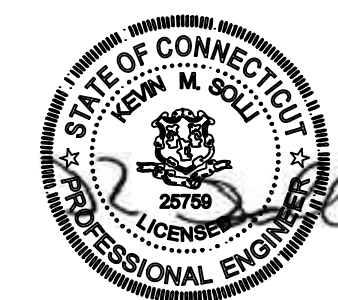
ADDRESS: 428 BETHMOUR ROAD  
MAP-BLOCK-LOT: 113-1 & 113-1-A  
ZONE: R-45  
AREA: +21.22 AC  
BOOK/PAGE: 0215/0543

**SOIL SCIENTIST**

WILLIAM KENNY  
WILLIAM KENNY ASSOCIATES  
195 TUNXIS HILL, CUTOFF SOUTH  
FAIRFIELD, CT 06825  
(203) 366-0588

**ELECTRICAL ENGINEER**

PURE POWER ENGINEERING, INC.  
111 RIVER STREET, SUITE 1110  
HOBOKEN, NJ 07030  
(201) 687-9975



**SITE / CIVIL ENGINEER**

KEVIN SOLLI, P.E., CPESC, LEED AP BD+C  
LICENSE NO. 25759  
SOLLI ENGINEERING, LLC  
501 MAIN STREET  
MONROE, CONNECTICUT 06468  
(203) 880-5455

**LANDSCAPE ARCHITECT**

MARY BLACKBURN, P.L.A.,  
LICENSE CT NO. 1499  
SOLLI ENGINEERING, LLC  
501 MAIN STREET  
MONROE, CONNECTICUT 06468  
(203) 880-5455

**SURVEYOR OF RECORD**

PATRICK J CORLESS, JR. LICENSE NO. 70015  
BL COMPANIES  
355 RESEARCH PARKWAY  
MERIDEN, CONNECTICUT 06450  
(203) 630-1406

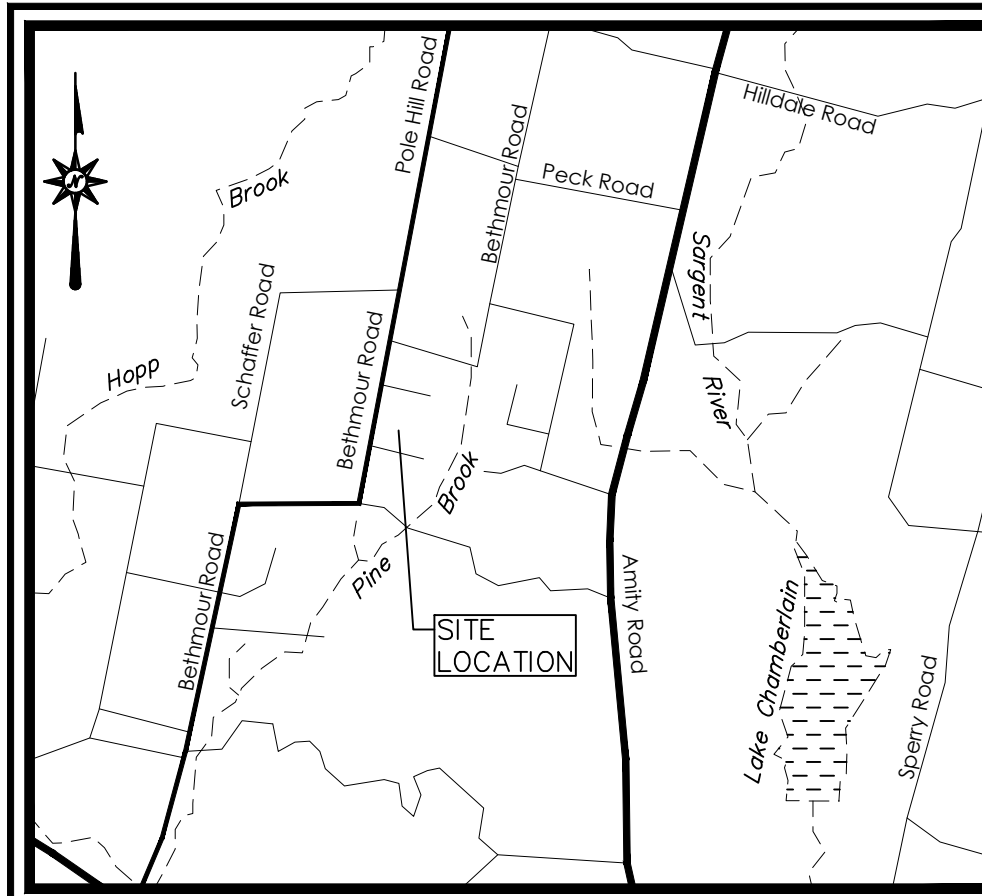
**DRAWING LIST**

SHEET #	SHEET NAME	PLAN DATE	LATEST REVISION
0.00	COVER SHEET	04/18/23	N/A
EX-1	EXISTING CONDITIONS MAP	01/05/22	N/A
2.11	SITE LAYOUT PLAN	04/18/23	N/A
2.21	GRADING AND DRAINAGE PLAN	04/18/23	N/A
2.31	SOIL EROSION & SEDIMENT CONTROL PLAN	04/18/23	N/A
2.41	SOIL EROSION & SEDIMENT CONTROL NOTES & DETAILS	04/18/23	N/A
3.01	CONSTRUCTION DETAILS	04/18/23	N/A

Rev. #: Date Description

Project:  
**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
428 BETHMOUR ROAD  
BETHANY, CONNECTICUT

Sheet Title: **COVER SHEET** Sheet #: **0.00**



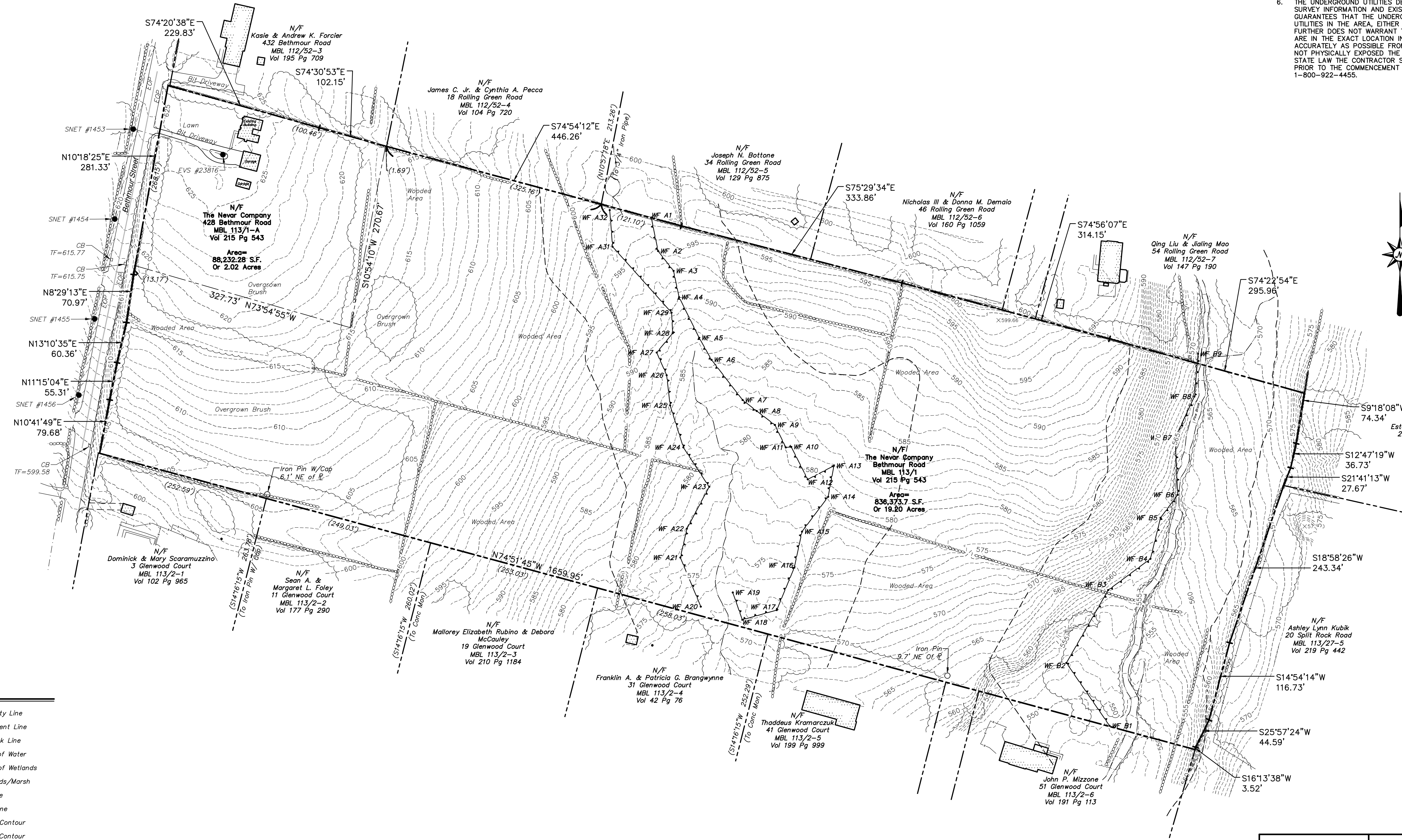
**LOCATION MAP**  
NOT TO SCALE

**MAP REFERENCES**

- A. "MAP OF LAND IN BETHANY CONN., BELONGING TO THE DRAZEN LUMBER CO., OF NEW HAVEN CONN." SCALE 1"=100', DATE 11/16/1935. CERTIFIED SUBSTANTIALLY CORRECT BY A.M. WELLINGTON AND FILED AS MAP A101 IN THE TOWN OF BETHANY CLERKS OFFICE.
- B. "'GLENWOOD' MAP OF LOTS OWNED & DEVELOPED BY THE BERNER LOHNE CO., INC., BETHANY, CONN." SCALE 1"=50', DATE 4/2/1964. CERTIFIED SUBSTANTIALLY CORRECT BY RICHARD J. NOWAKOWSKI AND FILED AS MAP A200 IN THE TOWN OF BETHANY CLERKS OFFICE.
- C. "ROLLING GREEN ACRES-EAST, SECTION ONE, OWNED AND DEVELOPED BY ROLLING GREEN ACRES INC., BETHANY, CONN." SCALE 1"=50', DATE 5/19/65. CERTIFIED SUBSTANTIALLY CORRECT BY WILLIAM O. DOLL AND FILED AS MAP A201 IN THE TOWN OF BETHANY CLERKS OFFICE.
- D. "LOTS 4 THRU 13, FINAL, ROLLING GREEN ACRES, SECTION 2 EAST, BETHANY CONN." SCALE 1"=50', DATE 10/19/65, REVISED 11/15/1965, ADDITIONS 04/18/1966. SURVEYED BY CAHN ENGINEERS, NEW HAVEN, CT AND FILED AS MAP A209 IN THE TOWN OF BETHANY CLERKS OFFICE.
- E. "MAP OF GREEN HULL ACRES, BETHANY, CONNECTICUT" SCALE 1"=100', DATE 9/5/1972. SURVEYED BY ROBERT G. SWELL AND FILED AS MAP A284 IN THE TOWN OF BETHANY CLERKS OFFICE.
- F. "MAP OF LAND OF LENA KRUPIEN, BETHANY, CONNECTICUT" SCALE 1"=40', DATE 7/18/1980. SURVEYED BY WILLIAM E. GILBERT ASSOCIATES, CONSULTING ENGINEERS, BETHANY, CT AND FILED AS MAP A403 IN THE TOWN OF BETHANY CLERKS OFFICE.
- G. "SUBDIVISION PLAN, SPLIT ROCK, 55 LUKE HILL ROAD, BETHANY, CT." SCALE 1"=100', DATE 11/16/1994. PREPARED BY JOHN PAUL GARCIA & ASSOC. P.C. ENGINEERS AND SURVEYORS, BETHANY, CT AND FILED AS MAP A709 IN THE TOWN OF BETHANY CLERKS OFFICE.

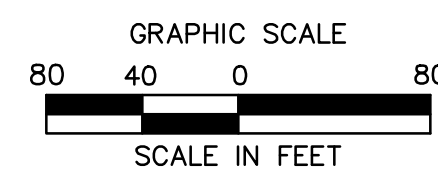
**GENERAL NOTES**

- 1. A) THIS MAP HAS BEEN PREPARED IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES, SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARDS AND SUGGESTED METHODS AND PROCEDURES FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" PREPARED AND ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. AUGUST 29, 2019.
- B) THIS PLAN CONFORMS TO HORIZONTAL ACCURACY CLASS A-2 AND TOPOGRAPHIC ACCURACY CLASS T-2.
- C) BOUNDARY DETERMINATION IS BASED UPON A RESURVEY.
- D) THE TYPE OF SURVEY PERFORMED IS AN EXISTING CONDITIONS SURVEY AND IS INTENDED TO DEPICT THE BOUNDARY, EASEMENTS, AND EXISTING CONDITIONS WITH RESPECT TO MONUMENTATION FOUND, STRUCTURES, EASEMENTS, ENCROACHMENTS, VISIBLE UTILITIES, ROADWAYS AND CONTOURS.
- 2. NORTH ARROW AND BEARINGS REFER TO THE CONNECTICUT STATE PLANE COORDINATE SYSTEM (CT NAD 83 - EPOCH 2011) AND ARE BASED ON GPS OBSERVATIONS PERFORMED BY BL COMPANIES DURING NOVEMBER, 2021 UTILIZING THE SMARTNET VRS NETWORK.
- 3. ELEVATIONS REFER TO THE NORTH AMERICAN DATUM OF 1988 (NAVD 88). THE DATUM WAS DETERMINED BY USING (GEOID 18) AND IS BASED ON GPS OBSERVATIONS PERFORMED BY BL COMPANIES IN NOVEMBER, 2021 UTILIZING THE SMARTNET VRS NETWORK.
- 4. PARCEL IS LOCATED IN AN OTHER AREA "X". (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS DEPICTED ON F.I.R.M. MAP NUMBER 09009C0267H, PANEL 267 OF 635. WITH EFFECTIVE DATE DECEMBER 17, 2010.
- 5. WETLAND BOUNDARY DETERMINED BY BL COMPANIES ON JANUARY 5, 2022 AND LOCATED BY FIELD SURVEY BY BL COMPANIES ON JANUARY 5, 2022.
- 6. THE UNDERGROUND UTILITIES DEPICTED HAVE BEEN PLOTTED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES DEPICTED COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES DEPICTED ARE IN THE EXACT LOCATION INDICATED THOUGH THEY ARE PLOTTED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY EXPOSED THE UNDERGROUND UTILITIES. PER CONNECTICUT STATE LAW THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF EXCAVATION. CALL BEFORE YOU DIG 1-800-922-4455.



**LEGEND**

	Property Line
	Easement Line
	Setback Line
	Edge of Water
	Limit of Wetlands
	Wetlands/Marsh
	Treeline
	Brushline
	Major Contour
	Minor Contour
	Stone Wall
	Retaining Wall
	Fence
	Overhead Wires
	Utility Pole
	Utility Pole w/ Light
	Catch Basin



TO MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

*Patrick J. Corless, Jr.*  
1/5/2022  
PATRICK J. CORLESS, JR., L.S. #70015

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS SEAL BEARS THE ORIGINAL SIGNATURE AND EMBOSSED SEAL OF THE ABOVE NAMED LAND SURVEYOR.

LAND OF  
**THE NEVAR COMPANY**  
428 BETHMOUR ROAD  
BETHANY, CONNECTICUT

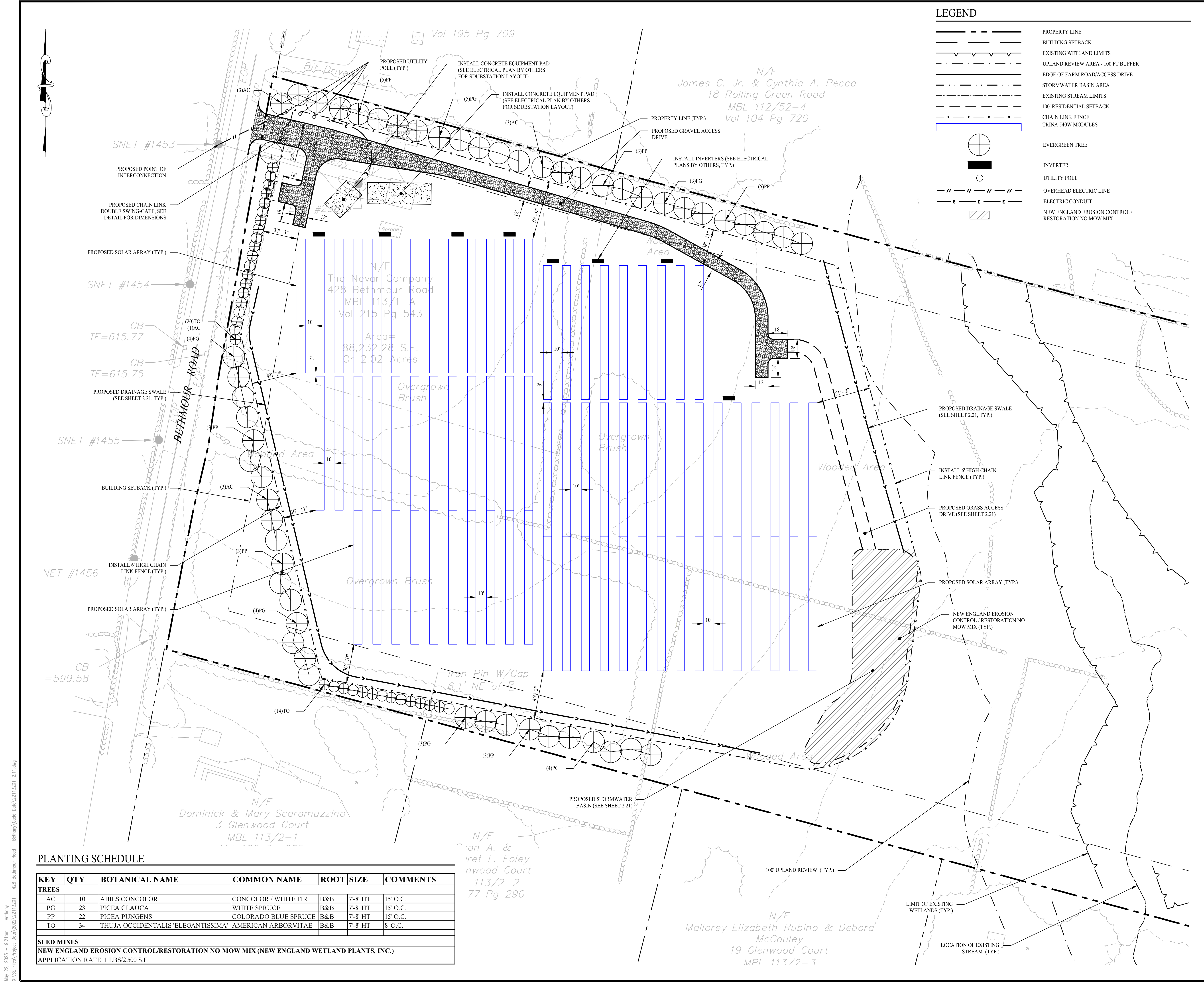
REVISIONS	Date	
No.		
Surveyed		KJ
Drawn		JW
Reviewed		PJC
Scale		1"=80'
Project No.		2101190
Date		01/05/2022
Field Book		564
CAD File:		EX210119001
Title		EXISTING CONDITIONS MAP
Sheet No.		EX-1

Aug 28, 2023 10:38am c:\projects\110101\110101\110101\110101.dwg  
LAYOUT: EX1 1:400.00 BSC

© 2023 BL COMPANIES, INC. THESE DRAWINGS SHALL NOT BE UTILIZED BY ANY PERSON, FIRM OR CORPORATION WITHOUT THE SPECIFIC WRITTEN PERMISSION OF BL COMPANIES.



355 Research Parkway  
Meriden, CT 06450  
(203) 630-1406  
(203) 630-2615 Fax



**LEGEND**

- PROPERTY LINE
- BUILDING SETBACK
- EXISTING WETLAND LIMITS
- UPLAND REVIEW AREA - 100 FT BUFFER
- EDGE OF FARM ROAD/ACCESS DRIVE
- STORMWATER BASIN AREA
- EXISTING STREAM LIMITS
- 100' RESIDENTIAL SETBACK
- CHAIN LINK FENCE
- TRINA 540W MODULES
- EVERGREEN TREE
- INVERTER
- UTILITY POLE
- OVERHEAD ELECTRIC LINE
- ELECTRIC CONDUIT
- NEW ENGLAND EROSION CONTROL / RESTORATION NO MOW MIX

**GENERAL NOTES**

1. THESE PLANS ARE FOR PERMITTING PURPOSES ONLY AND ARE NOT FOR CONSTRUCTION. NO CONSTRUCTION OR DEMOLITION SHALL BEGIN UNTIL FINAL APPROVAL OF THIS PLAN IS GRANTED.
2. ALL PROPOSED SITE WORK TO BE COMPLETED IN ACCORDANCE WITH ALL PERMITS, APPROVALS AND CONDITIONS OF APPROVALS ISSUED BY LOCAL, STATE AND/OR FEDERAL REVIEWING AGENCIES.
3. EXISTING BOUNDARY, TOPOGRAPHY AND SITE CONDITIONS INFORMATION TAKEN FROM A PLAN ENTITLED "EXISTING CONDITIONS MAP, 428 BETHMOUR ROAD, BETHANY, CONNECTICUT, EX-1," DATED JANUARY 05, 2022, SCALE: 1"=80', BY BL COMPANIES.
4. REFER TO THE EXISTING CONDITIONS MAP FOR THE ENTIRE PROPERTY BOUNDARY AND EXISTING CONDITIONS INFORMATION. THE PLAN HEREON DEPICTS A PORTION OF THE PROPERTY IN WHICH THE SITE WORK IS BEING PROPOSED.
5. THE SUBJECT PARCEL CONSISTS OF A TOTAL AREA OF APPROXIMATELY 21.23± ACRES, LOCATED IN THE RESIDENTIAL-65 (R-65) DISTRICT IN THE TOWN OF BETHANY, CONNECTICUT.
6. WETLAND BOUNDARY DETERMINED AND LOCATED BY FIELD SURVEY BY BL COMPANIES ON 01/05/2022.
7. PORTIONS OF THE SITE ARE LOCATED WITHIN FEMA DESIGNATED FLOOD HAZARD AREA "X" AS DEPICTED ON F.I.R.M. MAP NUMBER 090900267H, PANEL 267 OF 635, WITH EFFECTIVE DATE DECEMBER 17, 2010.
8. ALL CONSTRUCTION SHALL COMPLY WITH THE TOWN OF BETHANY STANDARDS AND CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS IN THE ABOVE REFERENCED INCREASING HIERARCHY. IF SPECIFICATIONS ARE IN CONFLICT, THE MORE STRINGENT SPECIFICATION SHALL APPLY. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE OSHA, FEDERAL, STATE AND LOCAL REGULATIONS.
9. PRIOR TO DEMOLITION OR CONSTRUCTION, THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" 72 HOURS BEFORE THE COMMENCEMENT OF WORK AT (800) 922-4455 AND VERIFY ALL UTILITY AND STORM DRAINAGE SYSTEM LOCATIONS. INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE SYSTEMS HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY PROVIDER AND MUNICIPAL RECORD MAPS AND/OR FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES AND STORM DRAINAGE SYSTEMS ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STORM DRAINAGE SYSTEMS INCLUDING SERVICES.
10. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED, EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE CIVIL ENGINEER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.
11. THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY ZONING PERMITS REQUIRED BY GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL LOCAL AND STATE PERMITS. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROLS NECESSARY FOR THIS PROJECT.
12. TRAFFIC CONTROL SIGNAGE SHALL CONFORM TO THE STATE DOT STANDARD DETAIL SHEETS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. SIGNS SHALL BE INSTALLED PLUMB WITH THE EDGE OF THE SIGN 2' OFF THE FACE OF THE CURB, AND WITH 7' VERTICAL CLEARANCE UNLESS OTHERWISE DETAILED OR NOTED.
13. THE CONTRACTOR SHALL RESTORE ANY DRAINAGE STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS OR SIGNAGE DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AS APPROVED BY THE CIVIL ENGINEER OF RECORD. DURING CONSTRUCTION THE CONTRACTOR IS TO HAVE THE SITE MAINTAINED FREE OF ALL TRASH, LITTER, DEBRIS AND OVERGROWN VEGETATION.
14. THE OWNER SHALL BE RESPONSIBLE FOR MAINTAINING THE SITE FREE OF ALL TRASH, LITTER, DEBRIS AND OVERGROWN VEGETATION THROUGHOUT CONSTRUCTION.
15. ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED BY THE OWNER, CIVIL ENGINEER, AND REGULATORY AGENCY PRIOR TO INSTALLATION DURING THE BIDDING PROCESS.

