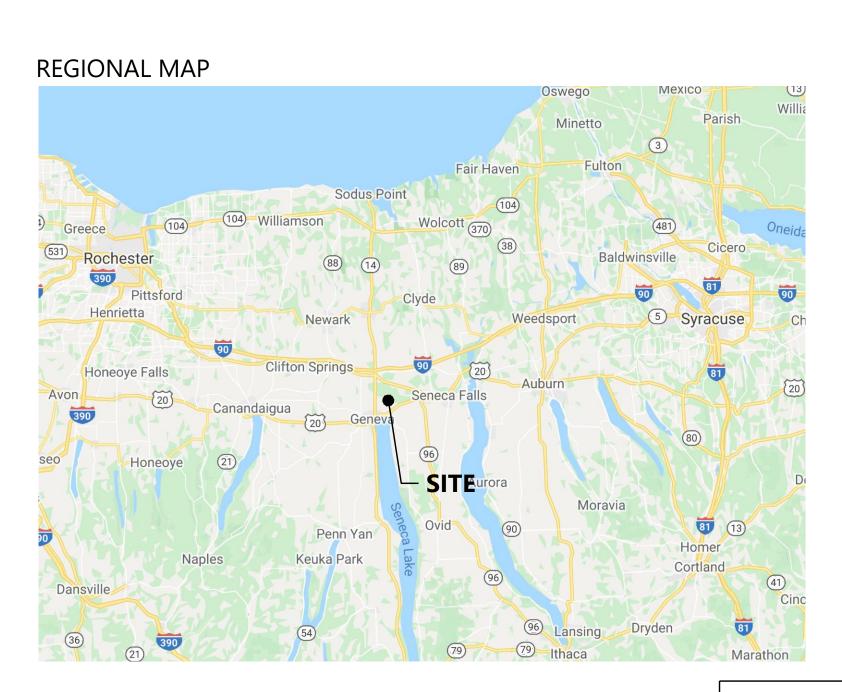
Trelina Solar Energy Center

Town of Waterloo, Seneca County, New York

Civil Construction Plans

Issued for Review





CONTACT INFORMATION				
CONSULTANT	COMPANY	NAME	PHONE NUMBER	
PROJECT MANAGER	WESTWOOD	JACK HAYS	972-265-4871	
ENGINEER OF RECORD	WESTWOOD	ALEX ALVARADO	214-228-8102	
CLIENT	NEXTERA	JOE CARTAYA	561-604-4529	
ENVIRONMENTAL CONSULTANT	TRC	JASON DICKEY	518-469-8843	

DATA SET INFORMATION			
BASE FILE	FILE NAME/NOTES	PROVIDER	
CIVIL IMPROVEMENTS	0025416C-SITE	WESTWOOD	
PV ARRAY	0025416EQUIP	WESTWOOD	
ELECTRICAL LAYOUT	0025416EQUIP	WESTWOOD	
BOUNDARY SURVEY	0025416V-MAPO	BERGMANN	
TOPOGRAPHY	0025416V-ECON	BERGMANN	
AERIAL	0025416V-AERIAL	WESTWOOD	
WETLANDS	0025416V-MAPO	TRC	
SUBSTATION	0025416EQUIP	NEXTERA	

SHEET LIST TABLE		S	SHEET LIST TABLE		
Sheet Number	Sheet Title	Sheet Number	Sheet Title	Sheet Number	
T.100	Cover	C.401	Tree Clearing Plan	C.606	
T.101	General Notes	C.402	Tree Clearing Plan	C.607	
C.100	Civil Site Plan Sheet Index	C.403	Tree Clearing Plan	C.608	
C.200	Overall Site Plan	C.404	Tree Clearing Plan	C.609	
C.300	Civil Site Plan	C.405	Tree Clearing Plan	C.610	
C.301	Civil Site Plan	C.406	Tree Clearing Plan	E.650	
C.302	Civil Site Plan	C.407	Tree Clearing Plan	E.651	
C.303	Civil Site Plan	C.408	Tree Clearing Plan	E.652	
C.304	Civil Site Plan	C.409	Tree Clearing Plan	E.653	
C.305	Civil Site Plan	C.410	Tree Clearing Plan		
C.306	Civil Site Plan	C.411	Tree Clearing Plan		
C.307	Civil Site Plan	C.412	Tree Clearing Plan		
C.308	Civil Site Plan	C.413	Tree Clearing Plan		
C.309	Civil Site Plan	C.414	Tree Clearing Plan		
C.310	Civil Site Plan	C.600	Construction Details - 1		
C.311	Civil Site Plan	C.601	Construction Details - 2		
C.312	Civil Site Plan	C.602	Construction Details - 3		
C.313	Civil Site Plan	C.603	Construction Details - 4		
C.314	Civil Site Plan	C.604	Construction Details - 5		
C.400	Tree Clearing Plan	C.605	New York Erosion Control Details - 1		



RE'	VISIONS:	
#	DATE	COMMENT
<u>A</u>	04/17/2020	ISSUED FOR REVIEW
<u>B</u>	05/28/2020	ISSUED FOR REVIEW
<u>C</u>	06/30/2020	ISSUED FOR REVIEW
D	07/17/2020	ISSUED FOR REVIEW

Trelina Solar Energy Center

Town of Waterloo Seneca County, NY

SHEET LIST TABLE

Sheet Title

New York Erosion Control Details - 2

New York Erosion Control Details - 3

New York Erosion Control Details - 4

Construction Notes

Tree Clearing Notes

Trench Details -

Trench Details - 2

Trench Details - 3

Sectionalizer Detail

Cover

PRELIMINARY NOT FOR CONSTRUCTION **PURPOSES**

07/17/2020

T.100 SHEET:

GENERAL NOTES:

TOPOGRAPHIC INFORMATION PROVIDED BY BERGMANN ASSOCIATES, ARCHITECTS, ENGINEERS, LANDSCAPE ARCHITECTS &

- SURVEYORS, D.P.C., DATED 04/08/2020. PROPERTY BOUNDARY INFORMATION PROVIDED BY BERGMANN ASSOCIATES, ARCHITECTS, ENGINEERS, LANDSCAPE ARCHITECTS &
- SURVEYORS, D.P.C.), DATED 03/24/2020.
- HORIZONTAL DATUM: NAD83 (2011), STATE PLANE COORDINATE SYSTEM, NEW YORK WEST ZONE, US FOOT. VERTICAL DATUM: NAVD88.
- WETLAND BOUNDARY INFORMATION PROVIDED BY TRC DATED 03/27/2020.
- EXISTING TREELINE IS APPROXIMATE, BASED ON AERIAL PHOTOGRAPHY.
- FLOOD ZONE CLASSIFICATION:

SITE LIES WITHIN THE AREAS OF MINIMAL FLODDING (ZONE C) AND AREAS BETWEEN LIMITS OF THE 100-YEAR FLOOD AND 500-YEAR FLOOD; OR CERTAIN AREAS SUBJECT TO 100-YEAR FLOODING WITH AVERAGE DEPTHS LESS THAN ONE (1) FOOT (ZONE B); AS SHOWN ON THE FOLLOWING MAPS

NUMBERED:

3607590003B - DATED SEPTEMBER 16, 1981 3607590005B - DATED SEPTEMBER 16, 1981

SWPPP NOTE:

THE EROSION AND SEDIMENTATION CONTROL MEASURES FOR THIS PROJECT SHALL BE IN SUBSTANTIAL COMPLIANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THE PROJECT IN ACCORDANCE WITH NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITY (GP-0-20-001), OR GP IN EFFECT AT COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

- TREES AND OTHER VEGETATION MAY BE REDUCED TO CHIPS BY THE USE OF CHIPPING MACHINES OR STUMP GRINDER AND USED AS REQUIRED FOR EROSION CONTROL. ALL OTHER CHIPS AND WOOD WASTE RESULTING FROM REMOVAL
- OPERATIONS SHALL BE DISPOSED OF OFF-SITE AT A FACILITY AND IN A MANNER APPROVED BY THE OWNER. AREAS IDENTIFIED AS AVOIDANCE AREAS SHALL BE CLEARED OF TREES ONLY, AND ONLY IF LOCATED WITHIN AN AREA DESIGNATED FOR TRESS CLEARING ON THE TREE CLEARING PLANS. GROUND DISTURBANCE IS NOT PERMITTED. STUMPS SHALL BE CUT TO A MAXIMUM HEIGHT OF ONE (1) FOOT AND LEFT IN PLACE.
- ALL DEMOLITION WASTE, DEBRIS AND RUBBISH SHALL BE PROPERLY REMOVED FROM THE SITE AS IT OCCURS. ALL MATERIALS SHALL BE PROPERLY DISPOSED OF OFF-SITE IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
- TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING IMPROVEMENTS AND FACILITIES TO REMAIN IN PLACE. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND REPLACEMENT OF DAMAGED ITEMS AS A RESULT OF CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.

WORK WILL BE CARRIED OUT NEAR AND UNDER ENERGIZED EQUIPMENT. EXTREME CAUTION IS REQUIRED AT ALL TIMES. THE CONTRACTOR SHALL STRICTLY FOLLOW ALL NEW YORK STATE ELECTRIC & GAS (NYSEG) SAFETY REQUIREMENTS WHEN WORKING WITHIN THE NYSEG RIGHT-OF-WAY. FAILURE TO DO SO WILL RESULT IN TERMINATION.

UNLESS INDICATED OTHERWISE REFER TO THE LATEST EDITION OF THE STATE OF NEW YORK, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS FOR GENERAL REQUIREMENTS, PRODUCTS AND EXECUTION RELATED TO CONSTRUCTION OF BUT NOT LIMITED TO; CLEARING, GRUBBING, ROADS, UTILITY TRENCH EXCAVATION, BORROW, SUBGRADE, SUBBASE, GRANULAR FILL, AND AGGREGATE BASE.

PROJECT CONSTRUCTION SEQUENCING NOTES:

THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SEQUENCING OR CONSTRUCTION PHASING PLAN FOR OWNER APPROVAL THAT COMPLIES WITH PERMITTING REQUIREMENTS. THE PLAN SHALL SHOW THAT ACTIVE LAND DISTURBANCE ACTIVITIES WILL BE LIMITED TO LESS THAN FIVE (5) ACRES IN SIZE AND SHALL DISCUSS BUT IS NOT LIMITED TO THE

- THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS FOR TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE CONSTRUCTION DETAILS, IN THE SWPPP, AND THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR
- EROSION AND SEDIMENT CONTROL. PRIOR TO THE START OF ONSITE EARTHWORK ACTIVITIES, THE CONTRACTOR SHALL ESTABLISH THE CONSTRUCTION
- WORKSPACE LIMITS AND IDENTIFY AND MARK SENSITIVE RESOURCES.
- THE CONTRACTOR SHALL INSTALL ALL TEMPORARY EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs) IN ORDER TO PROTECT DOWN GRADIENT AREAS.
- AFTER PERMANENT EROSION AND SEDIMENT CONTROL MEASURES ARE INSTALLED AND FUNCTIONING ON THE CURRENT CONSTRUCTION PHASE THE CONTRACTOR SHALL OBTAIN OWNER APPROVAL PRIOR TO BEGINNING EARTHWORK ON THE SUBSEQUENT CONSTRUCTION PHASE.

IF DISTURBING MORE THAN FIVE (5) ACRES, THE OWNER OR OPERATOR MUST OBTAIN PRIOR WRITTEN AUTHORIZATION FROM THE DEPARTMENT OF ENVIRONMENTAL CONTROL, OR IN AREAS UNDER THE JURISDICTION OF A REGULATED, TRADITIONAL LAND USI CONTROL MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4), THE REGULATED, TRADITIONAL LAND USE CONTROL MS4 (PROVIDED THE REGULATED, TRADITIONAL LAND USE CONTROL MS4 IS NOT THE OWNER OR OPERATOR OF THE CONSTRUCTION ACTIVITY). AT A MINIMUM, THE OWNER OR OPERATOR MUST COMPLY WITH THE FOLLOWING REQUIREMENTS IN ORDER TO BE AUTHORIZED TO DISTURE GREATER THAN FIVE (5) ACRES OF SOIL AT ANY ONE TIME:

THE OWNER OR OPERATOR SHALL HAVE A QUALIFIED INSPECTOR CONDUCT AT LEAST TWO (2) SITE INSPECTIONS IN ACCORDANCE WITH PART IV.C. OF THIS PERMIT EVERY SEVEN (7) CALENDAR DAYS, FOR AS LONG AS GREATER THAN FIVE (5) ACRES OF SOIL

- REMAIN DISTURBED. THE TWO (2) INSPECTIONS SHALL BE SEPARATED BY A MINIMUM OF TWO (2) FULL CALENDAR DAYS. IN AREAS WHERE SOIL DISTURBANCE ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED, THE APPLICATION OF SOIL STABILIZATION MEASURES MUST BE INITIATED BY THE END OF THE NEXT BUSINESS DAY AND COMPLETED WITHIN SEVEN (7) DAYS FROM THE DATE THE CURRENT SOIL DISTURBANCE ACTIVITY CEASED. THE SOIL STABILIZATION MEASURES SELECTED SHALL BE IN
- CONFORMANCE WITH THE TECHNICAL STANDARD, AND THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, DATED NOVEMBER 2016. THE OWNER OR OPERATOR SHALL PREPARE A PHASING PLAN THAT DEFINES MAXIMUM DISTURBED AREA PER PHASE AND SHOWS
- REQUIRED CUTS AND FILLS.
- THE OWNER OR OPERATOR SHALL INSTALL ANY ADDITIONAL SITE-SPECIFIC PRACTICES NEEDED TO PROTECT WATER QUALITY. THE OWNER OR OPERATOR SHALL INCLUDE THE REQUIREMENTS ABOVE IN THE SWPPP

HORIZONTAL DIRECTIONAL DRILLING TABLE				
LOCATION	LENGTH	CIVIL PLAN SHEET REFERENCE		
CROSSING OF WETLAND (W-JJB1)	715 FEET	C.300-C.301		
CROSSING OF GAS LINE	195 FEET	C.301		
CROSSING OF GAS LINE	260 FEET	C.308		
CROSSING OF SERVEN ROAD	295 FEET	C.313-C.314		

	GRADING ANALYSIS				
	CUT VOLUME (CY)	8,911			
	FILL VOLUME (CY)	9180			
1					

CROSSING OF SERVEN ROAD 295 FEET			C.313-C.314		
PROJECT DETAILS					
PROPERTY AREA (ACRES)				1,183	
FENCED AREA (ACRES)				418	
FENCING LENGTH (LF)				72,583	
ROADS (LF)				21,141	
LIMIT OF DISTURBANCE (ACRES)				475	
TREE CLEARING (ACRES)				31.4	
IMPERVIOUS AREA (ACRES)				9.05	
ROAD AGGREGATE (CY)				7,308	
LAYDOWN YARD AGGREGATE (CY)				8,606	

CULVERT SCHEDULE					
NAME	NAME INLET OUTLET			CULVERT LENGTH	PAGE NUMBER
DC-01	477.1' (W)	476.2' (E)	(2) - 15"	50'	C.300
DC-02	478.4' (N)	478.3' (S)	(2) - 18"	25'	C.301
DC-03	468.0' (W)	467.9' (E)	(3) - 36"	65'	C.301
DC-04	478.6' (W)	478.0' (E)	(2) - 24"	70'	C.307
DC-05	472.9' (E)	472.4' (W)	(2) - 30"	78'	C.311
DC-06	465.2' (S)	465.0' (N)	(2) - 36"	35'	C.307
DC-07	481.0' (W)	479.4' (S)	(1) - 12"	60'	C.314
DC-08	476.0' (W)	474.9' (E)	(1) - 24"	75'	C.313
DC-09	475.7' (E)	475.5' (W)	(1) - 15"	85'	C.313

SOIL PROPERTIES TABLE

	SOIL PROPERTIES TABLE	
SOIL UNIT SYMBOL	MAP UNIT NAME	HYDROLOGIC SOIL GROUP
1A	FLUVAQUENTS-UDIFLUVENTS COMPLEX, 0 TO 3 PERCENT SLOPES, FREQUENTLY FLOODED	A/D
5A	WAYLAND SOILS COMPLEX, 0 TO 3 PERCENT SLOPES, FREQUENTLY FLOODED	B/D
32A	DUNKIRK FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES	С
34A	LAKEMONT SILTY CLAY LOAM, 0 TO 3 PERCENT SLOPES	D
35A	ODESSA SILT LOAM, 0 TO 3 PERCENT SLOPES	D
37A	SCHOHARIE SILT LOAM, 0 TO 3 PERCENT SLOPES	D
37B	SCHOHARIE SILT LOAM, 3 TO 8 PERCENT SLOPES	D
41A	AERIC EPIAQUEPTS, 0 TO 3 PERCENT SLOPES	C/D
53A	LAMSON FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES	B/D
54A	LAMSON MUCKY FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES	B/D
56A	ELNORA LOAMY FINE SAND, 0 TO 3 PERCENT SLOPES	В
58B	COLONIE LOAMY FINE SAND, 3 TO 8 PERCENT SLOPES	A
58C	COLONIE LOAMY FINE SAND, 8 TO 15 PERCENT SLOPES	A
PG	PITS, GRAVEL AND SAND	
Ac	ALDEN MUCKY SILT LOAM	C/D
Al	ALLUVIAL LAND	A/D
ArB	ARKPORT LOAMY FINE SAND, 1 TO 6 PERCENT SLOPES	A
ArC	ARKPORT LOAMY FINE SAND, 6 TO 12 PERCENT SLOPES	A
BP	BARROW PITS	
Са	CANANDAIGUA SILT LOAM	C/D
CkA	CLAVERACK LOAMY FINE SAND, 0 TO 2 PERCENT SLOPES	C/D
CkB	CLAVERACK LOAMY FINE SAND, 2 TO 6 PERCENT SLOPES	C/D
CIA	COLLAMER SILT LOAM, 0 TO 2 PERCENT SLOPES	C/D
CIB	COLLAMER SILT LOAM, 2 TO 6 PERCENT SLOPES	C/D
Cu	COSAD LOAMY FINE SAND	C/D
DuB	DUNKIRK SILT LOAM, 1 TO 6 PERCENT SLOPES	С
DuC3	DUNKIRK SILT LOAM, 6 TO 12 PERCENT SLOPES, ERODED	С
Ed	EDWARDS MUCK	D
EIA	ELNORA LOAMY FINE SAND, 0 TO 2 PERCENT SLOPES	A/D
EIB	ELNORA LOAMY FINE SAND, 2 TO 6 PERCENT SLOPES	A/D
Fn	FONDA MUCKY SILTY CLAY LOAM	C/D
Fw	FRESH WATER MARSH	
GP	GRAVEL PITS	
LcA	LAKEMONT SILTY CLAY LOAM, 0 TO 3 PERCENT SLOPES	D
Lf	LAMSON FINE SANDY LOAM AND MUCKY FINE SANDY LOAM	A/D
Md	MADE LAND, TILLABLE	В
Mr	MUCK, DEEP	A/D
Ms	MUCK, SHALLOW	B/D
Ng	NIAGARA SILT LOAM	C/D
OdA	ODESSA SILT LOAM, 0 TO 3 PERCENT SLOPES	D
SeB	SCHOHARIE SILT LOAM, 2 TO 6 PERCENT SLOPES	D
ShA	SLOPES	D
ShB	SCHOHARIE SILTY CLAY LOAM, 2 TO 6 PERCENT SLOPES	D
ShC3	SCHOHARIE SILTY CLAY LOAM, 6 TO 12 PERCENT SLOPES	D
Sn	SLOAN SILT LOAM	B/D
Sr	STAFFORD LOAMY FINE SAND	A/D
W	WATER	N/A



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700 Universe Blvd, Juno Beach, FL 33408

REVISIONS: # DATE COMMENT A 04/17/2020 ISSUED FOR REVIEW B 05/28/2020 ISSUED FOR REVIEW C 06/30/2020 ISSUED FOR REVIEW D 07/17/2020 ISSUED FOR REVIEW

Trelina Solar Energy Center

Town of Waterloo Seneca County, NY

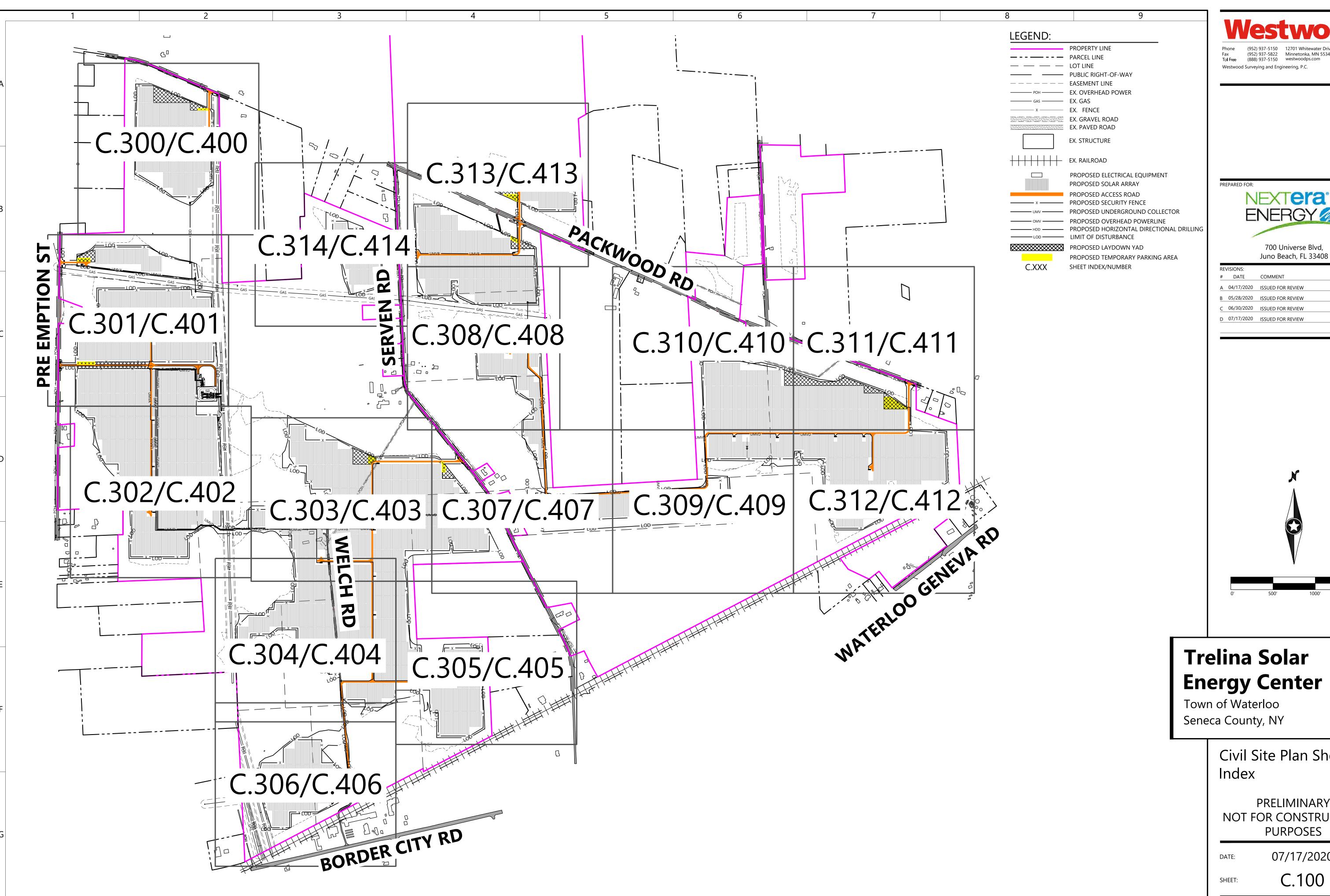
General Notes

PRELIMINARY NOT FOR CONSTRUCTION **PURPOSES**

SHEET:

07/17/2020

T.101

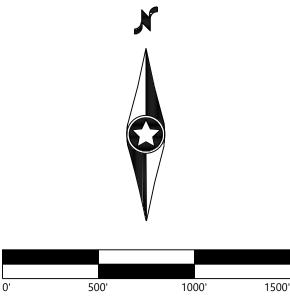


Westwood



Juno Beach, FL 33408

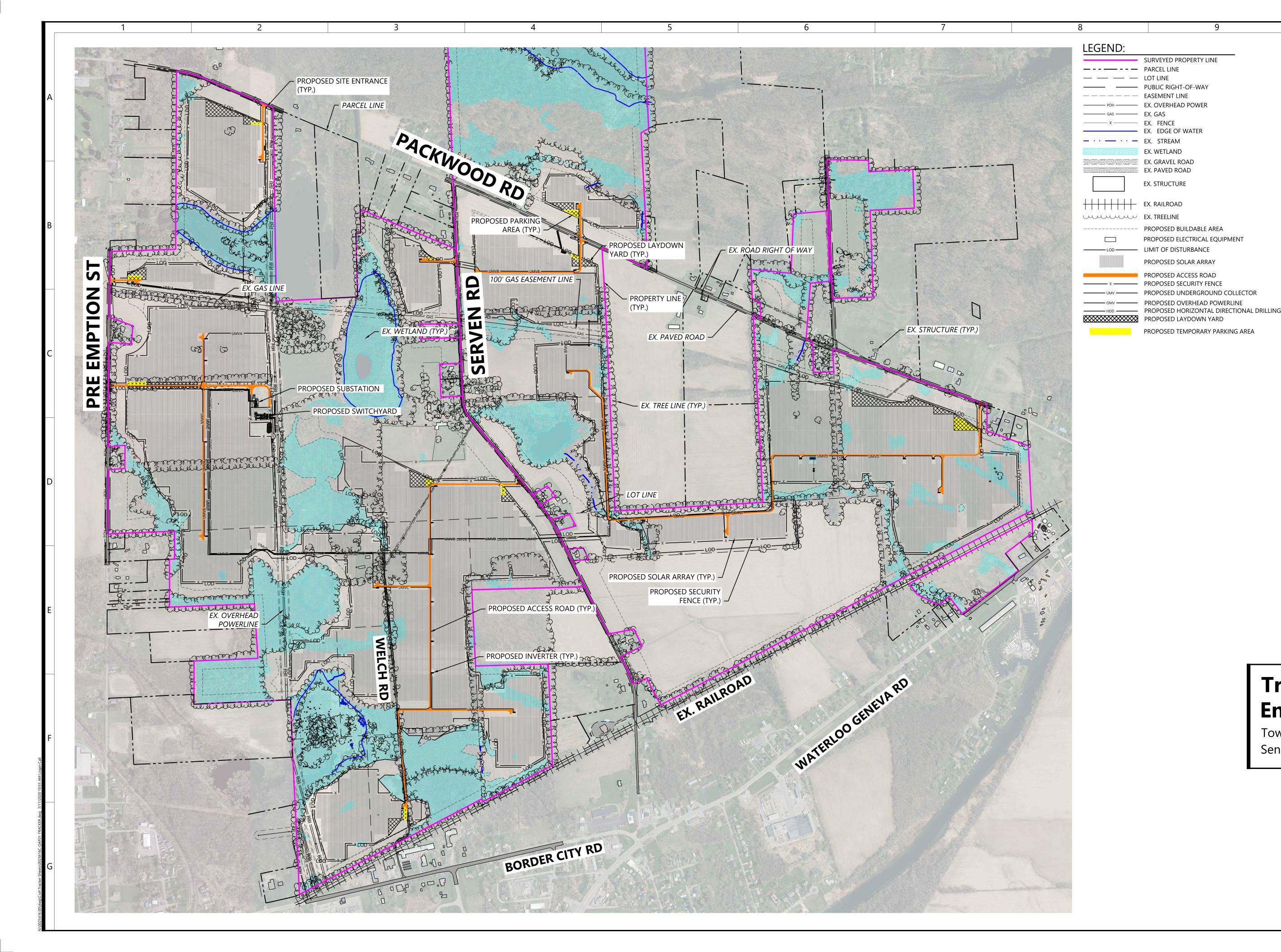
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Civil Site Plan Sheet

PRELIMINARY NOT FOR CONSTRUCTION **PURPOSES**

07/17/2020





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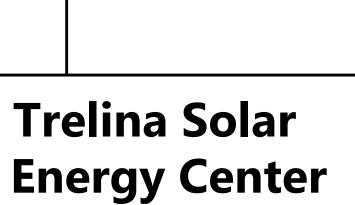
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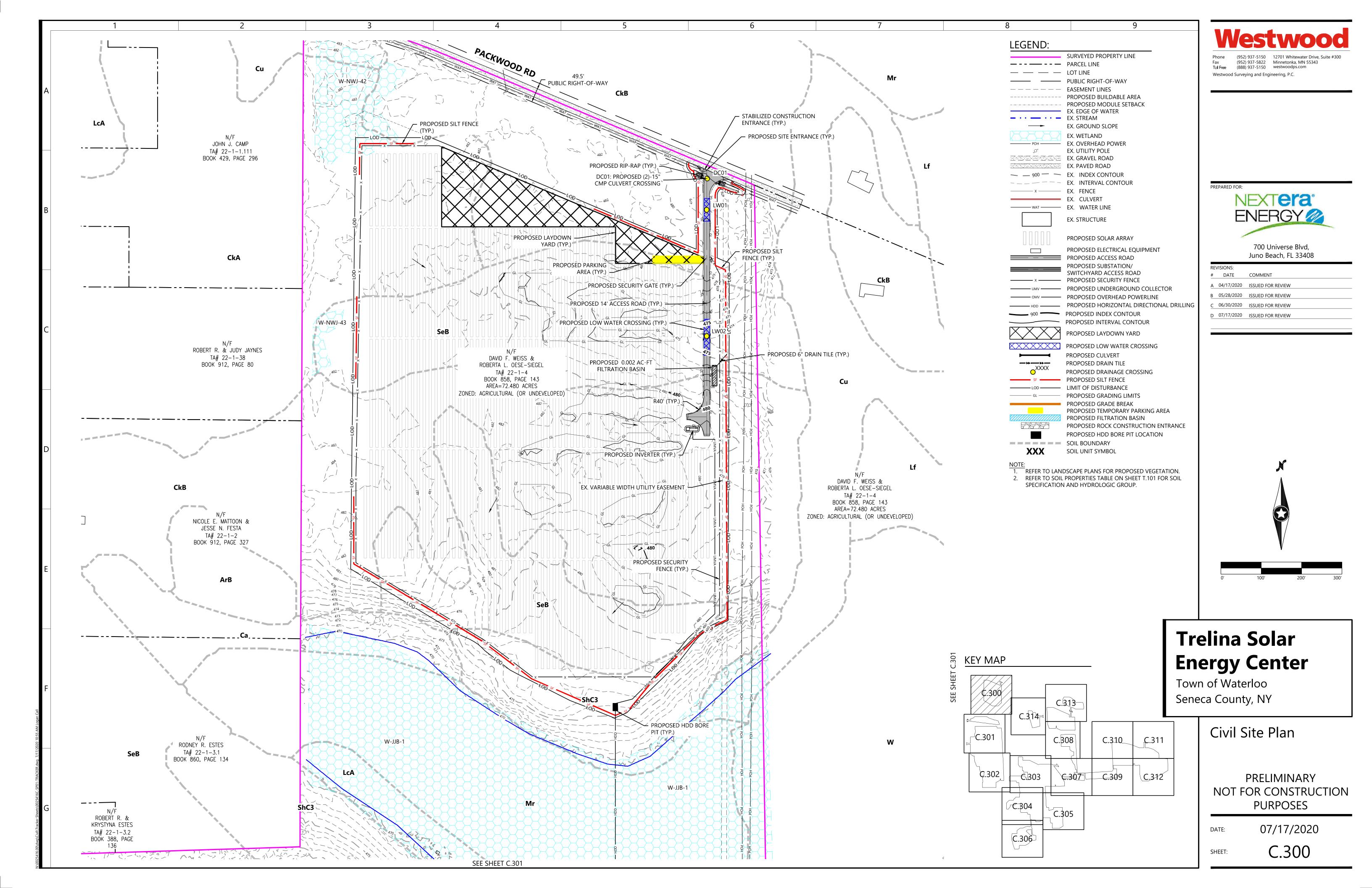
Town of Waterloo Seneca County, NY

