



November 4, 2022

Melanie Bachman, Esq.
Executive Director & Staff Attorney
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

**Re: Petition No. 1516
Connecticut Green Banke Solar Project
Enfield & Willard Correctional Institutions
289 & 391 Shaker Road, Enfield, CT**

Dear Attorney Bachman,

As you are aware, on August 18, 2022 the Connecticut Siting Council ruled that the proposal for the construction, maintenance, and operation of a 1.17-megawatt AC solar photovoltaic electric generating facility located at the Enfield and Willard Correctional Institutions at 289 and 391 Shaker Road in Enfield, Connecticut would not have a substantial adverse environmental effect and would not require Certificate of Environmental Compatibility. This ruling was based on petition materials, including Site Plans prepared by J.R. Russo & Associates, LLC dated March 31, 2022, that called for the use of the Trinasolar's Duomax Twin Bifacial Dual Glass 252 Layout Module (470 Watt). Subsequent to the ruling, based on supply chain issues and availability, a new module has been selected as a substitute for the Trinasolar module. The substitute module is the CSI Solar BiHiKu6 CS6W Module (535 Watt). The specifications for this module are attached. In addition, the TCLP testing results for this module are attached. As shown, the TCLP test results indicate that no compounds were detected over the applicable limits for toxicity.

Based on differences in physical size and output, the switch to the CSI module required minor changes to the solar array layout in order to provide the same 1.17-megawatt AC output. Revised Site Plans reflecting these minor changes are also attached. As shown, the change to the more efficient CSI panel actually results in a decrease in the overall footprint of the proposed array from 4.39 acres to 4.03 acres. Thus, if anything, the environmental impacts are reduced as a result of the module substitution.

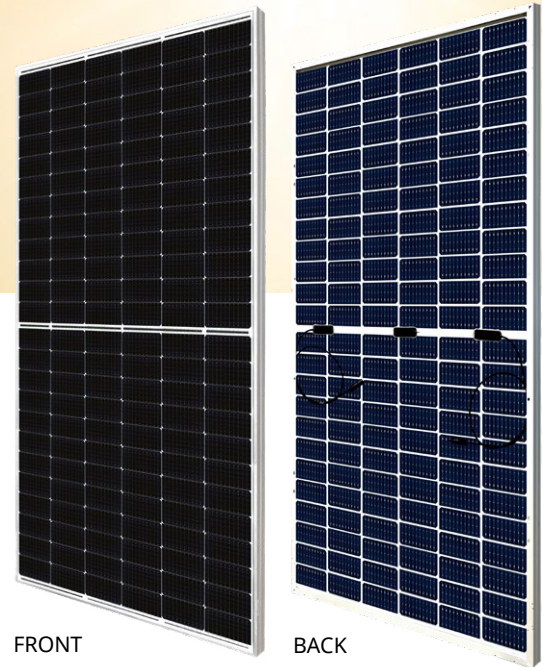
In accordance with condition 1 of the Siting Council Ruling, on behalf of the Connecticut Green Bank and CEFIA Holdings, LLC, I do hereby request approval of the module substitution as a minor modification. As stated above, the substitution results in a reduction of the area impacted by the solar development. If you have any questions or require further information, please feel free to contact me at (860) 623-0569 or tcoon@jrusso.com.

Sincerely,

Timothy A. Coon, P.E.
J.R. Russo & Associates, LLC

Enclosures

cc: Connecticut Green Bank
P.O. Box 938, East Windsor, CT 06088 www.jrusso.com CT 860.623.0569 MA 413.785.1158
SERVING CONNECTICUT & MASSACHUSETTS



BiHiKu6

520 W ~ 545 W

BIFACIAL MONO PERC

CS6W-520 | 525 | 530 | 535 | 540 | 545MB-AG

MORE POWER



Module power up to 545 W
Module efficiency up to 21.2 %



Up to 12.3 % lower LCOE
Up to 5.2 % lower system cost



Comprehensive LID / LeTID mitigation technology, up to 50% lower degradation



Compatible with mainstream trackers, cost effective product for utility power plant



Better shading tolerance

MORE RELIABLE



Minimizes micro-crack impacts



Heavy snow load up to 5400 Pa,
wind load up to 2400 Pa*



Enhanced Product Warranty on Materials and Workmanship*



Linear Power Performance Warranty*

1st year power degradation no more than 2%
Subsequent annual power degradation no more than 0.45%

*According to the applicable Canadian Solar Limited Warranty Statement.

MANAGEMENT SYSTEM CERTIFICATES*

ISO 9001:2015 / Quality management system
ISO 14001:2015 / Standards for environmental management system
ISO 45001: 2018 / International standards for occupational health & safety

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730 / CE / INMETRO / MCS / UKCA
CEC listed (US California)
UL 61730 / IEC 61701 / IEC 62716 / IEC 60068-2-68
Take-e-way



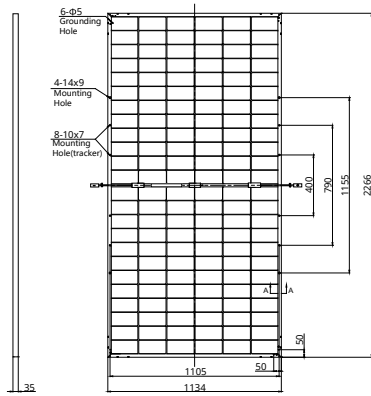
* The specific certificates applicable to different module types and markets will vary, and therefore not all of the certifications listed herein will simultaneously apply to the products you order or use. Please contact your local Canadian Solar sales representative to confirm the specific certificates available for your Product and applicable in the regions in which the products will be used.

CSI SOLAR (USA) CO., LTD. is committed to providing high quality solar photovoltaic modules, solar energy and battery storage solutions to customers. The company was recognized as the No. 1 module supplier for quality and performance/price ratio in the IHS Module Customer Insight Survey. Over the past 20 years, it has successfully delivered over 63 GW of premium-quality solar modules across the world.

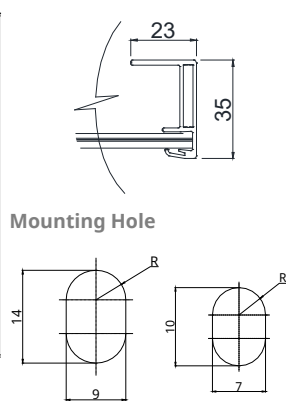
* For detailed information, please refer to Installation Manual.

ENGINEERING DRAWING (mm)

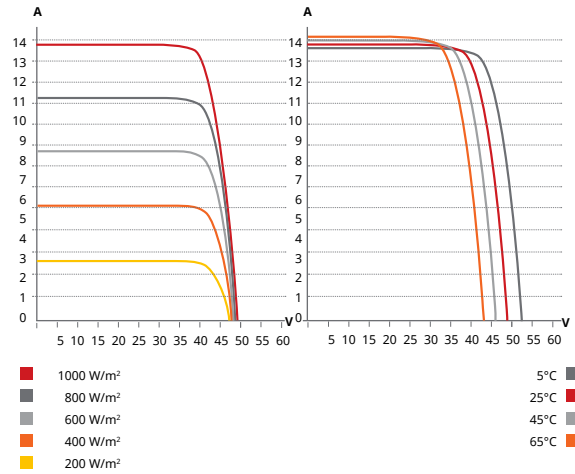
Rear View



Frame Cross Section A-A



CS6W-530MB-AG / I-V CURVES



ELECTRICAL DATA | STC*

	Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)	Module Efficiency
CS6W-520MB-AG	520 W	40.5 V	12.84 A	48.4 V	13.70 A	20.2%
Bifacial Gain**	5%	546 W	40.5 V	13.48 A	48.4 V	21.2%
	10%	572 W	40.5 V	14.12 A	48.4 V	22.3%
	20%	624 W	40.5 V	15.41 A	48.4 V	24.3%
CS6W-525MB-AG	525 W	40.7 V	12.90 A	48.6 V	13.75 A	20.4%
Bifacial Gain**	5%	551 W	40.7 V	13.55 A	48.6 V	21.4%
	10%	578 W	40.7 V	14.21 A	48.6 V	22.5%
	20%	630 W	40.7 V	15.48 A	48.6 V	24.5%
CS6W-530MB-AG	530 W	40.9 V	12.96 A	48.8 V	13.80 A	20.6%
Bifacial Gain**	5%	557 W	40.9 V	13.62 A	48.8 V	21.7%
	10%	583 W	40.9 V	14.26 A	48.8 V	22.7%
	20%	636 W	40.9 V	15.55 A	48.8 V	24.8%
CS6W-535MB-AG	535 W	41.1 V	13.02 A	49.0 V	13.85 A	20.8%
Bifacial Gain**	5%	562 W	41.1 V	13.68 A	49.0 V	21.9%
	10%	589 W	41.1 V	14.34 A	49.0 V	22.9%
	20%	642 W	41.1 V	15.62 A	49.0 V	25.0%
CS6W-540MB-AG	540 W	41.3 V	13.08 A	49.2 V	13.90 A	21.0%
Bifacial Gain**	5%	567 W	41.3 V	13.73 A	49.2 V	22.1%
	10%	594 W	41.3 V	14.39 A	49.2 V	23.1%
	20%	648 W	41.3 V	15.70 A	49.2 V	25.2%
CS6W-545MB-AG	545 W	41.5 V	13.14 A	49.4 V	13.95 A	21.2%
Bifacial Gain**	5%	572 W	41.5 V	13.80 A	49.4 V	22.3%
	10%	600 W	41.5 V	14.46 A	49.4 V	23.3%
	20%	654 W	41.5 V	15.77 A	49.4 V	25.5%

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

** Bifacial Gain: The additional gain from the back side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

ELECTRICAL DATA

Operating Temperature	-40°C ~ +85°C
Max. System Voltage	1500 V (IEC/UL) or 1000 V (IEC/UL)
Module Fire Performance	TYPE 29 (UL 61730) or CLASS C (IEC61730)
Max. Series Fuse Rating	30 A
Application Classification	Class A
Power Tolerance	0 ~ + 10 W
Power Bifaciality*	70 %

* Power Bifaciality = $\frac{P_{max_{rear}}}{P_{max_{front}}}$ both $P_{max_{rear}}$ and $P_{max_{front}}$ are tested under STC, Bifaciality Tolerance: ± 5 %

* The specifications and key features contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement. CSI Solar Co., Ltd. reserves the right to make necessary adjustment to the information described herein at any time without further notice.

Please be kindly advised that PV modules should be handled and installed by qualified people who have professional skills and please carefully read the safety and installation instructions before using our PV modules.

ELECTRICAL DATA | NMOT*

	Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)
CS6W-520MB-AG	390 W	38.0 V	10.27 A	45.7 V	11.05 A
CS6W-525MB-AG	394 W	38.2 V	10.32 A	45.9 V	11.09 A
CS6W-530MB-AG	397 W	38.3 V	10.38 A	46.1 V	11.13 A
CS6W-535MB-AG	401 W	38.5 V	10.42 A	46.3 V	11.17 A
CS6W-540MB-AG	405 W	38.7 V	10.47 A	46.5 V	11.21 A
CS6W-545MB-AG	409 W	38.9 V	10.52 A	46.7 V	11.25 A

* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m² spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

MECHANICAL DATA

Specification	Data
Cell Type	Mono-crystalline
Cell Arrangement	144 [2 x (12 x 6)]
Dimensions	2266 x 1134 x 35 mm (89.2 x 44.6 x 1.38 in)
Weight	32.2 kg (71.0 lbs)
Front Glass	2.0 mm heat strengthened glass with anti-reflective coating
Back Glass	2.0 mm heat strengthened glass
Frame	Anodized aluminium alloy
J-Box	IP68, 3 bypass diodes
Cable	4.0 mm ² (IEC), 12 AWG (UL)
Cable Length (Including Connector)	410 mm (16.1 in) (+) / 290 mm (11.4 in) (-) (supply additional jumper cable: 2 lines / Pallet) or customized length*

Connector	T4 or MC4 series
Per Pallet	30 pieces
Per Container (40' HQ)	600 pieces or 540 pieces (only for US)

* For detailed information, please contact your local Canadian Solar sales and technical representatives.

TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.34 % / °C
Temperature Coefficient (Voc)	-0.26 % / °C
Temperature Coefficient (Isc)	0.05 % / °C
Nominal Module Operating Temperature	41 ± 3°C

PARTNER SECTION



Test Report

REPORT No.: SHE20-15388/1 DATE RECEIVED: 2020/12/30
 ATTENTION: - ANALYSIS DATE : 2020/12/30~2021/01/25
 CUSTOMER: CSI Solar Co.,Ltd DATE REPORTED: 2021/01/27
 199 Lushan Road,Suzhou New SAMPLE (S): Solid waste (1)
 District Jiangsu,China
 REFERENCE: -

REMARKS

- 1.The results apply to the sample(s) as received
- 2.The report is translated from SHE20-15388.

