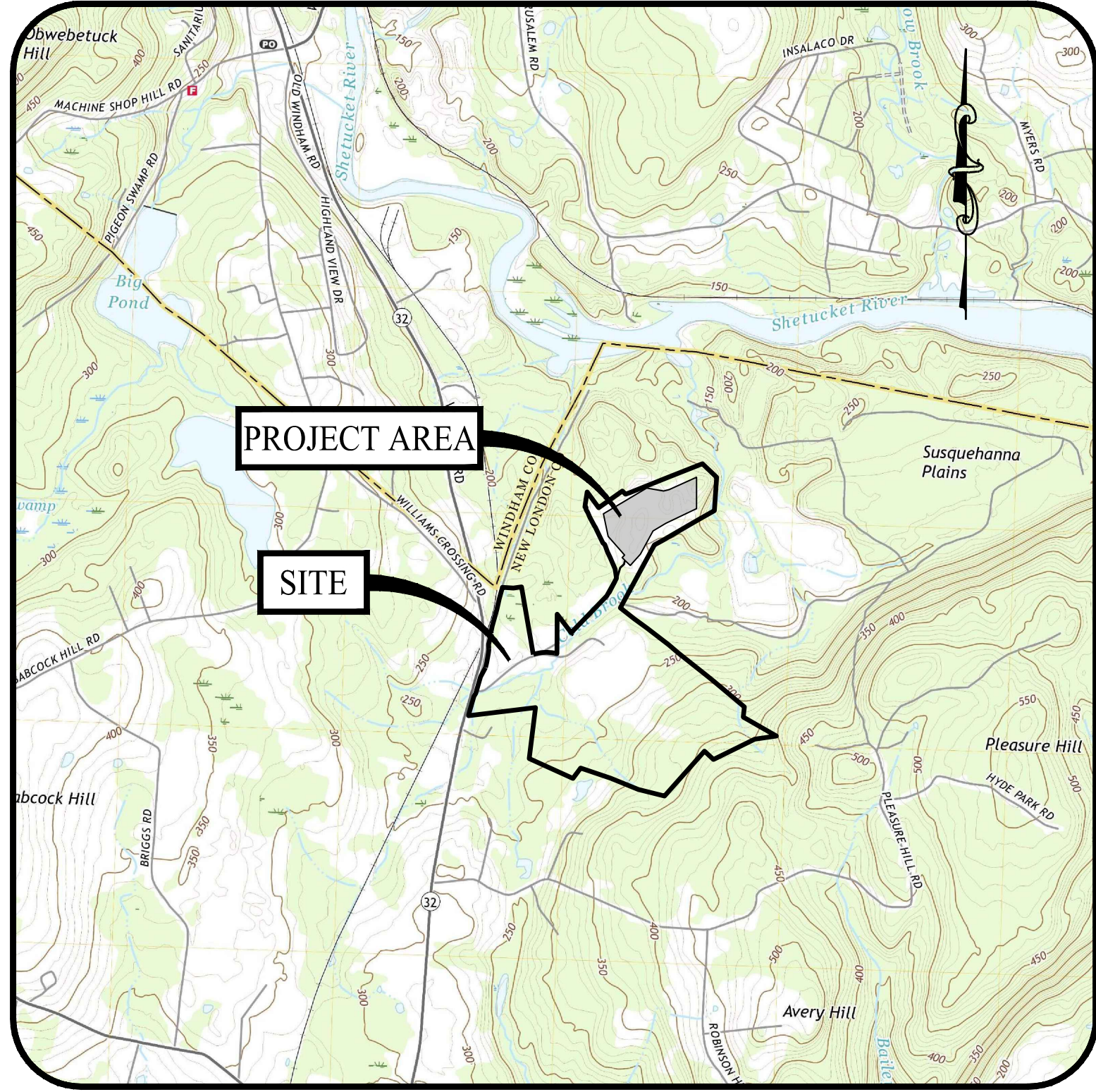


Appendix B – Project Plans

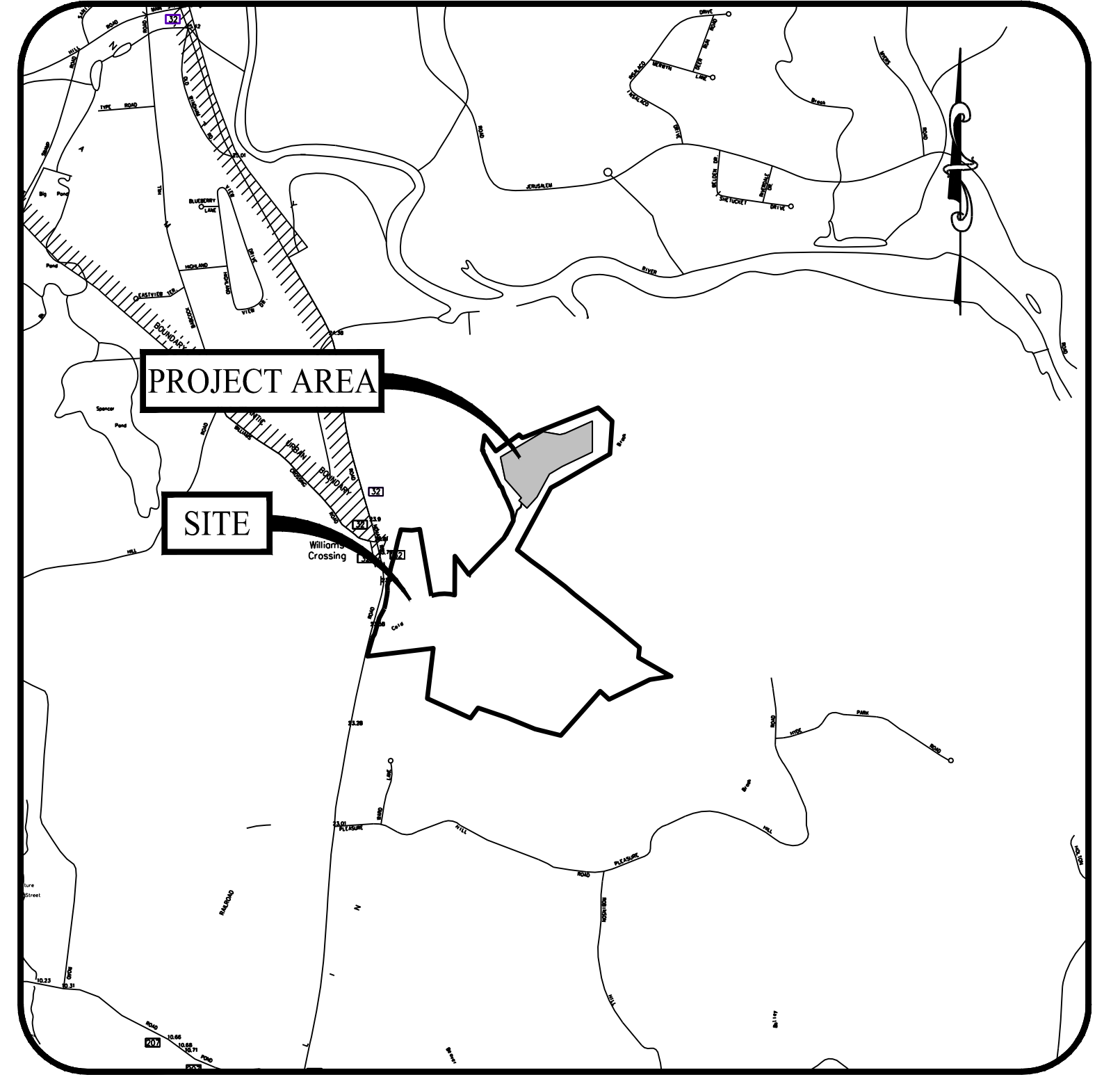


USGS MAP

SCALE: 1" = 2,000'

PROPOSED 4.975 MW SOLAR PHOTOVOLTAIC ARRAY

931 ROUTE 32
NORTH FRANKLIN, CONNECTICUT



LOCATION MAP

SCALE: 1" = 2,000'

PREPARED FOR:



124 LASALLE ROAD, 2ND FLOOR
WEST HARTFORD, CONNECTICUT

PREPARED BY:



MONROE, CT | WEST HARTFORD, CT | NORWOOD, MA

OWNER

K BEST USA TRADING INC.
99-05 59TH AVENUE APT 4C
CORONA, NEW YORK 11369

APPLICANT

VEROGY
124 LASALLE ROAD, 2ND FLOOR
WEST HARTFORD, CONNECTICUT 06107

PROPERTY INFORMATION

ADDRESS: 932 ROUTE 32, NORTH FRANKLIN, CONNECTICUT
PARCEL ID: 53-37
AREA: ±188.18 AC
BOOK/PAGE: 0095/0751

SOIL SCIENTIST

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

ENGINEER OF RECORD

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

ELECTRICAL ENGINEER

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

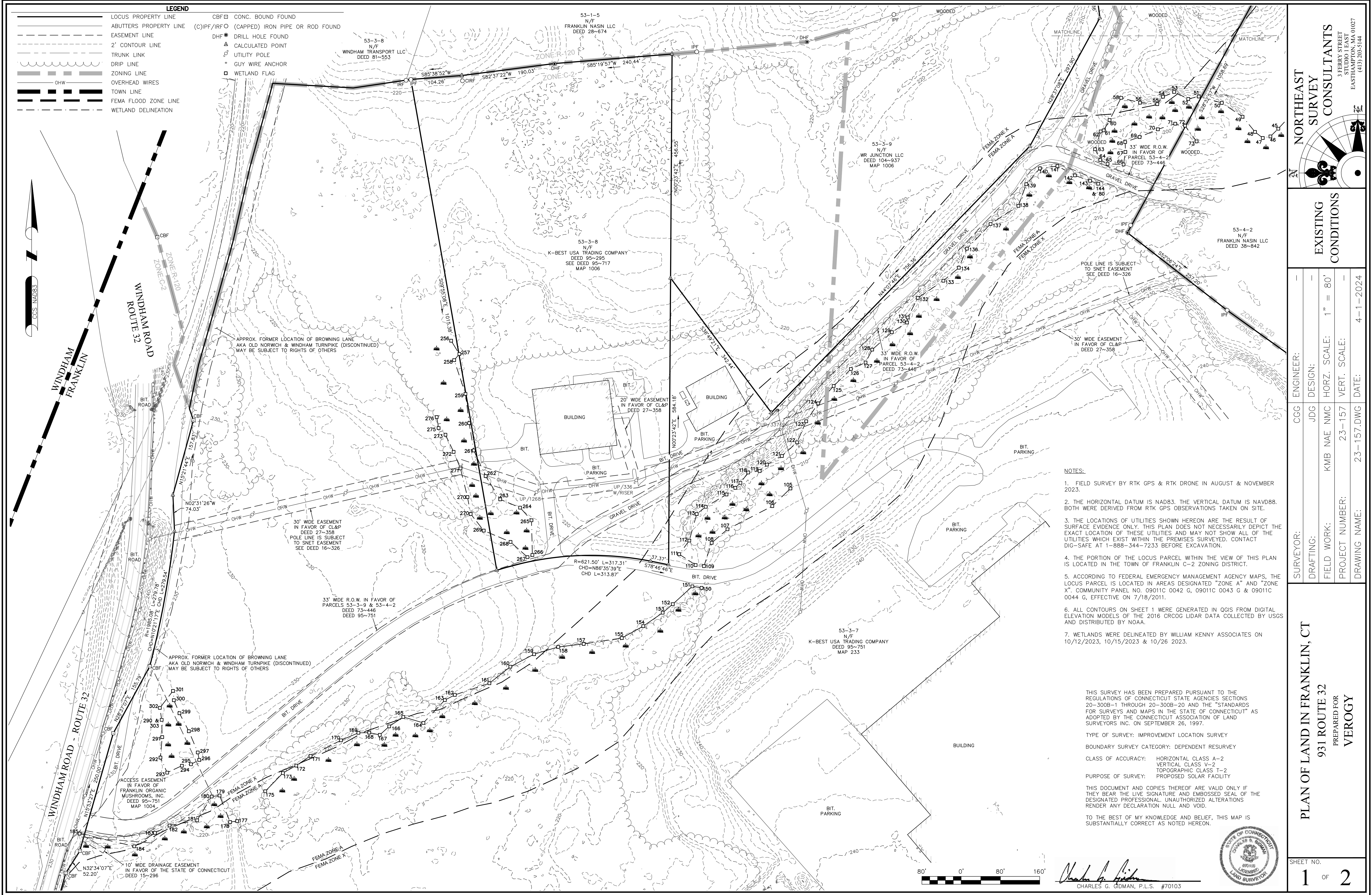
SURVEYOR OF RECORD

CHARLES G. GIDMAN, L.S. LICENSE NO. 70108
NORTHEAST SURVEY CONSULTANTS
3 FERRY STREET
EASTHAMPTON, MASSACHUSETTS 01027
(413) 203-5144

DRAWING LIST

SHEET #	SHEET NAME	PLAN DATE	LATEST REVISION
0.00	COVER SHEET	03/01/24	N/A
1 OF 2	EXISTING CONDITIONS	11/22/23	N/A
2 OF 2	EXISTING CONDITIONS	11/22/23	N/A
2.10	OVERALL SITE LAYOUT PLAN	03/01/24	N/A
2.11	SITE LAYOUT PLAN (SHEET 1 OF 4)	03/01/24	N/A
2.12	SITE LAYOUT PLAN (SHEET 2 OF 4)	03/01/24	N/A
2.13	SITE LAYOUT PLAN (SHEET 3 OF 4)	03/01/24	N/A
2.14	SITE LAYOUT PLAN (SHEET 4 OF 4)	03/01/24	N/A
2.20	GRADING AND DRAINAGE PLAN	03/01/24	N/A
2.21	GRADING AND DRAINAGE PLAN (1 OF 4)	03/01/24	N/A
2.22	GRADING AND DRAINAGE PLAN (2 OF 4)	03/01/24	N/A
2.23	GRADING AND DRAINAGE PLAN (3 OF 4)	03/01/24	N/A
2.24	GRADING AND DRAINAGE PLAN (4 OF 4)	03/01/24	N/A
2.31	SOIL EROSION AND SEDIMENT CONTROL PLAN - PHASE I	03/01/24	N/A
2.31.1	SOIL EROSION AND SEDIMENT CONTROL PLAN (1 OF 4)	03/01/24	N/A
2.31.2	SOIL EROSION AND SEDIMENT CONTROL PLAN (2 OF 4)	03/01/24	N/A
2.31.3	SOIL EROSION AND SEDIMENT CONTROL PLAN (3 OF 4)	03/01/24	N/A
2.31.4	SOIL EROSION AND SEDIMENT CONTROL PLAN (4 OF 4)	03/01/24	N/A
2.32	SOIL EROSION AND SEDIMENT CONTROL PLAN - PHASE II	03/01/24	N/A
2.32.1	SOIL EROSION AND SEDIMENT CONTROL PLAN (1 OF 4)	03/01/24	N/A
2.32.2	SOIL EROSION AND SEDIMENT CONTROL PLAN (2 OF 4)	03/01/24	N/A
2.32.3	SOIL EROSION AND SEDIMENT CONTROL PLAN (3 OF 4)	03/01/24	N/A
2.32.4	SOIL EROSION AND SEDIMENT CONTROL PLAN (4 OF 4)	03/01/24	N/A
2.41	SOIL EROSION AND SEDIMENT CONTROL DETAILS	03/01/24	N/A
3.01	CONSTRUCTION DETAILS	03/01/24	N/A

FOR PERMITTING PURPOSES ONLY. NOT FOR CONSTRUCTION.



LEGEND

LOCUS PROPERTY LINE	CBF	CONC. BOUND FOUND
ABUTTERS PROPERTY LINE	(C)IPF/IRFO	(CAPPED) IRON PIPE OR ROD FOUND
EASEMENT LINE	DHF	DRILL HOLE FOUND
2" CONTOUR LINE	Δ	CALCULATED POINT
TRUNK LINK	+	UTILITY POLE
DRIP LINE	+	GUY WIRE ANCHOR
ZONING LINE	□	WETLAND FLAG
OVERHEAD WIRES		
TOWN LINE		
FEMA FLOOD ZONE LINE		
WETLAND DELINEATION		

NORTHEAST SURVEY CONSULTANTS
3 FERRY STREET
STUDIO 1 EAST
EASTHAMPTON, MA 01027
(413) 203-5144

EXISTING CONDITIONS

SURVEYOR:	CGG	ENGINEER:	—
DRAFTING:	JDG	DESIGN:	—
FIELD WORK:	KMB NAE NMC	HORZ. SCALE:	1" = 80'
PROJECT NUMBER:	23-157	VERT. SCALE:	—
DRAWING NAME:	23-157.DWG	DATE:	4-1-2024

PLAN OF LAND IN FRANKLIN, CT
931 ROUTE 32
PREPARED FOR
VEROGY

SHEET NO.
1 OF **2**

NOTES:

1. FIELD SURVEY BY RTK GPS & RTK DRONE IN AUGUST & NOVEMBER 2023.
2. THE HORIZONTAL DATUM IS NAD83. THE VERTICAL DATUM IS NAVD88. BOTH WERE DERIVED FROM RTK GPS OBSERVATIONS TAKEN ON SITE.
3. THE LOCATIONS OF UTILITIES SHOWN HEREON ARE THE RESULT OF SURFACE EVIDENCE ONLY. THIS PLAN DOES NOT NECESSARILY DEPICT THE EXACT LOCATION OF THESE UTILITIES AND MAY NOT SHOW ALL OF THE UTILITIES WHICH EXIST WITHIN THE PREMISES SURVEYED. CONTACT DIG-SAFE AT 1-888-344-7233 BEFORE EXCAVATION.
4. THE PORTION OF THE LOCUS PARCEL WITHIN THE VIEW OF THIS PLAN IS LOCATED IN THE TOWN OF FRANKLIN C-2 ZONING DISTRICT.
5. ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY MAPS, THE LOCUS PARCEL IS LOCATED IN AREAS DESIGNATED "ZONE A" AND "ZONE X". COMMUNITY PANEL NO. 09011C 0042 G, 09011C 0043 G & 09011C 0044 G, EFFECTIVE ON 7/18/2011.
6. ALL CONTOURS ON SHEET 1 WERE GENERATED IN QGIS FROM DIGITAL ELEVATION MODELS OF THE 2016 CROCG LIDAR DATA COLLECTED BY USGS AND DISTRIBUTED BY NOAA.
7. WETLANDS WERE DELINEATED BY WILLIAM KENNY ASSOCIATES ON 10/12/2023, 10/15/2023 & 10/26 2023.

THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300B-1 THROUGH 20-300B-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS INC. ON SEPTEMBER 26, 1997.

