

Attachment C

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[illegible]

DATA SET INFORMATION		
BASE FILE	FILE NAME/NOTES	PROVIDER
CIVIL IMPROVEMENTS	0028522C-SITE	WESTWOOD
PV ARRAY	0028522E-EQUIP	WESTWOOD
ELECTRICAL LAYOUT	0028522E-EQUIP	WESTWOOD
BOUNDARY SURVEY	20-370-01X (PRE-PRELIMINARY SURVEY) JB20210423_v1	DUDEK
TOPOGRAPHY	GARNET_CONTOUR_1FT_20201215	DUDEK
AERIAL	GARNET_ORTHO_20200827_TILE	TRC
WETLANDS	GARNET_DELINEATEDRESOURCES_20210106	TRC
SUBSTATION	GARNET SOLAR 01182021	SARGENT AND LUNDY

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C.606	Construction Details
C.607	New York Erosion Control Details
C.608	New York Erosion Control Details
C.609	New York Erosion Control Details
C.610	New York Erosion Control Details
C.611	New York Erosion Control Details
E.650	Trench Details
E.651	Trench Details
E.652	Trench Details

SHEET: T.100

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GENERAL NOTES:

1.

A BUFFER ZONE OF 100 FT (RESTRICTED ACTIVITIES AREA) HAS BEEN ESTABLISHED WHERE FACILITY CONSTRUCTION TRAVERSES STREAMS, WETLANDS, AND OTHER BODIES OF WATER. RESTRICTED ACTIVITIES AREAS SHALL BE MARKED IN THE FIELD. RESTRICTIONS INCLUDE: NO DEPOSITION OF SLASH WITHIN OR ADJACENT TO A WATERBODY; NO ACCUMULATION OF CONSTRUCTION DEBRIS WITHIN THE AREA; HERBICIDE RESTRICTIONS WITHIN 100 FT OF A STATE-REGULATED 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 WASH WATER.

2.

STREAMS ARE DESIGNATED "NO EQUIPMENT ACCESS" AND THE USE OF MOTORIZED EQUIPMENT SHALL BE PROHIBITED IN THESE AREAS EXCEPT WHERE CROSSED BY PERMITTED ACCESS ROADS OR THROUGH USE OF TEMPORARY MATTING.

3.

WHERE ANY TEMPORARY OR PERMANENT ACCESS ROADS ARE TO BE CONSTRUCTED THROUGH WETLANDS, A LAYER OF GEOTEXTILE FABRIC SHALL BE PLACED ACROSS THE WETLAND AFTER REMOVAL OF VEGETATION AND BEFORE ANY BACKFILLING OCCURS. THE FINAL ROAD SURFACE SHALL BE COVERED WITH A MINIMUM 1-INCH DEPTH OF GRAVEL IN THE AREA OF THE WETLAND CROSSING. WHERE INSTALLATION OF ACCESS ROADS IS TO BE CONSTRUCTED THROUGH WETLAND: A) TEMPORARY ACCESS ROADS SHALL USE CONSTRUCTION MATTING OR SIMILAR; B) PERMANENT ACCESS ROADS SHALL USE A LAYER OF GEOTEXTILE FABRIC AND AT LEAST SIX INCHES OF GRAVEL OR CRUSHED STONE PLACED IN THE LOCATION OF THE WETLAND CROSSING AFTER VEGETATION AND TOPSOIL IS REMOVED. PERMANENT ACCESS ROADS MAY REQUIRE EQUALIZATION CULVERTS TO MAINTAIN HYDRAULIC CONNECTIVITY.

4.

CONSTRUCTION WORK HOURS SHALL BE LIMITED TO 7:00 A.M. TO 7:00 P.M. MONDAY THROUGH SATURDAY. CONSTRUCTION WORK HOUR LIMITS APPLY TO FACILITY CONSTRUCTION, ALL CONSTRUCTION- RELATED ACTIVITIES INCLUDING THE DELIVERY AND UNLOADING OF MATERIALS, AND MAINTENANCE AND REPAIRS OF CONSTRUCTION EQUIPMENT AT OUTDOOR LOCATIONS. SINCE THESE ACTIVITIES CAN RESULT IN EXTENSIVE NOISE, LARGE VEHICLES IDLING FOR EXTENDED PERIODS AT ROADSIDE LOCATIONS, AND RELATED DISTURBANCES ARE NOT ALLOWED. CREWS WILL BE ALLOWED TO ASSEMBLE IN PROJECT AREA LAYDOWN YARDS AND CONDUCT PRE AND/OR POST WORK DAY MEETINGS (I.E. MORNING PLAN OF THE DAY AND/OR SAFETY BRIEF, EVENING PROGRESS MEETING) OUTSIDE OF THE 7:00 A.M. TO 7:00 P.M. WINDOW AS THESE ACTIVITIES DO NOT CREATE A LEVEL OF NOISE THAT IS CONSIDERED DISTURBING.

5.

THE CERTIFICATE HOLDER SHALL SUBMIT A NOTICE OF INTENT TO COMMENCE CONSTRUCTION TO THE REGION 7 REGIONAL PERMIT ADMINISTRATOR, NYSDEC REGION 7 HEADQUARTERS, 615 ERIE BLVD, WEST SYRACUSE, NY 13204, THE NYSDEC CHIEF OF THE ENERGY PROJECT MANAGEMENT BUREAU, DIVISION OF ENVIRONMENTAL PERMITS, 625 BROADWAY, ALBANY, AND DPS AT LEAST 72 HOURS IN ADVANCE OF THE COMMENCEMENT OF CONSTRUCTION AND SHALL ALSO NOTIFY THEM IN WRITING WITHIN 10 BUSINESS DAYS OF THE COMPLETION OF WORK.

6.

DURING CONSTRUCTION, EROSION CONTROL DEVICES INCLUDING BUT NOT LIMITED TO STRAW BALES OR SILT FENCES SHALL BE INSTALLED TO PREVENT EROSION OF EXCAVATED MATERIAL OR DISTURBED SOIL ALONG WITH OTHER MEASURES AS DESCRIBED IN THE SWPPP. ALL EROSION CONTROL DEVICES, SHALL BE INSTALLED IN ACCORDANCE WITH CONSTRUCTION TECHNIQUES DESCRIBED IN 2016 NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (BLUE BOOK), INCLUDING PLACING THE STRAW BALES AND SILT FENCE IN A SHALLOW TRENCH, BACKFILLING THE TOE OF THE SILT FENCE AND SECURING THE STRAW BALES WITH STAKES. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED PRIOR TO ANY GRADING OR FILLING OPERATIONS, OR OTHER GROUND DISTURBANCE. THEY SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND THE AREA IS COMPLETELY RESTORED TO CASE 17-F-0599 38 PRE-EXISTING CONDITIONS. ALL DISTURBED SOILS WITHIN REGULATED FRESHWATER WETLANDS AND THE ASSOCIATED ADJACENT AREAS MUST BE SEEDED WITH A NATIVE SEED MIX.

7.

ALL EQUIPMENT AND MACHINERY SHALL BE STORED AND STAGED AT LEAST 100 FEET FROM ANY STREAM, WATERBODY OR WETLAND OVERNIGHT AT THE END OF EACH WORKDAY.

8.

FUEL OR OTHER CHEMICAL STORAGE TANKS SHALL BE CONTAINED AND LOCATED AT ALL TIMES IN AN AREA MORE THAN 300 FEET LANDWARD OF ANY REGULATED WETLAND, STREAM OR WATERBODY.

9.

VISIBLY TURBID DISCHARGES FROM BLASTING, LAND CLEARING, GRADING OR EXCAVATION AND CONSTRUCTION ACTIVITIES OR DREDGING OPERATIONS 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 AS IDENTIFIED IN THE SWPPP.

SURVEY NOTES:

1.

TOPOGRAPHIC INFORMATION PROVIDED BY DUDEK, DATED JANUARY 2021

2.

PROPERTY BOUNDARY INFORMATION PROVIDED BY DUDEK, DATED AUGUST 6, 2021.

3.

HORIZONTAL DATUM: NEW YORK STATE PLANE COORDINATE SYSTEM NAD83, EAST ZONE, U.S. FOOT. VERTICAL DATUM: NAVD88.

4.

WETLAND BOUNDARY INFORMATION PROVIDED BY TRC DATED JANUARY 2021.

5.

EXISTING TREELINE IS APPROXIMATE, BASED ON AERIAL PHOTOGRAPHY.

6.

SOILS INFORMATION FROM USDA-NRCS WEB SOIL SURVEY CAYUGA COUNTY, NY DATED SEPTEMBER 3, 2018.

7.

FLOOD ZONE CLASSIFICATION:
SITE LIES OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN (ZONE X); AS SHOWN ON THE FOLLOWING MAPS NUMBERED:
36011C0145E - DATED AUGUST 2, 2007
36011C0165E - DATED AUGUST 2, 2007

SWPPP NOTE:

1.

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 DISCHARGE POLLUTANT ELIMINATION SYSTEM GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITY (GP-0-20-0001), OR GP IN EFFECT AT COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

2.

LEGIBLE "PROTECTED AREA" SIGNS, EXCLUSIONARY FENCING, COLORED FLAGGING, AND/OR EROSION CONTROLS PURSUANT TO THE APPROVED SWPPP SHALL BE INSTALLED ALONG THE APPROVED WORK AREA TO PROTECT AND CLEARLY IDENTIFY THE BOUNDARIES OF NON-WORK AREAS ASSOCIATED WITH WETLANDS, WATERBODIES, AND WETLAND/WATERBODY SETBACKS (E.G., ADDITIONAL TEMPORARY WORK SPACE SETBACKS, REFUELING RESTRICTIONS, ETC.). THIS SHALL BE DONE PRIOR TO ANY DISTURBANCE OR VEHICULAR TRAFFIC THROUGH SUCH AREAS. SIGNS, FENCING, AND SILT FENCE MUST BE REMOVED FOLLOWING COMPLETION OF THE PROJECT AND AFTER ALL DISTURBED AREAS ARE APPROPRIATELY STABILIZED AND PLANTED AS DESCRIBED IN THE SWPPP AND IN CERTIFICATE CONDITIONS.

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 TREE CLEARING ON THE TREE CLEARING PLANS. GROUND DISTURBANCE IS NOT PERMITTED. STUMPS SHALL BE CUT TO A MAXIMUM HEIGHT OF SIX (6) INCHES 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.

EARTHWORK:

1.

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.

2.

ALL FILL MATERIAL SHALL CONSIST OF CLEAN SOIL, SAND AND/OR GRAVEL THAT IS FREE OF THE FOLLOWING SUBSTANCES: ASPHALT, SLAG, FLY ASH, BROKEN CONCRETE, DEMOLITION DEBRIS, GARBAGE, HOUSEHOLD REFUSE, TIRES, WOODY MATERIALS INCLUDING TREE OR LANDSCAPE DEBRIS, METAL OBJECTS, AND ALL INVASIVE SPECIES. THE INTRODUCTION OF MATERIALS TOXIC TO AQUATIC LIFE IS EXPRESSLY PROHIBITED.

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 (UNLESS A 5-ACRE WAIVER IS RECEIVED FROM THE NYSDEC) 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 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.

5.

PRELIMINARY PROJECT PHASING:

5.1.

IDENTIFICATION OF CLEARING AND GRADING LIMITS, SENSITIVE AREAS, AND WETLANDS PRIOR TO CONSTRUCTION

5.2.

INSTALLATION OF SEDIMENT AND EROSION CONTROLS AS IDENTIFIED BY PROJECT PLANS/APPROVALS, INCLUDING ANY NECESSARY SITE-SPECIFIC MODIFICATIONS AS IDENTIFIED PERFORMANCE OF EARTHWORK, TREE CLEARING, AND INITIAL STABILIZATION OF EXPOSED SOILS

5.3.

PHASING FOR CONSTRUCTION OF THE SOLAR ARRAY AND ASSOCIATED INFRASTRUCTURE

5.4.

CONSTRUCTION/INSTALLATION OF PERMANENT STORMWATER TREATMENT FACILITIES

5.5.

APPLICATION OF SEED AND TEMPORARY STABILIZATION IN PREPARATION FOR SOLAR ARRAY CONSTRUCTION ACTIVITIES

TEMPORARY SEEDING NOTES:

1.

TEMPORARY SEEDINGS MY BE NECESSARY TO PROTECT AN AREA, OR SECTION, WHERE FINAL GRADING IS COMPLETE, WHEN PREPARING FOR WINTER WORK SHUTDOWN, OR TO PROVIDE COVER WHEN PERMANENT SEEDINGS ARE LIKELY TO FAIL DUE TO MID-SUMMER HEAT AND DROUGHT. THE INTENT IS TO PROVIDE TEMPORARY PROTECTIVE COVER DURING TEMPORARY SHUTDOWN OF CONSTRUCTION AND/OR WHILE WAITING FOR OPTIMAL PLANTING TIME.

2.

WATER MANAGEMENT PRACTICES MUST BE INSTALLED AS APPROPRIATE FOR SITE CONDITIONS. THE AREA MUST BE ROUGH GRADED AND SLOPES PHYSICALLY STABLE. LARGE DEBRIS AND ROCKS ARE USUALLY REMOVED. SEEDBED MUST BE SEEDED WITHIN 24 HOURS OF DISTURBANCE OR SCARIFICATION OF THE SOIL SURFACE WILL BE NECESSARY PRIOR TO SEEDING.

3.

FERTILIZER OR LIME ARE NOT TYPICALLY USED FOR TEMPORARY SEEDINGS.

4.

IF: SPRING OR SUMMER OR EARLY FALL, THEN SEED THE AREA WITH RYEGRASS (ANNUAL OR PERENNIAL) AT 30 POUNDS PER ACRE (APPROXIMATELY 0.7 POUNDS/1000 SQUARE FEET OR USE 1 POUND/1000 SQUARE FEET).

5.

IF: LATE FALL OR EARLY WINTER, THEN SEED CERTIFIED 'AROOSTOOK' WINTER RYE (CEREAL RYE) AT 100 POUNDS PER ACRE (2.5 POUNDS/1000 SQUARE FEET).

6.

ANY SEEDING METHOD MAY BE USED THAT WILL PROVIDE UNIFORM APPLICATION OF SEED OF THE AREA AND RESULT IN RELATIVELY GOOD SOIL TO SEED CONTACT.

7.

MULCH THE AREA WITH STRAW AT 2 TONS/ACRE (APPROXIMATELY 90 POUNDS/1000 SQUARE FEET OR 2 BALES). QUALITY STRAW MULCH ALLOWABLE WILL BE DETERMINED BASED ON LONG TERM USE AND VISUAL CONCERNS. MULCH ANCHORING WILL BE REQUIRED WHERE WIND OR AREAS OF CONCENTRATED WATER ARE OF CONCERN. WOOD FIBER HYDROMULCH OR OTHER SPRAYABLE PRODUCTS APPROVED FOR EROSION CONTROL (NYLON WEB OR MESH) MAY BE USED IF APPLIED ACCORDING TO MANUFACTURES' SPECIFICATION. CAUTION IS ADVISED WHEN USING NYLON OR OTHER SYNTHETIC PRODUCTS. THEY MAY BE DIFFICULT TO REMOVE PRIOR TO FINAL SEEDING AND CAN BE A HAZARD TO YOUNG WILDLIFE SPECIES.

PERMANENT SEEDING NOTES:

1.

THIS PRACTICE APPLIES TO ALL DISTURBED AREAS VOID OF, OR HAVING INSUFFICIENT, COVER TO PREVENT EROSION AND SEDIMENT TRANSPORT. SEE ADDITIONAL STANDARDS FOR SPECIAL SITUATIONS SUCH AS SAND DUNES AND SAND AND GRAVEL PITS.

2.

ALL WATER CONTROL MEASURES WILL BE INSTALLED AS NEEDED PRIOR TO FINAL GRADING AND SEEDBED PREPARATION. ANY SEVERELY COMPACTED SECTIONS WILL REQUIRES CHISELING OR DISKING TO PROVIDE AN ADEQUATE ROOTING ZONE, TO A MINIMUM DEPTH OF 12 INCHES. THE SEEDBED MUST BE PREPARED TO ALLOW GOOD SOIL TO SEED CONTACT, WITH THE SOIL NOT TOO SOFT AND NOT TOO COMPACT. ADEQUATE SOIL MOISTURE MUST BE PRESENT TO ACCOMPLISH THIS. IF SURFACE IS POWDER DRY OR STICKY WET, POSTPONE OPERATIONS UNTIL MOISTURE CHANGES TO A FAVORABLE CONDITION. IF SEEDING IS ACCOMPLISHED WITHIN 24 HOURS OF FINAL GRADING, ADDITIONAL SCARIFICATION IS GENERALLY NOT NEEDED, ESPECIALLY ON DITCH OR STREAM BANKS. REMOVE ALL STONES AND OTHER DEBRIS FROM THE SURFACE THAT ARE GREATER THAN 4 INCHES, OR THAT WILL INTERFERE WITH FUTURE MOWING OR MAINTENANCE.

3.

SOIL AMENDMENTS SHOULD BE INCORPORATED INTO THE UPPER 2 INCHES OF SOIL WHEN FEASIBLE. THE SOIL SHOULD BE TESTED TO DETERMINE THE AMOUNTS OF AMENDMENTS NEEDED. APPLY GROUND AGRICULTURAL LIMESTONE TO ATTAIN A pH OF 6.0 IN THE UPPER 2 INCHES OF SOIL. IF SOIL MUST BE FERTILIZED BEFORE RESULTS OF A SOIL TEST CAN BE OBTAINED TO DETERMINE FERTILIZER NEEDS, APPLY COMMERCIAL FERTILIZER AT 600 POUNDS PER ACRE OF 5-5-10 OR EQUIVALENT. IF MANURE IS USED, APPLY A QUANTITY TO MEET THE NUTRIENTS OF THE ABOVE FERTILIZER. THIS REQUIRES AN APPROPRIATE MANURE ANALYSIS PRIOR TO APPLYING TO THE SITE. DO NOT USE MANURE ON SITES TO BE PLANTED WITH BIRDSFOOT TREFOIL OR IN THE PATH OF CONCENTRATED WATER FLOW.

4.

SEED MIXTURES MAY VARY DEPENDING ON LOCATION WITHIN THE STATE AND TIME OF SEEDING. GENERALLY, WARM SEASON GRASSES SHOULD ONLY BE SEEDED DURING EARLY SPRING, APRIL TO MAY. THESE GRASSES ARE PRIMARILY USED FOR VEGETATING EXCESSIVELY DRAINED SANDS AND GRAVELS. OTHER GRASSES MAY BE SEEDED ANY TIME OF THE YEAR WHEN THE SOIL IS NOT FROZEN AND IS WORKABLE. WHEN LEGUMES SUCH AS BIRDSFOOT TREFOIL AND INCLUDED, SPRING SEEDING IS PREFERRED.

General Seed Mix:

	Variety	lbs./acre	lbs./100 sq. ft.
Red Clover ¹ <u>OR</u>	Acclaim, Rally Red Head II, Renegade	8 ²	0.20
Common white clover ¹	Common	8	0.20
<u>PLUS</u>			
Creeping Red Fescue	Common	20	0.45
<u>PLUS</u>			
Smooth Bromegrass <u>OR</u>	Common	2	0.05
Ryegrass (perennial)	Pennfine/Linn	5	0.10
¹ add inoculant immediately prior to seeding ² Mix 4 lbs each of Empire and Pardee OR 4 lbs of Birdfoot and 4 lbs white clover per acre. All seeding rates are given for Pure Live Seed (PLS)			

5.

PURE LIVE SEED, OR (PLS) REFERS TO THE AMOUNT OF LIVE SEED IN A LOT OF BULK SEED. INFORMATION ON THE SEED BAG LABEL INCLUDES THE TYPE OF SEED, SUPPLIER, TEST DATE, SOURCE OF SEED, PURITY, AND GERMINATION. PURITY IS THE PERCENTAGE OF PURE SEED. GERMINATION IS THE PERCENTAGE OF PURE SEED THAT WILL PRODUCE NORMAL PLANTS WHEN PLANTED UNDER FAVORABLE CONDITIONS. TO COMPUTE PURE LIVE SEED MULTIPLY THE "GERMINATION PERCENT" TIMES THE "PURITY" AND DIVIDE THAT BY 100 TO GET PURE LIVE SEED. %PLS = (%GERMINATION X %PURITY)/100

6.

TIME OF SEEDING: THE OPTIMUM TIMING FOR THE GENERAL SEED MIXTURE IS EARLY SPRING. PERMANENT SEEDINGS MAY BE MADE ANY TIME OF THE YEAR IF PROPERLY MULCHED AND ADEQUATE MOISTURE IS PROVIDED. LATE JUNE THROUGH EARLY AUGUST IS NOT A GOOD TIME TO SEED, BUT MAY FACILITATE COVERING THE LAND WITHOUT ADDITIONAL DISTURBANCE IS CONSTRUCTION IS COMPLETED. PORTIONS OF THE SEEDING MAY FAIL DUE TO DROUGHT AND HEAT. THESE AREAS MAY NEED RESEEDING IN LATE SUMMER/FALL OR THE FOLLOWING SPRING.

7.

METHOD OF SEEDING: BROADCASTING, DRILLING, CULTIPACK TYPE SEEDING, OR HYDROSEEDING ARE ACCEPTABLE METHODS. PROPER SOIL TO SEED CONTACT IS KEY TO SUCCESSFUL SEEDINGS.

8.

MULCHING: MULCHING IS ESSENTIAL TO OBTAIN A UNIFORM STAND OF SEEDED PLANTS. OPTIMUM BENEFITS OF MULCHING NEW SEEDINGS ARE OBTAINED WITH THE USE OF SMALL GRAIN STRAW APPLIED AT A RATE OF 2 TONS POER ACRE, AND ANCHORED WITH A NETTING OR TACKIFIER.

9.

IRRIGATION: WATERING MAY BE ESSENTIAL TO ESTABLISH A NEW SEEDING WHEN A DROUGHT CONDITION OCCURS SHORTLY AFTER A NEW SEEDING EMERGES. IRRIGATION IS A SPECIALIZED PRACTICE AND CARE MUST BE TAKEN NOT TO EXCEED THE APPLICATION RATE FOR THE SOIL OR SUBSOIL. WHEN DISCONNECTING IRRIGATION PIPE, BE SURE PIPES ARE DRAINED IN A SAFE MANOR, NOT CREATING AN EROSION CONCERN.

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 NATIONAL GRID SAFETY REQUIREMENTS WHEN WORKING WITHIN THE NIAGARA MOHAWK POWER CORP RIGHT-OF-WAY NEAR THE PROPOSED SUBSTATION. FAILURE TO DO SO WILL RESULT IN TERMINATION.