Edited by:
 Min ZHOU

Reviewed by:
 Jun MENG

Approved by:
 Liqiong TANG



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Statement

1. The test report is invalid without the official seal of the laboratory.
2. This test report cannot be reproduced in any way, except in full content, without prior approval in writing by the laboratory.
3. The test report is invalid without the signature of the compiler, the checker and the approver
4. The test report is invalid if altered.
5. The test report has been drafted in Chinese and translated into English (if applicable) for convenience only. In the event of discrepancy, the Chinese version shall prevail.
6. Should you have any queries or objection to the test report, please contact us within 10 days after receiving the report.

Legend

NA The sample was not analysed for this analyte

↑ Detection limit raised

↓ Detection limit lowered

ND Not Detected



INORGANIC & ORGANIC ANALYSIS

Report No.: SHE20-15388/1

Customer Reference: -

Lab ID	SHE20-15388.001
Customer ID	PV Module CS6W-MB-AG
Model No.	1200999990042
Order No.	CP20-068432GZ
Date Received	2020/12/30

TCLP ITEM	METHOD	MDL	UNIT	Limit	Solid waste
Arsenic (As)	USEPA 200.8-1994	0.050	mg/L	≤5	<0.050
Barium (Ba)	USEPA 200.8-1994	0.010	mg/L	≤100	0.058
Cadmium (Cd)	USEPA 200.8-1994	0.001	mg/L	≤1	<0.001
Chromium (Cr)	USEPA 200.8-1994	0.010	mg/L	≤5	<0.010
Lead (Pb)	USEPA 200.8-1994	0.010	mg/L	≤5	3.34
Selenium (Se)	USEPA 200.8-1994	0.050	mg/L	≤1	<0.050
Silver (Ag)	USEPA 200.8-1994	0.010	mg/L	≤5	<0.010
Mercury (Hg)	USEPA 7473-2007	0.005	mg/L	≤0.2	<0.005
2,4-D	USEPA 8151A-1996	0.0005	mg/L	≤10	<0.0005
2,4,5-TP (Silvex, Fenopop)	USEPA 8151A-1996	0.0005	mg/L	≤1	<0.0005
Benzene	USEPA 8260D-2018	0.0005	mg/L	≤0.5	<0.0005
Carbon tetrachloride	USEPA 8260D-2018	0.0005	mg/L	≤0.5	<0.0005
Chlorobenzene	USEPA 8260D-2018	0.0005	mg/L	≤100	<0.0005
Chloroform	USEPA 8260D-2018	0.0005	mg/L	≤6	<0.0005
1,4-Dichlorobenzene	USEPA 8260D-2018	0.0005	mg/L	≤7.5	<0.0005
1,2-Dichloroethane	USEPA 8260D-2018	0.0005	mg/L	≤0.5	<0.0005
1,1-Dichloroethene	USEPA 8260D-2018	0.0005	mg/L	≤0.7	<0.0005
2-butanone(MEK)	USEPA 8260D-2018	0.020	mg/L	≤200	<0.020
Tetrachloroethene	USEPA 8260D-2018	0.0005	mg/L	≤0.7	<0.0005
Trichloroethene	USEPA 8260D-2018	0.0005	mg/L	≤0.5	<0.0005
Vinyl chloride	USEPA 8260D-2018	0.0005	mg/L	≤0.2	<0.0005
2,4-Dinitrotoluene	USEPA 8270E-2018	0.0005	mg/L	≤0.13	<0.0005
Hexachlorobenzene	USEPA 8270E-2018	0.0005	mg/L	≤0.13	<0.0005
Hexachlorobutadiene	USEPA 8270E-2018	0.0005	mg/L	≤0.5	<0.0005



INORGANIC & ORGANIC ANALYSIS

Report No.: SHE20-15388/1

Customer Reference: -

Lab ID	SHE20-15388.001
Customer ID	PV Module CS6W-MB-AG
Model No.	1200999990042
Order No.	CP20-068432GZ
Date Received	2020/12/30

TCLP ITEM	METHOD	MDL	UNIT	Limit	Solid waste
Hexachloroethane	USEPA 8270E-2018	0.0005	mg/L	≤3	<0.0005
Nitrobenzene	USEPA 8270E-2018	0.0005	mg/L	≤2	<0.0005
Pentachlorophenol	USEPA 8270E-2018	0.0025	mg/L	≤100	<0.0025
Pyridine	USEPA 8270E-2018	0.002	mg/L	≤5.0	<0.002
2,4,5-Trichlorophenol	USEPA 8270E-2018	0.0005	mg/L	≤400	<0.0005
2,4,6-Trichlorophenol	USEPA 8270E-2018	0.0005	mg/L	≤2	<0.0005
Methylphenol	USEPA 8270E-2018	0.001	mg/L	≤200	<0.001
2-Methylphenol	USEPA 8270E-2018	0.0005	mg/L	≤200	<0.0005
3&4-Methylphenol	USEPA 8270E-2018	0.0005	mg/L	≤200	<0.0005
Endrin	USEPA 8270E-2018	0.0005	mg/L	≤0.02	<0.0005
γ-BHC	USEPA 8270E-2018	0.0005	mg/L	≤0.4	<0.0005
Toxaphene	USEPA 8270E-2018	0.050	mg/L	≤0.5	<0.050
Methoxychlor	USEPA 8270E-2018	0.0005	mg/L	≤10	<0.0005
Heptachlor	USEPA 8270E-2018	0.0005	mg/L	≤0.008	<0.0005
Chlordane(Total)	USEPA 8270E-2018	0.001	mg/L	≤0.03	<0.001

Remark:

- 1.Preparative method:USEPA1311-1992(Toxicity Characteristic Leaching Procedure)
- 2.The Limits comes from CFR(code of federal regulations) title 40 part 261.24.



Method List

USEPA 200.8-1994 Metals ICP-MS
 USEPA 7473-2007 Metals-Hg
 USEPA 8151A-1996 Acid Herbicides in Water by GC-MS
 USEPA 8260D-2018 VOCs
 USEPA 8270E-2018 SVOCs

Equipment Information

Method:USEPA 200.8-1994

Equipment Name	Model	Equipment Number	Serial Number
ICP-MS	Agilent 7900	CHEM-998	JP16311502

Method:USEPA 7473-2007

Equipment Name	Model	Equipment Number	Serial Number
Hg analyzer	Milestone DMA-80	CHEM-958	16041979

Method:USEPA 8151A-1996

Equipment Name	Model	Equipment Number	Serial Number
GC-MS	Agilent 7890A/5975C	CHEM-ENV085	CN12371032/US12362A17

Method:USEPA 8260D-2018

Equipment Name	Model	Equipment Number	Serial Number
PT-GC-MS	Atomx&Agilent7890B/5977B	CHEM-1035	US17062008/CN17103162/US1711M006

Method:USEPA 8270E-2018

Equipment Name	Model	Equipment Number	Serial Number
GC-MS	Agilent 7890B/5977A	CHEM-1118	CN18053182/US1805M023

Method:USEPA 8270E-2018

Equipment Name	Model	Equipment Number	Serial Number
GC-MS	Agilent 7890B/5977A	CHEM-1118	CN18053182/US1805M023



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APPENDIX 1

Report No.:SHE20-15388/1

Customer Reference: -



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APPENDIX 2

Report No.:SHE20-15388/1

Customer Reference: -



End of report

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SGS-CTI (China) Technical Services (Shanghai) Co., Ltd.
Testing Center-Environmental Technology

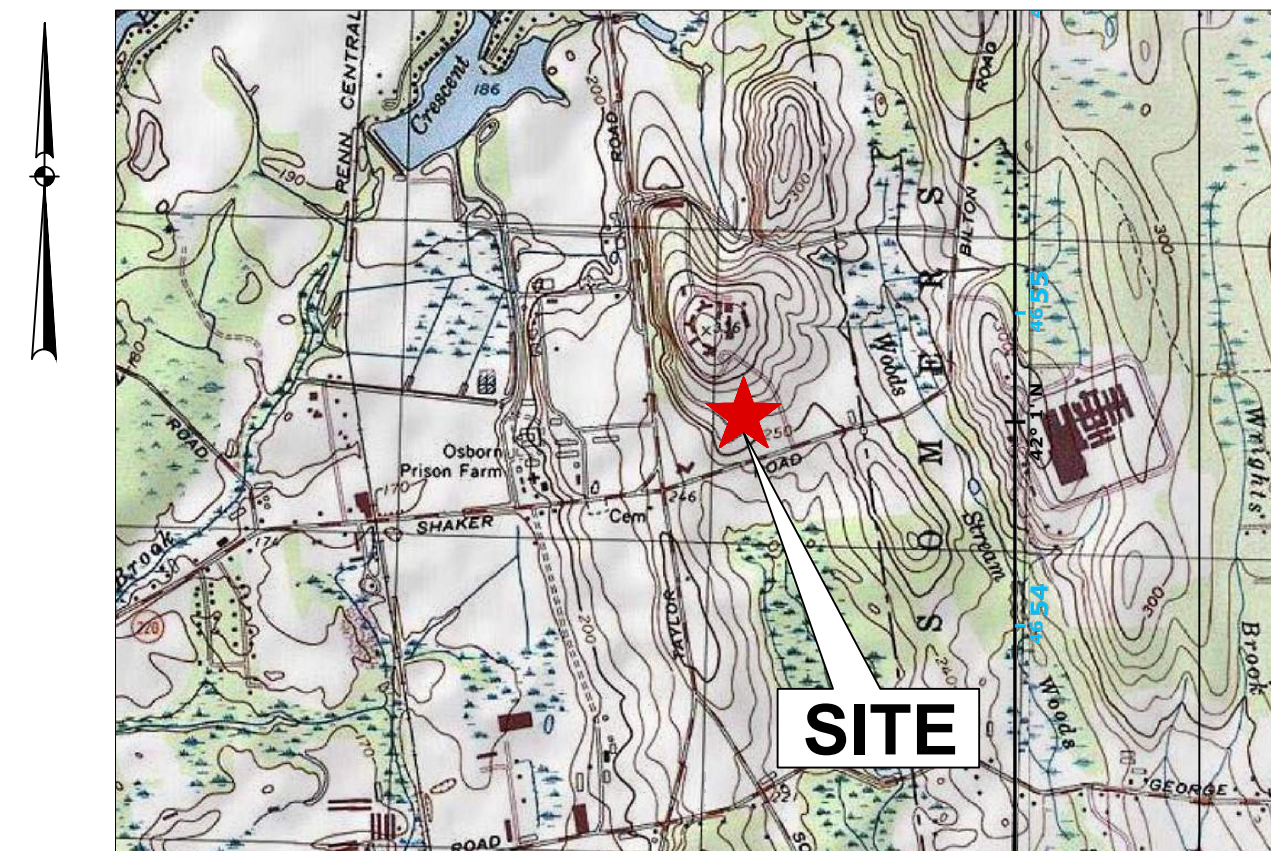
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t (86-21) 61072828 f (86-21) 61152164

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sgs.china@sgs.com

CT Green Bank Department of Corrections Solar

Enfield, Robinson A, Robinson B & Willard Facilities
289 & 391 Shaker Road
Enfield, Connecticut



VICINITY MAP
1"=2,000'
LATITUDE: 42.016768°
LONGITUDE: -72.510134°

Applicant
CT Green Bank
75 Charter Oak Ave., Suite 1-103
Hartford, CT 06106

Owner
State of Connecticut
Osborn State Prison Farm
531 Taylor Road
Enfield, CT 06082

