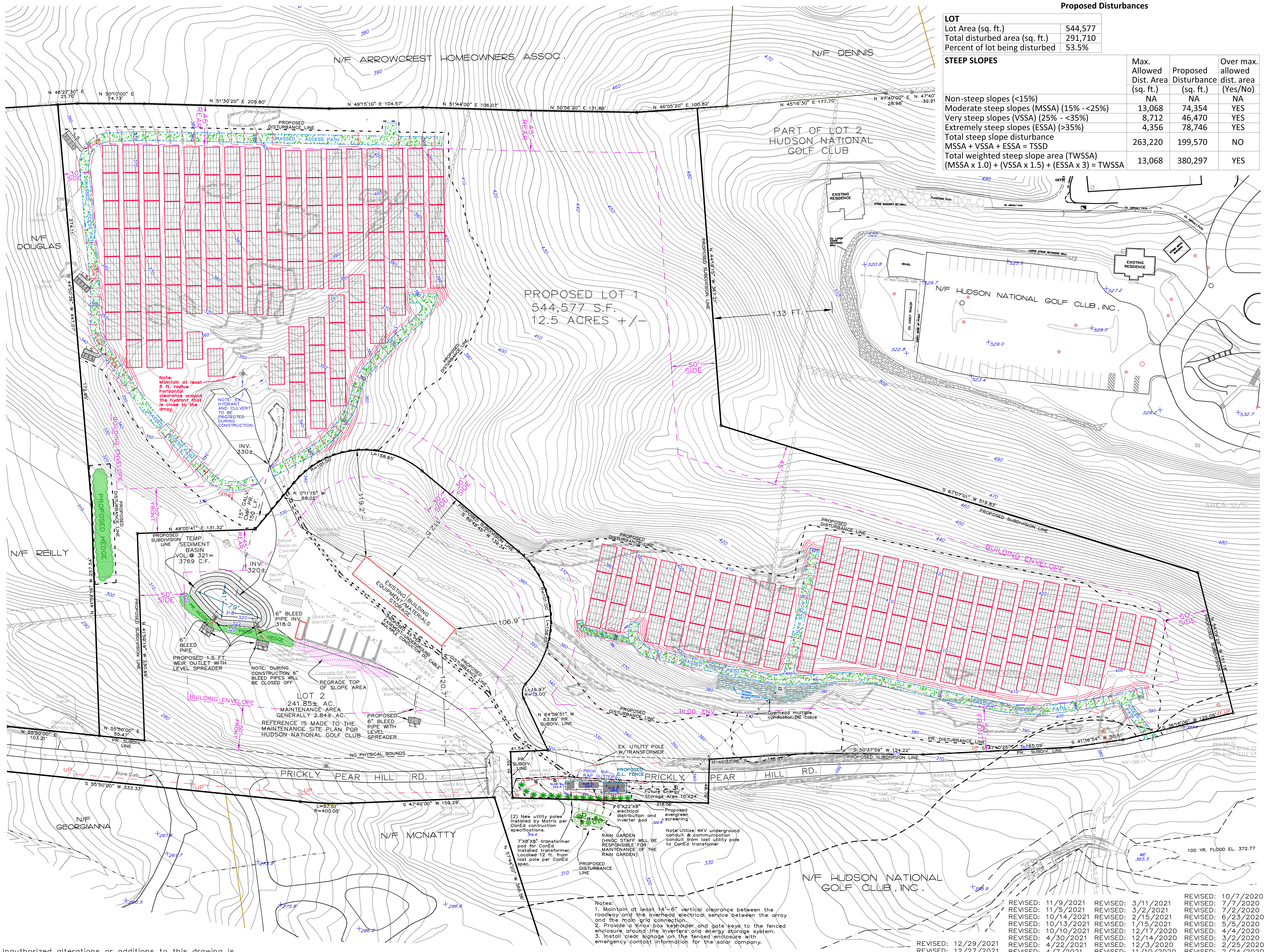
N/F ARROWCREST HOMEOWNERS' ASSOC.
N/F DENNIS
DENSE WOODS
N/F DOUGLAS
N/F REILLY
N/F GEORGIANNA
N/F MCNATTY
N/F HUDSON NATIONAL GOLF CLUB, INC.
PART OF LOT 2 HUDSON NATIONAL GOLF CLUB
PROPOSED LOT 1
544,577 S.F.
12.5 ACRES +/-
LOT 2
241.85± AC.
MAINTENANCE AREA GENERALLY 2.84± AC.
REFERENCE IS MADE TO THE MAINTENANCE SITE PLAN FOR HUDSON NATIONAL GOLF CLUB
PRICKLY PEAR HILL RD.
PROPOSED SUBDIVISION LINE
PROPOSED DISTURBANCE LINE
BUILDING ENVELOPE
GRASSED ACCESS PATH
PROPOSED HEDGE
133 FT.
45' REAR
30' SIDE
50' SIDE
50' FRONT
Note: Maintain at least 6 ft. radius horizontal clearance around the hydrant that is close to the array.
NOTE: EX. HYDRANT AND CULVERT TO BE PROTECTED DURING CONSTRUCTION.
INV. 330±
INV. 320±
15" GALV. CMP PR. 150 L.F.
TEMP. SEDIMENT BASIN VOL.@ 321= 3769 C.F.
6" BLEED PIPE INV. 318.0
6" BLEED PIPE
PROPOSED 1.5 FT. WEIR OUTLET WITH LEVEL SPREADER
NOTE: DURING CONSTRUCTION 6" BLEED PIPES WILL BE CLOSED OFF
REGRADE TOP OF SLOPE AREA
PROPOSED 6" BLEED PIPE WITH LEVEL SPREADER
EXISTING BUILDING EQUIPMENT/MATERIALS STORAGE
PROPOSED AS PER EASEMENT UNDERGROUND MULTIPLE CONDUCTOR DC CABLE
EXISTING DRIVEWAY
NO PHYSICAL BOUNDS
N 48°00'41" E 131.32'
N 41°59'19" W 230.69'
N 55°50'00" E 50.47'
S 55°50'00" W 333.33'
N 0°11'15" W 68.02'
R=101.00
L=158.65'
S 89°48'45" W 139.34'
S 67°07'01" E 519.83'
N 64°59'51" W 63.89' PR. SUBDIV. LINE
L=16.97'
R=25.00'
41.54'
51.35'
48.79'
218.06'
N 57°44'20" W 366.56'
S 47°40'00" W 159.29'
L=57.01'
R=400.00'
S 50°37'59" W 124.22'
EX. UTILITY POLE W/TRANSFORMER
PROP. RIP RAP GUTTER
PROPOSED C.L. FENCE
SLAB EL. 322.5
SLAB EL. 324.5
SLAB EL. 326.5
Future Energy Storage Area 10'X24'
6'X22'X8" electrical distribution and inverter pad
Proposed evergreen screening
(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 (HNGC STAFF WILL BE RESPONSIBLE FOR MAINTENANCE OF THE RAIN GARDEN)
Note: Utilize 4KV underground conduit & communication conduit from last utility pole to ConEd transfomer
STONE REINFORCED SLOPE
Overhead multiple conductor DC cable
BLDG. ENV.
PR. DISTURBANCE LINE
100 YR. FLOOD EL. 372.77
OLD DAM
EXISTING RESIDENCE
N/F HUDSON NATIONAL GOLF CLUB, INC.

Proposed Disturbances

LOT	
Lot Area (sq. ft.)	544,577
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

Notes:
1. Maintain at least 14'-6" vertical clearance between the roadway and the overhead electrical service between the array and the main grid connection.
2. Provide a Knox box keyholder and gate keys to the fenced enclosure around the inverters and energy storage system.
3. Install clear signage on the fenced enclosure with emergency contact information for the solar company.

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REVISED: 2/24/2020
REVISED: 1/22/2020
REVISED: 10/25/2019
REVISED: 10/7/2019

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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	544,577 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
PORTION OF 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.

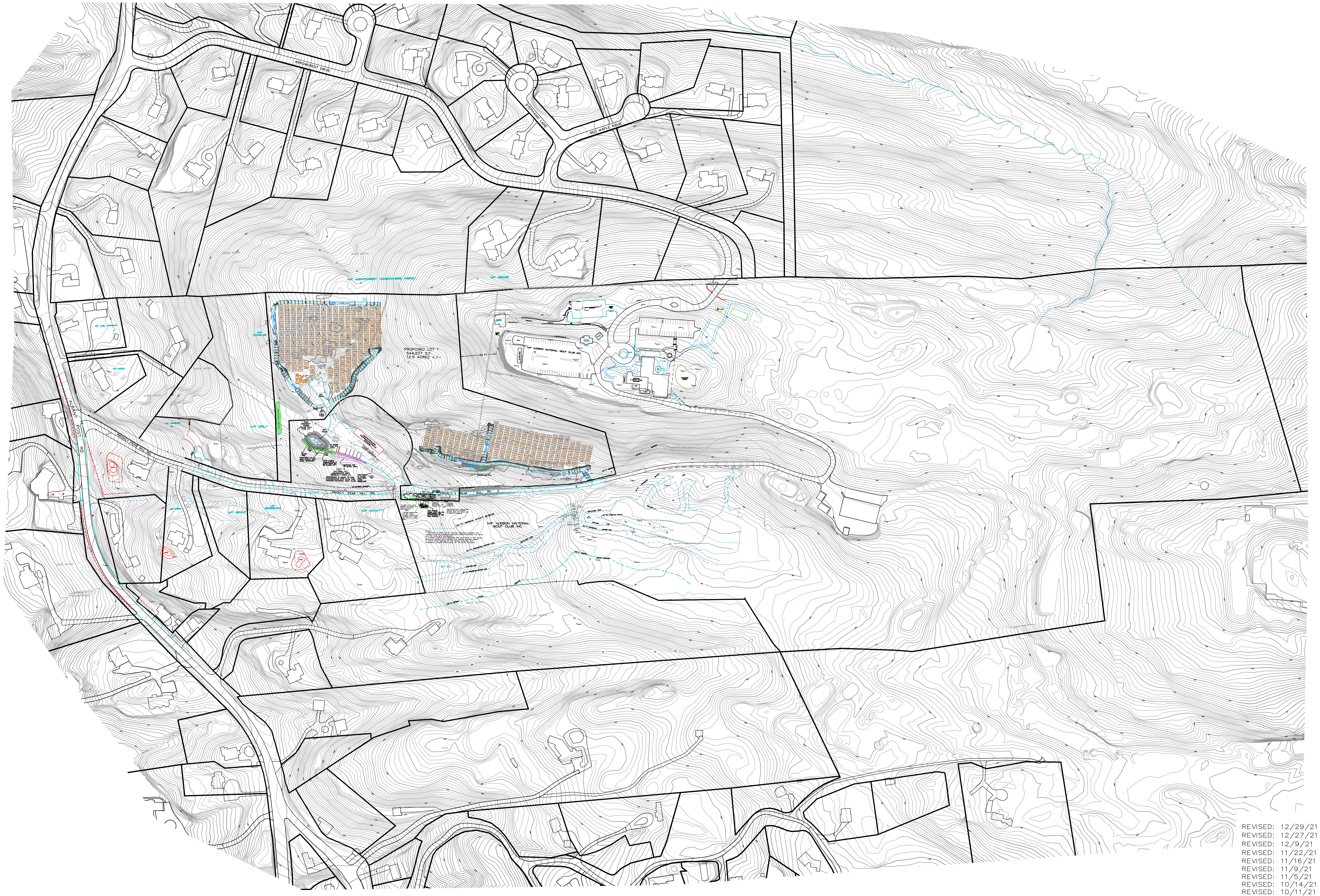
RALPH G. MASTROMONACO, P.E., P.C.
Consulting Engineers
13 Dove Court, Croton-on-Hudson, New York 10520
(914) 271-4762 (914) 271-2820 Fax

No. 054458

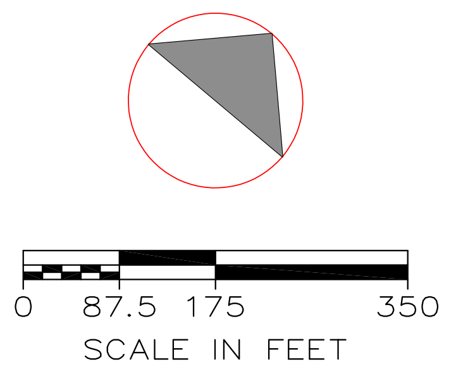
SITE PLAN
PROPOSED SUBDIVISION/ SOLAR ARRAY SYSTEM

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


ARROWCREST DRIVE
RED MAPLE ROAD
ALBANY POST RD.
PRICKLY PEAR HILL RD.
N/F ARROWCREST HOMEOWNERS ASSOC.
N/F DENNIS
N/F DOUGLAS
N/F REILLY
N/F GEORGIANNA
N/F GRANT
N/F MCNATTY
N/F HUDSON NATIONAL GOLF CLUB, INC.
PROPOSED LOT 1
544,577 S.F.
12.5 ACRES +/-
LOT 2
241.85± AC.
MAINTENANCE AREA GENERALLY 2.84± AC.
REFERENCE IS MADE TO THE MAINTENANCE SITE PLAN FOR HUDSON NATIONAL GOLF CLUB
TEMP SEDIMENT BASIN VOL.@ 321= 3769 C.F.
PROPOSED HEDGE
EXISTING BUILDING EQUIPMENT/MATERIALS STORAGE
REGRADE TOP OF SLOPE AREA
NO PHYSICAL BOUNDS
133 FT.
120 FT. MINIMUM ACTIVITY SETBACK
20 FT. PROHIBITED BUFFER LINE
WETLAND LINE
100 YR. FLOOD EL. 372.77
W-9C
W-11A
DENSE WOODS
PROP. RIP RAP GUTTER
PROPOSED C.L. FENCE
Future Energy Storage Area 10'X24'
Overhead multiple conductor DC cable
6'X22'X8" electrical distribution and inverter pad
Proposed evergreen screening
(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 (HNGC STAFF WILL BE RESPONSIBLE FOR MAINTENANCE OF THE RAIN GARDEN)
Note: Utilize 4KV underground conduit & communication conduit from last utility pole to ConEd transfomer
EXISTING 3 STORY STONE BUILDING

Notes:
1. Maintain at least 14'-6" vertical clearance between the roadway and the overhead electrical service between the array and the main grid connection.
2. Provide a Knox box keyholder and gate keys to the fenced enclosure around the inverters and energy storage system.
3. Install clear signage on the fenced enclosure with emergency contact information for the solar company.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87.5
175
350
SCALE IN FEET

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

No. 054498

Ralph Mast

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REVISED: 7/2/20
REVISED: 5/5/20

OVERALL MAP
PROPOSED SUBDIVISION/ SOLAR ARRAY SYSTEM

PREPARED FOR
HUDSON NATIONAL GOLF CLUB
VILLAGE OF CROTON-ON-HUDSON
TOWN OF CORTLANDT
WESTCHESTER COUNTY, NY
JANUARY 22, 2020