SITE INFORMATION

GPS COORDINATES (LAT, LONG)

43.1328 , -76.6259

SITE ELEVATION (FT)

500

SITE ENTRANCE CULVERTS

NAME	INLET	OUTLET	CULVERT SIZE	CULVERT LENGTH	MATERIAL	SHEET
EC-01	TBD	TBD	1 - 12"	TBD	CMP	C.301
EC-02	TBD	TBD	1 - 12"	TBD	CMP	C.303
EC-03	TBD	TBD	1 - 12"	TBD	CMP	C.304
EC-04	TBD	TBD	1 - 12"	TBD	CMP	C.304
EC-05	TBD	TBD	1 - 15"	TBD	CMP	C.306
EC-06	TBD	TBD	1 - 12"	TBD	CMP	C.307
EC-07	TBD	TBD	1 - 12"	TBD	CMP	C.309
EC-08	TBD	TBD	1 - 18"	TBD	CMP	C.309
EC-10	TBD	TBD	1-30"	TBD	CMP	C.312
EC-11	TBD	TBD	1 - 12"	TBD	CMP	C.319
EC-13	TBD	TBD	1 - 12"	TBD	CMP	C.320
EC-14	TBD	TBD	1 - 21"	TBD	CMP	C.320
EC-15	TBD	TBD	1 - 12"	TBD	CMP	C.322
EC-16	TBD	TBD	1 - 12"	TBD	CMP	C.322
EC-17	TBD	TBD	1 - 12"	TBD	CMP	C.322
EC-18	TBD	TBD	1 - 12"	TBD	CMP	C.322
EC-19	TBD	TBD	1 - 12"	TBD	CMP	C.326
EC-20	TBD	TBD	1 - 12"	TBD	CMP	C.326
EC-21	TBD	TBD	1 - 12"	TBD	CMP	C.326
EC-22	TBD	TBD	1 - 12"	TBD	CMP	C.330
EC-23	TBD	TBD	1 - 12"	TBD	CMP	C.332
EC-24	TBD	TBD	1 - 12"	TBD	CMP	C.335
EC-26	TBD	TBD	1 - 18"	TBD	CMP	C.336
EC-27	TBD	TBD	1 - 12"	TBD	CMP	C.336
EC-28	TBD	TBD	1 - 12"	TBD	CMP	C.337

STREAM CROSSINGS

NAME	INLET	OUTLET	CULVERT SIZE	CULVERT LENGTH	MATERIAL	SHEET
DC-02*	TBD	TBD	2 - 18"	TBD	CMP	C.304
DC-04*	TBD	TBD	4 - 18"	TBD	CMP	C.313
DC-05*	TBD	TBD	2 - 18"	TBD	CMP	C.316
DC-06	TBD	TBD	1 - 12"	TBD	CMP	C.320
DC-07	TBD	TBD	1 - 12"	TBD	CMP	C.320
DC-08*	TBD	TBD	2 - 18"	TBD	CMP	C.328
*Indicates LWC required - Standard Duty						

HORIZONTAL DIRECTION DRILLING TABLE

LOCATION	LENGTH	CIVIL PLAN SHEET REFERENCE
CROSSING OF SPOOK WOODS ROAD	33 FEET	C.303
CROSSING OF MONTANA ROAD	33 FEET	C.306
CROSSING OF SLAYTON ROAD	2 X 58 FEET	C.309
CROSSING COUNTY ROAD 38	2 X 88 FEET	C.320
CROSSING OF COOPER STREET	6 X 38 FEET	C.322
CROSSING S-NSD-7	3 X 130 FEET	C.322
CROSSING OF UTILITY EASEMENT	360 FEET	C.326
CROSSING OF COOPER STREET	2 X 44 FEET	C.326
CROSSING OF COOPER STREET	45 FEET	C.330
CROSSING OF W-JJB-3	726 FEET	C.330-C.331
CROSSING SLAYTON ROAD	32 FEET	C.336
CROSSING OF EGYPT ROAD	70 FEET	C.338
CROSSING OF SLAYTON ROAD	20 FEET	C.339
CROSSING OF SLAYTON ROAD	61 FEET	C.339
CROSSING OF SLAYTON ROAD	38 FEET	C.339
CROSSING OF MONTANA ROAD	24 FEET	C.340
CROSSING OF SPOOK WOODS ROAD	26 FEET	C.343

PROJECT DETAILS

PROPERTY AREA (ACRES)	2,288
FENCED AREA (ACRES)	902
FENCING LENGTH (LF)	151,566
GATE COUNT (EA)	31
SILT FENCE LENGTH (LF)	165,338
TEMPORARY SILT FENCE LENGTH (LF)	35,672
ACCESS ROAD LENGTH (LF)	52,953
ACCESS ROAD WIDTH (FT)	12
ACCESS ROAD ENTRANCE WIDTH (FT)	92
TEMPORARY ACCESS ROAD LENGTH (LF)	6,130
LIMITS OF DISTURBANCE (ACRES)	1,054
TYPE I TREE CLEARING (ACRES)	146.13
TYPE II TREE CLEARING (ACRES)	13.51
INFILTRATION BASIN (CF)	161.30
LAYDOWN AREA (ACRES)	7.06

ARMORED CROSSINGS

CROSSING	REQUIRED CROSSING	LENGTH (FT)
LWC-01	STANDARD DUTY	150
LWC-02	HEAVY DUTY	200
LWC-03	STANDARD DUTY	100
LWC-04	STANDARD DUTY	100
LWC-05	STANDARD DUTY	50
LWC-07	STANDARD DUTY	50
LWC-08	STANDARD DUTY	50
DC-02	STANDARD DUTY	50
DC-04	STANDARD DUTY	50
DC-05	STANDARD DUTY	200
DC-08	STANDARD DUTY	150

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PREPARED FOR:

NEXtera

ENERGY

700 Universe Boulevard
Juno Beach, FL 33408

REVISIONS:

#	DATE	COMMENT
A	01/06/2022	ISSUED FOR PERMIT

Garnet Energy

Center

Cayuga County, New York

DATE: 01/06/2022

SHEET: T.101

	1	2	3	4	5	6	7	8	9
A	SOILS PROPERTY TABLE								
	Map Unit Symbol	Map Unit Name	Min Soil Group	Acres					
	Ac	Alden mucky silt loam	8	40.1					
	Ad	Alden mucky silt loam, till substratum	8	10.7					
	Al	Alluvial land	9	3.1					
B	AnB	Alton gravelly sandy loam, 3 to 8 percent slopes	3	24.5					
	AnC	Alton gravelly sandy loam, 8 to 15 percent slopes	5	17.5					
	AsB	Appleton and Lyons soils, 0 to 3 percent slopes	6	41.3					
	CeB	Cazenovia silt loam, 2 to 8 percent slopes	3	12.9					
	CeC	Cazenovia silt loam, 8 to 14 percent slopes	5	5.2					
C	CeC3	Cazenovia silt loam, 5 to 14 percent slopes, eroded	6	6.5					
	CIA	Collamer silt loam, 0 to 2 percent slopes	2	12.8					
	CIB	Collamer silt loam, 2 to 6 percent slopes	3	1.3					
	CmC	Colonie loamy fine sand, 6 to 12 percent slopes	6	3.1					
	CnB	Colonie fine sandy loam, 1 to 6 percent slopes	4	7					
D	Fo	Fonda mucky silt loam	7	2.5					
	GaB	Galen fine sandy loam, 2 to 6 percent slopes	3	37.4					
	HIA	Hilton loam, 0 to 3 percent slopes	2	16.1					
	HIB	Hilton loam, 3 to 8 percent slopes	2	154.6					
	Lf	Lamson mucky fine sandy loam	7	92.9					
E	Mb	Madalin silt loam, sandy subsoil variant	7	18.1					
	Mf	Minoa fine sandy loam	5	11.5					
	Mr	Muck, deep	6	344.5					
	Ms	Muck, shallow	6	122.7					
	Na	Niagara fine sandy loam	4	41.9					
F	Nc	Niagara and Canandaigua silt loams	6	12					
	OfB	Ontario fine sandy loam, 3 to 8 percent slopes	2	114					
	OfC	Ontario fine sandy loam, 8 to 15 percent slopes	5	102.4					
	OnB	Ontario loam, 3 to 8 percent slopes	2	266.3					
	OnC	Ontario loam, 8 to 15 percent slopes	5	257.6					
G	OnD	Ontario loam, 14 to 20 percent slopes	6	174.2					
	OtE	Ontario, Honeoye, and Lansing soils, 20 to 35 percent slopes	8	130.2					
	OvB	Ovid silt loam, 2 to 6 percent slopes	5	1.1					
	PaB	Palmyra gravelly sandy loam, 3 to 8 percent slopes	2	7.8					
	PaC	Palmyra gravelly sandy loam, 8 to 15 percent slopes	5	11.8					
	PgB	Palmyra gravelly loam, 3 to 8 percent slopes	2	50.1					
	PgC	Palmyra gravelly loam, 8 to 15 percent slopes	5	81.5					
	PmD	Palmyra soils, 15 to 25 percent slopes	6	7.7					
	PnE	Palmyra, Howard, and Alton soils, 25 to 40 percent slopes	9	12.8					
	Pv	Phelps gravelly silt loam	2	6					
	RgB	Riga and Lairdsville silt loams, 2 to 6 percent slopes	4	13.3					
	RIC3	Riga and Lairdsville silty clay loams, 6 to 12 percent slopes, eroded	6	5.4					
	St	Stafford fine sandy loam	5	5.2					
	W	Water	0	1					

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Cayuga County, New York

General Notes

PRELIMINARY
NOT FOR CONSTRUCTION

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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.

1. GENERAL
 - a. THIS SECTION DESCRIBES WORK RELATED TO EARTHWORK AND MAY INCLUDE CLEARING AND GRUBBING, EXCAVATIONS, SUBGRADE, STRUCTURAL FILL AND EMBANKMENTS, AGGREGATE PLACEMENT, GENERAL FILL, STABILIZATION, ANY ASSOCIATED INSPECTIONS AND TESTING OF EARTHWORK, AND ALL OTHER WORK NECESSARY TO COMPLETE EARTHWORK FOR THE PROJECT.
2. SUBMITTALS
 - a. THE FOLLOWING MATERIAL SUBMITTALS ARE REQUIRED FOR REVIEW BY THE ENGINEER OF RECORD (EOR) PER SPECIFIC PRODUCT AND PRE-PLACEMENT:
 - a.1. ON-SITE BORROW SOURCE
 - a.2. IMPORTED FILL MATERIAL
 - a.3. AGGREGATE
 - a.4. RIPRAP
 - a.5. GEOSYNTHETIC FABRIC
 - a.6. CULVERTS
 - a.7. HIGH WATER CROSSINGS
 - b. EROSION AND SEDIMENT CONTROL (BMP) PRODUCT SUBMITTALS ARE NOT REQUIRED. REFER TO THE PROJECT SWPPP FOR INFORMATION.
 - c. REFER TO TABLE 1 FOR REQUIRED TESTS FOR EACH SUBMITTAL.

- c.1. STRUCTURAL FILL MATERIAL SHALL CONSIST OF IMPORTED SAND OR SAND AND GRAVEL WITH A LIQUID LIMIT LESS THAN 45 AND A PLASTICITY INDEX LESS THAN 20.
- a.2. STRUCTURAL FILL SHALL BE USED FOR EMBANKMENTS, TEMPORARY ROADS, ACCESS ROADS, SPUR ROADS, SUBSTATION, AND O&M YARD.
- b. AGGREGATE MATERIAL
 - b.1. AGGREGATE MATERIAL SHALL CONSIST OF NEW YORK STATE DOT AGGREGATE BASE. SEE TABLE 2 FOR GRADATION.
 - b.2. AGGREGATE MATERIAL SHALL BE USED FOR ACCESS ROADS, SPUR ROADS, SUBSTATION, O&M YARD, TEMPORARY ROADS, LAYDOWN YARD, AND STAGING AREAS.
- c. GENERAL FILL
 - c.1. GENERAL FILL MATERIAL SHALL BE ANY ON-SITE MATERIAL FREE OF FROST, VEGETATION, AND OTHER DELETERIOUS MATERIAL.
 - c.2. GENERAL FILL SHALL BE USED FOR NON-STRUCTURAL FILL LANDSCAPING AREAS.
- d. GEOSYNTHETIC
 - d.1. ROAD APPLICATIONS
 - d.1.1. GEOSYNTHETIC SHALL CONSIST OF MIRAFI HP 270 GEOTEXTILE FABRIC OR ENGINEER APPROVED EQUAL.
 - d.1.2. GEOSYNTHETIC SHALL BE USED FOR ACCESS ROADS AND SUBSTATION AREA AS SHOWN ON THE DRAWINGS.
 - d.2. DRAINAGE APPLICATIONS
 - d.2.1. GEOSYNTHETIC SHALL CONSIST OF MIRAFI 140N GEOTEXTILE FABRIC OR ENGINEER APPROVED EQUAL.
 - d.2.2. GEOSYNTHETIC SHALL BE USED FOR RIPRAP AREAS AND AS SHOWN ON THE DRAWINGS.
- e. RIPRAP
 - e.1. RIPRAP SHALL CONSIST OF ROCK THAT MEETS D50 REQUIREMENTS SPECIFIED IN THE PLANS. D50 SHALL BE MEASURED BY TAKING A REPRESENTATIVE SAMPLE OF THE RIP RAP MATERIAL AND MEASURING 100 STONES IN THE 3 GENERAL DIMENSIONS OF LENGTH, WIDTH, AND THICKNESS. THE AVERAGE INTERMEDIATE DIMENSION SHALL BE EQUAL TO THE D50 VALUE OR GREATER. INTERMEDIATE DIMENSION IS DEFINED AS THE LONGEST, STRAIGHT-LINE DISTANCE ACROSS THE ROCK THAT IS PERPENDICULAR TO THE LONGEST AXIS ON THE FACE OF THE ROCK WITH THE LARGEST PROJECTION PLANE. FOR THE IDEALIZED ROCK PARTICLE SHOWN IN FIGURE 1, THIS WOULD BE DIMENSION 'B'. REFERENCE FLH DESIGNATION T 521-13 "DETERMINING RIPRAP GRADATION BY WOLMAN COUNT" FOR FURTHER INFORMATION.



- f.1. REFER TO CULVERT SCHEDULE ON SHEET T.101 FOR CULVERT SIZE AND MATERIAL REQUIREMENTS.

- a. CLEARING AND GRUBBING
 - a.1. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL TREES, STUMPS, BRUSH, AND DEBRIS WITHIN THE TREE CLEARING 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.
- b. EXCAVATIONS
 - b.1. TOPSOIL SHALL BE STRIPPED FROM ALL ROADWAY AREAS AT A DEPTH DETERMINED BY THE ENVIRONMENTAL MONITOR PER AGM GUIDELINES. TOPSOIL SHALL NOT BE STRIPPED OUTSIDE OF THE DESIGNATED DISTURBANCE AREAS.
 - b.2. ANY TOPSOIL THAT HAS BEEN STRIPPED SHALL BE RE-SPREAD WITHIN GRADING AREAS. ALL TOPSOIL SHALL BE REDISTRIBUTED TO THE LAND OWNER'S PROPERTY OF WHERE IT ORIGINATED FROM. SEEDING AND MULCHING TO BE UNDER THE DIRECTION OF THE ENVIRONMENTAL MONITOR IN CONSULTATION WITH THE PROPERTY OWNER.
- c. SUBGRADE
 - c.1. SUBGRADE SOIL BELOW FILL SHALL BE COMPACTED AND PROOF-ROLLED IN ACCORDANCE WITH TABLE 1.
 - c.2. WHERE APPLICABLE, GEOTEXTILE FABRIC SHALL BE PLACED AFTER SUBGRADE TESTING REQUIREMENTS AS SPECIFIED IN TABLE 1. GEOTEXTILE FABRIC SHALL BE INSTALLED PER MANUFACTURE RECOMMENDATION.
- d. STRUCTURAL FILL AND EMBANKMENTS
 - d.1. FILL MAY BE PLACED ABOVE GRADE AFTER TOPSOIL STRIPPING, IN LOOSE LIFTS NOT EXCEEDING 1 FOOT, AND COMPACTED IN ACCORDANCE WITH TABLE 1.
 - d.2. SIDE SLOPES GREATER THAN 3:1 WILL NOT BE PERMITTED, UNLESS OTHERWISE NOTED ON THE PLAN.
- e. AGGREGATE PLACEMENT
 - e.1. SUBSEQUENT TO THE SUBGRADE PREPARATION, THE AGGREGATE BASE SHALL BE PLACED, COMPACTED, AND TESTED TO THE SPECIFICATIONS IDENTIFIED IN TABLE 1.
- f. GENERAL FILL
 - f.1. CLEAN ON-SITE SOILS OR APPROVED IMPORTED MATERIAL MAY BE USED AS FILL MATERIAL FOR GENERAL SITE GRADING IN NON-STRUCTURAL FILL LANDSCAPING AREAS. THIS MATERIAL SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED 1 FOOT.
- g. SEEDING, MULCHING, AND STABILIZATION
 - g.1. PRIOR TO FINAL STABILIZATION, TOPSOIL SHALL BE DISTRIBUTED OVER THE EXPOSED DISTURBED AREAS, EXCLUDING THE AGGREGATE DRIVING SURFACE.
 - g.2. FOLLOWING ROUGH GRADING OPERATIONS, TOPSOIL CAN BE USED TO BRING THE GROUND ELEVATIONS UP TO THE DESIGNED FINISHED GRADE ELEVATIONS IN NON-STRUCTURAL AREAS.
 - g.3. ALL DISTURBED AREAS SHALL HAVE TEMPORARY AND PERMANENT STABILIZATION MEASURES ESTABLISHED IN ACCORDANCE WITH THE PROJECT SWPPP.

	Location	Required Test	ASTM Standard	Frequency	Specified Criteria
Subgrade (Non-cement Stabilized)	Access Roads (if Agg. Rd. Section) Spur Roads Substation O&M Yard	Standard Proctor	ASTM D-698	1 per soil type as determined by independent testing agency	N/A
		Nuclear Density	ASTM D-6938	1 per 2,500 LF (minimum 1 per road)	95% of Standard Proctor Test Moisture Content +/- 2% of Optimum
		Proof Roll	N/A	Entire Length / Area	No rutting greater than 2" and no "pumping" of the soil beneath/behind the loaded truck. See testing requirements for additional information.
	Temporary Roads Laydown Yard	Proof Roll	N/A	Entire Length / Area	No rutting greater than 2" and no "pumping" of the soil beneath/behind the loaded truck. See testing requirements for additional information.

Structural Fill	Source (Imported Fill)	Grain Size Analysis	ASTM C-136	1 per soil type/source as determined by independent testing agency	N/A
		Standard Proctor	ASTM D-698		
		Moisture Content	ASTM D-2216		
		Atterberg Limits	ASTM D-4318		
	Embankments Access Roads Spur Roads Substation O&M Yard Laydown Yard	Nuclear Density	ASTM D-6938	1 test per 5,000 SF per 1' lift.	95% of Standard Proctor Test Moisture Content +/- 2% of Optimum
		Proof Roll	N/A	Entire Length / Area	No rutting greater than 2" and no "pumping" of the soil beneath/behind the loaded truck. See earthwork specifications for additional information.

Aggregate Material	Quarry Testing (Pre-Placement)	Grain Size Analysis	ASTM C-136	Per source from quarry. Sample from site every 5,000CY.	See Table 2
		Standard Proctor	ASTM D-698		N/A
		Moisture Content	ASTM D-2216		
		Atterberg Limits	ASTM D-4318		See Table 2
		Los Angeles Abrasion	ASTM C-131		See Table 2
	Access Roads Spur Roads Substation (Base Aggregate Only) O&M Yard Laydown Yard	Proof Roll	N/A	Entire Length / Area	No rutting greater than 2" and no "pumping" of the soil beneath/behind the loaded truck. See earthwork specifications for additional information.