**SOLAR ARRAY SYSTEM INFORMATION**

	TOTAL
SIZE DC	1,399 MW
SIZE AC	0,999 MW
INVERTER LOAD RATIO	1.40
MODULE TYPE	TRACKING TRINASOLAR TSM-540-DEG19C.20 (540W)
MODULE QUANTITY	2,500
INVERTER	SUNGROW SG125HV 125KW
INVERTER QUANTITY	8
UTILITY	EVERSOURCE

**PLANTING SCHEDULE**

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT SIZE	COMMENTS
<b>TREES</b>					
AC	10	ABIES CONCOLOR	CONCOLOR / WHITE FIR	B&B 7'-8' HT	15' O.C.
PG	23	PICEA GLAUCA	WHITE SPRUCE	B&B 7'-8' HT	15' O.C.
PP	22	PICEA PUNGENS	COLORADO BLUE SPRUCE	B&B 7'-8' HT	15' O.C.
TO	34	THUJA OCCIDENTALIS 'ELEGANTISSIMA'	AMERICAN ARBORVITAE	B&B 7'-8' HT	8' O.C.
<b>SEED MIXES</b>					
NEW ENGLAND EROSION CONTROL/RESTORATION NO MOW MIX (NEW ENGLAND WETLAND PLANTS, INC.)					
APPLICATION RATE: 1 LBS/2,500 S.F.					

Rev. #: \_\_\_\_\_ Date \_\_\_\_\_ Description \_\_\_\_\_

Graphic Scale:

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

Drawn By: AWC  
 Checked By: CJB  
 Approved By: KMS  
 Project #: 22113201  
 Plan Date: 04/18/23  
 Scale: 1" = 80'

Project: **PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
 428 BETHMOUR ROAD  
 BETHANY, CONNECTICUT

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

May 22, 2023 - 8:21am Anthony  
 X:\SE Firm\Projects\2023\22113201 - 428 Bethmour Road - Bethany\Coord Data\22113201-2.11.dwg

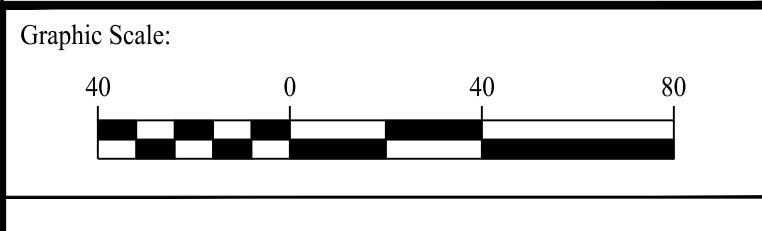
**GENERAL NOTES**

1. THESE PLANS ARE FOR PERMITTING PURPOSES ONLY AND ARE NOT FOR CONSTRUCTION. NO CONSTRUCTION OR DEMOLITION SHALL BEGIN UNTIL FINAL APPROVAL OF THIS PLAN IS GRANTED.
2. ALL PROPOSED SITE WORK TO BE COMPLETED IN ACCORDANCE WITH ALL PERMITS, APPROVALS AND CONDITIONS OF APPROVALS ISSUED BY LOCAL, STATE AND/OR FEDERAL REVIEWING AGENCIES.
3. EXISTING BOUNDARY, TOPOGRAPHY AND SITE CONDITIONS INFORMATION TAKEN FROM A PLAN ENTITLED "EXISTING CONDITIONS MAP, 428 BETHMOUR ROAD, BETHANY, CONNECTICUT, EX-1," DATED JANUARY 05, 2022, SCALE: 1"=80', BY BL COMPANIES.
4. REFER TO THE EXISTING CONDITIONS MAP FOR THE ENTIRE PROPERTY BOUNDARY AND EXISTING CONDITIONS INFORMATION. THE PLAN HEREON DEPICTS A PORTION OF THE PROPERTY IN WHICH THE SITE WORK IS BEING PROPOSED.
5. THIS DRAWING IS INTENDED TO DESCRIBE GRADING AND DRAINAGE ONLY. REFER TO SITE PLAN FOR GENERAL INFORMATION, AND DETAIL SHEETS FOR DETAILS.
6. THE CONTRACTOR SHALL PRESERVE EXISTING VEGETATION WHERE POSSIBLE AND/OR AS NOTED ON DRAWINGS. REFER TO EROSION CONTROL PLAN FOR LIMIT OF DISTURBANCE AND EROSION CONTROL NOTES.
7. TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON SITE FOR USE IN FINAL LANDSCAPING.
8. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSTRUCTION PERMITS REQUIRED BY GOVERNMENT AND LOCAL AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY CONSTRUCTION PERMITS FROM THE TOWN OF BETHANY REQUIRED TO PERFORM ALL WORK, INCLUDING FOR STREET CUTS AND CONNECTIONS TO EXISTING UTILITIES. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
9. ALL DISTURBANCE INCURRED TO TOWN OR STATE PROPERTY DUE TO CONSTRUCTION SHALL BE RESTORED TO ITS PREVIOUS CONDITION OR BETTER, TO THE SATISFACTION OF THE TOWN OF BETHANY AUTHORITY.
10. IF IMPACTED OR CONTAMINATED SOIL IS ENCOUNTERED BY THE CONTRACTOR, THE CONTRACTOR SHALL SUSPEND EXCAVATION WORK OF IMPACTED SOIL AND NOTIFY THE OWNER AND/OR OWNER'S ENVIRONMENTAL CONSULTANT PRIOR TO PROCEEDING WITH FURTHER WORK IN THE IMPACTED SOIL LOCATION UNTIL FURTHER INSTRUCTED BY THE OWNER AND/OR OWNER'S ENVIRONMENTAL CONSULTANT.
11. ALL PIPE LENGTHS ARE HORIZONTAL DISTANCES AND ARE APPROXIMATE.

**LEGEND**

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- ADJOINING LOT LINE
- MAJOR CONTOURS
- MINOR CONTOURS
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- CONTOUR LABEL
- PROPOSED SPOT ELEVATION
- EXISTING SPOT ELEVATION
- SWALE
- STORM DRAIN PIPE
- RIP RAP SPILLWAY
- OUTLET CONTROL STRUCTURE
- FLARE END SECTION
- LEVEL SPREADER
- GRASS PATHWAY

Rev. #:	Date	Description



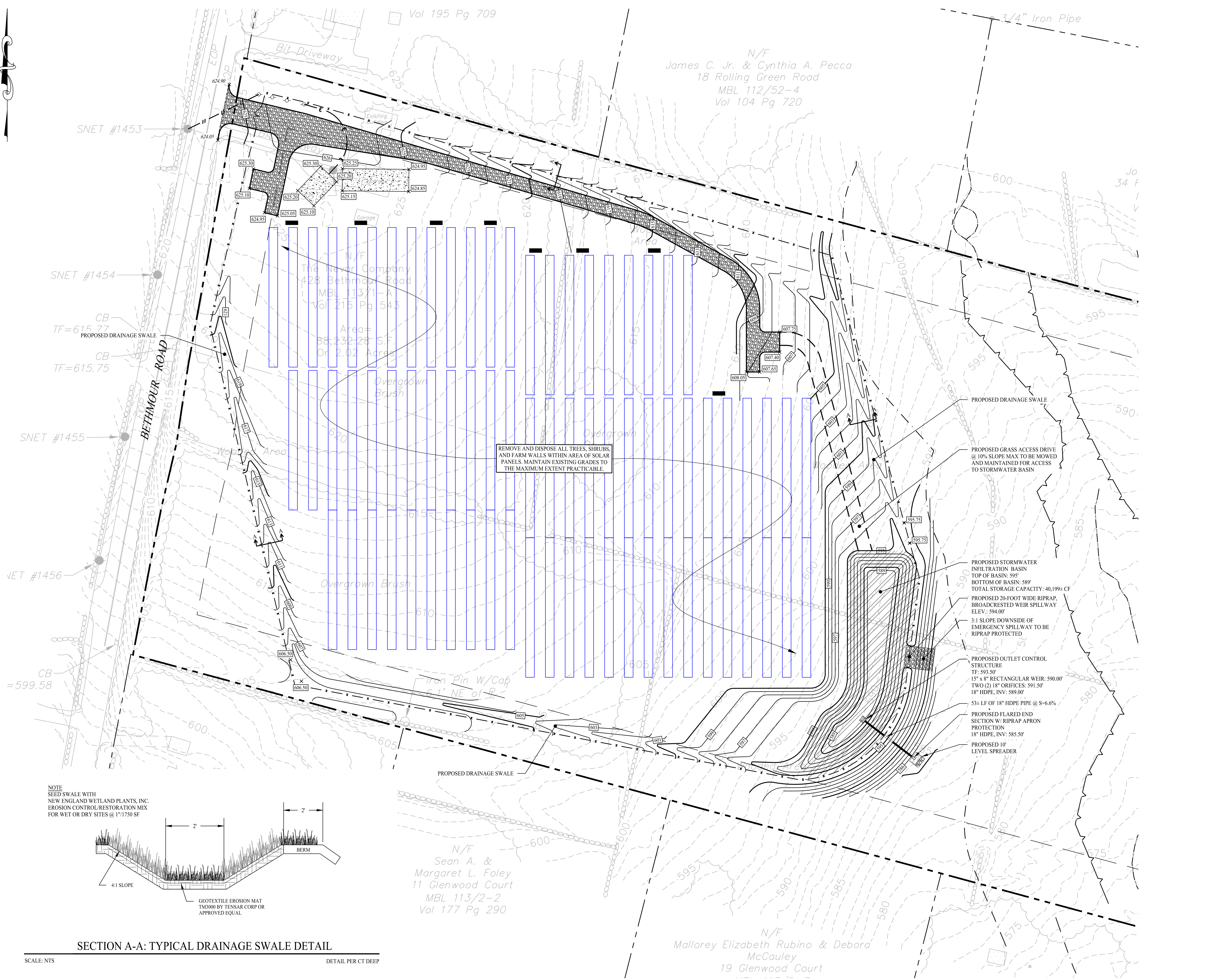
**SOLLI ENGINEERING**  
 501 Main Street, Monroe, CT 06468 T: (203) 880-5455 F: (203) 880-9695  
 11 Vanderbilt Ave, Norwood, MA 02062 T: (781) 352-8491 F: (203) 880-9695

Drawn By:	AWC
Checked By:	CJB
Approved By:	KMS
Project #:	22113201
Plan Date:	04/18/23
Scale:	1" = 40'



**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
 428 BETHMOUR ROAD  
 BETHANY, CONNECTICUT

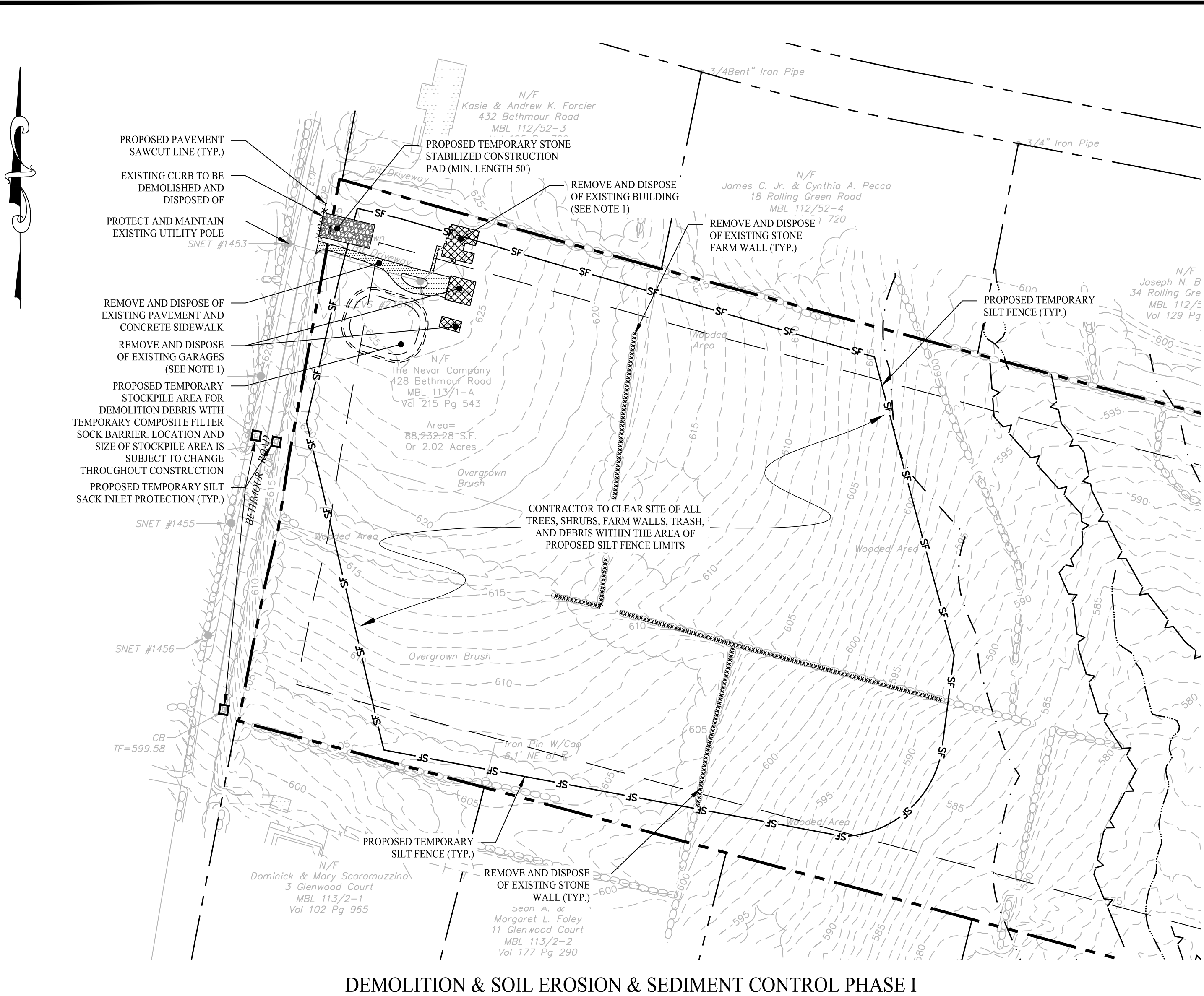
Sheet Title:	Sheet #:
GRADING & DRAINAGE PLAN	2.21



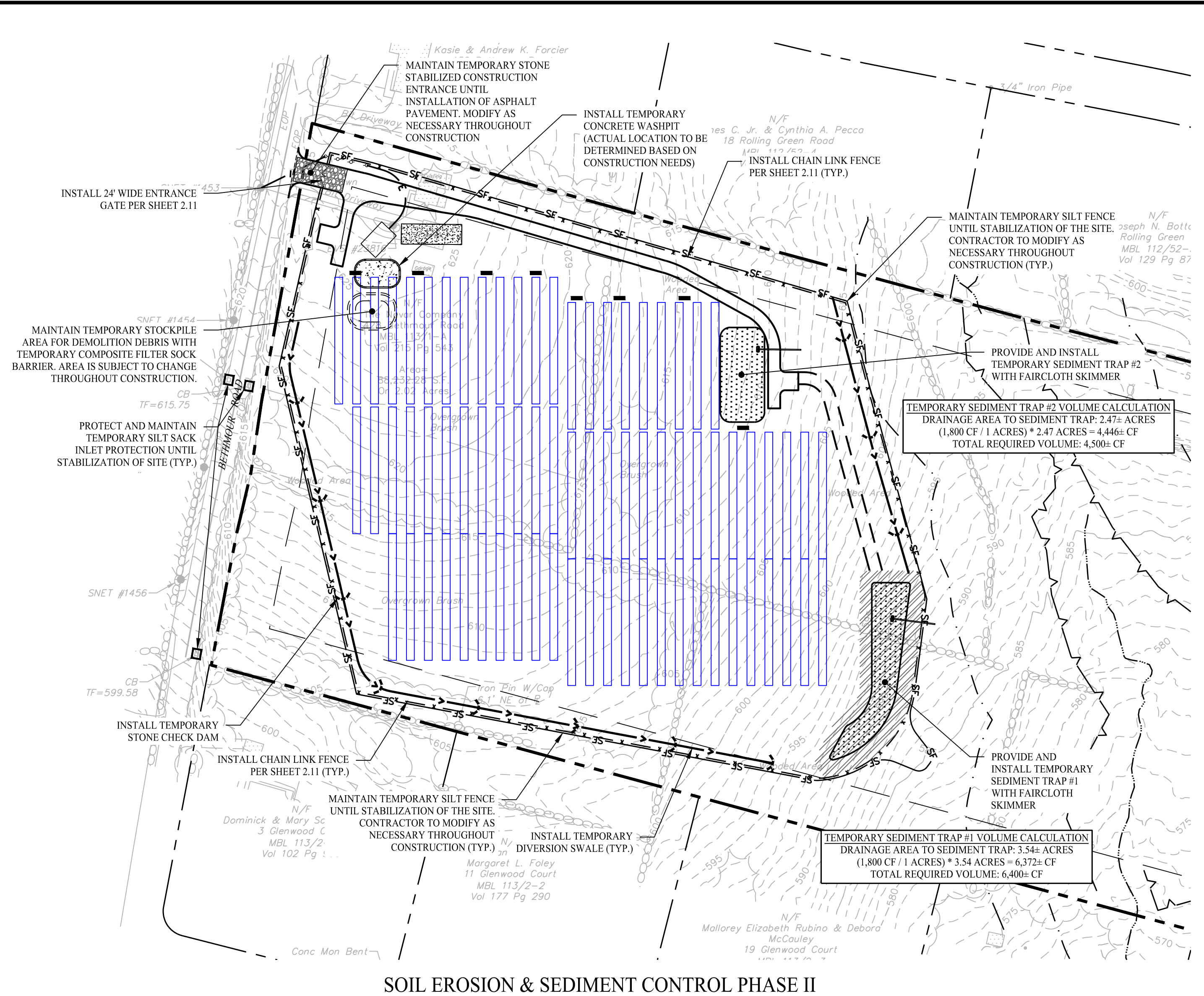
**SECTION A-A: TYPICAL DRAINAGE SWALE DETAIL**

SCALE: NTS  
 DETAIL PER CT DEEP

May 22, 2023 - 9:26am Anthony  
 X:\36 Final\Project Data\2023\22113201 - 428 Bethmour Road - Bethany\Grid Data\22113201-2.21.dwg



DEMOLITION & SOIL EROSION & SEDIMENT CONTROL PHASE I



SOIL EROSION & SEDIMENT CONTROL PHASE II

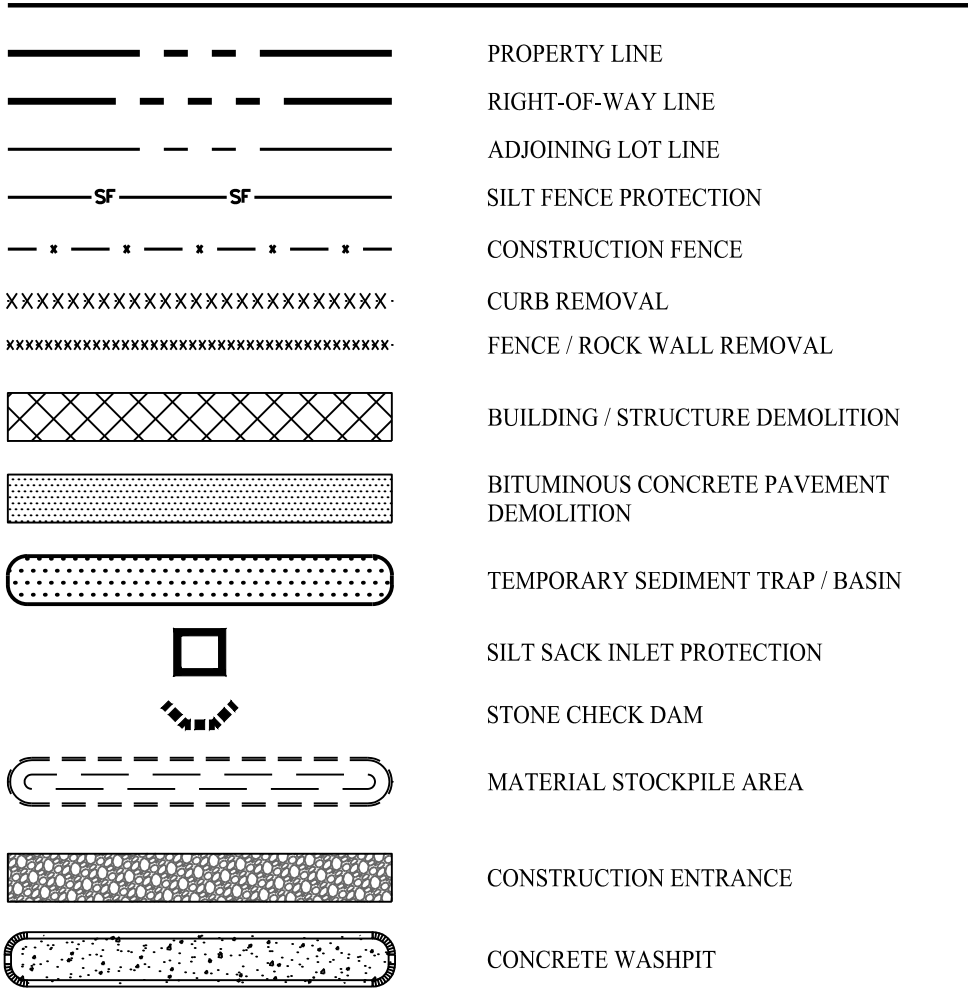
DEMOLITION NOTES

- CONTRACTOR SHALL SECURE ANY PERMITS, PAY ALL FEES AND PERFORM CLEARING AND GRUBBING AND DEBRIS REMOVAL PRIOR TO COMMENCEMENT OF GRADING OPERATIONS.
- ALL BUILDINGS, INCLUDING FOUNDATIONS WALLS, FOOTINGS AND BASEMENT SLABS INDICATED ON PLAN ARE TO BE REMOVED FROM THE SITE.
- ALL SEDIMENT AND EROSION CONTROLS AS SHOWN ON THE PLAN HEREON SHALL BE INSTALLED BY THE DEMOLITION CONTRACTOR PRIOR TO START OF DEMOLITION OPERATIONS.
- REMOVE AND DISPOSE OF ANY CONCRETE, FENCES, STAIRS, WALLS, DEBRIS AND RUBBISH REQUIRING REMOVAL FROM THE WORK AREA IN AN APPROVED OFF SITE LANDFILL, BY AN APPROVED HAULER. THE HAULER SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATORY REQUIREMENTS.
- THE CONTRACTOR SHALL PROTECT ALL IRON PINS, MONUMENTS AND PROPERTY CORNERS DURING DEMOLITION ACTIVITIES. ANY CONTRACTOR DISTURBED PINS, MONUMENTS, AND OR PROPERTY CORNERS, ETC. SHALL BE RESET BY A LICENSED LAND SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.
- THE DEMOLITION CONTRACTOR SHALL STABILIZE THE SITE AND KEEP EROSION CONTROL MEASURES IN PLACE UNTIL THE COMPLETION OF HIS WORK OR UNTIL THE COMMENCEMENT OF WORK BY THE SITE CONTRACTOR, WHICHEVER OCCURS FIRST, AS REQUIRED OR DEEMED NECESSARY BY THE ENGINEER OF RECORD. THE SITE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE MAINTENANCE OF EXISTING EROSION AND SEDIMENTATION CONTROLS AND FOR INSTALLATION OF ANY NEW EROSION AND SEDIMENT CONTROLS AS SHOWN HEREON.
- THE CONTRACTOR SHALL ADHERE TO ALL OSHA, FEDERAL, STATE AND LOCAL REGULATIONS WHEN OPERATING CRANES, BOOMS, HOISTS, ETC. IN PROXIMITY OF OVERHEAD ELECTRIC LINES. IF CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINES CONTACT THE POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS. ANY UTILITY PROVIDER FEES SHALL BE PAID BY THE CONTRACTOR.
- PRIOR TO DEMOLITION OR CONSTRUCTION, THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" 72 HOURS BEFORE THE COMMENCEMENT OF WORK AT "81" AND VERIFY ALL UTILITY AND STORM DRAINAGE SYSTEM LOCATIONS. INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE SYSTEMS HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY PROVIDER AND MUNICIPAL RECORD MAPS AND/OR FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES AND STORM DRAINAGE SYSTEMS ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STORM DRAINAGE SYSTEMS INCLUDING SERVICES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY AND SECURITY OF THE SITE DURING ALL PHASES OF CONSTRUCTION. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR SITE SAFETY MEASURES TO BE EMPLOYED DURING CONSTRUCTION. THE ENGINEER OF RECORD HAS NO CONTRACTUAL DUTY TO CONTROL THE SAFETY METHODS OR MEANS OF THE WORK, JOB SITE RESPONSIBILITIES, SUPERVISION OR TO SUPERVISE SAFETY AND DOES NOT VOLUNTARILY ASSUME ANY SUCH DUTY OR RESPONSIBILITY.
- SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED, EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE ENGINEER OF RECORD IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.
- NO WORK ON THIS SITE SHALL BE INITIATED BY THE CONTRACTOR UNTIL A PRE-CONSTRUCTION MEETING WITH OWNER AND THE ENGINEER OF RECORD IS PERFORMED. THE CONTRACTOR SHALL HAVE MARK OUTS OF EXISTING UTILITIES COMPLETED PRIOR TO MEETING.
- CONTRACTOR SHALL BACKFILL ALL AREAS WHERE BUILDING SLABS AND FOUNDATIONS HAVE BEEN REMOVED.

