# **Appendix E**

## LANDSCAPE PLAN

**Lost City Renewables LLC** 

Muhlenberg County, Kentucky



DRAWING REVISIONS

LEGEND - LANDSCAPE PLAN DESCRIPTION STANDARD PLANTING DOUBLE PLANTING NO ADDITIONAL PLANTING LEGEND - GENERAL DESCRIPTION FENCE PHOTOVOLTAIC PANEL INVERTER DNO

> **PRELIMINARY NOT FOR** CONSTRUCTION 12/20/2024



						Stantec
						Stantec Consulting Services Inc.
В	ISSUED FOR REVIEW	RB	SL	AC	12/20/2024	50 Derby Street 3052 Beaumont Centre Circle Suite 260 Lexington, Kentucky
A	ISSUED FOR REVIEW	RB	SL	AC	11/26/2024	Hingham, MA U.S.A. 40513-1703 U.S.A. 02043
REV.	DESCRIPTION	DRAWN	CHKD	APPRVD	DATE	www.stantec.com

FILE NAME: 2057322000 Lost City Solar.dwg

IND. REVIEW

PROJECT NO:

2057322000

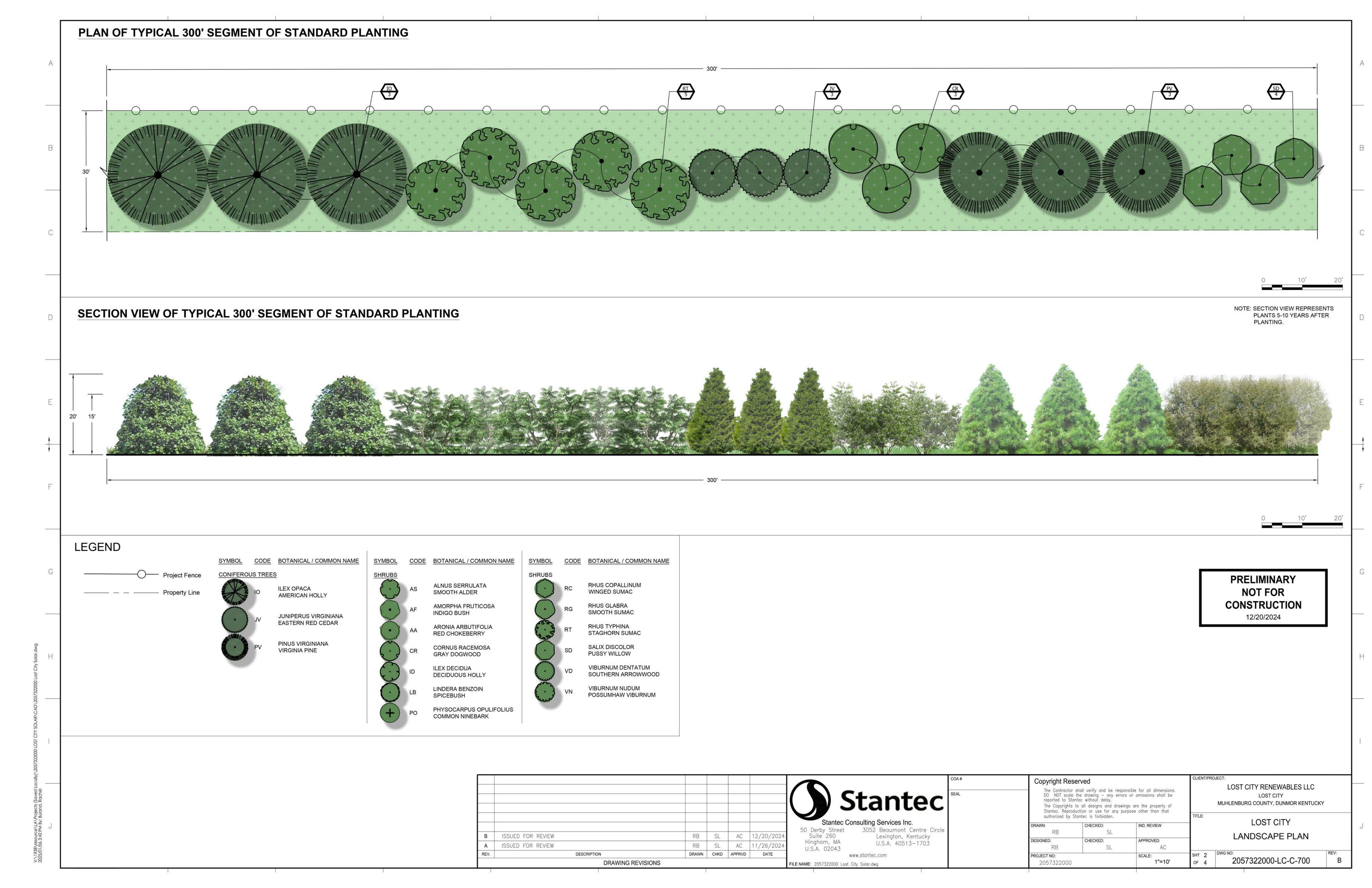
MUHLENBURG COUNTY, DUNMOR KENTUCKY LOST CITY APPROVED: CHECKED:

