# LANDSCAPE PLANS

# FRONTIER ROAD SOLAR

LOCATED AT:

Frontier Road
A.P. 7, Lots 62, 62A, 63
Hopkinton, Rhode Island

PREPARED FOR THE:

REVITY ENERGY, LLC
117 Metro Center Blvd.
Warwick, Rhode Island

## SHEET INDEX

| NUMBER | TITLE | ISSUED FOR PERMITTING | REVISIONS | | | | |
|---|---|---|---|---|---|---|---|
| | COVER SHEET | | | | | | |
| 1 | LANDSCAPE PLAN | 04-17-2020 | 04-28-2020 | 05-18-2020 | 06-22-2020 | 07-28-2020 | 08-20-2020 |
| 2 | CROSS SECTIONS 1, 2, & 3 | 04-17-2020 | 04-28-2020 | | | 07-28-2020 | |
| 3 | CROSS SECTIONS 4, 5, & 6 | 04-17-2020 | 04-28-2020 | 05-18-2020 | | 07-28-2020 | 08-20-2020 |
| 4 | PLANTING PLAN & DETAILS | 05-18-2020 | | | 06-22-2020 | 07-28-2020 | 08-20-2020 |


PREPARED BY:

JOHN C. CARTER & CO., INC.

960 BOSTON NECK RD., NARRAGANSETT, RI
(401) 783 - 3500

LANDSCAPE ARCHITECTURE
DESIGN & BUILD

ENGINEER
DiPrete Engineering
2 Stafford Court
Cranston, Rhode Island
401-943-1000


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## NOTES:

### GENERAL:

1. THE EXISTING AND PROPOSED CONTOURS AND OTHER SITE INFORMATION WAS PROVIDED BY DIPRETE ENGINEERING AND SUPPLEMENTED WITH OBSERVATIONS PERFORMED BY JOHN C. CARTER & CO.
2. ALL PROPERTY LINES DEPICTED ON THIS PLAN ARE PICTORIAL ONLY. THIS PLAN IS TO BE USED FOR THE SELECTION, LOCATION AND INSTALLATION OF LANDSCAPE MATERIALS AND FEATURES ONLY AND IS NOT TO BE USED FOR ANY OTHER PURPOSE. ALL FOUNDATIONS, RETAINING WALLS AND DRAINAGE COMPONENTS SHALL BE STAKED OUT BY THE ENGINEER OR SURVEYOR.
3. WRITTEN DIMENSIONS AND SPECIFICATIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
4. THE LOCATION OF ANY UTILITIES IF SHOWN ON THIS PLAN ARE APPROXIMATE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES BEFORE ANY EXCAVATION. DIG-SAFE SHALL BE CONTACTED AT LEAST 72 HOURS BEFORE EXCAVATION. DIG-SAFE CAN BE REACHED AT 1-888-344-7233.

## LANDSCAPE NARRATIVE

### EXISTING CONDITIONS

THE EXISTING SITE IS AN ABANDONED GOLF FACILITY WITH ROLLING TOPOGRAPHY AND THE BEGINNING OF A SUCCESSIONAL FIELD GROWTH. IN ADDITION TO FIELD GRASSES, THE SITE INCLUDES MANY WHITE PINES (PINUS STROBUS) AND EASTERN RED CEDAR (JUNIPERUS VIRGINIANA) WHICH RANGE IN HEIGHT FROM 6' TO 10'. THE EXISTING VEGETATION ALONG THE PERIMETER OF THE SITE INCLUDES SPECIES OF THE RED OAK FAMILY (QUERCUS SP.), WHITE PINE, RED CEDAR, AND A VARIETY OF DECIDUOUS UNDERSTORY SHRUBS.

IT IS THE INTENT OF THE PROJECT DEVELOPERS TO ESTABLISH A VISUAL SCREEN FROM THE ADJACENT PROPERTIES TO THE PROPOSED SOLAR PANELS BY USING COMBINATIONS OF EARTHEN BERMS, SOLID BOARD FENCES AND BUFFER PLANTINGS.

AS PROPOSED, THE REUSE OF THE EXISTING OPEN FIELD PRESENTS AN OPPORTUNITY TO DEVELOP THE SOLAR ARRAY WITHOUT REMOVING ANY SIGNIFICANT QUANTITY OF TREES.