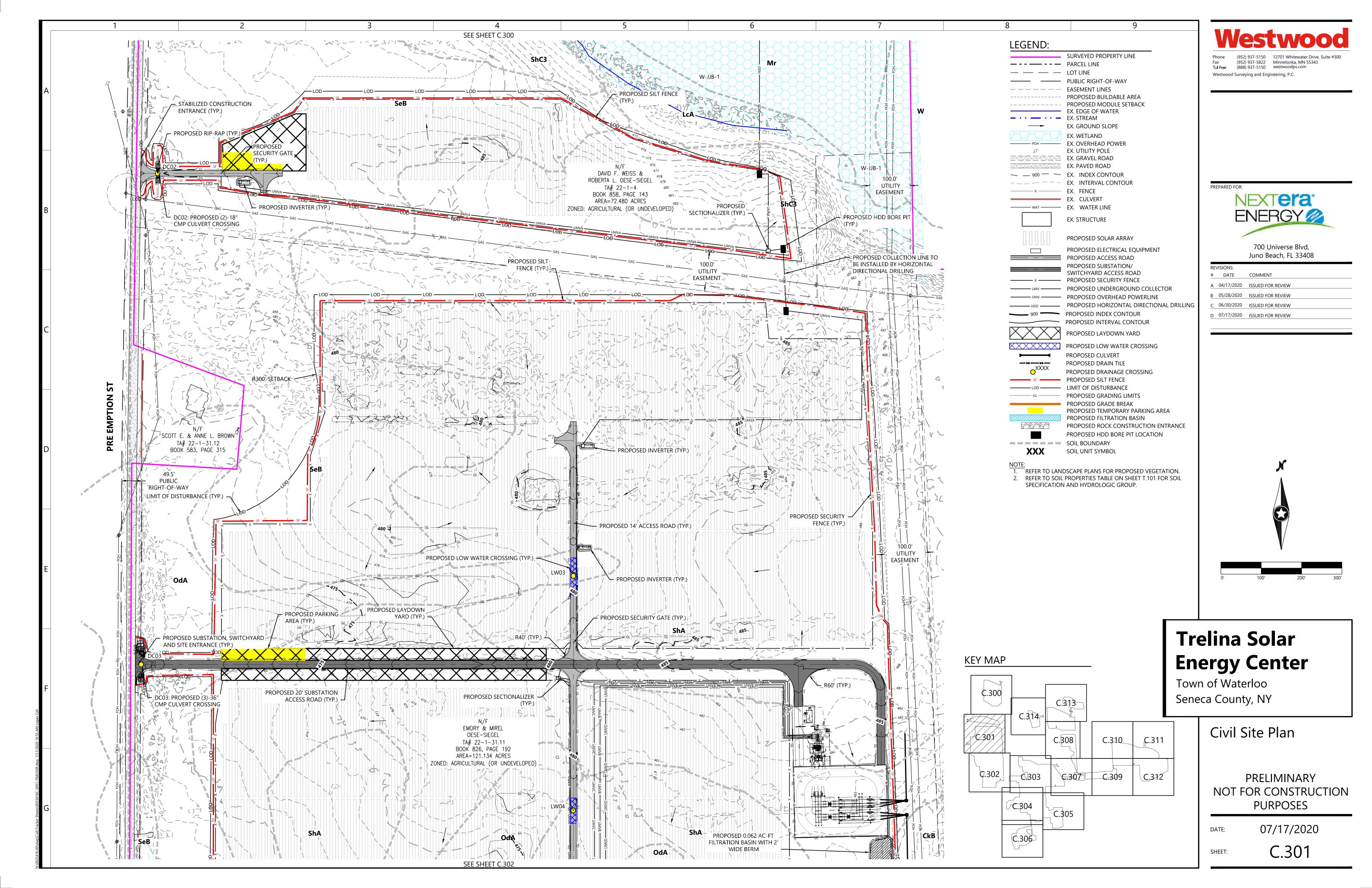
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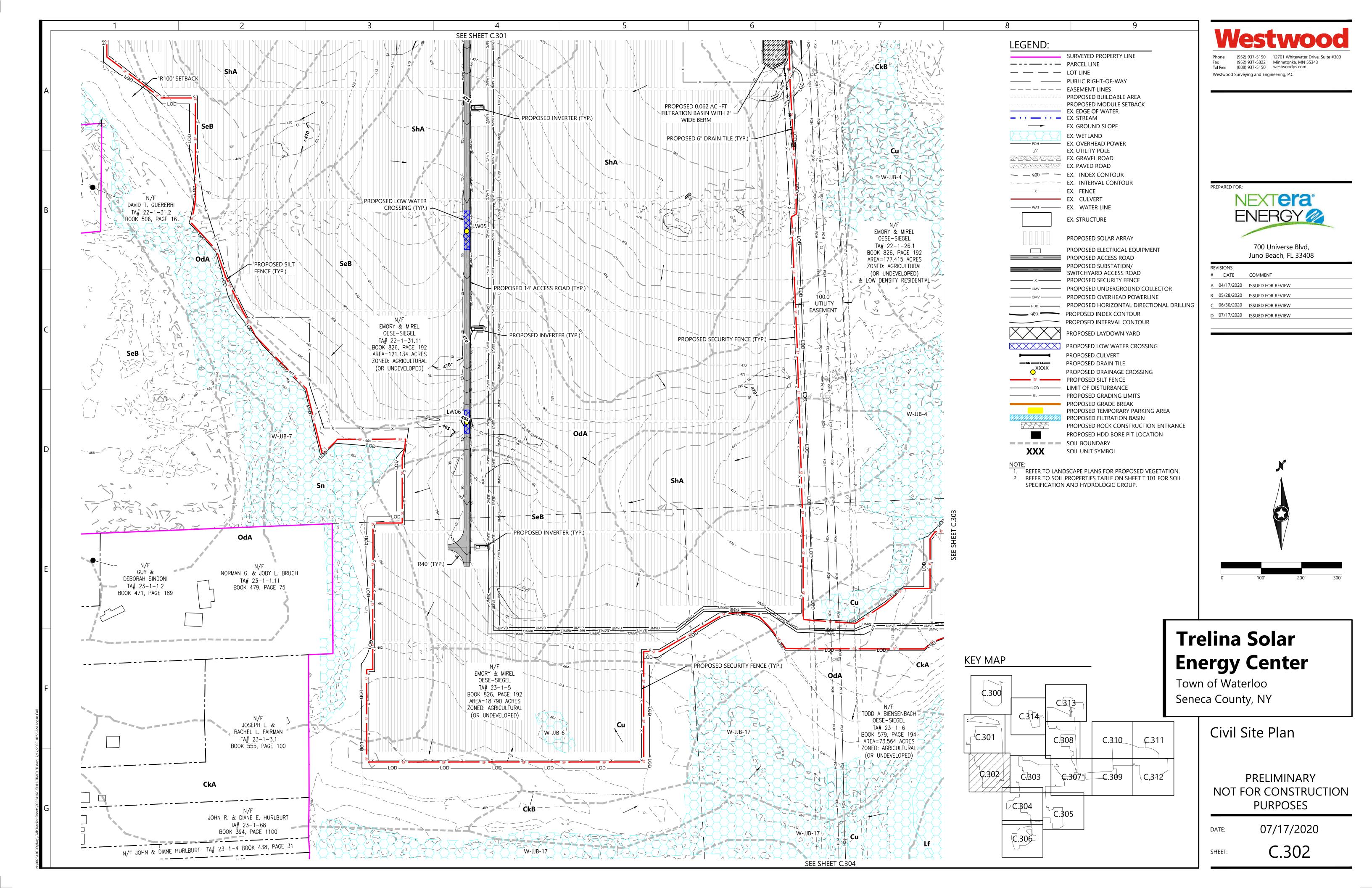
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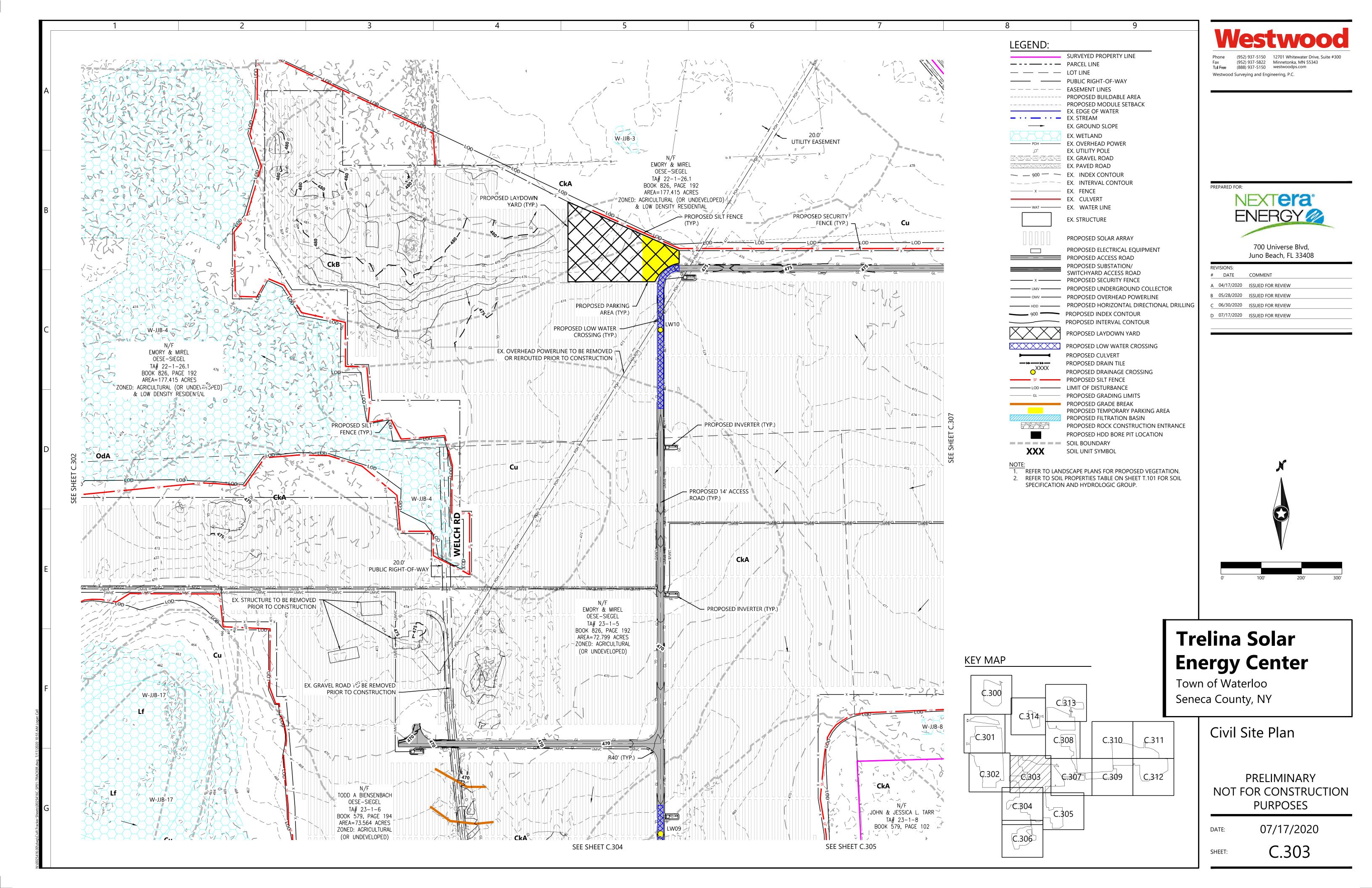
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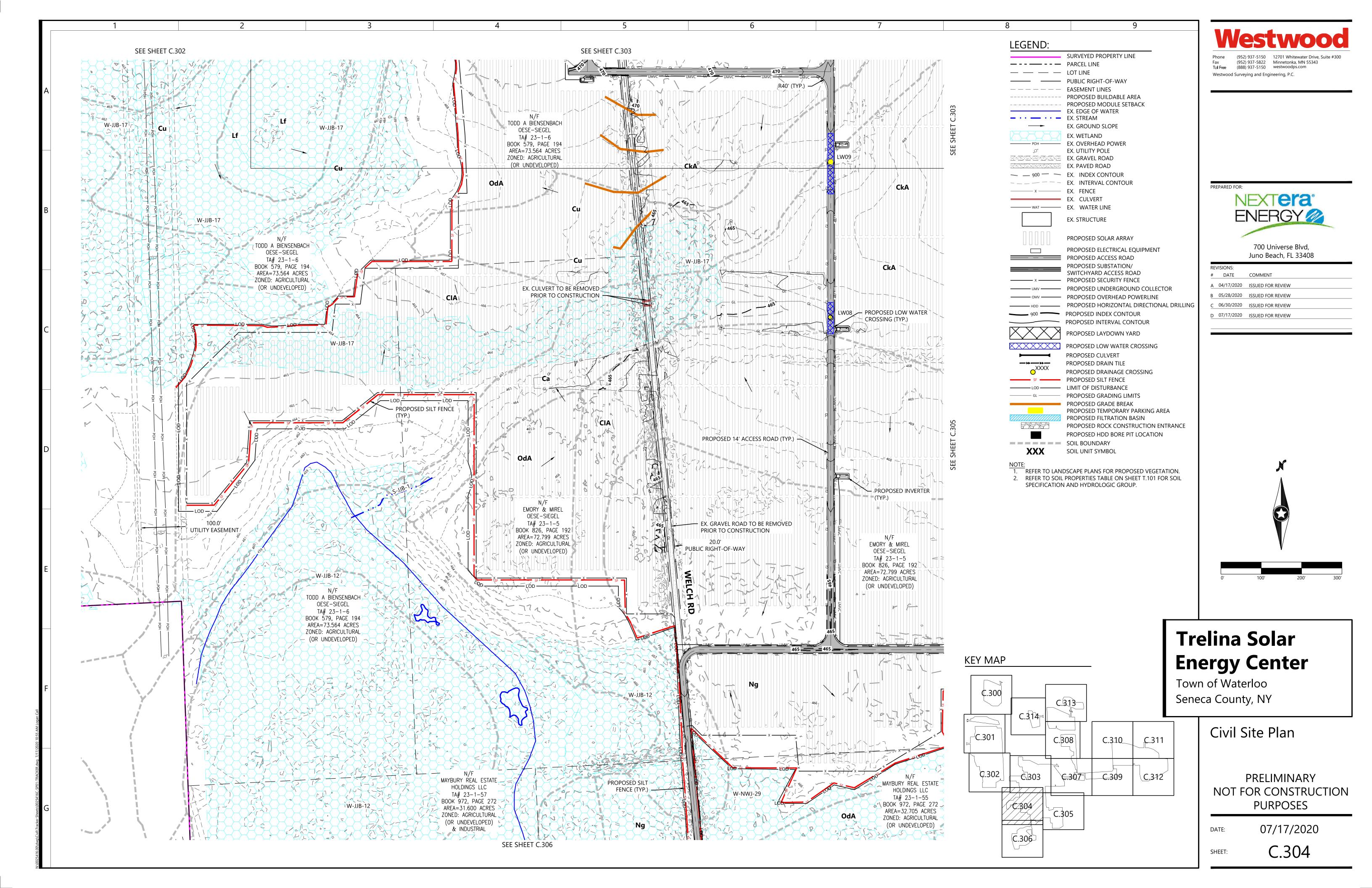
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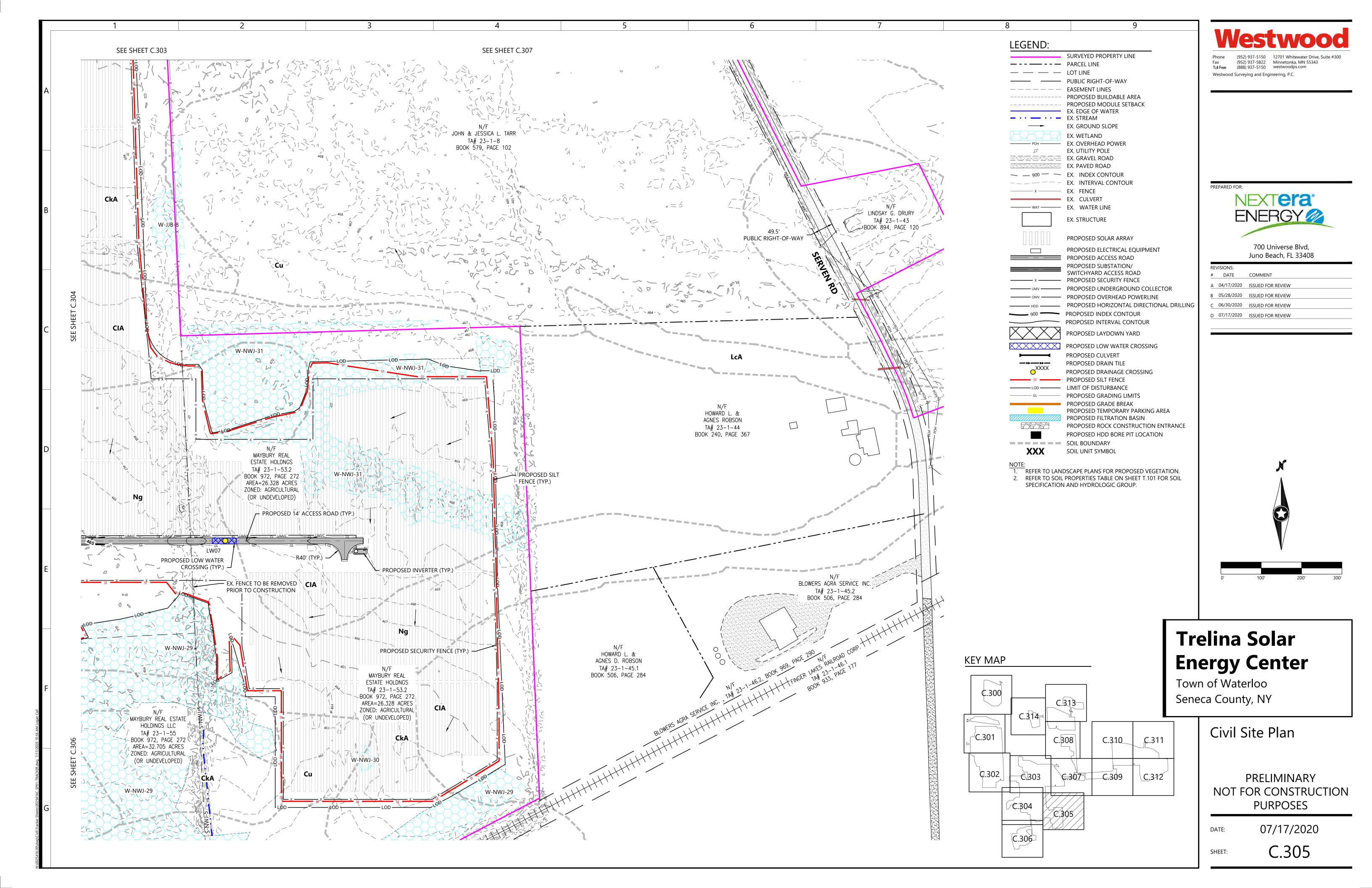