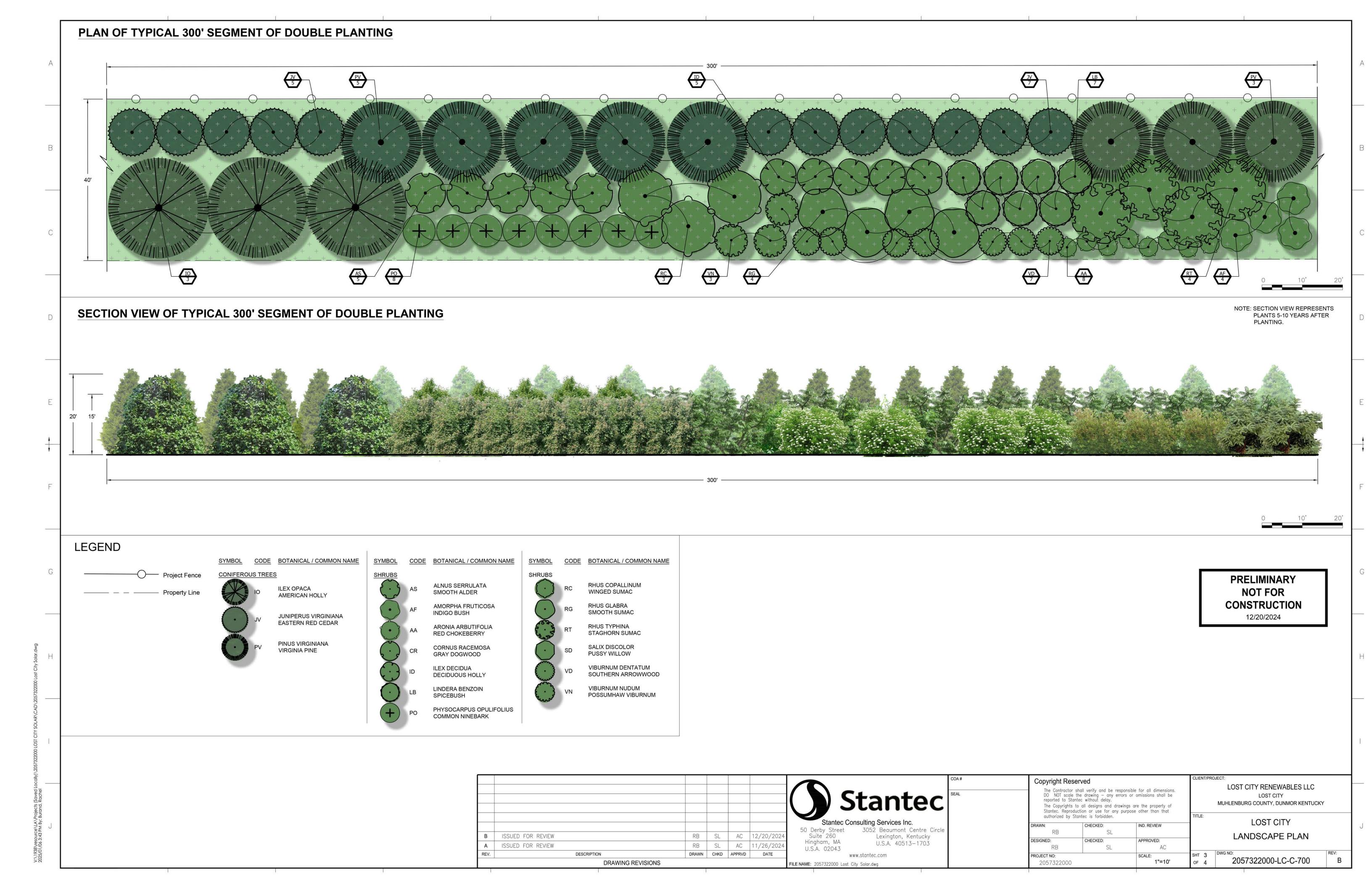
1"=800'