SHEET 2 OF 7 SHEETS

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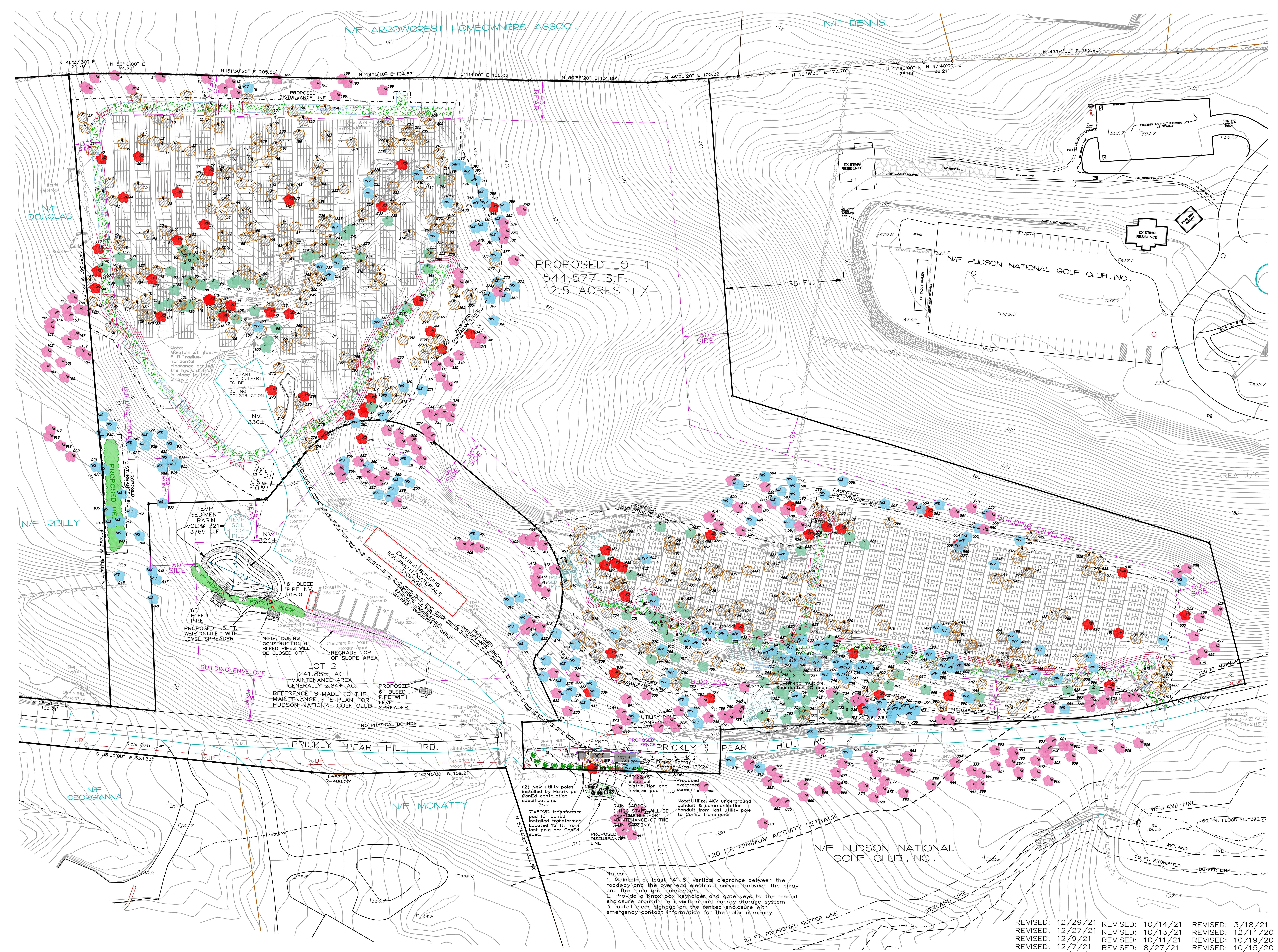
N/F ARROWCREST HOMEOWNERS ASSOC.
N/F DENNIS
N/F DOUGLAS
N/F REILLY
N/F GEORGIANNA
N/F MCNATTY
N/F HUDSON NATIONAL GOLF CLUB, INC.
N/F HUDSON NATIONAL GOLF CLUB, INC.
PROPOSED LOT 1
544,577 S.F.
12.5 ACRES +/-
LOT 2
241.85± AC.
MAINTENANCE AREA
GENERALLY 2.84± AC.
REFERENCE IS MADE TO THE MAINTENANCE SITE PLAN FOR HUDSON NATIONAL GOLF CLUB
PRICKLY PEAR HILL RD.
133 FT.
50' SIDE
30' SIDE
45' REAR
BUILDING ENVELOPE
PROPOSED DISTURBANCE LINE
EXISTING BUILDING EQUIPMENT/MATERIALS STORAGE
TEMP SEDIMENT BASIN
120 FT. MINIMUM ACTIVITY SETBACK
20 FT. PROHIBITED BUFFER LINE
WETLAND LINE
100 YR. FLOOD EL. 372.77
EXISTING RESIDENCE
EXISTING ASPHALT PARKING LOT

Notes:
1. Maintain at least 14'–6" vertical clearance between the roadway and the overhead electrical service between the array and the main grid connection.
2. Provide a Knox box keyholder and gate keys to the fenced enclosure around the inverters and energy storage system.
3. Install clear signage on the fenced enclosure with emergency contact information for the solar company.

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REVISED: 5/20/20
REVISED: 5/5/20

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0 25 50 100
SCALE IN FEET

TREE LEGEND

	CATEGORY	COUNT
R	>8" D.B.H TO BE REMOVED	384
S	SMALL <8" D.B.H. TO BE REMOVED	117
INV	INVASIVE (REMOVE)	86
	TOTAL LIVE TREES TO BE REMOVED	587
	OTHER TREES LOCATED	
XD	DEAD TO BE REMOVED	30
NI	NO IMPACT >8" D.B.H.	214
NIS	NO IMPACT <8" D.B.H.	117

NUMBERS INCLUDE ONLY AND ALL OF THOSE TREES 4" AND OVER.

LEGEND

▦	SOLAR PANEL CONSISTING OF SUB–ARRAY OF 20 MODULES
⬚	PROPOSED DISTURBANCE LINE TOTAL DISTURBANCE=6.70 AC.

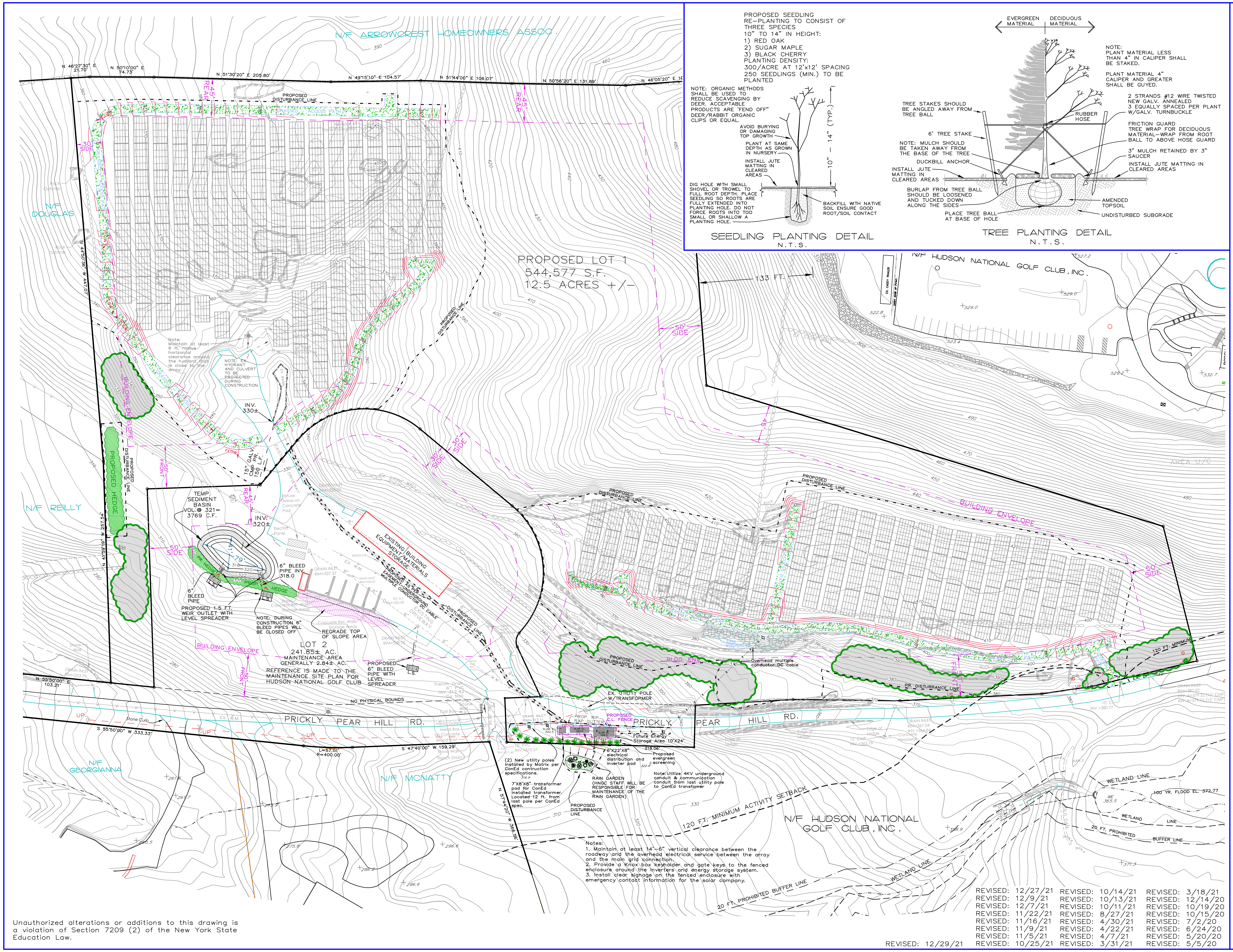
RALPH G. MASTROMONACO, P.E., P.C.
Consulting Engineers
13 Dove Court, Croton-on-Hudson, New York 10520
(914) 271-4762 (914) 271-2820 Fax

RALPH GEORGE MASTROMONACO
No. 054498

Ralph Mast

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


N/F ARROWCREST HOMEOWNERS ASSOC.
N 46°27'30" 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 106.07'
N 50°56'20" E 131.89'
N 46°05'20" E
45' REAR
30' SIDE
PROPOSED DISTURBANCE LINE
GRASSED ACCESS PATH
FLOW
Rock Outcrop
Remains of Stone Foundation
N/F DOUGLAS
N 44°50'36" W 447.07'
Note: Maintain at least 6 ft. radius horizontal clearance around the hydrant that is close to the array.
NOTE: EX. HYDRANT AND CULVERT TO BE PROTECTED DURING CONSTRUCTION.
EX. BASIN
24" CMP INV.=341.46
INV. 330±
BUILDING ENVELOPE
PROPOSED HEDGE
PROPOSED DISTURBANCE LINE
50' FRONT
15" GALV. CMP PR. 150 L.F.
EXISTING DRIVEWAY
N/F REILLY
N 41°59'19" W 257.54'
TEMP. SEDIMENT BASIN VOL.@ 321= 3769 C.F.
INV. 320±
45' REAR
50' SIDE
Refuse Areas on Concrete Pad
Electric Panel
41'
79'
PR. HEDGE
PROP. HEDGE
6" BLEED PIPE INV. 318.0
6" BLEED PIPE
L.S.
PROPOSED 1.5 FT. WEIR OUTLET WITH LEVEL SPREADER
NOTE: DURING CONSTRUCTION 6" BLEED PIPES WILL BE CLOSED OFF
REGRADE TOP OF SLOPE AREA
Shed Concrete Ret. Walls Storage Areas
EXISTING BUILDING EQUIPMENT/MATERIALS STORAGE
PROPOSED AS PER EASEMENT UNDERGROUND MULTIPLE CONDUCTOR DC CABLE
PROPOSED DISTURBANCE LINE
EX. STONE WALL
30' SIDE
DRAIN INLET RIM=328.02
DRAIN INLET RIM=327.37
DRAIN INLET RIM=326.60
EX. D.I. RIM=325.58
DRAIN INLET RIM=328.78
Metal Lid
EX. W.M.
LOT 2
241.85± AC.
MAINTENANCE AREA GENERALLY 2.84± AC.
REFERENCE IS MADE TO THE MAINTENANCE SITE PLAN FOR HUDSON NATIONAL GOLF CLUB
PROPOSED 6" BLEED PIPE WITH LEVEL SPREADER
NO PHYSICAL BOUNDS
Stone Wall
DRAIN INLET RIM=253.79
N 55°50'00" E 103.21'
S 55°50'00" W 333.33'
Stone Curb
UP
PRICKLY PEAR HILL RD.
L=57.01'
R=400.00'
S 47°40'00" W 159.29'
Trench Drain 6" PVC INV 312.42
Do Not Enter sign
Call Box
Metal Gate
Metal Box on Concrete
Wood Post
50.00' TIE
N/F GEORGIANNA
N/F MCNATTY
PROPOSED LOT 1
544,577 S.F.
12.5 ACRES +/-
PROPOSED DISTURBANCE LINE
133 FT.
N/F HUDSON NATIONAL GOLF CLUB, INC.
EX. CADDY TRAILER
EX. EDGE OF PVMT.
50' SIDE
45'
BUILDING ENVELOPE
AREA U/C
120 FT. MINIMUM
PROPOSED DISTURBANCE LINE
BLDG. ENV.
Overhead multiple conductor DC cable
PR. DISTURBANCE LINE
50' FRONT
EX. UTILITY POLE W/TRANSFORMER
DRAIN INLET RIM=317.11
PROP. RIP RAP GUTTER
PROPOSED C.L. FENCE
SLAB EL. 322.5
SLAB EL. 324.5
SLAB EL. 326.5
Future Energy Storage Area 10'X24'
218.06'
15" PVC INV.=310.51
6" PVC INV.=311.49
6'X22'X8" electrical distribution and inverter pad
Proposed evergreen screening
(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 (HNGC STAFF WILL BE RESPONSIBLE FOR MAINTENANCE OF THE RAIN GARDEN)
PROPOSED DISTURBANCE LINE
N 57°44'20" W 366.56'
120 FT. MINIMUM ACTIVITY SETBACK
N/F HUDSON NATIONAL GOLF CLUB, INC.
20 FT. PROHIBITED BUFFER LINE
WETLAND LINE
100 YR. FLOOD EL. 372.77
WETLAND LINE
20 FT. PROHIBITED BUFFER LINE
EVERGREEN MATERIAL
DECIDUOUS MATERIAL
10" – 14" (TYP.)
AVOID BURYING OR DAMAGING TOP GROWTH
PLANT AT SAME DEPTH AS GROWN IN NURSERY
INSTALL JUTE MATTING IN CLEARED AREAS
DIG HOLE WITH SMALL SHOVEL OR TROWEL TO FULL ROOT DEPTH. PLACE SEEDLING SO ROOTS ARE FULLY EXTENDED INTO PLANTING HOLE. DO NOT FORCE ROOTS INTO TOO SMALL OR SHALLOW A PLANTING HOLE.
BACKFILL WITH NATIVE SOIL ENSURE GOOD ROOT/SOIL CONTACT
TREE STAKES SHOULD BE ANGLED AWAY FROM TREE BALL
6' TREE STAKE
NOTE: MULCH SHOULD BE TAKEN AWAY FROM THE BASE OF THE TREE
DUCKBILL ANCHOR
INSTALL JUTE MATTING IN CLEARED AREAS
BURLAP FROM TREE BALL SHOULD BE LOOSENED AND TUCKED DOWN ALONG THE SIDES
PLACE TREE BALL AT BASE OF HOLE
RUBBER HOSE
2 STRANDS #12 WIRE TWISTED NEW GALV. ANNEALED 3 EQUALLY SPACED PER PLANT W/GALV. TURNBUCKLE
FRICTION GUARD TREE WRAP FOR DECIDUOUS MATERIAL–WRAP FROM ROOT BALL TO ABOVE HOSE GUARD
3" MULCH RETAINED BY 3" SAUCER
INSTALL JUTE MATTING IN CLEARED AREAS
AMENDED TOPSOIL
UNDISTURBED SUBGRADE

PROPOSED SEEDLING RE–PLANTING TO CONSIST OF THREE SPECIES 10" TO 14" IN HEIGHT:
1) RED OAK
2) SUGAR MAPLE
3) BLACK CHERRY
PLANTING DENSITY:
300/ACRE AT 12'x12' SPACING
250 SEEDLINGS (MIN.) TO BE PLANTED

NOTE: ORGANIC METHODS SHALL BE USED TO REDUCE SCAVENGING BY DEER. ACCEPTABLE PRODUCTS ARE 'FEND OFF" DEER/RABBIT ORGANIC CLIPS OR EQUAL.