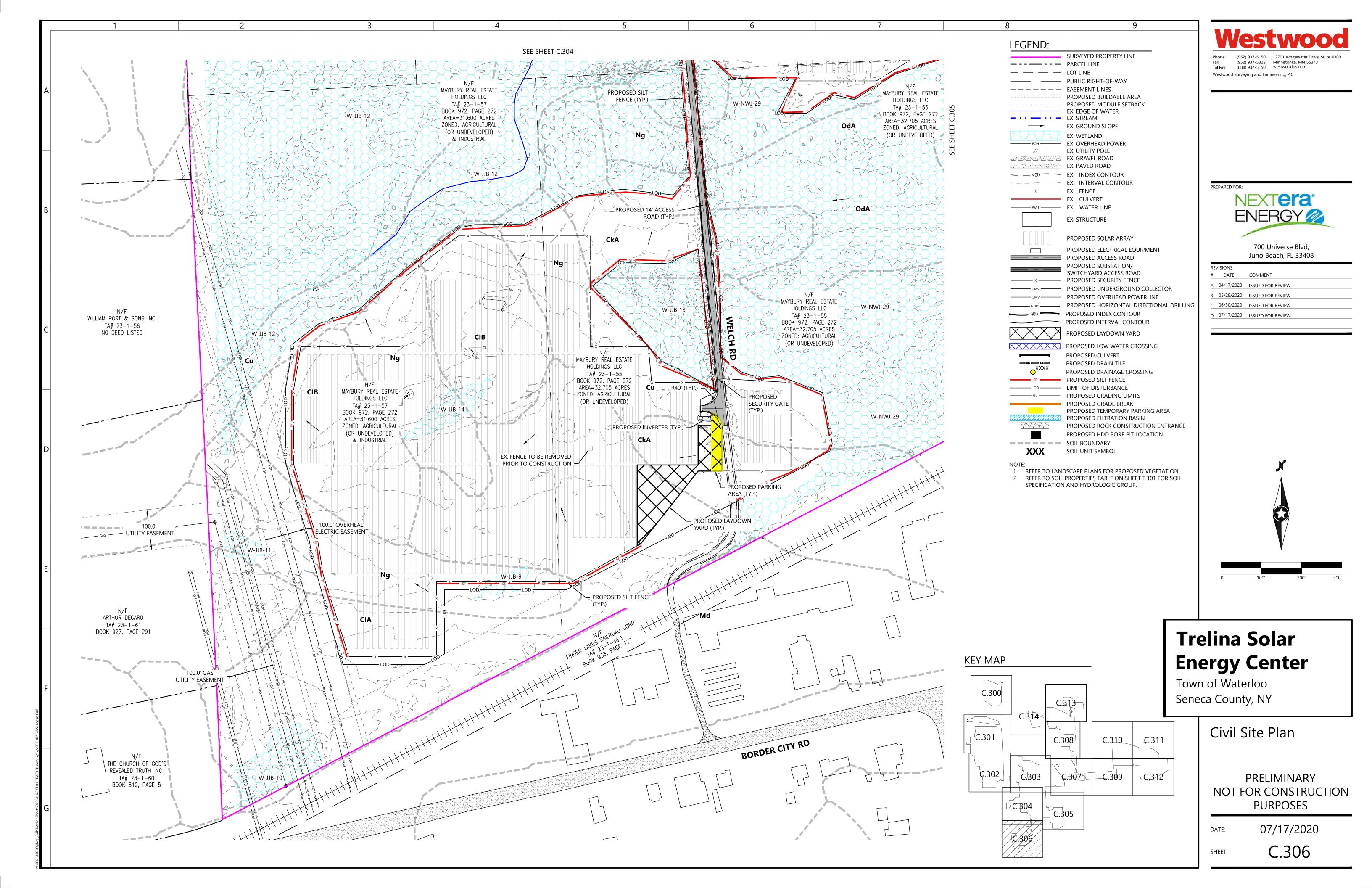


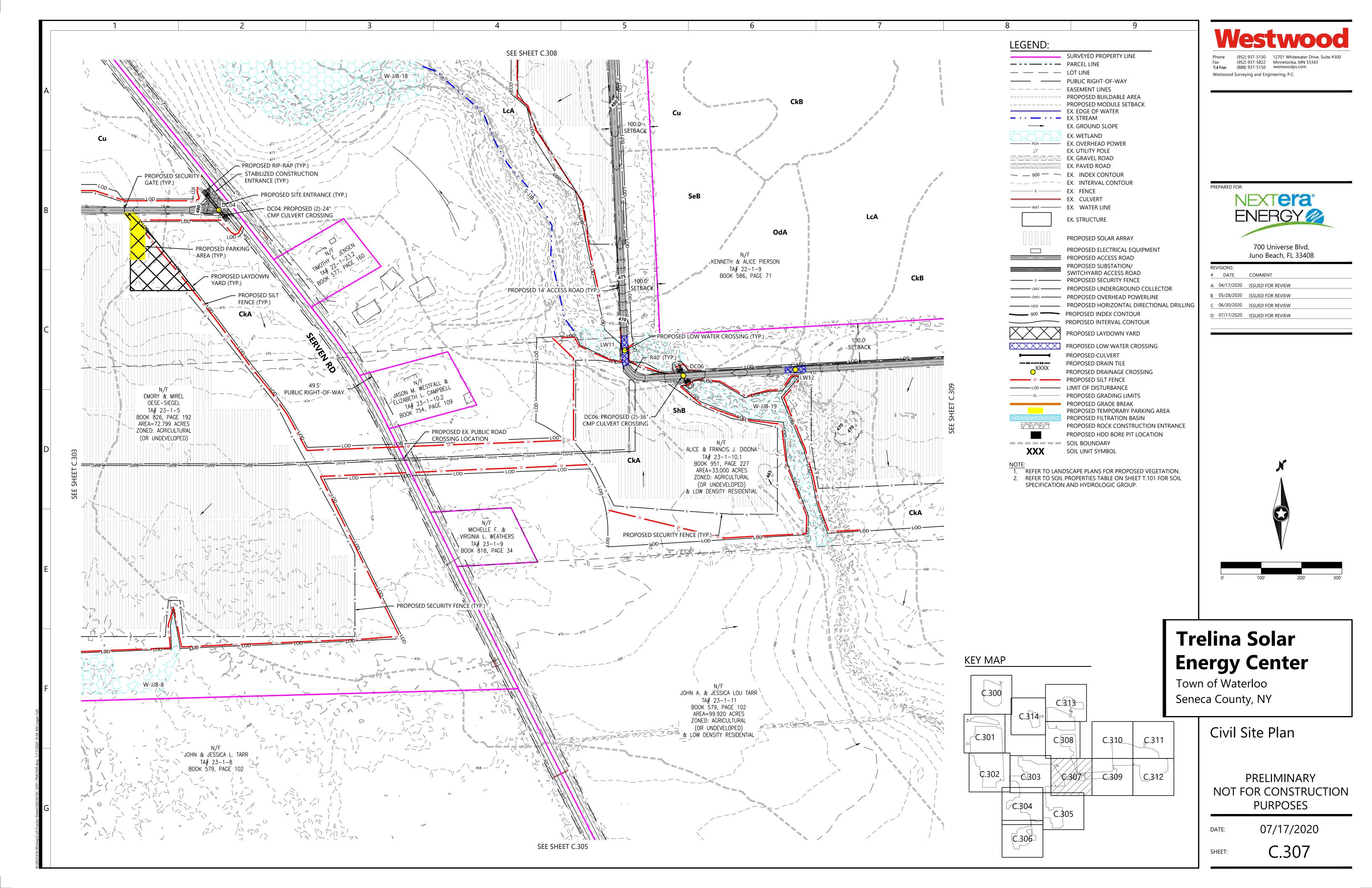


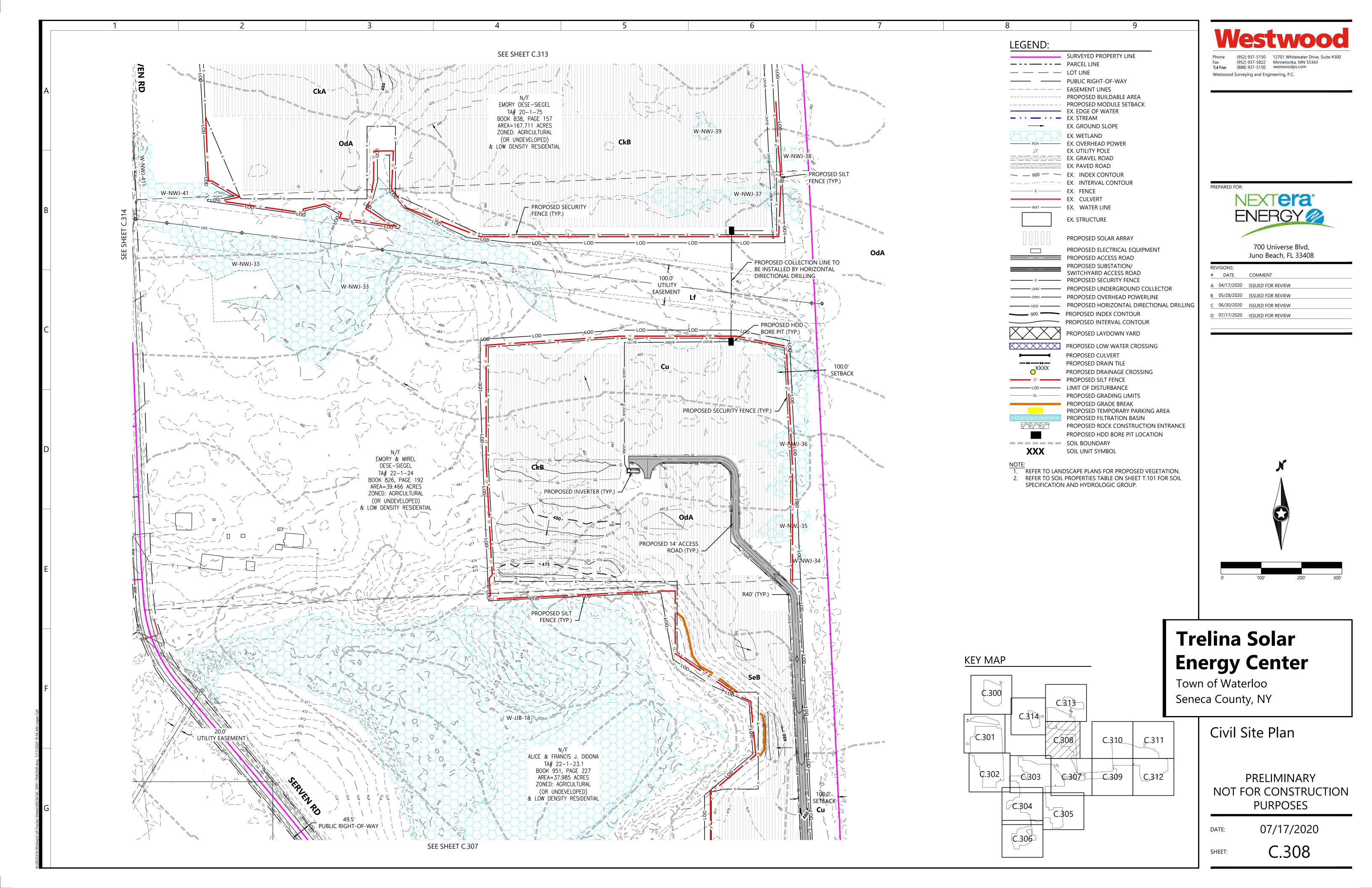


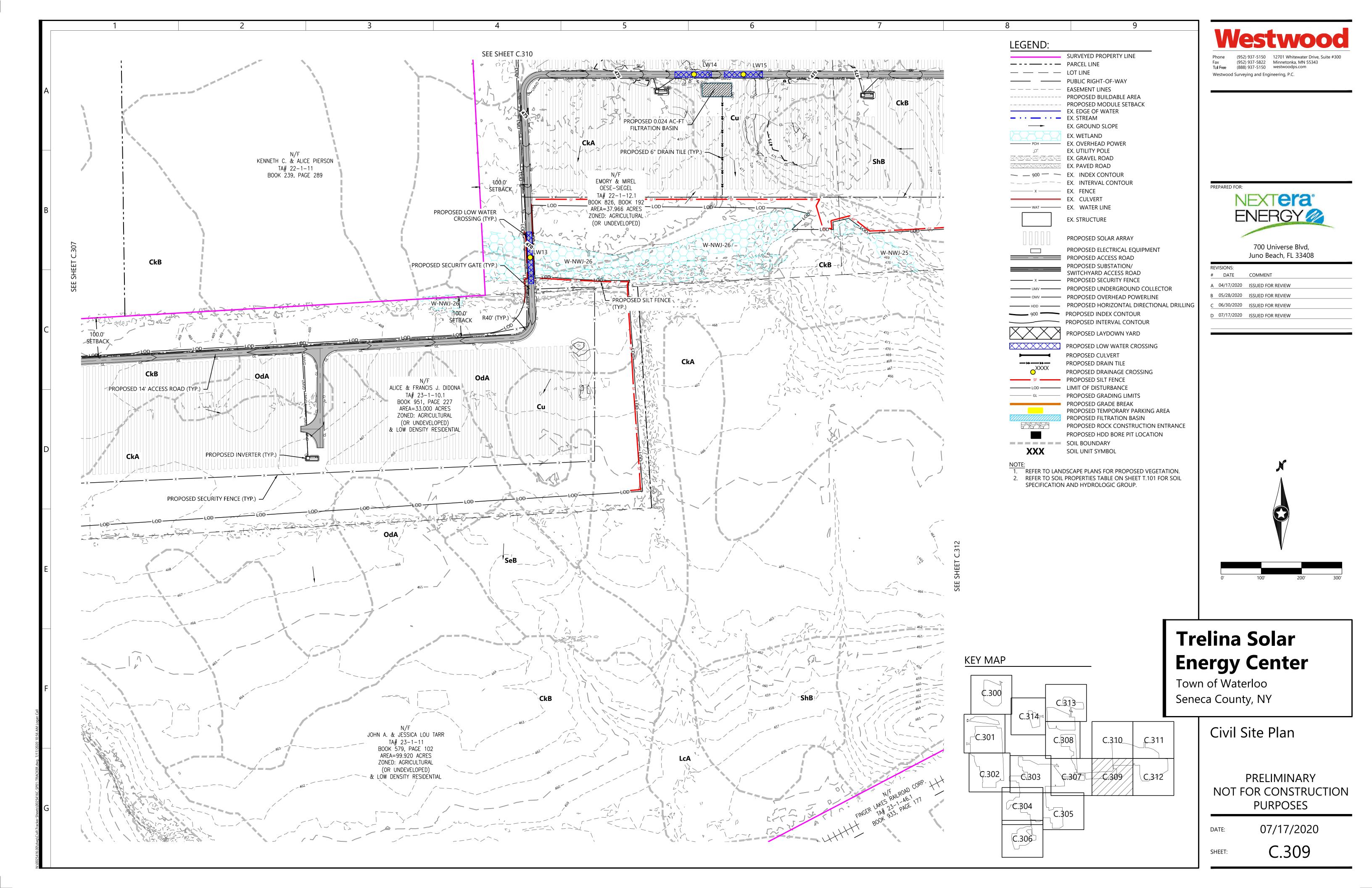


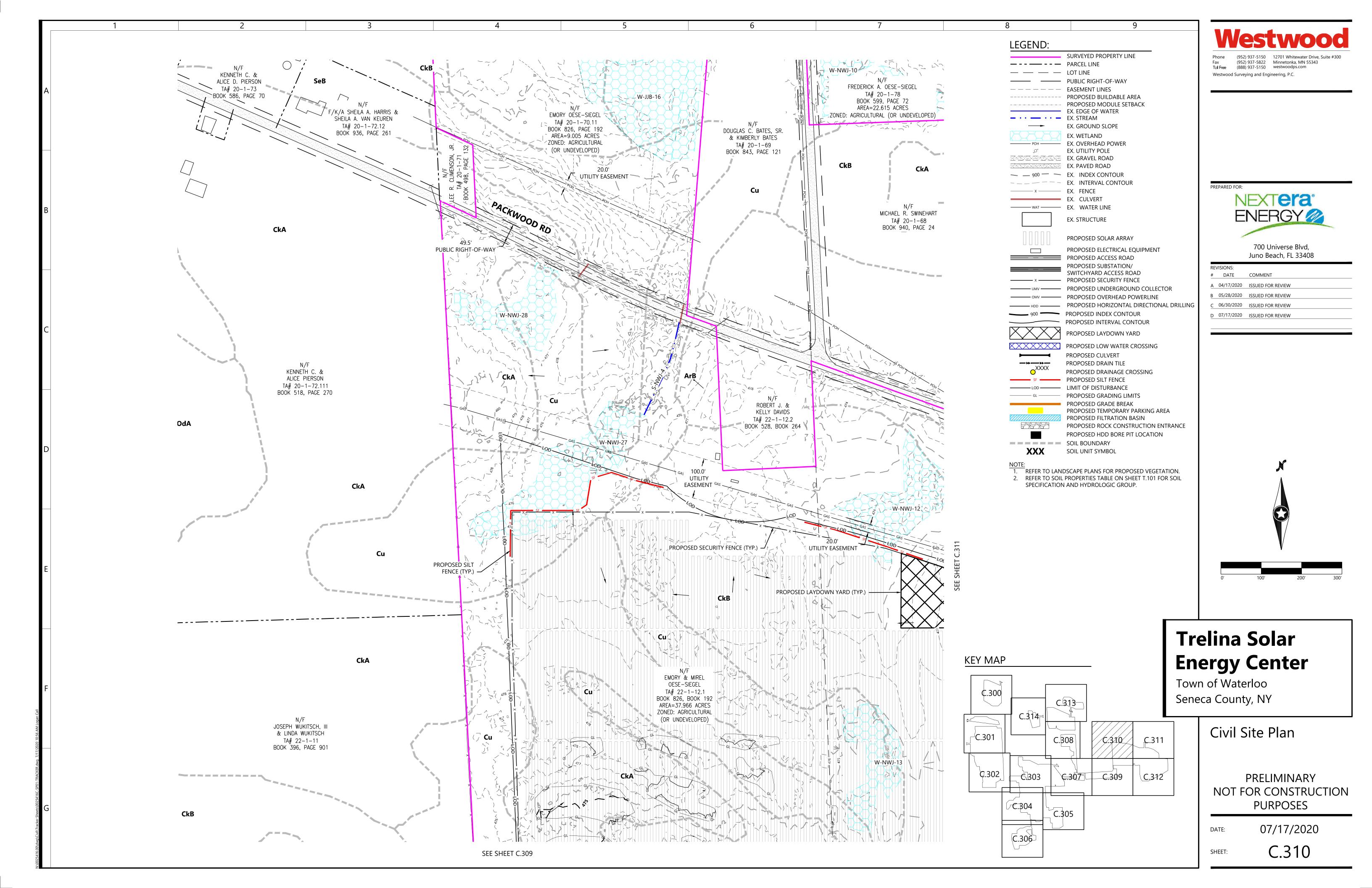


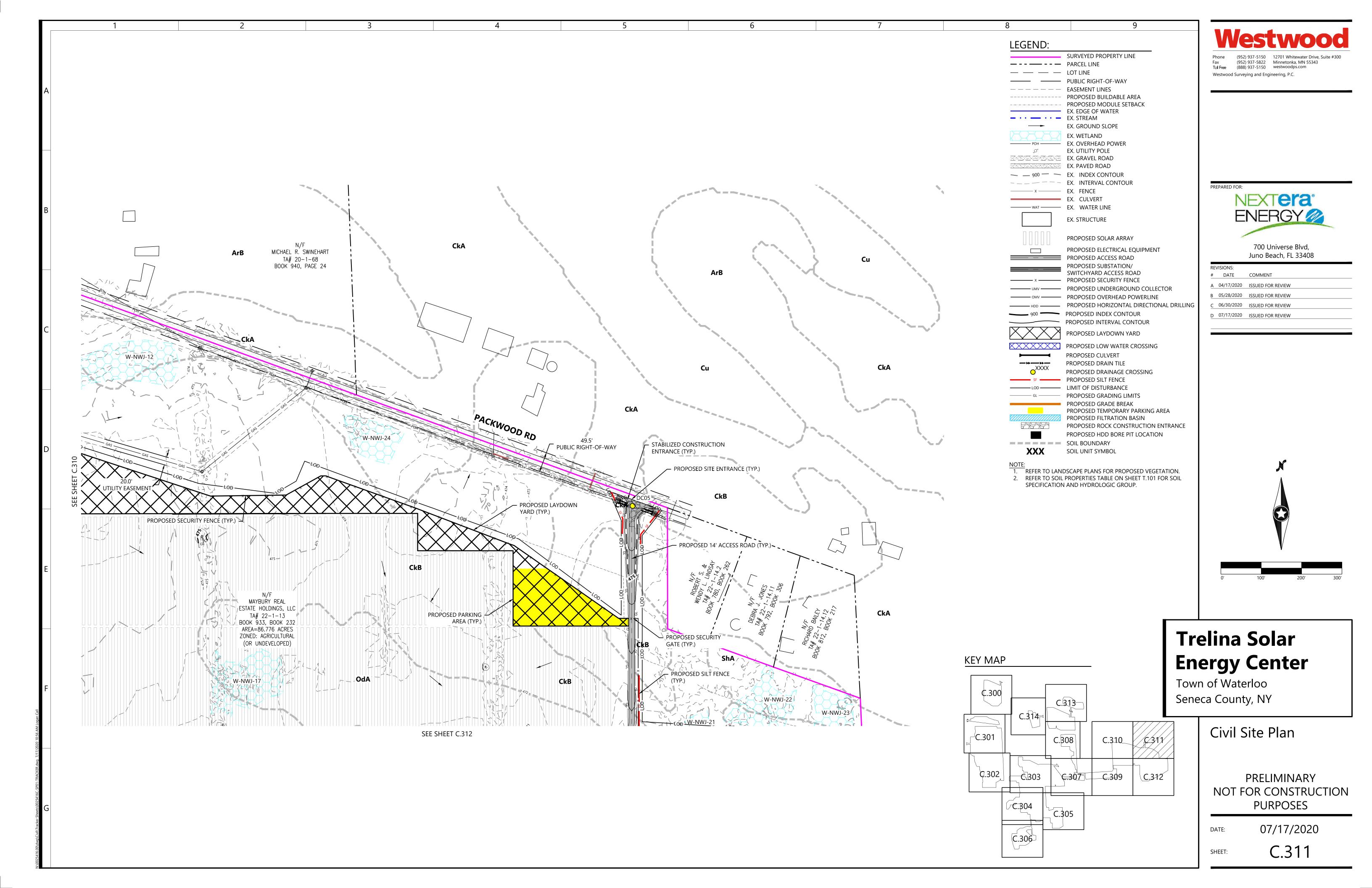


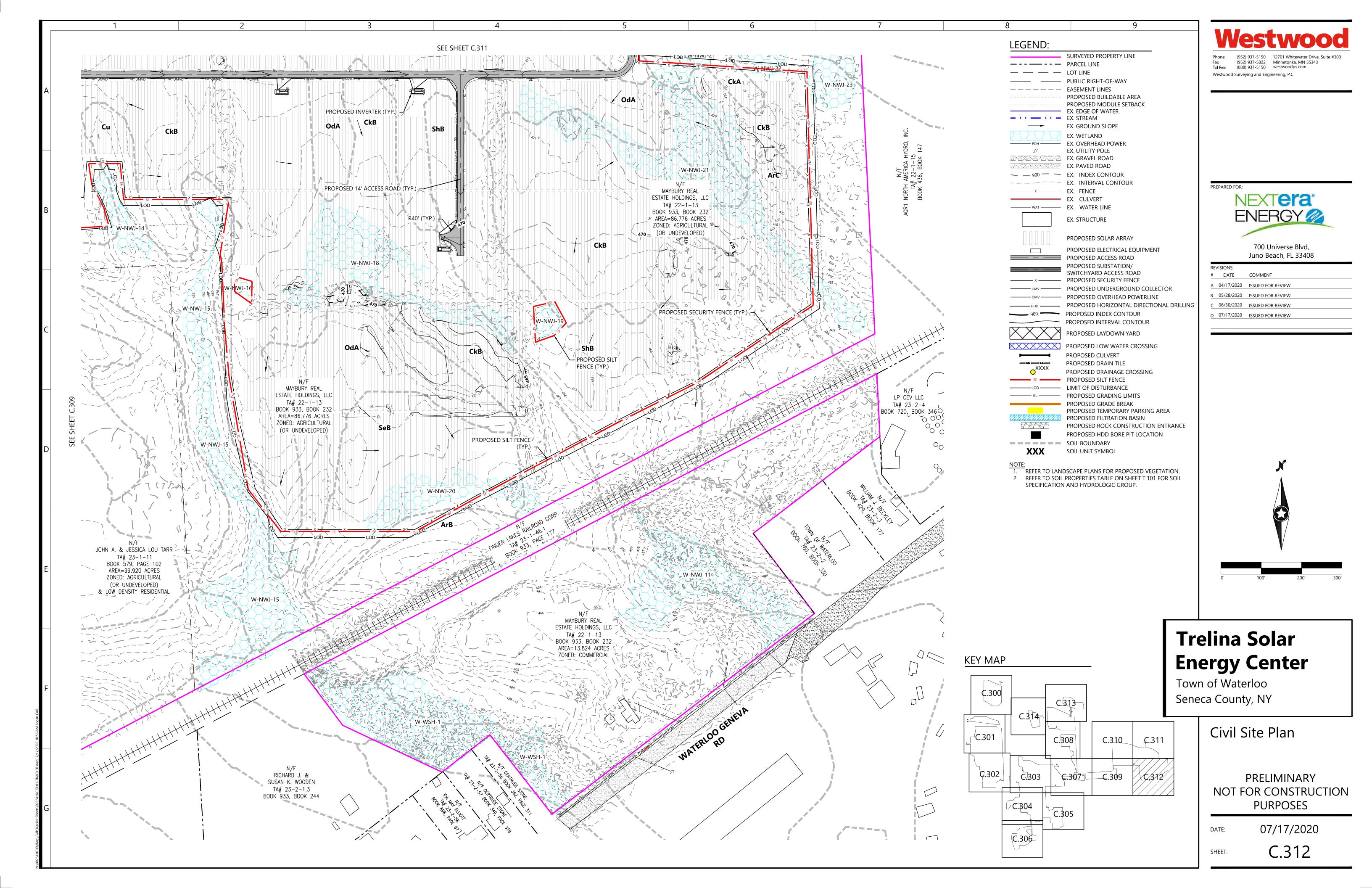


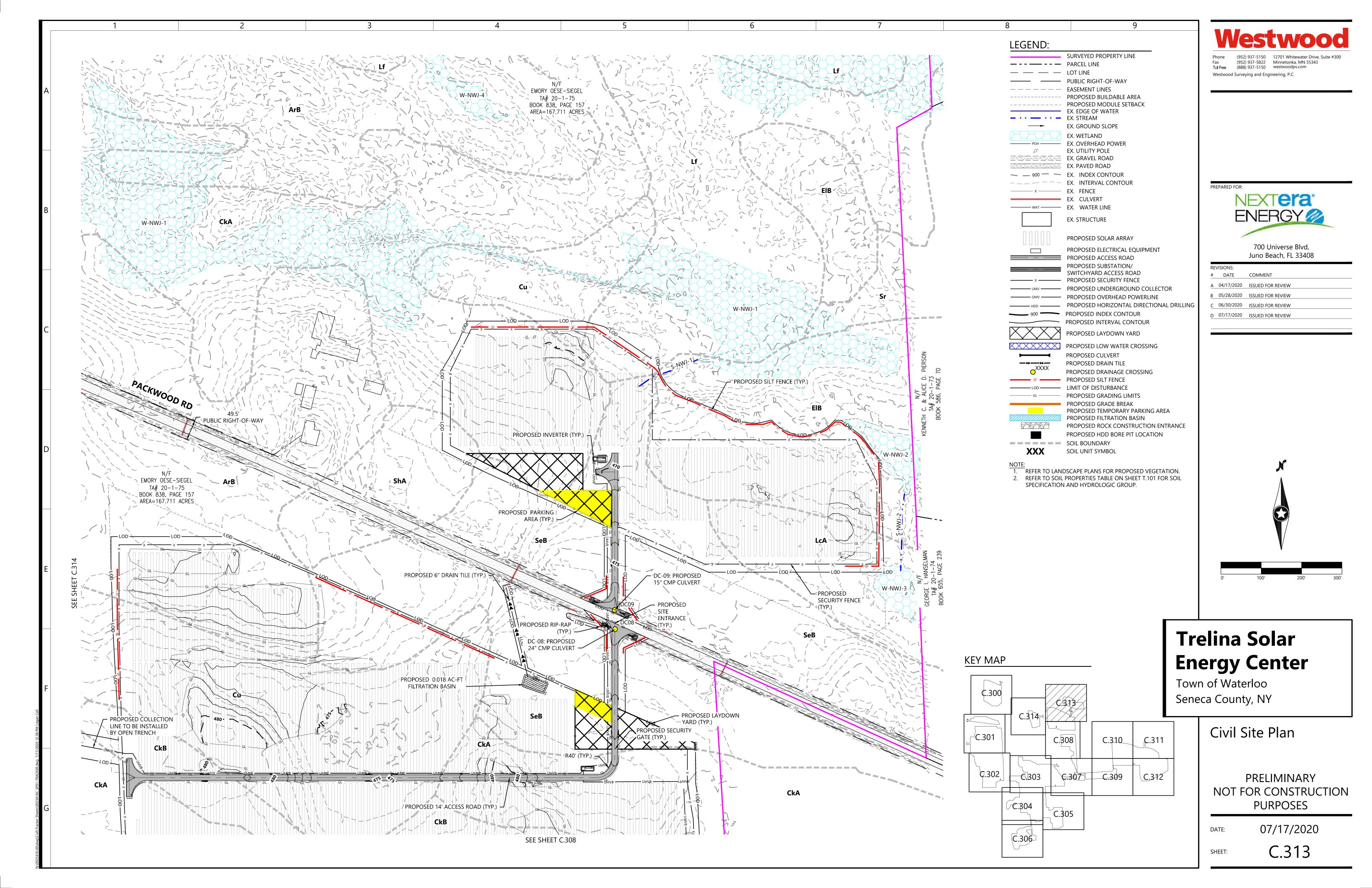


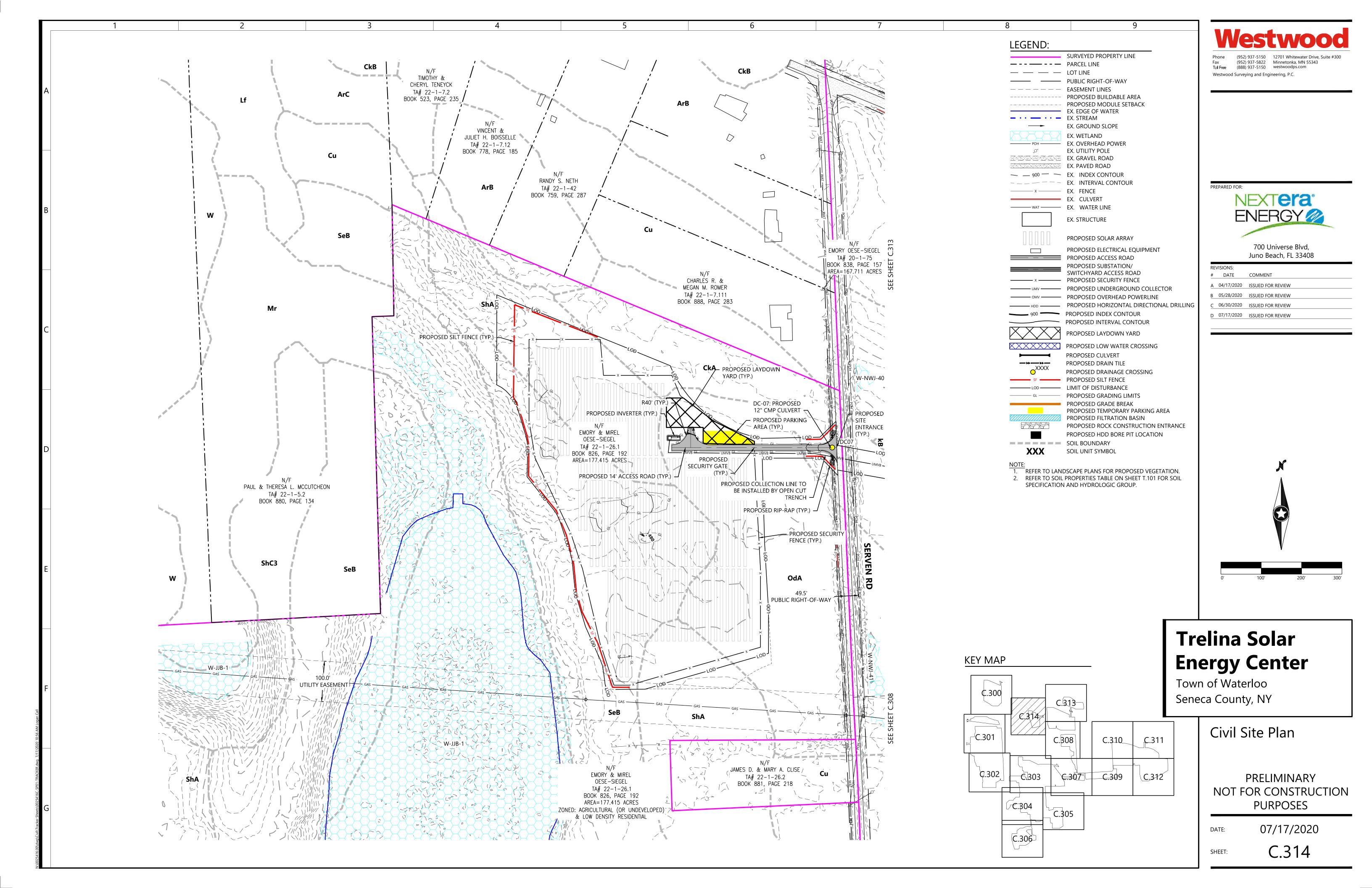


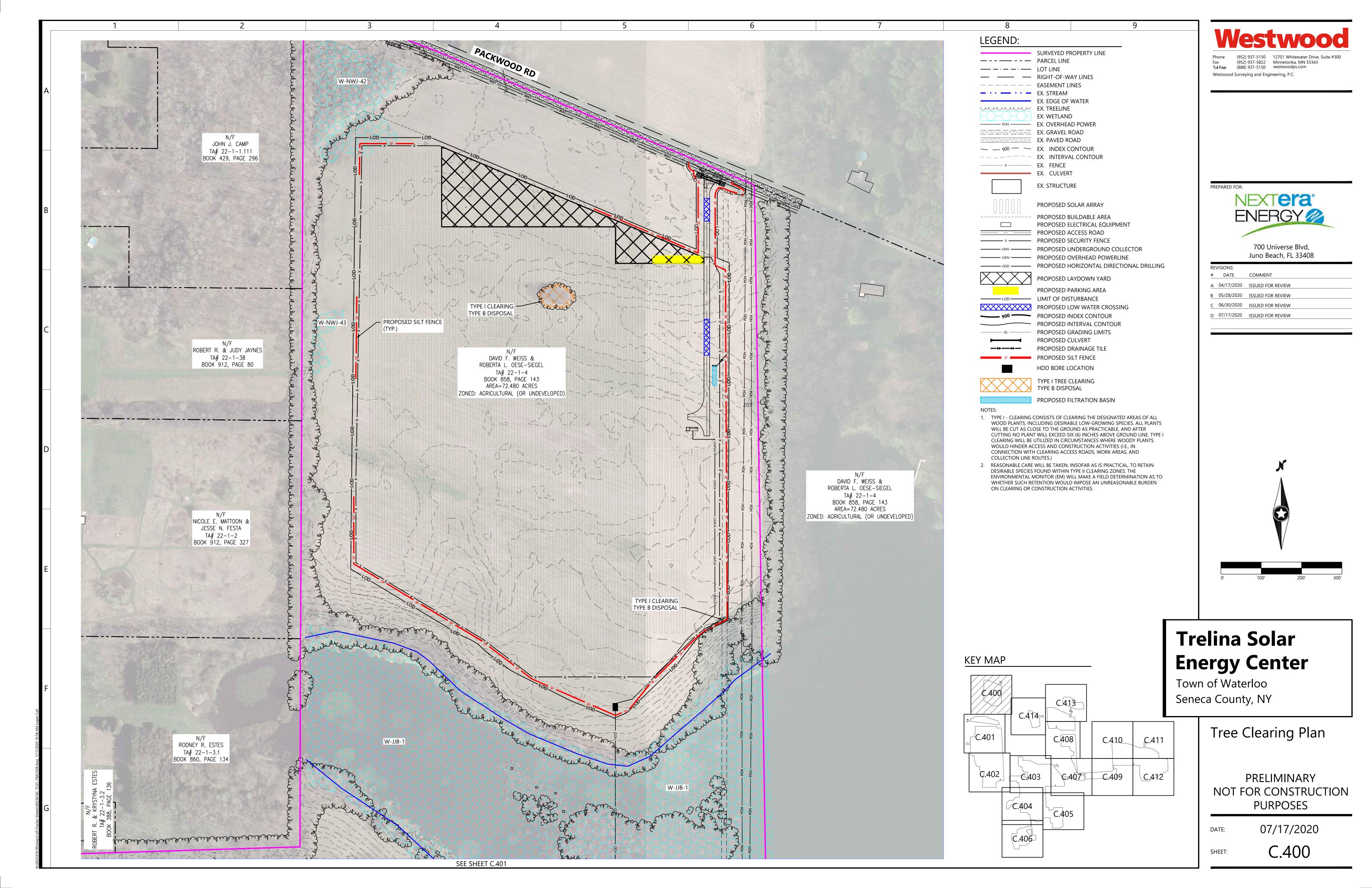


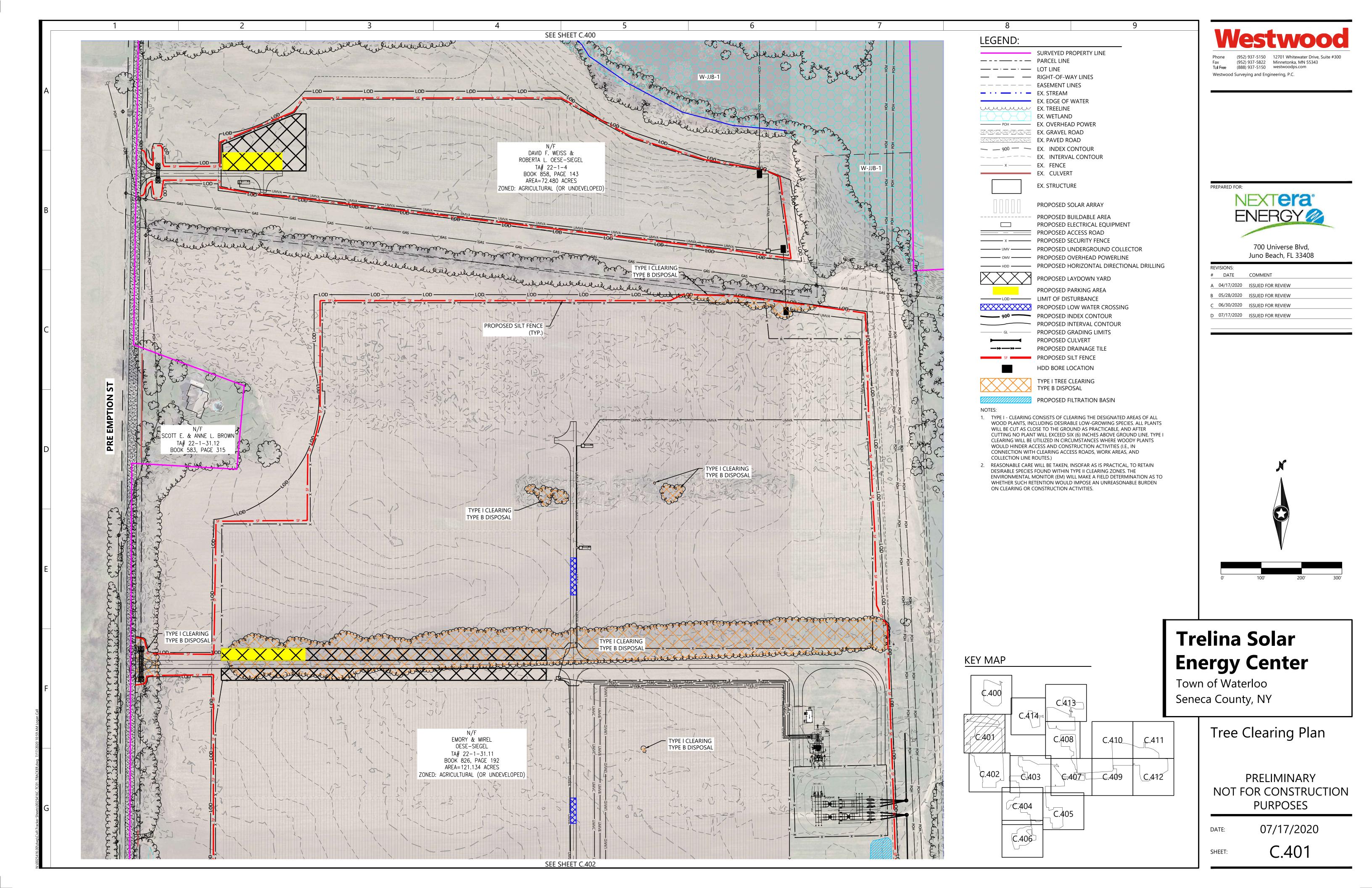


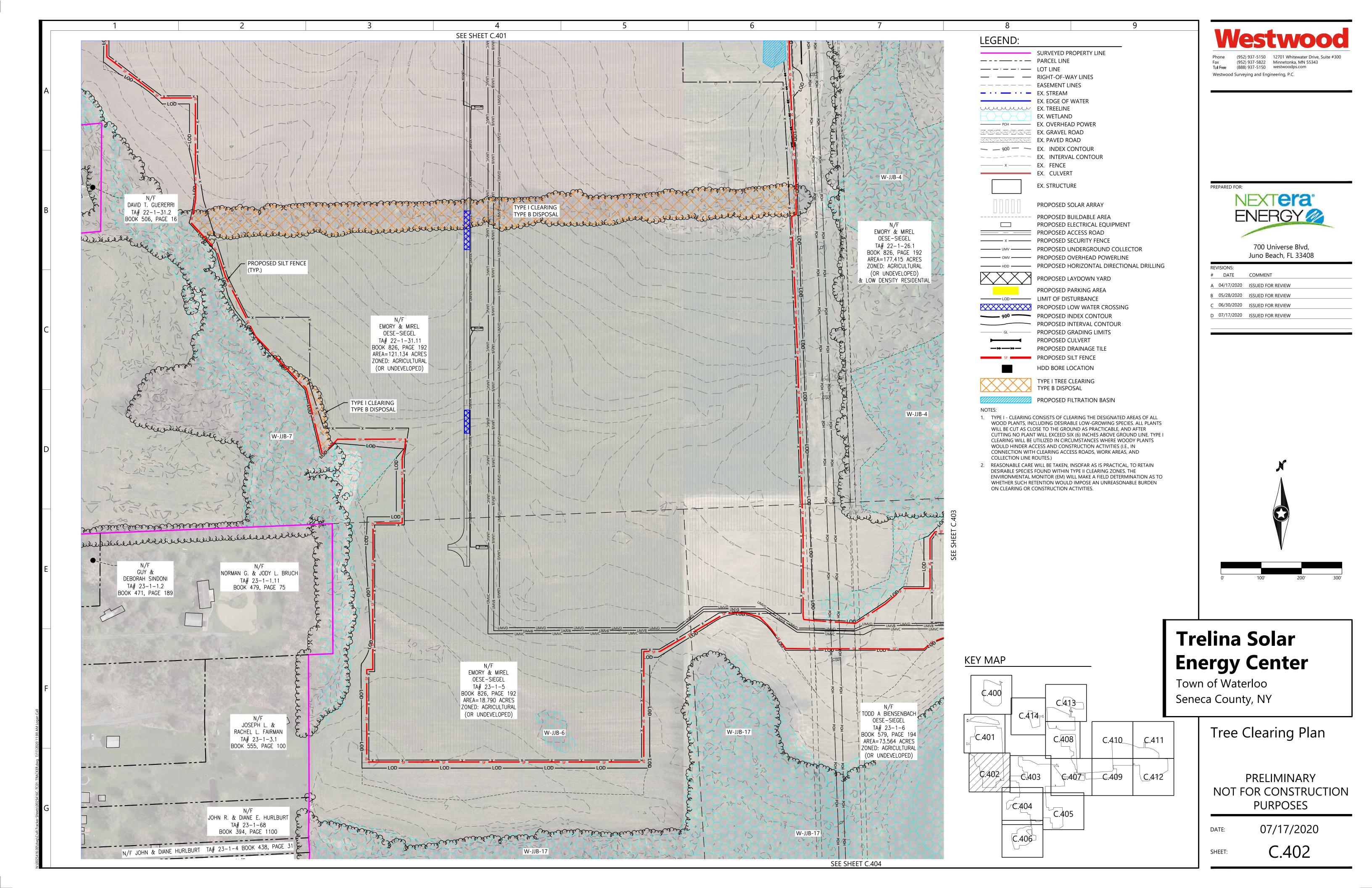


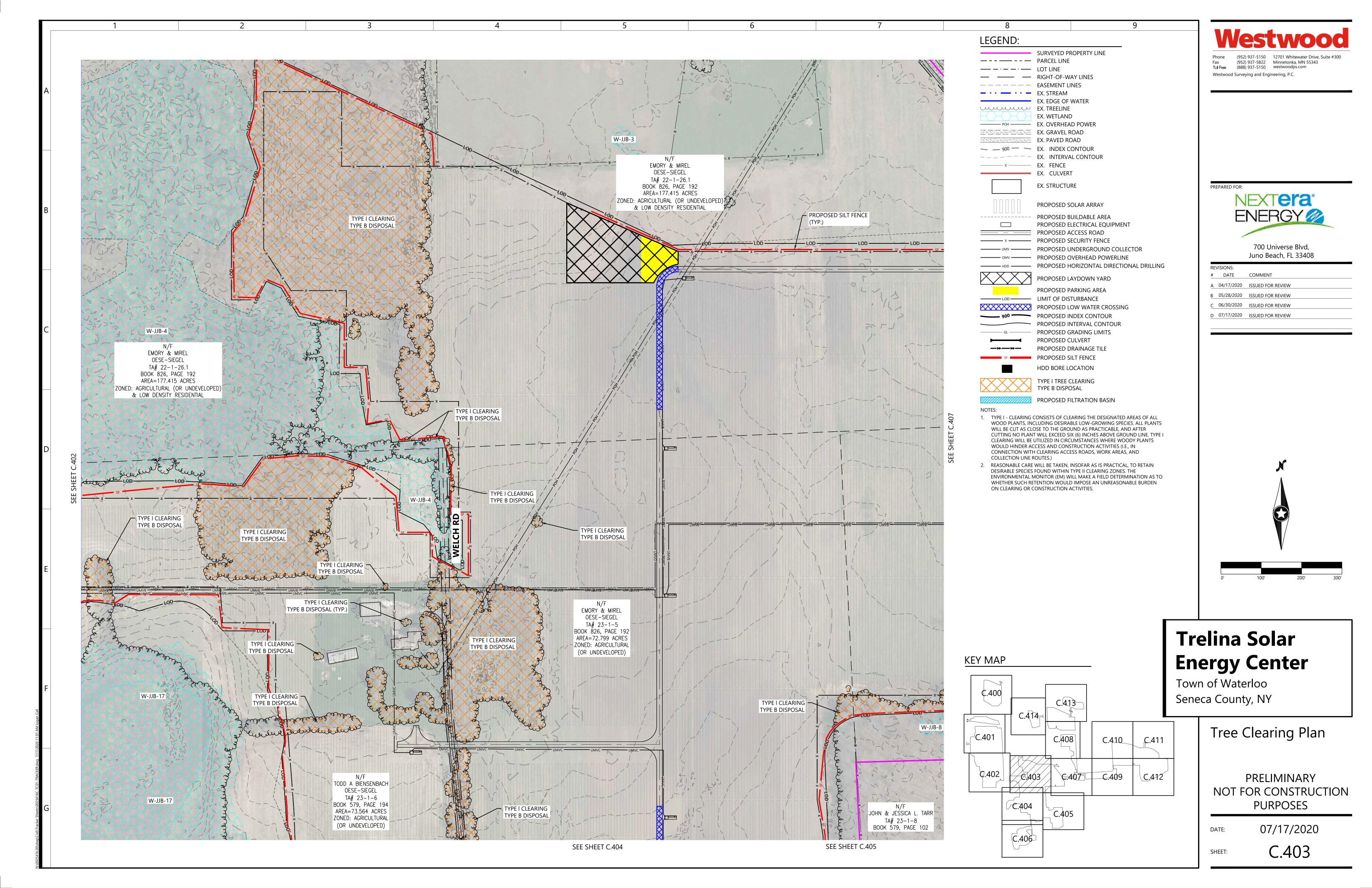


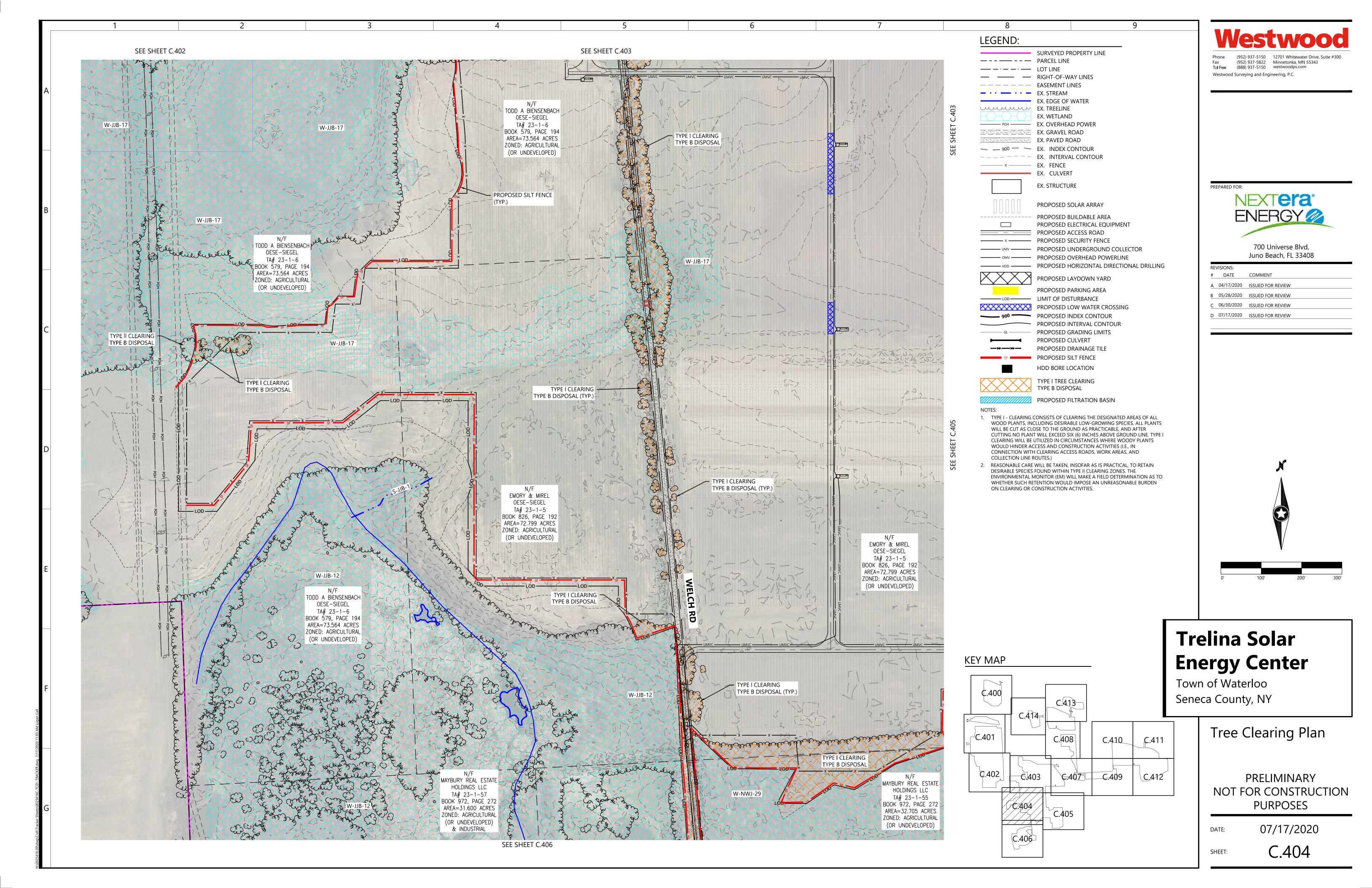


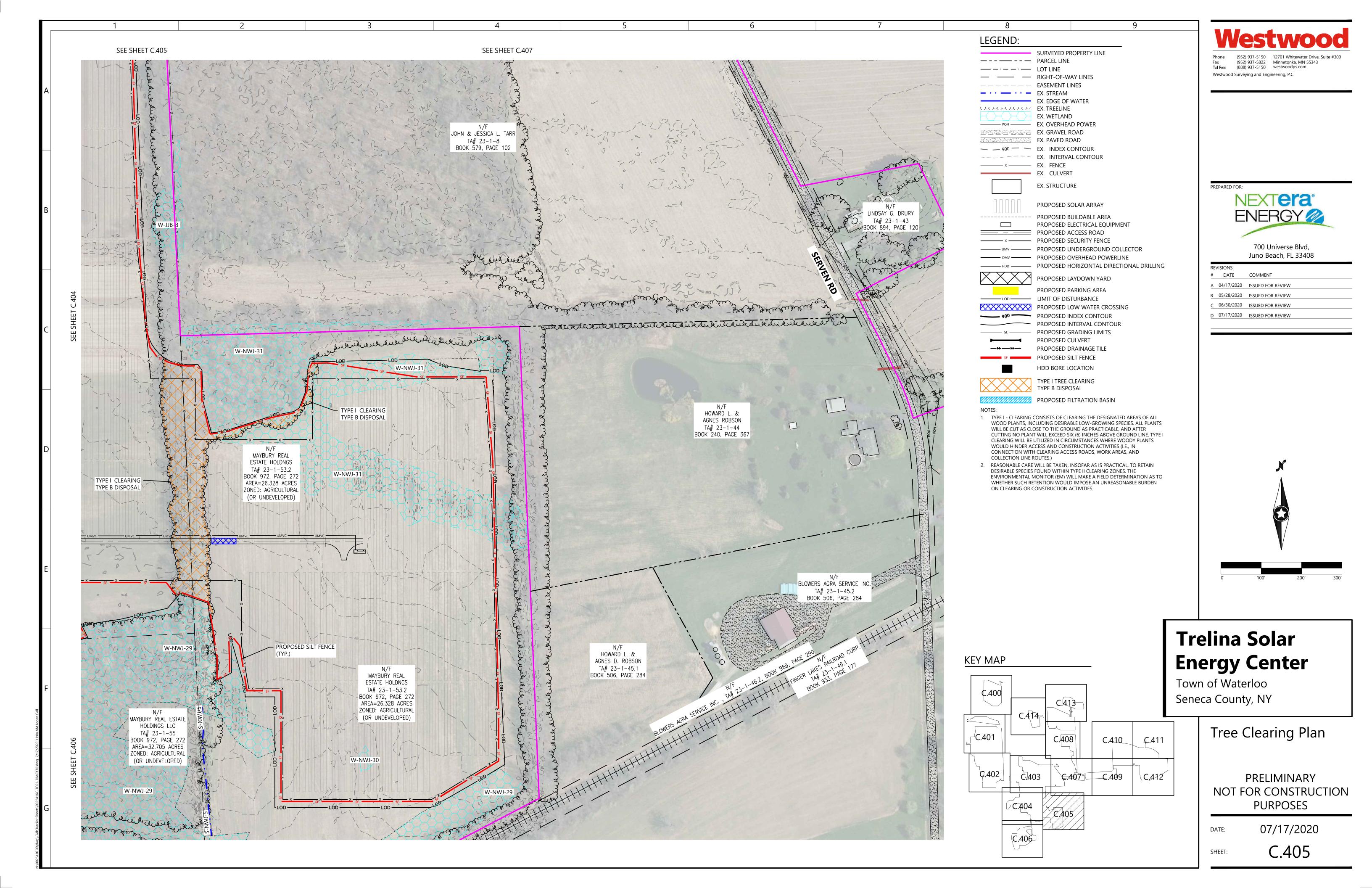


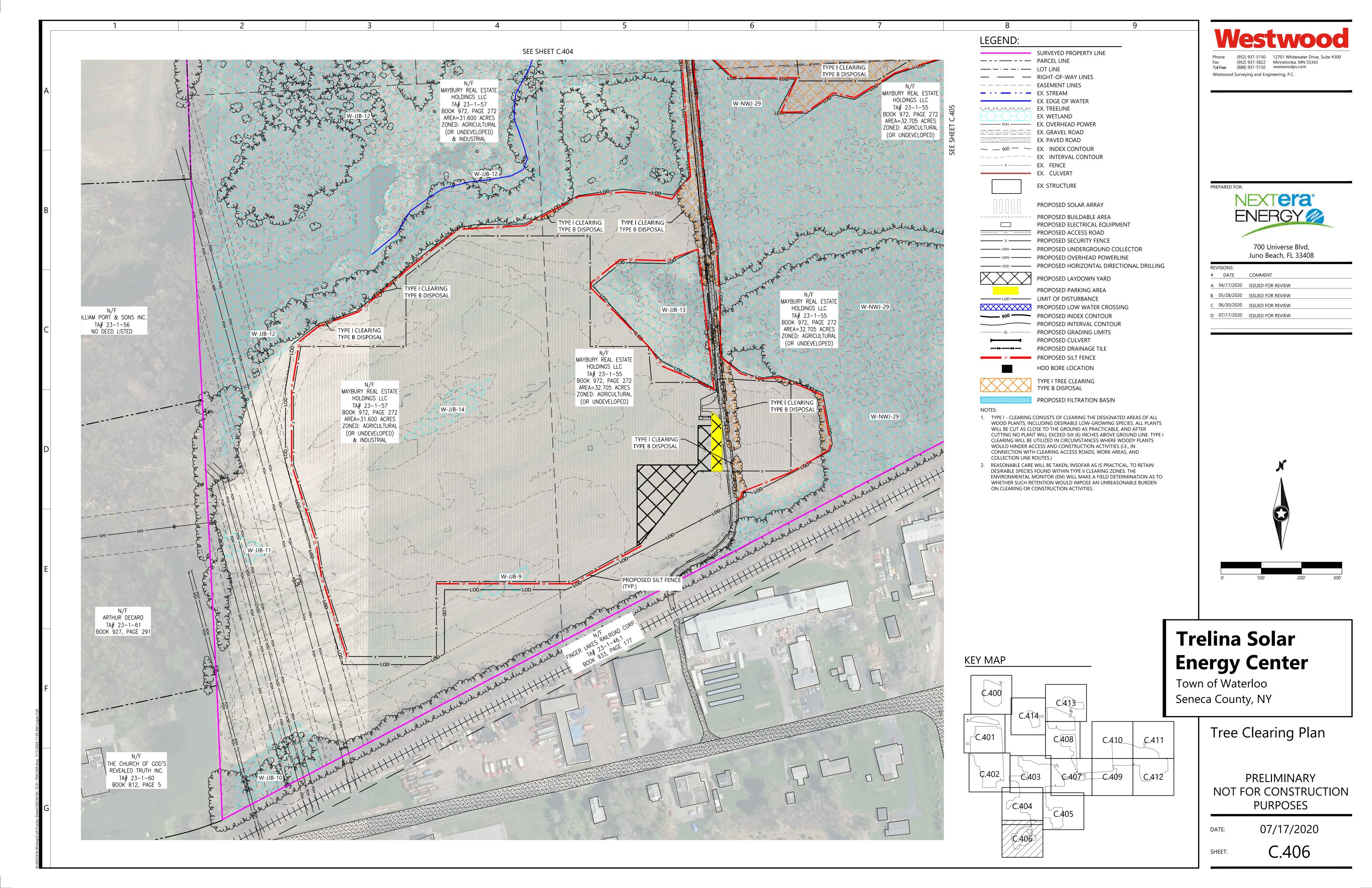


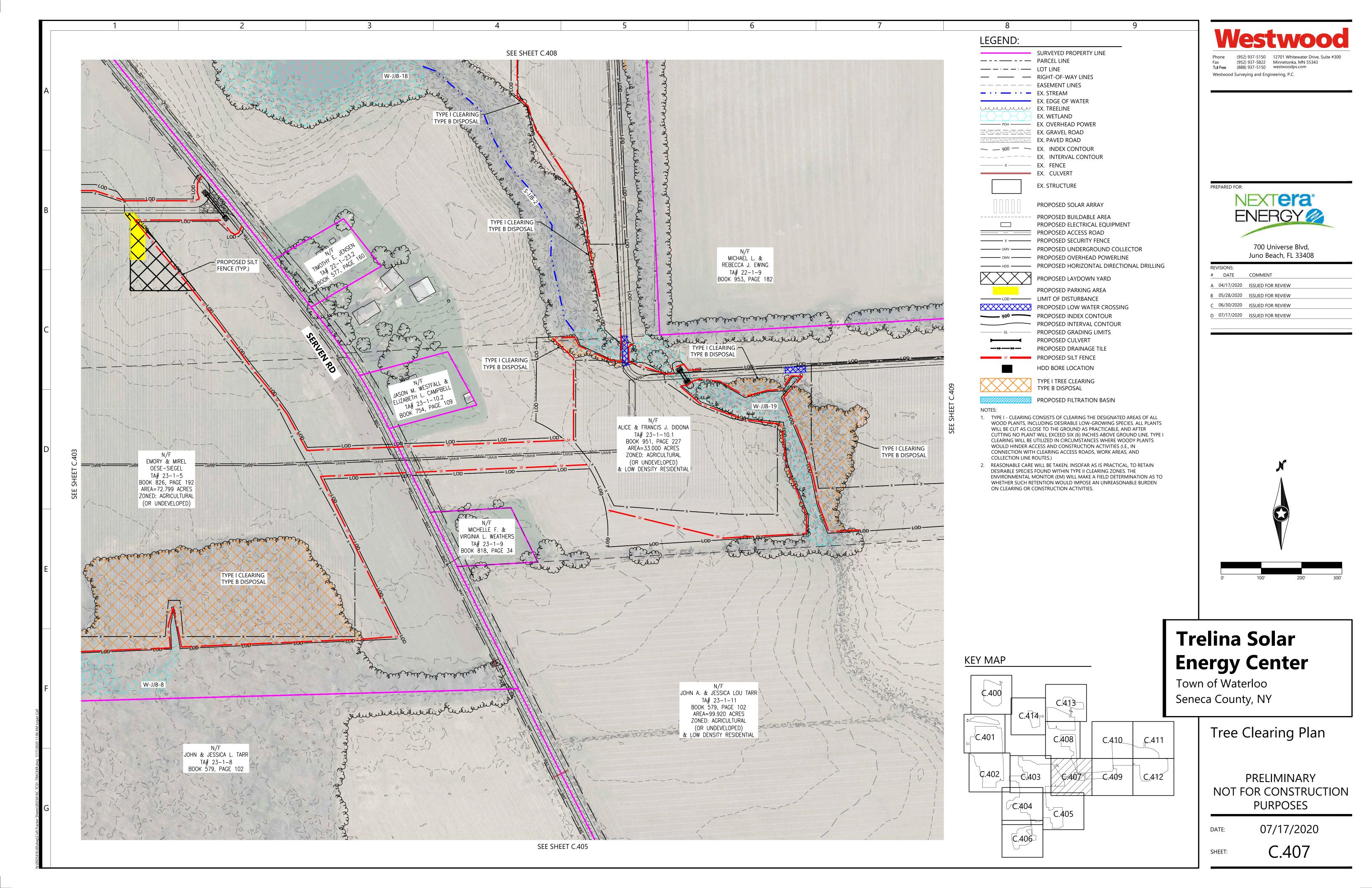


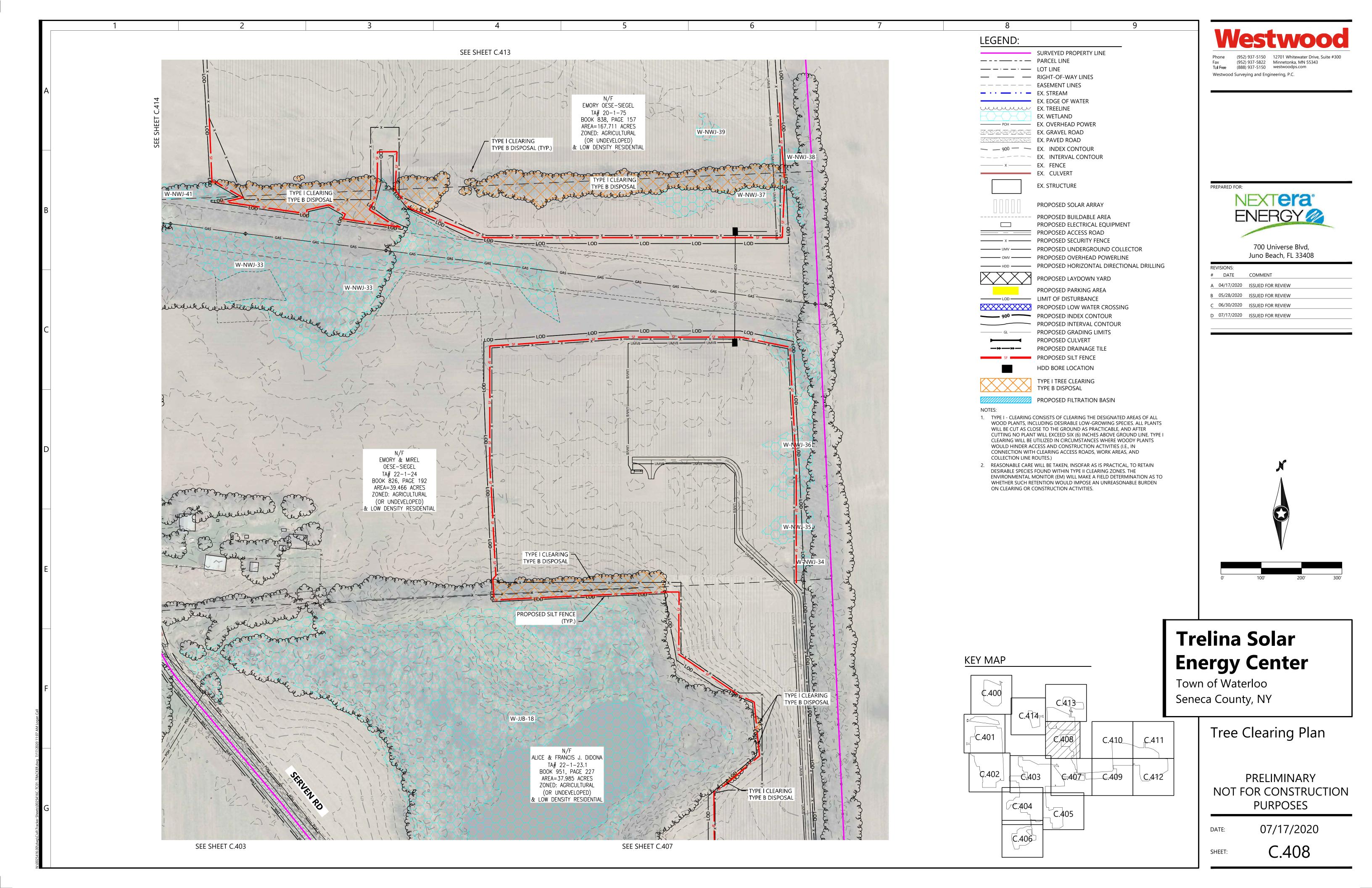


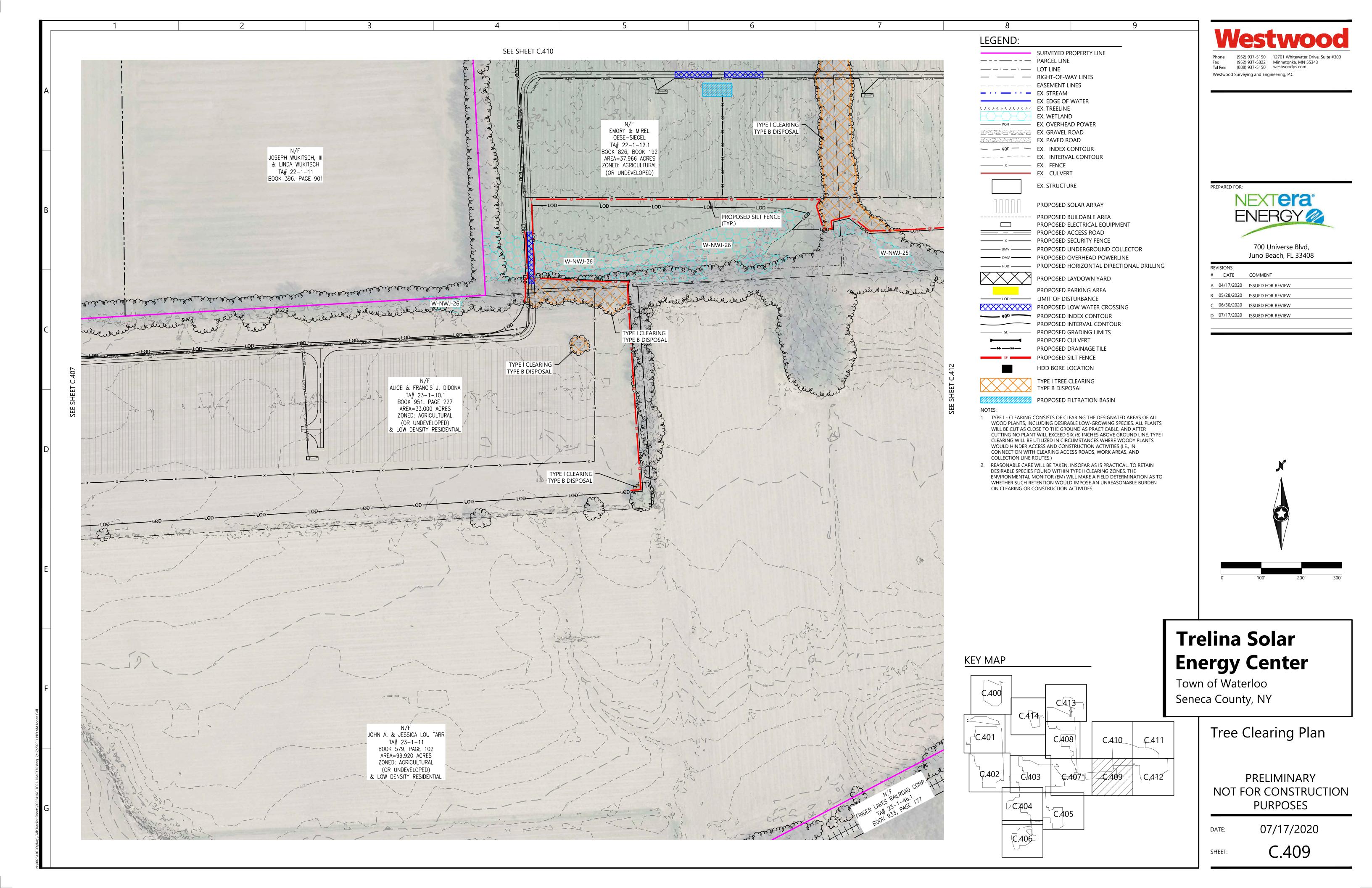


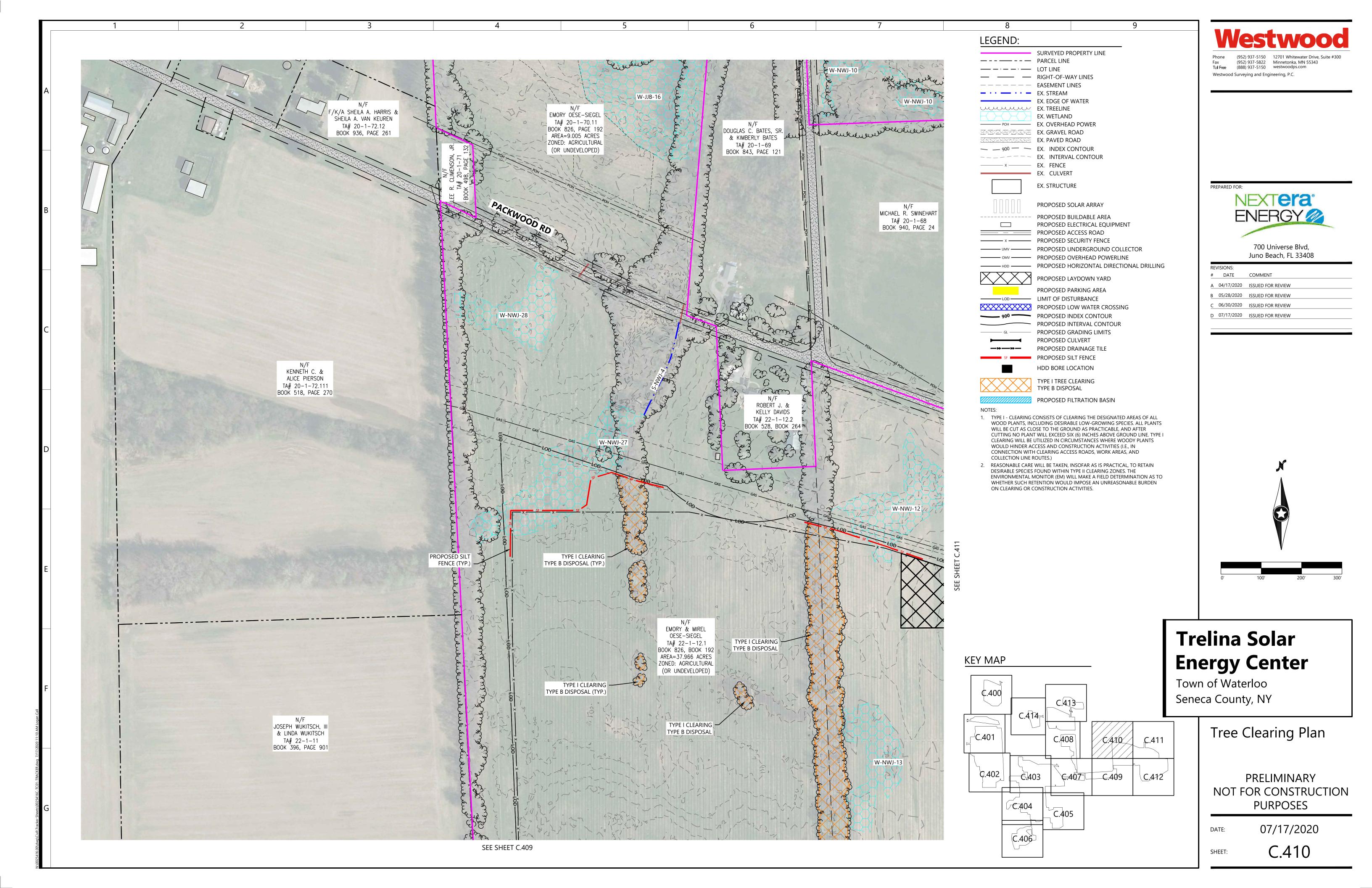


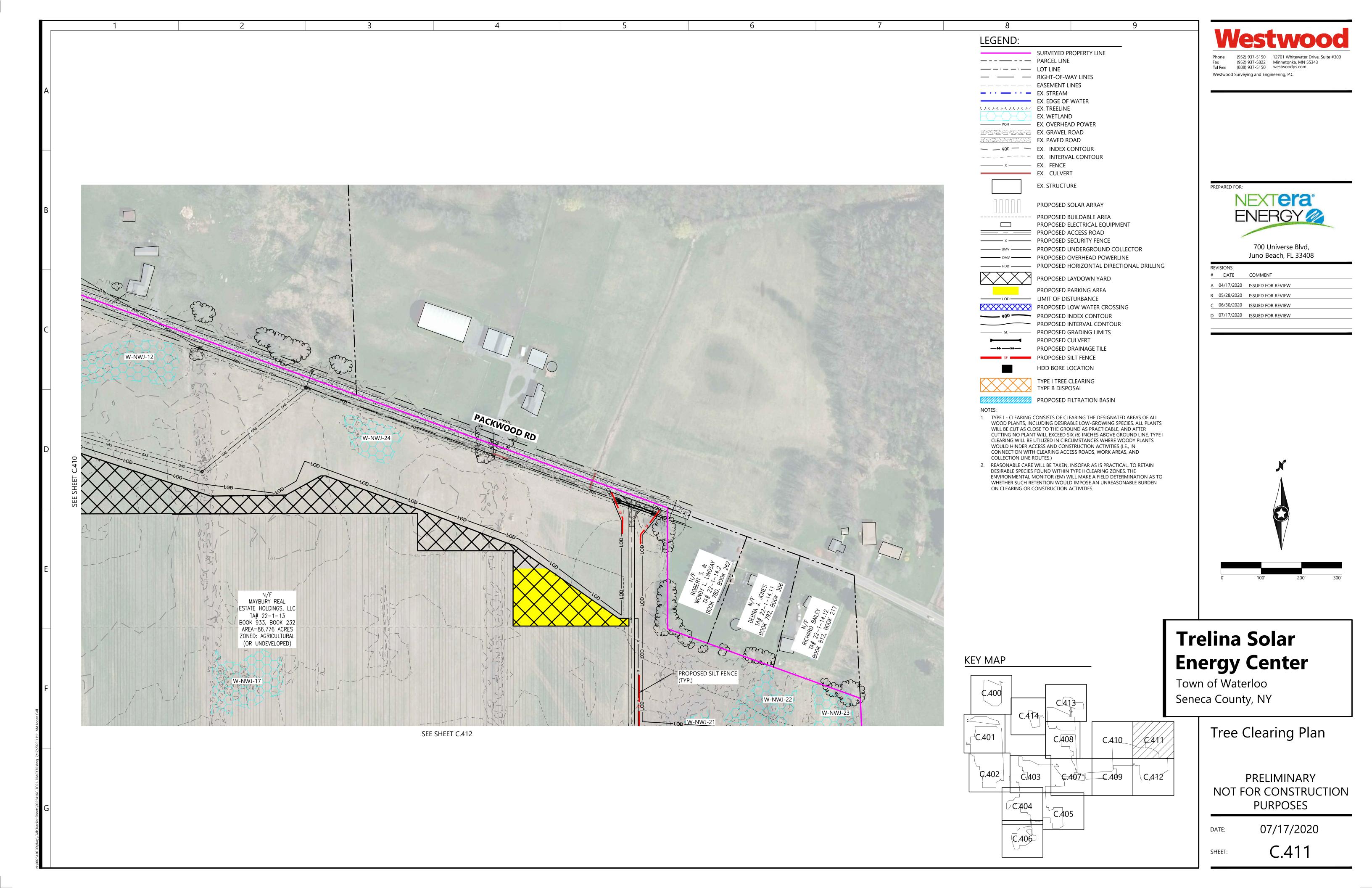


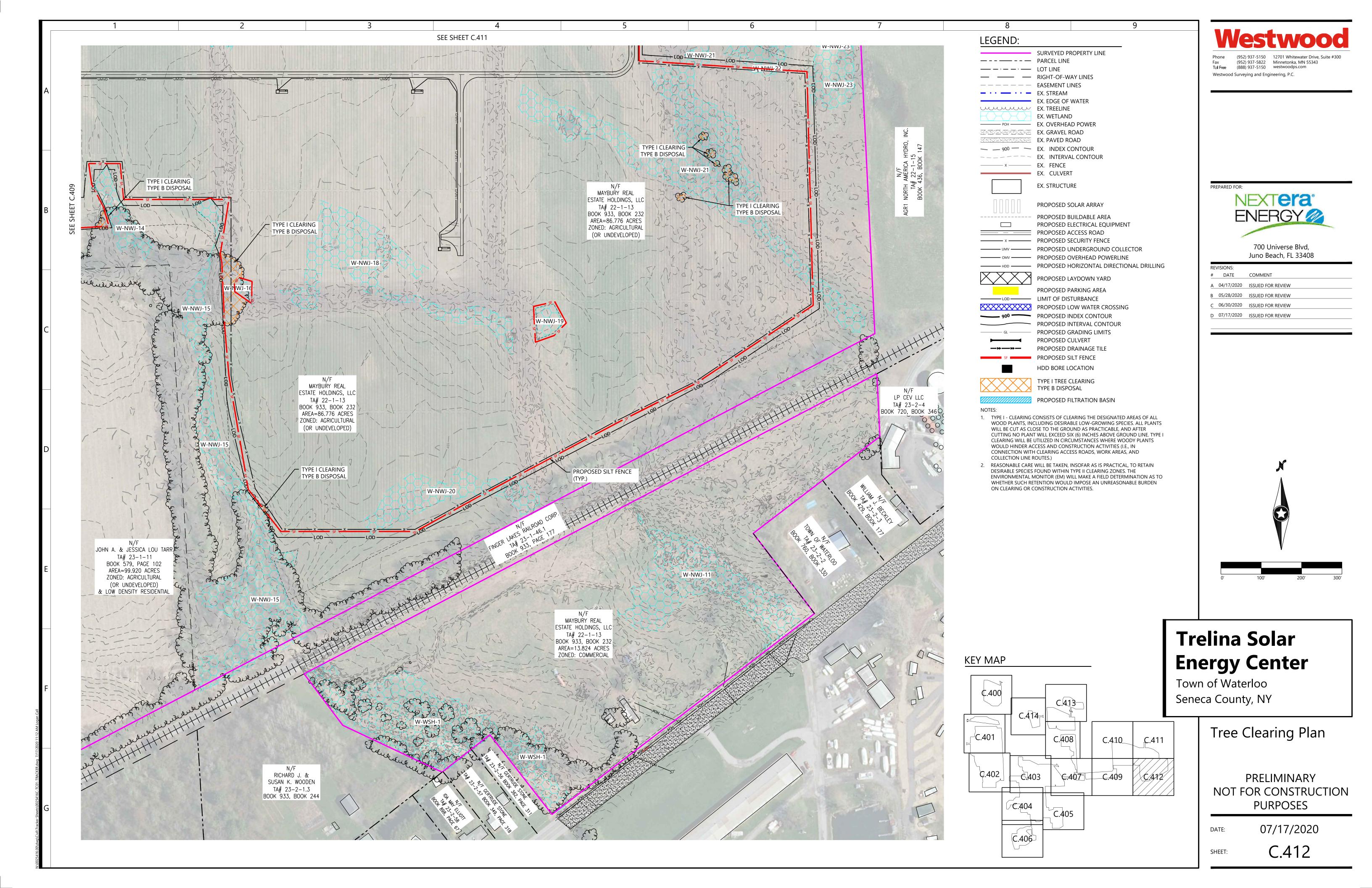


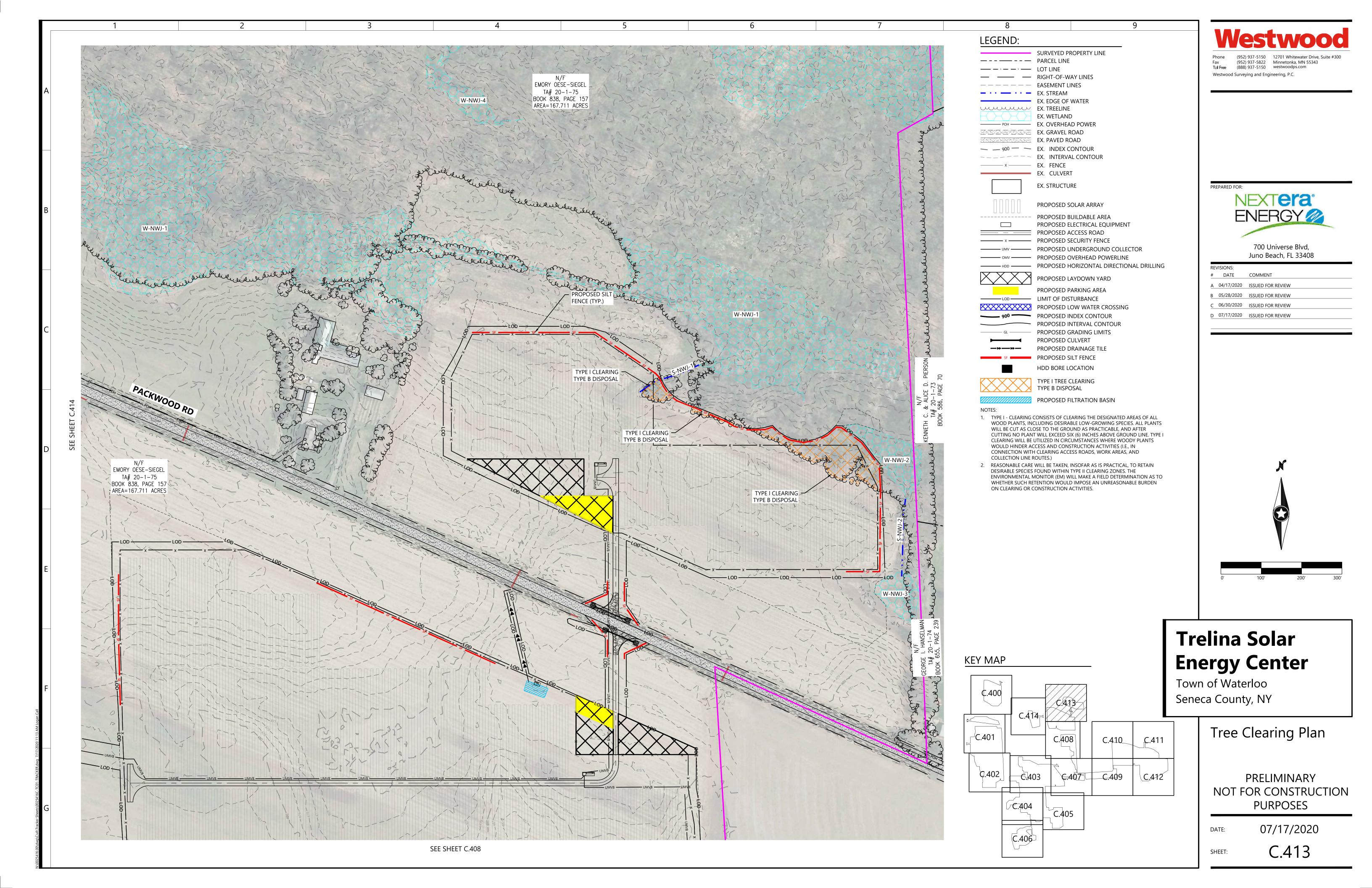


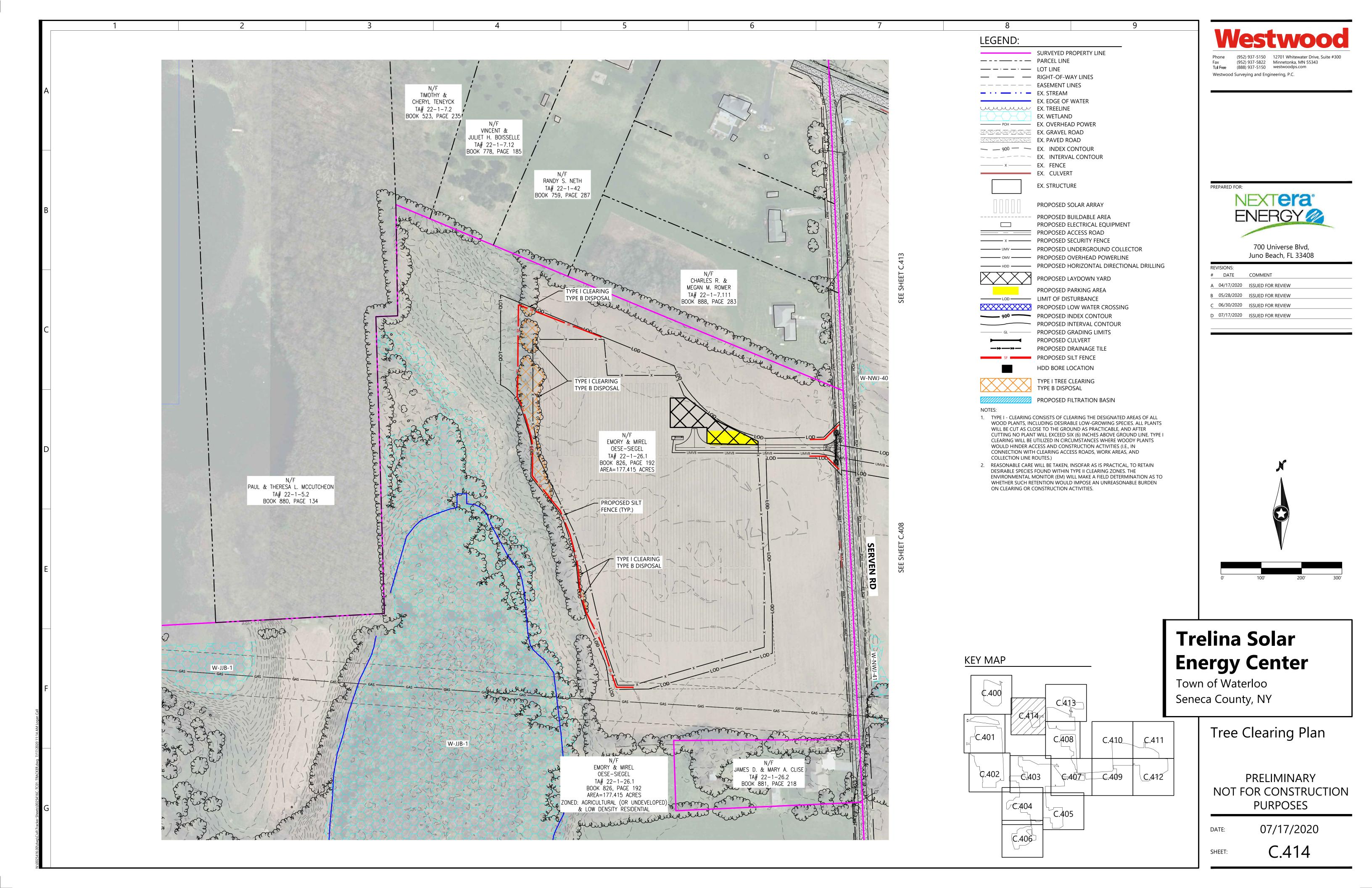


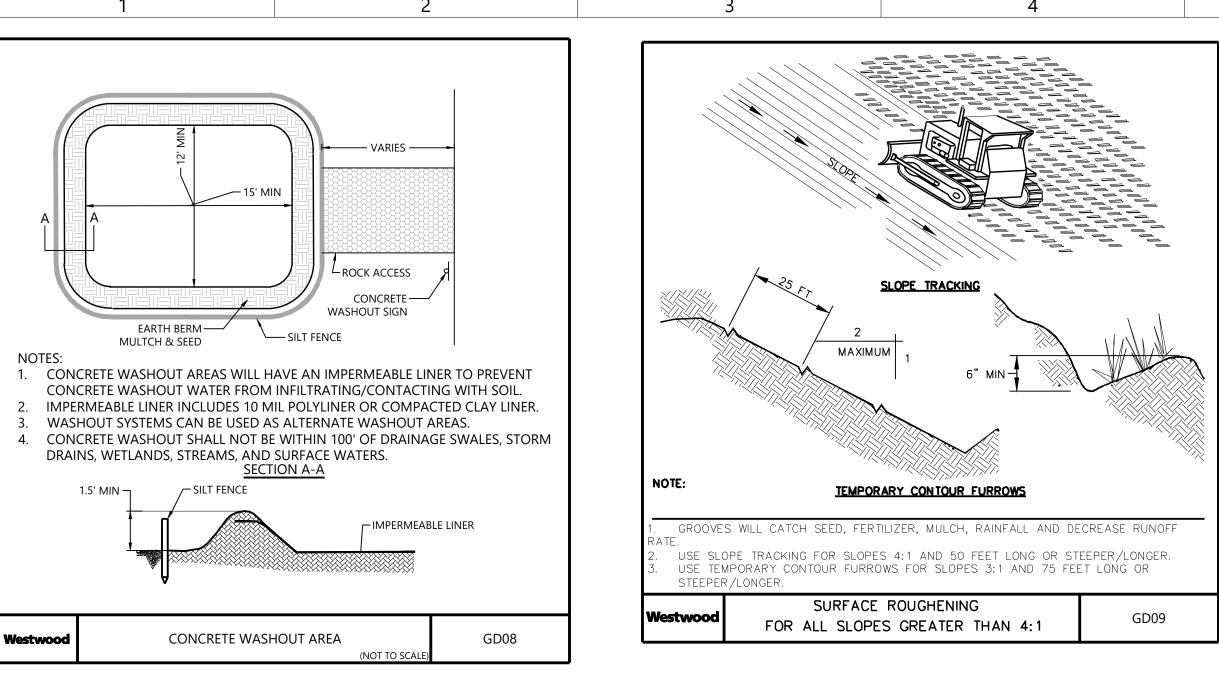


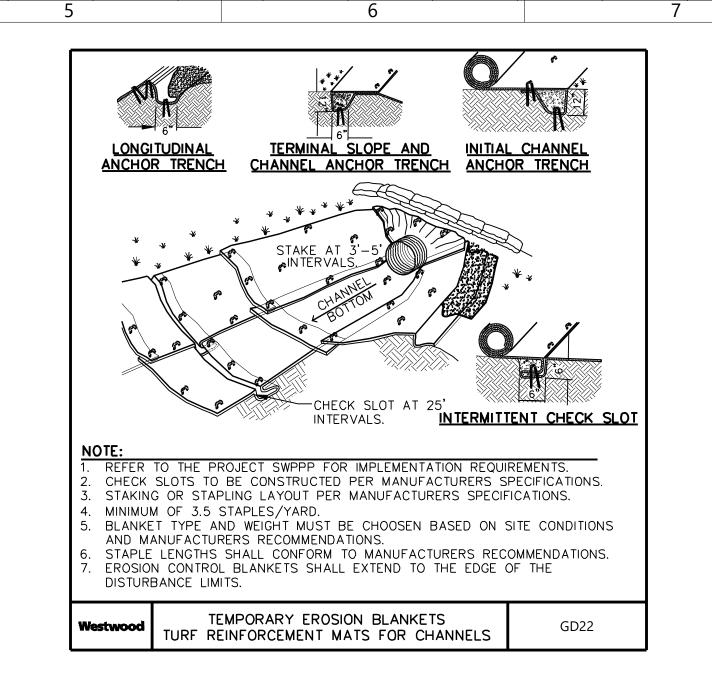


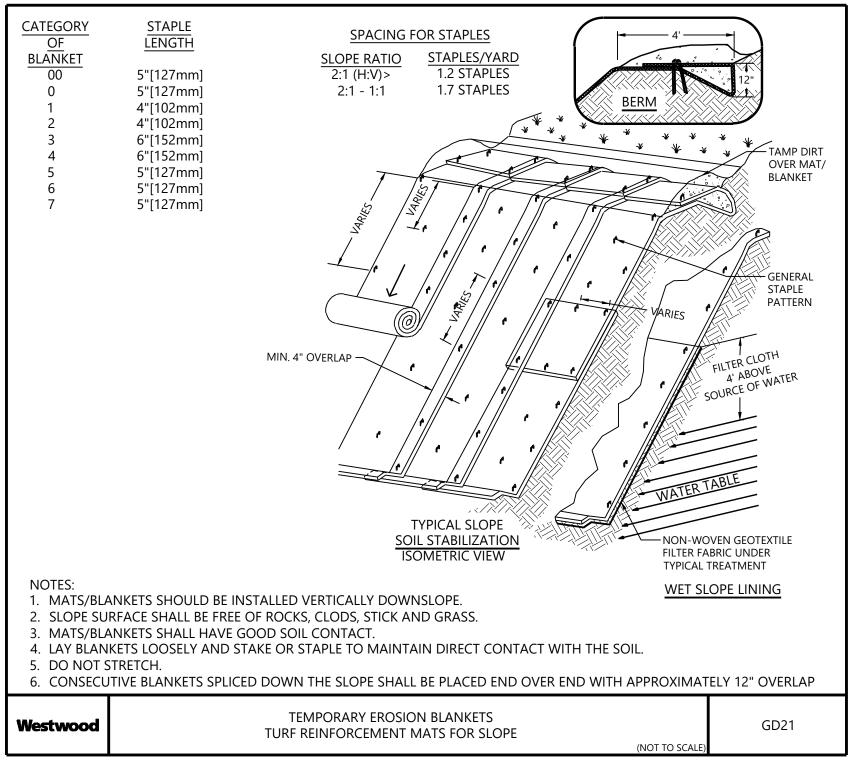


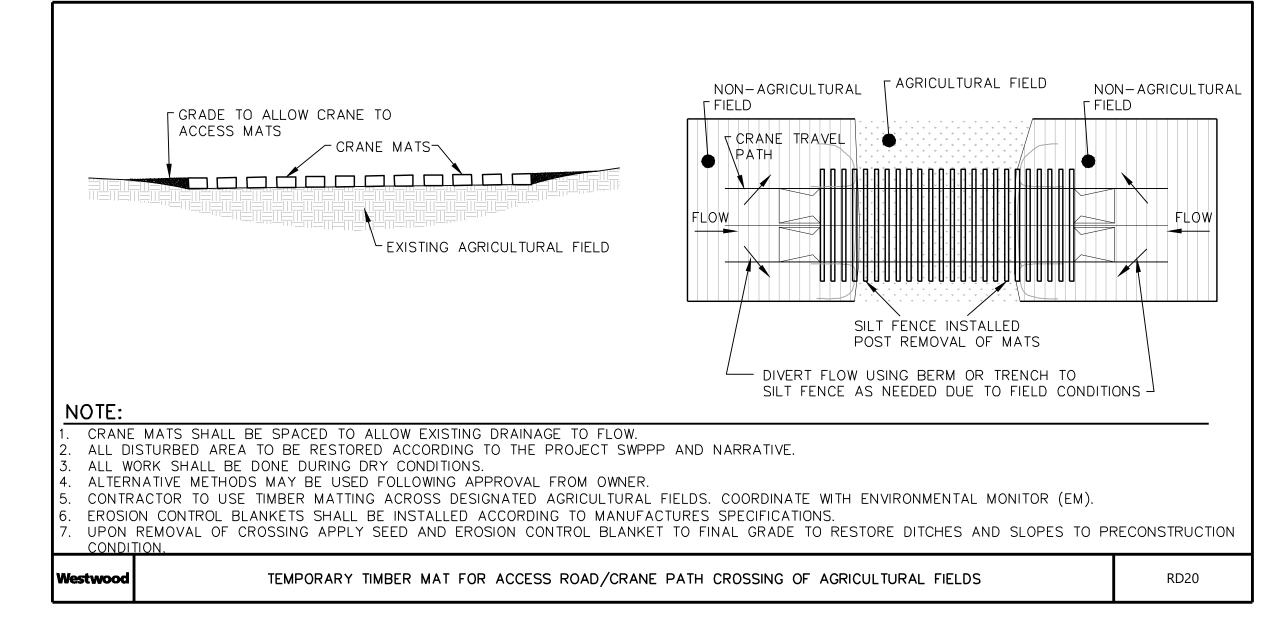


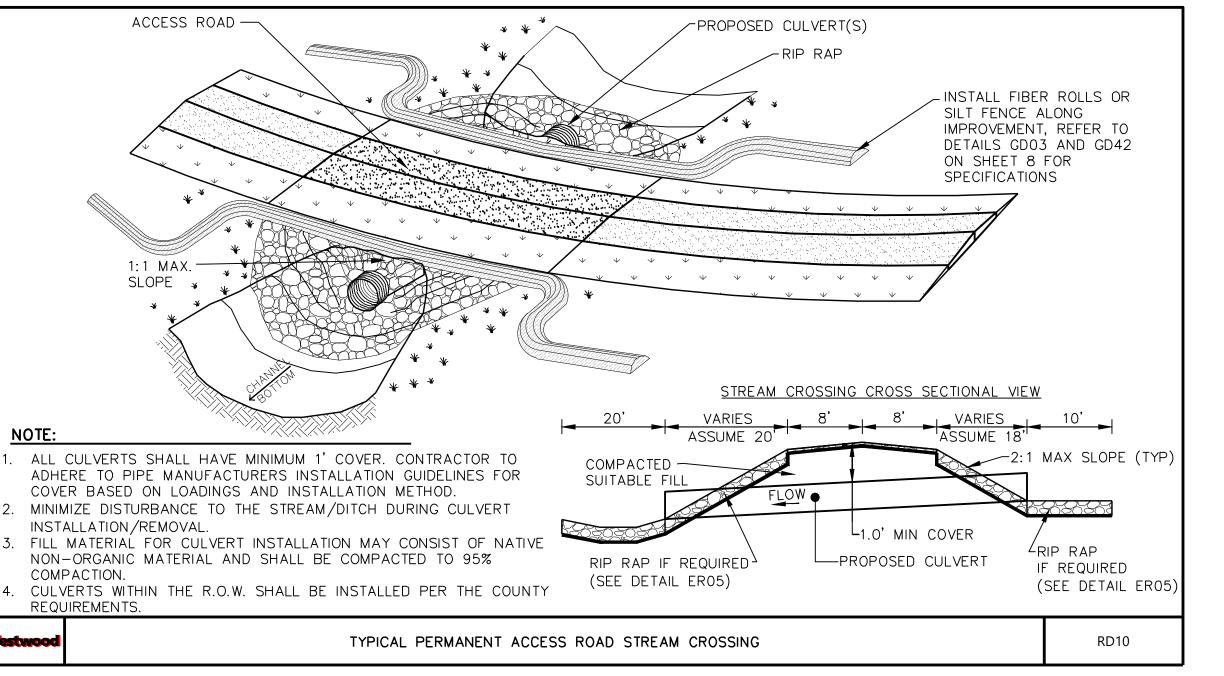












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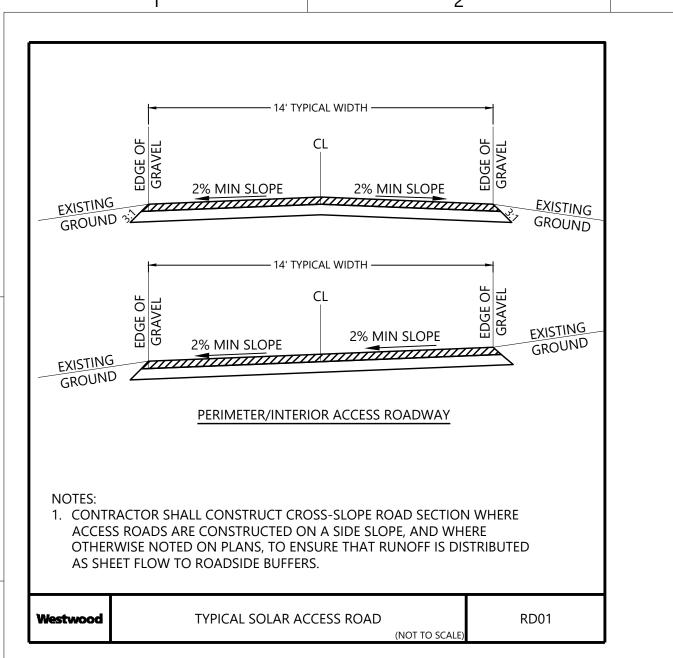
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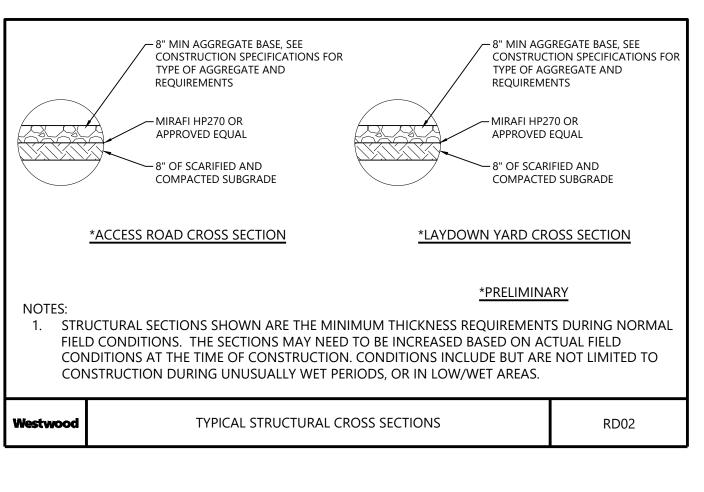
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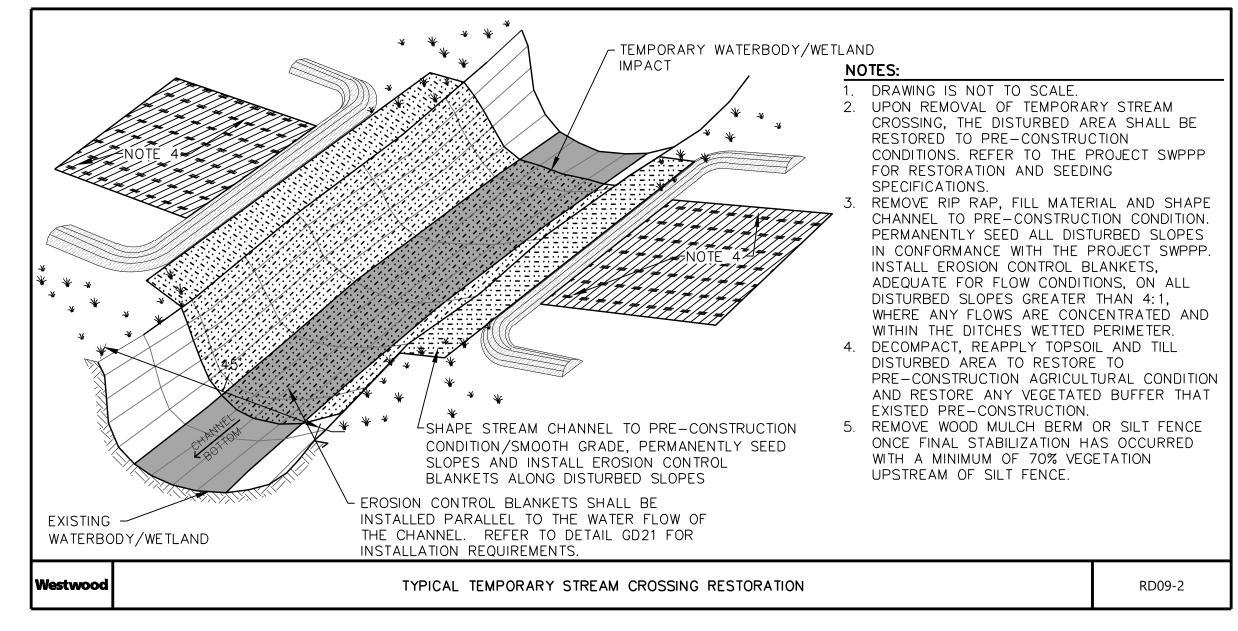
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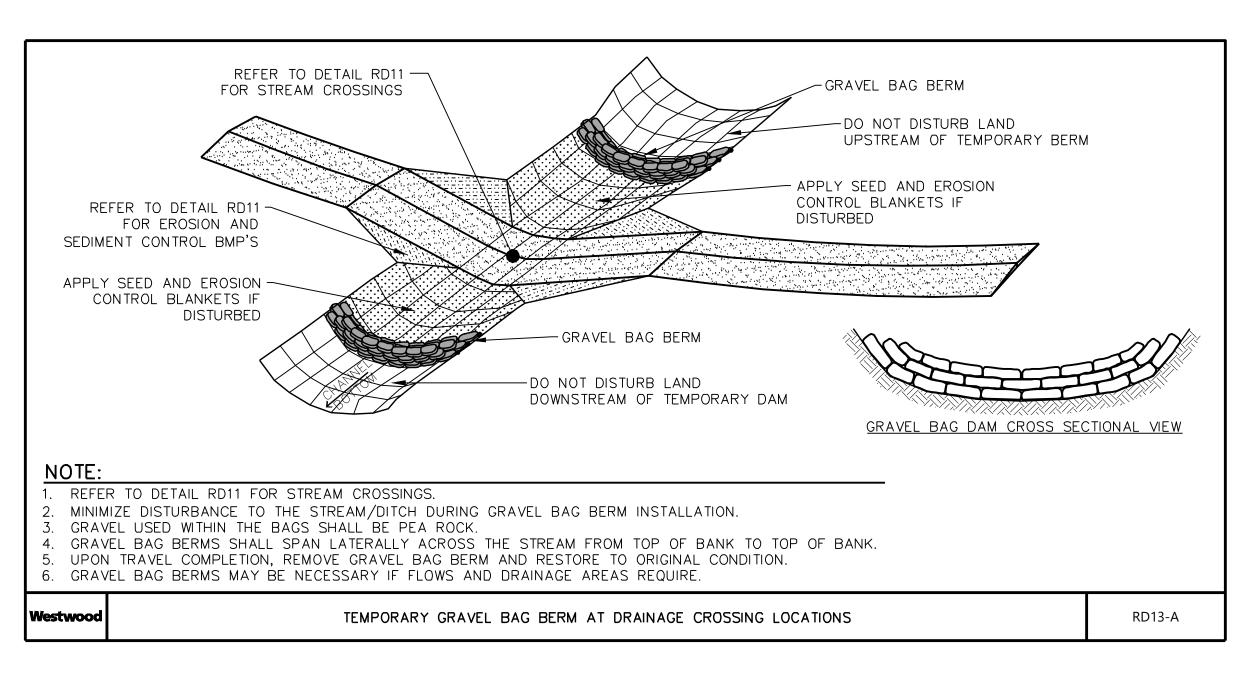
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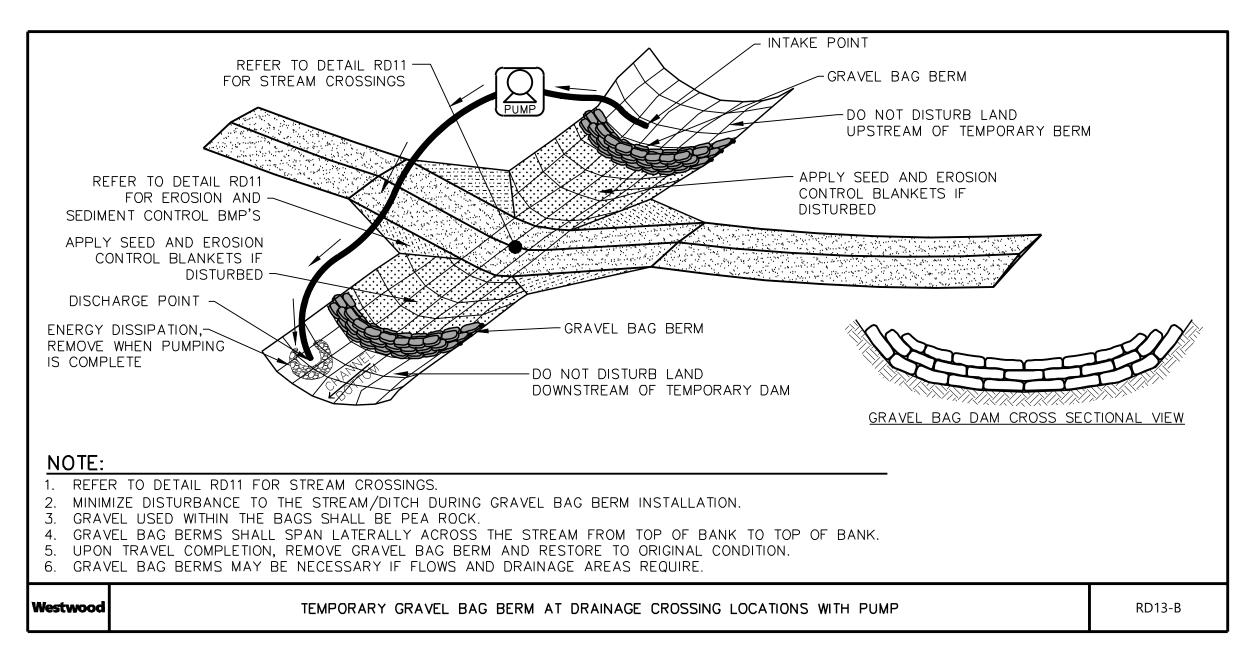
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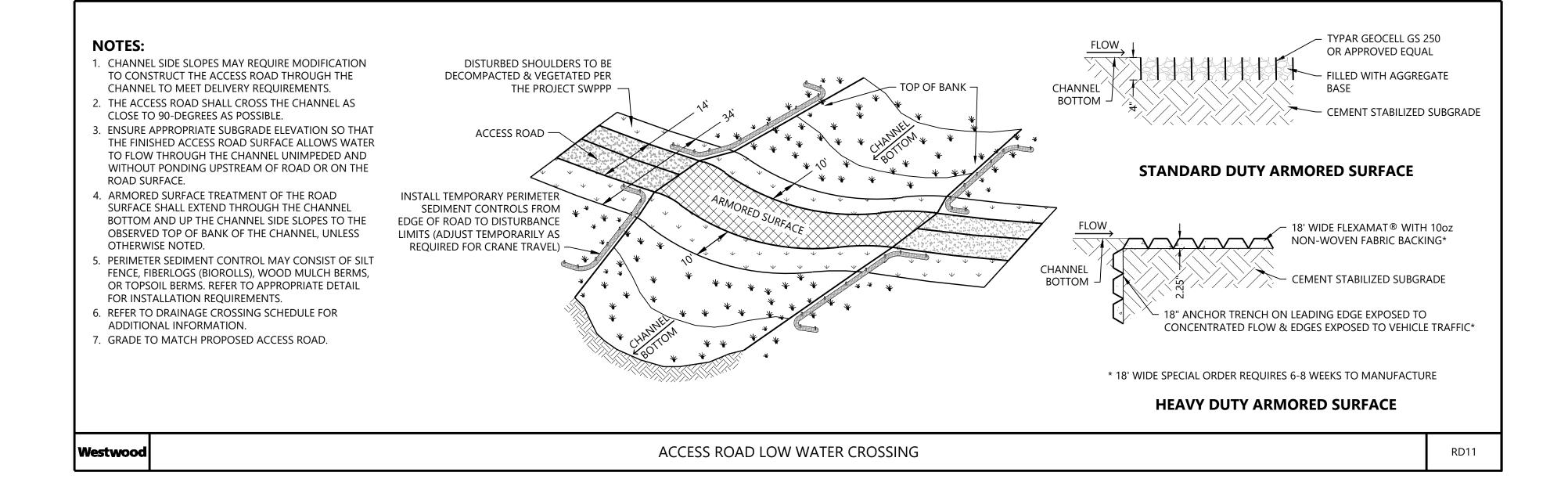
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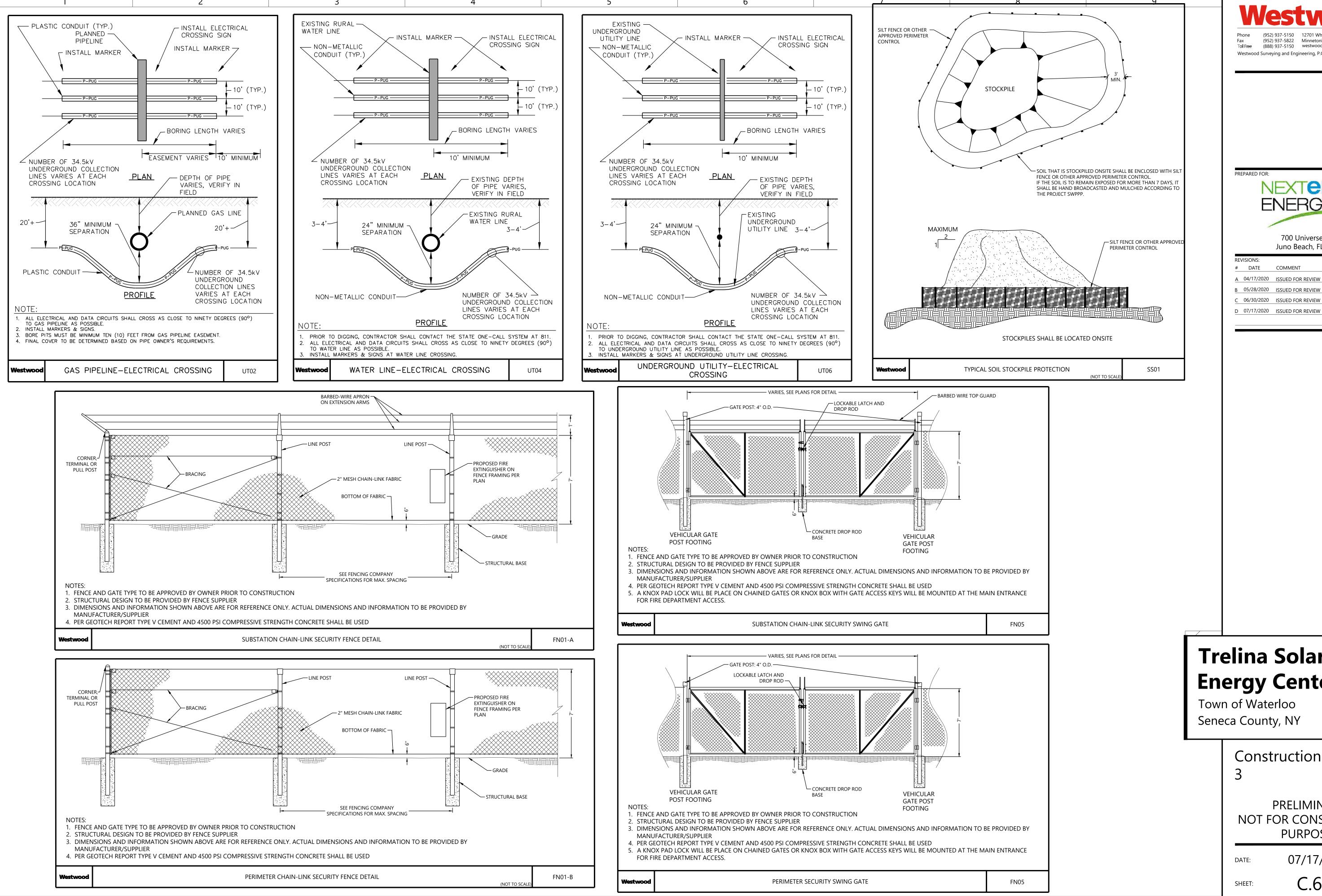
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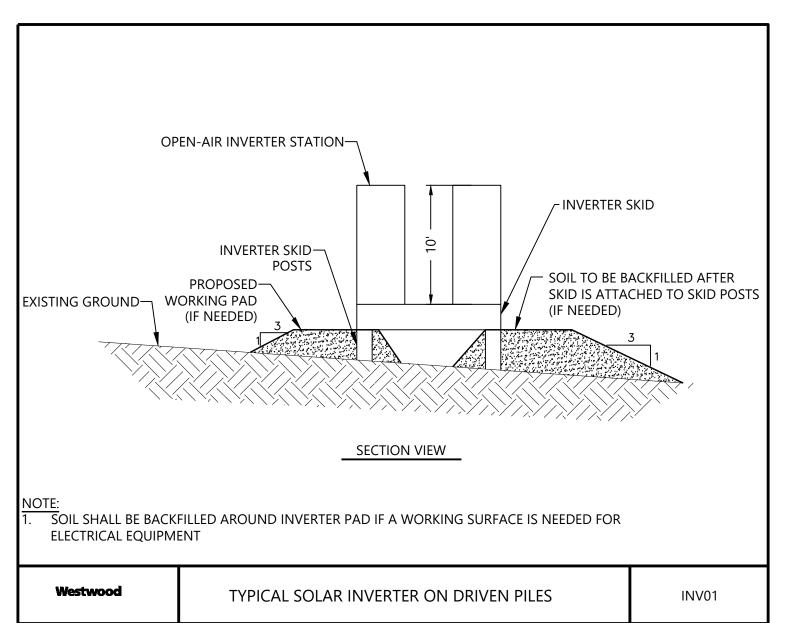
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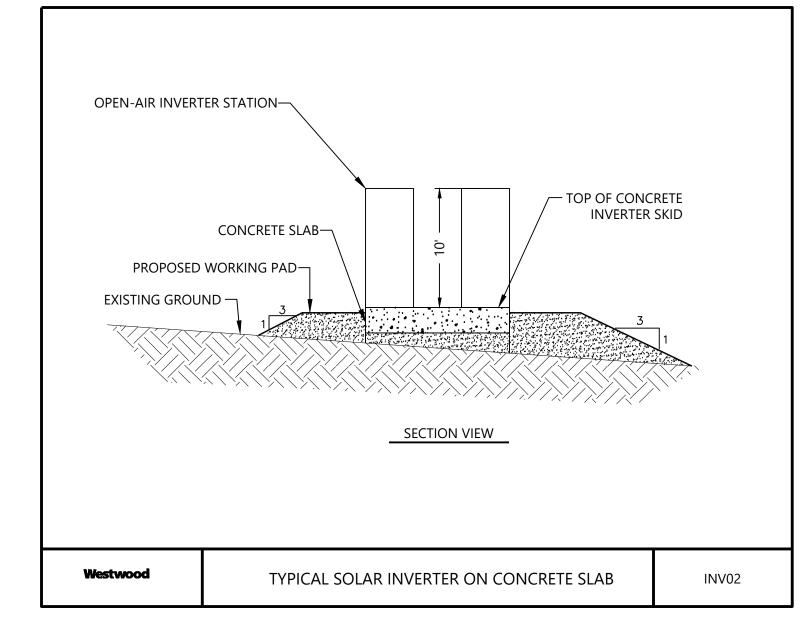
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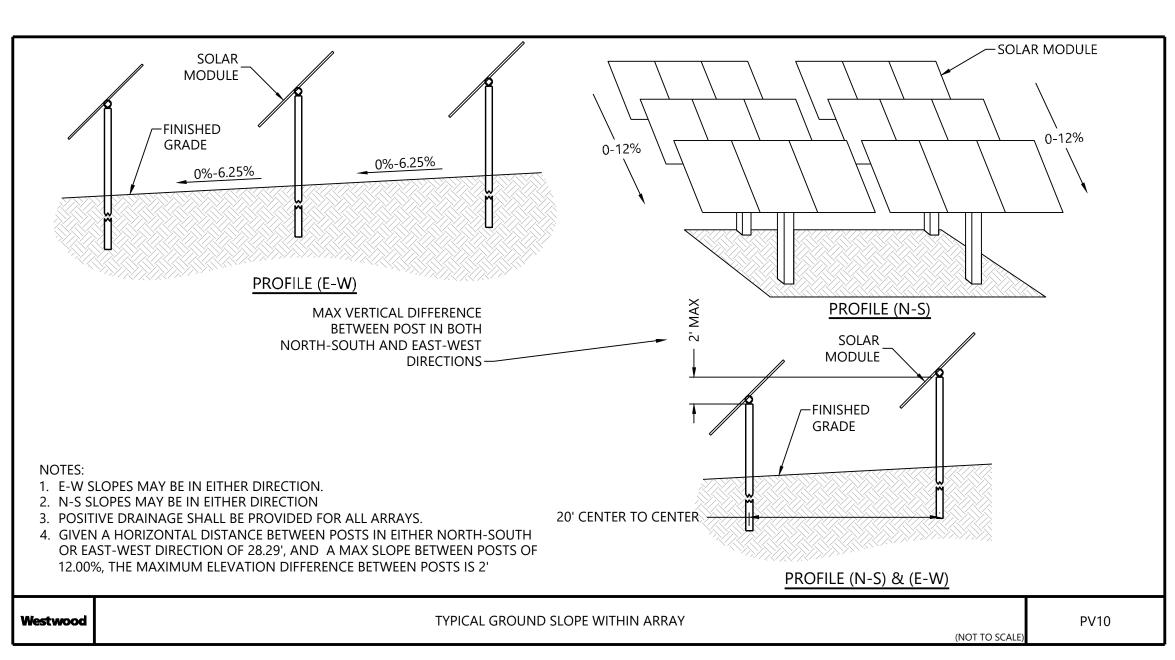