SEDIMENT & EROSION CONTROL NOTES

- THESE PLANS ARE FOR PERMITTING PURPOSES ONLY AND ARE NOT FOR CONSTRUCTION. NO CONSTRUCTION OR DEMOLITION SHALL BEGIN UNTIL APPROVAL OF THE FINAL PLANS IS GRANTED BY ALL GOVERNING AND REGULATORY AGENCIES.
- ALL SITE WORK TO BE COMPLETED IN ACCORDANCE WITH ALL PERMITS, APPROVALS AND CONDITIONS OF APPROVALS ISSUED BY THE TOWN OF BETHANY FOR THIS PROJECT.
- EXISTING SITE CONDITIONS AND BOUNDARY INFORMATION TAKEN FROM A PLAN TITLED "EXISTING CONDITIONS MAP, 428 BETHMOUR ROAD, BETHANY, CONNECTICUT, EX-1," DATED JANUARY 05, 2022, SCALE: 1"=80', BY BL COMPANIES.
- REFER TO THE EXISTING CONDITIONS MAP FOR THE ENTIRE PROPERTY BOUNDARY AND EXISTING CONDITIONS INFORMATION. THE PLAN HEREON DEPICTS A PORTION OF THE PROPERTY IN WHICH THE SITE WORK IS BEING PROPOSED.
- PRIOR TO STARTING ANY OTHER WORK ON SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT. EROSION CONTROLS TO BE INSTALLED AT THE EDGE OF PROPOSED WORK.
- EROSION CONTROLS TO ACT AS A LIMIT OF WORK LINE TO ENSURE THAT NO EQUIPMENT ENCROACHES ON THE ADJACENT PROPERTIES AND AREAS INTENDED TO REMAIN UNDISTURBED.
- EROSION CONTROLS SHALL REMAIN IN PLACE AND BE MAINTAINED FOR THE DURATION OF THE PROJECT TO LIMIT THE MOVEMENT OF SILTATION AND SEDIMENTS FROM ENTERING EXISTING DRAINAGE SYSTEMS OR FROM LEAVING THE SITE. ANY ACCUMULATED SEDIMENTS ARE TO BE REMOVED FROM THE EROSION CONTROLS AND DISPOSED TO PROPERLY. ADDITIONALLY, ALL EROSION CONTROLS ARE TO BE INSPECTED AFTER A STORM EVENT AND THE CONTROLS REPLACED OR ARMORED AS NECESSARY AND ACCUMULATED SEDIMENTS REMOVED.
- ADDITIONAL EROSION CONTROLS ARE TO BE UTILIZED AS NECESSARY AND AS DIRECTED BY THE ENGINEER OF RECORD TO LIMIT SEDIMENTS FROM DISCHARGING TO ADJACENT PROPERTIES, RESOURCE AREAS, OR INTO EXISTING STORM DRAIN SYSTEMS.
- CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT EROSION SHALL NOT AFFECT OFF-SITE AREAS, WHETHER SUCH EROSION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT.
- A RESERVE AMOUNT OF EROSION CONTROL MATERIALS ARE TO BE KEPT WITHIN EASY ACCESS ON SITE AT ALL TIMES.
- CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF THE TIME BEFORE THEY ARE COVERED, SEEDDED, OR OTHERWISE STABILIZED TO PREVENT EROSION.
- TEMPORARY STOCKPILING OF MATERIALS RELATED TO THE CONSTRUCTION ACTIVITIES ARE TO BE PROPERLY STABILIZED, PROTECTED AND DEMARCATED TO LIMIT MOVEMENT OF MATERIAL INTO STORM DRAIN SYSTEM, RESOURCE AREAS, OR ONTO ADJACENT PARCELS.
- REFUELING AND ANY WORK ASSOCIATED WITH THE MAINTENANCE OF CONSTRUCTION EQUIPMENT TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE REGULATIONS.
- THE AREAS OF CONSTRUCTION SHALL REMAIN IN A STABLE CONDITION AT THE CLOSE OF EACH CONSTRUCTION DAY. EROSION CONTROLS SHALL BE CHECKED AT THIS TIME AND MAINTAINED OR REINFORCED IF NECESSARY.
- EROSION CONTROLS SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED WITH PAVEMENT, PLANTINGS, OR WITH AN ESTABLISHED STAND OF GRASS. EROSION CONTROLS SHALL NOT BE REMOVED UNTIL SITE STABILIZATION IS COMPLETE. CONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS FROM ENTIRE DRAINAGE AND SEWER SYSTEMS AS DIRECTED BY THE ENGINEER OF RECORD.
- UTILIZE APPROPRIATE DEWATERING SYSTEMS AND TECHNIQUES TO MAINTAIN THE EXCAVATED AREA SUFFICIENTLY DRY FROM GROUNDWATER AND/OR SURFACE RUNOFF SO AS TO NOT ADVERSELY AFFECT CONSTRUCTION PROCEDURES OR CAUSE EXCESSIVE DISTURBANCE OF UNDERLYING NATURAL GROUND.
- WATER FROM TRENCHES AND EXCAVATIONS SHALL NOT BE DISCHARGED DIRECTLY TO STORM DRAIN SYSTEMS. PROPER TREATMENT TO A SEDIMENTATION AREA IS TO TAKE PLACE PRIOR TO DISCHARGE TO ANY DRAINAGE SYSTEMS.
- THE CONTRACTOR SHALL REPAIR ANY DAMAGE RESULTING FROM THE FAILURE OF THE DEWATERING OPERATIONS OR FROM FAILURE TO MAINTAIN ALL THE AREAS OF WORK IN SUITABLE DRY CONDITION.
- PRECAUTIONS SHALL BE TAKEN TO PROTECT NEW WORK FROM FLOODING DURING STORMS OR FROM OTHER CAUSES. GRADING IN THE AREAS SURROUNDING ALL EXCAVATIONS SHALL BE PROPERLY SLOPED TO PREVENT WATER FROM RUNNING INTO THE EXCAVATED AREA OR TO ADJACENT PROPERTIES. WHERE REQUIRED, TEMPORARY DITCHES SHALL BE PROVIDED FOR DRAINAGE, UPON COMPLETION OF THE WORK AND WHEN DIRECTED, ALL AREAS SHALL BE RESTORED IN A SATISFACTORY MANNER AND AS DIRECTED.
- REFER TO SHEET 2.41 FOR DETAILS OF THE PROPOSED SOIL EROSION AND SEDIMENT CONTROL (SEC) MEASURES AND ADDITIONAL INFORMATION REGARDING CONSTRUCTION SEQUENCE, SEC MEASURE INSTALLATION, AND MAINTENANCE.

LEGEND



CONSTRUCTION SEQUENCE (PHASE I)

- PHASE I:**
  - INSTALL STABILIZED CONSTRUCTION ENTRANCE / EXIT.
  - INSTALL SILT FENCE, SEC MEASURES AS PROPOSED (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL SEC MEASURES).
  - PREPARE TEMPORARY PARKING AND STORAGE AREAS.
  - HALT ALL ACTIVITIES AND CONTACT THE ENGINEER OF RECORD / TOWN OF BETHANY LAND USE AGENT TO PERFORM INSPECTION AND CERTIFICATION OF BEST MANAGEMENT PRACTICES (BMPs). GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT THE STORM WATER PRE-CONSTRUCTION MEETING WITH THE ENGINEER, CITY AGENCIES AND GROUND-DISTURBING CONTRACTOR BEFORE PROCEED WITH CONSTRUCTION.
  - PERFORM PAVEMENT SAWCUTS.
  - DEMOLISH AND REMOVE EXISTING STRUCTURES / FOUNDATIONS.
  - REMOVE ALL EXISTING CURBING, BITUMINOUS CONCRETE PAVEMENT, CONCRETE PADS AND FENCING.
  - BEGIN CLEARING AND GRUBBING THE SITE.
  - ESTABLISH MATERIAL STOCKPILE AREA AND INSTALL SEC BARRIER SURROUNDING PILE.
  - BEGIN ROUGH GRADING OF THE SITE.

CONSTRUCTION SEQUENCE (PHASE II)

- PHASE II:**
  - TEMPORARILY SEED, THROUGHOUT CONSTRUCTION, DENUDED AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE.
  - INSTALL PROPOSED STORM DRAINAGE SYSTEM AND STRUCTURES (SEE SHEET 2.21).
  - START CONSTRUCTION OF BUILDING PAD, PARKING AREAS, AND STRUCTURES.
  - PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
  - PREPARE SITE FOR FINAL GRADING.
  - CONSTRUCT CONCRETE PADS.
  - INSTALL APPROPRIATE INLET PROTECTIONS PRIOR TO PAVING.
  - CONTRACTOR CONSTRUCTION MANAGER TO COORDINATE WITH ENGINEER OF RECORD TO OBTAIN STABILIZED SITE STATUS.
  - CONTINUE DAILY INSPECTION REPORTS UNTIL THE FINAL DAILY INSPECTION REPORT IS SIGNED BY THE CONSTRUCTION MANAGER AND SUBMITTED.

Rev. #:	Date	Description



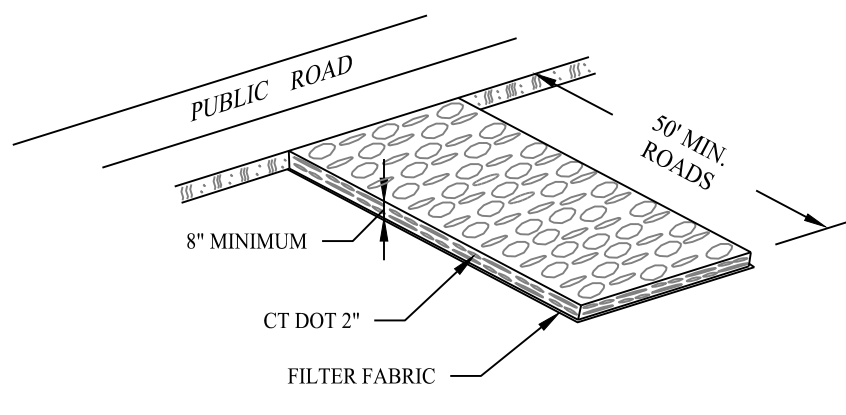
**SOLLI ENGINEERING**  
 501 Main Street, Monroeville, CT 06468 T: (203) 880-5455 F: (203) 880-9695  
 11 Vanderbilt Ave., Norwood, MA 02062 T: (781) 352-8491 F: (203) 880-9695

Drawn By:	CMH
Checked By:	CJB
Approved By:	KMS
Project #:	22113201
Plan Date:	04/18/23
Scale:	1" = 80'



**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
 428 BETHMOUR ROAD  
 BETHANY, CONNECTICUT

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

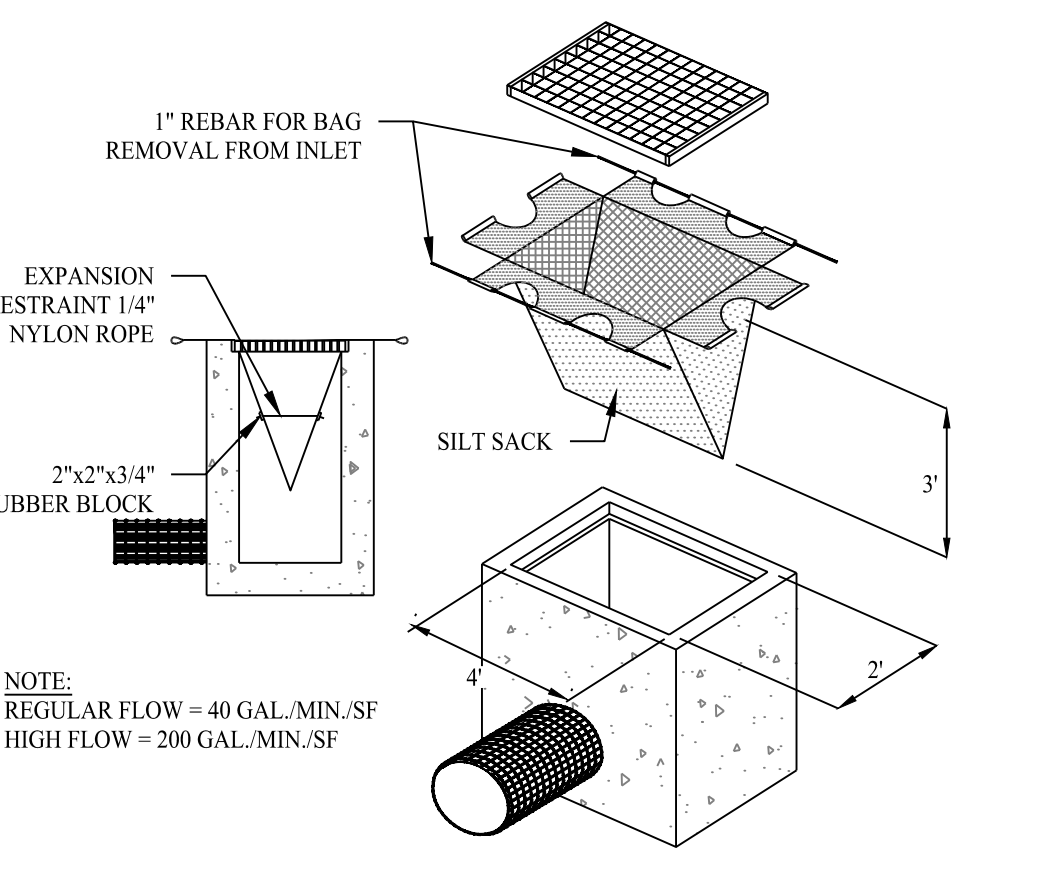
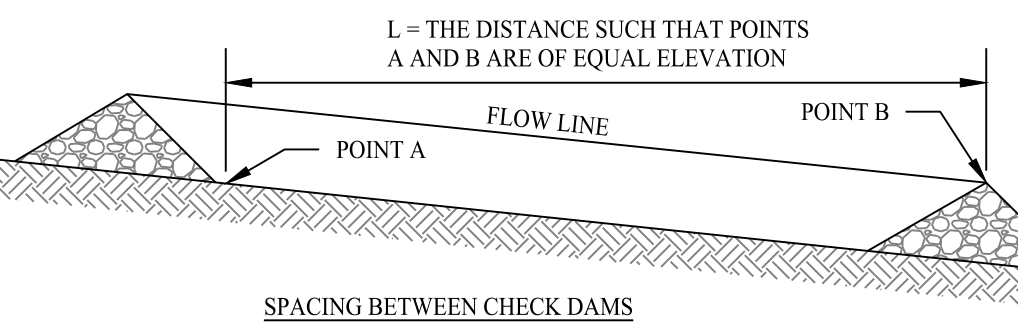
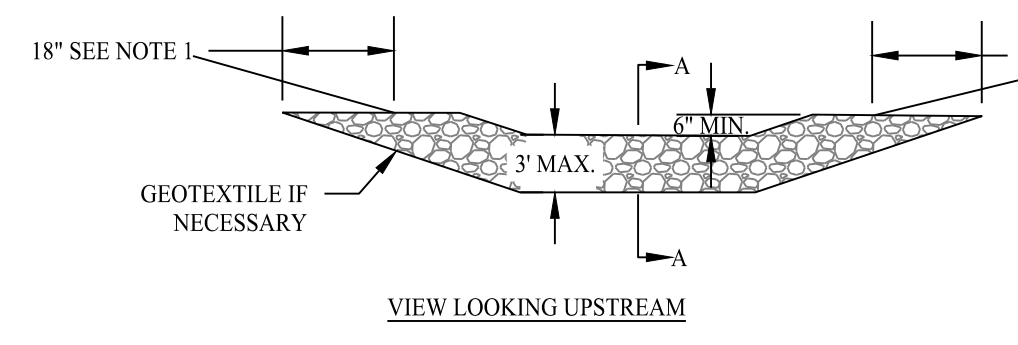


CONN. DOT 2" CRUSHED GRAVEL	ASTM C-33 NO.2	ASTM C-33 NO.3
2 1/2 INCHES	100	90-100
2 INCHES	95-100	35-70
1 1/2 INCHES	35-70	0-15
1 1/4 INCHES	0-25	—
1 INCHES	0-10	0-15
3/4 INCHES	—	—
1/2 INCHES	—	—
3/8 INCHES	—	0-5

SOURCE:  
U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE,  
STORRS, CONNECTICUT

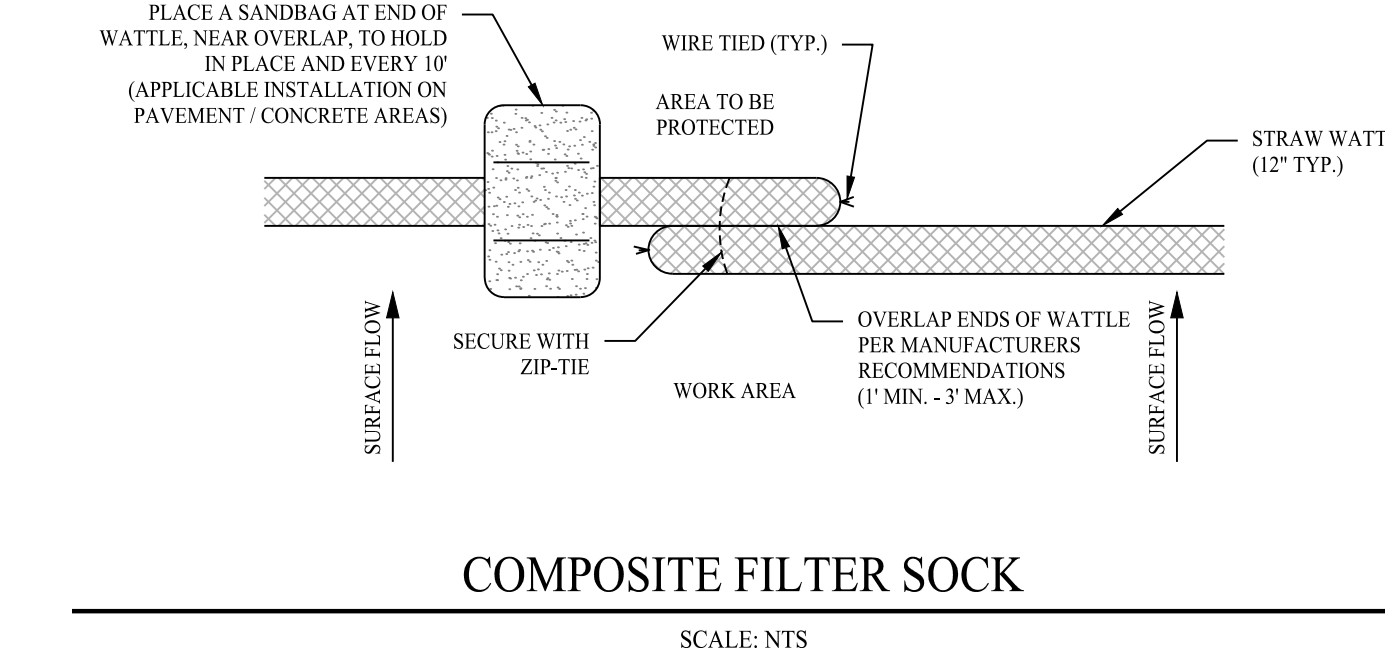
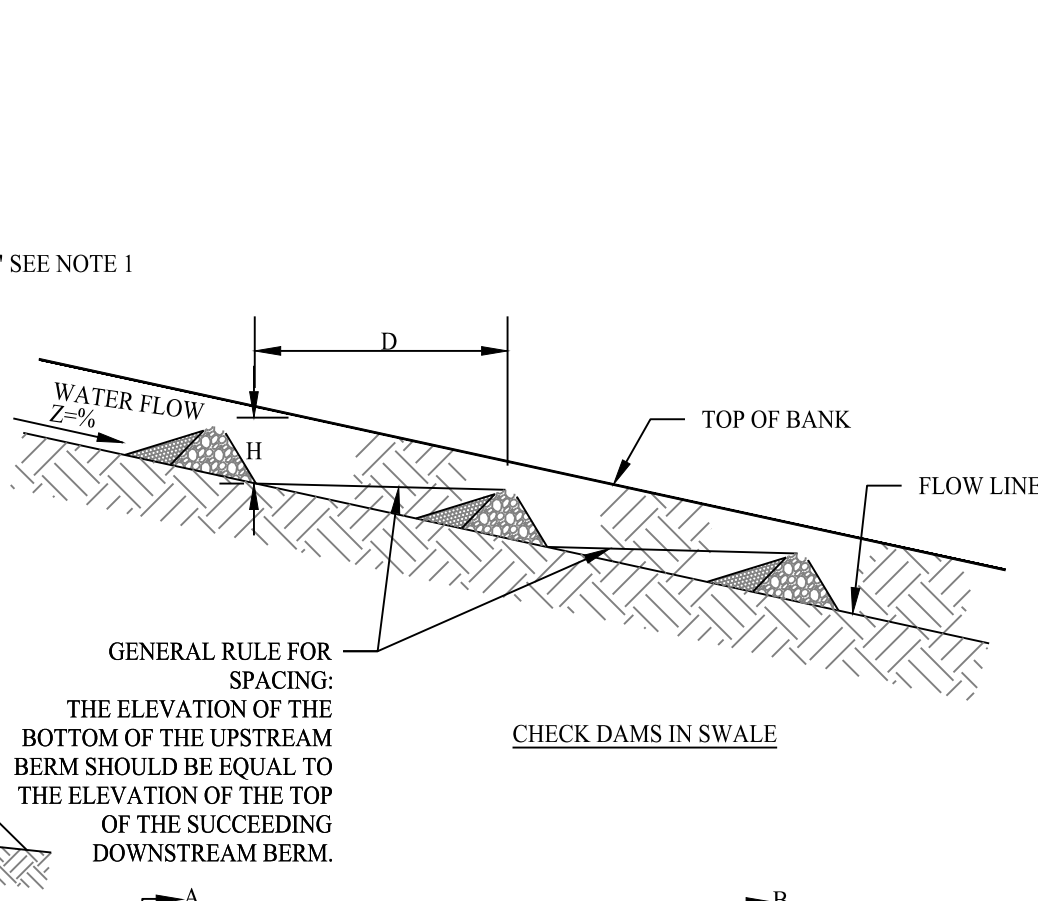
### CONSTRUCTION ENTRANCE