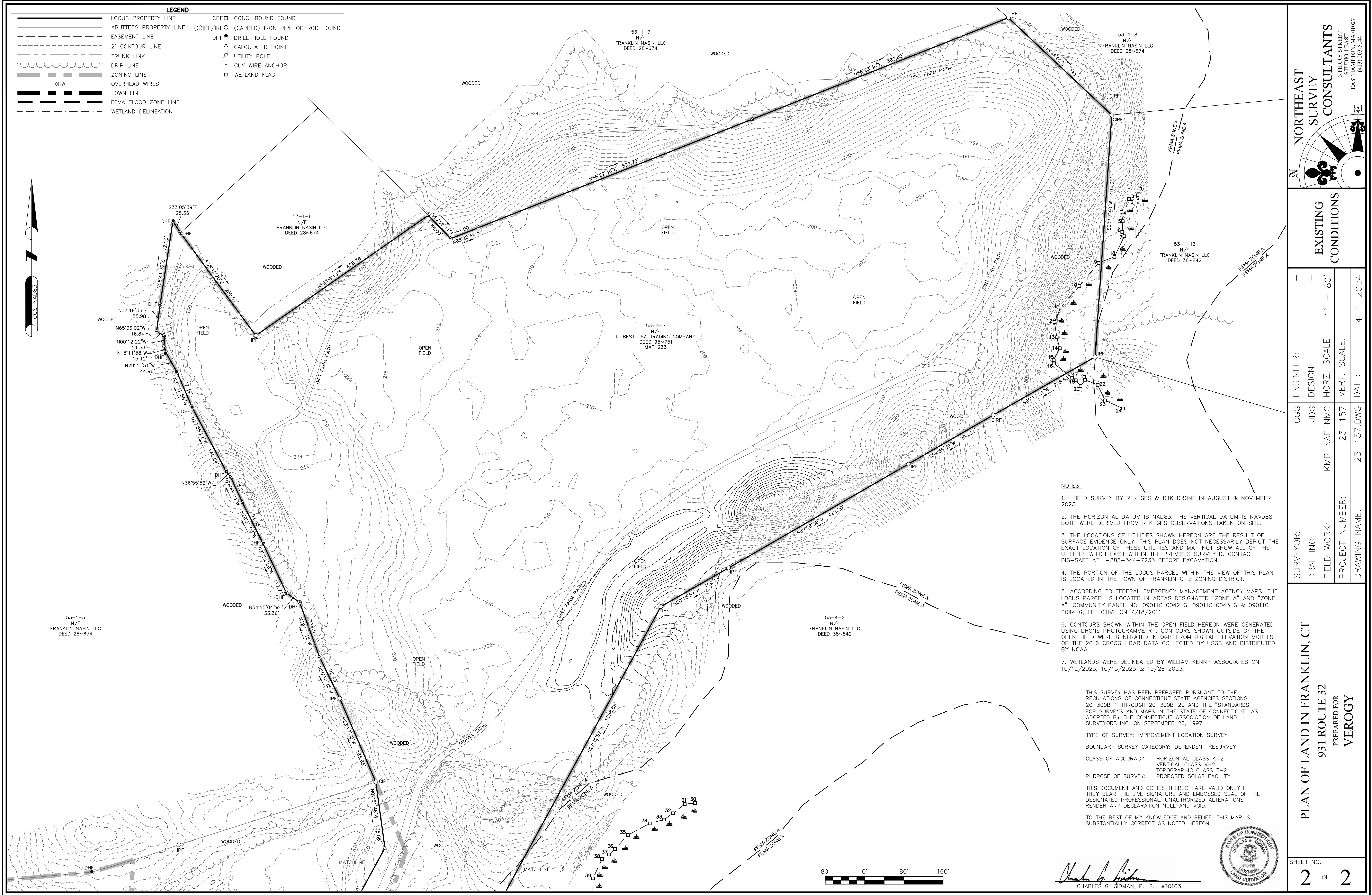
TYPE OF SURVEY: IMPROVEMENT LOCATION SURVEY
BOUNDARY SURVEY CATEGORY: DEPENDENT RESURVEY
CLASS OF ACCURACY: HORIZONTAL CLASS A-2
VERTICAL CLASS V-2
TOPOGRAPHIC CLASS T-2
PURPOSE OF SURVEY: PROPOSED SOLAR FACILITY

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. Gidman
CHARLES G. GIDMAN, P.L.S. #70103

STATE OF CONNECTICUT
DEPARTMENT OF CONSERVATION & LAND MANAGEMENT
LAND SURVEYOR



LEGEND	
LOCUS PROPERTY LINE	CBF CONC. BOUND FOUND
ABUTTERS PROPERTY LINE	(C)IPF/IRFO (CAPPED) IRON PIPE OR ROD FOUND
EASEMENT LINE	DHF DRILL HOLE FOUND
2' CONTOUR LINE	Δ CALCULATED POINT
TRUNK LINK	⊗ UTILITY POLE
DRIP LINE	+ GUY WIRE ANCHOR
ZONING LINE	□ WETLAND FLAG
OHW	
OVERHEAD WIRES	
TOWN LINE	
FEMA FLOOD ZONE LINE	
WETLAND DELINEATION	

- NOTES:
1. FIELD SURVEY BY RTK GPS & RTK DRONE IN AUGUST & NOVEMBER 2023.
 2. THE HORIZONTAL DATUM IS NAD83. THE VERTICAL DATUM IS NAVD88. BOTH WERE DERIVED FROM RTK GPS OBSERVATIONS TAKEN ON SITE.
 3. THE LOCATIONS OF UTILITIES SHOWN HEREON ARE THE RESULT OF SURFACE EVIDENCE ONLY. THIS PLAN DOES NOT NECESSARILY DEPICT THE EXACT LOCATION OF THESE UTILITIES AND MAY NOT SHOW ALL OF THE UTILITIES WHICH EXIST WITHIN THE PREMISES SURVEYED. CONTACT DIG-SAFE AT 1-888-344-7233 BEFORE EXCAVATION.
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 5. ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY MAPS, THE LOCUS PARCEL IS LOCATED IN AREAS DESIGNATED "ZONE A" AND "ZONE X". COMMUNITY PANEL NO. 09011C 0042 G, 09011C 0043 G & 09011C 0044 G, EFFECTIVE ON 7/18/2011.
 6. CONTOURS SHOWN WITHIN THE OPEN FIELD HEREON WERE GENERATED USING DRONE PHOTOGRAMMETRY. CONTOURS SHOWN OUTSIDE OF THE OPEN FIELD WERE GENERATED IN QGIS FROM DIGITAL ELEVATION MODELS OF THE 2016 CRCOG LIDAR DATA COLLECTED BY USGS AND DISTRIBUTED BY NOAA.
 7. WETLANDS WERE DELINEATED BY WILLIAM KENNY ASSOCIATES ON 10/12/2023, 10/15/2023 & 10/26 2023.

THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300B-1 THROUGH 20-300B-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS INC. ON SEPTEMBER 26, 1997.

TYPE OF SURVEY: IMPROVEMENT LOCATION SURVEY

BOUNDARY SURVEY CATEGORY: DEPENDENT RESURVEY

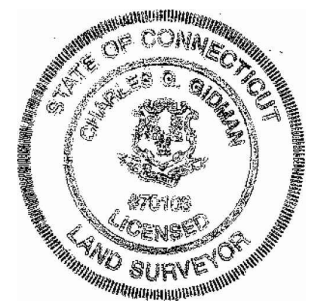
CLASS OF ACCURACY: HORIZONTAL CLASS A-2
VERTICAL CLASS V-2
TOPOGRAPHIC CLASS T-2
PROPOSED SOLAR FACILITY

PURPOSE OF SURVEY:

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. Gidman
CHARLES G. GIDMAN, P.L.S. #70103



NORTHEAST
SURVEY
CONSULTANTS

3 FERRY STREET
STUDIO 1 EAST
EASTHAMPTON, MA 01027
(413) 203-5144

EXISTING
CONDITIONS

SURVEYOR: CCG

DRAFTING: JDG

FIELD WORK: KMB NAE NMC

PROJECT NUMBER: 23-157

DRAWING NAME: 23-157.DWG

ENGINEER: CCG

DESIGN: JDG

HORZ. SCALE: 1" = 80'

VERT. SCALE: 23-157

DATE: 4-1-2024

PLAN OF LAND IN FRANKLIN, CT

931 ROUTE 32

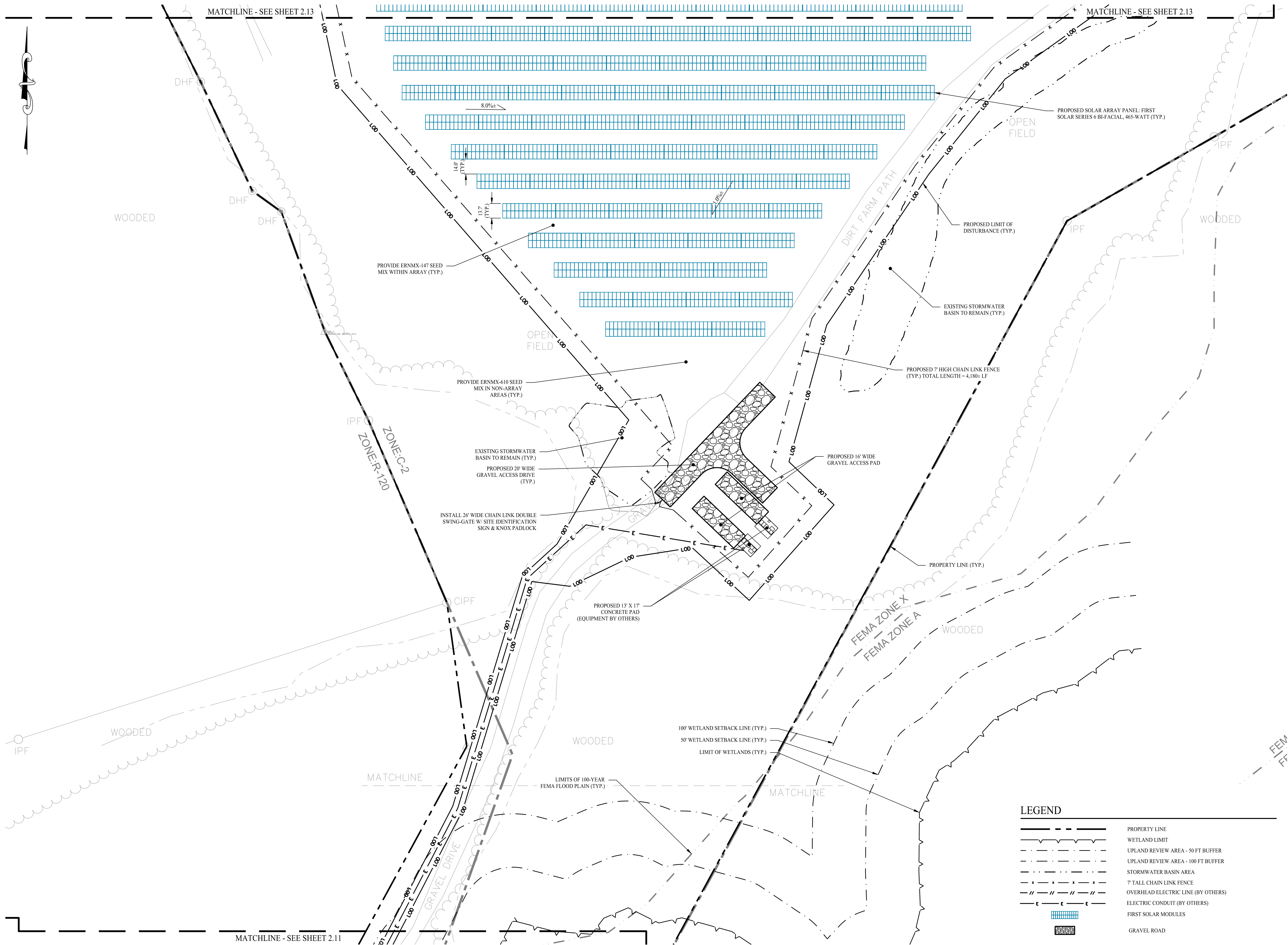
PREPARED FOR
VEROGY

SHEET NO.

2 OF 2



Apr 02, 2024 - 10:30am Anthony
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LEGEND

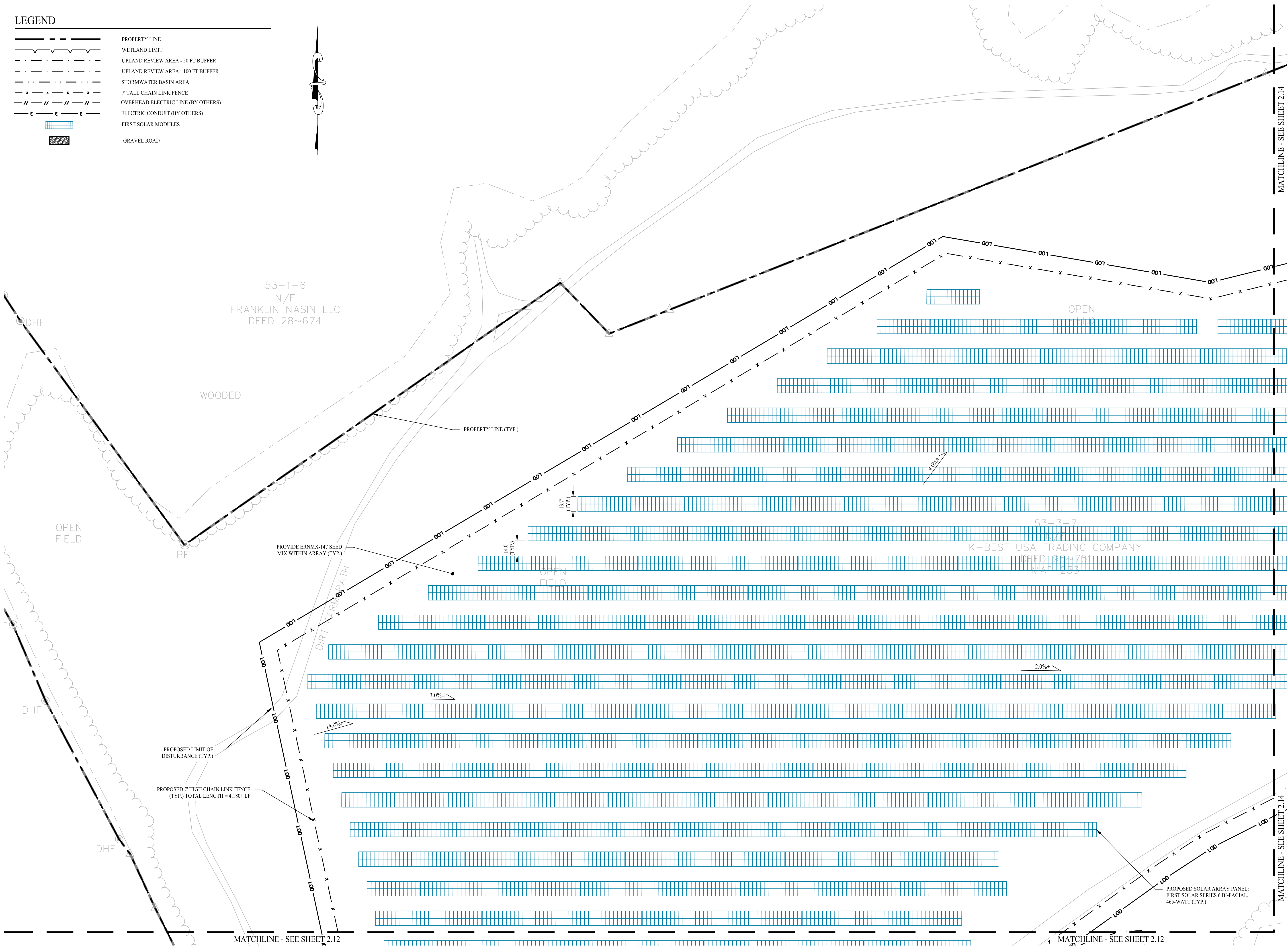
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	WETLAND LIMIT
	UPLAND REVIEW AREA - 50 FT BUFFER
	UPLAND REVIEW AREA - 100 FT BUFFER
	STORMWATER BASIN AREA
	7' TALL CHAIN LINK FENCE
	OVERHEAD ELECTRIC LINE (BY OTHERS)
	ELECTRIC CONDUIT (BY OTHERS)
	FIRST SOLAR MODULES
	GRAVEL ROAD

Rev. #:		Date		Description	
MONROE, CT W. HARTFORD, CT NORWOOD, MA SOLLIENGINEERING.COM T: (203) 880-5455 F: (203) 880-9695					
Drawn By:		AWC			
Checked By:		EEL			
Approved By:		KMS			
Project #:		23112101			
Plan Date:		03/01/24			
Scale:		1" = 40'			
Project:					
PROPOSED SOLAR PHOTOVOLTAIC ARRAY					
931 ROUTE 32					
NORTH FRANKLIN, CONNECTICUT					
Sheet Title:		SHEET 2 OF 4		2.12	

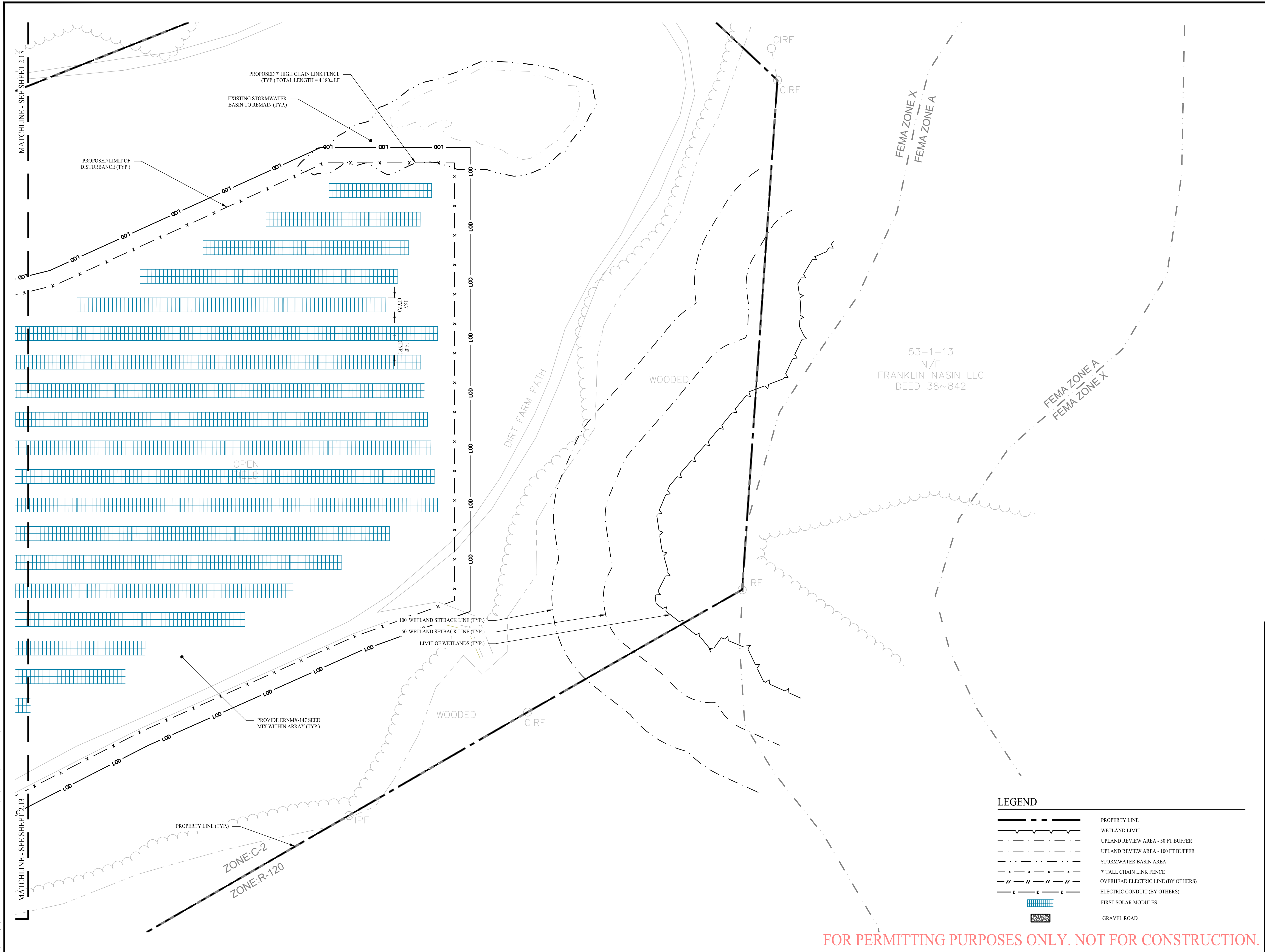
FOR PERMITTING PURPOSES ONLY. NOT FOR CONSTRUCTION.

