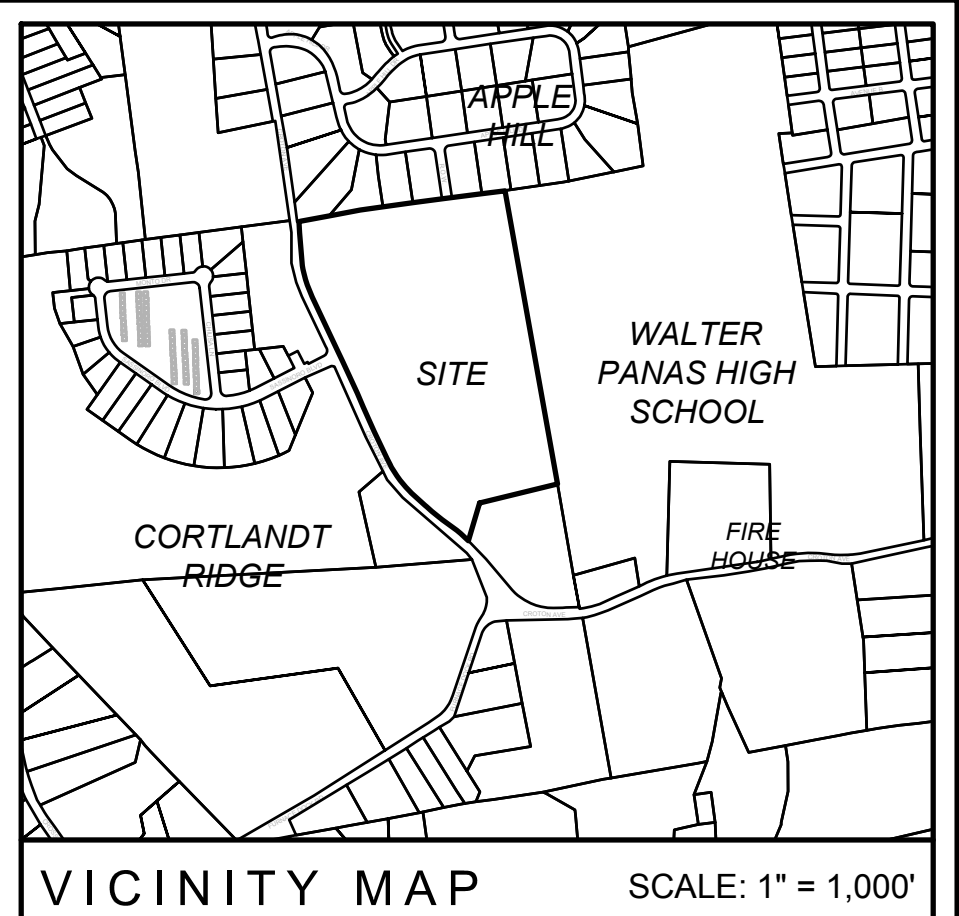


SITE DEVELOPMENT PLAN FOR CROTON SOLAR, LLC

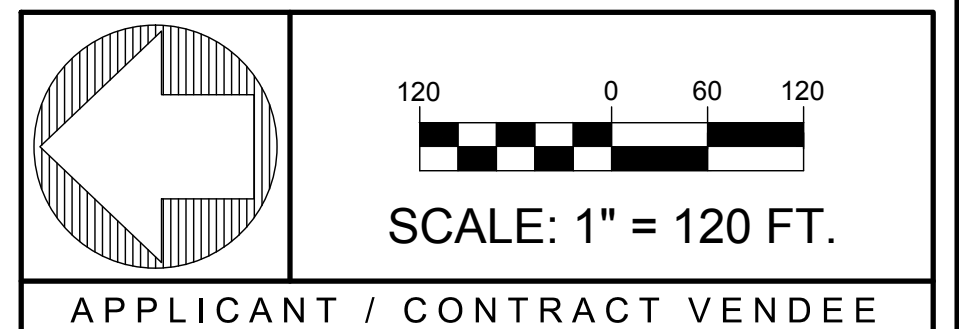


EXISTING CONDITION
SCALE: 1 IN. = 120 FT.



PROPOSED CONDITION
SCALE: 1 IN. = 120 FT.

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APPLICANT / CONTRACT VENUEE

CROTON SOLAR, LLC
3280 PEACHTREE ROAD NE, 7TH FLOOR
ATLANTA, GA 30305

PROPERTY OWNER

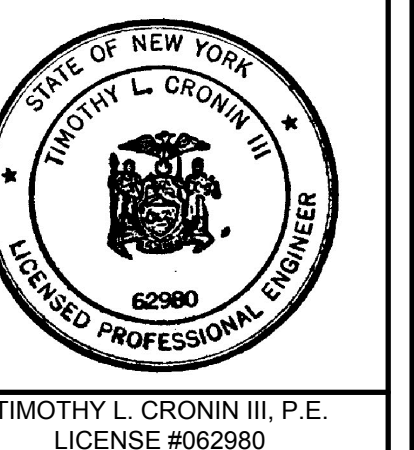
CROTON REALTY & DEVELOPMENT, INC.
200 CROTON AVENUE
CORTLANDT MANOR, NY 10567

* UNDER NEW YORK STATE EDUCATIONAL LAW ARTICLE 145, SECTION 7209 (2), IT IS UNLAWFUL FOR ANY PERSON TO ALTER ANY ITEM ON THIS DRAWING, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. IF ANY ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION. © COPYRIGHT 2019 BY CRONIN ENGINEERING, P.E., P.C. ALL RIGHTS RESERVED.

REVISIONS

#	REASON	DATE

MUNICIPAL TAX IDENTIFICATION:	
SECTION:	34.14
BLOCK:	2
LOT:	28
SUBLOT:	
DRAWN BY:	KCSJUCAKAA
CHECKED BY:	KCS
PROJECT:	DIMENSION
DATE:	JULY 17, 2019
JOB #:	180605



TOWN OF CORTLANDT WESTCHESTER COUNTY, NEW YORK

GENERAL NOTES

- PARCEL TAX MAP DESIGNATION: SECTION 34.14, BLOCK 2, LOTS 28
- TOTAL AREA OF PARCEL = 435.901 ACRES.
- SURVEY AND TOPOGRAPHIC INFORMATION SHOWN HEREON WAS TAKEN FROM A MAP PREPARED BY SCOTT T. CHAMBERLAIN, L.S. ENTITLED "TOPOGRAPHIC SURVEY OF PROPERTY PREPARED FOR CROTON REALTY & DEVELOPMENT, INC." DATED DECEMBER 6, 2010 & UPDATED FEBRUARY 7, 2011.
- WETLAND INFORMATION SHOWN HEREON WAS SURVEY LOCATED BY SCOTT T. CHAMBERLAIN AND FLAGGED BY PAUL JAEHNIG ON DECEMBER 3, 2010.
- LOCATIONS OF STRUCTURES OUTSIDE OF PROPERTY LIMITS ARE BASED ON BOTH SURVEY INFORMATION AND AVAILABLE INFORMATION FROM THE WESTCHESTER COUNTY GEOGRAPHIC INFORMATION SYSTEM.
- REFER TO A TREE REPORT PREPARED BY BARTLETT TREE EXPERTS ON OCTOBER 31, 2011 FOR ADDITIONAL INFORMATION PERTAINING TO THE EXISTING TREES ON SITE.

LIST OF DRAWINGS				
SHEET #	SHEET X OF Y	TITLE	ISSUE DATE	LAST REVISED
CS-0.1	1 OF 7	COVER SHEET	JULY 17, 2019	—
EC-1.1	2 OF 7	EXISTING CONDITIONS	JULY 17, 2019	—
L-2.1	3 OF 7	LAYOUT AND ZONING COMPLIANCE PLAN	JULY 17, 2019	—
TRP-3.1	4 OF 7	TREE REMOVAL, LANDSCAPING, AND WETLAND MITIGATION PLAN	JULY 17, 2019	—
SP-4.1	5 OF 7	SITE PLAN	JULY 17, 2019	—
ESC-5.1	6 OF 7	EROSION AND SEDIMENT CONTROL PLAN	JULY 17, 2019	—
CD-6.1	7 OF 7	CONSTRUCTION DETAILS	JULY 17, 2019	—

THE DEPARTMENT HEAD SIGNATURES INDICATE THAT THIS DRAWING OR SET OF DRAWINGS IS CONSISTENT WITH THE PLANNING BOARD RESOLUTION OF APPROVAL AND WITH THE GENERAL REQUIREMENTS AND POLICIES OF THE TOWN OF CORTLANDT FOR WHICH THE DEPARTMENT HEAD IS RESPONSIBLE. THE PROJECT DESIGN INCLUDING ALL PUBLIC HEALTH AND SAFETY CONSIDERATIONS ARE SOLELY THE RESPONSIBILITY OF THE DESIGN PROFESSIONAL WHO HAS SIGNED AND SEALED THE DRAWINGS.

REVIEWED BY THE DEPARTMENT OF ENVIRONMENTAL SERVICES

REVIEWED BY THE DEPARTMENT OF TECHNICAL SERVICES

APPROVED BY RESOLUTION NO. _____ OF THE PLANNING BOARD OF THE TOWN OF CORTLANDT, NEW YORK ON THE _____ DAY OF _____, 20____, SUBJECT TO ALL REQUIREMENTS AND CONDITIONS OF SAID RESOLUTION. ANY CHANGE, ERASURE, MODIFICATION OR REVISION IN THIS PLAN, OR SITE DEVELOPMENT PLAN, AFTER THE ABOVE DATE, SHALL VOID THIS APPROVAL.

SIGNED THIS _____ DAY OF _____, 20____, BY _____ CHAIRPERSON OF THE PLANNING BOARD

CRONIN ENGINEERING
PROFESSIONAL ENGINEERING & CONSULTING
(914) 736-3664

39 ARLO LANE
CORTLANDT, NEW YORK 10567

COVER SHEET

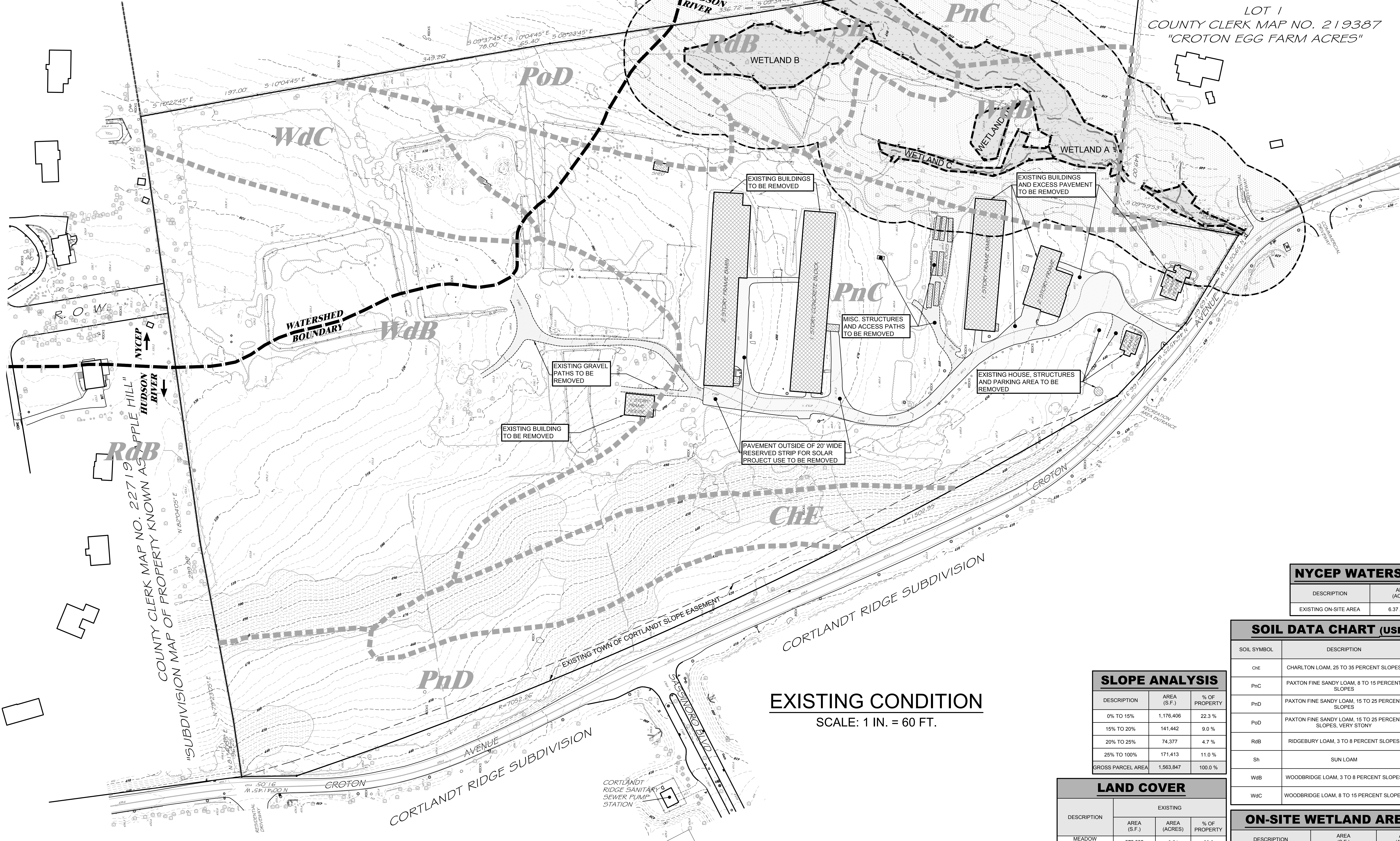
SITE DEVELOPMENT FOR CROTON SOLAR, LLC

LOCATION:
200 CROTON AVENUE
TOWN OF CORTLANDT, NEW YORK 10567

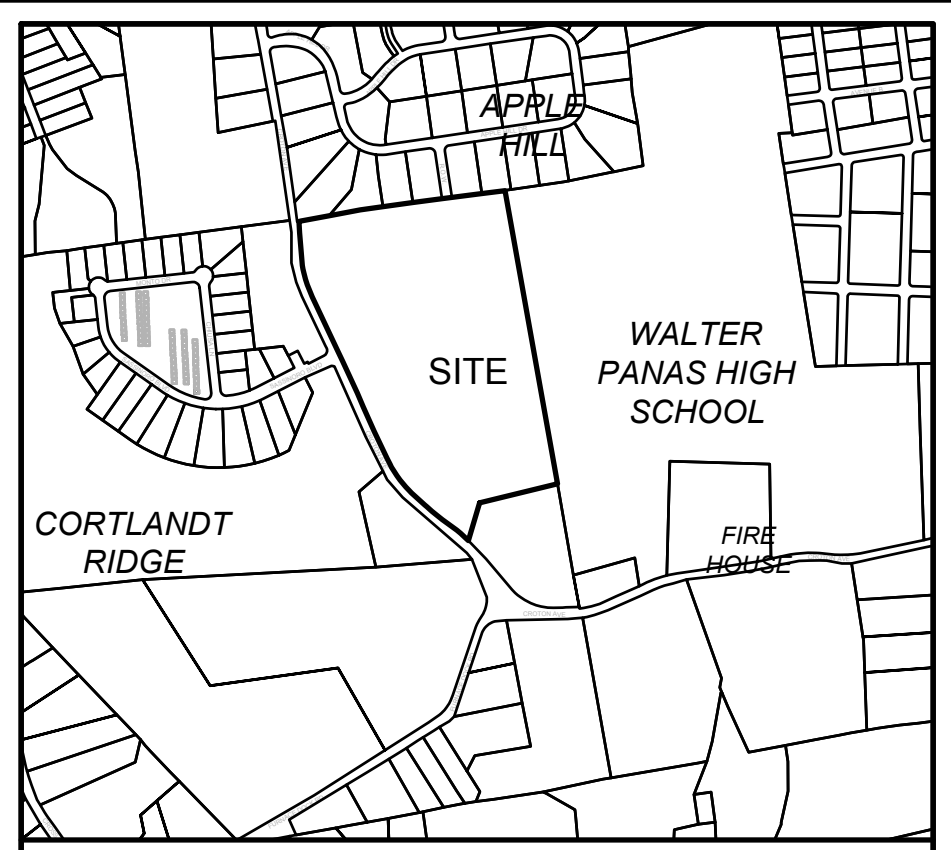
SHEET 1 OF 7 | CS-0.1

GENERAL NOTES

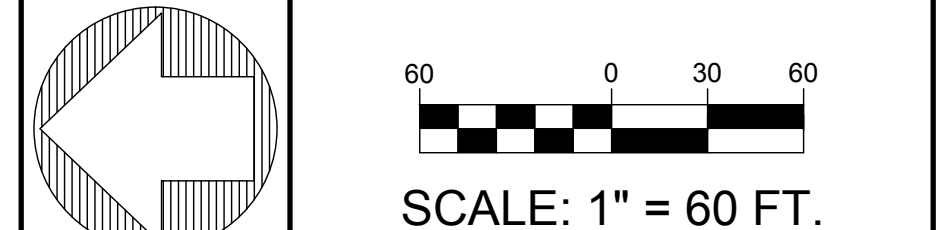
1. PARCEL TAX MAP DESIGNATION: SECTION 34.14, BLOCK 2, LOTS 28
2. TOTAL AREA OF PARCEL = 35.901 ACRES.
3. SURVEY AND TOPOGRAPHIC INFORMATION SHOWN HEREON WAS TAKEN FROM A MAP PREPARED BY SCOTT T. CHAMBERLAIN, L.S. ENTITLED "TOPOGRAPHIC SURVEY OF PROPERTY PREPARED FOR CROTON REALTY & DEVELOPMENT, INC." DATED DECEMBER 6, 2010 & UPDATED FEBRUARY 7, 2011.
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6. REFER TO A TREE REPORT PREPARED BY BARTLETT TREE EXPERTS ON OCTOBER 31, 2011 FOR ADDITIONAL INFORMATION PERTAINING TO THE EXISTING TREES ON SITE.



EXISTING CONDITION
SCALE: 1 IN. = 60 FT.



VICINITY MAP SCALE: 1" = 1,000'



SCALE: 1" = 60 FT.

APPLICANT/CONTRACT VENUEE

CROTON SOLAR, LLC
3280 PEACHTREE ROAD NE, 7TH FLOOR
ATLANTA, GA 30305

PROPERTY OWNER

CROTON REALTY & DEVELOPMENT, INC.
200 CROTON AVENUE
CORTLANDT MANOR, NY 10567

* UNDER NEW YORK STATE EDUCATIONAL LAW ARTICLE 145, SECTION 7209 (2), IT IS UNLAWFUL FOR ANY PERSON TO ALTER ANY ITEM ON THIS DRAWING, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. IF ANY ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION. © COPYRIGHT 2010 BY CRONIN ENGINEERING, P.E., P.C. ALL RIGHTS RESERVED.