SCALE: NTS



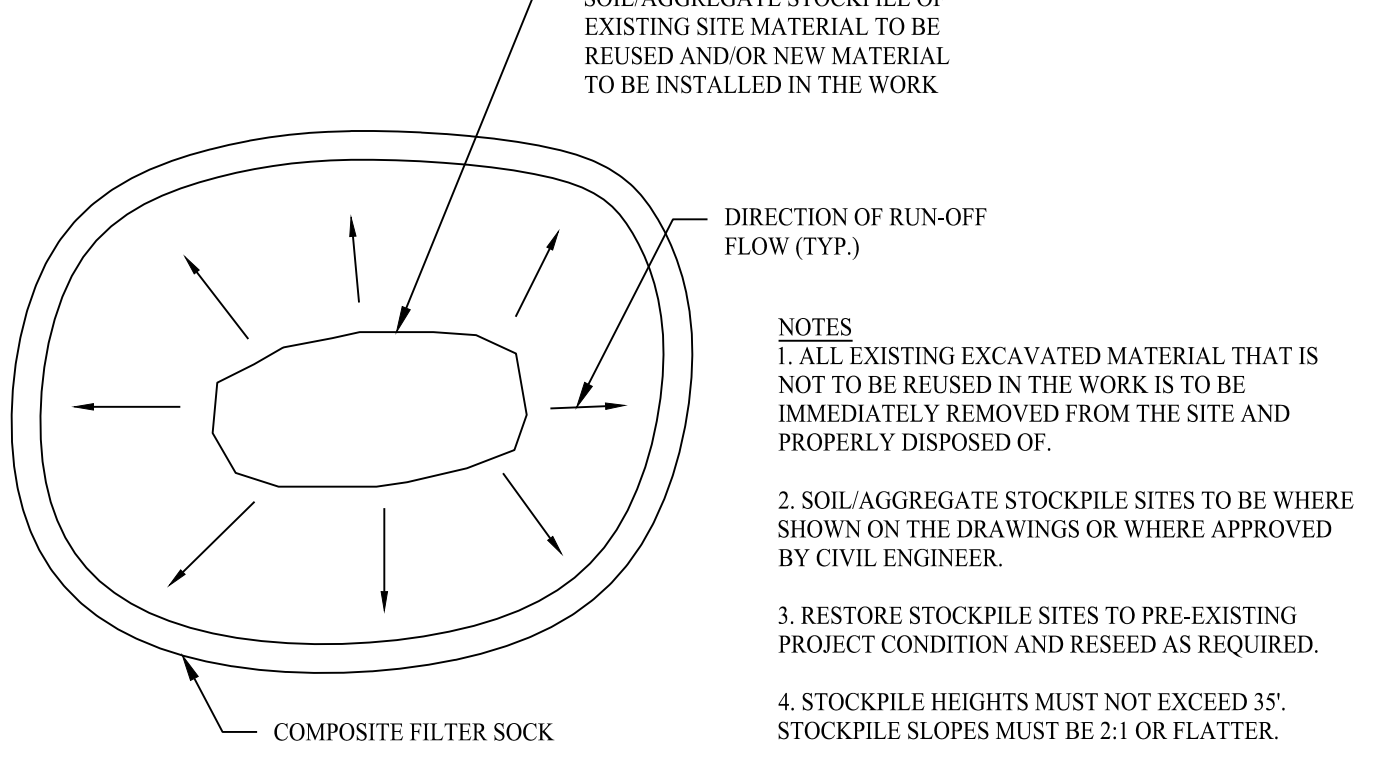
### SILT SACK DETAIL

SCALE: NTS



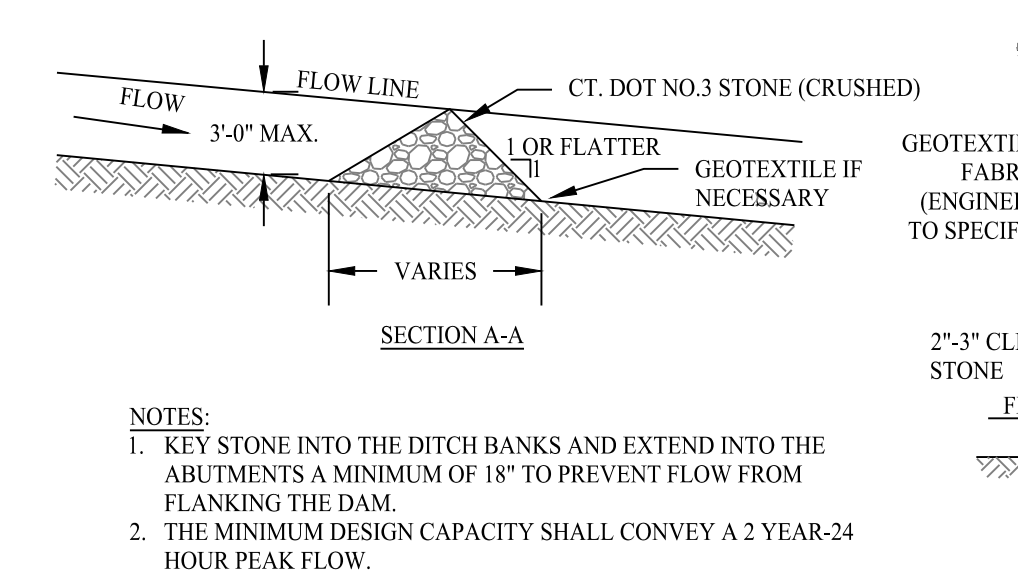
### COMPOSITE FILTER SOCK

SCALE: NTS



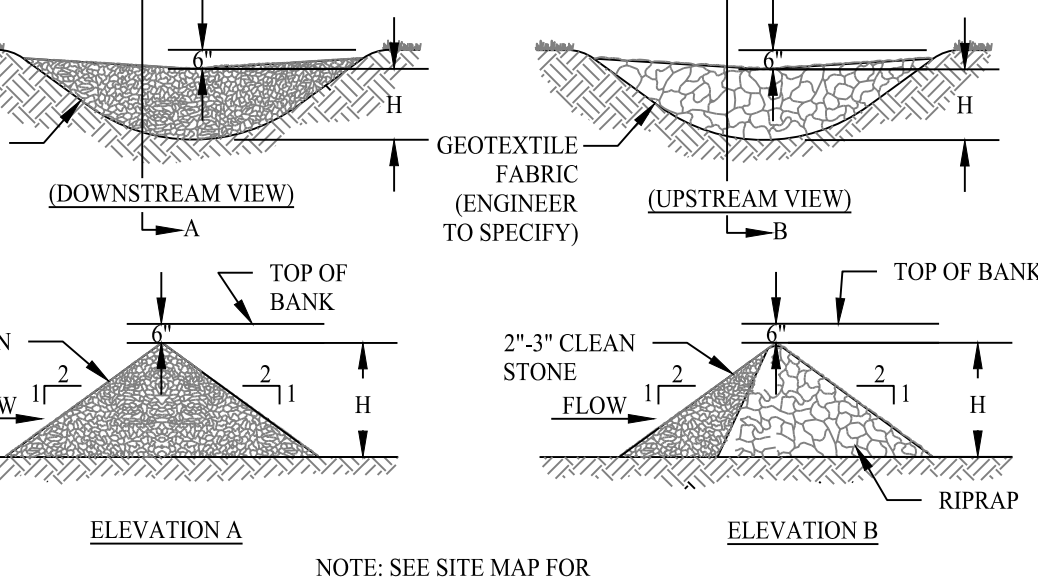
### MATERIALS STOCKPILE DETAIL

SCALE: NTS



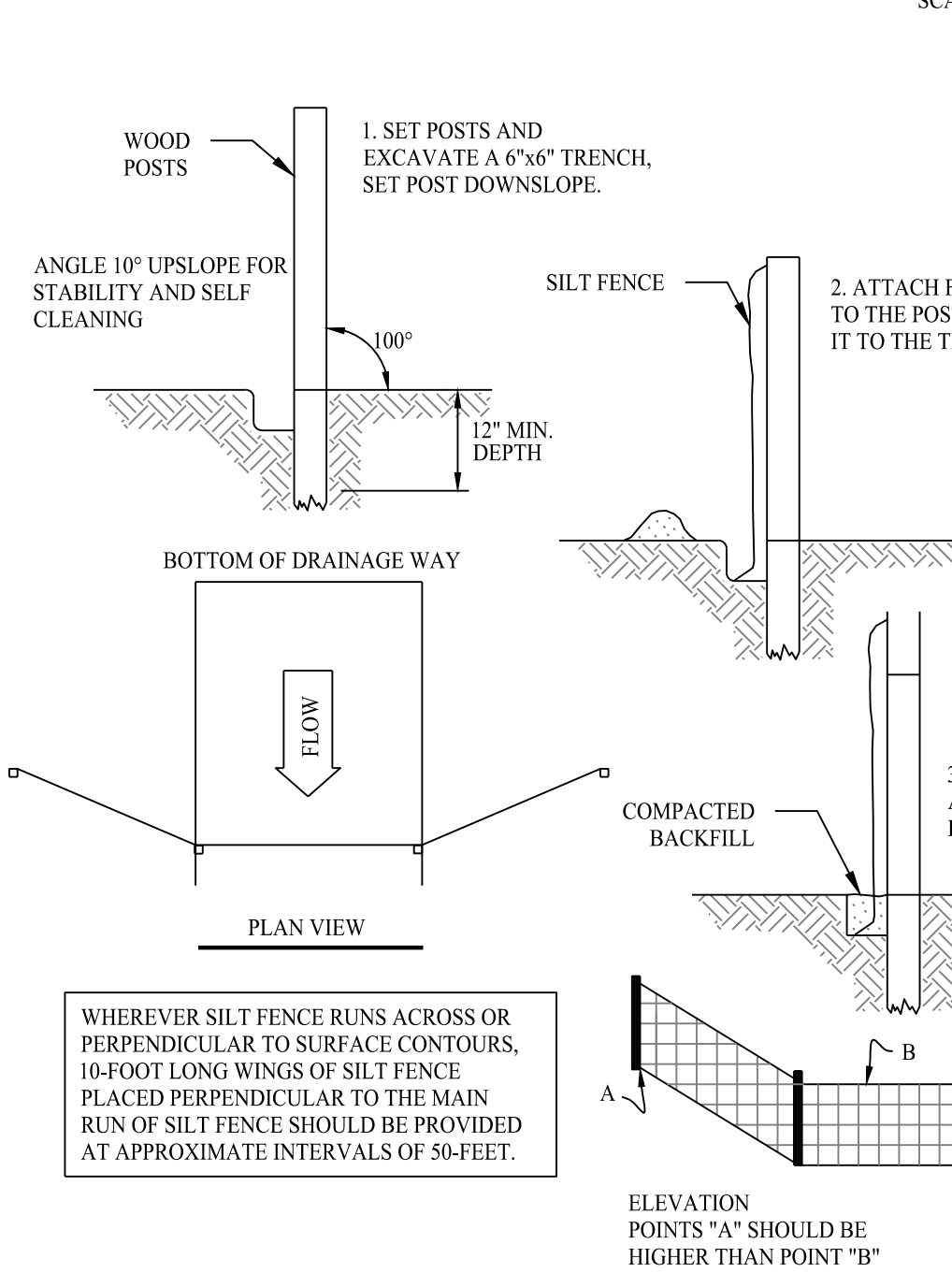
### STONE CHECK DAM DETAIL

SCALE: NTS



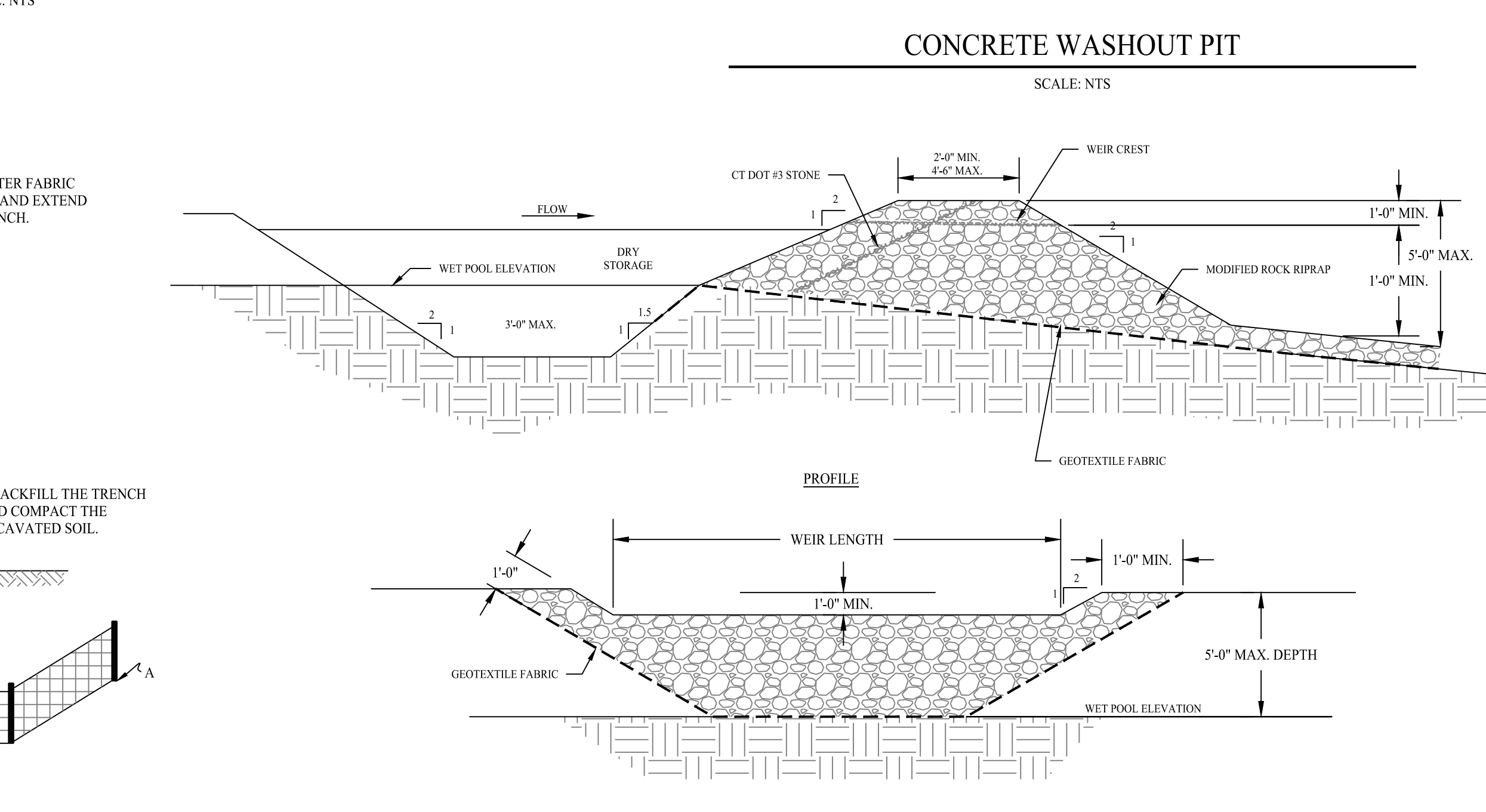
### CONCRETE WASHOUT PIT

SCALE: NTS



### SILT FENCE PROTECTION DETAIL

SCALE: NTS



### EMERGENCY SPILLWAY DETAIL

SCALE: NTS

## SOIL EROSION & SEDIMENT CONTROL NOTES

### SEDIMENT & EROSION CONTROL NARRATIVE

THE SEDIMENT AND EROSION CONTROL PLAN WAS DEVELOPED TO PROTECT THE EXISTING ROADWAY AND STORM DRAINAGE SYSTEMS, ADJACENT PROPERTIES, AND ANY ADJACENT WETLAND AREA AND WATER COURSE FROM SEDIMENT-LADEN SURFACE RUNOFF AND EROSION.

### CONSTRUCTION SCHEDULE

THE ANTICIPATED STARTING DATE FOR CONSTRUCTION IS SUMMER 2023 WITH COMPLETION ANTICIPATED BY SPRING 2024. APPROPRIATE EROSION CONTROL MEASURES AS DESCRIBED HEREIN, SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF ALL SITE CLEARING OR CONSTRUCTION ACTIVITY, SCHEDULE WORK TO MINIMIZE THE LENGTH OF TIME THAT BARE SOIL WILL BE EXPOSED.

### CONTINGENCY EROSION PLAN

THE CONTRACTOR SHALL INSTALL ALL SPECIFIED EROSION CONTROL MEASURES AND WILL BE REQUIRED TO MAINTAIN THEM IN THEIR INTENDED FUNCTIONING CONDITION. THE LAND USE AGENTS OF THE TOWN OF BETHANY AND ENGINEER OF RECORD SHALL HAVE THE AUTHORITY TO REQUIRE SUPPLEMENTAL MAINTENANCE OR ADDITIONAL MEASURES IF FIELD CONDITIONS ARE ENCOUNTERED BEYOND WHAT WOULD NORMALLY BE ANTICIPATED.

### OPERATION REQUIREMENTS

CLEARING, GRUBBING & DEMOLITION OPERATIONS:  
1. ALL SEDIMENTATION AND EROSION CONTROL MEASURES WILL BE INSTALLED PRIOR TO THE START OF CLEARING, GRUBBING AND DEMOLITION OPERATIONS.  
2. FOLLOWING INSTALLATION OF ALL SEDIMENTATION AND EROSION CONTROL MEASURES, THE CONTRACTOR SHALL NOT PROCEED WITH GRADING, FILLING OR OTHER CONSTRUCTION OPERATIONS UNTIL THE ENGINEER OF RECORD HAS INSPECTED AND APPROVED ALL INSTALLATIONS.  
3. THE CONTRACTOR SHALL TAKE EXTREME CARE DURING CLEARING, GRUBBING AND DEMOLITION OPERATIONS, ALL AREAS SHALL BE STABILIZED WITH TOPSOIL AND SEEDING, PROCESSED AGGREGATE STONE OR DISPERSED HAY AS SOON AS PRACTICAL.  
4. FOLLOWING THE COMPLETION OF CLEARING, GRUBBING AND DEMOLITION OPERATIONS, ALL AREAS SHALL BE STABILIZED WITH TOPSOIL AND SEEDING, PROCESSED AGGREGATE STONE OR DISPERSED HAY AS SOON AS PRACTICAL.

### ROUGH GRADING OPERATIONS:

1. DURING THE REMOVAL AND/OR PLACEMENT OF EARTH AS INDICATED ON THE GRADING PLAN, TOPSOIL SHALL BE STRIPPED AND APPROPRIATELY STOCKPILED FOR REUSE.  
2. ALL STOCKPILED TOPSOIL SHALL BE SEEDING, MULCHED WITH HAY, AND ENCLOSED BY A SILTATION FENCE OR COMPOSITE FILTER SOCK.  
3. RESTORE STOCKPILE SITES TO PRE-EXISTING PROJECT CONDITION AND RESEED AS REQUIRED.

### FILLING OPERATIONS:

1. PRIOR TO FILLING, ALL SEDIMENTATION AND EROSION CONTROL DEVICES SHALL BE PROPERLY IMPLEMENTED, MAINTAINED AND FULLY INSTALLED, AS DIRECTED BY THE ENGINEER AND AS SHOWN ON THIS PLAN.  
2. ALL FILL MATERIAL ADJACENT TO ANY WETLAND AREAS, IF APPLICABLE TO THIS PROJECT, SHALL BE GOOD QUALITY, WITH LESS THAN 5% FINES PASSING THROUGH A #200 SIEVE (BANK RUN), SHALL BE PLACED IN LIFT THICKNESS NOT GREATER THAN THAT SPECIFIED IN PROJECT SPECIFICATIONS, LIFTS SHALL BE COMPACTED TO 95% MAX. DRY DENSITY MODIFIED PROCTOR OR AS SPECIFIED IN THE CONTRACT SPECIFICATIONS OR IN THE GEOTECHNICAL REPORT.  
3. AS GENERAL GRADING OPERATIONS PROGRESS, ANY TEMPORARY DIVERSION DITCHES SHALL BE RAISED OR LOWERED, AS NECESSARY, TO DIVERT SURFACE RUNOFF TO THE SEDIMENT TRAPS AND BASIN (IF APPLICABLE).

### PLACEMENT OF DRAINAGE STRUCTURES, UTILITIES, AND ROADWAY CONSTRUCTION OPERATIONS:

1. SILT FENCES SHALL BE INSTALLED AT THE DOWNHILL SIDES OF TEMPORARY TRAPS, MUD PUMP DISCHARGES, AND UTILITY TRENCH MATERIAL STOCKPILES. HAY BALES MAY BE USED IF SHOWN ON THE EROSION CONTROL PLANS OR IF DIRECTED BY THE ENGINEER OF RECORD.  
2. ALL INLET AND OUTLET PROTECTION SHALL BE PLACED AND MAINTAINED AS SHOWN ON EROSION CONTROL PLANS AND DETAILS, AND AS DESCRIBED IN SPECIFICATIONS AND AS DESCRIBED HEREIN.

### FINAL GRADING AND PAVING OPERATIONS:

1. ALL INLET AND OUTLET PROTECTION SHALL BE PLACED AND MAINTAINED AS SHOWN ON EROSION CONTROL PLANS AND DETAILS, AND AS DESCRIBED IN SPECIFICATIONS AND AS DESCRIBED HEREIN.

### OPERATION AND MAINTENANCE OF SEDIMENTATION AND EROSION CONTROL MEASURES

I. SILTATION FENCE:  
A. ALL SILTATION FENCES SHALL BE INSPECTED AS A MINIMUM WEEKLY OR AFTER EACH RAINFALL. ALL DETERIORATED FABRIC AND DAMAGED POSTS SHALL BE REPLACED AND PROPERLY REPOSITIONED IN ACCORDANCE WITH THIS PLAN.  
B. SEDIMENT DEPOSITS SHALL BE REMOVED FROM BEHIND THE FENCE WHEN THEY EXCEED A HEIGHT OF ONE FOOT.  
II. SILT SACK INLET PROTECTION:  
A. ALL SILT SACK INLET PROTECTION DEVICES SHALL BE INSPECTED AS A MINIMUM WEEKLY OR AFTER EACH RAINFALL. ALL DETERIORATED SILT SACKS AND SACKS THAT APPEAR TO HAVE AN EXCESS OF SEDIMENT SHALL BE REPLACED AND PROPERLY REPOSITIONED IN ACCORDANCE WITH THIS PLAN.  
B. SEDIMENT DEPOSITS SHALL BE REMOVED FROM THE SILT SACKS WHEN THEY EXCEED A COUPLE INCHES OF SEDIMENT WITHIN THE CATCH BASIN.  
III. COMPOSITE FILTER SOCK:  
A. ALL COMPOSITE FILTER SOCKS SHALL BE INSPECTED AS A MINIMUM WEEKLY OR AFTER EACH RAINFALL. ALL DETERIORATED FABRIC AND DAMAGED POSTS SHALL BE REPLACED AND PROPERLY REPOSITIONED IN ACCORDANCE WITH THIS PLAN.  
B. SEDIMENT DEPOSITS SHALL BE REMOVED FROM BEHIND THE SOCK WHEN THEY EXCEED A HEIGHT OF 4 INCHES.  
IV. CONSTRUCTION ENTRANCE:  
A. THE CONSTRUCTION ENTRANCE AND FENCE SHALL BE INSPECTED AT A MINIMUM WEEKLY AND AFTER HEAVY RAINS OR HEAVY USE.  
B. CHECK THE STRUCTURE AND ABUTMENTS FOR EROSION, PIPING, OR ROCK DISPLACEMENT AND REPAIR IMMEDIATELY.  
C. REMOVE MUD AND HEAVY SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROAD IMMEDIATELY.  
D. THE GRAVEL PAD SHALL BE TOPPED UP WITH NEW STONE WHEN MUD AND SOIL PARTICLES CLOG THE VOIDS IN THE GRAVEL.  
E. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.  
F. REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY.