LEGEND

- PROPERTY LINE
- WETLAND LIMIT
- UPLAND REVIEW AREA - 50 FT BUFFER
- UPLAND REVIEW AREA - 100 FT BUFFER
- STORMWATER BASIN AREA
- 7 TALL CHAIN LINK FENCE
- OVERHEAD ELECTRIC LINE (BY OTHERS)
- ELECTRIC CONDUIT (BY OTHERS)
- FIRST SOLAR MODULES
- GRAVEL ROAD

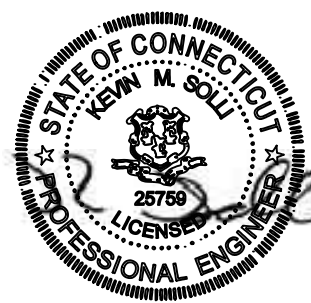


Rev. #:		Date		Description	
Graphic Scale:					
MONROE, CT W. HARTFORD, CT NORWOOD, MA SOLLIENGINEERING.COM T: (203) 880-5455 F: (203) 880-9095					
Drawn By:		AWC			
Checked By:		EEL			
Approved By:		KMS			
Project #:		23112101			
Plan Date:		03/01/24			
Scale:		1" = 40'			
Project:		PROPOSED SOLAR PHOTOVOLTAIC ARRAY 931 ROUTE 32 NORTH FRANKLIN, CONNECTICUT			
Sheet Title:		SITE LAYOUT PLAN (SHEET 3 OF 4)		Sheet #:	
				2.13	



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<div style="display: flex; justify-content: space-between;"><div>Rev. #:</div><div>Date</div><div>Description</div></div>	
<p>Graphic Scale:</p> <div style="display: flex; align-items: center;"><div style="width: 100px; height: 20px; background: linear-gradient(to right, black 25%, white 25% 50%, black 50% 75%, white 75% 100%); border: 1px solid black; margin-right: 10px;"></div><div style="display: flex; justify-content: space-between; width: 100%;">4004080</div></div>	
<div style="display: flex; align-items: center; justify-content: center;"><div style="font-size: 4em; margin-right: 10px;">S</div><div><h1 style="margin: 0;">SOLLI</h1><h2 style="margin: 0;">ENGINEERING</h2></div></div> <p style="margin: 10px 0;">MONROE, CT W. HARTFORD, CT NORWOOD, MA</p> <p style="margin: 0 0 0 100px;">SOLLIEENGINEERING.COM</p> <p style="margin: 0 0 0 100px;">T: (203) 880-5455 F: (203) 880-9695</p>	
<div style="display: flex; justify-content: space-between;"><div>Drawn By:</div><div>AWC</div></div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"><div>Checked By:</div><div>EEL</div></div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"><div>Approved By:</div><div>KMS</div></div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"><div>Project #:</div><div>23112101</div></div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"><div>Plan Date:</div><div>03/01/24</div></div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"><div>Scale:</div><div>1" = 40'</div></div>	<div style="text-align: center;"><p>Kevin Solli, P.E. CT 25759</p></div>
<h1 style="margin: 0;">PROPOSED SOLAR PHOTOVOLTAIC ARRAY</h1> <p style="margin: 10px 0;">931 ROUTE 32</p> <p style="margin: 0 0 0 100px;">NORTH FRANKLIN, CONNECTICUT</p>	
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Sheet Title:</div> <div style="text-align: center; padding: 20px;"><h2 style="margin: 0;">SITE LAYOUT PLAN</h2><p style="margin: 0;">(SHEET 4 OF 4)</p></div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Sheet #:</div> <div style="text-align: center; padding: 20px;"><h1 style="margin: 0;">2.14</h1></div>



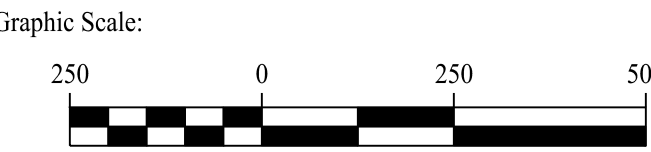
GENERAL NOTES

1. THIS DRAWING IS INTENDED TO DESCRIBE GRADING AND DRAINAGE ONLY. REFER TO SITE PLAN FOR GENERAL INFORMATION, AND DETAIL SHEETS FOR CONSTRUCTION DETAILS.
2. 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.
3. TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON SITE FOR USE IN FINAL LANDSCAPING.
4. THE OWNER 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 FRANKLIN REQUIRED TO PERFORM ALL WORK. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
5. THE CONTRACTOR SHALL COMPACT FILL IN 12" MAXIMUM LIFTS UNDER ALL PARKING, BUILDING, AND DRIVE AREAS TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557 (MODIFIED PROCTOR TEST).
6. UNDERDRAINS SHALL BE ADDED, IF DETERMINED NECESSARY IN THE FIELD BY THE ENGINEER OF RECORD, AFTER SUBGRADE IS ROUGH GRADED.
7. 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 FRANKLIN AUTHORITY.
8. 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.
9. ALL DISTURBED AREAS TO BE RESEED WITH ERNMX-147 WITHIN THE ARRAY AREA. ERNMX-610 WILL BE USED OUTSIDE FENCELINE AND IN NON-ARRAY AREAS.
10. CONTRACTOR TO MAINTAIN EXISTING GRADES ALONG THE UNDERGROUND ELECTRICAL CONDUIT RUN.

LEGEND

	PROPERTY LINE
	MAJOR CONTOURS
	MINOR CONTOURS
	EXISTING MAJOR CONTOURS
	EXISTING MINOR CONTOURS
	PROPOSED SPOT ELEVATION
	EXISTING SPOT ELEVATION

Rev. #:	Date	Description
---------	------	-------------



SOLLI
ENGINEERING
MONROE, CT | W. HARTFORD, CT | NORWOOD, MA
SOLLIENGINEERING.COM
T: (203) 880-5455 | F: (203) 880-9695

Drawn By:	AWC
Checked By:	EEL
Approved By:	KMS
Project #:	23112101
Plan Date:	03/01/24
Scale:	1" = 250'

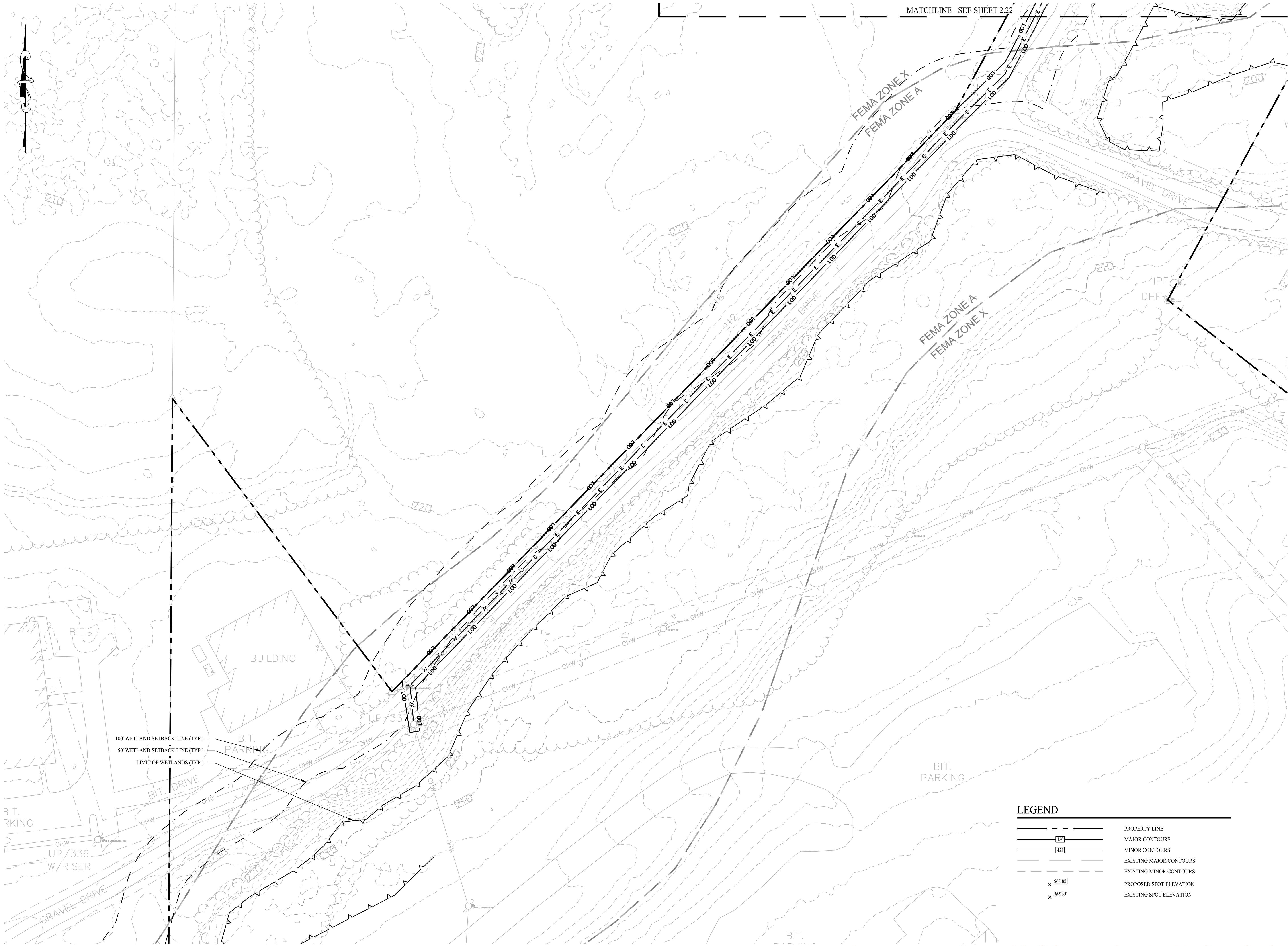


Project:
**PROPOSED SOLAR
PHOTOVOLTAIC ARRAY**
931 ROUTE 32
NORTH FRANKLIN, CONNECTICUT

Sheet Title:
**OVERALL
GRADING &
DRAINAGE PLAN**

Sheet #:
2.20

FOR PERMITTING PURPOSES ONLY. NOT FOR CONSTRUCTION.



*THERE IS NO
GRADING OR
DRAINAGE PROPOSED
ON THIS SHEET.

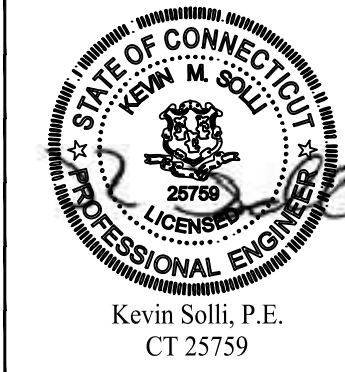
Rev. #:	Date	Description



SOLLI
ENGINEERING

MONROE, CT | W. HARTFORD, CT | NORWOOD, MA
SOLLIENGINEERING.COM
T: (203) 880-5455 | F: (203) 880-9695

Drawn By:	AWC
Checked By:	EEL
Approved By:	KMS
Project #:	23112101
Plan Date:	03/01/24
Scale:	1" = 40'



Project:

**PROPOSED SOLAR
PHOTOVOLTAIC ARRAY**

931 ROUTE 32
NORTH FRANKLIN, CONNECTICUT

Sheet Title:

**GRADING &
DRAINAGE
PLAN**

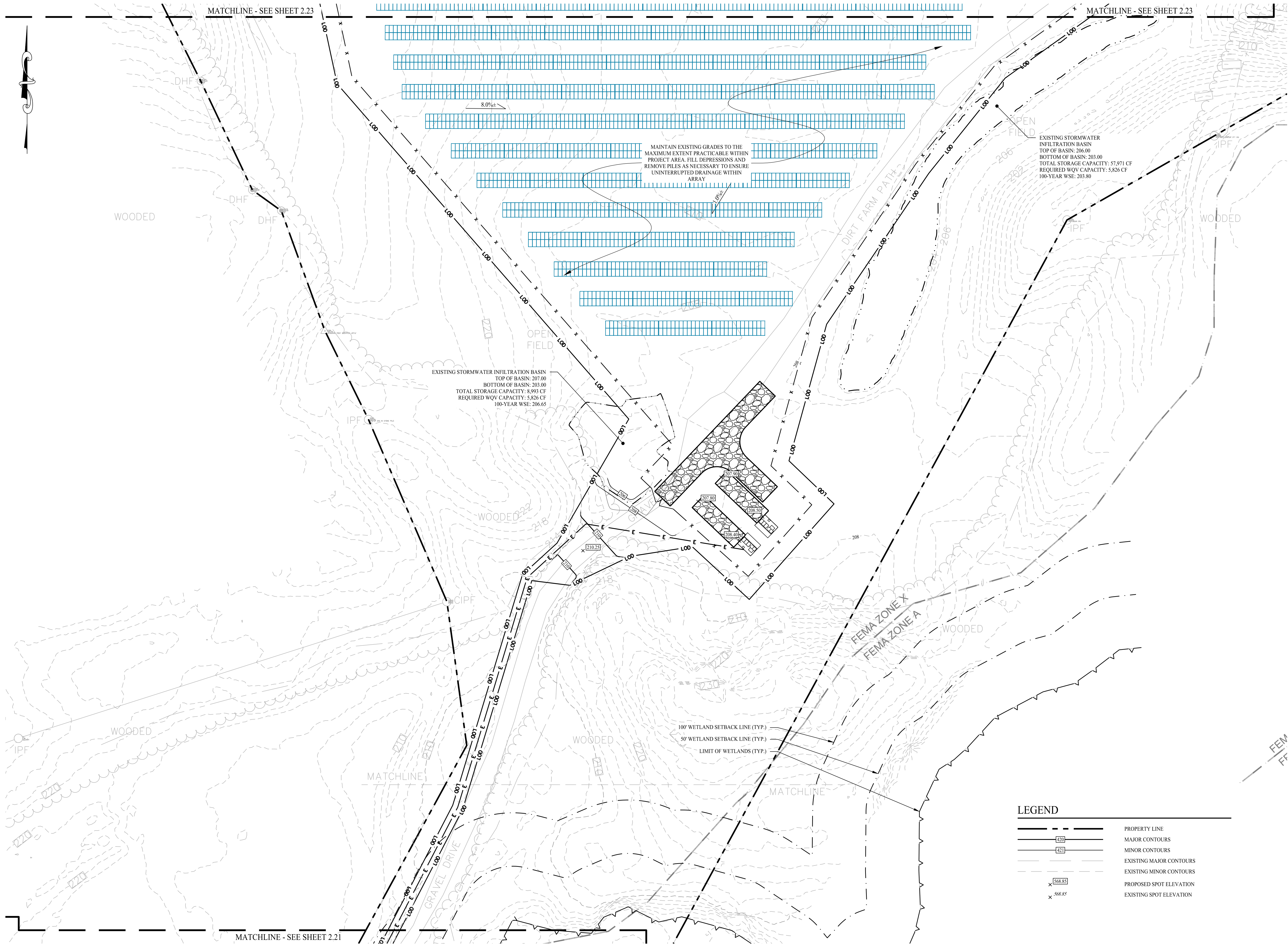
(SHEET 1 OF 4)

Sheet #:

2.21

FOR PERMITTING PURPOSES ONLY. NOT FOR CONSTRUCTION.

Apr 02, 2024 - 10:31am Anthony
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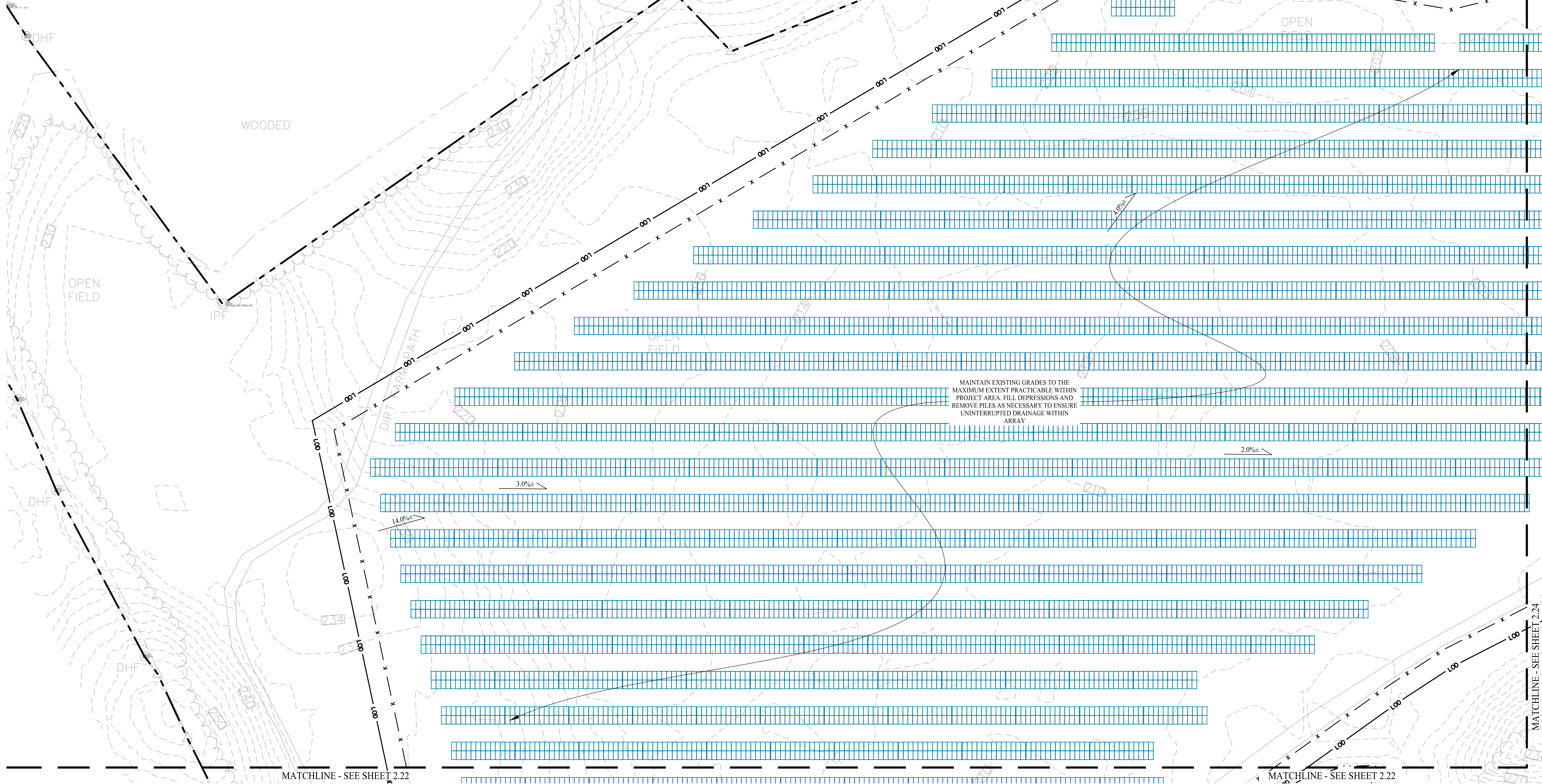


FOR PERMITTING PURPOSES ONLY. NOT FOR CONSTRUCTION.

