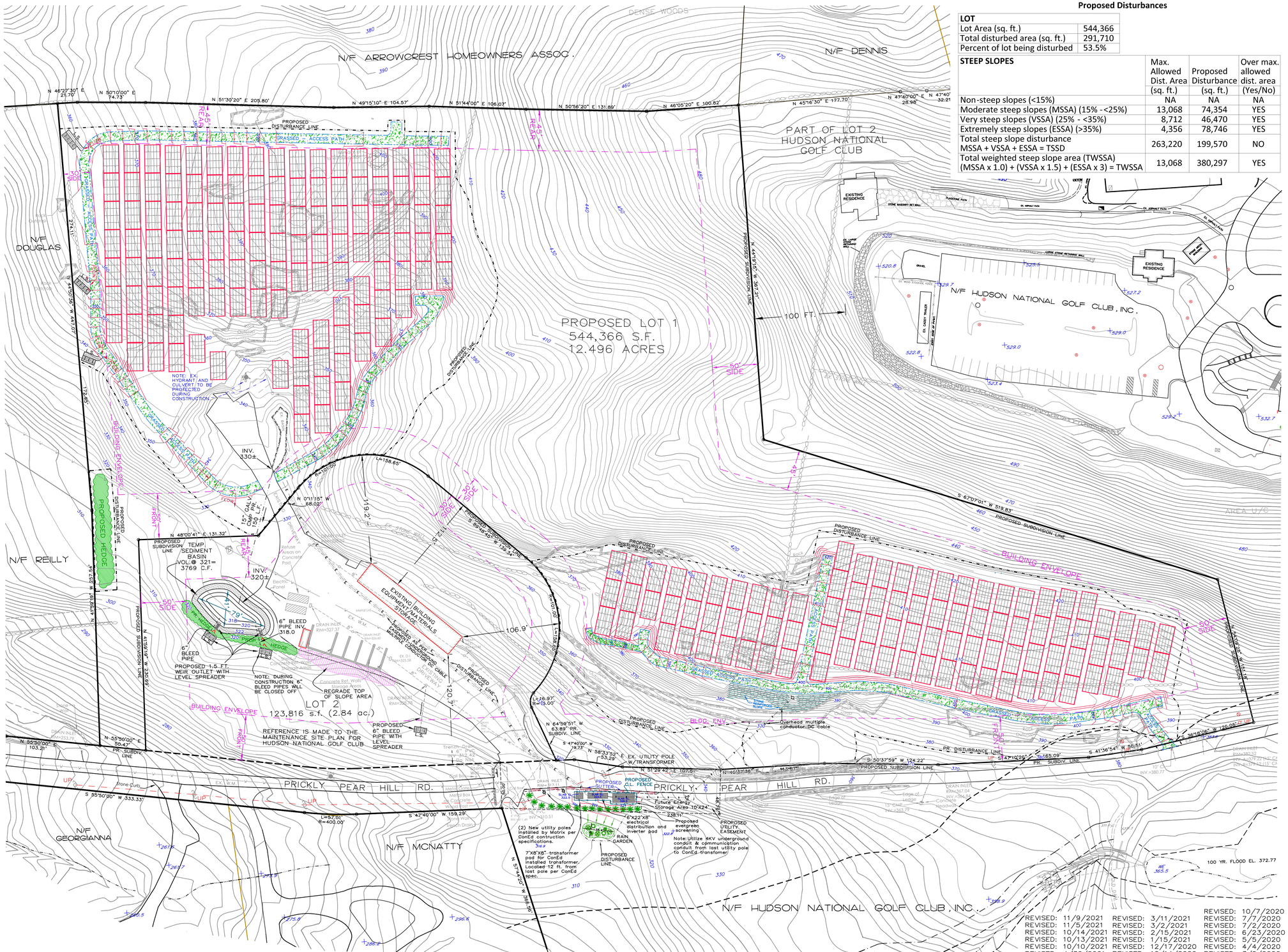

Proposed Disturbances

LOT	
Lot Area (sq. ft.)	544,366
Total disturbed area (sq. ft.)	291,710
Percent of lot being disturbed	53.5%

STEEP SLOPES	Max. Allowed Dist. Area (sq. ft.)	Proposed Disturbance (sq. ft.)	Over max. allowed dist. area (Yes/No)
Non-steep slopes (<15%)	NA	NA	NA
Moderate steep slopes (MSSA) (15% - <25%)	13,068	74,354	YES
Very steep slopes (VSSA) (25% - <35%)	8,712	46,470	YES
Extremely steep slopes (ESSA) (>35%)	4,356	78,746	YES
Total steep slope disturbance MSSA + VSSA + ESSA = TSSD	263,220	199,570	NO
Total weighted steep slope area (TWSSA) (MSSA x 1.0) + (VSSA x 1.5) + (ESSA x 3) = TWSSA	13,068	380,297	YES

0 25 50 100
SCALE IN FEET

LEGEND

SOLAR PANEL CONSISTING OF SUB-ARRAY OF 20 MODULES

PROPOSED DISTURBANCE LINE
TOTAL DISTURBANCE=6.70 AC.

L.S. PROPOSED LEVEL SPREADER

ZONING SCHEDULE

RA-60 DISTRICT	REQUIRED	PROPOSED
LOT 1		
MIN. SIZE OF LOT - LOT AREA	60,000 SF	544,366 SF
LOT WIDTH	175'	740'
LOT DEPTH	225'	710'
MIN. YARD DIMENSIONS		
FRONT	50'	50'
SIDE (1)	30'	30'
SIDE (BOTH)	80'	80'
REAR	45'	45'
FAR	0.15	N.A.
MAX. HEIGHT OF BUILDING		
STORIES	2 1/2	N.A.
FEET	35'	N.A.
MAXIMUM BUILDING COVERAGE	15%	5 %

RA-60 DISTRICT	REQUIRED	PROPOSED
LOT 2		
MIN. SIZE OF LOT - LOT AREA	60,000 SF	123,816 SF
LOT WIDTH	175'	422'
LOT DEPTH	225'	342'
MIN. YARD DIMENSIONS		
FRONT	50'	50'
SIDE (1)	30'	30'
SIDE (BOTH)	80'	80'
REAR	45'	45'
FAR	0.15	N.A.
MAX. HEIGHT OF BUILDING		
STORIES	2 1/2	N.A.
FEET	35'	N.A.
MAXIMUM BUILDING COVERAGE	15%	N.A.

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STATE OF NEW YORK
RALPH GEORGE MASTROMONACO
NO. 054496
PROFESSIONAL ENGINEER

SITE PLAN
PROPOSED SUBDIVISION/ SOLAR ARRAY SYSTEM

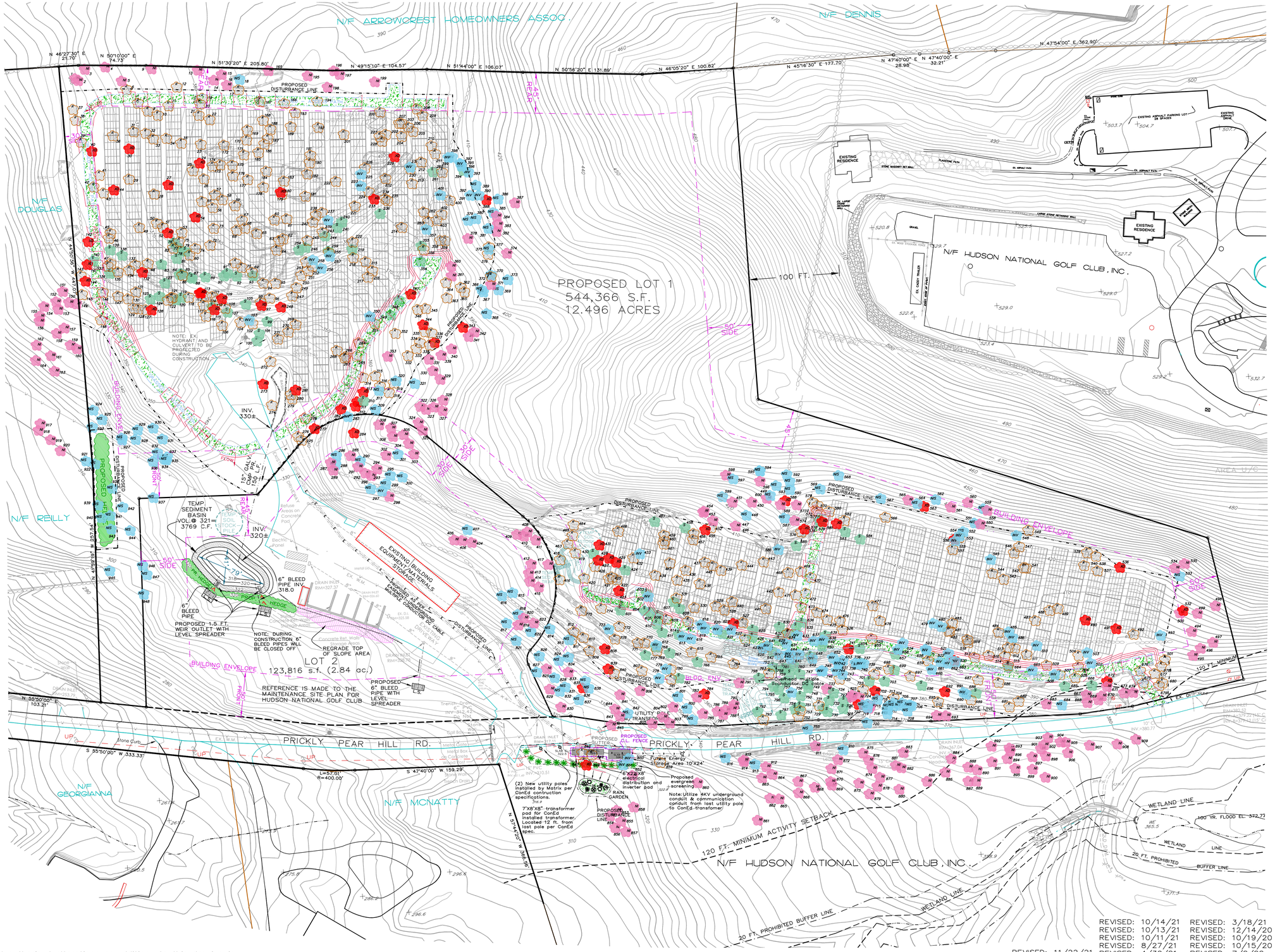
PREPARED FOR
HUDSON NATIONAL GOLF CLUB
VILLAGE OF CROTON-ON-HUDSON
TOWN OF CORTLANDT
WESTCHESTER COUNTY, NY
APRIL 22, 2019