### CHECK DAMS:

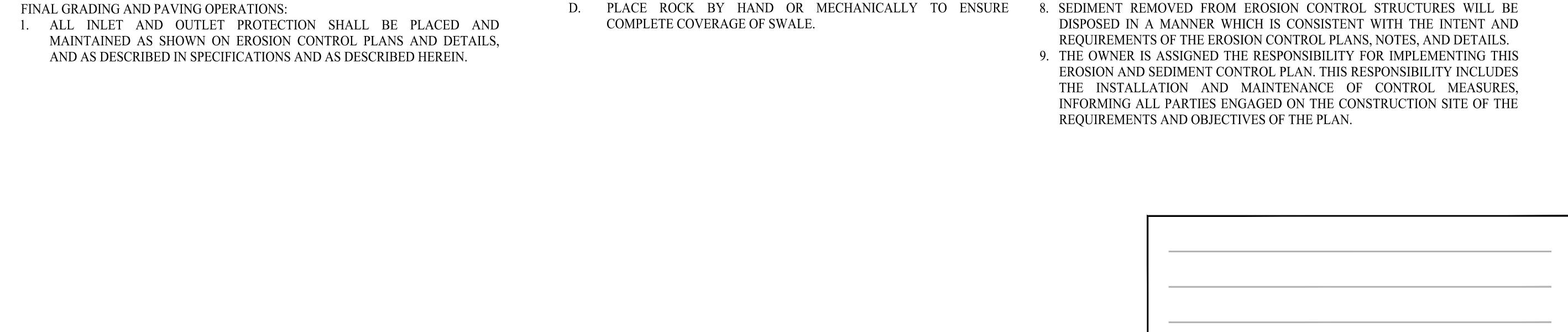
1. CHECK DAMS SHALL BE INSPECTED AS A MINIMUM WEEKLY AND AFTER HEAVY RAINS OR HEAVY USE.  
2. REMOVE SEDIMENT ACCUMULATIONS IN THE CHECK DAM.  
3. CHECK THE STRUCTURE AND ABUTMENTS FOR EROSION, PIPING, OR ROCK DISPLACEMENT AND REPAIR IMMEDIATELY.  
4. REMOVE CHECK DAMS AFTER DRAINAGE AREA HAS BEEN STABILIZED PERMANENTLY.

### EROSION AND SEDIMENT CONTROL PLAN

1. SILTATION FENCE WILL BE INSTALLED AT ALL CULVERT OUTLETS IF CULVERT OUTLETS ARE APPLICABLE TO THIS PROJECT AND ALONG THE TOE OF ALL CRITICAL CUT AND HILL SLOPES.  
2. CULVERT DISCHARGE AREAS WILL BE PROTECTED WITH RIP RAP CHANNELS; ENERGY DISSIPATORS WILL BE INSTALLED AS SHOWN ON THESE PLANS AND AS NECESSARY.  
3. CATCH BASINS WILL BE PROTECTED WITH HAY BALE FILTERS, SILT SACKS, SILTATION FENCE, OR OTHER INLET PROTECTION DEVICES PER DETAILS, THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED.  
4. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL MANUAL, LATEST EDITION.  
5. EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED PRIOR TO CONSTRUCTION WHENEVER POSSIBLE.  
6. ALL CONTROL MEASURES WILL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.  
7. ADDITIONAL CONTROL MEASURES WILL BE INSTALLED DURING THE CONSTRUCTION PERIOD, IF NECESSARY OR REQUIRED OR AS DIRECTED BY THE ENGINEER OF RECORD.  
8. SEDIMENT REMOVED FROM EROSION CONTROL STRUCTURES WILL BE DISPOSED IN A MANNER WHICH IS CONSISTENT WITH THE INTENT AND REQUIREMENTS OF THE EROSION CONTROL PLANS, NOTES, AND DETAILS.  
9. THE OWNER IS ASSIGNED THE RESPONSIBILITY FOR IMPLEMENTING THIS EROSION AND SEDIMENT CONTROL PLAN. THIS RESPONSIBILITY INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN.

### GENERAL NOTES:

1. PROPER DESIGN MUST BE COMPLETED TO MINIMIZE PIPING AROUND DISCHARGE PIPE.  
2. PROPER ORIFICE OPENING MUST BE SELECTED TO INSURE POND DRAINS IN CORRECT AMOUNT OF TIME. MODIFICATIONS MAY BE REQUIRED IF FIELD CONDITIONS WARRANT A CHANGE.  
3. EMERGENCY SPILLWAY MUST BE CORRECTLY SIZED AND EROSION PROTECTION INSTALLED.  
4. EROSION PROTECTION MUST BE INSTALLED ALONG THE EMBANKMENT AND AT THE DISCHARGE END OF THE PIPE.  
5. INSPECT SYSTEM REGULARLY TO ENSURE IT IS FUNCTIONING IN A CORRECT MANNER.  
6. EIGHT SIZES OF SKIMMERS ARE AVAILABLE, REFER TO THE FLOW SHEET, CUT SHEET, AND INSTRUCTIONS ON WEB SITE FOR EACH SIZE.  
7. MAINTAIN DEPRESSION TO MINIMIZE CHANCE OF SKIMMER BECOMING STUCK.



### FAIRCLOTH SKIMMER DISCHARGE SYSTEM

SCALE: NTS PROVIDED BY: J. W. FAIRCLOTH & SON INC.

Rev. #: Date Description

## SOLLI ENGINEERING

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Drawn By: CMH  
Checked By: CJB  
Approved By: KMS  
Project #: 22113201  
Plan Date: 04/18/23  
Scale: NTS  
Kevin Solli, P.E.  
CT 25759

### PROPOSED SOLAR PHOTOVOLTAIC ARRAY

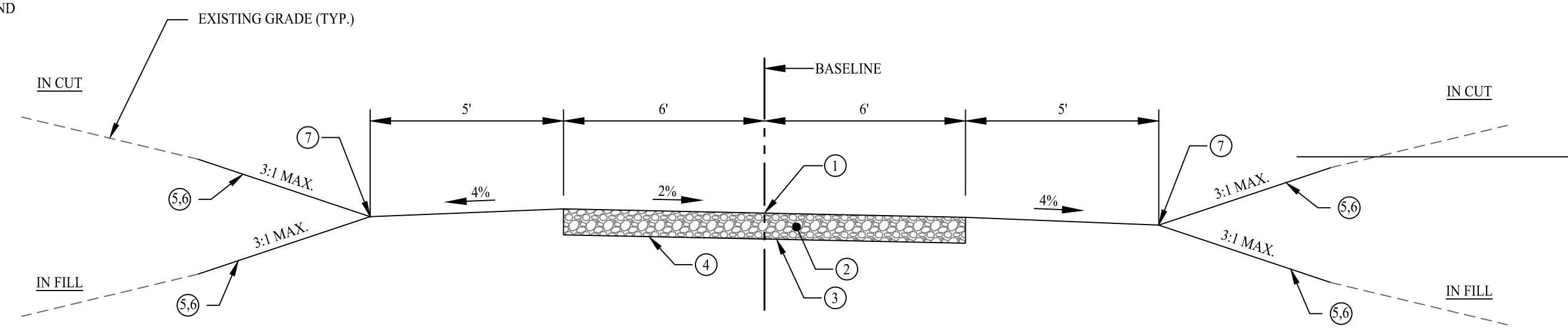
428 BETHMOUR ROAD  
BETHANY, CONNECTICUT

Sheet Title: SOIL EROSION & SEDIMENT CONTROL NOTES & DETAILS

May 22, 2023, 9:26am Anthony  
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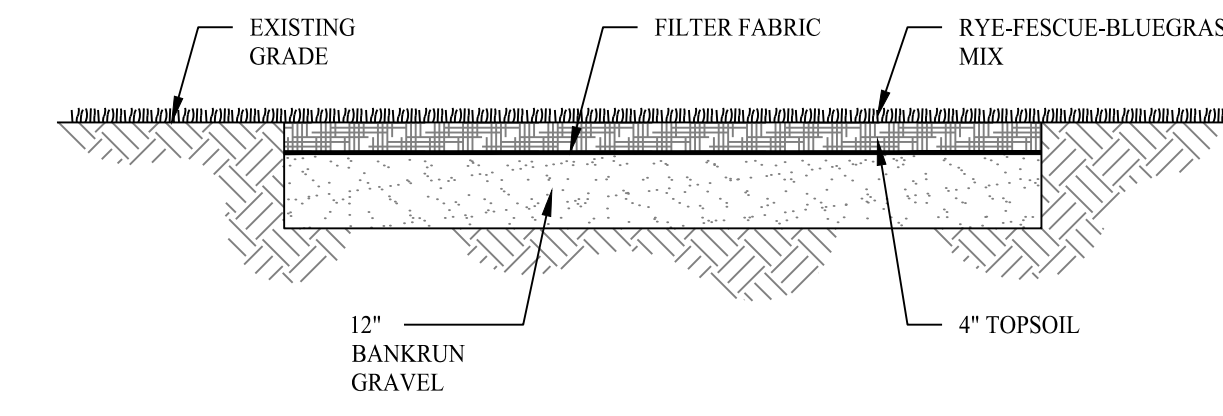
- ① POINT OF APPLICATION OF GRADE OR MATCH EXISTING GROUND
- ② 8" LAYER CRUSHER RUN GRAVEL
- ③ NONWOVEN GEOTEXTILE (MIRAFI 140N OR EQUAL)
- ④ LIMIT OF EXCAVATION OR LIMIT OF COMPACTION
- ⑤ EROSION CONTROL BLANKET ON SLOPES 3:1 OR GREATER
- ⑥ 6" TOPSOIL AND SEED
- ⑦ VEGETATED CHANNEL

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



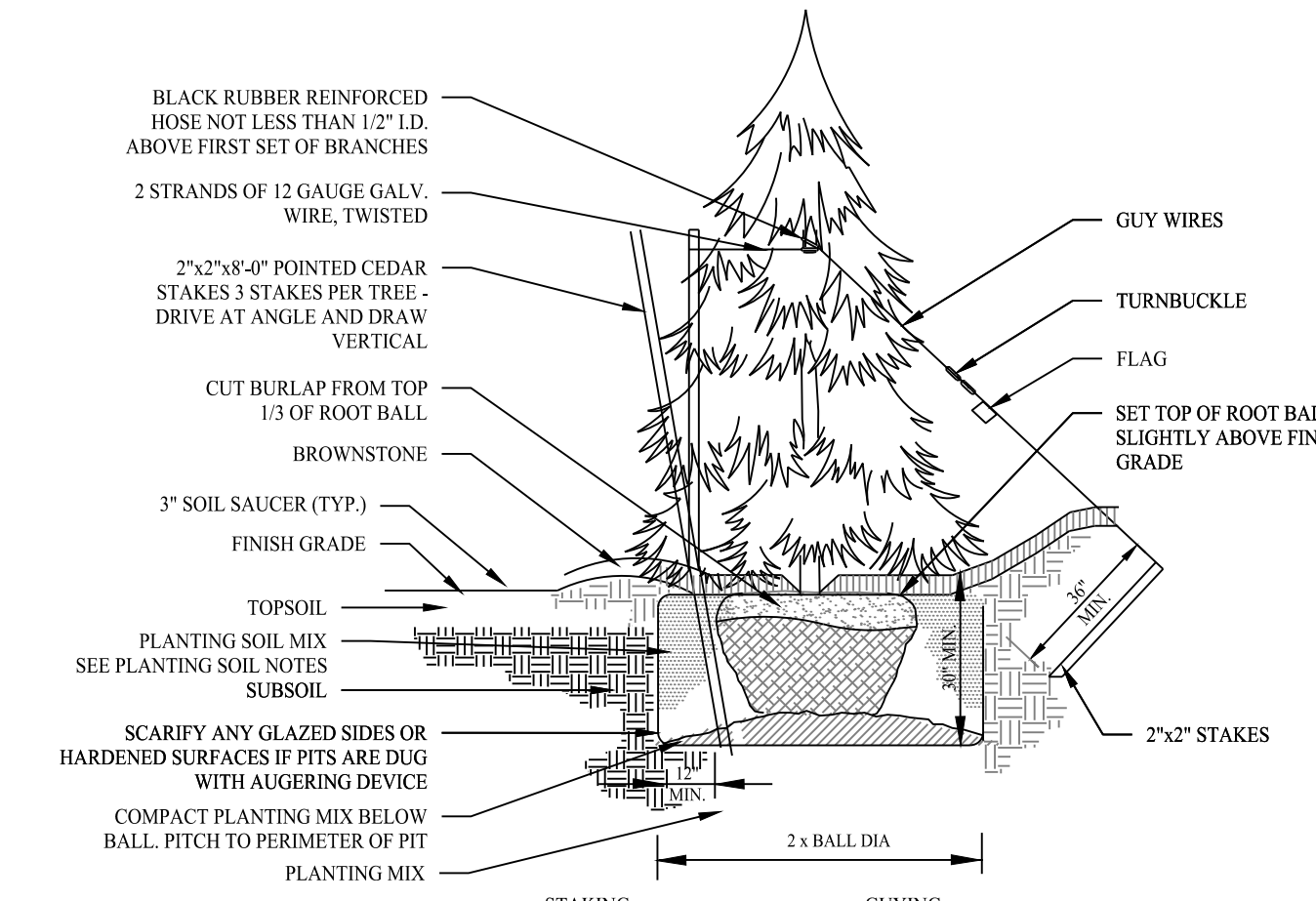
TYPICAL GRAVEL ROADWAY SECTION

SCALE: NTS



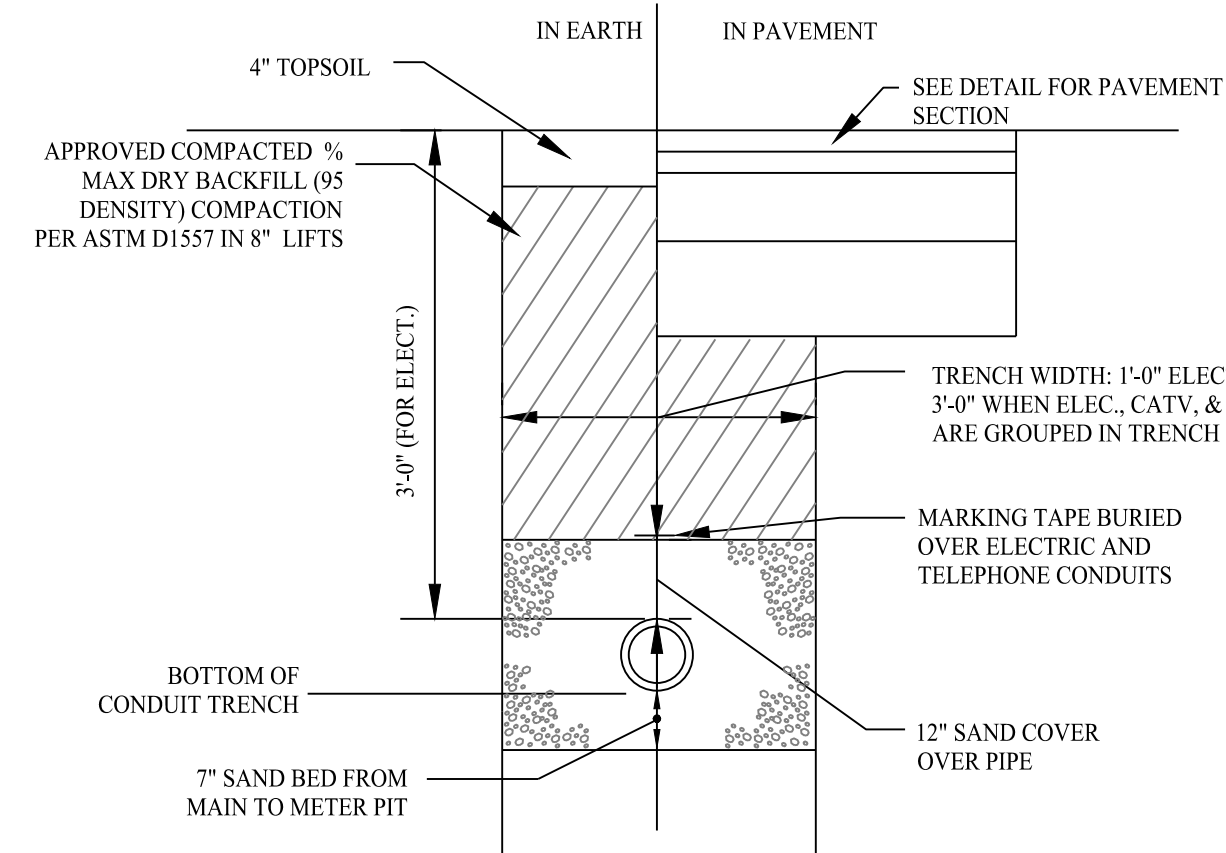
GRASS ACCESS DRIVE

SCALE: NTS



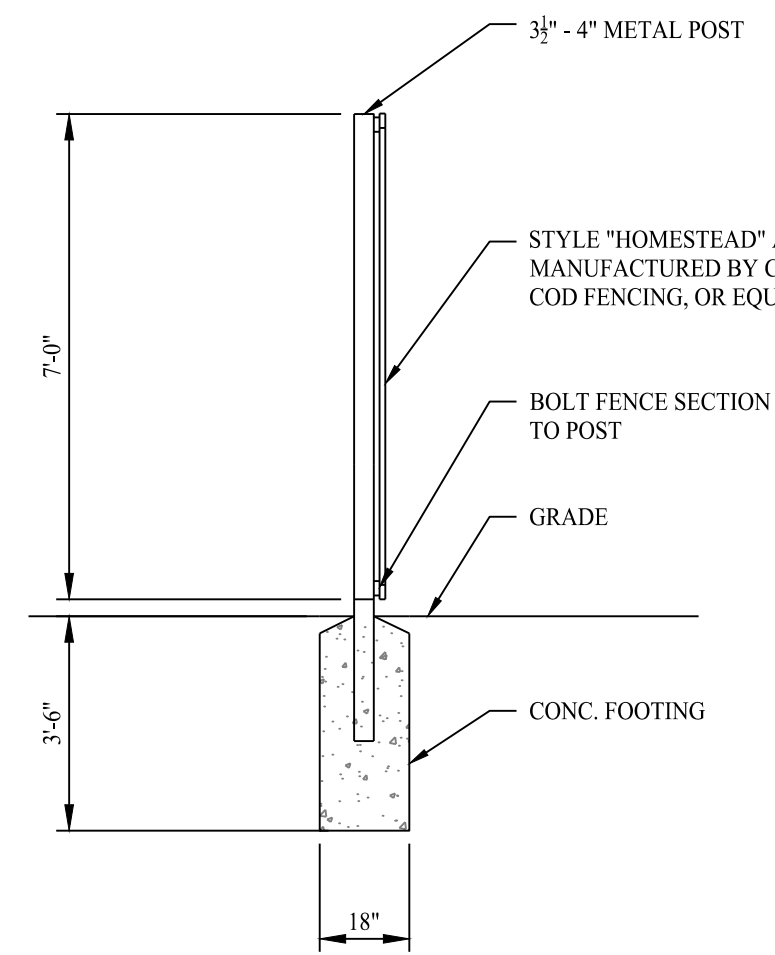
EVERGREEN TREE PLANTING

SCALE: NTS



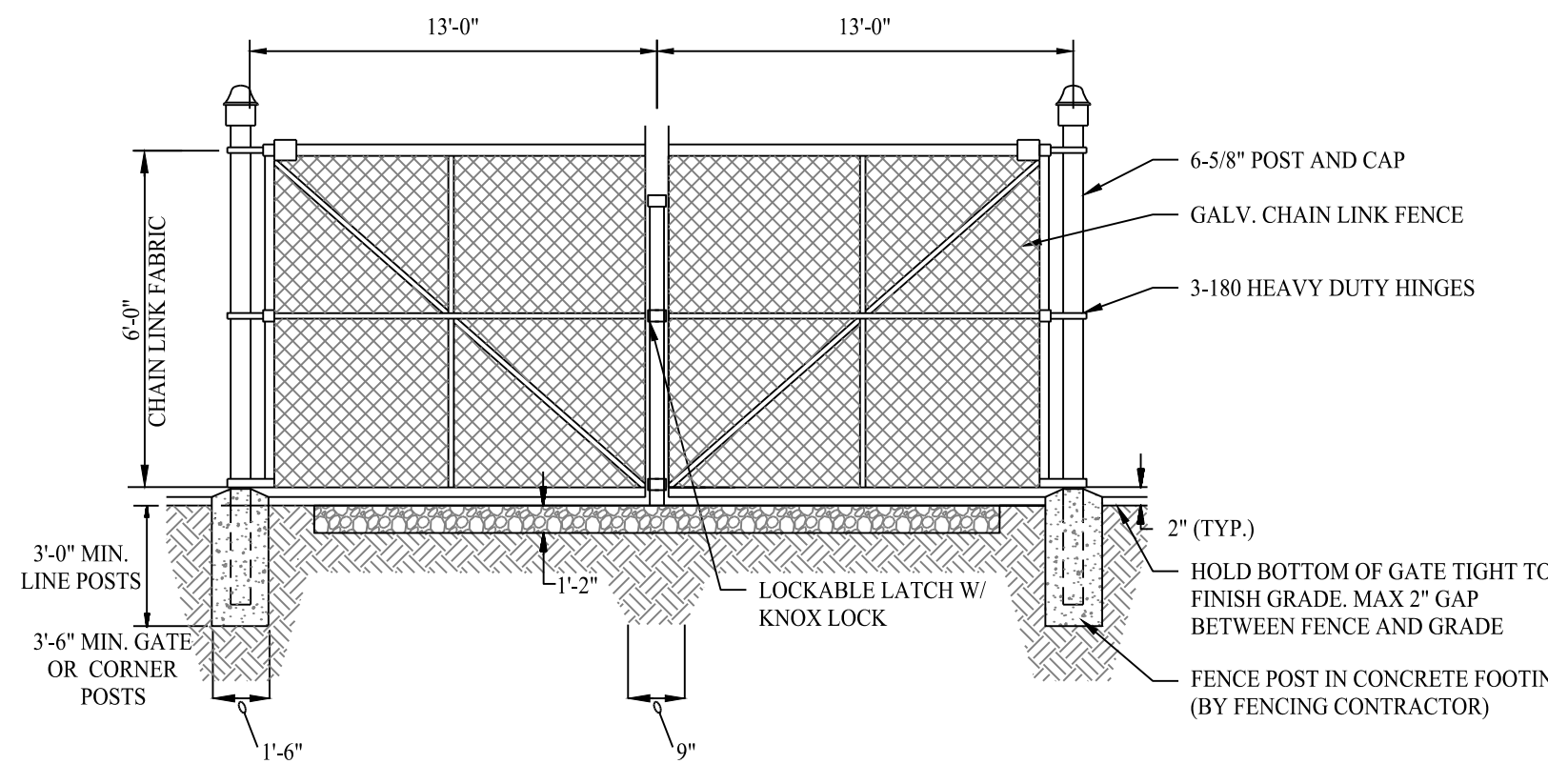
TYPICAL ELECTRICAL/TELEPHONE/CABLE AND GAS TRENCH