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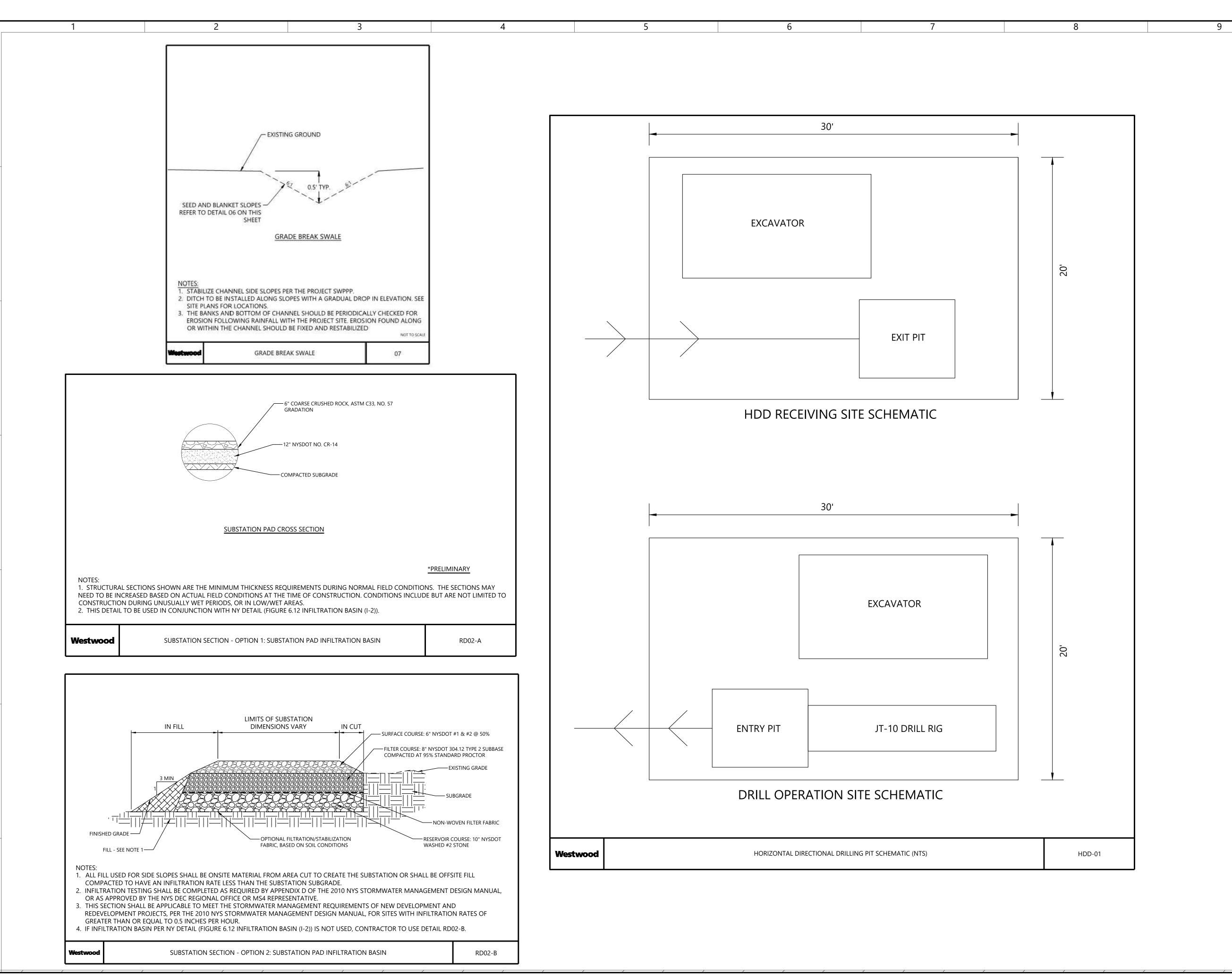
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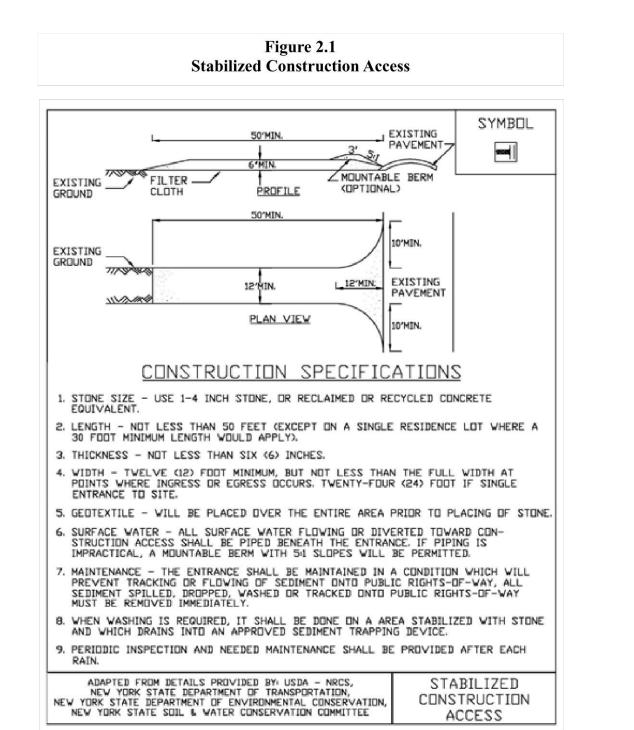
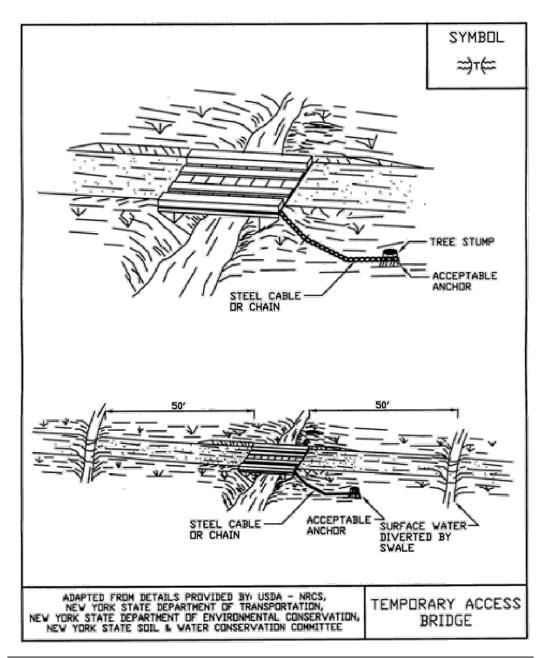
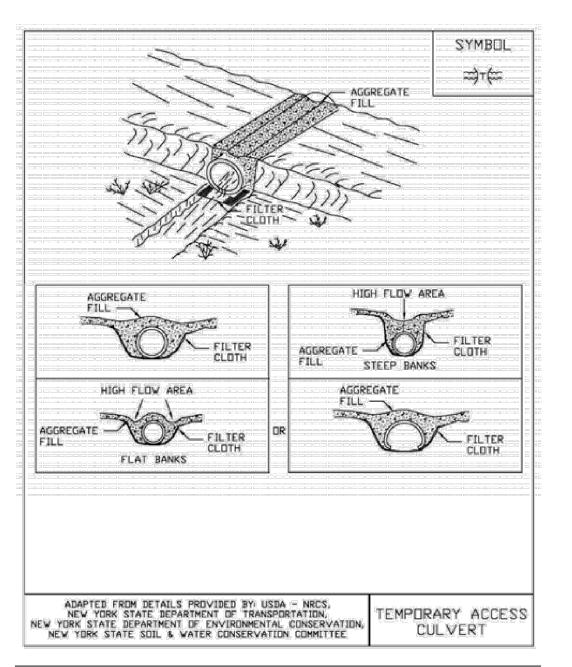


Figure 2.2 **Temporary Access Bridge**



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Figure 2.3 **Temporary Access Culvert**



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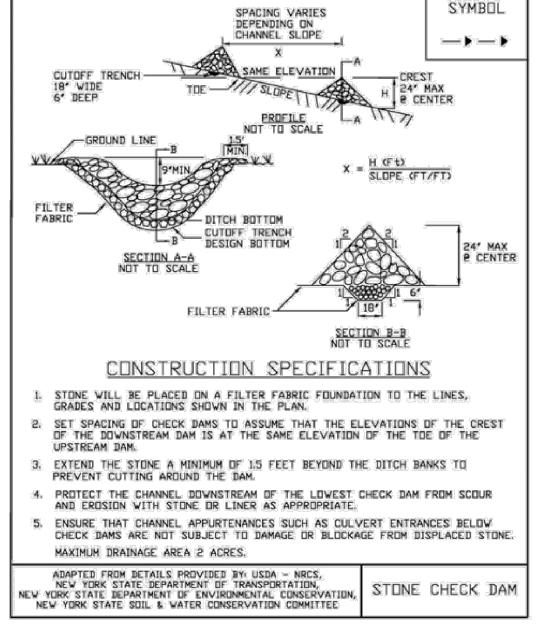
Figure 3.1

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New York State Standards and Specifications

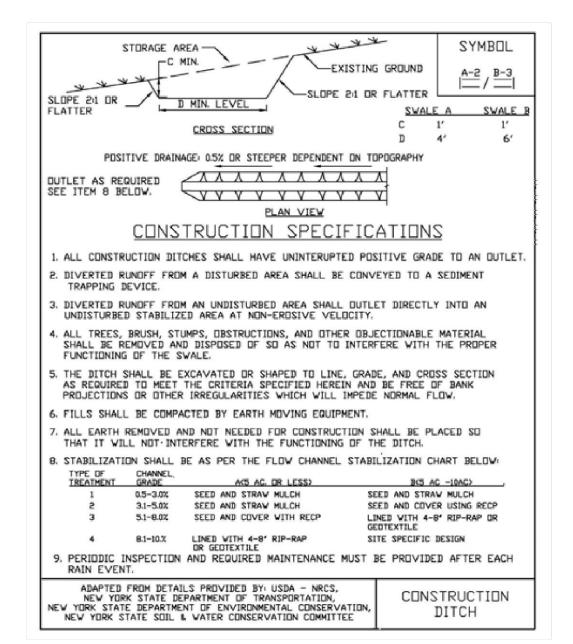
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New York State Standards and Specifications November 2016 Page 3.3

Figure 3.2 **Construction Ditch Detail**



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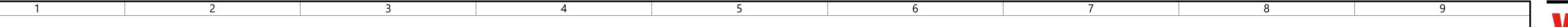
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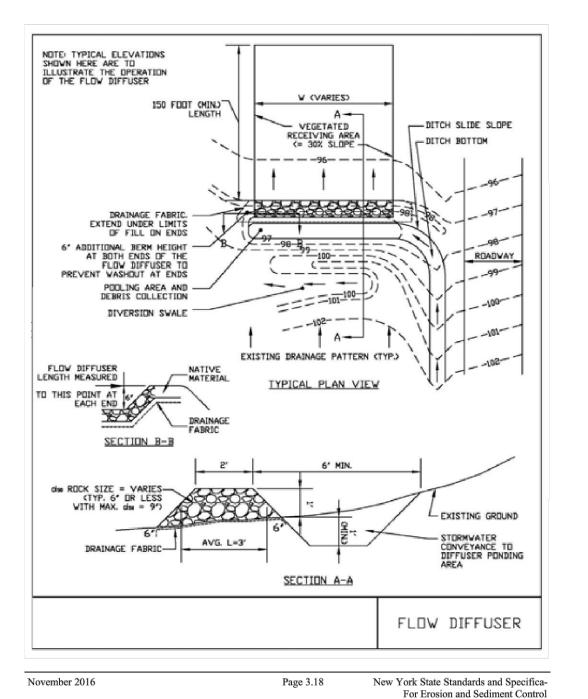
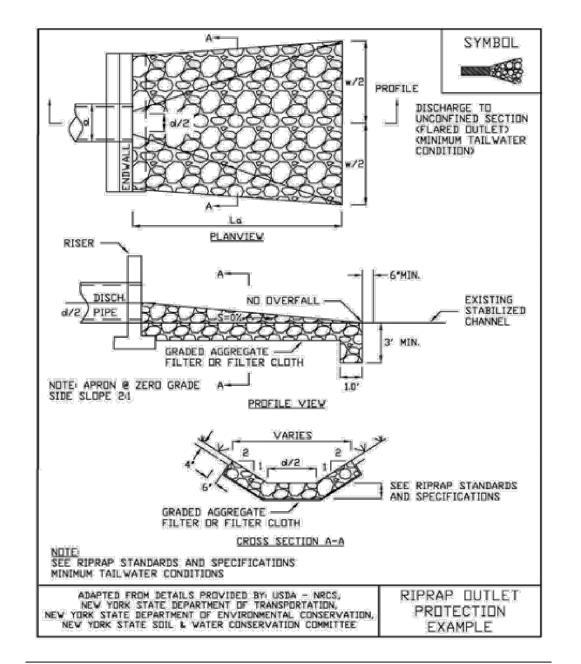
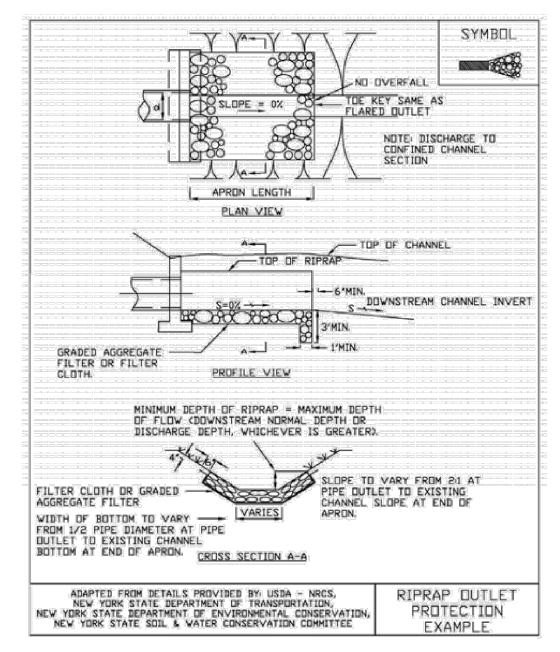


Figure 3.18 **Riprap Outlet Protection Detail (1)**



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Figure 3.19 **Riprap Outlet Protection Detail (2)**



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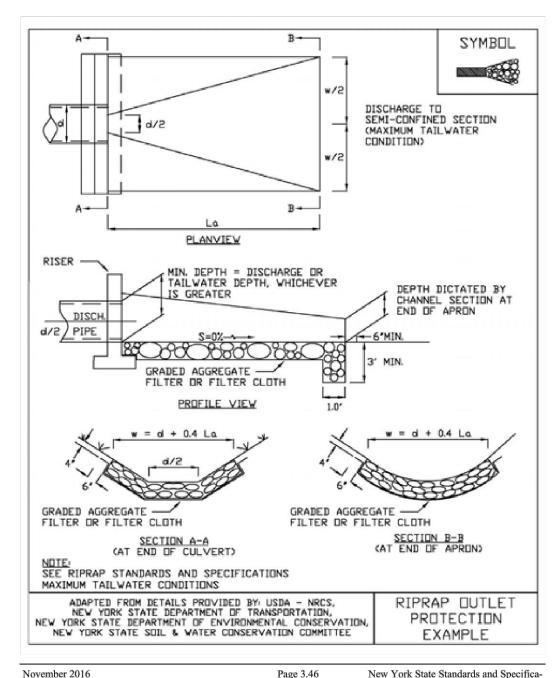
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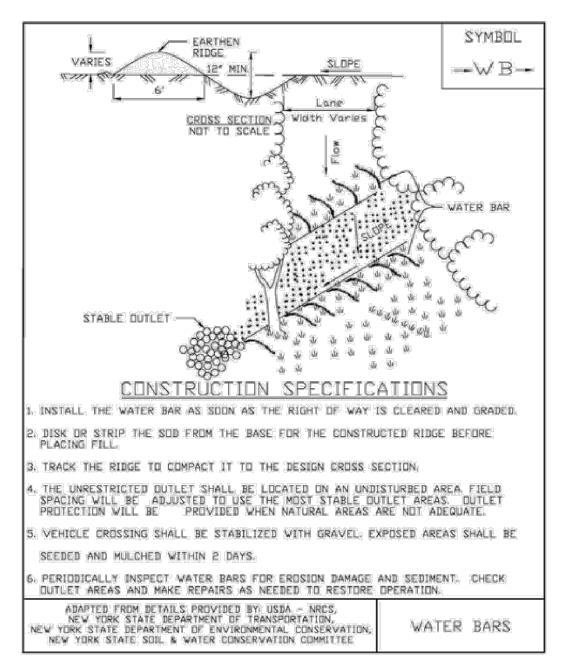
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Figure 3.20 **Riprap Outlet Protection Detail (3)**



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Figure 3.22 Water Bar Detail



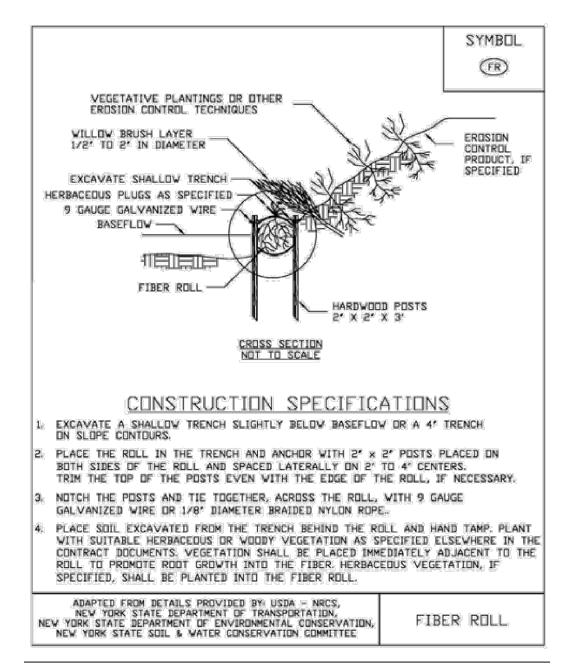
Page 3.53

November 2016

New York State Standards and Specifications

For Erosion and Sediment Control

Figure 4.8 Fiber Roll



New York State Standards and Specifications

For Erosion and Sediment Control

Page 4.23

November 2016

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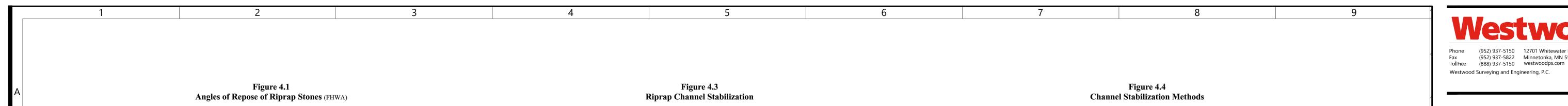
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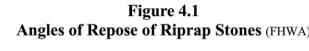