### VIEW ANALYSIS

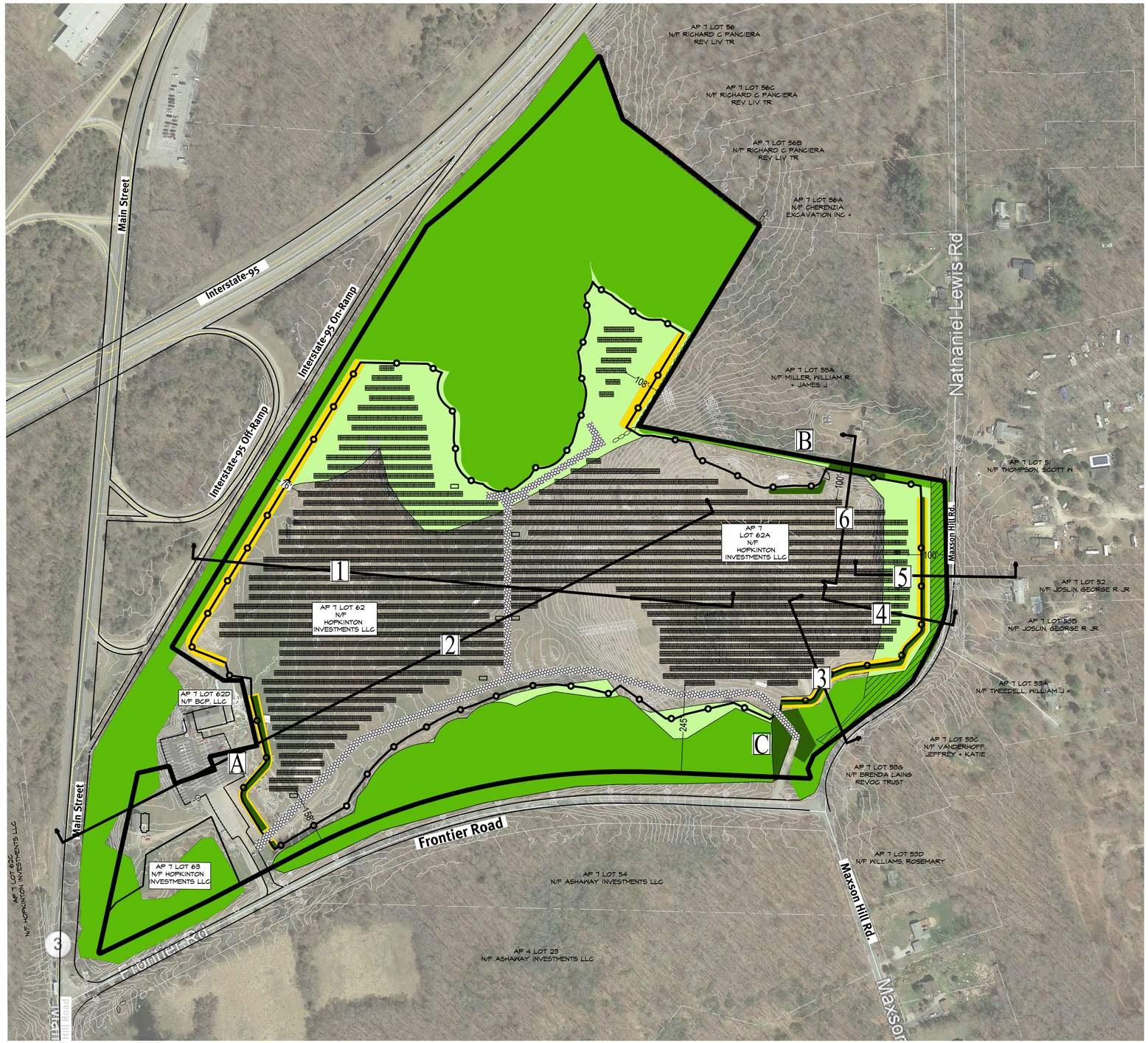
AS SHOWN ON SHEETS 2 AND 3, SIX TRANSECTS WERE CUT THROUGH THE SITE IN AREAS WHICH WERE SELECTED TO BE REPRESENTATIONAL OF THE VIEWS FROM THE SURROUNDING PROPERTIES.

THE PROPOSED TOPOGRAPHY WAS DRAWN AND THE SOLAR PANELS WERE SITED AT THEIR PROPOSED LOCATIONS AND ELEVATIONS. AN EYE HEIGHT OF 5' ABOVE GROUND LEVEL WAS ESTABLISHED AND A SITE LINE WAS PROJECTED TO THE HIGHEST VISIBLE PANEL, THEN THE HEIGHT OF THE VISUAL BARRIER WAS DETERMINED.

THE MAXIMUM HEIGHT OF THE PANELS WILL BE 12' AND MAY BE LOWER.

