

Trelina Solar Energy Center

Town of Waterloo, Seneca County, New York

Civil Construction Plans

Issued for Review

REGIONAL MAP



VICINITY MAP



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

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C.100	Civil Site Plan Sheet Index	C.403	Tree Clearing Plan	C.608	New York Erosion Control Details - 4
C.200	Overall Site Plan	C.404	Tree Clearing Plan	C.609	Construction Notes
C.300	Civil Site Plan	C.405	Tree Clearing Plan	C.610	Tree Clearing Notes
C.301	Civil Site Plan	C.406	Tree Clearing Plan	E.650	Trench Details - 1
C.302	Civil Site Plan	C.407	Tree Clearing Plan	E.651	Trench Details - 2
C.303	Civil Site Plan	C.408	Tree Clearing Plan	E.652	Trench Details - 3
C.304	Civil Site Plan	C.409	Tree Clearing Plan	E.653	Sectionalizer Detail
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		

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PREPARED FOR:



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Trelina Solar Energy Center

Town of Waterloo
Seneca County, NY

Cover

PRELIMINARY
NOT FOR CONSTRUCTION
PURPOSES

DATE: 07/17/2020

SHEET: T.100

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GENERAL NOTES:

SURVEY NOTES:

1. TOPOGRAPHIC INFORMATION PROVIDED BY BERGMANN ASSOCIATES, ARCHITECTS, ENGINEERS, LANDSCAPE ARCHITECTS & SURVEYORS, D.P.C., DATED 04/08/2020.

2. PROPERTY BOUNDARY INFORMATION PROVIDED BY BERGMANN ASSOCIATES, ARCHITECTS, ENGINEERS, LANDSCAPE ARCHITECTS & SURVEYORS, D.P.C.), DATED 03/24/2020.

3. HORIZONTAL DATUM: NAD83 (2011), STATE PLANE COORDINATE SYSTEM, NEW YORK WEST ZONE, US FOOT. VERTICAL DATUM: NAVD88.

4. WETLAND BOUNDARY INFORMATION PROVIDED BY TRC DATED 03/27/2020.

5. EXISTING TREELINE IS APPROXIMATE, BASED ON AERIAL PHOTOGRAPHY.

6. FLOOD ZONE CLASSIFICATION:

SITE LIES WITHIN THE AREAS OF MINIMAL FLOODING (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

B

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.

REMOVAL NOTES:

1. 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.

2. 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.

3. 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.

4. 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.

C

SAFETY NOTE:

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.

EARTHWORK:

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 FOLLOWING:

1. 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.

2. PRIOR TO THE START OF ONSITE EARTHWORK ACTIVITIES, THE CONTRACTOR SHALL ESTABLISH THE CONSTRUCTION WORKSPACE LIMITS AND IDENTIFY AND MARK SENSITIVE RESOURCES.

3. THE CONTRACTOR SHALL INSTALL ALL TEMPORARY EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs) IN ORDER TO PROTECT DOWN GRADIENT AREAS.

4. 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.

D

E

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 USE 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 DISTURB GREATER THAN FIVE (5) ACRES OF SOIL AT ANY ONE TIME:

1. 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.

2. 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.

3. THE OWNER OR OPERATOR SHALL PREPARE A PHASING PLAN THAT DEFINES MAXIMUM DISTURBED AREA PER PHASE AND SHOWS REQUIRED CUTS AND FILLS.

4. THE OWNER OR OPERATOR SHALL INSTALL ANY ADDITIONAL SITE-SPECIFIC PRACTICES NEEDED TO PROTECT WATER QUALITY.

5. THE OWNER OR OPERATOR SHALL INCLUDE THE REQUIREMENTS ABOVE IN THE SWPPP.

F

HORIZONTAL DIRECTIONAL DRILLING TABLE		
LOCATION	LENGTH	CIVIL PLAN SHEET REFERENCE
CROSSING OF WETLAND (W-JB1)	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

G

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

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

CULVERT SCHEDULE					
NAME	INLET	OUTLET	CULVERT SIZE	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 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	C
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	B
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	
Ca	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	C
DuC3	DUNKIRK SILT LOAM, 6 TO 12 PERCENT SLOPES, ERODED	C
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	B
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	SCHOHARIE SILTY CLAY LOAM, 0 TO 3 PERCENT 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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PREPARED FOR:

NEXTERA[®]

ENERGY

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Trelina Solar

Energy Center

Town of Waterloo

Seneca County, NY

General Notes

PRELIMINARY

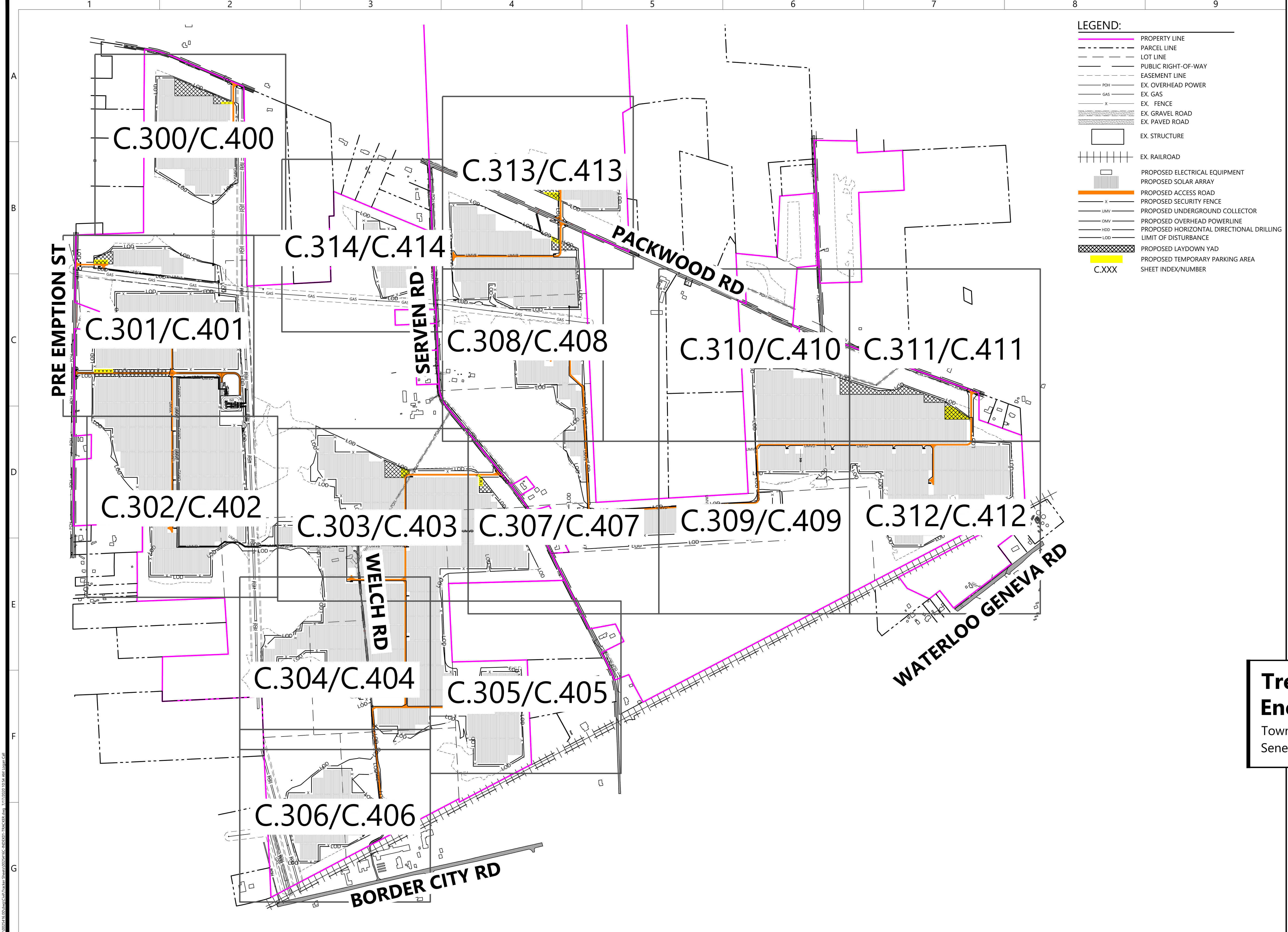
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PURPOSES

DATE: 07/17/2020

SHEET: T.101

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LEGEND:

- PROPERTY LINE
- PARCEL LINE
- LOT LINE
- PUBLIC RIGHT-OF-WAY
- EASEMENT LINE
- POH EX. OVERHEAD POWER
- GAS EX. GAS
- X EX. FENCE
- EX. GRAVEL ROAD
- EX. PAVED ROAD
- EX. STRUCTURE
- EX. RAILROAD
- PROPOSED ELECTRICAL EQUIPMENT
- PROPOSED SOLAR ARRAY
- PROPOSED ACCESS ROAD
- PROPOSED SECURITY FENCE
- PROPOSED UNDERGROUND COLLECTOR
- PROPOSED OVERHEAD POWERLINE
- PROPOSED HORIZONTAL DIRECTIONAL DRILLING
- LIMIT OF DISTURBANCE
- PROPOSED LAYDOWN YARD
- PROPOSED TEMPORARY PARKING AREA
- SHEET INDEX/NUMBER

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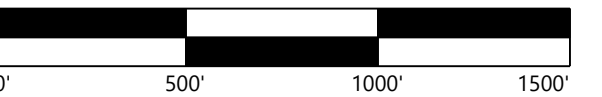
Civil Site Plan Sheet Index

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DATE: 07/17/2020

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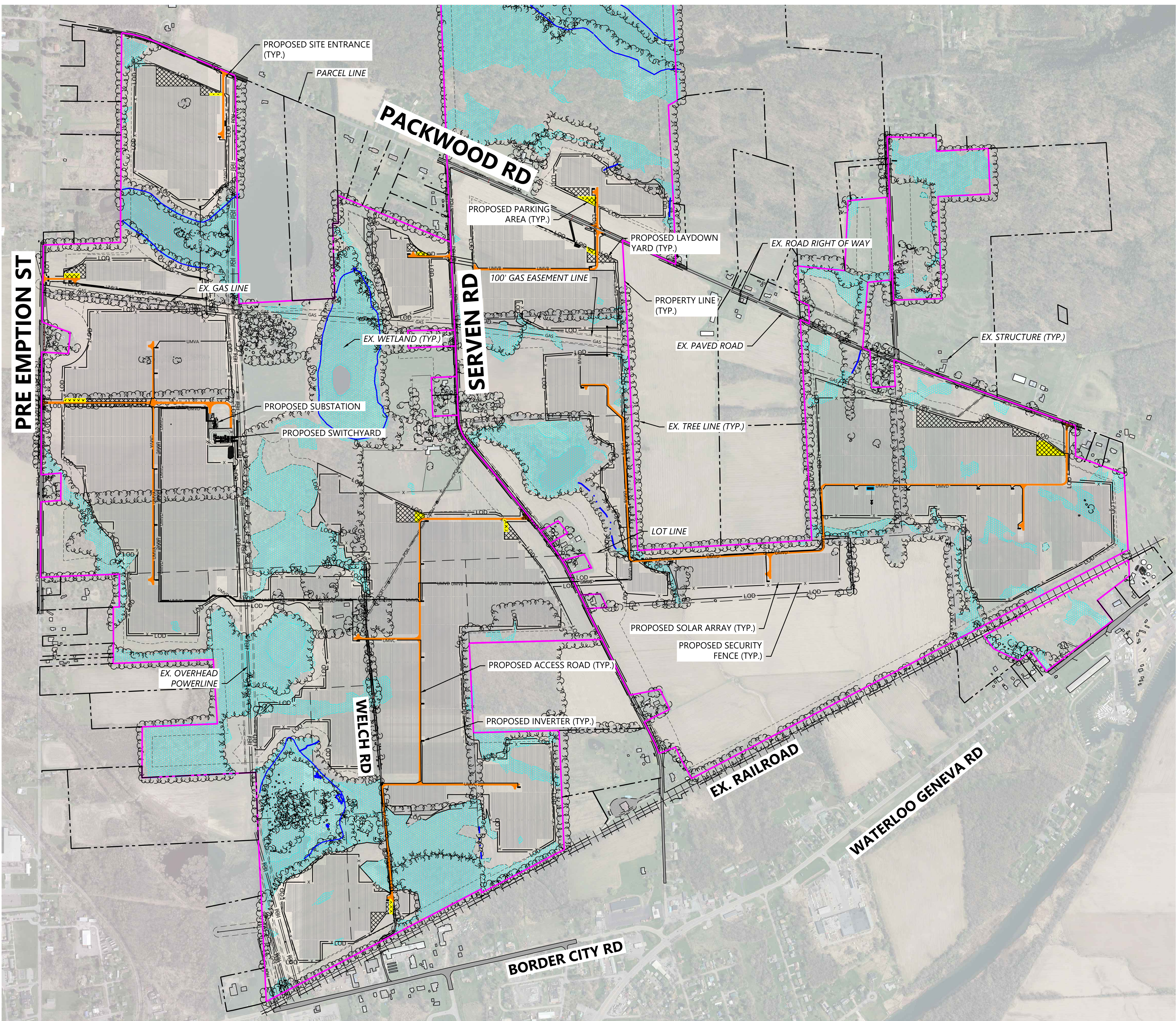
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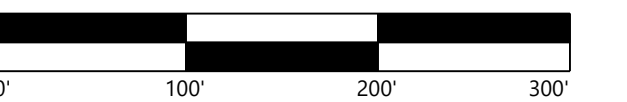


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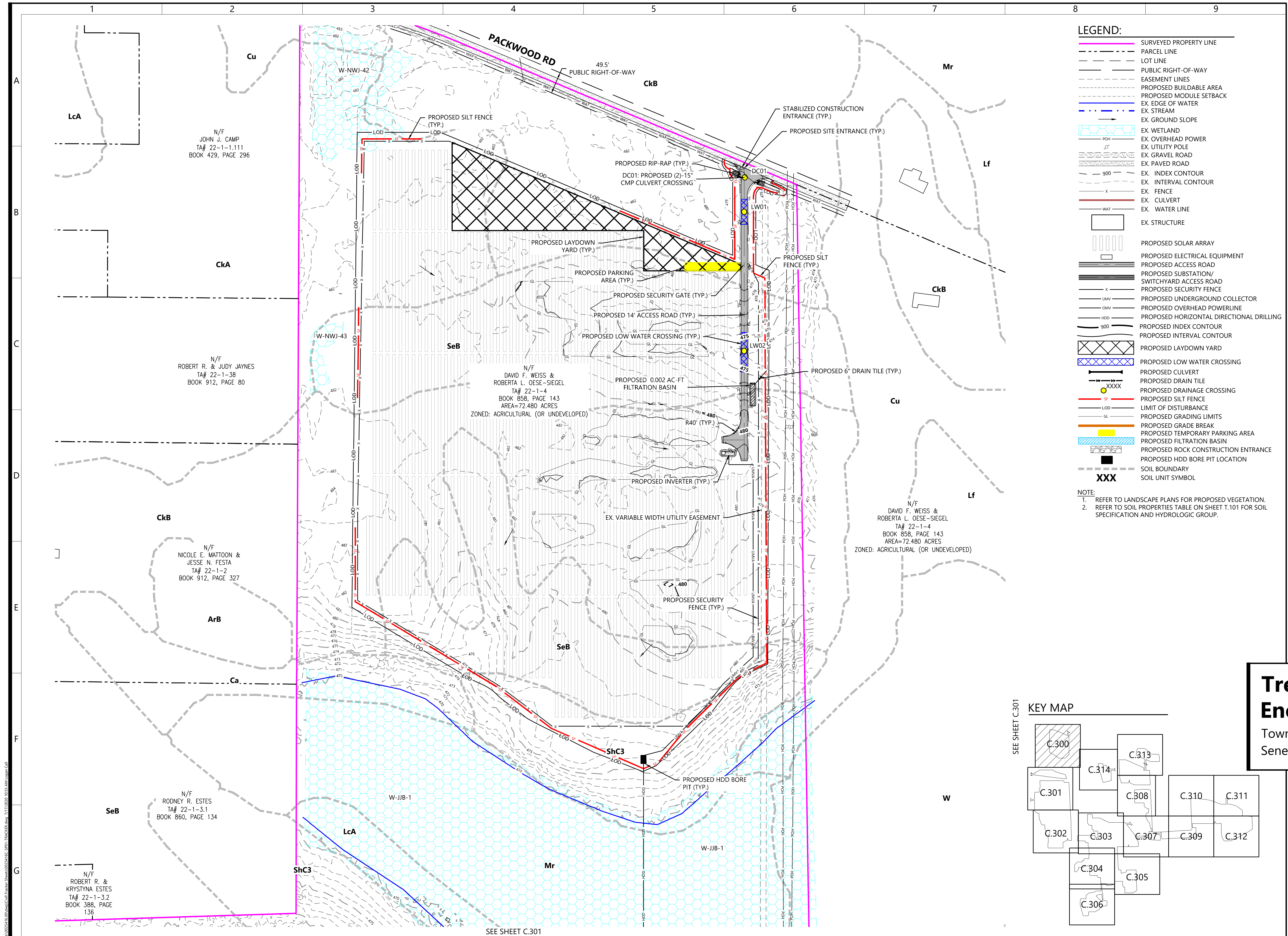


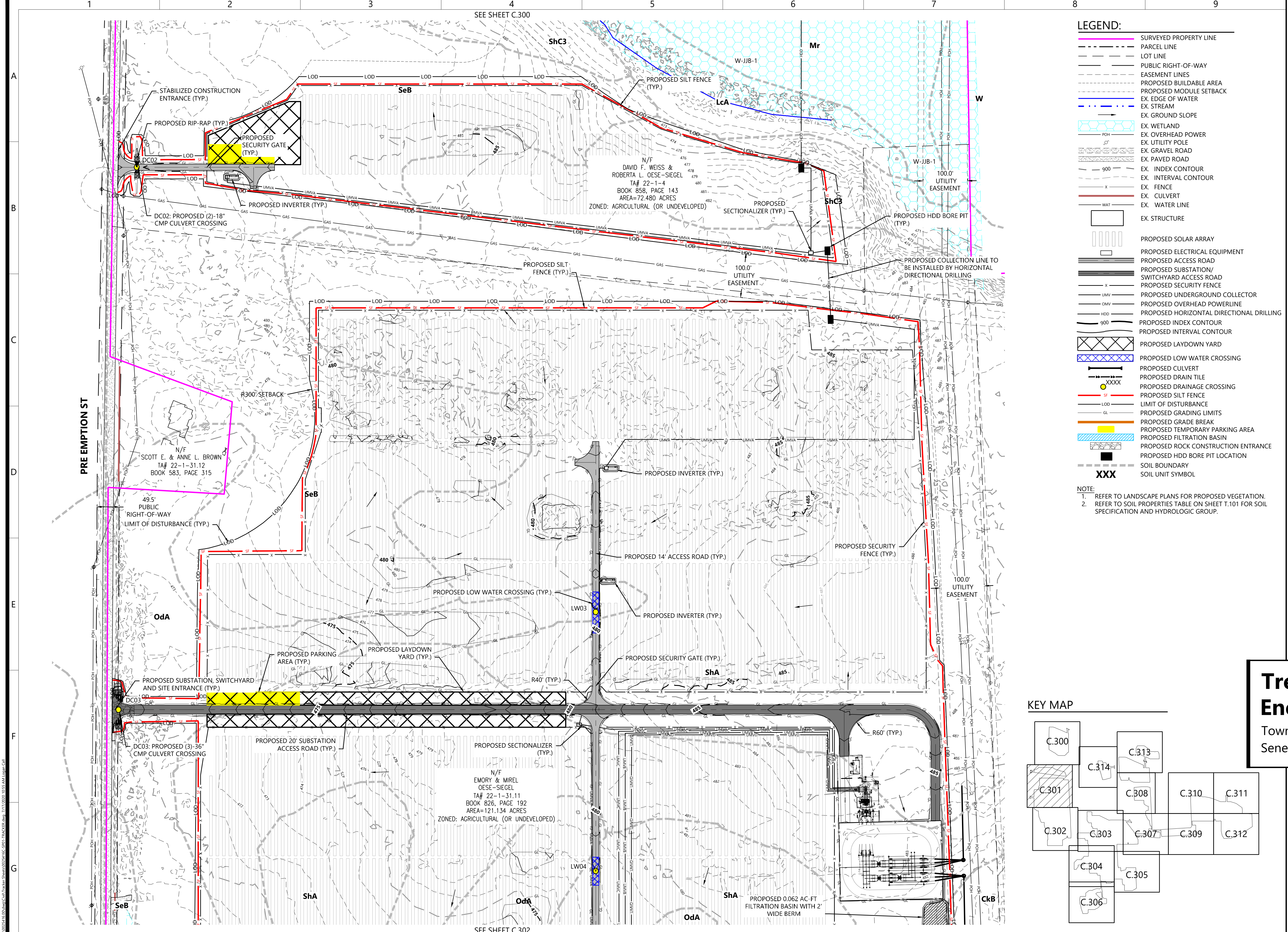


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SHEET: C.300





LEGEND:

- SURVEYED PROPERTY LINE
- PARCEL LINE
- LOT LINE
- PUBLIC RIGHT-OF-WAY
- EASEMENT LINES
- PROPOSED BUILDABLE AREA
- PROPOSED MODULE SETBACK
- EX. EDGE OF WATER
- EX. STREAM
- EX. GROUND SLOPE
- EX. WETLAND
- EX. OVERHEAD POWER
- EX. UTILITY POLE
- EX. GRAVEL ROAD
- EX. PAVED ROAD
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- EX. FENCE
- EX. CULVERT
- EX. WATER LINE
- EX. STRUCTURE
- PROPOSED SOLAR ARRAY
- PROPOSED ELECTRICAL EQUIPMENT
- PROPOSED ACCESS ROAD
- PROPOSED SUBSTATION/ SWITCHYARD ACCESS ROAD
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- PROPOSED INDEX CONTOUR
- PROPOSED INTERVAL CONTOUR
- PROPOSED LAYDOWN YARD
- PROPOSED LOW WATER CROSSING
- PROPOSED CULVERT
- PROPOSED DRAIN TILE
- PROPOSED DRAINAGE CROSSING
- PROPOSED SILT FENCE
- LIMIT OF DISTURBANCE
- PROPOSED GRADING LIMITS
- PROPOSED GRADE BREAK
- PROPOSED TEMPORARY PARKING AREA
- PROPOSED FILTRATION BASIN
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- PROPOSED HDD BORE PIT LOCATION
- SOIL BOUNDARY
- SOIL UNIT SYMBOL

NOTE:

- REFER TO LANDSCAPE PLANS FOR PROPOSED VEGETATION.
- REFER TO SOIL PROPERTIES TABLE ON SHEET T.101 FOR SOIL SPECIFICATION AND HYDROLOGIC GROUP.

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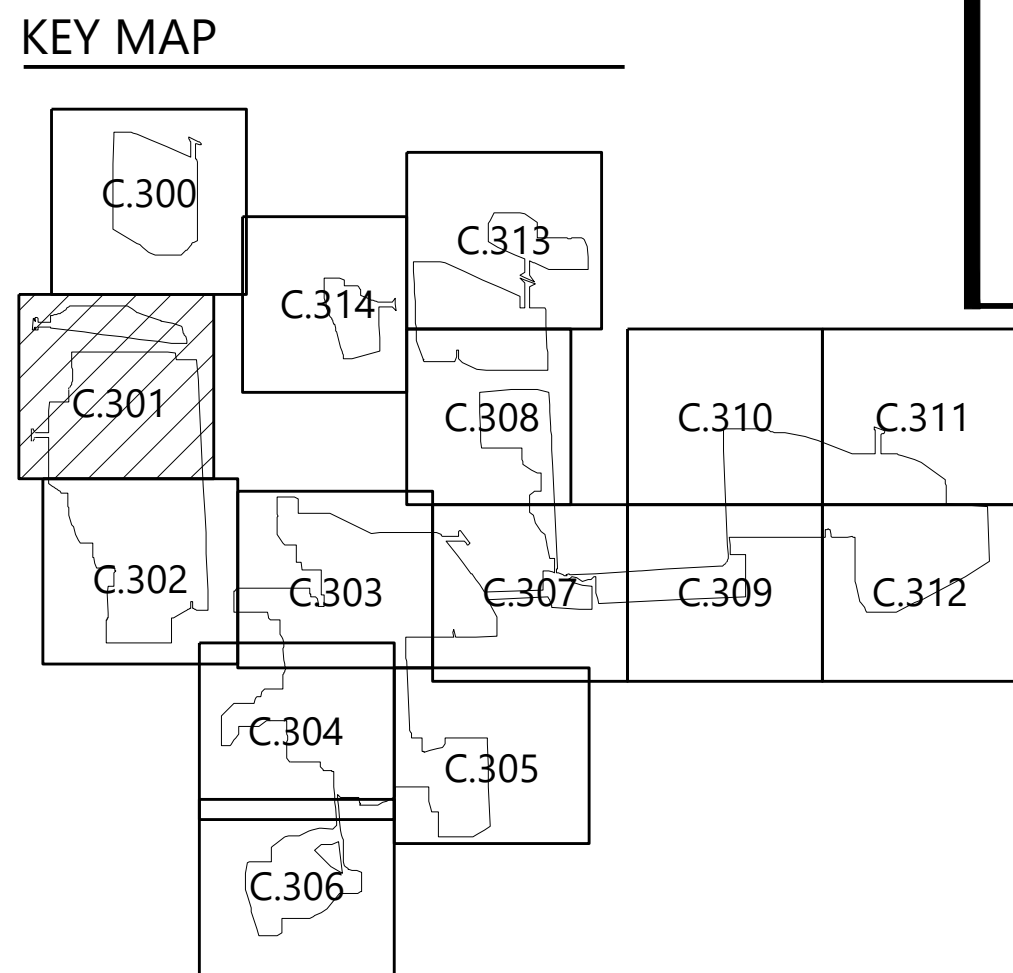
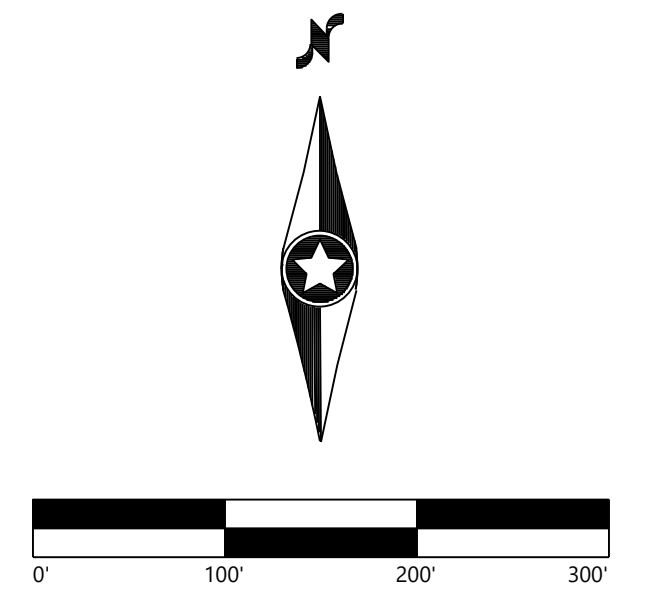
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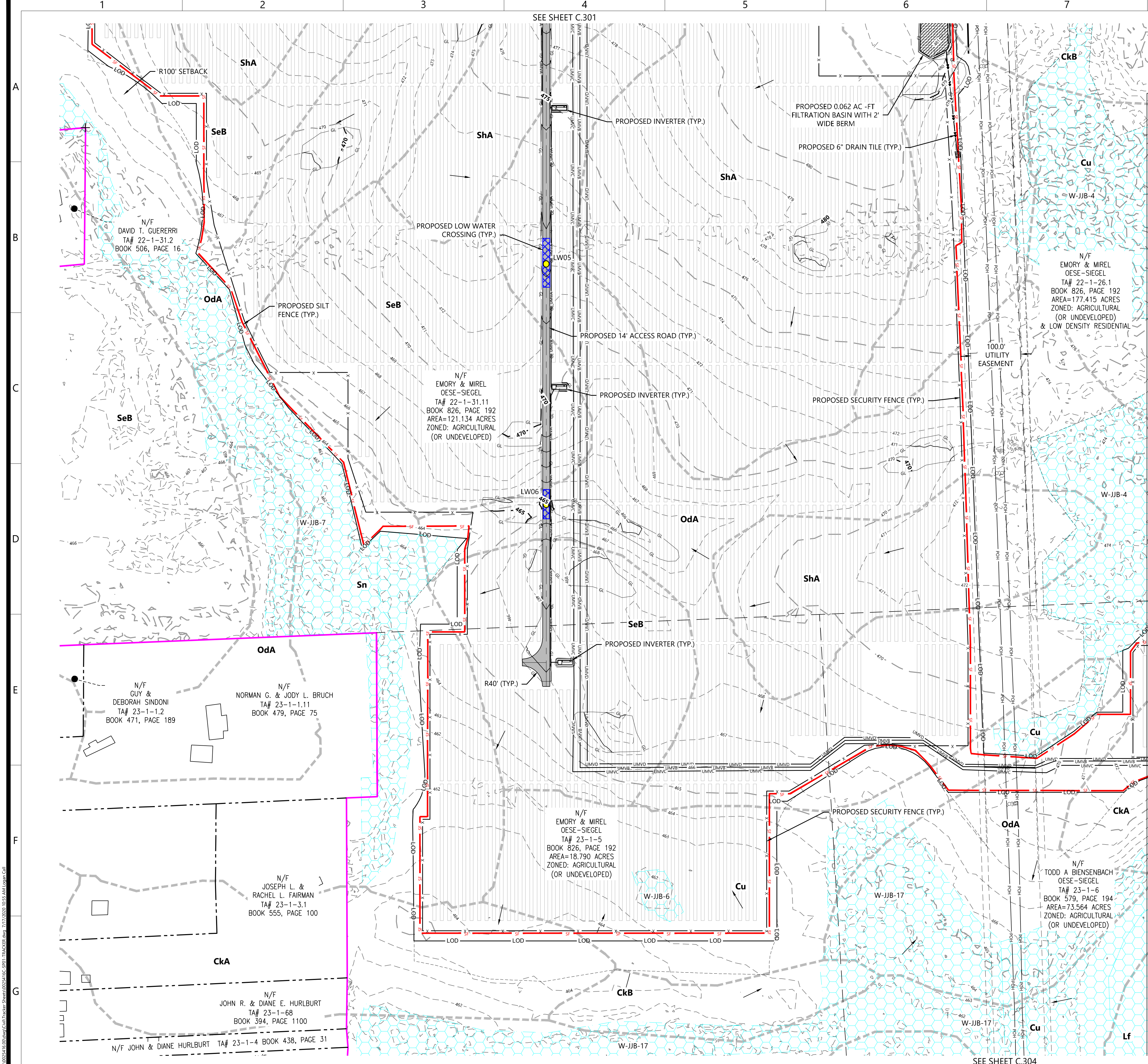
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Seneca County, NY

Civil Site Plan

PRELIMINARY
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DATE: 07/17/2020

SHEET: C.301

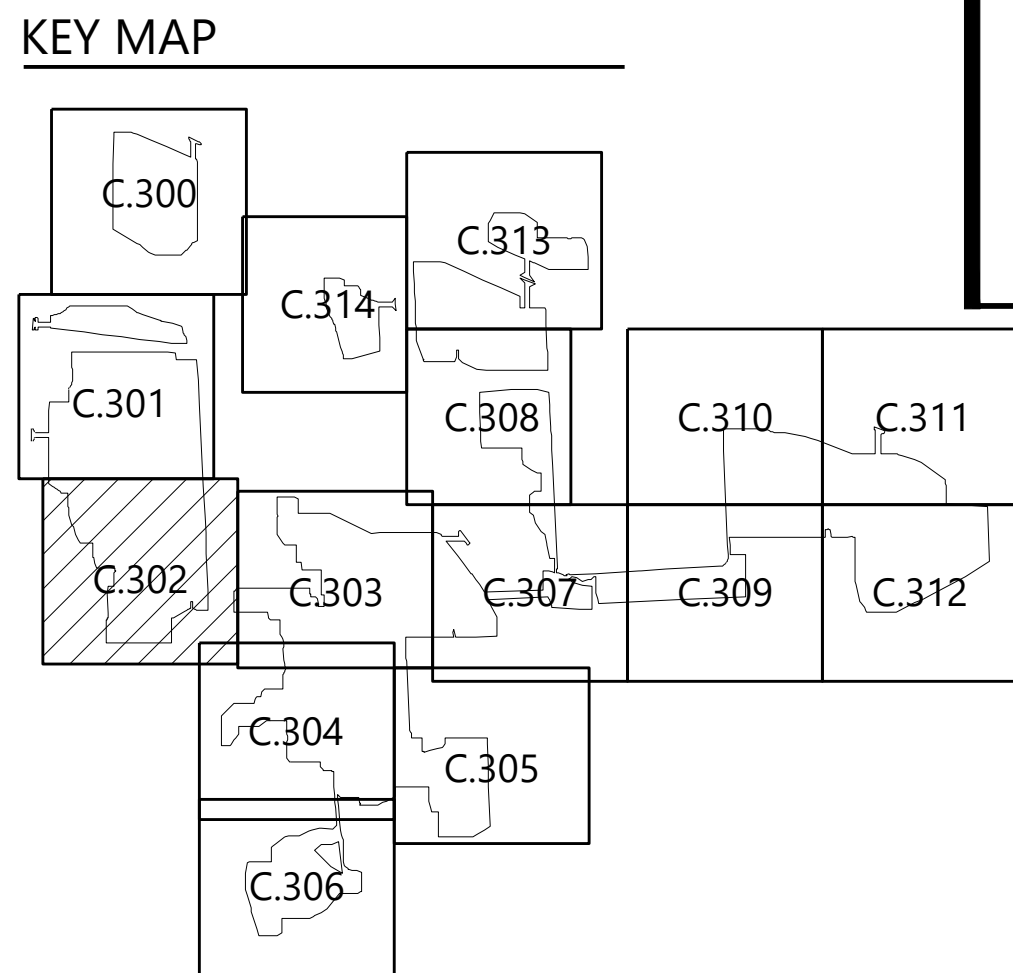


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- PROPOSED BUILDABLE AREA
- PROPOSED MODULE SETBACK
- EX. EDGE OF WATER
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- PROPOSED CULVERT
- PROPOSED DRAIN TILE
- PROPOSED DRAINAGE CROSSING
- PROPOSED SILT FENCE
- LIMIT OF DISTURBANCE
- PROPOSED GRADING LIMITS
- PROPOSED GRADE BREAK
- PROPOSED TEMPORARY PARKING AREA
- PROPOSED FILTRATION BASIN
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- PROPOSED HDD BORE PIT LOCATION
- SOIL BOUNDARY
- SOIL UNIT SYMBOL

NOTE:

- REFER TO LANDSCAPE PLANS FOR PROPOSED VEGETATION.
- REFER TO SOIL PROPERTIES TABLE ON SHEET T.101 FOR SOIL SPECIFICATION AND HYDROLOGIC GROUP.



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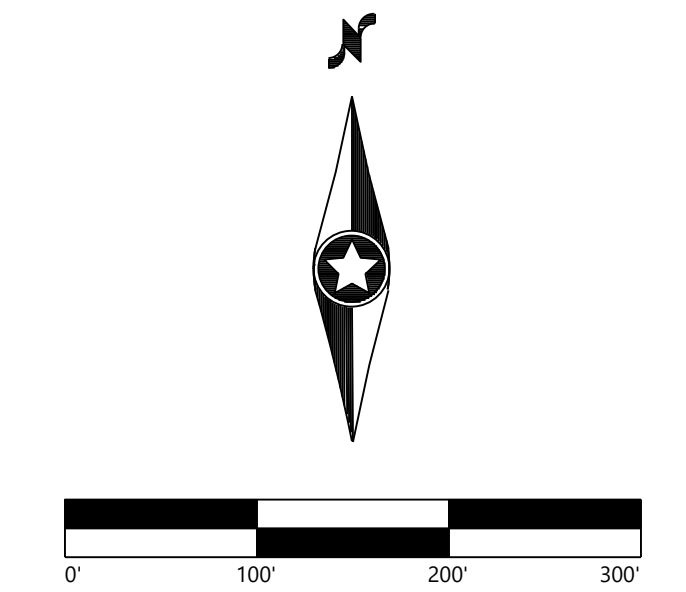
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NEXTERA ENERGY

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

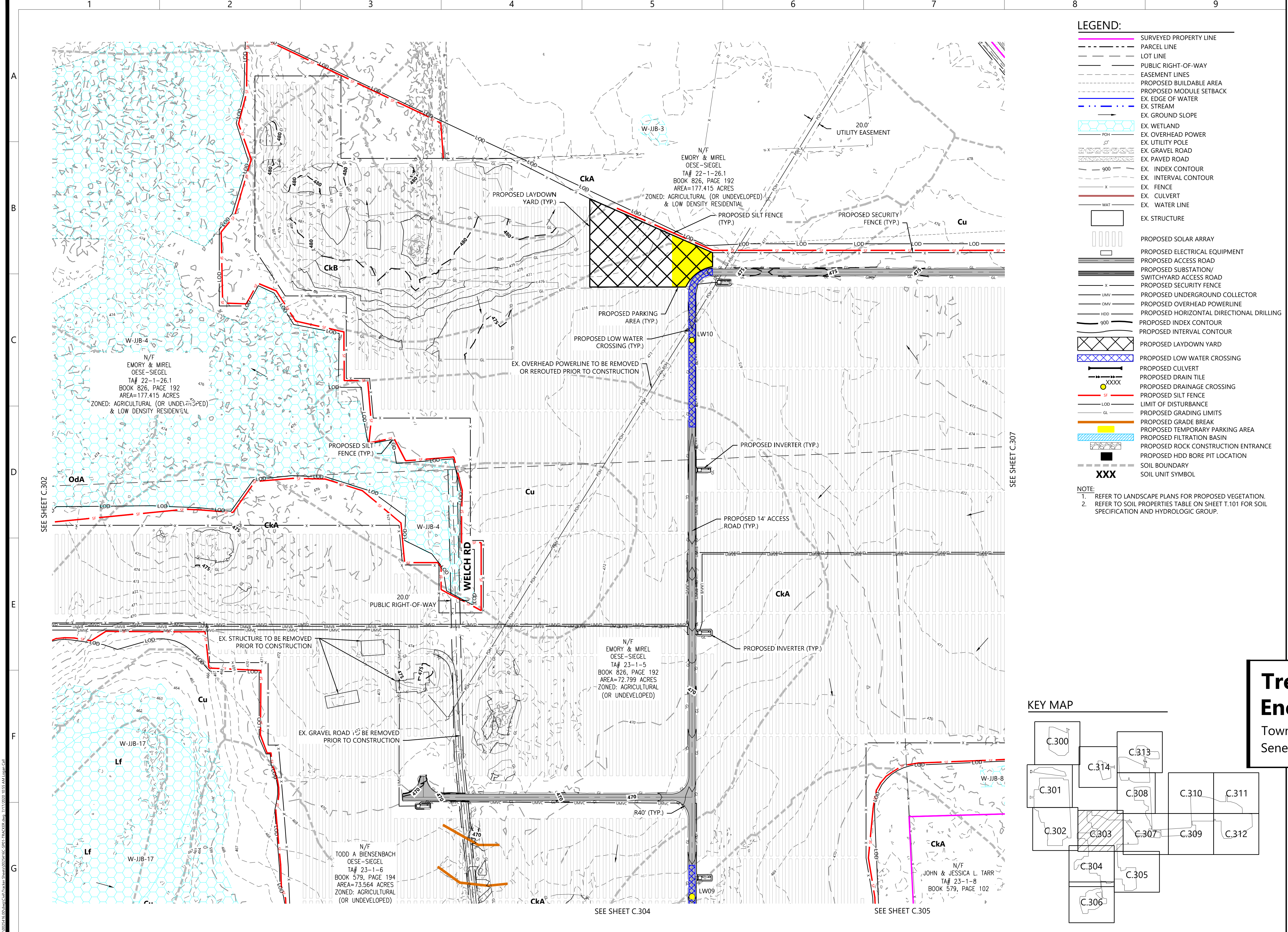
Town of Waterloo
Seneca County, NY

Civil Site Plan

**PRELIMINARY
NOT FOR CONSTRUCTION
PURPOSES**

DATE: 07/17/2020

SHEET: C.302



LEGEND:

- SURVEYED PROPERTY LINE
- PARCEL LINE
- LOT LINE
- PUBLIC RIGHT-OF-WAY
- EASEMENT LINES
- PROPOSED BUILDABLE AREA
- PROPOSED MODULE SETBACK
- EX. EDGE OF WATER
- EX. STREAM
- EX. GROUND SLOPE
- EX. WETLAND
- EX. OVERHEAD POWER
- EX. UTILITY POLE
- EX. GRAVEL ROAD
- EX. PAVED ROAD
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- EX. FENCE
- EX. CULVERT
- EX. WATER LINE
- EX. STRUCTURE
- PROPOSED SOLAR ARRAY
- PROPOSED ELECTRICAL EQUIPMENT
- PROPOSED ACCESS ROAD
- PROPOSED SUBSTATION/ SWITCHYARD ACCESS ROAD
- PROPOSED SECURITY FENCE
- PROPOSED UNDERGROUND COLLECTOR
- PROPOSED OVERHEAD POWERLINE
- PROPOSED HORIZONTAL DIRECTIONAL DRILLING
- PROPOSED INDEX CONTOUR
- PROPOSED INTERVAL CONTOUR
- PROPOSED LAYDOWN YARD
- PROPOSED LOW WATER CROSSING
- PROPOSED CULVERT
- PROPOSED DRAIN TILE
- PROPOSED DRAINAGE CROSSING
- PROPOSED SILT FENCE
- LIMIT OF DISTURBANCE
- PROPOSED GRADING LIMITS
- PROPOSED GRADE BREAK
- PROPOSED TEMPORARY PARKING AREA
- PROPOSED FILTRATION BASIN
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- PROPOSED HDD BORE PIT LOCATION
- SOIL BOUNDARY
- SOIL UNIT SYMBOL

NOTE:

- REFER TO LANDSCAPE PLANS FOR PROPOSED VEGETATION.
- REFER TO SOIL PROPERTIES TABLE ON SHEET T.101 FOR SOIL SPECIFICATION AND HYDROLOGIC GROUP.