SHEET 1 OF 7 SHEETS

REVISED: 11/22/2021
REVISED: 11/16/2021
REVISED: 11/9/2021
REVISED: 11/5/2021
REVISED: 10/14/2021
REVISED: 10/13/2021
REVISED: 10/10/2021
REVISED: 4/30/2021
REVISED: 4/22/2021
REVISED: 4/7/2021
REVISED: 3/31/2021
REVISED: 3/25/2021
REVISED: 3/18/2021
REVISED: 3/11/2021
REVISED: 3/2/2021
REVISED: 2/15/2021
REVISED: 1/15/2021
REVISED: 12/17/2020
REVISED: 12/14/2020
REVISED: 12/3/2020
REVISED: 11/10/2020
REVISED: 11/6/2020
REVISED: 10/19/2020
REVISED: 10/15/2020
REVISED: 10/7/2020
REVISED: 7/7/2020
REVISED: 7/2/2020
REVISED: 6/23/2020
REVISED: 5/5/2020
REVISED: 4/4/2020
REVISED: 3/2/2020
REVISED: 2/25/2020
REVISED: 2/24/2020
REVISED: 1/22/2020
REVISED: 10/25/2019
REVISED: 10/7/2019

Unauthorized alterations or additions to this drawing is a violation of Section 7209 (2) of the New York State Education Law.

ARROWCROFT DRIVE
RED MAPLE ROAD
FROSTY PEAK HILL RD
ALBANY POST RD
PROPOSED LOT 1
544,368 S.F.
12.496 ACRES
N/F HUDSON NATIONAL GOLF CLUB INC.
N/F HUDSON NATIONAL GOLF CLUB INC.
W-SC
W-SC
W-SC



TREE LEGEND

CATEGORY		COUNT
R	>8" D.B.H TO BE REMOVED	352
S	SMALL <8" D.B.H. TO BE REMOVED	117
INV	INVASIVE (REMOVE)	86
	TOTAL LIVE TREES TO BE REMOVED	555
OTHER TREES LOCATED		
XD	POOR/DEAD TO BE REMOVED	62
NI	NO IMPACT >8" D.B.H.	214
NIS	NO IMPACT <8" D.B.H.	117

LEGEND

SOLAR PANEL CONSISTING OF SUB-ARRAY OF 20 MODULES

PROPOSED DISTURBANCE LINE
TOTAL DISTURBANCE=6.70 AC.

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STATE OF NEW YORK — RALPH GEORGE MASTROMONACO — No. 054490 — LICENSED PROFESSIONAL ENGINEER

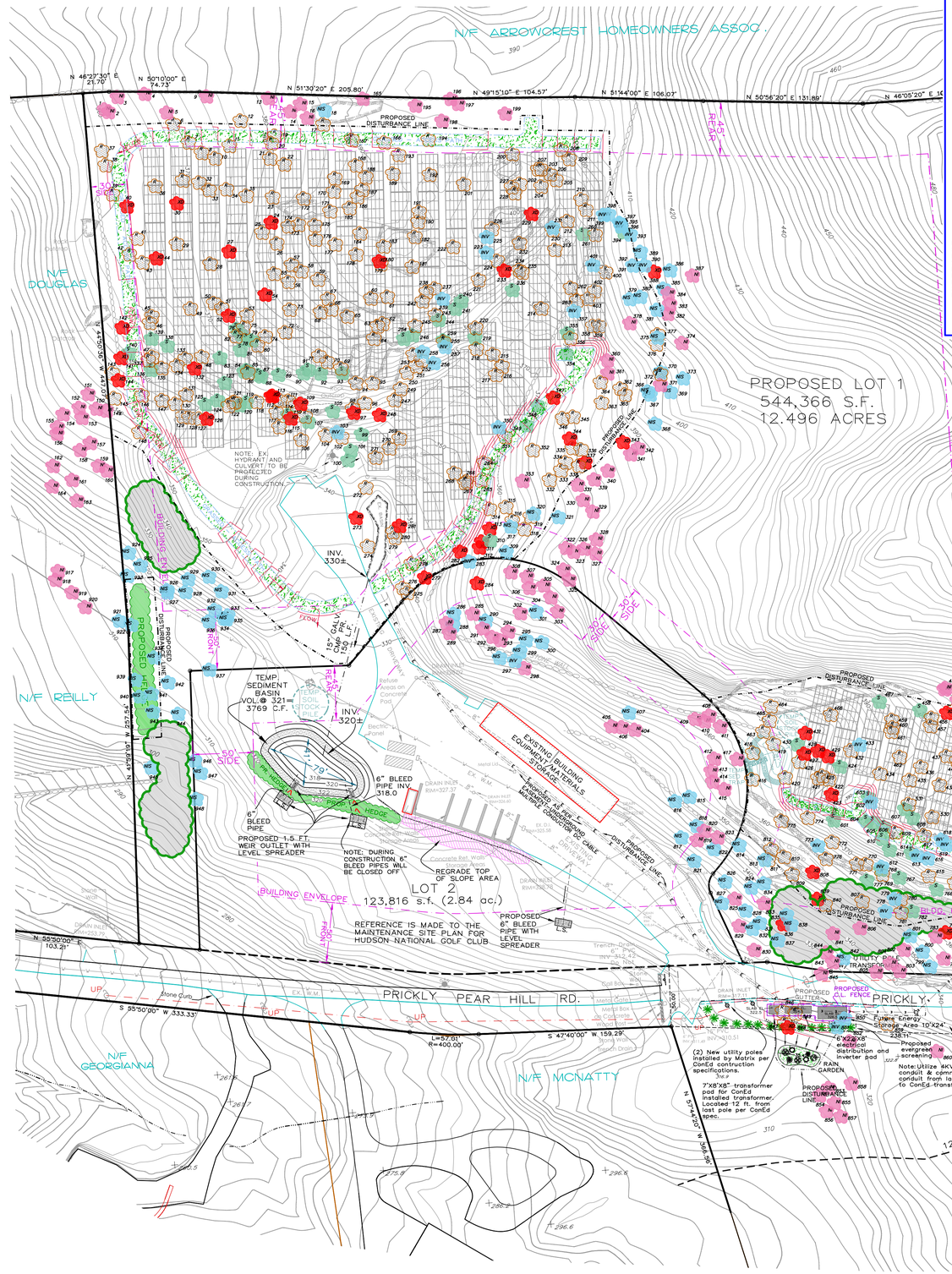
TREE PLAN
SOLAR ARRAY SYSTEM

PREPARED FOR
HUDSON NATIONAL GOLF CLUB
VILLAGE OF CROTON-ON-HUDSON
TOWN OF CORTLANDT
WESTCHESTER COUNTY, NY
MARCH 25, 2020

SHEET 3 OF 7 SHEETS

REVISED: 11/22/21
REVISED: 11/16/21
REVISED: 11/9/21
REVISED: 11/5/21
REVISED: 10/14/21
REVISED: 10/13/21
REVISED: 10/11/21
REVISED: 8/27/21
REVISED: 4/30/21
REVISED: 4/22/21
REVISED: 4/7/21
REVISED: 3/31/21
REVISED: 3/18/21
REVISED: 12/14/20
REVISED: 10/19/20
REVISED: 10/15/20
REVISED: 7/2/20
REVISED: 6/24/20
REVISED: 5/20/20
REVISED: 5/5/20

Unauthorized alterations or additions to this drawing is a violation of Section 7209 (2) of the New York State Education Law.


N/F ARROWCREST HOMEOWNERS ASSOC.
N/F DOUGLAS
N/F REILLY
N/F GEORGIANNA
N/F MCNATTY
PROPOSED LOT 1
544,366 S.F.
12.496 ACRES
LOT 2
123,816 s.f. (2.84 ac.)
PROPOSED DISTURBANCE LINE
BUILDING ENVELOPE
PROPOSED HEDGE
EXISTING BUILDING MATERIALS EQUIPMENT STORAGE
TEMP SEDIMENT BASIN VOL.@ 321= 3769 C.F.
TEMP SOIL STOCK PILE
PROPOSED 1.5 FT. WEIR OUTLET WITH LEVEL SPREADER
6" BLEED PIPE INV. 318.0
6" BLEED PIPE
NOTE: DURING CONSTRUCTION 6" BLEED PIPES WILL BE CLOSED OFF
REGRADE TOP OF SLOPE AREA
REFERENCE IS MADE TO THE MAINTENANCE SITE PLAN FOR HUDSON NATIONAL GOLF CLUB
PROPOSED 6" BLEED PIPE WITH LEVEL SPREADER
NOTE: EX. HYDRANT AND CULVERT TO BE PROTECTED DURING CONSTRUCTION.
INV. 330±
INV. 320±
PRICKLY PEAR HILL RD.
N 46°29'30" E 21.70'
N 50°10'00" E 74.73'
N 51°30'20" E 205.80'
N 49°15'10" E 104.57'
N 51°44'00" E 106.03'
N 50°56'20" E 131.89'
N 46°05'20" E
N 55°50'00" E 103.21'
S 55°50'00" W 333.33'
S 47°40'00" W 159.29'
N 42°10'00" W 369.38'
L=57.61' R=400.00'
45' REAR
30' SIDE
50' SIDE
100' FRONT
50' FRONT
UP
OHP
Stone Curb
Concrete Curb
Concrete Ext. Wall
Metal Guide Rail
Metal Box Culvert
Concrete Drain
Trench Drain
Refuse Area on Concrete Pad
Electric Panel
Gas Meter
Cell Box
Drain Inlet
Manhole
Utility Pole
Light Pole
Fire Hydrant
Water Valve
Water Meter
Sign
Guide Rail
Existing Contour
Proposed Contour
Proposed Swale
Proposed Rip Rap
Proposed Silt Fence
Proposed Stone Check Dam
Proposed Inlet Protection
Proposed Stabilized Construction Entrance
Proposed Underground Electric Line
Proposed Overhead Electric Line
Proposed Underground Communication Line
Proposed Overhead Communication Line
Proposed Underground Gas Line
Proposed Water Line
Proposed Sanitary Sewer Line
Proposed Storm Sewer Line
Proposed Retaining Wall
Proposed Gravel Access Road
Proposed Concrete Pad
Proposed Utility Pole
Proposed Guy Wire
Proposed Light Pole
Proposed Fire Hydrant
Proposed Water Valve
Proposed Sign
Proposed Silt Fence
Proposed Tree Protection Fence
Proposed Rock Outlet Protection
Proposed Rock