SEEDLING PLANTING DETAIL
N.T.S.

NOTE:
PLANT MATERIAL LESS THAN 4" IN CALIPER SHALL BE STAKED.

PLANT MATERIAL 4" CALIPER AND GREATER SHALL BE GUYED.

TREE PLANTING DETAIL
N.T.S.

Note: Maintain at least 6 ft. radius horizontal clearance around the hydrant that is close to the array.

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

Notes:
1. Maintain at least 14'–6" vertical clearance between the roadway and the overhead electrical service between the array and the main grid connection.
2. Provide a Knox box keyholder and gate keys to the fenced enclosure around the inverters and energy storage system.
3. Install clear signage on the fenced enclosure with emergency contact information for the solar company.

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REVISED: 7/2/20
REVISED: 6/24/20
REVISED: 5/20/20
REVISED: 5/5/20

0 25 50 100
SCALE IN FEET

NOTE: AREAS UNDER AND AROUND THE PANELS TO BE SEEDED AS FOLLOWS:

SEED MIXTURE:

Northeast Solar Pollinator 3' Mix
Mix Composition:

94.9% Festuca ovina, Variety Not Stated (Sheep Fescue, Variety Not Stated)
2.5% Asclepias tuberosa (Butter y Milkweed)
2.0% Chamaecrista fasciculata, PA Ecotype (Partridge Pea, PA Ecotype)
0.3% Oenothera fruticosa var. fruticosa (Sundrops)
0.3% Tradescantia virginiana, Southeastern PA/Northern VA blend (Virginia Spiderwort, Southeastern PA/Northern VA blend)

General Product Information:
Item Number: ERNMX–612
Product Categories:
Solar Sites
Seeding Rate: Seed at 40 lb/acre with 30 lbs/acre of a cover crop. For a cover crop use either grain oats (1 Jan to 31 Jul) or grain rye (1 Aug to 31 Dec).

Ernst Conservation Seeds, Inc.
8884 Mercer Pike, Meadville PA 16335

LEGEND

▦	SOLAR PANEL CONSISTING OF SUB–ARRAY OF 20 MODULES
⬚	PROPOSED DISTURBANCE LINE TOTAL DISTURBANCE=6.70 AC.
☁	TREE RE–PLANTING AREAS

RALPH G. MASTROMONACO, P.E., P.C.
Consulting Engineers
13 Dove Court, Croton-on-Hudson, New York 10520
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RALPH GEORGE MASTROMONACO
No. 054498

Ralph Mast

TREE REPLANTING LANDSCAPE 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 4 OF 7 SHEETS