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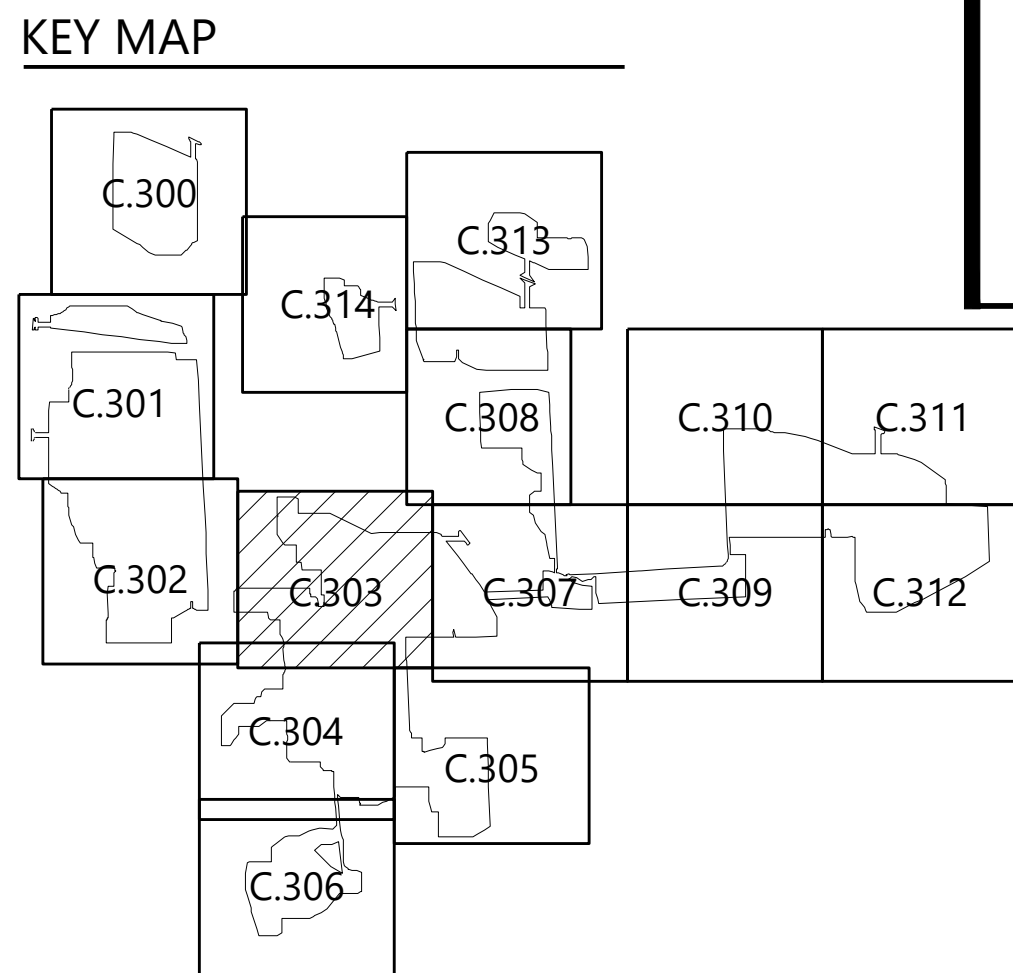
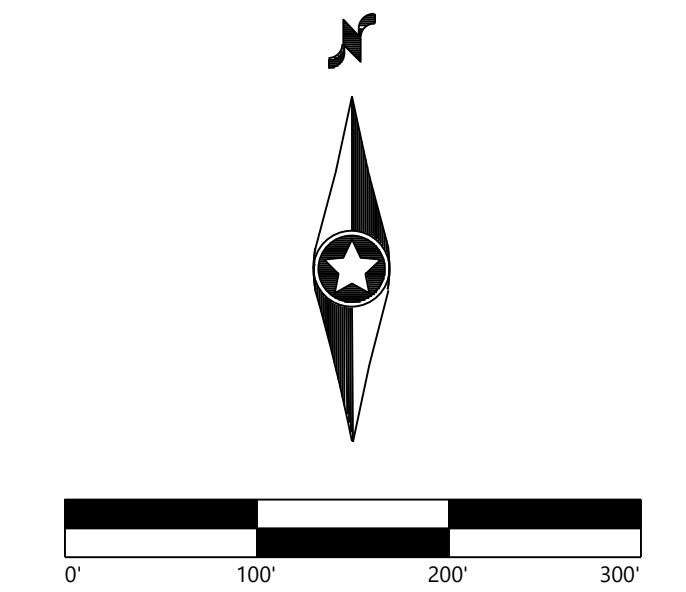
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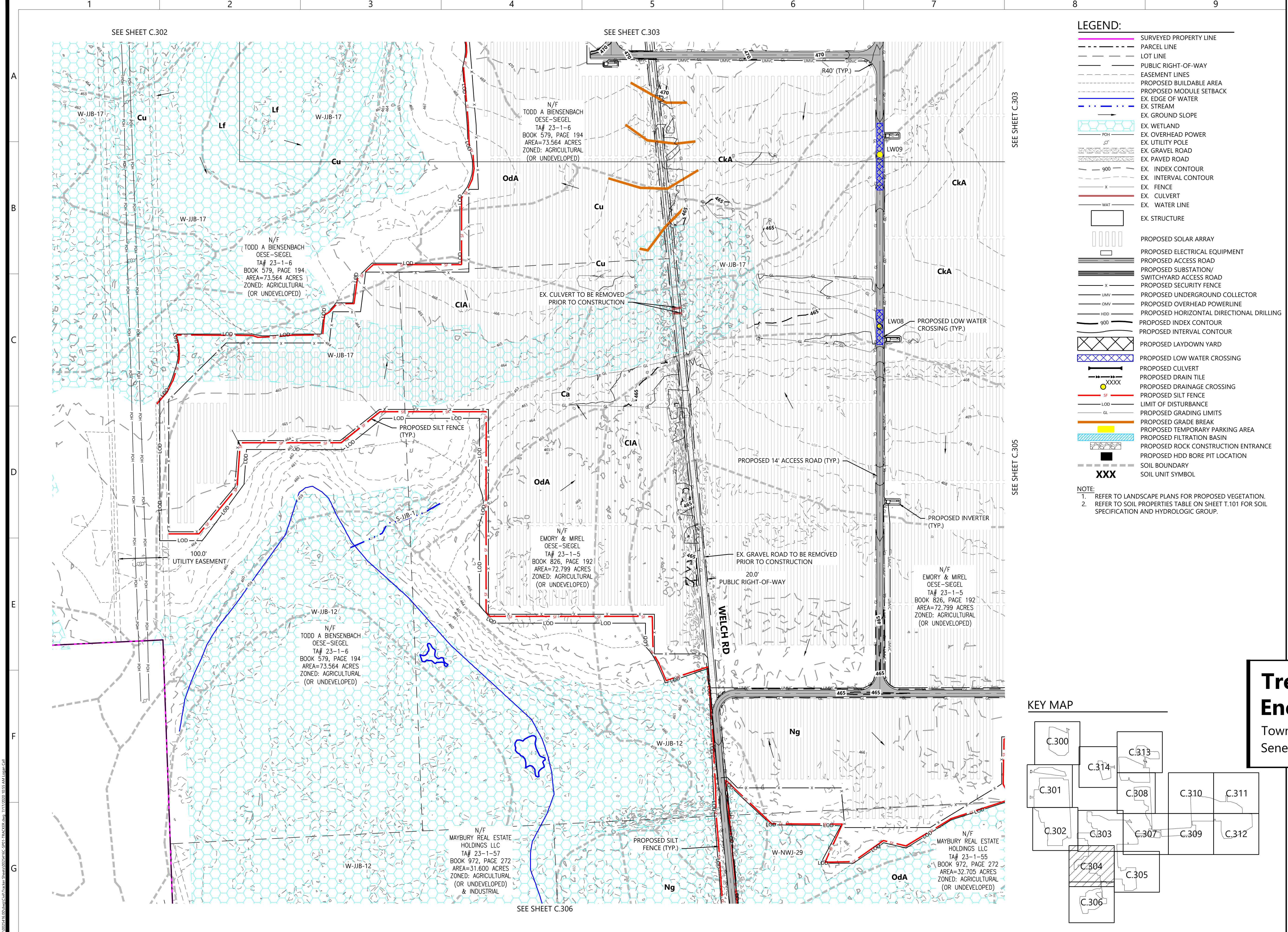
Town of Waterloo
Seneca County, NY

Civil Site Plan

PRELIMINARY
NOT FOR CONSTRUCTION
PURPOSES

DATE: 07/17/2020

SHEET: C.303



LEGEND:

- SURVEYED PROPERTY LINE
- PARCEL LINE
- LOT LINE
- PUBLIC RIGHT-OF-WAY
- EASEMENT LINES
- PROPOSED BUILDABLE AREA
- PROPOSED MODULE SETBACK
- EX. EDGE OF WATER
- EX. STREAM
- EX. GROUND SLOPE
- EX. WETLAND
- EX. OVERHEAD POWER
- EX. UTILITY POLE
- EX. GRAVEL ROAD
- EX. PAVED ROAD
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- EX. FENCE
- EX. CULVERT
- EX. WATER LINE
- EX. STRUCTURE
- PROPOSED SOLAR ARRAY
- PROPOSED ELECTRICAL EQUIPMENT
- PROPOSED ACCESS ROAD
- PROPOSED SUBSTATION/ SWITCHYARD ACCESS ROAD
- PROPOSED SECURITY FENCE
- PROPOSED UNDERGROUND COLLECTOR
- PROPOSED OVERHEAD POWERLINE
- PROPOSED HORIZONTAL DIRECTIONAL DRILLING
- PROPOSED INDEX CONTOUR
- PROPOSED INTERVAL CONTOUR
- PROPOSED LAYDOWN YARD
- PROPOSED LOW WATER CROSSING
- PROPOSED CULVERT
- PROPOSED DRAIN TILE
- PROPOSED DRAINAGE CROSSING
- PROPOSED SILT FENCE
- LIMIT OF DISTURBANCE
- PROPOSED GRADING LIMITS
- PROPOSED GRADE BREAK
- PROPOSED TEMPORARY PARKING AREA
- PROPOSED FILTRATION BASIN
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- PROPOSED HDD BORE PIT LOCATION
- SOIL BOUNDARY
- SOIL UNIT SYMBOL

NOTE:

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- REFER TO SOIL PROPERTIES TABLE ON SHEET T.101 FOR SOIL SPECIFICATION AND HYDROLOGIC GROUP.

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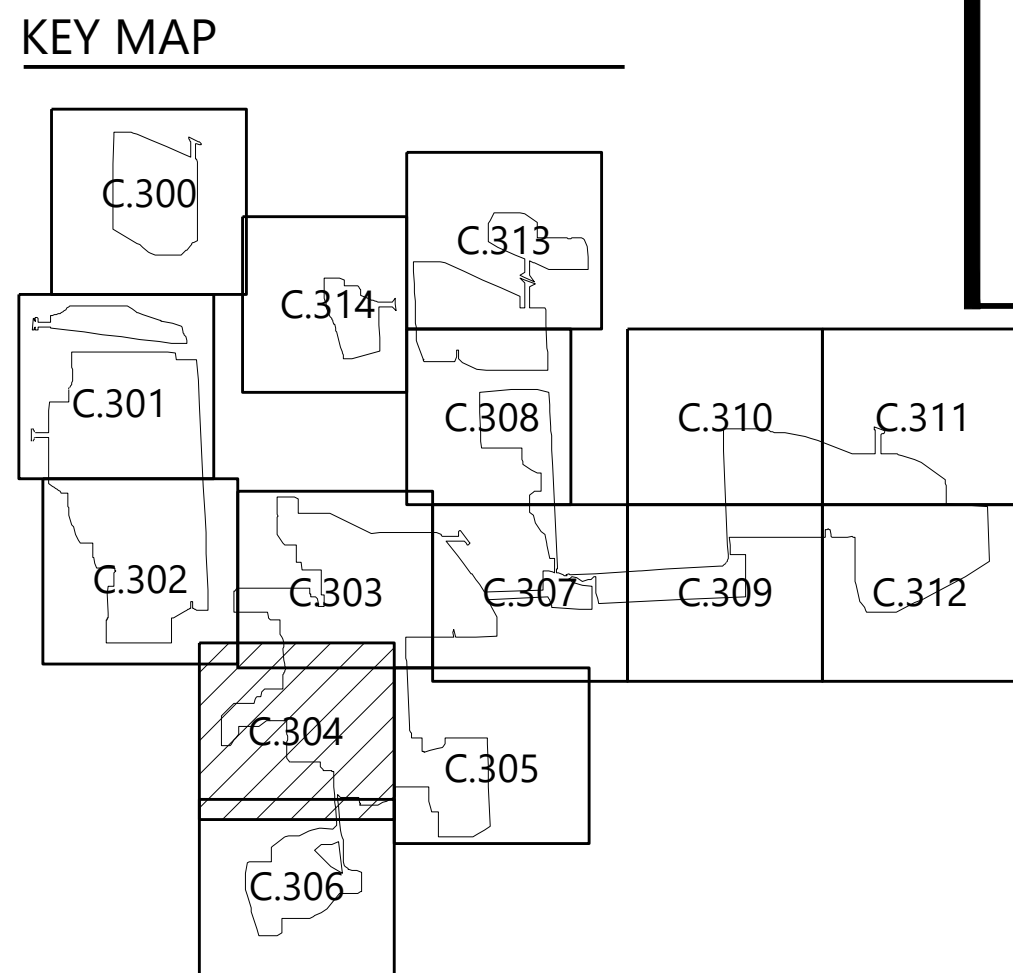
700 Universe Blvd,
Juno Beach, FL 33408

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North Arrow

Scale: 0' 100' 200' 300'



Trelina Solar Energy Center

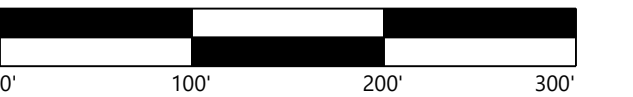
Town of Waterloo
Seneca County, NY

Civil Site Plan

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PURPOSES

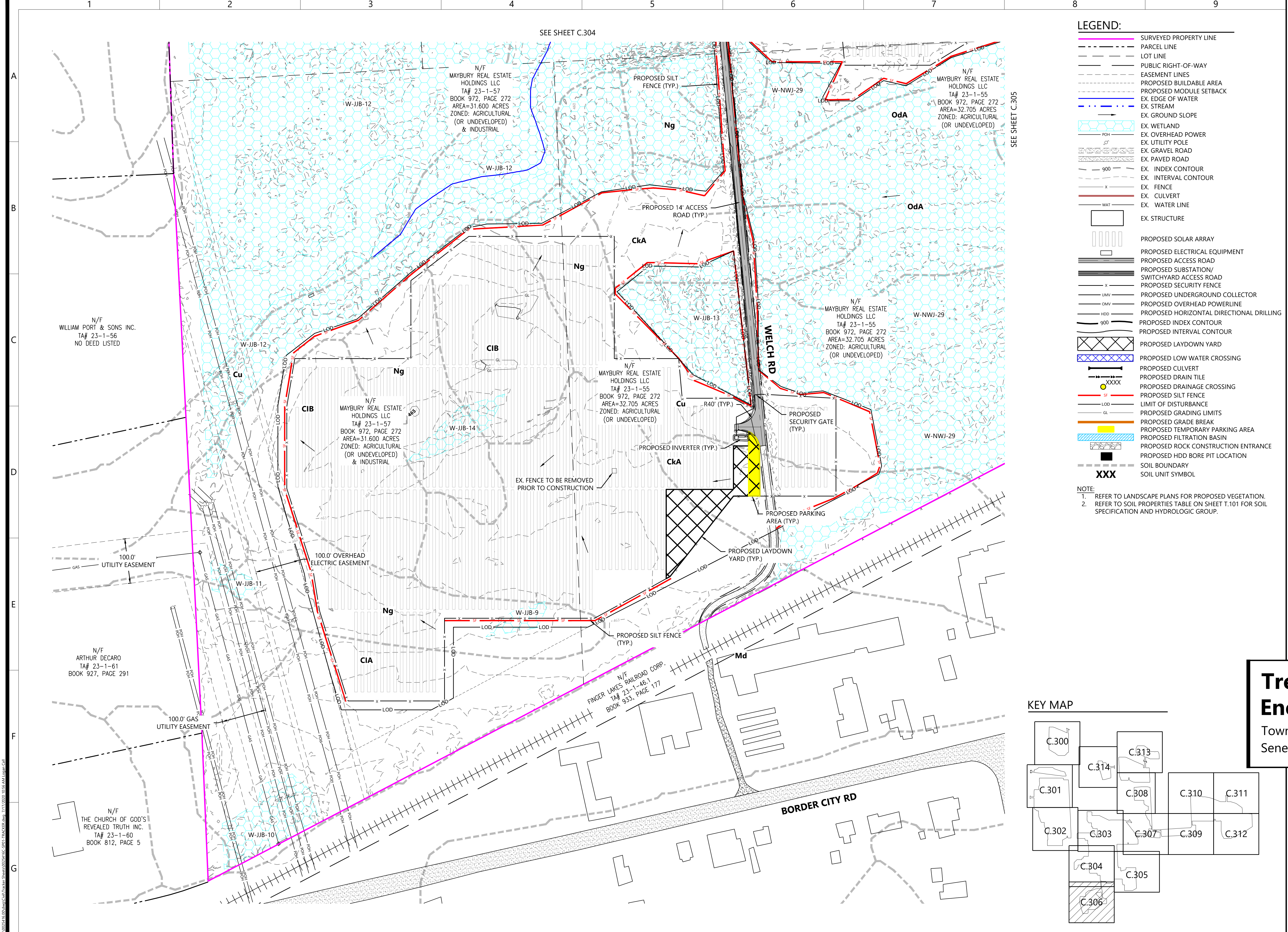
DATE: 07/17/2020

SHEET: C.304



SHEET: C.305



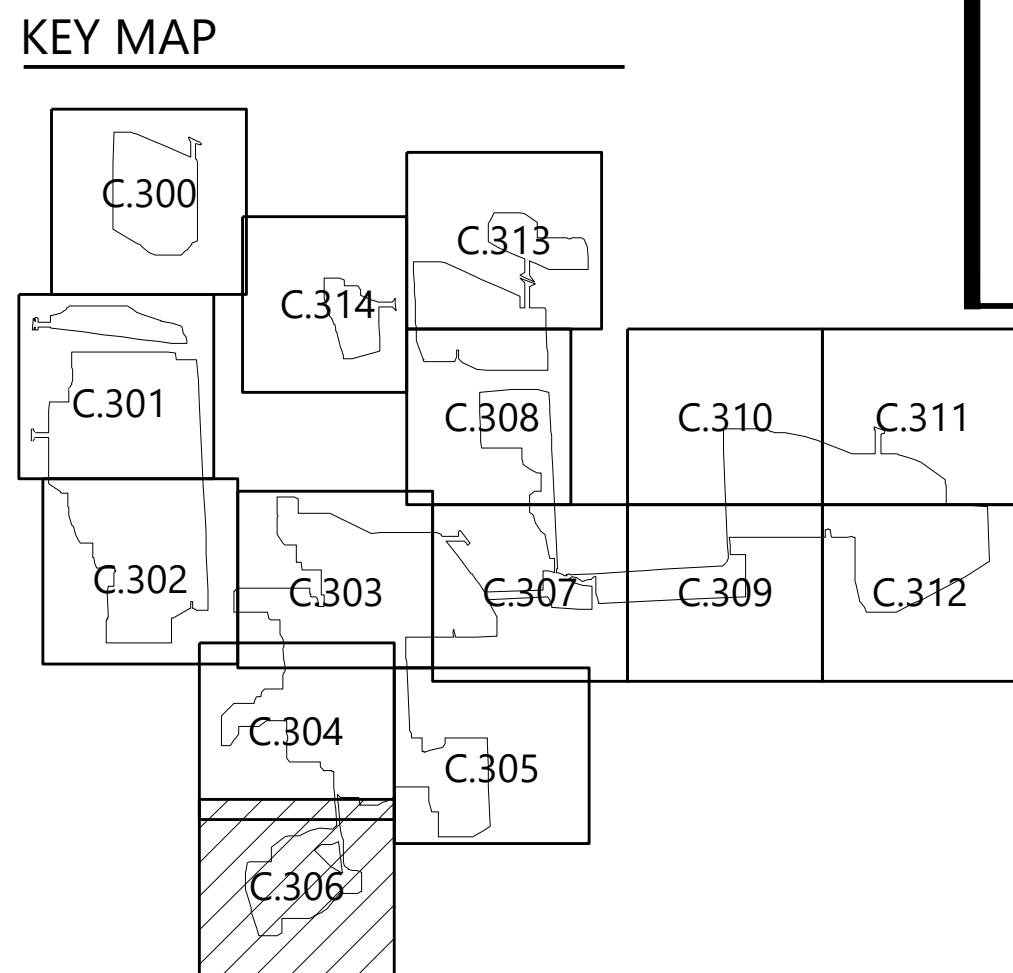


LEGEND:

- SURVEYED PROPERTY LINE
- PARCEL LINE
- LOT LINE
- PUBLIC RIGHT-OF-WAY
- EASEMENT LINES
- PROPOSED BUILDABLE AREA
- PROPOSED MODULE SETBACK
- EX. EDGE OF WATER
- EX. STREAM
- EX. GROUND SLOPE
- EX. WETLAND
- EX. OVERHEAD POWER
- EX. UTILITY POLE
- EX. GRAVEL ROAD
- EX. PAVED ROAD
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- PROPOSED DRAINAGE CROSSING
- PROPOSED SILT FENCE
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- PROPOSED GRADING LIMITS
- PROPOSED GRADE BREAK
- PROPOSED TEMPORARY PARKING AREA
- PROPOSED FILTRATION BASIN
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- PROPOSED HDD BORE PIT LOCATION
- SOIL BOUNDARY
- SOIL UNIT SYMBOL

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Trelina Solar Energy Center

Town of Waterloo
Seneca County, NY

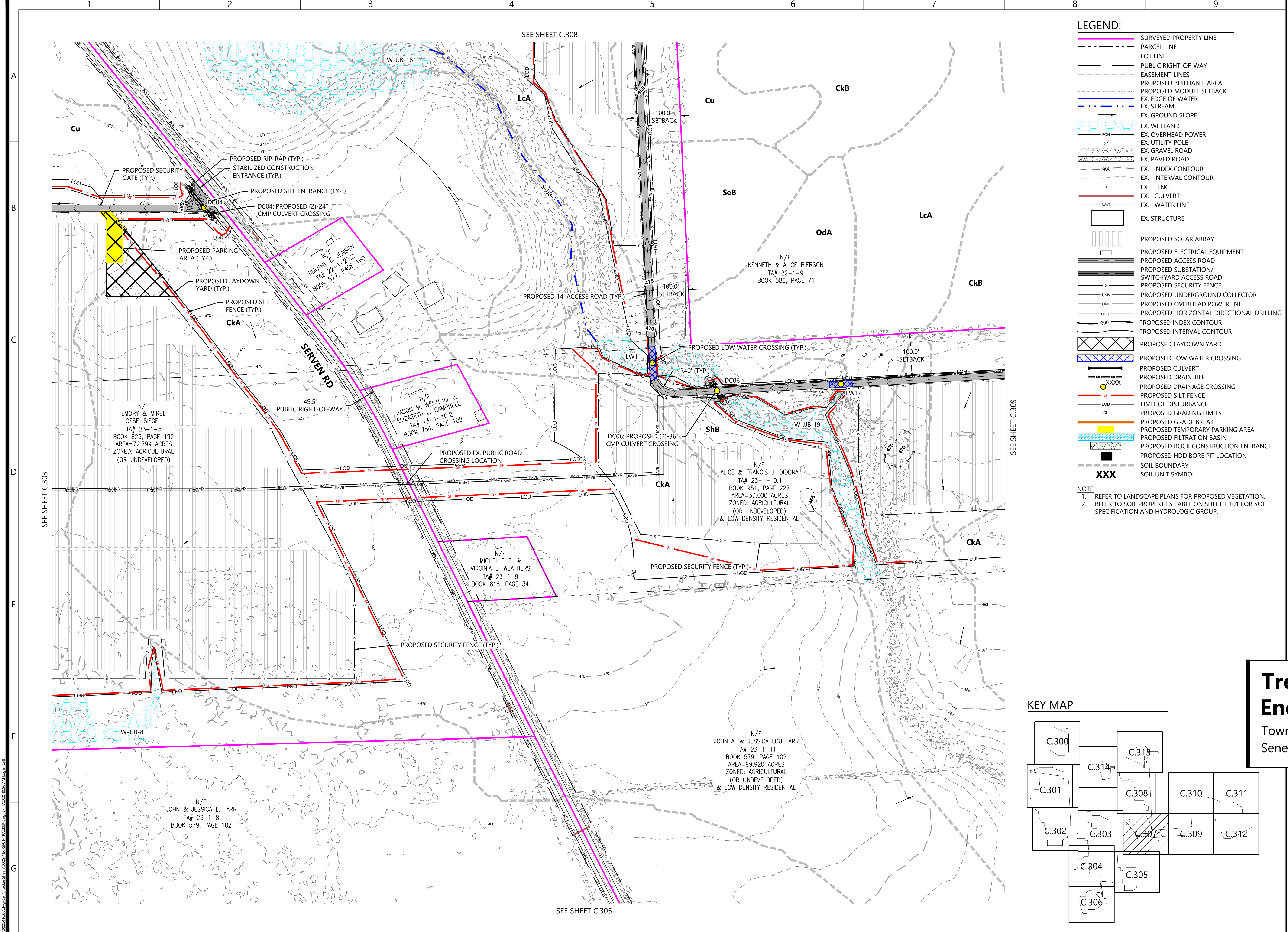
Civil Site Plan

PRELIMINARY
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PURPOSES

DATE: 07/17/2020

SHEET: C.306

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Trelina Solar Energy Center

Town of Waterloo
Seneca County, NY

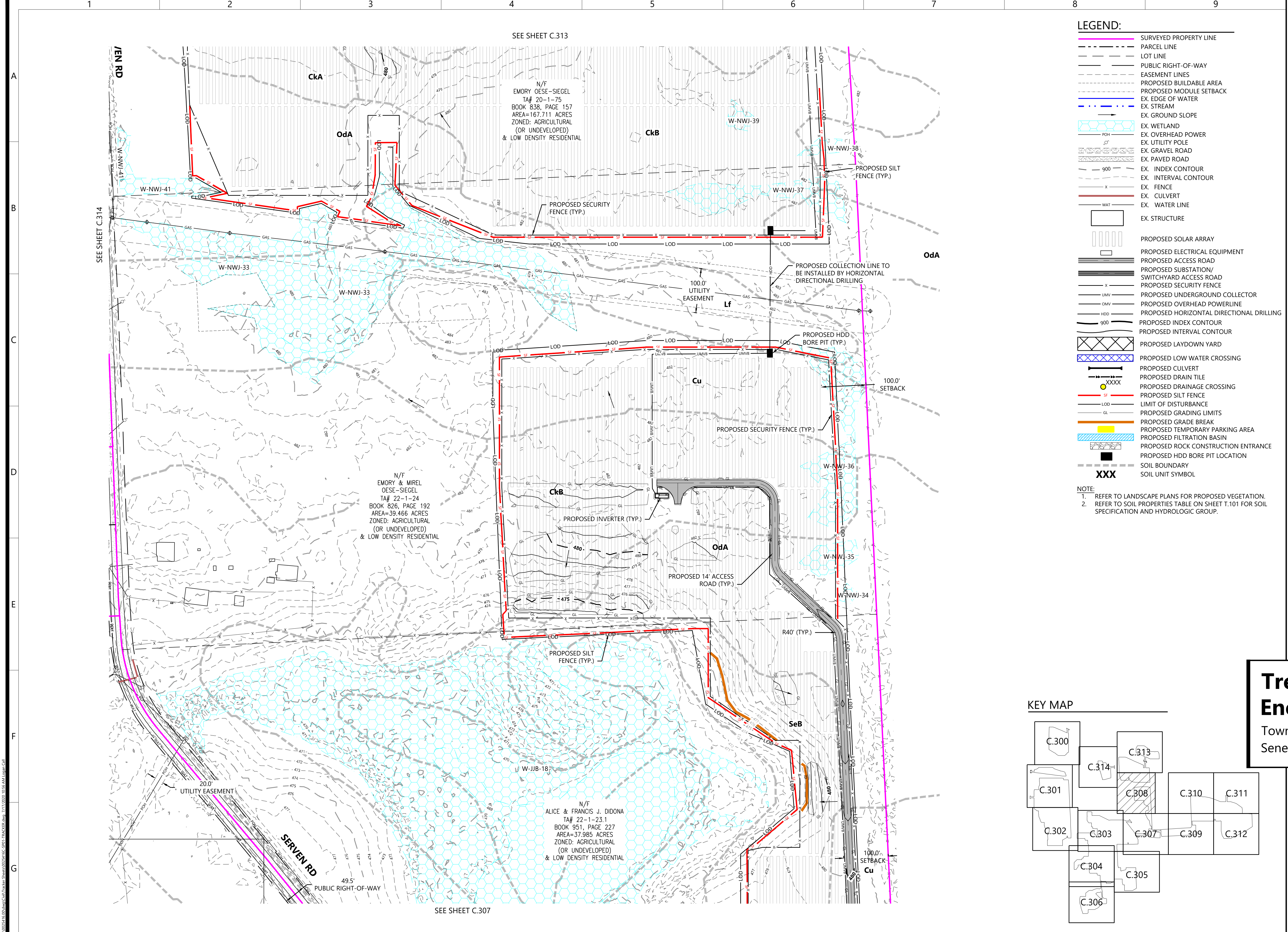
Civil Site Plan

PRELIMINARY
NOT FOR CONSTRUCTION
PURPOSES

DATE: 07/17/2020

SHEET: C.307

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LEGEND:

- SURVEYED PROPERTY LINE
- PARCEL LINE
- LOT LINE
- PUBLIC RIGHT-OF-WAY
- EASEMENT LINES
- PROPOSED BUILDABLE AREA
- PROPOSED MODULE SETBACK
- EX. EDGE OF WATER
- EX. STREAM
- EX. GROUND SLOPE
- EX. WETLAND
- EX. OVERHEAD POWER
- EX. UTILITY POLE
- EX. GRAVEL ROAD
- EX. PAVED ROAD
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- EX. FENCE
- EX. CULVERT
- EX. WATER LINE
- EX. STRUCTURE
- PROPOSED SOLAR ARRAY
- PROPOSED ELECTRICAL EQUIPMENT
- PROPOSED ACCESS ROAD
- PROPOSED SUBSTATION/ SWITCHYARD ACCESS ROAD
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- PROPOSED INDEX CONTOUR
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- PROPOSED LAYDOWN YARD
- PROPOSED LOW WATER CROSSING
- PROPOSED CULVERT
- PROPOSED DRAIN TILE
- PROPOSED DRAINAGE CROSSING
- PROPOSED SILT FENCE
- LIMIT OF DISTURBANCE
- PROPOSED GRADING LIMITS
- PROPOSED GRADE BREAK
- PROPOSED TEMPORARY PARKING AREA
- PROPOSED FILTRATION BASIN
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- PROPOSED HDD BORE PIT LOCATION
- SOIL BOUNDARY
- SOIL UNIT SYMBOL

NOTE:

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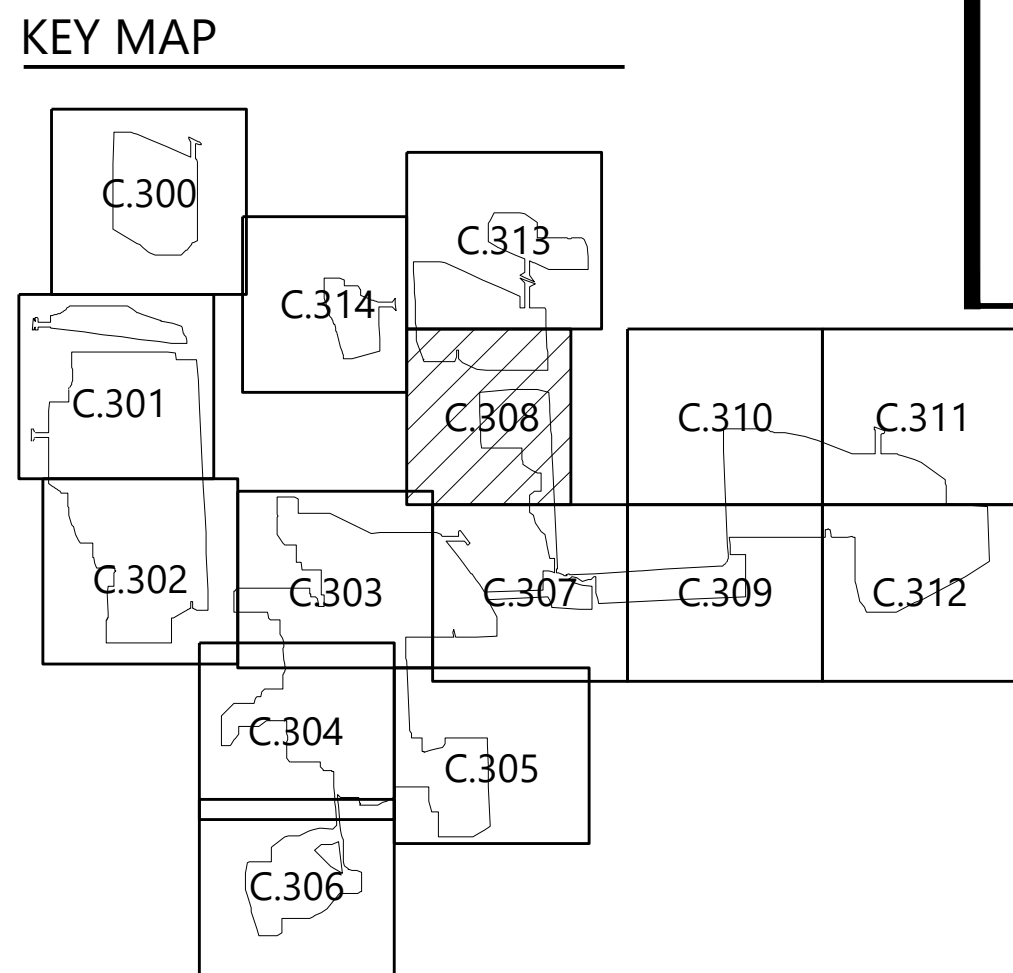
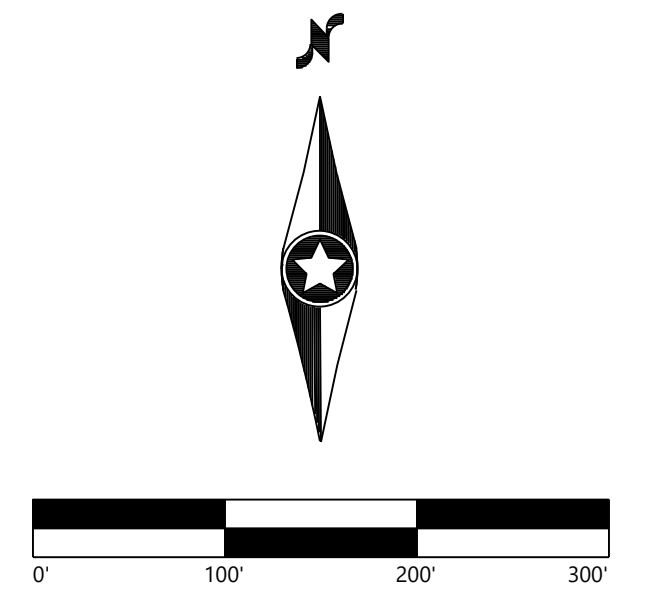
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Juno Beach, FL 33408

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Trelina Solar Energy Center

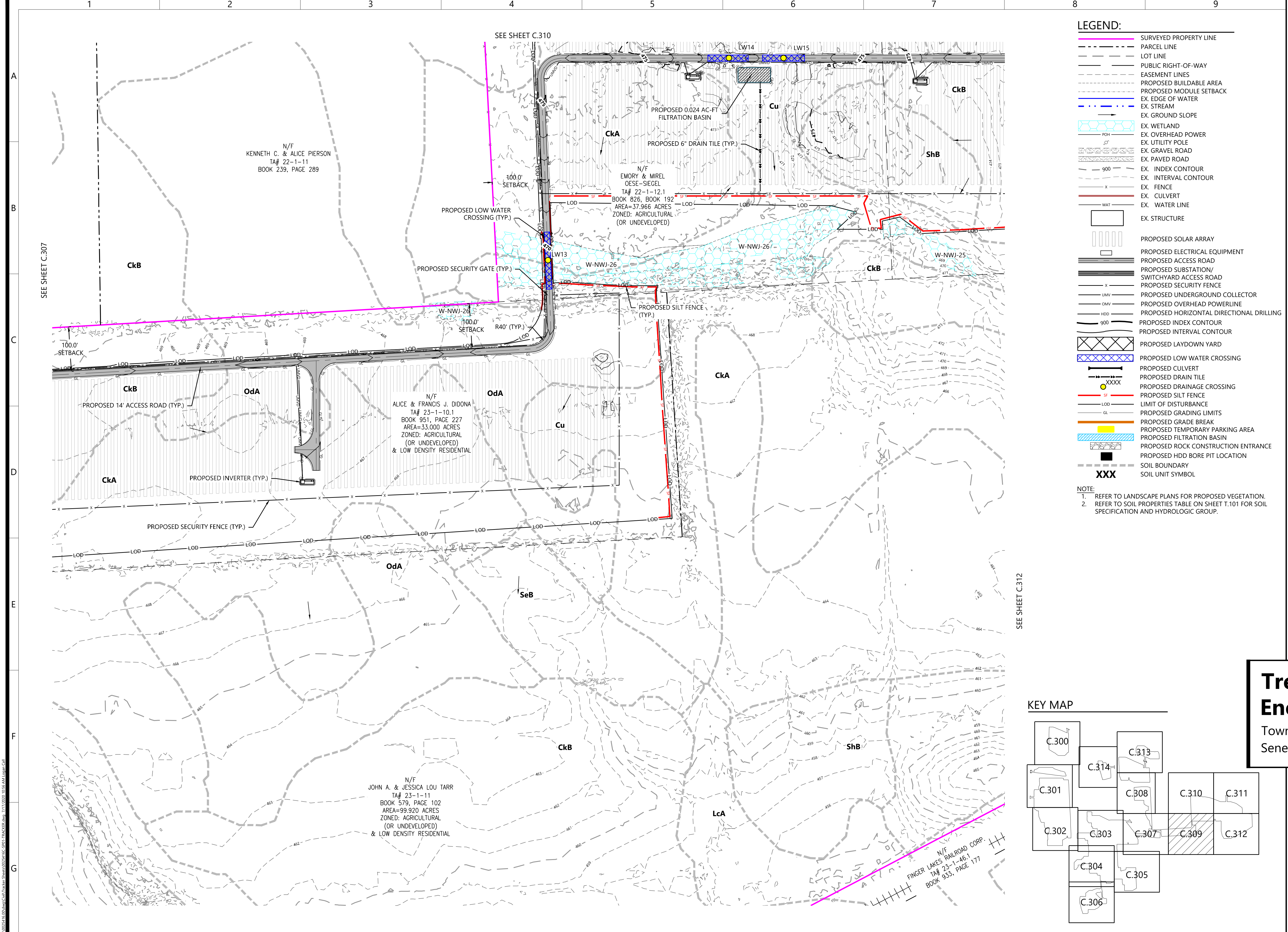
Town of Waterloo
Seneca County, NY

Civil Site Plan

PRELIMINARY
NOT FOR CONSTRUCTION
PURPOSES

DATE: 07/17/2020

SHEET: C.308



LEGEND:

- SURVEYED PROPERTY LINE
- PARCEL LINE
- LOT LINE
- PUBLIC RIGHT-OF-WAY
- EASEMENT LINES
- PROPOSED BUILDABLE AREA
- PROPOSED MODULE SETBACK
- EX. EDGE OF WATER
- EX. STREAM
- EX. GROUND SLOPE
- EX. WETLAND
- EX. OVERHEAD POWER
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- EX. GRAVEL ROAD
- EX. PAVED ROAD
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- PROPOSED DRAINAGE CROSSING
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- LIMIT OF DISTURBANCE
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- PROPOSED GRADE BREAK
- PROPOSED TEMPORARY PARKING AREA
- PROPOSED FILTRATION BASIN
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- PROPOSED HDD BORE PIT LOCATION
- SOIL BOUNDARY
- SOIL UNIT SYMBOL

NOTE:

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- REFER TO SOIL PROPERTIES TABLE ON SHEET T.101 FOR SOIL SPECIFICATION AND HYDROLOGIC GROUP.