Prepared By

SUNPOWER®

1414 HARBOUR WAY SOUTH
RICHMOND, CA 94804 USA
(510) 540-0550



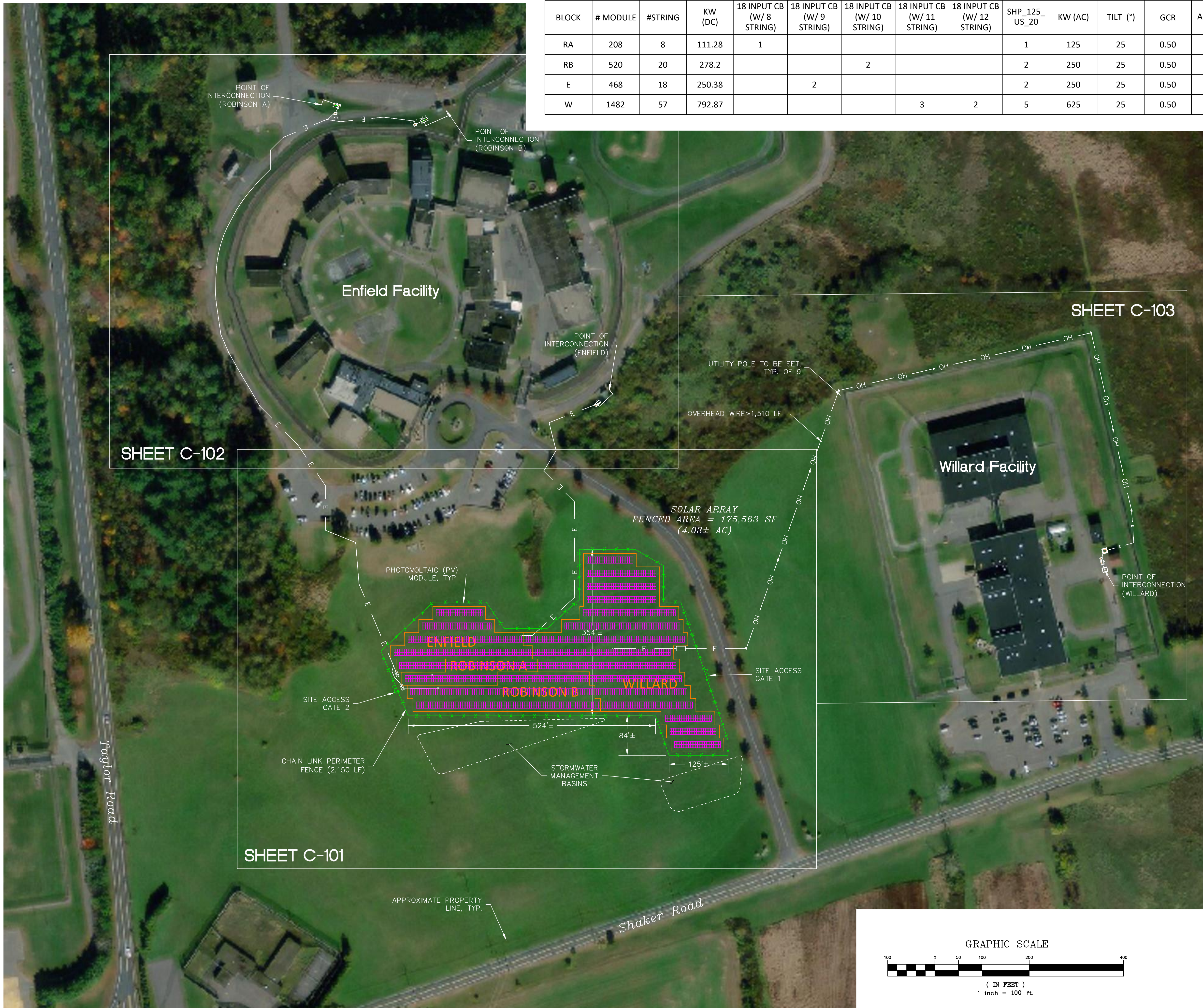
J.R. Russo & Associates, LLC
1 Shoham Rd East Windsor CT 06088 • CT 860.623.0569 • MA 413.785.1958
www.jrusso.com • info@russo.com



PERMIT PLANS

DRAWING INDEX

SHEET TITLE	SHEET NO.	LATEST REVISION
CIVIL		
COVER SHEET	C-000	10-06-22
OVERALL SITE PLAN	C-100	10-06-22
SITE PLAN (40-SCALE)	C-101	10-06-22
SITE PLAN (40-SCALE)	C-102	10-06-22
SITE PLAN (40-SCALE)	C-103	10-06-22
EROSION & SEDIMENT CONTROL NOTES	C-201	03-31-22
DETAILS	C-202	03-31-22



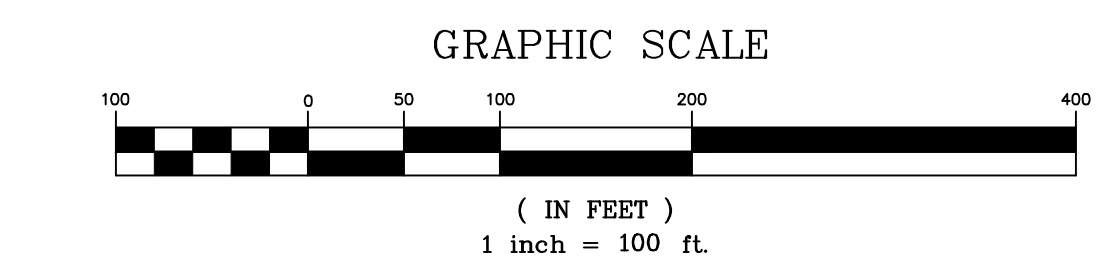
BLOCK	# MODULE	#STRING	KW (DC)	18 INPUT CB (W/ 8 STRING)	18 INPUT CB (W/ 9 STRING)	18 INPUT CB (W/ 10 STRING)	18 INPUT CB (W/ 11 STRING)	18 INPUT CB (W/ 12 STRING)	SHP_125_US_20	KW (AC)	TILT (°)	GCR	CSI AZIMUTH (°)	SPWR AZIMUTH (°)	AC RUN (INV-SPB)	DC RUN (COMB-INV)
RA	208	8	111.28	1					1	125	25	0.50	180	0	30	
RB	520	20	278.2			2			2	250	25	0.50	180	0	60, 40	
E	468	18	250.38		2				2	250	25	0.50	180	0	50, 50	
W	1482	57	792.87				3	2	5	625	25	0.50	180	0		140, 90, 35, 65, 185

NO.	DATE	DESCRIPTION

REVISIONS	
BY: LF/TAC	CHK: JEU

Connecticut Green Bank
Enfield, Robinson A, Robinson B & Willard
289 & 391 Shaker Road
Enfield, Connecticut

Overall Plan
DATE 3-31-22
SCALE 1"=100'
JOB NUMBER 2021-040
SHEET C-100



S:\Acad\2021 Civil 3D\2021-040 APG CT Green Bank\Russo Drawings\2021-040 Enfield Site.dwg

MATCHLINE (SEE SHEET C-102)



J.R. Russo & Associates, LLC
SURVEYORS & ENGINEERS
SERVING CT & MA
1176 Main Rd East Windsor CT 06026 • CT 860.652.0599 • MA 483.780.1858
www.russosurveyors.com • info@russosurveyors.com



SUNPOWER
1414 HARBOUR WAY SOUTH
RICHMOND, CA 94804 USA
(510) 540-0550

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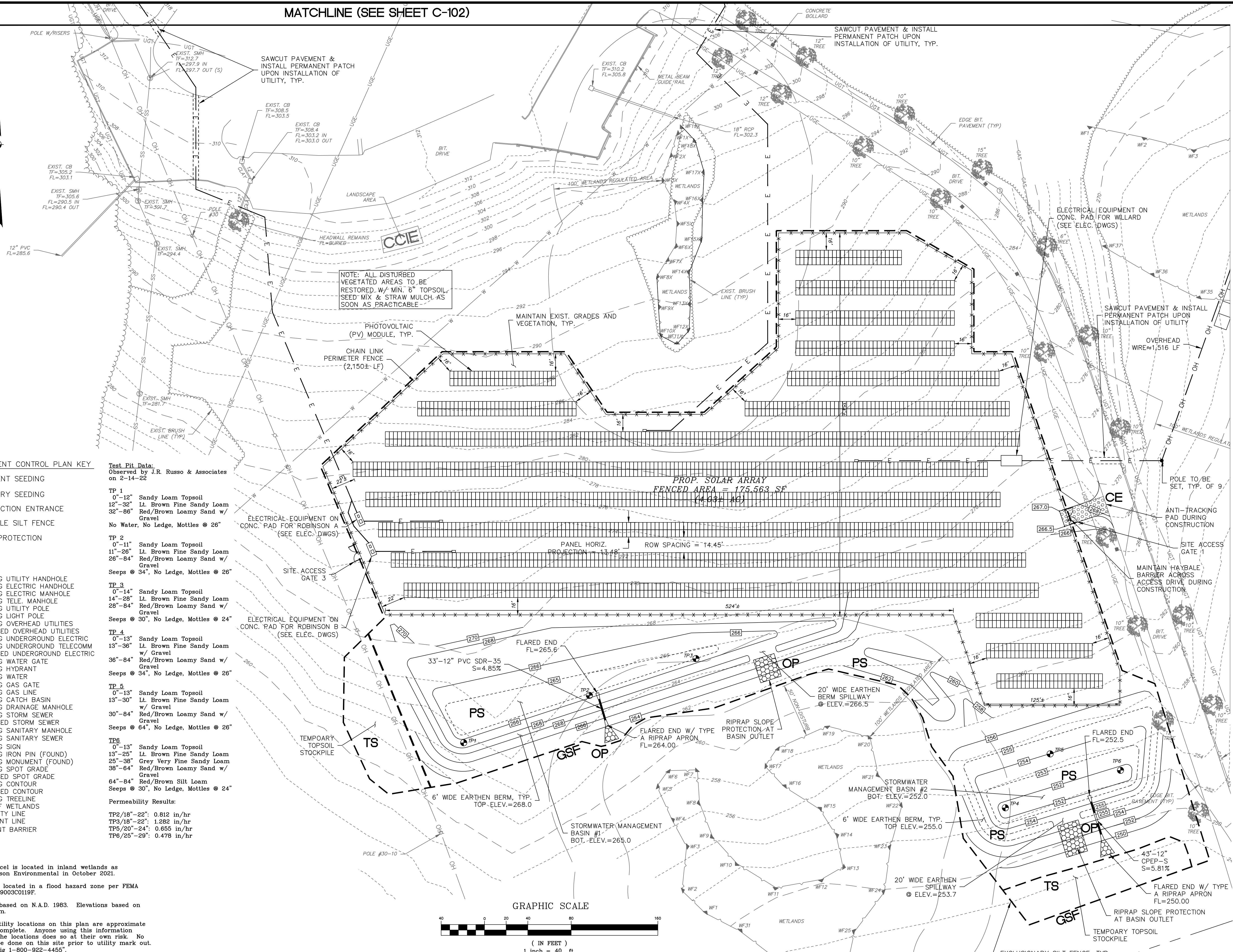
NO.	REVISIONS	BY:	CHK:	DATE
1	AS SHOWN	LF/TAC	JEU	10-06-22

NO.	REVISIONS	BY:	CHK:	DATE
1	AS SHOWN	LF/TAC	JEU	10-06-22

Connecticut Green Bank
Enfield, Robinson A, Robinson B & Willard
289 & 391 Shaker Road
Enfield, Connecticut

Site Plan
DATE
3-31-22
SCALE
1"=40'
JOB NUMBER
2021-040
SHEET
C-101

MATCHLINE (SEE SHEET C-103)



SAWCUT PAVEMENT & INSTALL PERMANENT PATCH UPON INSTALLATION OF UTILITY, TYP.

SAWCUT PAVEMENT & INSTALL PERMANENT PATCH UPON INSTALLATION OF UTILITY, TYP.

SAWCUT PAVEMENT & INSTALL PERMANENT PATCH UPON INSTALLATION OF UTILITY

SAWCUT PAVEMENT & INSTALL PERMANENT PATCH UPON INSTALLATION OF UTILITY

NOTE: ALL DISTURBED VEGETATED AREAS TO BE RESTORED W/ MIN. 6" TOPSOIL, SEED MIX & STRAW MULCH AS SOON AS PRACTICABLE.