OVERALL LANDSCAPE PLAN

LOST CITY

2057322000-LC-C-700





PLANT	SCHEDU	LE							
QTY		BOTANICAL NAME	COMMON NAME	USDA PLANTING ZONE	APPROXIMATE MATURE HEIGHT	APPROXIMATE MATURE SPREAD	AVERAGE ANNUAL GROWTH	SPECIFICATION	NOTES
TREES									
305	10	ILEX OPACA	AMERICAN HOLLY	5 TO 9	15' TO 35'	20' TO 35'	6"	MIN. 4'-5' HEIGHT - CONTAINER / B&B	SPACE PLANTS AS
1,034	JV	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	2 TO 9	40' TO 50'	12' TO 15'	12" TO 18"	MIN. 4'-5' HEIGHT - CONTAINER / B&B	SHOWN IN TYPICAL
710	PV	PINUS VIRGINIANA	VIRGINIA PINE	4 TO 8	40' TO 80'	10' TO 30'	8" TO 12"	MIN. 4'-5' HEIGHT - CONTAINER / B&B	LAYOUT
2,048	TOTAL TRE	ES							
SHRUBS									
405	AS	ALNUS SERRULATA	SMOOTH ALDER	4 TO 9	10' TO 15'	10' TO 15'	12"	MIN. 3' HEIGHT - CONTAINER / B&B	
324	AF	AMORPHA FRUTICOSA	INDIGO BUSH	4 TO 9	4' TO 15'	6' TO 15'	12"	MIN. 3' HEIGHT - CONTAINER / B&B	
648	AA	ARONIA ARBUTIFOLIA	RED CHOKEBERRY	4 TO 9	6' TO 10'	3' TO 6'	12"	MIN. 3' HEIGHT - CONTAINER / B&B	
61	CR	CORNUS RACEMOSA	GRAY DOGWOOD	3 TO 8	10' TO 15'	10' TO 15'	8" TO 12"	MIN. 3' HEIGHT - CONTAINER / B&B	
405	ID	ILEX DECIDUA	DECIDUOUS HOLLY	5 TO 9	10' TO 15'	5' TO 12'	12" TO 18"	MIN. 3' HEIGHT - CONTAINER / B&B	
567	LB	LINDERA BENZOIN	SPICEBUSH	4 TO 9	6' TO 12'	6' TO 12'	12" TO 18"	MIN. 3' HEIGHT - CONTAINER / B&B	SPACE PLANTS AS
648	PO	PHYSOCARPUS OPULIFOLIUS	COMMON NINEBARK	2 TO 8	5' TO 8'	6' TO 10'	18" TO 24"	MIN. 3' HEIGHT - CONTAINER / B&B	SHOWN IN TYPICAL
243	RC	RHUS COPALLINUM	WINGED SUMAC	4 TO 9	7' TO 15'	10' TO 20'	12"	MIN. 3' HEIGHT - CONTAINER / B&B	LAYOUT
324	RG	RHUS GLABRA	SMOOTH SUMAC	3 TO 9	9' TO 15'	9' TO 15'	12" TO 18"	MIN. 3' HEIGHT - CONTAINER / B&B	
427	RT	RHUS TYPHINA	STAGHORN SUMAC	3 TO 8	15' TO 25'	20' TO 30'	12" TO 18"	MIN. 3' HEIGHT - CONTAINER / B&B	
82	SD	SALIX DISCOLOR	PUSSY WILLOW	4 TO 8	10' TO 20'	8' TO 12'	12" TO 24"	MIN. 3' HEIGHT - CONTAINER / B&B	
567	VD	VIBURNUM DENTATUM	SOUTHERN ARROWWOOD	3 TO 8	3' TO 9'	6' TO 8'	12" TO 24"	MIN. 3' HEIGHT - CONTAINER / B&B	
243	VN	VIBURNUM NUDUM	POSSUMHAW VIBURNUM	5 TO 9	5' TO 12'	5' TO 12'	12"	MIN. 3' HEIGHT - CONTAINER / B&B	
4,946	TOTAL SH	RUBS							

1. MATURE HEIGHT, MATURE SPREAD, AND AVERAGE ANNUAL GROWTH IS APPROXIMATE. ACTUAL MATURE HEIGHT, MATURE SPREAD, AND ANNUAL GROWTH MAY VARY.