### BARRIER CONSTRUCTION

THE VISUAL BARRIERS ARE TO BE CONSTRUCTED FROM A COMBINATION OF EARTHEN BERMS, SOLID WOOD FENCES AND SUPPLEMENTAL PLANTING. THE WIDTH AND HEIGHT OF THE BERMS VARY DEPENDING ON THE LOCATION, THE FENCE WILL BE CONSISTENTLY 6' TALL.




0' 150' 300' 450' 600'
GRAPHIC SCALE

N
W E
S

### LEGEND

- EXISTING VEGETATION TO BE REMOVED
- EXISTING VEGETATION TO REMAIN
- PROPOSED VEGETATION TO BE ADDED
- AREA OF SELECTIVE CLEARING
- BERM
- (PL) PROPERTY LINE
- 6' HIGH CHAINLINK FENCE
- TRANSECT LINE (3)
- AREA OF PLANTINGS (A)

JOHN C. CARTER & CO., INC.
960 BOSTON NECK RD. NARRAGANSETT, RI
(401) 783-3500

LANDSCAPE ARCHITECTURE
DESIGN & BUILD

# LANDSCAPE PLAN

## FRONTIER ROAD SOLAR

PREPARED FOR:
REVITY ENERGY, LLC

LOCATED AT:
FRONTIER ROAD
A.P. 7, LOTS 62, 62A, 63
HOPKINTON, RHODE ISLAND

REGISTERED LANDSCAPE ARCHITECT
JOHN C. CARTER
NO. 206

REVISIONS

August 20, 2020 Solid board fence changed to chain-link.
July 28, 2020 - Trees added
June 22, 2020 Modified planting in northwest corner.
May 18, 2020 - Existing & proposed contours and reference labels added, #5 cross section line extended.
April 28, 2020 - Labeled distance from property line to panels.

SCALE: 1" = 150'
DATE: April 17, 2020

ISSUED FOR PERMITTING

SHEET NUMBER
1 OF 4

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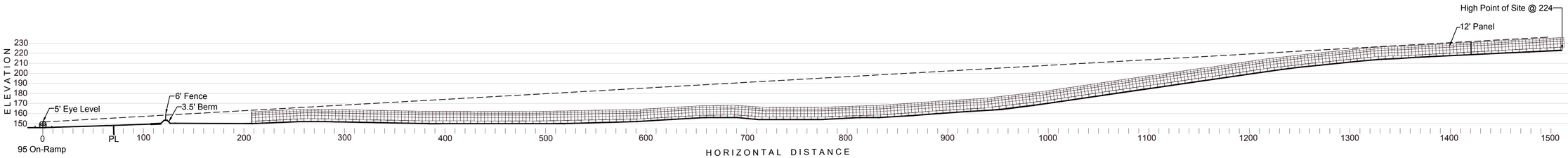
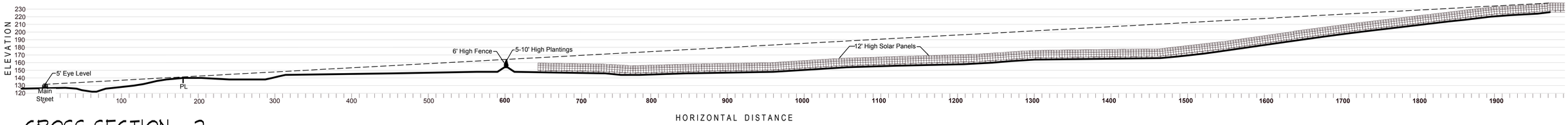
DRAWN BY: LMW



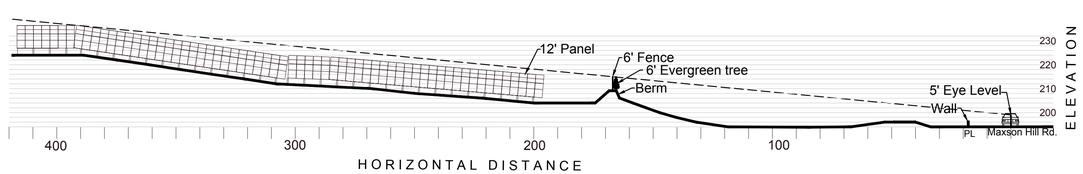

## CROSS SECTION - 1

SCALE: 1" = 50'



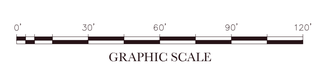

## CROSS SECTION - 2

SCALE: 1" = 60'




## CROSS SECTION - 3

SCALE: 1" = 30'

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LANDSCAPE ARCHITECTURE
DESIGN & BUILD

# FRONTIER ROAD SOLAR

CROSS SECTIONS - 1, 2 & 3

REVITY ENERGY, LLC

Frontier Road

A.P. 7, Lots 62, 62A, 63

Hopkinton, Rhode Island

ISSUED FOR PERMITTING

DATE: April 17, 2020

Revised: April 28, 2020 - Property line labeled.