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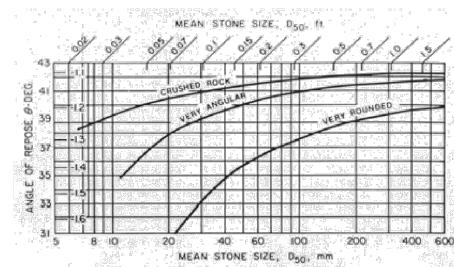
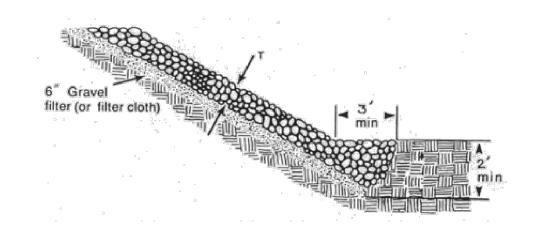
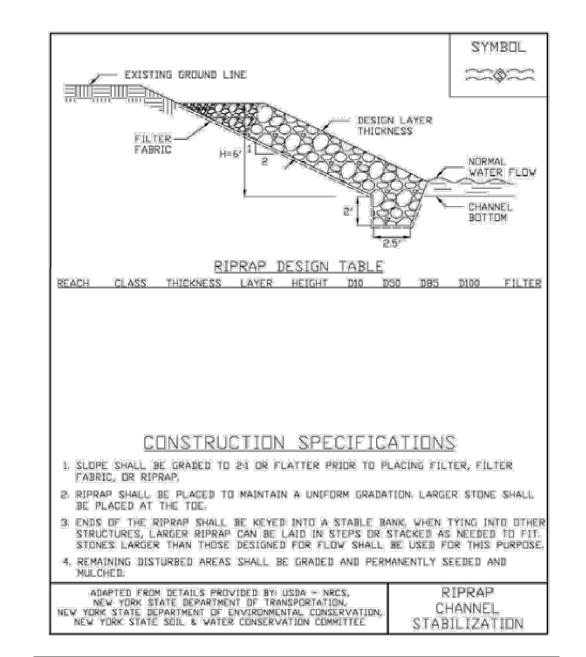


Figure 4.2 **Typical Riprap Slope Protection Detail**

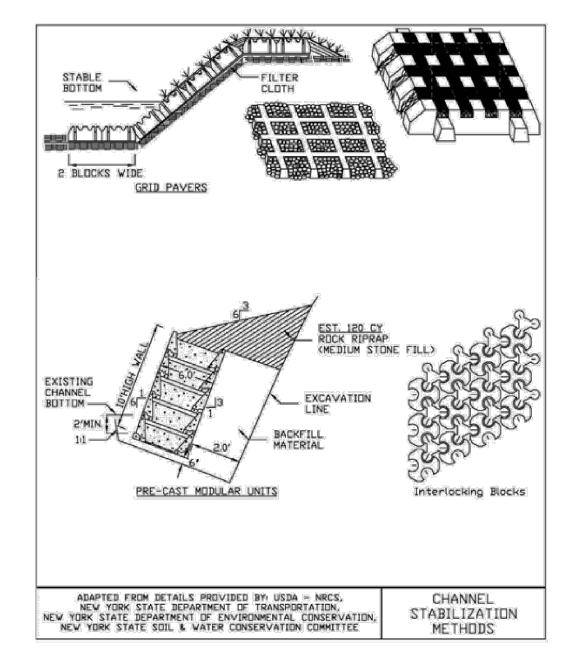


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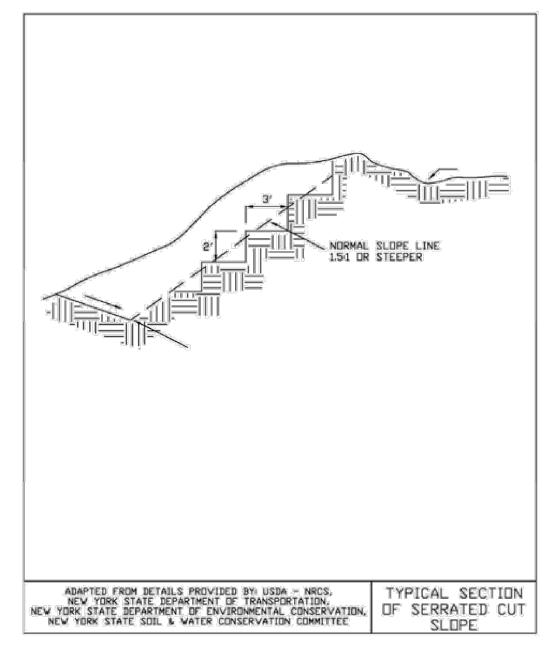
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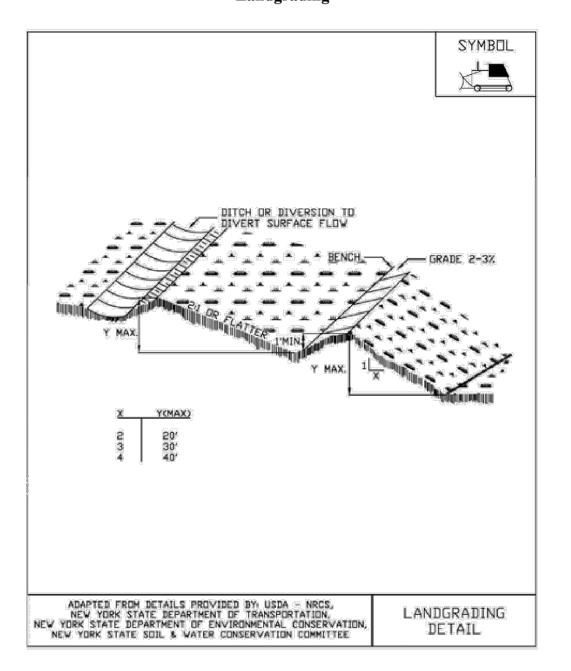
Figure 4.9 **Typical Section of Serrated Cut Slope**



New York State Standards and Specifications For Erosion and Sediment Control

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Figure 4.10 Landgrading



New York State Standards and Specifications For Erosion and Sediment Control

November 2016

Figure 4.11 **Landgrading - Construction Specifications**

CONSTRUCTION SPECIFICATIONS

- ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN UNTIL THEY ARE PERMANENTLY STABILIZED.
- 2. ALL SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN
- 3. TOPSDIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNT NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS.
- AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL.
- AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF FOUR INCHES PRIOR TO PLACEMENT OF TOPSOIL.
- 6. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS, FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- 7. ALL FILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
- 8. EXCEPT FOR APPROVED LANDFILLS, FILL MATERIAL SHALL BE FREE OF FROZEN PARTICLES, BRUSH, RODTS, SOD, OR OTHER FOREIGN OR OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF
- SATISFACTORY FILLS.
- 9. FROZEN MATERIALS OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED IN FILLS. 10. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- 11: ALL BENCHES SHALL BE KEPT FREE OF SEDIMENT DURING ALL PHASES OF DEVELOPMENT.
- 12. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD
- 13. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING 14. STOCKPILES, BORROW AREAS AND SPOIL AREAS SHALL BE SHOWN ON THE PLANS AND SHALL BE SUBJECT TO THE PROVISIONS OF THIS STANDARD AND SPECIFICATION.