REVISIONS

#	REASON	DATE

NYCEP WATERSHED

DESCRIPTION	AREA (ACRES)
EXISTING ON-SITE AREA	6.37 ACRES

SOIL DATA CHART (USDA)

SOIL SYMBOL	DESCRIPTION	% OF SITE
ChE	CHARLTON LOAM, 25 TO 35 PERCENT SLOPES	6.0%
PnC	PAXTON FINE SANDY LOAM, 8 TO 15 PERCENT SLOPES	34.4%
PnD	PAXTON FINE SANDY LOAM, 15 TO 25 PERCENT SLOPES	8.0%
PnO	PAXTON FINE SANDY LOAM, 15 TO 25 PERCENT SLOPES, VERY STONY	5.0%
RdB	RIDGEBURY LOAM, 3 TO 8 PERCENT SLOPES	3.3%
Sh	SUN LOAM	1.5%
WdB	WOODBIDGE LOAM, 3 TO 8 PERCENT SLOPES	35.7%
WdC	WOODBIDGE LOAM, 8 TO 15 PERCENT SLOPES	6.1%

SLOPE ANALYSIS

DESCRIPTION	AREA (S.F.)	% OF PROPERTY
0% TO 15%	1,176,406	22.3 %
15% TO 20%	141,442	9.0 %
20% TO 25%	74,377	4.7 %
25% TO 100%	171,413	11.0 %
GROSS PARCEL AREA	1,563,847	100.0 %

LAND COVER

DESCRIPTION	EXISTING		
	AREA (S.F.)	AREA (ACRES)	% OF PROPERTY
MEADOW (BRUSHLAND)	372,002	8.54	23.8
FORESTED	807,602	18.54	51.6
FRESHWATER WETLAND	74,052	1.70	4.7
UNVEGETATED	44,371	1.02	2.8
ROADS, BUILDINGS & OTHER IMPERVIOUS	104,544	2.40	6.7
LAWN AREA	161,276	3.70	10.3
GROSS PARCEL AREA	1,563,847	35.9	100.0

ON-SITE WETLAND AREAS

DESCRIPTION	AREA (S.F.)	AREA (ACRES)
WETLAND A	39,293	0.90
WETLAND B	25,027	0.57
WETLAND C	5,730	0.13
WETLAND D	4,002	0.09
TOTAL	74,052	1.70
WETLAND BUFFER AREA	199,505	4.58

MUNICIPAL TAX IDENTIFICATION:
SECTION: 34.14
BLOCK: 2
LOT: 28
SUBLOT: ---
DRAWN BY: KCSJCAKAA
CHECKED: KCS
PROJECT: DIMENSION
DATE: JULY 17, 2019
JOB #: 180605

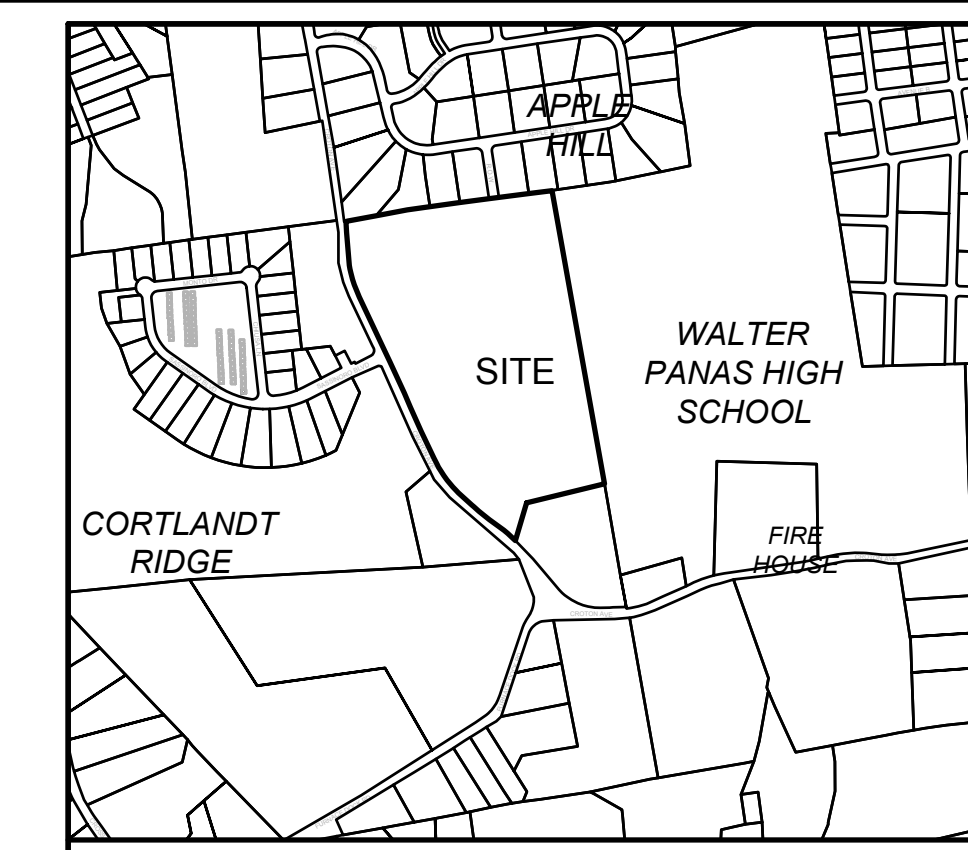
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(914) 736-3664

39 ARLO LANE
CORTLANDT, NEW YORK 10567

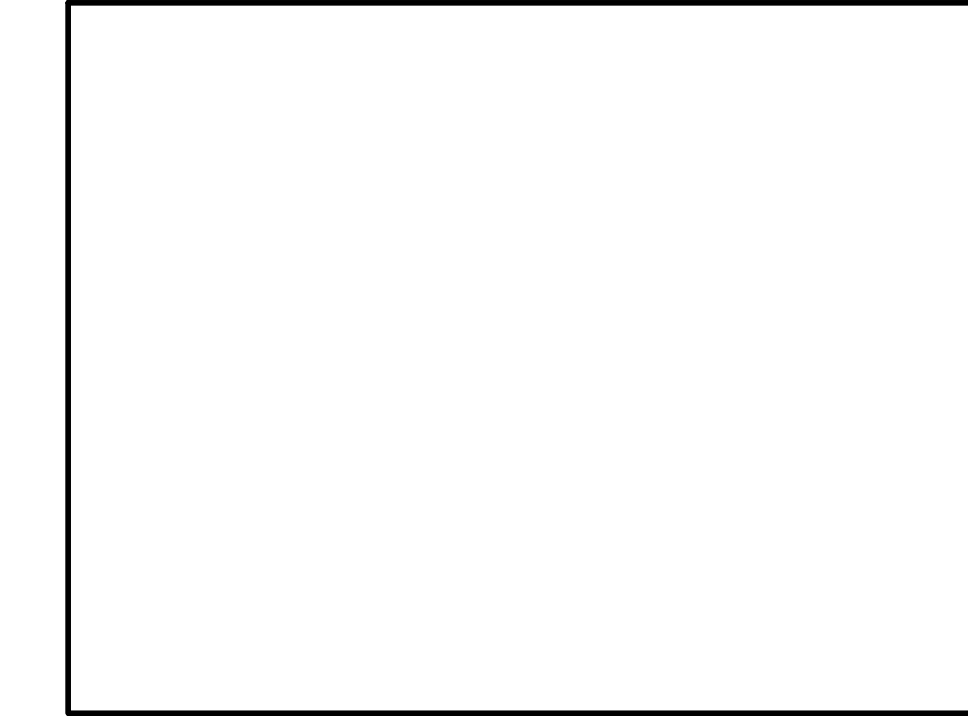
EXISTING CONDITIONS

SITE DEVELOPMENT FOR CROTON SOLAR, LLC

LOCATION:
200 CROTON AVENUE
TOWN OF CORTLANDT, NEW YORK 10567



VICINITY MAP SCALE: 1" = 1,000'



SCALE: 1" = 60 FT.

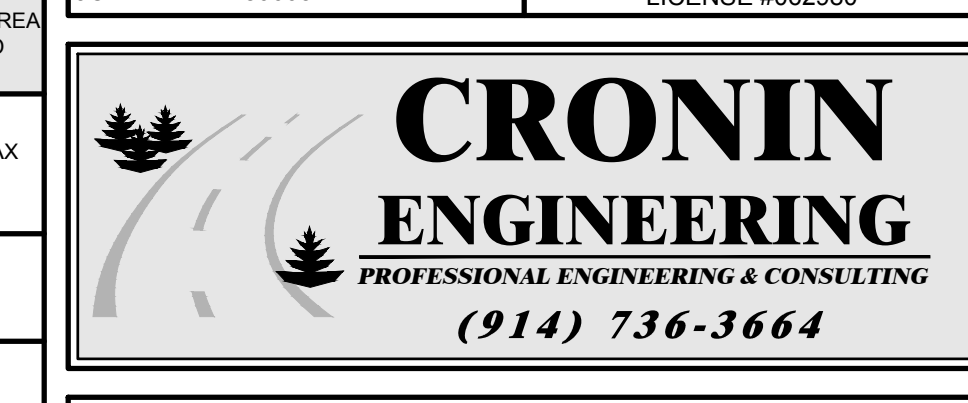
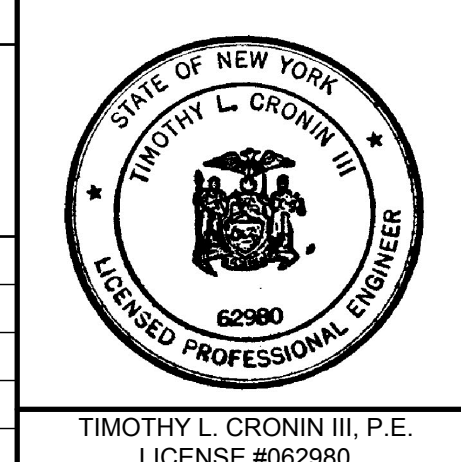
APPLICANT/CONTRACT VENUEE
CROTON SOLAR, LLC
 3280 PEACHTREE ROAD NE, 7TH FLOOR
 ATLANTA, GA 30305

PROPERTY OWNER
CROTON REALTY & DEVELOPMENT, INC.
 200 CROTON AVENUE
 CORTLANDT MANOR, NY 10567

REVISIONS

#	REASON	DATE

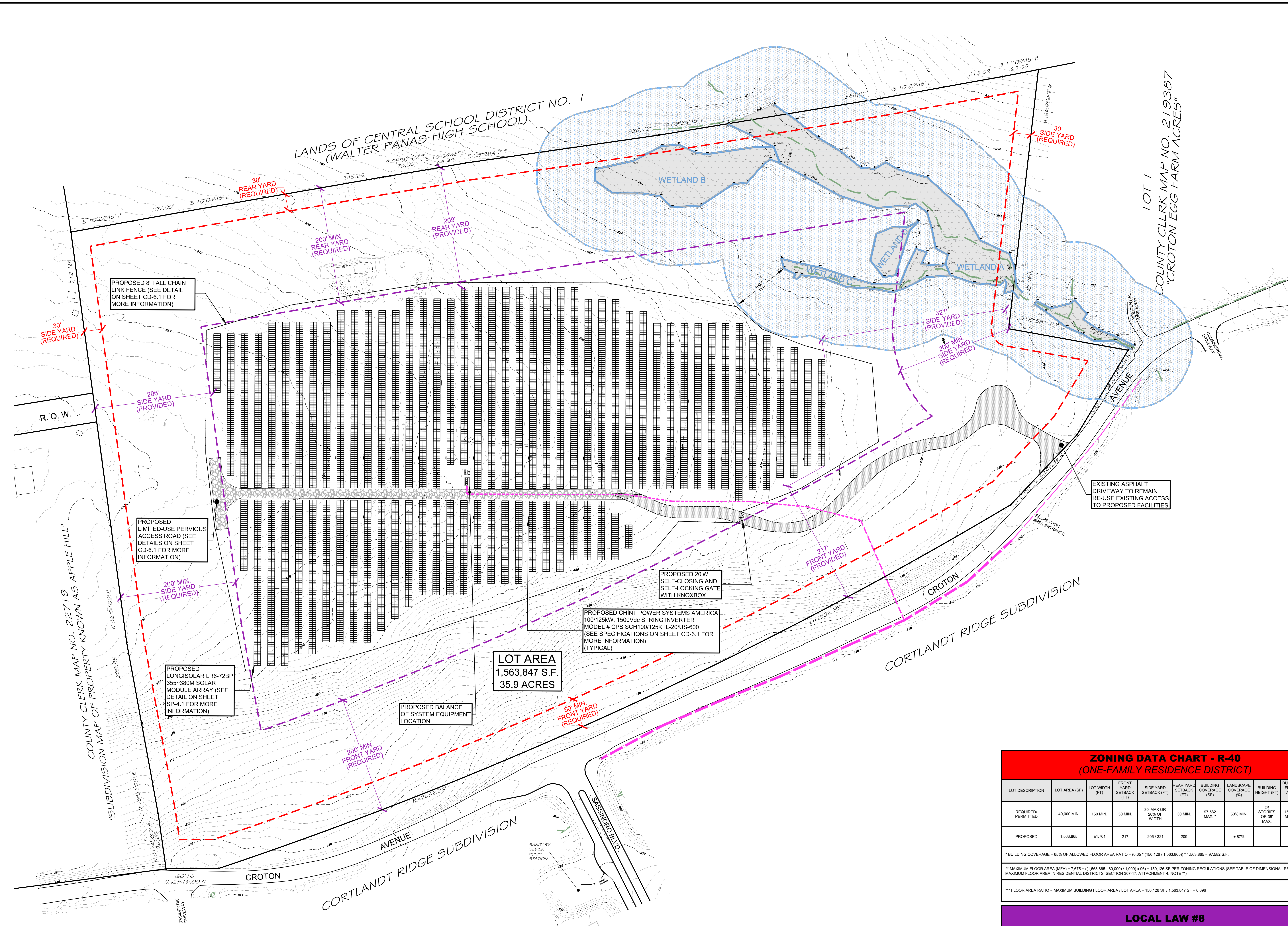
MUNICIPAL TAX IDENTIFICATION:
 SECTION: 34.14
 BLOCK: 2
 LOT: 28
 SUBLOT: ---
 DRAWN BY: KCSJCAKAA
 CHECKED BY: KCS
 PROJECT: DIMENSION
 DATE: JULY 17, 2019
 JOB #: 180605



39 ARLO LAKE
 CORTLANDT, NEW YORK 10567

LAYOUT AND ZONING
 COMPLIANCE PLAN
 SITE DEVELOPMENT
 FOR
CROTON SOLAR, LLC

LOCATION:
 200 CROTON AVENUE
 TOWN OF CORTLANDT, NEW YORK 10567



LOT AREA
 1,563,847 S.F.
 35.9 ACRES

LAYOUT AND ZONING COMPLIANCE PLAN
 SCALE: 1 IN. = 60 FT.

ZONING DATA CHART - R-40
 (ONE-FAMILY RESIDENCE DISTRICT)

LOT DESCRIPTION	LOT AREA (SF)	LOT WIDTH (FT)	FRONT YARD SETBACK (FT)	SIDE YARD SETBACK (FT)	REAR YARD SETBACK (FT)	BUILDING COVERAGE (SF)	LANDSCAPE COVERAGE (%)	BUILDING HEIGHT (FT)	FLOOR AREA (SF)	FLOOR AREA RATIO
REQUIRED/ PERMITTED	40,000 MIN.	150 MIN.	50 MIN.	30' MAX OR 20% OF WIDTH	30 MIN.	97,582 MAX. *	50% MIN.	25 STORES OR 35' MAX.	150,128 MAX. **	388 MAX. ***
PROPOSED	1,563,865	1,701	217	206 / 321	209	---	± 87%	---	---	---

* BUILDING COVERAGE = 65% OF ALLOWED FLOOR AREA RATIO = (0.65 * (150,128 / 1,563,865)) * 1,563,865 = 97,582 S.F.
 ** MAXIMUM FLOOR AREA (MFA) = 7.675 * ((1,563,865 - 80,000) / 1,000) * 96) + 150,128 SF PER ZONING REGULATIONS (SEE TABLE OF DIMENSIONAL REGULATIONS, MAXIMUM FLOOR AREA IN RESIDENTIAL DISTRICTS, SECTION 307-17, ATTACHMENT 4, NOTE **)
 *** FLOOR AREA RATIO = MAXIMUM BUILDING FLOOR AREA / LOT AREA = 150,128 SF / 1,563,847 SF = 0.096

LOCAL LAW #8
 REGULATION OF SOLAR ENERGY SYSTEMS WITHIN THE TOWN OF CORTLANDT

LOT DESCRIPTION	LOT SIZE (SF / AC)	FRONT YARD SETBACK (FT)	SIDE YARD SETBACK (FT)	REAR YARD SETBACK (FT)	STRUCTURE HEIGHT (FT)	LANDSCAPE COVERAGE (%)	FENCE HEIGHT (FT)
MINIMUM REQUIRED	435,600 / 10	200	200	200	25' / 2 STORES	50	8
PROPOSED	1,563,865 / 35.9	217	206 / 321	209	± 7.5	± 87%	8

LIMIT OF DISTURBANCE		
DESCRIPTION	AREA (S.F.)	AREA (ACRES)
WITHIN WETLAND BUFFER	6,054	0.14
WITHIN WETLAND	0	0.00
WITHIN SLOPE < 15%	185,063	4.25
WITHIN STEEP SLOPE > 15%	18,469	0.42
TOTAL	209,586	4.81

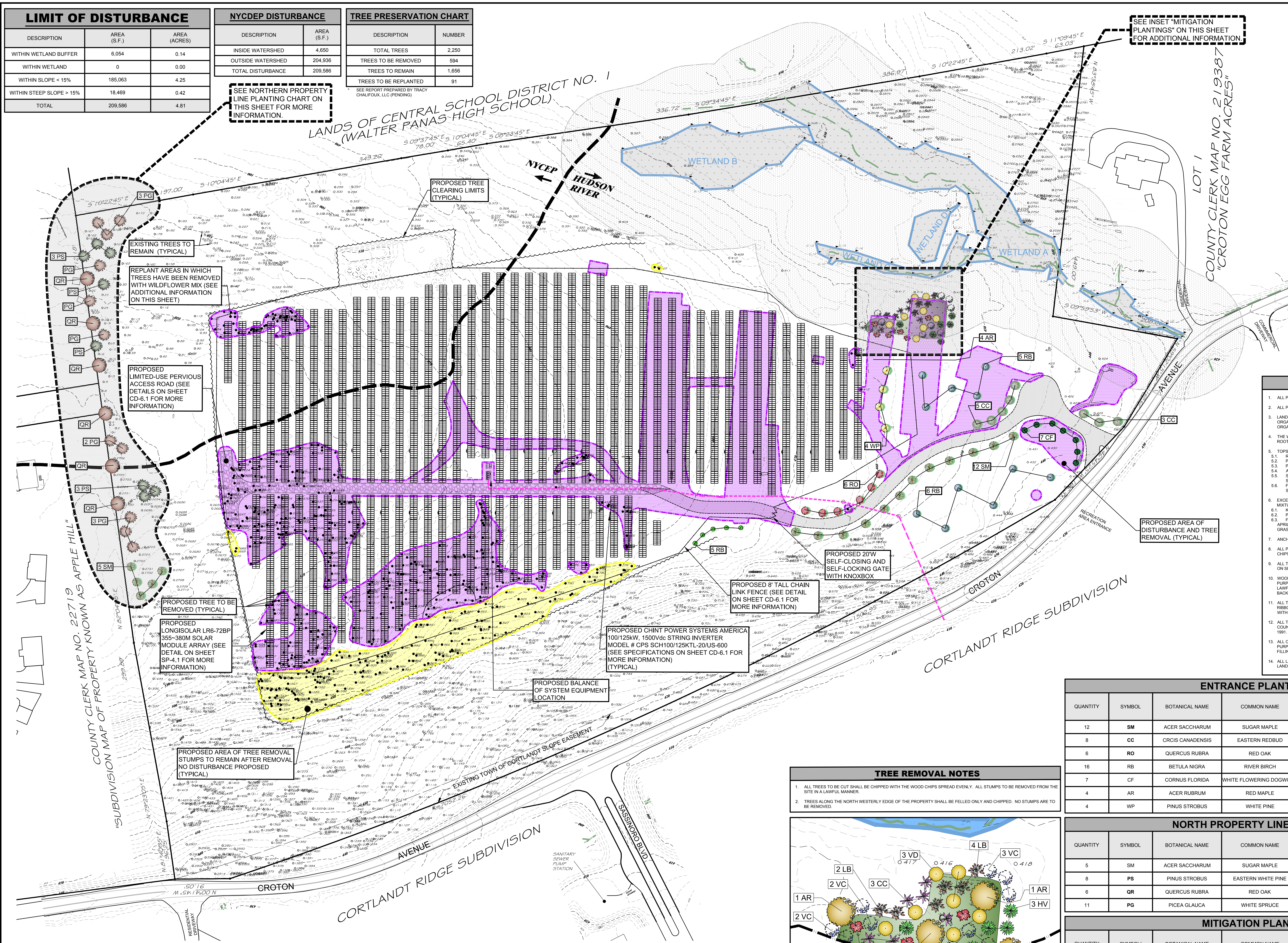
NYCDEP DISTURBANCE	
DESCRIPTION	AREA (S.F.)
INSIDE WATERSHED	4,650
OUTSIDE WATERSHED	204,936
TOTAL DISTURBANCE	209,586