General Fill	Non-structural fill landscaping areas	N/A	N/A	N/A	N/A
--------------	---------------------------------------	-----	-----	-----	-----

- 5. INSPECTIONS AND TESTING
 - a. TESTING SHALL BE PERFORMED BY A DESIGNATED INDEPENDENT TESTING AGENCY
 - b. TESTING AND INSPECTION RECORDS SHALL BE MAINTAINED BY THE CONTRACTOR AND MADE ACCESSIBLE TO THE CIVIL EOR AT THEIR REQUEST
 - b.1. THE ENGINEER MAY 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.
 - c. REFER TO TABLE 1 FOR PROJECT TESTING SPECIFICATIONS
 - d. PROOF ROLLING: PROOF ROLLING SHALL BE PERFORMED IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER OR QUALIFIED GEOTECHNICAL REPRESENTATIVE
 - d.1. UNSTABILIZED SUBGRADE AND AGGREGATE BASE SHALL BE PROOF ROLLED 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

SIEVE SIZE	PERCENT PASSING
2"	100
$\frac{1}{4}$ "	25-60
#40	5-40
#200	0-10

LIQUID LIMIT (MAX) = 25
PLASTICITY INDEX = 0-6
L.A ABRASION (% MAX) = 40%

SIEVE SIZE	PERCENT PASSING
3"	100
#200	10-100

***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.

1. SITE DRAINAGE INFRASTRUCTURE INCLUDING SWALES, ACCESS ROAD SWALE CROSSINGS, AND OUTLET FEATURES ARE SIZED FOR A 100-YEAR 24 HOUR RAIN EVENT, 5.07 INCHES OF RAINFALL PER NOAA ATLAS 14, VOLUME 10, VERSION 3.
2. THE ELEVATIONS AND CONTOURS SHOWN ON THESE CONSTRUCTION DRAWINGS WERE PREPARED FROM A COMBINATION OF ACTUAL FIELD SURVEYING AND AERIAL PHOTOGRAPHY DATA. THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER WHEN THEY FIND THAT GROUND ELEVATIONS DETERMINED DURING FIELD STAKING VARY FROM THE GROUND ELEVATIONS SHOWN ON THE DRAWINGS FOR POTENTIAL DESIGN MODIFICATIONS.
3. 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.
4. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE THROUGHOUT THE CONSTRUCTION OF THIS PROJECT. CONSTRUCTION ACTIVITIES SHALL NOT BLOCK THE NATURAL DRAINAGE SWALES CAUSING RAINWATER TO POND. IF CULVERTS ARE NEEDED, THE PROJECT ENGINEER MUST BE CONTACTED FOR APPROPRIATE SIZING OF STRUCTURE. WHEN INSTALLING DRAINAGE CROSSINGS, THE CONTRACTOR SHALL USE JUDGMENT IN SETTING THE FLOW LINE ELEVATIONS TO PROVIDE POSITIVE DRAINAGE. WHEN POSSIBLE, ALL CULVERTS SHOULD BE PLACED AT A MINIMUM 0.5% GRADE.
5. ANY FACILITIES REMOVED TO ALLOW FOR CONSTRUCTION (MAILBOXES, SIGNS, FENCES, ETC.) SHALL BE REPLACED BY THE CONTRACTOR IN A CONDITION AS GOOD AS PRE-EXISTING UNLESS INDICATED FOR REMOVAL.
6. THE CONTRACTOR SHALL NOTIFY NEW YORK 811 AT LEAST 48 HOURS BEFORE EXCAVATION ACTIVITIES COMMENCE.
7. ALL CONSTRUCTION PERFORMED SHALL CONFORM WITH THE CURRENT STANDARDS AND SPECIFICATION OF CAYUGA COUNTY. WHERE DISCREPANCIES EXIST BETWEEN THE PROJECT SPECIFICATIONS AND THE COUNTY SPECIFICATIONS OR STANDARD, THE CONTRACTOR SHALL ABIDE BY THE GREATER OR MORE RESTRICTIVE REQUIREMENTS.
8. ELECTRONIC FILES ARE AVAILABLE FOR CONSTRUCTION OPERATIONS.
9. 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 COUNTY/MUNICIPALITY AND ENGINEER PRIOR TO PLACEMENT. TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
10. TEMPORARY FEATURES SHALL, UPON COMPLETION OF ALL PROJECT CONSTRUCTION OR UPON NOTIFICATION OF THE ENGINEER, BE REMOVED AND THE AREA RESTORED TO APPROXIMATELY ORIGINAL LINES AND GRADES WITH TOPSOIL REPLACED, EXCEPT WHERE REQUESTED BY THE TOWNSHIP OR COUNTY TO PERMANENTLY REMAIN.
11. ELECTRICAL INFORMATION SHOWN ON THE PLANS IS FOR REFERENCE ONLY. REFER TO ELECTRICAL PLANS FOR SPECIFIC LOCATIONS AND CONSTRUCTION DETAILS.
12. A PRELIMINARY GEOTECHNICAL REPORT WITH RECOMMENDATIONS HAVE BEEN PROVIDED BY THE OWNER. THIS SHOULD ONLY BE USED AS REFERENCE.
13. WETLAND INFORMATION HAS BEEN PROVIDED BY THE OWNER. ALL WETLAND DELINEATIONS AND PERMITTING SHALL BE THE RESPONSIBILITY OF OTHERS. THE OWNER AND CONTRACTOR SHALL VERIFY THAT ALL WETLAND PERMITS HAVE BEEN SUBMITTED AND APPROVED PRIOR TO CONSTRUCTION COMMENCING.
14. CULTURAL RESOURCE INFORMATION HAS NOT BEEN PROVIDED BY THE OWNER. THE CONTRACTOR SHALL BE FAMILIAR WITH THE INFORMATION/REPORT AND REVIEW ALL RECOMMENDATIONS.
15. AN ENVIRONMENTAL ASSESSMENT HAS NOT BEEN PROVIDED. THE CONTRACTOR SHALL BE FAMILIAR WITH THE INFORMATION/REPORT AND REVIEW ALL RECOMMENDATIONS.
16. WILDLIFE REPORT(S) HAVE BEEN PROVIDED. THE CONTRACTOR SHALL BE FAMILIAR WITH THE INFORMATION/REPORT(S) AND REVIEW ALL RECOMMENDATIONS.
17. THIS PROJECT SHALL ADHERE TO AGRICULTURE AND MARKETS GUIDANCE (AGM).

1. THE CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES AS PLANNED AND SPECIFIED FOLLOWING BEST MANAGEMENT PRACTICES AS OUTLINED BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION AND BEING IN CONFORMANCE WITH THE STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES) 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.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE SWPPP AVAILABILITY.
 3. ALL TOP SOIL, BERMS, FIBER ROLLS, AND OTHER EROSION CONTROL FEATURES SHALL BE IN-PLACE PRIOR TO ANY EXCAVATION/CONSTRUCTION AND SHALL BE MAINTAINED UNTIL A VIABLE TURF OR GRASS COVER HAS BEEN ESTABLISHED.
4. ALL DRAINAGE SWALES DISTURBED DURING CONSTRUCTION ACTIVITIES AND NOT COVERED BY ROAD SURFACING MATERIALS, SHALL BE STABILIZED IN ACCORDANCE WITH THE SWPPP PLAN.

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- ## THREATENED AND ENDANGERED SPECIES

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1. 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 DEPICTED ON PROJECT PLANS. NO CONSTRUCTION ACTIVITY IS TO TAKE PLACE WITHIN AREAS TO BE LEFT IN A NATURAL CONDITION. STAKING 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, UNLESS MOVING THE EQUIPMENT WILL CAUSE ADDITIONAL ENVIRONMENTAL IMPACT. THIS WILL SERVE TO AVOID THE INADVERTENT LEAKAGE OF DELETERIOUS SUBSTANCES INTO THE REGULATED AREA.
4. FUEL OR OTHER CHEMICAL STORAGE TANKS SHALL BE CONTAINED AND LOCATED AT ALL TIMES IN AN AREA MORE THAN 300 FEET LANDWARD OF ANY REGULATED WETLAND OR WATER BODY. IF THE ABOVE REQUIREMENT CANNOT BE MET, THEN THE STORAGE AREAS MUST BE DESIGNED TO COMPLETELY CONTAIN ANY AND ALL POTENTIAL LEAKAGE. SUCH A CONTAINMENT SYSTEM MUST BE APPROVED BY DEC STAFF IN WRITING PRIOR TO EQUIPMENT, MACHINERY OR TANK STORAGE.
5. ALL MOBILE EQUIPMENT, EXCLUDING DEWATERING PUMPS, MUST BE FUELED IN A LOCATION AT LEAST 100 FEET FROM THE TOP OF STREAM BANK, WETLAND, OR OTHER WATER BODY. DEWATERING PUMPS OPERATED CLOSER THAN 100 FEET FROM THE STREAM BANK, WETLAND, OR WATER BODY, MUST BE ON AN IMPERVIOUS SURFACE WITH 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) AND THE TOWN OF CONQUEST 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, OR IN WETLANDS AND 100' ADJACENT AREAS, MUST BE INSPECTED DAILY FOR LEAKS OF PETROLEUM, OTHER FLUIDS, OR CONTAMINANTS AND MAY ONLY ENTER A STREAM CHANNEL IF FOUND TO BE FREE OF ANY LEAKAGE. A SPILL KIT MUST BE ON SITE AND ANY LEAKS MUST BE STOPPED AND CLEANED UP IMMEDIATELY. THE CONTRACTOR SHALL PROVIDE DETAILS FOR SPILL KITS, AND PRIMARY AND SECONDARY CONTAINMENT.
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 CONSTRUCTION MATS OR SIMILAR.
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 80% 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. NO BURYING OF CONSTRUCTION DEBRIS OR EXCESS CONSTRUCTION MATERIALS WILL BE ALLOWED.
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 SITE.
 - 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 FOLLOWING LIST OF INVASIVE SPECIES THAT THE DEC IDENTIFIES AS A POTENTIAL PROBLEM. IF THESE INVASIVE SPECIES ARE FOUND, THEY MUST BE REPORTED TO THE DEC REGIONAL FORESTER, AND COMPLY WITH SITE SPECIFIC PLANS FOR MANAGEMENT OF SPECIES AS DESCRIBED IN THE INVASIVE SPECIES CONTROL PLAN (ISCP).
 - BLACK LOCUST (ROBINIA PSEUDOACACIA)
 - CANADA THISTLE (CIRSILUM ARVENSE)
 - COMMON BUCKTHORN (RHAMNUS CATHARTICA)
 - CURLY PONDWEED (POTAMOGETON CRISPUS)
 - GARLIC MUSTARD (ALLIARIA PETIOLATA)
 - GLOSSY BUCKTHORN (FRANGULA ALNUS)
 - JAPANESE BARBERY (BERBERIS THUNBERGII)
 - LEAFY SPURGE (EUPHORBIA ESULA)
 - MORROW HONEYSUCKLE (LONICERA MORROWII)
 - MULTIFLORA ROSE (ROSA MULTIFLORA)
 - ORIENTAL BITTERSWEET (CELASTRUS ORBICULATUS)
 - PURPLE LOOSESTRIPE (LYTHRUM SALICARIA)
- 13.4. MAKE SURE CREWS ARE TRAINED TO IDENTIFY THE ASIAN LONGHORNED BEETLE AND THE EMERALD ASH BORER AND ANY OTHER INSECTS THAT THE NYSDEC IDENTIFIES AS A POTENTIAL PROBLEM IN ACCORDANCE WITH 6 NYCRR PART 575, PROHIBITED AND REGULATED INVASIVE SPECIES. IF THESE INSECTS ARE FOUND, THEY MUST BE REPORTED TO THE NYSDEC REGION 7 REGIONAL FORESTER
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.
 - 14.3. IF ANY SHRUBS GROWING WITHIN 50 FEET OF STREAMS NEED TO BE CUT IN THE PROCESS OF CONSTRUCTION OVERHEAD POWER LINE CROSSINGS, THEY SHALL BE CUT OFF TO GROUND LEVEL WITH ROOT SYSTEMS LEFT IN PLACE. EXCEPT FOR STUMPS AND ROOT SYSTEMS IN AN OVERHEAD POWER LINE RIGHT OF WAY, 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 ON THE GROUND.
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. 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

- ## CLEARING METHODS

- WOOD/SLASH DISPOSAL METHODS

- ## DANGER TREES

- ## PROCEDURE FOR OFF-SITE REMOVAL OF STUMPS, CHIPS, AND SLASH

- | | |
|---|--|
| SCOTLAND YARDS
198 NEW SCOTLAND SOUTH ROAD
SLINGERLANDS, NY 12159 | B&B FOREST PRODUCTS
251 ROUTE 145
CAIRO, NY 12413 |
| BAND SAWN LUMBER, LLC
1873 STATE ROUTE 29
JOHNSTOWN, NY 12095 | BAILLIE LUMBER CO.
189 WEST STREET
BOONVILLE, NY 13309 |
| WAGNER LUMBER
4060 GASKILL ROAD
OWEGO, NY 13827 | |

TREE CLEARING:

- EROSION CONTROL NOTES

- Westwood**
Surveying & Engineering

PREPARED FOR

[illegible]

Garnet Energy Center

Cayuga County, New York

Tree Clearing Notes

PRELIMINARY
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DATE: 01/06/2022

SHEET: T.104

WINTER STABILIZATION NOTES

DESIGN CRITERIA

1. PREPARE A SNOW MANAGEMENT PLAN WITH ADEQUATE STORAGE FOR SNOW AND CONTROL OF MELT WATER, REQUIRING CLEARED SNOW T BE STORED IN A MANNER NOT AFFECTING ONGOING CONSTRUCTION ACTIVITIES.
2. ENLARGE AND STABILIZE ACCESS POINTS TO PROVIDE FOR SNOW MANAGEMENT AND STOCKPILING. SNOW MANAGEMENT ACTIVITIES MUST NOT DESTROY OR DEGRADE INSTALLED EROSION AND SEDIMENT CONTROL PRACTICES.
3. A MINIMUM 25 FOOT BUFFER SHALL BE MAINTAINED FROM ALL PERIMETER CONTROLS SUCH AS SILT FENCE. MARK SILT FENCE WITH TALL STAKES THAT ARE VISIBLE ABOVE THE SNOW PACK.
4. EDGES OF DISTURBED AREAS THAT DRAIN TO A WATERBODY WITHIN 100 FEET WILL HAVE 2 ROWS OF SILT FENCE, 5 FEET APART, INSTALLED ON THE CONTOUR.
5. DRAINAGE STRUCTURES MUST BE KEPT OPEN AND FREE OF SNOW AND ICE DAMS. ALL DEBRIS, ICE DAMS, OR DEBRIS FROM PLOWING OPERATIONS, THAT RESTRICT THE FLOW OF RUNOFF AND MELTWATER, SHALL BE REMOVED.
6. SEDIMENT BARRIES MUST BE INSTALLED AT ALL APPROPRIATE PERIMETER AND SENSITIVE LOCATIONS. SILT FENCE AND OTHER PRACTICES REQUIRING EARTH DISTURBANCE MUST BE INSTALLED BEFORE THE GROUND FREEZES.
7. SOIL STOCKPILES MUST BE PROTECTED BY THE USE OF ESTABLISHED VEGETATION, ANCHORED STRAW MULCH, ROLLED STABILIZATION MATTING, OR OTHER DURABLE COVERING. A BARRIER MUST BE INSTALLED AT LEAST 15 FEET FROM THE TOE OF THE STOCKPILE TO PREVENT SOIL MIGRATION AND TO CAPTURE LOOSE SOIL.
8. IN AREAS WHERE SOIL DISTURBANCE ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED, THE APPLICATION OF SOIL STABILIZATION MEASURES SHOULD BE INITIATED BY THE END OF THE NEXT BUSINESS DAY AND COMPLETED WITHIN THREE (3) DAYS. ROLLED EROSION CONTROL BLANKETS MUST BE USED ON ALL SLOPES 3 HORIZONTAL TO 1 VERTICAL OR STEEPER.
9. IF STRAW MULCH ALONE IS USED FOR TEMPORARY STABILIZATION, IT SHALL BE APPLIED AT DOUBLE THE STANDARD RATE OF 2 TONS PER ACRE, MAKING THE APPLICATION RATE 4 TONS PER ACRE. OTHER MANUFACTURED MULCHES SHOULD BE APPLIED AT DOUBLE THE MANUFACTURER'S RECOMMENDED RATE.
10. TO ENSURE ADEQUATE STABILIZATION OF DISTURBED SOIL IN ADVANCE OF A MELT EVENT, AREAS OF DISTURBED SOIL SHOULD BE STABILIZED AT THE END OF EACH WORK DAY UNLESS:
 - 10.1. WORK WILL RESUME WITHIN 24 HOURS IN THE SAME AREA AND NO PRECIPITATION IS FORECAST OR;
 - 10.2. THE WORK IS IN DISTURBED AREAS THAT COLLECT AND RETAIN RUNOFF, SUCH AS OPEN UTILITY TRENCHES, FOUNDATION EXCAVATIONS, OR WATER MANAGEMENT AREAS.
11. USE STONE PATHS TO STABILIZE THE ACCESS PERIMETERS OF BUILDINGS UNDER CONSTRUCTION AND AREAS WHERE CONSTRUCTION VEHICLE TRAFFIC IS ANTICIPATED. STONE PATHS SHOULD BE A MINIMUM OF 10 FEET IN WIDTH BUT WIDER AS NECESSARY TO ACCOMMODATE EQUIPMENT.

MAINTENANCE

1. THE SITE SHOULD BE INSPECTED FREQUENTLY TO ENSURE THAT THE EROSION AND SEDIMENT CONTROL PLAN IS PERFORMING ITS WINTER STABILIZATION FUNCTION. IF THE SITE WILL NOT HAVE EARTH DISTURBING ACTIVITIES ONGOING DURING THE "WINTER SEASON", ALL BARE EXPOSED SOIL MUST BE STABILIZED BY ESTABLISHED VEGETATION, STRAW OR OTHER ACCEPTABLE MULCH, MATTING, ROCK, OR OTHER APPROVED MATERIAL SUCH AS ROLLED EROSION CONTROL PRODUCTS. SEEDING OF AREAS WITH MULCH COVER IS PREFERRED BUT SEEDING ALONE IS NOT ACCEPTABLE FOR PROPER STABILIZATION.
2. COMPLIANCE INSPECTIONS MUST BE PERFORMED AND REPORTS FILED PROPERLY IN ACCORDANCE WITH THE SWPPP FOR ALL SITES UNDER A WINTER SHUTDOWN.

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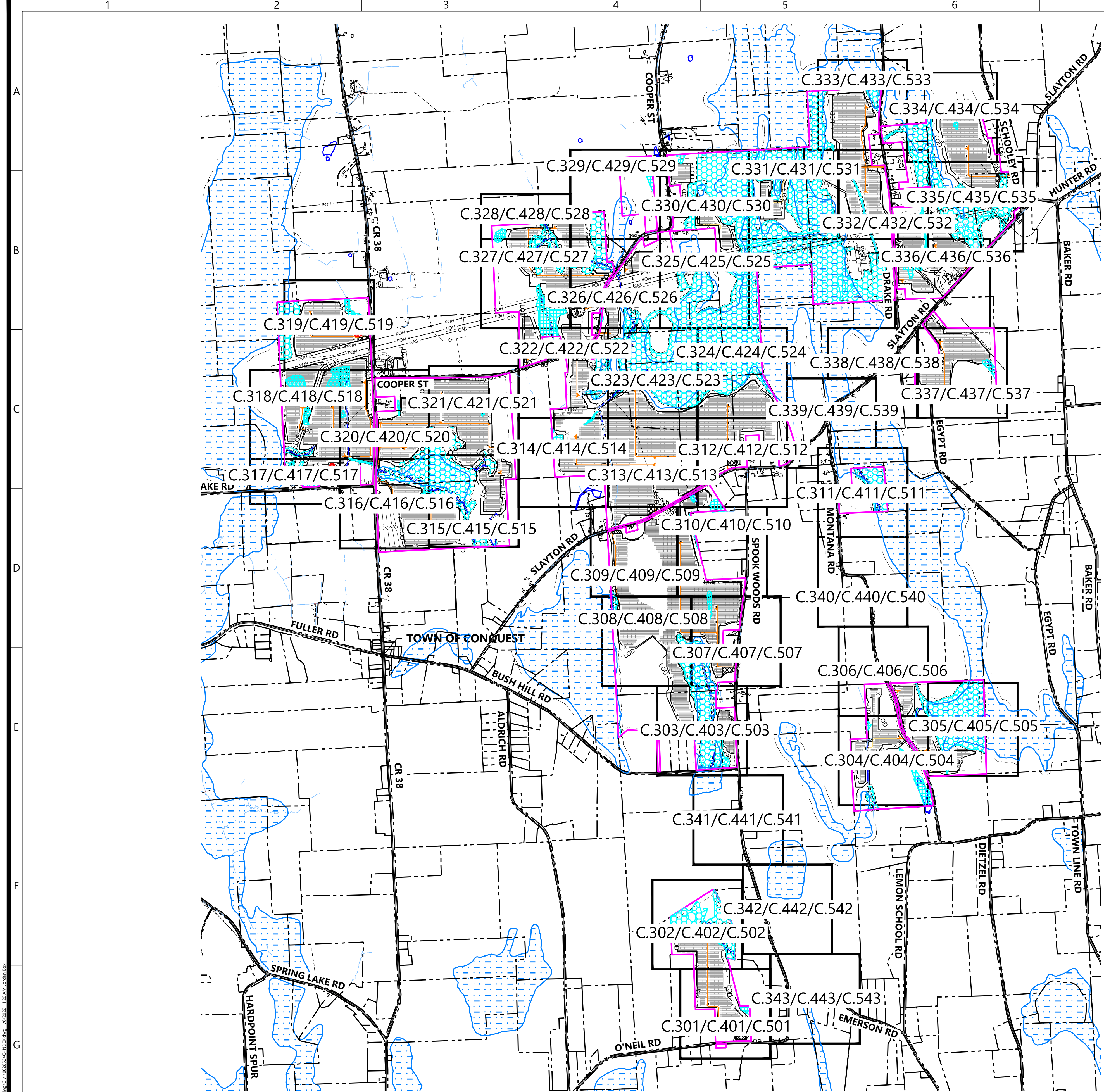
Cayuga County, New York

Tree Clearing Notes

PRELIMINARY
NOT FOR CONSTRUCTION

DATE: 01/06/2022

SHEET: T.105



- LEGEND:
- PROJECT BOUNDARY
 - PARCEL LINE
 - EX. PAVED ROAD
 - EX. GRAVEL ROAD
 - EX. OVERHEAD POWER LINE
 - EX. GAS LINE
 - EX. FENCE
 - EX. NYSDEC/USACE WETLAND
 - EX. USACE WETLAND
 - EX. NONJURISDICTIONAL WETLAND
 - EX. DEC MAPPED WETLAND
 - EX. STREAM
 - EX. EDGE OF WATER
 - 100' DEC WETLAND ADJACENT AREA
 - PROPOSED SOLAR ARRAY
 - PROPOSED ACCESS ROAD
 - PROPOSED TEMPORARY ACCESS ROAD
 - PROPOSED SECURITY FENCE
 - PROPOSED ELECTRICAL EQUIPMENT
 - PROPOSED SETBACKS
 - PROPOSED LAYDOWN YARD
 - L.O.D. LIMIT OF DISTURBANCE
 - C.XXX SHEET NUMBER