EROSION & SEDIMENT CONTROL PLAN KEY

- PS PERMANENT SEEDING
- TS TEMPORARY SEEDING
- CE CONSTRUCTION ENTRANCE
- GSF GEOTEXTILE SILT FENCE
- OP OUTLET PROTECTION

LEGEND

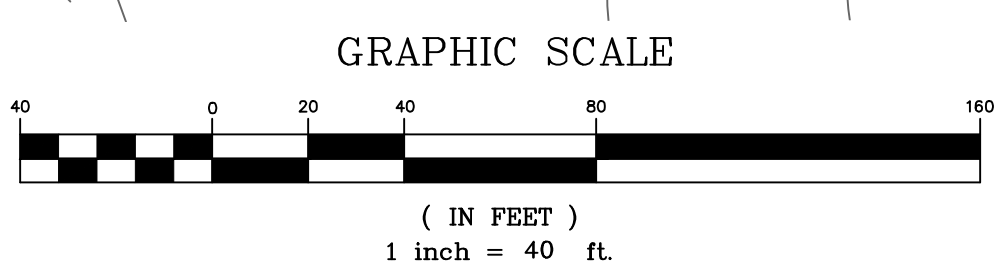
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- EXISTING ELECTRIC HANDHOLE
- EXISTING ELECTRIC MANHOLE
- EXISTING TELE. MANHOLE
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING OVERHEAD UTILITIES
- PROPOSED OVERHEAD UTILITIES
- EXISTING UNDERGROUND UTILITIES
- EXISTING UNDERGROUND TELECOMM
- PROPOSED UNDERGROUND ELECTRIC
- EXISTING WATER GATE
- EXISTING HYDRANT
- EXISTING WATER
- EXISTING GAS GATE
- EXISTING GAS LINE
- EXISTING CATCH BASIN
- EXISTING DRAINAGE MANHOLE
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY SEWER
- EXISTING SIGN
- EXISTING IRON PIN (FOUND)
- EXISTING MONUMENT (FOUND)
- EXISTING SPOT GRADE
- PROPOSED SPOT GRADE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING TRELLINE
- LIMIT OF WETLANDS
- PROPERTY LINE
- EASEMENT LINE
- SEDIMENT BARRIER

Test Pit Data:
Observed by J.R. Russo & Associates on 2-14-22

- TP 1 0'-12" Sandy Loam Topsoil
- 12"-32" Lt. Brown Fine Sandy Loam
- 32"-86" Red/Brown Loamy Sand w/ Gravel
- No Water, No Ledge, Mottles @ 26"
- TP 2 0'-11" Sandy Loam Topsoil
- 11"-26" Lt. Brown Fine Sandy Loam
- 26"-84" Red/Brown Loamy Sand w/ Gravel
- Seeps @ 34", No Ledge, Mottles @ 26"
- TP 3 0'-14" Sandy Loam Topsoil
- 14"-28" Lt. Brown Fine Sandy Loam
- 28"-84" Red/Brown Loamy Sand w/ Gravel
- Seeps @ 30", No Ledge, Mottles @ 24"
- TP 4 0'-13" Sandy Loam Topsoil
- 13"-36" Lt. Brown Fine Sandy Loam w/ Gravel
- 36"-84" Red/Brown Loamy Sand w/ Gravel
- Seeps @ 34", No Ledge, Mottles @ 26"
- TP 5 0'-13" Sandy Loam Topsoil
- 13"-30" Lt. Brown Fine Sandy Loam w/ Gravel
- 30"-84" Red/Brown Loamy Sand w/ Gravel
- Seeps @ 84", No Ledge, Mottles @ 26"
- TP 6 0'-13" Sandy Loam Topsoil
- 13"-25" Lt. Brown Fine Sandy Loam
- 25"-38" Grey Very Fine Sandy Loam
- 38"-84" Red/Brown Loamy Sand w/ Gravel
- Seeps @ 30", No Ledge, Mottles @ 24"

Permeability Results:
TP2/18"-22": 0.812 in/hr
TP3/18"-22": 1.282 in/hr
TP5/20"-24": 0.655 in/hr
TP6/25"-29": 0.478 in/hr

- Notes:
- Portion of the parcel is located in inland wetlands as delineated by Davison Environmental in October 2021.
 - Project site is not located in a flood hazard zone per FEMA Flood panel nos. 09003C0119F.
 - Horizontal datum based on N.A.D. 1983. Elevations based on N.A.V.D. 1985 Datum.
 - All underground utility locations on this plan are approximate and may not be complete. Anyone using this information without verifying the locations does so at their own risk. No construction will be done on this site prior to utility mark out. "Call Before You Dig 1-800-922-4455".



S:\Acad\2021 Civil 3D\2021-040 APG CT Green Bank\Drawings\2021-040 Enfield Site.dwg

10-06-22	SOLAR PANEL CHANGE, ADJUST LAYOUT
REVISIONS	
BY: LF/TAC	CHK: JEU

Connecticut Green Bank
Enfield, Robinson A, Robinson B & Willard
289 & 391 Shaker Road
Enfield, Connecticut

DATE	3-31-22
SCALE	1"=40'
JOB NUMBER	2021-040
SHEET	C-102

Site Plan

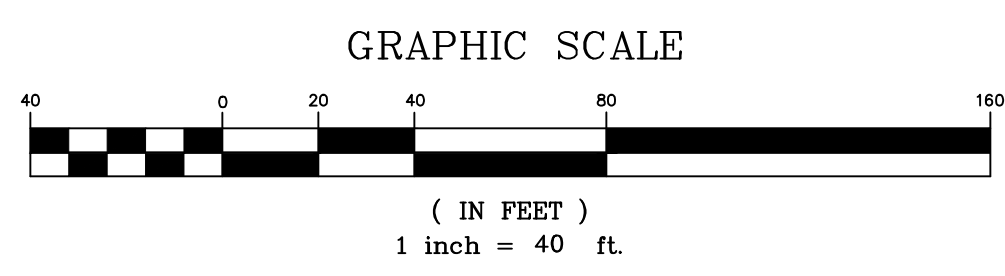


LEGEND

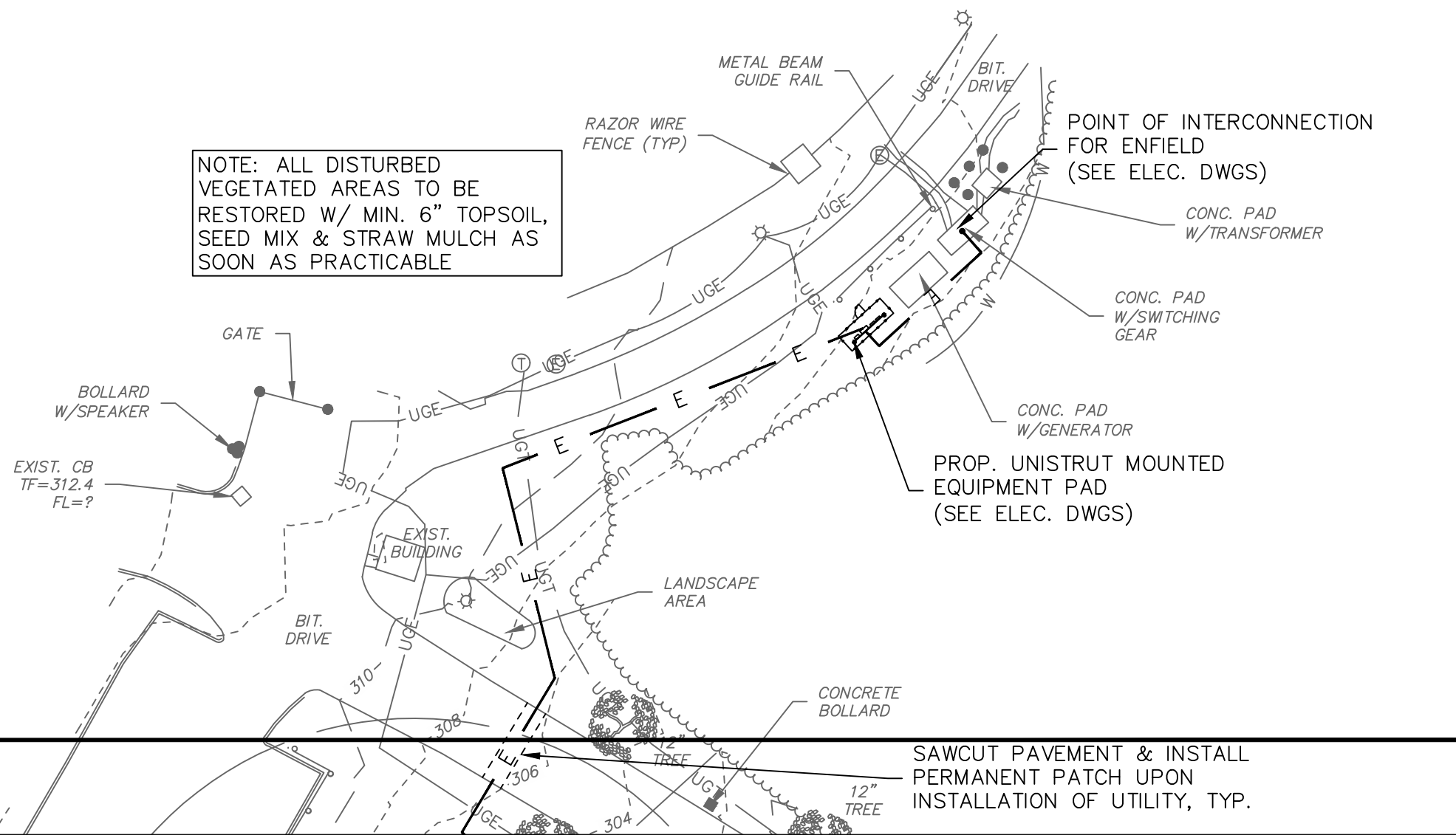
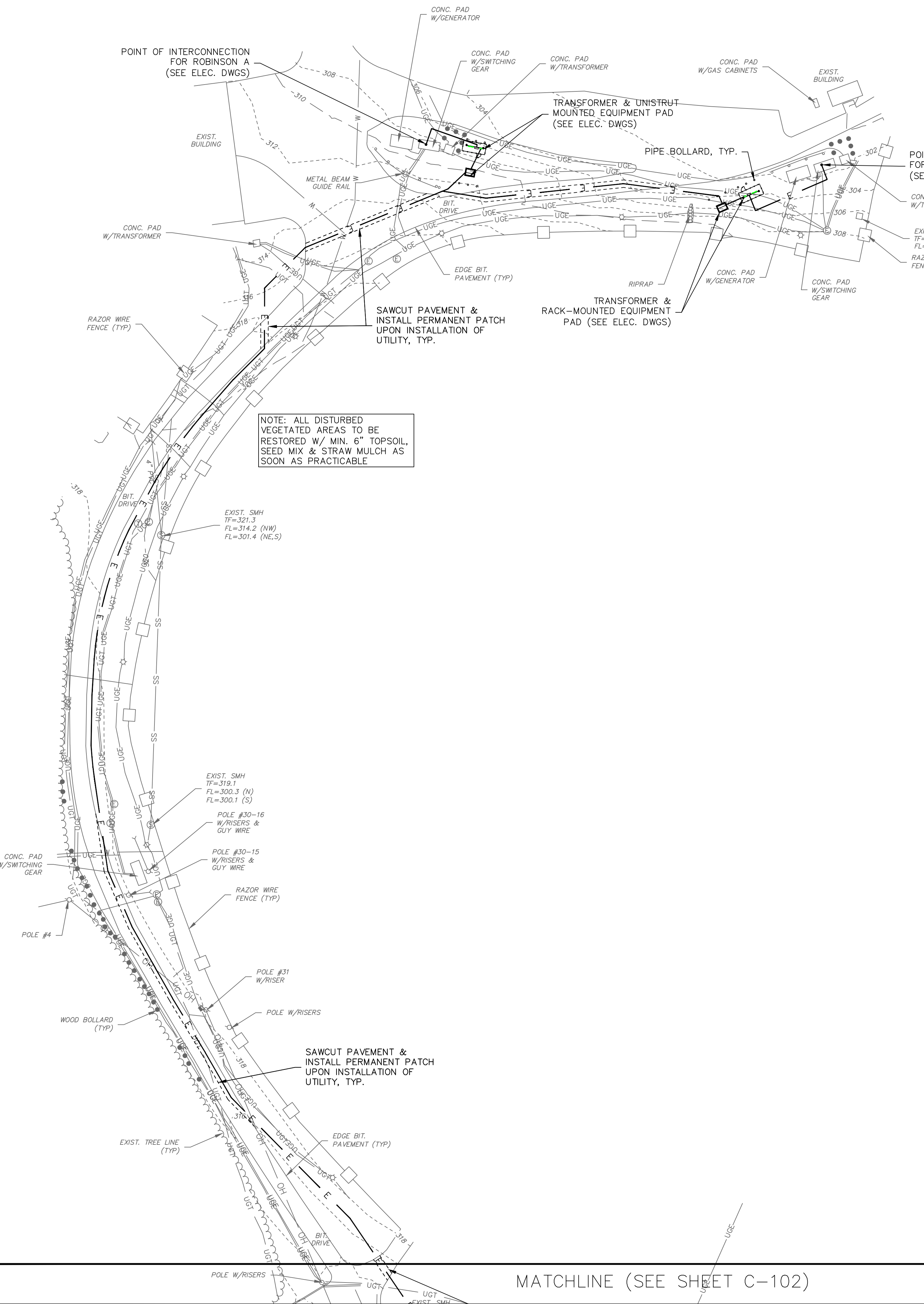
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○	EXISTING ELECTRIC HANDHOLE
⊙	EXISTING ELECTRIC MANHOLE
⊕	EXISTING TELECOMMUNICATIONS MANHOLE
⊙	EXISTING UTILITY POLE
⊙	EXISTING OVERHEAD UTILITIES
OH	PROPOSED OVERHEAD UTILITIES
UG	EXISTING UNDERGROUND ELECTRIC
UGT	EXISTING UNDERGROUND TELECOMM
E	PROPOSED UNDERGROUND ELECTRIC
⊙	EXISTING WATER GATE
⊙	EXISTING HYDRANT
⊙	EXISTING WATER
⊙	EXISTING GAS GATE
⊙	EXISTING GAS LINE
⊙	EXISTING CATCH BASIN
⊙	EXISTING DRAINAGE MANHOLE
⊙	EXISTING STORM SEWER
⊙	PROPOSED STORM SEWER
⊙	EXISTING SANITARY MANHOLE
⊙	EXISTING SANITARY SEWER
⊙	EXISTING SIGN
⊙	EXISTING IRON PIN (FOUND)
⊙	EXISTING MONUMENT (FOUND)
135.5	EXISTING SPOT GRADE
136	PROPOSED SPOT GRADE
---	EXISTING CONTOUR
---	PROPOSED CONTOUR
---	EXISTING TREELINE
---	LIMIT OF WETLANDS
---	PROPERTY LINE
---	EASEMENT LINE
---	SEDIMENT BARRIER

EROSION & SEDIMENT CONTROL PLAN KEY

PS	PERMANENT SEEDING
TS	TEMPORARY SEEDING
CE	CONSTRUCTION ENTRANCE
GSF	GEOTEXTILE SILT FENCE
OP	OUTLET PROTECTION



- Notes:**
- Portion of the parcel is located in inland wetlands as delineated by Davison Environmental in October 2021.
 - Project site is not located in a flood hazard zone per FEMA Flood panel nos. 09003C0119F.
 - Horizontal datum based on N.A.D. 1983. Elevations based on N.A.V.D. 1988 Datum.
 - All underground utility locations on this plan are approximate and may not be complete. Anyone using this information without verifying the locations does so at their own risk. No construction will be done on this site prior to utility mark out. "Call Before You Dig 1-800-922-4455".