Tree ID	Common Name	Genus	Species	DBH	Condition Class	Tree Asset Value	STATUS
1	Hickory/Hickory	Carya	sp	17	Good	6225.18	
2	Hickory/Pecan	Carya	sp	12	Fair	2215.58	
3	Hickory/Pecan	Carya	sp	8	Fair	984.7	
4	Hickory/Pecan	Carya	sp	14	Good	4221.92	
5	Hickory/Pecan	Carya	sp	16	Good	5514.34	
6	Hickory/Pecan	Carya	sp	15	Good	4846.59	
7	Oak-Northern Red	Quercus	rubra	17	Good	6225.18	
8	Hickory/Pecan	Carya	sp	17	Good	6225.18	
9	Hickory/Pecan	Carya	sp	12	Good	3101.82	
10	Hickory/Pecan	Carya	sp	11	Good	2606.39	
11	Hickory/Pecan	Carya	sp	21	Good	9499.32	
12	Oak-White	Quercus	alba	19	Good	7776.08	
13	Hickory/Pecan	Carya	sp	17	Good	6225.18	
14	Hickory/Pecan	Carya	sp	10	Good	2154.04	
15	Hickory/Pecan	Carya	sp	15	Good	4846.59	
16	Hickory/Pecan	Carya	sp	8	Good	1378.59	
17	Oak-White	Quercus	alba	13	Good	3640.33	
18	Redcedar-Eastern	Juniperus	virginiana	8	Good	1378.59	
19	Hickory/Pecan	Carya	sp	9	Good	1378.59	
20	Hickory/Pecan	Carya	sp	13	Good	4695.81	
21	Oak-White	Quercus	alba	19	Good	7776.08	
22	Hickory/Pecan	Carya	sp	11	Good	2606.39	
23	Cherry-Black	Prunus	serotina	8	Good	1378.59	
24	Oak-Northern Red	Quercus	rubra	14	Dead	0	
25	Hickory/Pecan	Carya	sp	13	Good	3640.33	
26	Hickory/Pecan	Carya	sp	9	Good	1744.77	
27	Oak-Northern Red	Quercus	rubra	20	Dead	0	
28	Hickory/Pecan	Carya	sp	13	Good	3640.33	
29	Cherry-Black	Prunus	serotina	8	Fair	984.7	
30	Cherry-Black	Prunus	serotina	9	Dead	0	
31	Cherry-Black	Prunus	serotina	8	Good	1378.59	
32	Oak-White	Quercus	alba	17	Good	6225.18	
33	Hickory/Pecan	Carya	sp	13	Good	3640.33	
34	Hickory/Pecan	Carya	sp	8	Good	1378.59	
35	Oak-Northern Red	Quercus	rubra	8	Good	1378.59	
36	Cherry-Black	Prunus	serotina	9	Good	1744.77	
37	Oak-White	Quercus	alba	13	Good	3640.33	
38	Hickory/Pecan	Carya	sp	15	Good	4846.59	
39	Oak-Black	Quercus	velutina	20	Good	8616.16	
40	Oak-Black	Quercus	velutina	24	Dead	0	
41	Oak-Northern Red	Quercus	rubra	22	Good	10425.55	
42	Oak-White	Quercus	alba	15	Good	4846.59	
43	Oak-White	Quercus	alba	18	Good	6979.09	
44	Oak-Black	Quercus	velutina	20	Poor	7025.25	
45	Oak-Northern Red	Quercus	rubra	13	Good	3640.33	
46	Oak-Northern Red	Quercus	rubra	10	Good	2154.04	
47	Oak-White	Quercus	alba	20	Good	8616.16	
48	Oak-Northern Red	Quercus	rubra	26	Good	14561.31	
49	Hickory/Pecan	Carya	sp	11	Good	2606.39	
50	Cherry-Black	Prunus	serotina	8	Good	1378.59	
51	Hickory-Shagbark	Carya	ovata	10	Good	2154.04	
52	Cherry	Prunus	sp	9	Dead	0	
53	Oak-Northern Red	Quercus	rubra	12	Good	3101.82	
54	Plum-Purple Leaf	Prunus	cerasifera	10	Dead	0	
55	Oak-Northern Red	Quercus	rubra	13	Good	6742.15	
56	Oak-Northern Red	Quercus	rubra	11	Good	2606.39	
57	Oak-Northern Red	Quercus	rubra	9	Good	1744.77	
58	Hickory/Pecan	Carya	sp	9	Good	2089.42	
59	Oak-Chestnut	Quercus	prinus	22	Fair	7446.82	
60	Hickory/Pecan	Carya	sp	10	Good	2154.04	
61	Hickory/Pecan	Carya	sp	12	Good	3101.82	
62	Hickory/Pecan	Carya	sp	9	Good	1744.77	
63	Oak-White	Quercus	alba	10	Good	2154.04	
64	Hickory/Pecan	Carya	sp	8	Good	1378.59	
65	Hickory/Pecan	Carya	sp	13	Good	5794.37	
66	Hickory/Pecan	Carya	sp	13	Good	3640.33	
67	Hickory/Pecan	Carya	sp	11	Good	2606.39	
68	Hickory/Pecan	Carya	sp	12	Good	2606.39	
69	Hickory/Pecan	Carya	sp	12	Good	3101.82	
70	Hickory/Pecan	Carya	sp	9	Good	1744.77	
71	Oak-Northern Red	Quercus	rubra	8	Good	1378.59	
72	Hickory/Pecan	Carya	sp	9	Good	3123.39	
73	Hickory/Pecan	Carya	sp	8	Good	2757.17	
74	Hickory/Pecan	Carya	sp	10	Good	3704.95	
75	Hickory/Pecan	Carya	sp	8	Fair	1969.41	
76	Hickory/Pecan	Carya	sp	4	Good	689.29	
77	Hickory/Pecan	Carya	sp	6	Good	775.45	
78	Hickory/Pecan	Carya	sp	4	Good	344.65	
79	Hickory/Pecan	Carya	sp	7	Good	1055.48	
80	Hickory/Pecan	Carya	sp	8	Good	2261.74	
81	Cherry-Black	Prunus	serotina	4	Good	344.65	
82	Oak-White	Quercus	alba	11	Good	4760.43	
83	Cherry-Black	Prunus	serotina	7	Fair	793.91	
84	Cherry-Black	Prunus	serotina	7	Fair	793.91	
85	Hickory/Pecan	Carya	sp	5	Good	536.51	
86	Hickory/Pecan	Carya	sp	7	Good	2606.39	
87	Hickory/Pecan	Carya	sp	5	Good	536.51	
88	Hickory/Pecan	Carya	sp	5	Good	883.16	
89	Hickory/Pecan	Carya	sp	5	Good	883.16	
90	Hickory/Pecan	Carya	sp	5	Good	624.67	
91	Hickory/Pecan	Carya	sp	6	Good	775.45	
92	Hickory/Pecan	Carya	sp	5	Good	536.51	
93	Hickory/Pecan	Carya	sp	6	Good	775.45	
94	Oak-Northern Red	Quercus	rubra	24	Good	12497.27	
95	Cherry-Black	Prunus	serotina	17	Fair	4446.55	
96	Hickory/Pecan	Carya	sp	12	Good	3101.82	
97	Cherry-Black	Prunus	serotina	7	Poor	452.35	
98	Maple-Sugar	Acer	saccharum	8	Good	1378.59	
99	Cherry	Prunus	sp	5	Good	536.51	
100	Sassafras-Common	Sassafras	albidum	5	Good	536.51	
101	Cherry	Prunus	sp	5	Good	536.51	
102	Oak-Northern Red	Quercus	rubra	28	Good	22402.02	
103	Maple-Norway	Acer	platanoides	9	Good	1744.77	
104	Oak-Northern Red	Quercus	rubra	18	Good	6979.09	
105	Cherry	Prunus	sp	6	Good	775.45	
106	Oak-Northern Red	Quercus	rubra	36	Good	26716.68	
107	Cherry	Prunus	sp	5	Good	536.51	
108	Oak-White	Quercus	alba	23	Good	11194.87	
109	Cherry	Prunus	sp	6	Dead	0	
110	Oak-Black	Quercus	velutina	13	Good	3640.33	
111	Oak-White	Quercus	alba	12	Good	3101.82	
112	Oak-White	Quercus	alba	8	Good	1378.59	
113	Cherry	Prunus	sp	4	Dead	0	
114	Cherry	Prunus	sp	6	Good	775.45	
115	Cherry	Prunus	sp	6	Poor	332.34	
116	Oak-White	Quercus	alba	19	Fair	5554.35	
117	Oak-Black	Quercus	velutina	18	Good	6979.09	
118	Cherry	Prunus	sp	8	Good	1378.59	
119	Hickory/Pecan	Carya	sp	7	Good	1055.48	
120	Cherry	Prunus	sp	6	Good	775.45	
121	Oak-White	Quercus	alba	10	Good	2154.04	
122	Cherry	Prunus	sp	10	Good	2154.04	
123	Hickory/Pecan	Carya	sp	5	Good	536.51	
124	Oak-White	Quercus	alba	6	Good	775.45	
125	Cherry	Prunus	sp	7	Good	1055.48	
126	Oak-Northern Red	Quercus	rubra	11	Dead	0	
127	Oak-Northern Red	Quercus	rubra	8	Good	1378.59	
128	Hickory/Pecan	Carya	sp	5	Good	536.51	
129	Oak-White	Quercus	alba	6	Good	775.45	
130	Oak-Northern Red	Quercus	rubra	26	Good	14561.31	
131	Cherry	Prunus	sp	8	Good	1378.59	
132	Cherry	Prunus	sp	6	Dead	0	
133	Oak-Northern Red	Quercus	rubra	6	Good	775.45	
134	Cherry	Prunus	sp	8	Fair	984.7	
135	Oak-Northern Red	Quercus	rubra	8	Good	1917.1	
136	Oak-Northern Red	Quercus	rubra	4	Fair	246.18	
137	Cherry	Prunus	sp	8	Good	1378.59	
138	Oak-Northern Red	Quercus	rubra	4	Good	344.65	
139	Oak-Northern Red	Quercus	rubra	4	Good	344.65	
140	Hickory/Pecan	Carya	sp	6	Good	775.45	
141	Oak-Black	Quercus	velutina	20	Dead	0	
142	Oak-Black	Quercus	velutina	24	Dead	0	
143	Cherry	Prunus	sp	9	Good	1744.77	
144	Oak-Northern Red	Quercus	rubra	12	Dead	0	
145	Oak-Northern Red	Quercus	rubra	8	Good	1378.59	
146	Oak-White	Quercus	alba	18	Good	6979.09	
147	Oak-Black	Quercus	velutina	22	Good	29851.11	
148	Oak-Black	Quercus	velutina	21	Good	9499.32	
149	Hickory/Pecan	Carya	sp	10	Good	2154.04	
150	Hickory/Pecan	Carya	sp	13	Good	3640.33	
151	Oak-Northern Red	Quercus	rubra	21	Good	9499.32	
152	Hickory/Pecan	Carya	sp	12	Good	3101.82	
153	Oak-White	Quercus	alba	12	Good	3101.82	
154	Hickory/Pecan	Carya	sp	11	Good	3075.71	
155	Hickory/Pecan	Carya	sp	8	Good	1378.59	
156	Oak-White	Quercus	alba	16	Good	5514.34	
157	Oak-White	Quercus	alba	13	Good	3640.33	
158	Oak-White	Quercus	alba	15	Good	4846.59	
159	Hickory/Pecan	Carya	sp	13	Good	3640.33	
160	Oak-Black	Quercus	velutina	26	Good	14561.31	
161	Oak-White	Quercus	alba	12	Poor	1329.36	
162	Maple-Norway	Acer	platanoides	16	Fair	3938.82	
163	Oak-Northern Red	Quercus	rubra	23	Good	20899.16	
164	Oak-Northern Red	Quercus	rubra	14	Good	4221.92	
165	Oak-White	Quercus	alba	27	Good	15702.95	
166	Oak-White	Quercus	alba	27	Good	15702.95	
167	Cherry	Prunus	sp	12	Good	3101.82	
168	Oak-White	Quercus	alba	12	Good	3101.82	
169	Oak-White	Quercus	alba	18	Fair	4985.06	
170	Hickory/Pecan	Carya	sp	16	Good	5514.34	
171	Cherry	Prunus	sp	9	Fair	1246.27	
172	Hickory/Pecan	Carya	sp	9	Good	1744.77	
173	Oak-Northern Red	Quercus	rubra	10	Good	2154.04	
174	Cherry	Prunus	sp	8	Good	1378.59	
175	Oak-Northern Red	Quercus	rubra	9	Good	1744.77	
176	Hickory/Pecan	Carya	sp	10	Good	2154.04	
177	Hickory/Pecan	Carya	sp	11	Good	3984.97	
178	Hickory/Pecan	Carya	sp	12	Good	3877.27	
179	Redcedar-Eastern	Juniperus	virginiana	11	Fair	1961.71	
180	Cherry	Prunus	sp	10	Dead	0	
181	Cherry	Prunus	sp	10	Good	2154.04	
182	Hickory/Pecan	Carya	sp	8	Good	1572.45	
183	Cherry	Prunus	sp	10	Good	2154.04	
184	Hickory/Pecan	Carya	sp	8	Good	1378.59	
185	Oak-Black	Quercus	velutina	18	Good	6979.09	
186	Oak-White	Quercus	alba	13	Good	5794.37	
187	Oak-Black	Quercus	velutina	16	Good	5514.34	
188	Oak-White	Quercus	alba	13	Good	3640.33	
189	Oak-Black	Quercus	velutina	20	Good	8616.16	
190	Oak-Northern Red	Quercus	rubra	13	Good	3640.33	
191	Oak-White	Quercus	alba	24	Good	12497.27	
192	Oak-Black	Quercus	velutina	30	Fair	21294.22	
193	Hickory/Pecan	Carya	sp	12	Good	3101.82	
194	Hickory/Pecan	Carya	sp	12	Good	3101.82	
195	Oak-Black	Quercus	velutina	28	Good	16887.67	
196	Hickory/Pecan	Carya	sp	15	Good	4846.59	
197	Oak-White	Quercus	alba	21	Good	9499.32	
198	Hickory/Pecan	Carya	sp	15	Good	4846.59	
199	Maple-Red	Acer	rubrum	27	Good	15702.95	
200	Maple-Sugar	Acer	saccharum	12	Good	3101.82	