TREE PRESERVATION CHART	
DESCRIPTION	NUMBER
TOTAL TREES	2,250
TREES TO BE REMOVED	594
TREES TO REMAIN	1,656
TREES TO BE REPLANTED	91

SEE NORTHERN PROPERTY LINE PLANTING CHART ON THIS SHEET FOR MORE INFORMATION

SEE REPORT PREPARED BY TRACY CHAILOUX, LLC (PENDING)

SEE INSET "MITIGATION PLANTINGS" ON THIS SHEET FOR ADDITIONAL INFORMATION



LANDSCAPING NOTES

1. ALL PLANTINGS MUST TAKE PLACE IN THE ACCEPTED FALL OR SPRING PLANTING SEASONS.
2. ALL PLANTS MUST BE HEALTHY AND REPRESENTATIVE OF THE FORM OF THE SPECIES.
3. LANDSCAPE CONTRACTOR TO ENSURE SUITABLE SOIL CONDITIONS. IF NECESSARY, PROVIDE ORGANIC MATERIAL OR COMPOST, NUTRIENT BARK IN THE PROPORTION OF 3 PARTS SOIL, 1 PART OF ORGANIC MATTER.
4. THE WATERING BASIN FOR TREES SHALL BE AT LEAST 10 IN DIAMETER OR TWICE THE SIZE OF THE ROOTBALL.
5. TOPSOIL SHALL BE STABILIZED AS FOLLOWS:
 - 5.1 REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS.
 - 5.2 PERFORM ALL CULTURAL OPERATIONS PARALLEL TO THE CONTOURS OF THE SLOPE.
 - 5.3 PLACE A MIN OF 4" OF TOP SOIL.
 - 5.4 APPLY LIME AT A RATE OF 2 TONS GROUND LIMESTONE PER ACRE (100 LBS/1000 SQ FT)
 - 5.5 SPRING SEEDING: APPLY FERTILIZER AT A RATE OF 300 LBS OF 5-10-10 MIX PER ACRE (7 LBS/1000 SQ FT) WORKED INTO THE SOIL BEFORE SEEDING.
 - 5.6 FALL SEEDING: APPLY FERTILIZER AT A RATE OF 600 LBS OF 5-10-10 MIX PER ACRE (14 LBS/1000 SQ FT) WORKED INTO THE SOIL BEFORE SEEDING.
6. EXCEPT WHEN HYDRO-SEEDING, SMOOTH THE SEED BED. SEED WITH THE FOLLOWING SEED MIXTURE (BY WEIGHT) OR APPROVED EQUAL:
 - 6.1 KENTUCKY BLUE GRASS 85%
 - 6.2 PERENNIAL RYE GRASS 25%
 - 6.3 FINE FESCUE 15%
7. ANCHOR AS REQUIRED ON STEEP SLOPES OR INSTALL AN EROSION CONTROL NETTING.
8. ALL PLANT BEDS AND SAUCERS SHALL BE MULCHED TO A 2" DEPTH WITH DARK BROWN PINE BARK CHIPS.
9. ALL TREE STUMPS SHALL EITHER BE REMOVED FROM THE SITE IN A LAWFUL MANNER OR GRINDED ON SITE AND USED FOR LANDSCAPING PURPOSES ONLY.
10. WOOD CHIPS SHALL BE STOCKPILED ONLY FOR USE IN LANDSCAPING, TRAILS AND DECORATIVE PURPOSES. WOOD CHIPS NOT FOR THESE PURPOSES SHALL BE REMOVED FROM THE SITE IN A LAWFUL MANNER. WOOD CHIPS AND STUMP CHIPS SHALL NOT BE USED FOR ANY FILLING OR BACKFILLING OPERATION.
11. ALL TREES DESIGNATED FOR PRESERVATION SHALL BE CLEARLY MARKED WITH A BRIGHT COLORED RIBBON OR OTHER EASILY DISCERNIBLE METHOD. TREES TO BE PROTECTED SHALL BE PROVIDED WITH FENCING OR TRUNK ARMOR AS DETAILED ON THIS PLAN.
12. ALL TREE PROTECTION METHODS SHALL CONFORM TO CHAPTER 5.190 OF THE WESTCHESTER COUNTY "BEST MANAGEMENT PRACTICES MANUAL SERIES FOR EROSION AND SEDIMENT CONTROL". 1991. THESE GUIDELINES SHALL BE IMPLEMENTED FOR ALL TREES DESIGNATED FOR PROTECTION.
13. ALL CUT LOGS SHALL BE REMOVED FROM THE SITE IN A LAWFUL MANNER OR USED FOR DECORATIVE PURPOSES ONLY. CUT LOGS SHALL NOT BE STOCKPILED FOR MORE THAN 30 DAYS NOR USED FOR FILLING OR BACKFILLING PURPOSES.
14. ALL LANDSCAPING, TREE AND SHRUB TYPES AND SIZES, SHALL BE IN ACCORDANCE WITH THE LANDSCAPING PLAN.

ENTRANCE PLANTINGS CHART

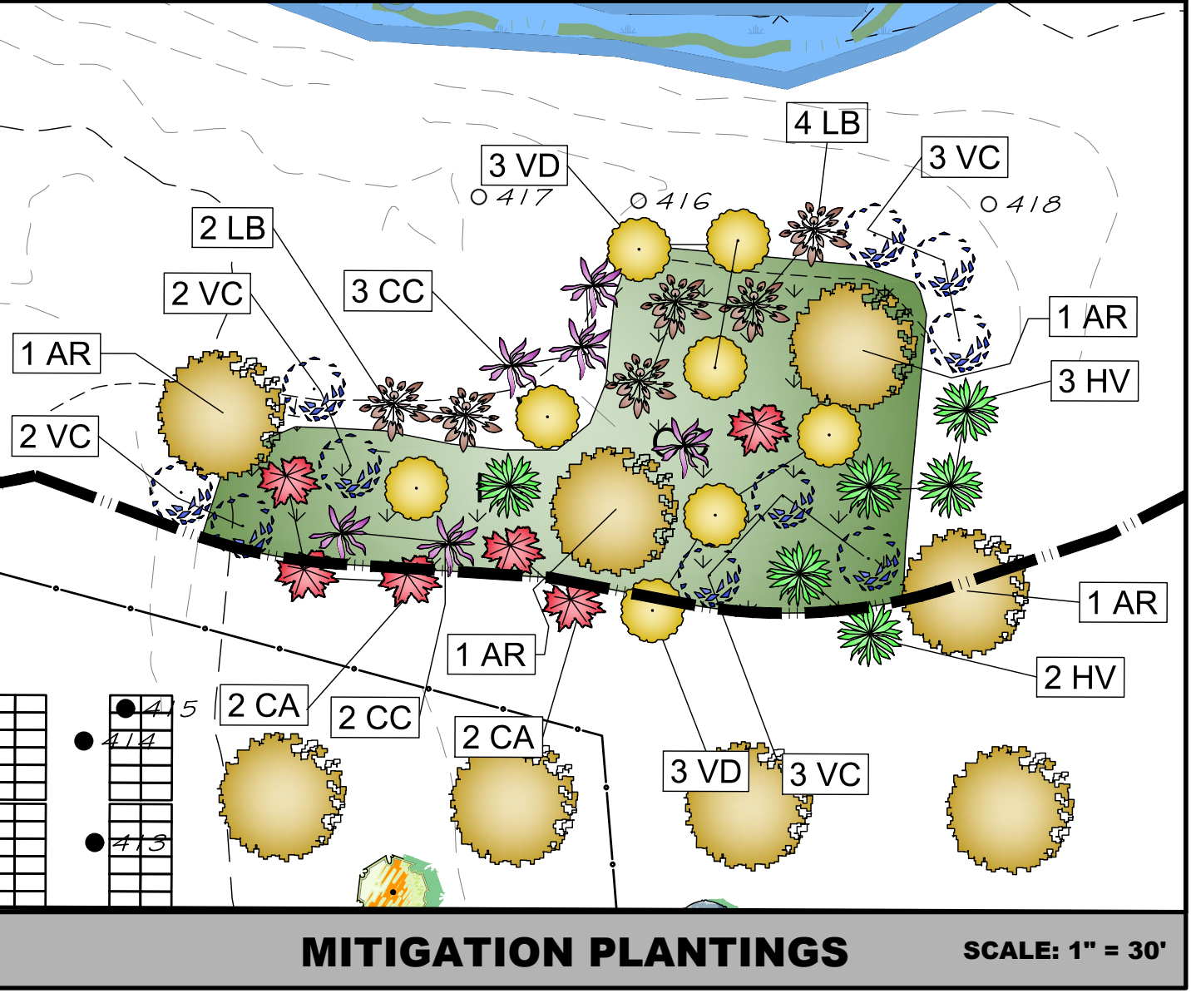
QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE			COMMENTS
				CALIPER (IN.)	HEIGHT (FT.)	VOLUME (GAL.)	
12	SM	ACER SACCHARUM	SUGAR MAPLE	2"	----	----	ENTRANCE, SEE PLAN
8	CC	CERCIS CANADENSIS	EASTERN REDBUD	2"	----	----	ENTRANCE, SEE PLAN
6	RO	QUERCUS RUBRA	RED OAK	2"	----	----	ENTRANCE, SEE PLAN
16	RB	BETULA NIGRA	RIVER BIRCH	2"	----	----	ENTRANCE, SEE PLAN
7	CF	CORNUS FLORIDA	WHITE FLOWERING DOGWOOD	2"	----	----	ENTRANCE, SEE PLAN
4	AR	ACER RUBRUM	RED MAPLE	2"	----	----	ENTRANCE, SEE PLAN
4	WP	PINUS STROBUS	WHITE PINE	2"	----	----	ENTRANCE, SEE PLAN

TREE REMOVAL NOTES

1. ALL TREES TO BE CUT SHALL BE CHIPPED WITH THE WOOD CHIPS SPREAD EVENLY. ALL STUMPS TO BE REMOVED FROM THE SITE IN A LAWFUL MANNER.
2. TREES ALONG THE NORTH-WESTERLY EDGE OF THE PROPERTY SHALL BE FELLED ONLY AND CHIPPED. NO STUMPS ARE TO BE REMOVED.

NORTH PROPERTY LINE PLANTING CHART

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE			COMMENTS
				CALIPER (IN.)	HEIGHT (FT.)	VOLUME (GAL.)	
5	SM	ACER SACCHARUM	SUGAR MAPLE	2"	----	----	NORTH PL, SEE PLAN
8	PS	PINUS STROBUS	EASTERN WHITE PINE	----	6'	----	NORTH PL, SEE PLAN
6	QR	QUERCUS RUBRA	RED OAK	2"	----	----	NORTH PL, SEE PLAN
11	PG	PICEA GLAUCA	WHITE SPRUCE	----	6'	----	NORTH PL, SEE PLAN

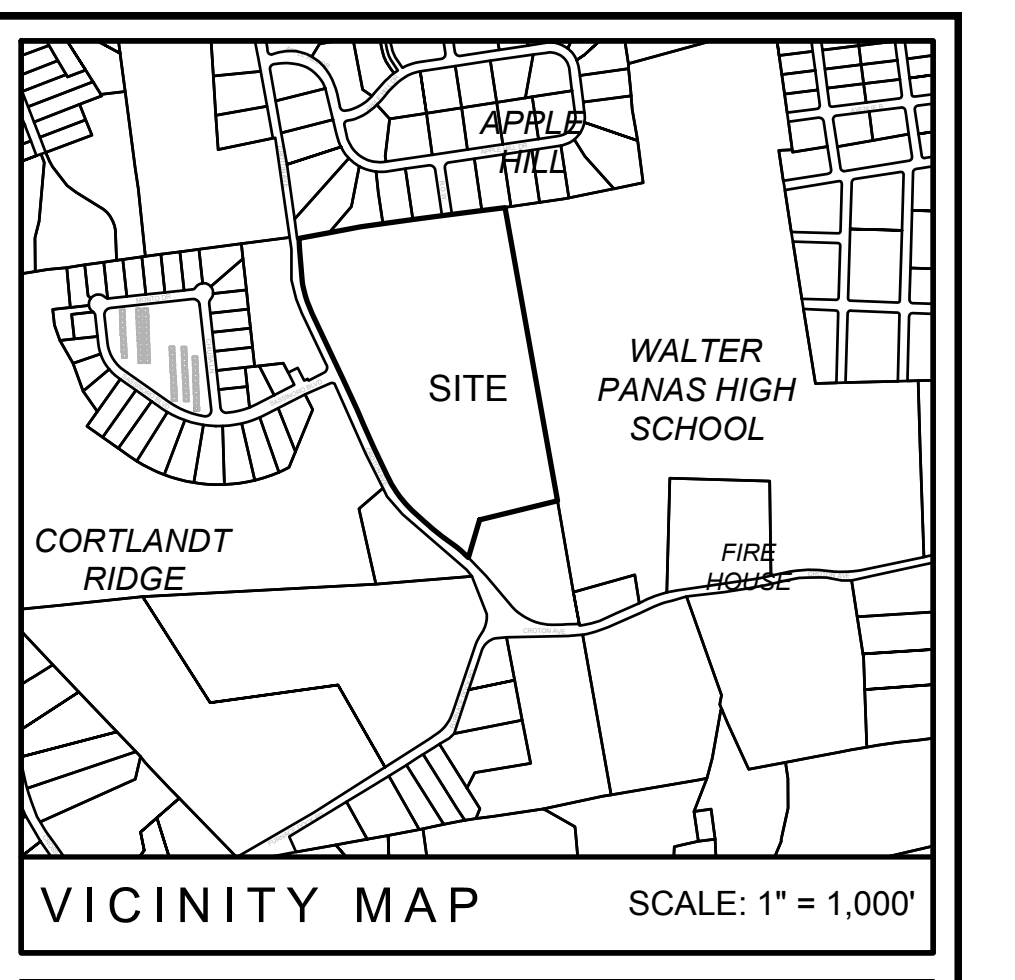


MITIGATION PLANTING CHART

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE			COMMENTS
				CALIPER (IN.)	HEIGHT (FT.)	VOLUME (GAL.)	
4	AR	ACER RUBRUM	RED MAPLE	2"	----	----	MITIGATION PLANTING
6	LB	LINDERA BENZOIN	SPICE BUSH	----	----	2 GALLON	MITIGATION PLANTING
6	HV	HAMAMELIS VIRGINIANA	WITCH HAZEL	----	----	2 GALLON	MITIGATION PLANTING
10	VC	VACCINIUM CORYMBOSUM	HIGH BUSH BLUEBERRY	----	----	2 GALLON	MITIGATION PLANTING
6	CC	CARPINUS CAROLINIANA	IRONWOOD	----	----	2 GALLON	MITIGATION PLANTING
6	VD	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	----	----	2 GALLON	MITIGATION PLANTING
6	CA	CLETHRA ALNIFOLIA	SWEET PEPPER BUSH	----	----	2 GALLON	MITIGATION PLANTING

TREE REMOVAL, LANDSCAPING, AND WETLAND MITIGATION PLAN

SCALE: 1 IN. = 60 FT.



VICINITY MAP SCALE: 1" = 1,000'

APPLICANT/CONTRACT VENUEE

CROTON SOLAR, LLC
3280 PEACHTREE ROAD NE, 7TH FLOOR
ATLANTA, GA 30305

PROPERTY OWNER

CROTON REALTY & DEVELOPMENT, INC.
200 CROTON AVENUE
CORTLANDT MANOR, NY 10567

SCALE: 1" = 60 FT.