NOTE: ALL DISTURBED VEGETATED AREAS TO BE RESTORED W/ MIN. 6" TOPSOIL, SEED MIX & STRAW MULCH AS SOON AS PRACTICABLE

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SAWCUT PAVEMENT & INSTALL PERMANENT PATCH UPON INSTALLATION OF UTILITY, TYP.

SAWCUT PAVEMENT & INSTALL PERMANENT PATCH UPON INSTALLATION OF UTILITY, TYP.

MATCHLINE (SEE SHEET C-102)

PERMANENT SEEDING (PS)

MULCH FOR SEED (MS)

TEMPORARY SEEDING (TS)

SPECIFICATIONS

Time Of Year
Seeding dates in Connecticut are normally April 1 through June 15 and August 15 through October 1.

Site Preparation
Grade in accordance with the Land Grading measure which is in the Connecticut Guidelines For Soil Erosion and Sediment Control latest edition.

Install all necessary surface water controls.

For areas to be mowed remove all surface stones 2 inches or larger. Remove all other debris such as wire, cable tree roots, pieces of concrete, clods, lumps, or other unsuitable material.

Seed Selection
Lawn Areas: Premium Seed Mix for Sun and Shade. Field Areas: Companion Seed Mix by Kings Agriseed Inc. or approved equal.

Seedbed Preparation
Apply topsoil, if necessary, in accordance with the Topsoiling measure which is in the Connecticut Guidelines For Soil Erosion and Sediment Control latest edition.

Apply ground limestone and fertilizer according to soil test recommendations (such as those offered by the University of Connecticut Soil Testing Laboratory or other reliable source).

Where soil testing is not feasible on small or variable sites, or where timing is critical, fertilizer may be applied at the rate of 300 pounds per acre or 7.5 pounds per 1,000 square feet of 10-10-10 or equivalent and limestone at 4 tons per acre or 200 pounds per 1,000 square feet.

Work lime and fertilizer into the soil to a depth of 3 to 4 inches with a disc or other suitable equipment.

Inspect seedbed just before seeding. If the soil is compacted, crusted or hardened, scarify the area prior to seeding.

Seed Application
Apply selected seed at rates per manufacturer's recommendations uniformly by hand, cyclone seeder, drill, cultipacker type seeder or hydroseeder (slurry including seed, fertilizer). Normal seeding depth is from 0.25 to 0.5 inch.

Mulching
See guidelines in the Mulch For Seed measures.

MAINTENANCE
Inspect temporary soil protection area at least once a week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inch or greater during the first growing season.

Where seed has been moved or where soil erosion has occurred, determine the cause of the failure and repair as needed.

TEMPORARY SEEDING (TS)

SPECIFICATIONS

Site Preparation
Install needed erosion control measures such as diversions, grade stabilization structures, sedimentation basins and grassed waterways in accordance with the approved plan.

Grade according to plans and allow for the use of appropriate equipment for seedbed preparation, seeding, mulch application and mulch anchoring.

Seedbed Preparation
Loosen the soil to a depth of 3-4 inches with a slightly roughened surface. If the area has been recently loosened or disturbed, no further roughening is required.

Apply ground limestone and fertilizer according to soil test recommendations (such as those offered by the University of Connecticut Soil Testing Laboratory or other reliable source).

If soil testing is not feasible on small or variable sites, or where timing is critical, fertilizer may be applied at the rate of 300 pounds per acre or 7.5 pounds per 1,000 square feet of 10-10-10 or equivalent.

Seeding
Apply seed uniformly by hand, cyclone seeder, drill, cultipacker type seeder or hydroseeder. The temporary seed shall be Rye (grain) applied at a rate of 120 pounds per acre. Increase seeding rates by 10% when hydroseeding.

Mulching
See guidelines in the Mulch For Seed measures.

MAINTENANCE
Inspect temporary seeding area at least once a week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inch or greater for seed and mulch movement and rill erosion.

Where seed has been moved or where soil erosion has occurred, determine the cause of the failure and repair as needed.

SPECIFICATIONS

Materials
Types of Mulches within this specification include, but are not limited to:

1. Hay: The dried stems and leafy parts of plants cut and harvested, such as alfalfa, clovers, other forage legumes and the finer stemmed, leafy grasses.

2. Straw: Cut and dried stems of herbaceous plants, such as wheat, barley, cereal rye, or broom.

3. Cellulose Fiber: Fiber origin is either virgin wood, post-industrial/pre-consumer wood or post consumer wood complying with materials specification (collectively referred to as "wood fiber"), newspaper, kraft paper, cardboard (collectively referred to as "paper fiber") or a combination of wood and paper fiber.

Tackifiers within this specification include, but are not limited to: Water soluble materials that cause mulch particles to adhere to one another, generally consisting of either a natural vegetable gum blended with gelling and hardening agents or a blend of hydrophilic polymers, resins, viscosifiers, sticking aids and gums.

Nettings within this specification include, but are not limited to: Prefabricated openwork fabrics made of cellulose cords, ropes, threads, or biodegradable synthetic material that is woven, knotted or molded in such a manner that it holds mulch in place until vegetation growth is sufficient to stabilize the soil.

Site Preparation
Grade according to plans and allow for the use of appropriate equipment for seedbed preparation, seeding, mulch application and mulch anchoring.

Application
Timing: Applied immediately following seeding. Some cellulose fiber may be applied with seed to assist in marking where seed has been sprayed, but expect to apply a second application of cellulose fiber to meet the requirements of Mulch For Seed in the Connecticut Guidelines For Soil Erosion and Sediment Control latest edition.

Spreading: Mulch material shall be spread uniformly by hand or machine resulting in 90%-95% coverage of the disturbed soil when seeding within the recommended seeding dates.

When seeding outside the recommended seeding dates, increase mulch application rate to provide between 95%-100% coverage of the disturbed soil.

When spreading hay mulch by hand, divide the area to be mulched into approximately 1,000 square feet and place 1.5-2 bales of hay in each section to facilitate uniform distribution.

For cellulose fiber mulch, expect several spray passes to attain adequate coverage, to eliminate shadowing, and to avoid slippage.

Anchoring: Expect the need for mulch anchoring along the shoulders of actively traveled roads, hill tops and long open slopes not protected by wind breaks.

When using netting, the most critical aspect is to ensure that the netting maintains substantial contact with the underlying mulch and the mulch, in turn, maintains continuous contact with the soil surface.

MAINTENANCE
Inspect mulch for seed area at least once a week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inch or greater until the grass has germinated to determine maintenance needs.

Where mulch has been moved or where soil erosion has occurred, determine the cause of the failure and repair as needed.

SPECIFICATIONS

Site Preparation
Install needed erosion control measures such as diversions, grade stabilization structures, sedimentation basins and grassed waterways in accordance with the approved plan.

Grade according to plans and allow for the use of appropriate equipment for seedbed preparation, seeding, mulch application and mulch anchoring.

Seedbed Preparation
Loosen the soil to a depth of 3-4 inches with a slightly roughened surface. If the area has been recently loosened or disturbed, no further roughening is required.

Apply ground limestone and fertilizer according to soil test recommendations (such as those offered by the University of Connecticut Soil Testing Laboratory or other reliable source).

If soil testing is not feasible on small or variable sites, or where timing is critical, fertilizer may be applied at the rate of 300 pounds per acre or 7.5 pounds per 1,000 square feet of 10-10-10 or equivalent.

Seeding
Apply seed uniformly by hand, cyclone seeder, drill, cultipacker type seeder or hydroseeder. The temporary seed shall be Rye (grain) applied at a rate of 120 pounds per acre. Increase seeding rates by 10% when hydroseeding.

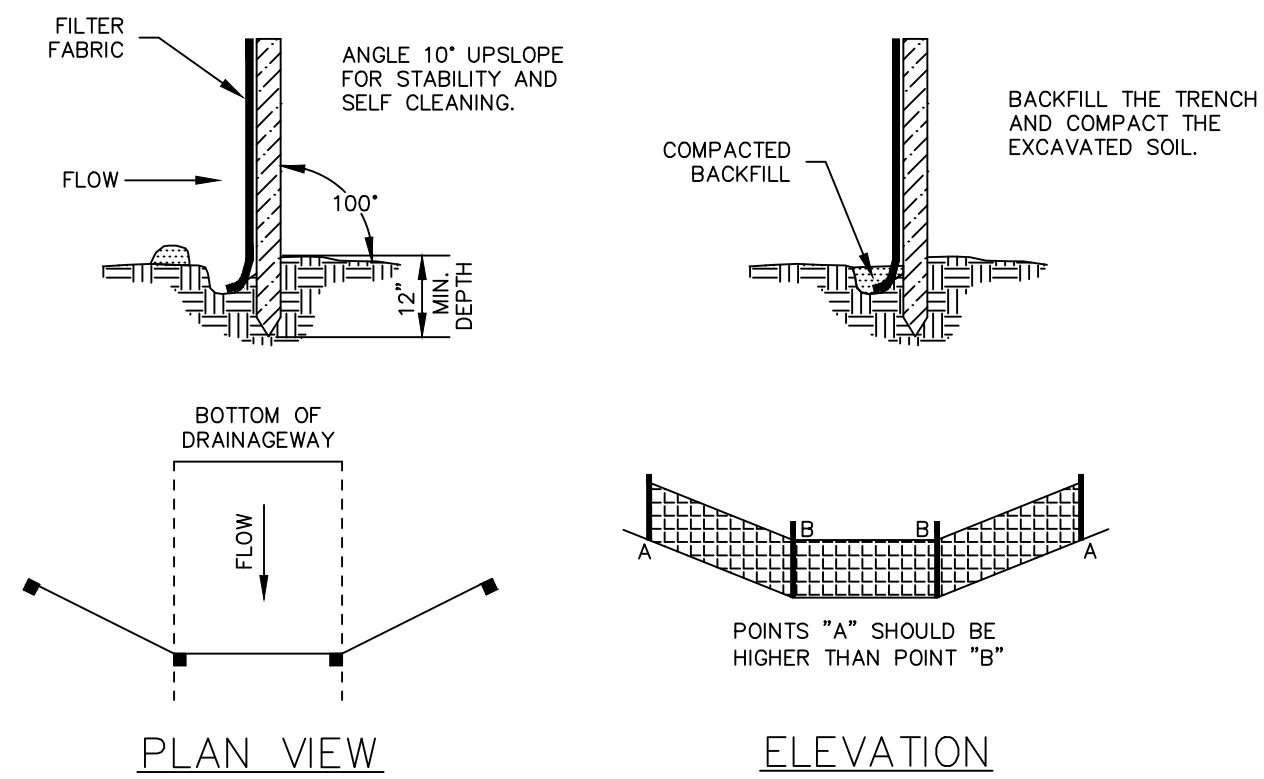
Mulching
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MAINTENANCE
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Where seed has been moved or where soil erosion has occurred, determine the cause of the failure and repair as needed.