SCALE: NTS



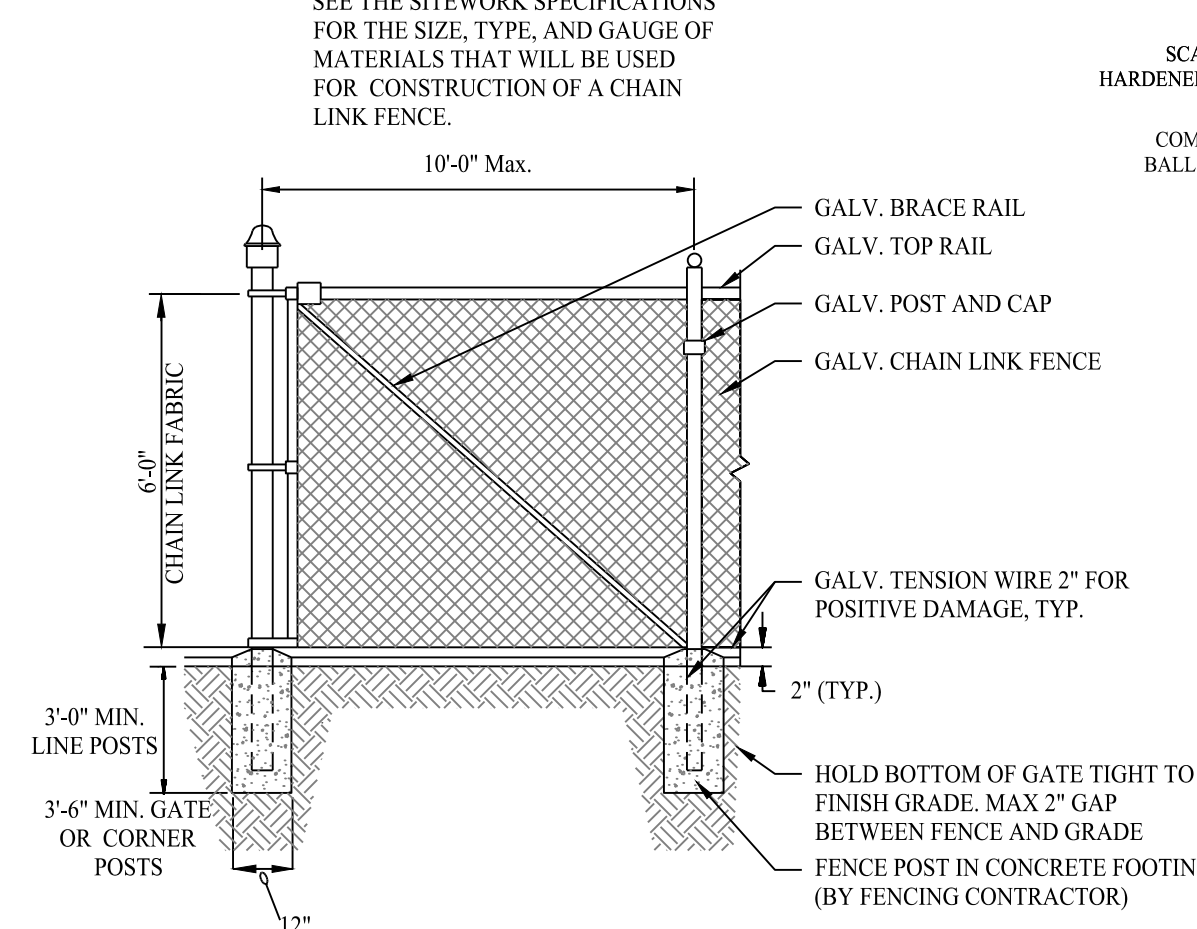
FENCE POST INSTALLATION

SCALE: NTS



DOUBLE SWING GATE DETAIL

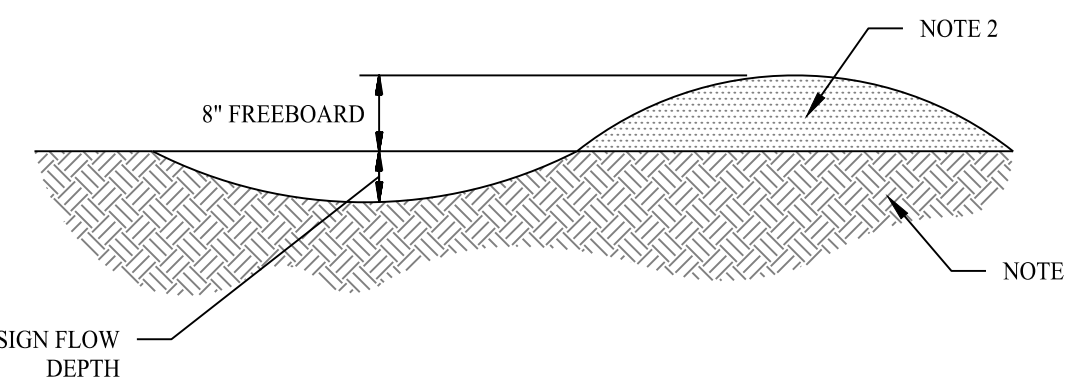
SCALE: NTS



6' HIGH CHAIN LINK FENCE DETAIL

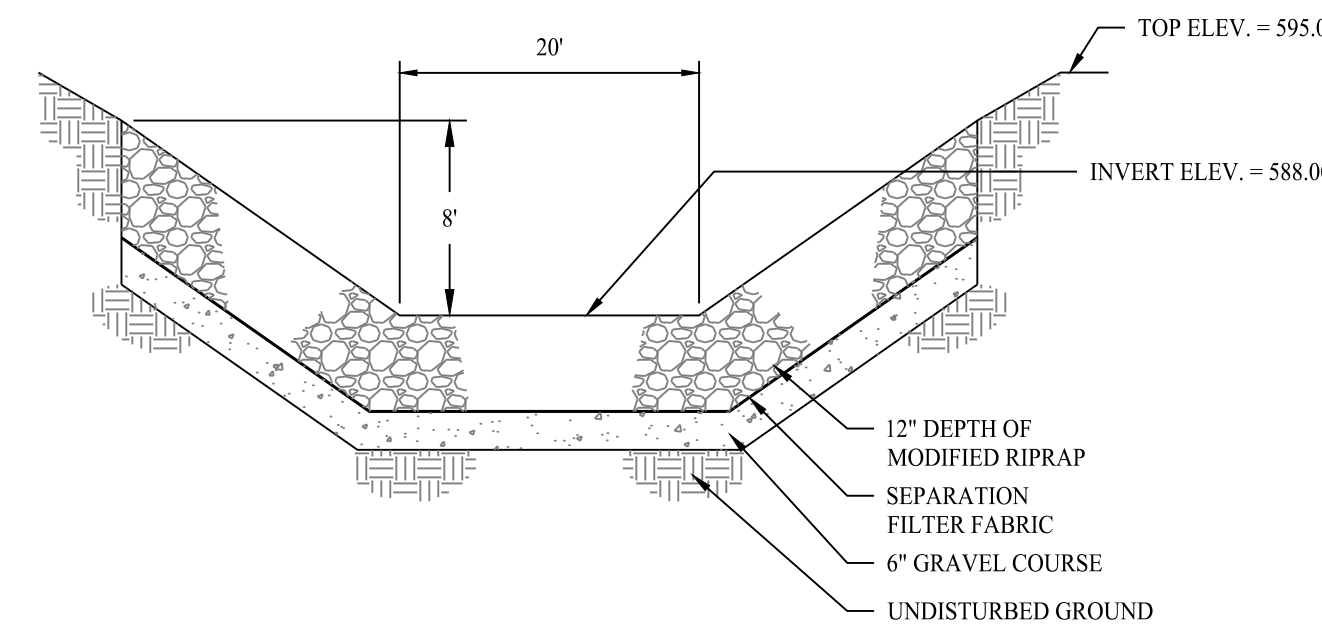
SCALE: NTS

- NOTES:
1. REMOVE ANY EXISTING VEGETATION AND SCARIFY OR BENCH ADJACENT SOILS PRIOR TO PLACING BERM.
  2. BERM MATERIALS MUST BE ADEQUATELY COMPACTED AND STABILIZED.
  3. REFER TO E&S PHASE I & II FOR TEMPORARY AND/OR FINAL STABILIZATION MEASURES.
  4. BERM SHALL NOT BE CONSTRUCTED OF TOPSOIL.



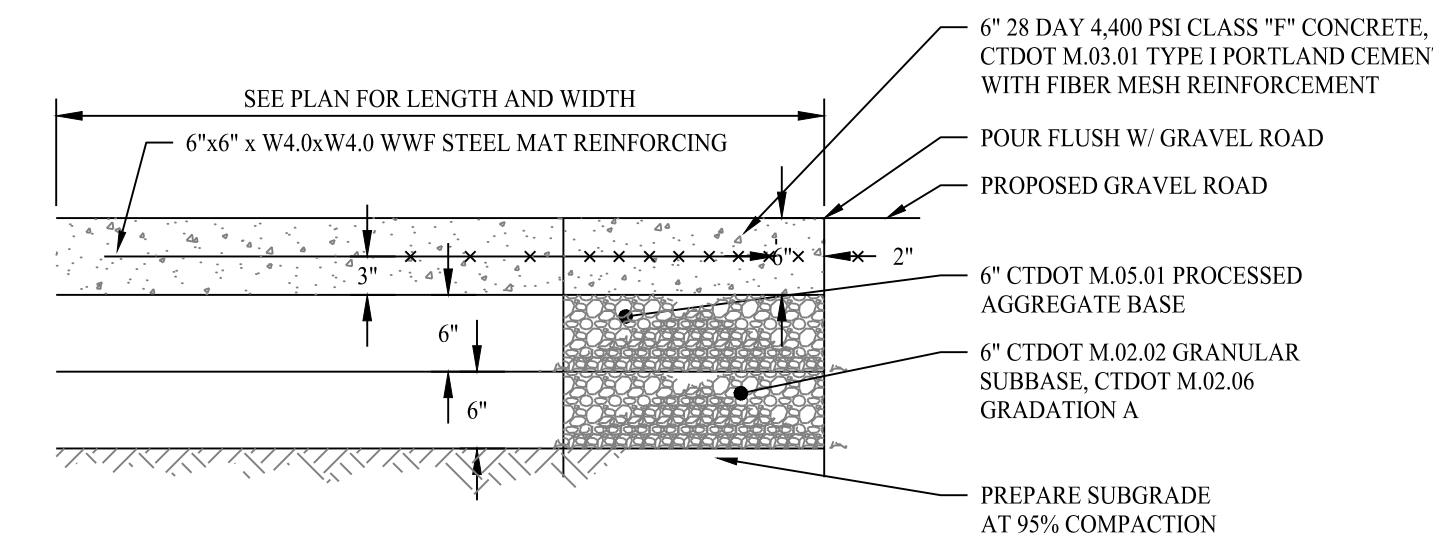
DIVERSION SWALE DETAIL

SCALE: NTS



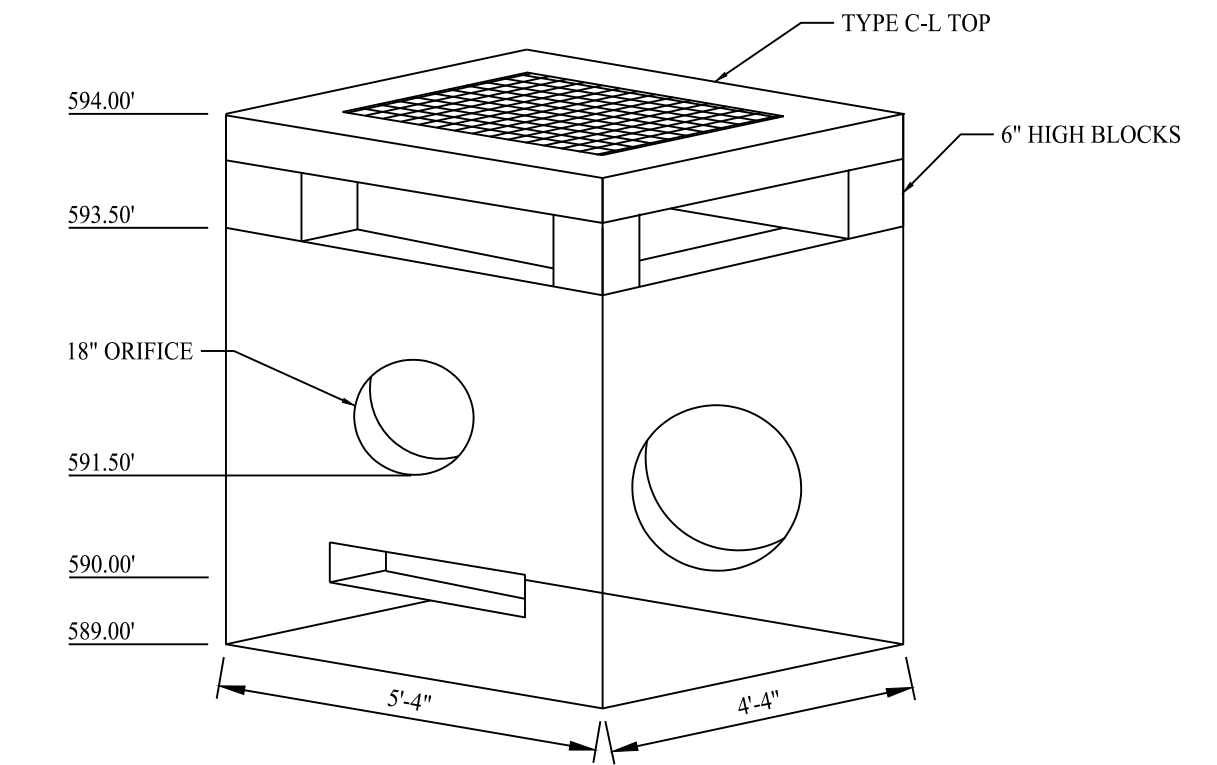
BROADCRESTED WEIR SPILLWAY

SCALE: NTS



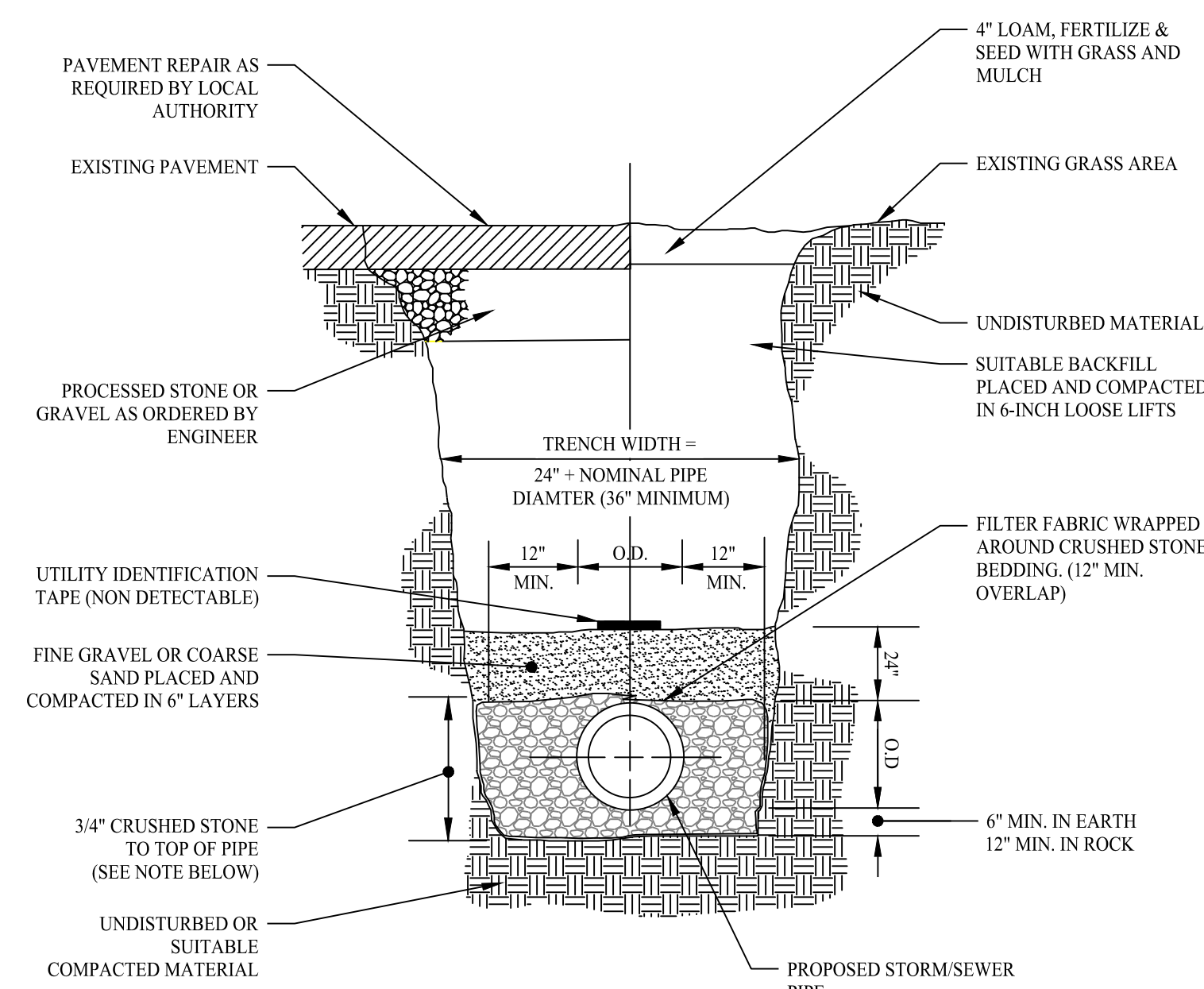
CONCRETE UTILITY PAD

SCALE: NTS



OUTLET CONTROL STRUCTURE

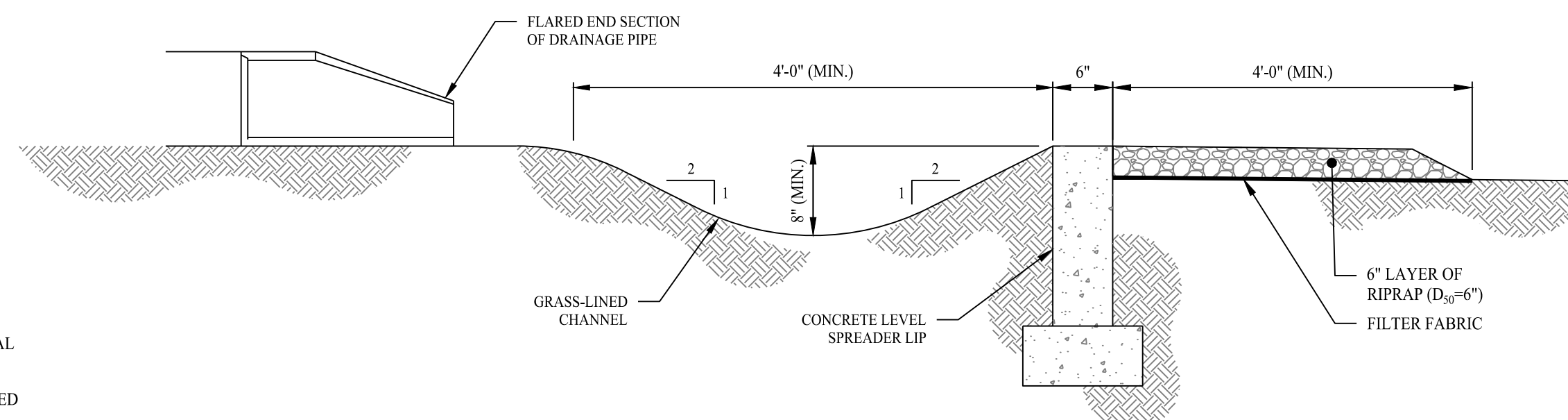
SCALE: NTS



- NOTES:
- SUITABLE BACKFILL TO BE COMPACTED TO 95% MAX. DRY DENSITY IN LIFTS (6\"/>

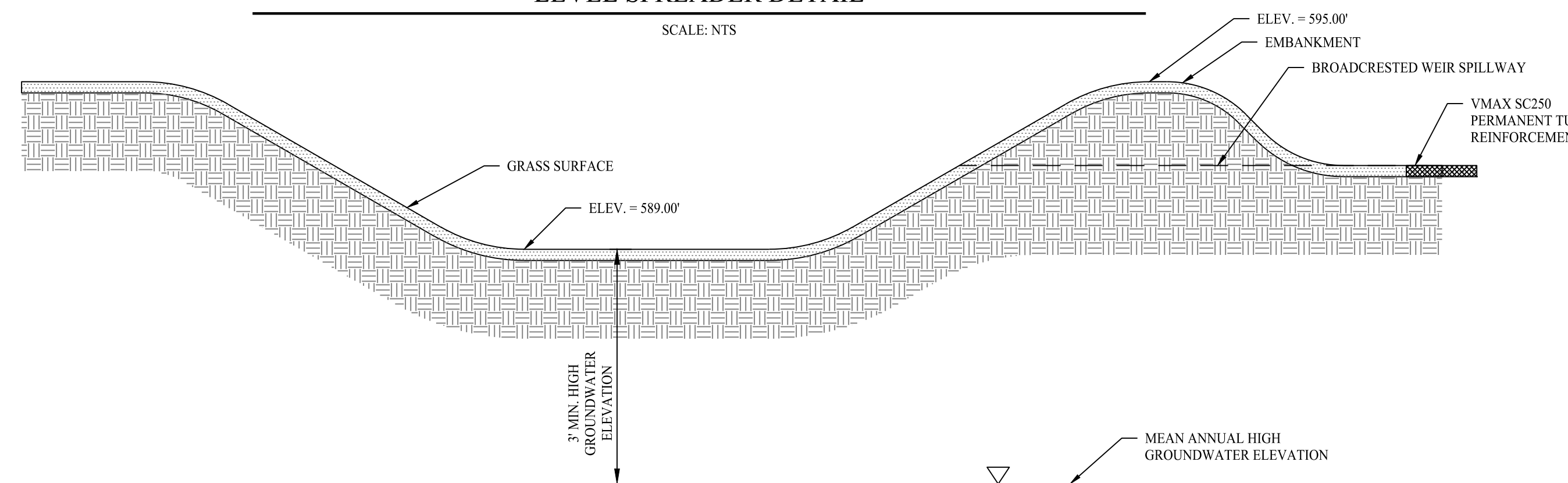
STORM TRENCH SECTION DETAIL

SCALE: NTS



LEVEL SPREADER DETAIL

SCALE: NTS



INFILTRATION BASIN CROSS-SECTION

SCALE: NTS

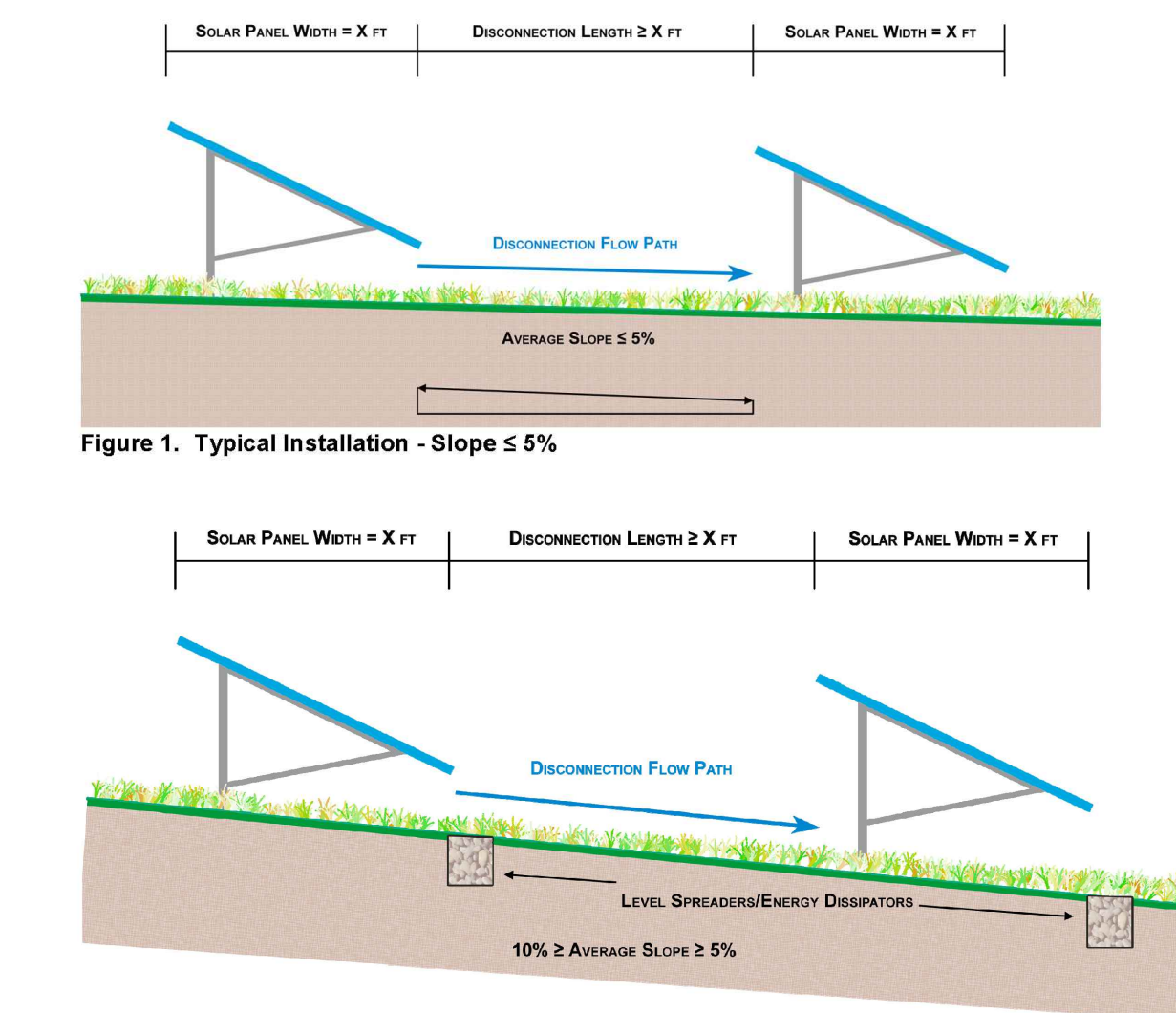


Figure 1. Typical Installation - Slope ≤ 5%

Figure 2. Typical Installation - Slope ≥ 5% but ≤ 10%

SCALE: NTS

DETAIL PER MARYLAND DEPARTMENT OF THE ENVIRONMENT STORMWATER DESIGN GUIDE

Rev. #: \_\_\_\_\_ Date \_\_\_\_\_ Description \_\_\_\_\_

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11 Vanderbilt Ave, Norwood, MA 02062 T: (781) 352-8491 F: (203) 880-9695