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REVISIONS

#	REASON	DATE

MUNICIPAL TAX IDENTIFICATION:

SECTION: 34.14
BLOCK: 2
LOT: 28
SUBLOT: ---

DRAWN BY: KCS/JCA/KAA
CHECKED: KCS
PROJECT: DIMENSION
DATE: JULY 17, 2019
JOB #: 180605

TIMOTHY L. CRONIN III, P.E.
LICENSE #062980

CRONIN ENGINEERING
PROFESSIONAL ENGINEERING & CONSULTING
(914) 736-3664

39 ARLO LANE
CORTLANDT, NEW YORK 10567

TREE REMOVAL AND REPLANTING, LANDSCAPING, AND WETLAND MITIGATION PLAN

SITE DEVELOPMENT FOR CROTON SOLAR, LLC

LOCATION:
200 CROTON AVENUE
TOWN OF CORTLANDT, NEW YORK 10567

SHEET 4 OF 7 | TRP-3.1

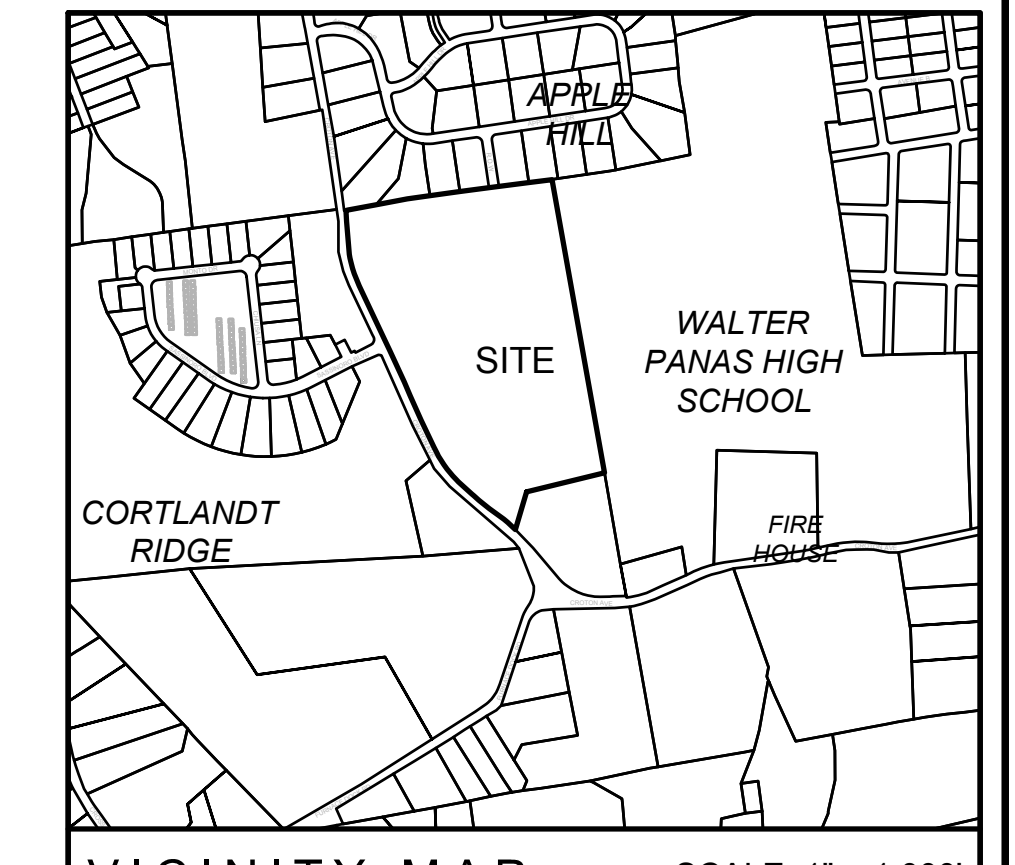
RESPONSE TO NYSDEC MEMORANDUM

SOLAR PANEL CONSTRUCTION STORMWATER PERMITTING/ SWPPP GUIDANCE
JUNE 3, 2019

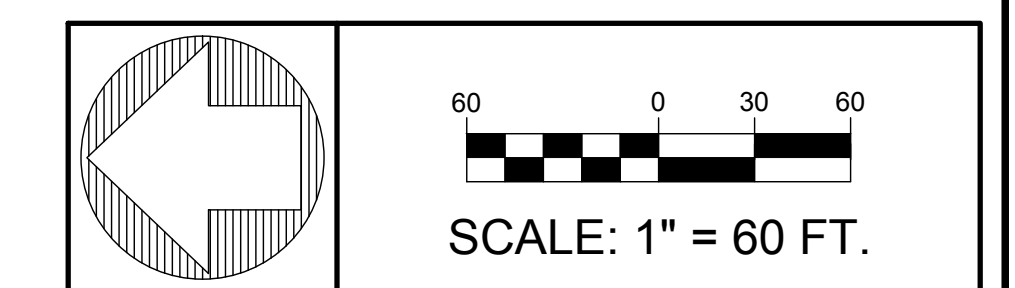
- SOLAR PANELS ARE CONSTRUCTED ON POST OR RACK SYSTEMS AND ELEVATED OFF THE GROUND SURFACE. THE SYSTEM WILL BE MOUNTED ON RACKING EQUIPMENT. THE PANEL WILL BE ELEVATED OFF THE GROUND WITH 24" OF CLEARANCE TO THE BOTTOM EDGE. SEE SAMPLE RACKING AND SOLAR FRAMING DETAILS ON THIS SHEET FOR MORE INFORMATION.
- THE PANELS ARE SPACED APART SO THAT RAIN WATER CAN FLOW OFF THE DOWN GRADIENT SIDE OF THE PANEL AND CONTINUE AS SHEET FLOW ACROSS THE GROUND SURFACE. THE SOLAR PANELS ARE ARRANGED IN ROWS. EACH ROW OF PANELS IS 11.2' APART FROM EITHER ADJACENT ROW. THIS WILL ALLOW FOR THE WATER TO FLOW OFF THE DOWN GRADIENT SIDE OF THE PANEL AND CONTINUE AS SHEET FLOW ACROSS THE GROUND SURFACE.
- FOR SOLAR PANELS CONSTRUCTED ON SLOPES, THE INDIVIDUAL ROWS OF SOLAR PANELS ARE GENERALLY INSTALLED ALONG THE CONTOUR SO RAIN WATER SHEET FLOWS DOWN SLOPE. THE SOLAR PANELS ARE ARRANGED ON THE EXISTING GRADIENT SO THAT THE RAIN WATER SHEET WILL FLOW DOWN SLOPE.
- THE GROUND SURFACE BELOW THE PANELS CONSIST OF A WELL ESTABLISHED VEGETATIVE COVER. THE CURRENT SITE CONDITION CONSISTS MOSTLY OF A WELL ESTABLISHED VEGETATIVE COVER THAT WILL REMAIN AFTER THE CONSTRUCTION OF THE SOLAR PANEL ARRAY. THE IMPERVIOUS COVERAGE OF THE SITE WILL BE REDUCED FROM AN EXISTING 2.4 ACRES TO A PROPOSED 0.85 ACRES. THE AREAS FROM WHICH AN EXISTING STRUCTURE IS PROPOSED TO BE REMOVED WILL BE SEED WITH A WILDOVER SEED MIX TO ESTABLISH A VEGETATIVE COVER.
- THE PROJECT DOES NOT INCLUDE THE CONSTRUCTION OF ANY TRADITIONAL IMPERVIOUS AREAS (I.E. BUILDINGS, SUBSTATION PADS, GRAVEL ACCESS ROADS OR PARKING AREAS, ETC.). NO TRADITIONAL IMPERVIOUS AREAS ARE PROPOSED AS A PART OF THIS PROJECT. THE IMPERVIOUS COVERAGE OF THIS SITE WILL BE REDUCED FROM AN EXISTING 2.4 ACRES TO A PROPOSED 0.85 ACRES. A LIMITED USE PERVIOUS ACCESS ROAD IS PROPOSED TO ALLOW FOR LIMITED, IRREGULAR MAINTENANCE AND REPAIR OF THE PANELS AND THE SITE IN A POST-CONSTRUCTION SETTING. THIS LIMITED USE PERVIOUS ACCESS ROAD IS TO CONNECT TO THE EXISTING ASPHALT DRIVEWAY TO REMAIN. SEE DETAILS ON THIS SHEET FOR ADDITIONAL INFORMATION.
- CONSTRUCTION OF THE SOLAR PANELS WILL NOT ALTER THE HYDROLOGY FROM PRE- TO POST-DEVELOPMENT CONDITIONS. THE PROJECT WILL PROVIDE THE PROPER DISCONNECTION BETWEEN PANELS AND, SINCE THERE IS A REDUCTION IN IMPERVIOUS AREAS FROM AN EXISTING 2.4 ACRES TO A PROPOSED 0.85 ACRES, THERE IS AN ANTICIPATED REDUCTION IN THE PEAK RATE OF RUNOFF. THEREFORE, THERE IS NO IMPACT TO THE HYDROLOGY OF THE SITE.

LANDS OF CENTRAL SCHOOL DISTRICT NO. 1
(WALTER PANAS HIGH SCHOOL)

LOT 1
COUNTY CLERK MAP NO. 219387
"CROTON EGG FARM ACRES"



VICINITY MAP SCALE: 1" = 1,000'



SCALE: 1" = 60 FT.

APPLICANT/CONTRACT VENUEE
CROTON SOLAR, LLC
3280 PEACHTREE ROAD NE, 7TH FLOOR
ATLANTA, GA 30305

PROPERTY OWNER
CROTON REALTY & DEVELOPMENT, INC.
200 CROTON AVENUE
CORTLANDT MANOR, NY 10567

EARTH MOVEMENT

DESCRIPTION	VOLUME (CU. YDS.)
CUT	0
FILL	0
NET FILL	0

NO EARTH MOVEMENT IS PROPOSED AS PART OF THE LIMITED USE PERVIOUS ACCESS ROAD INSTALLATION OR THE SOLAR ARRAY INSTALLATION.
NO RE-GRADING OF THE EXISTING TOPOGRAPHY IS PROPOSED AS PART OF THE LIMITED USE PERVIOUS ACCESS ROAD INSTALLATION OR THE SOLAR ARRAY INSTALLATION.

REVISIONS

#	REASON	DATE

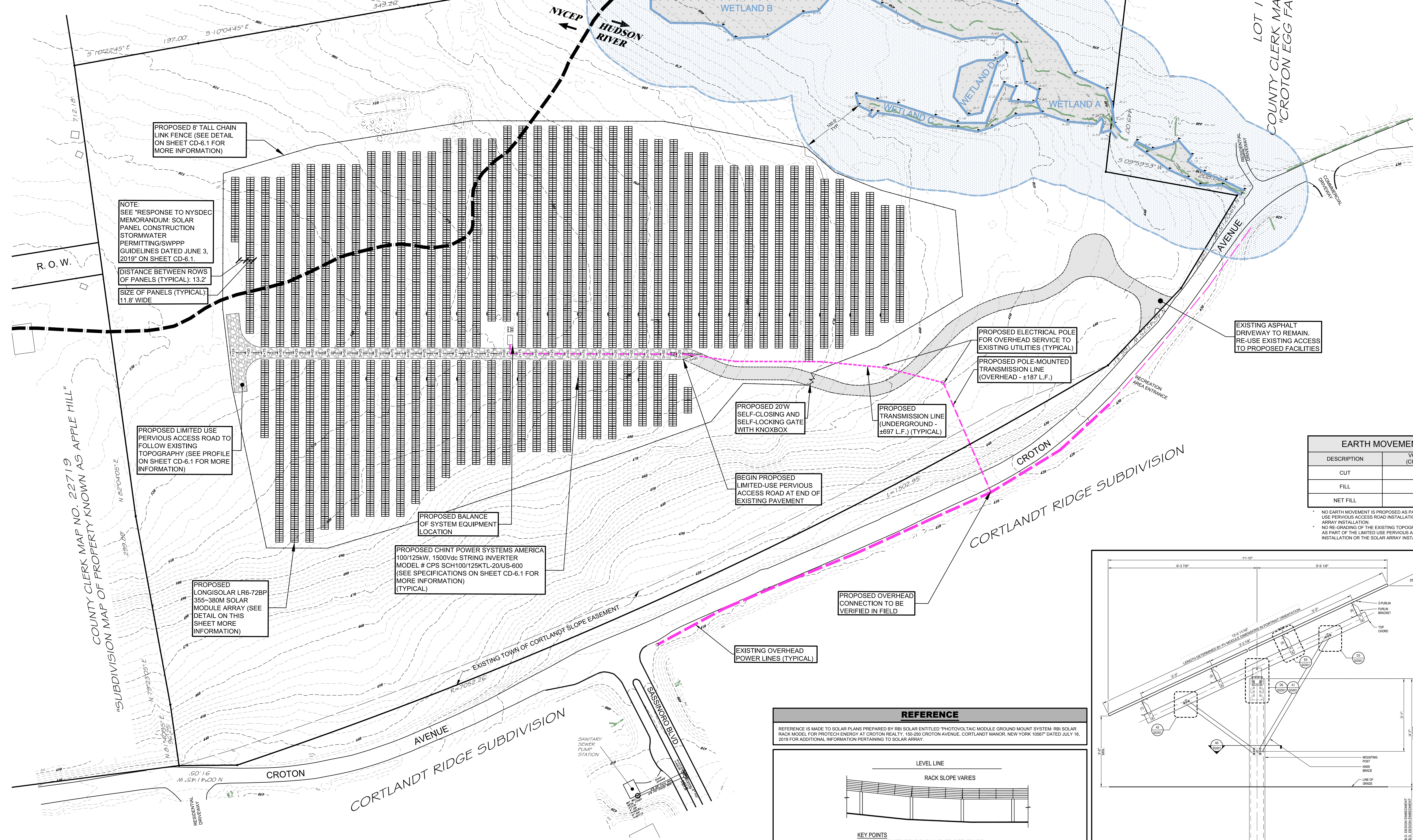
MUNICIPAL TAX IDENTIFICATION:
SECTION: 34.14
BLOCK: 2
LOT: 28
SUBLOT: ---
DRAWN BY: KCS/JCAKAA
CHECKED BY: KCS
PROJECT: DIMENSION
DATE: JULY 17, 2019
JOB #: 180605

CRONIN ENGINEERING
PROFESSIONAL ENGINEERING & CONSULTING
(914) 736-3664

39 ARLO LAKE
CORTLANDT, NEW YORK 10567

SITE PLAN
SITE DEVELOPMENT FOR CROTON SOLAR, LLC

LOCATION:
200 CROTON AVENUE
TOWN OF CORTLANDT, NEW YORK 10567



NOTE:
SEE "RESPONSE TO NYSDEC MEMORANDUM: SOLAR PANEL CONSTRUCTION STORMWATER PERMITTING/SWPPP GUIDELINES DATED JUNE 3, 2019" ON SHEET CD-6.1.
DISTANCE BETWEEN ROWS OF PANELS (TYPICAL): 13.2'
SIZE OF PANELS (TYPICAL): 11.8' WIDE

PROPOSED LIMITED USE PERVIOUS ACCESS ROAD TO FOLLOW EXISTING TOPOGRAPHY (SEE PROFILE ON SHEET CD-6.1 FOR MORE INFORMATION)

PROPOSED LONGISOLAR LR6-72BP 355-300M SOLAR MODULE ARRAY (SEE DETAIL ON THIS SHEET MORE INFORMATION)

PROPOSED CHINT POWER SYSTEMS AMERICA 100/125kW, 1500Vdc STRING INVERTER MODEL # CPS SCH100/125KTL-20/US-600 (SEE SPECIFICATIONS ON SHEET CD-6.1 FOR MORE INFORMATION) (TYPICAL)

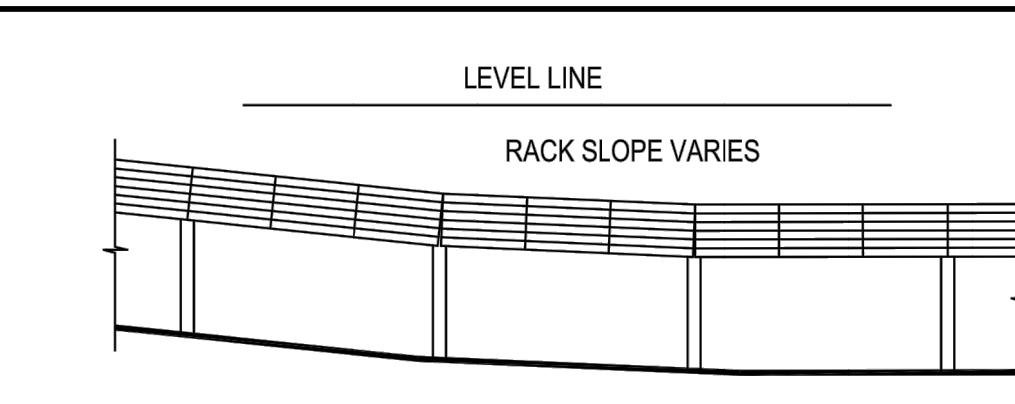
PROPOSED 20'W SELF-CLOSING AND SELF-LOCKING GATE WITH KNOXBOX

PROPOSED TRANSMISSION LINE (UNDERGROUND ±697' L.F.) (TYPICAL)

PROPOSED ELECTRICAL POLE FOR OVERHEAD SERVICE TO EXISTING UTILITIES (TYPICAL)
PROPOSED POLE-MOUNTED TRANSMISSION LINE (OVERHEAD - ±187' L.F.)

EXISTING ASPHALT DRIVEWAY TO REMAIN. RE-USE EXISTING ACCESS TO PROPOSED FACILITIES

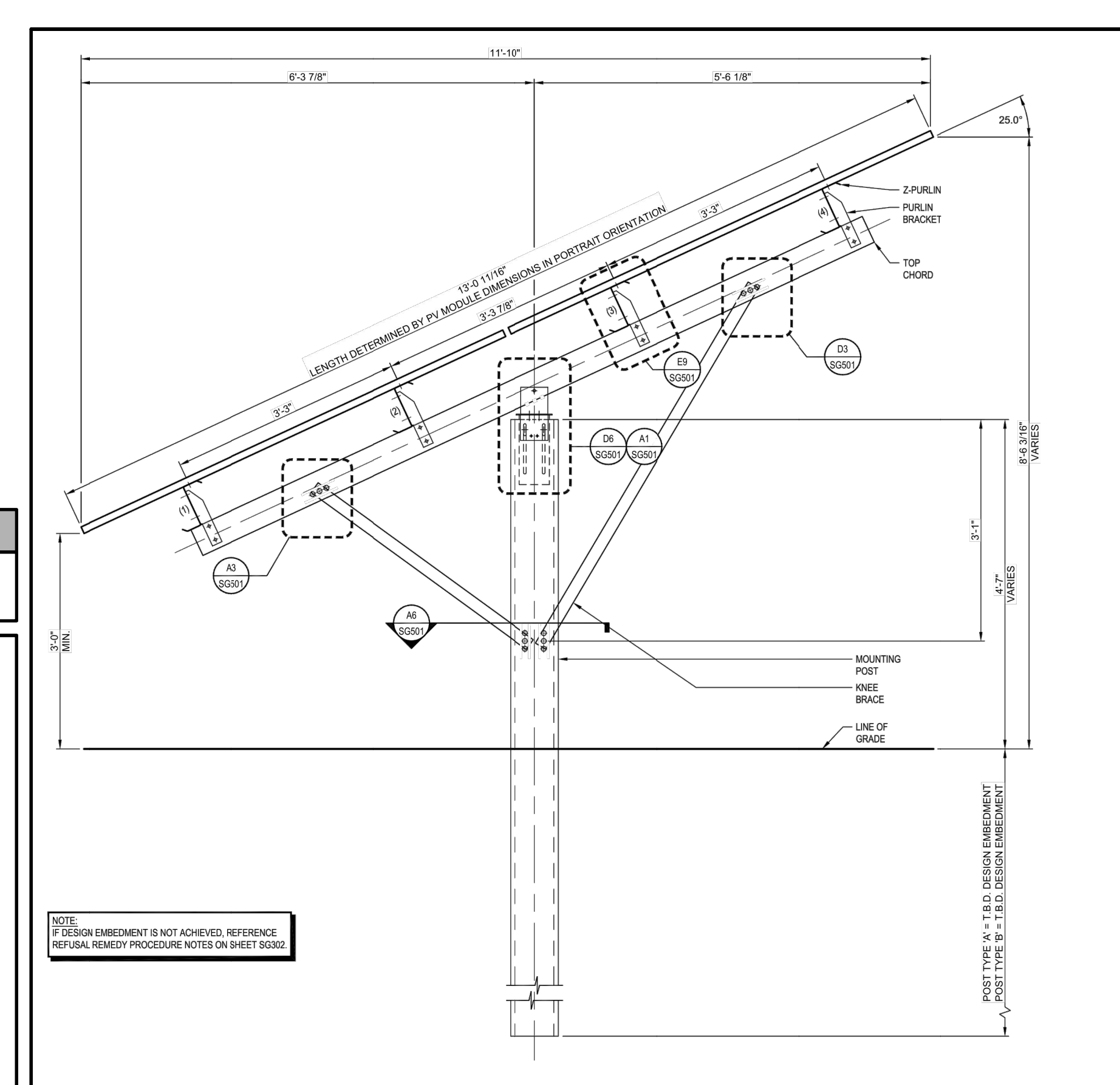
REFERENCE
REFERENCE IS MADE TO SOLAR PLANS PREPARED BY RBL SOLAR ENTITLED "PHOTOVOLTAIC MODULE GROUND MOUNT SYSTEM: RBL SOLAR RACK MODEL FOR PROTECH ENERGY AT CROTON REALTY, 150-250 CROTON AVENUE, CORTLANDT MANOR, NEW YORK 10567 DATED JULY 16, 2019 FOR ADDITIONAL INFORMATION PERTAINING TO SOLAR ARRAY.