Westwood
Surveying & Engineering

Phone (952) 937-5150 12701 Whitewater Drive, Suite #300
Fax (952) 937-5822 Minnetonka, MN 55343
Toll Free (888) 937-5150 ww-pc.com
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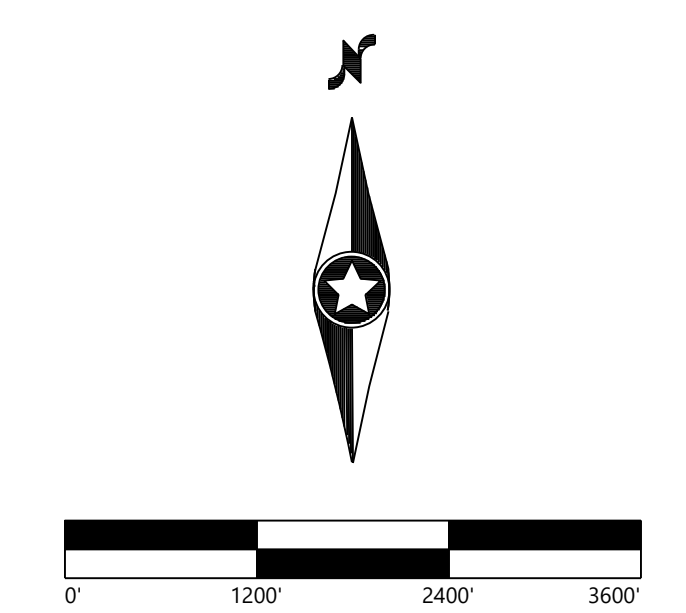
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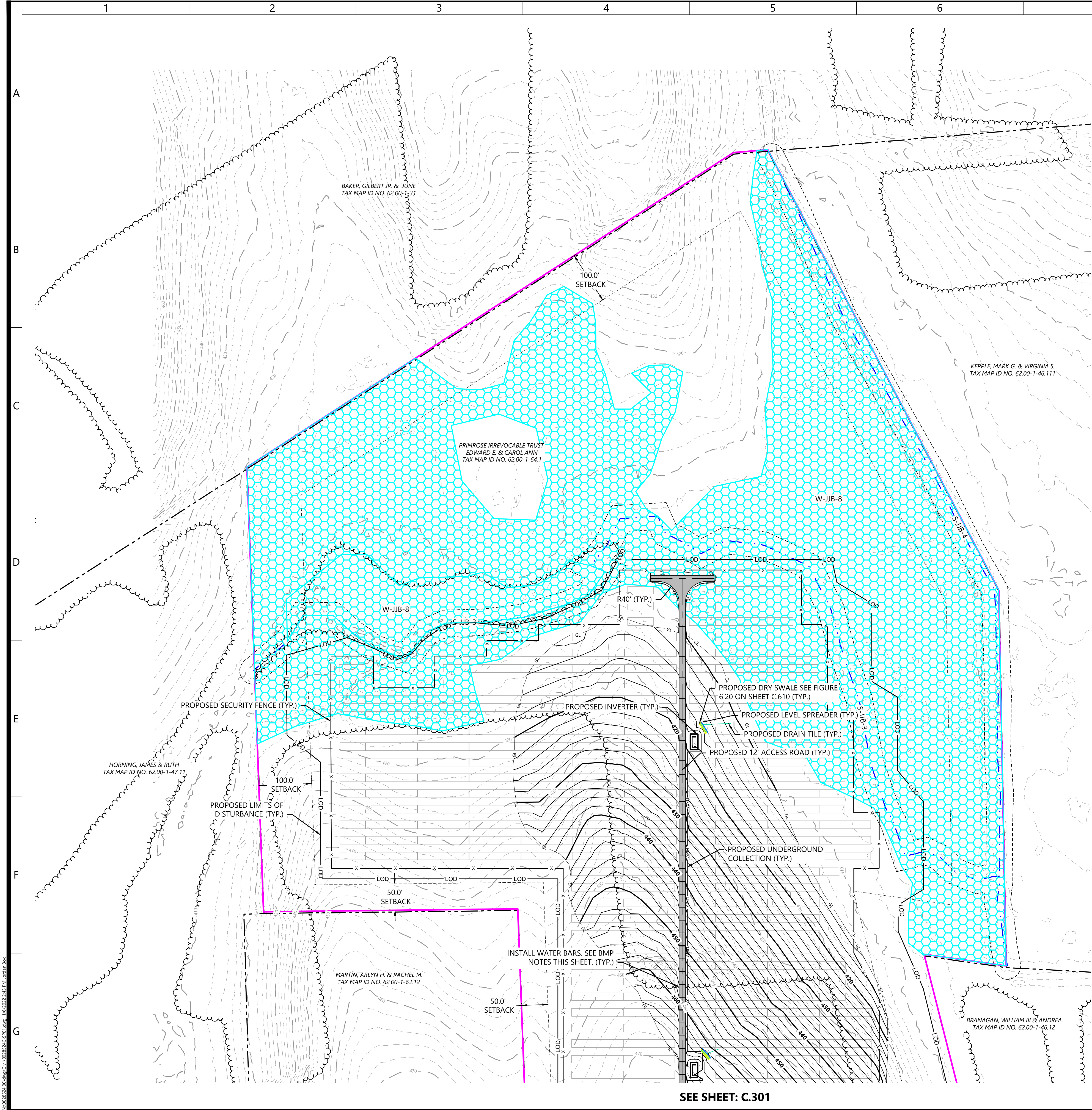
Cayuga County, New York

Civil Site Plan Index Sheet

PRELIMINARY
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DATE: 01/06/2022
SHEET: C.100

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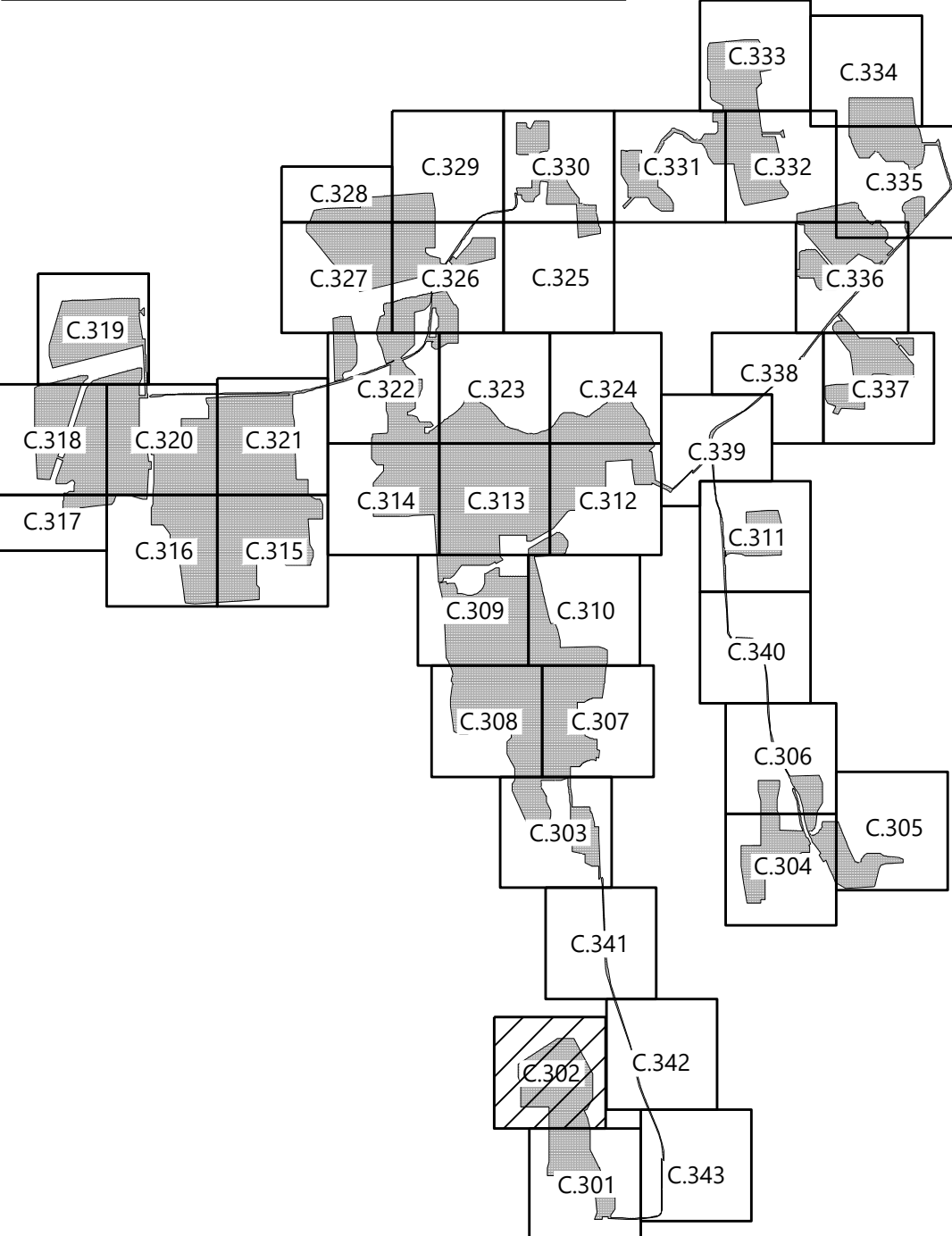


LEGEND:

- PROPERTY LINE
- PARCEL LINE
- EX. NYSDEC/USACE WETLAND
- EX. USACE WETLAND
- EX. NONJURISDICTIONAL WETLAND
- EX. DEC MAPPED WETLAND
- EX. STREAM
- EX. EDGE OF WATER
- EX. DRAINAGE DITCH
- EX. GRAVEL ROAD CENTERLINE
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- EX. PAVED ROAD
- EX. POWER POLE
- EX. OVERHEAD POWER
- EX. GAS LINE
- EX. FENCE
- EX. STRUCTURE
- EX. CULVERT
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- PROPOSED INDEX CONTOUR
- PROPOSED INTERVAL CONTOUR
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- PROPOSED INVERTER
- PROPOSED BATTERY STORAGE
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- PROPOSED PARKING AREA
- EX. SOILS
- PROPOSED DRAINAGE CROSSING
- PROPOSED CULVERT
- PROPOSED RIP-RAP
- PROPOSED BASIN
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- PROPOSED ROCK CONSTRUCTION ENTRANCE
- PROPOSED DRY SWALE
- PROPOSED LEVEL SPREADER
- PROPOSED BUFFER FILTER STRIP
- PROPOSED CONCRETE WASHOUT AREA
- PROPOSED INVASIVE SPECIES CLEANING STATION
- PROPOSED SWALE
- PROPOSED STORMWATER DITCH

SEE SHEET: C.342

KEYMAP:



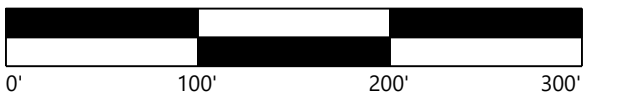
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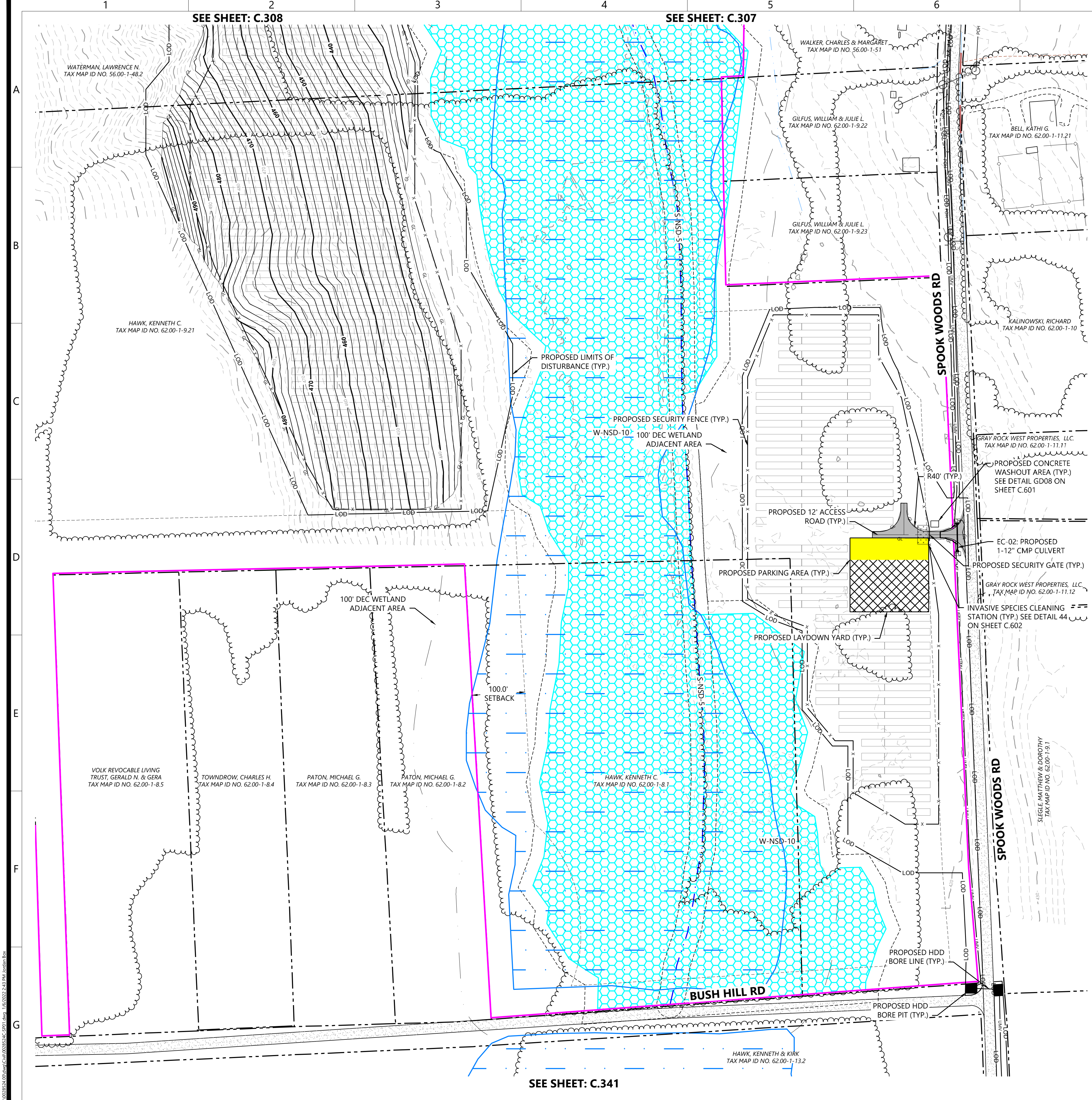
Civil Site Plan - 2

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SHEET: C.302

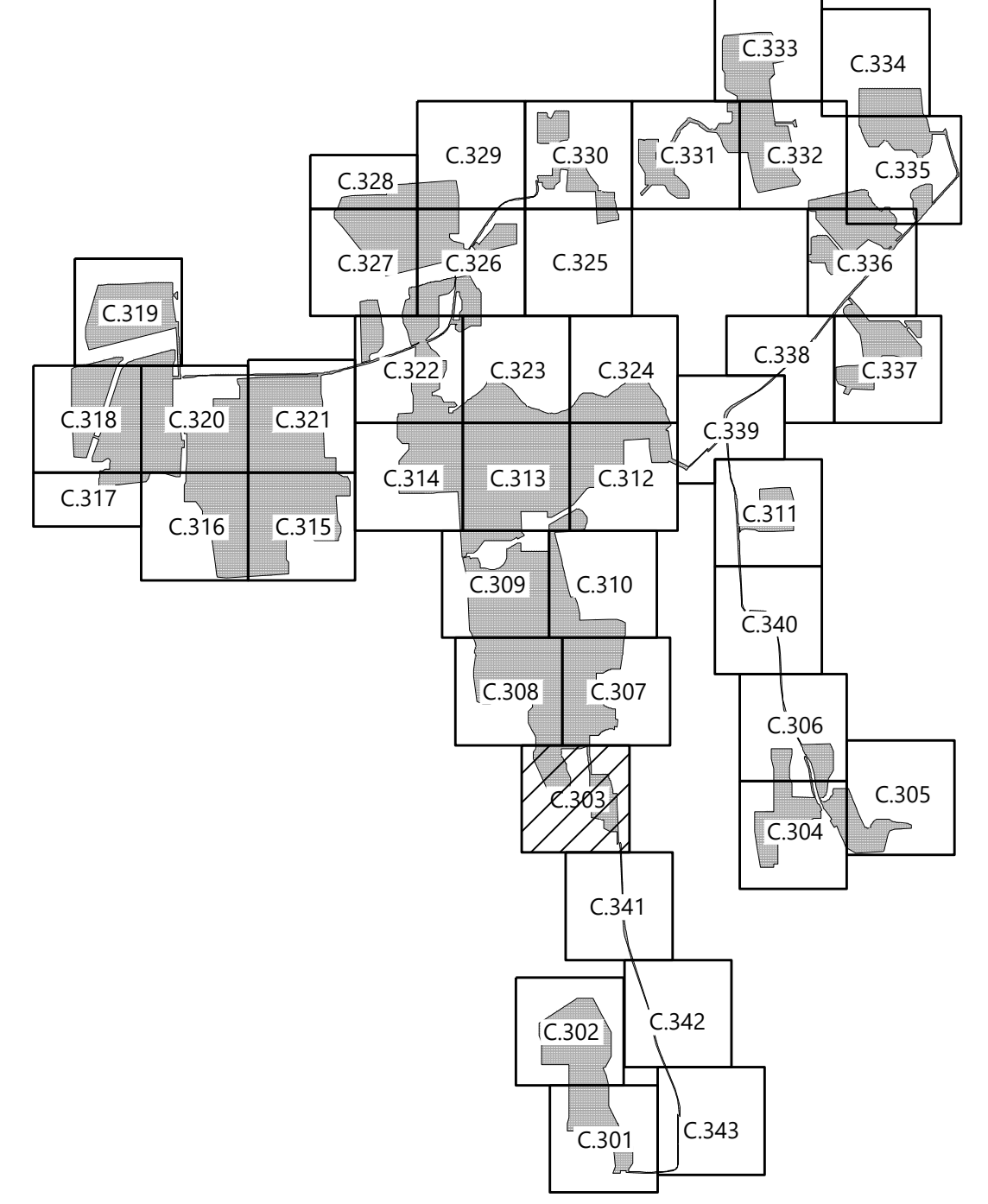
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LEGEND:

- PROPERTY LINE
- PARCEL LINE
- EX. NYSDEC/USACE WETLAND
- EX. USACE WETLAND
- EX. NONJURISDICTIONAL WETLAND
- EX. DEC MAPPED WETLAND
- EX. STREAM
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- EX. GRAVEL ROAD CENTERLINE
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- PROPOSED SWALE
- PROPOSED STORMWATER DITCH

KEYMAP:



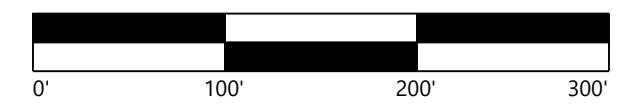
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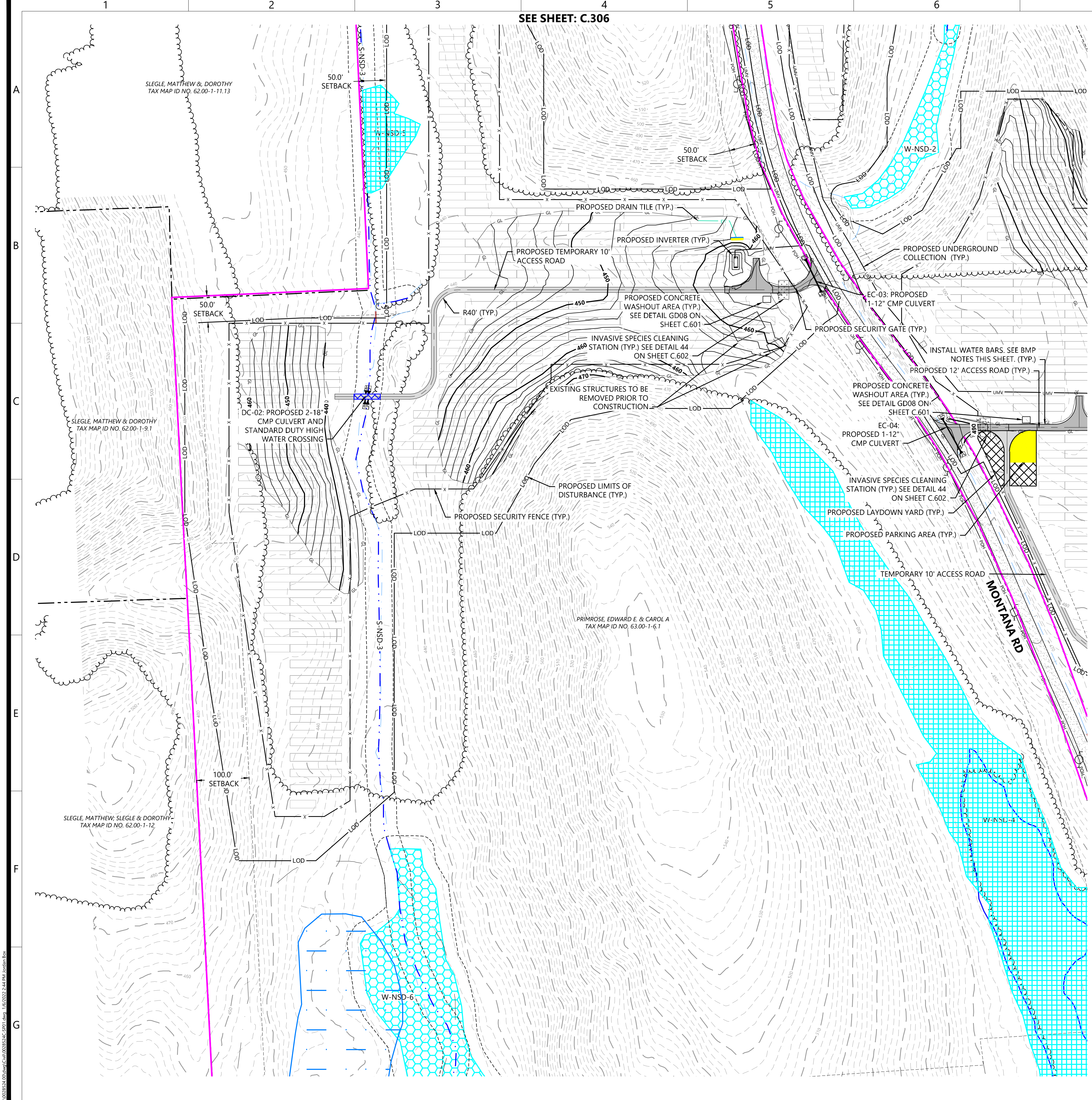
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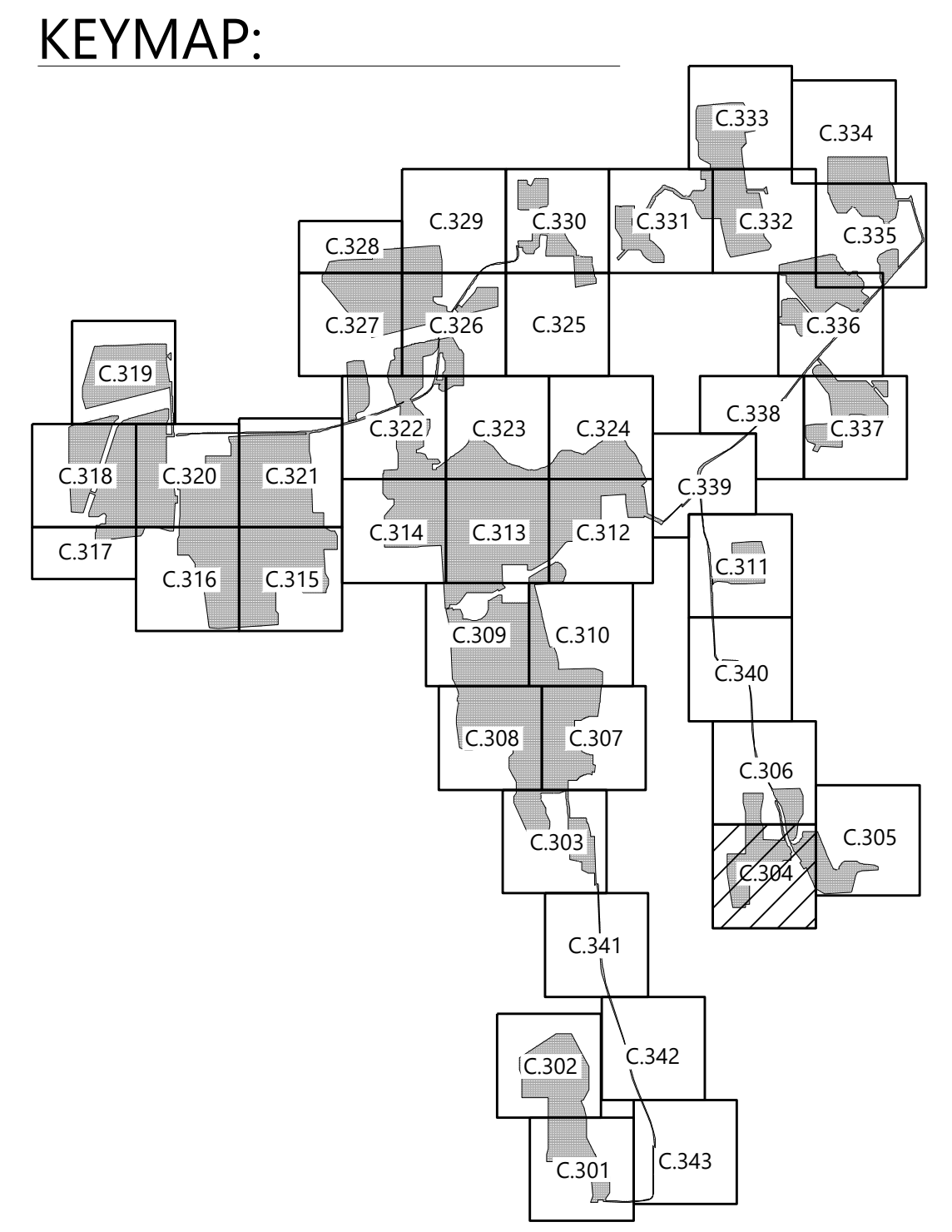
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- LEGEND:**
- PROPERTY LINE
 - PARCEL LINE
 - EX. NYSDEC/USACE WETLAND
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 - EX. NONJURISDICTIONAL WETLAND
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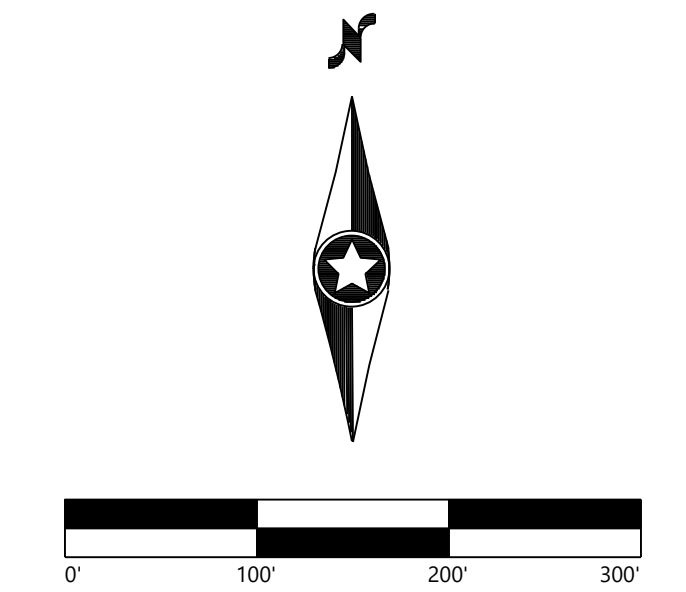
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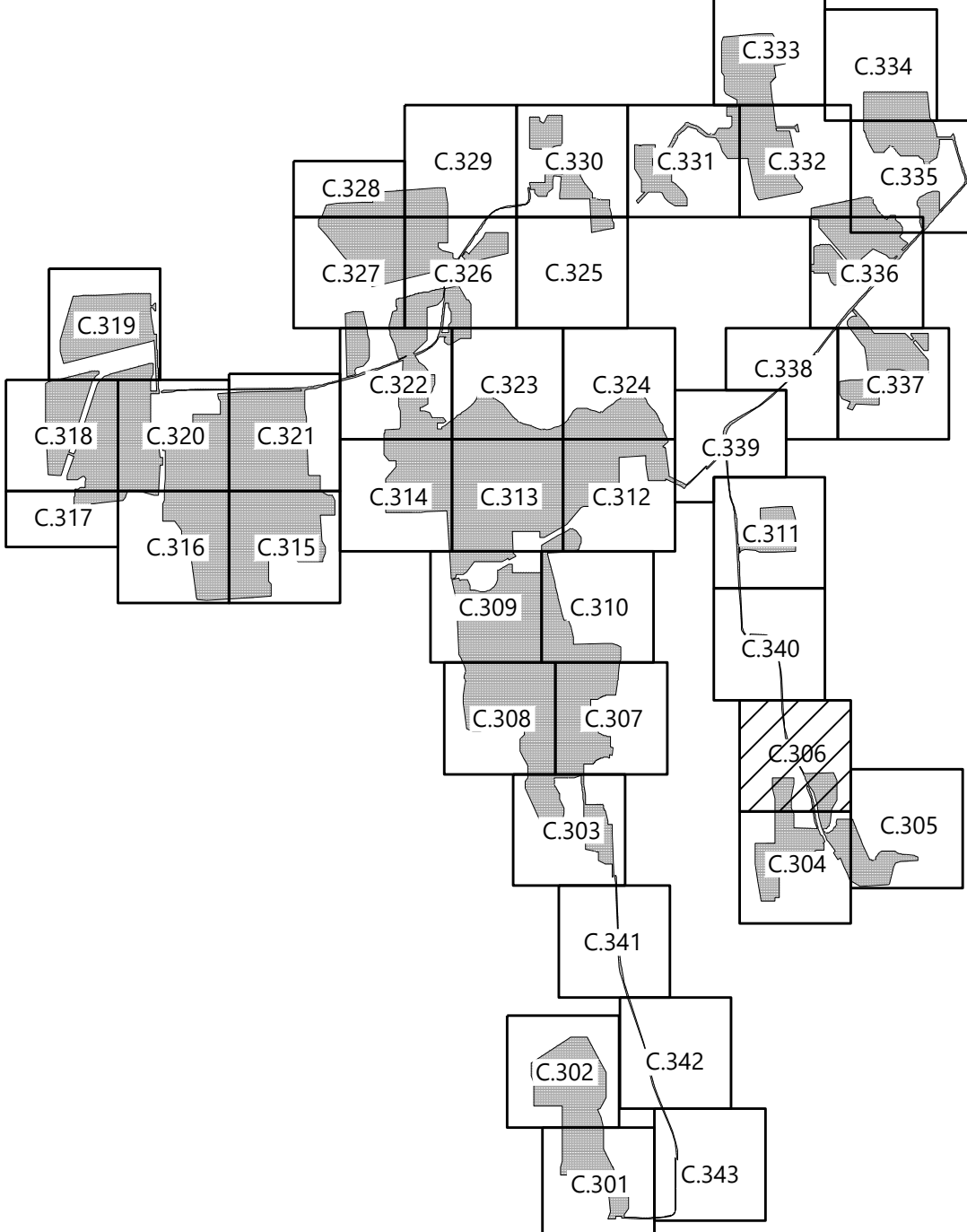
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LEGEND:

- PROPERTY LINE
- PARCEL LINE
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- EX. USACE WETLAND
- EX. NONJURISDICTIONAL WETLAND
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- PROPOSED INVASIVE SPECIES CLEANING STATION
- PROPOSED SWALE
- PROPOSED STORMWATER DITCH

KEYMAP:



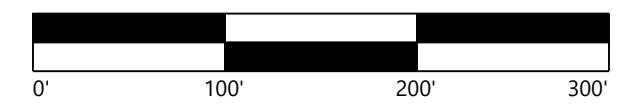
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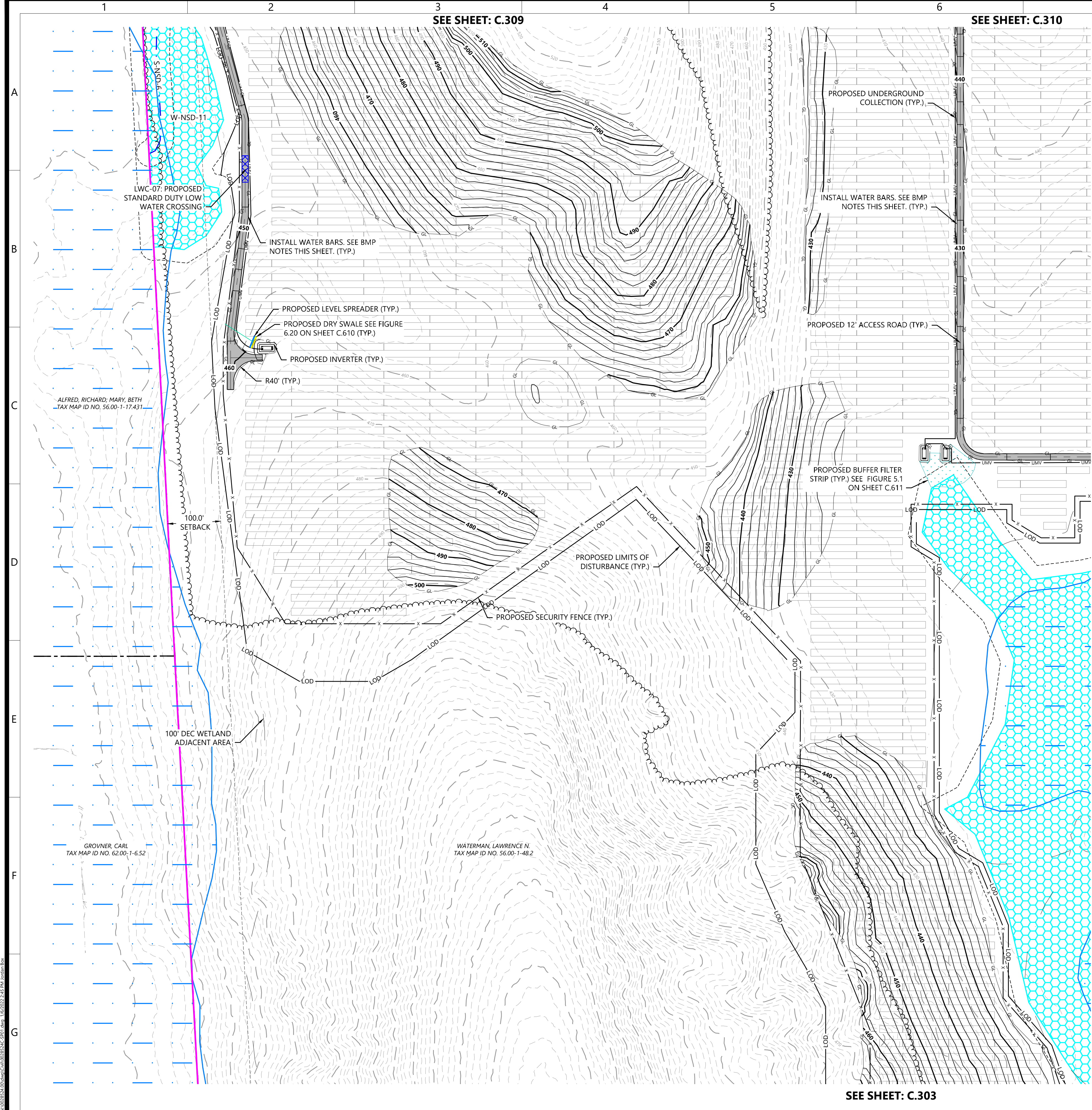
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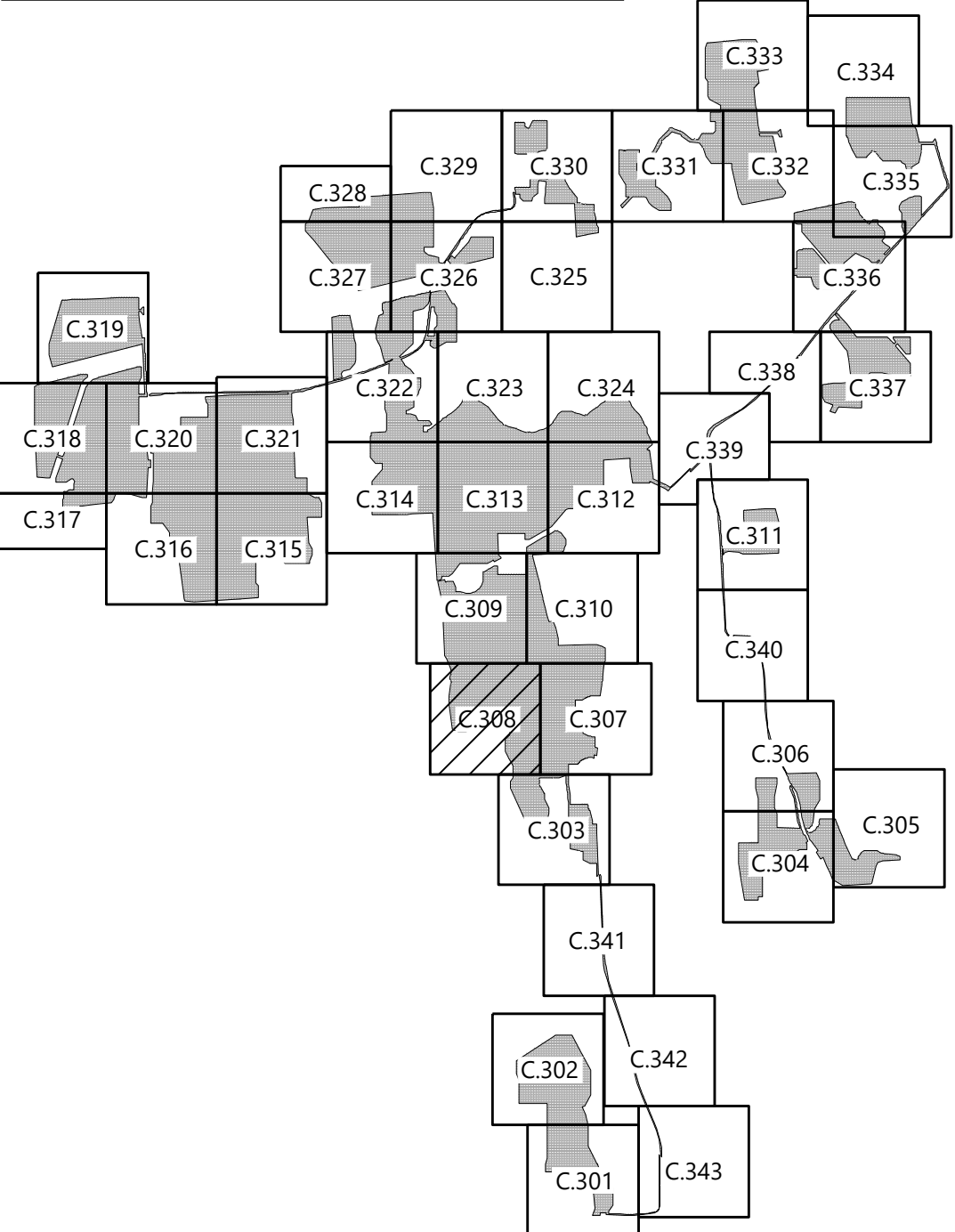
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LEGEND:

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- EX. USACE WETLAND
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- PROPOSED DRAINAGE CROSSING
- PROPOSED CULVERT
- PROPOSED RIP-RAP
- PROPOSED BASIN
- PROPOSED DRAIN TILE
- PROPOSED UNDERGROUND COLLECTION
- PROPOSED HORIZONTAL DIRECTIONAL DRILLING
- PROPOSED HDD BORE PIT
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- PROPOSED DRY SWALE
- PROPOSED LEVEL SPREADER
- PROPOSED BUFFER FILTER STRIP
- PROPOSED CONCRETE WASHOUT AREA
- PROPOSED INVASIVE SPECIES CLEANING STATION
- PROPOSED SWALE
- PROPOSED STORMWATER DITCH

KEYMAP:



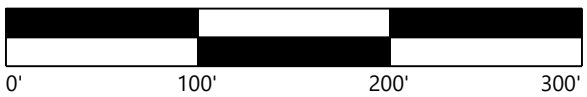
PREPARED FOR:



700 Universe Boulevard
Juno Beach, FL 33408

REVISIONS:

#	DATE	COMMENT
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**Garnet Energy
Center**

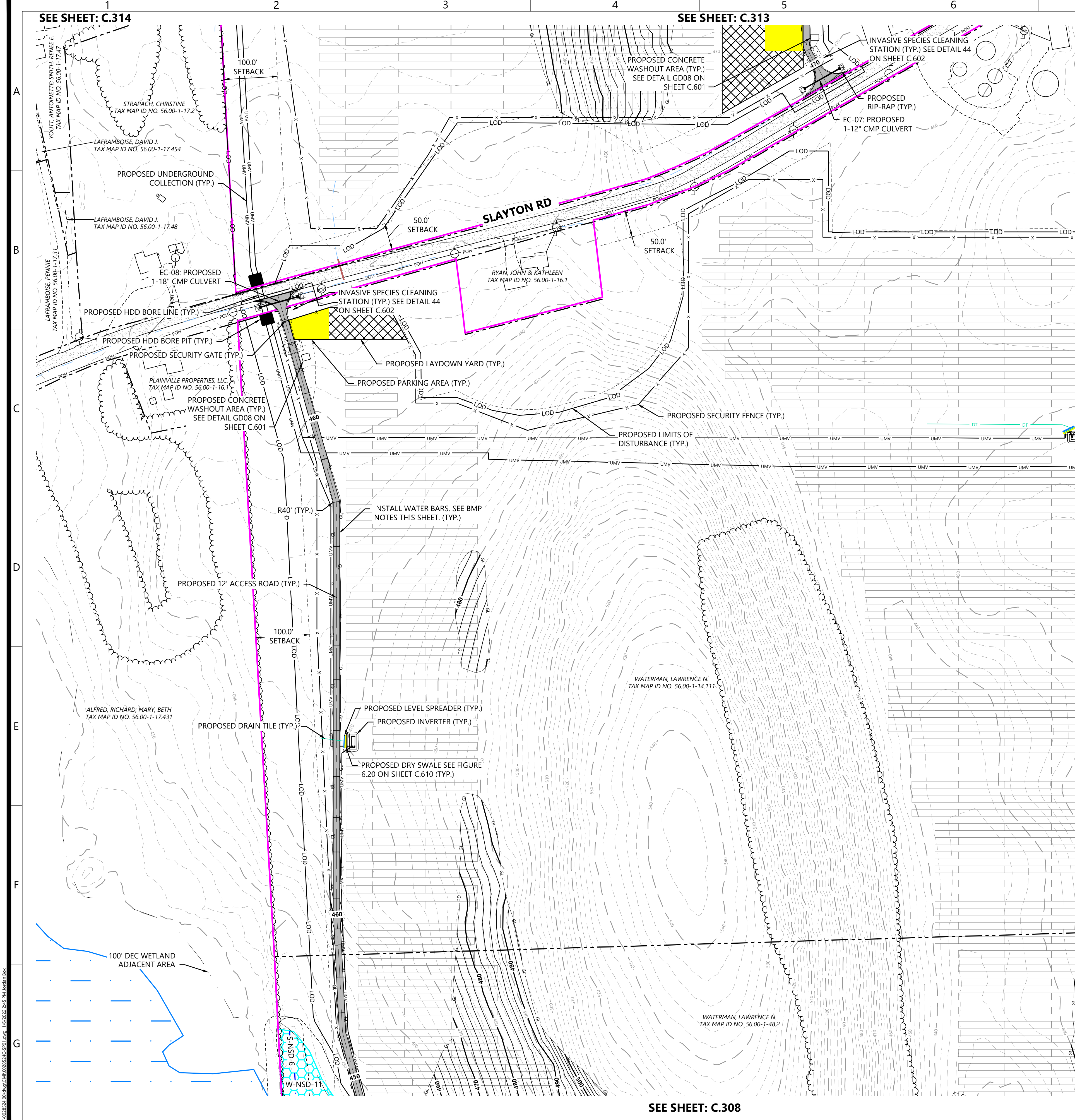
Cayuga County, New York

Civil Site Plan - 8

PRELIMINARY
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DATE: 01/06/2022

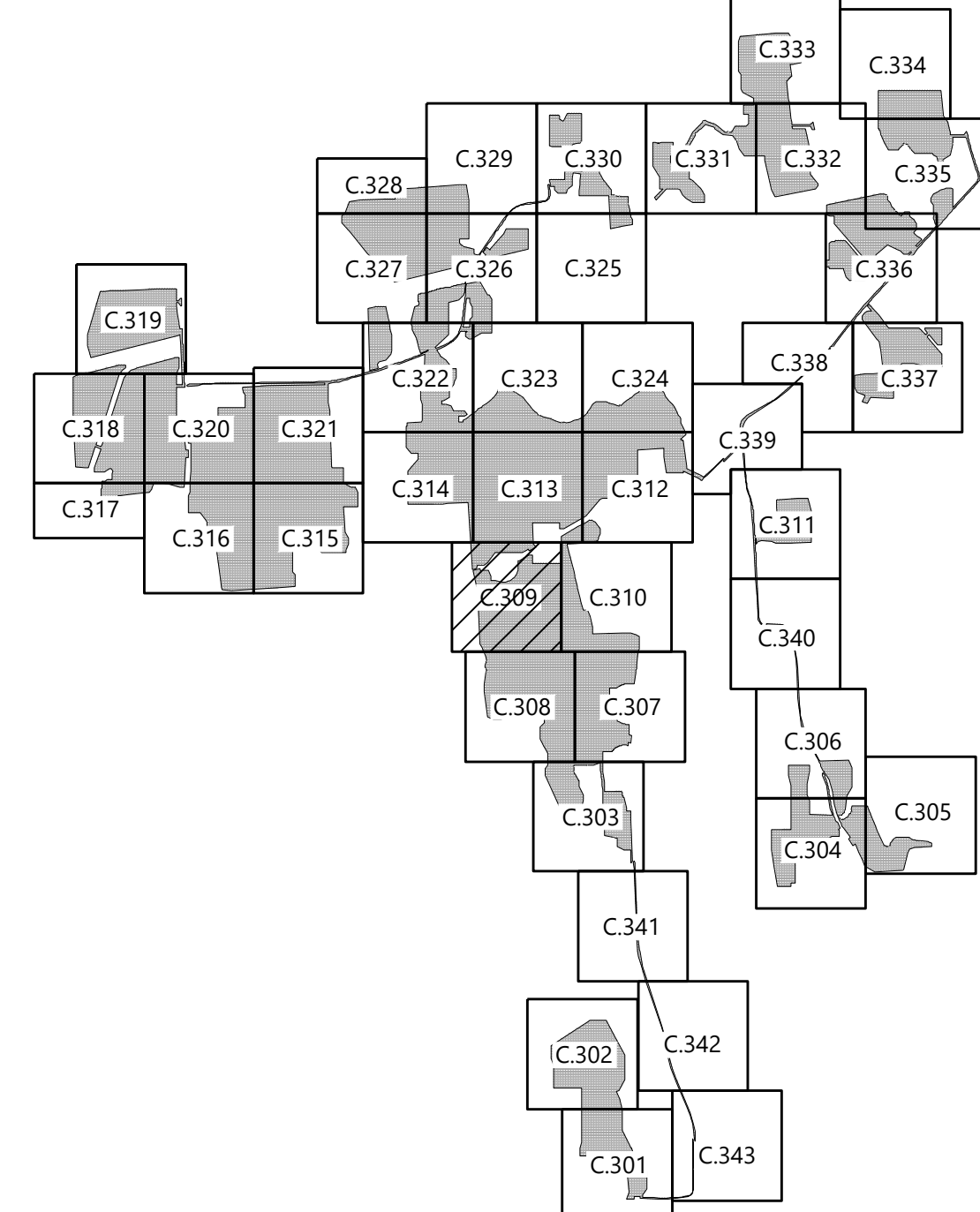
SHEET: C.308



LEGEND:

- PROPERTY LINE
- PARCEL LINE
- EX. NYSDEC/USACE WETLAND
- EX. USACE WETLAND
- EX. NONJURISDICTIONAL WETLAND
- EX. DEC MAPPED WETLAND
- EX. STREAM
- EX. EDGE OF WATER
- EX. DRAINAGE DITCH
- EX. GRAVEL ROAD CENTERLINE
- 100' DEC WETLAND ADJACENT AREA
- EX. PAVED ROAD
- EX. POWER POLE
- EX. OVERHEAD POWER
- EX. GAS LINE
- EX. FENCE
- EX. STRUCTURE
- EX. CULVERT
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- PROPOSED INDEX CONTOUR
- PROPOSED INTERVAL CONTOUR
- PROPOSED SOLAR ARRAY
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- PROPOSED INVERTER
- PROPOSED BATTERY STORAGE
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- PROPOSED LAYDOWN YARD
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- LIMIT OF DISTURBANCE
- PROPOSED GRADING LIMITS
- PROPOSED PARKING AREA
- EX. SOILS
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- PROPOSED RIP-RAP
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- PROPOSED CONCRETE WASHOUT AREA
- PROPOSED INVASIVE SPECIES CLEANING STATION
- PROPOSED SWALE
- PROPOSED STORMWATER DITCH

KEYMAP:



Westwood
Surveying & Engineering
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Fax (952) 937-5822 Minnetonka, MN 55343
Toll Free (888) 937-5150 www.pc.com
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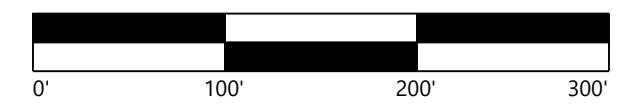
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Juno Beach, FL 33408

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Cayuga County, New York

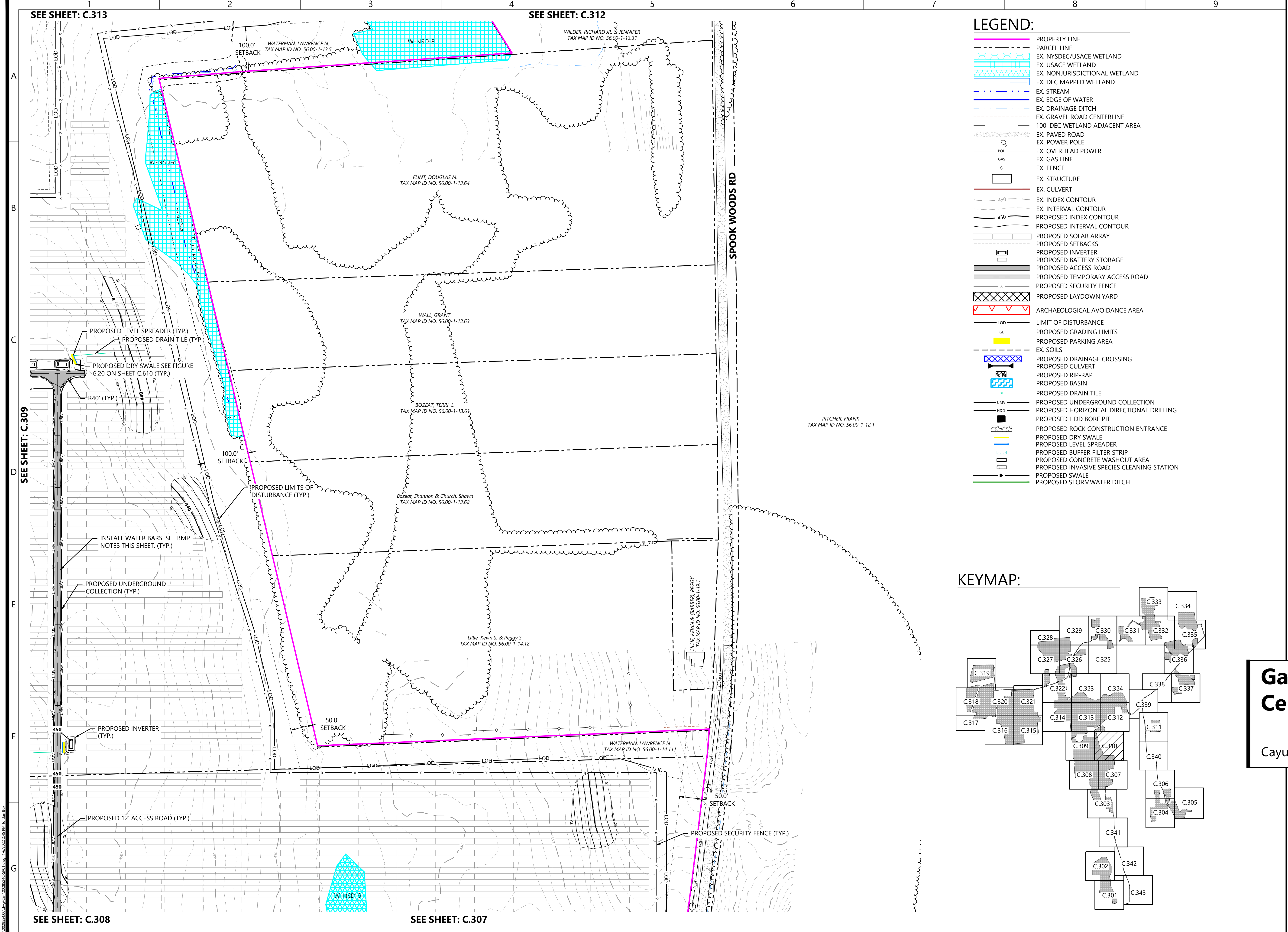
Civil Site Plan - 9

PRELIMINARY
NOT FOR CONSTRUCTION

DATE: 01/06/2022

SHEET: C.309

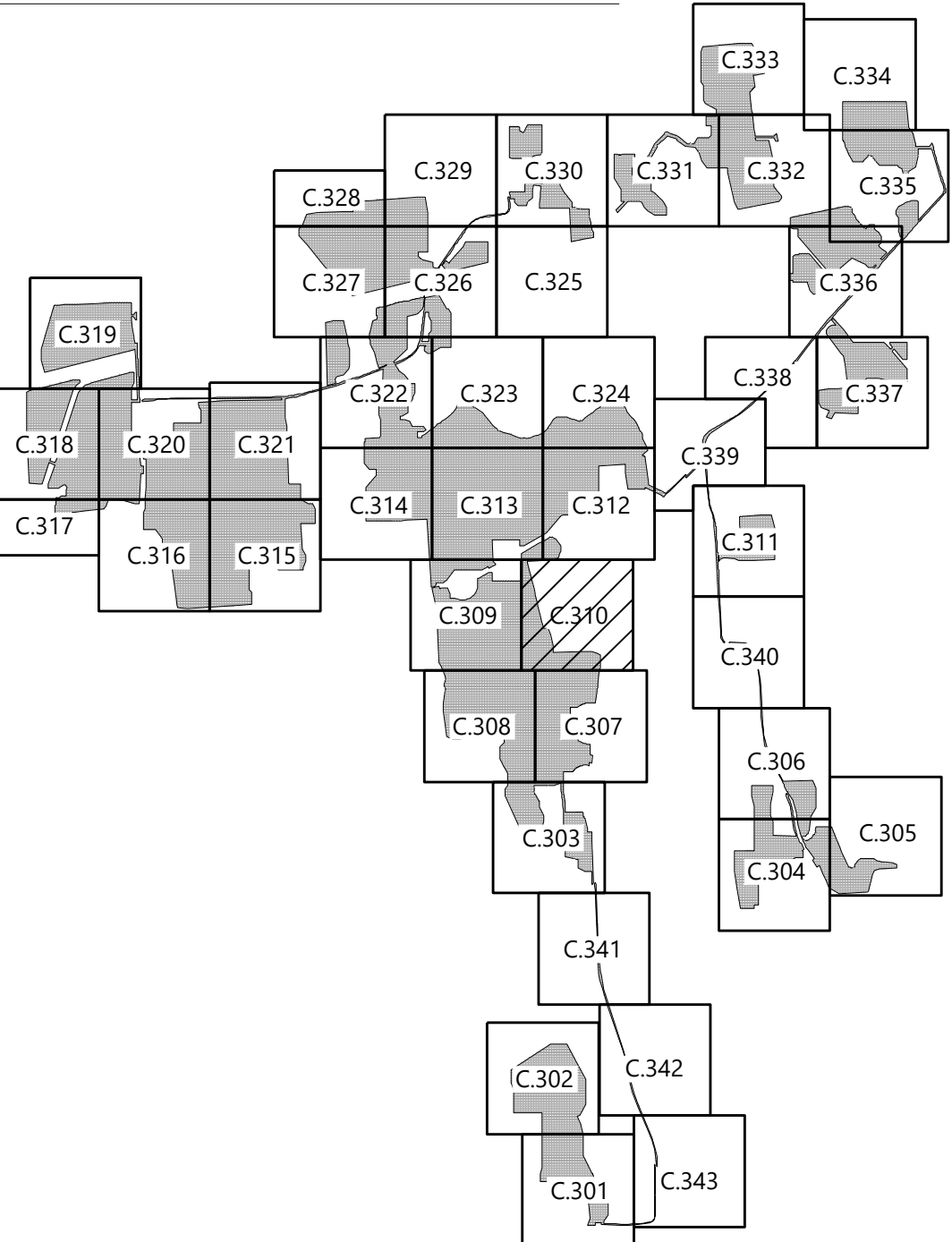
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LEGEND:

- PROPERTY LINE
- PARCEL LINE
- EX. NYSDEC/USACE WETLAND
- EX. USACE WETLAND
- EX. NONJURISDICTIONAL WETLAND
- EX. DEC MAPPED WETLAND
- EX. STREAM
- EX. EDGE OF WATER
- EX. DRAINAGE DITCH
- EX. GRAVEL ROAD CENTERLINE
- 100' DEC WETLAND ADJACENT AREA
- EX. PAVED ROAD
- EX. POWER POLE
- EX. OVERHEAD POWER
- EX. GAS LINE
- EX. FENCE
- EX. STRUCTURE
- EX. CULVERT
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
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- PROPOSED INTERVAL CONTOUR
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- PROPOSED SWALE
- PROPOSED STORMWATER DITCH

KEYMAP:



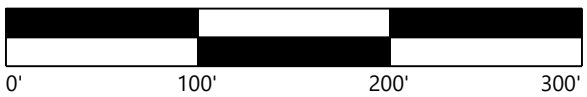
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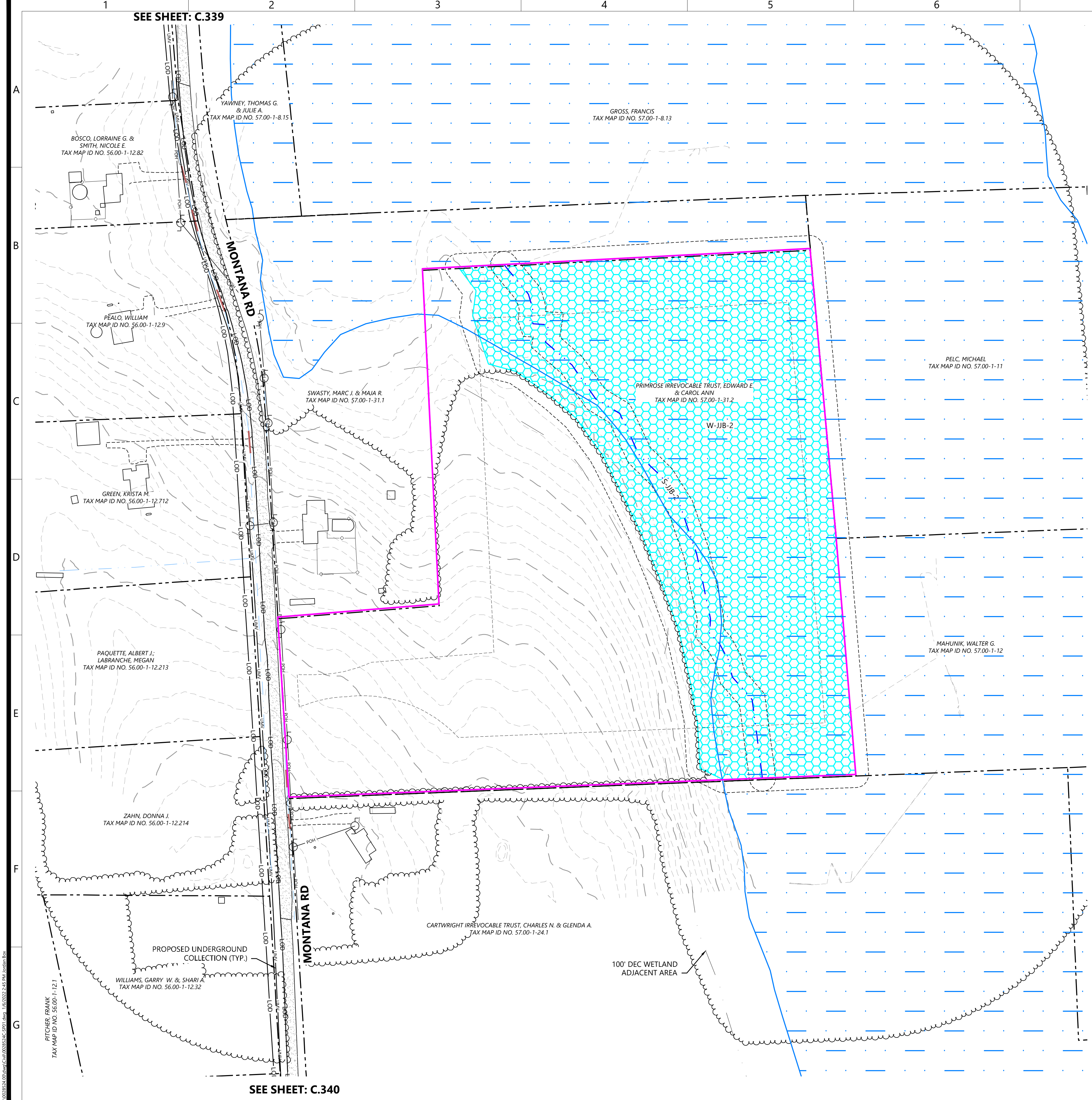
Cayuga County, New York

Civil Site Plan - 10

PRELIMINARY
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DATE: 01/06/2022

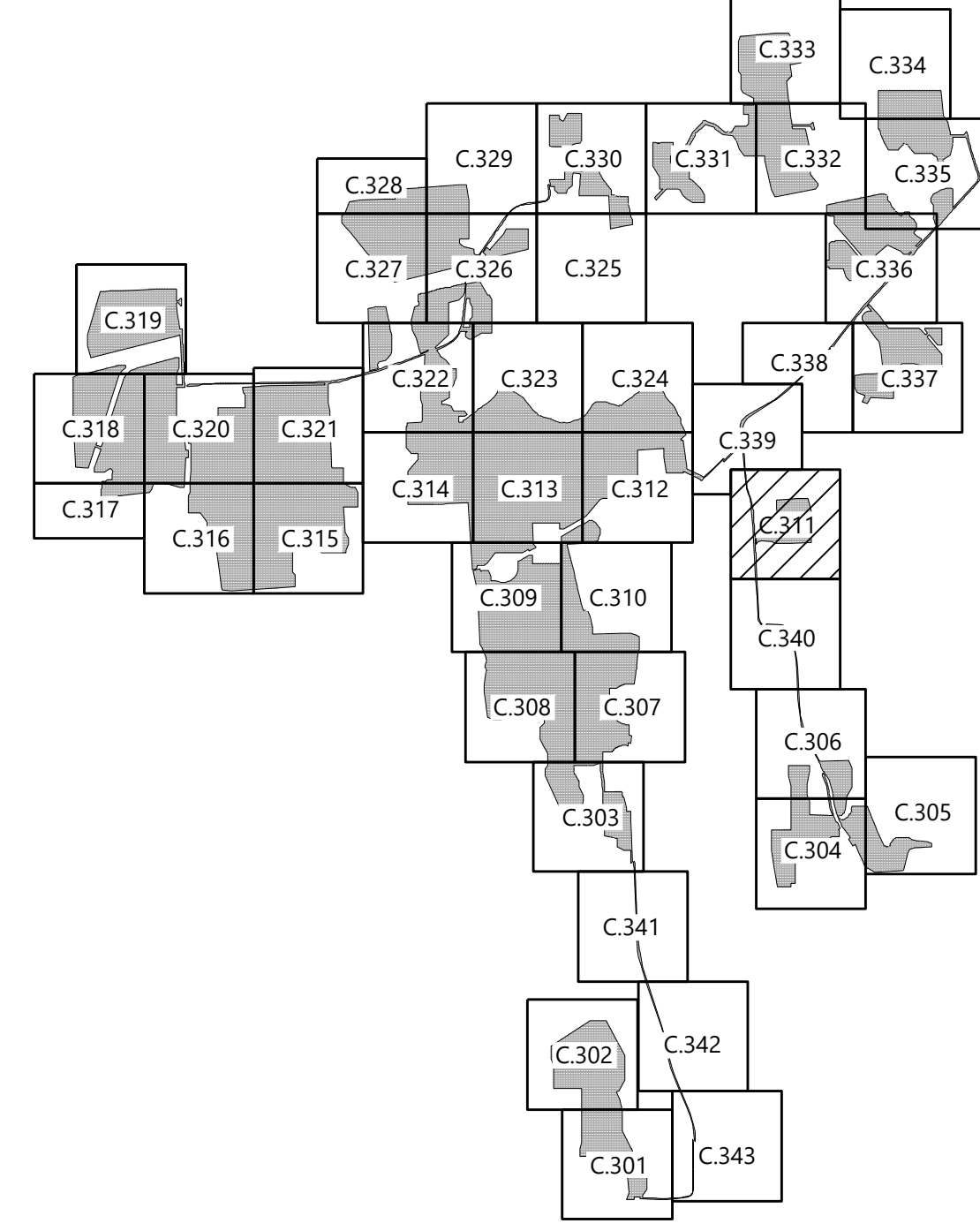
SHEET: C.310



LEGEND:

- PROPERTY LINE
- PARCEL LINE
- EX. NYSDEC/USACE WETLAND
- EX. USACE WETLAND
- EX. NONJURISDICTIONAL WETLAND
- EX. DEC MAPPED WETLAND
- EX. STREAM
- EX. EDGE OF WATER
- EX. DRAINAGE DITCH
- EX. GRAVEL ROAD CENTERLINE
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- EX. PAVED ROAD
- EX. POWER POLE
- EX. OVERHEAD POWER
- EX. GAS LINE
- EX. FENCE
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- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
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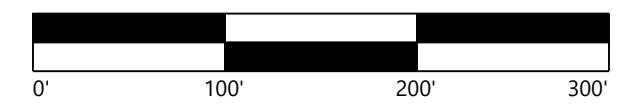
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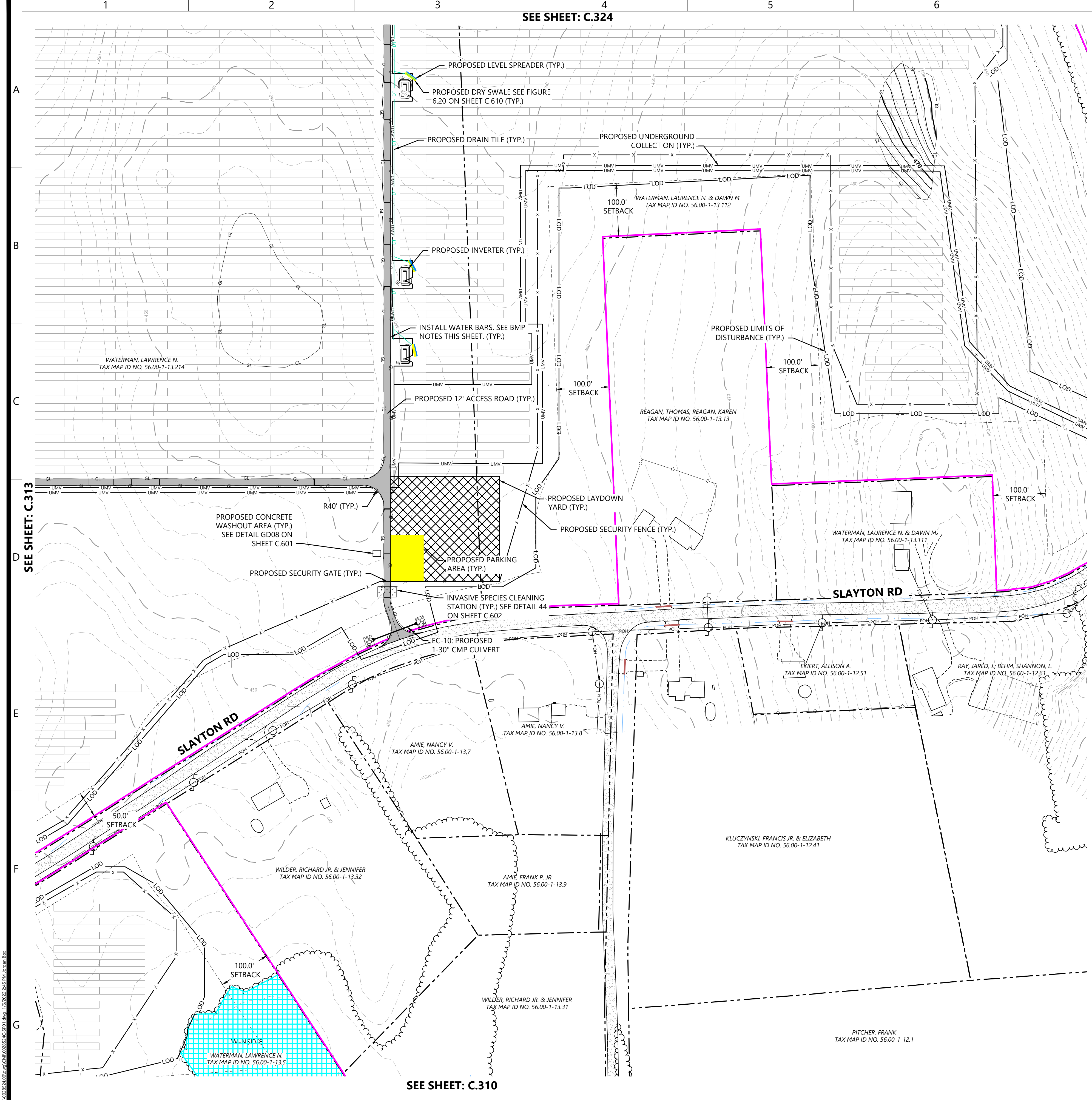
Cayuga County, New York