Drawn By: CMH  
Checked By: CJB  
Approved By: KMS  
Project #: 22113201  
Plan Date: 04/18/23  
Scale: NTS



Kevin Solli, P.E.  
CT 25759

**PROPOSED SOLAR PHOTOVOLTAIC ARRAY**  
428 BETHMOUR ROAD  
BETHANY, CONNECTICUT

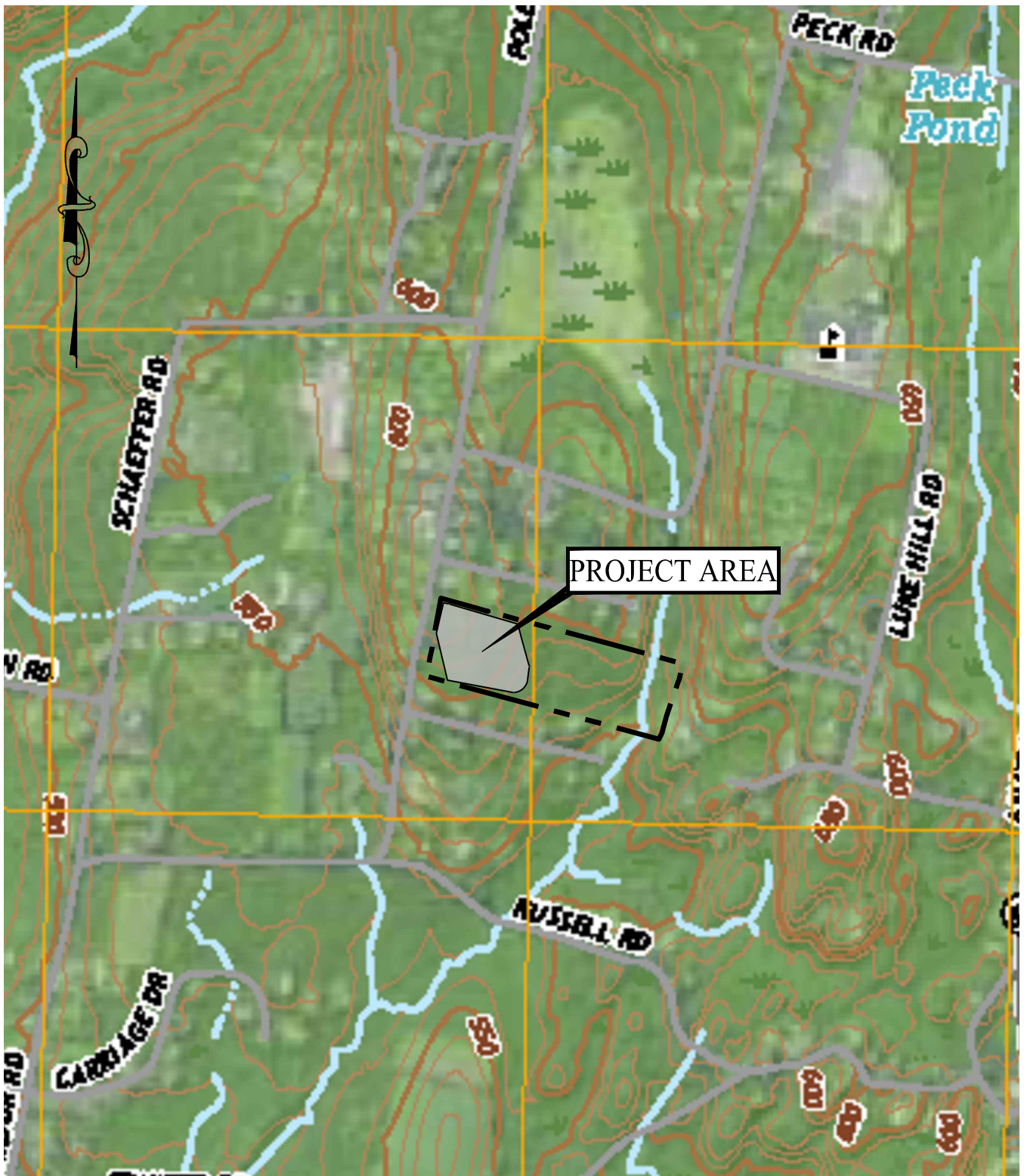
Sheet Title:

Sheet #:

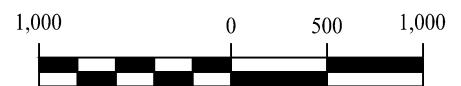
CONSTRUCTION DETAILS

3.01





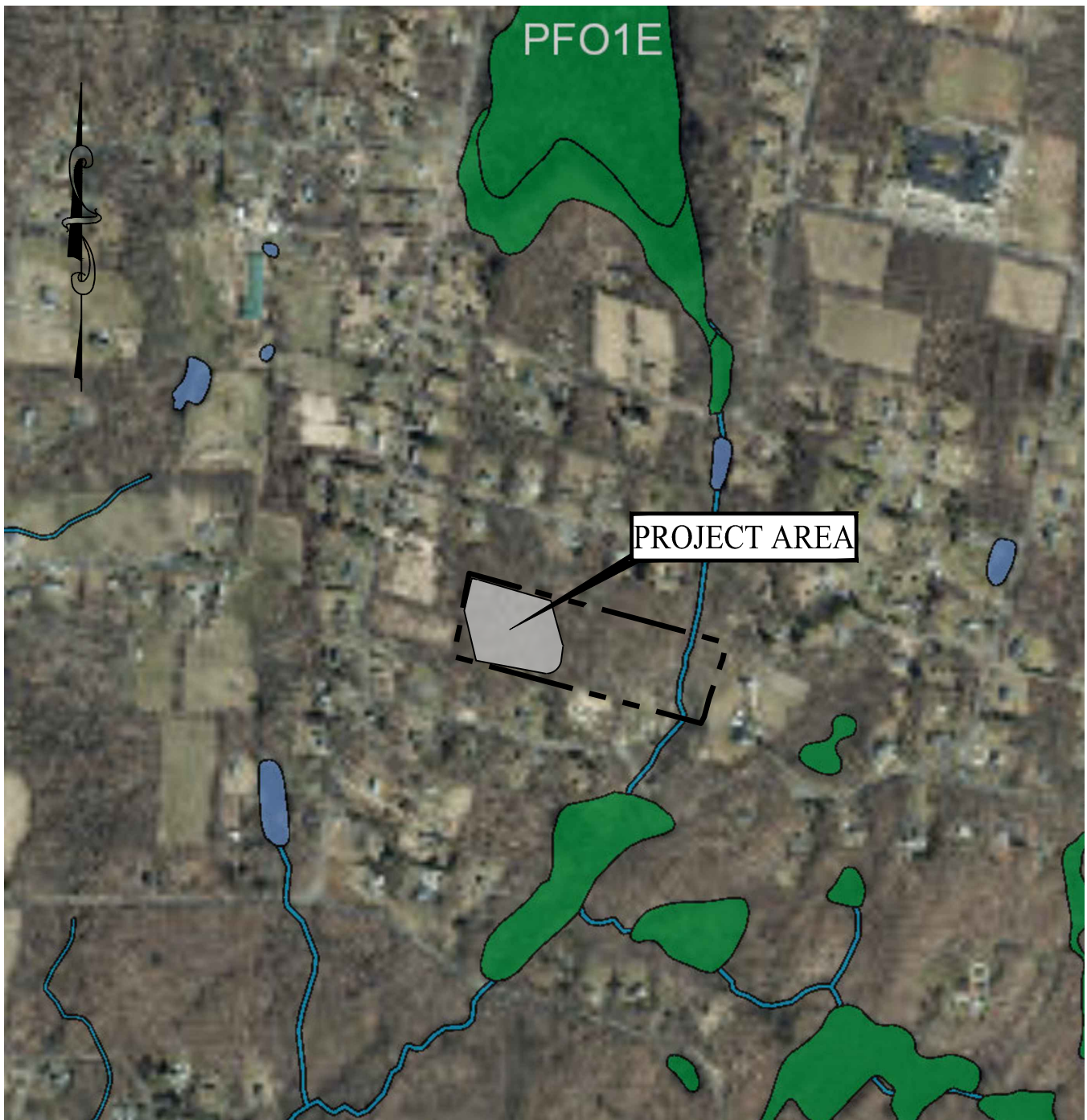
NOTE: BASE MAP INFORMATION TAKEN FROM USGS  
 NAUGATUCK CONNECTICUT QUADRANGLE  
 7.5-MINUTE SERIES. NGA REF. NO. USGSX24K31411



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**SITE LOCATION MAP**  
 428 BETHMOUR ROAD  
 BETHANY, CONNECTICUT

Project #:	22113201
Plan Date:	
Scale:	1" = 1,000'
Figure:	1



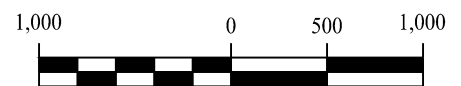
**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

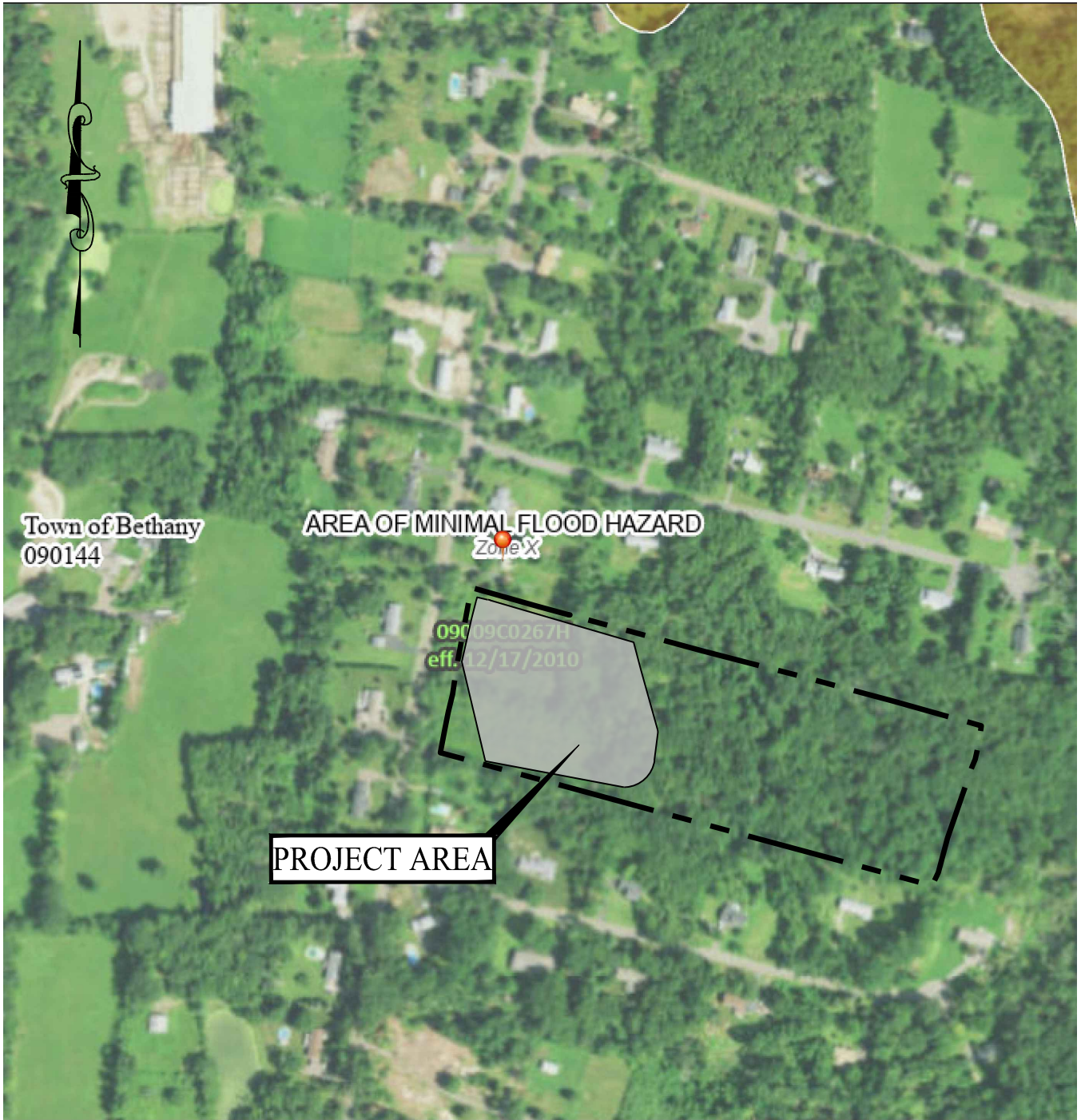
NOTE: BASE MAP INFORMATION TAKEN FROM U.S. FISH AND WILDLIFE SERVICE NATIONAL WETLANDS INVENTORY



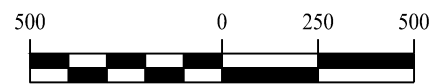
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**WETLANDS &  
WATERCOURSES MAP**  
428 BETHMOUR ROAD  
BETHANY, CONNECTICUT

Project #:	22113201
Plan Date:	
Scale:	1" = 1,000'
Figure:	2



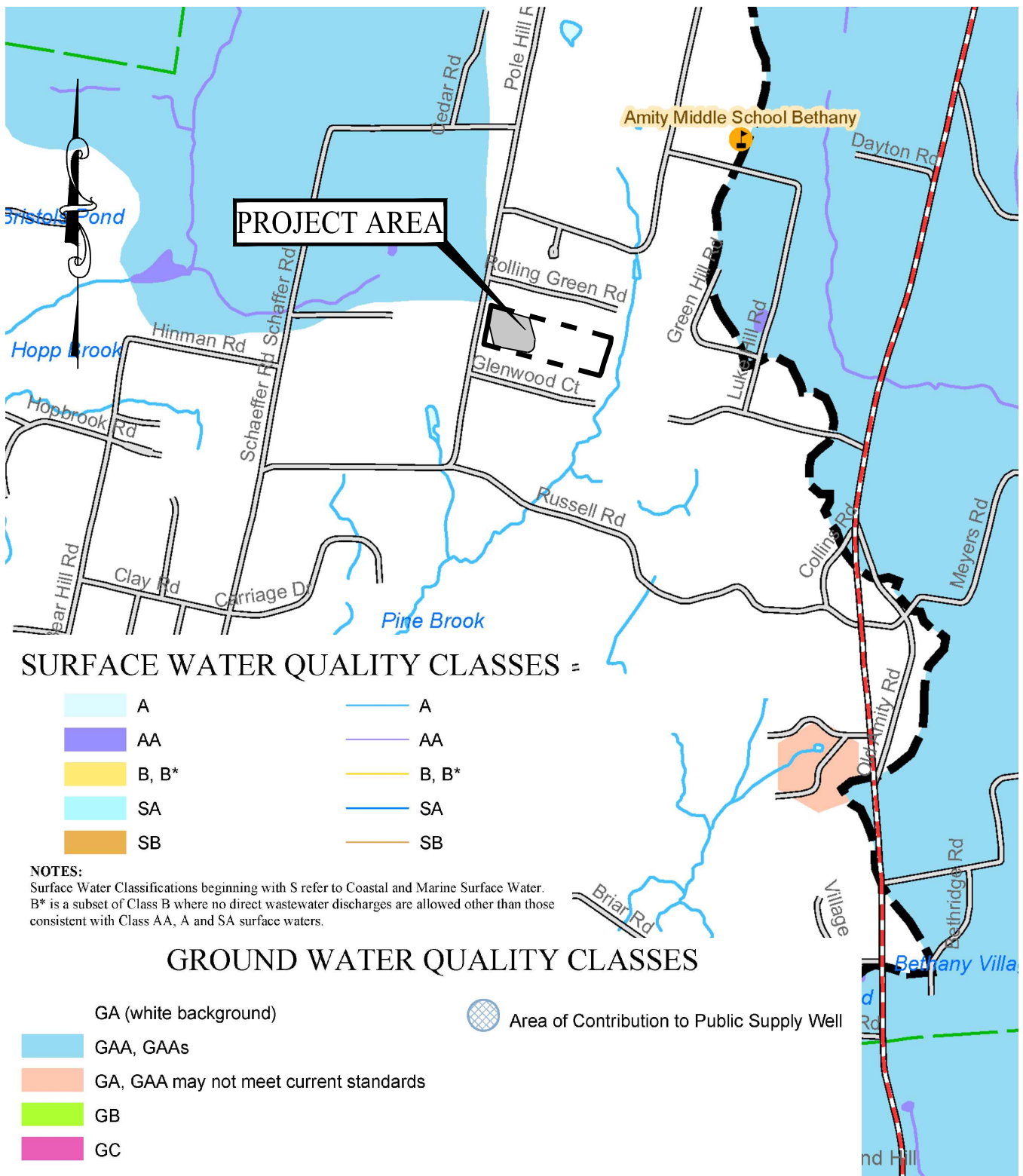
NOTE: BASE MAP INFORMATION TAKEN FROM  
 FEMA FLOOD INSURANCE RATE MAP, MAP  
 NUMBER 09009C0267H, EFFECTIVE 12/17/2010.









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**FEMA FLOOD MAP**  
 428 BETHMOUR ROAD  
 BETHANY, CONNECTICUT

Project #:	22113201
Plan Date:	
Scale:	1" = 500'
Figure:	3

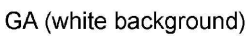







**SURFACE WATER QUALITY CLASSES**

- |   |   |
|---|---|
|  A     |  A     |
|  AA    |  AA    |
|  B, B* |  B, B* |
|  SA    |  SA    |
|  SB    |  SB    |

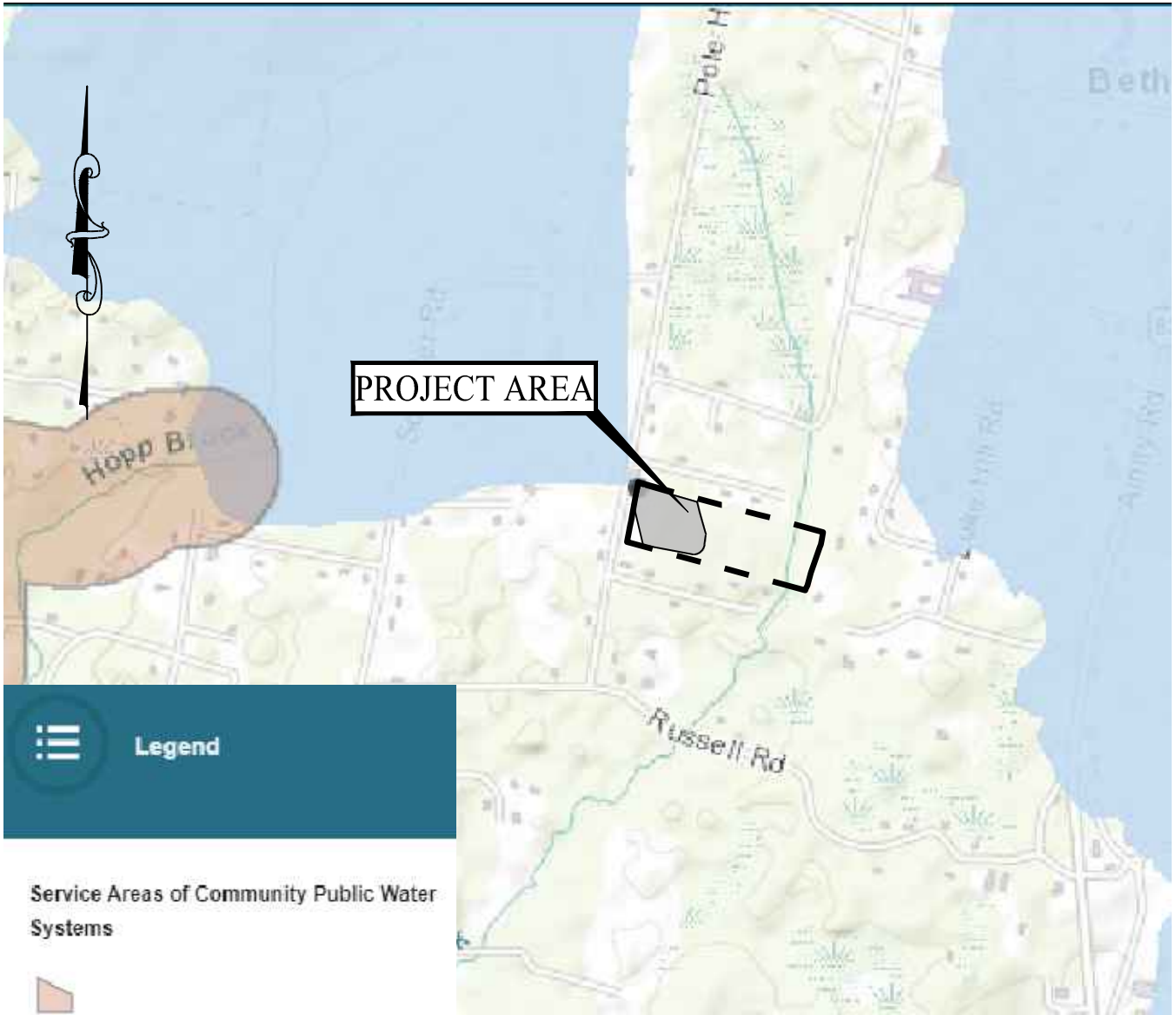
**NOTES:**  
 Surface Water Classifications beginning with S refer to Coastal and Marine Surface Water.  
 B\* is a subset of Class B where no direct wastewater discharges are allowed other than those consistent with Class AA, A and SA surface waters.

**GROUND WATER QUALITY CLASSES**

- |  |  |
|--|--|
|  GA (white background)                  |  Area of Contribution to Public Supply Well |
|  GAA, GAAs                              |  |
|  GA, GAA may not meet current standards |  |
|  GB                                     |  |
|  GC                                     |  |

NOTE: BASE MAP INFORMATION TAKEN FROM CT DEEP, DATED: OCTOBER, 2018.





☰ Legend

**Service Areas of Community Public Water Systems**



**Aquifer Protection Areas**



**Drinking Water Watersheds**



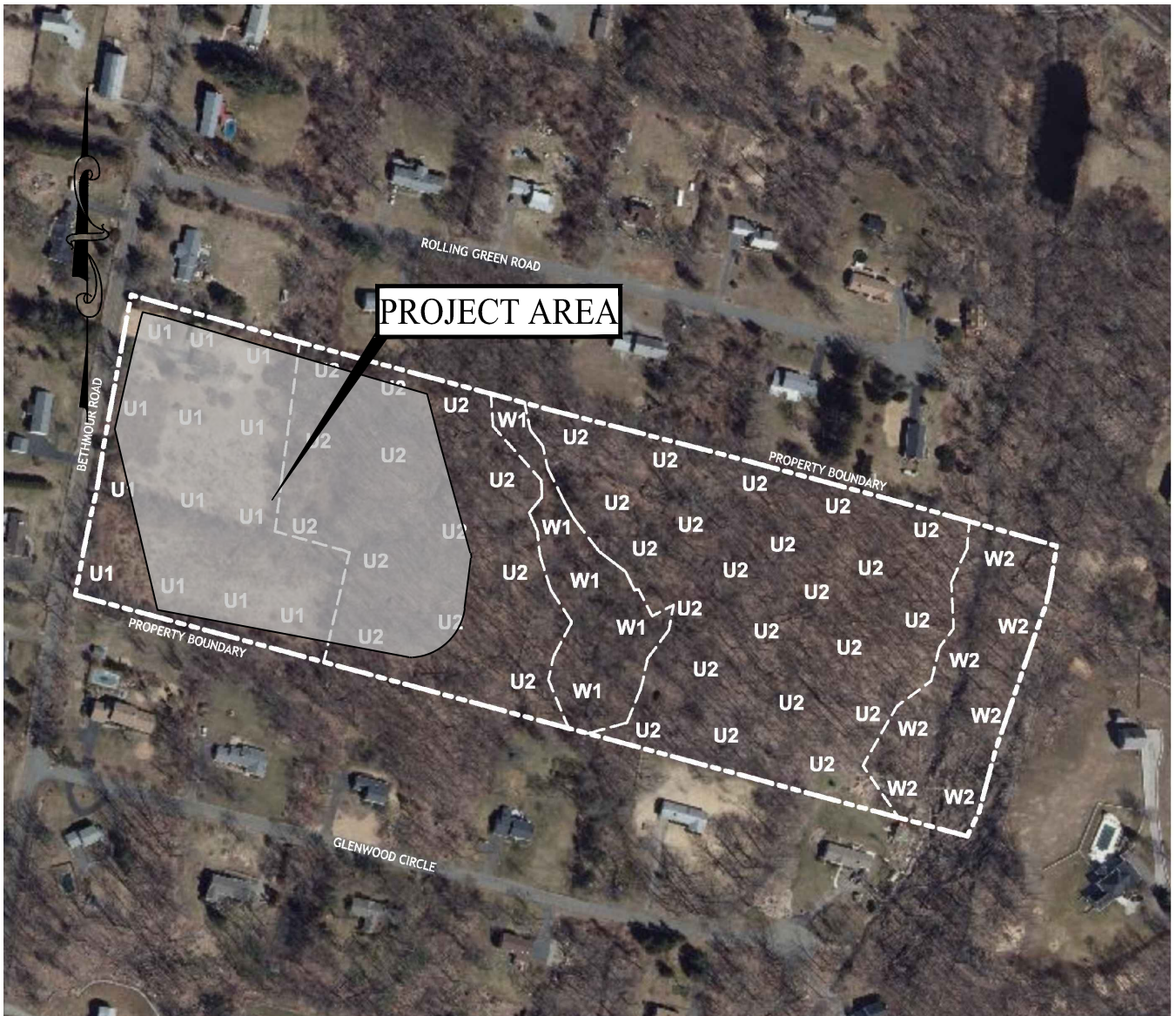
NOTE: BASE MAP INFORMATION TAKEN FROM CONNECTICUT STATE DEPARTMENT OF PUBLIC HEALTH GIS MAP.