- KEY POINTS**
- RACK STRUCTURE IS PARALLEL TO SITE GRADE
 - COLUMN LENGTHS ARE EQUAL THROUGHOUT
 - TOPS OF PIERS FOLLOW SITE GRADE
 - EXPOSED PIER HEIGHTS MAY VARY

FOLLOW GRADE

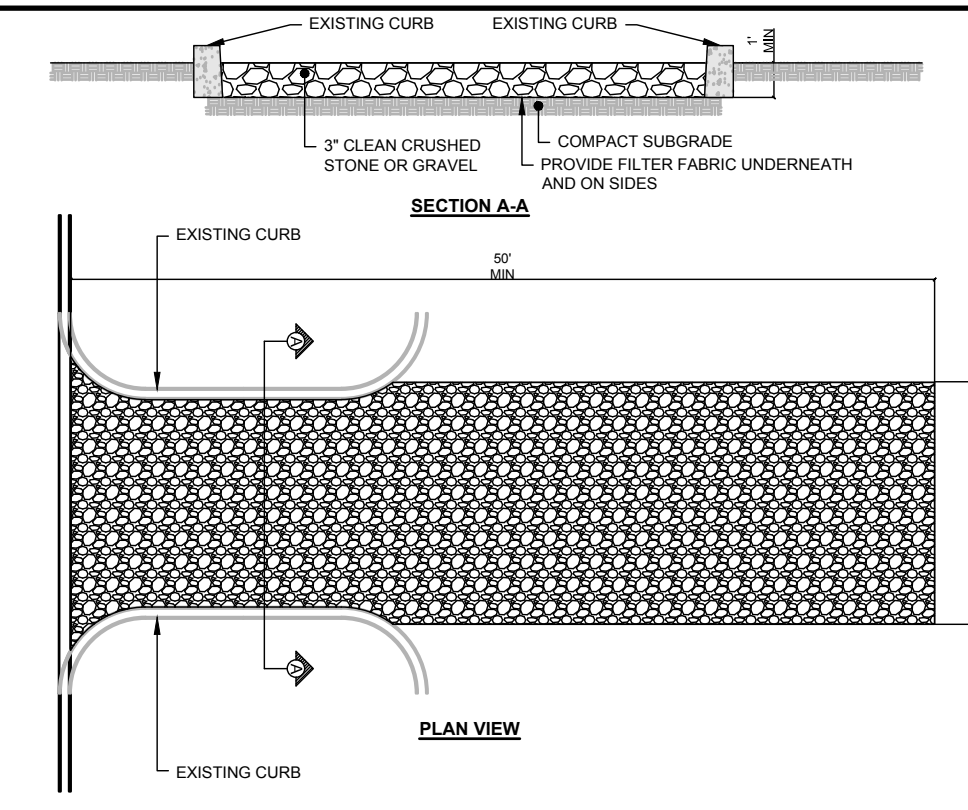
PRELIMINARY RACK SYSTEM TOPOGRAPHIC RELATIONSHIP N.T.S.



PRELIMINARY DESIGN RACK SECTION N.T.S.

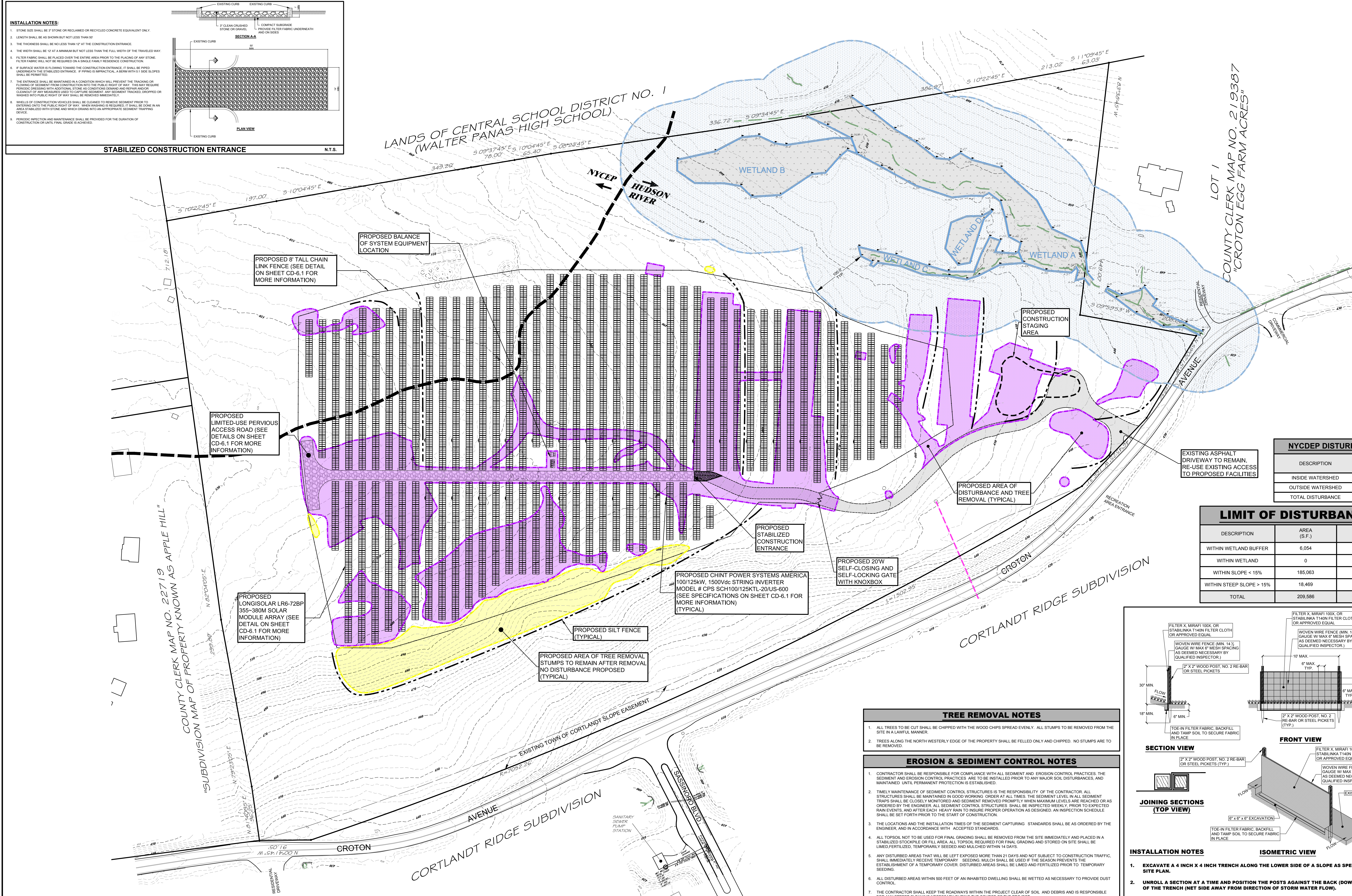
SITE PLAN
SCALE: 1 IN. = 60 FT.

- INSTALLATION NOTES**
1. FABRIC SHALL BE 35% STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT ONLY.
 2. LENGTH SHALL BE AS SHOWN BUT NOT LESS THAN 10'
 3. THE THICKNESS SHALL BE NOT LESS THAN 12" AT THE CONSTRUCTION ENTRANCE.
 4. THE WIDTH SHALL BE 12' AT A MINIMUM BUT NOT LESS THAN THE FULL WIDTH OF THE TRAVELED WAY.
 5. FILTER FABRIC SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO THE PLACING OF ANY STONE. FILTER FABRIC WILL NOT BE REQUIRED ON A SINGLE PAVED RESIDENCE CONSTRUCTION.
 6. IF SURFACE WATER IS FLOWING TOWARD THE CONSTRUCTION ENTRANCE, IT SHALL BE PIPED UNDERNEATH THE STABILIZED ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SIDE SLOPES SHALL BE REINSTATED.
 7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT THE TRACKING OR FLOWING OF SEDIMENT FROM CONSTRUCTION INTO THE PUBLIC RIGHT OF WAY. THIS MAY REQUIRE PERIODIC PRESSURE WASHING OF THE ENTRANCE AS CONSTRUCTION PROGRESS AND REPAIR AND/OR CLEANING TO AN AREA REQUIRING TO CAPTURE SEDIMENT. ALL SEDIMENT TRAPped, UNPAVED OR UNPAVED AREAS SHALL BE STABILIZED WITH STONE OR RECLAIMED CONCRETE EQUIVALENT.
 8. WHEELS OF CONSTRUCTION VEHICLES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING ONTO THE PUBLIC RIGHT OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE IN AN AREA STABILIZED WITH STONE AND WASH WASTE INTO AN APPROPRIATE SEDIMENT TRAPPING DEVICE.
 9. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED FOR THE DURATION OF CONSTRUCTION OR UNTIL FINAL GRADE IS ACHIEVED.



STABILIZED CONSTRUCTION ENTRANCE N.T.S.

LANDS OF CENTRAL SCHOOL DISTRICT NO. 1
(WALTER PANAS HIGH SCHOOL)



NYCDEP DISTURBANCE

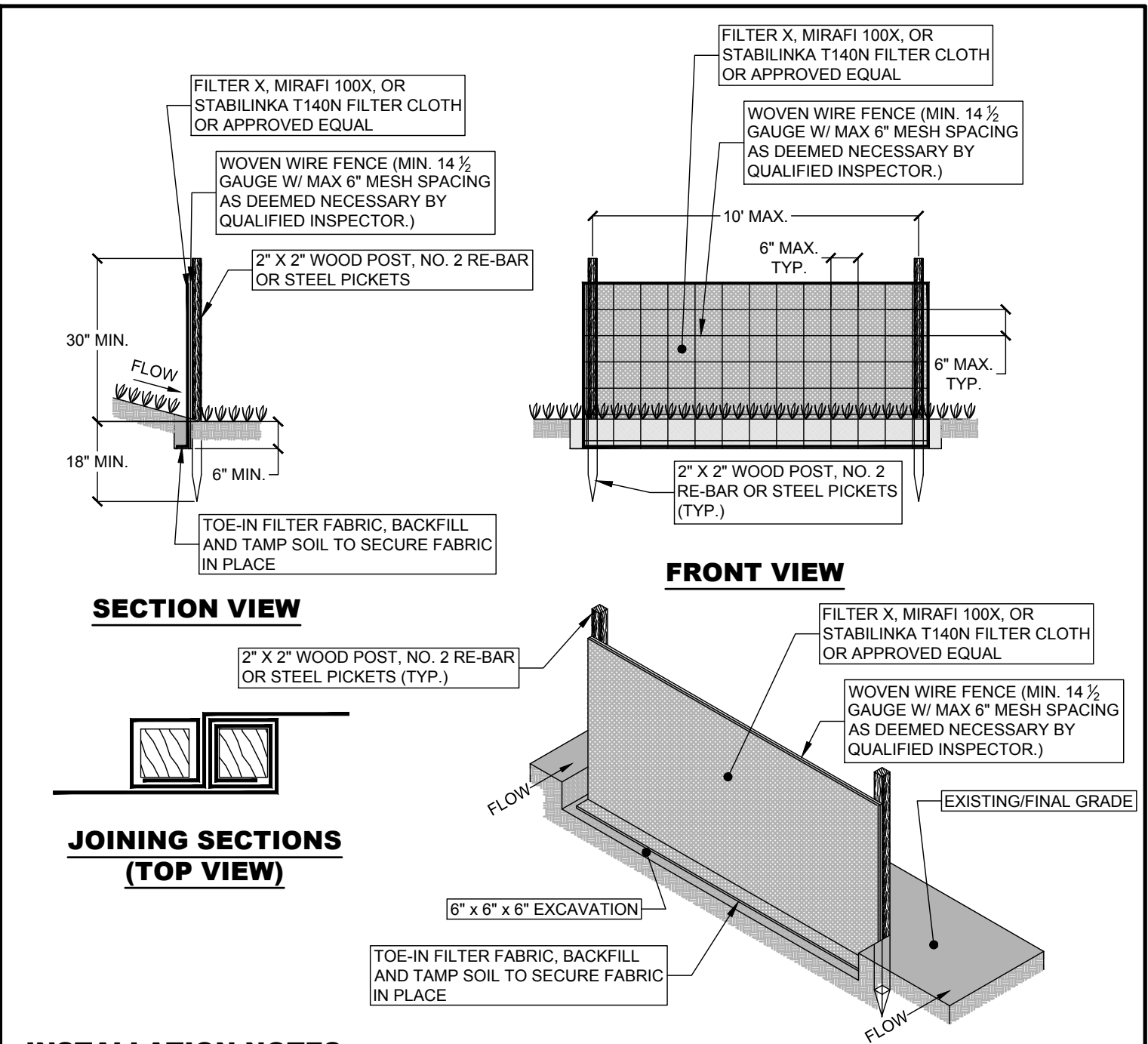
DESCRIPTION	AREA (S.F.)
INSIDE WATERSHED	4,650
OUTSIDE WATERSHED	204,938
TOTAL DISTURBANCE	209,588

LIMIT OF DISTURBANCE

DESCRIPTION	AREA (S.F.)	AREA (ACRES)
WITHIN WETLAND BUFFER	6,054	0.14
WITHIN WETLAND	0	0.00
WITHIN SLOPE < 15%	185,063	4.25
WITHIN STEEP SLOPE > 15%	18,469	0.42
TOTAL	209,586	4.81

- TREE REMOVAL NOTES**
1. ALL TREES TO BE CUT SHALL BE CHIPPED WITH THE WOOD CHIPS SPREAD EVENLY. ALL STUMPS TO BE REMOVED FROM THE SITE IN A LAWFUL MANNER.
 2. TREES ALONG THE NORTH WESTERLY EDGE OF THE PROPERTY SHALL BE FELLED ONLY AND CHIPPED. NO STUMPS ARE TO BE REMOVED.

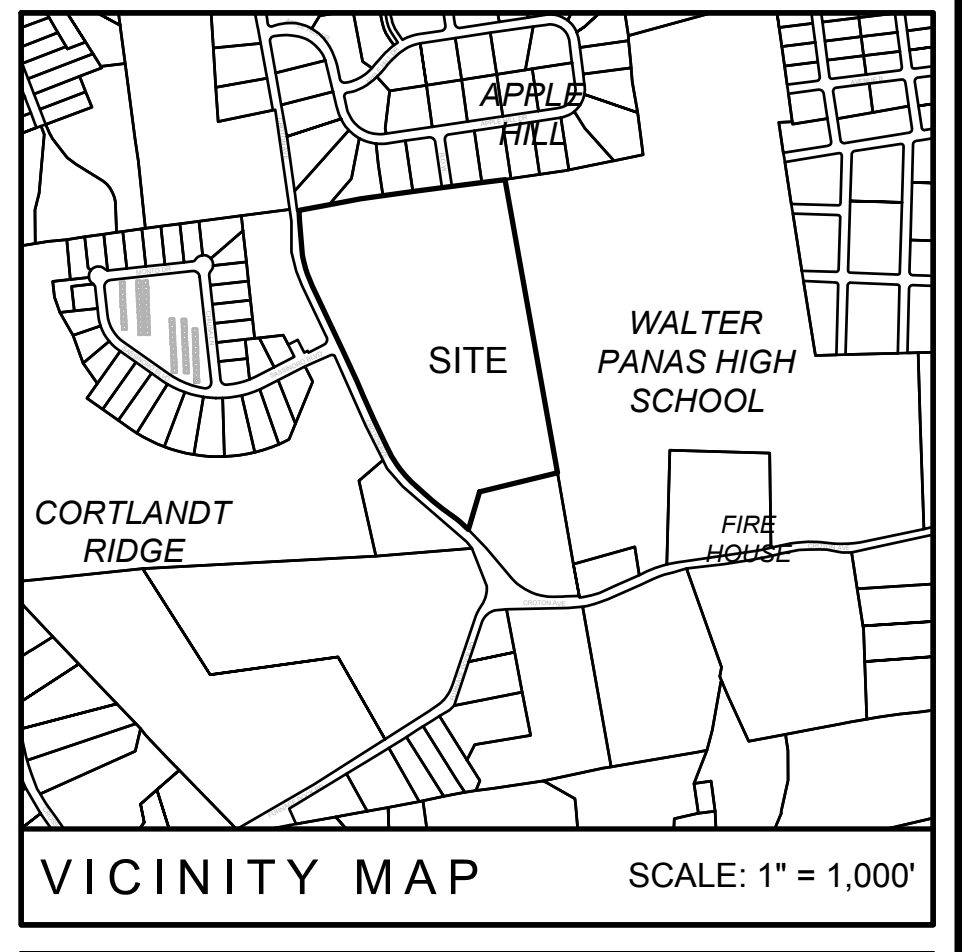
- EROSION & SEDIMENT CONTROL NOTES**
1. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL SEDIMENT AND EROSION CONTROL PRACTICES. THE SEDIMENT AND EROSION CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCES, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
 2. TIMELY MAINTENANCE OF SEDIMENT CONTROL STRUCTURES IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL STRUCTURES SHALL BE MAINTAINED IN GOOD WORKING ORDER AT ALL TIMES. THE SEDIMENT LEVEL IN ALL SEDIMENT TRAPS SHALL BE CLOSELY MONITORED AND SEDIMENT REMOVED PROMPTLY WHEN MAXIMUM LEVELS ARE REACHED OR AS ORDERED BY THE ENGINEER. ALL SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED WEEKLY, PRIOR TO EXPECTED RAIN EVENTS, AND AFTER EACH HEAVY RAIN TO INSURE PROPER OPERATION AS DESIGNED. AN INSPECTION SCHEDULE SHALL BE SET FORTH PRIOR TO THE START OF CONSTRUCTION.
 3. THE LOCATIONS AND THE INSTALLATION TIMES OF THE SEDIMENT CAPTURING STANDARDS SHALL BE AS ORDERED BY THE ENGINEER, AND IN ACCORDANCE WITH ACCEPTED STANDARDS.
 4. ALL TOPSOIL NOT TO BE USED FOR FINAL GRADING SHALL BE REMOVED FROM THE SITE IMMEDIATELY AND PLACED IN A STABILIZED STOCKPILE OR FILL AREA. ALL TOPSOIL REQUIRED FOR FINAL GRADING AND STORED ON SITE SHALL BE LIMED, FERTILIZED, TEMPORARILY SEEDED AND MULCHED WITHIN 14 DAYS.
 5. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 21 DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, SHALL IMMEDIATELY RECEIVE TEMPORARY SEEDING. MULCH SHALL BE USED IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER. DISTURBED AREAS SHALL BE LIMED AND FERTILIZED PRIOR TO TEMPORARY SEEDING.
 6. ALL DISTURBED AREAS WITHIN 500 FEET OF AN INHABITED DWELLING SHALL BE WETTED AS NECESSARY TO PROVIDE DUST CONTROL.
 7. THE CONTRACTOR SHALL KEEP THE ROADWAYS WITHIN THE PROJECT CLEAR OF SOIL AND DEBRIS AND IS RESPONSIBLE FOR ANY STREET CLEANING NECESSARY DURING THE COURSE OF THE PROJECT.
 8. SEDIMENT AND EROSION CONTROL STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED BY PERMANENT MEASURES.
 9. SOIL SEEDING AND FERTILIZER AMENDMENTS SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF "NEW YORK GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL".
 10. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT EDITION OF "NEW YORK GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL".
 11. ALL SLOPES, BOTH CREATED OR DISTURBED, WHICH EXCEED 4H:1V SHALL BE STABILIZED WITH PROPER EROSION CONTROL MATTING (SEE APPROPRIATE DETAIL).
 12. ALL CONTRACTORS SHALL BE RESPONSIBLE FOR SIGNING THE CONTRACTOR CERTIFICATION IN APPENDIX A OF THE PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP) BEFORE UNDERTAKING ANY CONSTRUCTION ACTIVITY AT THE SITE. A COPY OF THE SIGNED SWPPP SHALL BE MAINTAINED ON SITE AT ALL TIMES DURING CONSTRUCTION.