LANDGRADING SPECIFICATIONS

ADAPTED FROM DETAILS PROVIDED BY USDA - NRCS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE.

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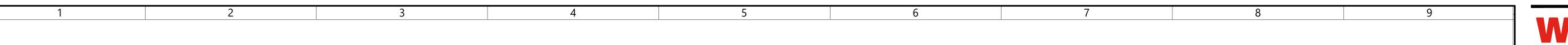
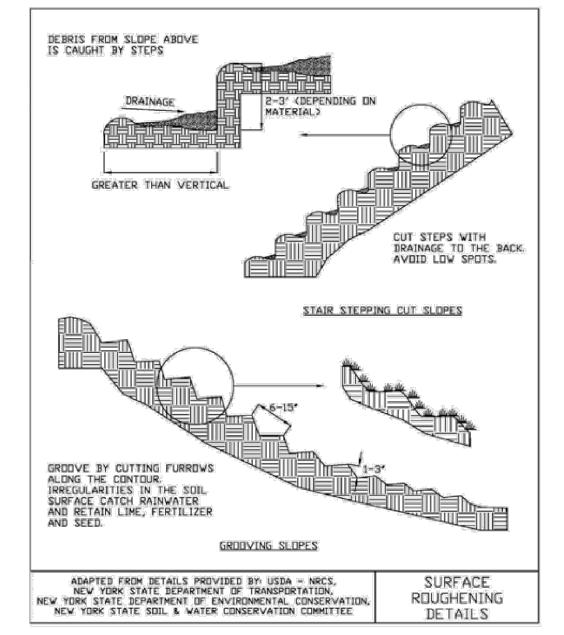


Figure 4.18 Surface Roughening

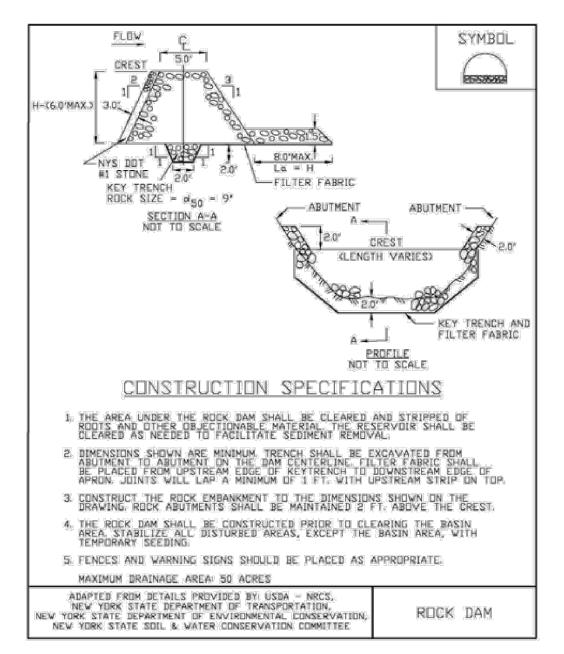


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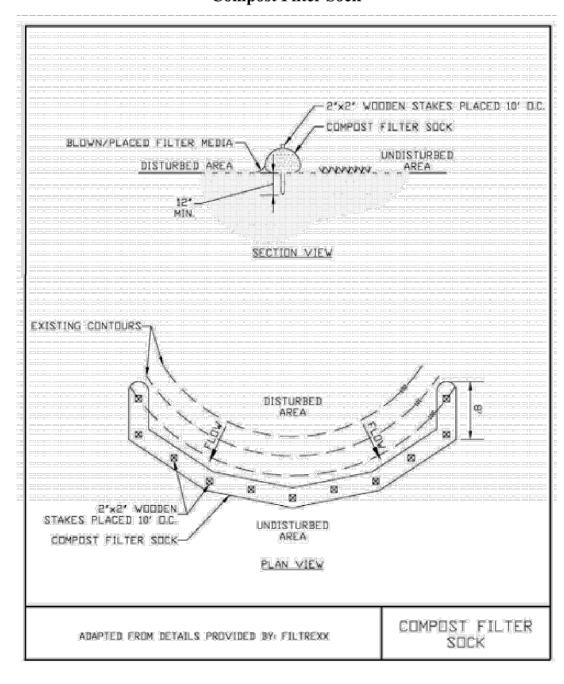
Figure 5.7 Rock Dam



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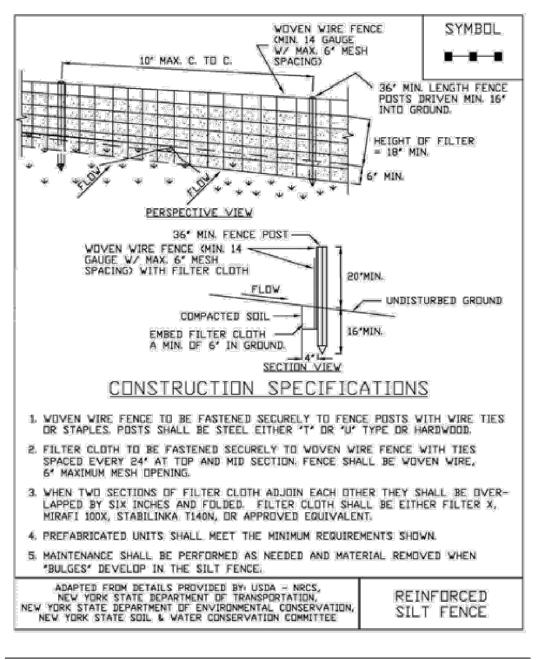
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Figure 5.2 Compost Filter Sock



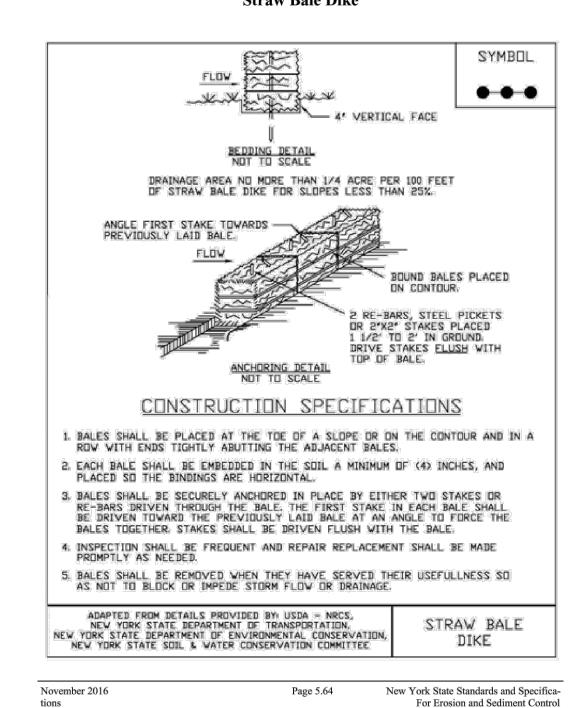
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Figure 5.30 Reinforced Silt Fence



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Figure 5.34 Straw Bale Dike



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- THE ROAD HAS BEEN DESIGNED TO ACCOMMODATE LOADS DURING CONSTRUCTION AND LIGHT DUTY TRUCKS FOR LOW VOLUME USE IN NORMAL OPERATING CONDITIONS. THE ROAD DESIGN SPECIFIED IS NOT INTENDED FOR ALL WEATHER USE FOR HEAVY DUTY, HIGH VOLUME, CONSTRUCTION LOADS.
- ROAD MAINTENANCE CAN BE EXPECTED DURING CONSTRUCTION AND OVER THE LIFE OF THE PERMANENT FACILITY. ROAD SECTION AND SPECIFICATION SHOWN ON THE PLANS WERE PREPARED BY WESTWOOD PROFESSIONAL SERVICES BASED ON GEOTECHNICAL RECOMMENDATIONS FROM TERRACON.

PRODUCTS

- ACCESS ROAD AGGREGATE SHALL CONSIST OF CRUSHED AGGREGATE BASE MEETING NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION (DATE: MAY 1, 2008) PROVIDED IN TABLE 1, OR AN APPROVED EQUAL.
- 2. CULVERTS: SEE PLAN FOR DRAINAGE CULVERT LOCATIONS. ACCESS ROAD CULVERTS SHALL MEET THE MINIMUM SPECIFICATIONS SET FORTH BY THE NEW YORK ARTICLE 10 REQUIREMENTS AND/OR SCHUYLER COUNTY. ALL CULVERTS SHALL BE HELICAL CORRUGATED 12 GAUGE OR APPROVED EQUAL AND MANUFACTURED OF CORRUGATED METAL PIPE.
- GEOTEXTILE FABRIC SHALL BE MIRAFI HP270 OR APPROVED EQUAL. 4. EXCAVATED SOILS THROUGHOUT PROJECT SHALL BE UTILIZED AS FILL. SOILS SHALL BE CLEAN OF DEBRIS AND ORGANIC MATERIAL.

EXECUTION

SITE PREPARATION

- A. THE CONTRACTOR SHALL BE REQUIRED TO CLEAR AND GRUB AREAS DESIGNATED ON THE PLANS. FOR TREE REMOVAL REFER TO THE TREE CLEARING GENERAL NOTES AND PLANS. TREES AND BRUSH LOCATED OUTSIDE OF THE PROJECT LIMITS OF DISTURBANCE SHALL NOT BE DISTURBED. THE CONTRACTOR MUST LIMIT GRUBBING AND GRADING AS MUCH AS PRACTICABLE TO MAINTAIN THE EXISTING VEGETATION AND NATURAL GRADE IN ACCORDANCE WITH THE STATE PERMIT.
- B. AREAS THAT ARE NOT TO BE CLEARED AND GRUBBED SHALL HAVE ANY EXISTING VEGETATION MOWED TO A MINIMUM HEIGHT OF 3 INCHES.
- C. THE CONTRACTOR SHALL PRESERVE OTHER EXISTING VEGETATION TO THE MAXIMUM EXTENT PRACTICABLE. ANY VEGETATION THAT IS REMOVED SHALL ONLY BE ALLOWED WITHIN THE PROJECT BOUNDARY. THE CONTRACTOR IS TO REMOVE ONLY THAT VEGETATION WHICH SHALL BE DESIGNATED BY THE OWNERS REPRESENTATIVE FOR REMOVAL, AND SHALL EXERCISE EXTREME CARE AROUND EXISTING VEGETATION TO BE SAVED. CONSTRUCTION FENCING MAY BE INSTALLED TO PROTECT AREAS THAT ARE NOT TO BE DISTURBED. D. NO BURNING OF DEBRIS IS PERMITTED.
- 2. FILL MATERIALS AND PLACEMENT A. ALL FILL MATERIALS SHALL BE INORGANIC SOILS FREE OF VEGETATION, DEBRIS, AND FRAGMENTS LARGER THAN THREE (3) INCHES IN SIZE. PEA GRAVEL OR OTHER SIMILAR NON-CEMENTITIOUS, POORLY-GRADED MATERIALS
- SHALL NOT BE USED AS FILL OR BACKFILL WITHOUT THE PRIOR APPROVAL OF THE GEOTECHNICAL ENGINEER. B. CLEAN ON-SITE SOILS OR APPROVED IMPORTED MATERIAL MAY BE USED AS FILL MATERIAL FOR GENERAL SITE GRADING. THIS MATERIAL SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED 8"
- C. ANY IMPORTED SOILS MUST HAVE EXPANSION VALUES IN THE "VERY LOW" RANGE AND MEET THE GRADATION PROVIDED IN TABLE 4.

ACCESS ROAD CONSTRUCTION AND SITE GRADING

1. TOPSOIL MANAGEMENT

- A. TOPSOIL SHALL BE STRIPPED FROM ALL ROADWAY AREAS A MINIMUM OF 10". TOPSOIL SHALL NOT BE STRIPPED OUTSIDE OF THESE DESIGNATED AREAS.
- B. STRIPPED MATERIALS CONSISTING OF VEGETATION AND ORGANIC MATERIALS SHALL BE STOCKPILED ON THE SITE. STOCKPILES WITHIN THE SITE SHALL HAVE TEMPORARY EROSION AND SEDIMENT CONTROL APPLIED IN ACCORDANCE WITH THE PROJECT SWPPP OR USED TO REVEGETATE LANDSCAPED AREAS OR EXPOSED SLOPES AFTER COMPLETION OF GRADING OPERATIONS. IF IT IS NECESSARY TO DISPOSE OF ORGANIC MATERIALS ON-SITE THEY SHALL BE PLACED IN NON-STRUCTURAL AREAS.
- 2. INTERNAL ROAD EMBANKMENT
- A. EMBANKMENT CONSTRUCTION SHALL CONSIST OF THE PLACING OF SUITABLE FILL MATERIAL, AFTER TOPSOIL STRIPPING, ABOVE THE EXISTING GRADE AS INDICATED ON CIVIL PLANS. GENERALLY, THE INTERNAL ROAD EMBANKMENT SHALL HAVE COMPACTED SUPPORT SLOPES OF THREE FEET HORIZONTAL TO ONE FOOT VERTICAL
- B. THE MATERIAL FOR EMBANKMENT CONSTRUCTION SHALL BE GENERATED ON SITE BY THE CONTRACTOR FROM THE IDENTIFIED BORROW AREA. THIS MATERIAL SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED 8".
- C. ALL SLOPES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GRADING SHOWN ON THE PLANS. D. EXPOSED SURFACES SHALL BE FREE OF MOUNDS AND DEPRESSIONS WHICH COULD PREVENT UNIFORM
- COMPACTION. SEE TABLE 2 FOR TESTING REQUIREMENTS AND TABLE 3 FOR COMPACTION REQUIREMENTS. 3. SITE GRADING
- A. SUBSEQUENT TO THE SURFACE CLEARING, GRUBBING AND TOPSOIL REMOVAL IN AREAS SHOWN WITH PLANS, THE SUBSURFACE SOILS SHALL HAVE THE GRADES AND ELEVATIONS MODIFIED AS SHOWN ON THE PLANS. THE PROPOSED CONTOURS AND ELEVATIONS SHOWN ON THE PLANS ARE TO FINISHED WITH B. SMALL SURFACE IRREGULARITIES WILL NEED TO BE BLADED SMOOTH FOR TAKE INSTALL WON. SITE GRADING
- SHOWN ON PLAN SHEETS IS FOR LARGE TOPOGRAPHIC FEATURES AND MANNOT FULLY ENCOMPASS ALL UNDULATIONS OF THE GROUND SURFACE. THE CONTRACTOR WILLST LIMIT OF UBBING AND TRADING AS WILL AS PRACTICABLE TO MAINTAIN THE EXISTING VEGETATION AND NATURAL GRADAWN ACCORDANCE WITH THE STAVE C. SUBSURFACE SOILS SHALL BE MOISTURE CONDITIONS OF AND COMPACTED TO WHA SPECIALIZATIONS OF TABLE 3
- D. ANY CUT MATERIAL THAT CANNOT BE USED FOR STRUCTURAL BACKFILL THROUGHOUT THE PROJECT SHALL BE USED IN FILL AREAS IDENTIFIED ON THE PLANS. THE FILL AREA SHALL HAVE TOPSOM REMOVED AND MANAGED AS IDENTIFIED ABOVE IN "TOPSOIL MANAGEMENT".
- E. CLEAN, ORGANIC FREE, ON-SITE SOILS OR APPROVED WATERIAL MAY BE USED AS SUBGRADE MATERIAL FOR GENERAL SITE GRADING.

3. SUBGRADE PREPARATION

- A. SUBSEQUENT TO THE SURFACE CLEARING, GRUBBING, TORSONL REMOVAL AND EMBANKMENT CONSTRUCTION THE EXPOSED SUBGRADE SOILS SHALL BE SCARIFIED TO ANNUAL OF TWELVE (12) INCHES, MOISTURE CONDITIONED AND COMPACTED TO THE SPECIFICATIONS OF TABLE 3. THE COMPACTED EXPOSED SUBGRADES SHALL BE PROOF ROLLED AND OBSERVED BY A GEOTECHNICAL ENGINEER TO DETERMINE IF SOFT SOILS EXIST. IF SOFT SOILS EXIST THEY SHALL BE SCARIFIED AND ALLOWED TO DRY, RECOMPACTED AND TESTED AGAIN, IF THEY CONTINUE TO REMAIN SOFT, FOLLOWING SCARIFICATION, DRYING AND RECOMPACTION EFFORTS ADDITIONAL AGGREGATE MAY BE ADDED FOR STABILITY.
- B. ROAD SUBGRADE AND COMPACTION SHALL EXTEND HORIZONTALLY AT LEAST TWO FEET BEYOND THE OUTSIDE
- EDGE OF THE DRIVABLE SURFACE. C. THE MOISTURE CONTENT AND COMPACTION OF ROAD SUBGRADE SOILS SHALL BE MAINTAINED UNTIL PAVEMENT
- D. CLEAN, ORGANIC FREE, ON-SITE SOILS OR APPROVED IMPORTED MATERIAL MAY BE USED AS SUBGRADE MATERIAL FOR GENERAL SITE GRADING AND ROADWAY AREAS.

4. AGGREGATE PLACEMENT

A. ACCESS ROADS - SUBSEQUENT TO THE SUBGRADE PREPARATION THE ROAD AGGREGATE BASE SHALL BE PLACED AND COMPACTED TO THE SPECIFICATIONS IDENTIFIED IN TABLE 3

5. TOPSOIL REDISTRIBUTION AND STABILIZATION

- A. FOLLOWING THE PLACEMENT OF THE AGGREGATE BASE AND APPROVAL OF THE TESTING, TOPSOIL SHALL BE DISTRIBUTED OVER THE EXPOSED DISTURBED AREAS, EXCLUDING THE AGGREGATE DRIVING SURFACE.
- B. FOLLOWING SITE GRADING OPERATIONS, TOPSOIL CAN BE USED TO BRING THE GROUND ELEVATIONS UP TO THE DESIGNED FINISHED GRADE ELEVATIONS.
- C. THE TOPSOIL SHALL HAVE TEMPORARY AND PERMANENT STABILIZATION MEASURES ESTABLISHED IN ACCORDANCE WITH THE PROJECT SWPPP.

TEMPORARY LAYDOWN/STORAGE YARD

1. PREPARATION

- A. THE LAYDOWN/STORAGE YARD SHALL CONSIST OF COMPACTED NATIVE MATERIAL OVERLAID WITH A GEOTEXTILE FABRIC AND AGGREGATE MATERIAL
- B. THE COMPACTED NATIVE MATERIAL SHALL BE MOISTURE CONDITIONED AND COMPACTED TO THE SPECIFICATIONS OF TABLE 3 (NON-STRUCTURAL AREA).
- C. GEOTEXTILE FABRIC SHALL BE PLACED ON TOP OF COMPACTED NATIVE MATERIAL AND THEN AGGREGATE PLACED AND COMPACTED.
- D. FOLLOWING CONSTRUCTION AND REMOVAL OF PROJECT INVENTORY THE COMPACTED NATIVE MATERIAL SHALL BE DECOMPACTED AND PERMANENTLY STABLIZED IN ACCORDANCE WITH THE PROJECT SWPPP SPECIFICATIONS.

EXECUTION (CONTINUED)

ELECTRICAL TRENCHES

- TRENCH'S SHALL BE EXCAVATED TO THE DEPTH IDENTIFIED IN THE ELECTRICAL DRAWINGS/DETAILS.
- TRENCH BACKFILL SHALL CONSIST OF APPROVED, ONSITE OR IMPORT SOILS. SOILS SHALL BE FREE OF VEGETATION, DEBRIS, AND FRAGMENTS LARGER THAN 3 INCHES.
- 3. INITIAL BACKFILL LIFT SHALL BE 18" LOOSE THICKNESS, ADDITIONAL BACKFILL LIFTS SHALL NOT EXCEED 8 INCHES OF LOOSE MATERIAL. IF TESTING OF THE INITIAL LIFT DOES NOT PROVIDE THE REQUIRED DENSITY THE INITIAL BACKFILL LIFT WILL BE REDUCED TO A 8" LOOSE THICKNESS.
- 4. BACKFILL SHALL BE COMPACTED TO THE SPECIFICATIONS INDENTIFIED IN TABLE 3.
- 5. TRENCH BACKFILL SHALL BE MECHANICALLY COMPACTED.

*TABLE 1: NYSDOT TYPE 2 SUBBASE COARSE AGGREGATE SIEVE SIZE PERCENT PASSING 2" 100 1/4" 25-60 #40 5-40 #200 0-10

*PRELIMINARY: SUBJECT TO CHANGE WITH GEOTECH

*TABLE 2: TESTING SCHEDULE SUMMARY				
LOCATION	TEST	FREQUENCY		
STRUCTURAL FILL	GRAIN SIZE ANALYSIS, MOISTURE CONTENT, ATTERBERG LIMITS ON FINES CONTENT, AND PROCTOR	1 PER MAJOR SOIL TYPE		
COMPACTED SUBGRADE	MOISTURE DENSITY TEST (NUCLEAR DENSITY)	1 EVERY 1,320 LF OF ROAD		
	PROOF ROLL	ENTIRE LENGTH		
AGGREGATE BASE	MOISTURE DENSITY TEST (NUCLEAR DENSITY)	1 EVERY 1,320 LF OF ROAD		
	PROOF ROLL	ENTIRE LENGTH		
	SIEVE ANALYSIS	1 PER 2000 CY		
MISCELLANEOUS FILL	MOISTURE DENSITY TEST (NUCLEAR DENSITY)	1 PER 2 FOOT VERTICAL LIFTS AND/OR 50 CY. OF MATERIAL		
TRENCH BACKFILL	MOISTURE DENSITY TEST (NUCLEAR DENSITY)	SEE REQUIREMENTS ON THIS SHEET		

*PRELIMINARY: SUBJECT TO CHANGE WITH GEOTECH

*TABLE 3: COMPACTION AND TURE COMMENT REQUIREMENTS

		X11V 11111111 X 111111111	11111	Allin
	MATERIAL TYPE AND LOCATION	MINIMUM COMPACTION REQUIREMENT (%)	FOR COMPAC	TURE CONTENTS TION (% OVER MUM)
m			MIMIMUM	MAXIMUM
	AGGREGATE BASE		-3%	+3%
	STRUCTURAL FILL	95	-3%	+3%
	SUBGRADE (BENEATH SQUIPMENT PALS, NATIVE MATERIAL)	95	-3%	+3%
	SUBGRADE (BI. NEATH FOUR PMENT PADS, MPORTED NC.) - EXPANSIVE SOILS)	95	-3%	+3%
	THENCH BACKFILL (NON-STRUCTURAL AREAS)	90	-3%	+3%
	WENCH BACKFILL (STRUCTURAL AREAS)	95	-3%	+3%
	NON-STRUCTURAL FILL	90	-3%	+3%

*PRELIMINARY: SUBJECT TO CHANGE WITH GEOTECH

*TABLE 4: IMPORTED STRUCTURAL FILI SIEVE SIZE PERCENT PASSING 100 #200 10-100

*PRELIMINARY: SUBJECT TO CHANGE WITH GEOTECH **IMPORTED STRUCTURAL FILL SHOULD CONTAIN NO PARTICLES LARGER THAN 3 INCHES AND LESS THAN 10 PERCENT, BY WEIGHT, OF MATERIAL FINER THAN A NO. 200 MESH SIEVE. ***THE IMPORTED MATERIALS SHALL BE FREE OF RECYCLED CONCRETE, ASPHALT, BRICKS, GLASS AND PYRITIC SHALE ROCK. ****ADDITIONAL LABORATORY TESTING WILL BE REQUIRED TO DETERMINE IF THE ON-SITE SOILS ARE SUITABLE FOR USE AS STRUCTURAL FILL ON SITE, HOWEVER IT IS NOT EXPECTED TO MEET THE CRITERIA FOR STRUCTURAL FILL.

TESTING REQUIREMENTS:

DEFINITIONS

- 1. THE CONTRACTOR SHALL SUBMIT MATERIAL TESTING REPORTS AS SHOWN ON THE DRAWINGS AS WELL AS
- GEOTEXTILE MATERIAL TO BE USED DURING CONSTRUCTION.
- TESTING SHALL BE PERFORMED BY A DESIGNATED INDEPENDENT TESTING AGENCY. SUBMIT TESTING AND INSPECTION RECORDS SPECIFIED TO THE CIVIL ENGINEER OF RECORD FOR REVIEW.
- A. THE ENGINEER WILL REVIEW THE TESTING AND INSPECTION RECORDS TO CHECK CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS. THE ENGINEER'S REVIEW DOES NOT RELIEVE THE CONSTRUCTION CONTRACTOR FROM THE RESPONSIBILITY FOR CORRECTING DEFECTIVE WORK.
- PROOF ROLLING SHALL BE PERFORMED IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER OR QUALIFIED GEOTECHNICAL REPRESENTATIVE USING A FULLY LOADED TANDEM AXLE DUMP TRUCK WITH A MINIMUM GROSS WEIGHT OF 25 TONS OR A FULLY LOADED WATER TRUCK WITH AN EQUIVALENT AXLE LOADING. PROOF-ROLLING ACCEPTANCE STANDARDS INCLUDE NO RUTTING GREATER THAN 1.5 INCHES, AND NO "PUMPING" OF THE SOIL BEHIND THE LOADED TRUCK.
- SIEVE ANALYSIS SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM C136
- PROCTORS SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D698 ATTERBERG LIMITS SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D4318
- MOISTURE DENSITY (NUCLEAR DENSITY) TESTING SHALL BE DONE IN ACCORDANCE WITH ASTM D6938

REQUIREMENTS

- COMPACTION: A. REFER TO TABLE 3 FOR COMPACTION REQUIREMENTS AND ACCEPTABLE MOISTURE CONTENTS.
- 2. IMPORT FILL MATERIAL:
- A. IMPORT SOILS USED AS FILL MATERIAL SHALL BE TESTED FOR GRAIN SIZE ANALYSIS, MOISTURE CONTENT, ATTERBERG LIMITS ON FINES CONTENT, PROCTOR TESTS, R-VALUES, SAND EQUIVALENTS, DURABILITY INDEX,
- LIQUID LIMIT, PLASTICITY INDEX, AND MAXIMUM EXPANSION INDEX.
- COMPACTED SUBGRADE: A. PROVIDE 1 MOISTURE DENSITY COMPACTION TEST FOR EVERY 1,320 L.F. OF ROAD LENGTH
- B. THE ENTIRE INTERNAL/ACCESS ROAD SUBGRADE SHALL BE PROOF-ROLLED PRIOR TO THE PLACEMENT OF THE AGGREGATE BASE TO IDENTIFY AREAS OF UNSTABLE SUBGRADE. IF UNSTABLE SUBGRADE IS ENCOUNTERED SCARIFY, MOISTURE CONDITION, AND RECOMPACT SOILS TO ACHIEVE COMPACTION.
- 4. AGGREGATE BASE:
- A. PROVIDE 1 MOISTURE DENSITY COMPACTION TESTIFOR EVERY 1,320 L.F. OF ROAD LENGTH.
- B. AGGREGATE BASE SHALL BE PROOF-ROLLED OVER THE ENTIRE LENGTH. IF PROOF ROLLING DETERMINES THAT THE ROAD IS UNSTABLE, ADDITIONAL AGGREGATE SWALL BE ADDED UNTIL THE UNSTABLE SECTION IS ABLE TO PASS A PROOF ROLL FOR ALL ROAD WAS SECATIONS.
- PROVIDE 1 SIEVE ANALYSIS PER 2000 OF ROAD AGGREGATE BASE PLACED.
- A. PROVIDE MOISTURE DENSITY COMPACTION IN TS ONCE PER 2 FOOT VERTICAL LIFTS AND/OR 500 C.Y. OF
- COMMENACTED FILL MANTERIAL.
- 6. TRENCH BACKFILL: A. PROVIDE MOISTURE DENSITY COMPACTION TESTS EVERY 50LF OF TRENCH FOR THE FIRST 200LF TRENCHING ACTIVITIES TO CONFIRM METHODOLOGY. AFTER APPROVAL TESTING CAN BE INCREASED TO EVERY 500LF. ALTERNATE PEST CEPTHS OF 18" AND AT GRADE

TRAFFIC CONTROL

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS MARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGGERS AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC MICRE NECESSARY. PLACEMENT OF THESE DEVICES SHALL BE APPROVED BY THE CITY/COUNTY AND ENGINEER PRIOR TO MAKEMENT. TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST VERSION OF THE MANUAL OF UNIFORM PRAFFIC CONTROL DEVICES (MUTCD).

GENERAL NOTES:

- CONSTRUCTION PLANS ARE BASED OFF THE NAD 83 NEW YORK STATE PLANES, EAST ZONE, US FOOT COORDINATE
- PROPOSED SOLAR LAYOUT FOR THIS PROJECT PROVIDED BY NEXTera ENERGY.
- THE ALTA SURVEY AND EXISTING PLANIMETRIC DATA WAS PROVIDED BY NEXTERA ENERGY
- 4. ALL DIMENSIONS ARE TO PROJECT BOUNDARY, EDGE OF GRAVEL, FENCE LINES AND SOLAR PANELS UNLESS
- THE GROUND SURFACE CONTOURS (AT ONE-FOOT VERTICAL INTERVALS) AND ELEVATIONS ARE BASED ON A LIDAR DATA FROM NEXTera ENERGY. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE OWNER SHALL BE NOTIFIED AND ARE NOT
- TO BE REMOVED WITHOUT PERMISSION FROM THE OWNER. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER. AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE CONTRACTOR SHALL NOTIFY DIG-SAFE (811 ONE CALL) AT LEAST 48 HOURS BEFORE EXCAVATION ACTIVITIES
- 8. ELECTRONIC FILES ARE AVAILABLE FOR CONSTRUCTION OPERATIONS.

EROSION AND SEDIMENT CONTROL / STORMWATER POLLUTION PREVENTION PLAN (SWPPP):

- 1. PROJECT SWPPP PREPARED BY TRC. PLEASE REFER TO SWPPP PLAN FOR PROJECT SPECIFICS
- 2. THE CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES AS PLANNED AND SPECIFIED FOLLOWING BEST MANAGEMENT PRACTICES AS OUTLINED BY THE NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) AND BEING IN CONFORMANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL STORMWATER PERMIT. SEE THE PROJECT SITE PLANS AND ASSOCIATED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR EROSION CONTROL AND RESTORATION LOCATIONS AND SPECIFICATIONS. UNLESS OTHERWISE NOTED OR MODIFIED IN THE SWPPP/HEREIN, ALL SECTIONS OF THE GENERAL CONDITIONS SHALL APPLY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE SWPPP'S AVAILABILITY.
- 4. ALL FIBER ROLLS AND OTHER EROSION CONTROL FEATURES SHALL BE IN-PLACE PRIOR TO ANY EXCAVATION/CONSTRUCTION AND SHALL BE MAINTAINED UNTIL VIABLE TURF OR GROUND COVER HAS BEEN ESTABLISHED AS DIRECTED BY THE SWPPP QUALIFIED INSPECTOR.
- ALL DRAINAGE SWALES DISTURBED DURING CONSTRUCTION ACTIVITIES AND NOT COVERED BY ROAD SURFACING MATERIALS, SHALL BE STABILIZED IN ACCORDANCE WITH THE SWPPP

HORIZONTAL DIRECTIONAL DRILLING NOTES

1. THE CONTRACTOR SHALL PREPARE AND IMPLEMENT AN INADVERTENT RETURN CONTINGENCY PLAN (THE PLAN) ADDRESSING THE POTENTIAL FOR RETURNS OF DRILLING FLUIDS TO THE SURFACE (I.E., FRAC-OUTS) DURING PERFORMANCE OF HORIZONTAL DIRECTIONAL DRILLING. THE PLAN SHALL DETAIL PROCEDURES FOR MONITORING DRILLING OPERATIONS AND THE MEASURES THAT WILL BE DEPLOYED IN THE EVENT OF AN INADVERTENT RETURN. THE PLAN SHALL BE PREPARED TO MEET THE CONDITIONS OF THE PROJECT PERMITS AND BE SUBMITTED FOR REVIEW AND APPROVAL BY THE OWNER PRIOR TO COMMENCEMENT OF DRILLING WORK.

UNDERGROUND COLLECTOR LINE NOTES:

- 48-HOURS PRIOR TO THE PLANNED START OF EXCAVATION, THE CONTRCTOR SHALL MARK-OUT THE PLANNED WORK AREA AND NOTIFY DIG-SAFE (811) AND ANY NON-PARTICIPATING UTILITIES OF THE PLANNED WORK LOCATION.
- AS-BUILT RECORDS OF THE UNDERGROUND COLLECTOR SYSTEM SHALL INCLUDE GEO-REFERENCED LOCATIONS AND ELEVATIONS OF THE TOP OF THE DUCTBANK AND CABLE SYSTEM. LOCATION AND ELEVATION SHALL BE RECORDED TO SUB-FOOT ACCURACY. AS A MINIMUM, INSTALLED LOCATION/ELEVATIONS SHALL BE RECORDED AT THE START, MIDDLE, AND END OF EACH CHANGE IN HORIZONTAL AND VERTICAL ALIGNMENT. ADDITIONAL LOCATIONS SHALL BE RECORDED SUCH THAT SPACING BETWEEN RECORDED LOCATIONS DOES NOT EXCEED 200-FEET.
- EXCEPT AS REQUIRED TO TRANSITION TO DEPTH, CABLE TRENCH SHALL FOLLOW GROUND CONTOUR AT APPROXIMATELY 4'-6" BELOW GRADE.
- TRANSITION STATION AND ELEVATION ARE FOR CONTRACTOR INFORMATION ONLY. STATION, GRADE, AND RADIUS MAY BE ADJUSTED IN THE FIELD WITH OWNERS APPROVAL.

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07/17/2020 ISSUED FOR REVIEW

Trelina Solar Energy Center

Town of Waterloo Seneca County, NY

Construction Notes

PRELIMINARY NOT FOR CONSTRUCTION **PURPOSES**

07/17/2020 DATE:

C.609 SHEET

GENERAL ENVIRONMENTAL NOTES

- THE CONTRACTOR SHALL CONSTRUCT THE FACILITY CONSISTENT WITH THE NEW YORK STATE DEPARTMENT OF AGRICULTURE AND MARKETS (DAM) GUIDELINES FOR AGRICULTURAL MITIGATION FOR SOLAR POWER PROJECTS, TO THE MAXIMUM EXTENT
- 2. IMPACTS TO ARCHEOLOGICAL AND HISTORIC RESOURCES SHALL BE AVOIDED OR MINIMIZED TO THE EXTENT PRACTICABLE. CONSTRUCTION, INCLUDING SITE CLEARING OR OTHER DISTURBANCE, SHALL NOT BE ALLOWED IN ANY AREAS THAT HAVE NOT BEEN REVIEWED AND APPROVED FOR THE PRESENCE OF CULTURAL RESOURCES.
- 3. CONTRACTOR MUST COMPLY WITH THE PROJECT UNANTICIPATED DISCOVERY PLAN, WHICH ESTABLISHES PROCEDURES IN THE EVENT THAT RESOURCES OF CULTURAL, HISTORICAL, OR ARCHAEOLOGICAL IMPORTANCE ARE ENCOUNTERED DURING FACILITY
- 4. EXCEPT WHERE CROSSED BY PERMITTED ACCESS ROADS OR THROUGH USE OF TEMPORARY MATTING, STREAMS ARE DESIGNATED "NO EQUIPMENT ACCESS" ON THE FINAL FACILITY CONSTRUCTION DRAWINGS AND ROW CLEARING PLANS, AND MUST BE MARKED IN THE FIELD. THE USE OF MOTORIZED EQUIPMENT IS PROHIBITED IN THESE AREAS.
- 5. A BUFFER ZONE OF 100 FEET IS REFERRED TO AS "RESTRICTED ACTIVITIES AREA" ON THE CONSTRUCTION DRAWINGS AND ROW CLEARING PLANS WHERE FACILITY CONSTRUCTION TRAVERSES STREAMS, WETLANDS AND OTHER BODIES OF WATER. RESTRICTED ACTIVITIES AREAS SHALL BE MARKED IN THE FIELD. RESTRICTIONS WILL INCLUDE: NO DEPOSITION OF SLASH WITHIN OR ADJACENT TO A WATER BODY: NO ACCUMULATION OF CONSTRUCTION DEBRIS WITHIN THE AREA: HERBICIDE RESTRICTIONS WITHIN 100 FEET
- OF A STREAM OR WETLAND (OR AS REQUIRED PER MANUFACTURER'S INSTRUCTIONS): NO DEGRADATION OF STREAM BANKS: NO EQUIPMENT WASHING OR REFUELING WITHIN THE AREA; AND NO DISPOSAL OF EXCESS CONCRETE OR CONCRETE WASH WATER. THE STORAGE OF ANY PETROLEUM OR CHEMICAL MATERIAL REQUIRES A MINIMUM BUFFER OF 300 FEET 6. TREE AND VEGETATION CLEARING SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR FACILITY CONSTRUCTION. SURROUNDING TREES AND VEGETATION WILL NOT BE CUT DOWN ON ANY PROPERTY SOLELY TO REDUCE TURBULENCE OR INCREASE WIND FLOW
- TO TREES LESS THAN OR EQUAL TO 3 INCHES IN DIAMETER AT BREAST HEIGHT (DBH). REFER TO CERTIFICATE CONDITION 103. 7. ALL EQUIPMENT ACCESS, STORAGE OF EQUIPMENT AND MATERIALS, AND OTHER CONSTRUCTION ACTIVITIES WILL BE CONFINED TO THE LIMITS OF DISTURBANCE AS DEPICTED ON THE FINAL CONSTRUCTION DRAWINGS.