2. PROJECT IS LOCATED IN USDA PLANTING ZONE 7A (MUHLENBERG COUNTY, KENTUCKY).

3. PLANTING SPECIES ARE REPRESENTATIVE OF DESIGN INTENT. ACTUAL SPECIES MAY VARY BASED ON AVAILABILITY OF LOCAL NURSERY STOCK. CONTRACTOR MAY SUBMIT ALTERNATE SPECIES REQUEST FOR

APPROVAL BY LANDSCAPE ARCHITECT.

		SEGMENT:										
TOTAL QTY	SYMBOL	1	2	3	4	5	6	7	8	9	10	
LINEAR FT		6,174	1,105	1,633	1,332	1,474	2,121	1,708	1,510	10,434	2,965	
TREES (2048)												
305	Ю	62	11	16	13	15	21	17	15	104	30	
1034	JV	247	44	65	53	15	85	17	60	417	3	
710	PV	165	29	44	36	15	57	17	40	278	3	
SHRUBS (494	<b>(6)</b>											
405	AS	103	18	27	22	0	35	0	25	174		
324	AF	82	15	22	18	0	28	0	20	139	(	
648	AA	165	29	44	36	0	57	0	40	278	(	
61	CR	0	0	0	0	15	0	17	0	0	3	
405	ID	103	18	27	22	0	35	0	25	174	ı	
567	LB	144	26	38	31	0	49	0	35	243	(	
648	РО	165	29	44	36	0	57	0	40	278		
243	RC	62	11	16	13	0	21	0	15	104		
324	RG	82	15	22	18	0	28	0	20	139		
427	RT	82	15	22	18	25	28	28	20	139	4	
82	SD	0	0	0	0	20	0	23	0	0	4	
567	VD	144	26	38	31	0	49	0	35	243		
243	VN	62	11	16	13	0	21	0	15	104		
	ES & SHRUBS ER SEGMENT:	1667	298	441	360	103	<i>573</i>	120	408	2817	20	

### VEGETATIVE SCREENING NOTES:

SHRUB AND TREE INSTALLATION

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT OF ALL WORK COVERED UNDER THESE PLANS.
- 2. ALL PLANT MATERIAL, UNLESS OTHERWISE SPECIFIED, SHALL BE UNIFORMLY BRANCHED AND HAVE A VIGOROUS, AND FREE FROM DEFECTS, DECAY, DISEASES, INSECT PEST EGGS, AND ALL FORMS OF INFESTATION. ALL PLANT MATERIAL SHALL BE FRESH, FREE FROM TRANSPLANT SHOCK OR VISIBLE WILT. PLANTS DEEMED UNHEALTHY SHALL BE REJECTED.
- 3. ALL PLANT MATERIAL SHALL MEET THE MINIMUM SPECIFICATIONS AND STANDARDS DESCRIBED IN THE CURRENT ISSUE OF "THE AMERICAN ASSOCIATION OF NURSERYMEN, 1250 I STREET, N.W., SUITE 500, WASHINGTON, D.C. 20005.
- 4. ALL CONTAINER STOCK SHALL HAVE BEEN PROPAGATED IN A CONTAINER LONG ENOUGH FOR THE ROOT SYSTEM TO HAVE DEVELOPED SUFFICIENTLY TO HOLD ITS SOIL. CONTAINER STOCK WITH POORLY DEVELOPED ROOT SYSTEMS SHALL NOT BE ACCEPTED.
- 5. PLANTS SHALL BE PREPARED FOR SHIPMENT IN A MANNER THAT SHALL NOT CAUSE DAMAGE TO THE BARK, BUDS, BRANCHES, STEMS, OR OVERALL SHAPE OF THE STOCK. CONTAINER GROWN PLANTS SHALL BE TRANSPORTED IN THE CONTAINERS IN WHICH THEY HAVE BEEN GROWN.
- 6. PLANTS NOT INSTALLED ON THE DAY OF ARRIVAL AT THE SITE SHALL BE STORED AND PROTECTED BY THE CONTRACTOR. OUTSIDE STORAGE AREAS SHALL BE STORED AND PROTECTED FROM THE WIND AND SUN. PLANTS STORED ON SITE SHALL BE PROTECTED FROM ANY DRYING AT ALL TIMES BY COVERING THE BALLS OR ROOTS WITH MOIST SAWDUST, WET BURLAP, WOOD CHIPS, SHREDDED BARK, PEAT MOSS, OR OTHER SIMILAR MULCHING MATERIAL, OR OTHER METHODS APPROVED BY OWNER.
- 7. PLANT SUBSTITUTIONS MAY BE MADE BASED ON AVAILABILITY BUT MUST BE OF SIMILAR SIZE AND LANDSCAPE (SCREENING) VALUE. ALL SUBSTITUTIONS MUST BE APPROVED BY THE OWNER OR OWNER'S REPRESENTATIVE.
- 8. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD.
- 9. NO PLANTING SHALL OCCUR WHEN THE SOIL IS FROZEN.