- INSTALLATION NOTES**
1. EXCAVATE A 4 INCH X 4 INCH TRENCH ALONG THE LOWER SIDE OF A SLOPE AS SPECIFIED ON SITE PLAN.
 2. UNROLL A SECTION AT A TIME AND POSITION THE POSTS AGAINST THE BACK (DOWNHILL) WALL OF THE TRENCH (NET SIDE AWAY FROM DIRECTION OF STORM WATER FLOW).
 3. DRIVE THE POST INTO THE GROUND UNTIL THE NETTING IS APPROXIMATELY 2 INCHES FROM THE TRENCH BOTTOM.
 4. LAY THE TIE-IN FLAP OF FABRIC FLAT IN THE BOTTOM OF THE TRENCH AND BACKFILL THE TRENCH AND TAMP THE SOIL OVER THE FLAP TO SECURELY HOLD THE FABRIC IN PLACE. STEEPER SLOPES REQUIRE AN INTERCEPT TRENCH.
 5. JOIN SECTIONS AS SHOWN ABOVE.
 6. PREFABRICATED UNITS SHALL BE OF TYPE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.

SILT FENCE INSTALLATION N.T.S.

EROSION AND SEDIMENT CONTROL PLAN
SCALE: 1 IN. = 60 FT.



VICINITY MAP SCALE: 1" = 1,000'

APPLICANT/CONTRACT VENUEE

CROTON SOLAR, LLC
3280 PEACHTREE ROAD NE, 7TH FLOOR
ATLANTA, GA 30305

PROPERTY OWNER

CROTON REALTY & DEVELOPMENT, INC.
200 CROTON AVENUE
CORTLANDT MANOR, NY 10567

SCALE: 1" = 60 FT.

REVISIONS

#	REASON	DATE

STATE OF NEW YORK
TIMOTHY L. CRONIN III, P.E.
LICENSE #092980

CROTON ENGINEERING
PROFESSIONAL ENGINEERING & CONSULTING
(914) 736-3664

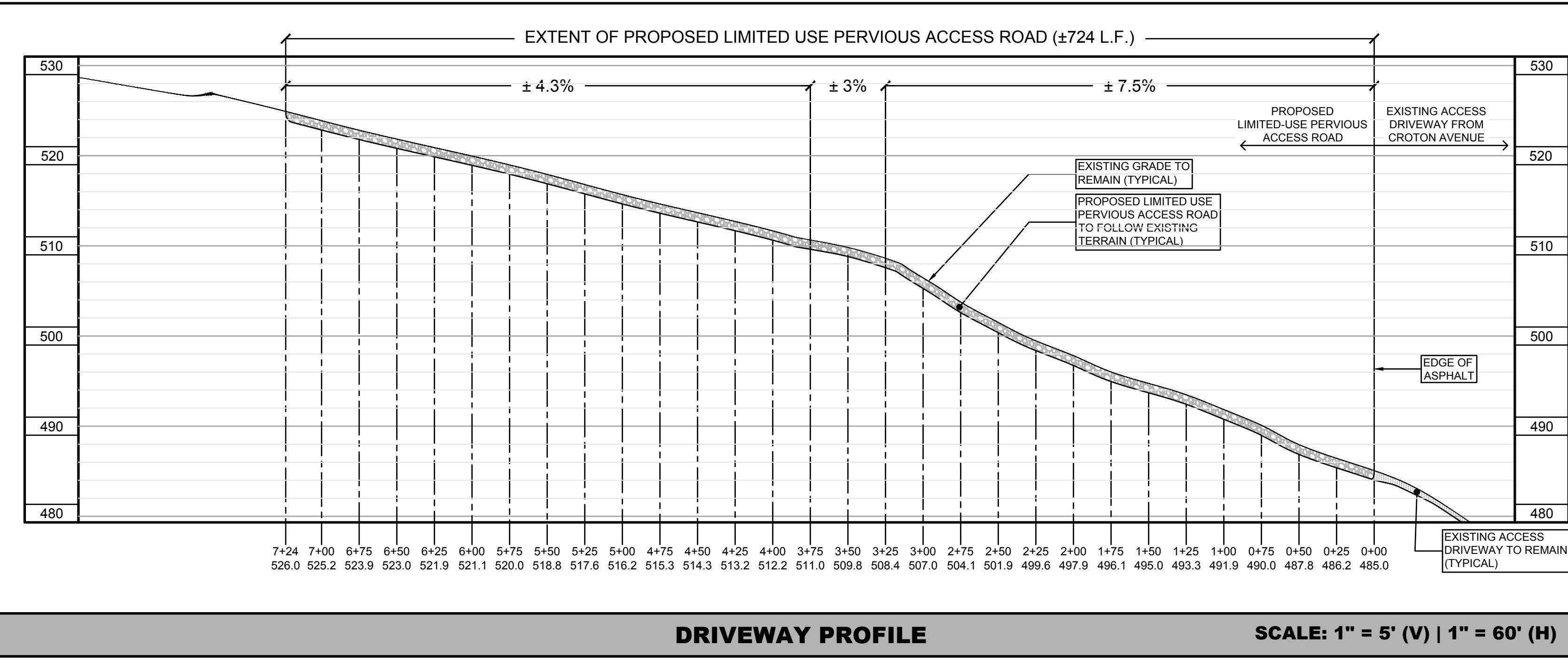
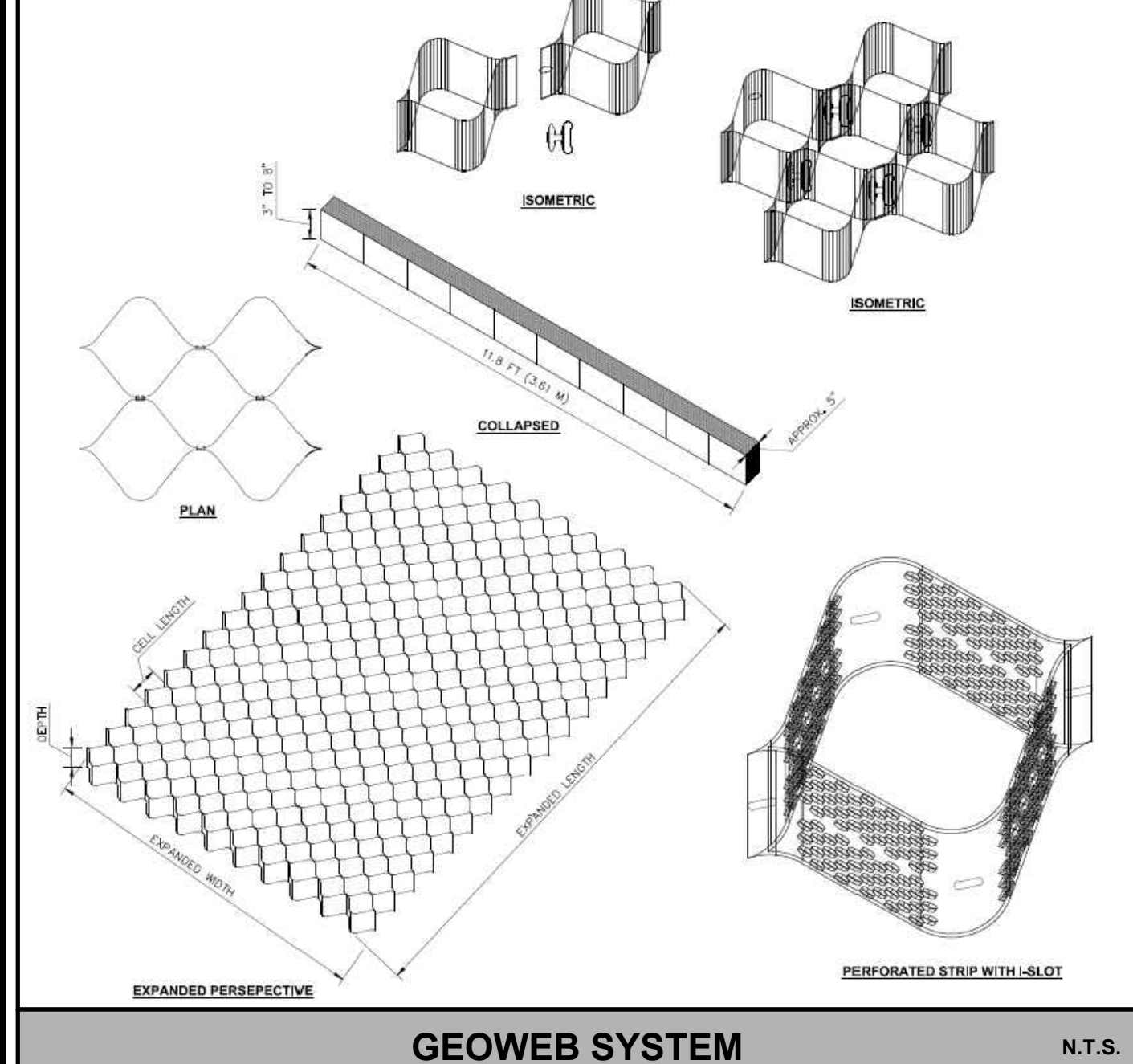
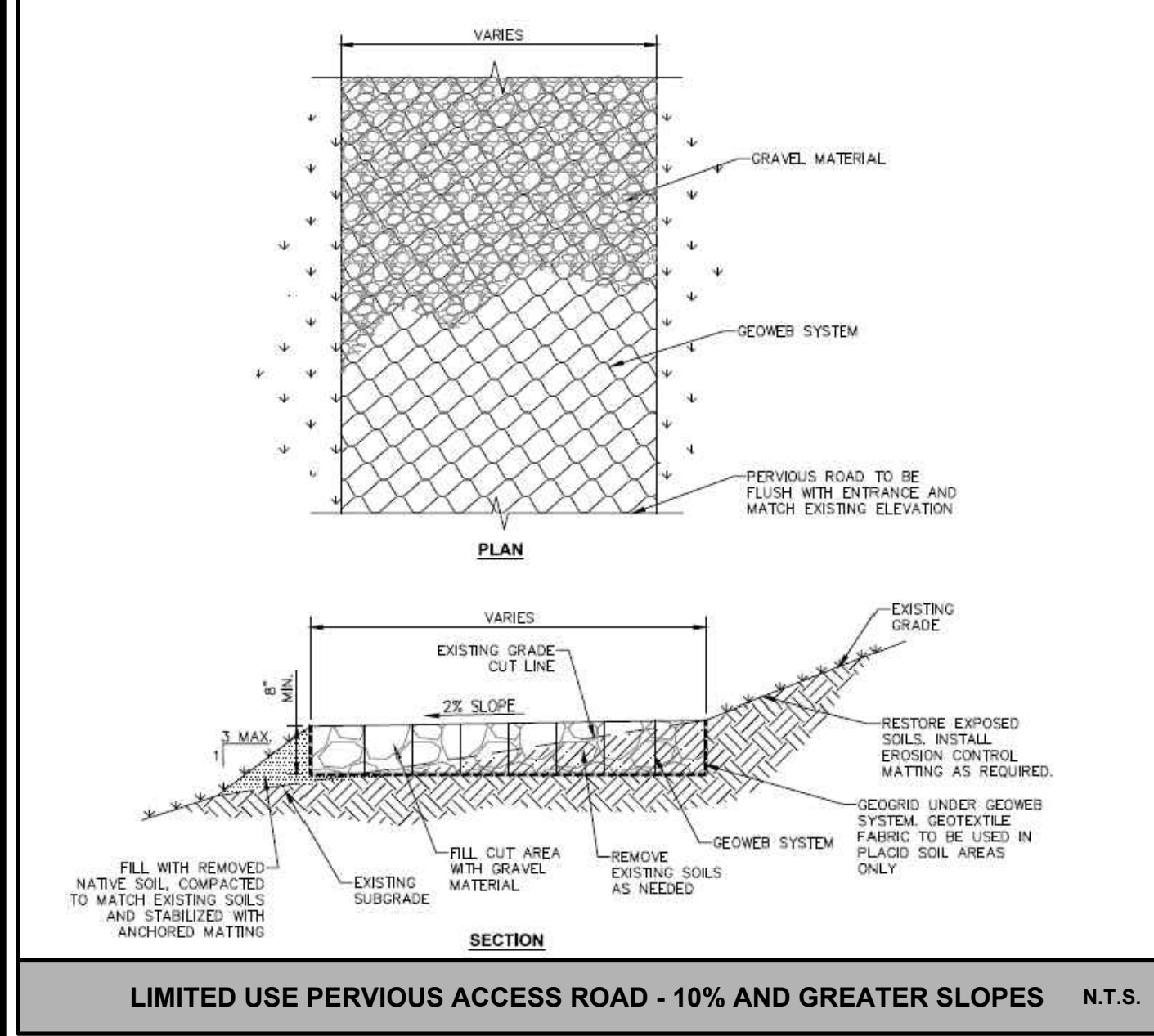
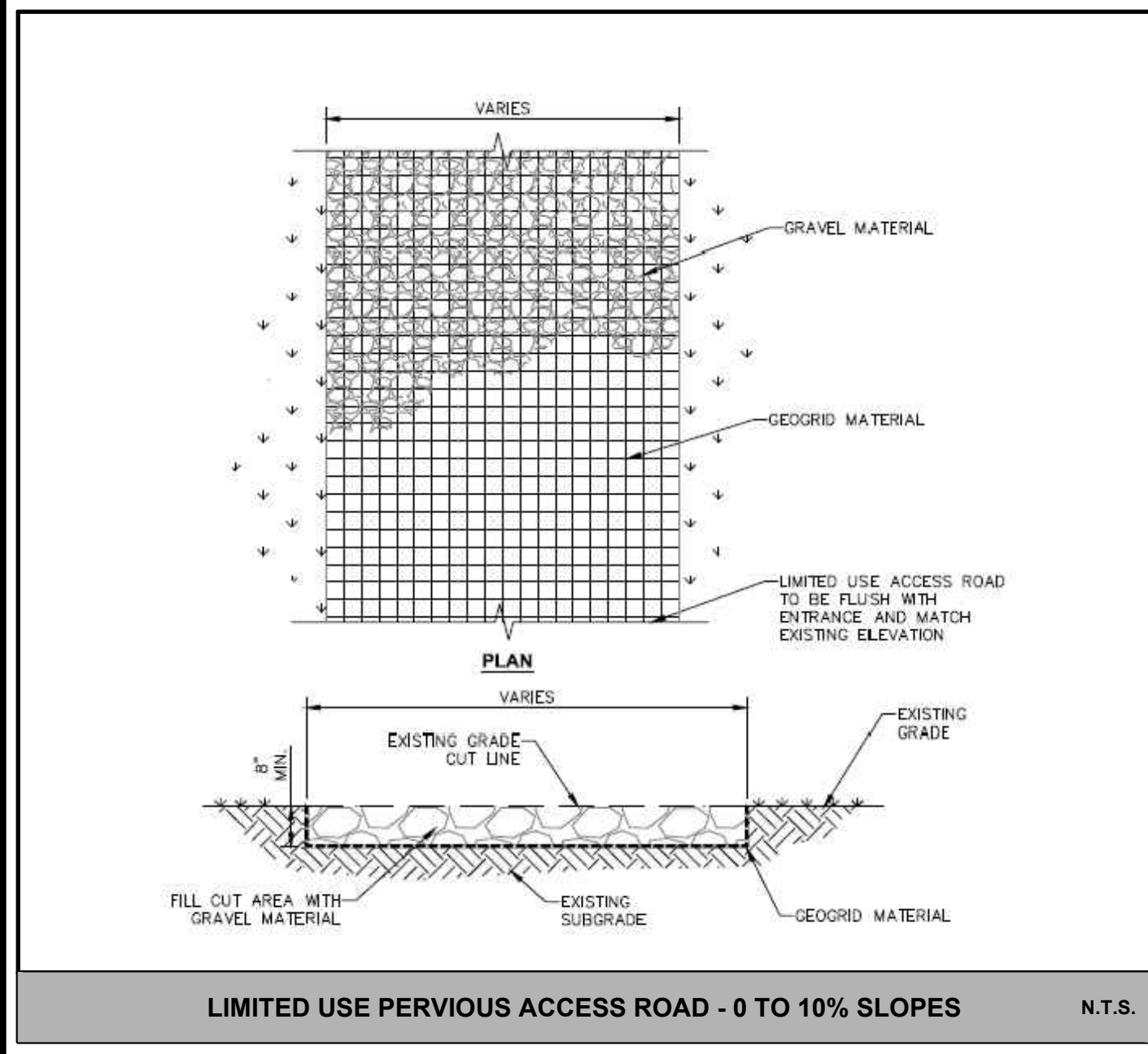
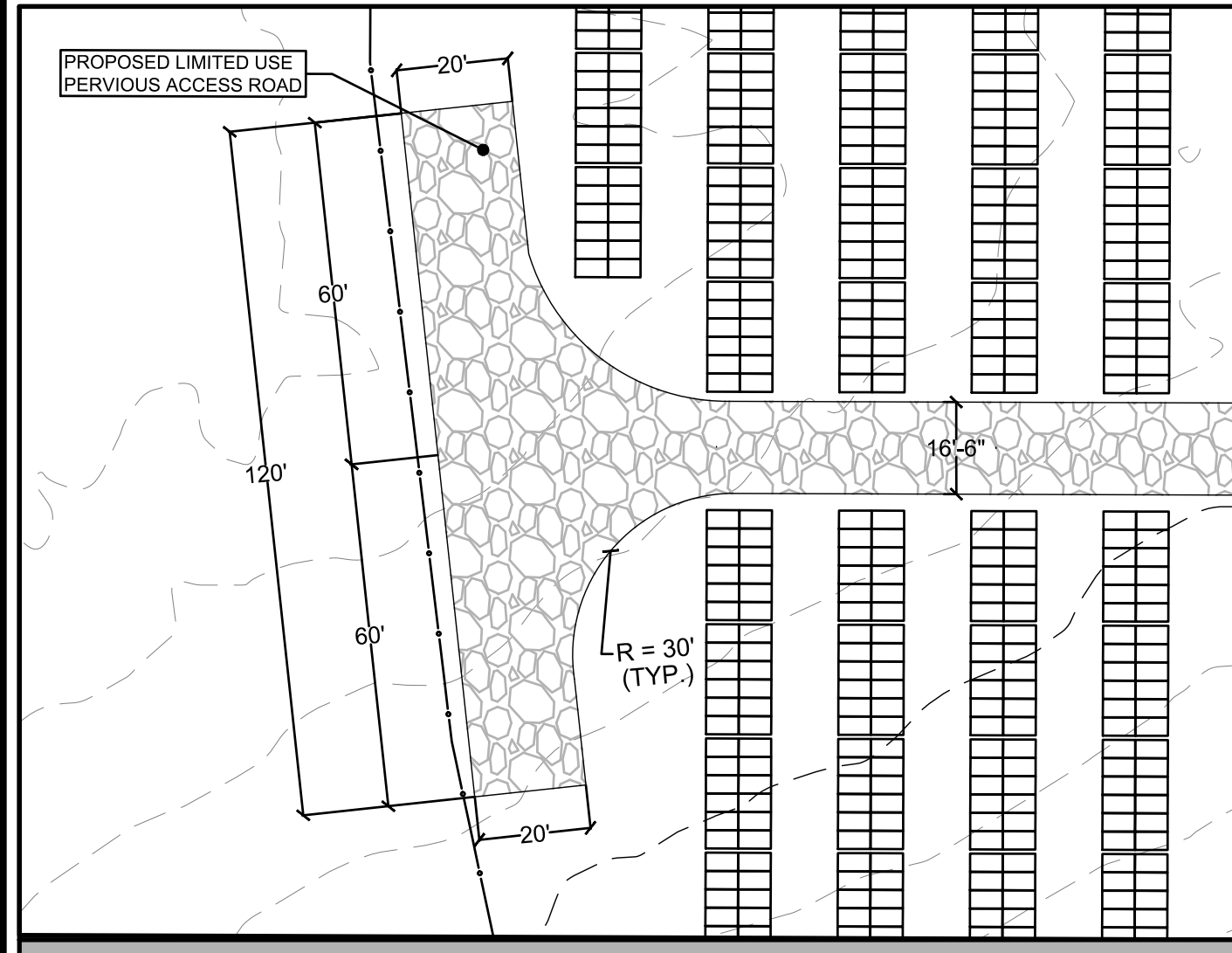
39 ARLO LAKE
CORTLANDT, NEW YORK 10567