Tree ID	Common Name	Genus	Species	DBH	Condition Class	Tree Asset Value	STATUS
1	Hickory/Pecan	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	8	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	11	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	3123.36	
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	Hickory/Pecan	Carya	sp	7	Good	1055.48	
84	Cherry-Black	Prunus	serotina	7	Fair	753.91	
85	Hickory/Pecan	Carya	sp	5	Good	538.51	
86	Hickory/Pecan	Carya	sp	11	Good	2606.39	
87	Hickory/Pecan	Carya	sp	5	Good	538.51	
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	538.51	
93	Hickory/Pecan	Carya	sp	6	Good	775.45	
94	Oak-Northern Red	Quercus	rubra	24	Good	12407.27	
95	Cherry-Black	Prunus	serotina	17	Fair	4446.55	
96	Hickory/Pecan	Carya	sp	8	Good	1723.23	
97	Cherry-Black	Prunus	serotina	7	Poor	452.35	
98	Maple-Sugar	Acer	saccharum	8	Good	1378.59	
99	Cherry	Prunus	sp	5	Good	538.51	
100	Sassafras-Common	Sassafras	albidum	5	Good	538.51	
101	Cherry	Prunus	sp	5	Good	538.51	
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	538.51	
108	Oak-White	Quercus	alba	23	Good	11394.87	
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	538.51	
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	538.51	
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	20851.11	
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	3575.71	
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	1329.35	
162	Maple-Norway	Acer	platanoides	16	Fair	3938.82	
163	Oak-Northern Red	Quercus	rubra	23	Good	20894.19	
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	1861.71	
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	12407.27	
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	
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	15724.49	
216	Tuliptree	Liriodendron	tulipifera	21	Good	18998.63	
217	Tuliptree	Liriodendron	tulipifera	19	Fair	7769.93	
218	Birch-River	Betula	nigra	9	Good	1744.77	
219	Hickory/Pecan	Carya	sp	6	Good	775.45	
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	Tree of Heaven	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	10	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	384.65	
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	Cherry	Prunus	sp	5	Good	538.51	
241	Cherry	Prunus	sp	6	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	Fair	4446.55	
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	10	Good	2154.04	
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	14	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	15	Fair	3461.85	
280	Maple-Red	Acer	rubrum	13	Good	3640.33	
281	Tuliptree	Liriodendron	tulipifera	9	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	Fair	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	8443.84	
294	Hickory/Pecan	Carya	sp	23	Good	11394.87	
295	Hickory/Pecan	Carya	sp	6	Good	775.45	
296	Hickory/Pecan	Carya	sp	6	Good	775.45	
297	Maple-Norway	Acer	platanoides	12	Dead	0	
298	Hickory/Pecan	Carya	sp	10	Good	2154.04	
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	8	Good	1572.45	
303	Hickory/Pecan	Carya	sp	7	Good	1055.48	
304	Oak-Northern Red	Quercus	rubra	16	Good	5514.34	
305	Hickory/Pecan	Carya	sp	9	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	4	Good	344.65	
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	2600.23	
316	Oak-Chestnut	Quercus	prinus	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	Fair	2600.23	
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	Oak-Northern Red	Quercus	rubra	17	Good	6225.18	
337	Hickory-Shagbark	Carya	ovata	17	Dead	0	
338	Oak-Northern Red	Quercus	rubra	20	Good	8616.16	
339	Oak-Northern Red	Quercus	rubra	20	Good	8616.16	
340	Oak-Northern Red	Quercus	rubra	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	16367.67	
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	4	Good	344.65	
350	Hickory/Pecan	Carya	sp	5	Good	538.51	
351	Sassafras-Common	Sassafras	albidum	13	Fair	2600.23	
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	Oak-Northern Red	Quercus	rubra	21	Fair	6785.23	
357	Maple-Norway	Acer	platanoides	11	Poor	1117.02	
358	Oak-Northern Red	Quercus	rubra	22	Good	10425.55	
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	Good	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	Hickory/Pecan	Carya	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	13	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	Tree of Heaven	Ailanthus	altissima	5	Poor	230.79	
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	
401	Tree of Heaven	Ailanthus	altissima	5	Fair	384.65	
402	Cherry	Prunus	sp	8	Good	1378.59	
403	Oak-White	Quercus	alba	10	Good	2154.04	
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	516.97	
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	10	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	Good	8616.16	
420	Oak-Black	Quercus	velutina	28	Good	16887.67	
421	Oak-Northern Red	Quercus	rubra	35	Good	25467.75	
422	Oak-Northern Red	Quercus	rubra	21	Good	9499.32	
423	Cherry	Prunus	sp	7	Poor	683.14	
424	Cherry	Prunus	sp	5	Good	538.51	
425	Oak-Northern Red	Quercus	rubra	31	Good	20288.18	
426	Oak-Northern Red	Quercus	rubra	23	Good	11394.87	
427	Sassafras-Common	Sassafras	albidum	10	Dead	0	
428	Sassafras-Common	Sassafras	albidum	7	Dead	0	
429	Sassafras-Common	Sassafras	albidum	9	Dead	0	
430	Birch-River	Betula	nigra	7	Good	1055.48	
431	Tuliptree	Liriodendron	tulipifera	12	Dead	0	
432	Hickory/Pecan	Carya	sp	14	Good	4221.92	
433	Maple-Norway	Acer	platanoides	6	Good	775.45	
434	Maple-Sugar	Acer	saccharum	18	Good	6979.09	
435	Oak-Northern Red	Quercus	rubra	20	Good	8616.16	
436	Oak-Northern Red	Quercus	rubra	24	Good	12407.27	
437	Oak-Chestnut	Quercus	prinus	20	Good	8616.16	
438	Hickory/Pecan	Carya	sp	9	Good	1744.77	
439	Oak-Chestnut	Quercus	prinus	25	Good	13462.75	
440	Oak-Chestnut	Quercus	prinus	11	Good	2606.39	
441	Oak-Northern Red	Quercus	rubra	31	Good	20288.18	
442	Oak-Northern Red	Quercus	rubra	34	Good	24200.43	
443	Oak-Northern Red	Quercus	rubra	8	Good	1378.59	
444	Hickory/Pecan	Carya	sp	10	Good	2154.04	
445	Hickory/Pecan	Carya	sp	8	Good	1378.59	
446	Oak-Northern Red	Quercus	rubra	30	Good	19386.36	
447	Hickory/Pecan	Carya	sp	9	Good	1744.77	
448	Hickory/Pecan	Carya	sp	6	Good	775.45	
449	Maple-Sugar	Acer	saccharum	7	Good	1055.48	
450	Maple-Sugar	Acer	saccharum	9	Good	1744.77	
451	Oak-Northern Red	Quercus	rubra	24	Good	12407.27	
452	Oak-Northern Red	Quercus	rubra	19	Good	7776.08	
453	Hickory/Pecan	Carya	sp	19	Good	7776.08	
454	Maple-Norway	Acer	platanoides	11	Good	2606.39	
455	Oak-Chestnut	Quercus	prinus	17	Dead	0	
456	Hickory/Pecan	Carya	sp	8	Good	1378.59	
457	Hickory/Pecan	Carya	sp	12	Good	3101.82	
458	Hickory/Pecan	Carya	sp	4	Good	344.65	
459	Oak-Northern Red	Quercus	rubra	28	Good	16887.67	
460	Oak-Northern Red	Quercus	rubra	29	Good	18115.48	
461	Hickory/Pecan	Carya	sp	9	Good	1744.77	
462	Hickory/Pecan	Carya	sp	8	Good	1378.59	
463	Oak-Northern Red	Quercus	rubra	28	Good	16887.67	
464	Birch-River	Betula	nigra	8	Good	1378.59	
465	Oak-Chestnut	Quercus	prinus	19	Good	7776.08	
466	Hickory/Pecan	Carya	sp	19	Good	7776.08	
467	Dogwood-Flowering	Cornus	florida	5	Good	538.51	
468	Oak-Northern Red	Quercus	rubra	36	Good	26716.68	
469	Oak-Northern Red	Quercus	rubra	27	Good	15702.95	
470	Hickory/Pecan	Carya	sp	8	Good	1378.59	
471	Hickory-Shagbark	Carya	ovata	11	Good	2606.39	
472	Oak-Northern Red	Quercus	rubra	18	Good	6979.09	
473	Oak-Northern Red	Quercus	rubra	8	Good	1378.59	
474	Hickory/Pecan	Carya	sp	8	Good	1378.59	
475	Hickory/Pecan	Carya	sp	9	Good	1744.77	
476	Hickory-Shagbark	Carya	ovata	12	Good	3101.82	
477	Birch-River	Betula	nigra	8	Good	1378.59	
478	Hickory/Pecan	Carya	sp	23	Good	11394.87	
479	Maple-Norway	Acer	platanoides	9	Good	1744.77	
480	Maple-Norway	Acer	platanoides	9	Good	1744.77	
481	Hickory/Pecan	Carya	sp	19	Good	7776.08	
482	Oak-Northern Red	Quercus	rubra	8	Good	1378.59	
483	Oak-Northern Red	Quercus	rubra	13	Good	3640.33	
484	Maple-Sugar	Acer	saccharum	15	Good	4846.59	
485	Maple-Norway	Acer	platanoides	14	Good	4221.92	
486	Maple-Norway	Acer	platanoides	14	Good	4221.92	
487	Maple-Red	Acer	rubrum	13	Good	3984.97	
488	Birch-River	Betula	nigra	19	Good	7776.08	
489	Birch-River	Betula	nigra	20	Good	16392.24	
490	Oak-Northern Red	Quercus	rubra	13	Dead	0	
491	Sassafras-Common	Sassafras	albidum	10	Poor	923.16	
492	Sassafras-Common	Sassafras	albidum	12	Good	3101.82	
493	Maple-Norway	Acer	platanoides	24	Good	12407.27	
494	Oak-Black	Quercus	velutina	28	Good	16887.67	
495	Hickory/Pecan	Carya	sp	8	Good	1378.59	
496	Hickory/Pecan	Carya	sp	14	Good	4221.92	
497	Hickory/Pecan	Carya	sp	8	Good	1378.59	
498	Oak-Northern Red	Quercus	rubra	19	Good	7776.08	
499	Maple-Norway	Acer	platanoides	14	Good	4221.92	
500	Hickory/Pecan	Carya	sp	13	Good	3640.33	
501	Ash-White	Fraxinus	americana	7	Good	1055.48	
502	Maple-Norway	Acer	platanoides	12	Good	3101.82	
503	Maple-Norway	Acer	platanoides	12	Good	3101.82	
504	Hickory/Pecan	Carya	sp	8	Good	1378.59	
505	Birch-River	Betula	nigra	10	Good	2154.04	
506	Hickory/Pecan	Carya	sp	9	Good	1744.77	
507	Cherry	Prunus	sp	9	Good	2089.42	
508	Maple-Norway	Acer	platanoides	12	Good	3101.82	
509	Hickory/Pecan	Carya	sp	13	Good	3640.33	
510	Maple-Norway	Acer	platanoides	13	Good	3640.33	
511	Oak-Northern Red	Quercus	rubra	27	Good	15702.95	
512	Birch-River	Betula	nigra	13	Good	3640.33	
513	Oak-Northern Red	Quercus	rubra	15	Good	4846.59	
514	Sassafras-Common	Sassafras	albidum	15	Good	4846.59	
515	Hickory/Pecan	Carya	sp	8	Good	1378.59	
516	Maple-Red	Acer	rubrum	11	Good	2606.39	
517	Oak-Black	Quercus	velutina	22	Good	10425.55	
518	Oak-Northern Red	Quercus	rubra	8	Fair	984.7	
519	Hickory-Shagbark	Carya	ovata	12	Good	3101.82	
520	Sassafras-Common	Sassafras	albidum	19	Dead	0	
521	Maple-Norway	Acer	platanoides	6	Good	775.45	
522	Maple-Norway	Acer	platanoides	9	Good	1744.77	
523	Maple-Norway	Acer	platanoides	5	Good	538.51	
524	Maple-Norway	Acer	platanoides	31	Fair	14491.55	
525	Hickory/Pecan	Carya	sp	9	Good	1744.77	
526	Oak-Northern Red	Quercus	rubra	22	Good	10425.55	
527	Hickory/Pecan	Carya	sp	9	Good	1744.77	
528	Oak-Northern Red	Quercus	rubra	8	Fair	984.7	
529	Hickory/Pecan	Carya	sp	12	Good	3101.82	
530	Oak-Chestnut	Quercus	prinus	23	Good	11394.87	
531	Oak-Northern Red	Quercus	rubra	21	Good	9499.32	
532	Oak-Northern Red	Quercus	rubra	34	Good	24200.43	
533	Maple-Red	Acer	rubrum	6	Good	1120.1	
534	Hickory/Pecan	Carya	sp	14	Good	4221.92	
535	Birch-River	Betula	nigra	17	Fair	4446.55	
536	Ash-White	Fraxinus	americana	13	Dead	0	
537	Oak-Northern Red	Quercus	rubra	19	Good	7776.08	
538	Maple-Sugar	Acer	saccharum	11	Good	2606.39	
539	Maple-Sugar	Acer	saccharum	11	Fair	1861.71	
540	Maple-Sugar	Acer	saccharum	10	Good	2154.04	
541	Birch-River	Betula	nigra	17	Good	6225.18	
542	Hickory/Pecan	Carya	sp	13	Good	3640.33	
543	Hickory/Pecan	Carya	sp	15	Good	4846.59	
544	Hickory/Pecan	Carya	sp	18	Good	6979.09	
545	Maple-Norway	Acer	platanoides	20	Good	8616.16	
546	Maple-Red	Acer	rubrum	21	Good	9499.32	
547	Hickory/Pecan	Carya	sp	8	Good	1378.59	
548	Maple-Norway	Acer	platanoides	18	Good	6979.09	
549	Hickory/Pecan	Carya	sp	19	Good	7776.08	
550	Maple-Red	Acer	rubrum	8	Good	1723.23	
551	Maple-Sugar	Acer	saccharum	5	Good	538.51	
552	Birch-River	Betula	nigra	6	Good	775.45	
553	Sassafras-Common	Sassafras	albidum	20	Fair	6154.4	
554	Maple-Norway	Acer	platanoides	5	Poor	230.79	
555	Maple-Norway	Acer	platanoides	6	Fair	553.9	
556	Cherry	Prunus	sp	5	Poor	230.79	
557	Hickory/Pecan	Carya	sp	5	Good	538.51	
558	Maple-Norway	Acer	platanoides	12	Good	3101.82	
559	Oak-Chestnut	Quercus	prinus	6	Good	775.45	
560	Maple-Sugar	Acer	saccharum	8	Good	1378.59	
561	Maple-Red	Acer	rubrum	15	Fair	6062.08	
562	Birch-River	Betula	nigra	6	Fair	553.9	
563	Sassafras-Common	Sassafras	albidum	14	Dead	0	
564	Birch-River	Betula	nigra	7	Good	1055.48	
565	Hickory-Shagbark	Carya	ovata	8	Good	1378.59	
566	Hickory-Shagbark	Carya	ovata	15	Good	4846.59	
567	Cherry	Prunus	sp	6	Good	775.45	
568	Hickory/Pecan	Carya	sp	6	Good	775.45	
569	Cherry	Prunus	sp	5	Good	538.51	
570	Cherry	Prunus	sp	10	Good	2154.04	
571	Hickory/Pecan	Carya	sp	8	Good	1378.59	
572	Cherry	Prunus	sp	10	Good	2154.04	
573	Oak-Chestnut	Quercus	prinus	16	Good	5514.34	
574	Hickory/Pecan	Carya	sp	19	Fair	5554.35	
575	Cherry	Prunus	sp	6	Poor	480.04	
576	Cherry	Prunus	sp	4	Good	344.65	
577	Cherry	Prunus	sp	5	Good	883.16	
578	Birch-River	Betula	nigra	4	Good	344.65	
579	Hickory/Pecan	Carya	sp	6	Poor	332.34	
580	Cherry	Prunus	sp	6	Good	775.45	
581	Birch-River	Betula	nigra	16	Poor	2363.29	
582	Cherry	Prunus	sp	7	Good	1055.48	
583	Cherry	Prunus	sp	6	Fair	553.9	
584	Hickory/Pecan	Carya	sp	6	Fair	553.9	
585	Hickory/Pecan	Carya	sp	4	Fair	246.18	
586	Tree of Heaven	Ailanthus	altissima	6	Good	775.45	
587	Hickory/Pecan	Carya	sp	4	Good	344.65	
588	Elm-American	Ulmus	americana	5	Poor	230.79	
589	Hickory/Pecan	Carya	sp	12	Good	3101.82	
590	Hickory/Pecan	Carya	sp	6	Good	775.45	
591	Cherry	Prunus	sp	6	Good	775.45	
592	Hickory/Pecan	Carya	sp	6	Good	775.45	
593	Cherry	Prunus	sp	7	Good	1055.48	
594	Hickory/Pecan	Carya	sp	6	Good	775.45	
595	Tree of Heaven	Ailanthus	altissima	5	Fair	384.65	
596	Oak-Northern Red	Quercus	rubra	11	Good	2606.39	
597	Cherry	Prunus	sp	5	Good	538.51	
598	Oak-Northern Red	Quercus	rubra	22	Good	10425.55	
599	Hickory/Pecan	Carya	sp	5	Good	538.51	
600	Oak-Northern Red	Quercus	rubra	25	Good	13462.75	
601	Oak-Chestnut	Quercus	prinus	10	Good	2154.04	
602	Tree of Heaven	Ailanthus	altissima	6	Good	775.45	
603	Cherry	Prunus	sp	6	Good	775.45	
604	Hickory/Pecan	Carya	sp	5	Good	538.51	
605	Hickory/Pecan	Carya	sp	7	Good	1055.48	
606	Hickory/Pecan	Carya	sp	4	Fair	246.18	
607	Hickory/Pecan	Carya	sp	6	Good	775.45	
608	Hickory/Pecan	Carya	sp	5	Good	538.51	
609	Oak-Northern Red	Quercus	rubra	8	Fair	984.7	
610	Hickory/Pecan	Carya	sp	4	Good	344.65	
611	Hickory/Pecan	Carya	sp	5	Good	538.51	
612	Tree of Heaven	Ailanthus	altissima	8	Good	1378.59	
613	Tree of Heaven	Ailanthus	altissima	5	Good	538.51	
614	Hickory/Pecan	Carya	sp	5	Good	538.51	
615	Oak-Northern Red	Quercus	rubra	20	Good	21906.59	
616	Tree of Heaven	Ailanthus	altissima	7	Good	1055.48	
617	Oak-Chestnut	Quercus	prinus	12	Good	3101.82	
618	Tree of Heaven	Ailanthus	altissima	8	Good	1378.59	
619	Tree of Heaven	Ailanthus	altissima	5	Poor	230.79	
620	Tree of Heaven	Ailanthus	altissima	6	Good	775.45	
621	Hickory/Pecan	Carya	sp	6	Good	775.45	
622	Tree of Heaven	Ailanthus	altissima	7	Dead	0	
623	Cherry	Prunus	sp	7	Dead	0	
624	Hickory/Pecan	Carya	sp	9	Good	2089.42	
625	Hickory/Pecan	Carya	sp	6	Good	775.45	
626	Hickory/Pecan	Carya	sp	6	Good	775.45	
627	Hickory/Pecan	Carya	sp	6	Good	775.45	
628	Tree of Heaven	Ailanthus	altissima	14	Good	4221.92	
629	Cherry	Prunus	sp	5	Good	538.51	
630	Oak-Black	Quercus	velutina	6	Good	775.45	
631	Hickory/Pecan	Carya	sp	9	Good	1744.77	
632	Cherry	Prunus	sp	11	Good	2606.39	
633	Tree of Heaven	Ailanthus	altissima	12	Good	3101.82	
634	Oak-Northern Red	Quercus	rubra	6	Good	775.45	
635	Hickory/Pecan	Carya	sp	5	Good	538.51	
636	Hickory/Pecan	Carya	sp	7	Good	1055.48	
637	Tree of Heaven	Ailanthus	altissima	9	Good	1744.77	
638	Tree of Heaven	Ailanthus	altissima	9	Good	1744.77	
639	Hickory/Pecan	Carya	sp	5	Good	538.51	
640	Hickory/Pecan	Carya	sp	7	Good	1055.48	
641	Tree of Heaven	Ailanthus	altissima	4	Good	344.65	
642	Oak-Northern Red	Quercus	rubra	5	Good	538.51	
643	Tree of Heaven	Ailanthus	altissima	5	Good	538.51	
644	Tree of Heaven	Ailanthus	altissima	11	Fair	1861.71	
645	Tree of Heaven	Ailanthus	altissima	9	Good	1744.77	
646	Tree of Heaven	Ailanthus	altissima	8	Good	1378.59	
647	Maple-Norway	Acer	platanoides	8	Good	1378.59	
648	Hickory/Pecan	Carya	sp	4	Good	344.65	
649	Tree of Heaven	Ailanthus	altissima	7	Good	1055.48	
650	Hickory/Pecan	Carya	sp	5	Good	538.51	
651	Maple-Norway	Acer	platanoides	9	Good	2800.25	
652	Tree of Heaven	Ailanthus	altissima	10	Good	2154.04	
653	Maple-Norway	Acer	platanoides	4	Good	344.65	
654	Hickory/Pecan	Carya	sp	7	Good	1830.93	
655	Hickory-Shagbark	Carya	ovata	8	Good	1378.59	
656	Oak-Northern Red	Quercus	rubra	9	Good	1744.77	
657	Oak-Northern Red	Quercus	rubra	5	Good	538.51	
658	Maple-Norway	Acer	platanoides	5	Good	538.51	
659	Oak-Northern Red	Quercus	rubra	22	Good	10425.55	
660	Maple-Norway	Acer	platanoides	8	Good	1378.59	
661	Maple-Norway	Acer	platanoides	4	Good	344.65	
662	Maple-Norway	Acer	platanoides	9	Good	1744.77	
663	Maple-Norway	Acer	platanoides	6	Good	775.45	
664	Cherry	Prunus	sp	7	Good	1055.48	
665	Tree of Heaven	Ailanthus	altissima	9	Good	2089.42	
666	Hickory/Pecan	Carya	sp	7	Good	1055.48	
667	Oak-Black	Quercus	velutina	31	Good	20288.18	
668	Maple-Norway	Acer	platanoides	11	Good	2606.39	
669	Maple-Sugar	Acer	saccharum	14	Good	4221.92	
670	Cherry	Prunus	sp	8	Good	1378.59	
671	Hickory/Pecan	Carya	sp	9	Good	1744.77	
672	Maple-Red	Acer	rubrum	8	Poor	738.53	
673	Maple-Red	Acer	rubrum	9	Good	1744.77	
674	Maple-Red	Acer	rubrum	8	Good	1378.59	
675	Maple-Sugar	Acer	saccharum	13	Good	3640.33	
676	Oak-Black	Quercus	velutina	41	Good	32685.57	
677	Maple-Sugar	Acer	saccharum	13	Good	3640.33	
678	Hornbeam-American	Carpinus	caroliniana	5	Good	538.51	
679	Hornbeam-American	Carpinus	caroliniana	5	Good	538.51	
680	Oak-Northern Red	Quercus	rubra	8	Good	1378.59	
681	Oak-Northern Red	Quercus	rubra	28	Good	16887.67	
682	Birch-River	Betula	nigra	12	Good	3101.82	
683	Hickory/Pecan	Carya	sp	9	Good	1744.77	
684	Hickory/Pecan	Carya	sp	4	Good	344.65	
685	Oak-Northern Red	Quercus	rubra	7	Good	1055.48	
686	Cherry	Prunus	sp	9	Good	1744.77	
687	Cherry	Prunus	sp	8	Good	1378.59	
688	Hickory/Pecan	Carya	sp	4	Good	344.65	
689	Oak-Northern Red	Quercus	rubra	18	Good	6979.09	
690	Maple-Norway	Acer	platanoides	8	Good	1378.59	
691	Maple-Norway	Acer	platanoides	15	Good	4846.59	
692	Hickory/Pecan	Carya	sp	6	Dead	0	
693	Oak-Black	Quercus	velutina	43	Good	34944.43	
694	Hickory/Pecan	Carya	sp	15	Good	4846.59	
695	Hickory/Pecan	Carya	sp	15	Good	4846.59	
696	Sassafras-Common	Sassafras	albidum	4	Good	344.65	
697	Oak-Black	Quercus	velutina	12	Good	3101.82	
698	Oak-Black	Quercus	velutina	24	Good	12407.27	
699	Oak-Black	Quercus	velutina	7	Good	1055.48	
700	Oak-Northern Red	Quercus	rubra	13	Good	3640.33	
701	Oak-Northern Red	Quercus	rubra	7	Good	1055.48	
702	Birch-River	Betula	nigra	17	Poor	2667.93	
703	Oak-Northern Red	Quercus	rubra	5	Good	538.51	
704	Hickory/Pecan	Carya	sp	15	Good	4846.59	
705	Oak-Northern Red	Quercus	rubra	5	Good	538.51	
706	Sassafras-Common	Sassafras	albidum	6	Good	775.45	
707	Sassafras-Common	Sassafras	albidum	7	Good	1055.48	
708	Sassafras-Common	Sassafras	albidum	7	Good	1055.48	
709	Sassafras-Common	Sassafras	albidum	6	Good	775.45	
710	Sassafras-Common	Sassafras	albidum	6	Good	775.45	
711	Sassafras-Common	Sassafras	albidum	4	Good	344.65	
712	Oak-Northern Red	Quercus	rubra	11	Good	2606.39	
713	Sassafras-Common	Sassafras	albidum	5	Good	538.51	
714	Sassafras-Common	Sassafras	albidum	4	Good	538.51	
715	Sassafras-Common	Sassafras	albidum	8	Good	1378.59	
716	Birch-River	Betula	nigra	4	Good	344.65	
717	Birch-River	Betula	nigra	7	Good	1055.48	
718	Birch-River	Betula	nigra	9	Good	1744.77	
719	Dogwood-Flowering	Cornus	florida	7	Good	1055.48	
720	Cherry	Prunus	sp	4	Good	344.65	
721	Sassafras-Common	Sassafras	albidum	5	Good	538.51	
722	Birch-River	Betula	nigra	10	Poor	923.16	
723	Birch-River	Betula	nigra	6	Good	1120.1	
724	Birch-River	Betula	nigra	7	Good	1593.99	
725	Birch-River	Betula	nigra	6	Good	775.45	
726	Birch-River	Betula	nigra	9	Good	1938.64	
727	Hickory-Shagbark	Carya	ovata	7	Good	1055.48	
728	Birch-River	Betula	nigra	6	Good	775.45	
729	Cherry	Prunus	sp	5	Good	538.51	
730	Cherry	Prunus	sp	4	Good	344.65	
731	Cherry	Prunus	sp	12	Good	3101.82	
732	Cherry	Prunus	sp	4	Good	344.65	
733	Hickory-Shagbark	Carya	ovata	10	Good	2154.04	
734	Maple-Norway	Acer	platanoides	4	Good	344.65	
735	Birch-River	Betula	nigra	27	Good	15702.95	
736	Maple-Norway	Acer	platanoides	7	Good	1055.48	
737	Cherry	Prunus	sp	11	Good	2606.39	
738	Maple-Norway	Acer	platanoides	8	Good	1378.59	
739	Maple-Norway	Acer	platanoides	5	Good	538.51	
740	Maple-Norway	Acer	platanoides	5	Good	538.51	
741	Oak-Northern Red	Quercus	rubra	6	Good	775.45	
742	Maple-Norway	Acer	platanoides	4	Dead	0	
743	Maple-Norway	Acer	platanoides	8	Good	1378.59	
744	Maple-Norway	Acer	platanoides	7	Good	1055.48	
745	Maple-Norway	Acer	platanoides	11	Good	2606.39	
746	Maple-Norway	Acer	platanoides	6	Good	775.45	
747	Sassafras-Common	Sassafras	albidum	7	Good	1055.48	
748	Sassafras-Common	Sassafras	albidum	4	Good	344.65	
749	Sassafras-Common	Sassafras	albidum	5	Good	538.51	
750	Sassafras-Common	Sassafras	albidum	4	Good	344.65	
751	Cherry	Prunus	sp	4	Good	344.65	
752	Birch-River	Betula	nigra	23	Good	11394.87	
753	Birch-River	Betula	nigra	15	Good	4846.59	
754	Oak-White	Quercus	alba	6	Good	775.45	
755	Tree of Heaven	Ailanthus	altissima	6	Good	775.45	
756	Sassafras-Common	Sassafras	albidum	7	Good	1055.48	
757	Sassafras-Common	Sassafras	albidum	5	Good	538.51	
758	Sassafras-Common	Sassafras	albidum	6	Good	775.45	
759	Sassafras-Common	Sassafras	albidum	5	Good	538.51	
760	Oak-Northern Red	Quercus	rubra	4	Good	344.65	
761	Sassafras-Common	Sassafras	albidum	4	Good	344.65	
762	Cherry	Prunus	sp	6	Good	1120.1	
763	Oak-Northern Red	Quercus	rubra	38	Good	29159.39	
764	Maple-Sugar	Acer	saccharum	17	Good	11739.52	
765	Maple-Red	Acer	rubrum	6	Good	775.45	
766	Maple-Sugar	Acer	saccharum	10	Good	2498.69	
767	Oak-Black	Quercus	velutina	26	Good	14561.31	
768	Hickory/Pecan	Carya	sp	10	Good	2154.04	
769	Hickory/Pecan	Carya	sp	4	Good	344.65	
770	Hickory/Pecan	Carya	sp	6	Good	775.45	
771	Hickory/Pecan	Carya	sp	5	Good	538.51	
772	Hickory/Pecan	Carya	sp	18	Good	6979.09	
773	Maple-Norway	Acer	platanoides	8	Good	1378.59	
774	Oak-Chestnut	Quercus	prinus	15	Good	4846.59	
775	Hickory-Shagbark	Carya	ovata	12	Good	3101.82	
776	Oak-Black	Quercus	velutina	16	Good	5514.34	
777	Hickory/Pecan	Carya	sp	7	Good	1055.48	
778	Maple-Norway	Acer	platanoides	11	Dead	0	
779	Maple-Norway	Acer	platanoides	11	Good	2606.39	
780	Oak-Northern Red	Quercus	rubra	17	Good	6225.18	
781	Oak-Northern Red	Quercus	rubra	35	Good	25467.75	
782	Hickory/Pecan	Carya	sp	4	Good	344.65	
783	Oak-Chestnut	Quercus	prinus	25	Good	13462.75	
784	Birch-River	Betula	nigra	16	Dead	0	
785	Oak-Northern Red	Quercus	rubra	26	Good	14561.31	
786	Oak-Black	Quercus	velutina	19	Good	7776.08	
787	Hickory/Pecan	Carya	sp	11	Good	2606.39	
788	Oak-Northern Red	Quercus	rubra	18	Good	6979.09	
789	Hickory/Pecan	Carya	sp	9	Good	1744.77	
790	Maple-Sugar	Acer	saccharum	22	Good	11804.14	
791	Maple-Norway	Acer	platanoides	9	Good	1744.77	
792	Sassafras-Common	Sassafras	albidum	5	Good	538.51	
793	Birch-River	Betula	nigra	19	Good	7776.08	
794	Sassafras-Common	Sassafras	albidum	4	Fair	246.18	
795	Sassafras-Common	Sassafras	albidum	6	Good	775.45	
796	Maple-Sugar	Acer	saccharum	5	Good	538.51	
797	Cherry	Prunus	sp	5	Good	538.51	
798	Sassafras-Common	Sassafras	albidum	5	Good	538.51	
799	Elm-American	Ulmus	americana	7	Good	2886.41	
800	Maple-Sugar	Acer	saccharum	7	Good	1055.48	
801	Hickory/Pecan	Carya	sp	4	Good	344.65	
802	Oak-Northern Red	Quercus	rubra	12	Good	3101.82	
803	Hickory/Pecan	Carya	sp	7	Good	1055.48	
804	Oak-Northern Red	Quercus	rubra	32	Good	21610.65	
805	Hackberry	Celtis	occidentalis	4	Poor	147.71	
806	Hickory/Pecan	Carya	sp	7	Good	1055.48	
807	Maple-Red	Acer	rubrum	6	Good	1120.1	
808	Cherry	Prunus	sp	24	Poor	5317.4	
809	Hickory/Pecan	Carya	sp	8	Good	1378.59	
810	Maple-Sugar	Acer	saccharum	9	Good	1744.77	
811	Oak-Northern Red	Quercus	rubra	31	Good	38403.65	
812	Maple-Red	Acer	rubrum	10	Good	2154.04	
813	Cherry	Prunus	sp	5	Good	538.51	
814	Cherry	Prunus	sp	7	Good	1055.48	
815	Hickory/Pecan	Carya	sp	5	Good	538.51	
816	Hickory/Pecan	Carya	sp	8	Fair	984.7	
817	Oak-Northern Red	Quercus	rubra	7	Good	1249.34	
818	Maple-Norway	Acer	platanoides	5	Good	538.51	
819	Sassafras-Common	Sassafras	albidum	10	Good	2154.04	
820	Maple-Norway	Acer	platanoides	9	Good	1744.77	
821	Sassafras-Common	Sassafras	albidum	5	Poor	230.79	
822	Maple-Norway	Acer	platanoides	4	Good	344.65	
823	Hickory/Pecan	Carya	sp	12	Good	3101.82	
824	Cherry	Prunus	sp	5	Good	538.51	
825	Cherry	Prunus	sp	12	Good	3101.82	
826	Sassafras-Common	Sassafras	albidum	4	Fair	246.18	
827	Sassafras-Common	Sassafras	albidum	5	Fair	384.65	
828	Sassafras-Common	Sassafras	albidum	5	Good	538.51	
829	Birch-River	Betula	nigra	24	Good	12407.27	
830	Maple-Norway	Acer	platanoides	11	Good	2606.39	
831	Sassafras-Common	Sassafras	albidum	4	Good	344.65	
832	Oak-White	Quercus	alba	6	Good	775.45	
833	Maple-Red	Acer	rubrum	13	Good	3640.33	
834	Sassafras-Common	Sassafras	albidum	4	Good	344.65	
835	Sassafras-Common	Sassafras	albidum	5	Fair	384.65	
836	Sassafras-Common	Sassafras	albidum	5	Poor	230.79	
837	Sassafras-Common	Sassafras	albidum	5	Good	538.51	
838	Sassafras-Common	Sassafras	albidum	6	Good	775.45	
839	Oak-Northern Red	Quercus	rubra	33	Poor	9820.6	
840	Maple-Sugar	Acer	saccharum	8	Good	1378.59	
841	Hickory/Pecan	Carya	sp	18	Good	6979.09	
842	Sassafras-Common	Sassafras	albidum	6	Good	775.45	
843	Sassafras-Common	Sassafras	albidum	9	Fair	1246.27	
844	Sassafras-Common	Sassafras	albidum	8	Fair	984.7	
845	Tuliptree	Liriodendron	tulipifera	35	Good	25467.75	
846	Hickory/Pecan	Carya	sp	27	Good	15702.95	
847	Locust-Black	Robinia	pseudoacacia	11	Good	2606.39	
848	Locust-Black	Robinia	pseudoacacia	6	Poor	332.34	
849	Tuliptree	Liriodendron	tulipifera	28	Good	16887.67	
850	Maple-Norway	Acer	platanoides	6	Good	775.45	
851	Maple-Norway	Acer	platanoides	10	Good	2154.04	
852	Hickory/Pecan	Carya	sp	32	Good	21610.65	
853	Hickory/Pecan	Carya	sp	5	Good	538.51	
854	Hickory/Pecan	Carya	sp	10	Good	2929.49	
855	Hickory/Pecan	Carya	sp	49	Good	41279.78	
856	Hickory/Pecan	Carya	sp	6	Good	775.45	
857	Hickory/Pecan	Carya	sp	11	Good	2606.39	
858	Hickory/Pecan	Carya	sp	5	Good	538.51	
859	Locust-Black	Robinia	pseudoacacia	31	Fair	14491.55	
860	Hickory/Pecan	Carya	sp	5	Good	538.51	
861	Hickory/Pecan	Carya	sp	25	Good	13462.75	
862	Hickory/Pecan	Carya	sp	10	Good	2154.04	
863	Hickory/Pecan	Carya	sp	11	Good	2606.39	
864	Hickory/Pecan	Carya	sp	24	Good	12407.27	
865	Cherry	Prunus	sp	7	Good	1055.48	
866	Hickory/Pecan	Carya	sp	5	Good	538.51	
867	Maple-Norway	Acer	platanoides	5	Good	538.51	
868	Hickory/Pecan	Carya	sp	10	Good	2154.04	
869	Hickory/Pecan	Carya	sp	29	Good	18115.48	
870	Maple-Norway	Acer	platanoides	6	Good	775.45	
871	Maple-Norway	Acer	platanoides	9	Good	1744.77	
872	Maple-Norway	Acer	platanoides	9	Good	1744.77	
873	Oak-White	Quercus	alba	39	Good	30353.17	
874	Cherry	Prunus	sp	6	Good	775.45	
875	Maple-Sugar	Acer	saccharum	6	Good	775.45	
876	Hickory/Pecan	Carya	sp	23	Good	11394.87	
877	Cherry	Prunus	sp	5	Good	538.51	
878	Cherry	Prunus	sp	6	Good	775.45	
879	Birch-River	Betula	nigra	10	Good	2154.04	
880	Hickory/Pecan	Carya	sp	20	Good	8616.16	
881	Hickory/Pecan	Carya	sp	14	Good	4221.92	
882	Hickory/Pecan	Carya	sp	12	Good	3101.82	
883	Maple-Norway	Acer	platanoides	15	Good	4846.59	
884	Maple-Norway	Acer	platanoides	8	Good	1378.59	
885	Hickory/Pecan	Carya	sp	16	Good	5514.34	
886	Oak-White	Quercus	alba	20	Good	8616.16	
887	Cherry	Prunus	sp	5	Good	538.51	
888	Oak-Northern Red	Quercus	rubra	31	Good	20288.18	
889	Dogwood-Flowering	Cornus	florida	5	Good	538.51	
890	Oak-Northern Red	Quercus	rubra	7	Good	1055.48	
891	Birch-River	Betula	nigra	16	Fair	5800.52	
892	Hickory/Pecan	Carya	sp	5	Good	538.51	
893	Maple-Norway	Acer	platanoides	4	Good	344.65	
894	Birch-River	Betula	nigra	20	Good	8616.16	
895	Birch-River	Betula	nigra	17	Good	6225.18	
896	Maple-Norway	Acer	platanoides	15	Good	4846.59	
897	Dogwood-Flowering	Cornus	florida	5	Good	538.51	
898	Birch-River	Betula	nigra	14	Good	4221.92	
899	Hophornbeam-American	Ostrya	virginiana	6	Good	775.45	
900	Hophornbeam-American	Ostrya	virginiana	5	Good	538.51	
901	Hickory/Pecan	Carya	sp	6	Good	775.45	
902	Hickory/Pecan	Carya	sp	8	Good	1378.59	
903	Hickory/Pecan	Carya	sp	21	Good	9499.32	
904	Oak-Northern Red	Quercus	rubra	27	Good	15702.95	
905	Dogwood-Flowering	Cornus	florida	5	Poor	230.79	
906	Hickory/Pecan	Carya	sp	13	Good	3640.33	
907	Oak-Northern Red	Quercus	rubra	8	Good	1378.59	
908	Hophornbeam-American	Ostrya	virginiana	7	Good	1055.48	
909	Hickory/Pecan	Carya	sp	19	Good	7776.08	
910	Hickory/Pecan	Carya	sp	7	Good	1055.48	
911	Maple-Norway	Acer	platanoides	9	Good	2821.79	
912	Oak-Northern Red	Quercus	rubra	15	Good	7452.98	
913	Hackberry	Celtis	occidentalis	7	Fair	753.91	
914	Tree of Heaven	Ailanthus	altissima	12	Good	3446.46	
915	Locust-Black	Robinia	pseudoacacia	10	Good	2154.04	
916	Tree of Heaven	Ailanthus	altissima	5	Good	732.37	
917	Oak-Northern Red	Quercus	rubra	8	Good	1378.59	
918	Hickory/Pecan	Carya	sp	17	Good	6225.18	
919	Oak-Northern Red	Quercus	rubra	15	Good	4846.59	
920	Hickory-Shagbark	Carya	ovata	14	Good	4221.92	
921	Oak-Black	Quercus	velutina	37	Good	27947.23	
922	Dogwood-Flowering	Cornus	florida	5	Good	538.51	
923	Oak-Northern Red	Quercus	rubra	10	Good	2154.04	
924	Locust-Black	Robinia	pseudoacacia	22	Good	10425.55	
925	Hickory-Shagbark	Carya	ovata	20	Good	16392.24	
926	Sassafras-Common	Sassafras	albidum	8	Good	1378.59	
927	Dogwood-Flowering	Cornus	florida	4	Good	344.65	
928	Tree of Heaven	Ailanthus	altissima	10	Good	2154.04	
929	Locust-Black	Robinia	pseudoacacia	10	Fair	1538.6	
930	Tree of Heaven	Ailanthus	altissima	14	Good	4221.92	
931	Oak-Northern Red	Quercus	rubra	18	Good	6979.09	
932	Oak-Northern Red	Quercus	rubra	22	Good	10425.55	
933	Locust-Black	Robinia	pseudoacacia	8	Poor	590.82	
934	Cherry	Prunus	sp	4	Good	430.81	
935	Sassafras-Common	Sassafras	albidum	7	Poor	452.35	
936	Oak-Northern Red	Quercus	rubra	5	Good	538.51	
937	Hickory-Shagbark	Carya	ovata	21	Good	10274.77	
938	Birch-River	Betula	nigra	12	Good	3101.82	
939	Oak-White	Quercus	alba	16	Good	5514.34	
940	Cherry	Prunus	sp	9	Good	1744.77	
941	Maple-Norway	Acer	platanoides	10	Good	2154.04	
942	Oak-Black	Quercus	velutina	25	Good	13462.75	
943	Hickory/Pecan	Carya	sp	9	Good	1744.77	
944	Maple-Red	Acer	rubrum	11	Poor	1117.02	
945	Hickory-Shagbark	Carya	ovata	16	Good	5514.34	
946	Hickory-Shagbark	Carya	ovata	22	Good	10425.55	
947	Hickory/Pecan	Carya	sp	17	Good	6225.18	
948	Hickory-Shagbark	Carya	ovata	14	Good	6742.15	