Tree ID	Common Name	Genus	Species	DBH	Condition Class	Tree Asset Value	STATUS
201	Oak-Black	Quercus	velutina	22	Good	10425.55	
202	Maple-Sugar	Acer	saccharum	10	Good	2154.04	
203	Maple-Red	Acer	rubrum	9	Good	1744.77	
204	Oak-Northern Red	Quercus	rubra	11	Good	2606.39	
205	Cherry	Prunus	sp	9	Fair	1246.27	
206	Oak-Northern Red	Quercus	rubra	14	Good	4221.92	
207	Maple-Sugar	Acer	saccharum	9	Good	1744.77	
208	Birch-River	Betula	nigra	11	Good	2606.39	
209	Birch-River	Betula	nigra	9	Good	1744.77	
210	Birch-River	Betula	nigra	8	Fair	984.7	
211	Birch-River	Betula	nigra	8	Good	1378.59	
212	Birch-River	Betula	nigra	8	Fair	984.7	
213	Birch-River	Betula	nigra	11	Good	2606.39	
214	Maple-Sugar	Acer	saccharum	10	Good	2154.04	
215	Tuliptree	Liriodendron	tulipifera	21	Good	16724.49	
216	Tuliptree	Liriodendron	tulipifera	21	Good	18998.63	
217	Tuliptree	Liriodendron	tulipifera	19	Fair	7709.93	
218	Birch-River	Betula	nigra	9	Good	1744.77	
219	Hickory/Pecan	Carya	sp	9	Good	1744.77	
220	Hickory/Pecan	Carya	sp	14	Good	4221.92	
221	Oak-Northern Red	Quercus	rubra	8	Good	1378.59	
222	Hickory/Pecan	Carya	sp	9	Good	1744.77	
223	Hickory/Pecan	Ailanthus	altissima	17	Good	6225.18	
224	Oak-White	Quercus	alba	23	Good	11394.87	
225	Tree of Heaven	Ailanthus	altissima	8	Good	1378.59	
226	Hickory/Pecan	Carya	sp	15	Good	4846.59	
227	Sassafras-Common	Sassafras	albidum	11	Good	2606.39	
228	Sassafras-Common	Sassafras	albidum	11	Good	2154.04	
229	Maple-Sugar	Acer	saccharum	11	Dead	0	
230	Sassafras-Common	Sassafras	albidum	10	Good	2154.04	
231	Maple-Norway	Acer	platanoides	8	Good	1378.59	
232	Oak-Chestnut	Quercus	prinus	22	Good	10425.55	
233	Cherry	Prunus	sp	8	Poor	590.82	
234	Hickory/Pecan	Carya	sp	19	Good	7776.08	
235	Oak-Chestnut	Quercus	prinus	16	Good	5514.34	
236	Hickory/Pecan	Carya	sp	5	Fair	984.65	
237	Hickory/Pecan	Carya	sp	9	Good	3468	
238	Hickory/Pecan	Carya	sp	8	Good	1378.59	
239	Tree of Heaven	Ailanthus	altissima	9	Good	1744.77	
240	Oak-Chestnut	Quercus	prinus	11	Good	2606.39	
241	Cherry	Prunus	sp	5	Good	775.45	
242	Hickory/Pecan	Carya	sp	11	Good	2606.39	
243	Hickory/Pecan	Carya	sp	4	Good	344.65	
244	Oak-White	Quercus	alba	9	Good	1744.77	
245	Hickory/Pecan	Carya	sp	6	Good	1313.96	
246	Hickory/Pecan	Carya	sp	8	Good	1378.59	
247	Cherry	Prunus	sp	15	Good	4846.59	
248	Cherry	Prunus	sp	7	Poor	452.35	
249	Cherry	Prunus	sp	13	Good	3640.33	
250	Cherry	Prunus	sp	17	Good	6225.18	
251	Sassafras-Common	Sassafras	albidum	15	Good	4846.59	
252	Sassafras-Common	Sassafras	albidum	16	Good	5514.34	
253	Sassafras-Common	Sassafras	albidum	16	Good	5514.34	
254	Maple-Red	Acer	rubrum	5	Good	538.51	
255	Sassafras-Common	Sassafras	albidum	17	Good	6225.18	
256	Tree of Heaven	Ailanthus	altissima	11	Good	2606.39	
257	Tree of Heaven	Ailanthus	altissima	4	Good	344.65	
258	Sassafras-Common	Sassafras	albidum	16	Good	5514.34	
259	Maple-Red	Acer	rubrum	5	Good	538.51	
260	Maple-Sugar	Acer	saccharum	10	Fair	1538.6	
261	Maple-Sugar	Acer	saccharum	7	Good	1055.48	
262	Maple-Sugar	Acer	saccharum	9	Good	1744.77	
263	Oak-Northern Red	Quercus	rubra	19	Good	7776.08	
264	Hickory/Pecan	Carya	sp	19	Good	7776.08	
265	Hickory/Pecan	Carya	sp	19	Good	7776.08	
266	Hickory/Pecan	Carya	sp	9	Good	1744.77	
267	Oak-Chestnut	Quercus	prinus	25	Good	13462.75	
268	Oak-Northern Red	Quercus	rubra	20	Good	8616.16	
269	Locust-Black	Robinia	pseudoacacia	30	Good	19386.36	
270	Locust-Black	Robinia	pseudoacacia	11	Good	4221.92	
271	Locust-Black	Robinia	pseudoacacia	22	Good	10425.55	
272	Maple-Red	Acer	rubrum	8	Good	1378.59	
273	Tuliptree	Liriodendron	tulipifera	18	Poor	2991.04	
274	Tuliptree	Liriodendron	tulipifera	15	Good	4846.59	
275	Birch-River	Betula	nigra	12	Good	4480.4	
276	Hickory/Pecan	Carya	sp	21	Good	9499.32	
277	Hickory/Pecan	Carya	sp	11	Poor	1117.02	
278	Oak-Black	Quercus	velutina	12	Fair	2215.58	
279	Tuliptree	Liriodendron	tulipifera	10	Fair	2461.36	
280	Maple-Red	Acer	rubrum	13	Good	3640.33	
281	Tuliptree	Liriodendron	tulipifera	5	Poor	747.76	
282	Sassafras-Common	Sassafras	albidum	5	Poor	230.79	
283	Tree of Heaven	Ailanthus	altissima	10	Fair	1538.6	
284	Sassafras-Common	Sassafras	albidum	8	Poor	590.82	
285	Hickory-Shagbark	Carya	ovata	8	Good	1378.59	
286	Hickory/Pecan	Carya	sp	4	Fair	246.18	
287	Oak-Northern Red	Quercus	rubra	12	Good	2215.58	
288	Hickory/Pecan	Carya	sp	5	Good	538.51	
289	Hickory/Pecan	Carya	sp	9	Fair	1246.27	
290	Hickory/Pecan	Carya	sp	5	Good	538.51	
291	Hickory-Shagbark	Carya	ovata	10	Good	2154.04	
292	Oak-Black	Quercus	velutina	8	Good	1378.59	
293	Oak-Black	Quercus	velutina	14	Good	8413.84	
294	Hickory/Pecan	Carya	sp	23	Good	11394.87	
295	Hickory/Pecan	Carya	sp	6	Good	775.45	
296	Hickory/Pecan	Carya	sp	8	Good	1378.59	
297	Maple-Norway	Acer	platanoides	12	Dead	0	
298	Hickory/Pecan	Carya	sp	5	Good	538.51	
299	Hickory/Pecan	Carya	sp	7	Fair	753.91	
300	Hickory-Shagbark	Carya	ovata	5	Good	538.51	
301	Hickory-Shagbark	Carya	ovata	5	Good	538.51	
302	Oak-Northern Red	Quercus	rubra	9	Good	1744.77	
303	Hickory/Pecan	Carya	sp	7	Good	1055.48	
304	Oak-Northern Red	Quercus	rubra	16	Good	5514.34	
305	Hickory/Pecan	Carya	sp	6	Good	1744.77	
306	Hickory-Shagbark	Carya	ovata	5	Good	538.51	
307	Oak-Northern Red	Quercus	rubra	19	Good	15552.17	
308	Hickory-Shagbark	Carya	ovata	4	Good	344.65	
309	Hickory/Pecan	Carya	sp	5	Good	538.51	
310	Cherry	Prunus	sp	6	Fair	553.9	
311	Sassafras-Common	Sassafras	albidum	6	Dead	0	
312	Sassafras-Common	Sassafras	albidum	5	Dead	0	
313	Oak-Black	Quercus	velutina	26	Poor	6240.56	
314	Hickory/Pecan	Carya	sp	5	Good	538.51	
315	Oak-Northern Red	Quercus	rubra	13	Fair	2609.23	
316	Oak-Northern Red	Quercus	rubra	15	Good	4846.59	
317	Oak-Chestnut	Quercus	prinus	8	Good	1378.59	
318	Hickory/Pecan	Carya	sp	21	Good	9499.32	
319	Oak-Chestnut	Quercus	prinus	16	Good	5514.34	
320	Hickory/Pecan	Carya	sp	7	Good	1055.48	
321	Hickory/Pecan	Carya	sp	4	Good	344.65	
322	Oak-Chestnut	Quercus	prinus	15	Good	4846.59	
323	Oak-Northern Red	Quercus	rubra	23	Good	13548.91	
324	Oak-Chestnut	Quercus	prinus	11	Good	2606.39	
325	Oak-Chestnut	Quercus	prinus	10	Good	2154.04	
326	Oak-Chestnut	Quercus	prinus	20	Good	8616.16	
327	Oak-Chestnut	Quercus	prinus	19	Good	7776.08	
328	Oak-Chestnut	Quercus	prinus	21	Good	9499.32	
329	Hickory/Pecan	Carya	sp	8	Good	1378.59	
330	Hickory/Pecan	Carya	sp	11	Good	2606.39	
331	Oak-Northern Red	Quercus	rubra	13	Good	2609.23	
332	Hickory/Pecan	Carya	sp	13	Good	3640.33	
333	Hickory/Pecan	Carya	sp	8	Good	1378.59	
334	Hickory/Pecan	Carya	sp	8	Good	1378.59	
335	Hickory/Pecan	Carya	sp	8	Good	1378.59	
336	Ash-White	Fraxinus	americana	17	Dead	0	
337	Hickory-Shagbark	Carya	ovata	17	Dead	0	
338	Oak-Northern Red	Quercus	rubra	20	Good	8616.16	
339	Maple-Sugar	Acer	saccharum	20	Good	8616.16	
340	Maple-Sugar	Acer	saccharum	13	Good	3640.33	
341	Oak-Northern Red	Quercus	rubra	32	Good	21610.65	
342	Oak-Northern Red	Quercus	rubra	9	Good	1744.77	
343	Birch-River	Betula	nigra	18	Dead	0	
344	Cherry	Prunus	sp	7	Poor	452.35	
345	Oak-Northern Red	Quercus	rubra	33	Fair	16387.67	
346	Hickory/Pecan	Carya	sp	6	Good	775.45	
347	Sassafras-Common	Sassafras	albidum	4	Poor	147.71	
348	Hickory/Pecan	Carya	sp	5	Good	538.51	
349	Locust-Black	Robinia	pseudoacacia	7	Good	344.65	
350	Hickory/Pecan	Carya	sp	5	Good	538.51	
351	Sassafras-Common	Sassafras	albidum	13	Fair	2909.21	
352	Cherry	Prunus	sp	12	Good	3101.82	
353	Hickory/Pecan	Carya	sp	16	Good	5514.34	
354	Sassafras-Common	Sassafras	albidum	7	Fair	753.91	
355	Sassafras-Common	Sassafras	albidum	5	Good	538.51	
356	Cherry-Black	Prunus	serotina	21	Fair	6789.23	
357	Maple-Norway	Acer	platanoides	11	Poor	1117.02	
358	Oak-Northern Red	Quercus	rubra	12	Good	3101.82	
359	Hickory/Pecan	Carya	sp	10	Good	2154.04	
360	Maple-Norway	Acer	platanoides	13	Good	3640.33	
361	Oak-Northern Red	Quercus	rubra	28	Good	16887.67	
362	Dogwood-Flowering	Cornus	florida	5	Fair	538.51	
363	Cherry	Prunus	sp	6	Fair	553.9	
364	Cherry	Prunus	sp	6	Good	775.45	
365	Oak-Northern Red	Quercus	rubra	16	Good	5514.34	
366	Cherry	Prunus	sp	5	Fair	384.65	
367	Cherry	Prunus	sp	4	Fair	246.18	
368	Birch-River	Betula	nigra	5	Good	538.51	
369	Hickory/Pecan	Carya	sp	6	Good	775.45	
370	Hickory/Pecan	Carya	sp	5	Good	538.51	
371	Oak-Northern Red	Quercus	rubra	19	Good	7776.08	
372	Hickory/Pecan	Carya	sp	6	Good	775.45	
373	Cherry	Prunus	sp	9	Good	1744.77	
374	Oak-Northern Red	Quercus	rubra	17	Good	6225.18	
375	Cherry	Prunus	sp	7	Good	1055.48	
376	Oak-Northern Red	Quercus	rubra	21	Good	9499.32	
377	Oak-Northern Red	Quercus	rubra	18	Good	6979.09	
378	Cherry	Prunus	sp	7	Good	1055.48	
379	Hickory/Pecan	Carya	sp	7	Good	1055.48	
380	Hickory/Pecan	Carya	sp	4	Good	344.65	
381	Cherry	Prunus	sp	8	Good	1378.59	
382	Oak-Northern Red	Quercus	rubra	12	Good	3101.82	
383	Oak-Northern Red	Quercus	rubra	6	Good	775.45	
384	Oak-Northern Red	Quercus	rubra	26	Good	14561.31	
385	Hickory/Pecan	Carya	sp	5	Good	538.51	
386	Hickory/Pecan	Carya	sp	5	Good	538.51	
387	Maple-Norway	Acer	platanoides	11	Good	2606.39	
388	Ash-White	Fraxinus	americana	4	Poor	147.71	
389	Hickory/Pecan	Carya	sp	12	Good	3640.33	
390	Cherry	Prunus	sp	8	Good	1378.59	
391	Tree of Heaven	Ailanthus	altissima	4	Good	344.65	
392	Tree of Heaven	Ailanthus	altissima	10	Good	2154.04	
393	Tree of Heaven	Ailanthus	altissima	10	Good	2154.04	
394	Hickory/Pecan	Carya	sp	6	Good	775.45	
395	Hickory-Shagbark	Carya	ovata	7	Good	1055.48	
396	Oak-Northern Red	Quercus	rubra	11	Good	2606.39	
397	Tree of Heaven	Ailanthus	altissima	11	Good	2606.39	
398	Tree of Heaven	Ailanthus	altissima	6	Good	775.45	
399	Tree of Heaven	Ailanthus	altissima	12	Poor	1329.35	
400	Oak-Chestnut	Quercus	prinus	22	Good	10425.55	