Rev. #:		Date	Description
Graphic Scale: 40 0 40 80			
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Drawn By:	AWC		
Checked By:	EEL		
Approved By:	KMS		
Project #:	23112101		
Plan Date:	03/01/24		
Scale:	1" = 40'		
Project:			
PROPOSED SOLAR PHOTOVOLTAIC ARRAY 931 ROUTE 32 NORTH FRANKLIN, CONNECTICUT			
Sheet Title: GRADING & DRAINAGE PLAN (SHEET 2 OF 4)		Sheet #: 2.22	

LEGEND

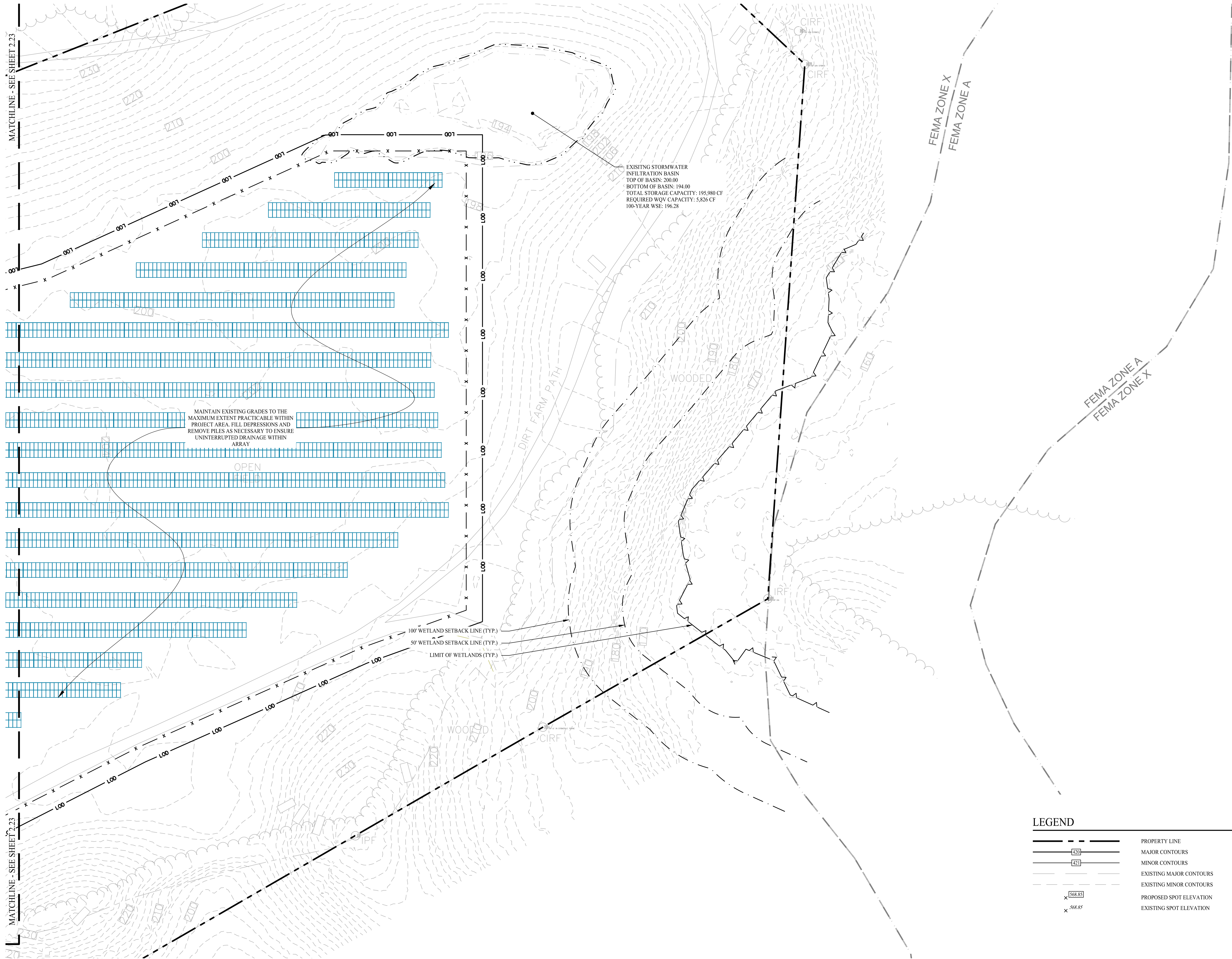
-
- PROPERTY LINE
MAJOR CONTOURS
MINOR CONTOURS
EXISTING MAJOR CONTOURS
EXISTING MINOR CONTOURS
PROPOSED SPOT ELEVATION
EXISTING SPOT ELEVATION



FOR PERMITTING PURPOSES ONLY. NOT FOR CONSTRUCTION.

Rev. #: Date Description		
Graphic Scale: 40 0 40 80		
 SOLLI ENGINEERING MONROE, CT W. HARTFORD, CT NORWOOD, MA SOLLIENGINEERING.COM T: (203) 880-5455 F: (203) 880-9095		
Drawn By: AWC		
Checked By: EEL		
Approved By: KMS		
Project #: 23112101		
Plan Date: 03/01/24		
Scale: 1" = 40'		
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PROPOSED SOLAR PHOTOVOLTAIC ARRAY 931 ROUTE 32 NORTH FRANKLIN, CONNECTICUT		
Sheet Title: GRADING & DRAINAGE PLAN (SHEET 3 OF 4)	Sheet #: 2.23	

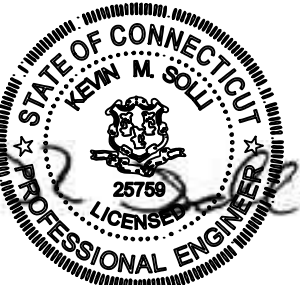
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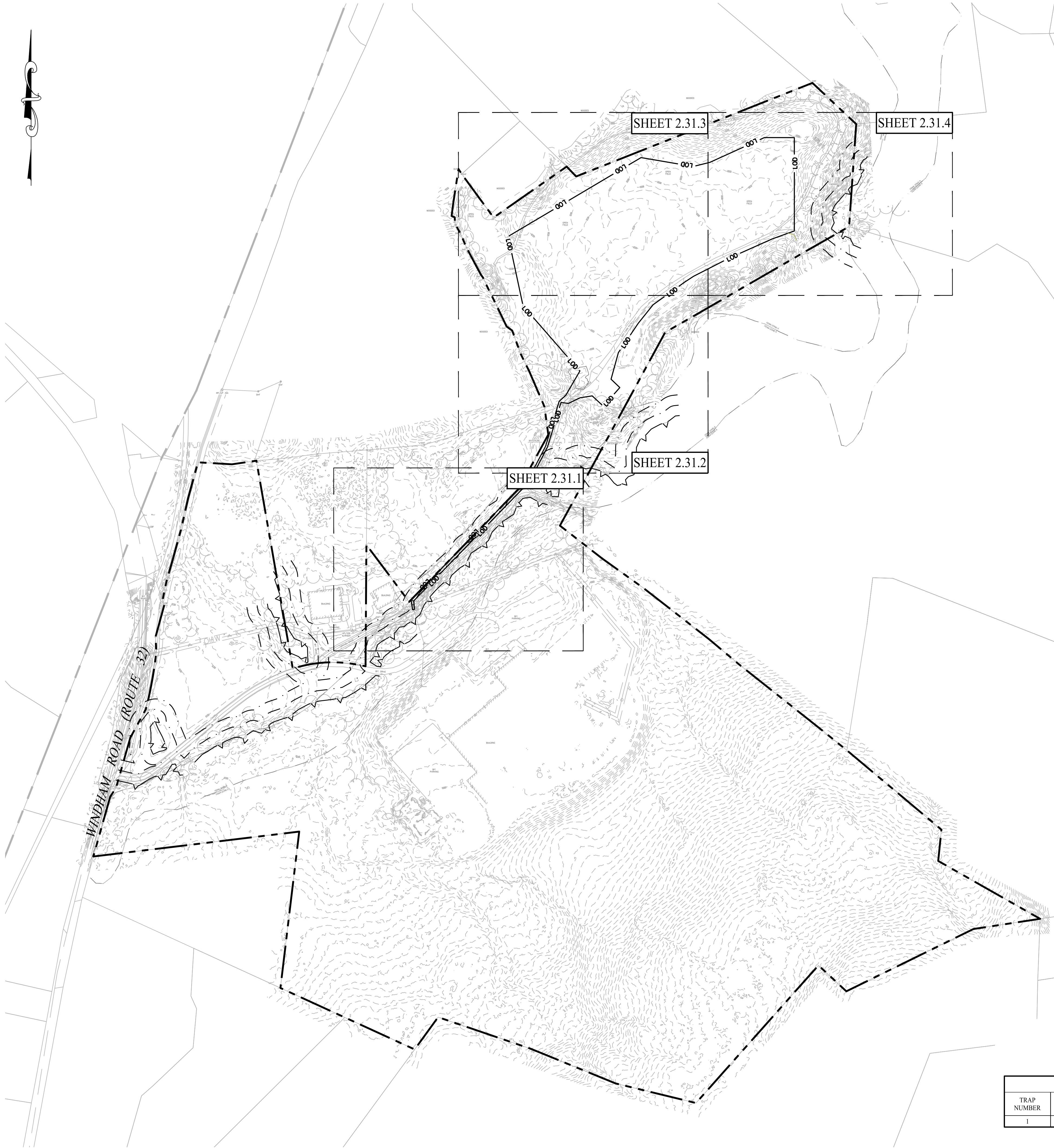


LEGEND

---	PROPERTY LINE
---	MAJOR CONTOURS
---	MINOR CONTOURS
---	EXISTING MAJOR CONTOURS
---	EXISTING MINOR CONTOURS
---	PROPOSED SPOT ELEVATION
---	EXISTING SPOT ELEVATION

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Drawn By: AWC	 Kevin Solli, P.E. CT 25759
Checked By: EEL	
Approved By: KMS	
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PROPOSED SOLAR PHOTOVOLTAIC ARRAY 931 ROUTE 32 NORTH FRANKLIN, CONNECTICUT	
Sheet Title: GRADING & DRAINAGE PLAN (SHEET 4 OF 4)	Sheet #: 2.24



SEDIMENT & EROSION CONTROL NOTES

- THE CONTRACTOR SHALL CONSTRUCT ALL SEDIMENT AND EROSION CONTROLS IN ACCORDANCE WITH THE 2024 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, LATEST EDITION, IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, AND AS DIRECTED BY THE TOWN OF FRANKLIN, PERMITTEE, AND/OR SWPCP MONITOR. ALL PERIMETER SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CLEARING AND GRUBBING AND DEMOLITION OPERATIONS.
- THESE DRAWINGS ARE ONLY INTENDED TO DESCRIBE THE SEDIMENT AND EROSION CONTROL MEASURES FOR THIS SITE. SEE CONSTRUCTION SEQUENCE FOR ADDITIONAL INFORMATION. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE EROSION & SEDIMENT CONTROL PLAN ARE SHOWN AS REQUIRED BY THE ENGINEER OF RECORD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL EROSION CONTROL MEASURES ARE CONFIGURED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION OF SOILS AND PREVENT THE TRANSPORT OF SEDIMENTS AND OTHER POLLUTANTS TO STORM DRAINAGE SYSTEMS AND/OR WATERCOURSES. ACTUAL SITE CONDITIONS OR SEASONAL AND CLIMATIC CONDITIONS MAY WARRANT ADDITIONAL CONTROLS OR CONFIGURATIONS, AS REQUIRED, AND AS DIRECTED BY THE PERMITTEE AND/OR SWPCP MONITOR. REFER TO SITE PLAN FOR GENERAL INFORMATION AND OTHER CONTRACT PLANS FOR APPROPRIATE INFORMATION.
- A BOND OR LETTER OF CREDIT MAY BE REQUIRED TO BE POSTED WITH THE GOVERNING AUTHORITY FOR THE EROSION CONTROL INSTALLATION AND MAINTENANCE.
- THE CONTRACTOR SHALL APPLY THE MINIMUM EROSION & SEDIMENT CONTROL MEASURES SHOWN ON THE PLAN IN CONJUNCTION WITH CONSTRUCTION SEQUENCING, SUCH THAT ALL ACTIVE WORK ZONES ARE PROTECTED. ADDITIONAL AND/OR ALTERNATIVE SEDIMENT AND EROSION CONTROL MEASURES MAY BE INSTALLED DURING THE CONSTRUCTION PERIOD IF FOUND NECESSARY BY THE CONTRACTOR, OWNER, ENGINEER OF RECORD, MUNICIPAL OFFICIALS, OR ANY GOVERNING AGENCY. THE CONTRACTOR SHALL CONTACT THE OWNER AND APPROPRIATE GOVERNING AGENCY FOR APPROVAL IF ALTERNATIVE CONTROLS OTHER THAN THOSE SHOWN ON THE PLANS ARE PROPOSED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL TAKE EXTREME CARE DURING CONSTRUCTION SO AS NOT TO DISTURB UNPROTECTED WETLAND AREAS OR INSTALLED SEDIMENTATION AND EROSION CONTROL MEASURES. THE CONTRACTOR SHALL INSPECT ALL SEDIMENT AND EROSION CONTROLS WEEKLY AND WITHIN 24 HOURS OF A STORM WITH A RAINFALL AMOUNT OF 0.25 INCHES OR GREATER TO VERIFY THAT THE CONTROLS ARE OPERATING PROPERLY AND MAKE REPAIRS AS NECESSARY IN A TIMELY MANNER.
- THE CONTRACTOR SHALL KEEP A SUPPLY OF EROSION CONTROL MATERIAL (SILT FENCE, COMPOSITE FILTER SOCK, EROSION CONTROL BLANKET, ETC) ON-SITE FOR PERIODIC MAINTENANCE AND EMERGENCY REPAIRS.
- ALL FILL MATERIAL PLACED ADJACENT TO ANY WETLAND AREA SHALL BE GOOD QUALITY, WITH LESS THAN 5% FINES PASSING THROUGH A #200 SIEVE (BANK RUN), SHALL BE PLACED IN MAXIMUM ONE FOOT LIFTS, AND SHALL BE COMPACTED TO 98% MAX. DRY DENSITY MODIFIED PROCTOR OR AS SPECIFIED IN THE CONTRACT SPECIFICATIONS.
- PROTECT EXISTING TREES THAT ARE TO BE SAVED BY FENCING, ORANGE SAFETY FENCE, CONSTRUCTION TAPE, OR EQUIVALENT FENCING TAPE. ANY LIMB TRIMMING SHOULD BE DONE AFTER CONSULTATION WITH AN ARBORIST AND BEFORE CONSTRUCTION BEGINS IN THAT AREA. FENCING SHALL BE MAINTAINED AND REPAIRED DURING CONSTRUCTION.
- CONSTRUCTION ENTRANCES (ANTI-TRACKING PADS) SHALL BE INSTALLED PRIOR TO ANY SITE EXCAVATION OR CONSTRUCTION ACTIVITY AND SHALL BE MAINTAINED THROUGHOUT THE DURATION OF ALL CONSTRUCTION IF REQUIRED. THE LOCATION OF THE TRACKING PADS MAY CHANGE AS VARIOUS PHASES OF CONSTRUCTION ARE COMPLETED. CONTRACTOR SHALL ENSURE THAT ALL VEHICLES EXITING THE SITE ARE PASSING OVER THE ANTI-TRACKING PADS PRIOR TO EXITING.
- ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE LIMIT OF DISTURBANCE, WHICH SHALL BE MARKED WITH SILT FENCE, SAFETY FENCE, HAY BALES, RIBBONS, OR OTHER MEANS PRIOR TO CLEARING. CONSTRUCTION ACTIVITY SHALL REMAIN ON THE UPHILL SIDE OF THE SEDIMENT BARRIER UNLESS WORK IS SPECIFICALLY CALLED FOR ON THE DOWNHILL SIDE OF THE BARRIER.
- NO CUT OR FILL SLOPES SHALL EXCEED 2:1 EXCEPT WHERE STABILIZED BY ROCK FACED EMBANKMENTS OR EROSION CONTROL BLANKETS. ALL SLOPES SHALL BE SEEDED AND BANKS WILL BE STABILIZED IMMEDIATELY UPON COMPLETION OF FINAL GRADING UNTIL TURF IS ESTABLISHED.
- DIRECT ANY DEWATERING PUMP DISCHARGE TO A SEDIMENT CONTROL DEVICE CONFORMING TO THE GUIDELINES WITHIN THE APPROVED LIMIT OF DISTURBANCE IF REQUIRED. DISCHARGE TO STORM DRAINS OR SURFACE WATERS FROM SEDIMENT CONTROLS SHALL BE CLEAR AND APPROVED BY THE PERMITTEE OR MUNICIPALITY.
- THE CONTRACTOR SHALL MAINTAIN A CLEAN CONSTRUCTION SITE AND SHALL NOT ALLOW THE ACCUMULATION OF RUBBISH OR CONSTRUCTION DEBRIS ON THE SITE. PROPER SANITARY DEVICES SHALL BE MAINTAINED ON-SITE AT ALL TIMES AND SECURED APPROPRIATELY. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID THE SPILLAGE OF FUEL OR OTHER POLLUTANTS ON THE CONSTRUCTION SITE AND SHALL ADHERE TO ALL APPLICABLE POLICIES AND REGULATIONS RELATED TO SPILL PREVENTION AND RESPONSE/CONTAINMENT.
- MINIMIZE LAND DISTURBANCES. SEED AND MULCH DISTURBED AREAS WITH TEMPORARY MIX AS SOON AS PRACTICABLE (2 WEEK MAXIMUM UNSTABILIZED PERIOD) USING PERENNIAL RYEGRASS AT 40 LBS PER ACRE, MULCH ALL CUT AND FILL SLOPES AND SWALES WITH LOOSE HAY AT A RATE OF 2 TONS PER ACRE. IF NECESSARY, REPLACE LOOSE HAY ON SLOPES WITH EROSION CONTROL BLANKETS OR JUTE CLOTH. MODERATELY GRADED AREAS, ISLANDS, AND TEMPORARY CONSTRUCTION STAGING AREAS MAY BE HYDROSEEDED WITH TACKIFIER.
- SWEEP AFFECTED PORTIONS OF OFF SITE ROADS ONE OR MORE TIMES A DAY (OR LESS FREQUENTLY IF TRACKING IS NOT A PROBLEM) DURING CONSTRUCTION. FOR DUST CONTROL, PERIODICALLY MOISTEN EXPOSED SOIL SURFACES WITH WATER ON UNPAVED TRAVELWAYS TO KEEP THE TRAVELWAYS DAMP. CALCIUM CHLORIDE MAY ALSO BE APPLIED TO ACCESS ROADS. DUMP TRUCK LOADS EXITING THE SITE SHALL BE COVERED.
- VEGETATIVE ESTABLISHMENT SHALL OCCUR ON ALL DISTURBED SOIL, UNLESS THE AREA IS UNDER ACTIVE CONSTRUCTION, IT IS COVERED IN STONE, OR SCHEDULED FOR PAVING WITHIN 30 DAYS. TEMPORARY SEEDING OR NON-LIVING SOIL PROTECTION OF ALL EXPOSED SOILS AND SLOPES SHALL BE INITIATED WITHIN THE FIRST 7 DAYS OF SUSPENDING WORK IN AREAS TO BE LEFT LONGER THAN 30 DAYS.
- MAINTAIN ALL PERMANENT AND TEMPORARY SEDIMENT CONTROL DEVICES IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. UPON COMPLETION OF WORK SWEEP CONCRETE PADS, CLEAN THE STORMWATER MANAGEMENT SYSTEMS AND REMOVE ALL TEMPORARY SEDIMENT CONTROLS ONCE THE SITE IS FULLY STABILIZED AND APPROVAL HAS BEEN RECEIVED FROM PERMITTEE OR THE MUNICIPALITY.
- SEEDING MIXTURES SHALL BE FUZZ & BUZZ MIX - PREMIUM - ERNMX-147, OR APPROVED EQUAL. NEW ENGLAND EROSION CONTROL RESTORATION MIX FOR STORMWATER BASINS & MOIST SITES, OR APPROVED EQUAL. SILT, BUT NOT ON THE BOTTOM OF THE BASIN. FUZZ & BUZZ MIX - PREMIUM - ERNMX-147, OR APPROVED EQUAL, ON THE SIDE SLOPES OF THE BASIN. SEE SHEET DN-2 FOR ALL SEED MIXTURES.
- REFER TO SHEET 2.41 FOR SEDIMENT & EROSION CONTROL NARRATIVE & DETAILS.