EROSION AND SEDIMENT CONTROL PLAN

SITE DEVELOPMENT FOR CROTON SOLAR, LLC

LOCATION:
200 CROTON AVENUE
TOWN OF CORTLANDT, NEW YORK 10567

SHEET 6 OF 7 **ESC-5.1**



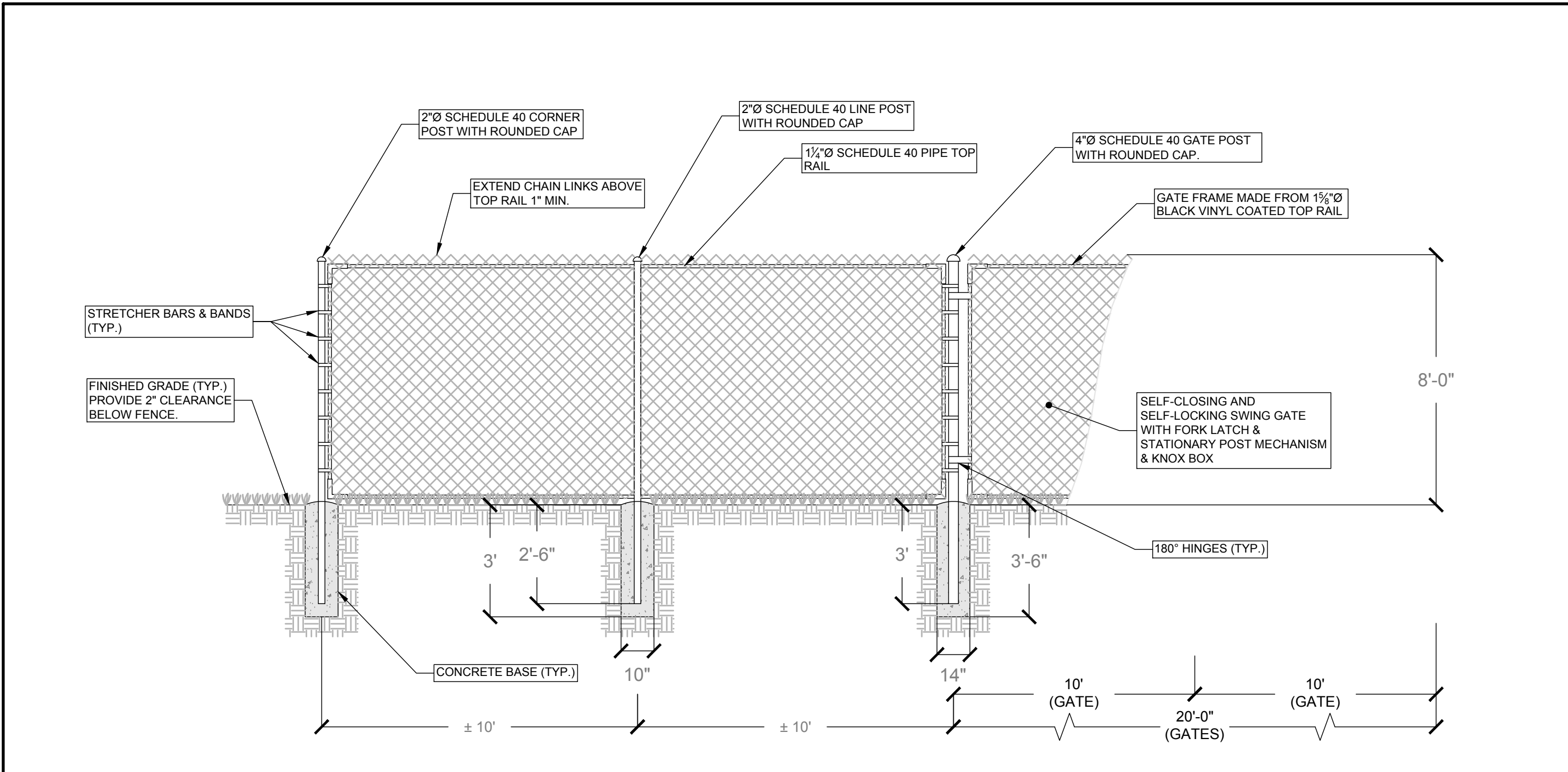
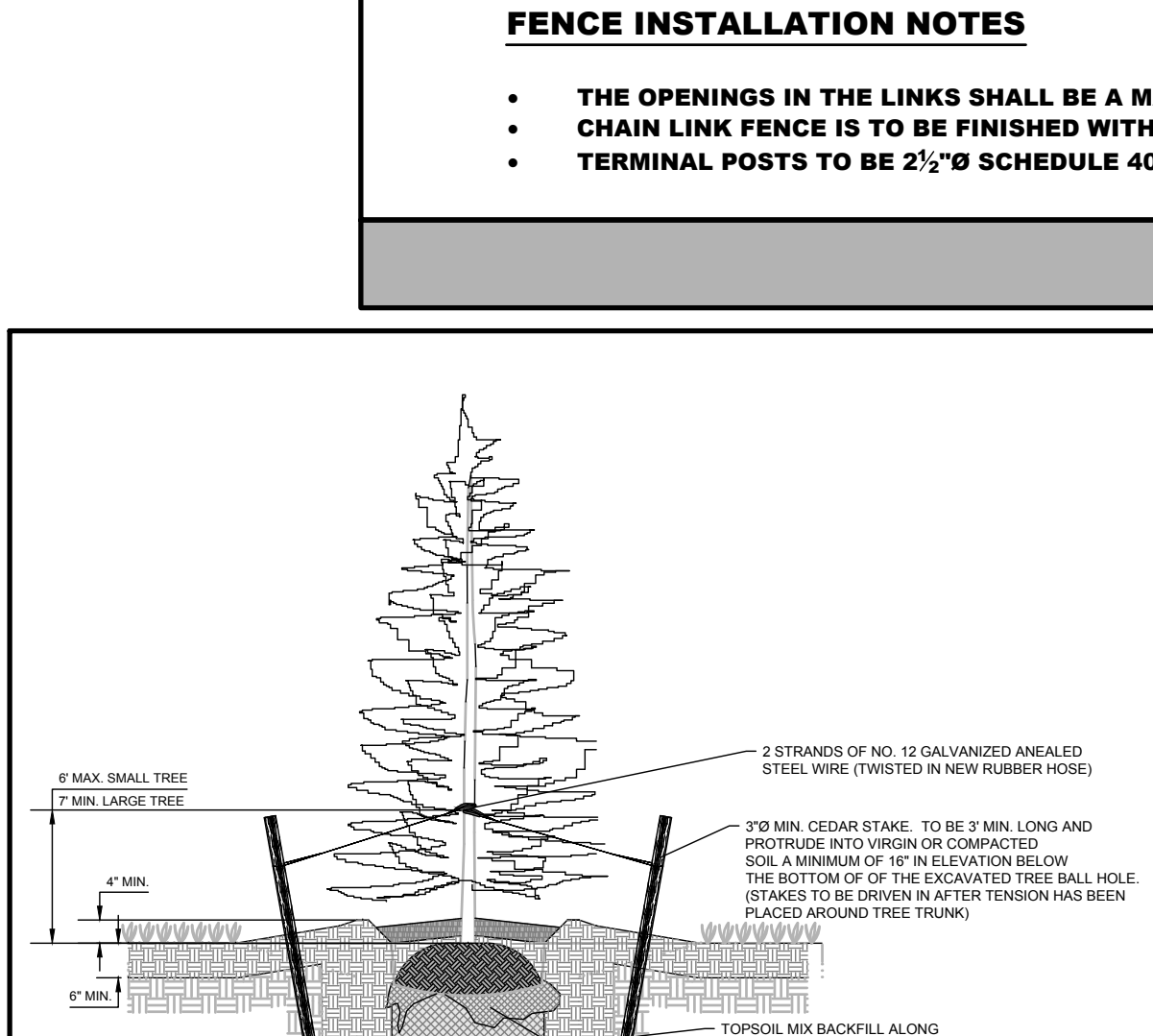
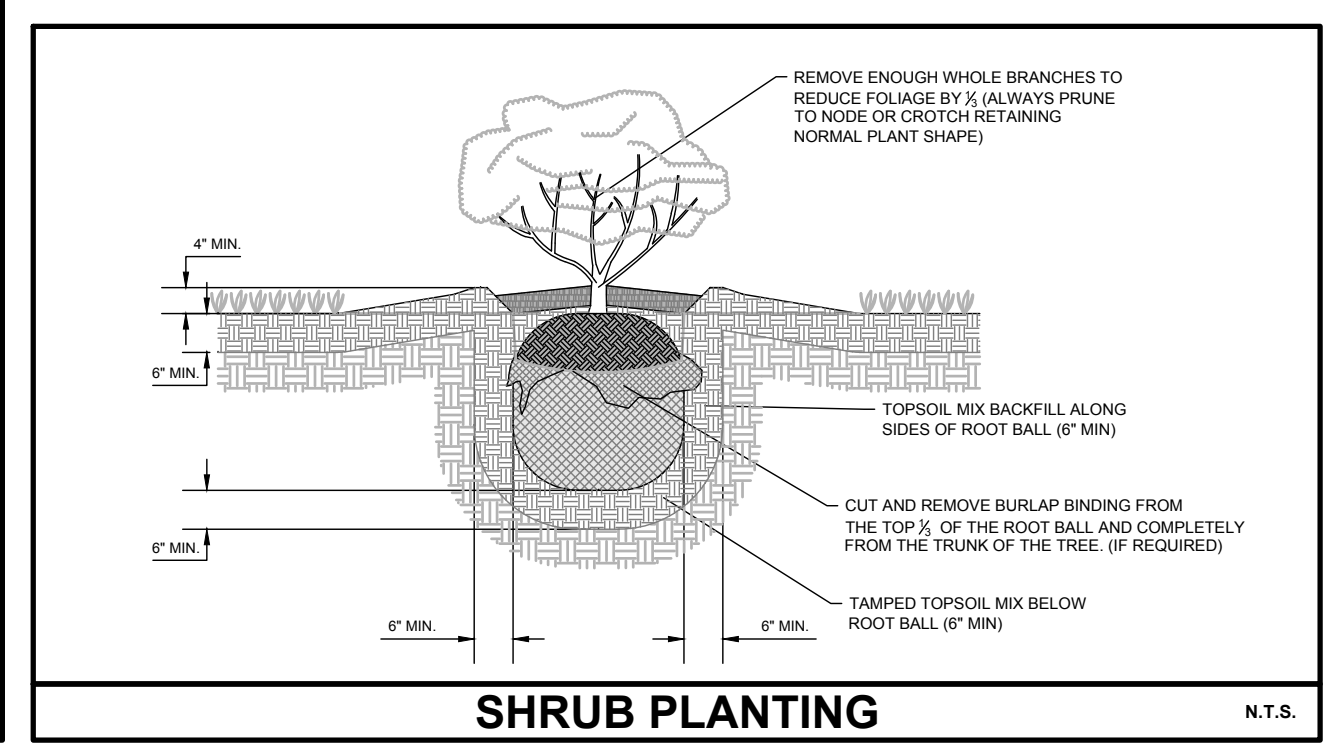
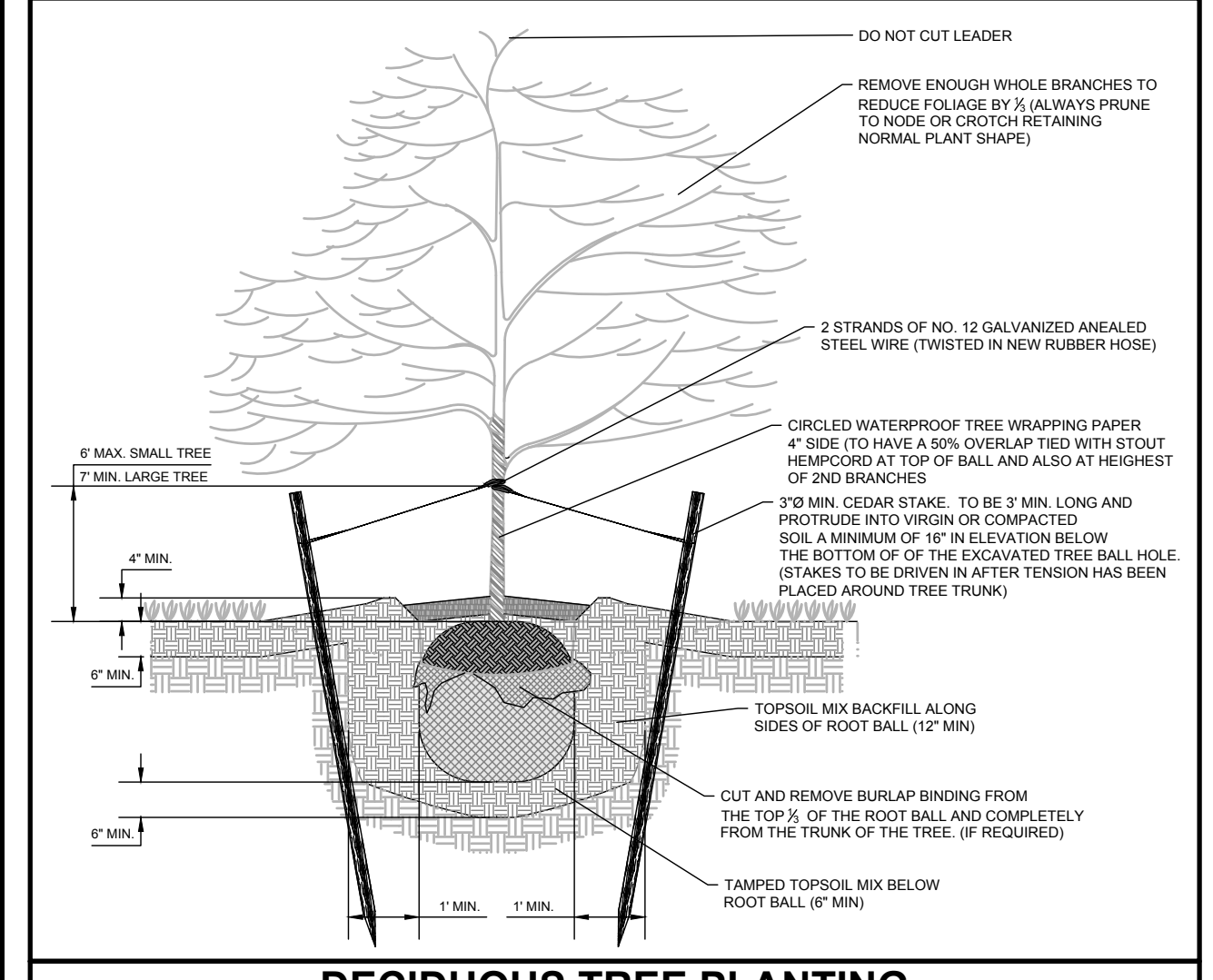
LIMITED USE PERVIOUS ACCESS ROAD NOTES

GENERAL NOTES:

- USE OF THIS DETAIL/CRITERION IS LIMITED TO ACCESS ROADS USED ON AN OCCASIONAL BASIS ONLY (I.E. PROVIDE ACCESS FOR MOVING, EQUIPMENT REPAIR OR MAINTENANCE, ETC.)
- LIMITED USE PERVIOUS ACCESS ROAD IS LIMITED TO LOW IMPACT/IRREGULAR MAINTENANCE ASSOCIATED WITH RENEWABLE ENERGY PROJECTS IN NEW YORK STATE.
- REMOVE STUMPS, ROCKS, AND DEBRIS AS NECESSARY. FILL VOIDS TO MATCH EXISTING NATIVE SOILS AND COMPACTION LEVEL.
- REMOVED TOPSOIL MAY BE SPREAD IN ADJACENT AREAS AS DIRECTED BY THE PROJECT ENGINEER. COMPACT TO THE DEGREE OF THE NATIVE IN-SITU SOIL. DO NOT PLACE IN AN AREA THAT IMPEDES STORMWATER DRAINAGE.
- GRADE ROADWAY, WHERE NECESSARY, TO NATIVE SOIL AND DESIRED ELEVATION. MINOR GRADING FOR CROSS SLOPE CUT AND FILL MAY BE REQUIRED.
- REMOVE REFUSE SOILS AS DIRECTED BY THE PROJECT ENGINEER. DO NOT PLACE IN AN AREA THAT IMPEDES STORMWATER DRAINAGE.
- ROADWAY WIDTH DEFINED IN PLAN.
- THE LIMITED USE PERVIOUS ACCESS ROAD CROSS SLOPE SHALL BE 2% IN MOST CASES AND SHOULD NOT EXCEED 6%. THE LONGITUDINAL SLOPE OF THE ACCESS DRIVE SHOULD NOT EXCEED 15%.
- LIMITED USE PERVIOUS ACCESS ROAD IS NOT TO BE UTILIZED FOR CONSTRUCTION WHICH MAY SUBJECT THE ROAD TO SEDIMENT TRACKING. THIS SPECIFICATION IS TO BE DEVELOPED FOR POST-CONSTRUCTION USE. SOIL RESTORATION PRACTICES MAY BE APPLICABLE TO RESTORE CONSTRUCTION RELATED COMPACTION TO PRE-EXISTING CONDITIONS AND SHOULD BE VERIFIED BY SOIL PENETROMETER READINGS. THE PENETROMETER READINGS SHALL BE COMPARED TO THE RESPECTIVE RECORDED READINGS TAKEN PRIOR TO CONSTRUCTION. EVERY 100 LINEAR FEET ALONG THE PROPOSED ROADWAY.
- TO ENSURE THAT SOIL IS NOT TRACKED ONTO THE LIMITED USE PERVIOUS ACCESS ROAD, IT SHALL NOT BE USED BY CONSTRUCTION VEHICLES TRANSPORTING SOIL, FILL MATERIAL, ETC. IF ACCESS IS COMPLETED DURING THE INITIAL PHASES OF CONSTRUCTION, A STABILIZED CONSTRUCTION ACCESS/ENTRANCE IS REQUIRED TO REMOVE SEDIMENT FROM CONSTRUCTION VEHICLES AND EQUIPMENT PRIOR TO ENTERING THE LIMITED USE PERVIOUS ACCESS ROAD. MAINTENANCE OF THE PERVIOUS ACCESS ROAD WILL BE REQUIRED IF SEDIMENT IS OBSERVED WITHIN THE CLEAN STONE.
- THE LIMITED USE PERVIOUS ACCESS ROAD SHALL NOT BE CONSTRUCTED OR USED UNTIL ALL AREAS SUBJECT TO RUNOFF ONTO THE PERVIOUS ACCESS HAVE ACHIEVED FINAL STABILIZATION.
- PROJECTS SHOULD AVOID INSTALLATION OF THE LIMITED USE PERVIOUS ACCESS ROAD IN POORLY DRAINED AREAS, HOWEVER IF NO ALTERNATIVE LOCATION IS AVAILABLE, THE PROJECT SHALL UTILIZE WOVEN GEOTEXTILE MATERIAL AS DETAILED IN FOLLOWING NOTES.
- THE PERVIOUS ACCESS ROAD WILL HAVE A WELL-ESTABLISHED PERENNIAL VEGETATIVE COVER, WHICH SHALL CONSIST OF UNIFORM VEGETATION, 20 FEET PARALLEL TO THE DOWN GRADIENT SIDE OF THE ACCESS ROAD. POST-CONSTRUCTION OPERATION AND MAINTENANCE PRACTICES WILL MAINTAIN THIS VEGETATIVE COVER TO ENSURE FINAL STABILIZATION FOR THE LIFE OF THE ACCESS ROAD.
- THE DESIGN PROFESSIONAL MUST ACCOUNT FOR THE LIMITED USE PERVIOUS ACCESS ROAD IN THEIR SITE ASSESSMENT/HYDROLOGY ANALYSIS. IF THE HYDROLOGY ANALYSIS SHOWS THAT THE HYDROLOGY HAS BEEN ALTERED FROM PRE-TO POST-DEVELOPMENT CONDITIONS (SEE APPENDIX A OF GP-0-15-002 FOR THE DEFINITION OF "ALTER THE HYDROLOGY"), THE DESIGN MUST INCLUDE THE NECESSARY DETENTION/RETENTION PRACTICES TO ATTENUATE THE RATES (10 AND 100 YEAR EVENTS) TO PRE-DEVELOPMENT CONDITIONS.

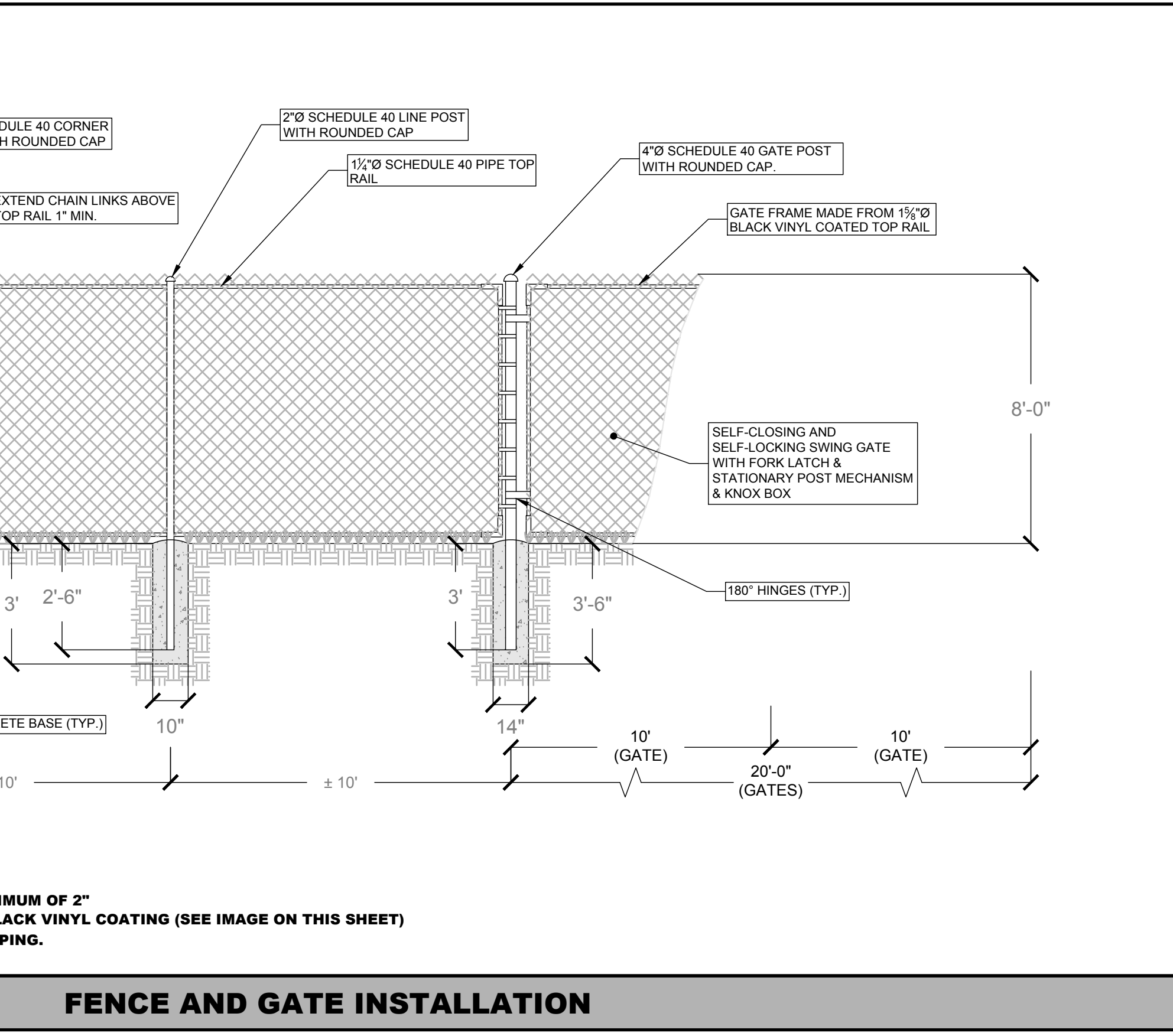
GEOGRID MATERIAL NOTES:

- THE GEOGRID, OR COMPARABLE PRODUCT, IS INTENDED FOR USE FOR ALL CONDITIONS, IN ORDER TO ASSIST IN MATERIAL SEPARATION FROM NATIVE SOILS AND PRESERVE ACCESS ROADS.
- GRAVEL FILL MATERIAL SHALL CONSIST OF 1 TO 4" CLEAN, DURABLE, SHARP-ANGLED CRUSHED STONE OF UNIFORM QUALITY, MEETING THE SPECIFICATIONS OF NYSDOT ITEM 703-02, SIZE DESIGNATION 3-5 OF TABLE T034. STONE MAY BE PLACED IN FRONT OF, AND SPREAD WITH A TRACKER VEHICLE. GRAVEL SHALL NOT BE COMPACTED.
- GEOGRID SHALL BE MIRAFL BX0110 OR APPROVED EQUAL. GEOGRID SHALL BE DESIGNED BASED ON EXISTING SOIL CONDITIONS AND PROPOSED HAUL ROAD SLOPES.
- IF MORE THAN ONE ROLL WIDTH IS REQUIRED, ROLLS SHOULD OVERLAP A MINIMUM OF SIX INCHES.
- REFER TO MANUFACTURER'S SPECIFICATION FOR PROPER TYING AND CONNECTIONS.
- LIMITED USE PERVIOUS ACCESS ROAD SHALL BE TOP DRESSED AS REQUIRED WITH ONLY 1 TO 4" CRUSHED STONE MEETING NYSDOT ITEM 703-02 SPECIFICATIONS.



FENCE INSTALLATION NOTES

- THE OPENINGS IN THE LINKS SHALL BE A MAXIMUM OF 2"
- CHAIN LINK FENCE IS TO BE FINISHED WITH BLACK VINYL COATING (SEE IMAGE ON THIS SHEET)
- TERMINAL POSTS TO BE 2 1/2" SCHEDULE 40 PIPING.



KNOXBOX 3200

The KnoxBox 3200 is the number one high security key lock box trusted by first responders and property owners. Store up to 10 keys to quickly gain rapid access to commercial properties.

GENERAL MOUNTING INSTRUCTIONS

RECESS MOUNTING KIT INSTALLATION INSTRUCTIONS

ACCESSORIES

ORDERING SPECIFICATIONS

ABOUT KNOX COMPANY

KNOXBOX SPECIFICATIONS
N.T.S.

100/125kW, 1500Vdc String Inverters for North America

100/125kW, 1500Vdc String Inverters for North America

SOLAR INVERTER SPECIFICATIONS
N.T.S.

LR6-72BP 355~380M

Hi-MO2 High Efficiency Low LID Bifacial PERC Technology Best Solution for Lower LCOE

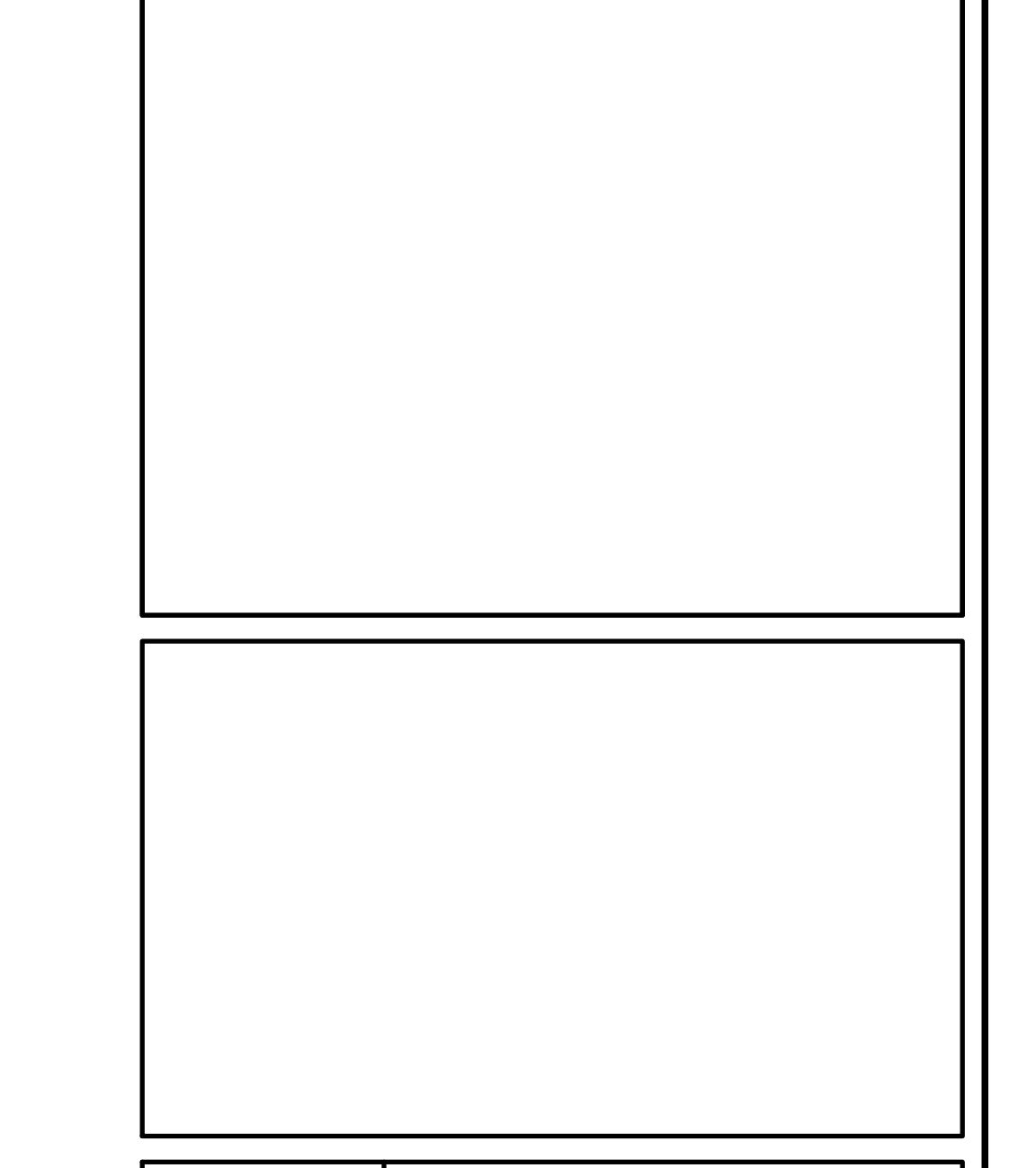
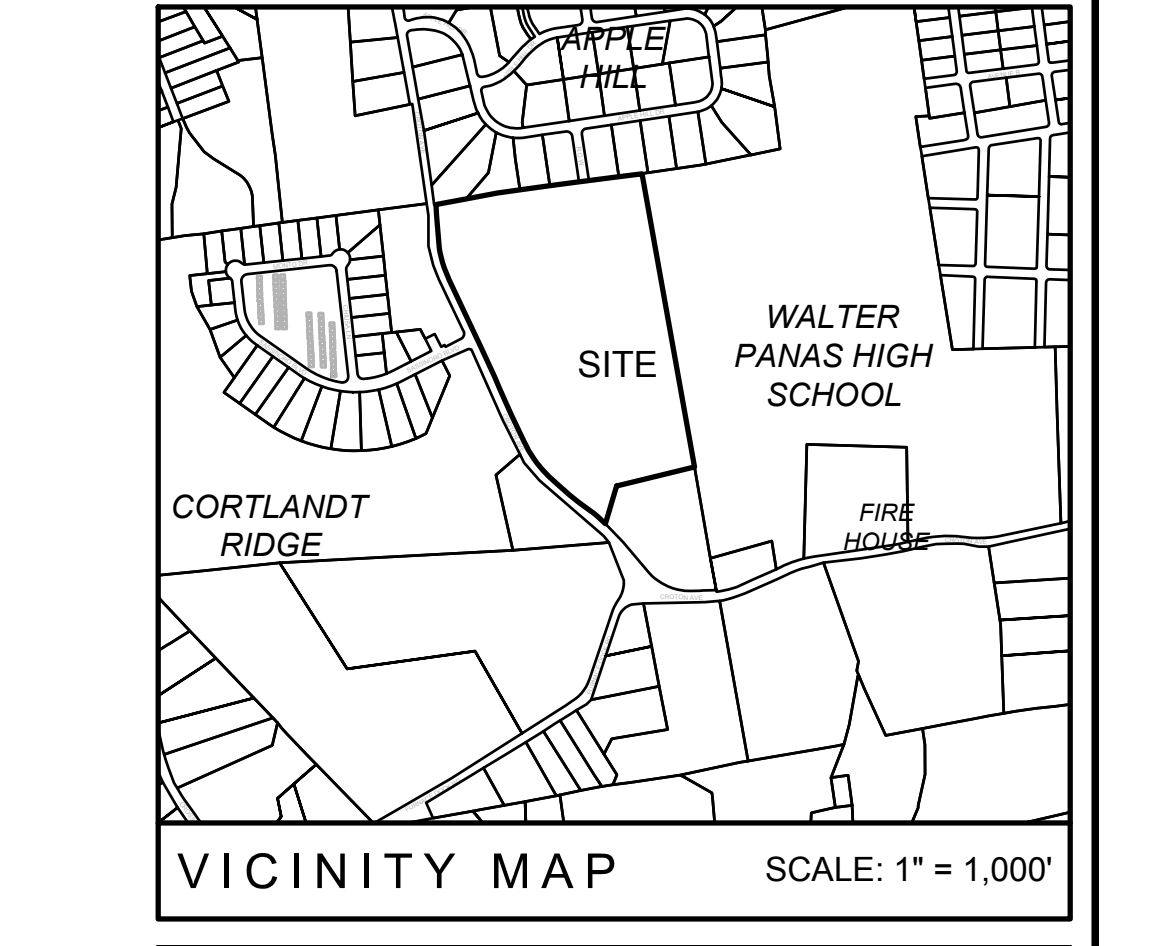
-0.45% 30-year Power Warranty

84.95% Efficiency

10-year Warranty for Materials and Processing
30-year Warranty for Extra Lower Power Output

LONGi Solar

SOLAR MODULE SPECIFICATIONS
N.T.S.



CROTON SOLAR, LLC
3280 PEACHTREE ROAD NE, 7TH FLOOR
ATLANTA, GA 30305

PROPERTY OWNER
CROTON REALTY & DEVELOPMENT, INC.
200 CROTON AVENUE
CORTLANDT MANOR, NY 10567

REVISIONS

#	REASON	DATE

MUNICIPAL TAX IDENTIFICATION:

SECTION: 34.14
BLOCK: 2
LOT: 28
SUBLOT:

DRAWN BY: KCSJCAKAA
CHECKED: KCS
PROJECT: DIMENSION
DATE: JULY 17, 2019
JOB #: 180605

TIMOTHY L. CROBIN III, P.E.
LICENSE #062980

CRONIN ENGINEERING
PROFESSIONAL ENGINEERING & CONSULTING
(914) 736-3664

39 ARLO LANE
CORTLANDT, NEW YORK 10567

CONSTRUCTION DETAILS

SITE DEVELOPMENT FOR CROTON SOLAR, LLC

LOCATION:
200 CROTON AVENUE
TOWN OF CORTLANDT, NEW YORK 10567

SHEET 7 OF 7 | **CD-6.1**