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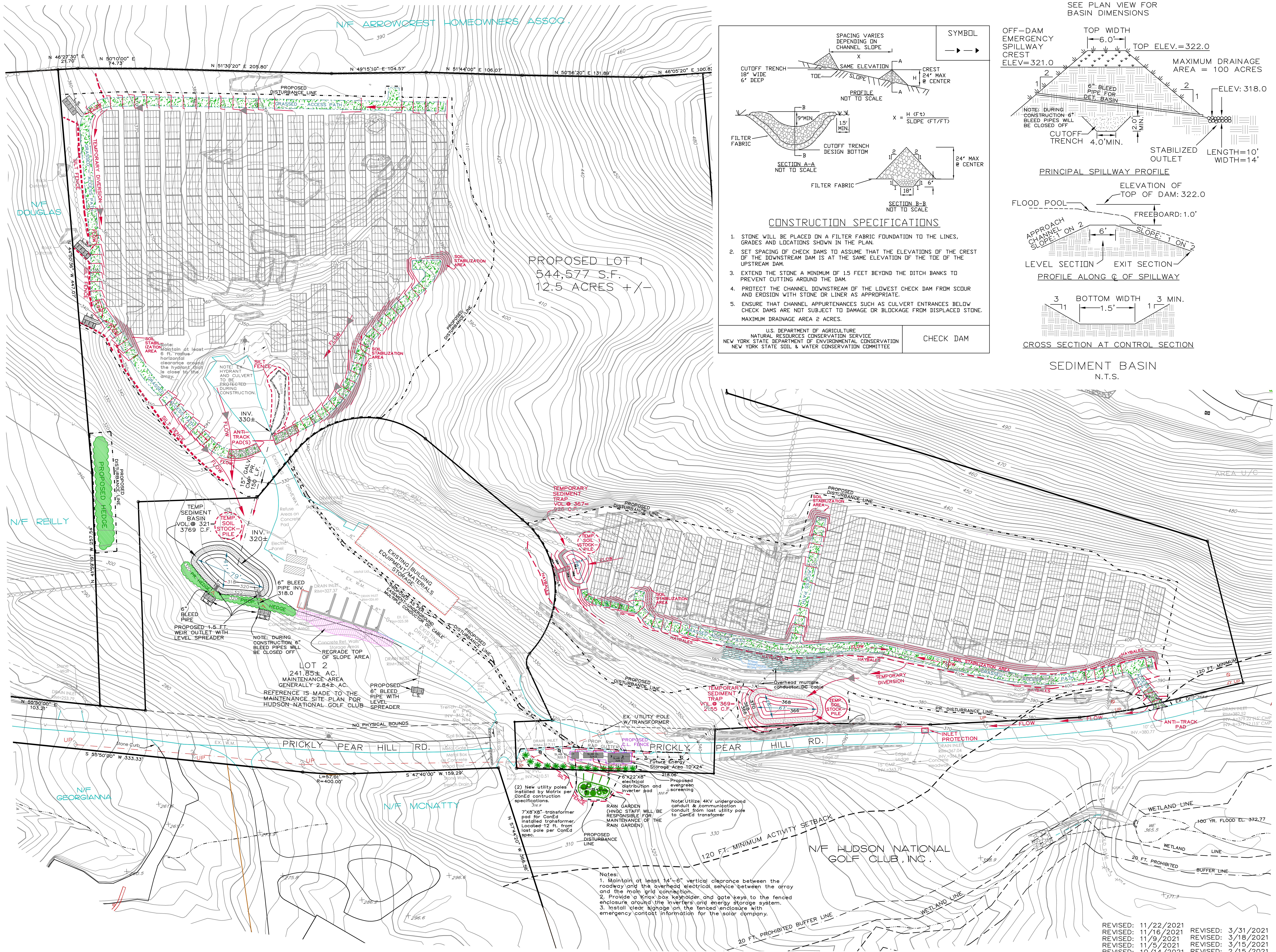
RALPH GEORGE MASTROMONACO
No. 054498