CONSTRUCTION OPERATION & MAINTENANCE PLAN

EAS MEASURE	INSPECTION SCHEDULE	MAINTENANCE REQUIRED
CONSTRUCTION ENTRANCE	DAILY	PLACE ADDITIONAL STONE. EXTEND THE LENGTH OR REMOVE AND REPLACE THE STONE. CLEAN PAVED SURFACES OF TRACKED SEDIMENT.
COMPOST FILTER SOCK	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.25"	REPAIR/REPLACE WHEN FAILURE OR DETERIORATION IS OBSERVED.
SILT FENCE	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.25"	REPAIR/REPLACE WHEN FAILURE OR DETERIORATION IS OBSERVED. REMOVE SILT WHEN IT REACHES 1/2 THE HEIGHT OF THE FENCE.
TOPSOIL/BORROW STOCKPILES	DAILY	REPAIR/REPLACE SEDIMENT BARRIERS AS NECESSARY.
TEMPORARY SOIL PROTECTION	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.25"	REPAIR ERODED OR BARE AREAS IMMEDIATELY. RESEED AND MULCH.
TEMPORARY SEDIMENT BASIN	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.50"	REMOVE SEDIMENT ONCE IT HAS ACCUMULATED TO ONE HALF OF MINIMUM REQUIRED VOLUME OF THE WET STORAGE. DEWATERING AS NEEDED. RESTORE BASIN TO ORIGINAL DIMENSIONS.
TEMPORARY SEDIMENT TRAP	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.50"	REMOVE SEDIMENT ONCE IT HAS ACCUMULATED TO ONE HALF OF MINIMUM REQUIRED VOLUME OF THE WET STORAGE. DEWATERING AS NEEDED. RESTORE TRAP TO ORIGINAL DIMENSIONS.

TEMPORARY SEDIMENT TRAP CALCULATIONS

TRAP NUMBER	DRAINAGE AREA (AC)	REQ. STORAGE VOLUME (CF)	REQ. WET VOLUME (CF)	BOTTOM ELEVATION (FT)	WET ELEVATION (FT)	DRY ELEVATION (FT)	TOP ELEVATION (FT)	WET VOL PROVIDED (CF)	DRY VOLUME PROVIDED (CF)	TOTAL VOLUME PROVIDED (CF)
1	2.29	8,286	4,143	203.00	206.20	207.00	207.00	4,170	4,823	8,993

LEGEND

	PROPERTY LINE
	SILT FENCE PROTECTION
	LIMIT OF DISTURBANCE
	TEMPORARY SEDIMENT TRAP / BASIN
	SILT SACK INLET PROTECTION
	MATERIAL STOCKPILE AREA
	CONSTRUCTION ENTRANCE

CONSTRUCTION SEQUENCE (PHASE I)

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

PHASE I:

- THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING. PHYSICALLY FLAG THE LIMITS OF DISTURBANCE IN THE FIELD AS NECESSARY TO FACILITATE THE PRE-CONSTRUCTION MEETING.
- CONDUCT A PRE-CONSTRUCTION MEETING TO DISCUSS THE PROPOSED WORK AND EROSION AND SEDIMENTATION CONTROL MEASURES. THE MEETING SHOULD BE ATTENDED BY THE OWNER, THE OWNER'S REPRESENTATIVE(S), THE GENERAL CONTRACTOR, DESIGNATED SUB-CONTRACTORS AND THE PERSON, OR PERSONS, RESPONSIBLE FOR THE IMPLEMENTATION, OPERATION, MONITORING AND MAINTENANCE OF THE EROSION AND SEDIMENTATION MEASURES. THE CONSTRUCTION PROCEDURES FOR THE ENTIRE PROJECT SHALL BE REVIEWED AT THIS MEETING.
- NOTIFY CALL BEFORE YOU DIG AT 811, AS REQUIRED, PRIOR TO THE START OF CONSTRUCTION.
- REMOVE EXISTING IMPEDIMENTS AS NECESSARY AND PROVIDE MINIMAL DISTURBANCE TO INSTALL THE REQUIRED CONSTRUCTION ENTRANCE.
- INSTALL ACCESS DRIVE.
- INSTALL SILT FENCE / PERIMETER SEC MEASURES AS PROPOSED (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL SEC MEASURES).
- PREPARE TEMPORARY PARKING AND STORAGE AREAS. ESTABLISH MATERIAL STOCKPILE AREA AND INSTALL SEC BARRIER SURROUNDING PILE.
- COMPLETE PHASE I CLEARING & GRUBBING PER DESIGN PLANS. STABILIZE OPEN SOILS WITH SPECIFIED SEED MIXES.

SEDIMENT BASIN CALCULATIONS

NOTE:

TEMPORARY SEDIMENT BASINS HAVE BEEN SIZED TO PROVIDE A MINIMUM STORAGE VOLUME AREA PER THE 2024 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

SEDIMENT BASIN #1:

CONTRIBUTING DRAINAGE AREA = 6.93+ ACRES
 $V = [(0.0434)(DRITE)(2,000)(BS/TON)]/[((V)(43,560\text{ SQ. FT./AC})]$
 $V = [(6.93)(50)(.38)(.80)(2,000)]/[(60)(43,560)] = 0.054\text{ ACRE-FT}$
 $V = 2,353\text{ CF}$
REQUIRED WET STORAGE = 2 X 1 YEAR SEDIMENT STORAGE
 $V = (2)(2,353) = 4,706\text{ CF}$
RESIDENCE VOLUME = $[(0.67\text{ IN})(6.93\text{ AC})]/(12\text{ IN/FT}) = 0.39\text{ ACRE-FT}$
RESIDENCE VOLUME = 16,989 CF
REQUIRED BASIN #1 STORAGE = $(2,353 + 4,706 + 16,989) = 24,048\text{ CF}$
SEDIMENT BASIN #1 STORAGE CAPACITY = 57,971 ± CF

SEDIMENT BASIN #2:

CONTRIBUTING DRAINAGE AREA = 12.61± ACRES
 $V = [(0.0434)(DRITE)(2,000)(BS/TON)]/[((V)(43,560\text{ SQ. FT./AC})]$
 $V = [(12.61)(50)(.38)(.80)(2,000)]/[(190)(43,560)] = 0.098\text{ ACRE-FT}$
 $V = 4,269\text{ CF}$
REQUIRED WET STORAGE = 2 X 1 YEAR SEDIMENT STORAGE
 $V = (2)(4,269) = 8,538\text{ CF}$
RESIDENCE VOLUME = $[(0.67\text{ IN})(12.61\text{ AC})]/(12\text{ IN/FT}) = 0.70\text{ ACRE-FT}$
RESIDENCE VOLUME = 30,492 CF
REQUIRED BASIN #2 STORAGE = $(4,269 + 8,538 + 30,492) = 43,299\text{ CF}$
SEDIMENT BASIN #2 STORAGE CAPACITY = 79,185 ± CF

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SOLLIENGINEERING.COM
T: (203) 880-5455 | F: (203) 880-9695

Drawn By: AWC

Checked By: EEL

Approved By: KMS

Project #: 23112101

Plan Date: 03/01/24

Scale: 1" = 250'

Project:

**PROPOSED SOLAR
PHOTOVOLTAIC ARRAY**
931 ROUTE 32
NORTH FRANKLIN, CONNECTICUT

Sheet Title:

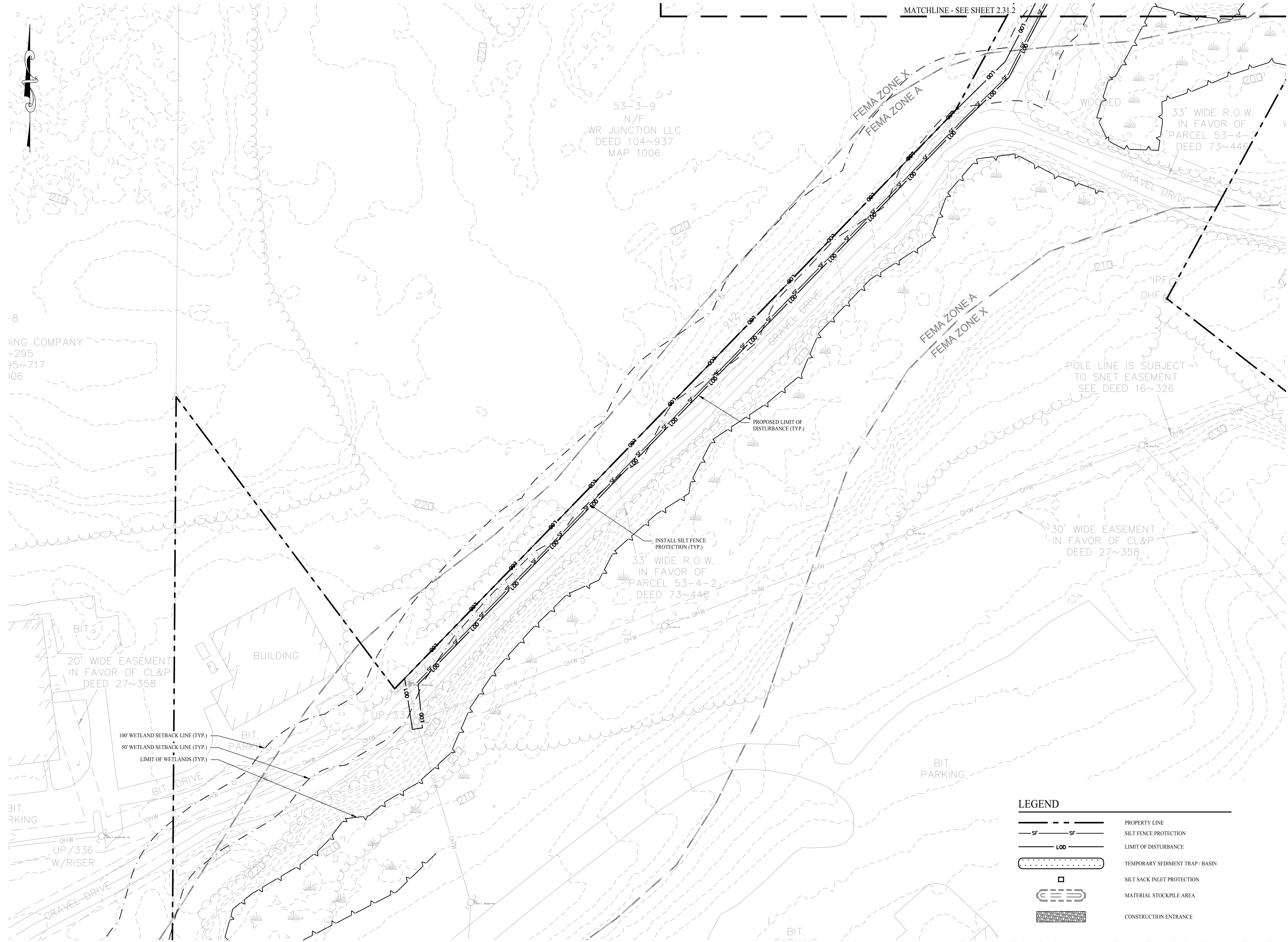
**OVERALL SOIL
EROSION &
SEDIMENT
CONTROL PLAN
- PHASE I**

Sheet #:

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LEGEND

- | | |
|--|---------------------------------|
| | PROPERTY LINE |
| | SILT FENCE PROTECTION |
| | LIMIT OF DISTURBANCE |
| | TEMPORARY SEDIMENT TRAP / BASIN |
| | SILT SACK INLET PROTECTION |
| | MATERIAL STOCKPILE AREA |
| | CONSTRUCTION ENTRANCE |

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Project #: 23112101
Plan Date: 03/01/24
Scale: 1" = 40'



Project:
**PROPOSED SOLAR
PHOTOVOLTAIC ARRAY**
931 ROUTE 32
NORTH FRANKLIN, CONNECTICUT

Sheet Title:
SOIL EROSION &
SEDIMENT
CONTROL PLAN
PHASE I
(SHEET 1 OF 4)

Sheet #:
2.31.1

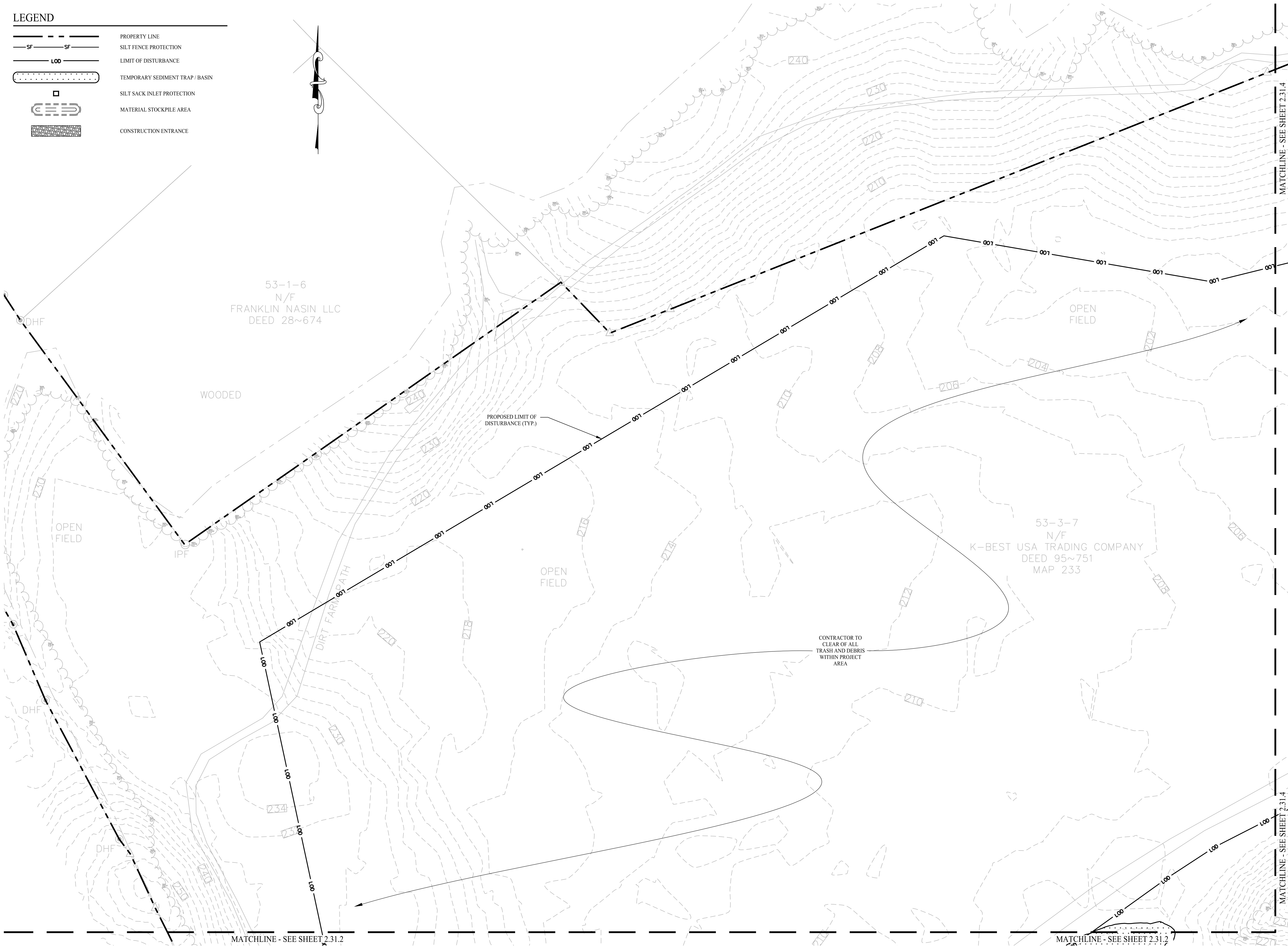
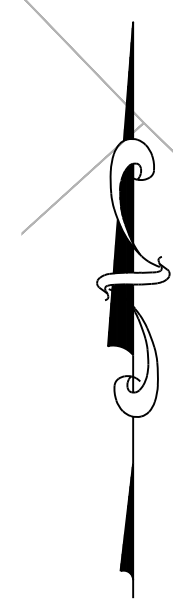
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- PROPERTY LINE
- SF

SF

SILT FENCE PROTECTION
- LOD

LIMIT OF DISTURBANCE
- TEMPORARY SEDIMENT TRAP / BASIN
- SILT SACK INLET PROTECTION
- MATERIAL STOCKPILE AREA
- CONSTRUCTION ENTRANCE