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Trelina Solar Energy Center

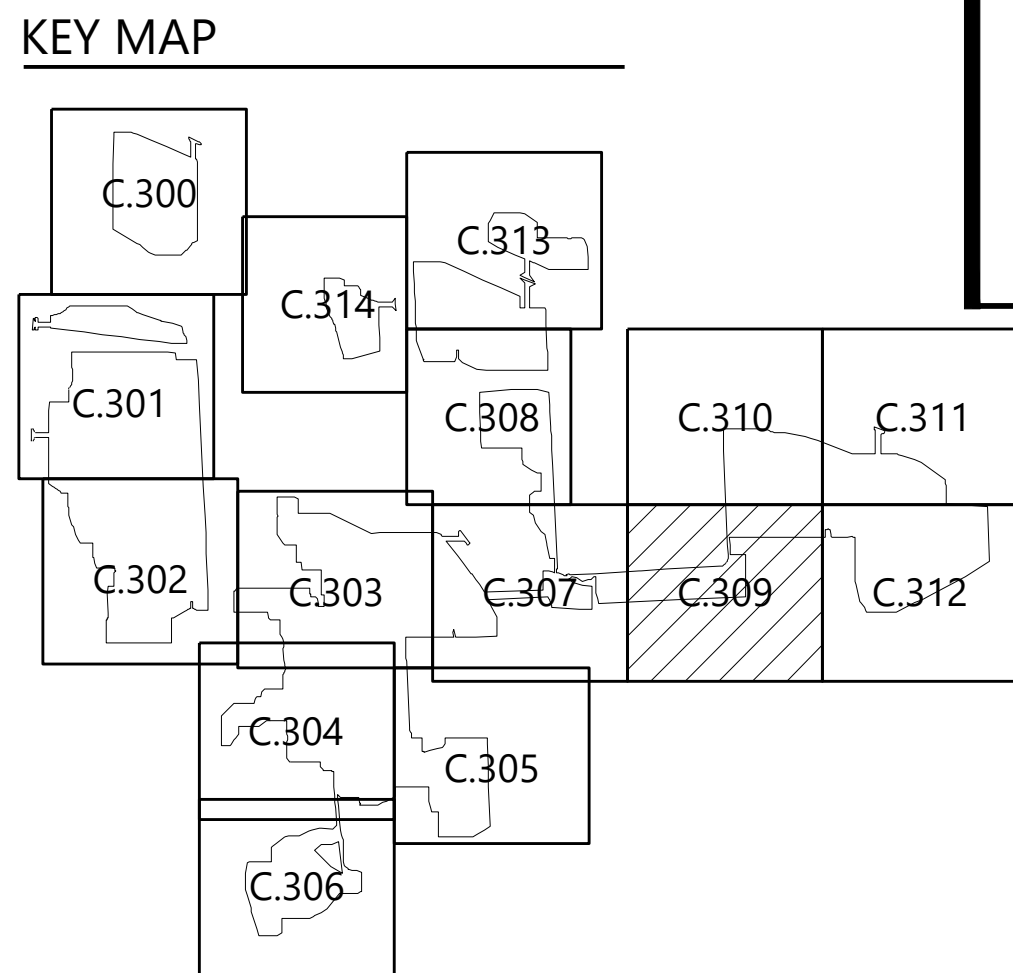
Town of Waterloo
Seneca County, NY

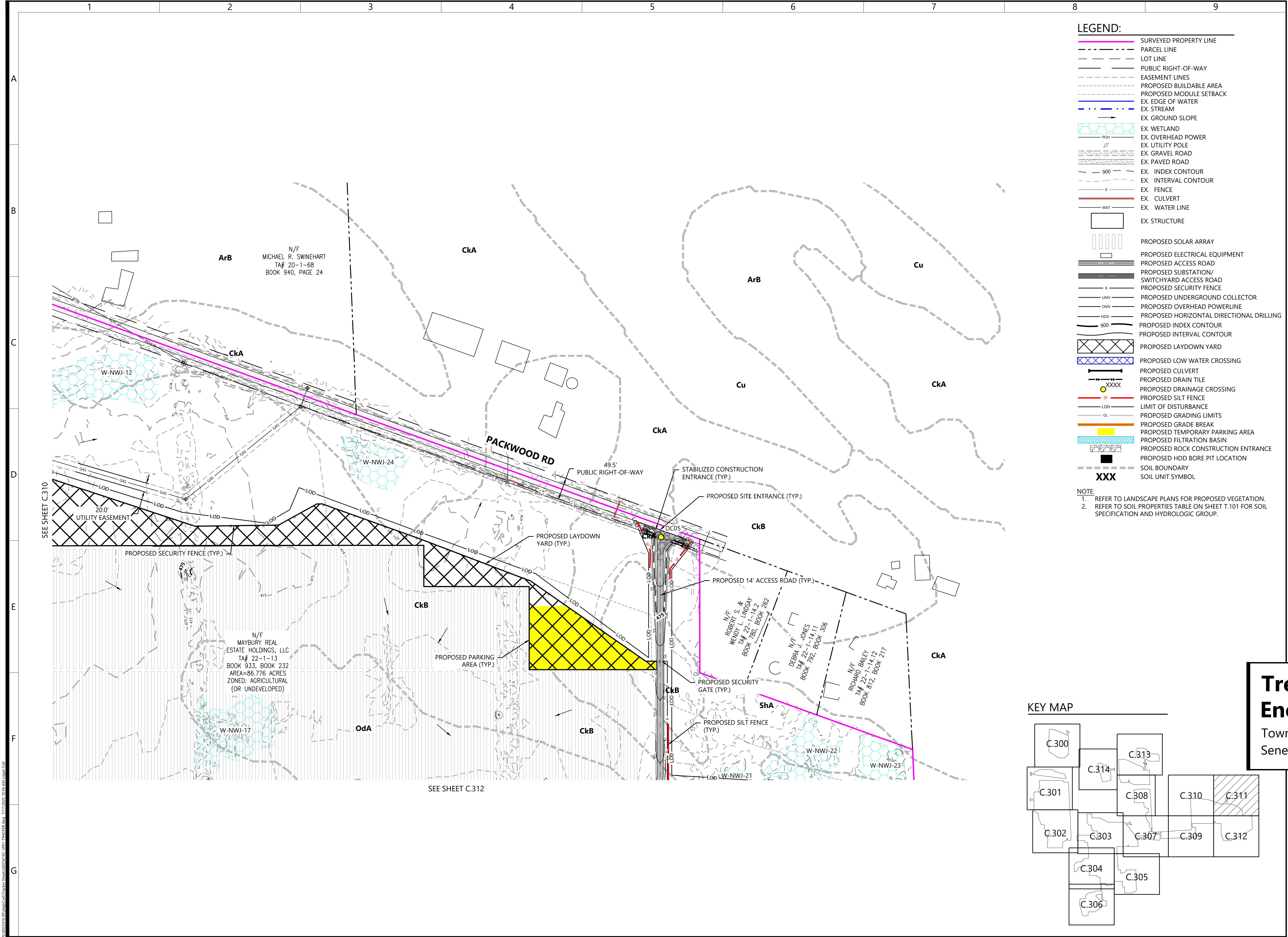
Civil Site Plan

PRELIMINARY
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DATE: 07/17/2020

SHEET: C.309





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Trelina Solar Energy Center

Town of Waterloo
Seneca County, NY

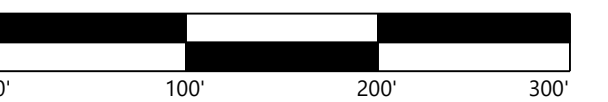
Civil Site Plan

PRELIMINARY
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PURPOSES

DATE: 07/17/2020

SHEET: C.311

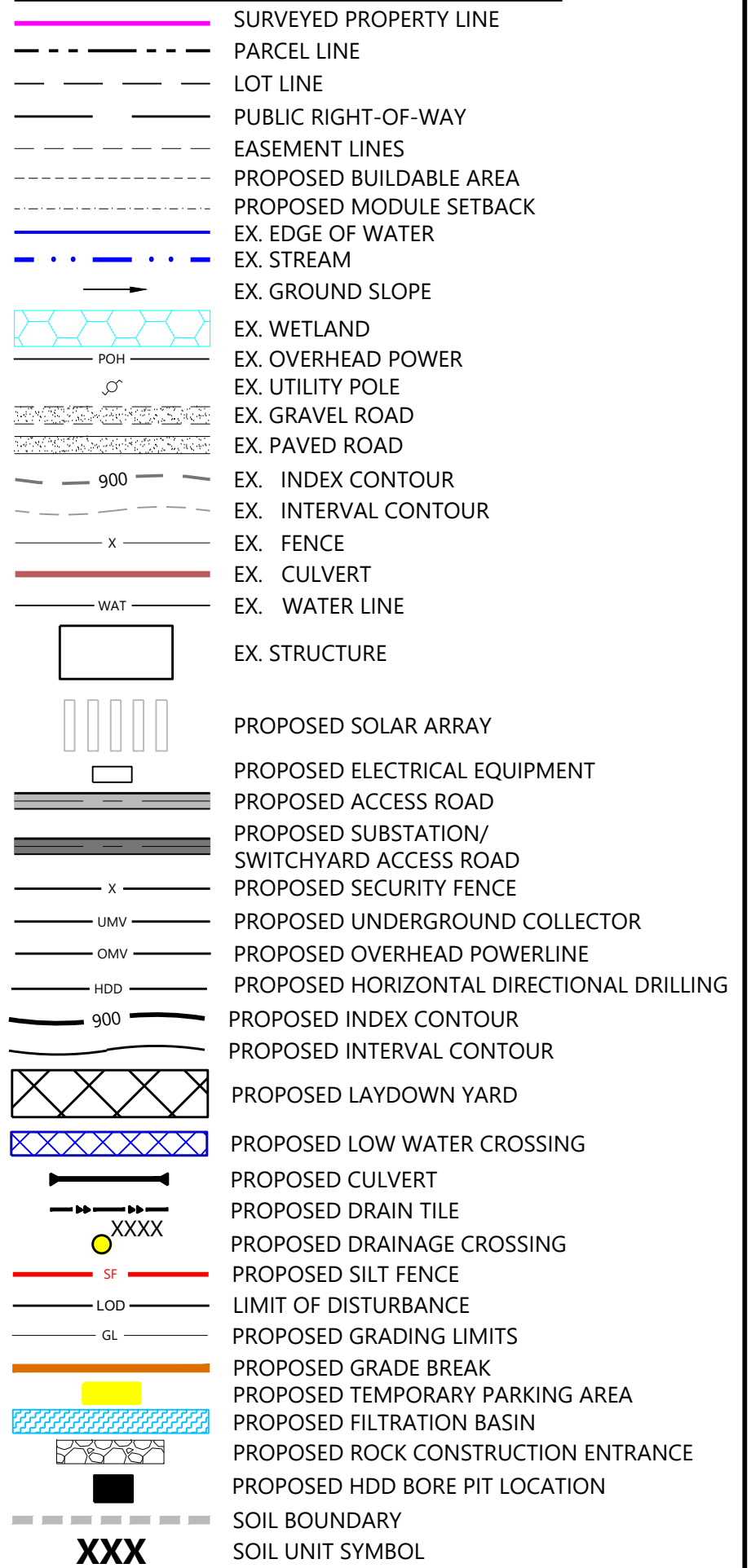
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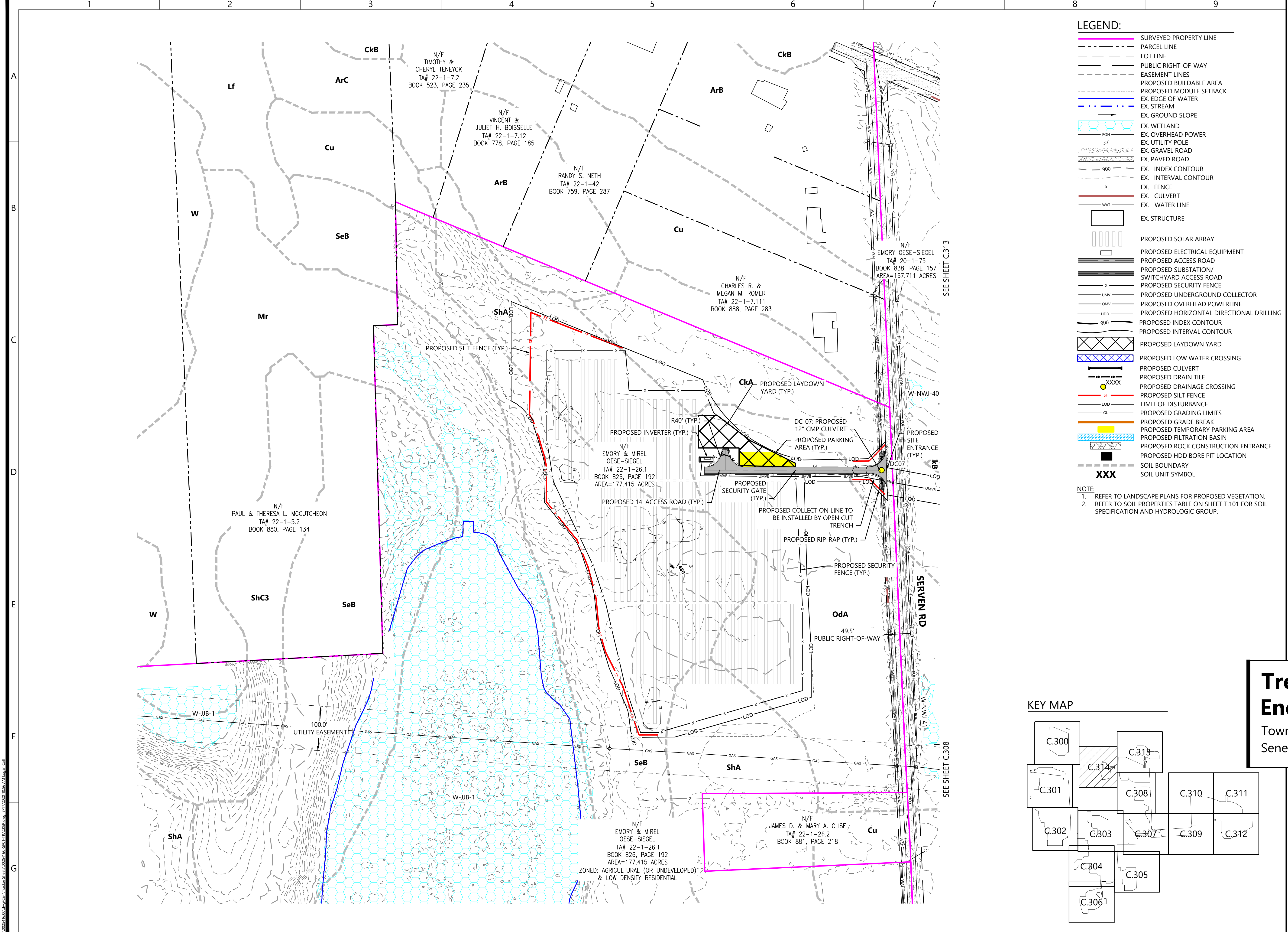
Town of Waterloo
Seneca County, NY

PRELIMINARY
NOT FOR CONSTRUCTION
PURPOSES

SHEET: C.312



1. REFER TO LANDSCAPE PLANS FOR PROPOSED VEGETATION.
2. REFER TO SOIL PROPERTIES TABLE ON SHEET T.101 FOR SOIL SPECIFICATION AND HYDROLOGIC GROUP.



- LEGEND:**
- SURVEYED PROPERTY LINE
 - PARCEL LINE
 - LOT LINE
 - PUBLIC RIGHT-OF-WAY
 - EASEMENT LINES
 - PROPOSED BUILDABLE AREA
 - PROPOSED MODULE SETBACK
 - EX. EDGE OF WATER
 - EX. STREAM
 - EX. GROUND SLOPE
 - EX. WETLAND
 - EX. OVERHEAD POWER
 - EX. UTILITY POLE
 - EX. GRAVEL ROAD
 - EX. PAVED ROAD
 - EX. INDEX CONTOUR
 - EX. INTERVAL CONTOUR
 - EX. FENCE
 - EX. CULVERT
 - EX. WATER LINE
 - EX. STRUCTURE
 - PROPOSED SOLAR ARRAY
 - PROPOSED ELECTRICAL EQUIPMENT
 - PROPOSED ACCESS ROAD
 - PROPOSED SUBSTATION/ SWITCHYARD ACCESS ROAD
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 - PROPOSED DRAIN TILE
 - PROPOSED DRAINAGE CROSSING
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 - LIMIT OF DISTURBANCE
 - PROPOSED GRADING LIMITS
 - PROPOSED GRADE BREAK
 - PROPOSED TEMPORARY PARKING AREA
 - PROPOSED FILTRATION BASIN
 - PROPOSED ROCK CONSTRUCTION ENTRANCE
 - PROPOSED HDD BORE PIT LOCATION
 - SOIL BOUNDARY
 - SOIL UNIT SYMBOL

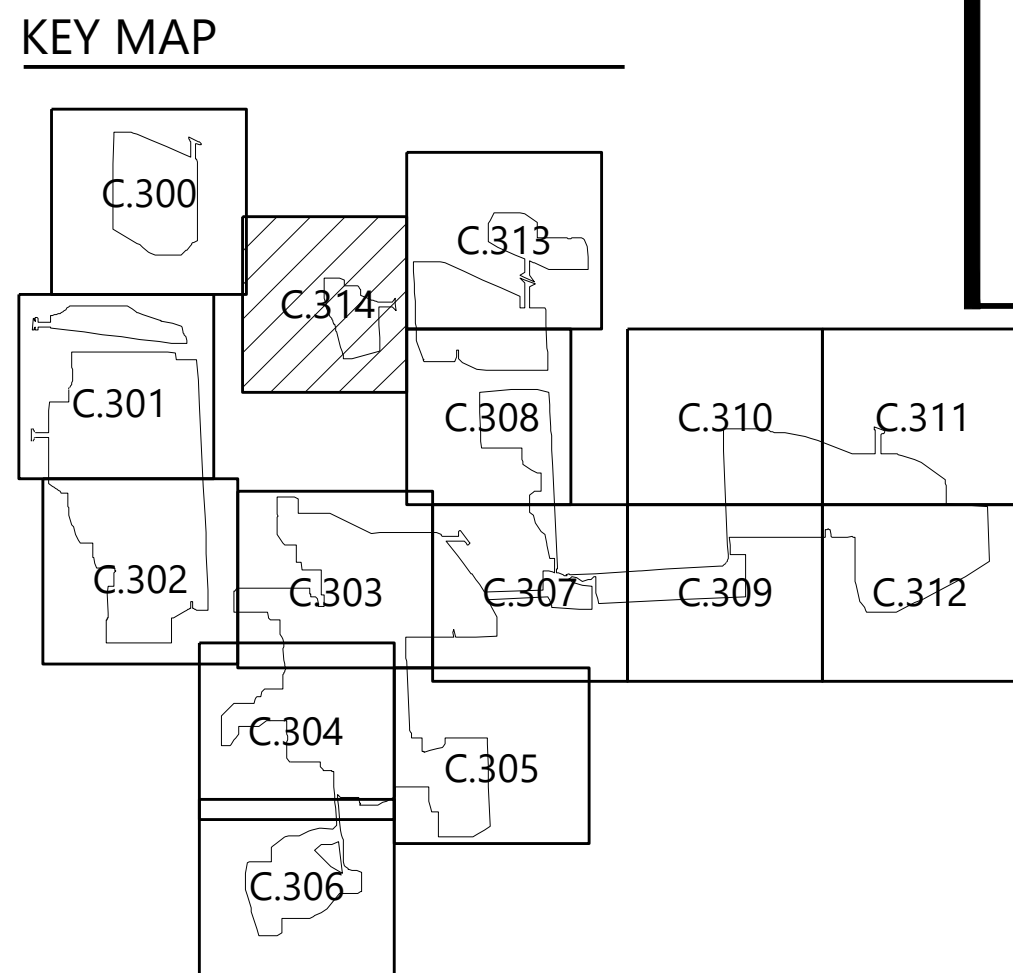
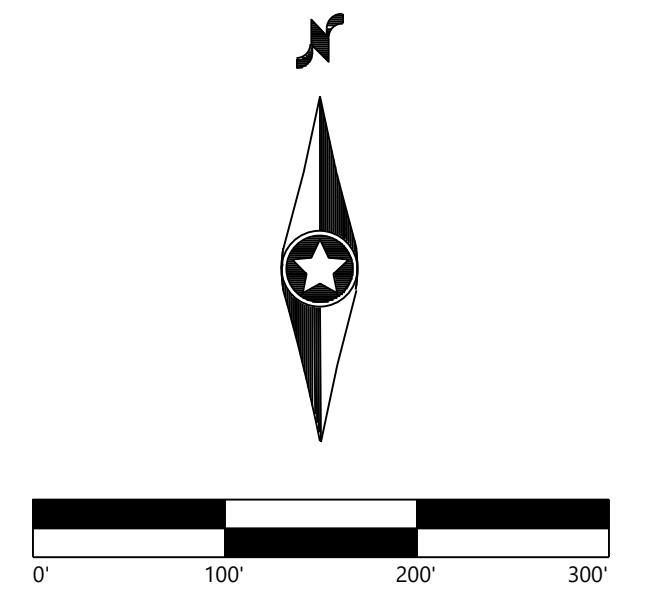
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NEXTERA ENERGY
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Trelina Solar Energy Center
Town of Waterloo
Seneca County, NY

Civil Site Plan

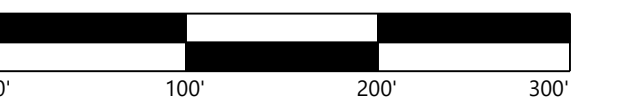
PRELIMINARY
NOT FOR CONSTRUCTION
PURPOSES

DATE: 07/17/2020
SHEET: C.314

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ENERGY 

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Ft. Lauderdale Beach, FL 33408

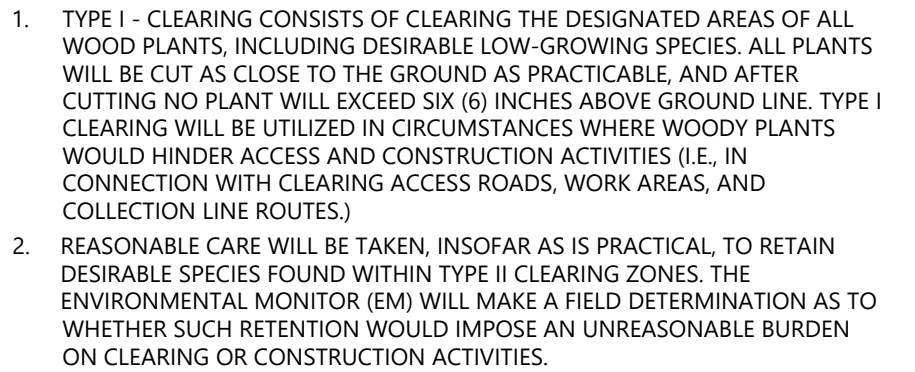
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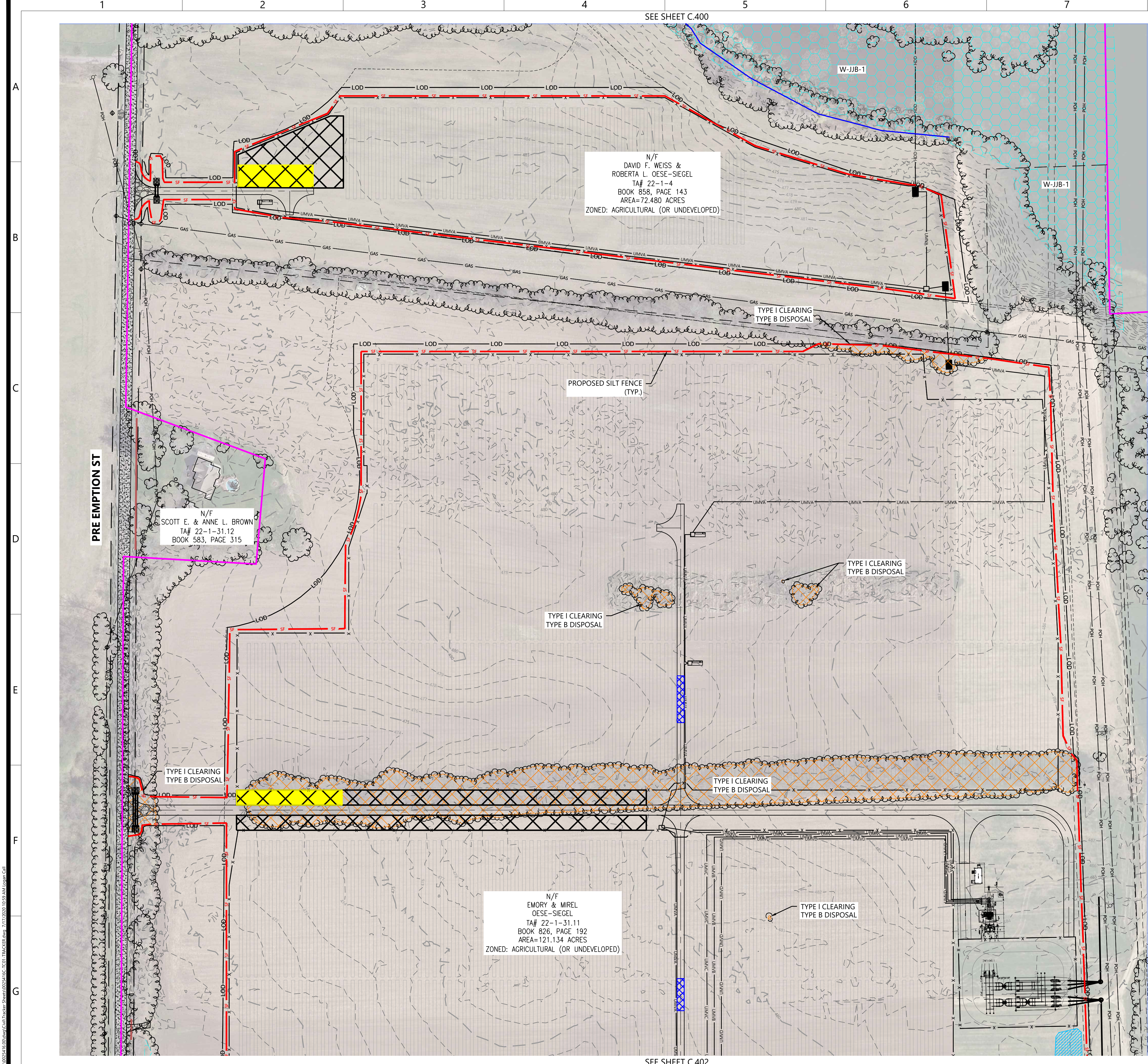


Town of Waterloo
Seneca County, NY

PRELIMINARY
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PURPOSES

SHEET: C.400

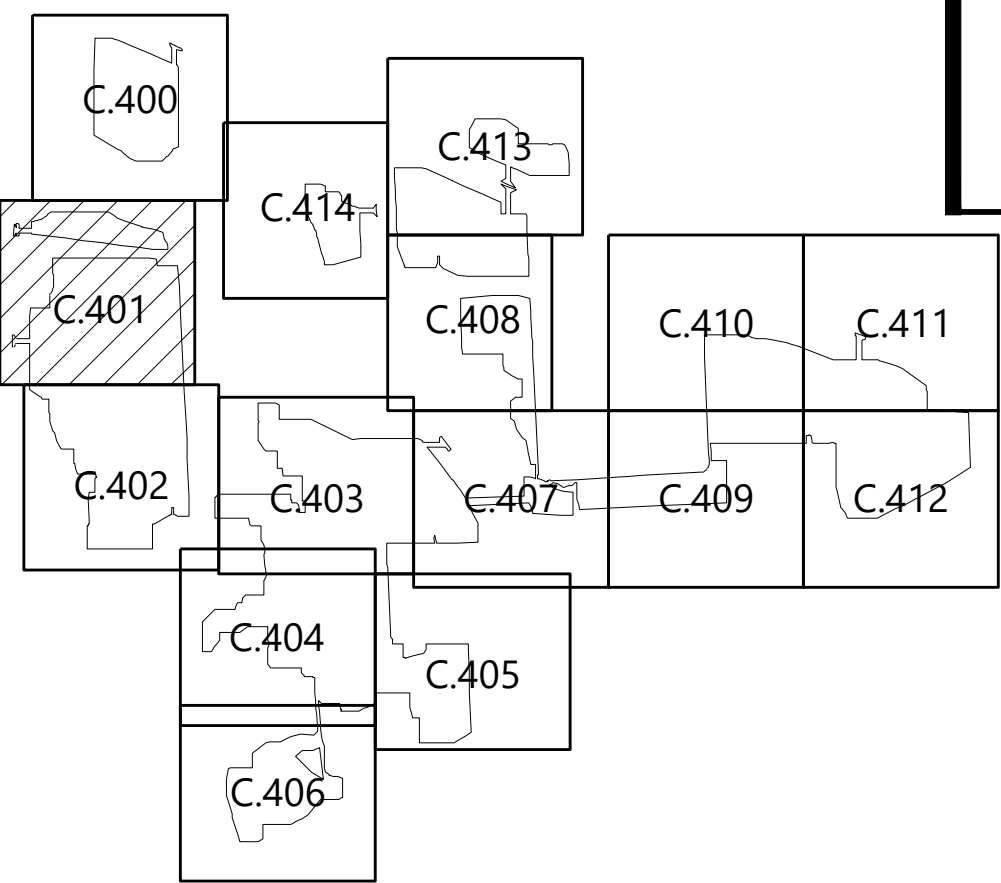




- LEGEND:**
- SURVEYED PROPERTY LINE
 - PARCEL LINE
 - LOT LINE
 - RIGHT-OF-WAY LINES
 - EASEMENT LINES
 - EX. STREAM
 - EX. EDGE OF WATER
 - EX. TREELINE
 - EX. WETLAND
 - EX. OVERHEAD POWER
 - EX. GRAVEL ROAD
 - EX. PAVED ROAD
 - EX. INDEX CONTOUR
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 - PROPOSED HORIZONTAL DIRECTIONAL DRILLING
 - PROPOSED LAYDOWN YARD
 - PROPOSED PARKING AREA
 - LIMIT OF DISTURBANCE
 - PROPOSED LOW WATER CROSSING
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 - PROPOSED GRADING LIMITS
 - PROPOSED CULVERT
 - PROPOSED DRAINAGE TILE
 - PROPOSED SILT FENCE
 - HDD BORE LOCATION
 - TYPE I TREE CLEARING
 - TYPE B DISPOSAL
 - PROPOSED FILTRATION BASIN

- NOTES:**
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KEY MAP



Westwood

Phone (952) 937-5150 12701 Whitewater Drive, Suite #300
Fax (952) 937-5822 Minnetonka, MN 55343
Toll Free (888) 937-5150 westwoodps.com
Westwood Surveying and Engineering, P.C.