TREE SCHEDULE
SOLAR ARRAY SYSTEM

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

SHEET 5 OF 7 SHEETS


N/F ARROWCREST HOMEOWNERS ASSOC.
N/F DOUGLAS
N/F REILLY
N/F GEORGIANNA
N/F MCNATTY
N/F HUDSON NATIONAL GOLF CLUB, INC.
PROPOSED LOT 1
544,577 S.F.
12.5 ACRES +/-
LOT 2
241.85± AC.
MAINTENANCE AREA
GENERALLY 2.84± AC.
REFERENCE IS MADE TO THE MAINTENANCE SITE PLAN FOR HUDSON NATIONAL GOLF CLUB
PRICKLY PEAR HILL RD.
PROPOSED DISTURBANCE LINE
GRASSED ACCESS PATH
TEMPORARY DIVERSION
SILT FENCE
SOIL STABILIZATION AREA
FLOW
ANTI-TRACK PAD(S)
INV. 330±
INV. 320±
TEMP SEDIMENT BASIN VOL.@ 321= 3769 C.F.
TEMP. SOIL STOCK-PILE
6" BLEED PIPE INV. 318.0
6" BLEED PIPE
PROPOSED 1.5 FT. WEIR OUTLET WITH LEVEL SPREADER
NOTE: DURING CONSTRUCTION 6" BLEED PIPES WILL BE CLOSED OFF
REGRADE TOP OF SLOPE AREA
PROPOSED 6" BLEED PIPE WITH LEVEL SPREADER
PROPOSED HEDGE
EXISTING BUILDING EQUIPMENT/MATERIALS STORAGE
NOTE: EX. HYDRANT AND CULVERT TO BE PROTECTED DURING CONSTRUCTION.
Note: Maintain at least 6 ft. radius horizontal clearance around the hydrant that is close to the array.
TEMPORARY SEDIMENT TRAP VOL.@ 367= 926 C.F.
TEMPORARY SEDIMENT TRAP VOL.@ 369= 2255 C.F.
TEMPORARY DIVERSION
HAYBALES
Overhead multiple conductor DC cable
INLET PROTECTION
ANTI-TRACK PAD
EX. UTILITY POLE W/TRANSFORMER
NO PHYSICAL BOUNDS
(2) New utility poles installed by Matrix per ConEd construction specifications.
7'X8'X8" transformer pad for ConEd installed transformer. Located 12 ft. from last pole per ConEd spec.
7'6"X22'X8" electrical distribution and inverter pad
Future Energy Storage Area 10'X24'
Proposed evergreen screening
RAIN GARDEN (HNGC STAFF WILL BE RESPONSIBLE FOR MAINTENANCE OF THE RAIN GARDEN)
Note: Utilize 4KV underground conduit & communication conduit from last utility pole to ConEd transfomer
PROPOSED DISTURBANCE LINE
120 FT. MINIMUM ACTIVITY SETBACK
20 FT. PROHIBITED BUFFER LINE
WETLAND LINE
100 YR. FLOOD EL. 372.77
AREA U/C
L=57.61'
R=400.00'
S 55°50'00" W 333.33'
S 47°40'00" W 159.29'
N 55°50'00" E 103.21'
N 46°27'30" 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 106.07'
N 50°56'20" E 131.80'
N 46°05'20" E 100.82'
N 4°50'56" W 447.07'
N 4°50'56" W 257.54'
OFF-DAM EMERGENCY SPILLWAY CREST ELEV=321.0
TOP WIDTH 6.0'
TOP ELEV.=322.0
MAXIMUM DRAINAGE AREA = 100 ACRES
ELEV: 318.0
6" BLEED PIPE FOR DET. BASIN
NOTE: DURING CONSTRUCTION 6" BLEED PIPES WILL BE CLOSED OFF
CUTOFF TRENCH
4.0'MIN.
2.0' MIN.
STABILIZED OUTLET
LENGTH=10'
WIDTH=14'
SEE PLAN VIEW FOR BASIN DIMENSIONS
ELEVATION OF TOP OF DAM: 322.0
FLOOD POOL
FREEBOARD: 1.0'
APPROACH CHANNEL SLOPE 1 ON 2
SLOPE 1 ON 2
LEVEL SECTION
EXIT SECTION
BOTTOM WIDTH 1.5'
3 MIN.
SPACING VARIES DEPENDING ON CHANNEL SLOPE
CUTOFF TRENCH 18" WIDE 6" DEEP
SAME ELEVATION
CREST
24" MAX @ CENTER
TOE
SLOPE
FILTER FABRIC
9"MIN.
1.5' MIN.
CUTOFF TRENCH DESIGN BOTTOM
X = H (Ft) / SLOPE (FT/FT)
18"
6"
SYMBOL

PROFILE
NOT TO SCALE

SECTION A-A
NOT TO SCALE

SECTION B-B
NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.

MAXIMUM DRAINAGE AREA 2 ACRES.

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

PRINCIPAL SPILLWAY PROFILE

PROFILE ALONG ℄ OF SPILLWAY

CROSS SECTION AT CONTROL SECTION

SEDIMENT BASIN
N.T.S.

Notes:
1. Maintain at least 14'-6" vertical clearance between the roadway and the overhead electrical service between the array and the main grid connection.
2. Provide a Knox box keyholder and gate keys to the fenced enclosure around the inverters and energy storage system.
3. Install clear signage on the fenced enclosure with emergency contact information for the solar company.

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
▼	CHECK DAM

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No. 054498

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: 12/29/2021
REVISED: 12/27/2021
REVISED: 12/9/2021
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

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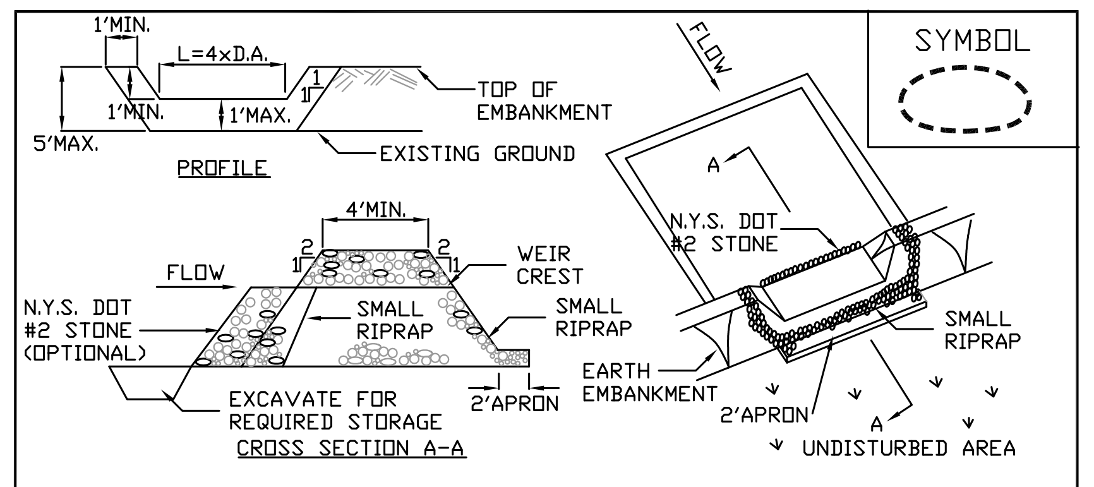
1'MIN.
L=4×D.A.
TOP OF EMBANKMENT
1'MIN.
1'MAX.
5'MAX.
PROFILE
EXISTING GROUND
SYMBOL
FLOW
4'MIN.
WEIR CREST
N.Y.S. DOT #2 STONE (OPTIONAL)
SMALL RIPRAP
EXCAVATE FOR REQUIRED STORAGE
2'APRON
CROSS SECTION A-A
N.Y.S. DOT #2 STONE
EARTH EMBANKMENT
UNDISTURBED AREA

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 SMALL 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

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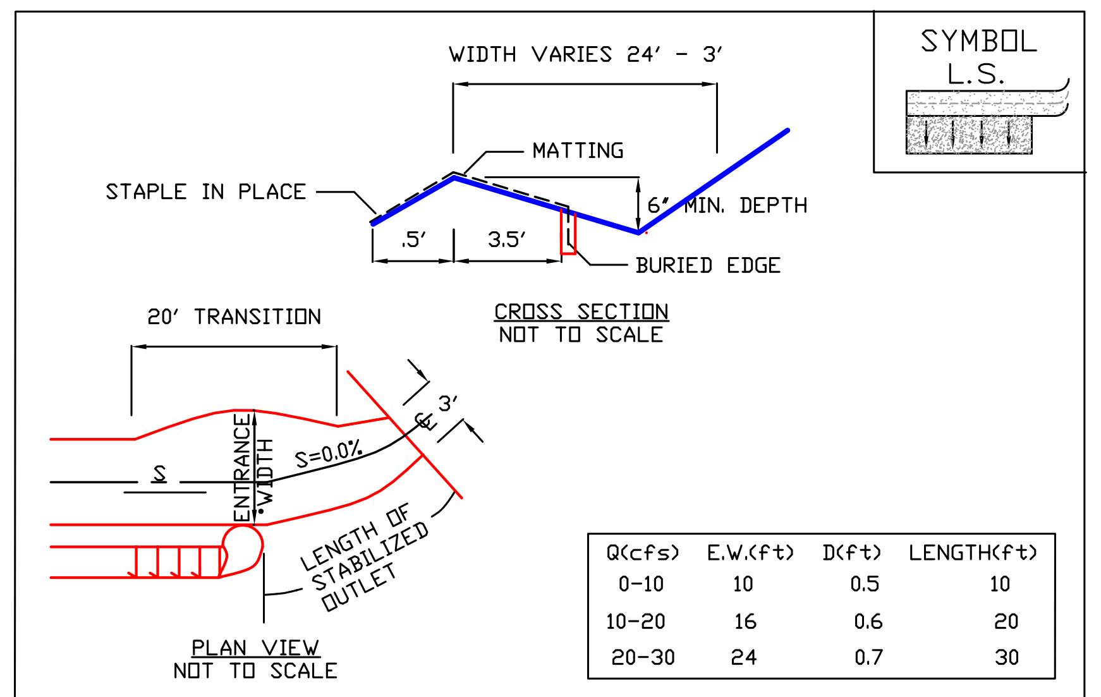
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

STONE OUTLET SEDIMENT TRAP ST-IV


WIDTH VARIES 24' - 3'
SYMBOL
L.S.
MATTING
STAPLE IN PLACE
6" MIN. DEPTH
.5'
3.5'
BURIED EDGE
20' TRANSITION
CROSS SECTION
NOT TO SCALE
ENTRANCE WIDTH
S=0.0%
S
3'
LENGTH OF STABILIZED OUTLET
PLAN VIEW
NOT TO SCALE

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.

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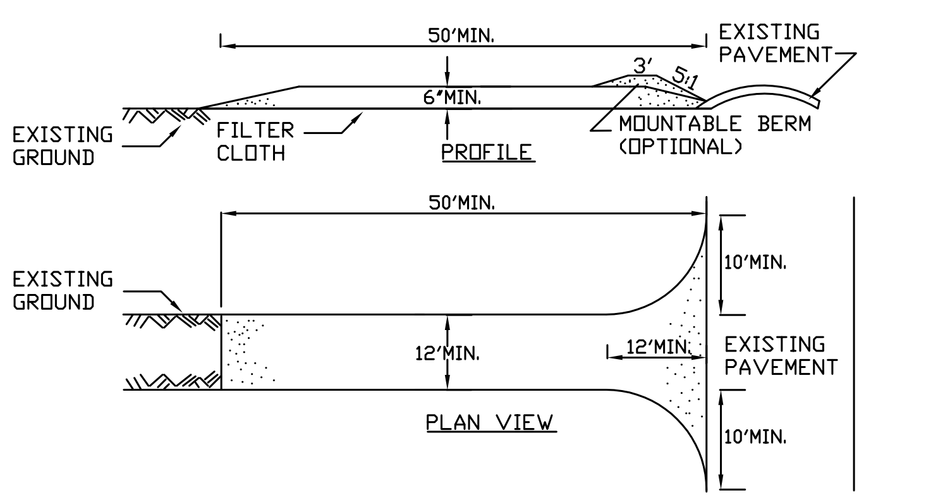
LEVEL SPREADER


50'MIN.
EXISTING PAVEMENT
3'
5:1
6"MIN.
EXISTING GROUND
FILTER CLOTH
PROFILE
MOUNTABLE BERM (OPTIONAL)
50'MIN.
10'MIN.
EXISTING GROUND
12'MIN.
12'MIN.
EXISTING PAVEMENT
PLAN VIEW
10'MIN.

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.

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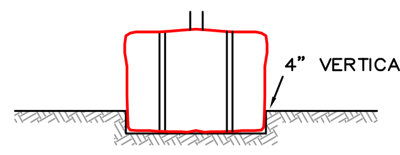
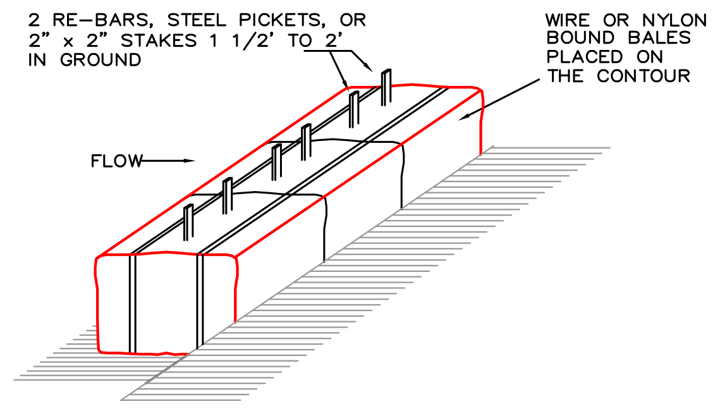
STABILIZED CONSTRUCTION ENTRANCE


4" VERTICAL FACE

EMBEDDING DETAIL
N.T.S.