Civil Site Plan - 11

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DATE: 01/06/2022

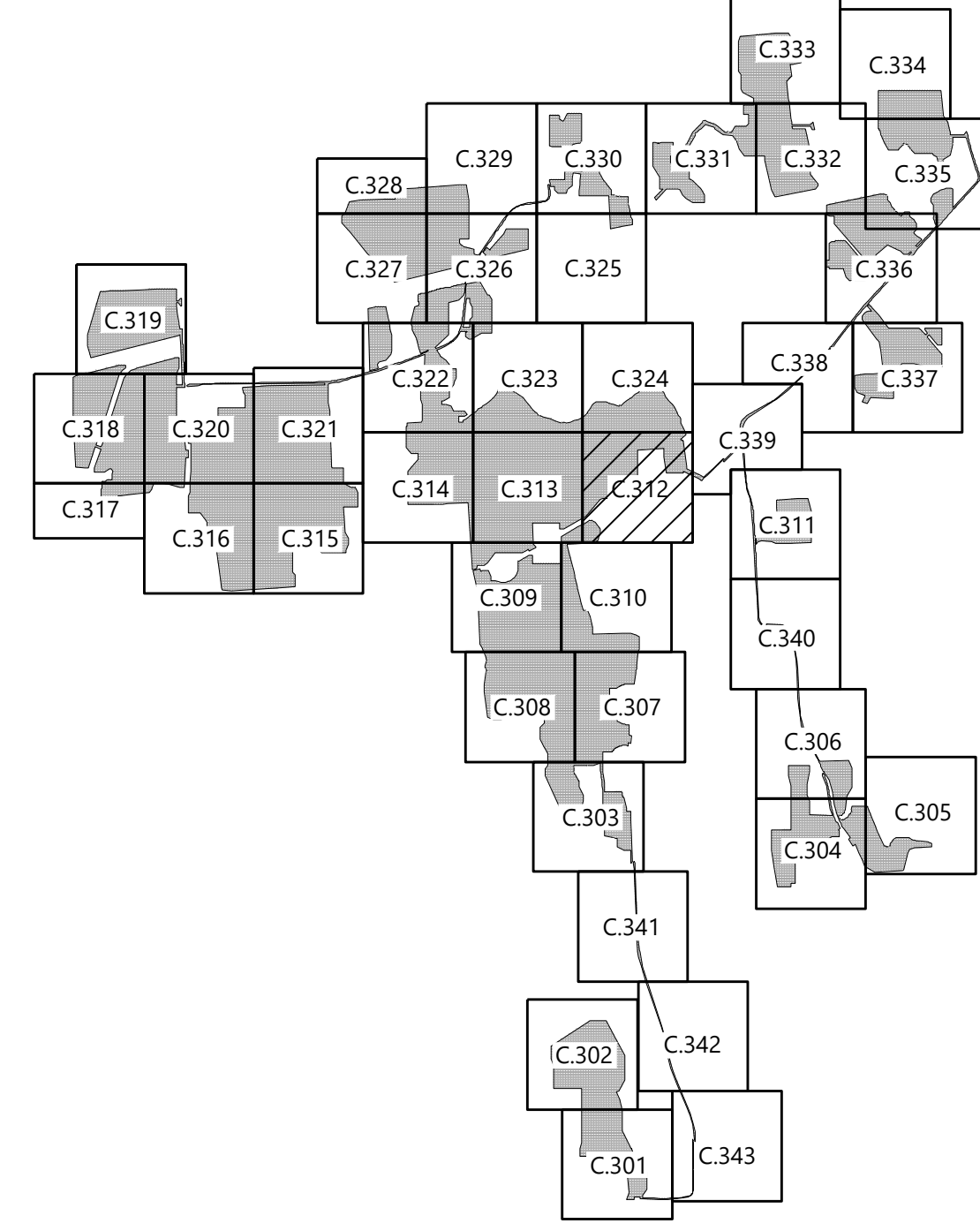
SHEET: C.311



LEGEND:

- PROPERTY LINE
- PARCEL LINE
- EX. NYSDEC/USACE WETLAND
- EX. USACE WETLAND
- EX. NONJURISDICTIONAL WETLAND
- EX. DEC MAPPED WETLAND
- EX. STREAM
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- EX. PAVED ROAD
- EX. POWER POLE
- EX. OVERHEAD POWER
- EX. GAS LINE
- EX. FENCE
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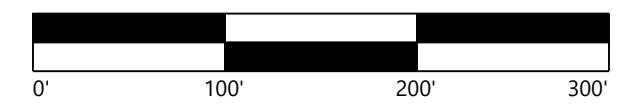
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Cayuga County, New York

Civil Site Plan - 12

PRELIMINARY
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DATE: 01/06/2022

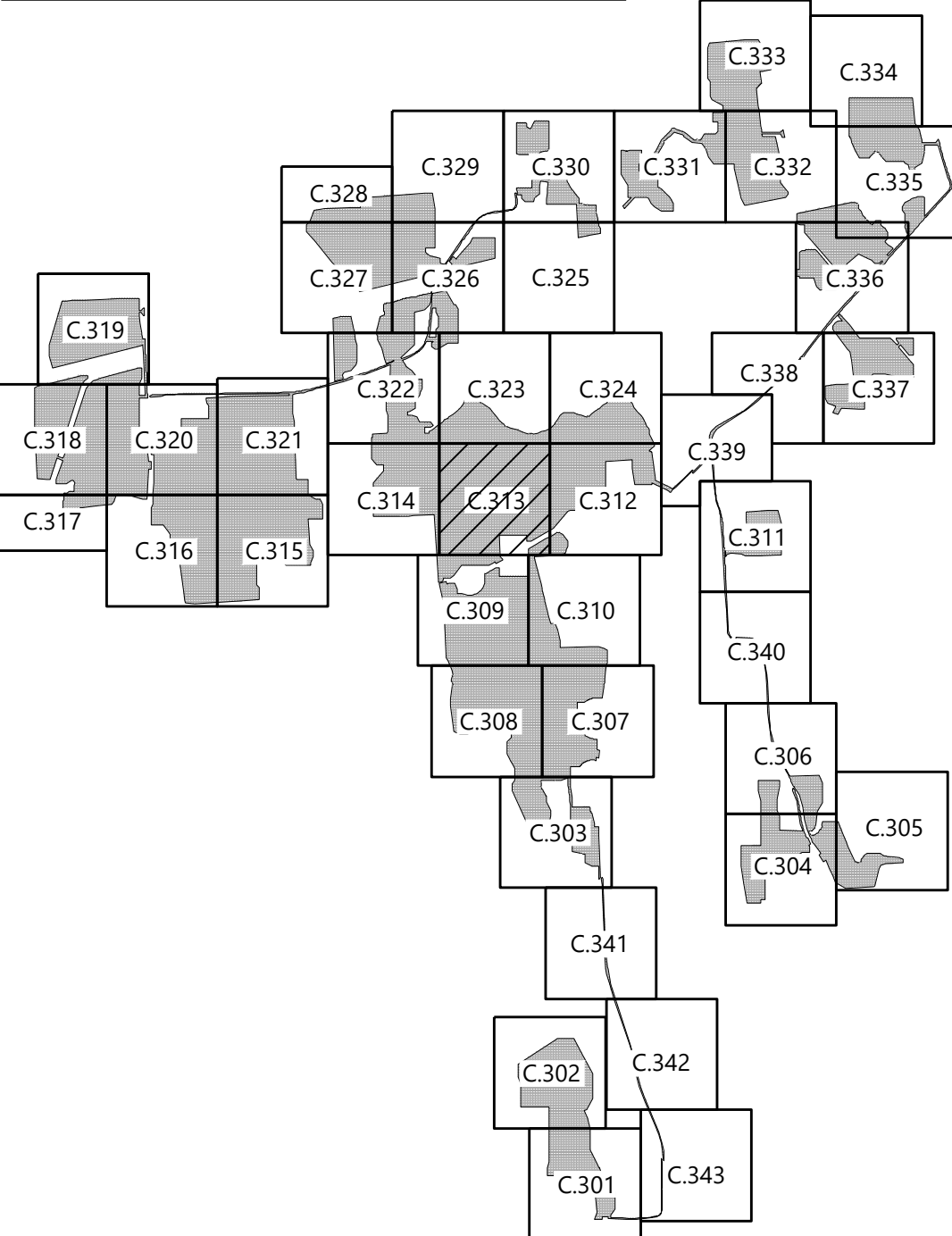
SHEET: C.312



LEGEND:

- PROPERTY LINE
- PARCEL LINE
- EX. NYSDEC/USACE WETLAND
- EX. USACE WETLAND
- EX. NONJURISDICTIONAL WETLAND
- EX. DEC MAPPED WETLAND
- EX. STREAM
- EX. EDGE OF WATER
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- EX. POWER POLE
- EX. OVERHEAD POWER
- EX. GAS LINE
- EX. FENCE
- EX. STRUCTURE
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- PROPOSED CONCRETE WASHOUT AREA
- PROPOSED INVASIVE SPECIES CLEANING STATION
- PROPOSED SWALE
- PROPOSED STORMWATER DITCH

KEYMAP:



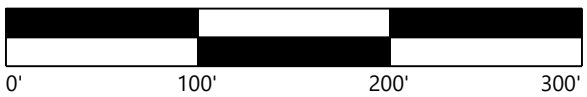
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Cayuga County, New York

Civil Site Plan - 13

PRELIMINARY
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DATE: 01/06/2022

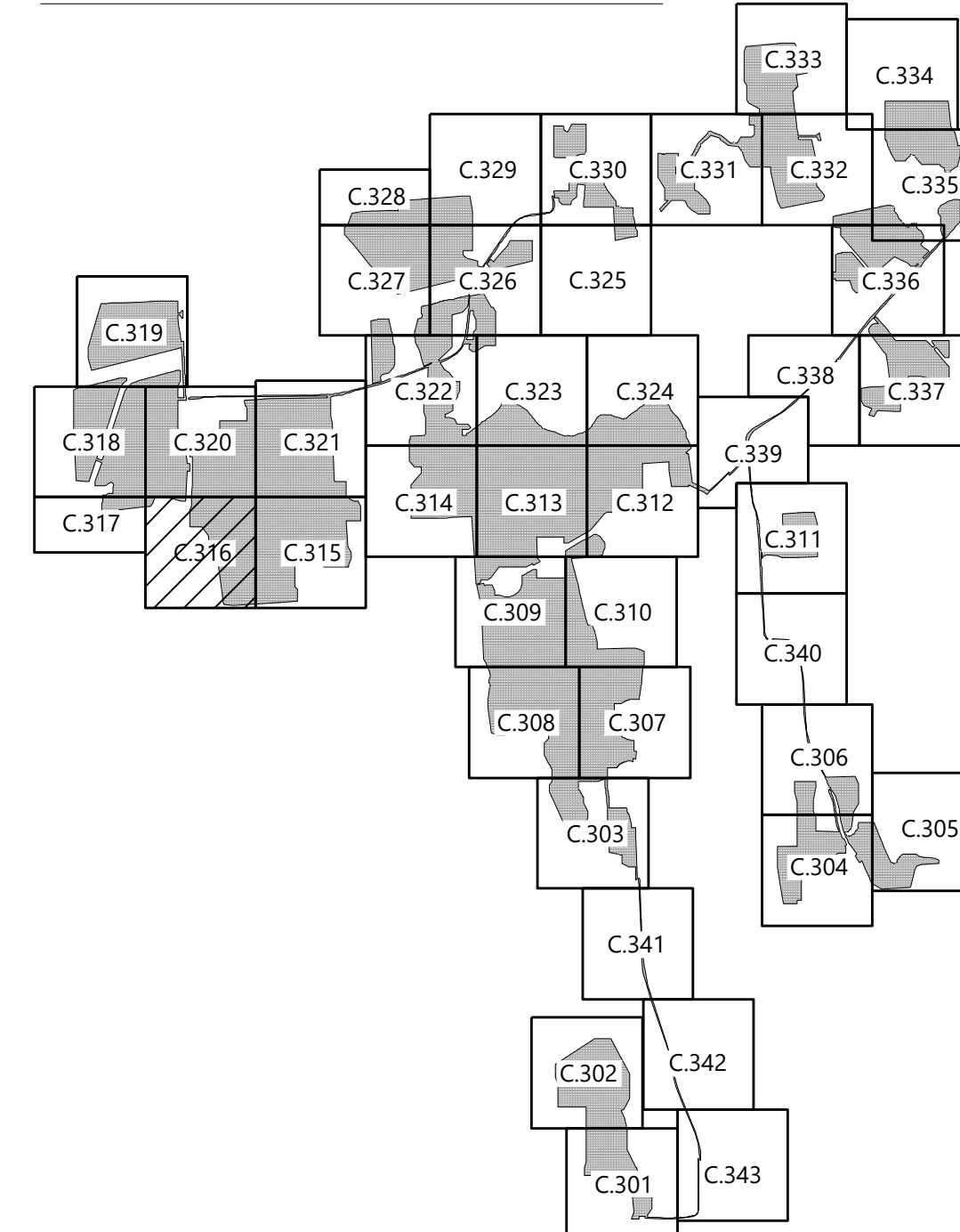
SHEET: C.313



LEGEND:

- PROPERTY LINE
- PARCEL LINE
- EX. NYSDEC/USACE WETLAND
- EX. USACE WETLAND
- EX. NONJURISDICTIONAL WETLAND
- EX. DEC MAPPED WETLAND
- EX. STREAM
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- EX. DRAINAGE DITCH
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KEYMAP:



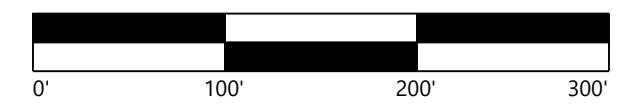
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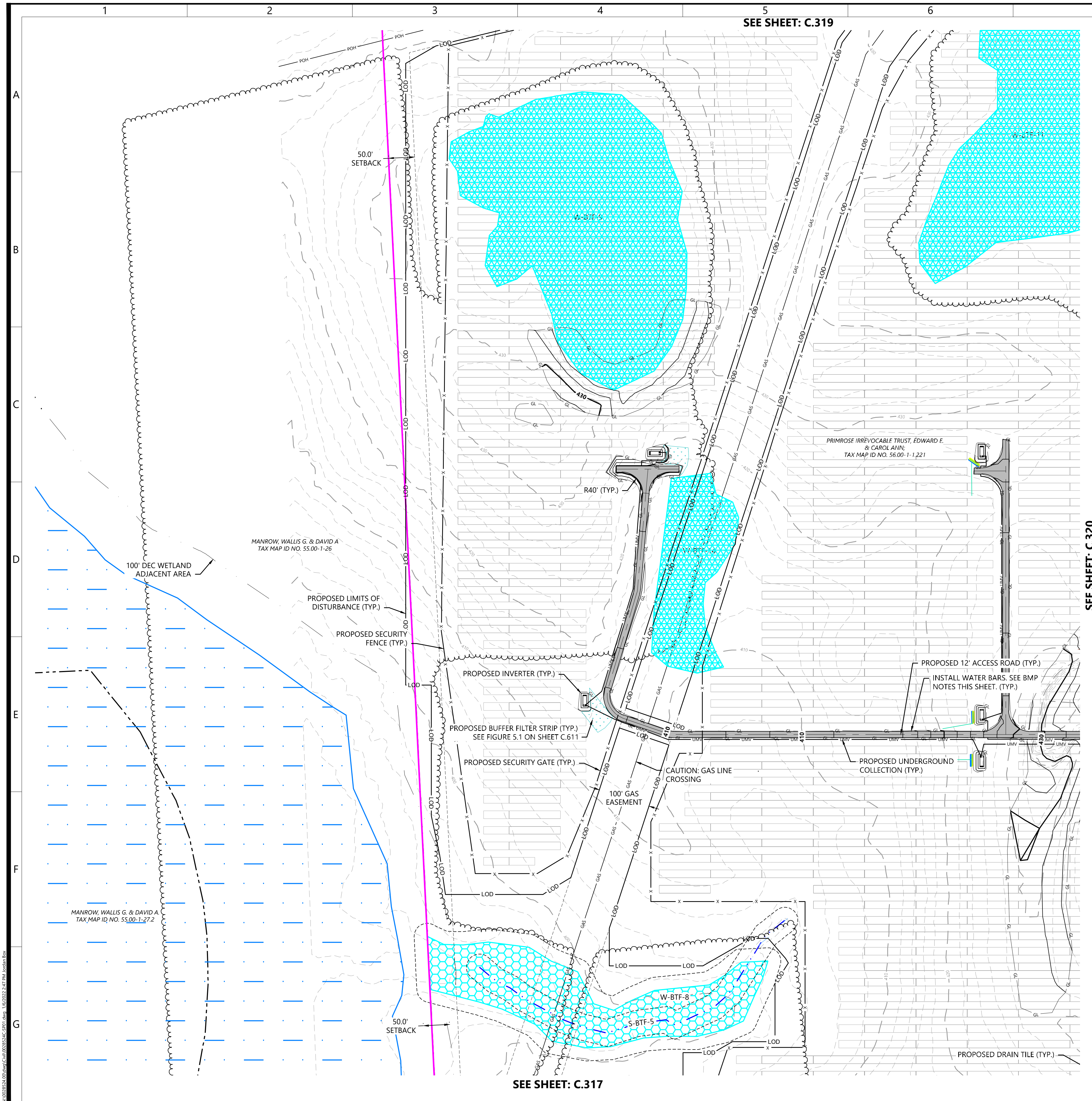
Cayuga County, New York