PREPARED FOR:



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**

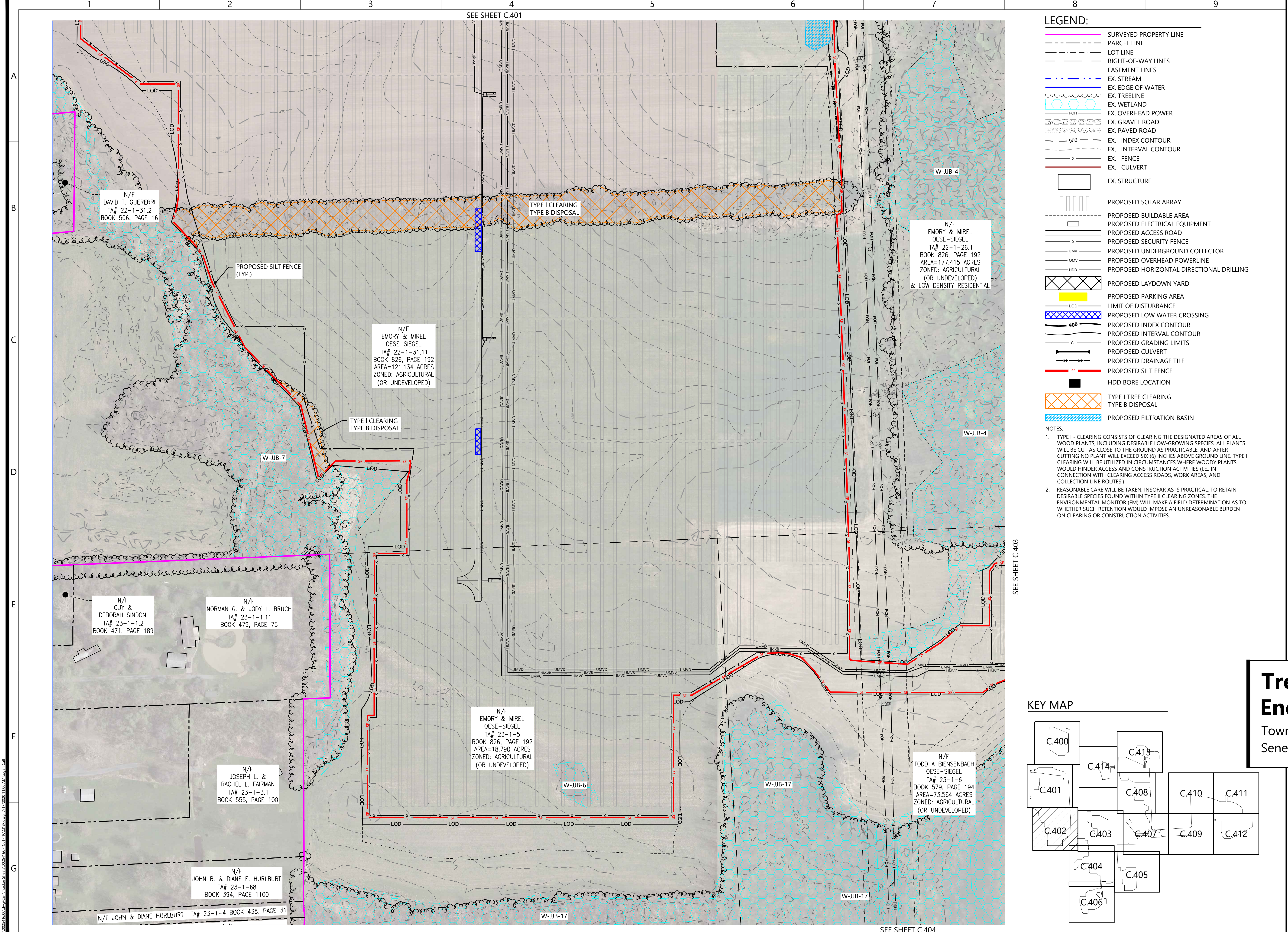
Town of Waterloo
Seneca County, NY

Tree Clearing Plan

PRELIMINARY
NOT FOR CONSTRUCTION
PURPOSES

DATE: 07/17/2020

SHEET: C.401



LEGEND:

- SURVEYED PROPERTY LINE
- PARCEL LINE
- LOT LINE
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- EX. STREAM
- EX. EDGE OF WATER
- EX. TREELINE
- EX. WETLAND
- EX. OVERHEAD POWER
- EX. GRAVEL ROAD
- EX. PAVED ROAD
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- EX. FENCE
- EX. CULVERT
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- PROPOSED SOLAR ARRAY
- PROPOSED BUILDABLE AREA
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- PROPOSED LOW WATER CROSSING
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PREPARED FOR:

NEXTERA ENERGY

700 Universe Blvd,
Juno Beach, FL 33408

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0' 100' 200' 300'

Trelina Solar Energy Center

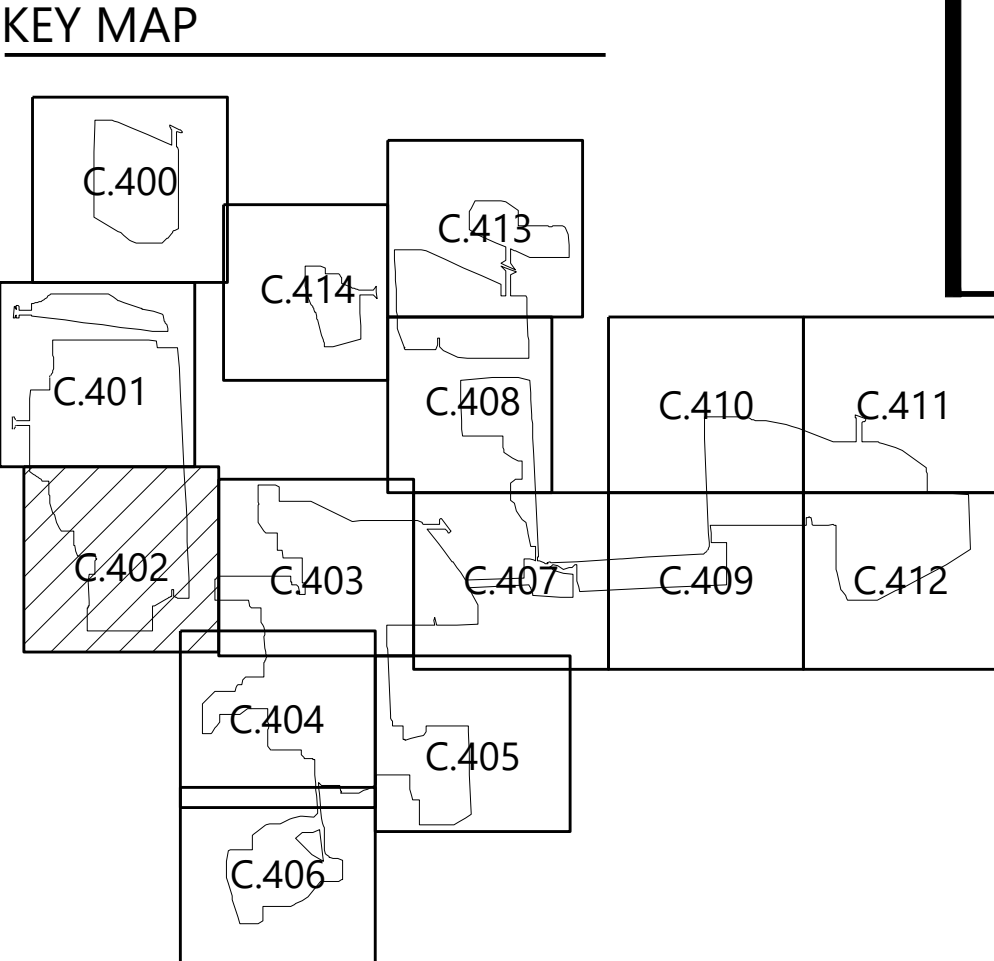
Town of Waterloo
Seneca County, NY

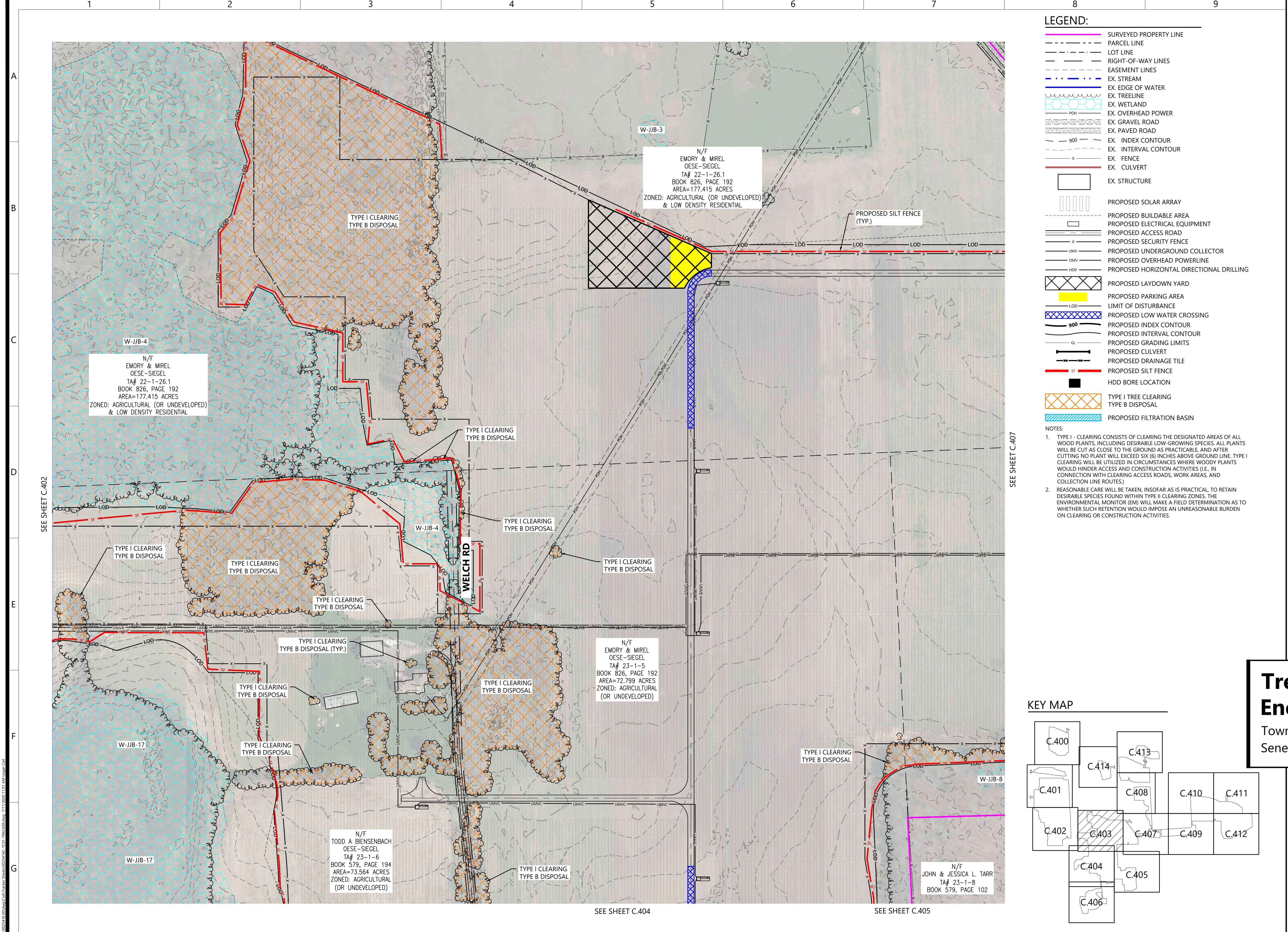
Tree Clearing Plan

PRELIMINARY
NOT FOR CONSTRUCTION
PURPOSES

DATE: 07/17/2020

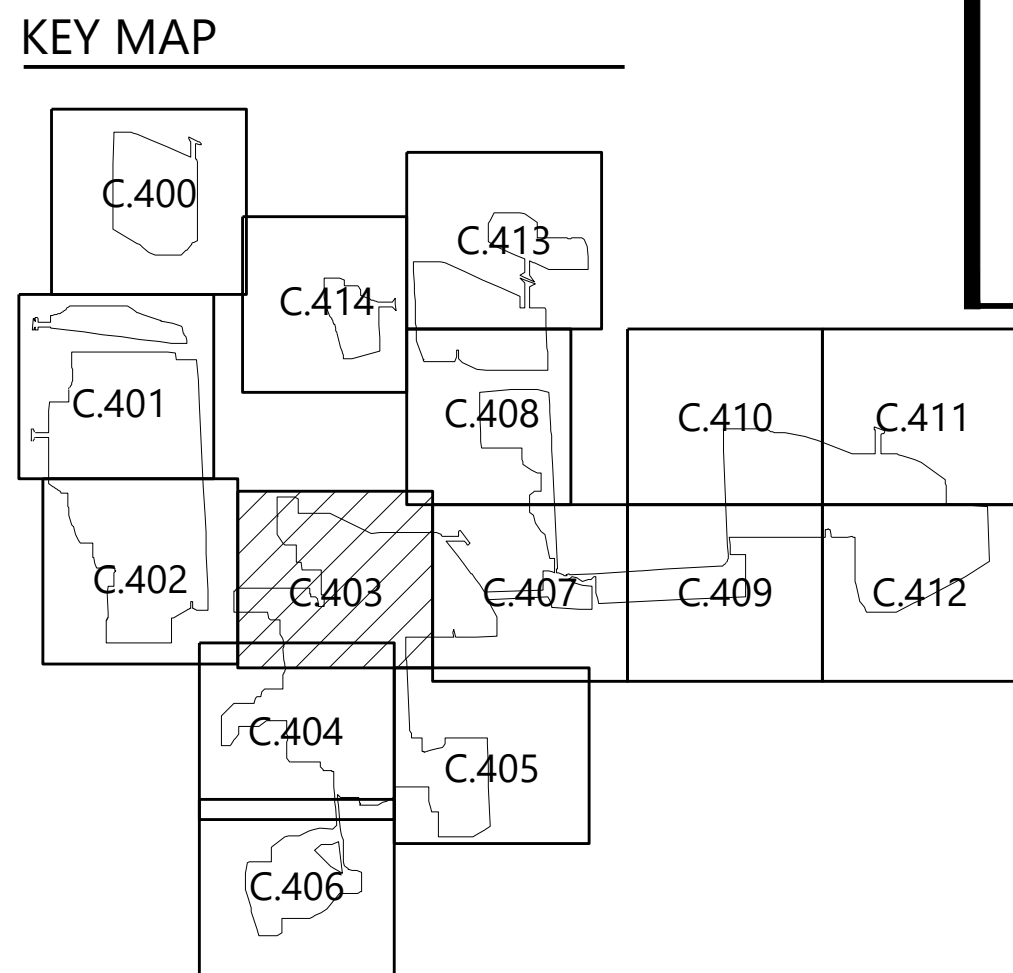
SHEET: C.402





- LEGEND:**
- SURVEYED PROPERTY LINE
 - PARCEL LINE
 - LOT LINE
 - RIGHT-OF-WAY LINES
 - EASEMENT LINES
 - EX. STREAM
 - EX. EDGE OF WATER
 - EX. TREELINE
 - EX. WETLAND
 - EX. OVERHEAD POWER
 - EX. GRAVEL ROAD
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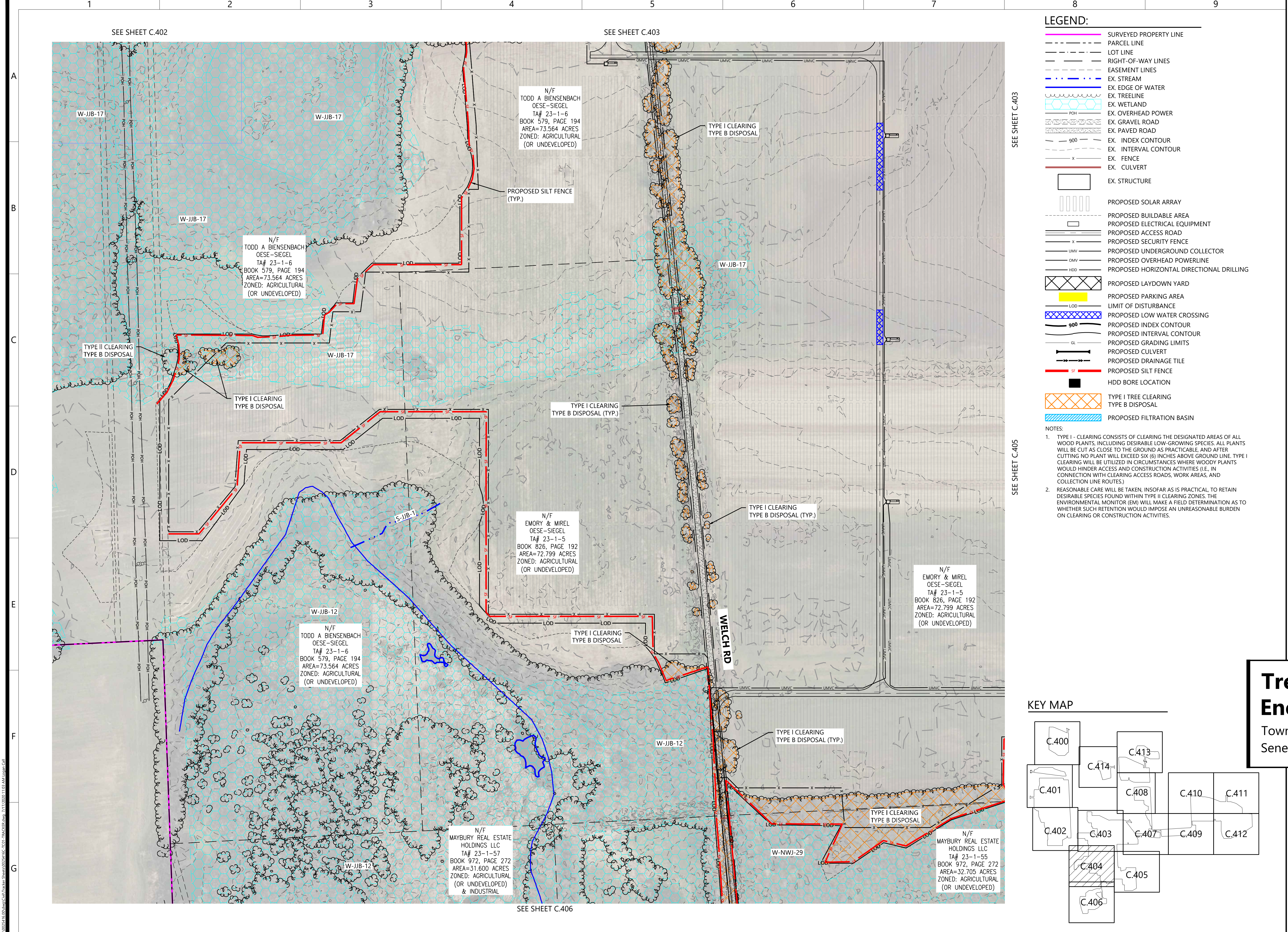
Town of Waterloo
Seneca County, NY

Tree Clearing Plan

PRELIMINARY
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PURPOSES

DATE: 07/17/2020

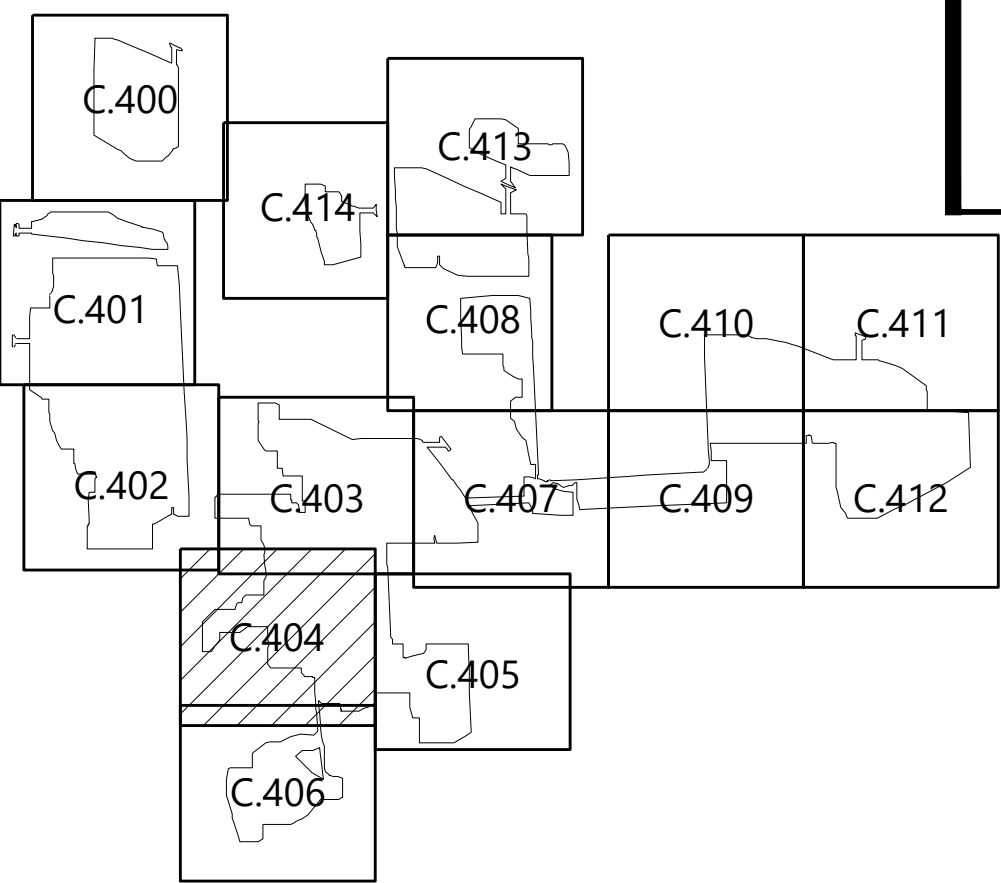
SHEET: C.403



- LEGEND:**
- SURVEYED PROPERTY LINE
 - PARCEL LINE
 - LOT LINE
 - RIGHT-OF-WAY LINES
 - EASEMENT LINES
 - EX. STREAM
 - EX. EDGE OF WATER
 - EX. TREELINE
 - EX. WETLAND
 - EX. OVERHEAD POWER
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KEY MAP



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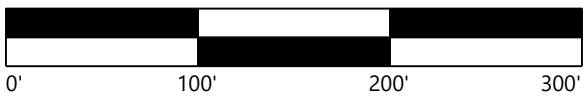
PREPARED FOR:



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**Trelina Solar
Energy Center**

Town of Waterloo
Seneca County, NY

Tree Clearing Plan

PRELIMINARY
NOT FOR CONSTRUCTION
PURPOSES

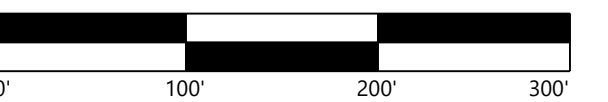
DATE: 07/17/2020

SHEET: C.404

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ENERGY 

700 Universe Blvd,
Ft. Lauderdale Beach, FL 33408

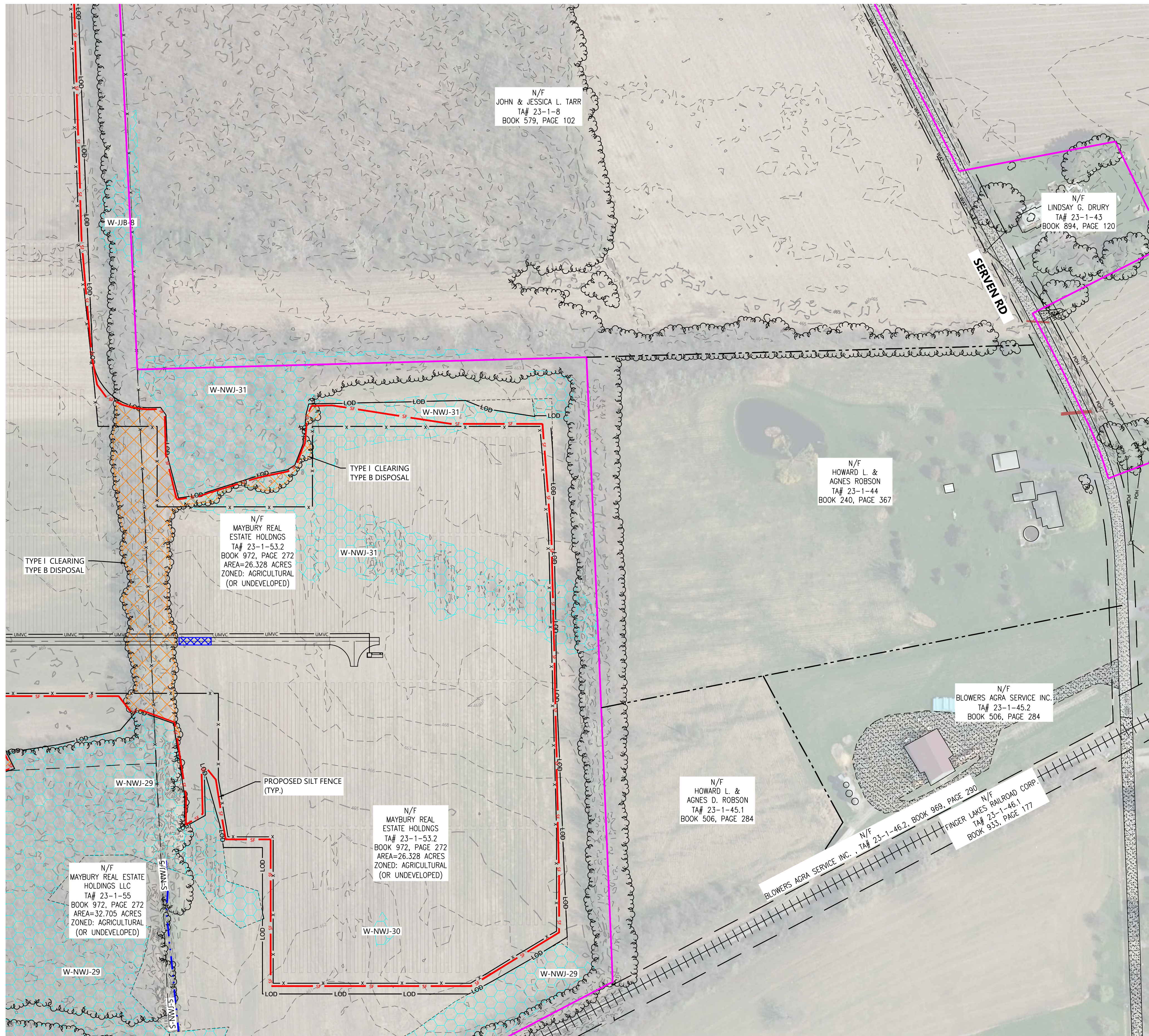
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Town of Waterloo
Seneca County, NY

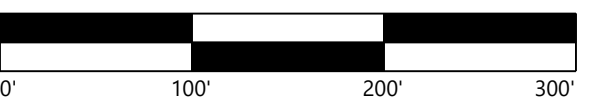
PRELIMINARY
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PURPOSES

SHEET: C.405

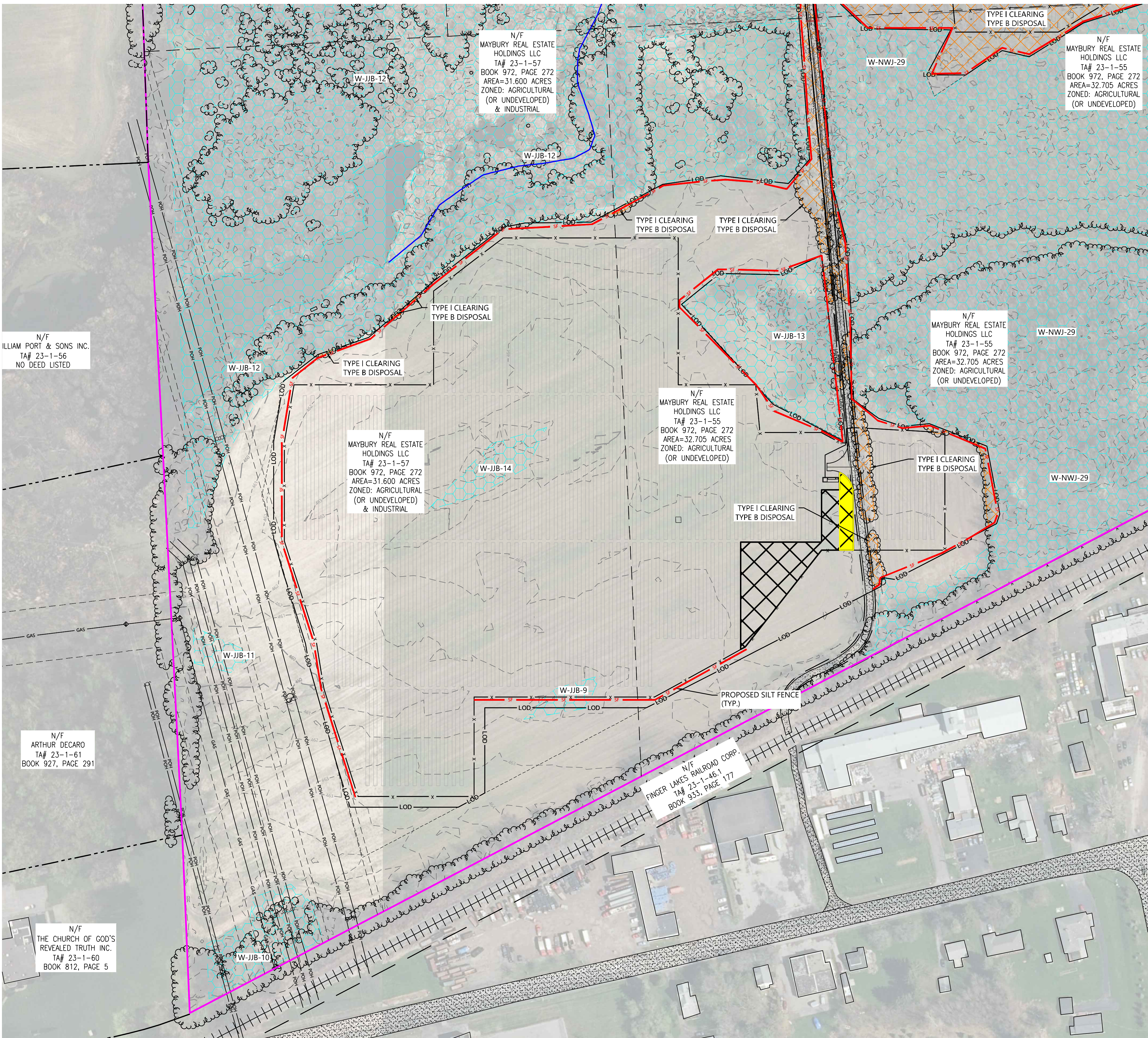
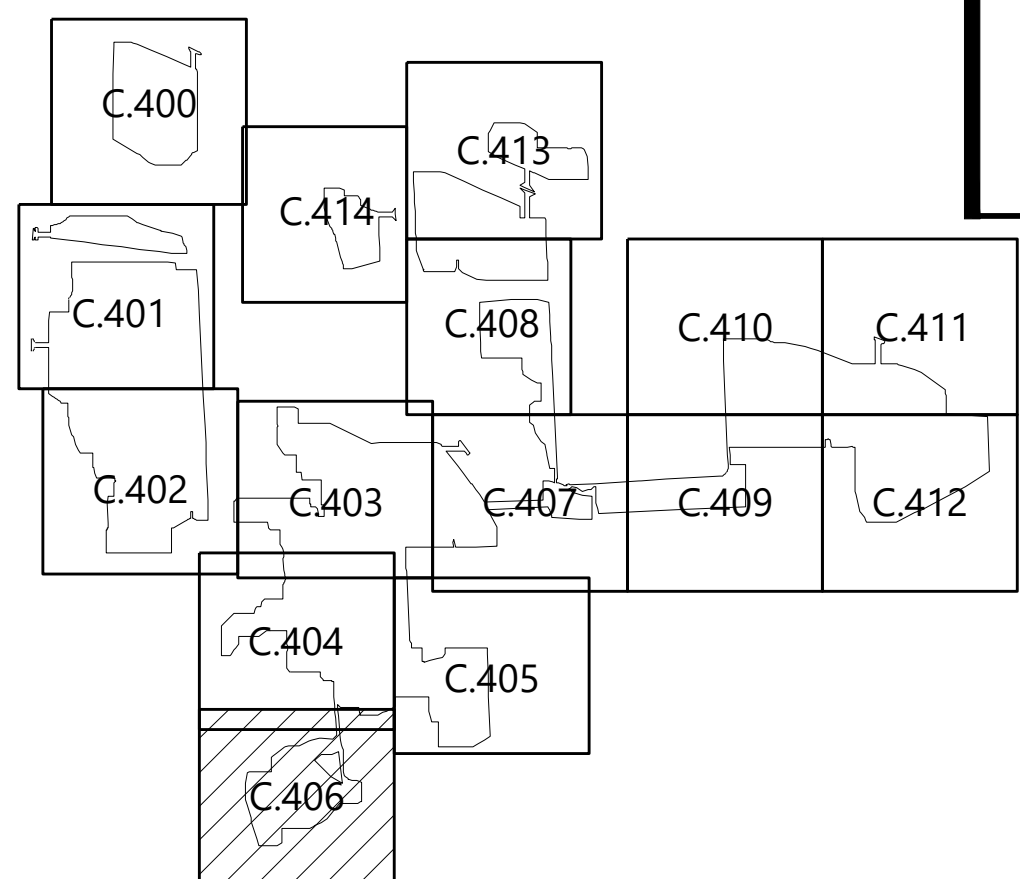
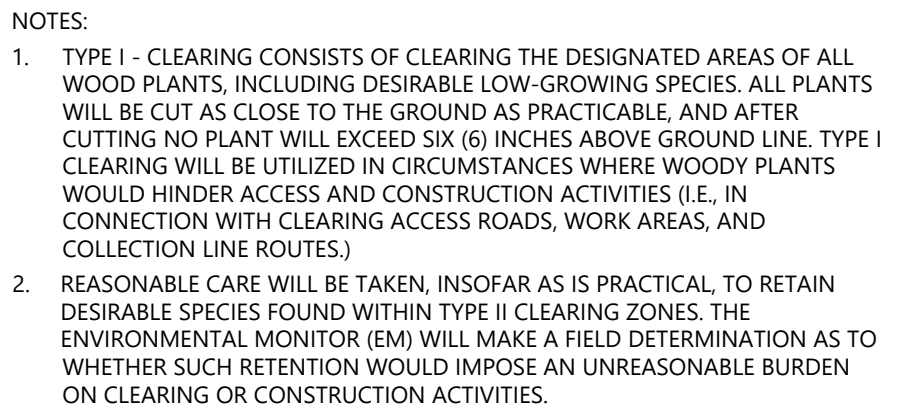


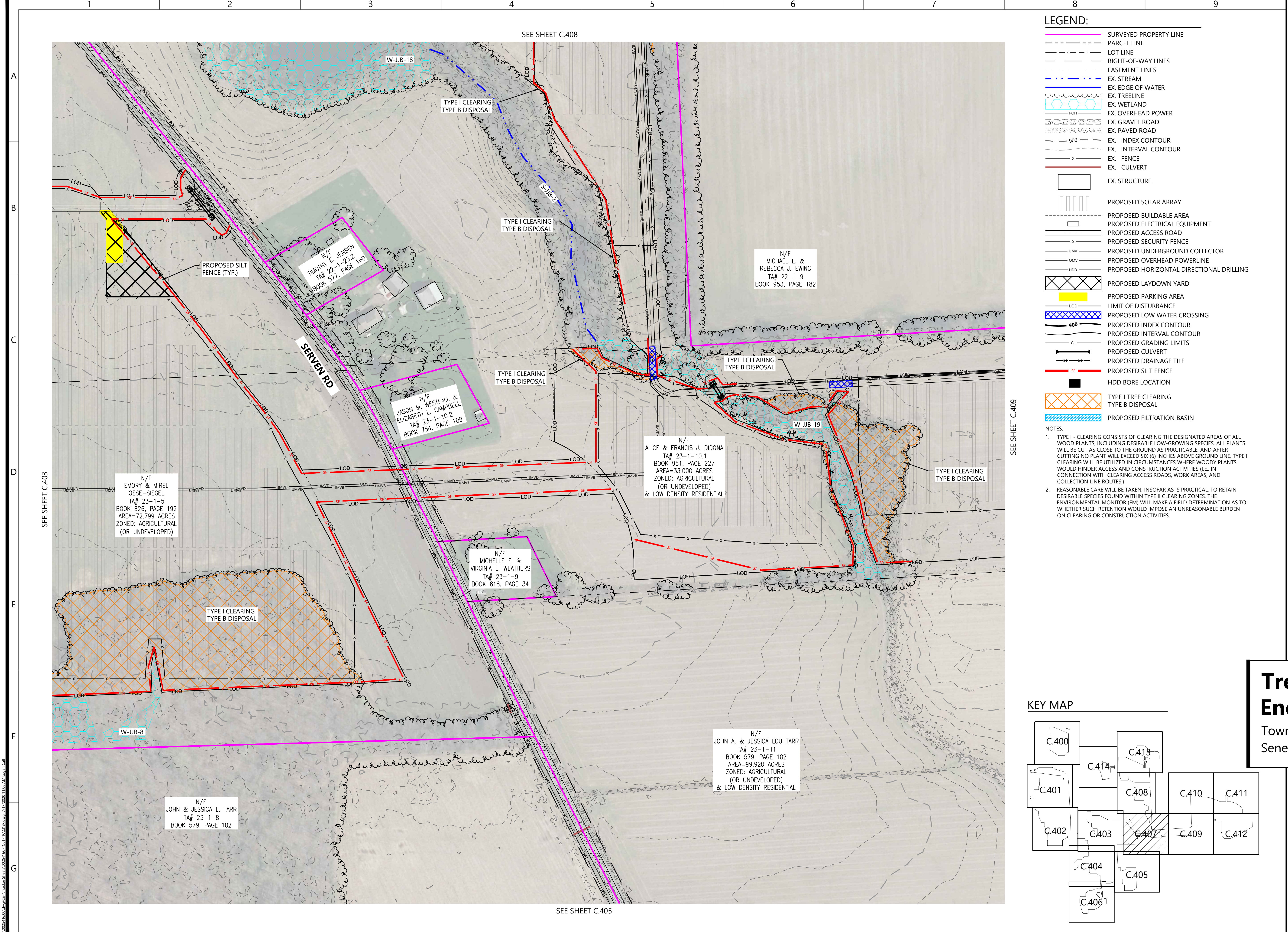
	SURVEYED PROPERTY LINE
	PARCEL LINE
	LOT LINE
	RIGHT-OF-WAY LINES
	EASEMENT LINES
	EX. STREAM
	EX. EDGE OF WATER
	EX. TREELINE
	EX. WETLAND
	EX. OVERHEAD POWER
	EX. GRAVEL ROAD
	EX. PAVED ROAD
	EX. INDEX CONTOUR
	EX. INTERVAL CONTOUR
	EX. FENCE
	EX. CULVERT
	EX. STRUCTURE
	PROPOSED SOLAR ARRAY
	PROPOSED BUILDABLE AREA
	PROPOSED ELECTRICAL EQUIPMENT
	PROPOSED ACCESS ROAD
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SHEET: C.406



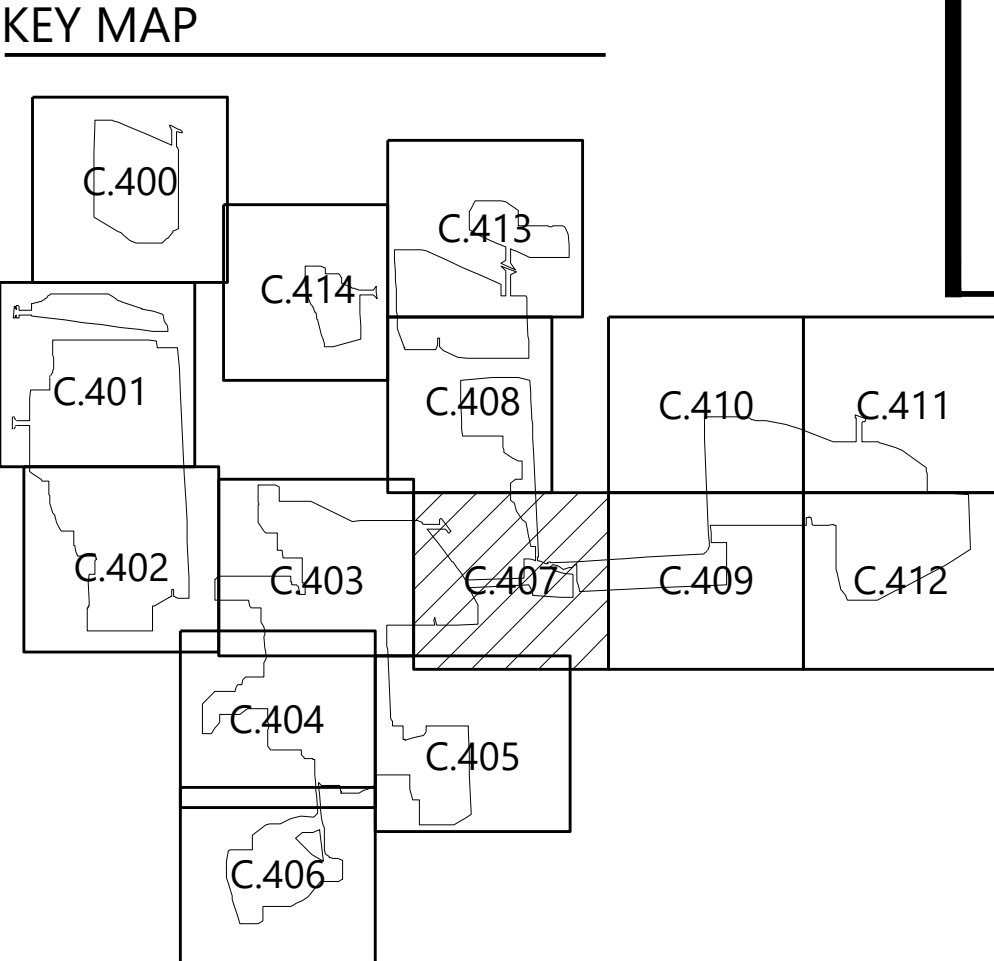


LEGEND:

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Trelina Solar Energy Center

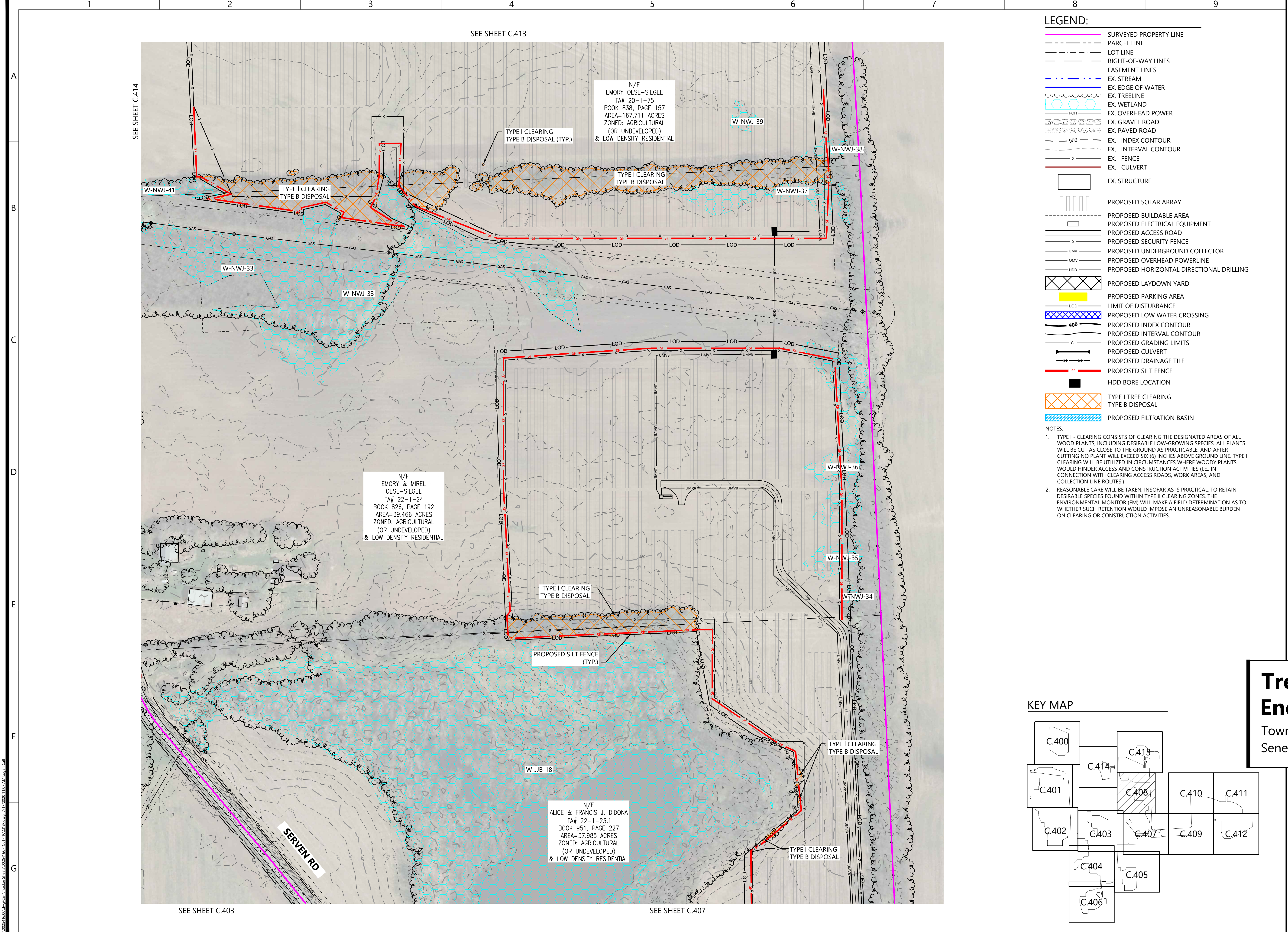
Town of Waterloo
Seneca County, NY

Tree Clearing Plan

PRELIMINARY
NOT FOR CONSTRUCTION
PURPOSES

DATE: 07/17/2020

SHEET: C.407



LEGEND:

- SURVEYED PROPERTY LINE
- PARCEL LINE
- LOT LINE
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- EX. STREAM
- EX. EDGE OF WATER
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Trelina Solar Energy Center

Town of Waterloo
Seneca County, NY

Tree Clearing Plan

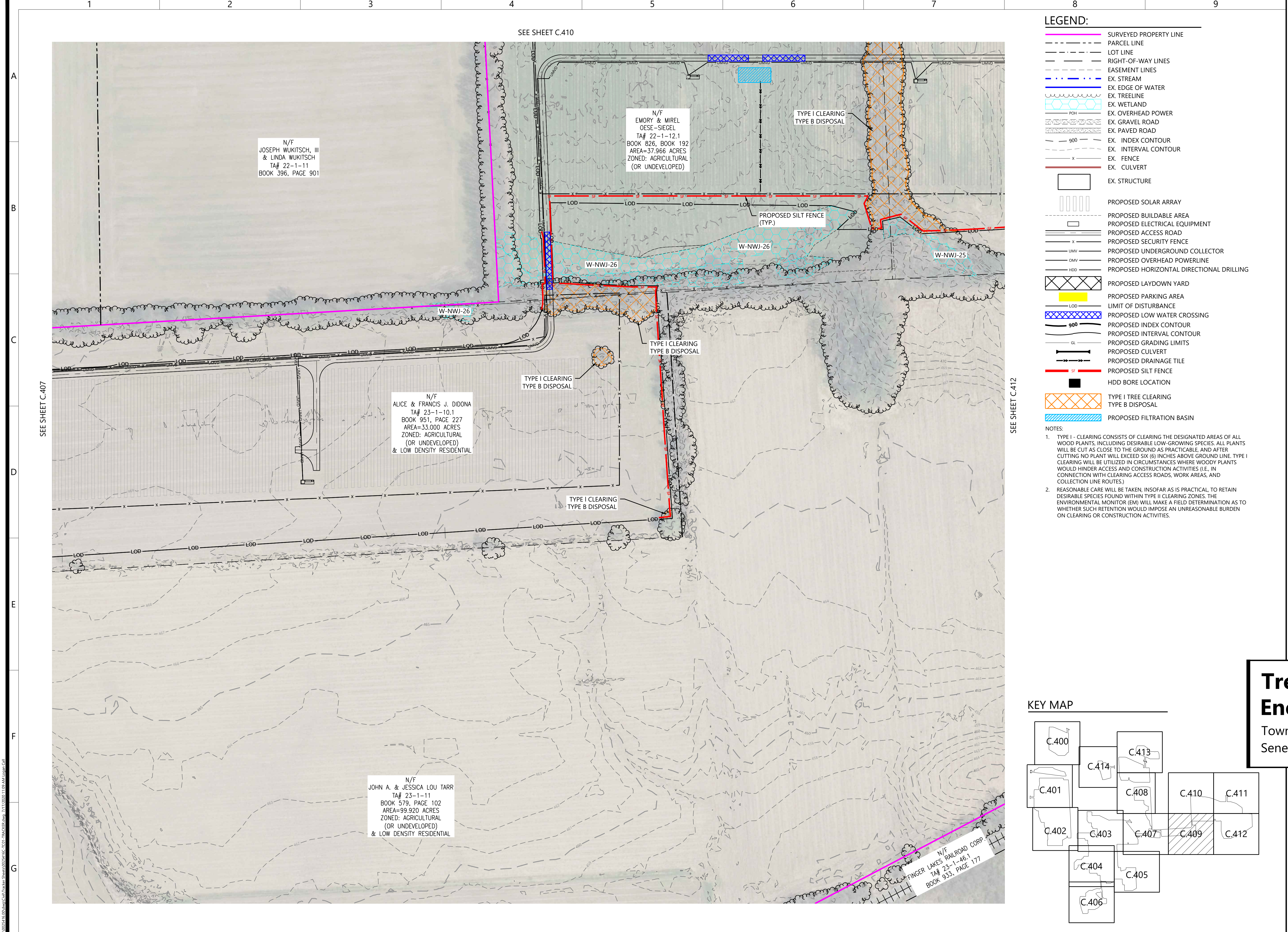
PRELIMINARY
NOT FOR CONSTRUCTION
PURPOSES

DATE: 07/17/2020

SHEET: C.408

KEY MAP

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0' 100' 200' 300'

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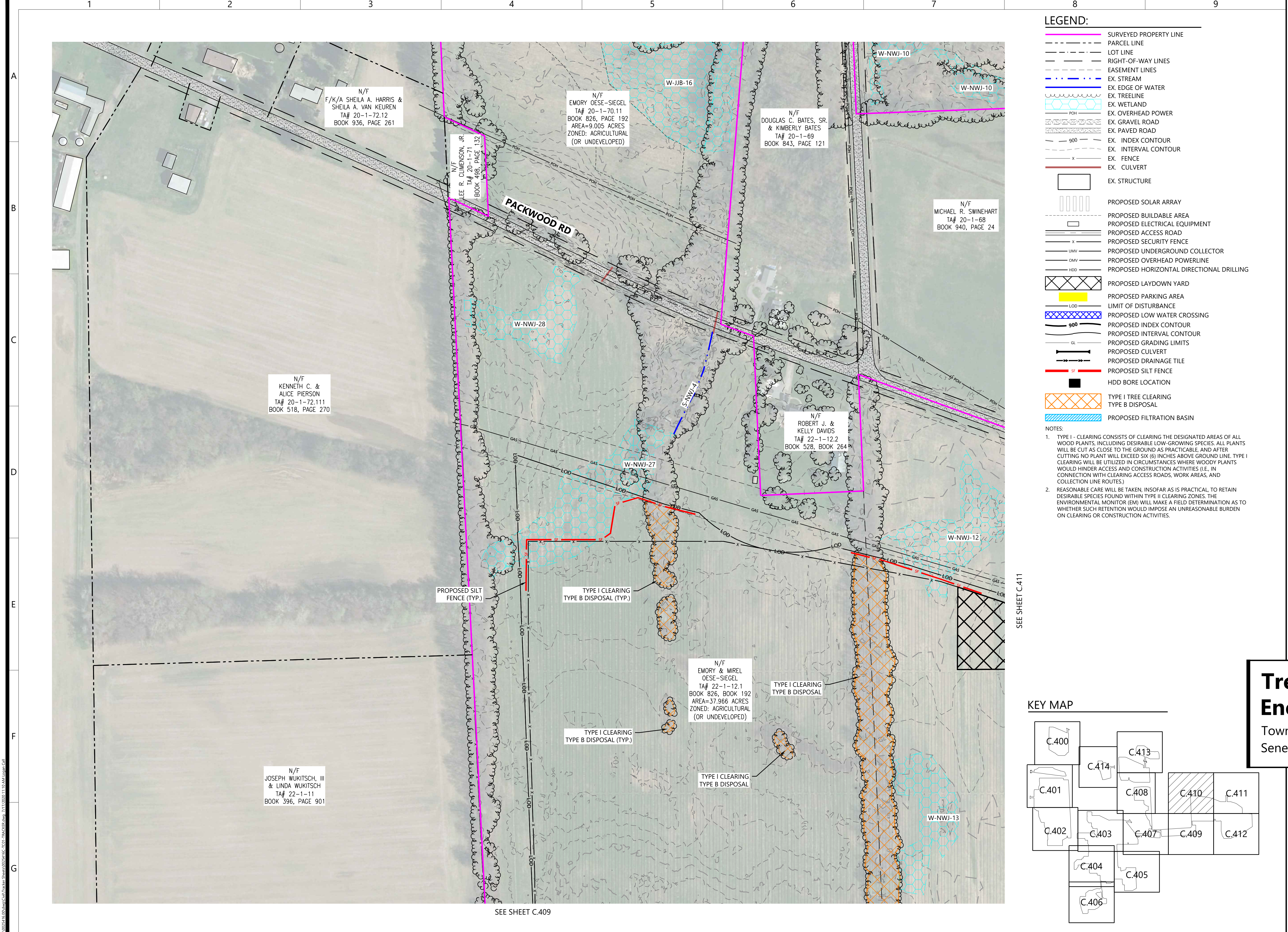
Tree Clearing Plan

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SHEET: C.409

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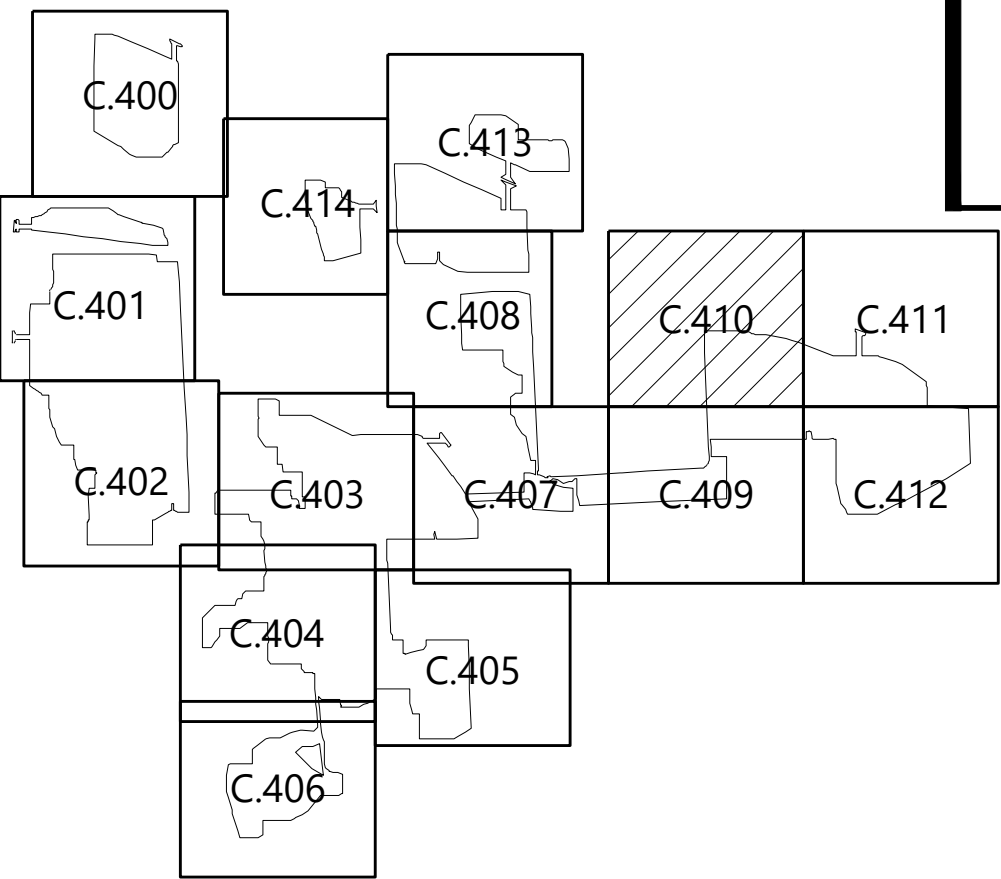


LEGEND:

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- RIGHT-OF-WAY LINES
- EASEMENT LINES
- EX. STREAM
- EX. EDGE OF WATER
- EX. TREELINE
- EX. WETLAND
- EX. OVERHEAD POWER
- EX. GRAVEL ROAD
- EX. PAVED ROAD
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- EX. FENCE
- EX. CULVERT
- EX. STRUCTURE
- PROPOSED SOLAR ARRAY
- PROPOSED BUILDABLE AREA
- PROPOSED ELECTRICAL EQUIPMENT
- PROPOSED ACCESS ROAD
- PROPOSED SECURITY FENCE
- PROPOSED UNDERGROUND COLLECTOR
- PROPOSED OVERHEAD POWERLINE
- PROPOSED HORIZONTAL DIRECTIONAL DRILLING
- PROPOSED LAYDOWN YARD
- PROPOSED PARKING AREA
- LIMIT OF DISTURBANCE
- PROPOSED LOW WATER CROSSING
- PROPOSED INDEX CONTOUR
- PROPOSED INTERVAL CONTOUR
- PROPOSED GRADING LIMITS
- PROPOSED CULVERT
- PROPOSED DRAINAGE TILE
- PROPOSED SILT FENCE
- HDD BORE LOCATION
- TYPE I TREE CLEARING
- TYPE B DISPOSAL
- PROPOSED FILTRATION BASIN

- NOTES:
- 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 LINE ROUTES).
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KEY MAP



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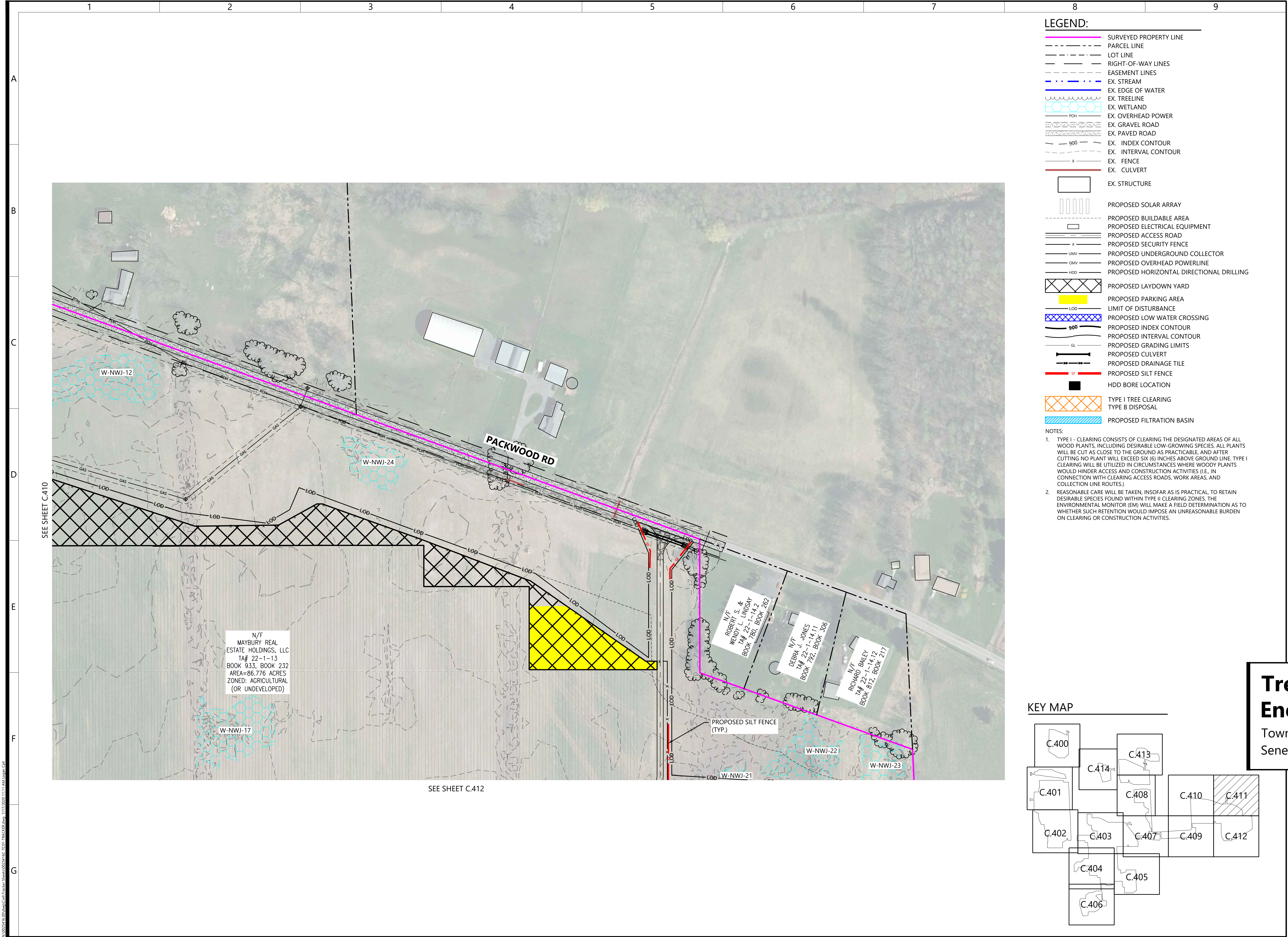
Tree Clearing Plan

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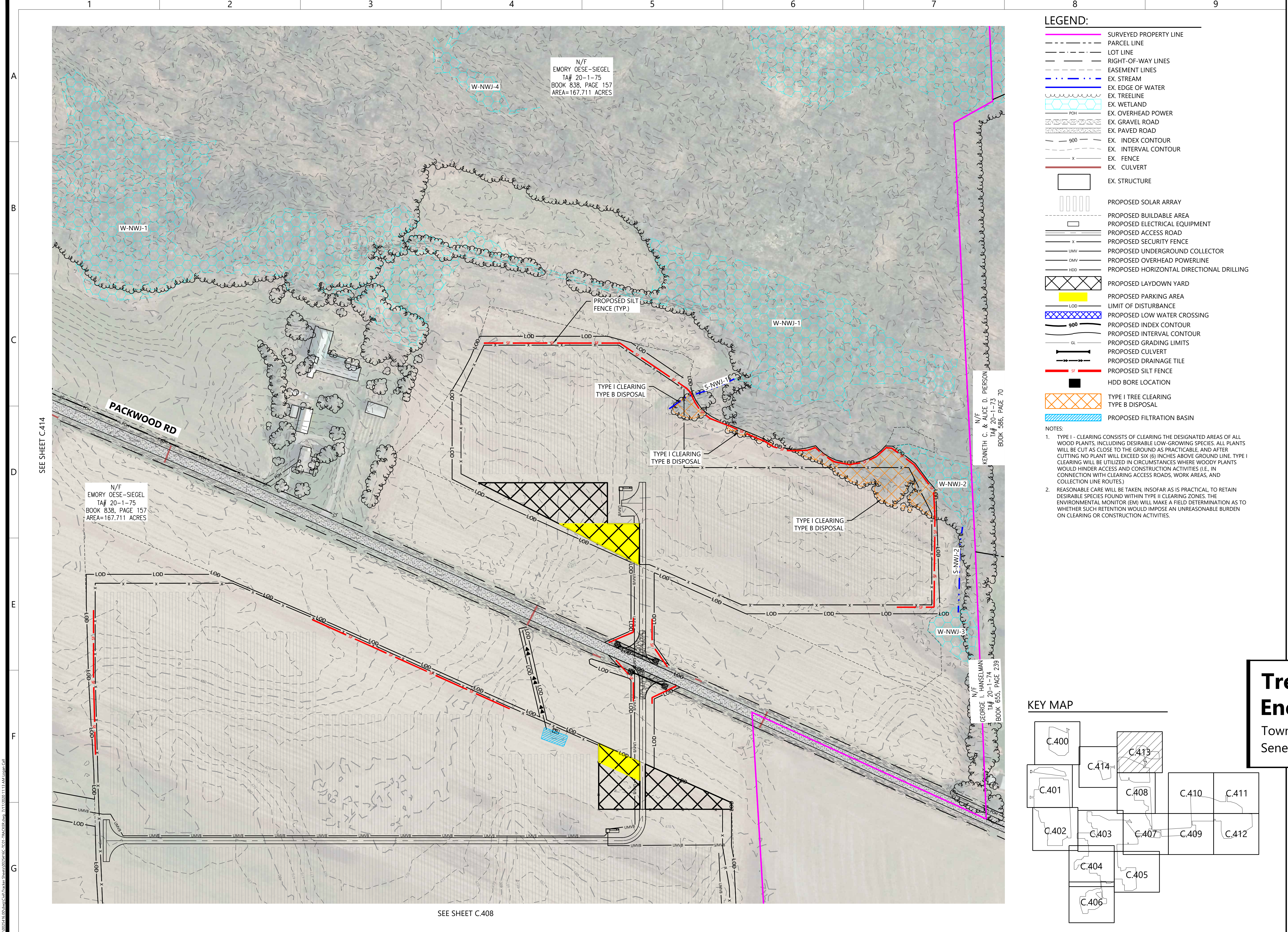
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- LEGEND:**
- SURVEYED PROPERTY LINE
 - PARCEL LINE
 - LOT LINE
 - RIGHT-OF-WAY LINES
 - EASEMENT LINES
 - EX. STREAM
 - EX. EDGE OF WATER
 - EX. TREELINE
 - EX. WETLAND
 - EX. OVERHEAD POWER
 - EX. GRAVEL ROAD
 - EX. PAVED ROAD
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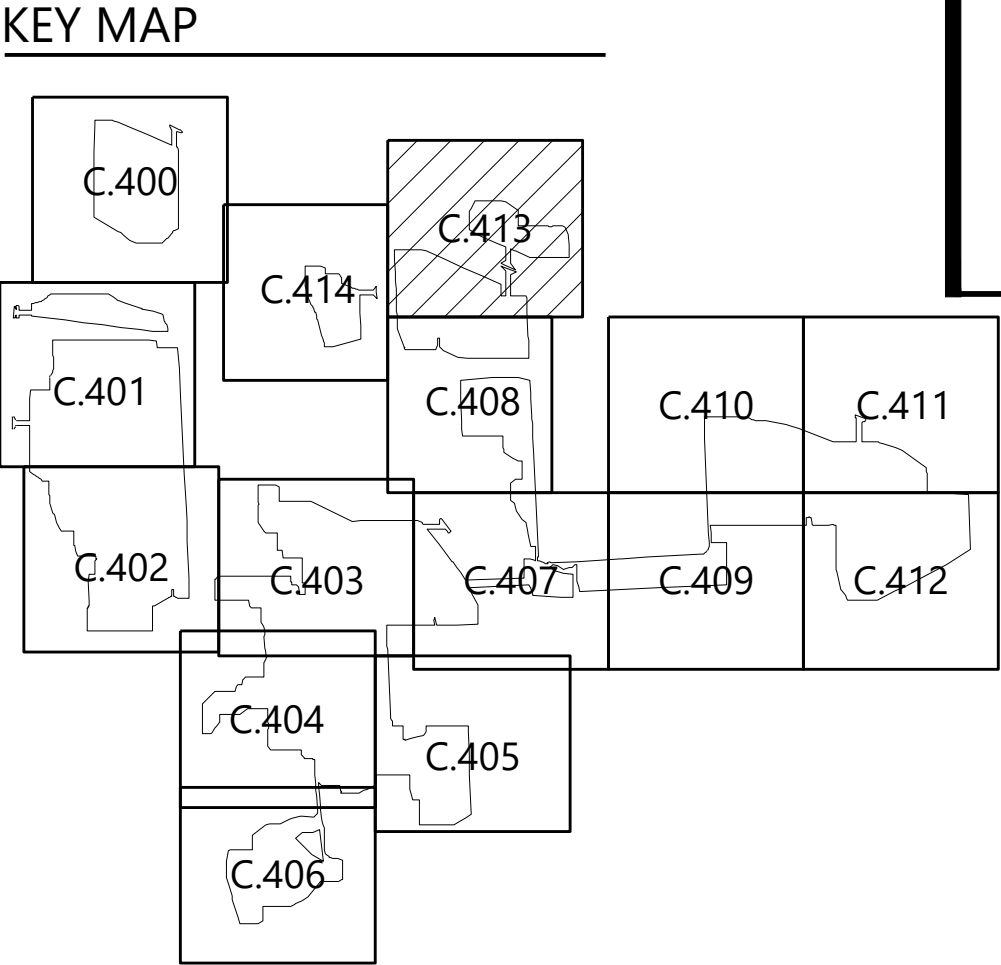
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NOTES:

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Tree Clearing Plan

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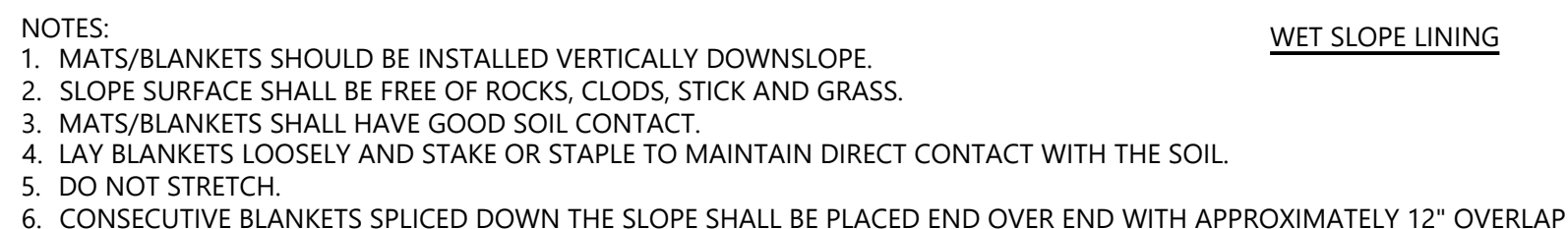
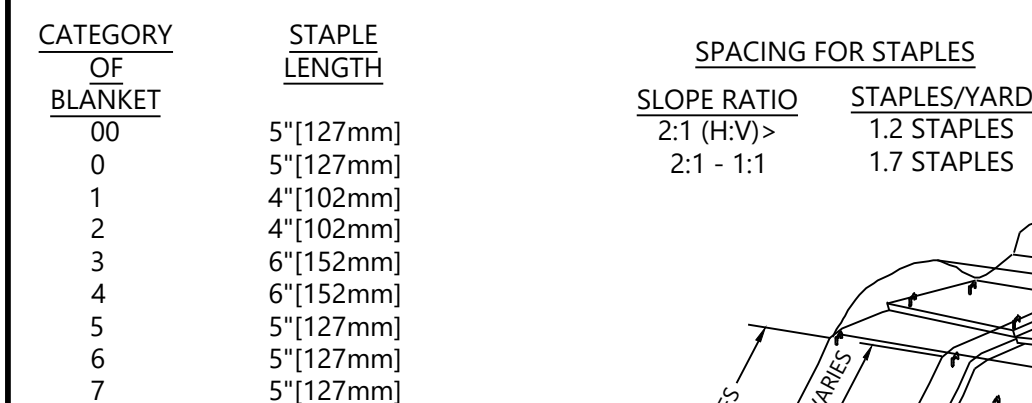
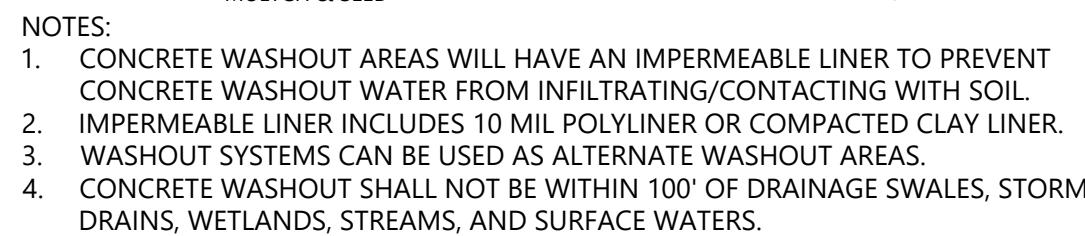
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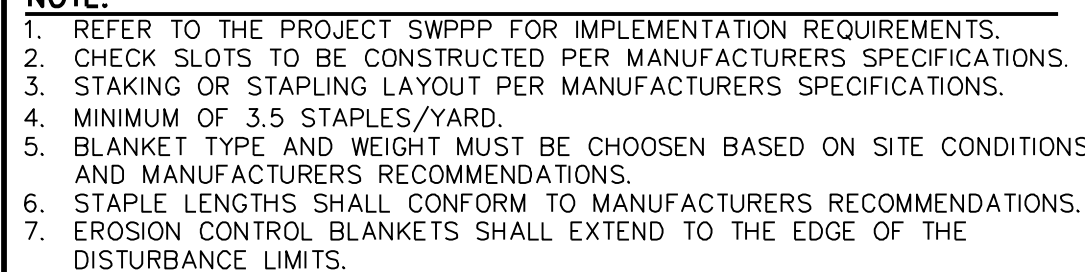


GD21

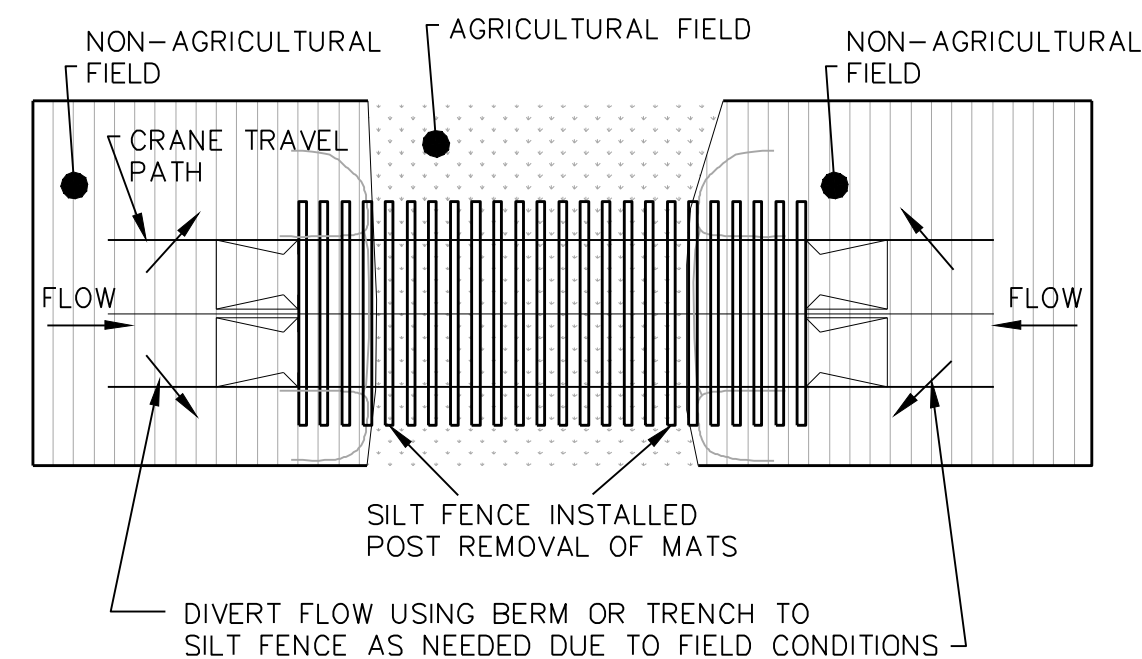


1. GROOVES WILL CATCH SEED, FERTILIZER, MULCH, RAINFALL AND DECREASE RUNOFF RATE.
2. USE SLOPE TRACKING FOR SLOPES 4:1 AND 50 FEET LONG OR STEEPER/LONGER.
3. USE TEMPORARY CONTOUR FURROWS FOR SLOPES 3:1 AND 75 FEET LONG OR STEEPER/LONGER.