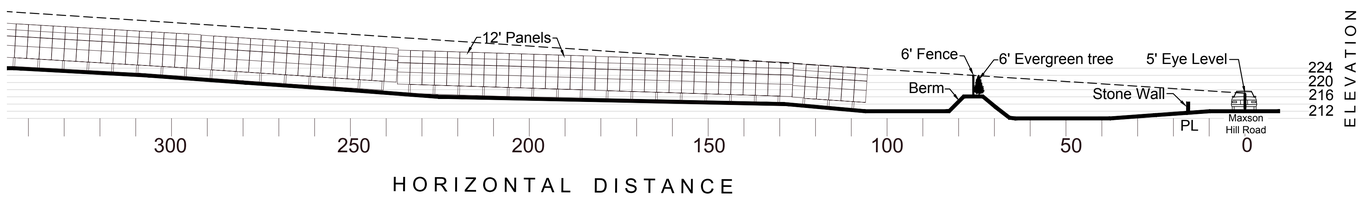
Revised May 18, 2020 : Cross section #2 labels

Revised July 28, 2020: Evergreen trees added.

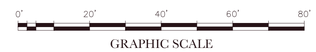
SCALE: As noted

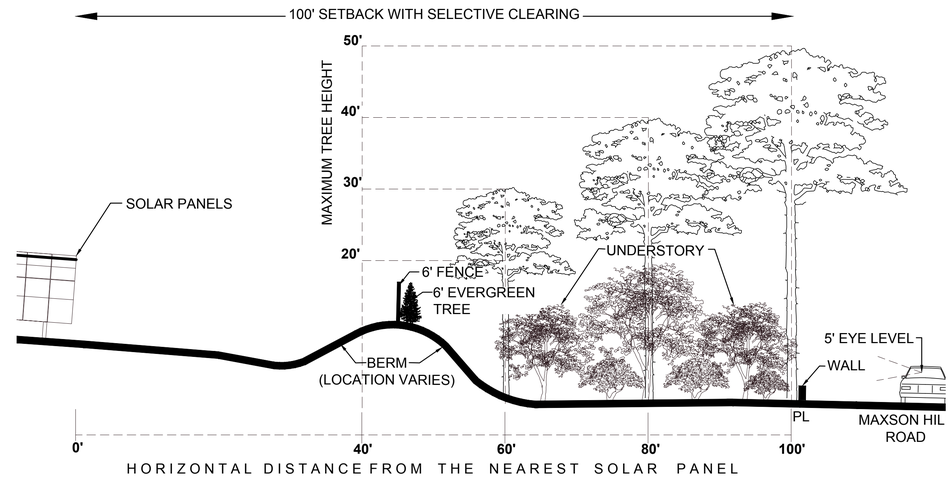
SHEET 2 OF 4

DRAWN BY: LMW



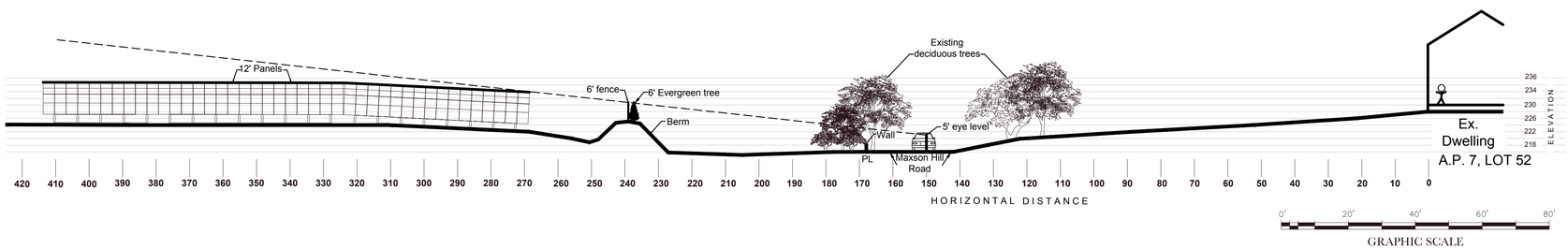

## CROSS SECTION - 4
SCALE 1" = 20'



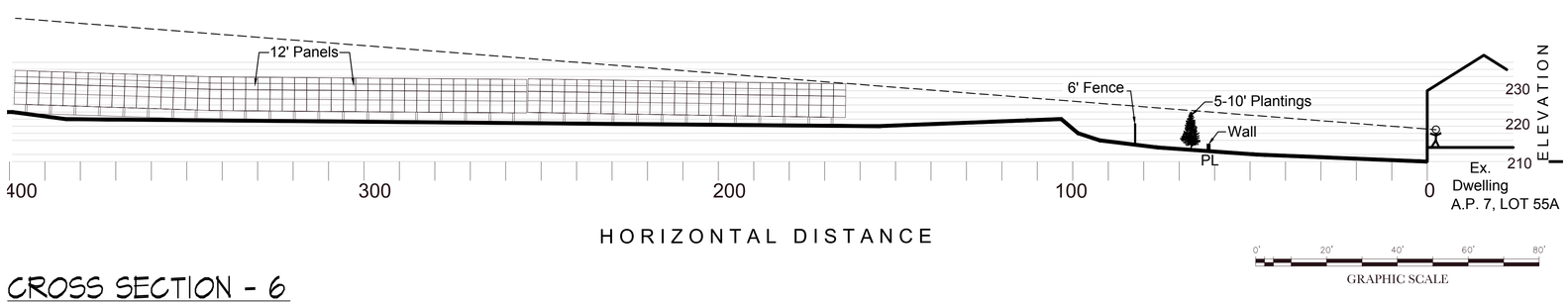




- TO FURTHER ENHANCE SCREENING THE VIEW OF THE PROPERTY FROM MAXSON HILL ROAD, THE APPLICANT SHALL SELECTIVELY LEAVE EXISTING VEGETATION AND INSTALL ADDITIONAL TREES IN THE SETBACK AREA ALONG MAXSON HILL ROAD. TO THIS END, TREES FROM ON SITE, INSTEAD OF BEING CUT, WILL BE MOVED FROM OTHER AREAS AND REPLANTED ALONG MAXSON HILL ROAD. UPON ESTABLISHMENT OF SAID SETBACK AREA TREES, THE MAXSON HILL ROADWAY WILL BE FURTHER SUPPLEMENTED WITH LOW-LYING PLANTS, SHRUBS OR GROUNDCOVER TO ENHANCE THE VIEW ALONG MAXSON HILL ROAD.
- DURING INITIAL SOLAR FIELD CONSTRUCTION, SELECTIVE TREE REMOVAL WILL TAKE PLACE WITHIN THE REMAINING AREA DEPICTED, PROVIDED THAT DURING THIS TIME TREES MAY ONLY BE REMOVED TO PREVENT SHADE ON THE SOLAR PANELS AND THE APPLICANT SHALL COMPLY WITH THE 2:1 DISTANCE TO HEIGHT RATIO DEPICTED.
