

SOLAR ELECTRIC SYSTEM CLIENT:
PRO-TECH ENERGY TUFTS
1MW SOLAR PV - SCIENCE PARK
200 WESTBORO ROAD
NORTH GRAFTON, MA 01536

PROJECT NUMBER
MA-12-0041

SHEET TITLE
**CONSTRUCTION
DETAILS**

ORIGINAL SIZE 24"x36"
SHEET SIZE ARCH "D"



STAMP:

ORIGINAL SEAL & SIGNATURE
REQUIRED FOR VALID CERTIFICATION

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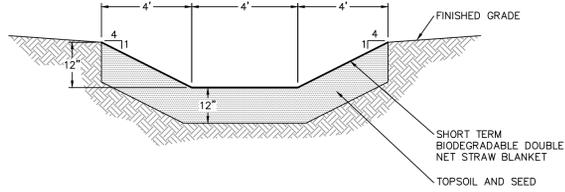
DATE: 08/08/2014
DRAWN BY: KB/ATB
ENGINEER: KB/ATB
APPROVED BY: XXX

NO.	REVISION	DATE
1	REVISED PER COMMENTS FROM TOWN'S REVIEW CONSULTANT	10/6/14

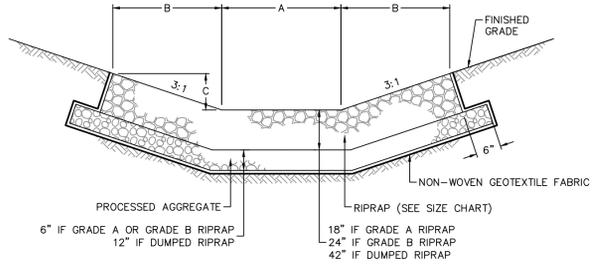
PROJECT PHASE:
SCALE: N.T.S.
SHEET NO:

CD-503

1 2 3 4 5 6



1 GRASS CHANNEL
NOT TO SCALE



RIPRAP CHANNEL DIMENSIONS (INCHES)											
DISCHARGE PIPE SIZE:	15	18	21	24	30	36	42	48	54	60	72
A	27	30	33	36	42	48	54	60	66	72	84
B	24	27	33	36	45	54	63	72	81	90	108
C	8	9	11	12	15	18	21	24	27	30	36
RIPRAP TYPE:	GRADE A			GRADE B			DUMPED RIPRAP				

RIPRAP GRADE 'A'

STONE SIZE	% WEIGHT
10"	0
6"	20-50
4"	30-60
2"	30-40
1-2"	10-20
<1"	0-10

RIPRAP GRADE 'B'

STONE SIZE	% WEIGHT
18"	0
10"	30-50
6"	30-50
4"	20-30
2"	10-20
<2"	0-10

DUMPED RIPRAP
PER M.H.D. STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, SECTION M2.02.2

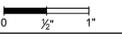
2 RIPRAP CHANNEL
NOT TO SCALE

SOLAR ELECTRIC SYSTEM CLIENT:
PRO-TECH ENERGY TUFTS
11MW SOLAR PV - SCIENCE PARK
200 WESTBORO ROAD
NORTH GRAFTON, MA 01536

PROJECT NUMBER
MA-12-0041

SHEET TITLE
SOLAR RACKING DETAILS

ORIGINAL SIZE 24"x36"
SHEET SIZE ARCH "D"



STAMP:

ORIGINAL SEAL & SIGNATURE
REQUIRED FOR VALID CERTIFICATION

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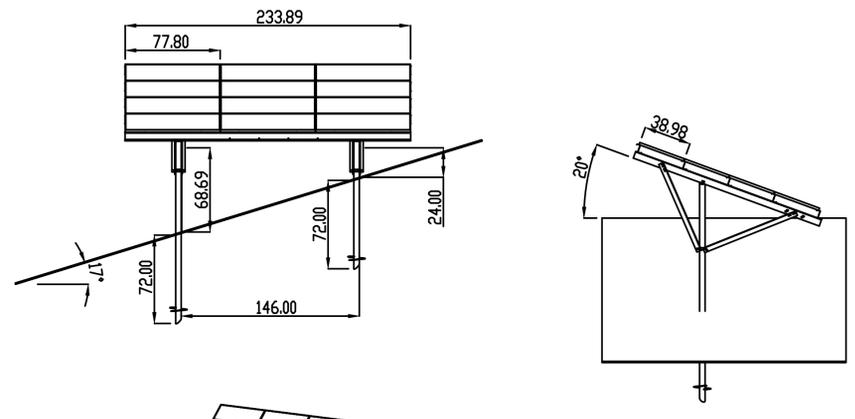
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Δ	REVISED PER COMMENTS FROM TOWN'S REVIEW CONSULTANT	10/6/14

PROJECT PHASE:
SCALE: **N.T.S.**
SHEET NO:

CD-504

1 2 3 4 5 6

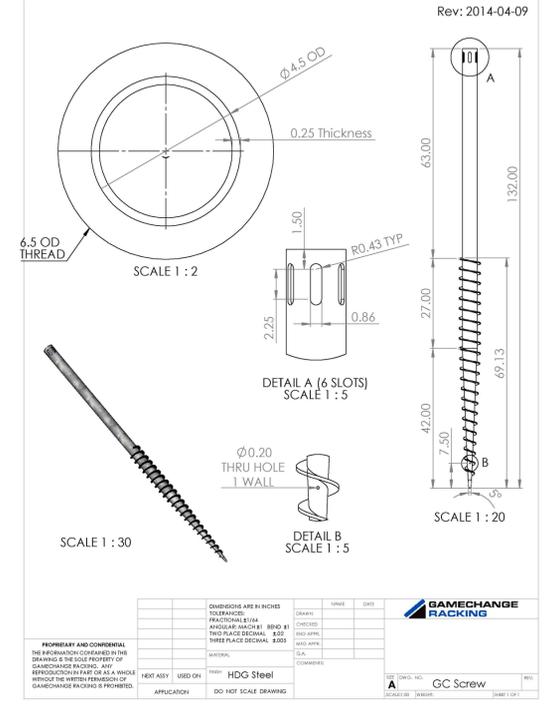


SunEdison Grafton, MA 2014-06-17
Silvantis M330 (77.8" x 38.98" x 1.97")

UNLESS OTHERWISE SPECIFIED:		UNITS	DATE	GAMECHANGE RACKING	
DIMENSIONS ARE IN DECIMALS	FRAMES			TITLE	
TOLERANCES UNLESS OTHERWISE SPECIFIED:	FINISHES			GCMS-HP(SunEd)	
FRACTIONS ARE TO BE SHOWN AS THREE PLACE DECIMALS, E.G. 3/8"	COATINGS			SIZE: 11x6 1/4	
ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED	PAINTS			REV	
ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED	WELDS			B	
ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED	WELDS			WEIGHT	
ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED	WELDS			SHEET 1 OF 1	

NOTE:
RACKING AND FOUNDATION BY OTHERS

① GCMS-HP(SUNED) SOLAR RACK
NOT TO SCALE



② GC GROUND SCREW
NOT TO SCALE