- DIG THE PLANTING HOLE A MINIMUM OF 2x WIDTH OF ROOTBALL FOR AT LEAST THE FIRST 12 INCHES OF DEPTH. BELOW 12 INCHES, DIG HOLE WIDE ENOUGH TO PERMIT ADJUSTING. DO NOT DIG THE HOLE DEEPER THAN ROOT BALL DEPTH.
- HOLES FOR INDIVIDUAL PLANTINGS SHALL BE EXCAVATED TO PRODUCE VERTICAL SIDES AND FLAT BOTTOMS. ALL PLANTING HOLES SHALL HAVE ROUGHED, SCARIFIED SIDES AND BOTTOMS.
- LIFT AND SET THE TREE BY ROOT BALL ONLY. DO NOT LIFT USING THE TREE TRUNK AND DO NOT USE TREE TRUNK AS A LEVER.
- SET THE TOP OF THE ROOT BALL LEVEL WITH THE SOIL SURFACE OR SLIGHTLY HIGHER.
- BACKFILL WITH EXISTING SOIL THAT HAS BEEN WELL-TILLED OR BROKEN UP.
- PRUNING SHALL BE LIMITED TO DEAD, DISEASED, OR BROKEN LIMBS ONLY AND SHALL BE IN ACCORDANCE WITH ANSI A300 SPECIFICATIONS.
- REMOVE ANY TRUNK WRAP REMAINING AT TIME OF PLANTING. NO WRAPS SHALL BE PLACED ON TRUNK.
- THE CONTRACTOR SHALL RESTORE AREAS DISTURBED BY THE INSTALLATION OF SHRUBS AND TREES.

### PROJECT ACCEPTANCE, MAINTENANCE, AND WARRANTY

- 1. PLANTED AREAS WILL BE INSPECTED AT COMPLETION OF INSTALLATION AND ACCEPTED (INITIAL ACCEPTANCE) WITH SPECIFIED MATERIALS AND INSTALLATION REQUIREMENTS. FOLLOWING INITIAL ACCEPTANCE OF THE COMPLETE INSTALLATION OF ALL PLANT MATERIAL, THE WARRANTY PERIOD WILL BEGIN.
- 2. CONTRACTOR SHALL MAINTAIN INSTALLED SHRUBS AND TREES WITHIN THE PROJECT LIMITS UNTIL FINAL ACCEPTANCE SHALL BE AT THE END OF THE WARRANTY PERIOD. MAINTENANCE SHALL INCLUDE PRUNING, CULTIVATING, WEEDING, WATERING, AND METHODS NECESSARY TO MAINTAIN PLANTS FREE OF INSECT, DISEASE, OR OTHER HERBIVORY DAMAGE UNTIL ACCEPTANCE. MAINTENANCE PERIOD SHALL BE ASSUMED TO CONTINUE THROUGH THE DURATION OF THE WARRANTY PERIOD.
- 3. WARRANT PLANT MATERIAL TO REMAIN ALIVE AND BE IN HEALTHY, VIGOROUS CONDITION FOR A PERIOD OF ONE (1) YEAR AFTER INITIAL ACCEPTANCE. IF PLANTING WINDOWS, THIS WARRANTY WILL REMAIN IN AFFECT ON ALL PLANT MATERIAL BASED ON THE WARRANTY PERIOD OF THE MOST RECENTLY INSTALLED PLANT MATERIAL.
- 4. REMOVE AND IMMEDIATELY REPLACE ALL PLANTS, AS DETERMINED BY THE OWNER'S REPRESENTATIVE, TO BE UNSATISFACTORY DURING THE INITIAL PLANTING INSTALLATION.
- 5. REPLACE AT ONCE, IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, ALL PLANTS THAT ARE DEAD OR, AS DETERMINED BY THE OWNER'S REPRESENTATIVE, OR ARE IN SEVERELY UNHEALTHY CONDITION WITHIN THE WARRANTY PERIOD. REPLACEMENTS TO BE INSTALLED AT THE CONTRACTOR'S EXPENSE AT NEXT BEST PLANTING SEASON.
- 6. TREE STAKING SHOULD BE REMOVED AFTER ONE COMPLETE GROWING SEASON. IF STAKING IS REQUIRED ON REPLACED WARRANTY PLANTING, THESE STAKES SHALL BE REMOVED AFTER ONE COMPLETE GROWING SEASON FOLLOWING INSTALLATION.
- 7. CONTRACTOR IS RESPONSIBLE FOR PROVIDING HERBIVORY PROTECTION DURING THE MAINTENANCE AND WARRANTY PERIOD. REPLACEMENT OF PLANTS DUE TO DAMAGE FROM HERBIVORY WILL BE AT THE CONTRACTOR'S EXPENSE.
- 8. UPON FINAL ACCEPTANCE, THE OWNER WILL ASSUME PLANT MAINTENANCE.