TO THE FACILITY. TO REDUCE MORTALITY TO NESTING/ROOSTING BIRDS AND BATS, ALL TREE CLEARING ACTIVITIES (EXCEPT FOR

HAZARD TREE REMOVAL) SHALL BE CONDUCTED BETWEEN NOVEMBER 1 AND APRIL 1; NOTE: THIS RESTRICTION DOES NOT APPLY

- 8. FUGITIVE DUST RESULTING FROM CONSTRUCTION ACTIVITIES WILL BE MINIMIZED TO THE MAXIMUM EXTENT PRACTICAL BY IMPLEMENTING APPROPRIATE CONTROL MEASURES. THESE MEASURES INCLUDE THE APPLICATION OF MULCH, OR WATER ON EXPOSED SOILS OR UNPAVED PUBLIC ROADS, AND STONE ON ACCESS ROADS OR EXISTING GRAVEL AREAS WHEN DRY AND WINDY CONDITIONS EXIST. A WATERING VEHICLE
- WILL BE AVAILABLE ON AN AS-NEEDED BASIS. 9. TEMPORARY EROSION CONTROL DEVICES AND STABILIZATION PRACTICES WILL BE INSTALLED SOON AS PRACTICABLE AND APPROPRIATE, IN
- ACCORDANCE WITH THE SWPPP. EROSION CONTROL DEVICES WILL BE INSTALLED AFTER CLEARING, BUT PRIOR TO SOIL DISTURBANCE. 10. WOOD CHIP DEPTH SHALL NOT BE GREATER THAN THREE (3) INCHES. WOOD CHIPS SHALL NOT BE STORED OR DISPOSED OF IN WETLANDS

THREATENED AND ENDANGERED SPECIES

WITHIN STREAM BANKS, DELINEATED FLOODWAYS, OR ACTIVE AGRICULTURAL FIELDS.

- EXCLUDING BALD EAGLES (HALIAEETUS LEUCOCEPHALUS) OR GOLDEN EAGLES (AQUILA CHRYSAETOS), IF AT ANY TIME AN ACTIVE NEST OF ANY FEDERALLY, OR STATE, LISTED THREATENED OR ENDANGERED (TE) BIRD SPECIES IS DISCOVERED WITHIN AN ACTIVE CLEARING SITE, THE REGIONAL NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (DEC) NATURAL RESOURCE SUPERVISOR (716-372-0645) WILL BE NOTIFIED WITHIN TWENTY-FOUR (24) HOURS OF DISCOVERY, AND THE NEST SITE WILL BE MARKED. AN AREA FIVE HUNDRED (500) FEET IN RADIUS AROUND THE NEST WILL BE AVOIDED UNTIL NOTICE TO CONTINUE CONSTRUCTION AT THAT SITE IS GRANTED BY THE REGIONAL DEC NATURAL RESOURCE SUPERVISOR.
- 2. IF AT ANY TIME A BALD OR GOLDEN EAGLE NEST OR COMMUNAL ROOST (DEFINED AS A CLOSE CLUSTER OF TREES WITH 4 OR MORE EAGLES OBSERVED PERCHED) IS LOCATED, THE REGIONAL DEC NATURAL RESOURCE SUPERVISOR WILL BE NOTIFIED WITHIN TWENTY-FOUR (24) HOURS OF DISCOVERY, AND PRIOR TO ANY DISTURBANCE OF THE NEST OR IMMEDIATE AREA. AN AREA OF AT LEAST 0.25 MILES (1,320 FEET) IF THERE IS NOT VISUAL BUFFER OR IF THERE IS A VISUAL BUFFER AN AREA OF AT LEAST SIX HUNDRED SIXTY (660) FEET IN RADIUS FROM THE NEST TREE OR COMMUNAL ROOST WILL BE POSTED AND AVOIDED UNTIL NOTICE TO CONTINUE CONSTRUCTION WITHIN THE BUFFER IS GRANTED BY THE REGIONAL DEC NATURAL RESOURCES SUPERVISOR. THE NEST TREE OR COMMUNAL ROOST WILL NOT BE APPROACHED UNDER ANY CIRCUMSTANCES UNLESS AUTHORIZED BY THE REGIONAL DEC NATURAL RESOURCE SUPERVISOR.
- 3. REPORT ALL OCCURRENCES OF TE AVIAN SPECIES TO THE ENVIRONMENTAL MONITOR. IF A TE AVIAN SPECIES IS OBSERVED DEMONSTRATING BREEDING BEHAVIOR IT SHOULD BE REPORTED TO THE NATURAL RESOURCES SUPERVISOR WITHIN TWENTY-FOUR (24) HOURS
- 4. IF ANY DEAD, INJURED OR DAMAGED STATE-LISTED TE SPECIES, OR THEIR PARTS, EGGS, OR NESTS ARE DISCOVERED WITHIN THE PROJECT AREA THE REGIONAL DEC REGION 8 NATURAL RESOURCE SUPERVISOR AND UNITED STATES FISH AND WILDLIFE SERVICE (USFWS) (607-753-9334) MUST BE NOTIFIED WITHIN TWENTY-FOUR (24) HOURS TO ARRANGE FOR RECOVERY AND TRANSFER OF THE SPECIMEN(S).
- 5. ALL SNAG AND CAVITY TREES DEFINED UNDER NYSDEC PROGRAM POLICY ONRDLF-2 RETENTION ON STATE FORESTS WILL BE RETAINED UNLESS THEIR REMOVAL IS NECESSARY FOR PROTECTION OF HUMAN LIFE AND PROPERTY. SNAG OR CAVITY TREES MAY BE REMOVED AFTER BEING CLEARED BY THE ENVIRONMENTAL MONITOR WHO SHALL CONDUCT AN EMERGENCE COUNT FOR BATS. UNOCCUPIED SNAGS AND CAVITY TREES WILL BE REMOVED WITHIN TWENTY-FOUR (24) HOURS OF A NEGATIVE EMERGENCE
- 6. LEAVE ALL KNOWN AND DOCUMENTED MATERNITY ROOST TREES OF LISTED BAT SPECIES AND ANY TREES WITHIN A 150-FOOT RADIUS OF DOCUMENTED SUMMER OCCURRENCE.
- 7. IF ANY BAT IS OBSERVED FLYING FROM A TREE OR A TREE THAT HAS BEEN CUT, TREE CLEARING ACTIVITIES WITHIN 150-FEET OF THE TREE SHALL BE SUSPENDED AND THE NYSDEC WILDLIFE STAFF SHALL BE NOTIFIED WITHIN TWENTY-FOUR (24) HOURS. A STOP WORK ORDER SHALL IMMEDIATELY BE ISSUED AND THE NYSDEC AND DPS STAFF CONSULTED BEFORE RESUMPTION OF WORK.

WETLANDS AND STREAMS, VEGETATION AND INVASIVE SPECIES

- . ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PRECLUDE CONTAMINATION OF ANY WETLAND OR WATERWAY BY SUSPENDED SOLIDS, SEDIMENTS, FUELS, SOLVENTS, LUBRICANTS, EPOXY COATINGS, PAINTS, CONCRETE, LEACHATE OR ANY OTHER ENVIRONMENTALLY DELETERIOUS MATERIALS ASSOCIATED WITH THE PROJECT.
- 2. ALL CONSTRUCTION ACTIVITY, INCLUDING CLEARING OF VEGETATION, IS TO TAKE PLACE WITHIN THE PROJECT SITE AS WELL FOR DRIVER ON PROJECT PLANS. NO CONSTRUCTION ACTIVITY IS TO TAKE PLACE WITHIN AREAS TO BE LEFT IN A NATURAL CONDITION. AND/OR FLAGGING CONSTRUCTION LIMITS SHALL OCCUR PRIOR TO ANY SITE DISTURBANCE.
- 3. ALL EQUIPMENT AND MACHINERY SHALL BE STORED AND SAFELY CONTAINED MORE THAN 100 FEET LANDWARD OF THE REGULATED WETLAND OR WATER BODY AT THE END OF EACH WORK DAY. THIS MAN SHAPE TO AVOID THE WATER BODY AT THE END OF EACH WORK DAY. OF DELETERIOUS SUBSTANCES INTO THE REGULATED AREA.
- 4. FUEL OR OTHER CHEMICAL STORAGE TANKS SHALL BE CONTAINED AND COLORED AT ALLITHMES IN AN AREX MORE THAN 300 FEBRUARY LANDWARD OF ANY REGULATED WETLAND OR WATER ROOM IN THE ABOVE REQUIREMENT ANNOT BE VET, THEN THE STORAGE AREAS MUST BE DESIGNED TO COMPLETELY CONTAIN ANY NO ALL POTE MICH. LEAKAGE SUCH A CONTAINMENT SYSTEM MUST BE
- APPROVED BY DEC STAFF IN WRITING PRIOR TO EQUIPNEM MACHINERY CHIRAL NK STORAGE 5. ALL MOBILE EQUIPMENT, EXCLUDING DEWATERING PUMPS WINDSTITUTE BE FUELED IN A LOCATION OF LEAST TO THE TOP OF STREAM BANK, WETLAND, OR OTHER WATER BODY. DEWATER NG PUMPS OF ERATED CLOSE WHAN 100 FEET AND MISS STREAM BANK, WETLAND, OR WATER BODY, MUST BE ON AN IMPER 1000S SURFACE AND ABSORBENTS CAPABLE OF CONTAINING ANY
- LEAKAGE OF PETROLEUM PRODUCTS. 6. SPILLAGE OF FUELS, WASTE OILS, OTHER PETROLEUM PRODUCTS OR HAZARDOUS MATERIALS SHALL BE REPORTED TO THE DEC'S SPILL HOTLINE (1-800-457-7362) WITHIN TWO HOURS ACCORDING TO THE DEC SPILL REPORTING AND INITIAL NOTIFICATION REQUIREMENTS TECHNICAL FIELD GUIDANCE.
- 7. ALL EQUIPMENT USED WITHIN THE BED OR BANKS OF STREAMS, WETLANDS AND ADJACENT AREAS, MUST BE INSPECTED DAILY FOR LEAKS OF PETROLEUM, OTHER FLUIDS, OR CONTAMINAMIS MAY ONLY ENTER A STREAM CHANNEL IF FOUND TO BE
- FREE OF ANY LEAKAGE. A SPILL KIT MUST BE ON SITE AND ANY CAR'S MUST BE STOPPED AND CLEANED UP IMMEDIATELY. 8. VISIBLY TURBID DISCHARGES FROM LAND CLEARING, SHALL NOT ENTER ANY SURFACE WATER BODY. ALL NECESSARY MEASURES SHALL BE IMPLEMENTED TO PREVENT ANY VISIBLE INCREASE IN TURBIDITY OR SEDIMENTATION DOWNSTREAM OF THE WORK SITE,
- INCLUDING BUT NOT LIMITED TO THE USE OF: 8.1. APPROPRIATELY MAINTAINED UPLAND SETTLING BASINS;
- 8.2. CRUSHED STONE, SAND, STRAW BALES, OR SILT SCREENING (MAXIMUM OPENING SIZE OF U.S. SIEVE NUMBER 20) TO FILTER TURBID WATERS:
- 8.3. SILT-BAGS" OR SIMILAR PRE-CONSTRUCTED STRUCTURE DESIGNED TO REMOVE SILT AND SEDIMENT PARTICLES BEFORE THEY ARE DISCHARGED, OR
- 8.4. GRASSY UPLAND AREAS AT A SUFFICIENT DISTANCE FROM THE RECEIVING WATER BODY TO PREVENT A VISUALLY DISCERNIBLE TURBID DISCHARGE TO THE RECEIVING WATER.
- 9. AT LOCATIONS WHERE TEMPORARY WETLAND CROSSINGS ARE NECESSARY IMPACTS WILL BE AVOIDED THROUGH THE USE OF
- 10. ALL DISTURBED SOILS WITHIN REGULATED FRESHWATER WETLANDS AND THE ASSOCIATED ADJACENT AREAS MUST BE SEEDED WITH A NATIVE SEED MIX AND MULCHED WITH STRAW ONLY (HAY IS PROHIBITED). MULCH SHALL BE MAINTAINED UNTIL THE DISTURBED AREA IS HEAVILY REVEGETATED. ADDITIONAL SEEDING SHALL BE COMPLETED AS NECESSARY TO ACHIEVE AN 85% VEGETATIVE COVER ACROSS ALL DISTURBED AREAS.
- 11. ANY DEBRIS OR EXCESS MATERIAL FROM CONSTRUCTION OF THE PROJECT SHALL BE COMPLETELY REMOVED FROM WETLANDS OR ADJACENT AREAS (UPLAND) AND RELOCATED TO A FACILITY DULY AUTHORIZED TO RECEIVE SUCH MATERIAL.
- 12. CLEARED VEGETATION AND SLASH FROM WETLANDS AND ADJACENT AREAS WILL NOT BE BURNED OR BURIED WITHIN THE WETLAND OR ADJACENT AREA. THE VEGETATION MUST BE DISPOSED OF OUTSIDE OF THE WETLAND AND ADJACENT AREA, BUT SLASH THAT IS CUT MAY BE LEFT IN PLACE (DROP AND LOP OR PILED IN DRY OR SEASONALLY SATURATED PORTIONS OF FRESHWATER WETLANDS AND 100-FOOT ADJACENT AREAS TO CREATE WILDLIFE BRUSH PILES).
- 13. TO CONTROL THE SPREAD OF INVASIVE INSECTS, THE CONTRACTOR WILL:
- 13.1. ASSUME THAT ALL CONSTRUCTION EQUIPMENT (INCLUDING TIMBER MATS) IS CLEAN UPON ARRIVAL ON SITE, AND THAT EQUIPMENT UTILIZED IN AREAS WITH AN ABUNDANCE OF INVASIVE SPECIES ARE CLEANED PRIOR TO MOVING TO ANOTHER
- 13.2. COORDINATE FOR SALE AND USE OF THE MERCHANTABLE TIMBER PER THE OWNER'S LAND USE AGREEMENTS; AND PROVIDE UNMERCHANTABLE TIMBER AS FIREWOOD TO ADJACENT LANDOWNERS OR THE GENERAL PUBLIC PURSUANT TO THE DEC'S FIREWOOD RESTRICTIONS TO PROTECT FORESTS FROM INVASIVE SPECIES FOUND IN 6 NYCRR PART 192.5. 13.3. MAKE SURE CREWS ARE TRAINED TO IDENTIFY THE ASIAN LONGHORNED BEETLE AND THE EMERALD ASH BORER AND ANY
- OTHER INSECTS THAT THE DEC IDENTIFIES AS A POTENTIAL PROBLEM. IF THESE INSPECTS ARE ROUND, THEY MUST BE REPORTED TO THE DEC REGIONAL FORESTER, AND 13.4. COMPLY WITH SITE-SPECIFIC PLANS FOR MANAGEMENT OF JAPANESE KNOTWEED AND SPECIES AS DESCRIBED IN THE INVASIVE
- SPECIES CONTROL PLAN (ISCP)
- 14. IF A ONE-TIME CROSSING OF A STREAM OCCURS AS PART OF AN INSTALLATION OF A TEMPORARY BRIDGE AND A TIRE MAT IS USED, THE FOLLOWING RESTRICTIONS APPLY:
- 14.1. THE MAT MUST FOLLOW THE CONTOUR OF THE STREAMBED AND ALLOW FOR A LOW FLOW CHANNEL AND NOT CHANGE THE FLOW PATH OF THE STREAM
- 14.2. THE MAT SHALL BE REMOVED IMMEDIATELY AFTER THE CROSSING OF THE STREAM OCCURS.

- 15. IF ANY TREES AND SHRUBS GROWING WITHIN 50 FEET OF STREAMS NEED TO BE CUT FOR TEMPORARY TREE CLEARING MEASURES (I.E. BLADE SWING FOR COMPONENT DELIVERY), THEY SHALL BE CUT OFF WITH AT LEAST TWO FEET OF THE STUMP REMAINING. STUMPS AND ROOT SYSTEMS SHALL NOT BE DAMAGED TO FACILITATE STUMP SPROUTING. TREES SHALL NOT BE FELLED INTO ANY STREAM OR ONTO THE IMMEDIATE STREAM BANK. ALL TREES AND SHRUBS CUT WITHIN THE 50 FOOT BUFFER AREA SHALL BE LEFT
- 16. CLEARING OF NATURAL VEGETATION ALONG STREAMS AND WITHIN WETLANDS SHALL BE LIMITED TO THAT MATERIAL WHICH POSES A HAZARD OR HINDRANCE TO THE CONSTRUCTION ACTIVITY. SNAGS WHICH PROVIDE SHELTER IN STREAMS FOR FISH SHALL NOT BE DISTURBED UNLESS THEY CAUSE SERIOUS OBSTRUCTIONS, SCOURING OR EROSION. TREES SHALL NOT BE FELLED INTO ANY STREAM OR ONTO THE IMMEDIATE STREAM BANK.
- 17. WITHIN 50 FEET OF WETLANDS AND OTHER WATER BODIES, REMOVE ONLY THE MINIMUM VEGETATION NECESSARY TO ALLOW CONSTRUCTION AND OPERATION OF THE FACILITY.
- 18. STREAMS AND WETLANDS WILL BE PROTECTED FROM INDIRECT IMPACTS DURING CONSTRUCTION BY UTILIZING VARIOUS EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH APPROVED PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP). SUCH MEASURES WILL INCLUDE, BUT NOT BE LIMITED TO, SILT FENCES PLACED BETWEEN WATER RESOURCE BOUNDARIES AND CONSTRUCTION AREAS. EXPOSED SOIL WILL BE SEEDED AND/OR MULCHED, AS SOON AS PRACTICABLE, BUT IN ANY EVENT, NO LATER THAN THE END OF THE WORK DAY IN WHICH SITE DISTURBANCE OCCURS, TO ASSURE THAT EROSION AND SILTATION IS KEPT TO A MINIMUM ALONG STREAM AND WETLAND BOUNDARIES
- 19. CONSTRUCTION WORK IN STREAMS WILL CONFORM TO APPROPRIATE TIMING RESTRICTIONS TO PROTECT IMPORTANT FISHERIES RESOURCES, DURING SPAWNING AND PRIMARY MIGRATION PERIODS. STREAMS SUBJECT TO SUCH RESTRICTIONS WILL BE DETERMINED IN THE FIELD BY REPRESENTATIVES OF THE DEC AND THE APPLICANT, PRIOR TO CONSTRUCTION. FOR COLD WATER FISHERIES IN THE PROJECT AREA, CONSTRUCTION WORK IN STREAMS WILL BE PROHIBITED BETWEEN OCTOBER 1 AND MAY 31 TO AVOID TROUT SPAWNING PERIODS. FOR WARM WATER FISHERIES, CONSTRUCTION WORK IN STREAMS WILL BE PROHIBITED BETWEEN MARCH 1 AND JULY 15. HOWEVER, ONCE INSTALLED, SUCH CROSSINGS CAN BE USED BY CONSTRUCTION VEHICLES THROUGHOUT THE DURATION OF PROJECT CONSTRUCTION. ANY EXCEPTIONS TO THESE PROHIBITED PERIODS REQUIRE PRIOR APPROVAL BY DPS STAFF, IN CONSULTATION WITH DEC.
- 20. RESTRICTED ACTIVITIES PERTAIN TO A BUFFER ZONE OF 100 FEET ON EITHER SIDE OF THE BOUNDARIES OF WATER-RELATED RESOURCES (STREAMS, WETLANDS, SPRINGS, WELLS, DRAINAGE, ETC.) AND INCLUDE THE FOLLOWING RESTRICTIONS:
- A. NO DEPOSITION OF SLASH WITHIN IDENTIFIABLE STREAM CHANNELS OR WOOD CHIPS WITHIN 25 FEET OF WETLANDS;
- B. NO UNNECESSARY REMOVAL OF WOODY VEGETATION OR DEGRADATION OF STREAM BANKS:
- C. NO EQUIPMENT WASHING OR REFUELING EXCEPT AS SPECIFIED IN THE FINAL CONSTRUCTION DRAWINGS; D. AND NO STORAGE MIXING OR HANDLING OF ANY PETROLEUM OR CHEMICAL MATERIALS IN OPEN CONTAINERS.

E. REFUELING OF EQUIPMENT MUST UTILIZE SECONDARY CONTAINMENT MEASURES.

CLEARING METHODS

- TYPE I CLEARING CONSISTS OF CLEARING THE DESIGNATED AREAS OF ALL WOOD PLANTS, INCLUDING DESIRABLE LOW-GROWING SPECIES. ALL PLANTS WILL BE CUT AS CLOSE TO THE GROUND AS PRACTICABLE, AND AFTER CUTTING NO PLANT WILL EXCEED SIX (6) INCHES ABOVE GROUND LINE. TYPE I CLEARING WILL BE UTILIZED IN CIRCUMSTANCES WHERE WOODY PLANTS WOULD HINDER ACCESS AND CONSTRUCTION ACTIVITIES (I.E., IN CONNECTION WITH CLEARING ACCESS ROADS, WORK AREAS, AND COLLECTION
- 2. TYPE II CLEARING CONSISTS OF CLEARING THE DESIGNATED AREAS OF ANY WOODY PLANTS SPECIES WHICH HAVE THE POTENTIAL TO VIOLATE MINIMUM CLEARANCE DISTANCE. ALL GROWTH WILL BE CUT AS CLOSE TO THE GROUND AS PRACTICABLE, BUT IN NO CASE WILL AFTER-CUTTING HEIGHT EXCEED SIX (6) INCHES ABOVE GROUND LINE, UNLESS OTHERWISE DIRECTED BY THE **ENVIRONMENTAL MONITOR (EM)**
- 3. REASONABLE CARE WILL BE TAKEN, INSOFAR AS IS PRACTICAL, TO RETAIN DESIRABLE SPECIES FOUND WITHIN TYPE II CLEARING ZONES. THE ENVIRONMENTAL MONITOR (EM) WILL MAKE A FIELD DETERMINATION AS TO WHETHER SUCH RETENTION WOULD IMPOSE AN UNREASONABLE BURDEN ON CLEARING OR CONSTRUCTION ACTIVITIES.

WOOD/SLASH DISPOSAL METHODS

- 1. TYPE A CONSISTS OF REMOVING ALL WOODY DEBRIS FROM THE PROPERTY.
- 2. TYPE B CONSISTS OF THE REMOVAL OF ALL LOGS FROM THE PROPERTY. BRUSH/SLASH SHOULD BE CHIPPED AND SPREAD WITHIN
- 3. TYPE C LOGS SHALL BE PLACED IN PILES IN DESIGNATED STORAGE AREAS AS SHOWN, OR AT THE EDGE OF THE LIMITS OF
- DISTURBANCE. BRUSH/SLASH SHOULD BE CHIPPED AND SPREAD WITHIN THE LIMITS OF DISTURBANCE. 4. TYPE D - CONSISTS OF DROPPING LOPPING TREES SO THAT THE SLASH LIES AS CLOSE TO THE GROUND AS PRACTICABLE, WITH BRANCHES AND LIMB WOOD NOT EXCEEDING AN AVERAGE DEPTH OF TWENTY-FOUR (24) INCHES. INCLUDING WETLAND AND
- STREAMS AREAS, TYPE D WOOD DISPOSAL WILL ADHERE TO THE FOLLOWING ADDITIONAL CONDITIONS INCLUDED: 4.1. ONLY A SELECTIVE PORTION OF VEGETATION, AS NEEDED TO PREVENT THE BLOCKING OF FLOW AND TRAPPING OF DEBRI IS TO BE REMOVED FROM THE WATER COURSE AND FLOODWAY, ALL CUTTINGS REGARDLESS OF ACCUSATION ARE TO BE CUT AND BUCKED TO LIE NEAR GROUND LEVEL. HOWEVER, WHERE TREE ROOF BASIS RE ATTACHED TO THE STREET BANK, THEY WILL BE LEFT IN PLACE. THE REMAINDER OF THE TREE WILL BE CONFROM THE BASE PRIOR TO REMOVAL.

DANGER TREES

- . A DANGER TREE IS ANY TREE ROOTED OUTSIDE OF A RIGHT OF WAY WOW) THAT, DUE WOUNTS PROXIMITY AND PHYSICAL CONDITION (I.E., MORALITY, LEAN, DECAY, CAYTIES, CRACKS, WEAK BRANCHING, WOOT LIFTING, OR WITHER INSTABILITY POSES A PARTICULAR DANGER TO KEY FACILITY COMPONENTS
- 2. ALL DANGER TREES WILL BE REMOVED AND AS TIME OF THE INVITAL CLEANING AND AS PART OF THE NORMAL CLEANING ACTIVITIES. THE SLASH FROM WESE DANGER THE SWILL BE DISPOSED OF WACCOMMINICE WITH THE SANGE DISPOSAL METHOD DESIGNATED FOR THE WORK AREA ADJOINING THE AREA WOUND WHICH THE DANGER WAS SHAVE BEEN REMOVED.

PROCEDURE FOR OFF-SITE REMOVAL OF STUMPS, CHIRS, AND SLASH

- WHERE OFF-SITE REMOVAL OF STUMPS, WIPS, OR SLASHISM CESSARY, AND TERIALS WILL BECOME THE PROPERTY OF THE CONTRACTOR. IN ALL CASAS, ALL MATERIA! THAT IS RENOWED FROM THE SITE WILL BE DISPOSED ON IN AN ENVIONMENTALLY-ACCEPTE BLE MANNER WID IN COMPLIANCE WITH ALL APPLICABLE RULES AND REGULATIONS INCLUDING 6
- NYCRR PART 192 AND A.I. OTHER INVASIVE STECIES REGULATIONS. THE CONTRACTOR WILL PROPOSED OFF-SITE DISPOSAL SITES PRIOR TO WAR TART OF THE PROJECT. THE ENVIRONMENTAL MONITOR (EM) WILL INSPECT ALL PROPOSED OFF-SITE DISPOSAL SITES TO ENSURE THEY ARE SUITABLE AND WILL NOTIFY DPS STAFF

TREE CLEARING:

- TREES WITHIN WETLANDS ARE TO BE HAND CUT. WETLANDS ARE NOT TO BE ENCROACHED WITH MACHINERY AND WETLANDS ARE TO BE
- 2. ONCE PERMIT HAS BEEN OBTAINED THE CONTRACTOR IS TO MINIMIZE THE WETLANDS ENCROACHMENT AS MUCH AS POSSIBLE IN ORDER TO REMOVE THE TREE STUMPS.
- 3. CONTRACTOR IS TO PROPERLY REMOVE AND DISPOSE OF THE TIMBER. COORDINATE WITH THE DEVELOPER.
- 4. ALL CLEARANCE LIMITS ARE A 10 FOOT OFFSET FROM THE GRADING LIMIT.
- 5. AFTER INITIAL TREE CLEARING IS COMPLETED, ANY ADDITIONAL TREE CLEARING MUST BE APPROVED BY THE ENVIRONMENTAL MONITOR. 6. LIMITS OF DISTURBANCE 40 FEET WIDE AND 100 FEET WIDE FOR OVERHEAD COLLECTION LINES.

PRELIMINARY CONTRACTOR NOTES:

- 1. THE BOUNDARIES OF ALL STREAMS, WETLANDS, AND WETLAND ADJACENT AREAS AS DEPICTED ON THE FINAL CONSTRUCTION DRAWINGS WILL BE MARKED IN THE FIELD BY EITHER LATH MARKERS, SURVEYORS RIBBON, PIN FLAGS, OR SUITABLE EQUIVALENT PRIOR TO CONSTRUCTION BY THE BOP CONTRACTOR.
- 2. THE BOUNDARIES OF ALL AREAS OF TREES TO BE CLEARED AS DEPICTED ON THE FINAL CONSTRUCTION DRAWINGS WILL BE MARKED IN THE FIELD BY EITHER LATH MARKERS, SURVEYORS RIBBON, PIN FLAGS, OR SUITABLE EQUIVALENT PRIOR TO CONSTRUCTION BY THE BOP CONTRACTOR.
- 3. ANY DISRUPTION TO DEC REGULATED WETLANDS WILL BE MINIMIZED. DEC'S FIELD REPRESENTATIVE WILL NOTIFY THE DPS STAFF REPRESENTATIVE AND THE APPLICANT'S REPRESENTATIVE OF ANY ACTIVITIES THAT VIOLATE OR MAY VIOLATE EITHER THE TERMS OF THE ARTICLE 10 CERTIFICATE OR THE
- ENVIRONMENTAL CONSERVATION LAW. DPS AND DEC STAFFS' FIELD REPRESENTATIVES WILL WORK COOPERATIVELY TO DETERMINE WHETHER STOP WORK AUTHORITY WILL BE EXERCISED. OR WHETHER TO DIRECT THE APPLICANT TO TAKE ACTION TO FURTHER MINIMIZE IMPACTS TO STREAMS AND WETLANDS. 4. RESTRICTED ACTIVITIES PERTAIN TO A BUFFER ZONE OF 300 FEET ON EITHER SIDE OF THE BOUNDARIES OF WATER-RELATED RESOURCES (STREAMS,
- A. NO DEPOSITION OF SLASH WITHIN IDENTIFIABLE STREAM CHANNELS OR WOOD CHIPS WITHIN 25 FEET OF WETLANDS;
- B. NO UNNECESSARY REMOVAL OF WOODY VEGETATION OR DEGRADATION OF STREAM BANKS;

E. REFUELING OF EQUIPMENT MUST UTILIZE SECONDARY CONTAINMENT MEASURES.

WETLANDS, SPRINGS, WELLS, DRAINAGE, ETC.) AND INCLUDE THE FOLLOWING RESTRICTIONS:

- C. NO EQUIPMENT WASHING OR REFUELING EXCEPT AS SPECIFIED IN THE FINAL CONSTRUCTION DRAWINGS;
- D. AND NO STORAGE MIXING OR HANDLING OF ANY PETROLEUM OR CHEMICAL MATERIALS IN OPEN CONTAINERS.
- F. REFUELING OR CHEMICAL STORAGE CAN NOT OCCUR WITHIN 300 FEET.
- 5. "AVOID, DO NOT CROSS" INDICATES THAT AN AREA DOES NOT HAVE A DESIGNATED ACCESS ROUTE AND THAT EQUIPMENT IS RESTRICTED FROM CROSSING OR OPERATING IN THAT AREA. THIS DESIGNATION IS APPLIED TO ALL WETLANDS, STREAMS, AND ASSOCIATED BUFFERS THAT DO NOT HAVE APPROVED EQUIPMENT ACCESS, AS DEPICTED ON THE WETLAND IMPACT DRAWINGS. THESE RESTRICTIONS SHALL ALSO BE INDICATED ON THE FINAL CONSTRUCTION
- 6. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL TREES, BRUSH, AND DEBRIS WITHIN THE GRADING AREAS SHOWN ON THE PLANS. THE CONTRACTOR IS TO REMOVE ONLY THOSE TREES WHICH ARE DESIGNATED BY THE OWNER'S REPRESENTATIVE FOR REMOVAL, AND SHALL EXERCISE EXTREME CARE AROUND EXISTING TREES TO BE SAVED.
- 7. THE BOUNDARIES OF ALL STREAMS, WETLANDS, AND WETLAND ADJACENT AREAS AS DEPICTED ON THE FINAL CONSTRUCTION DRAWINGS WILL BE MARKED IN THE FIELD BY EITHER LATH MARKERS, SURVEYORS RIBBON, PIN FLAGS, OR SUITABLE EQUIVALENT PRIOR TO TREE CLEARING BY THE TREE CLEARING
- CONTRACTOR. BOUNDARIES SHALL BE RE-MARKED AS NECESSARY FOLLOWING CLEARING. 8. CONCRETE WASHOUT LOCATIONS TO BE INDENTIFIED BY THE CONTRACTOR AS FOLLOWS: WASTE CONCRETE OR CONCRETE FROM THE TRACK LIMITAL OUT ACTIVITY AND/OR ANY WASH WATER FORM TRUCKS, EQUIPMENT OR TOOLS IF DONE ON SITE, MUST BE CONTAINED IN A MANNER THAT WAS A SOUTH OF THE STREAMBANK OR INTO THE STREAM CHANNEL AND ENTERING

THE STREAM, OR ENTERING WETLAND, OR ANY OTHER MANERODY. IF WDISCHARGE OCCURS, DEC REGION 8 SUPERVISOR OF NATURAL RESOURCES SHALL

BE CONTACTED WITHIN 2 HOURS OF SOSAL OF WASTE CONCRETE OR WASH WATER MUST OCCUR GREATER THAN 300 FEET FROM ANY WATERBODY.

- PRELIMINARY COMMERAL ENVIRONMENTAL RESTRICTIONS: ALL EQUIPMENT ACCESS STORAGE OF ECONOMINATERIALS, AND CONSTRUCTION ACTIVITIES WILL BE CONFINED TO THE ACCESS ROADS, LAYDOWN AREAS, AND THE COLLECTION AND TRANSMISSION LINE ROUTES AS DEPICTED THE FINAL CONSTRUCTION DRAWINGS.
- EQUIPMENT WILL UTILIZE THE INTERSECTION OF ACCESS ROADS AND EXISTING ROADS FOR TURNING. WORK AREAS, SUCH AS ARRAY PADS AND LAYDOWN AREAS, WILL ALSO PROVIDE AREAS FOR KINDIPMEN TURNING AND PARKING, IN ADDITION TO DESIGNATED TURNING LOCATIONS.
- We dust resulting with construction and successful be minimized to the maximum extent practical by implementing appropriate control MEASURES. THESE MEASURES WILLIAM THE APPLICATION OF MULCH, WATER, OR STONE ON ACCESS ROADS, EXPOSED SOILS, STOCKPILED SOILS, OR UNPAVED PUBLIC TO DE VIEN DRY AND WIN AND PROPERTIONS EXIST. A WATERING VEHICLE WILL BE AVAILABLE ON AN AS-NEEDED BASIS. REFER TO DUST CONTROL PLAN PREPARED BY
- 4. WITHIN 100 KEEPER STATE REGULATED WETLANDS AND 50 FEET OF OTHER WATER BODIES, REMOVE ONLY THE MINIMUM VEGETATION NECESSARY TO ALLOW CONSTRUCTION AND OPERATION OF THE FACILITY
- STREAMS AND WETLANDS WILL BE PROTECTED FROM INDIRECT IMPACTS DURING CONSTRUCTION BY UTILIZING VARIOUS EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH APPROVED PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP). SUCH MEASURES WILL INCLUDE, BUT NOT BE LIMITED TO, SILT FENCES PLACED BETWEEN WATER RESOURCE BOUNDARIES AND CONSTRUCTION AREAS. EXPOSED SOIL WILL BE SEEDED AND/OR MULCHED, AS SOON AS PRACTICABLE, BUT IN ANY EVENT, NO LATER THAN THE END OF THE WORK DAY IN WHICH SITE DISTURBANCE OCCURS, TO ASSURE THAT EROSION AND SILTATION IS KEPT TO A MINIMUM ALONG STREAM AND WETLAND BOUNDARIES
- 6. TEMPORARY EROSION CONTROL DEVICES AND STABILIZATION PRACTICES WILL BE INSTALLED SOON AS PRACTICABLE AND APPROPRIATE. IN ACCORDANCE WITH THE
- 7. THE BOP CONTRACTOR WILL LOCATE AND DISTRIBUTE EXCESS EXCAVATION MATERIAL IN NON-AGRICULTURE UPLAND AREAS (I.E., OUTSIDE OF WETLANDS, STREAMS, AND AGRICULTURAL FIELDS). WHERE PRACTICAL, SUCH MATERIAL WILL BE USED AS ROAD FILL OR BACKFILL AROUND STRUCTURES. EROSION CONTROL PRACTICES WILL BE INSTALLED, AND EXPOSED SOILS STABILIZED IN ACCORDANCE WITH THE SWPPP

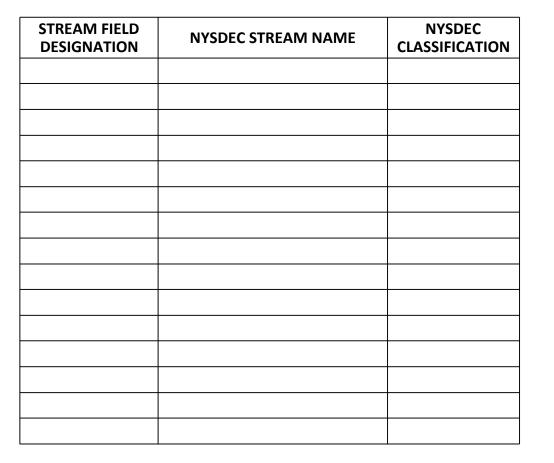
SWPPP. EROSION CONTROL DEVICES WILL BE INSTALLED AFTER CLEARING, BUT PRIOR TO SOIL DISTURBANCE. NO REFILLING OR CHEMICAL STORAGE WITHIN 300 FT.