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Approved By:	KMS		
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Scale:	1" = 40'		
Project:			
PROPOSED SOLAR PHOTOVOLTAIC ARRAY 931 ROUTE 32 NORTH FRANKLIN, CONNECTICUT			
Sheet Title: SOIL EROSION & SEDIMENT CONTROL PLAN PHASE I (SHEET 3 OF 4)		Sheet #: 2.31.3	

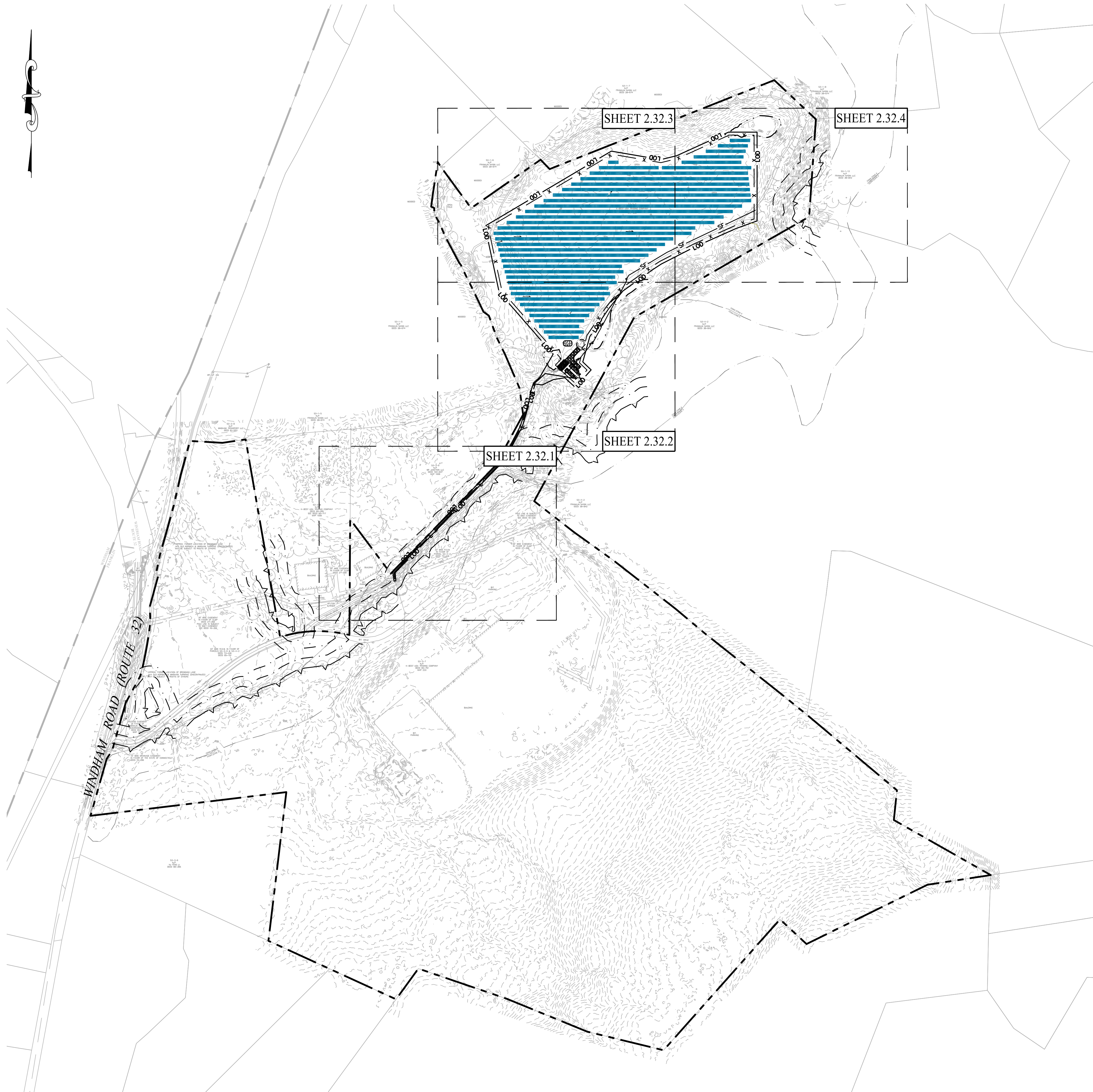
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PROPOSED SOLAR PHOTOVOLTAIC ARRAY 931 ROUTE 32 NORTH FRANKLIN, CONNECTICUT			
Sheet Title: SOIL EROSION & SEDIMENT CONTROL PLAN PHASE I (SHEET 4 OF 4)		Sheet #: 2.31.4	

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SEDIMENT & EROSION CONTROL NARRATIVE

1. THE PROJECT INVOLVES THE CONSTRUCTION OF A GROUND MOUNTED SOLAR PANEL FACILITY WITH ASSOCIATED EQUIPMENT, INCLUDING GRADING OF APPROXIMATELY 20.3+ ACRES OF EXISTING LOT.
- THE PROPOSED PROJECT INVOLVES THE FOLLOWING CONSTRUCTION:
- A. CLEARING, GRUBBING, AND GRADING OF EXISTING LOT.
B. CONSTRUCTION OF 12,038 GROUND MOUNTED SOLAR PANELS AND ASSOCIATED EQUIPMENT.
C. THE STABILIZATION OF DISTURBED AREAS WITH PERMANENT VEGETATIVE TREATMENTS.
2. FOR THIS PROJECT, THERE ARE APPROXIMATELY 20.3+ ACRES OF THE SITE BEING DISTURBED WITH NEGLIGIBLE INCREASE IN THE IMPERVIOUS AREA OF THE SITE. IMPERVIOUS AREAS ARE LIMITED TO THE CONCRETE PADS FOR ELECTRICAL EQUIPMENT & GRAVEL ACCESS DRIVE.
3. THE PROJECT AREA, AS MAPPED IN THE SOIL SURVEY OF STATE OF CONNECTICUT (NRCS, VERSION 18, DEC. 6, 2018), CONTAINS TYPE 38C & 38E (HYDROLOGIC SOIL GROUP A). A GEOTECHNICAL ENGINEERING REPORT IS SCHEDULED AND WILL BE PROVIDED UNDER SEPARATE COVER.
4. IT IS ANTICIPATED THAT CONSTRUCTION WILL BE COMPLETED IN APPROXIMATELY 4-6 MONTHS.
5. REFER TO THE CONSTRUCTION SEQUENCING AND EROSION AND SEDIMENTATION NOTES FOR INFORMATION REGARDING SEQUENCING OF MAJOR OPERATIONS IN THE ON-SITE CONSTRUCTION PHASES.
6. STORMWATER MANAGEMENT DESIGN CRITERIA UTILIZES THE APPLICABLE SECTIONS OF THE 2004 CONNECTICUT STORMWATER QUALITY MANUAL AND THE TOWN OF MONTVILLE STANDARDS, TO THE EXTENT POSSIBLE AND PRACTICABLE FOR THIS PROJECT ON THIS SITE. EROSION AND SEDIMENTATION MEASURES ARE BASED UPON ENGINEERING PRACTICE, JUDGEMENT AND THE APPLICABLE SECTIONS OF THE CONNECTICUT EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS, LATEST EDITION.
7. DETAILS FOR THE TYPICAL STORMWATER MANAGEMENT AND EROSION AND SEDIMENTATION MEASURES ARE SHOWN ON THE PLAN SHEETS OR PROVIDED AS SEPARATE SUPPORT DOCUMENTATION FOR REVIEW IN THIS PLAN.
8. CONSERVATION PRACTICES TO BE USED DURING CONSTRUCTION:
- A. STAGED CONSTRUCTION;
B. MINIMIZE THE DISTURBED AREAS TO THE EXTENT PRACTICABLE DURING CONSTRUCTION;
C. STABILIZE DISTURBED AREAS WITH TEMPORARY OR PERMANENT MEASURES AS SOON AS POSSIBLE, BUT NO LATER THAN 7-DAYS FOLLOWING DISTURBANCE;
D. MINIMIZE IMPERVIOUS AREAS;
E. UTILIZE APPROPRIATE CONSTRUCTION EROSION AND SEDIMENTATION MEASURES.
9. THE FOLLOWING SEPARATE DOCUMENTS ARE TO BE CONSIDERED A PART OF THE EROSION AND SEDIMENTATION PLAN:
- A. STORMWATER MANAGEMENT REPORT.
B. SWPCP, TO BE ISSUED AT A LATER DATE.

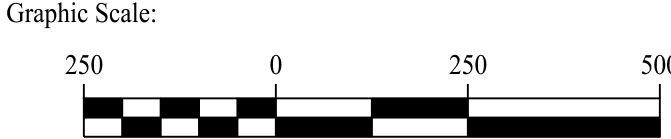
LEGEND

- PROPERTY LINE
SILT FENCE PROTECTION
LIMIT OF DISTURBANCE
TEMPORARY SEDIMENT TRAP / BASIN
SILT SACK INLET PROTECTION
MATERIAL STOCKPILE AREA
CONSTRUCTION ENTRANCE
TEMPORARY CONCRETE WASHPIT

CONSTRUCTION SEQUENCE (PHASE II)

- PHASE II:
1. TEMPORARILY SEED, THROUGHOUT CONSTRUCTION, DENUDED AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE.
2. INSTALL RACKING POSTS FOR SOLAR PANELS.
3. INSTALL SOLAR PANELS AND COMPLETE ELECTRICAL INSTALLATION.
4. COMPLETE REMAINING SITE WORK, INCLUDING CHAIN LINK FENCE, EQUIPMENT PADS, AND INTERCONNECTION ROUTE. STABILIZE ALL DISTURBED AREAS THROUGHOUT CONSTRUCTION.
5. PREPARE SITE FOR FINAL GRADING.
6. PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
7. PER APPENDIX I (I)(1)(C)(iii); FOR SLOPES GREATER THAN OR EQUAL TO 8%, EROSION CONTROL BLANKETS OR STUMP GRINDINGS OR EROSION CONTROL MIX MULCH OR HYDROSEED WITH TACKIFIER SHALL BE APPLIED WITHIN 72 HOURS OF FINAL GRADING, OR WHEN A RAINFALL OF 0.5 INCHES OR GREATER IS PREDICTED WITHIN 24 HOURS OF FINAL GRADING, WHICHEVER TIME PERIOD IS LESS.
8. CONVERT SEDIMENT BASINS TO PERMANENT STORMWATER BASINS. REMOVE ALL SEDIMENT AND REPAIR ALL BASIN BANKS AS REQUIRED.
9. FINE GRADE, RAKE, SEED, AND MULCH ALL REMAINING DISTURBED AREAS.
10. CONTRACTOR / CONSTRUCTION MANAGER TO COORDINATE WITH ENGINEER OF RECORD AND SOIL CONSERVATION DISTRICT AGENT TO OBTAIN STABILIZED SITE STATUS.
11. CONTINUE DAILY INSPECTION REPORTS UNTIL THE FINAL DAILY INSPECTION REPORT IS SIGNED BY THE CONSTRUCTION MANAGER AND SUBMITTED.

Rev. #:	Date	Description
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SOLLIENGINEERING.COM
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Checked By: EEL
Approved By: KMS
Project #: 23112101
Plan Date: 03/01/24
Scale: 1" = 250'



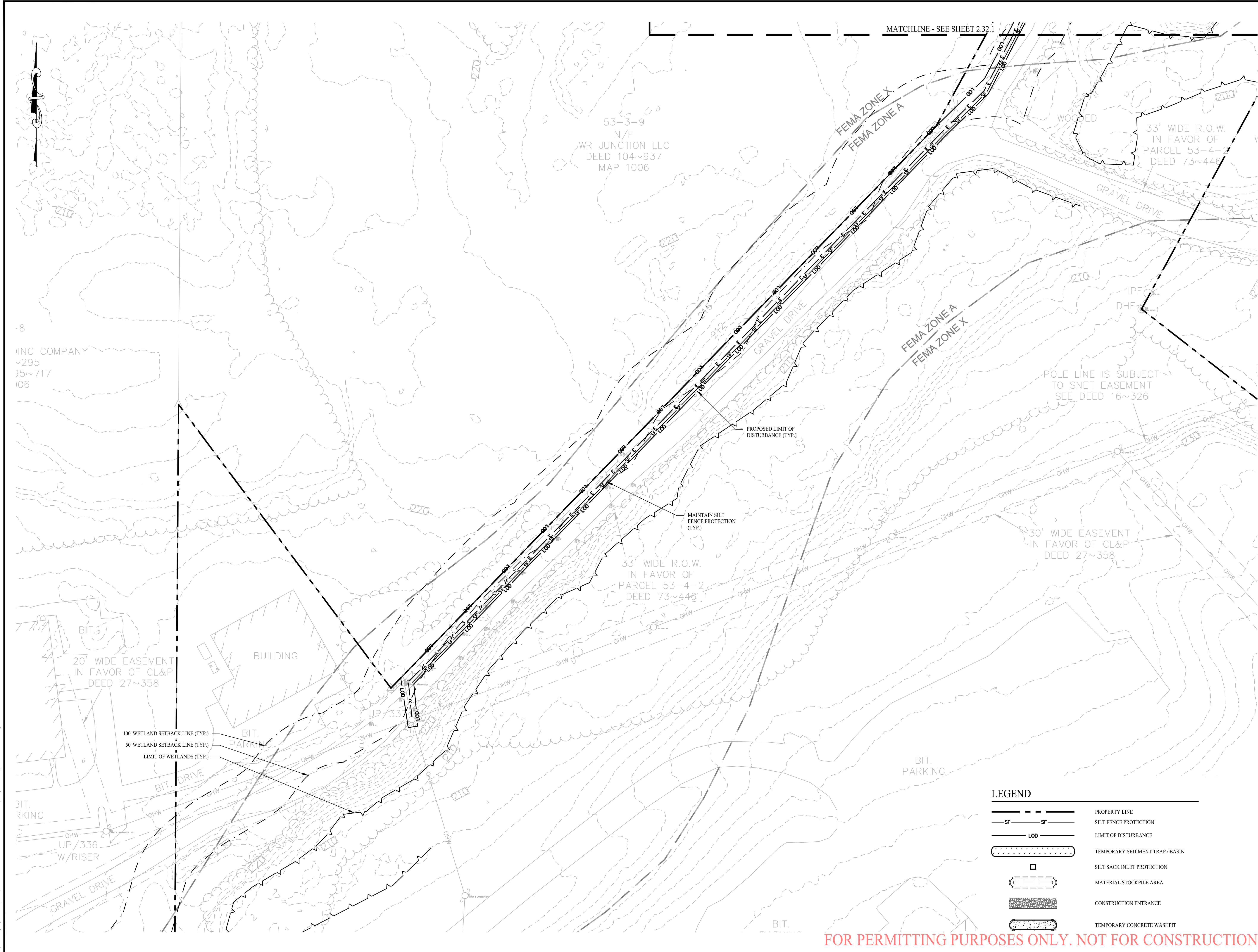
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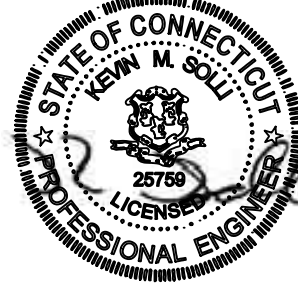
PROPOSED SOLAR PHOTOVOLTAIC ARRAY
931 ROUTE 32
NORTH FRANKLIN, CONNECTICUT

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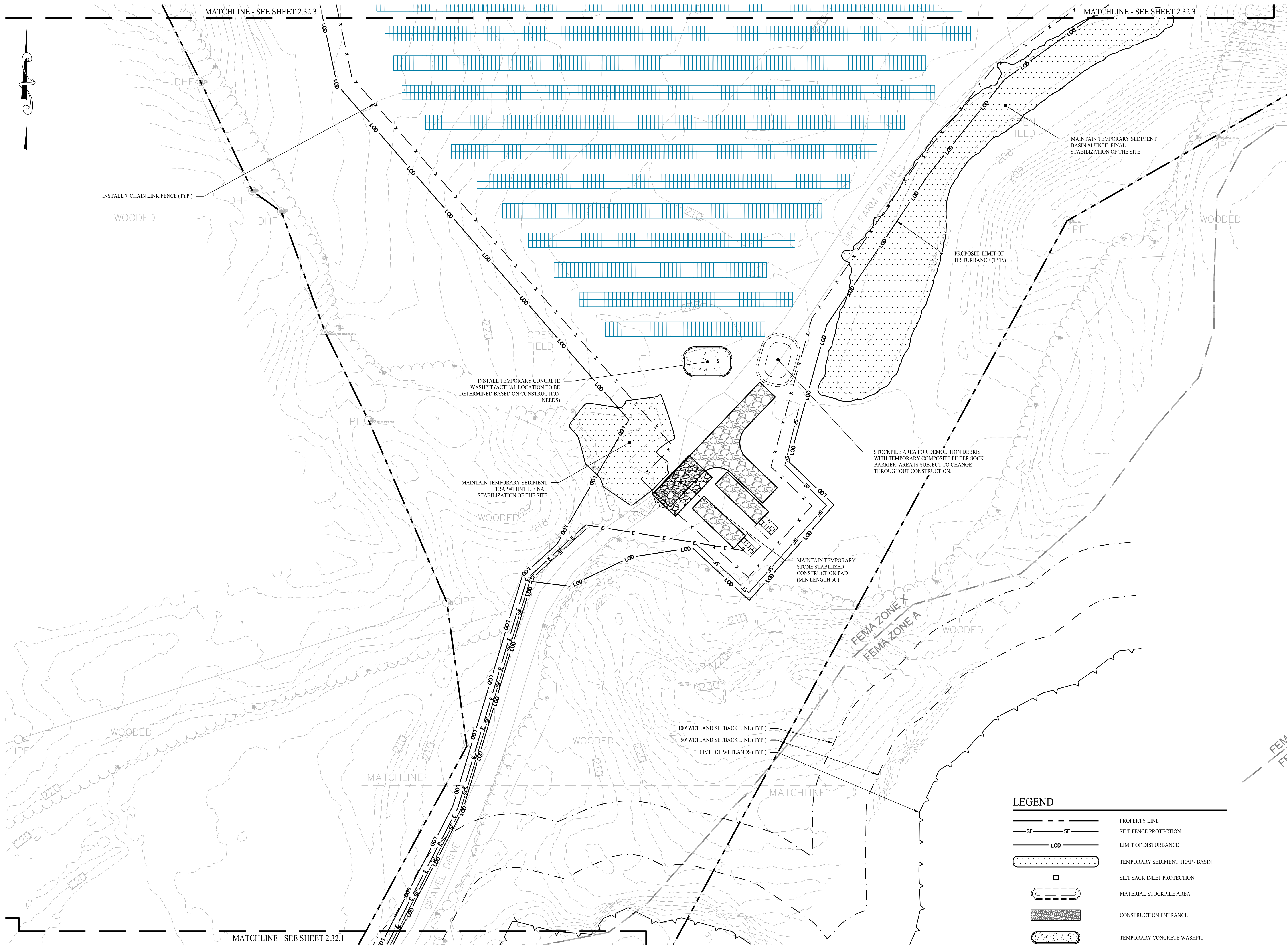
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Drawn By: AWC	<div style="text-align: center;"><p>Kevin Solli, P.E. CT 25759</p></div>	
Checked By: EEL		
Approved By: KMS		
Project #: 23112101		
Plan Date: 03/01/24		
Scale: 1" = 40'		
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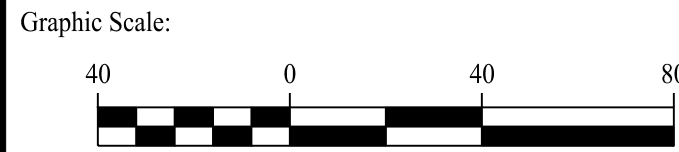
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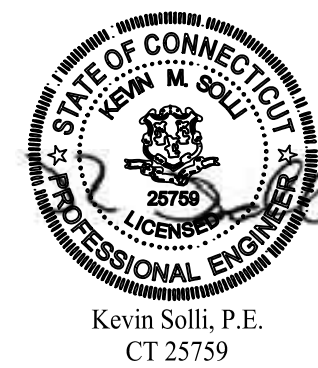
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-SF- -SF-	SILT FENCE PROTECTION
-LOO-	LIMIT OF DISTURBANCE
[Dotted Area]	TEMPORARY SEDIMENT TRAP / BASIN
[Square]	SILT SACK INLET PROTECTION
[Hatched Area]	MATERIAL STOCKPILE AREA
[Stippled Area]	CONSTRUCTION ENTRANCE
[Patterned Area]	TEMPORARY CONCRETE WASHPIT