- DURING SELECTIVE TREE REMOVAL ACTIVITY, ALL REASONABLE PRECAUTIONS WILL BE TAKEN TO PROTECT THE UNDERSTORY TREES AND SHRUBS TO THE EXTENT PRACTICABLE.
- AFTER SELECTIVE TREE REMOVAL IS COMPLETED AND THE BERM IS CONSTRUCTED, THE VISIBILITY OF THE PANELS FROM MAXSON HILL ROAD WILL BE ASSESSED AND THE UNDERSTORY WILL BE SUPPLEMENTED WITH ADDITIONAL EVERGREEN PLANTINGS.
- ONGOING PERIODIC PROPERTY MAINTENANCE WITHIN THE SETBACK AREA SHALL BE PERFORMED TO MAINTAIN MAXIMUM TREE HEIGHTS, SUBJECT TO THE DISTANCE TO HEIGHT RATIO; TO REPAIR OR REPLACE THE BERM, FENCING, OR TREES PLANTED ALONG THE FENCE; OR TO REMOVE AND/OR REPLACE DISEASED, DEAD OR FALLEN TREES OR LIMBS.

## SHADE ANALYSIS - MAXIMUM TREE HEIGHT
SCALE 1" = 10'




## CROSS SECTION - 5
SCALE 1" = 20'




## CROSS SECTION - 6
SCALE 1" = 20'

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LANDSCAPE ARCHITECTURE
DESIGN & BUILD

# FRONTIER ROAD SOLAR
## CROSS SECTIONS- 4, 5 & 6
REVITY ENERGY, LLC

ISSUED FOR PERMITTING

Frontier Road
A.P. 7, Lots 62, 62A, 63
Hopkinton, Rhode Island
DATE: April 17, 2020

REGISTERED LANDSCAPE ARCHITECT JOHN C. CARTER NO. 206

Revised: April 28, 2020 Property line & Matson Rd labeled.
Revised May 18, 2020 : Cross section #5 extended to abutter residence
Revised July 28, 2020: Evergreen trees added.
Revised August 20, 2020: Shade Analysis added