GD09



GD22



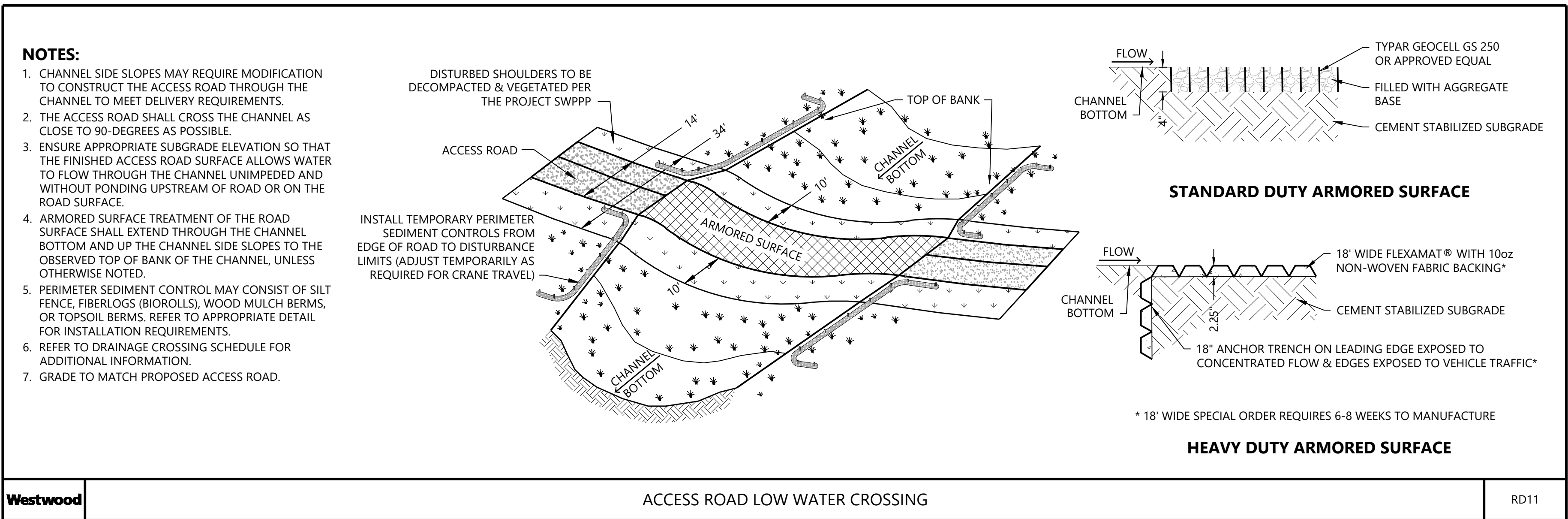
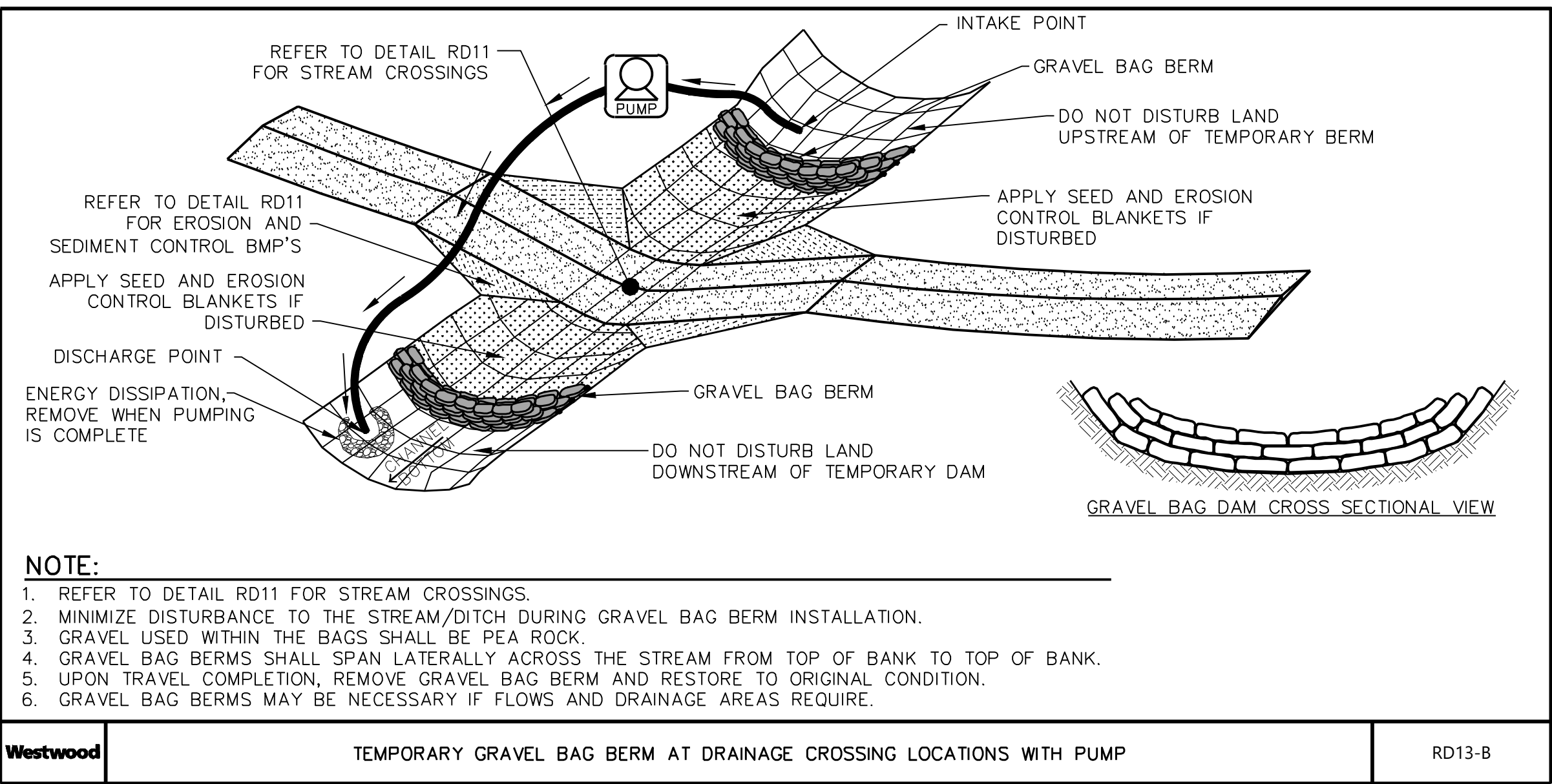
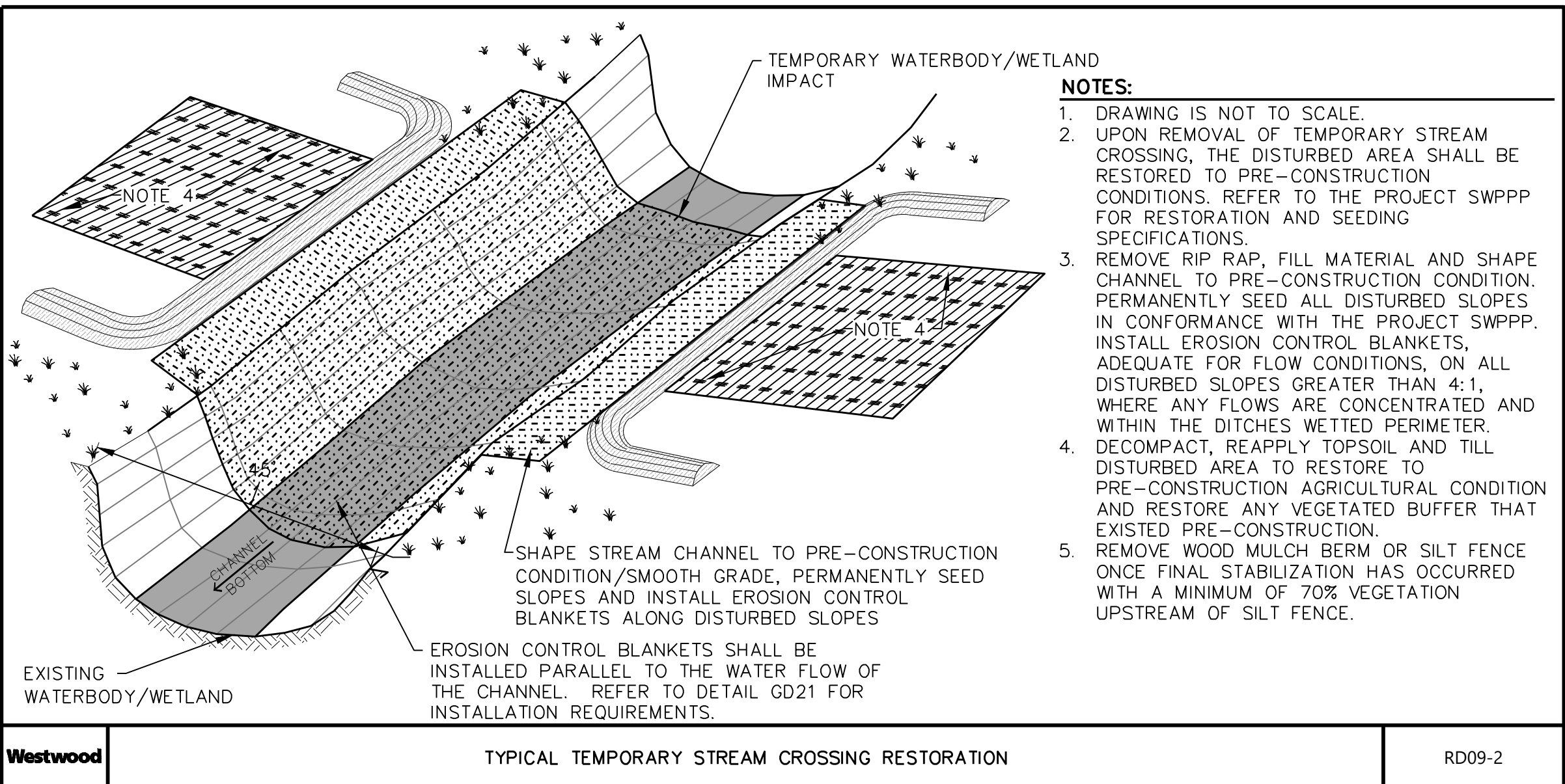
1. CRANE MATS SHALL BE SPACED TO ALLOW EXISTING DRAINAGE TO FLOW.
2. ALL DISTURBED AREA TO BE RESTORED ACCORDING TO THE PROJECT SWPPP AND NARRATIVE.
3. ALL WORK SHALL BE DONE DURING DRY CONDITIONS.
4. ALTERNATIVE METHODS MAY BE USED FOLLOWING APPROVAL FROM OWNER.
5. CONTRACTOR TO USE TIMBER MATTING ACROSS DESIGNATED AGRICULTURAL FIELDS. COORDINATE WITH ENVIRONMENTAL MONITOR (EM).
6. EROSION CONTROL BLANKETS SHALL BE INSTALLED ACCORDING TO MANUFACTURERS SPECIFICATIONS.
7. UPON REMOVAL OF CROSSING APPLY SEED AND EROSION CONTROL BLANKET TO FINAL GRADE TO RESTORE DITCHES AND SLOPES TO PRECONSTRUCTION CONDITION.

RD20

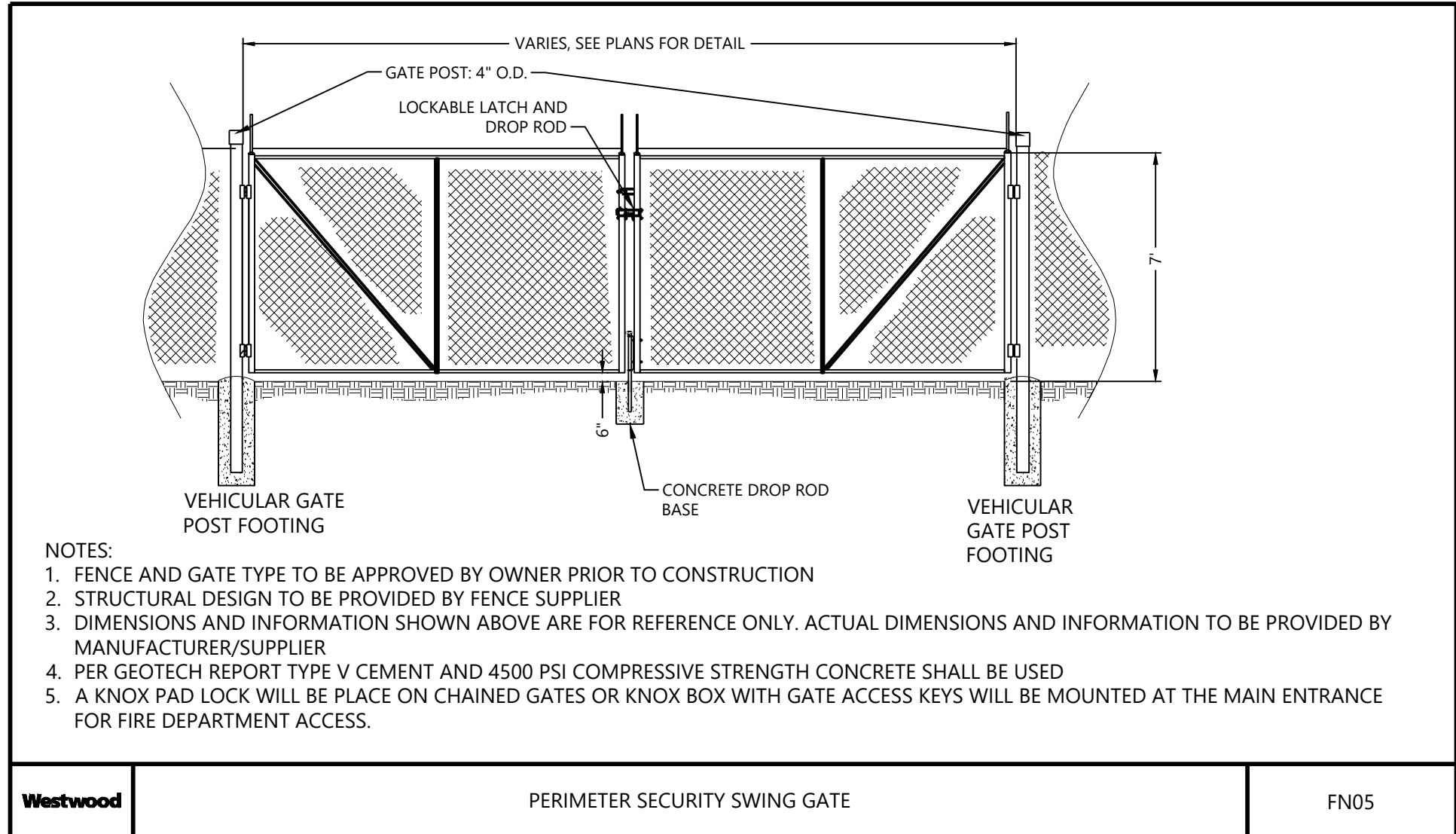
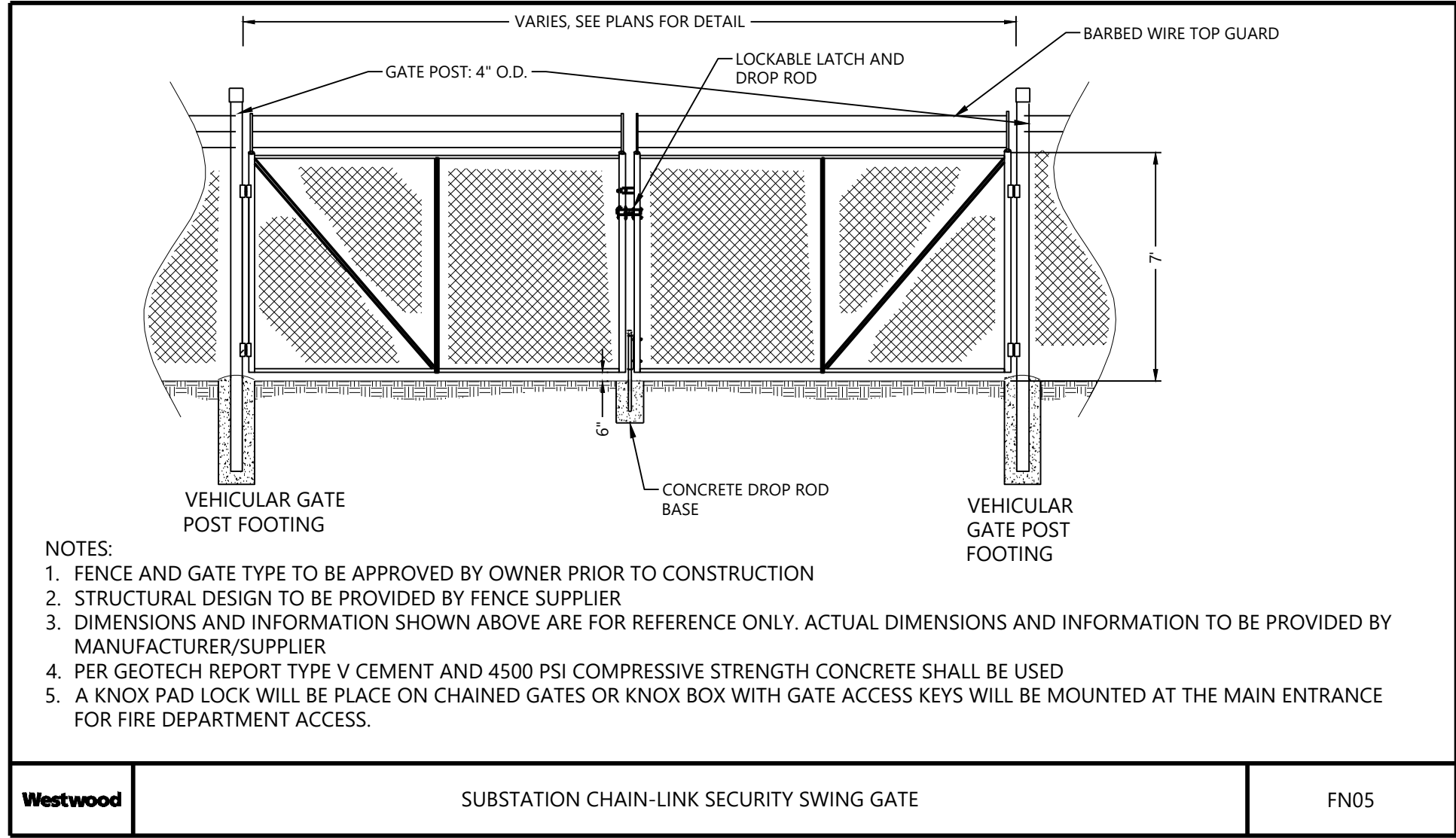
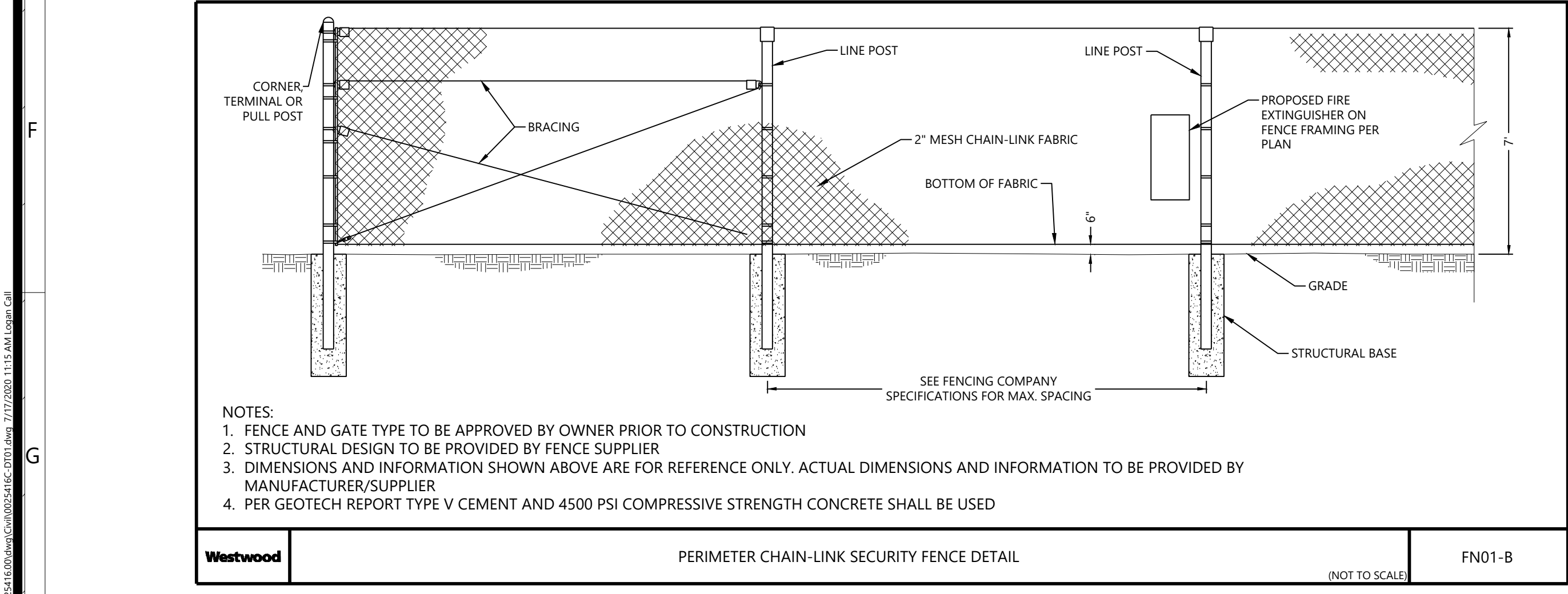
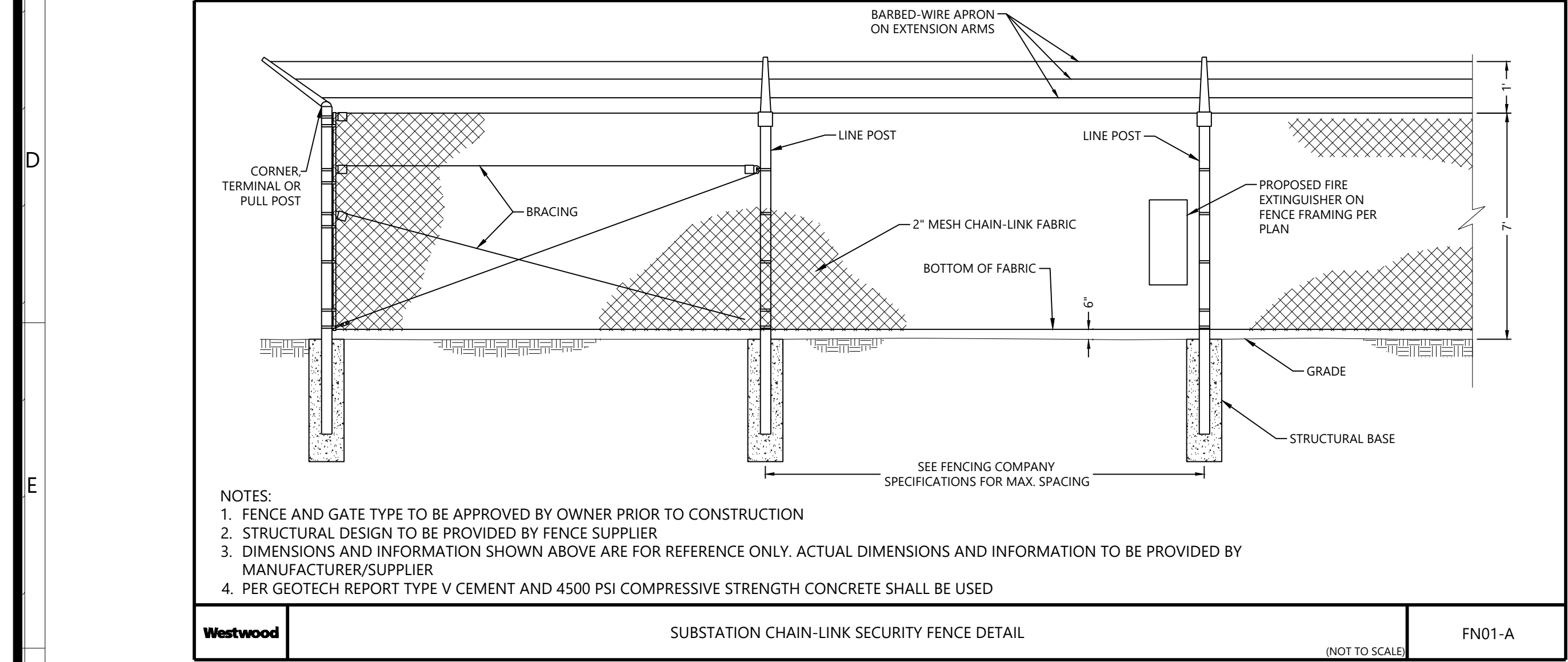
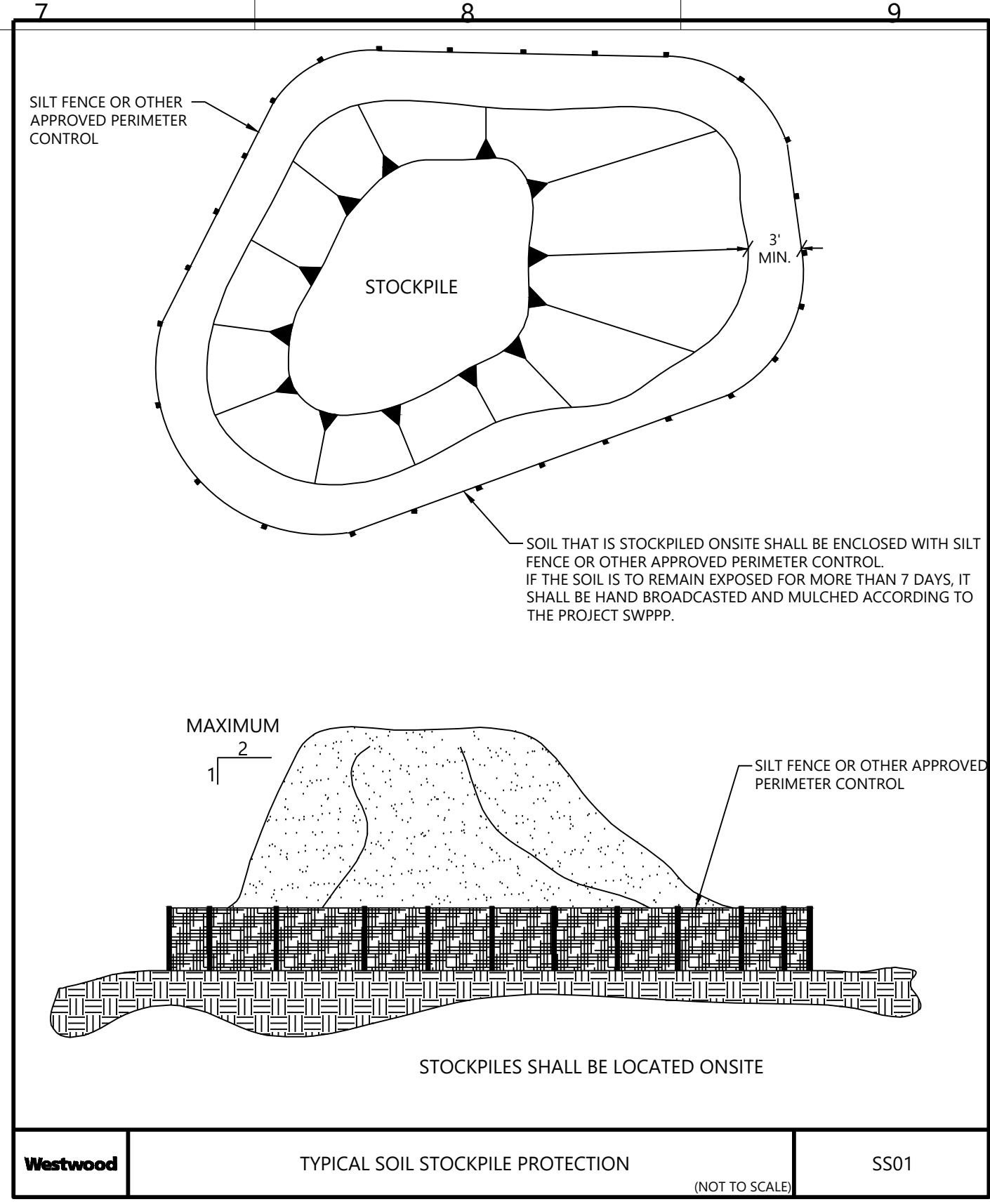
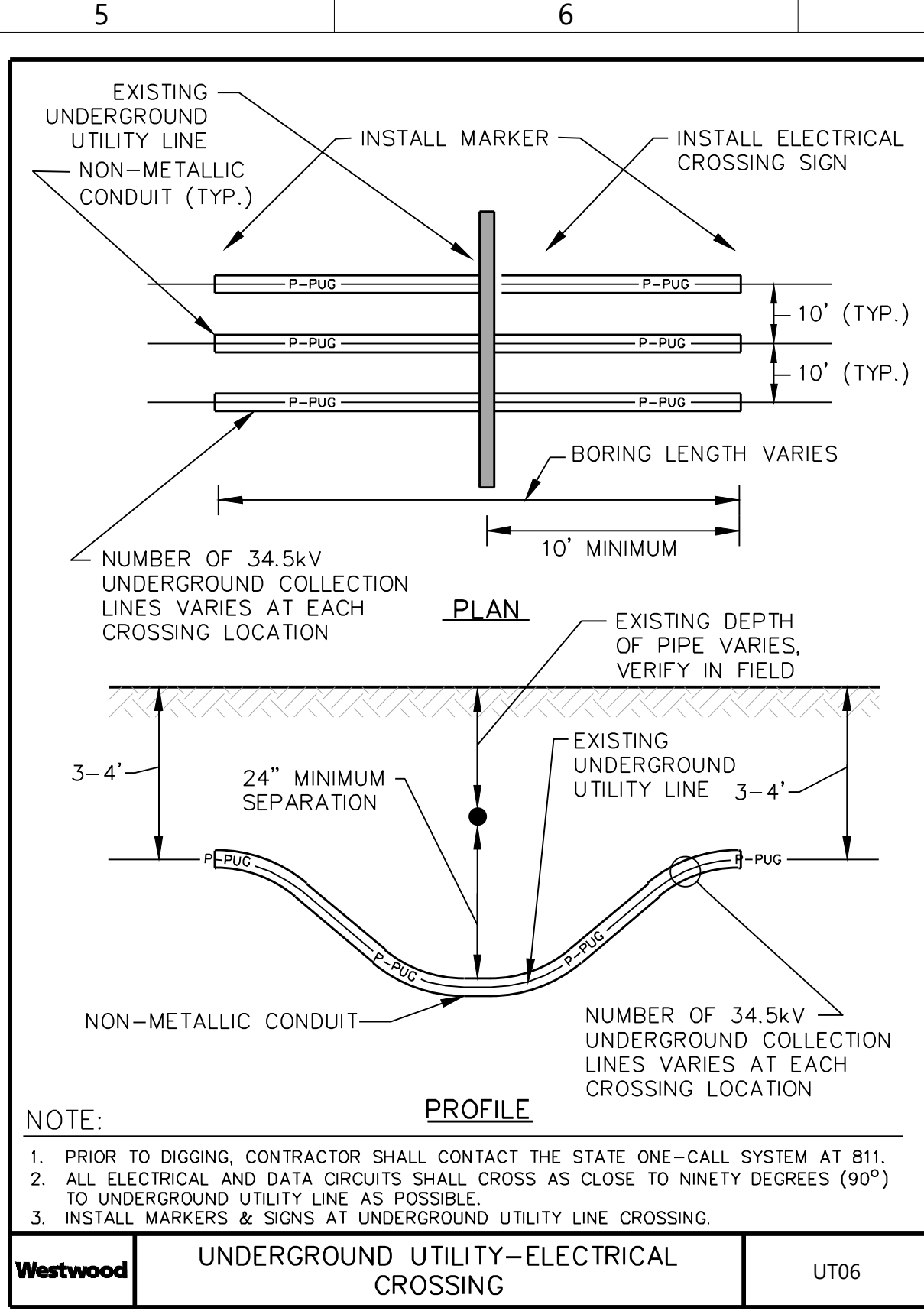
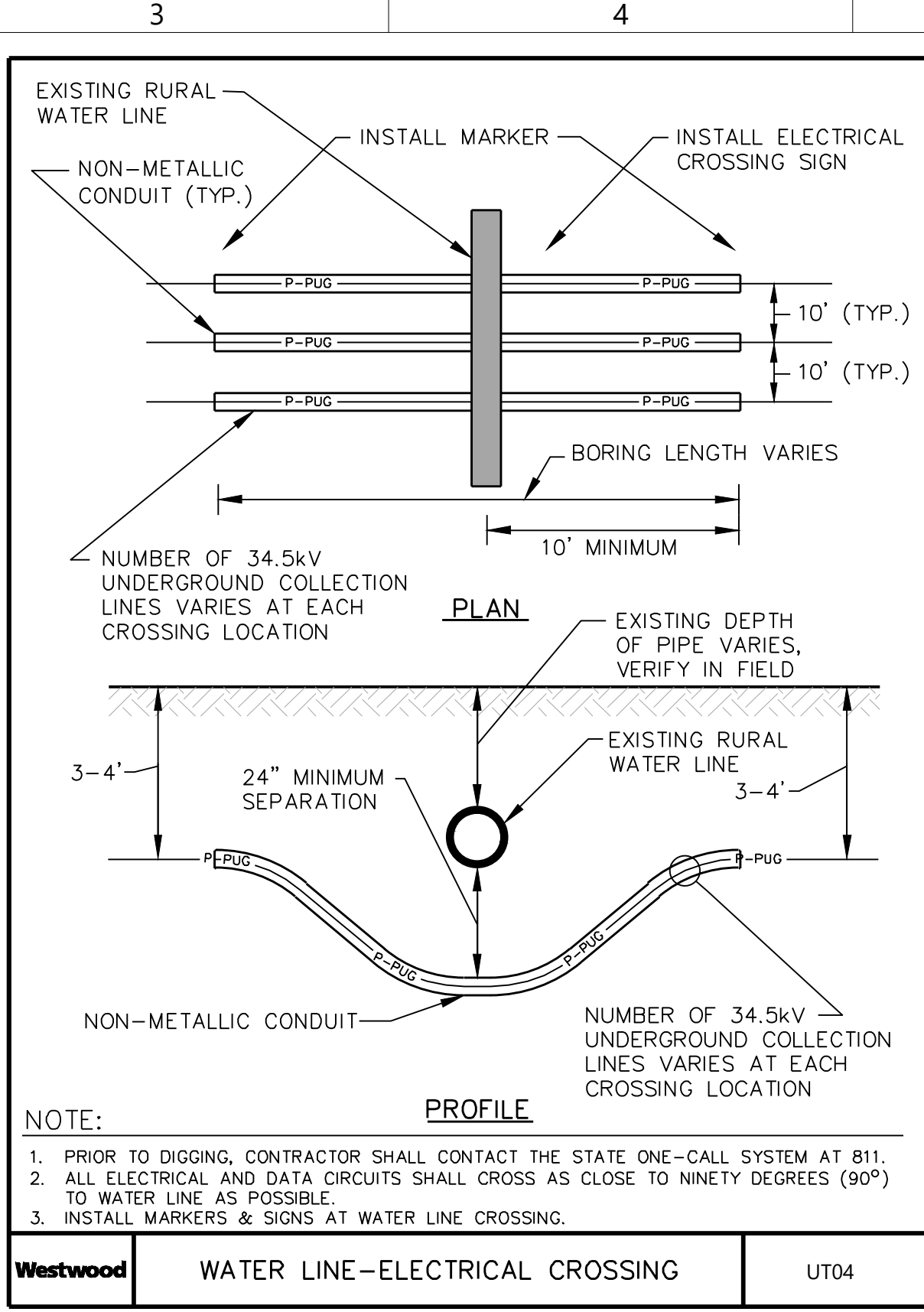
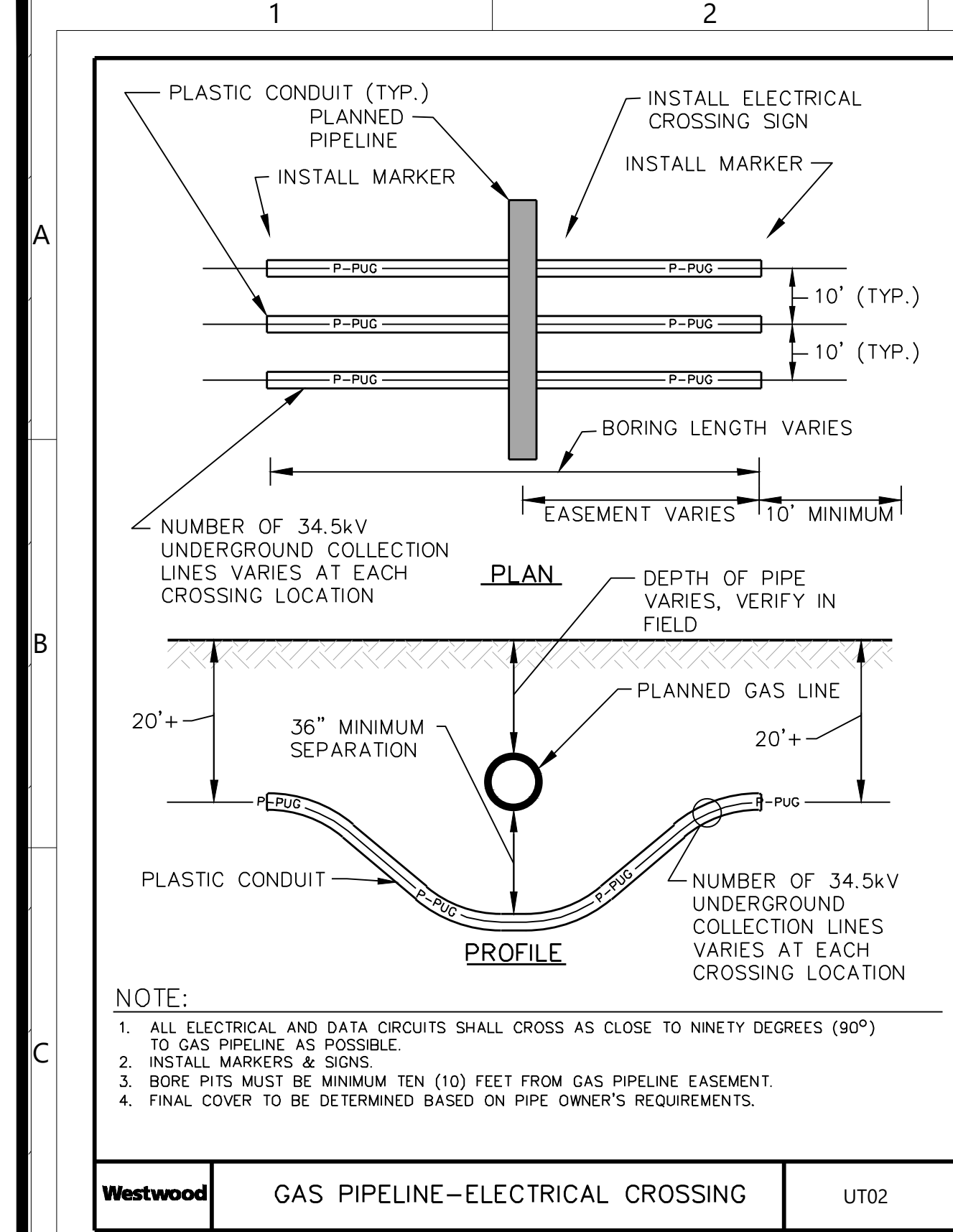


1. ALL CULVERTS SHALL HAVE MINIMUM 1' COVER. CONTRACTOR TO ADHERE TO PIPE MANUFACTURERS INSTALLATION GUIDELINES FOR COVER BASED ON LOADINGS AND INSTALLATION METHOD.
2. MINIMIZE DISTURBANCE TO THE STREAM/DITCH DURING CULVERT INSTALLATION/REMOVAL.
3. FILL MATERIAL FOR CULVERT INSTALLATION MAY CONSIST OF NATIVE NON-ORGANIC MATERIAL AND SHALL BE COMPACTED TO 95% COMPACTION.
4. CULVERTS WITHIN THE R.O.W. SHALL BE INSTALLED PER THE COUNTY REQUIREMENTS.