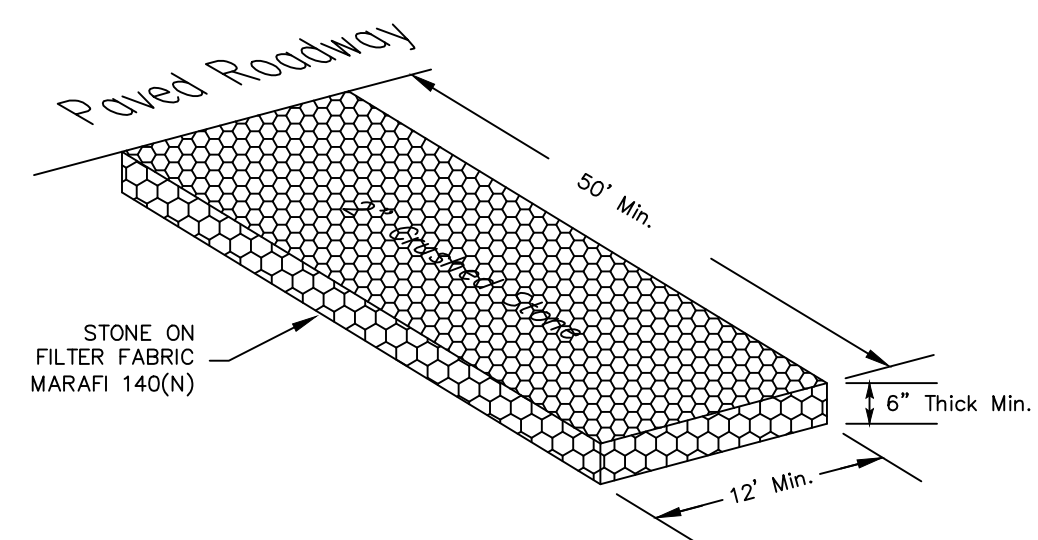
SOIL EROSION & SEDIMENT CONTROL NOTES

- 1. All soil erosion and sediment control work shall be done in strict accordance with the Connecticut Guidelines For Soil Erosion and Sediment Control latest edition.
2. Any additional erosion/sediment control deemed necessary by the engineer during construction, shall be installed by the developer.
3. All soil erosion and sediment control operations shall be in place prior to any grading operations and installation of proposed structures or utilities and shall be left in place until construction is completed and/or area is stabilized.
4. In all areas, removal of trees, bushes and other vegetation as well as disturbance of the soil is to be kept to an absolute minimum while allowing proper development of the site.
5. The developer shall practice effective dust control per the soil conservation service handbook during construction and until all areas are stabilized or surface treated.
6. All fill areas shall be compacted sufficiently for their intended purpose and as required to reduce slipping, erosion or excess saturation.
7. Topsoil is to be stripped and stockpiled in amounts necessary to complete finished grading of all exposed areas requiring topsoil.
8. Any and all fill material is to be free of brush, rubbish, timber, logs vegetative matter and stumps in amounts that will be detrimental to constructing stable fills.
9. Soil stabilization should be completed within 5 days of clearing or inactivity in construction.
10. Waste Materials - All waste materials (including wastewater) shall be disposed of in accordance with local, state and federal law.
11. The Contractor shall maintain on-site additional erosion control materials as a contingency in the event of a failure or when required to shore up existing BMPs.

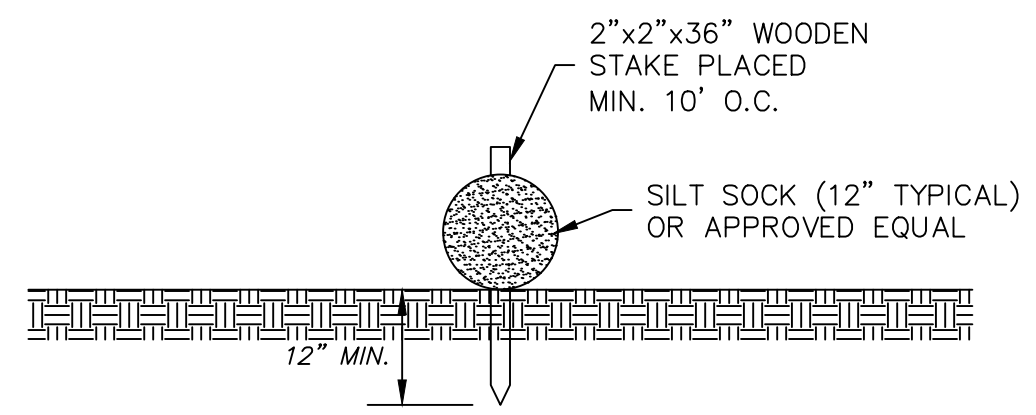


SOURCE: U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, STORRS, CONNECTICUT

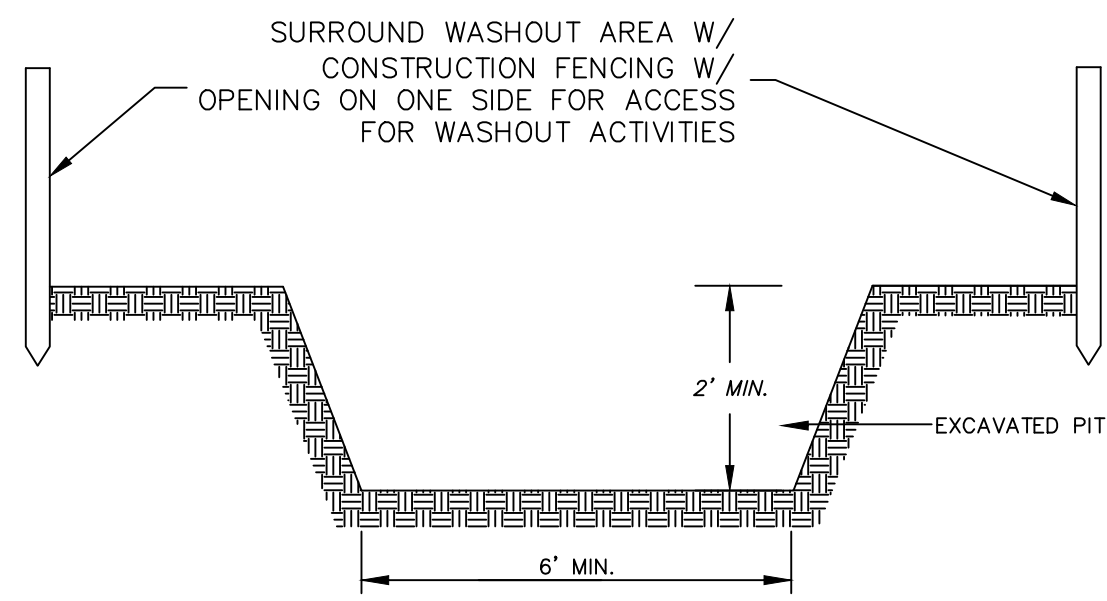
GEOTEXTILE SILT FENCE (GSF)



DRIVEWAY/ANTI-TRACKING PAD DETAIL (CE)



PERIMETER SEDIMENT BARRIER



CEMENT TRUCK WASHOUT AREA

CHECKLIST FOR EROSION CONTROL PLAN

PROJECT: CT Green Bank Solar Enfield, Robinson & Willard Facilities
LOCATION: 285 & 391 Shaker Road
PROJECT DESCRIPTION: Construction of Photovoltaic Solar Arrays
RESPONSIBLE PERSONNEL: Ed Pastunik, Alternate Power Generation, Inc. (APG): 847-477-7455
EROSION AND SEDIMENT CONTROL PLAN PREPARER: J.R. Russo & Associates, LLC

Table with columns: Work Description Erosion & Sediment Control Measures, Location, Date Installed, Initials, Date Removed, Initials. Rows include Install construction entrance and Install perimeter sediment barriers.

Table with columns: Location, Description or Number, Date, Initials. For Maintenance of Measures.

Project Dates:
Date of groundbreaking for project:
Date of final stabilization:

PROJECT NARRATIVE AND CONSTRUCTION SEQUENCE

This project is located at the Connecticut Department of Corrections Facilities located at 285 & 391 Shaker Road in Enfield, Connecticut. The proposed activity is the construction of photovoltaic solar array. The suggested schedule of construction is as follows:

- 1. Conduct a pre-construction meeting on-site with the contractor to review the design and requirements of the Stormwater Pollution Control Plan.
2. Install perimeter exclusionary silt fence (GSF) around the construction envelope as shown on the project plans.
3. Contractor to perform an initial sweep for turtles within the construction envelope and remove turtles found outside of the envelope.
4. Clear trees & grub stumps in areas as shown on Plans.
5. Strip topsoil in the vicinity of the proposed stormwater management basins.
6. Construct stormwater management basins.
7. Install foundations and solar panels.
8. Install electrical equipment and distribution lines.
9. Install security fence.
10. Restore all disturbed areas with topsoil, seed mix and mulch as soon as practicable.
11. Remove silt fence after site is fully stabilized.

Construction of this site is anticipated to begin in the spring of 2022 and be complete by January 2023, pending approvals. Temporary erosion control measures shall be installed prior to any soil disturbance and maintained throughout construction until soils have been stabilized with permanent vegetation.

The Contractor shall keep the area of disturbance to a minimum and establish vegetative cover on exposed soils as soon as practical. All soil and erosion control measures shall be installed and maintained in accordance with these plans and the Connecticut DEP Guidelines for Soil Erosion and Sediment Control, as amended.

The developer shall be responsible for the repair/replacement/maintenance of all erosion control measures until all disturbed areas are stabilized. Accumulated sediment shall be removed as required to keep silt fence functional. In all cases, deposits shall be removed when the accumulated sediment has reached one-half above the ground height of the silt fence.

POST CONSTRUCTION MAINTENANCE NOTES:

- 1. Maintain lawn & landscape areas with minimal pesticides.
2. Sweep parking lot and paved areas at least once per year in the spring.
3. Inspect catch basins and storm manholes at least twice per year, including after sweeping.
4. Inspect infiltration basin annually for evidence of hydrocarbons and remove by vac-truck.

RUSSO SURVEYORS-ENGINEERS SERVING CT & MA. Logo and contact information for Russo & Associates, LLC.

Alternative Power Generation Inc. Logo and name.

SUNPOWER logo and address: 1414 HARBOUR WAY SOUTH, RICHMOND, CA 94804 USA.

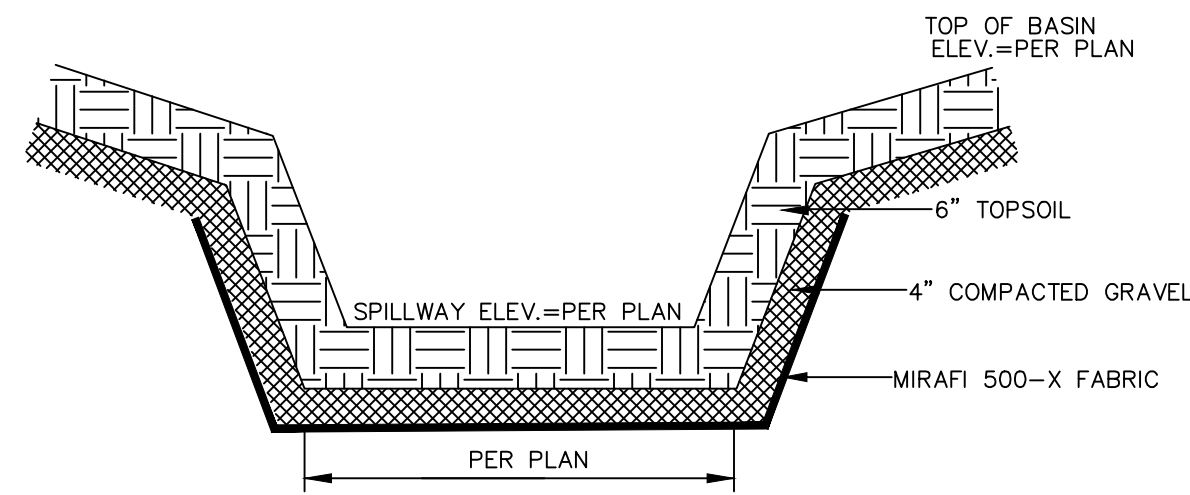
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REVISIONS
BY: LF/TAC CHK: JEU