8. CONSTRUCTION EQUIPMENT SANITATION: THE INTRODUCTION OF NON-NATIVE INVASIVE PLANT SPECIES WILL BE CONTROLLED BY ASSURING THAT ALL CONSTRUCTION EQUIPMENT IS CLEAN UPON ARRIVAL ON SITE, AND THAT EQUIPMENT UTILIZED IN AREAS WITH AN ABUNDANCE OF INVASIVE SPECIES WILL BE CLEANED PRIOR TO MOVING TO ANOTHER SITE. THE INTENT IS THAT EQUIPMENT SHOULD ARRIVE AT THE SITE CLEAN AND LEAVE THE SITE CLEAN. EQUIPMENT/CLOTHING CLEANING STATIONS WILL BE

PRELIMINARY SPECIFIC STREAM CROSSING RESTRICTIONS:

STREAM FIELD

- CONSTRUCTION WORK IN STREAMS WILL CONFORM TO APPROPRIATE TIMING RESTRICTIONS TO PROTECT IMPORTANT FISHERIES RESOURCES, DURING SPAWNING AND PRIMARY MIGRATION PERIODS. STREAMS SUBJECT TO SUCH RESTRICTIONS WILL BE DETERMINED IN THE FIELD BY REPRESENTATIVES OF THE DEC AND THE APPLICANT, PRIOR TO CONSTRUCTION, FOR COLD WATER FISHERIES IN THE PROJECT AREA, CONSTRUCTION WORK IN STREAMS WILL BE PROHIBITED BETWEEN OCTOBER 1 AND MAY 31 TO AVOID TROUT SPAWNING PERIODS. FOR WARM WATER FISHERIES, CONSTRUCTION WORK IN STREAMS WILL BE PROHIBITED BETWEEN MARCH 1 AND JULY 15. HOWEVER, ONCE INSTALLED, SUCH CROSSINGS CAN BE USED BY CONSTRUCTION VEHICLES THROUGHOUT THE DURATION OF PROJECT CONSTRUCTION. ANY EXCEPTIONS TO THESE PROHIBITED PERIODS REQUIRE PRIOR APPROVAL BY DPS STAFF. IN CONSULTATION WITH DEC
- 2. IN PROTECTED STREAMS CLASSIFIED AS C(T OR TS), B(T OR TS), A(T OR TS), OR AA((T OR TS), ALL INSTREAM WORK, AS WELL AS ANY WORK THAT MAY RESULT IN THE SUSPENSION OF SEDIMENT, IS PROHIBITED DURING THE TROUT SPAWNING AND INCUBATION PERIOD COMMENCING OCTOBER 1 AND ENDING MAY 31, UNLESS THE ENVIRONMENTAL MONITOR RECEIVES APPROVAL FROM THE NYSDEC REGIONAL SUPERVISOR OF NATURAL RESOURCES.
- . A BUFFER ZONE OF 300 FEET, REFERRED TO AS "RESTRICTED ACTIVITIES AREA" OR SIMILAR ON THE FINAL FACILITY CONSTRUCTION DRAWINGS AND ROW CLEARING PLANS, SHALL BE ESTABLISHED WHERE FACILITY CONSTRUCTION TRAVERSES STREAMS, WETLANDS AND OTHER BODIES OF WATER. RESTRICTED ACTIVITIES AREAS SHALL BE MARKED IN THE FIELD. RESTRICTIONS WILL INCLUDE:NO DEPOSITION OF SLASH WITHIN OR ADJACENT TO A WATERBODY;NO ACCUMULATION OF CONSTRUCTION DEBRIS WITHIN THE AREA; HERBACIDE RESTRICTIONS WITHIN 300 FEET OF A STREAM OR WETLAND(OR AS REQUIRED PER MANUFACTURER'S INSTRUCTIONS); NO DEGRADATION OF STREAM BANKS; NO EQUIPMENT WASHING OR REFUELING WITHIN THE AREA; NO STORAGE OF ANY PETROLEUM OR CHEMICAL MATERIAL; AND NO DISPOSAL OF EXCESS CONCRETE OR CONCRETE WASH WATER.
- 4. EXCEPT WHERE CROSSED BY PERMITTED ACCESS ROADS OR THROUGH USE OF TEMPORARY MATTING, STREAMS SHALL BE DESIGNATED "NO EQUIPMENT ACCESS" OR SIMILAR ON THE FINAL FACILITY CONSTRUCTION DRAWINGS.



STREAM FIELD DESIGNATION	NYSDEC STREAM NAME	NYSDEC CLASSIFICATION

NYSDEC

(952) 937-5822 Minnetonka, MN 55343 Toll Free (888) 937-5150 westwoodps.com Westwood Surveying and Engineering, P.C.



700 Universe Blvd, Juno Beach, FL 33408

REVISIONS: # DATE COMMENT A 04/17/2020 ISSUED FOR REVIEW B 05/28/2020 ISSUED FOR REVIEW 06/30/2020 ISSUED FOR REVIEW 07/17/2020 ISSUED FOR REVIEW

Trelina Solar Energy Center

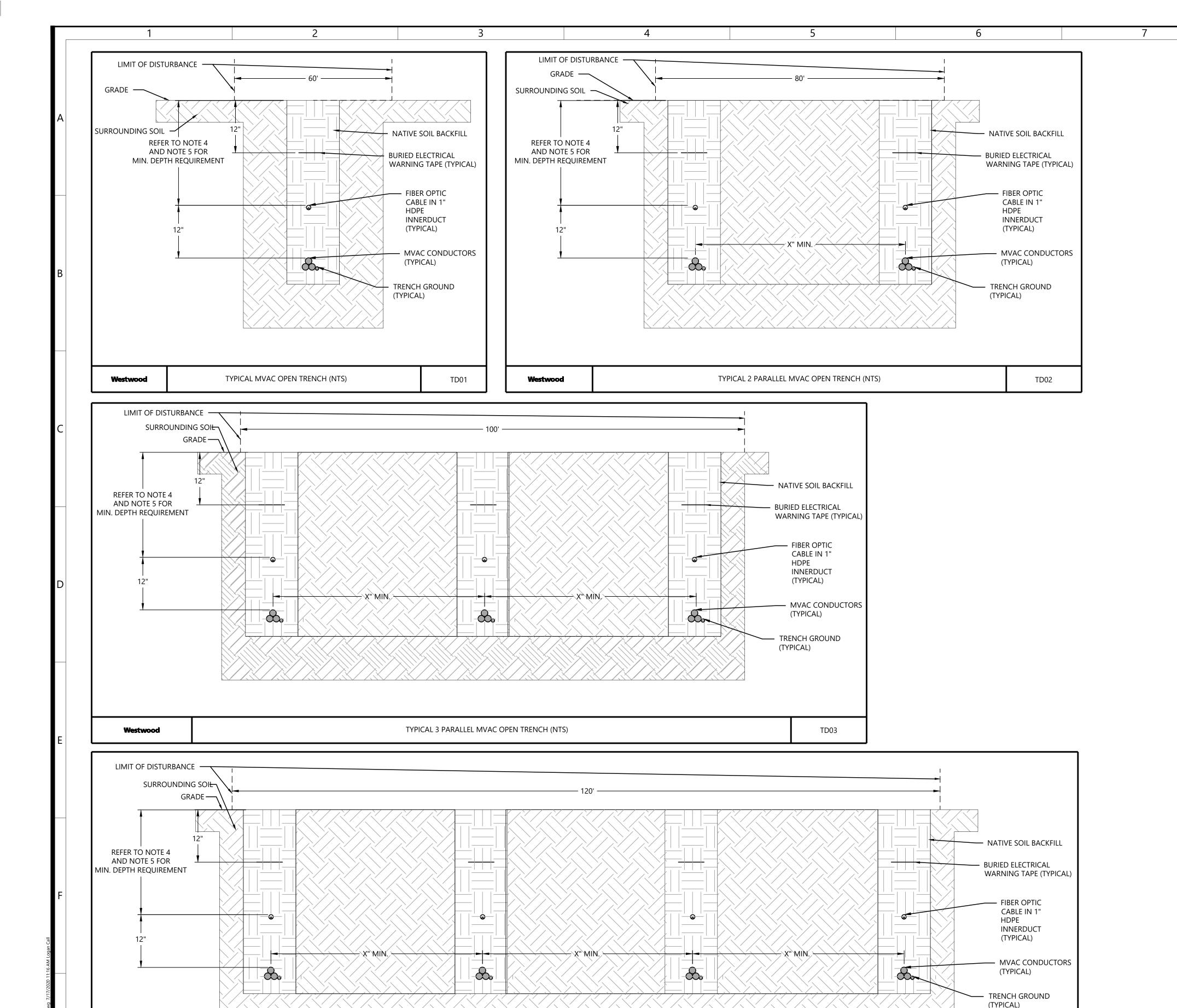
Town of Waterloo Seneca County, NY

Tree Clearing Notes

PRELIMINARY NOT FOR CONSTRUCTION **PURPOSES**

07/17/2020 DATE:

SHEET



TYPICAL 4 PARALLEL MVAC OPEN TRENCH (NTS)

Westwood

NOTES:

TD04

- 1. TRENCHES AND BACKFILL SHALL BE FREE OF ROCK, STUMPS, LARGE ROOTS OR ANY OTHER MATERIAL LARGER THAN 3/8" IN DIAMETER THAT CAN CAUSE DAMAGE TO CABLE JACKETS OR
- 2. TYPICAL MVAC TRENCHES SHALL BE MINIMUM 2.5' AWAY FROM PILES. TRENCHES THAT ARE WITHIN 2.5' OF PILES SHALL BE COMPACTED TO 95%.
- 3. BACKFILL LIFTS SHALL NOT EXCEED 12".
- 4. ALL BURIED UTILITIES LOCATED WITHIN THE GENERATION FACILITY'S SECURITY FENCE MUST HAVE A MINIMUM DEPTH OF 36" IF DIRECT BURIED AND MINIMUM DEPTH OF 18" IF BURIED IN
- 5. ALL BURIED UTILITIES LOCATED OUTSIDE OF THE GENERATION FACILITY SECURITY FENCE: (a) IN CROPLAND, HAYLAND, AND IMPROVED PASTURE BURIED ELECTRIC CONDUCTORS MUST HAVE A MINIMUM DEPTH OF 48" OF COVER, IN AREAS WHERE THE DEPTH OF SOIL BEDROCK IS LESS THAN 48", THE ELECTRIC CONDUCTORS MUST BE BURIED BELOW THE SURFACE OF THE BEDROCK IF FRIABLE/RIPPABLE, OR AS NEAR AS POSSIBLE TO THE SURFACE OF THE BEDROCK. (b) IN UNIMPROVED GRAZING AREAS OR ON LAND PERMANENTLY DEVOTED TO PASTURE THE MINIMUM DEPTH OF COVER MUST BE 36".
- (c) WHERE ELECTRICAL CONDUCTORS ARE BURIED DIRECTLY BELOW THE GENERATION FACILITY'S ACCESS ROAD OR IMMEDIATELY ADJACENT (AT ROAD EDGE) TO THE ACCESS ROAD, THE MINIMUM DEPTH OF COVER MUST BE 36" IF DIRECT BURIED AND 24" IF BURIED IN CONDUIT. CONDUCTORS MUST BE CLOSED ENOUGH TO THE ROAD EDGE AS TO BE NOT SUBJECT TO AGRICULTURAL CULTIVATION/SUB-SOILING.
- 6. WHEN OPEN-CUT TRENCHING IS PROPOSED, TOPSOIL STRIPPING IS REQUIRED FROM THE WORK AREA ADJACENT TO THE TRENCH (INCLUDING SEGREGATED STOCKPILE AREAS AND EQUIPMENT ACCESS). TRENCHER OR ROAD SAW LIKE EQUIPMENT ARE NOT ALLOWED FOR TRENCH EXCAVATION IN AGRICULTURAL AREAS, AS THE EQUIPMENT DOES NOT SEGREGATE TOPSOIL FROM SUBSOIL. HORIZONTAL DIRECTIONAL DRILLING (HDD) OR EQUIVALENT INSTALLATION THAT DOES NOT DISRUPT THE SOIL PROFILE, MAY LIMIT AGRICULTURAL GROUND DISTURBANCES. ANY HDD DRILLING FLUID INADVERTENTLY DISCHARGED MUST BE REMOVED FROM AGRICULTURAL AREAS. NARROW OPEN TRENCHES LESS THAN 25 FEET LONG INVOLVING A SINGLE DIRECTLY BURIED CONDUCTOR OR CONDUIT (AS REQUIRED) TO CONNECT SHORT ROWS WITHIN THE ARRAY, ARE EXEMPT FROM TOPSOIL SEGREGATION.
- 7. STRIPPED TOPSOIL SHOULD BE STOCKPILED FROM WORK AREAS (E.G. PARKING AREAS, ELECTRIC CONDUCTOR TRENCHES, ALONG ACCESS ROADS, EQUIPMENT PADS) AND KEPT SEPARATE FROM OTHER EXCAVATED MATERIAL (ROCK AND/OR SUB-SOIL) UNTIL THE COMPLETION OF THE FACILITY FOR FINAL RESTORATION. FOR PROPER TOPSOIL SEGREGATION, AT LEAST 25 FEET OF ADDITIONAL TEMPORARY WORKSPACE (ATWS) MAY BE NEEDEDALONG "OPEN-CUT" UNDERGROUND UTILITY TRENCHES. ALL TOPSOIL WILL BE STOCKPILED AS CLOSE AS IS REASONABLY PRACTICAL TO THE AREA WHERE STRIPPED/REMOVED AND SHALL BE USED FOR RESTORATION ON THAT PARTICULAR AREA. ANY TOPSOIL REMOVED FROM PERMANENTLY CONVERTED AGRICULTURAL AREAS (E.G. PERMANENT ROADS, ETC.) SHOULD BE TEMPORARILY STOCKPILED AND EVENTUALLY SPREAD EVENLY IN ADJACENT AGRICULTURAL AREAS WITHIN THE PROJECT LIMITS OF DISTURBANCE (LOD); HOWEVER NOT TO SIGNIFICANTLY ALTER THE HYDROLOGY OF THE AREA. CLEARLY DESIGNATE TOPSOIL STOCKPILE AREAS AND TOPSOIL DISPOSAL AREAS IN THE FIELD AND ON CONSTRUCTION DRAWINGS; CHANGES OR ADDITIONS TO THE DESIGNATED STOCKPILE AREAS MAY BE NEEDED BASED ON FIELD CONDITIONS IN CONSULTATION WITH THE EM. SUFFICIENT LOD (AS DESIGNATED ON THE SITE PLAN OR BY THE EM) AREA SHOULD BE ALLOTTED TO ALLOW ADEQUATE ACCESS TO THE STOCKPILE FOR TOPSOIL REPLACEMENT DURING RESTORATION.
- (a) TOPSOIL STOCKPILES ON AGRICULTURAL AREAS LEFT IN PLACE PRIOR TO OCTOBER 31ST SHOULD BE SEEDED WITH AROOSTOOK WINTER RYE OR EQUIVALENT AT AN APPLICATION RATE OF THREE BUSHELS (168 LBS.) PER ACRE AND MULCHED WITH STRAW MULCH AT RATE OF TWO TO THREE BALES PER 1000 SQ. FT.
- (b) TOPSOIL STOCKPILES LEFT IN PLACE BETWEEN OCTOBER 31ST AND MAY 31ST SHOULD BE MULCHED WITH STRAW AT A RATE OF TWO TO THREE BALES PER 1000 SQ. FT. TO PREVENT SOIL LOSS.

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Trelina Solar Energy Center

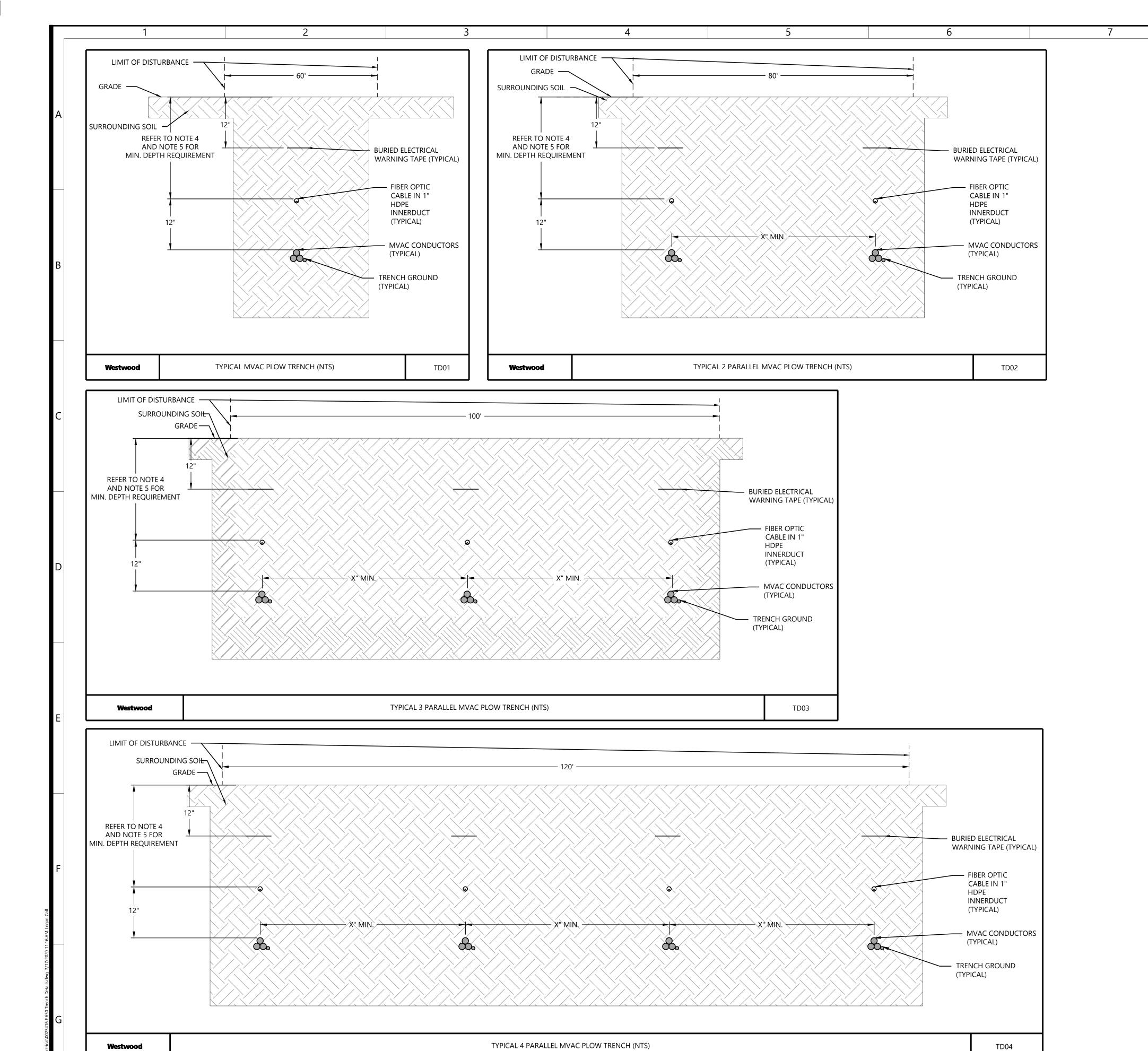
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Trench Details - 1

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NOTES:

- TRENCHES AND BACKFILL SHALL BE FREE OF ROCK, STUMPS, LARGE ROOTS OR ANY OTHER MATERIAL LARGER THAN 3/8" IN DIAMETER THAT CAN CAUSE DAMAGE TO CABLE JACKETS OR INSULATION.
- 2. TYPICAL MVAC TRENCHES SHALL BE MINIMUM 2.5' AWAY FROM PILES. TRENCHES THAT ARE WITHIN 2.5' OF PILES SHALL BE COMPACTED TO 95%.
- 3. BACKFILL LIFTS SHALL NOT EXCEED 12".
- 4. ALL BURIED UTILITIES LOCATED WITHIN THE GENERATION FACILITY'S SECURITY FENCE MUST HAVE A MINIMUM DEPTH OF 36" IF DIRECT BURIED AND MINIMUM DEPTH OF 18" IF BURIED IN A CONDUIT.
- 5. ALL BURIED UTILITIES LOCATED OUTSIDE OF THE GENERATION FACILITY SECURITY FENCE:
 (a) IN CROPLAND, HAYLAND, AND IMPROVED PASTURE BURIED ELECTRIC CONDUCTORS MUST HAVE A MINIMUM DEPTH OF 48" OF COVER, IN AREAS WHERE THE DEPTH OF SOIL BEDROCK IS LESS THAN 48", THE ELECTRIC CONDUCTORS MUST BE BURIED BELOW THE SURFACE OF THE BEDROCK IF FRIABLE/RIPPABLE, OR AS NEAR AS POSSIBLE TO THE SURFACE OF THE BEDROCK.
 (b) IN UNIMPROVED GRAZING AREAS OR ON LAND PERMANENTLY DEVOTED TO PASTURE THE MINIMUM DEPTH OF COVER MUST BE 36".
- (c) WHERE ELECTRICAL CONDUCTORS ARE BURIED DIRECTLY BELOW THE GENERATION FACILITY'S ACCESS ROAD OR IMMEDIATELY ADJACENT (AT ROAD EDGE) TO THE ACCESS ROAD, THE MINIMUM DEPTH OF COVER MUST BE 36" IF DIRECT BURIED AND 24" IF BURIED IN CONDUIT. CONDUCTORS MUST BE CLOSED ENOUGH TO THE ROAD EDGE AS TO BE NOT SUBJECT TO AGRICULTURAL CULTIVATION/SUB-SOILING.
- 6. WHEN OPEN-CUT TRENCHING IS PROPOSED, TOPSOIL STRIPPING IS REQUIRED FROM THE WORK AREA ADJACENT TO THE TRENCH (INCLUDING SEGREGATED STOCKPILE AREAS AND EQUIPMENT ACCESS). TRENCHER OR ROAD SAW LIKE EQUIPMENT ARE NOT ALLOWED FOR TRENCH EXCAVATION IN AGRICULTURAL AREAS, AS THE EQUIPMENT DOES NOT SEGREGATE TOPSOIL FROM SUBSOIL. HORIZONTAL DIRECTIONAL DRILLING (HDD) OR EQUIVALENT INSTALLATION THAT DOES NOT DISRUPT THE SOIL PROFILE, MAY LIMIT AGRICULTURAL GROUND DISTURBANCES. ANY HDD DRILLING FLUID INADVERTENTLY DISCHARGED MUST BE REMOVED FROM AGRICULTURAL AREAS. NARROW OPEN TRENCHES LESS THAN 25 FEET LONG INVOLVING A SINGLE DIRECTLY BURIED CONDUCTOR OR CONDUIT (AS REQUIRED) TO CONNECT SHORT ROWS WITHIN THE ARRAY, ARE EXEMPT FROM TOPSOIL SEGREGATION.
- 7. STRIPPED TOPSOIL SHOULD BE STOCKPILED FROM WORK AREAS (E.G. PARKING AREAS, ELECTRIC CONDUCTOR TRENCHES, ALONG ACCESS ROADS, EQUIPMENT PADS) AND KEPT SEPARATE FROM OTHER EXCAVATED MATERIAL (ROCK AND/OR SUB-SOIL) UNTIL THE COMPLETION OF THE FACILITY FOR FINAL RESTORATION. FOR PROPER TOPSOIL SEGREGATION, AT LEAST 25 FEET OF ADDITIONAL TEMPORARY WORKSPACE (ATWS) MAY BE NEEDEDALONG "OPEN-CUT" UNDERGROUND UTILITY TRENCHES. ALL TOPSOIL WILL BE STOCKPILED AS CLOSE AS IS REASONABLY PRACTICAL TO THE AREA WHERE STRIPPED/REMOVED AND SHALL BE USED FOR RESTORATION ON THAT PARTICULAR AREA. ANY TOPSOIL REMOVED FROM PERMANENTLY CONVERTED AGRICULTURAL AREAS (E.G. PERMANENT ROADS, ETC.) SHOULD BE TEMPORARILY STOCKPILED AND EVENTUALLY SPREAD EVENLY IN ADJACENT AGRICULTURAL AREAS WITHIN THE PROJECT LIMITS OF DISTURBANCE (LOD); HOWEVER NOT TO SIGNIFICANTLY ALTER THE HYDROLOGY OF THE AREA. CLEARLY DESIGNATE TOPSOIL STOCKPILE AREAS AND TOPSOIL DISPOSAL AREAS IN THE FIELD AND ON CONSTRUCTION DRAWINGS; CHANGES OR ADDITIONS TO THE DESIGNATED STOCKPILE AREAS MAY BE NEEDED BASED ON FIELD CONDITIONS IN CONSULTATION WITH THE EM. SUFFICIENT LOD (AS DESIGNATED ON THE SITE PLAN OR BY THE EM) AREA SHOULD BE ALLOTTED TO ALLOW ADEQUATE ACCESS TO THE STOCKPILE FOR TOPSOIL REPLACEMENT DURING RESTORATION.

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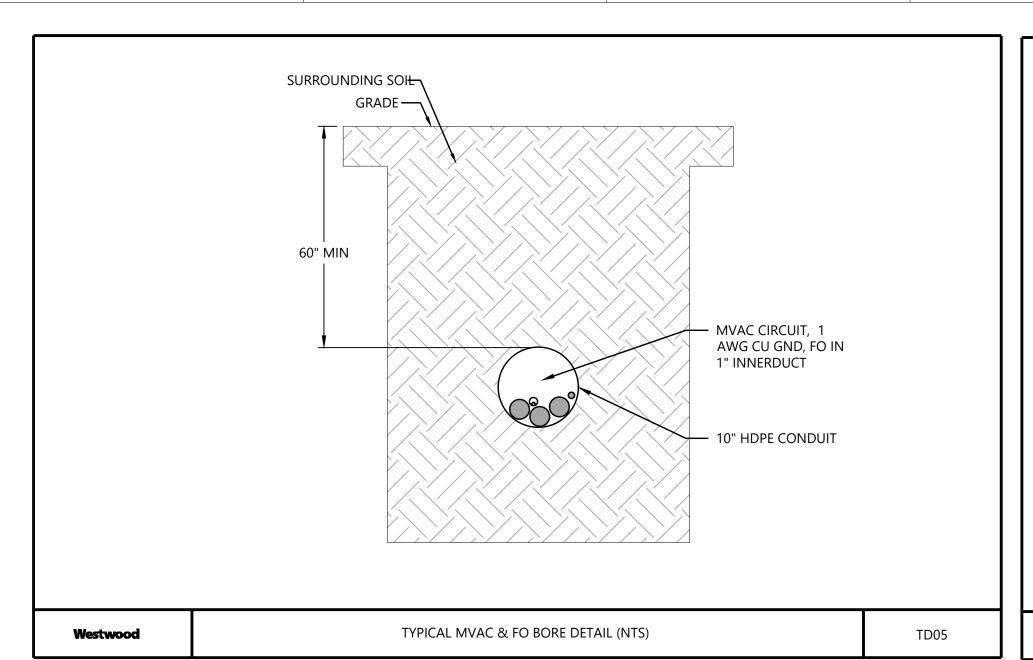
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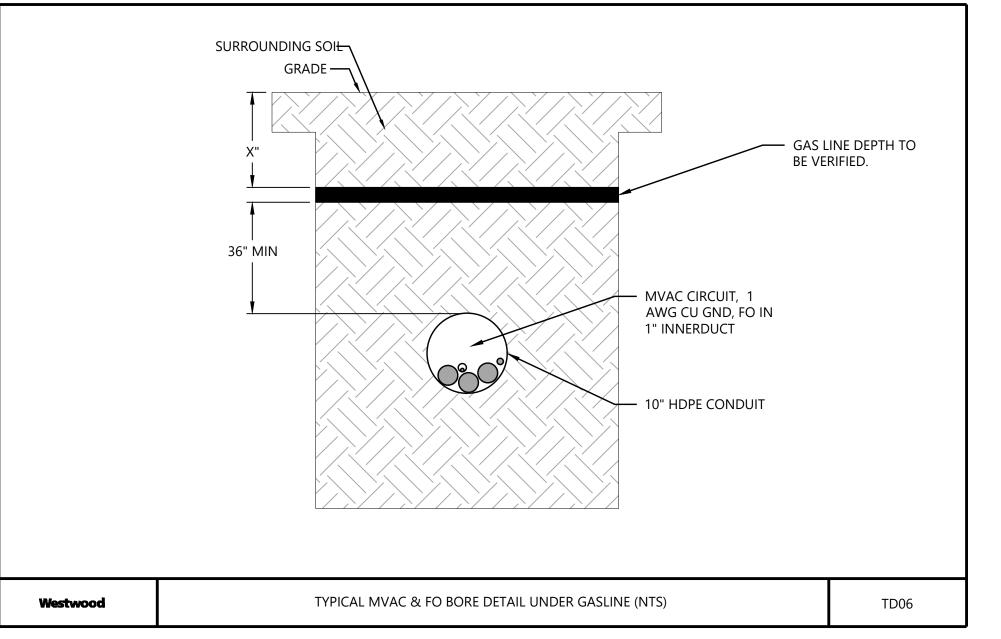
Trench Details - 2

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NOTES:

- 1. VERIFY UTILITY LOCATIONS AND REQUIRED CLEARANCE.
- VERIFY REQUIRED BORE DEPTH.
- 3. TRANSITION STATION, GRADE, AND RADIUS MAY BE ADJUSTED IN FIELD WITH OWNERS APPROVAL.
- 4. PRIOR TO THE START OF EXCAVATION, MARK-OUT THE PLANNED WORK AREA AND NOTIFY DIG-SAFE AND ANY NON-PARTICIPATING UTILITIES OF THE PLANNED WORK LOCATION.
- 5. ALL UTILITIES IN THE VICINITY OF EACH CROSSING SHALL BE PHYSICALLY LOCATED BY TEST PITTING, BELL HOLING, OR OTHER SUITABLE APPROVED MEANS. MECHANICAL EXCAVATION EQUIPMENT (BACKHOES AND SIMILAR POWER EQUIPMENT) SHALL NOT BE USED FOR TEST PITTING OR BELL HOLING. THE ACTUAL LOCATION AND ELEVATION OF THE EXISTING UTILITY SHALL BE RECORDED AND GEO-REFERENCED. GEO-REFERENCED POSITION/ELEVATION SHALL BE TO SUB-FOOT ACCURACY.

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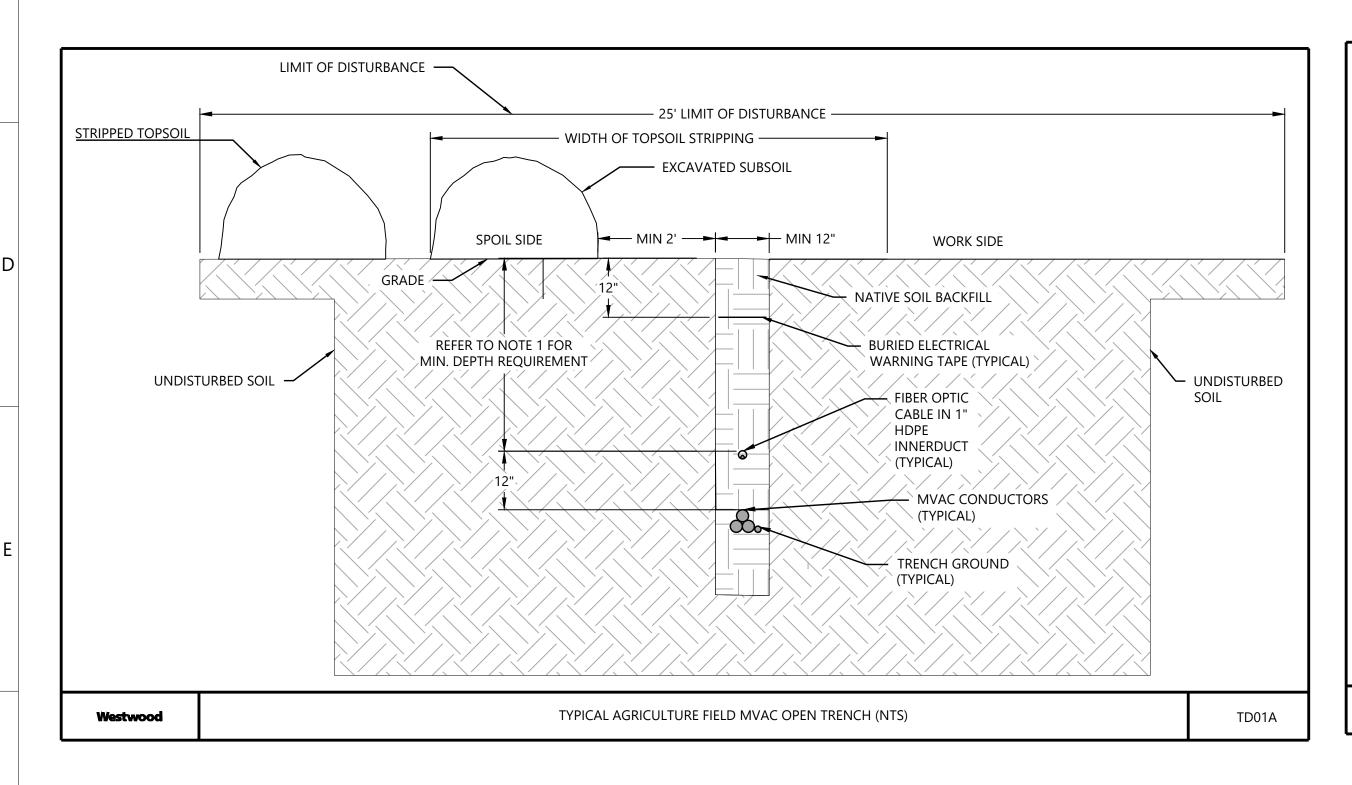
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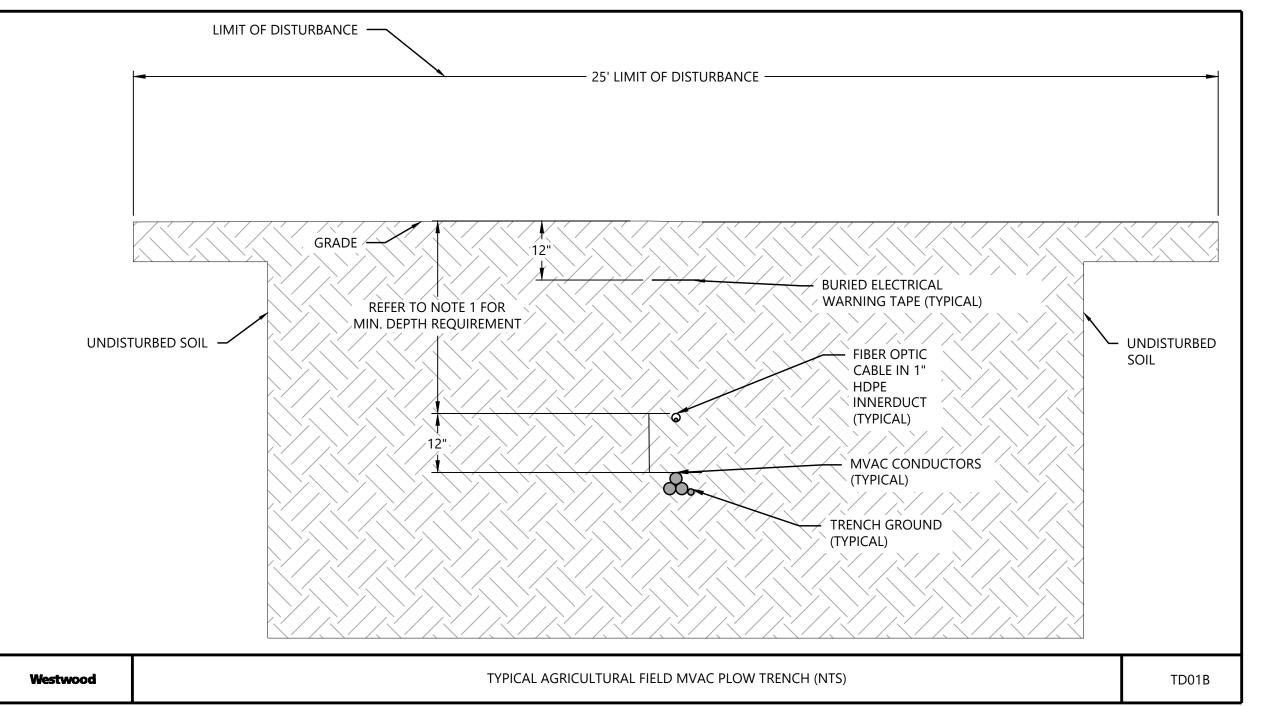
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Town of Waterloo Seneca County, NY

Trench Details - 3

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07/17/2020

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NOTES:

 INSTALL ALL EQUIPMENT AND WIRING IN ACCORDANCE WITH THE NEC, NESC, AND ALL APPLICABLE REQUIREMENTS OF THE LOCAL UTILITY COMPANY AND LOCAL AUTHORITY HAVING JURISDICTION.



 Phone
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 12701 Whitewater Drive, Suite #300

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 Minnetonka, MN 55343

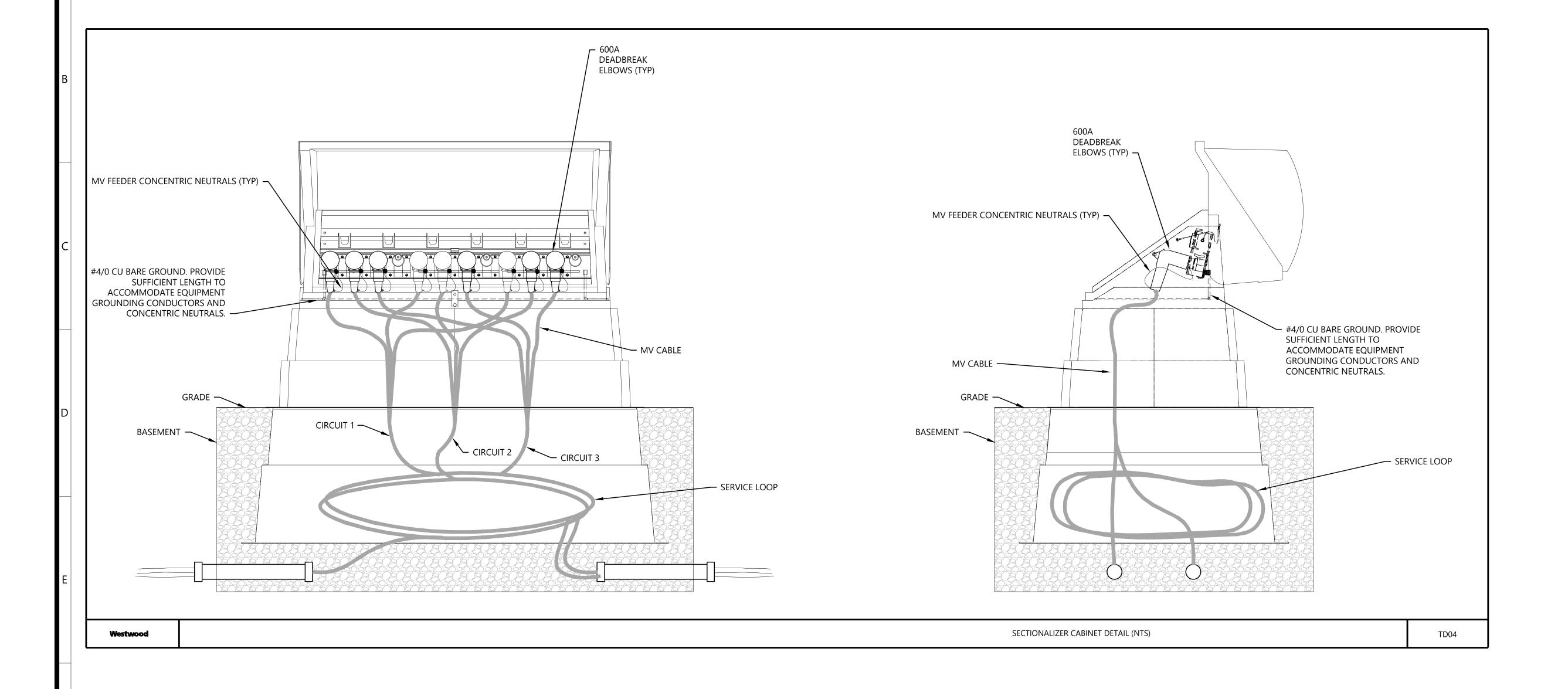
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