Tree ID	Common Name	Genus	Species	DBH	Condition Class	Tree Asset Value	STATUS
401	Tree of Heaven	Ailanthus	altissima	5	Fair	384.65	
402	Cherry	Prunus	sp	8	Good	1378.59	
403	Cherry	Prunus	sp	6	Good	775.45	
404	Sassafras-Common	Sassafras	albidum	11	Fair	1861.71	
405	Tuliptree	Liriodendron	tulipifera	21	Good	9499.32	
406	Maple-Norway	Acer	platanoides	15	Good	4846.59	
407	Maple-Sugar	Acer	saccharum	4	Good	576.97	
408	Oak-Northern Red	Quercus	rubra	23	Good	11394.87	
409	Hickory/Pecan	Carya	sp	20	Good	8616.16	
410	Oak-Chestnut	Quercus	prinus	17	Good	6225.18	
411	Birch-River	Betula	nigra	16	Good	5514.34	
412	Oak-Chestnut	Quercus	prinus	10	Good	2154.04	
413	Hickory-Shagbark	Carya	ovata	13	Good	3640.33	
414	Hackberry	Celtis	occidentalis	9	Good	1744.77	
415	Hickory/Pecan	Carya	sp	13	Good	3640.33	
416	Hickory-Shagbark	Carya	ovata	16	Good	2154.04	
417	Oak-Northern Red	Quercus	rubra	18	Good	6979.09	
418	Maple-Red	Acer	rubrum	8	Good	1464.75	
419	Oak-Chestnut	Quercus	prinus	20