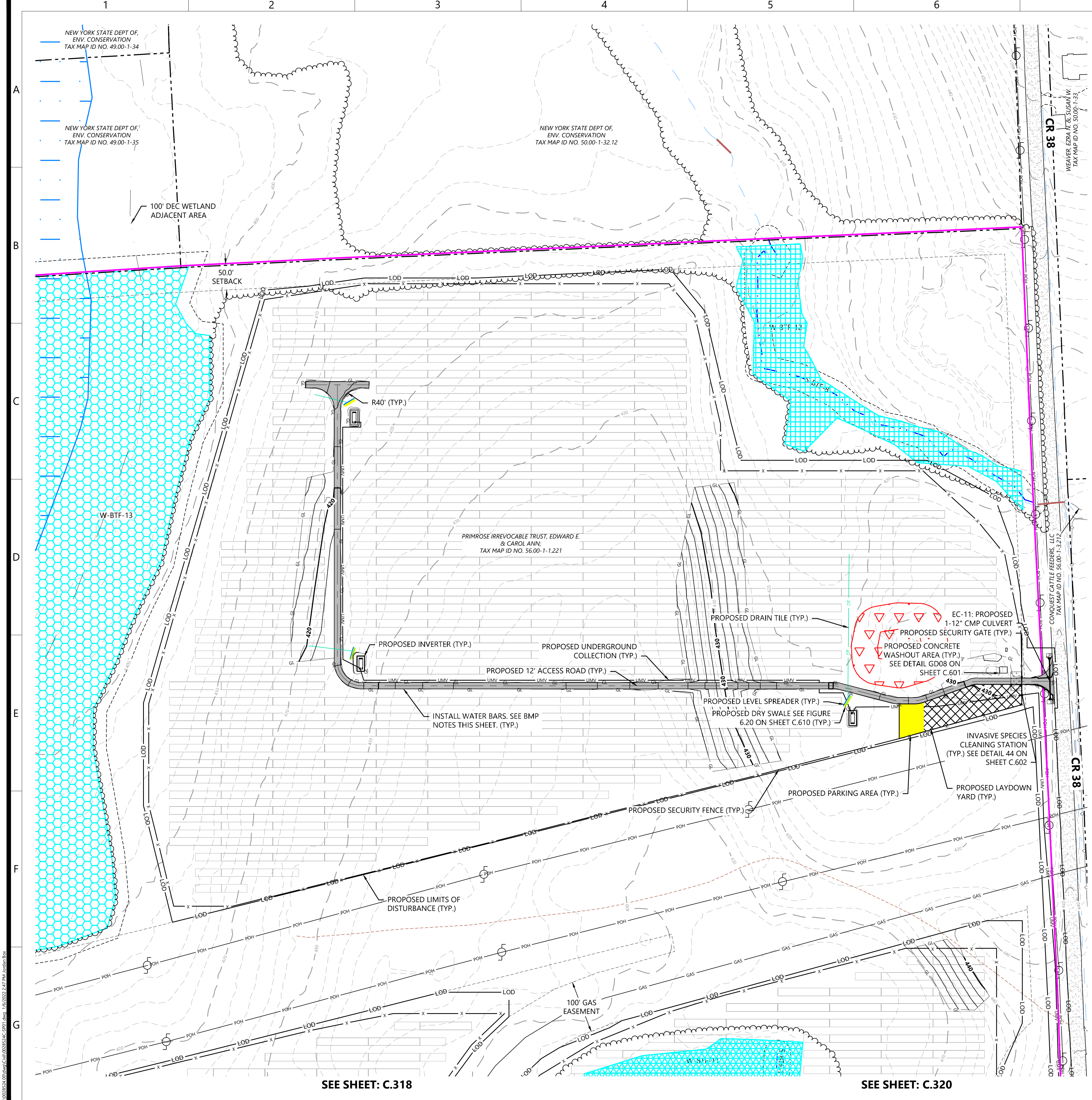
Civil Site Plan - 16

PRELIMINARY
NOT FOR CONSTRUCTION

DATE: 01/06/2022

SHEET: C.316

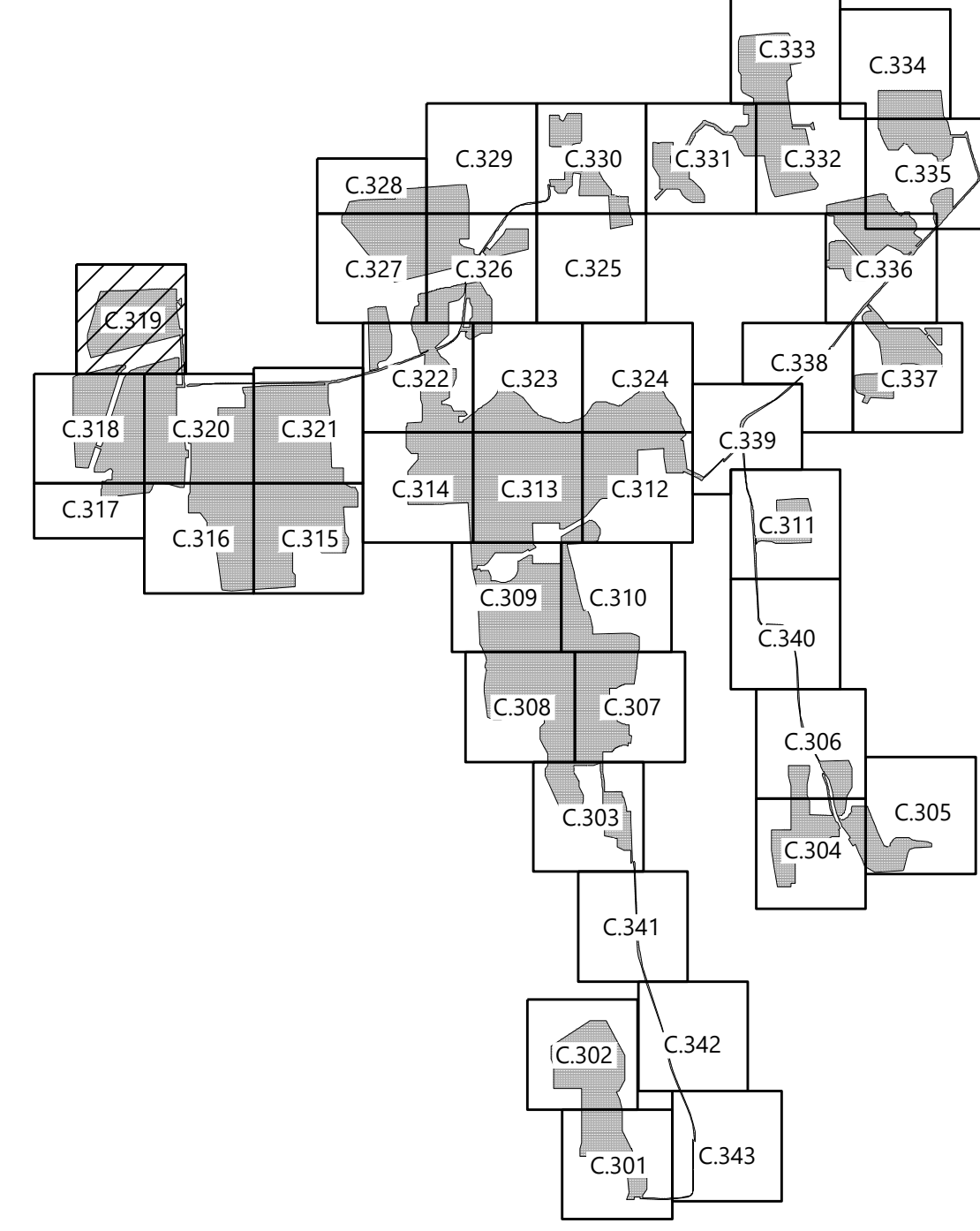




LEGEND:

- PROPERTY LINE
- PARCEL LINE
- EX. NYSDEC/USACE WETLAND
- EX. USACE WETLAND
- EX. NONJURISDICTIONAL WETLAND
- EX. DEC MAPPED WETLAND
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KEYMAP:



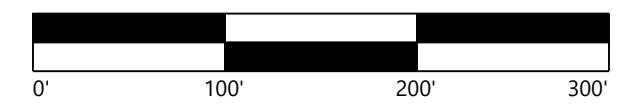
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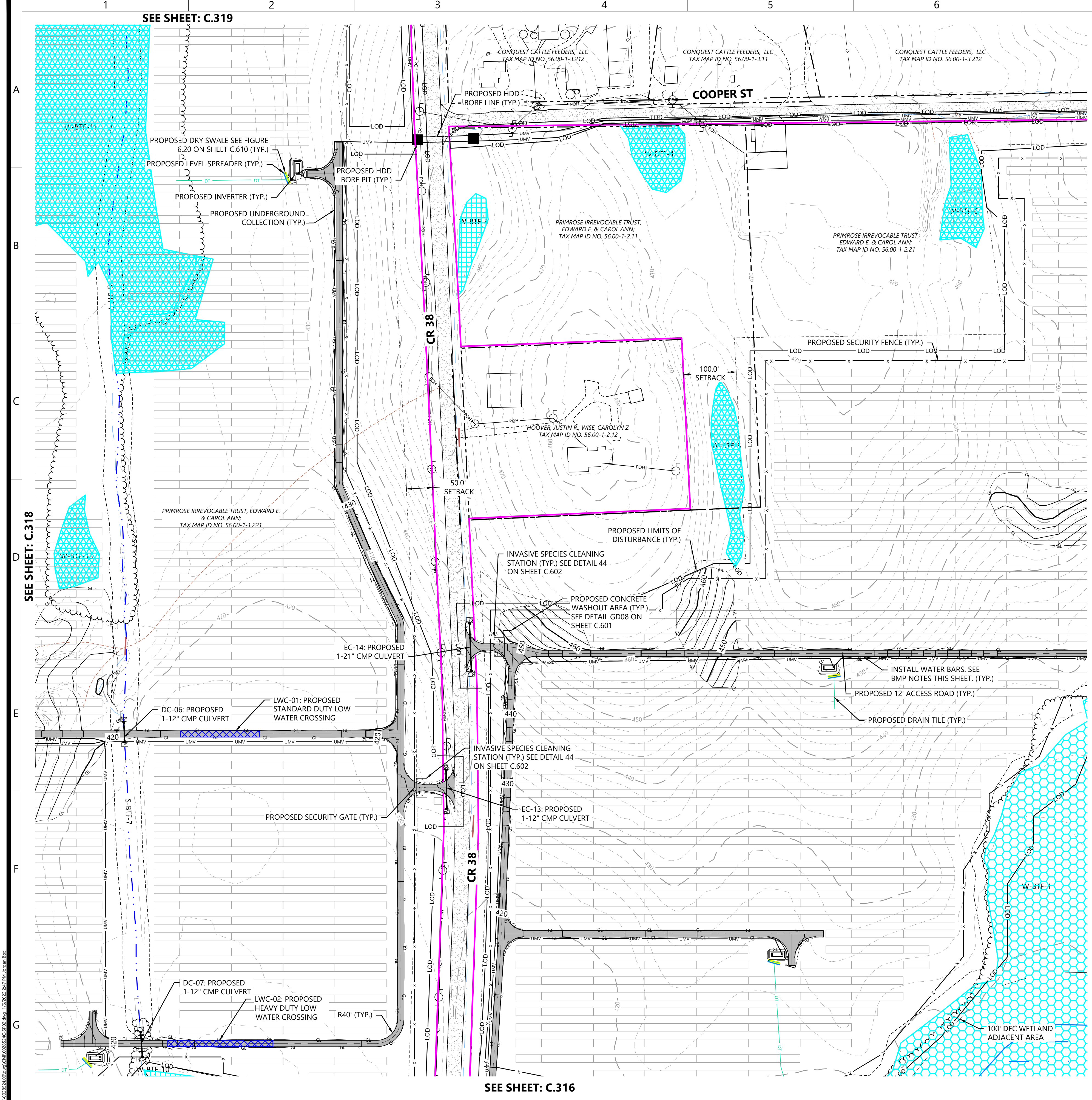
Cayuga County, New York

Civil Site Plan - 19

PRELIMINARY
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DATE: 01/06/2022

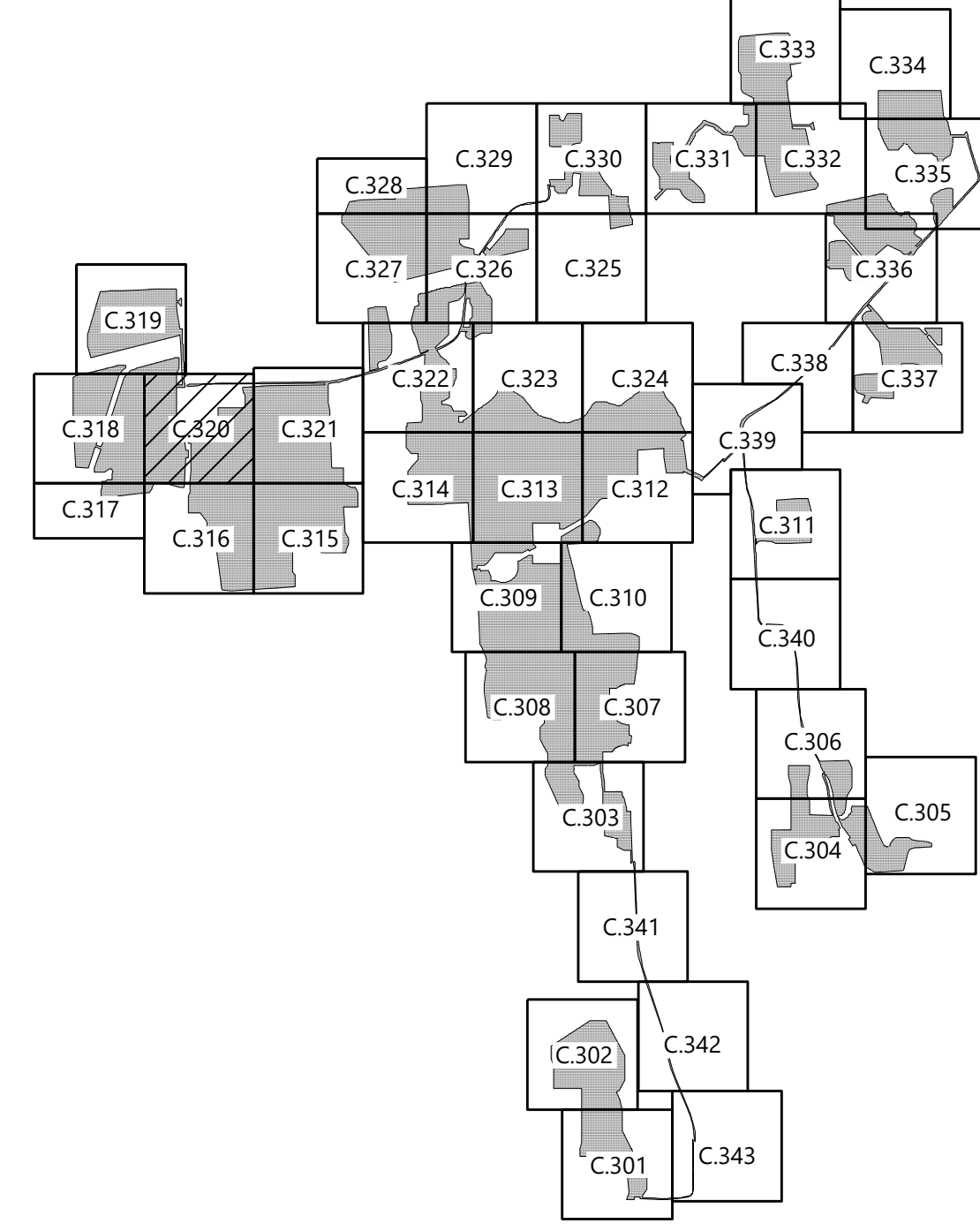
SHEET: C.319



LEGEND:

- PROPERTY LINE
- PARCEL LINE
- EX. NYSDEC/USACE WETLAND
- EX. USACE WETLAND
- EX. NONJURISDICTIONAL WETLAND
- EX. DEC MAPPED WETLAND
- EX. STREAM
- EX. EDGE OF WATER
- EX. DRAINAGE DITCH
- EX. GRAVEL ROAD CENTERLINE
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- EX. POWER POLE
- EX. OVERHEAD POWER
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- PROPOSED SWALE
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KEYMAP:



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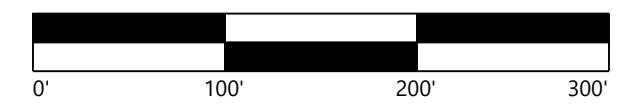
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Juno Beach, FL 33408

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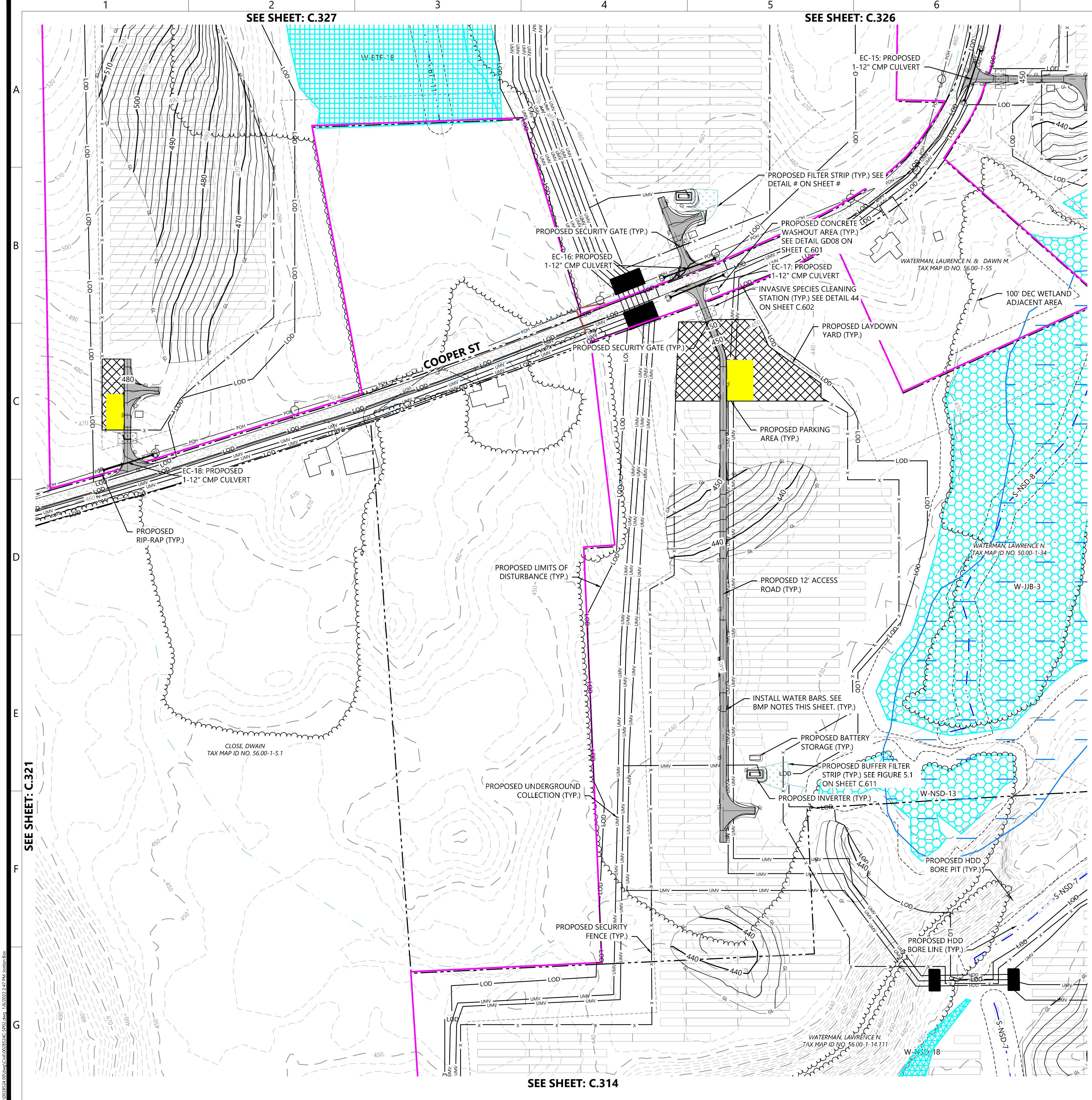
Cayuga County, New York

Civil Site Plan - 20

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DATE: 01/06/2022

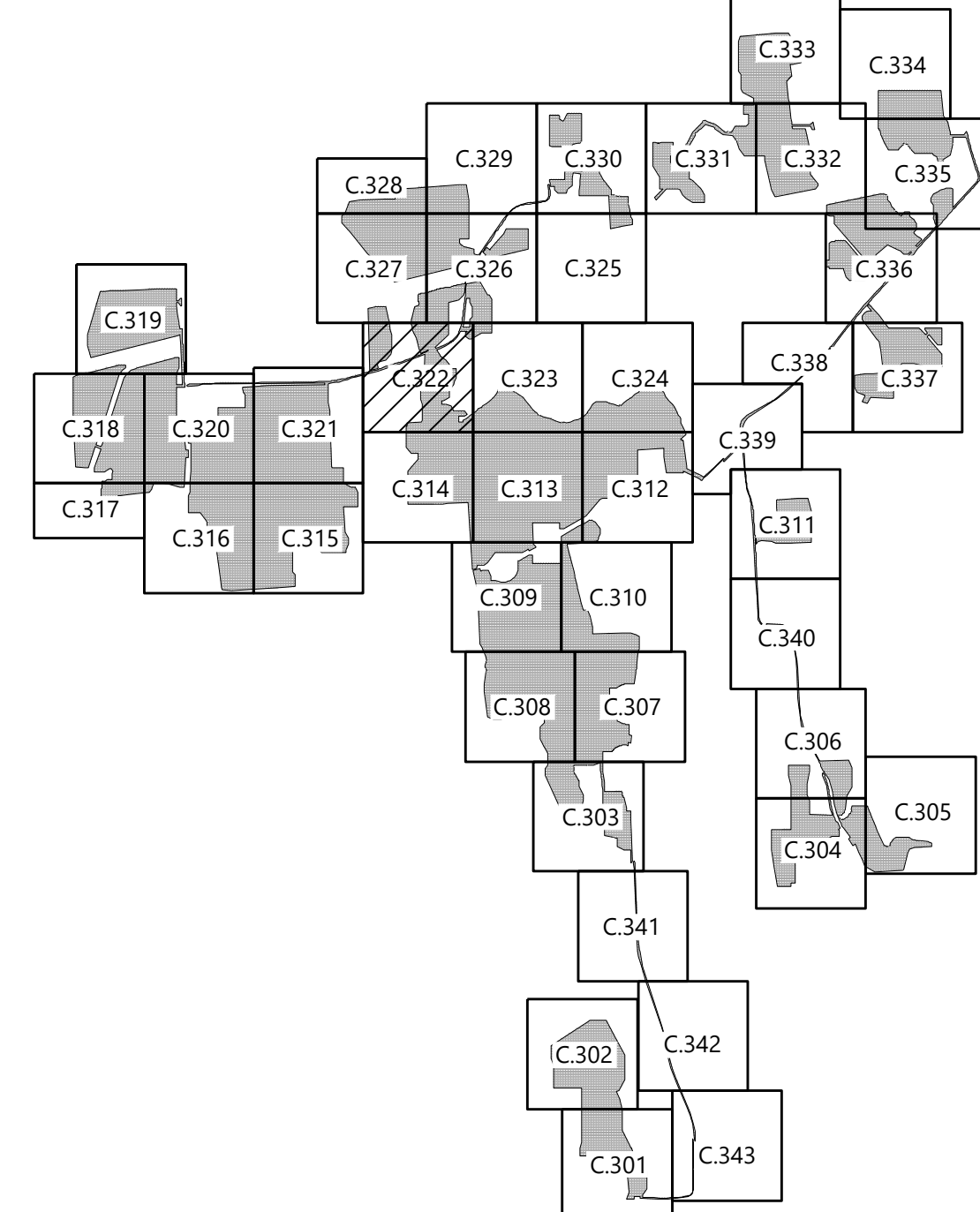
SHEET: C.320



LEGEND:

- PROPERTY LINE
- PARCEL LINE
- EX. NYSDEC/USACE WETLAND
- EX. USACE WETLAND
- EX. NONJURISDICTIONAL WETLAND
- EX. DEC MAPPED WETLAND
- EX. STREAM
- EX. EDGE OF WATER
- EX. DRAINAGE DITCH
- EX. GRAVEL ROAD CENTERLINE
- 100' DEC WETLAND ADJACENT AREA
- EX. PAVED ROAD
- EX. POWER POLE
- EX. OVERHEAD POWER
- EX. GAS LINE
- EX. FENCE
- EX. STRUCTURE
- EX. CULVERT
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- PROPOSED INDEX CONTOUR
- PROPOSED INTERVAL CONTOUR
- PROPOSED SOLAR ARRAY
- PROPOSED SETBACKS
- PROPOSED INVERTER
- PROPOSED BATTERY STORAGE
- PROPOSED ACCESS ROAD
- PROPOSED TEMPORARY ACCESS ROAD
- PROPOSED SECURITY FENCE
- PROPOSED LAYDOWN YARD
- ARCHAEOLOGICAL AVOIDANCE AREA
- LIMIT OF DISTURBANCE
- PROPOSED GRADING LIMITS
- PROPOSED PARKING AREA
- EX. SOILS
- PROPOSED DRAINAGE CROSSING
- PROPOSED CULVERT
- PROPOSED RIP-RAP
- PROPOSED BASIN
- PROPOSED DRAIN TILE
- PROPOSED UNDERGROUND COLLECTION
- PROPOSED HORIZONTAL DIRECTIONAL DRILLING
- PROPOSED HDD BORE PIT
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- PROPOSED DRY SWALE
- PROPOSED LEVEL SPREADER
- PROPOSED BUFFER FILTER STRIP
- PROPOSED CONCRETE WASHOUT AREA
- PROPOSED INVASIVE SPECIES CLEANING STATION
- PROPOSED SWALE
- PROPOSED STORMWATER DITCH

KEYMAP:



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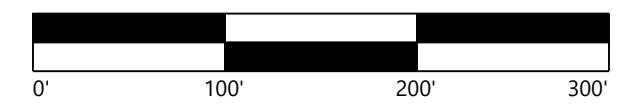
PREPARED FOR:



700 Universe Boulevard
Juno Beach, FL 33408

REVISIONS:

#	DATE	COMMENT
A	01/06/2022	ISSUED FOR PERMIT



Garnet Energy Center

Cayuga County, New York

Civil Site Plan - 22

PRELIMINARY
NOT FOR CONSTRUCTION

DATE: 01/06/2022

SHEET: C.322