## PROJECT MEASUREMENT AND PAYMENT

- 1. THE QUANTITY OF PLANTING TO BE PAID FOR WILL BE THE ACTUAL INDIVIDUAL PLANTS INSTALLED AND MAINTAINED.
- 2. ALL WORK COVERED BY THIS ITEM WILL BE PAID FOR AT THE CONTRACT RATE PER PLANT. SUCH PRICE WILL BE PARTIAL PAYMENT (90%) FOR THE WORK INCLUDING MATERIALS, LABOR, WARRANTY, AND ANY OTHER ITEMS. INCIDENTAL TO THE WORK AFTER INITIAL ACCEPTANCE. FINAL PAYMENT (REMAINING 10%) WILL BE PAID FOLLOWING FINAL ACCEPTANCE AFTER COMPLETION OF THE WARRANTY PERIOD.

**PRELIMINARY NOT FOR** CONSTRUCTION

— RUBBER HOSE

**−**2" X 2" HARDWOOD STAKE

DETAIL: EVERGREEN TREE PLANTING

— GALVANIZED WIRE GUY

-REMOVE BURLAP FROM TOP 1/3 OF ROOT BALL

- SHREDDED HARDWOOD MULCH (MINIMUM 4" DEPTH), PULLED AWAY FROM BASE OF TREE

EARTH SAUCER AROUND TREE

				Stante	SEAL	The Contractor shall verify and be responsible for all dimer			CLIENT/PROJECT:  LOST CITY RENEWABLES LLC  LOST CITY  MUHLENBURG COUNTY, DUNMOR KENTUCKY  TITLE:
				Stantec Consulting Services Inc. 50 Derby Street 3052 Beaumont Centr	e Circle	DRAWN:	CHECKED:	IND. REVIEW	LOST CITY
В	ISSUED FOR REVIEW	RB	SL AC 12/20/2024	Suite 260 Lexington, Kentuc	sky	DESIGNED:	CHECKED:	APPROVED:	LANDSCAPE DETAILS
Α	ISSUED FOR REVIEW	RB	SL AC 11/26/2024	Hingham, MA U.S.A. 40513—17 U.S.A. 02043	03	RB	SL	AC AC	
REV.	DESCRIPTION [	DRAWN	CHKD APPRVD DATE	www.stantec.com		PROJECT NO:		OO/ILL.	SHT 4 DWG NO: REV:
	DRAWING REVISIONS			FILE NAME: 2057322000 Lost City Solar.dwg		2057322000		N/A	OF 4 2057322000-LC-C-700 E

NOTES:

1. DO NOT CUT MAIN LEADER.

BACKFILL WITH MATERIAL REMOVED DURING PLANTING

PIT EXCAVATION AND TAMP TO PREVENT SETTLEMENT

SIDES AND BOTTOMS OF PLANTING PIT SHOULD BE ROUGHED AND SCARIFIED

ROOT BALL SHOULD

UNDISTURBED SOIL

BE SET ON-