N/F ARROWCREST HOMEOWNERS ASSOC.

N/F DENNIS

N/F DOUGLAS

N/F REILLY

N/F GEORGIANNA

N/F MCNATTY

N/F HUDSON NATIONAL GOLF CLUB, INC.

PROPOSED LOT 1
544,366 S.F.
12.496 ACRES

LOT 2
123,816 s.f. (2.84 ac.)

PRICKLY PEAR HILL RD.

PROPOSED DISTURBANCE LINE

TEMPORARY DIVERSION

SILT FENCE

SOIL STABILIZATION AREA

HAYBALES

FLOW

ANTI-TRACK PAD(S)

TEMP SEDIMENT BASIN VOL.@ 321= 3769 C.F.

TEMP. SOIL STOCK PILE

INV. 320±

INV. 330±

15" CMP @ 1.0% 130 L.F.

6" BLEED PIPE INV. 318.0

PROPOSED 1.5 FT. WEIR OUTLET WITH LEVEL SPREADER

6" BLEED PIPE

NOTE: DURING CONSTRUCTION 6" BLEED PIPES WILL BE CLOSED OFF

REGRADE TOP OF SLOPE AREA

PROPOSED 6" BLEED PIPE WITH LEVEL SPREADER

REFERENCE IS MADE TO THE MAINTENANCE SITE PLAN FOR HUDSON NATIONAL GOLF CLUB

NOTE: EX. HYDRANT AND CULVERT TO BE PROTECTED DURING CONSTRUCTION

EXISTING BUILDING EQUIPMENT/MATERIALS STORAGE

PROPOSED HEDGE

TEMPORARY SEDIMENT TRAP VOL.@ 367= 4258 C.F.

TEMPORARY SEDIMENT TRAP VOL.@ 369= 2255 C.F.

Overhead multiple conductor DC Cable

EX. UTILITY POLE W/TRANSFORMER

PROPOSED UTILITY EASEMENT

Future Energy Storage Area 10'X24'

6'X22'X8' electrical distribution and inverter pad

Proposed evergreen screening

Note: Utilize 4KV underground conduit & communication conduit from last utility pole to ConEd transformer

(2) New utility poles installed by Matrix per ConEd contruction specifications.

7'X8'X8" transformer pad for ConEd installed transformer. Located 12 ft. from last pole per ConEd spec.

RAIN GARDEN

INLET PROTECTION

ANTI-TRACK PAD

120 FT. MINIMUM ACTIVITY SETBACK

20 FT. PROHIBITED BUFFER LINE

WETLAND LINE

100 YR. FLOOD EL. 372.77

100 FT.

EXISTING RESIDENCE

STONE MASONRY RET. WALL

PLANTING PLAN

GRAVEL

CL CONST. TRAILER

EDGE OF ASPH.

AREA U/C

SEE PLAN VIEW FOR BASIN DIMENSIONS

OFF-DAM EMERGENCY SPILLWAY CREST ELEV=321.0

TOP WIDTH 6.0'

TOP ELEV.=322.0

MAXIMUM DRAINAGE AREA = 100 ACRES

6" BLEED PIPE FOR DET. BASIN

ELEV: 318.0

NOTE: DURING CONSTRUCTION 6" BLEED PIPES WILL BE CLOSED OFF

CUTOFF TRENCH 4.0'MIN.

2.0' MIN.

STABILIZED OUTLET

LENGTH=10'
WIDTH=14'

PRINCIPAL SPILLWAY PROFILE

ELEVATION OF TOP OF DAM: 322.0

FLOOD POOL

FREEBOARD: 1.0'

APPROACH CHANNEL SLOPE: 1 ON 2

6'

SLOPE: 1 ON 2

LEVEL SECTION

EXIT SECTION

PROFILE ALONG ℄ OF SPILLWAY

3 1 BOTTOM WIDTH 1.5' 3 MIN. 1

CROSS SECTION AT CONTROL SECTION

SEDIMENT BASIN
N.T.S.

0 25 50 100
SCALE IN FEET

LEGEND

- SOLAR PANEL CONSISTING OF SUB-ARRAY OF 20 MODULES
- L.S. — PROPOSED LEVEL SPREADER
- HAYBALES
- SILT FENCE
- TEMPORARY SEDIMENT TRAP/BASIN
- ANTI-TRACK PAD
- TEMP. SOIL STOCKPILE — TEMPORARY SOIL STOCKPILE W/ SILT FENCE SURROUND

RALPH G. MASTROMONACO, P.E., P.C.
Consulting Engineers
13 Dove Court, Croton-on-Hudson, New York 10520
(914) 271-4762 (914) 271-2820 Fax

STATE OF NEW YORK — RALPH GEORGE MASTROMONACO — No. 054498 — PROFESSIONAL ENGINEER

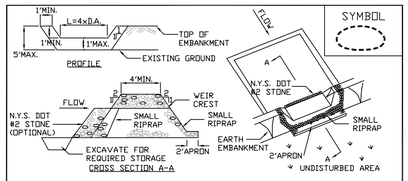
EROSION CONTROL PLAN SOLAR ARRAY SYSTEM

PREPARED FOR
HUDSON NATIONAL GOLF CLUB
VILLAGE OF CROTON-ON-HUDSON
TOWN OF CORTLANDT
WESTCHESTER COUNTY, NY
JULY 2, 2020

SHEET 6 OF 7 SHEETS

REVISED: 11/22/2021
REVISED: 11/16/2021
REVISED: 11/9/2021
REVISED: 11/5/2021
REVISED: 10/14/2021
REVISED: 10/11/2021
REVISED: 4/30/2021
REVISED: 4/22/2021
REVISED: 4/7/2021
REVISED: 3/31/2021
REVISED: 3/18/2021
REVISED: 3/15/2021
REVISED: 2/15/2021
REVISED: 1/15/2021
REVISED: 12/17/2020
REVISED: 10/19/2020
REVISED: 10/15/2020

Unauthorized alterations or additions to this drawing is a violation of Section 7209 (2) of the New York State Education Law.



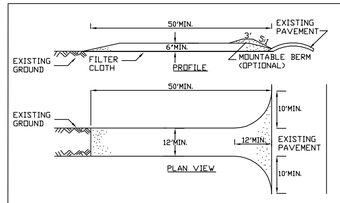
OPTION: A ONE FOOT LAYER OF N.Y.S. DOT #2 STONE MAY BE PLACED ON THE UPSTREAM SIDE OF THE RIPRAP INPLACE OF THE EMBEDDED FILTER CLOTH.

CONSTRUCTION SPECIFICATIONS

1. AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS AND OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
3. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
4. THE STONE USED IN THE OUTLET SHALL BE RIPRAP 4"-8" ALONG WITH A 1' THICKNESS OF 2" AGGREGATE PLACED ON THE UP-GRADE SIDE ON THE SMALL RIPRAP OR EMBEDDED FILTER CLOTH IN THE RIPRAP.
5. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP.
6. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
7. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.
8. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

MAXIMUM DRAINAGE AREA 5 ACRES

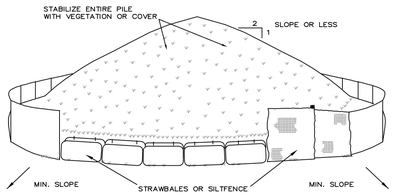
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE	STONE OUTLET SEDIMENT TRAP ST-1V



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE	STABILIZED CONSTRUCTION ENTRANCE



TO BE USED WHERE TOPSOIL PRESERVATION IS NECESSARY FOR REGRADING AND VEGETATING DISTURBED AREAS. TOPSOIL IS APPLIED TO SUBSOILS THAT ARE DROUGHTY (HAVING LOW AVAILABLE MOISTURE FOR PLANTS), STONY, SALTY, HAVE LOW PERMEABILITY, OR ARE EXTREMELY ACID. IT IS ALSO USED TO BACKFILL AROUND SHRUB AND TREE TRANSPLANTS. PRESERVATION OF EXISTING TOPSOIL IS BENEFICIAL FOR ALL TYPES OF LAWN OR ORNAMENTAL PLANTINGS.