SCALE: AS NOTED
SHEET 3 OF 4
DRAWN BY: LMW

## NOTES:

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**PLANTING:**

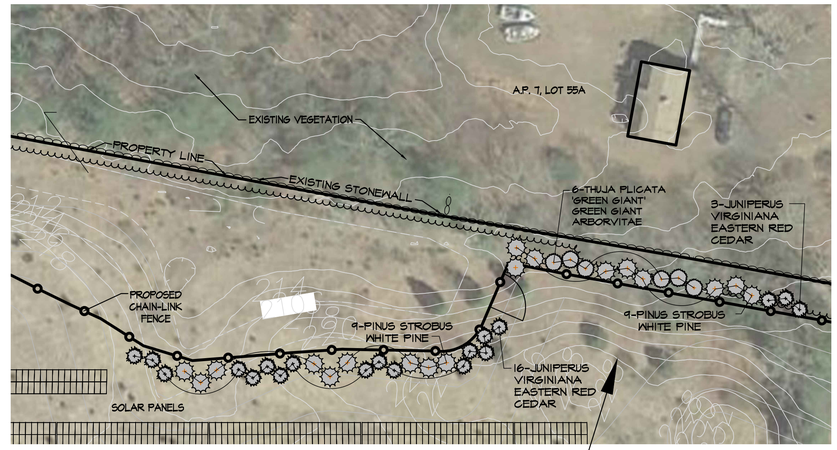
1. WHEN POSSIBLE, THE WHITE PINES AND RED CEDARS THAT EXIST ON THE SITE SHALL BE USED IN THE BUFFER PLANTINGS.
2. PLANTS ARE TO BE INSTALLED AS SPECIFIED IN THE PLANTING DETAILS WITH ADEQUATE WATER PROVIDED DURING PLANTING TO ALLOW COMPACTION OF THE PLANTING SOIL TO PREVENT ANY AIR POCKETS OR SETTLEMENT AFTER PLANTING.
3. RECOMMENDED PLANTING DATES ARE APRIL 15 TO JUNE 15 AND SEPTEMBER 15 TO NOVEMBER 15.
4. PLANT SUBSTITUTIONS SHALL BE ALLOWED BASED ON AVAILABILITY AND SITE CONDITIONS. SUBSTITUTIONS MAY BE MADE ONLY WITH DIRECT APPROVAL FROM THE LANDSCAPE ARCHITECT OR OWNER.

**GRASS SEED MIX:**

**ENERGYSCAPE SOLAR LOW/SLOW GROWING MIX**

25% CHEWINS FESCUE
25% SHEEP FESCUE
12.5% HARD FESCUE
12.5% STRONG CREEPING RED FESCUE
12.5% CREEPING RED FESCUE
12.5% HARD FESCUE

- PROVIDE QUALITY SEED DERIVED FROM THE VARIETY INDICATED UNDER 'SEEDING'.
- ALL SEED IS TO BE VIABLE, HEALTHY AND FREE OF INSECTS AND DISEASE.
- SEED SUBSTITUTIONS SHALL BE ALLOWED BASED ON AVAILABILITY ONLY WITH DIRECT APPROVAL FROM THE OWNER.




## PLANTING AREA - 'B'

0' 40' 80'
GRAPHIC SCALE
1" = 40'



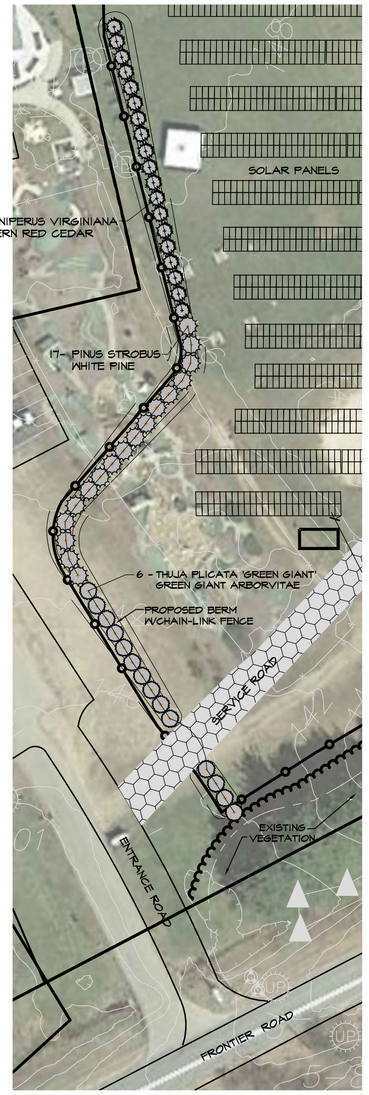
EXISTING WHITE PINES (6-10' HT.) AND RED CEDARS (5-10' HT.) ARE TO BE RELOCATED AND USED FOR VISUAL SCREENING



THE EXISTING 20' TALL SPRUCE AND ARBORVITAE ARE TO BE RELOCATED AND USED FOR VISUAL SCREENING.