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**PUBLIC SUPPLY  
WATERSHED MAP**  
428 BETHMOUR ROAD  
BETHANY, CONNECTICUT

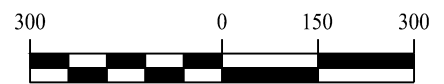
Project #:	22113201
Plan Date:	
Scale:	1" = 1,500'
Figure:	5



**ECOLOGICAL COMMUNITY**

SYM.	NAME
<b>UPLAND</b>	
U1	SHRUBLAND
U2	WOODLAND
<b>WETLAND</b>	
W1	WOODLAND WETLAND WITH INTERMITTENT WATERCOURSE
W2	WOODLAND WETLAND WITH STREAM (PINE BROOK)

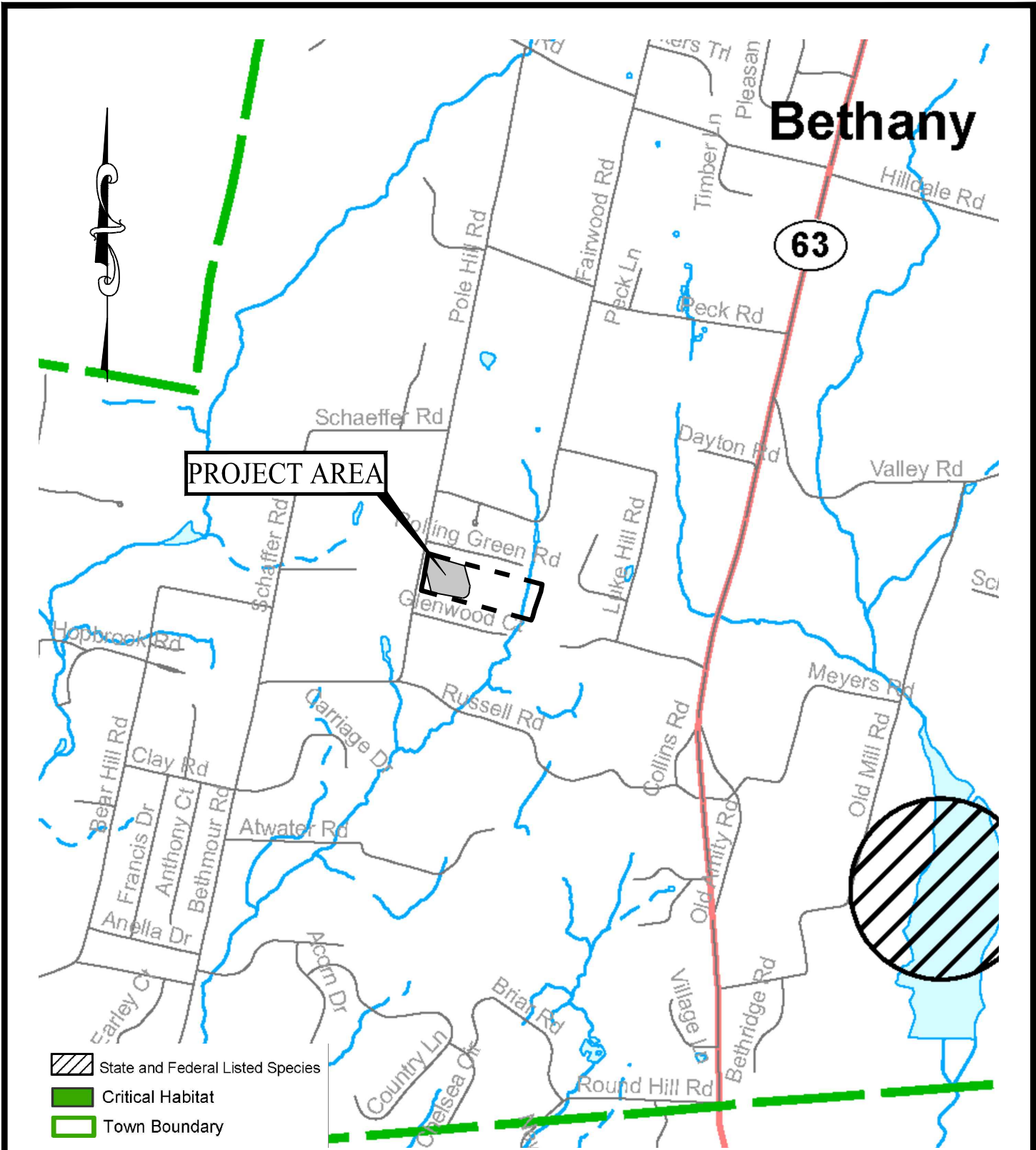
NOTE: BASE MAP INFORMATION TAKEN FROM  
 ECOLOGICAL COMMUNITIES MAP PREPARED BY  
 WILLIAM KENNY ASSOCIATES



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**HABITAT COVER MAP**  
 428 BETHMOUR ROAD  
 BETHANY, CONNECTICUT




Project #: 22113201  
 Plan Date:  
 Scale: 1" = 300'  
 Figure: 6



# Bethany

63

PROJECT AREA

-  State and Federal Listed Species
-  Critical Habitat
-  Town Boundary

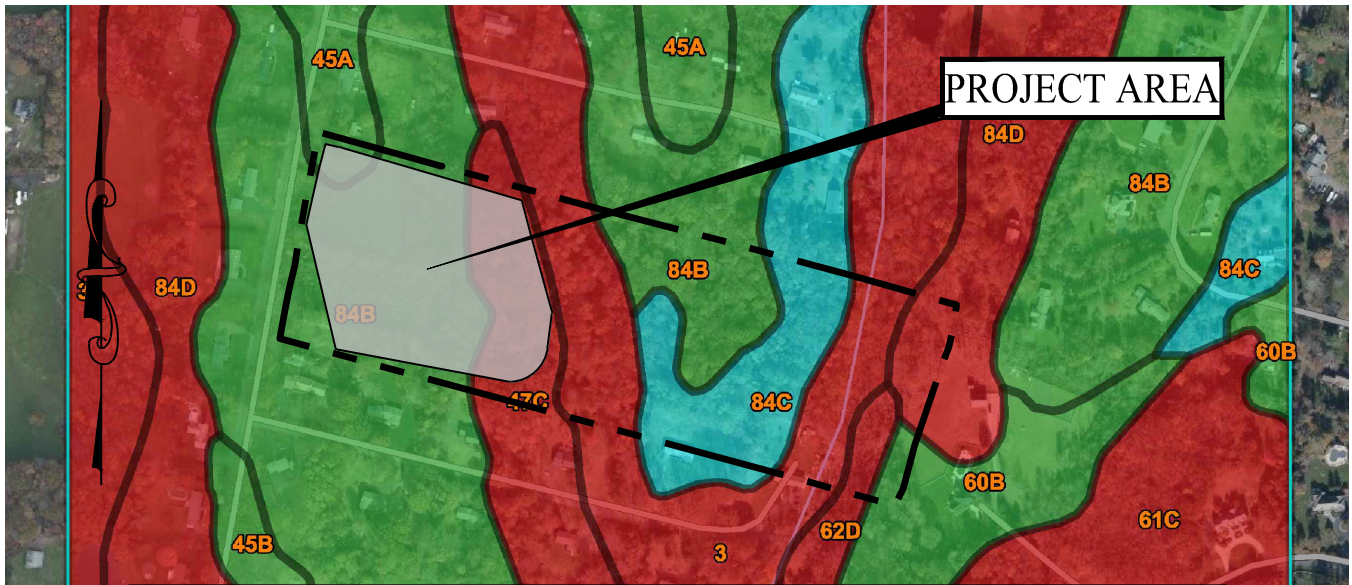
NOTE: BASE MAP INFORMATION TAKEN FROM CT DEEP BUREAU OF NATURAL RESOURCES WILDLIFE DIVISION, DATED: DECEMBER, 2022.



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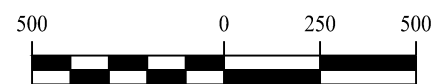
NATURAL DIVERSITY DATA  
BASE MAP  
428 BETHMOUR ROAD  
BETHANY, CONNECTICUT

Project #:	22113201
Plan Date:	
Scale:	1" = 2,000'
Figure:	7



Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
3	Ridgebury, Leicester, and Whitman soils, 0 to 8 percent slopes, extremely stony	Not prime farmland	24.2	18.7%
45A	Woodbridge fine sandy loam, 0 to 3 percent slopes	All areas are prime farmland	5.7	4.4%
45B	Woodbridge fine sandy loam, 3 to 8 percent slopes	All areas are prime farmland	1.7	1.3%
60B	Canton and Charlton fine sandy loams, 3 to 8 percent slopes	All areas are prime farmland	6.5	5.0%
61C	Canton and Charlton fine sandy loams, 8 to 15 percent slopes, very stony	Not prime farmland	9.4	7.3%
62D	Canton and Charlton fine sandy loams, 15 to 35 percent slopes, extremely stony	Not prime farmland	1.9	1.5%
84B	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes	All areas are prime farmland	44.6	34.5%
84C	Paxton and Montauk fine sandy loams, 8 to 15 percent slopes	Farmland of statewide importance	10.0	7.7%
84D	Paxton and Montauk fine sandy loams, 15 to 25 percent slopes	Not prime farmland	18.8	14.5%
86D	Paxton and Montauk fine sandy loams, 15 to 35 percent slopes, extremely stony	Not prime farmland	0.1	0.1%

NOTE: BASE MAP RESOURCES TAKEN FROM THE NATURAL RESOURCES CONSERVATION SERVICE, URL: <https://websoilsurvey.sc.egov.usda.gov>

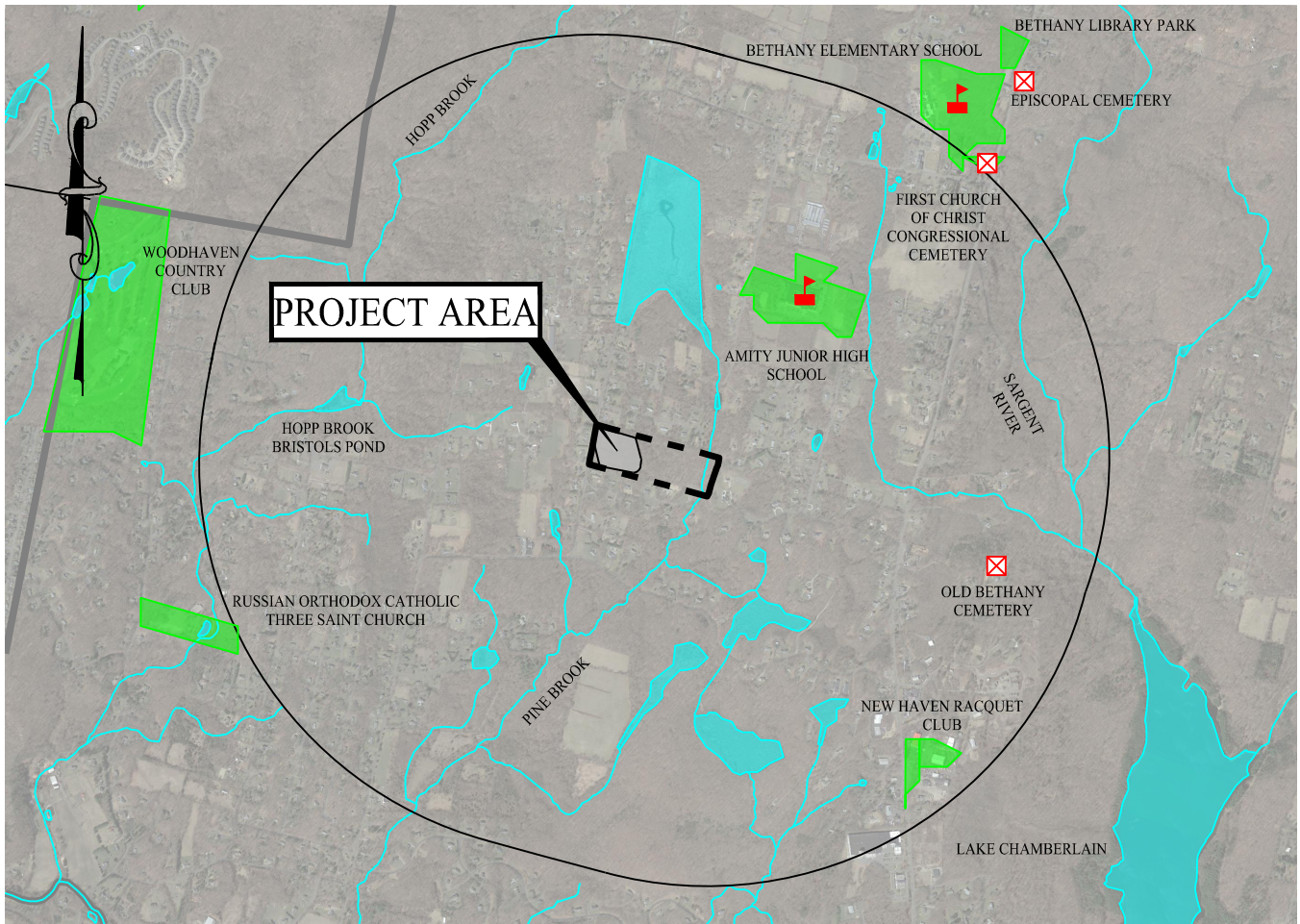


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**PRIME FARMLAND MAP**  
428 BETHMOUR ROAD  
BETHANY, CONNECTICUT

Project #: 22113201  
Plan Date:  
Scale: 1" = 500'  
Figure: 8

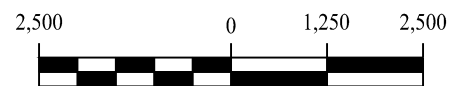




## LEGEND

	PROPERTY LINE		OPEN WATER (CT DEEP)
	1 MILE RADIUS		OPEN SPACE (CT ECO)
	TOWN BOUNDARY		SCHOOL
	NTL. SCENIC ROADWAY		CEMETERY
	STATE SCENIC ROADWAY		PARK
	HIKING TRAIL		
	WATERCOURSES (CT DEEP)		

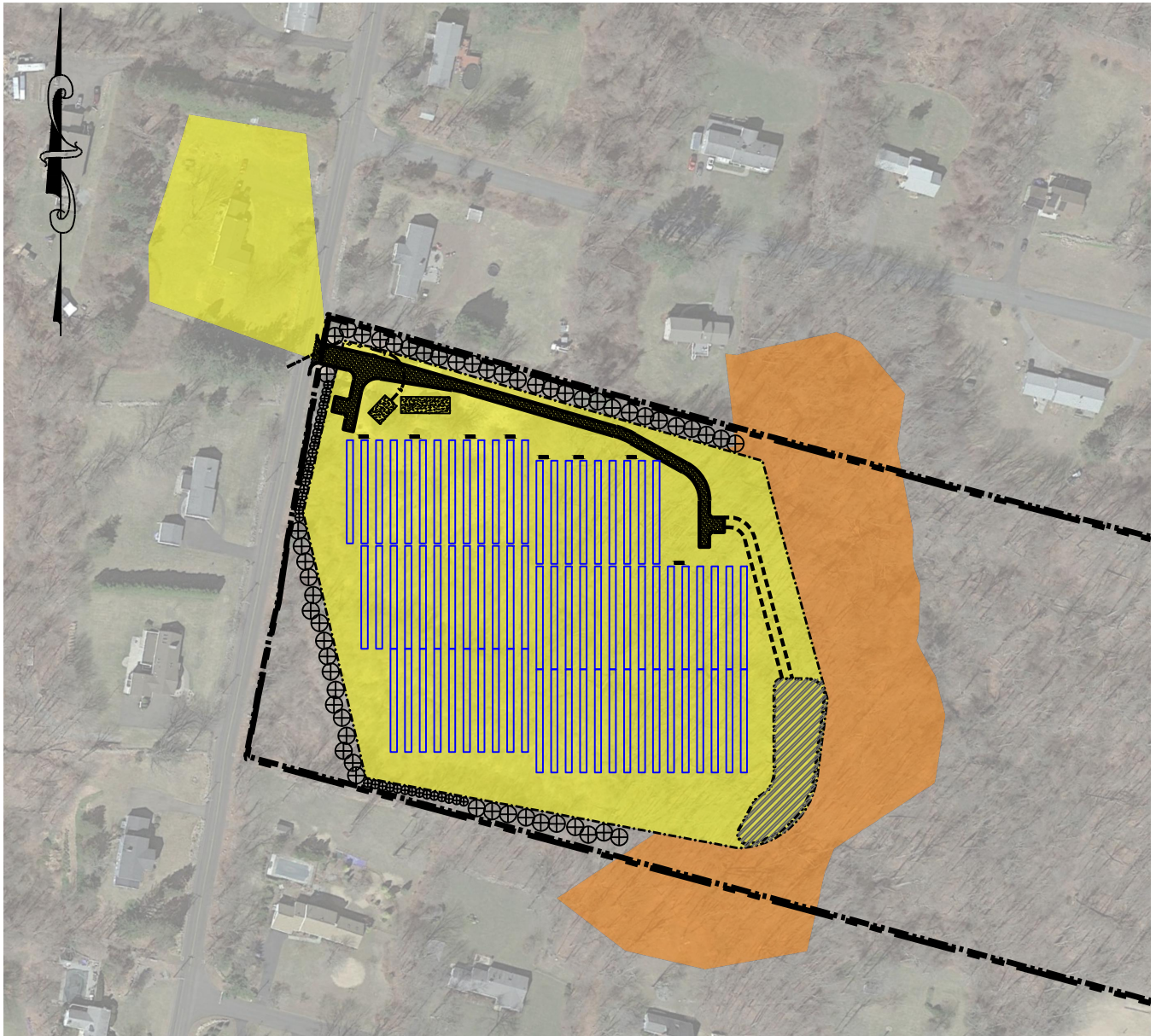
NOTE: BASE MAP RESOURCES TAKEN FROM CT ECO  
OPEN SPACE MAPPING AND CT DEEP HYDROGRAPHY



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**SCENIC & RECREATION MAP**  
428 BETHMOUR ROAD  
BETHANY, CONNECTICUT

Project #: 22113201  
Plan Date:  
Scale: 1" = 2,500'  
Figure: 9



## LEGEND

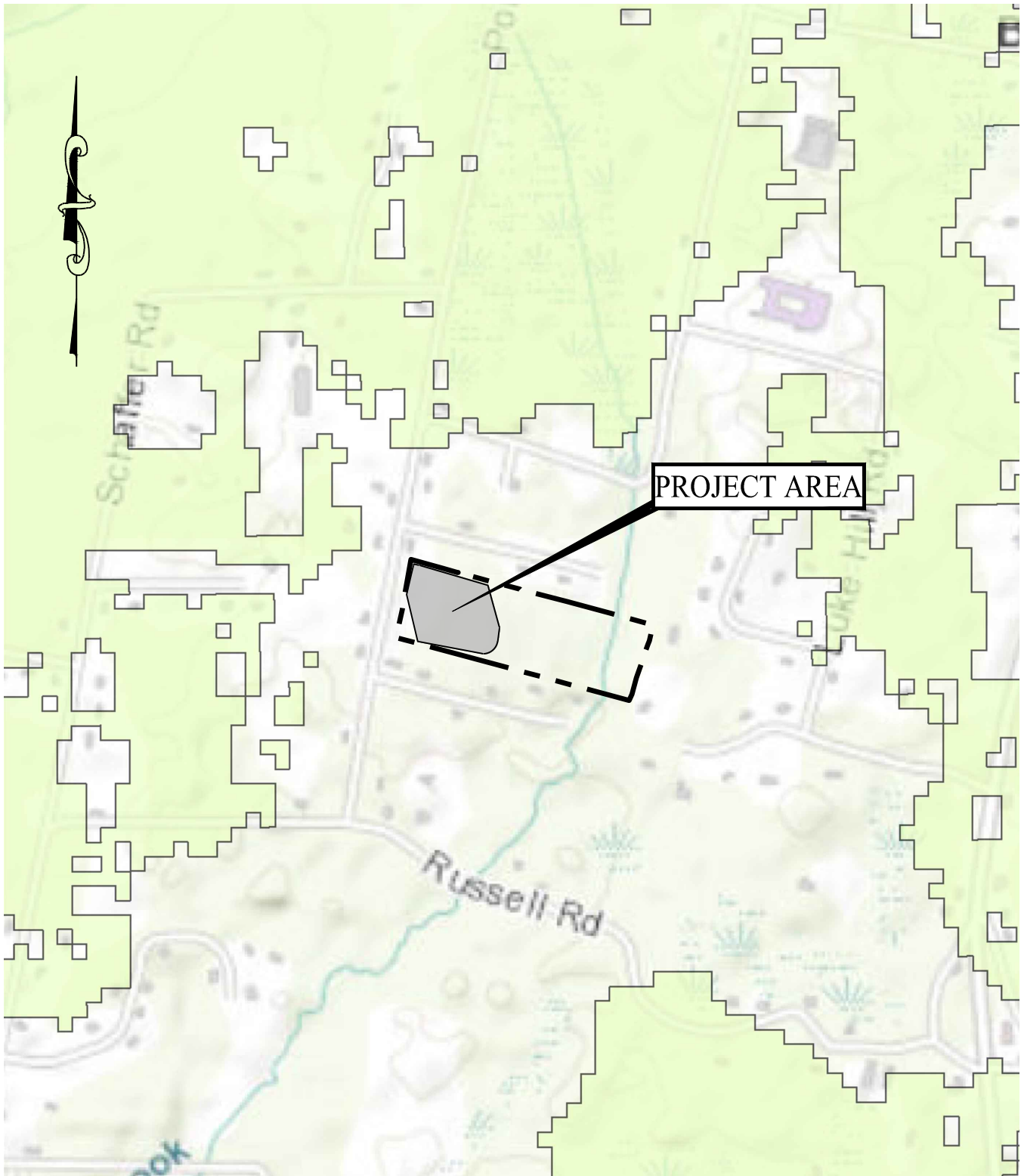
- PROPERTY LINE
- PREDICTED YEAR-ROUND VISIBILITY
- PREDICTED SEASONAL VISIBILITY



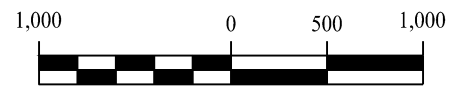
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PROPOSED CONDITIONS VIEWSHED MAP  
 428 BETHMOUR ROAD  
 BETHANY, CONNECTICUT

Project #:	22113201
Plan Date:	
Scale:	1" = 200'
Figure:	10



NOTE: BASE MAP RESOURCES TAKEN FROM ARCGIS  
FORESTLAND HABITAT IMPACT MAP



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**CORE FOREST MAP**  
428 BETHMOUR ROAD  
BETHANY, CONNECTICUT

Project #:	22113201
Plan Date:	
Scale:	1" = 1,000'
Figure:	11