TEMPORARY STOCKPILE STABILIZATION MEASURES INCLUDE VEGETATIVE COVER, MULCH, NON-VEGETATIVE COVER, AND PERIPHERAL SEDIMENT TRAPPING BARRIERS. THE STABILIZATION MEASURE(S) SELECTED SHOULD BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, AND REQUIRED DURATION OF USE.

SEE EROSION CONTROL PLAN FOR LOCATIONS.

INSTALLATION NOTES

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED.

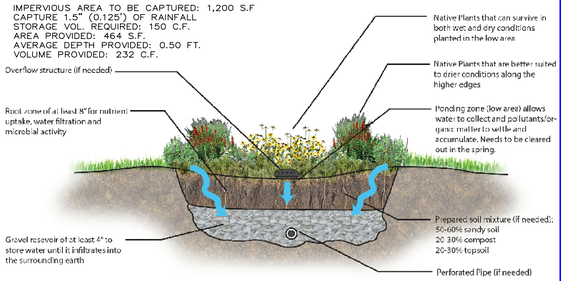
SOIL STOCKPILING
N.T.S.

STORMWATER DEVICE MAINTENANCE SCHEDULE						NOTE: SIGNIFICANT RAINFALL=2" OR MORE		
						PRIOR TO SIGNIFICANT	AFTER SIGNIFICANT	
TEMPORARY-DURING CONSTRUCTION	DAILY	WEEKLY	MONTHLY	BI-ANNUALLY	ANNUALLY	RAINFALL	RAINFALL	SPECIAL
HAYBALES	INSPECT		INSPECT		REPLACE	INSPECT	INSPECT/CLEAN	
SILT FENCE	INSPECT		INSPECT		INSPECT	INSPECT	INSPECT/CLEAN	**
SEDIMENT TRAP/BASIN	INSPECT		INSPECT	CLEAN		INSPECT	INSPECT	*
ANTI-TRACKING PAD	INSPECT	INSPECT		RESTORE			INSPECT	
CATCH BASINS	INSPECT	INSPECT					INSPECT	
HAYBALES AROUND CATCH BASINS	INSPECT		INSPECT	REPLACE		INSPECT	INSPECT/CLEAN	
PERMANENT-AFTER CONSTRUCTION								
CATCH BASINS				CLEAN			INSPECT	
DETENTION BASIN (SED. BASIN)				INSPECT	CLEAN		INSPECT	
RAIN GARDEN			INSPECT		CLEAN		INSPECT	

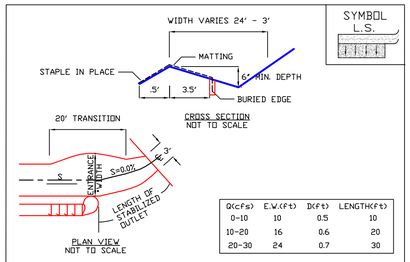
* REMOVE SEDIMENT AFTER 50% OF THE AVAILABLE CAPACITY HAS BEEN EXCEEDED.
** SEDIMENT MUST BE REMOVED WHEN BULGES IN THE FENCE DEVELOP.

RAIN GARDEN DESIGN:

IMPERVIOUS AREA TO BE CAPTURED: 1,200 S.F
CAPTURE 1.5" (0.125") OF RAINFALL
STORAGE VOL. REQUIRED: 150 C.F.
AREA PROVIDED: 464 S.F.
AVERAGE DEPTH PROVIDED: 0.50 FT.
VOLUME PROVIDED: 232 C.F.



TYPICAL RAIN GARDEN
N.T.S.

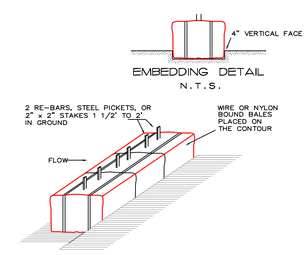


Q(cfs)	E.W.(ft)	D(ft)	LENGTH(ft)
0-10	10	0.5	10
10-20	16	0.6	20
20-30	24	0.7	30

CONSTRUCTION SPECIFICATIONS

1. THE MATTING SHOULD BE A MINIMUM OF 4FT. WIDE EXTENDING 6 INCHES OVER THE LIP AND BURIED 6 INCHES DEEP IN A VERTICAL TRENCH ON THE LOWER EDGE. THE UPPER EDGE SHOULD BUTT AGAINST SMOOTHLY CUT SOD AND BE SECURELY HELD IN PLACE WITH CLOSELY SPACED HEAVY DUTY WIRE STAPLES AT LEAST 12 INCHES IN LENGTH.
2. ENSURE THAT THE LIP IS LEVEL TO UNIFORMLY SPREAD DISCHARGE.
3. THE LIP SHALL BE CONSTRUCTED ON UNDISTURBED SOIL NOT FILL.
4. A 20 FOOT TRANSITION SECTION WILL BE CONSTRUCTED FROM THE DIVERSION CHANNEL TO THE SPREADER TO SMOOTHLY BLEND THE DIFFERENT DIMENSION AND GRADES.
5. THE RUNOFF DISCHARGE WILL BE OUTLETED ONTO A STABILIZED VEGETATED SLOPE NOT EXCEEDING 10%.
6. SEED AND MULCH THE DISTURBED AREA IMMEDIATELY AFTER CONSTRUCTION.

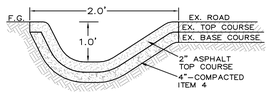
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE	LEVEL SPREADER



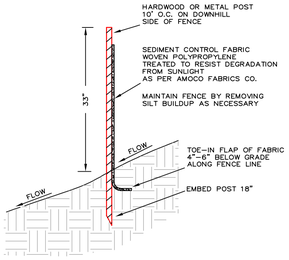
CONSTRUCTION SPECIFICATIONS

1. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4".
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR REBARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

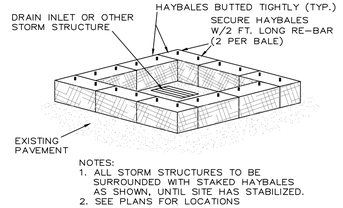
HAYBALE DIKE
N.T.S.



PAVED GUTTER
N.T.S.

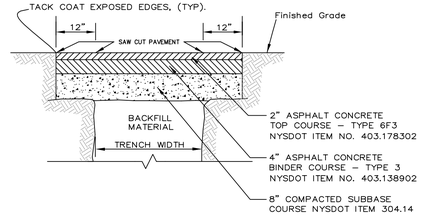


SILT FENCE
N.T.S.



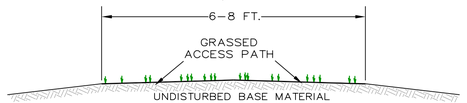
NOTES:
1. ALL STORM STRUCTURES TO BE SURROUNDED WITH STAKED HAYBALES AS SHOWN, UNTIL SITE HAS STABILIZED.
2. SEE PLANS FOR LOCATIONS

INLET PROTECTION FOR EXISTING DRAIN INLET
N.T.S.



PAVEMENT REPLACEMENT DETAIL
N.T.S.

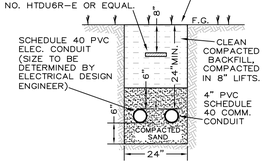
NOTE: POST CONSTRUCTION - PATHS UTILIZED BY INSTALLATION EQUIPMENT TO BE SEEDED WITH DROUGHT RESISTANT, LOW GROWING GRASS (DWARF FESCUE MIX OR SIMILAR)



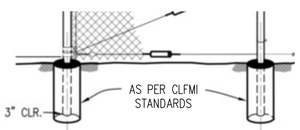
GRASSED ACCESS PATH
N.T.S.

HAZARDOUS UNDERGROUND MARKING TAPE LABELED "CAUTION ELECTRIC LINE BURIED BELOW". TAPE SHALL BE 6" WIDE WITH BLACK LETTERING ON A RED BACKGROUND WITH DETECTABLE ALUMINUM FOIL LAMINATE, AS MANUFACTURED BY PANDUIT PART NO. HTDU6R-E OR EQUAL

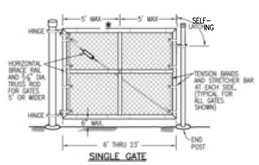
IN LAWN AREAS - 6" TOPSOIL, GRADE AND SEED
IN ROADWAY AREAS - MATCH BASE/TOP COURSE OF EXISTING PAVEMENT (SEE PAVEMENT REPLACEMENT DETAIL)

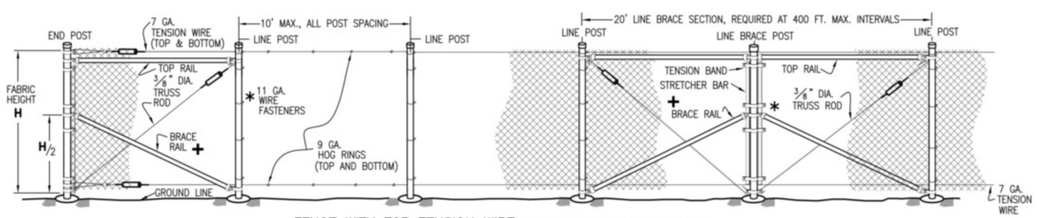


ELECTRICAL SERVICE TRENCH BEDDING DETAIL
N.T.S

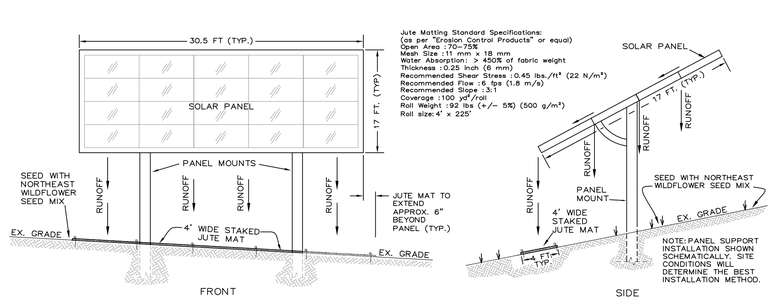


NOTES:
1. CONCRETE OR COMPACTED GRAVEL BASES TO BE UTILIZED IN AREAS OF COMPLIANT SOIL CONDITIONS. LINE POSTS IN ROCK TO BE GROUTED INTO PRE-DRILLED HOLES APPROXIMATELY EQUAL TO THE POST DIAMETER.
2. FENCING WILL BE INSTALLED PER THE "CHAIN LINK FENCING MANUFACTURING INDUSTRY" (CLFMI) STANDARDS/SPECIFCATIONS.