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Project:
**PROPOSED SOLAR
PHOTOVOLTAIC ARRAY**
931 ROUTE 32
NORTH FRANKLIN, CONNECTICUT

Sheet Title:
SOIL EROSION &
SEDIMENT
CONTROL PLAN
PHASE II
(SHEET 2 OF 4)

Sheet #:
2.32.2

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LEGEND

- SF

SF

LOD
- PROPERTY LINE

SILT FENCE PROTECTION

LIMIT OF DISTURBANCE

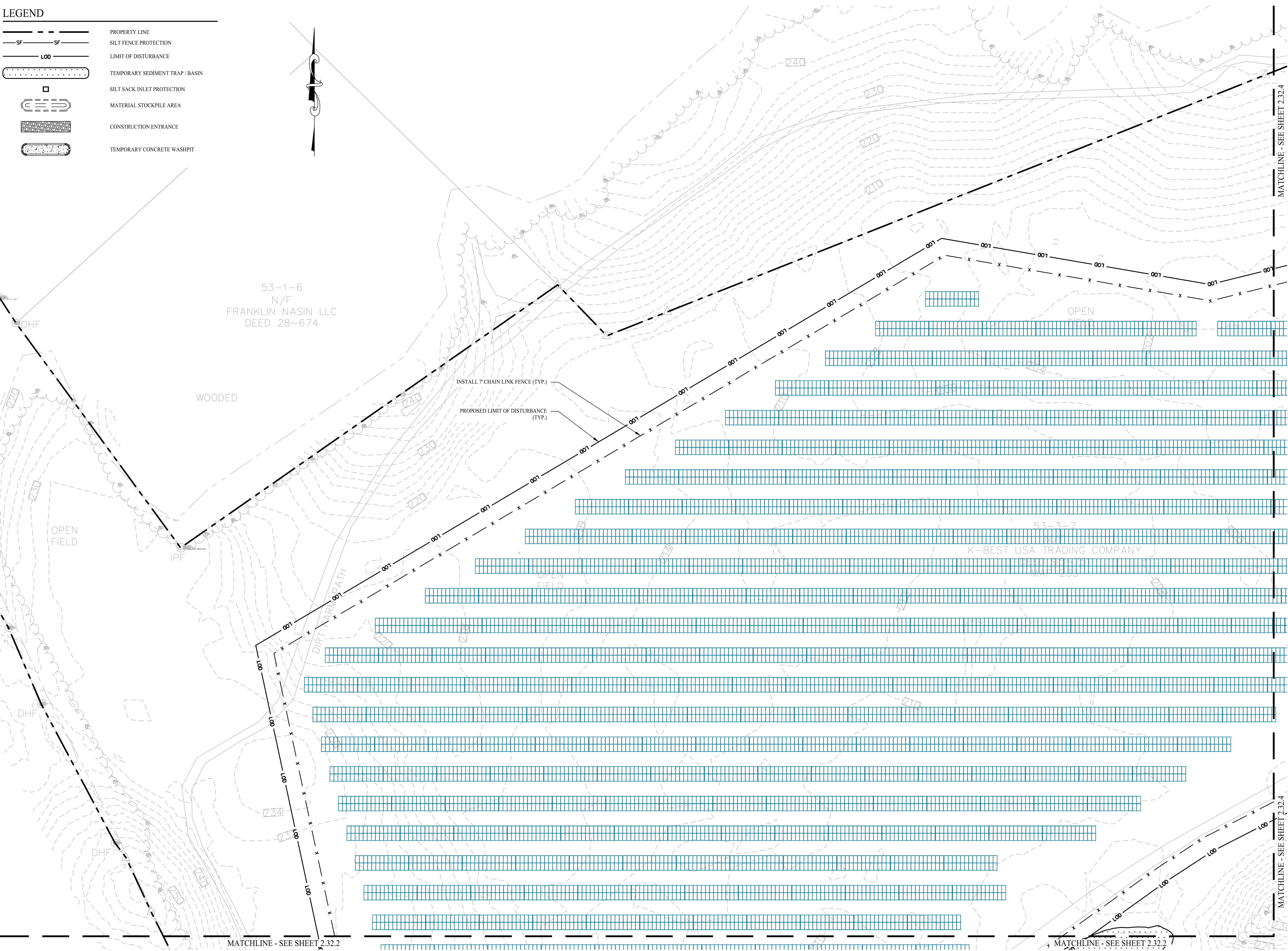
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SILT SACK INLET PROTECTION

MATERIAL STOCKPILE AREA

CONSTRUCTION ENTRANCE

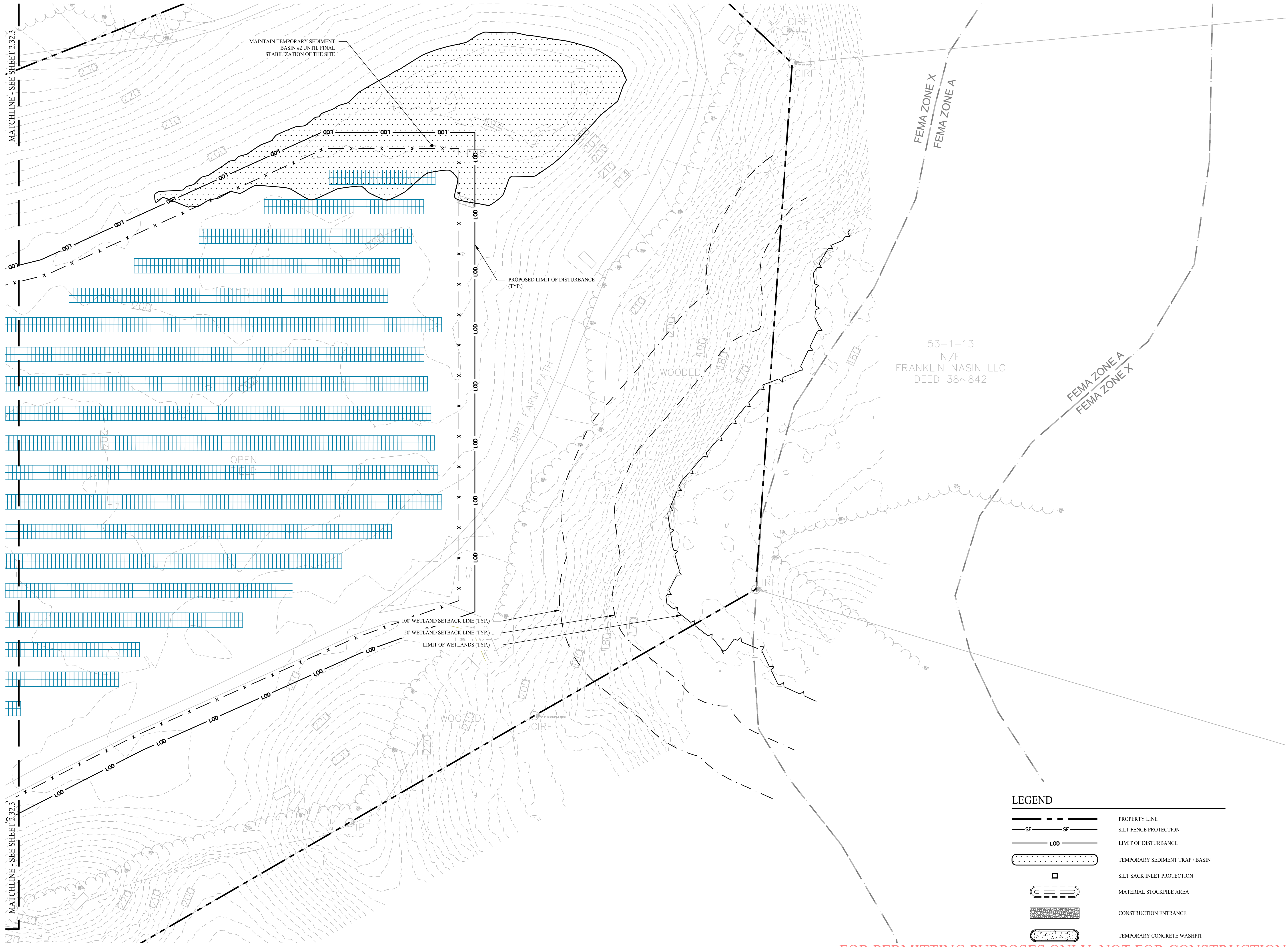
TEMPORARY CONCRETE WASHPIT



Rev. #:			Date:			Description:		
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<div><div><div></div><div>SOLLI</div><div>ENGINEERING</div></div><div><div>MONROE, CT W. HARTFORD, CT NORWOOD, MA</div><div>SOLLIENGINEERING.COM</div><div>T: (203) 880-5455 F: (203) 880-9095</div></div></div>								
Drawn By:			AWC			<div><div>STATE OF CONNECTICUT</div><div>KEVIN M. SOLLI</div><div>20709</div><div>PROFESSIONAL ENGINEER</div></div> <div>Kevin Solli, P.E. CT 25759</div>		
Checked By:			EEL					
Approved By:			KMS					
Project #:			23112101					
Plan Date:			03/01/24					
Scale:			1" = 40'					
Project:			PROPOSED SOLAR PHOTOVOLTAIC ARRAY					
			931 ROUTE 32					
			NORTH FRANKLIN, CONNECTICUT					
Sheet Title:			SOIL EROSION & SEDIMENT CONTROL PLAN PHASE II (SHEET 3 OF 4)			Sheet #:		
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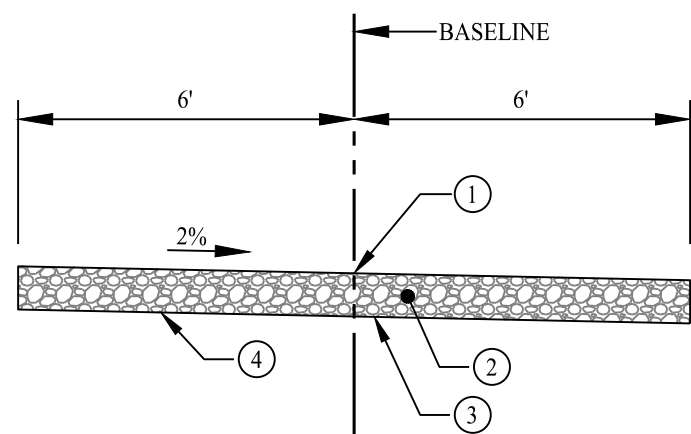
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	LIMIT OF DISTURBANCE
	TEMPORARY SEDIMENT TRAP / BASIN
	SILT SACK INLET PROTECTION
	MATERIAL STOCKPILE AREA
	CONSTRUCTION ENTRANCE
	TEMPORARY CONCRETE WASHPIT

Rev. #:		Date		Description	
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Scale:		1" = 40'			
Project:					
PROPOSED SOLAR PHOTOVOLTAIC ARRAY 931 ROUTE 32 NORTH FRANKLIN, CONNECTICUT					
Sheet Title:		SOIL EROSION & SEDIMENT CONTROL PLAN PHASE II (SHEET 4 OF 4)		Sheet #:	
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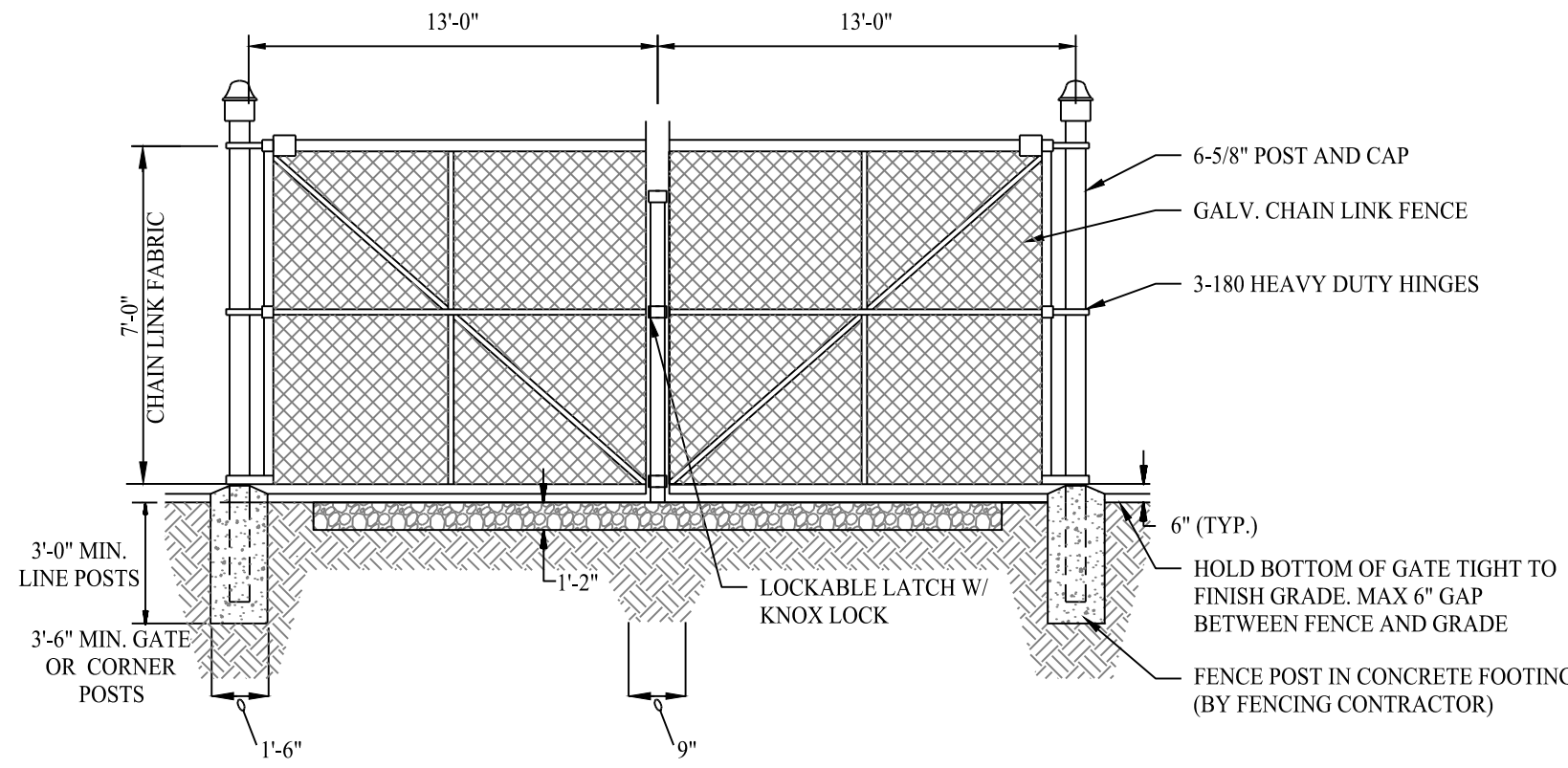
- ① POINT OF APPLICATION OF GRADE OR MATCH EXISTING GROUND
② 8" LAYER CRUSHER RUN GRAVEL
③ NONWOVEN GEOTEXTILE (MIRAFI 140N OR EQUAL)
④ LIMIT OF EXCAVATION OR LIMIT OF COMPACTION