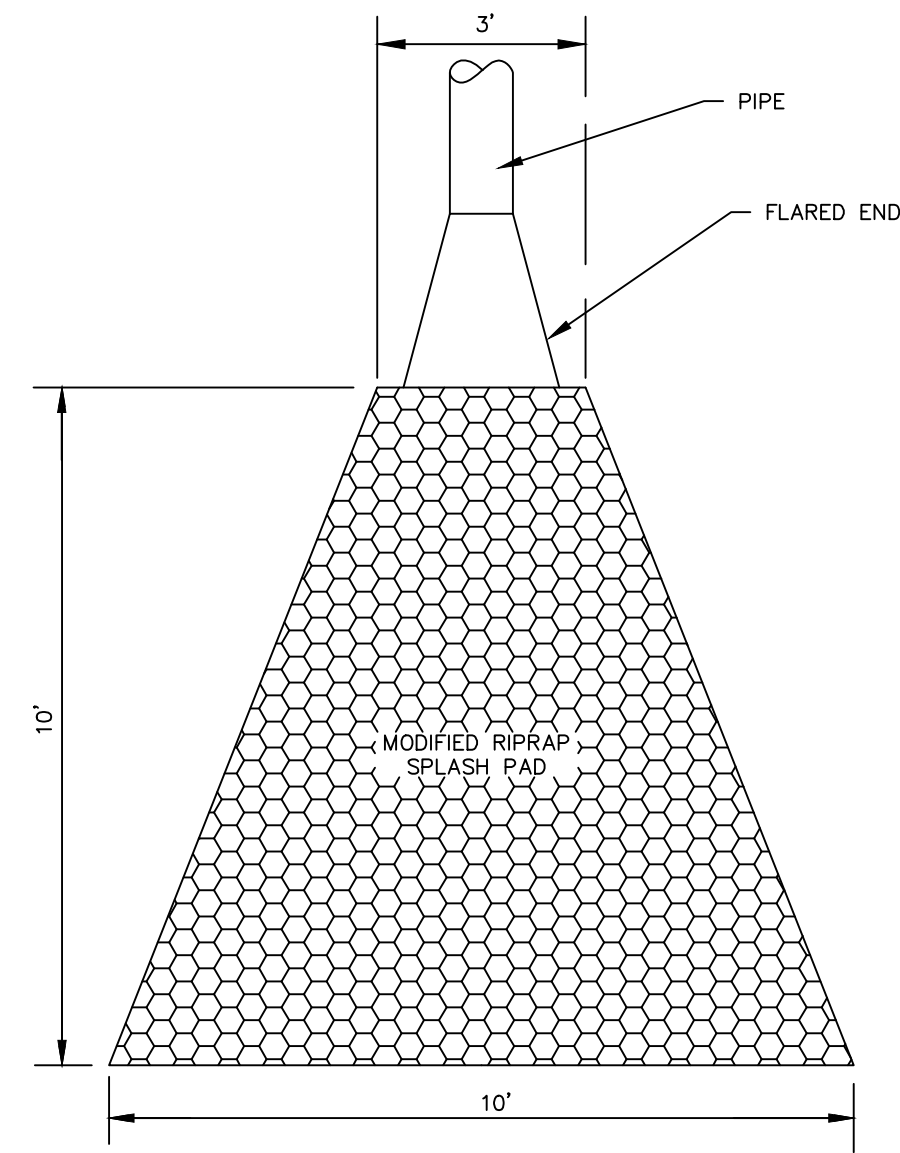
Connecticut Green Bank
Enfield, Robinson A, Robinson B & Willard
289 & 391 Shaker Road
Enfield, Connecticut

Erosion & Sediment Control Notes & Details

Table with fields: DATE (3-31-22), SCALE (AS SHOWN), JOB NUMBER (2021-040), SHEET (C-201).

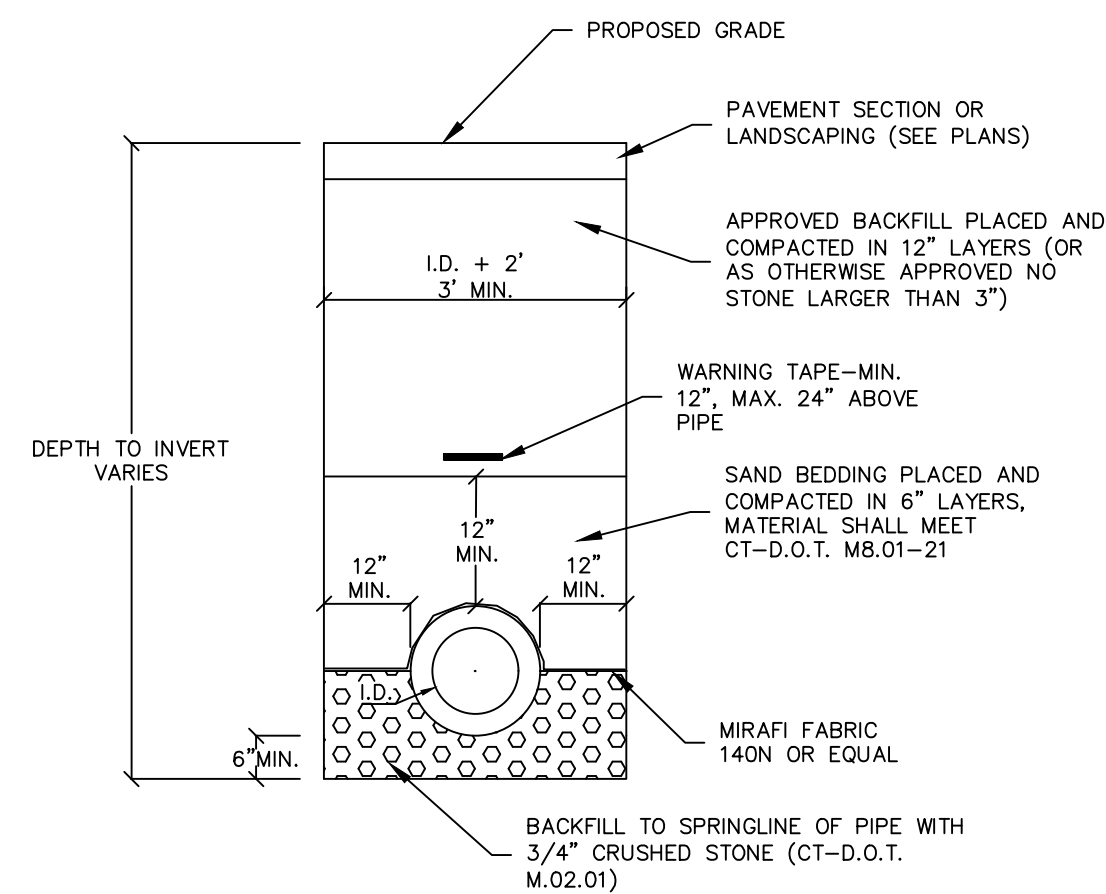


EARTHEN SPILLWAY
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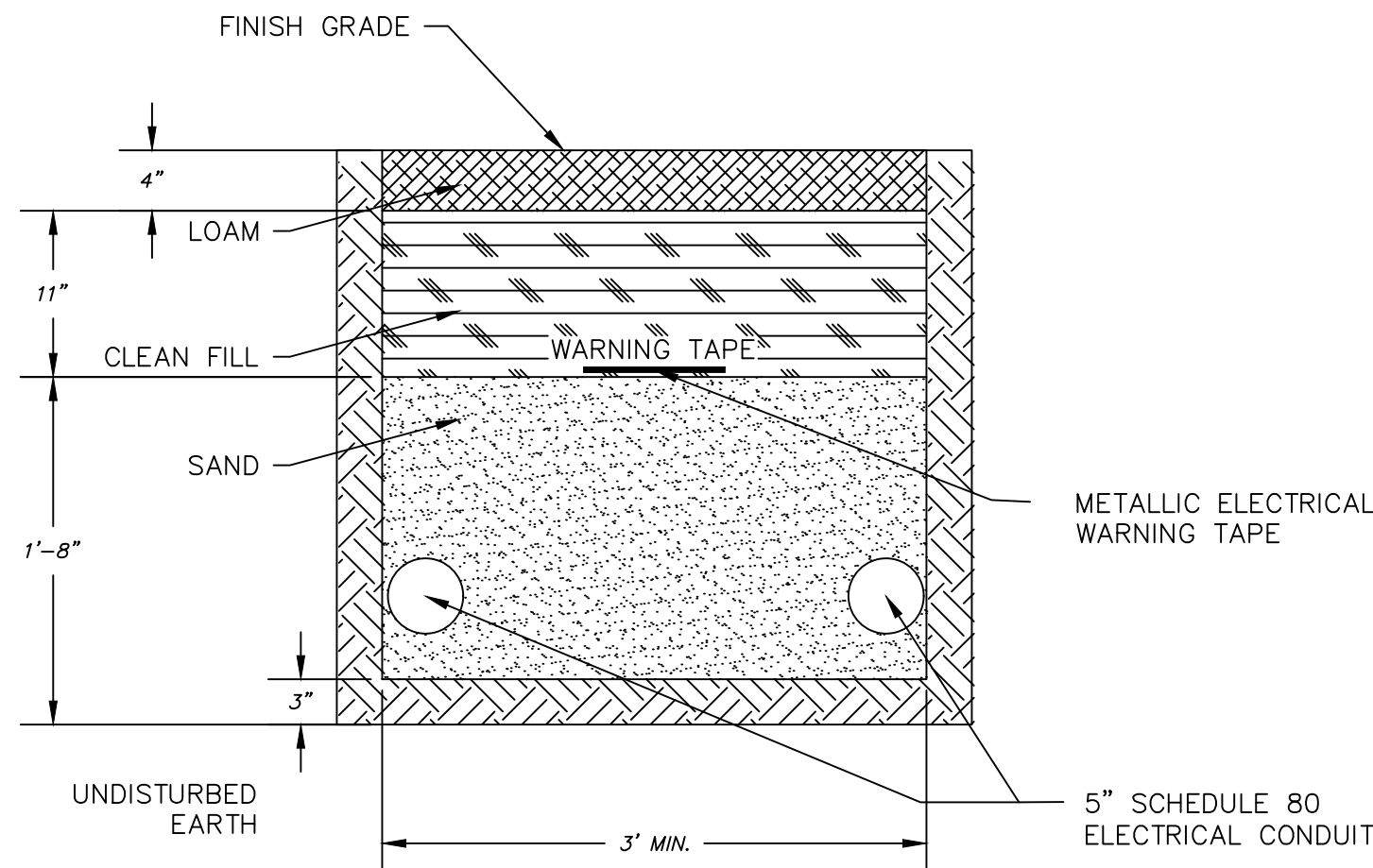


NOTE:
MODIFIED RIPRAP APRON (12\"/>

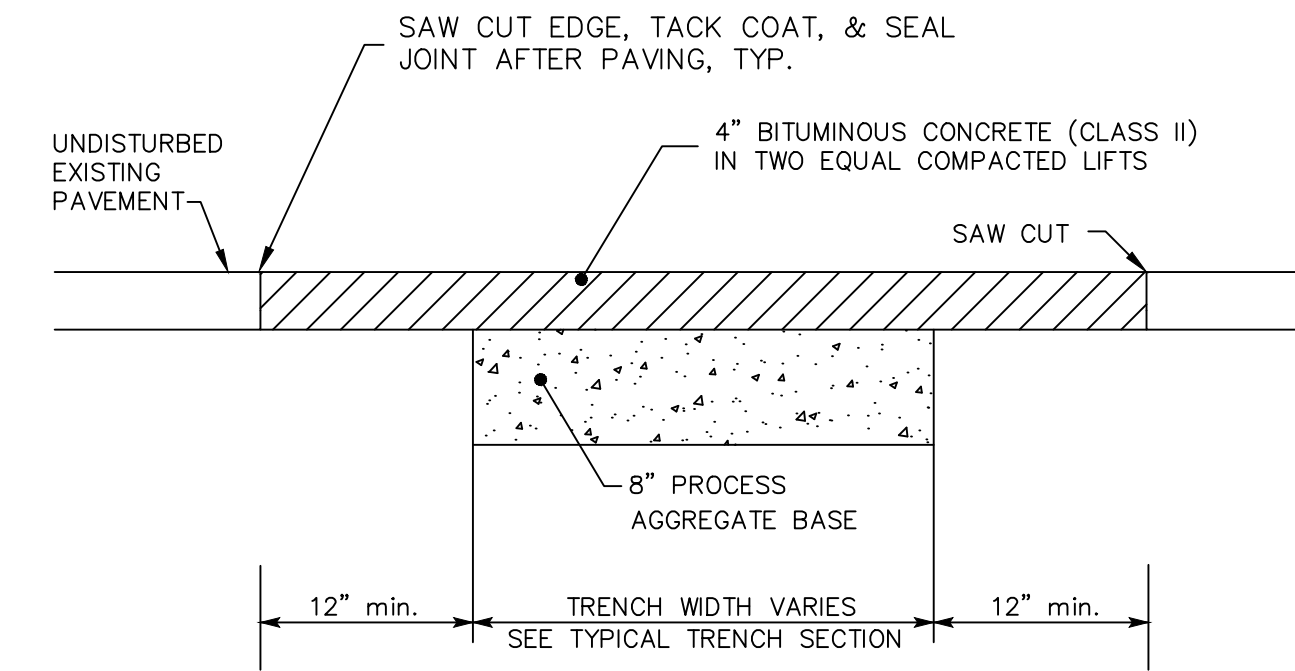
TYPE A RIPRAP APRON (OP)
N.T.S.