**PLANT LIST AREA 'B'**

| AMOUNT | BOTANICAL NAME | COMMON NAME | SIZE | SPACING |
|---|---|---|---|---|
| 18 | PINUS STROBUS | EASTERN WHITE PINE | 6-10' HT. | 10' O.C. |
| 6 | THUJA PLICATA 'GREEN GIANT' | GREEN GIANT ARBORVITAE | 6-10' HT. | 10' O.C. |
| 19 | JUNIPERUS VIRGINIANA | EASTERN RED CEDAR | 5-10' HT. | 8' O.C. |

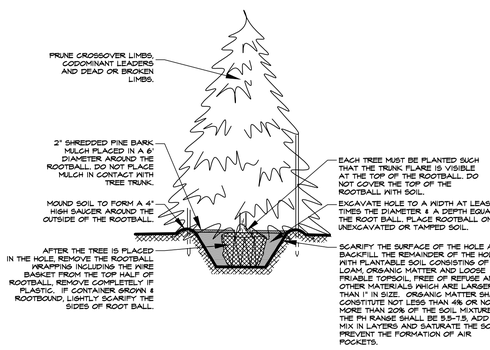



## PLANTING AREA - 'A'

0' 40' 80'
GRAPHIC SCALE
1" = 40'

**PLANT LIST AREA 'A'**

| AMOUNT | BOTANICAL NAME | COMMON NAME | SIZE | SPACING |
|---|---|---|---|---|
| 17 | PINUS STROBUS | EASTERN WHITE PINE | 6-10' HT. | 10' O.C. |
| 14 | THUJA PLICATA 'GREEN GIANT' | GREEN GIANT ARBORVITAE | 6-10' HT. | 10' O.C. |
| 19 | JUNIPERUS VIRGINIANA | EASTERN RED CEDAR | 5-10' HT. | 8' O.C. |




EVERGREEN TREE PLANTING DETAIL
NOT TO SCALE
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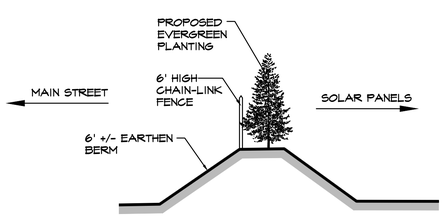