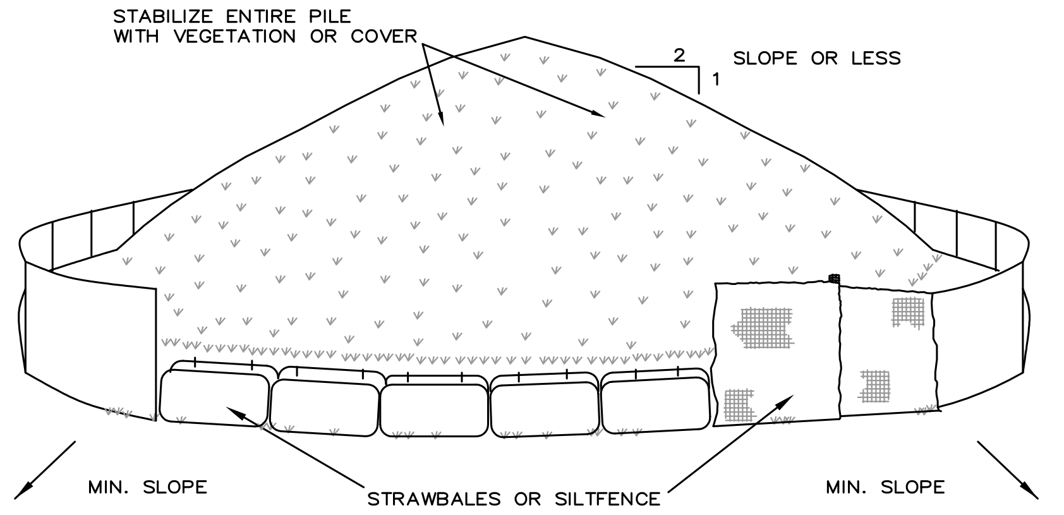

2 RE-BARS, STEEL PICKETS, OR 2" x 2" STAKES 1 1/2' TO 2' IN GROUND
WIRE OR NYLON BOUND BALES PLACED ON THE CONTOUR
FLOW

ANCHORING DETAIL
N.T.S.

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.


STABILIZE ENTIRE PILE WITH VEGETATION OR COVER
2
1
SLOPE OR LESS
MIN. SLOPE
STRAWBALES OR SILTFENCE
MIN. SLOPE

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.

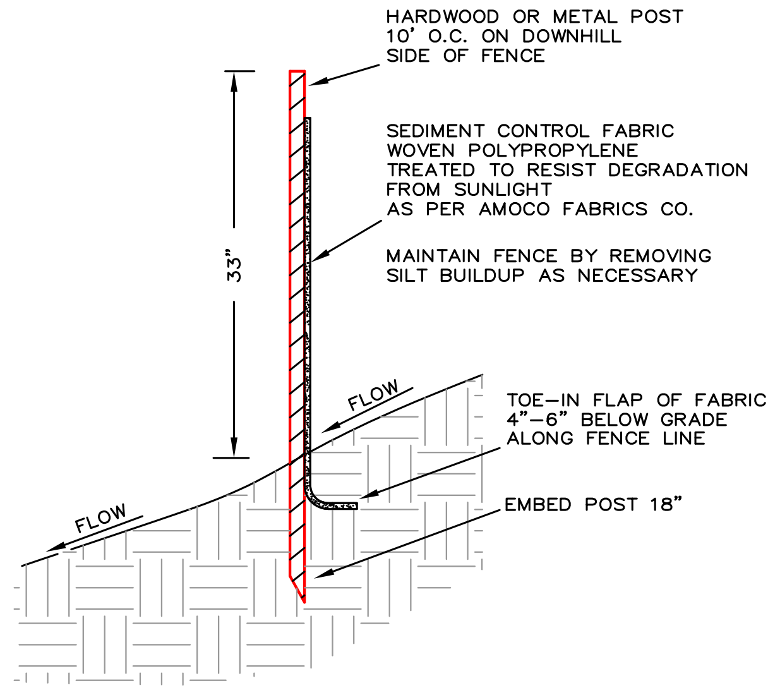
TEMPORARY STOCKPILE STABILIZATION MEASURES INCLUDE VEGETATIVE COVER, MULCH, NON-VEGETATIVE COVER, AND PERIPHERAL SEDIMENT TRAPPING BARRIERS. THE STABILIZATION MEASURE(S) SELECTED SHOULD BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, AND REQUIRED DURATION OF USE.

SEE EROSION CONTROL PLAN FOR LOCATIONS.

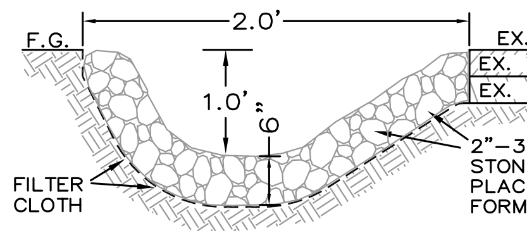
INSTALLATION NOTES

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.


HARDWOOD OR METAL POST 10' O.C. ON DOWNHILL SIDE OF FENCE
SEDIMENT CONTROL FABRIC WOVEN POLYPROPYLENE TREATED TO RESIST DEGRADATION FROM SUNLIGHT AS PER AMOCO FABRICS CO.
MAINTAIN FENCE BY REMOVING SILT BUILDUP AS NECESSARY
33"
FLOW
TOE-IN FLAP OF FABRIC 4"-6" BELOW GRADE ALONG FENCE LINE
FLOW
EMBED POST 18"

SILT FENCE
N.T.S.


F.G.
2.0'
1.0'
6"
EX. ROAD
EX. TOP COURSE
EX. BASE COURSE
2"-3" DIA. STONES PLACED TO FORM GUTTER
FILTER CLOTH

RIP-RAP GUTTER
N.T.S.

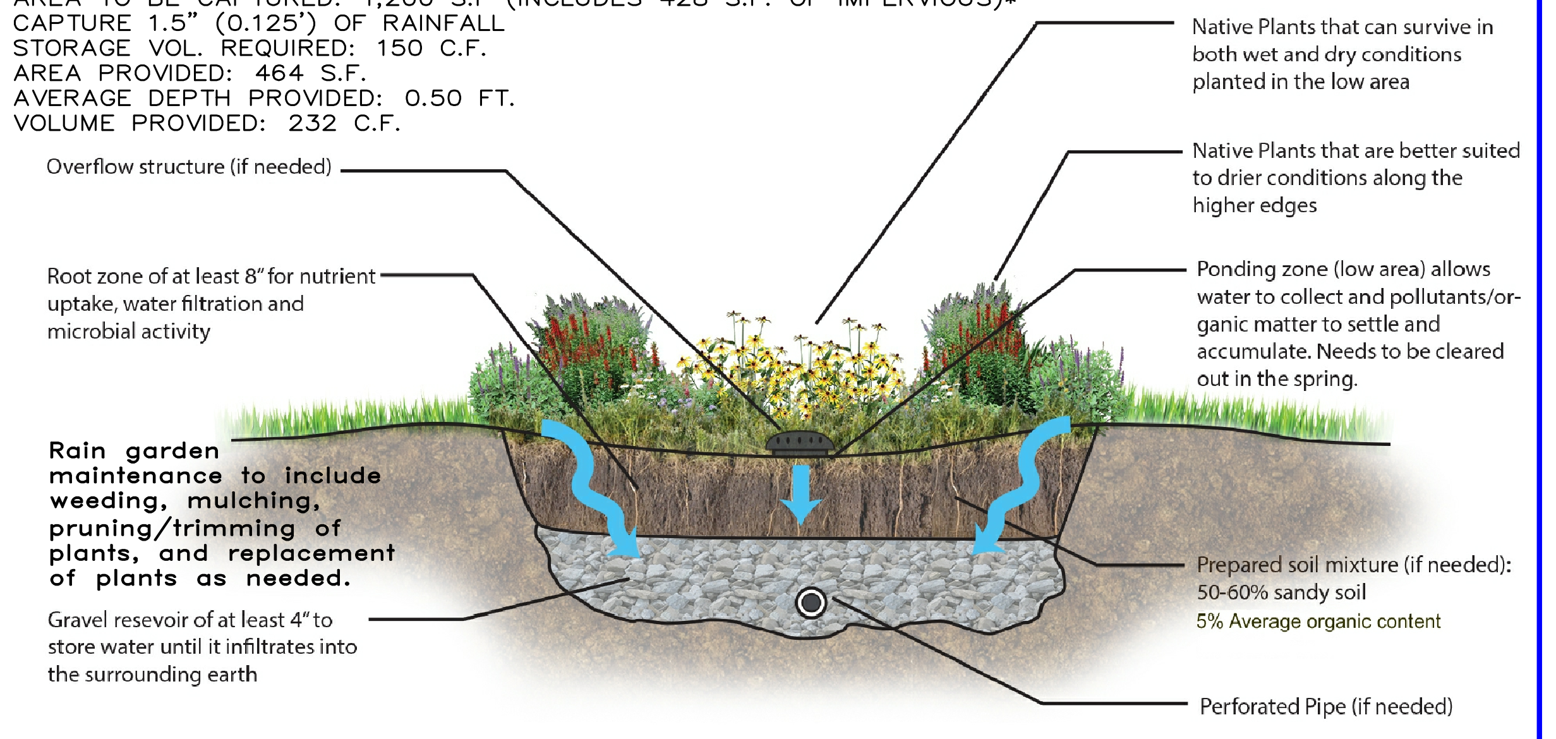
STORMWATER DEVICE MAINTENANCE SCHEDULE						NOTE: SIGNIFICANT RAINFALL=2" OR MORE		
						PRIOR TO SIGNIFICANT	AFTER SIGNIFICANT	
TEMPORARY-DURING CONSTRUCTION	DAILY	WEEKLY	MONTHLY	BI-ANNUALLY	ANNUALLY	RAINFALL	RAINFALL	SPECIAL
HAYBALES	INSPECT		INSPECT		REPLACE	INSPECT	INSPECT/CLEAN	
SILT FENCE	INSPECT		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.

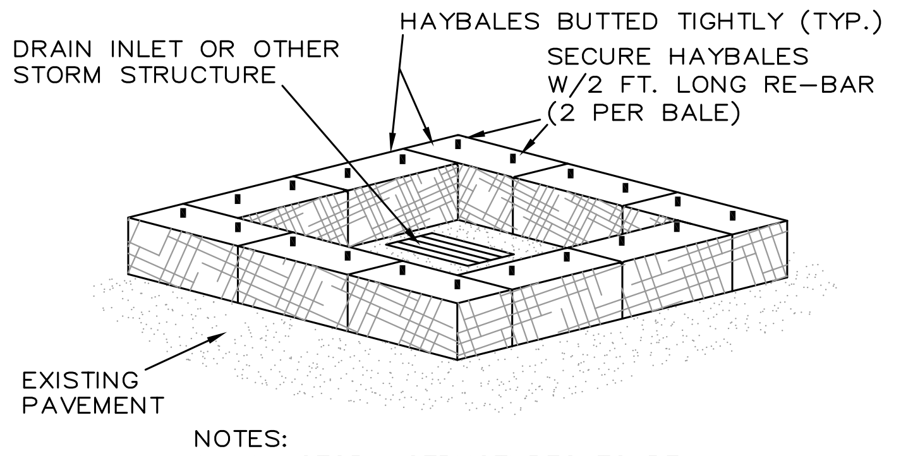
RAIN GARDEN DESIGN:
AREA TO BE CAPTURED: 1,200 S.F (INCLUDES 428 S.F. OF IMPERVIOUS)*
CAPTURE 1.5" (0.125') OF RAINFALL
STORAGE VOL. REQUIRED: 150 C.F.
AREA PROVIDED: 464 S.F.
AVERAGE DEPTH PROVIDED: 0.50 FT.
VOLUME PROVIDED: 232 C.F.

* AREA TO BE CAPTURED IS BOTH IMPERVIOUS AND PERVIOUS


Native Plants that can survive in both wet and dry conditions planted in the low area
Overflow structure (if needed)
Native Plants that are better suited to drier conditions along the higher edges
Root zone of at least 8" for nutrient uptake, water filtration and microbial activity
Ponding zone (low area) allows water to collect and pollutants/organic matter to settle and accumulate. Needs to be cleared out in the spring.
Prepared soil mixture (if needed): 50-60% sandy soil 5% Average organic content
Gravel resevoir of at least 4" to store water until it infiltrates into the surrounding earth
Perforated Pipe (if needed)

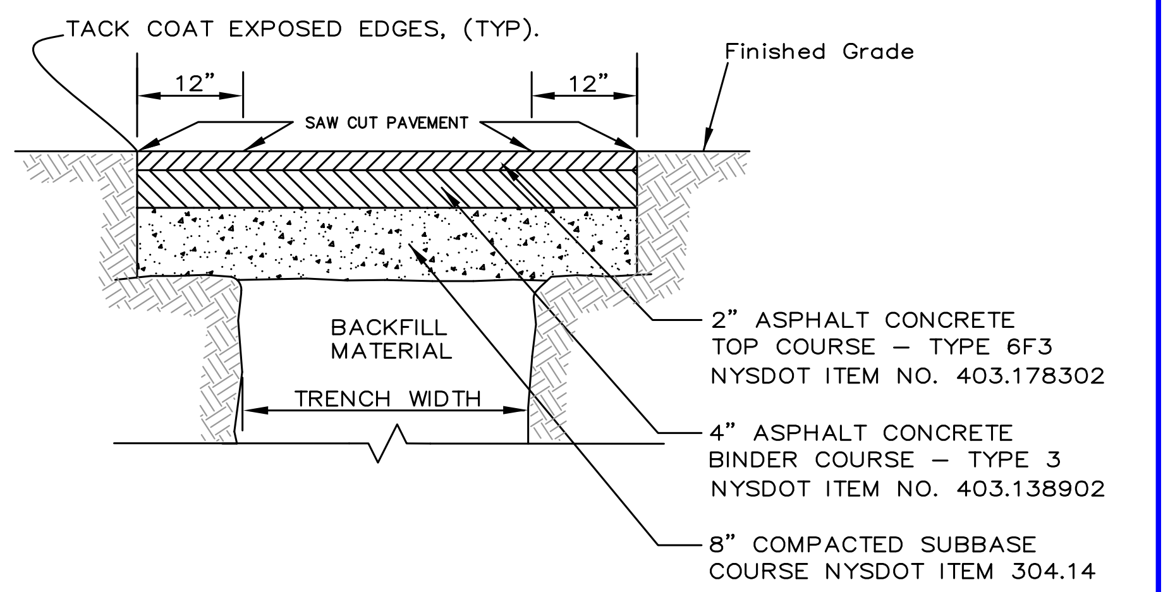
Rain garden maintenance to include weeding, mulching, pruning/trimming of plants, and replacement of plants as needed.

TYPICAL RAIN GARDEN
N.T.S.