RD10



SHEET: C.601



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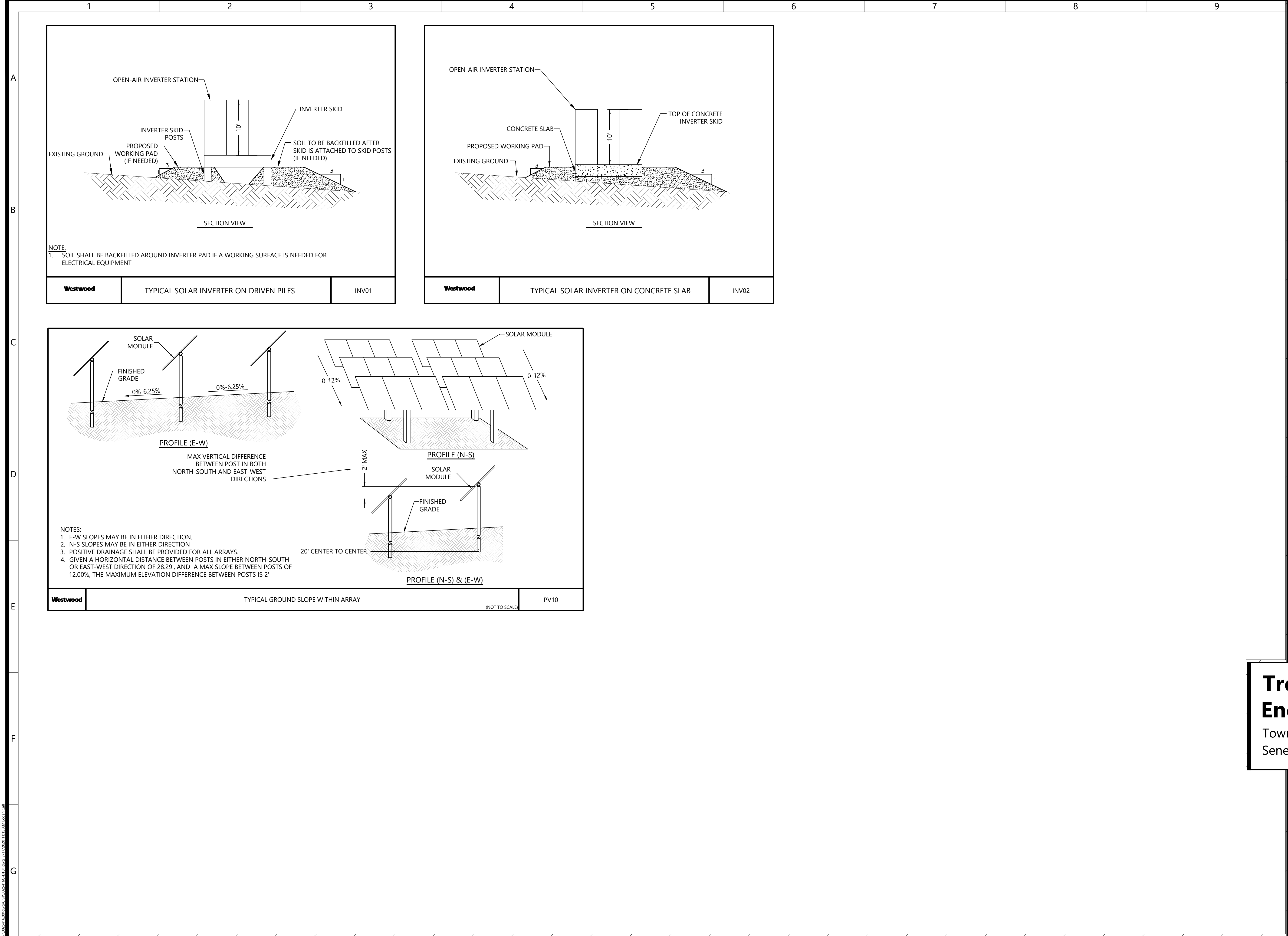
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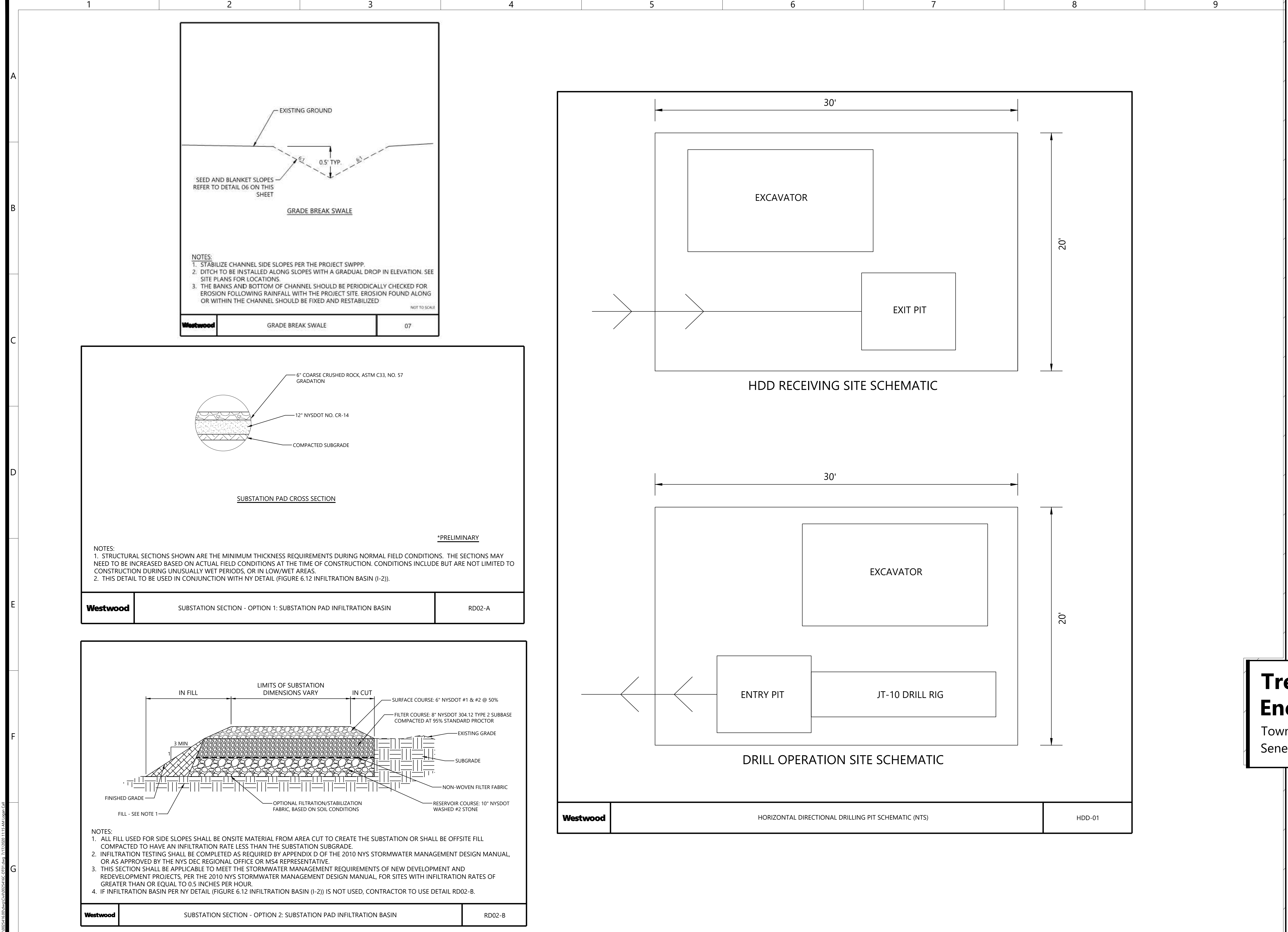
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Figure 2.1
Stabilized Construction Access

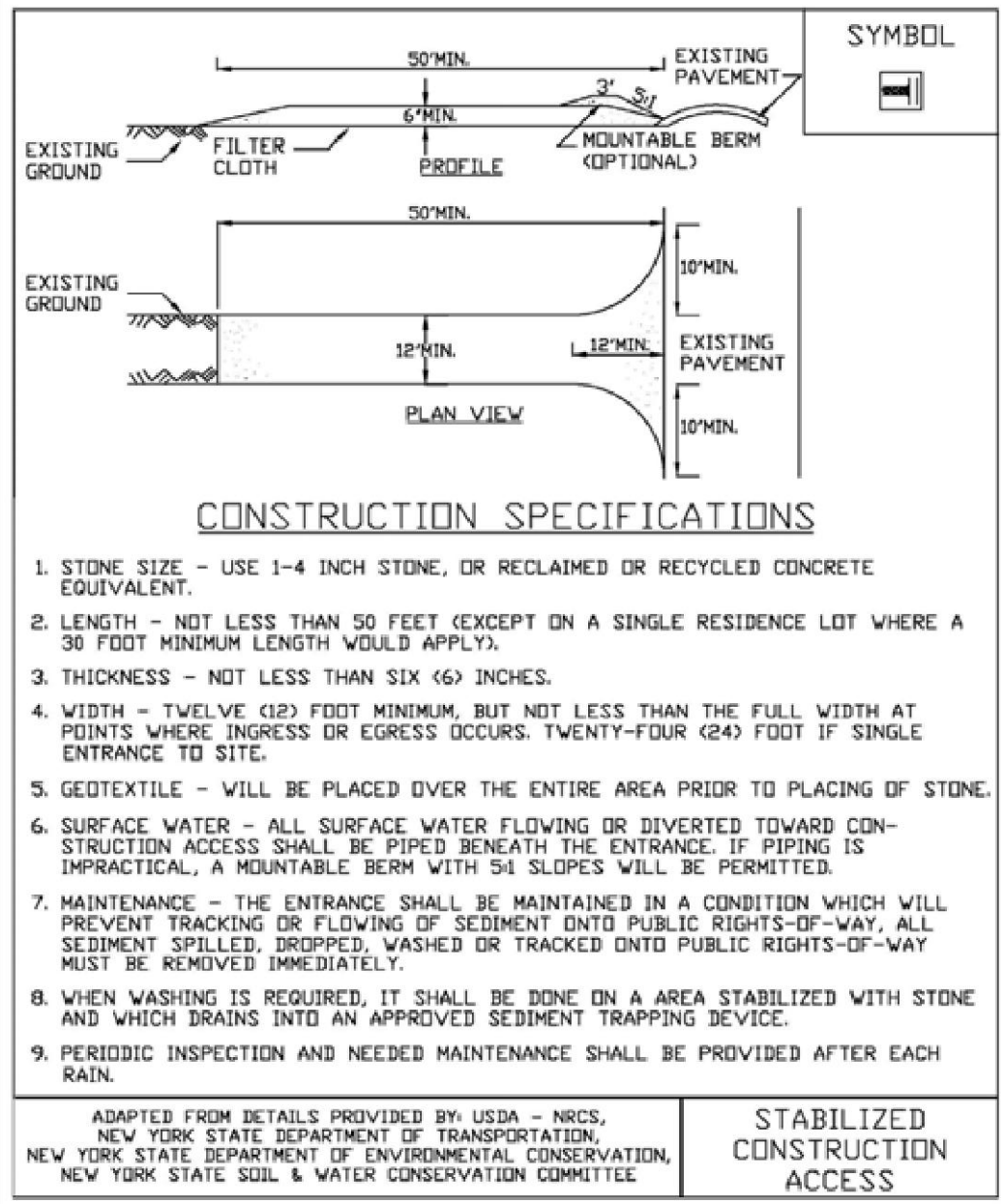


Figure 2.2
Temporary Access Bridge

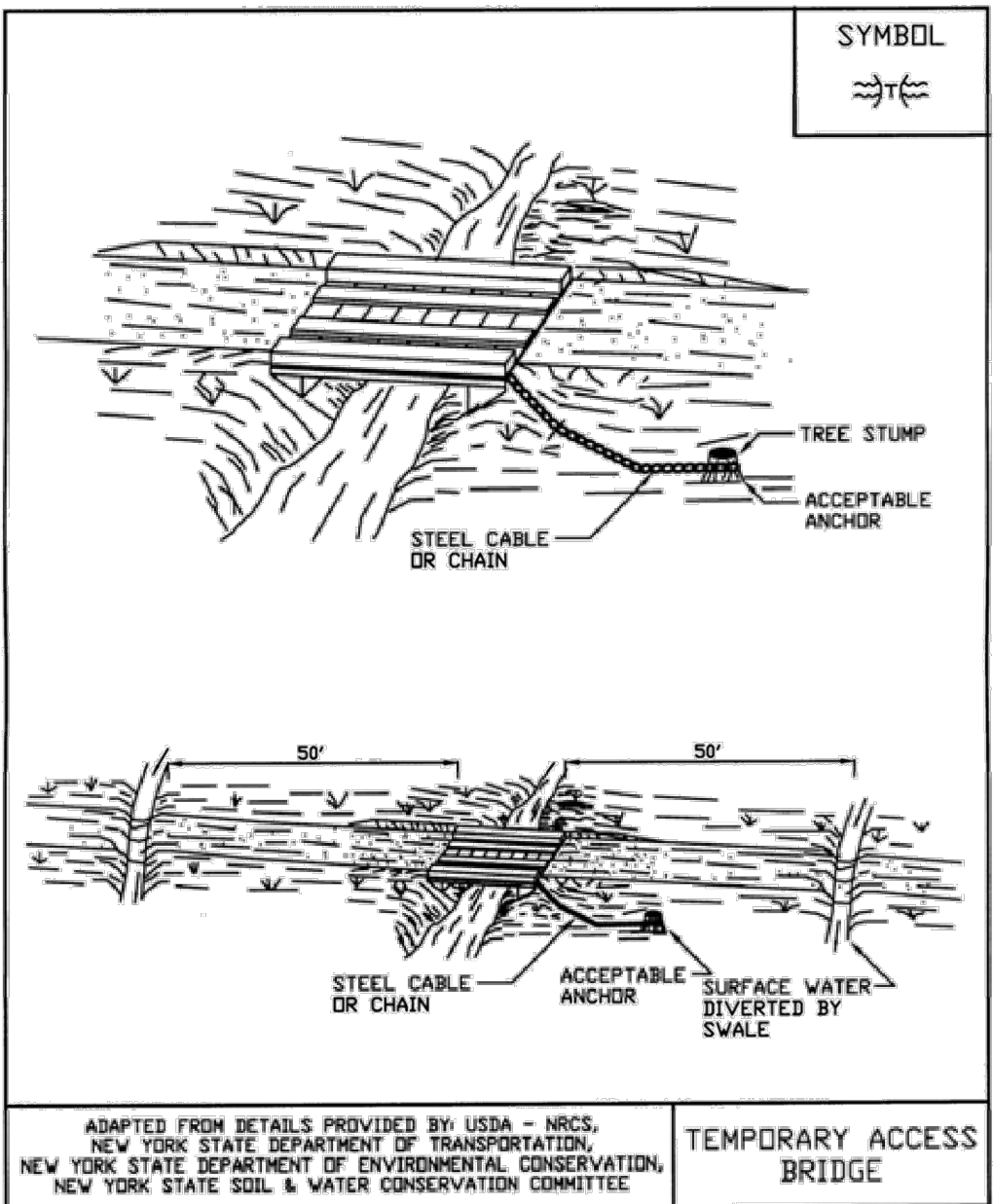


Figure 2.3
Temporary Access Culvert

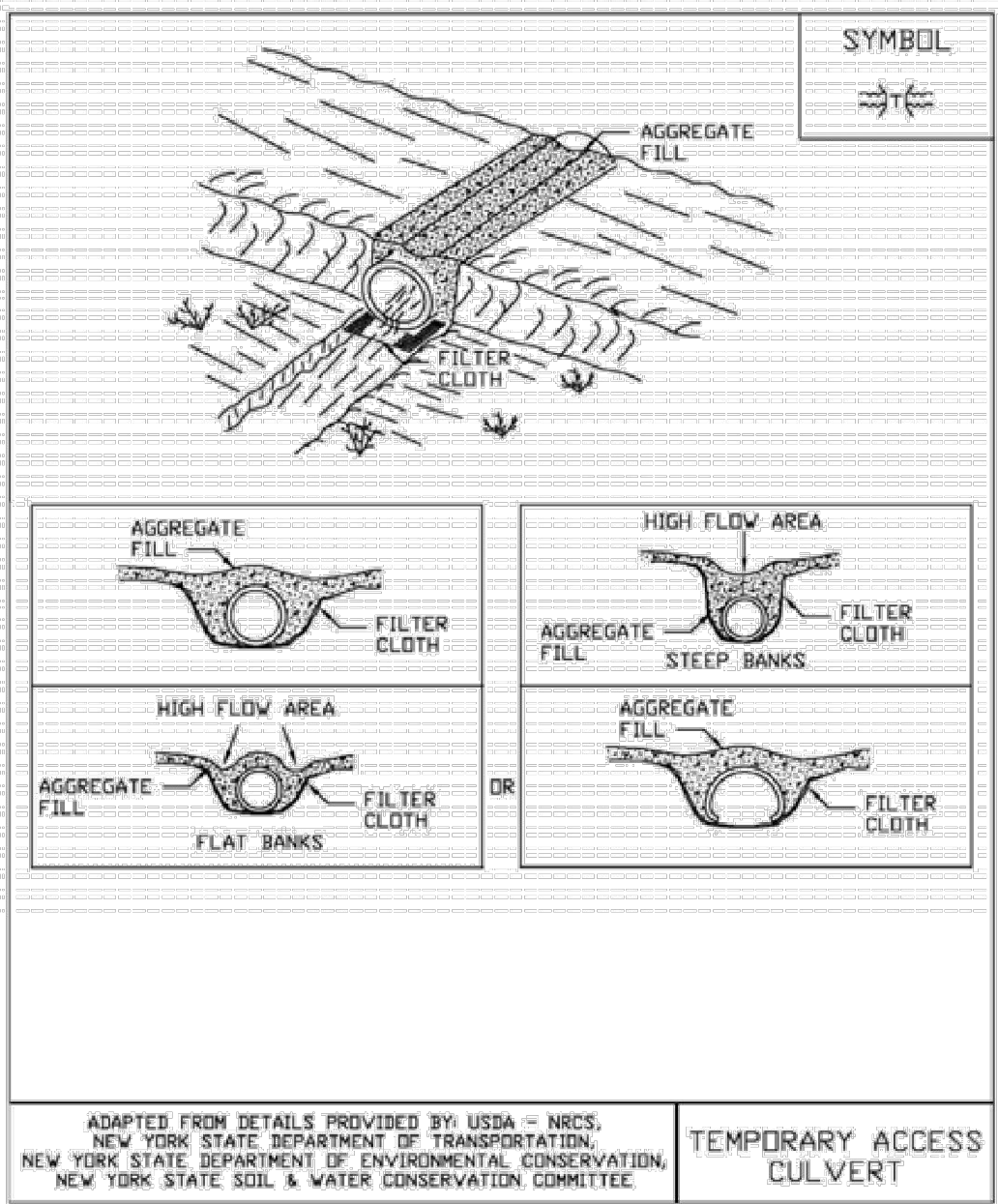


Figure 3.1
Stone Check Dam Detail

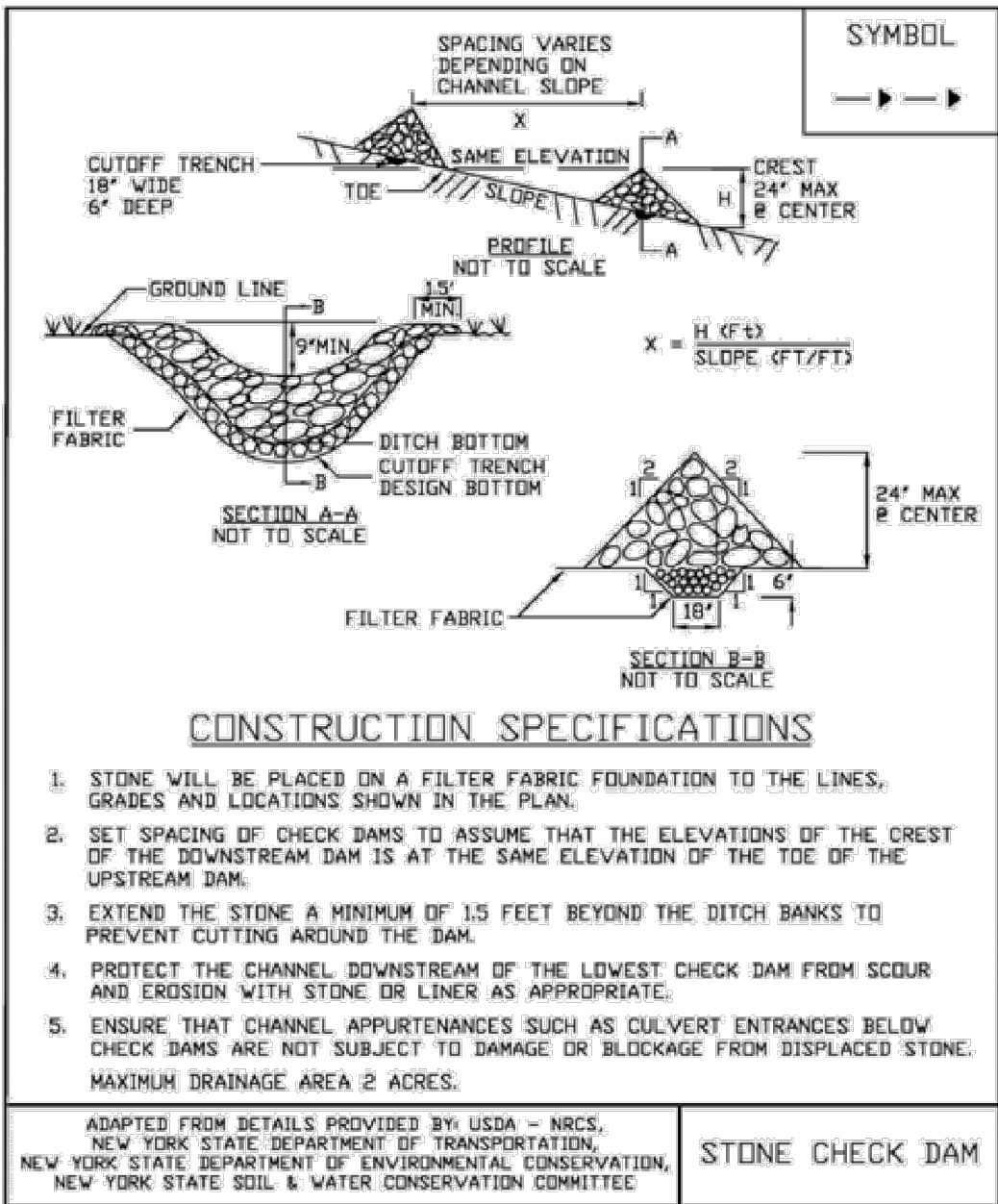
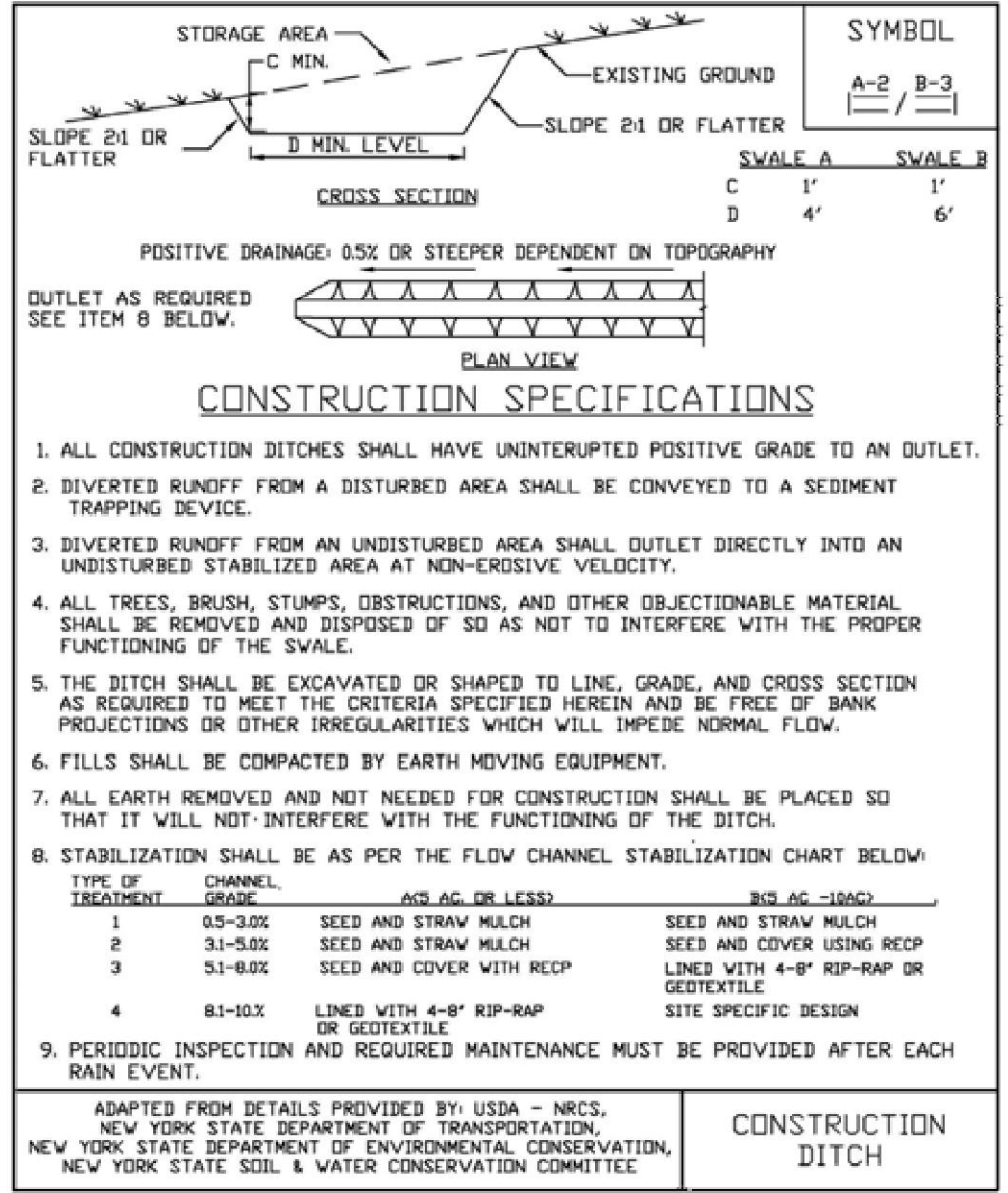


Figure 3.2
Construction Ditch Detail



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New York Erosion
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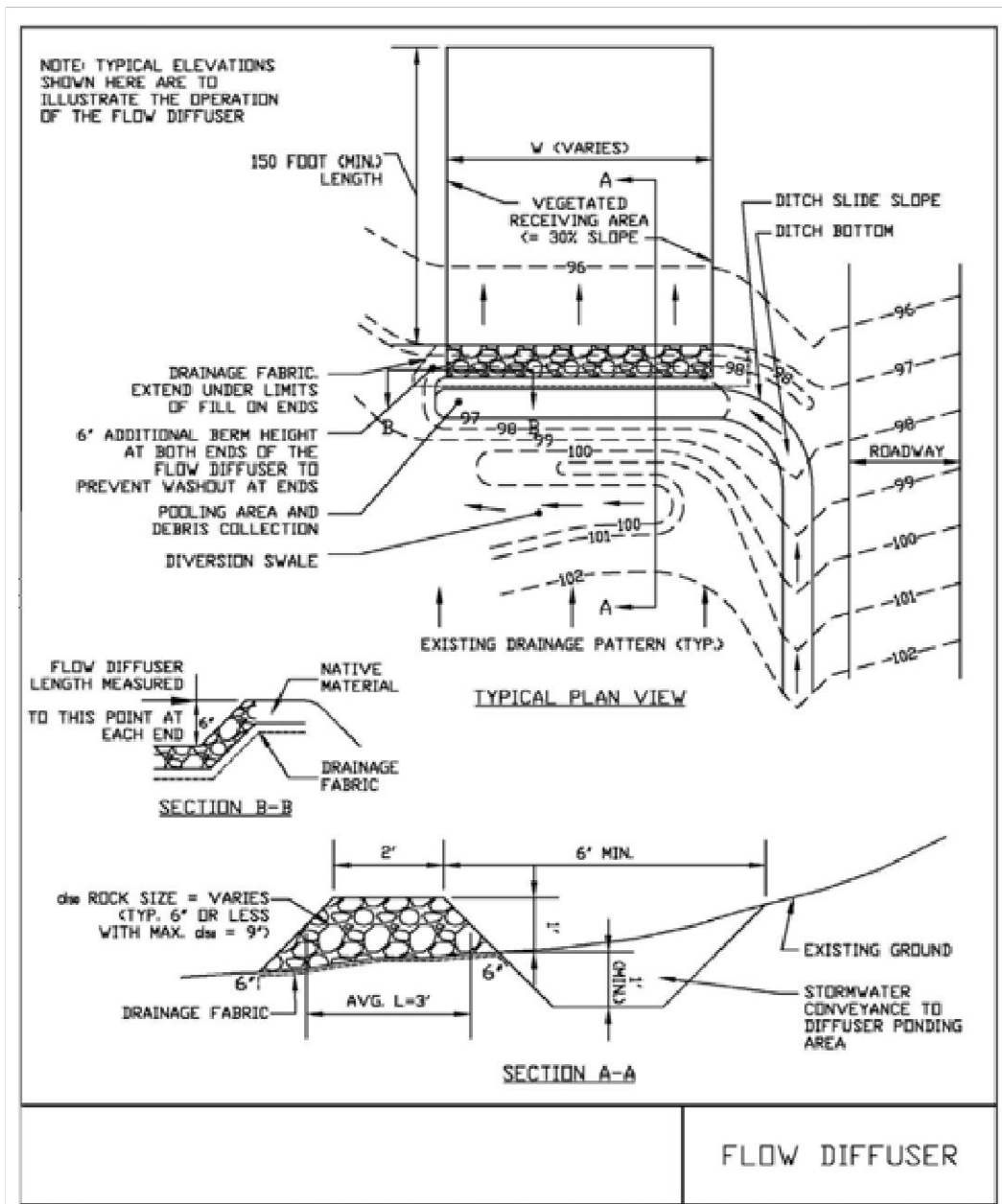
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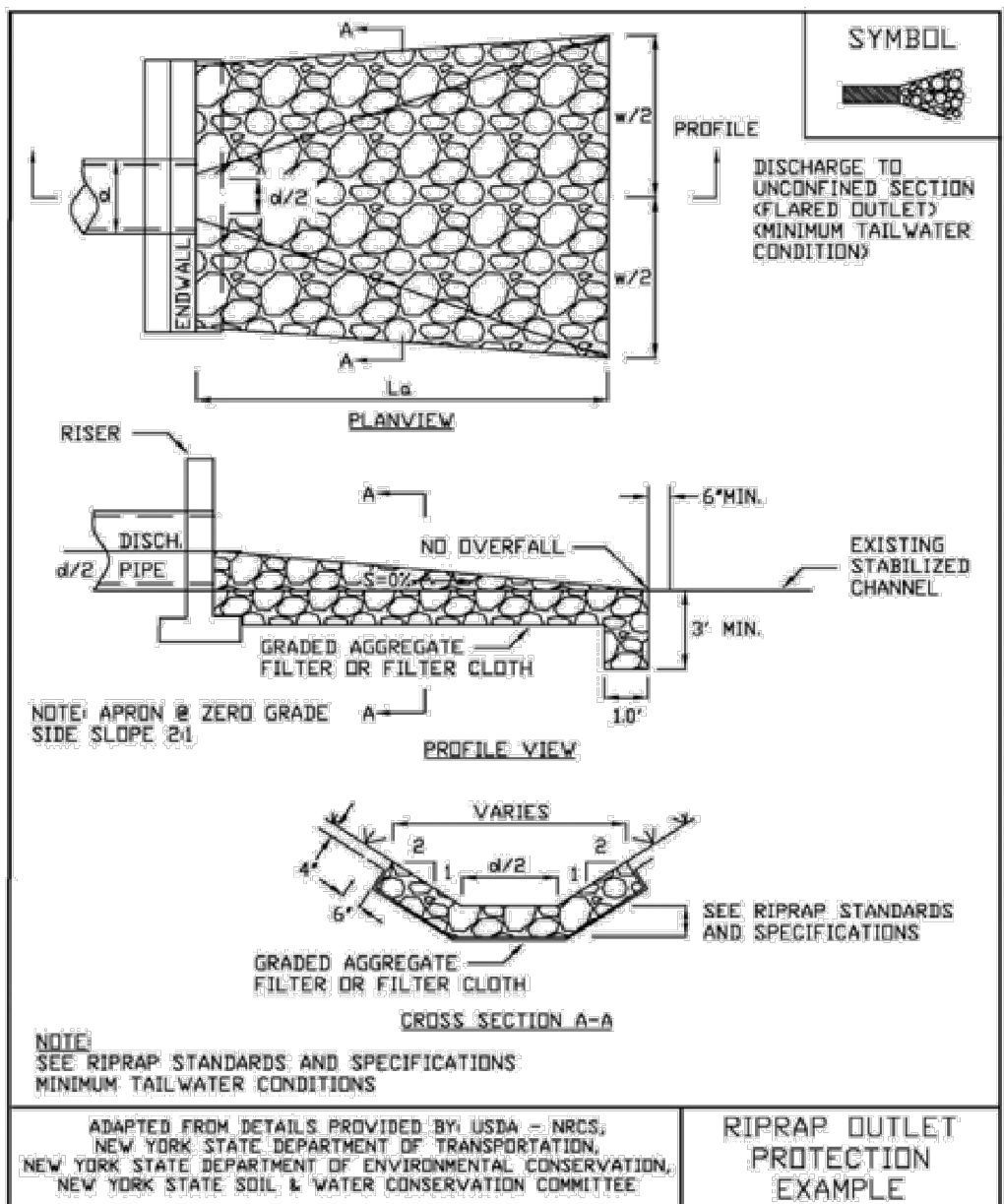
A
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Figure 3.6
Flow Diffuser Detail



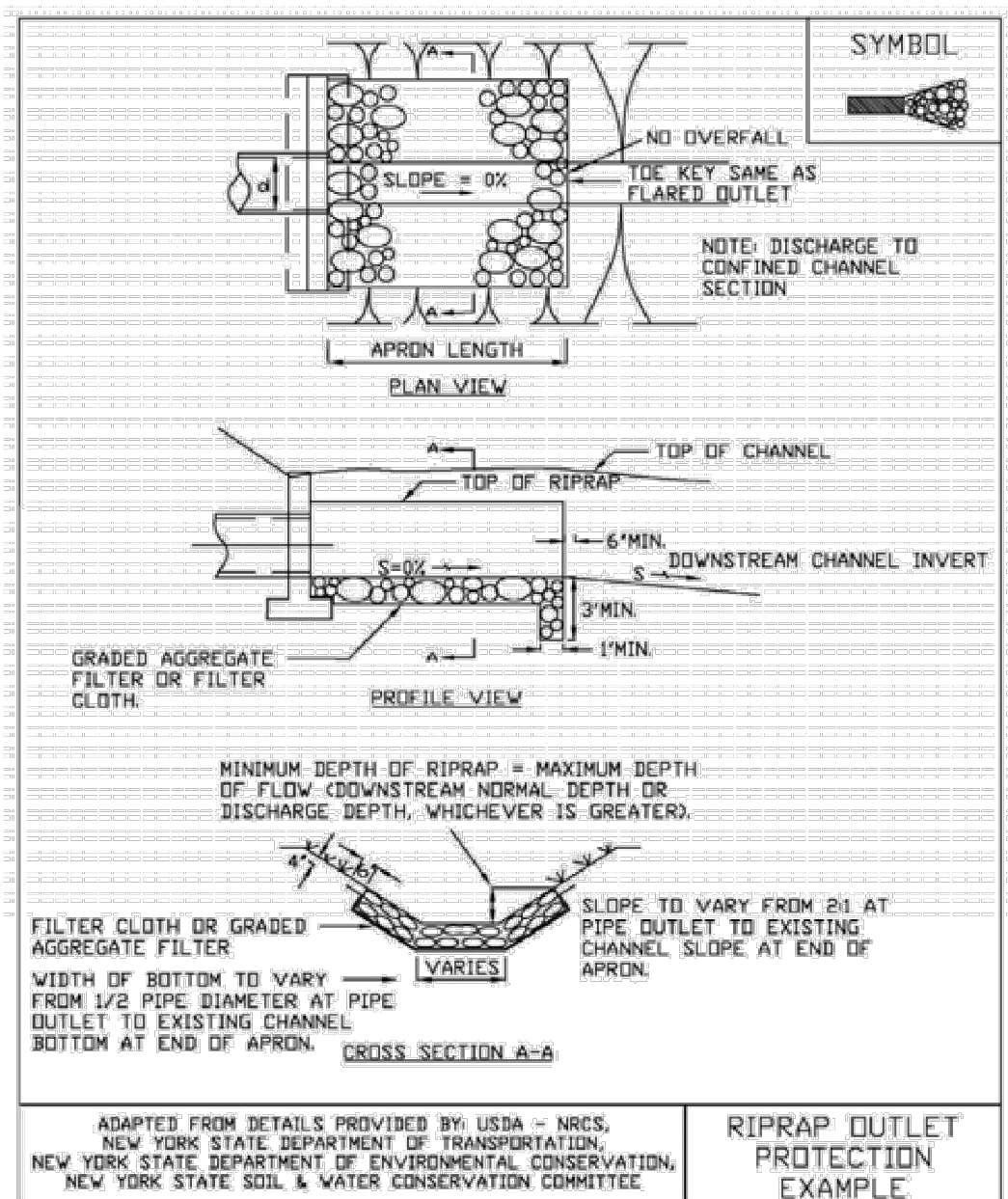
November 2016 Page 3.18 New York State Standards and Specifications For Erosion and Sediment Control

Figure 3.18
Riprap Outlet Protection Detail (1)



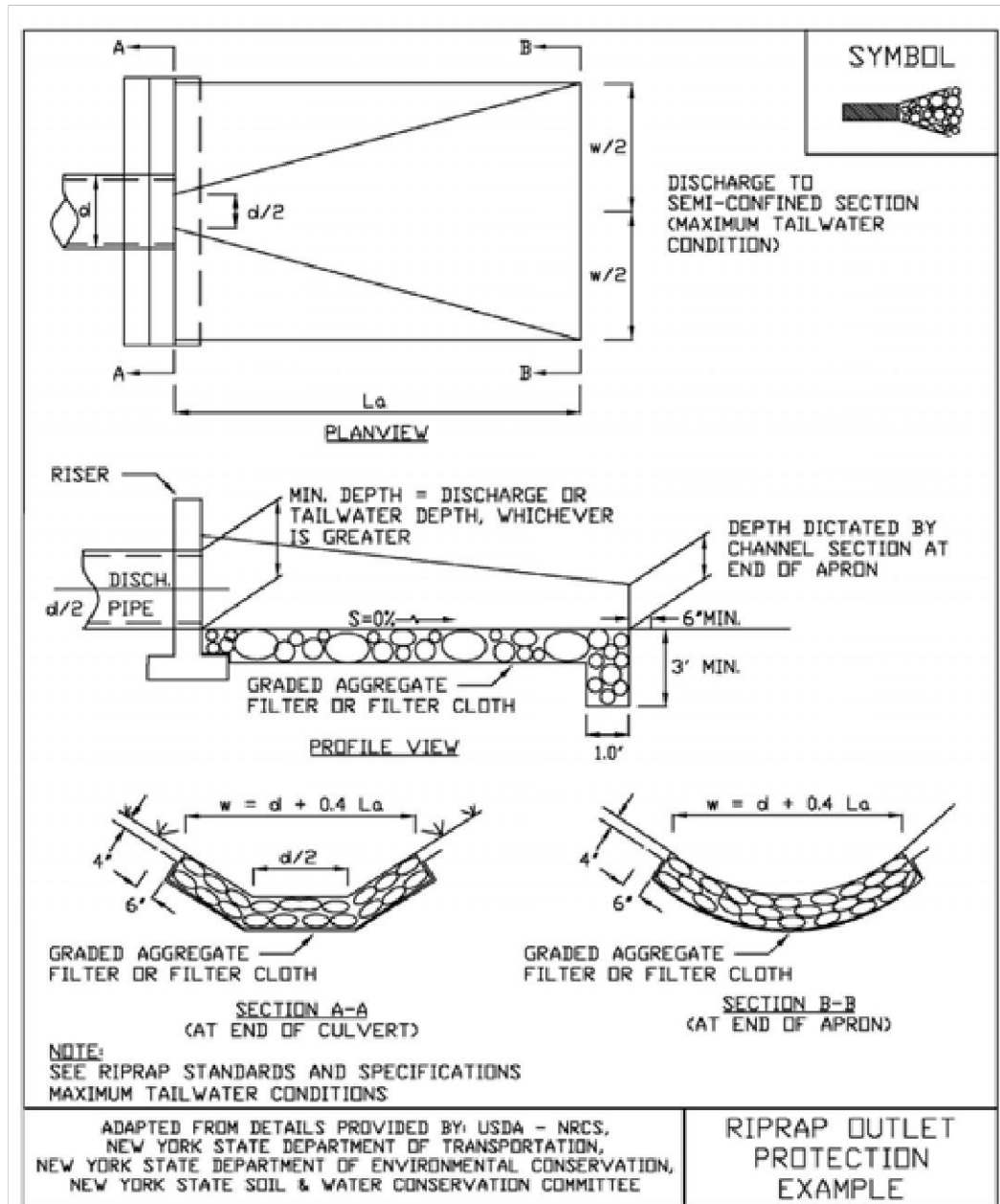
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Figure 3.19
Riprap Outlet Protection Detail (2)