FENCE WITH TOP TENSION WIRE (USE FOR STANDARD CHAIN LINK FENCE)



Jute Matting Standard Specifications:
(as per "Erosion Control Products" or equal)
Open Area : 70-75%
Mesh Size : 11 mm x 18 mm
Water Absorption: > 450% of fabric weight
Thickness : 0.25 inch (6 mm)
Recommended Shear Stress : 0.45 lbs./ft² (22 N/m²)
Recommended Flow : 6 fps (1.8 m/s)
Recommended Slope : 3:1
Coverage : 100 yd²/roll
Roll Weight : 92 lbs (+/- 5%) (500 g/m²)
Roll size: 4' x 225'

STAKED JUTE MAT ANTI-SCOUR TREATMENT
(TO BE INSTALLED BELOW PANEL'S DRIP EDGE)
N.T.S.

Unauthorized alterations or additions to this drawing is a violation of Section 7209 (2) of the New York State Education Law.

REVISED: 11/9/21
REVISED: 11/5/21
REVISED: 10/11/21
REVISED: 9/21/21
REVISED: 4/7/21
REVISED: 3/31/21
REVISED: 3/18/21
REVISED: 3/11/21
REVISED: 2/15/21
REVISED: 1/15/21
REVISED: 12/14/20
REVISED: 12/3/20
REVISED: 7/7/20

GENERAL NOTES:

1. THE CONTRACTOR SHALL LOCATE AND VERIFY IN THE FIELD ALL UTILITIES - GAS, WATER, ELECTRICAL BEFORE THE START OF CONSTRUCTION. CONTRACTOR SHALL CALL CODE 753 (FORMERLY CODE 53).
2. AS BUILT PLANS SHALL BE REQUIRED AND CERTIFIED BY A N.Y. STATE LICENSED PROFESSIONAL ENGINEER OR SURVEYOR.
3. ALL PROPERTY DISTURBED IN THE R.O.W. OR ON PRIVATE LANDS, SHALL BE RESTORED TO NEW CONDITIONS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL APPLICATIONS AND PERMITS REQUIRED FOR CONSTRUCTION.
5. THE ROAD AND UTILITIES SHALL BE STAKED IN THE FIELD BY A N.Y. STATE LICENSED SURVEYOR OR ENGINEER.
6. UNDERGROUND ELECTRIC SHALL BE AS REQUIRED BY THE VILLAGE AND CON EDISON.
7. ALL DRAINAGE PIPE TO BE HDPE UNLESS OTHERWISE NOTED.
8. ALL STRUCTURES TO BE PLACED IN PAVED AREAS SHALL BE DESIGNED FOR H-20 LOADING.
9. ANY FILL IMPORTED TO THE SITE SHALL BE TESTED AND ALL RESULTS SUBMITTED TO THE VILLAGE PRIOR TO IMPORTING AND PLACING.

GENERAL EROSION CONTROL NOTES:

1. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
2. ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND PROCEDURES SHALL COMPLY WITH THE STANDARDS AND SPECIFICATIONS OF THE "WESTCHESTER COUNTY BEST MANAGEMENT MANUAL FOR CONSTRUCTION RELATED ACTIVITIES" AND THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, NOVEMBER 2016.
3. PRIOR TO ANY EXCAVATION, SILT FENCE/HAYBALES SHALL BE INSTALLED AT THE APPROPRIATE LOCATIONS NOTED ON EROSION CONTROL PLAN. SILT FENCING SHALL BE INSTALLED AS DIRECTED BY THE OWNER'S REPRESENTATIVE IN THE FIELD AND INSTALLED AS PER THE INSTRUCTIONS OF THE MANUFACTURER. ADDITIONAL SILT FENCE MAY BE PLACED BY THE OWNER'S REPRESENTATIVE IN THE FIELD. SILT FENCING SHALL BE MAINTAINED IN DEPENDABLE CONDITION AND SHALL NOT BE REMOVED UNTIL DISTURBED AREAS ARE THOROUGHLY STABILIZED.
4. IMMEDIATELY TOPSOIL & SEED WITH A MIXTURE OF PERENNIAL RYE GRASS, ANNUAL RYE GRASS AND WINTER RYE AND MULCH WITH 2" OF HAY ALL FINISHED SLOPES AND ALL ROUGH CUT SLOPES TO REMAIN OPEN FOR 14 DAYS OR MORE.
5. ALL SLOPES CONSTRUCTED WITH FILL MATERIAL AND ALL SLOPES WITH GRADE 3:1 OR STEEPER SHALL BE TOPSOILED, SEEDED, MULCHED AND STABILIZED WITH STAKED JUTE MAT, "EROSION CONTROL PRODUCTS" OR EQUAL, (SEE "STAKED JUTE MAT ANTI-SCOUR TREATMENT" DETAIL FOR SPECS.)
6. ALL AREAS OF DISTURBED SOIL SHALL BE STABILIZED. IN ADDITION TO ALL SPECIFIED AND LOCATED EROSION CONTROL DEVICES, THE CONTRACTOR SHALL TAKE ALL STEPS PRUDENT AND NECESSARY TO STABILIZE THE SITE AT ALL TIMES.
7. DO NOT STOCKPILE MATERIALS ON STEEP SLOPES, IN DRAINAGE SWALES OR IN WETLAND AREAS. SURROUND ALL STOCKPILE AREAS WITH STAKED HAYBALES OR SILT SCREEN MATERIALS.
8. ALL CATCHBASINS ARE TO BE PROTECTED WITH INLET PROTECTION THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED.
9. UTILITY LINE EXCAVATED MATERIAL SHALL BE TEMPORARILY STOCKPILED ON HIGH SIDE OF EXCAVATION SO RUNOFF IS DIRECTED AWAY FROM TRENCH. AFTER BACK-FILLING, AREA IS TO BE TOPSOILED, SEEDED AND MULCHED.
10. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
11. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER. SEDIMENT SHALL BE DISPOSED OF IN A MANNER THAT DOES NOT RESULT IN ADDITIONAL EROSION OR POLLUTION.
12. BLASTING AREAS - ROCK RIPPING WILL BE USED WHEREVER POSSIBLE. BLASTING WILL OCCUR IN ACCORDANCE WITH REGULATIONS AND STANDARDS PRESCRIBED BY THE VILLAGE OF CROTON-ON-HUDSON.

SPECIAL NOTES:

1. OWNERSHIP CHANGES. IF THE OWNER OR OPERATOR OF THE SOLAR ENERGY SYSTEM CHANGES OR THE OWNER OF THE PROPERTY CHANGES, THE SPECIAL USE PERMIT SHALL REMAIN IN EFFECT, PROVIDED THAT THE SUCCESSOR OWNER OR OPERATOR ASSUMES IN WRITING ALL OF THE OBLIGATIONS OF THE SPECIAL USE PERMIT, SITE PLAN APPROVAL, AND DECOMMISSIONING PLAN. A NEW OWNER OR OPERATOR OF THE SOLAR ENERGY SYSTEM SHALL NOTIFY THE ZONING ENFORCEMENT OFFICER OF SUCH CHANGE IN OWNERSHIP OR OPERATOR WITHIN 30 DAYS OF THE OWNERSHIP CHANGE.
2. SOLAR ENERGY SYSTEMS THAT HAVE BEEN ABANDONED AS REASONABLY DETERMINED BY THE BUILDING INSPECTOR FOR A PERIOD OF ONE YEAR SHALL BE REMOVED AT THE OWNER'S AND/OR OPERATOR'S EXPENSE IN ACCORDANCE WITH THE DECOMMISSIONING PLAN.
3. LIEN. IN THE EVENT OF DEFAULT OF THE OWNER OR OPERATOR IN THE PERFORMANCE OF REMOVAL OF A SOLAR ENERGY SYSTEM AND/OR COMPLYING WITH THE REQUIREMENTS OF THE DECOMMISSIONING PLAN, AFTER PROPER NOTICE, THE VILLAGE SHALL BE ENTITLED TO ARRANGE FOR REMOVAL OR DECOMMISSIONING AND RESTORATION OF THE PROPERTY IN ACCORDANCE WITH THE DECOMMISSIONING PLAN, AND THE COST OF SAME INCURRED BY THE VILLAGE SHALL CONSTITUTE A LIEN ON THE OWNER'S REAL PROPERTY.
4. SOLAR ENERGY SYSTEMS AND SOLAR ENERGY EQUIPMENT SHALL BE CERTIFIED UNDER THE APPLICABLE ELECTRICAL AND/OR BUILDING CODES AS REQUIRED.
5. SOLAR ENERGY SYSTEMS SHALL BE MAINTAINED IN GOOD WORKING ORDER AND IN ACCORDANCE WITH INDUSTRY STANDARDS. SITE ACCESS SHALL BE MAINTAINED, INCLUDING SNOW REMOVAL AT A LEVEL ACCEPTABLE TO THE LOCAL FIRE DEPARTMENT AND, IF THE TIER 3 SOLAR ENERGY SYSTEM IS LOCATED IN AN AMBULANCE DISTRICT, THE LOCAL AMBULANCE CORPS.
6. AC AND DC WIRING SHALL BE INSTALLED ABOVE AND BELOW GROUND. INSTALLATION OF ALL WIRING SHALL NOT REQUIRE REMOVAL OF ROCK, EITHER BY BLASTING OR OTHER MECHANICAL MEANS.

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DETAILS/NOTES SOLAR ARRAY SYSTEM

PREPARED FOR
HUDSON NATIONAL GOLF CLUB
VILLAGE OF CROTON-ON-HUDSON
TOWN OF CORTLANDT
WESTCHESTER COUNTY, NY
JULY 2, 2020

SHEET 7 OF 7 SHEETS