HAYBALES BUTTED TIGHTLY (TYP.)
DRAIN INLET OR OTHER STORM STRUCTURE
SECURE HAYBALES W/2 FT. LONG RE-BAR (2 PER BALE)
EXISTING PAVEMENT

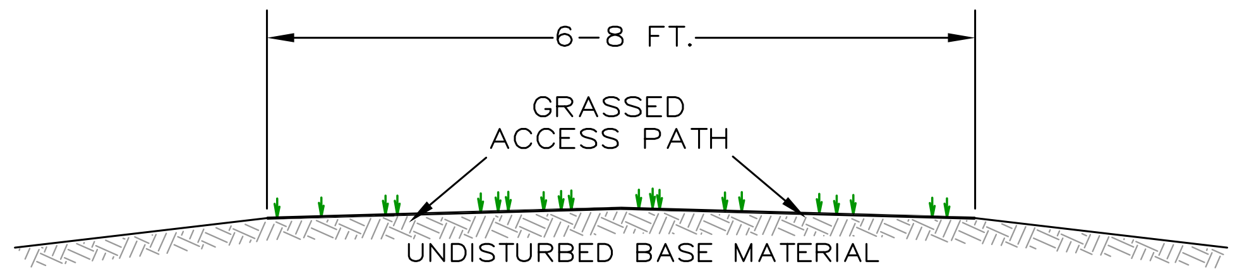
NOTES:
1. ALL STORM STRUCTURES TO BE SURROUNDED WITH STAKED HAYBALES AS SHOWN, UNTIL SITE HAS STABILIZED.
2. SEE PLANS FOR LOCATIONS

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

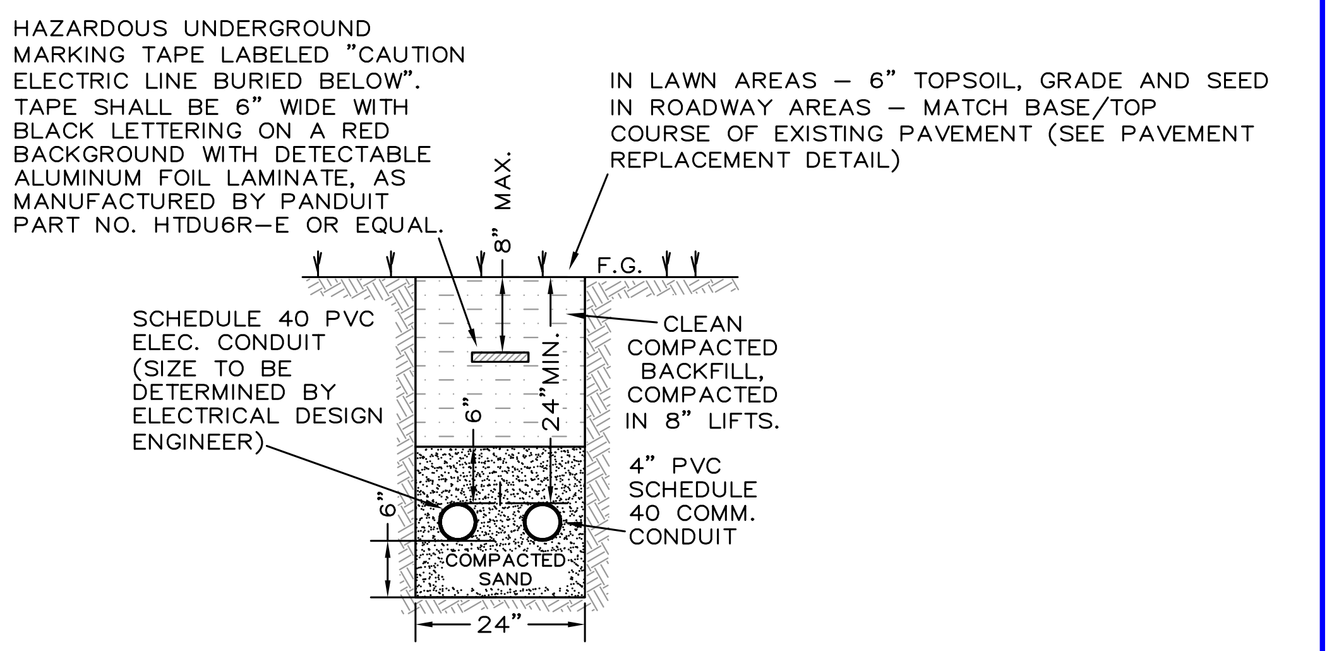

TACK COAT EXPOSED EDGES, (TYP).
12"
12"
SAW CUT PAVEMENT
Finished Grade
BACKFILL MATERIAL
TRENCH WIDTH
2" ASPHALT CONCRETE TOP COURSE - TYPE 6F3 NYSDOT ITEM NO. 403.178302
4" ASPHALT CONCRETE BINDER COURSE - TYPE 3 NYSDOT ITEM NO. 403.138902
8" COMPACTED SUBBASE COURSE NYSDOT ITEM 304.14

PAVEMENT REPLACEMENT DETAIL
N.T.S.

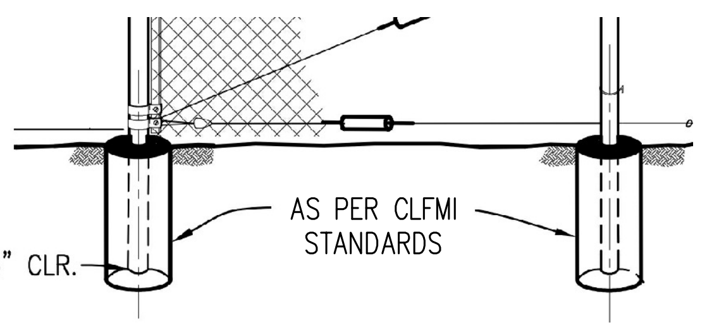
NOTE: POST CONSTRUCTION - PATHS UTILIZED BY INSTALLATION EQUIPMENT TO BE SEEDED WITH DROUGHT RESISTANT, LOW GROWING GRASS (DWARF FESCUE MIX OR SIMILAR)


6-8 FT.
GRASSED ACCESS PATH
UNDISTURBED BASE MATERIAL

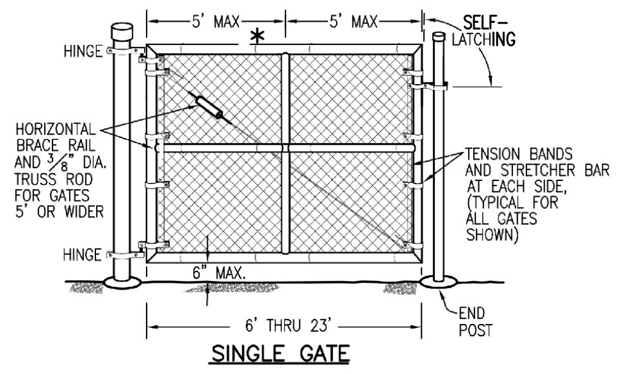
GRASSED ACCESS PATH
N.T.S.


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)
8" MAX.
F.G.
SCHEDULE 40 PVC ELEC. CONDUIT (SIZE TO BE DETERMINED BY ELECTRICAL DESIGN ENGINEER)
6"
24" MIN.
CLEAN COMPACTED BACKFILL, COMPACTED IN 8" LIFTS.
4" PVC SCHEDULE 40 COMM. CONDUIT
6"
COMPACTED SAND
24"

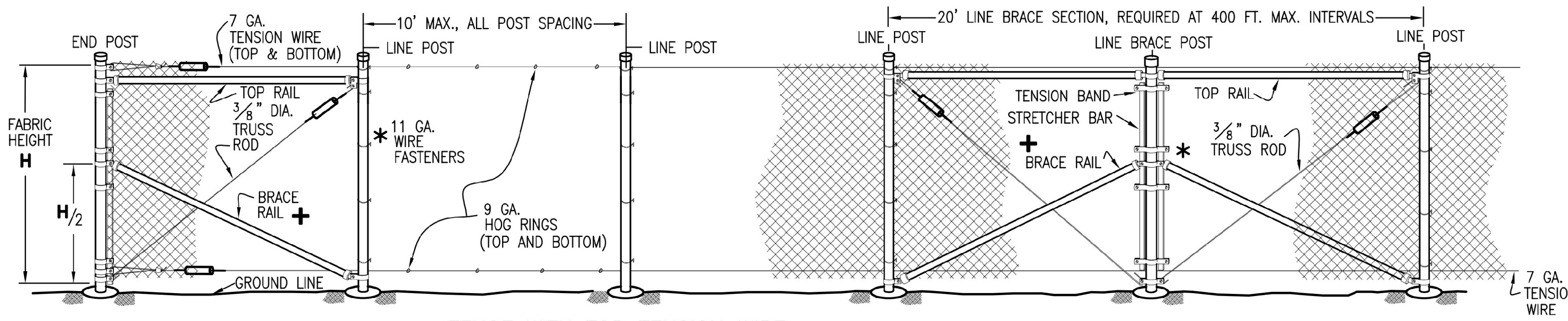
ELECTRICAL SERVICE TRENCH BEDDING DETAIL
N.T.S


AS PER CLFMI STANDARDS
3" CLR.

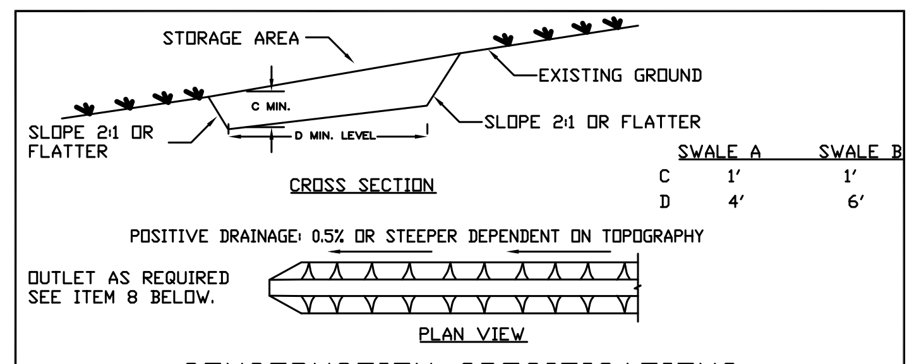
NOTES:
1. CONCRETE OR COMPACTED GRAVEL BASES TO BE UTILIZED IN AREAS OF COMPLIANT SOIL CONDITIONS. LINE POSTS IN ROCK TO BE GROUTED INTO PRE-DRILLED HOLES APPROXIMATELY EQUAL TO THE POST DIAMETER.
2. FENCING WILL BE INSTALLED PER THE "CHAIN LINK FENCING MANUFACTURING INDUSTRY" (CLFMI) STANDARDS/SPECIFCATIONS.


5' MAX
5' MAX
SELF-LATCHING
HINGE
HORIZONTAL BRACE RAIL AND 3/8" DIA. TRUSS ROD FOR GATES 5' OR WIDER
TENSION BANDS AND STRETCHER BAR AT EACH SIDE, (TYPICAL FOR ALL GATES SHOWN)
HINGE
6" MAX.
6' THRU 23'
END POST

SINGLE GATE


7 GA. TENSION WIRE (TOP & BOTTOM)
10' MAX., ALL POST SPACING
END POST
LINE POST
LINE POST
FABRIC HEIGHT H
TOP RAIL
3/8" DIA. TRUSS ROD
11 GA. WIRE FASTENERS
H/2
BRACE RAIL
9 GA. HOG RINGS (TOP AND BOTTOM)
GROUND LINE
20' LINE BRACE SECTION, REQUIRED AT 400 FT. MAX. INTERVALS
LINE POST
LINE BRACE POST
LINE POST
TENSION BAND
STRETCHER BAR
TOP RAIL
3/8" DIA. TRUSS ROD
BRACE RAIL
7 GA. TENSION WIRE

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


STORAGE AREA
EXISTING GROUND
C MIN.
SLOPE 2:1 OR FLATTER
D MIN. LEVEL
SLOPE 2:1 OR FLATTER
CROSS SECTION
POSITIVE DRAINAGE: 0.5% OR STEEPER DEPENDENT ON TOPOGRAPHY
OUTLET AS REQUIRED SEE ITEM 8 BELOW.
PLAN VIEW

	SWALE A	SWALE B
C	1'	1'
D	4'	6'

CONSTRUCTION SPECIFICATIONS

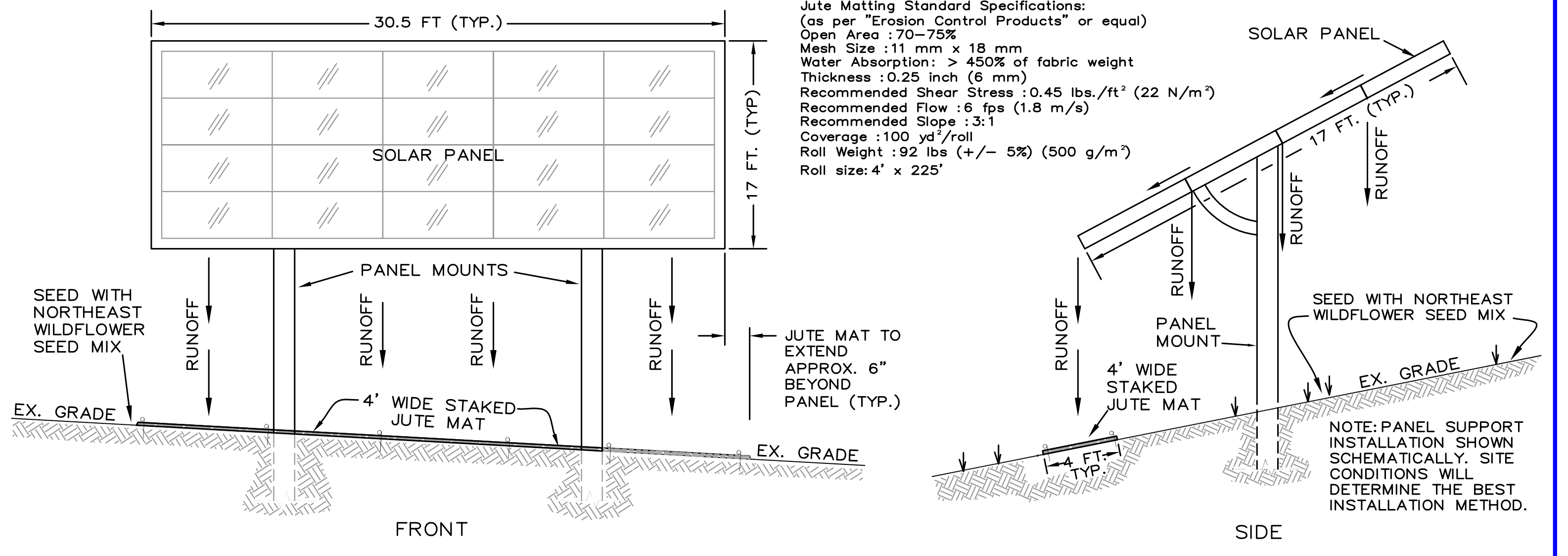
1. ALL TEMPORARY SWALES SHALL HAVE UNINTERUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
5. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
6. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
7. ALL EARTH REMOVED AND NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
8. STABILIZATION SHALL BE AS PER THE FLOW CHANNEL STABILIZATION CHART BELOW:

TYPE OF TREATMENT	CHANNEL GRADE	A(5 AC. OR LESS)	B(5 AC -10AC)
1	0.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE OR EXCELSIOR
3	5.1-8.0%	SEED WITH JUTE OR EXCELSIOR, SOD	LINED WITH 4-8' RIP-RAP OR RECYCLED CONCRETE EQUIVALENT
4	8.1-20.%	LINED WITH 4-8' RIP-RAP	ENGINEERED DESIGN

9. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

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

TEMPORARY SWALE


30.5 FT (TYP.)
SOLAR PANEL
17 FT. (TYP)
PANEL MOUNTS
SEED WITH NORTHEAST WILDFLOWER SEED MIX
RUNOFF
RUNOFF
RUNOFF
RUNOFF
JUTE MAT TO EXTEND APPROX. 6" BEYOND PANEL (TYP.)
EX. GRADE
4' WIDE STAKED JUTE MAT
EX. GRADE
FRONT
SOLAR PANEL
17 FT. (TYP.)
RUNOFF
RUNOFF
RUNOFF
RUNOFF
PANEL MOUNT
4' WIDE STAKED JUTE MAT
4 FT. TYP.
SEED WITH NORTHEAST WILDFLOWER SEED MIX
EX. GRADE
NOTE: PANEL SUPPORT INSTALLATION SHOWN SCHEMATICALLY. SITE CONDITIONS WILL DETERMINE THE BEST INSTALLATION METHOD.
SIDE

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.

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 OPERABLE 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

REVISED: 12/9/21
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

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