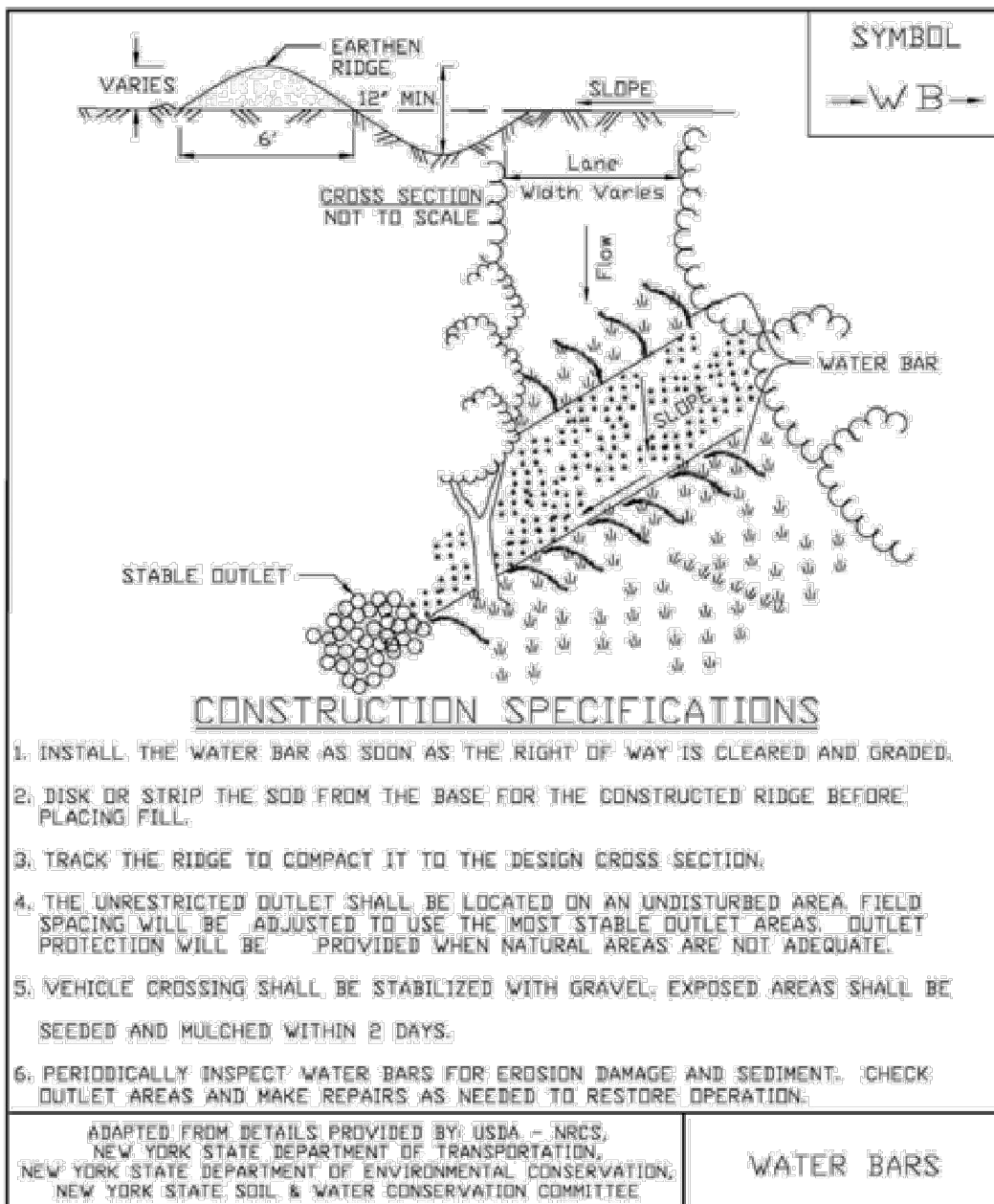
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Figure 3.20
Riprap Outlet Protection Detail (3)



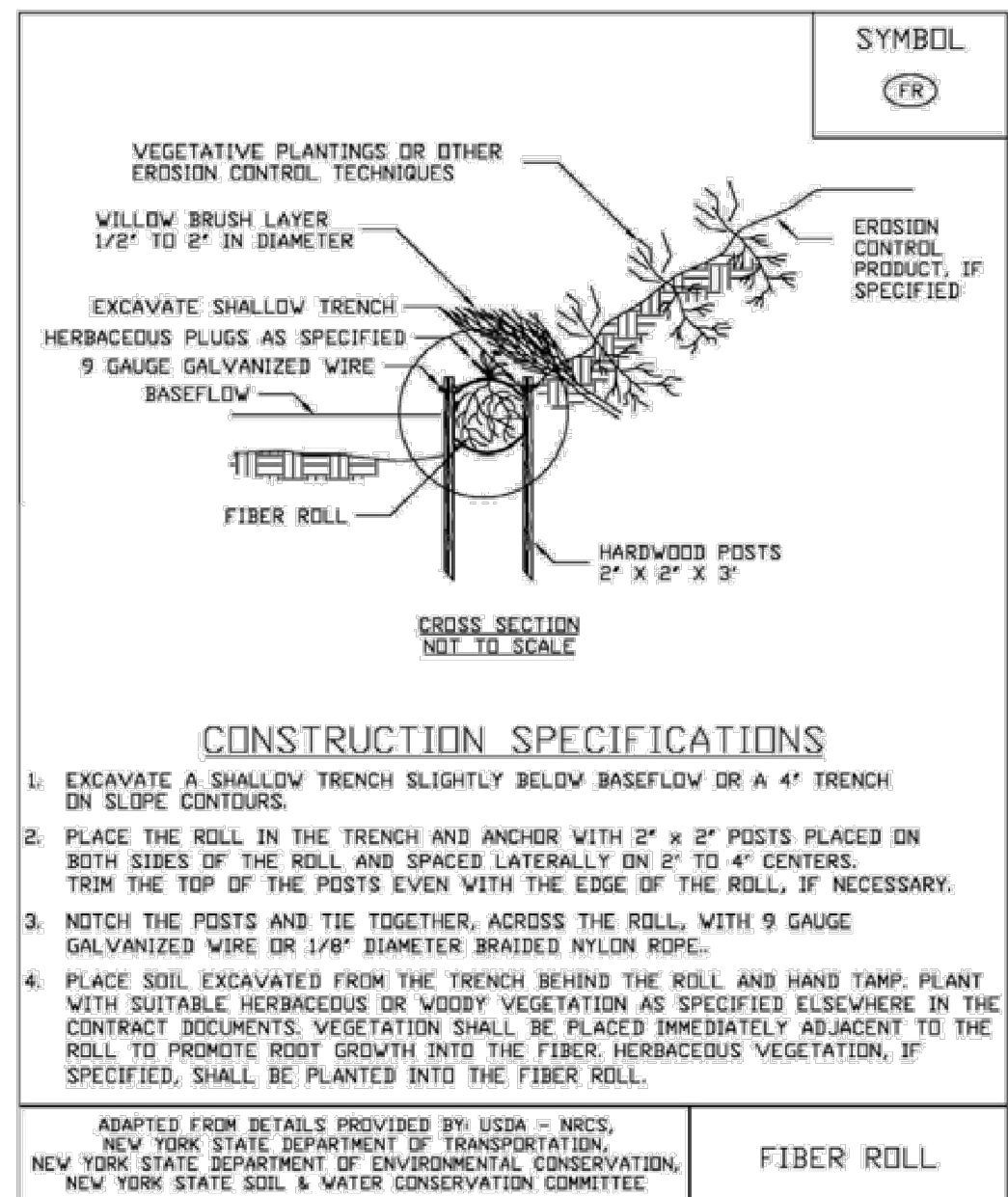
November 2016 Page 3.46 New York State Standards and Specifications For Erosion and Sediment Control

Figure 3.22
Water Bar Detail



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Figure 4.8
Fiber Roll



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Figure 4.1
Angles of Repose of Riprap Stones (FHWA)

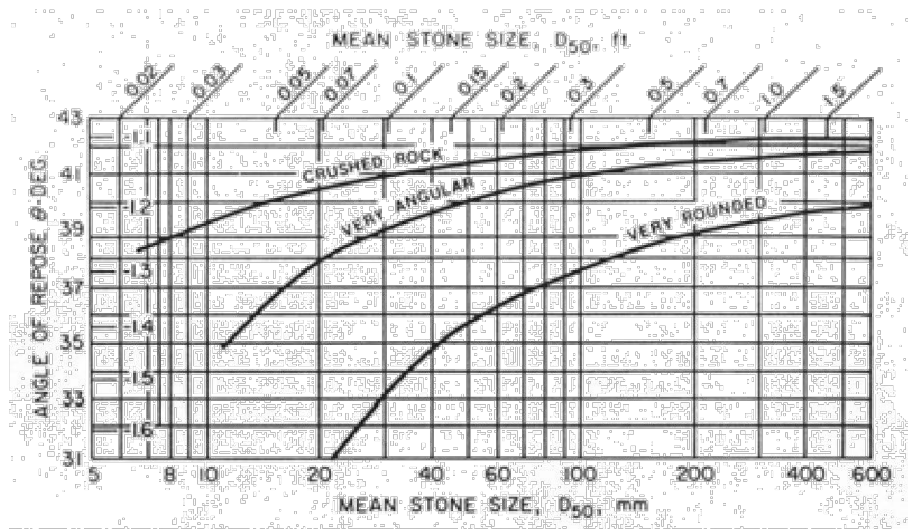
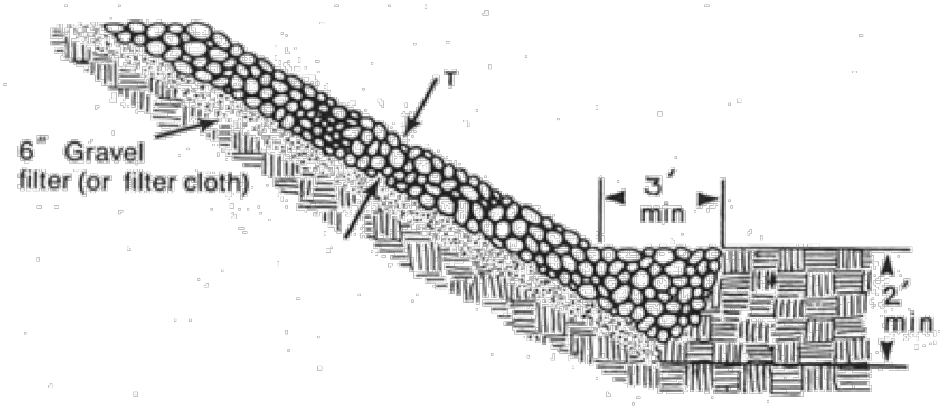


Figure 4.2
Typical Riprap Slope Protection Detail

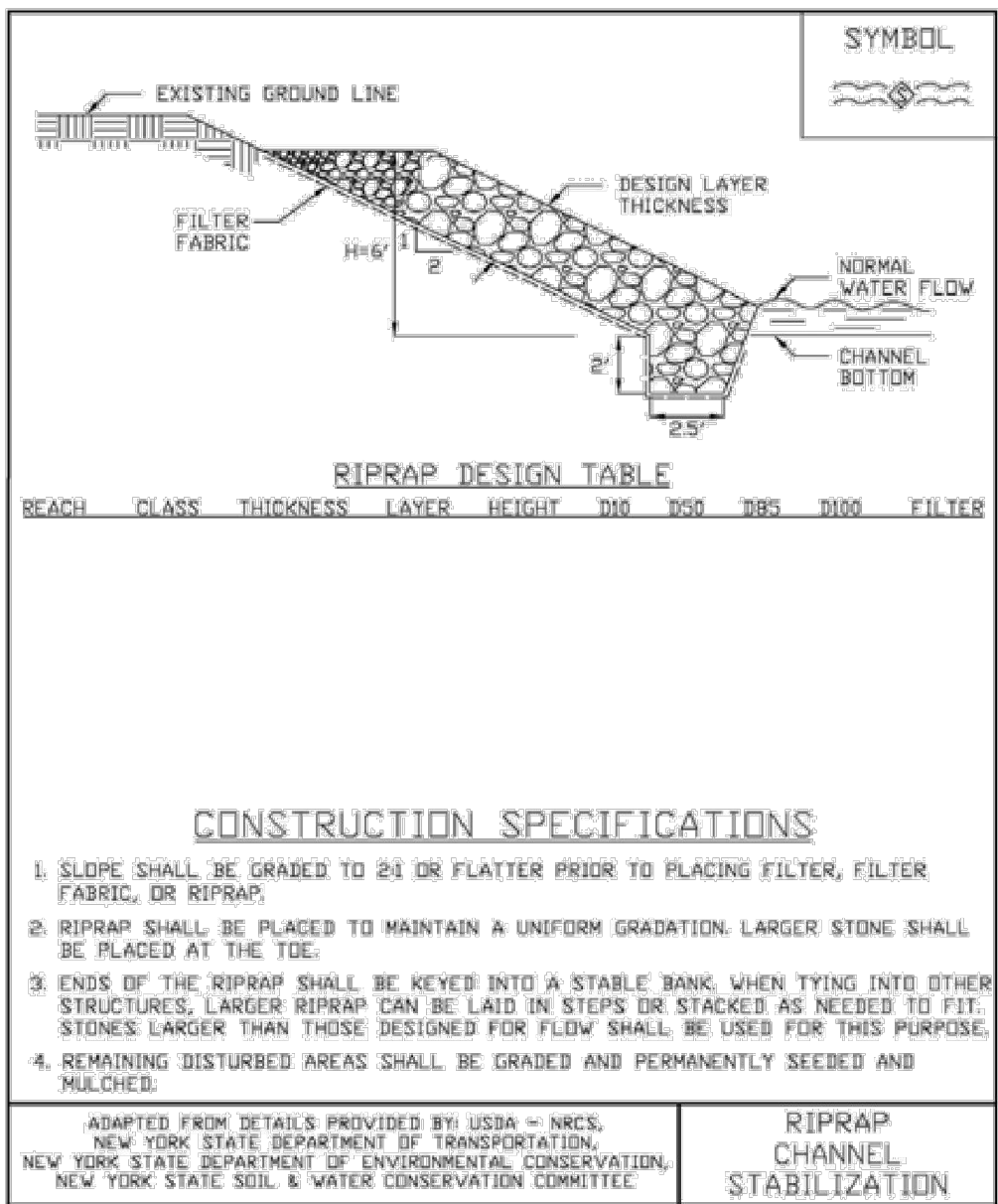


New York State Standards and Specifications
For Erosion and Sediment Control

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November 2016

Figure 4.3
Riprap Channel Stabilization

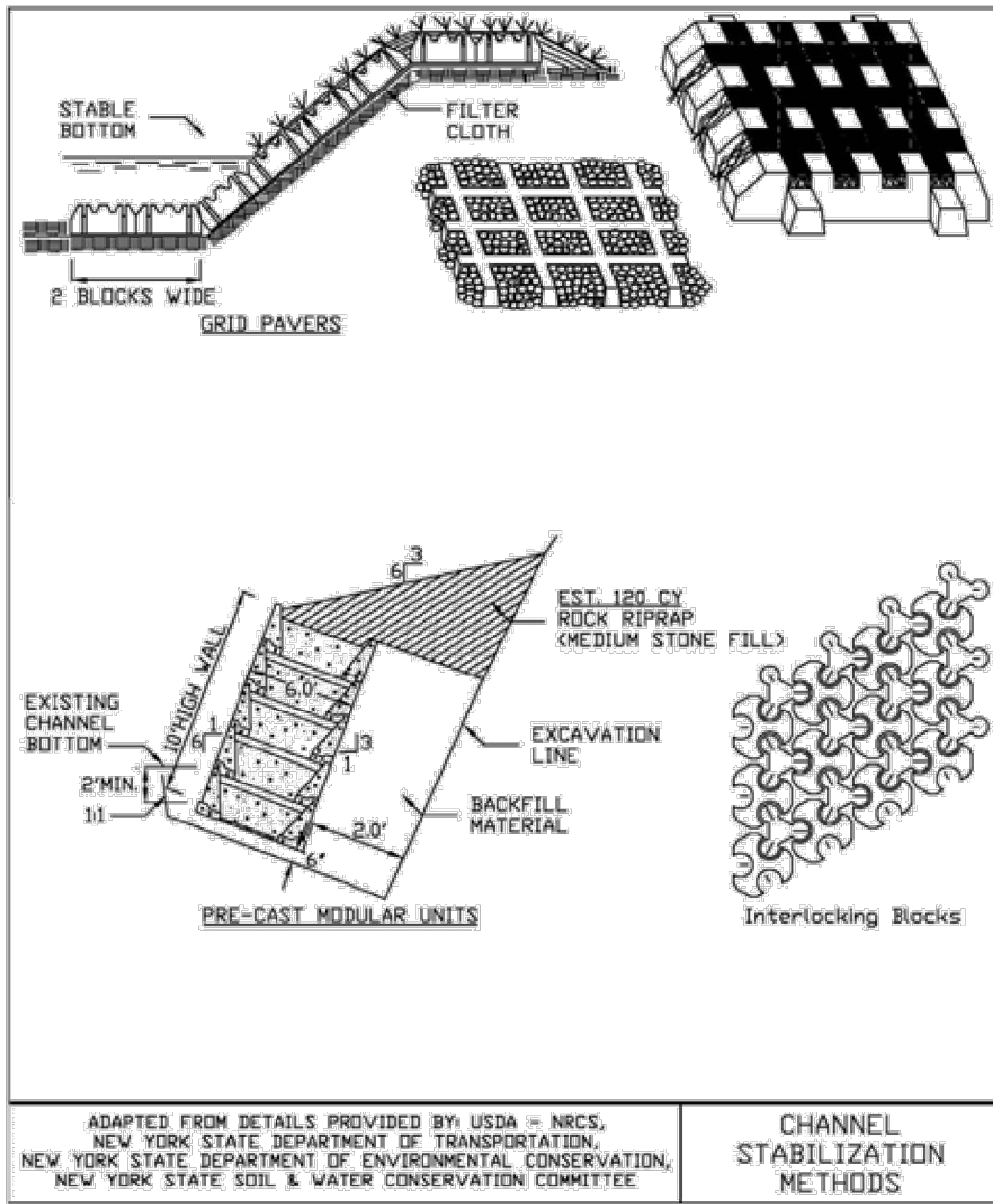


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Figure 4.4
Channel Stabilization Methods

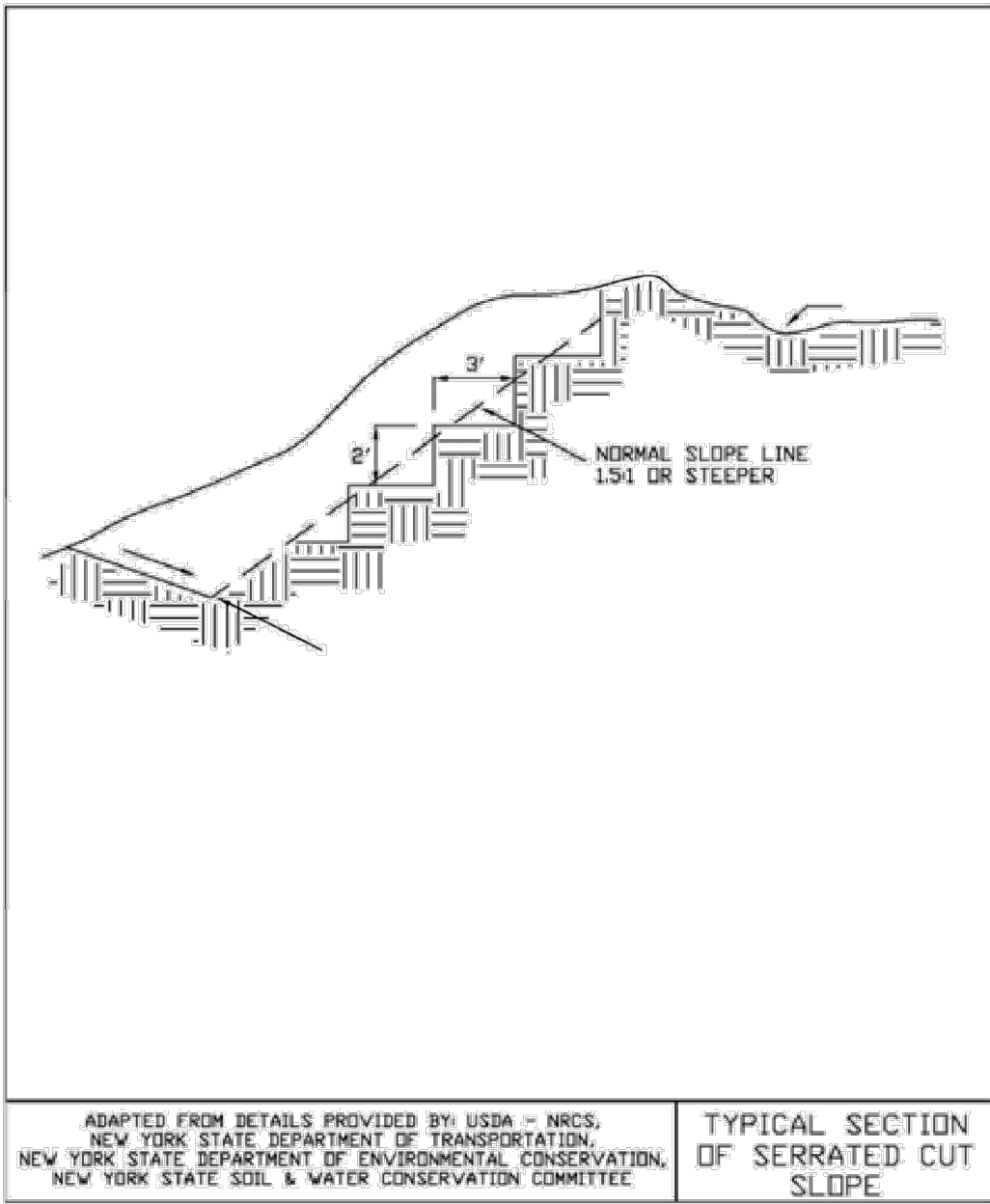


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Figure 4.9
Typical Section of Serrated Cut Slope

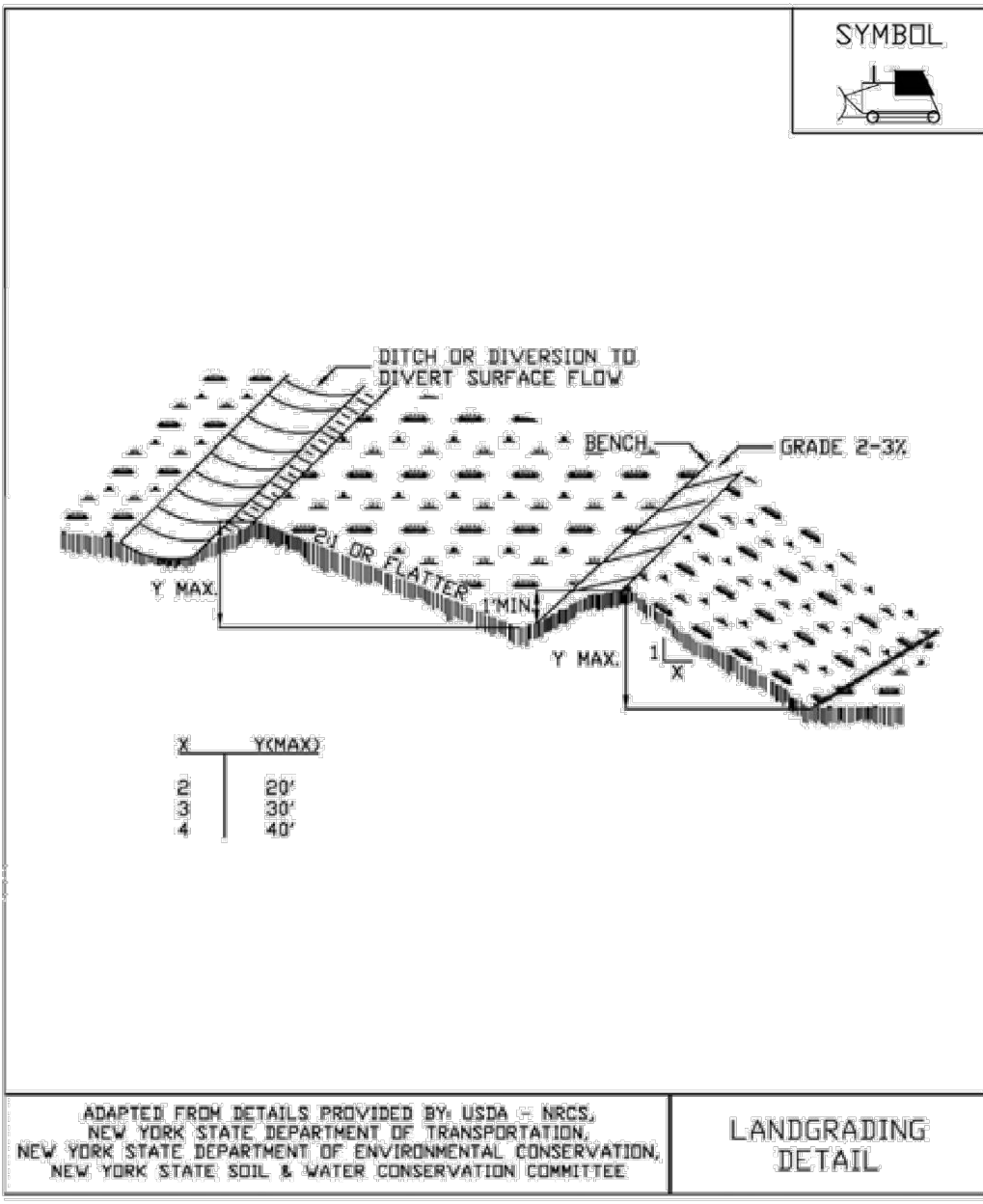


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Figure 4.10
Landgrading

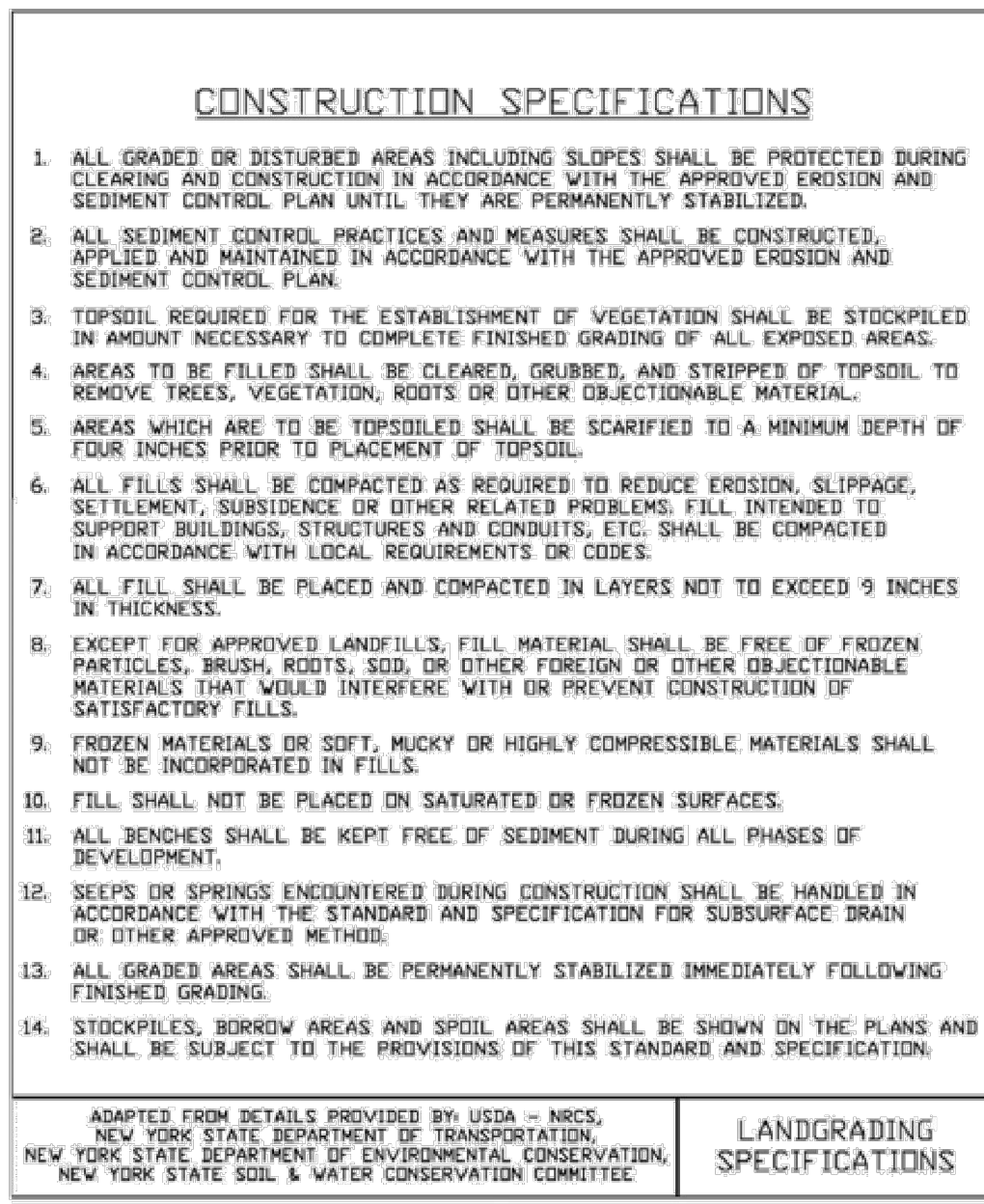


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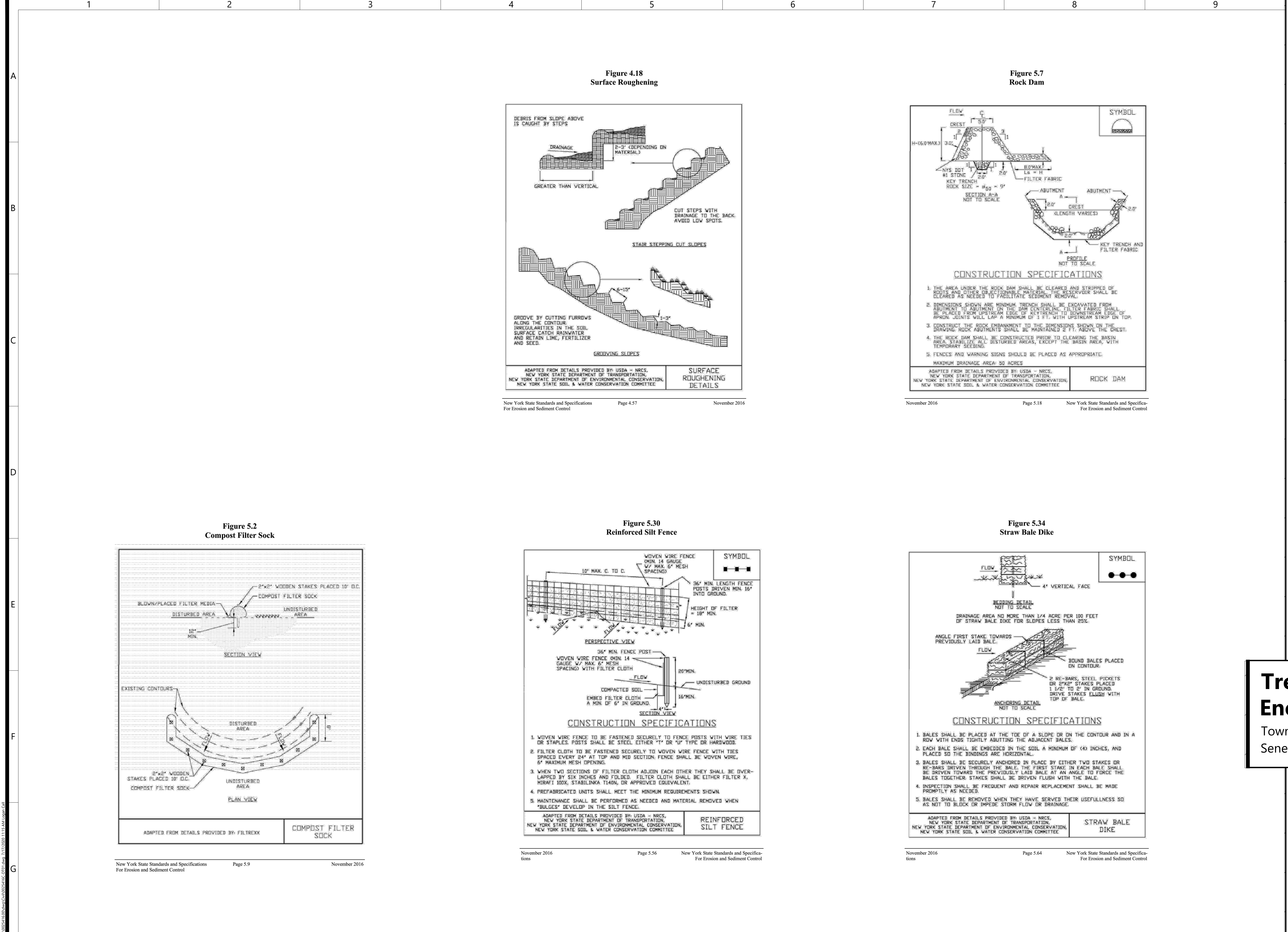
Figure 4.11
Landgrading - Construction Specifications



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New York State Standards and Specifications
For Erosion and Sediment Control



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REVISIONS:

#	DATE	COMMENT
A	04/17/2020	ISSUED FOR REVIEW
B	05/28/2020	ISSUED FOR REVIEW
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Trelina Solar
Energy Center

Town of Waterloo
Seneca County, NY

New York Erosion
Control Details - 4

PRELIMINARY
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PURPOSES

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ROAD DESIGN PARAMETERS

1. 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.
2. ROAD MAINTENANCE CAN BE EXPECTED DURING CONSTRUCTION AND OVER THE LIFE OF THE PERMANENT FACILITY.
3. ROAD SECTION AND SPECIFICATION SHOWN ON THE PLANS WERE PREPARED BY WESTWOOD PROFESSIONAL SERVICES BASED ON GEOTECHNICAL RECOMMENDATIONS FROM TERRACON.

PRODUCTS

1. 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 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.
3. 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

1. 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 ON THE 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 GRADE.
- B. SMALL SURFACE IRREGULARITIES WILL NEED TO BE BLADED SMOOTH FOR BACK INSTALLATION. SITE GRADING SHOWN ON PLAN SHEETS IS FOR LARGE TOPOGRAPHIC FEATURES AND MAY NOT FULLY ENCOMPASS ALL UNDULATIONS OF THE GROUND SURFACE. 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.
- C. SUBSURFACE SOILS SHALL BE MOISTURE CONDITIONED AND COMPACTED TO THE SPECIFICATIONS 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 TOPSOIL REMOVED AND MANAGED AS IDENTIFIED ABOVE IN "TOPSOIL MANAGEMENT".
- E. CLEAN, ORGANIC FREE, ON-SITE SOILS OR APPROVED IMPORTED MATERIAL MAY BE USED AS SUBGRADE MATERIAL FOR GENERAL SITE GRADING.
3. SUBGRADE PREPARATION
- A. SUBSEQUENT TO THE SURFACE CLEARING, GRUBBING, TOPSOIL REMOVAL AND EMBANKMENT CONSTRUCTION, THE EXPOSED SUBGRADE SOILS SHALL BE SCARIFIED TO A MINIMUM DEPTH 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 CONSTRUCTION.
- 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 OVERLAI D 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 STABILIZED IN ACCORDANCE WITH THE PROJECT SWPPP SPECIFICATIONS.

EXECUTION (CONTINUED)

ELECTRICAL TRENCHES

1. TRENCH'S SHALL BE EXCAVATED TO THE DEPTH IDENTIFIED IN THE ELECTRICAL DRAWINGS/DETAILS.
2. 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 IDENTIFIED 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), PROOF ROLL	1 EVERY 1,320 LF OF ROAD ENTIRE LENGTH
AGGREGATE BASE	MOISTURE DENSITY TEST (NUCLEAR DENSITY), PROOF ROLL, SIEVE ANALYSIS	1 EVERY 1,320 LF OF ROAD ENTIRE LENGTH 1 PER 2000 CY
MISCELLANEOUS FILL	MOISTURE DENSITY TEST (NUCLEAR DENSITY)	1 PER 2 FOOT VERTICAL LIFTS AND/OR 500 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 MOISTURE CONTENT REQUIREMENTS			
MATERIAL TYPE AND LOCATION	MINIMUM COMPACTION REQUIREMENT (%)	RANGE OF MOISTURE CONTENTS FOR COMPACTION (% OVER OPTIMUM)	
		MINIMUM	MAXIMUM
AGGREGATE BASE	95	-3%	+3%
STRUCTURAL FILL	95	-3%	+3%
SUBGRADE (BENEATH EQUIPMENT PADS, NATIVE MATERIAL)	95	-3%	+3%
SUBGRADE (BENEATH EQUIPMENT PADS, IMPORTED NON-EXPANSIVE SOILS)	95	-3%	+3%
TRENCH BACKFILL (NON-STRUCTURAL AREAS)	90	-3%	+3%
TRENCH BACKFILL (STRUCTURAL AREAS)	95	-3%	+3%
NON-STRUCTURAL FILL	90	-3%	+3%

*PRELIMINARY: SUBJECT TO CHANGE WITH GEOTECH

*TABLE 4: IMPORTED STRUCTURAL FILL	
SIEVE SIZE	PERCENT PASSING
3"	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.
2. TESTING SHALL BE PERFORMED BY A DESIGNATED INDEPENDENT TESTING AGENCY.
3. 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.
3. 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.
4. SIEVE ANALYSIS SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM C136
5. PROCTORS SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D698
6. ATTERBERG LIMITS SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D4318
7. MOISTURE DENSITY (NUCLEAR DENSITY) TESTING SHALL BE DONE IN ACCORDANCE WITH ASTM D6938

REQUIREMENTS

1. 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.
3. 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 TEST FOR 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 SHALL BE ADDED UNTIL THE UNSTABLE SECTION IS ABLE TO PASS A PROOF ROLL FOR ALL ROAD CLASSIFICATIONS.
- C. PROVIDE 1 SIEVE ANALYSIS PER 2000 CY OF ROAD AGGREGATE BASE PLACED.
5. MISCELLANEOUS FILL:
- A. PROVIDE MOISTURE DENSITY COMPACTION TESTS ONCE PER 2 FOOT VERTICAL LIFTS AND/OR 500 C.Y. OF COMPACTED FILL MATERIAL.
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 TEST DEPTHS OF 18" AND AT GRADE.

TRAFFIC CONTROL:

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

GENERAL NOTES:

1. CONSTRUCTION PLANS ARE BASED OFF THE NAD 83 NEW YORK STATE PLANES, EAST ZONE, US FOOT COORDINATE SYSTEM.
2. PROPOSED SOLAR LAYOUT FOR THIS PROJECT PROVIDED BY NEXTERA ENERGY.
3. 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 OTHERWISE NOTED.
5. THE GROUND SURFACE CONTOURS (AT ONE-FOOT VERTICAL INTERVALS) AND ELEVATIONS ARE BASED ON A LIDAR DATA FROM NEXTERA ENERGY.
6. 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.
7. THE CONTRACTOR SHALL NOTIFY DIG-SAFE (811 ONE CALL) AT LEAST 48 HOURS BEFORE EXCAVATION ACTIVITIES COMMENCE.
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.
3. 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.
5. 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:

1. 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.
2. 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.
3. EXCEPT AS REQUIRED TO TRANSITION TO DEPTH, CABLE TRENCH SHALL FOLLOW GROUND CONTOUR AT APPROXIMATELY 4'-6" BELOW GRADE.
4. 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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