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



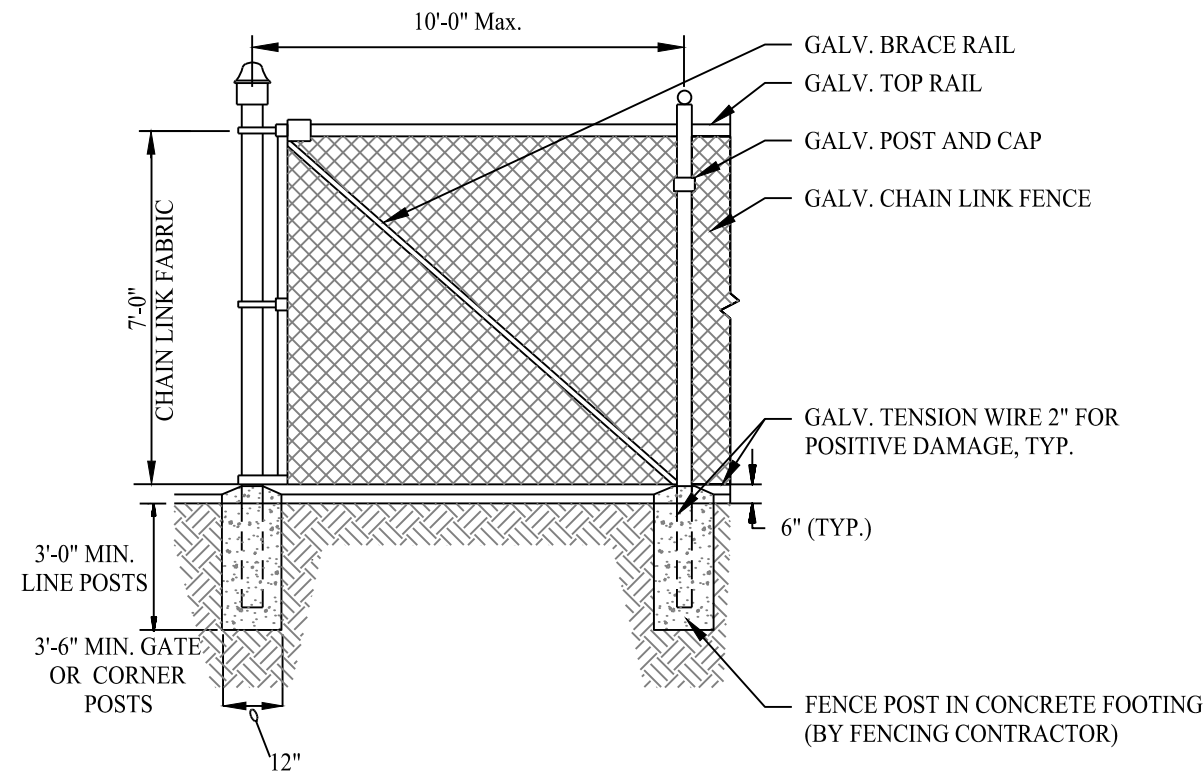
TYPICAL GRAVEL ROADWAY SECTION

SCALE: NTS



DOUBLE SWING GATE DETAIL

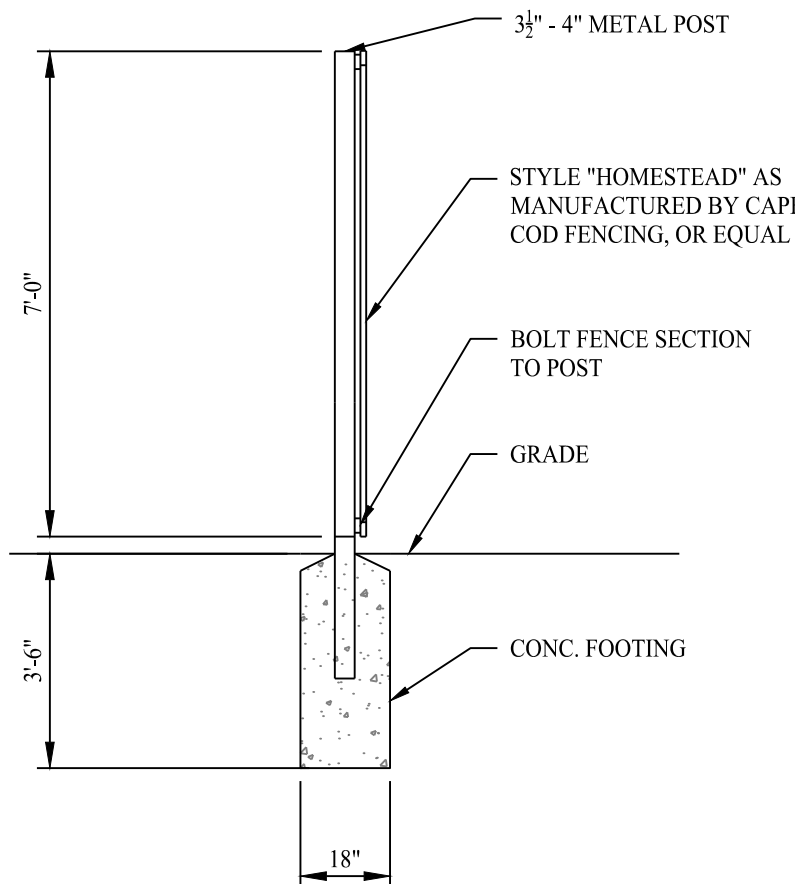
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NOTE:
SEE THE SITework SPECIFICATIONS FOR THE SIZE, TYPE, AND GAUGE OF MATERIALS THAT WILL BE USED FOR CONSTRUCTION OF A CHAIN LINK FENCE.

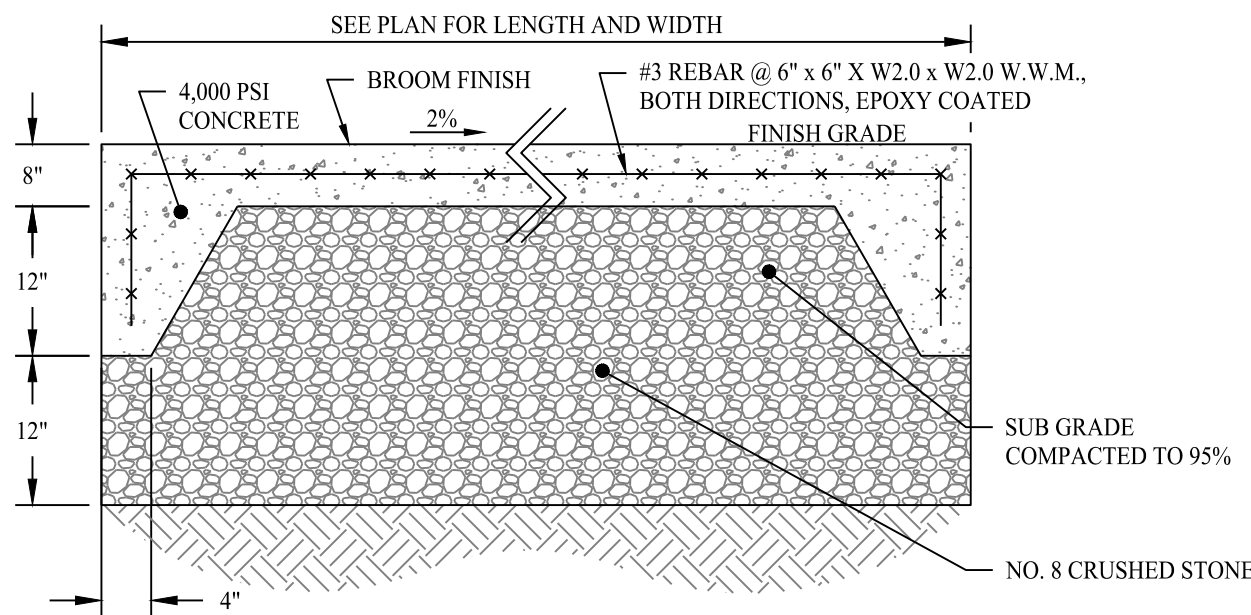
7' HIGH CHAIN LINK FENCE DETAIL

SCALE: NTS



FENCE POST INSTALLATION

SCALE: NTS



CONCRETE PAD DETAIL

SCALE: NTS

ENVIRONMENTAL NOTES - RESOURCE PROTECTION MEASURES

WOOD TURTLE AND EASTERN PEARL SHELL PROTECTION PROGRAM

WOOD TURTLES ARE LISTED AS STATE 'SPECIES OF SPECIAL CONCERN' BY THE CT DEEP. WOOD TURTLES TYPICALLY INHABIT RIPARIAN ECOSYSTEMS, UTILIZING CLEAR, COLD-WATER STREAMS WITH A SUBSTRATE COMPRISED OF SAND, GRAVEL AND COBBLES. THEY MATE, FORAGE AND HIBERNATE IN THESE RIPARIAN HABITATS. WOOD TURTLES ADDITIONALLY USE EARLY SUCCESSIONAL HABITATS ADJACENT TO OR WITHIN 0.2 MILES OF THEIR RIPARIAN HABITAT, SUCH AS PASTURES, OLD FIELDS, UTILITY CORRIDORS AND WOODLANDS DURING THE SUMMER MONTHS FOR FORAGING. WOOD TURTLES ARE ACTIVE BETWEEN APRIL 1 AND NOVEMBER 1. IN THE REMAINING MONTHS, THEY ARE DORMANT, IN A STATE OF BRUMATION, OVERWINTERING IN THE BANKS OF THEIR RIVERINE HABITAT IN SUBMERGED TREE ROOTS.

EASTERN PEARL SHELLS ARE LISTED AS STATE 'SPECIES OF SPECIAL CONCERN' BY THE CT DEEP. SPECIES CLASSIFIED AS 'SPECIAL CONCERN' BY THE CT DEEP ARE NATIVE SPECIES THAT HAVE A NATURALLY RESTRICTED RANGE OR HABITAT IN THE STATE OR HAVE A LOW ENOUGH POPULATION LEVEL THAT THE UNREGULATED TAKING OF THESE SPECIES WOULD BE DETRIMENTAL TO THE POPULATION AS A WHOLE OR COULD LEAD TO THE SPECIES EXTIRPATION FROM THE STATE. THESE FRESHWATER MUSSELS INHABIT CLEAR, FAST-FLOWING AND UNPOLLUTED STREAMS AND RIVERS, IDEALLY THOSE THAT ALSO SERVE AS GOOD TROUT STREAMS. THEY UTILIZE STREAMS WITH A VARIETY OF SUBSTRATES BUT ARE NOT FOUND IN LAKES AND PONDS. IDEAL STREAMS ARE HEAVILY SHADED BY A RIPARIAN CORRIDOR, HAVE HIGH DISSOLVED OXYGEN AND STABLE STREAM CHANNELS. THEY ARE FOUND IN MOST MAJOR WATERSHEDS WITHIN CONNECTICUT BUT ARE MOST PREVALENT IN THE NORTHERN AND NORTHWESTERN PORTIONS OF THE STATE.

THE FOLLOWING IS A SUMMARY OF MEASURES REQUIRED BY THE CT DEEP AND TO BE USED BEFORE, DURING AND FOLLOWING CONSTRUCTION TO PROTECT WOOD TURTLES THAT MAY POTENTIALLY BE ENCOUNTERED AT THE PROJECT SITE. INITIAL GROUNDWORK ASSOCIATED WITH THE PROJECT SHOULD BE CONDUCTED BETWEEN NOVEMBER 1 AND MARCH 31, THE WOOD TURTLES' DORMANT SEASON. IF MOWING IS TO OCCUR DURING THIS TIME FRAME, WHETHER PRE- OR POST-CONSTRUCTION, THE CT DEEP RECOMMENDS THE FOLLOWING:

PRE-CONSTRUCTION:

- IN PREPARING THE SITE FOR DEVELOPMENT, EXCLUSIONARY FENCING THAT IS AT LEAST 20 INCHES TALL AND THAT IS SECURED AND KEYED INTO THE GROUND, MUST BE INSTALLED AROUND THE PERIMETER OF THE WORK AREA TO PREVENT TURTLE ACCESS TO THE SITE. THE WORK AREA INCLUDES ALL AREAS USED FOR SITE ACCESS, EQUIPMENT PARKING, MATERIAL STAGING, MATERIAL STORAGE, AND CONSTRUCTION PURPOSES. THE ENTRANCE TO THE SITE ALSO MUST BE CORDONED OFF WITH AN EXCLUSIONARY METHOD WHEN THE SITE IS NOT IN USE. THIS CAN BE ACCOMPLISHED WITH A ROW OF HAY BALES THAT CAN BE MOVED WHEN ACCESS TO THE SITE IS NEEDED.
- IF MOWING NEEDS TO OCCUR BEFORE EXCLUSIONARY FENCE INSTALLATION WITHIN THE ACTIVE TURTLE TIMEFRAME, THE MOWING STYLE, MOWING HEIGHT, MOWING DIRECTIONALITY, MOWING SPEED AND THE LOCATION OF NON-MOWING AREAS SHOULD BE AS FOLLOWS:
 - MOWING STYLE: AVOID FLAIL MOWER HEADS WITH GUIDE BARS THAT RIDE ALONG THE GROUND. SICKLE BAR MOWERS WILL HAVE THE LEAST IMPACT IF MOWING EVERY ONE TO FIVE YEARS. IN AREAS WITH MORE WOODY VEGETATION, A LESS THAN ONE TO TWO-INCH DIAMETER BRONTOSAURUS-STYLE MOWER WILL HAVE THE LEAST IMPACT ON TURTLES.
 - MOWING HEIGHT: THE RETENTION OF MOWING STUBBLE SEVEN TO TWELVE INCHES IN HEIGHT WILL REDUCE MORTALITY, REDUCE BLADE WEAR AND WILL LEAVE IMPORTANT COVER FOR ANIMALS.
 - MOWING DIRECTIONALITY: START MOWING FROM THE CENTER OF THE FIELD AND USE A BACK-AND-FORTH APPROACH, OR LARGE CIRCULAR PATTERN TO AVOID CONCENTRATING FLEEING ANIMALS WHERE THEY MAY BE KILLED OR STRANDED. IN ADDITION, LEAVE AN UNMOWED 50-FOOT STRIP AROUND THE PERIMETER OF THE FIELD AND MOW THIS AREA LAST. MOST TURTLES ARE FOUND WITHIN THESE AREAS, AND THIS PROVIDES TIME FOR THEM TO REACT TO THE MOWING ACTIVITY AND MOVE OUT OF THE AREA. IF FIELD IS NEAR A STREAM, START MOWING THE SIDE FURTHEST FROM THE STREAM AND WORK TOWARDS THE STREAM. IF FIELD IS BORDERED BY WOODLAND, START MOWING SIDE FURTHEST FROM WOODLAND AND WORK TOWARDS WOODLAND. IF FIELD IS BORDERED BY ROAD, START MOWING NEXT TO THE ROAD AND WORK YOUR WAY ACROSS THE FIELD.
 - MOWING SPEED: MOWING IN LOW GEAR OR AT SLOW SPEEDS WILL ALLOW TURTLES TO REACT AND MOVE OUT OF THE FIELD.
 - NON-MOWING AREAS: LEAVE AN UNMOWED FIELD EDGE IN HIGH TURTLE-USE AREAS UNTIL AFTER SEPTEMBER 15.
- ONCE EXCLUSIONARY FENCING HAS BEEN INSTALLED SURROUNDING THE WORK AREA, A QUALIFIED INDIVIDUAL MUST SURVEY THE AREA TO DETERMINE IF THERE ARE ANY TURTLES WITHIN THE WORK AREA. IF TURTLES ARE IDENTIFIED, THEY ARE TO BE CAREFULLY MOVED TO AN AREA OUTSIDE OF THE WORK AREA IN A SAFE MANNER THAT WILL NOT HARM THEM. IF LISTED SPECIES OF TURTLES ARE IDENTIFIED, THE QUALIFIED INDIVIDUAL WILL DOCUMENT AND REPORT THESE FINDINGS TO THE CT DEEP IN THE MANNER IDENTIFIED WITHIN THE NDDP DETERMINATION LETTER. ONLY WHEN THE QUALIFIED INDIVIDUAL DETERMINES THAT NO TURTLES ARE WITHIN THE WORK AREA AND THAT THE SITE IS SECURE FROM TURTLES RE-ENTERING CAN CONSTRUCTION BEGIN.

• PRIOR TO COMMENCING ACTIVITY, A MEETING IS TO BE HELD WITH ALL CONSTRUCTION PERSONNEL WORKING WITHIN THE EXCLUSION AREA BY THE QUALIFIED INDIVIDUAL TO APPRAISE THEM OF THE SPECIES DESCRIPTION AND THEIR DUTIES IN REGARD TO MAINTAINING THE SECURITY OF THE SITE. SHOULD CONSTRUCTION PERSONNEL ENCOUNTER A TURTLE, THE QUALIFIED INDIVIDUAL WILL INSTRUCT PERSONNEL DURING THIS MEETING ON HOW TO CAREFULLY REMOVE THE TURTLE FROM THE SITE, HOW TO DOCUMENT THEIR FINDINGS AND TO REPORT IT TO THE QUALIFIED INDIVIDUAL FOR REPORTING TO THE CT DEEP.

MID-CONSTRUCTION:

- PRIOR TO THE START OF WORK ACTIVITY EACH DAY, THE EXCLUSIONARY FENCING IS TO BE INSPECTED BY CONSTRUCTION PERSONNEL AND ALL GAPS OR OPENINGS AT THE GROUND-LEVEL IDENTIFIED SHOULD BE FIXED OR REPAIRED IMMEDIATELY TO PREVENT TURTLES ACCESS TO THE SITE. IF A BREACH IS IDENTIFIED, WORK SHALL HALT UNTIL THE QUALIFIED INDIVIDUAL SURVEYS THE SITE AND DETERMINES NO TURTLES ARE WITHIN THE WORK AREA.
- ALL HEAVY MACHINERY (ACTIVE OR PARKED) MUST BE WITHIN THE LIMITS OF THE EXCLUSIONARY ZONE OR ON PAVED SURFACES. NO MACHINERY IS TO BE PARKED IN ANY TURTLE HABITAT (I.E., THE AREA OUTSIDE OF THE EXCLUSIONARY ZONE).
- AT THE END OF EACH WORKDAY, THE EXCLUSIONARY MEASURES AT THE ENTRANCE TO THE WORK SITE MUST BE REIMPLEMENTED TO PREVENT TURTLES FROM ACCESSING THE SITE. IF THIS IS NOT DONE, THE EXCLUSIONARY ZONE IS CONSIDERED VOID, AND A QUALIFIED INDIVIDUAL MUST RE-SURVEY THE SITE AND CONCLUDE THAT NO TURTLES ARE PRESENT WITHIN THE WORK AREA BEFORE CONSTRUCTION ACTIVITY CAN BEGIN AGAIN.

POST-CONSTRUCTION:

- AFTER COMPLETION OF THE PROJECT, EXCLUSIONARY FENCING SHALL BE REMOVED ONCE THE AREA IS STABILIZED TO ALLOW FOR REPTILE AND AMPHIBIAN PASSAGE TO RESUME. IF THE PROJECT INCLUDES PHASING MEASURES THAT CORDON OFF SEPARATE SEGMENTS OF THE WORKSITE, ALL ACTIVE AREAS MUST REMAIN EXCLUSIONARY TO TURTLES. EXCLUSIONARY FENCING CAN BE REMOVED FROM INDIVIDUAL AREAS WHEN ALL WORK HAS BEEN COMPLETED IN THAT AREA.
- AS THE PROJECT SITE IS PROPOSED TO BE CONTINUOUSLY MAINTAINED AS GRASSLAND HABITAT, THE GRASSLAND AREAS SHOULD NOT BE MOVED FROM MAY 15 TO SEPTEMBER 15. MOWING RECOMMENDATIONS OUTLINED IN THE PRE-CONSTRUCTION SECTION SHOULD BE USED IF MOWING HAS TO OCCUR DURING THIS TIME PERIOD.

IN ADDITION TO THESE MEASURES, THE CT DEEP RECOMMENDS THE FOLLOWING BE IMPLEMENTED INTO THE GENERAL SITE DESIGN FOR THE DEVELOPMENT TO INCREASE THE VALUE OF HABITAT FOR WILDLIFE AND STATE-LISTED SPECIES.

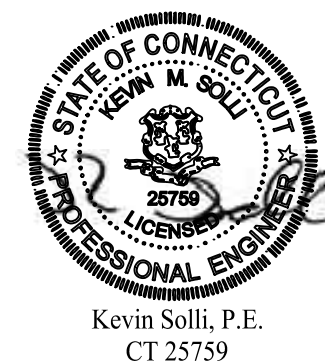
- A SITE MANAGEMENT PLAN TO PROMOTE NATIVE VEGETATION GROWTH IN THE AREA UNDER THE SOLAR PANELS SHOULD BE CREATED.
- USE WILDLIFE-FRIENDLY FENCING TO ALLOW WILDLIFE MOVEMENT TO AND FROM THE DEVELOPMENT.
- DEVELOP A MANAGEMENT PLAN FOR AREAS OF THE PROPERTY WHERE DEVELOPMENT IS NOT OCCURRING AND/OR FOR WHEN SOLAR PANELS ARE DECOMMISSIONED THAT WILL SUPPORT STATE LISTED SPECIES.

Rev. #: Date Description

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Drawn By: AWC
Checked By: EEL
Approved By: KMS
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Scale: NTS



Project:
PROPOSED SOLAR PHOTOVOLTAIC ARRAY
931 ROUTE 32
NORTH FRANKLIN, CONNECTICUT

Sheet Title:
CONSTRUCTION DETAILS

Sheet #:
3.01

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