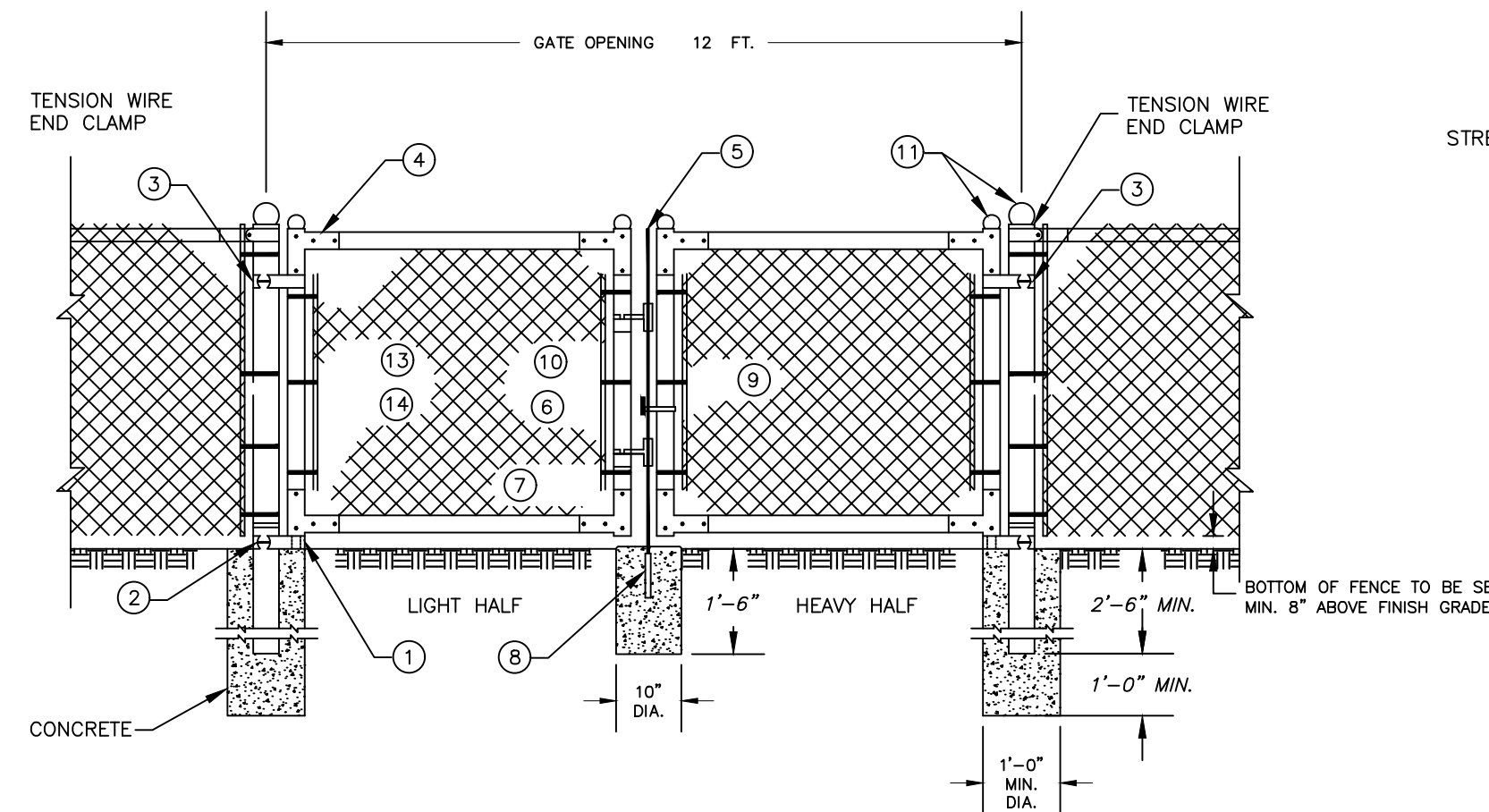
STANDARD STORM DRAIN DETAIL
NOT TO SCALE



MEDIUM VOLTAGE CABLE TRENCH DETAIL (MV)
NOT TO SCALE



PERMANENT PAVEMENT PATCH
NOT TO SCALE

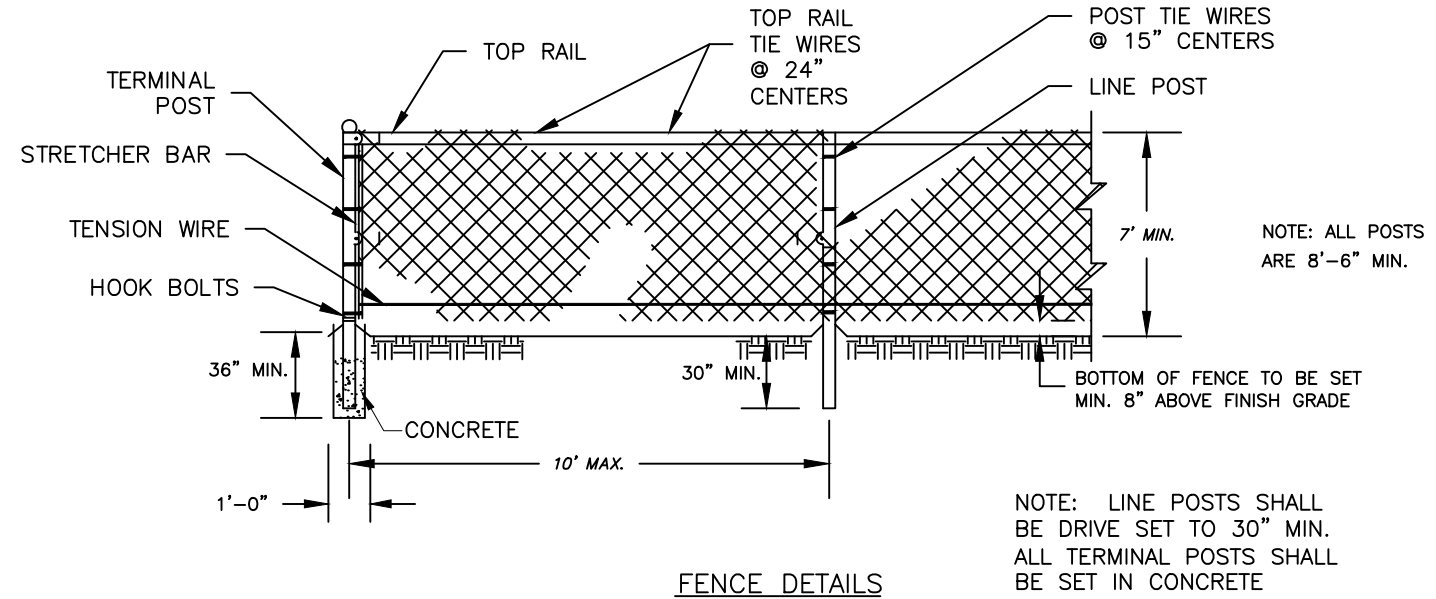


LEGEND

PART NO.	DESCRIPTION	QUANTITY
1	STRAIGHT PLUG	2
2	BOTTOM HINGE	2
3	TOP HINGE	2
4	CORNER ELBOW	8
5	PLUNGER ROD	1
6	LATCH FORK	2
7	FORK CATCH	2
8	PLUNGER ROD CATCH	1
9	LOCK KEEPER GUIDE	1
10	LOCK KEEPER	1
11	ORNAMENTAL TOPS	6
12	TRUSS RODS	4
13	STRETCHER BAR	4
14	HOOK BOLTS	12

NOTE:
THE FENCING SHALL BE #9 GAGE FENCE FABRIC, STANDARD 2-INCH CHAIN LINK DIAMOND MESH.

CHAIN LINK FENCE DETAIL
NOT TO SCALE



SHAPE, SIZE AND WEIGHT REQUIREMENTS FOR FENCE POSTS AND RAILS

ITEM	SHAPE	OUTSIDE DIMENSIONS INCHES	WEIGHT LBS./LIN. FT.
** TERMINAL POSTS	ROUND	2.375	3.65
** LINE POSTS	ROUND	1.90	2.72
** TOP & BRACE RAILS	ROUND	1.90	2.28
** RAILS	ROUND	1.66	1.84

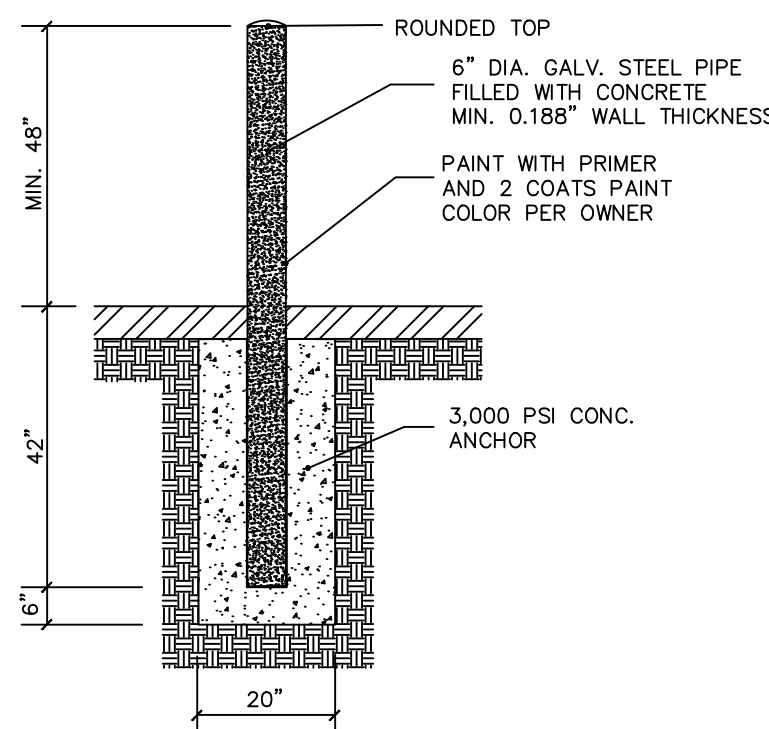
GATE FRAME MEMBERS SIZE AND WEIGHT

GATE FRAME	OUTSIDE DIMENSIONS INCHES	WEIGHT LBS./LIN. FT.
ROUND	1.66	2.27
ROUND	1.66	1.84

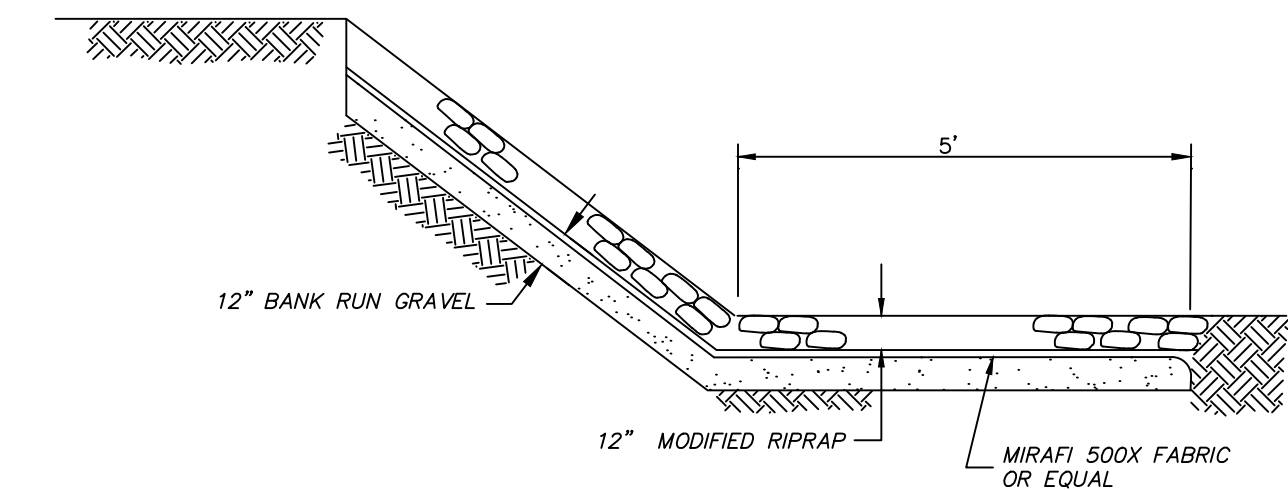
GATE POST SIZE AND WEIGHT

GATE LEAF WIDTH OF 6 FT. OR LESS	OUTSIDE DIMENSIONS INCHES	WEIGHT LBS./LIN. FT.
ROUND	2.875	5.79
ROUND	2.875	4.64

- CONSTRUCTION NOTES**
- MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS.
 - ALL POSTS SHALL BE INSTALLED VERTICALLY, WHERE POSTS ARE INSTALLED ON AN INCLINED SURFACE, THE ANGLE OF THE POST SHALL BE ADJUSTED SO THAT THE POST WILL BE VERTICAL.
 - THE FENCING SHALL BE #9 GAGE FENCE FABRIC, STANDARD 2-INCH CHAIN LINK DIAMOND MESH.



PIPE BOLLARD
NOT TO SCALE



RIPRAP SLOPE PROTECTION AT SPILLWAY
NOT TO SCALE

REVISIONS

NO.	DATE	DESCRIPTION

BY: LF/TAC CHK: JEU

Connecticut Green Bank
Enfield, Robinson A, Robinson B & Willard
289 & 391 Shaker Road
Enfield, Connecticut

Details

DATE	3-31-22
SCALE	AS SHOWN
JOB NUMBER	2021-040
SHEET	C-202