**BERM'S SEED MIX:**

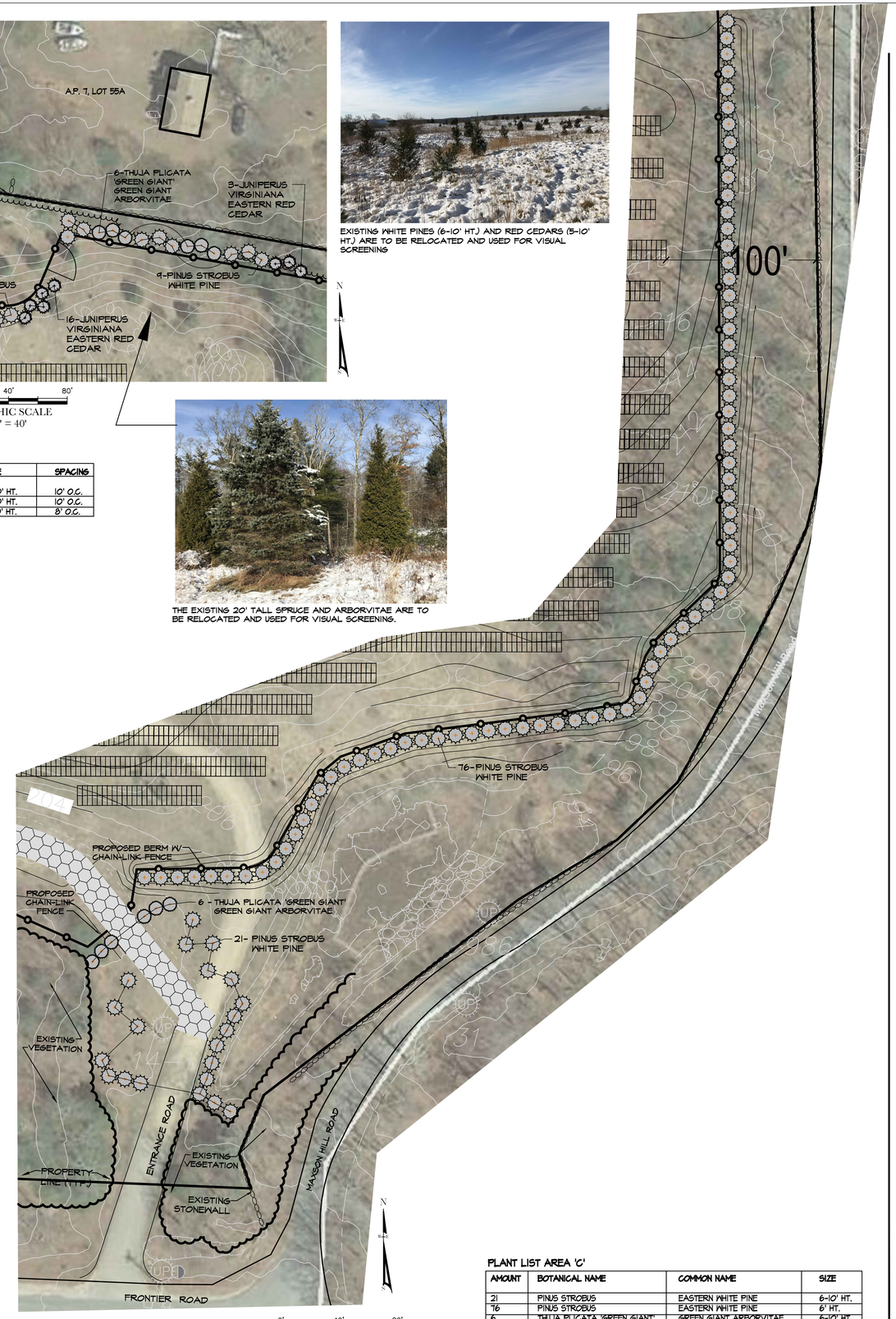
ALLEN'S CONSERVATION SEED MIX

| | |
|---|---|
| PERENNIAL RYE GRASS | 25% |
| CREEPING RED FESCUE | 25% |
| ANNUAL RYEGRASS | 25% |
| TURF TYPE TALL FESCUE | 17% |
| KENTUCKY BLUEGRASS | 5% |
| COLONIAL BENTGRASS | 1% |
| RED TOP | 1% |
| WHITE CLOVER | 1% |

AVAILABLE FROM ALLEN'S SEED STORE, SOUTH COUNTY TRAIL, EXETER RI, PHONE 800-527-3948 OR 401-294-2722 OR APPROVED EQUAL. APPLY AT A RATE OF 20-25 LBS PER ACRE.

**PLANTING AREA A: PROPOSED BERM, PLANTING & FENCE**

NOTE: IN AN EFFORT TO PROVIDE ADDITIONAL SCREENING, A 6' (+/-) BERM WITH A 6-FOOT CHAIN-LINK FENCE AND 6-FOOT EVERGREEN TREES ON TOP OF THE BERM WILL BE INSTALLED/PLANTED AS DEPICTED. THE APPLICANT SHALL ALSO PLANT 'ALLEN'S CONSERVATION MIX' SEED MIX ON THE BERM TO PREVENT EROSION.




## PLANTING AREA - 'C'

0' 40' 80'
GRAPHIC SCALE
1" = 40'

**PLANT LIST AREA 'C'**

| AMOUNT | BOTANICAL NAME | COMMON NAME | SIZE |
|---|---|---|---|
| 21 | PINUS STROBUS | EASTERN WHITE PINE | 6-10' HT. |
| 76 | PINUS STROBUS | EASTERN WHITE PINE | 6' HT. |
| 6 | THUJA PLICATA 'GREEN GIANT' | GREEN GIANT ARBORVITAE | 6-10' HT. |

6' HIGH THUJA PLICATA 'GREEN GIANT' (ARBORVITAE) MAY BE SUBSTITUTED FOR THE PINUS STROBUS

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LANDSCAPE ARCHITECTURE
DESIGN & BUILD

# PLANTINGS & DETAILS

FRONTIER ROAD SOLAR

PREPARED FOR:
REVITY ENERGY, LLC

LOCATED AT:
FRONTIER ROAD
A.P. 7, LOTS 62, 62A, 63
HOPKINTON, RHODE ISLAND

REGISTERED LANDSCAPE ARCHITECT
JOHN C. CARTER
NO. 206

REVISIONS

August 20, 2020 Berm seed mix and note added. Changed solid board fence to chain-link.
July 28, 2020 Evergreen trees added
June 22, 2020 Modified planting in northwest corner.

SCALE: AS NOTED
DATE: May 18, 2020

ISSUED FOR PERMITTING

SHEET NUMBER
4 OF 4

DRAWN BY: LMW