

# SARATOGA BIOCHAR SOLUTIONS, LLC

2-12 ELECTRIC DRIVE  
MOREAU, NEW YORK

## PREPARED FOR

SARATOGA BIOCHAR SOLUTIONS, LLC  
26 F CONGRESS ST. #346  
SARATOGA SPRINGS, NY 12866

## ZONING STATISTICS

TAX MAP ID: 50.-4-22 & 50.-4-16  
ZONE: GENERAL MANUFACTURING & INDUSTRIAL (M-I)  
ZONE ABBREV.: M-I  
LOT SIZE: 5.89 ACRES (TOTAL)

	REQUIRED	PROPOSED
FRONT YARD SETBACK	40 FT. MIN	±265 FT. (±134 FT PHASE 2/3)
SIDE YARD SETBACK	50 FT. MIN	±70 FT.
REAR YARD SETBACK	50 FT. MIN	±201 FT.
MAX LOT COVERAGE:	60%	43% (PHASE 1) 52% (PHASE 2/3 BUILD OUT)
MAX BLDG HEIGHT	60' FT.	±45 FT.

## PARKING STATISTICS

PROPOSED USE: GENERAL MANUFACTURING/INDUSTRIAL  
PARKING REQUIREMENTS: 1 PARKING SPACE / 400 SF GROSS FLOOR AREA  
REQUIRED SPACES: 80 SPACES FOR PROPOSED PHASE I BUILDING GFA  
PROPOSED SPACES: 80 SPACES (BASED ON ANTICIPATED EMPLOYEE USE)

## PROJECT LOCATION



## PROJECT TEAM

CIVIL ENGINEERING & LANDSCAPE ARCHITECT:  
STUDIO A | LANDSCAPE ARCHITECTURE, D.P.C.  
38 HIGH ROCK AVE SUITE 3 | P.O. BOX 272  
SARATOGA SPRINGS, NY 12866  
CONTACT: MATTHEW HUNTINGTON, PE/ KIRSTEN CATELLIER, RLA  
PHONE: 518.450.4030

## GENERAL NOTES

- PRIOR TO COMMENCING ANY WORK, CONTRACTOR SHALL CONTACT U.F.P.O. AND THE PROPER LOCAL AUTHORITIES TO CONFIRM THE LOCATION OF ALL EXISTING UTILITIES. ANY COSTS INCURRED BY THE CONTRACTOR FOR FAILURE TO CONTACT THE PROPER AUTHORITIES SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
- THE GENERAL CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS AND REPORT ANY DISCREPANCY BETWEEN THE PLANS AND THE FIELD CONDITIONS TO THE OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL VERIFY AND COORDINATE LOCATION OF ALL UTILITIES, INCLUDING BY NOT LIMITED TO LINES, DUCTS, CONDUITS, SLEEVES, FOOTINGS, ETC., WITH LOCATIONS OF PROPOSED SITE ELEMENTS. EXCAVATION REQUIRED PROXIMATE TO UTILITY LINES SHALL BE DONE BY HAND. ANY DAMAGE AND INCURRED COSTS DUE TO FAILURE OF THE CONTRACTOR TO ADHERE TO THESE GUIDELINES SHALL BE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL ESTABLISH PERMANENT BENCHMARKS PRIOR TO THE START OF CONSTRUCTION. ALL SECONDARY BENCHMARKS SHALL BE LOCATED SO THAT THEY WILL NOT BE DISTURBED DURING CONSTRUCTION.
- LIMITS OF DISTURBANCE IS NOTED ON DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE DUE TO OPERATIONS INSIDE AND OUTSIDE THE LIMITS OF DISTURBANCE. ANY AREAS OUTSIDE THE LIMITS OF DISTURBANCE THAT ARE DISTURBED SHALL BE RESTORED TO THE ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER. IF NO LIMITS OF DISTURBANCE IS SHOWN, PROPERTY LINE SHALL BE THE LIMITS OF DISTURBANCE.
- CONTRACTOR SHALL EMPLOY CARE IN SCHEDULING CONSTRUCTION SO AS TO MAINTAIN EXISTING VEHICULAR TRAFFIC PATTERNS AND MINIMIZE DISRUPTION TO SURROUNDING PEDESTRIAN TRAFFIC. CONTRACTOR SHALL EMPLOY SPECIAL CARE TO PROTECT SAFETY OF PEDESTRIANS INSIDE AND OUTSIDE OF THE LIMITS OF DISTURBANCE.
- VARIOUS PERMITS ARE REQUIRED FOR THIS PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL REQUIRED PERMITS FROM ALL JURISDICTIONS AFFECTED BY THIS WORK ARE IN PLACE PRIOR TO CONSTRUCTION.
- ALL ALTERATIONS TO THESE DRAWINGS MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE CONTRACTOR ON "AS-BUILT DRAWINGS," AS SPECIFIED.
- CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL EXISTING INFRASTRUCTURE FOR THE DURATION OF CONSTRUCTION.

## SHEET INDEX

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L-3.10	UTILITIES PLAN
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L-5.11	CONSTRUCTION DETAILS
L-6.10	PLANTING PLAN
L-7.10	LIGHTING PLAN

APPROVAL SET  
DOCUMENTS  
03/30/2022

studioA

STUDIO A  
LANDSCAPE ARCHITECTURE &  
ENGINEERING, DPC  
MAILING:  
PO BOX 272  
SARATOGA SPRINGS, NY 12866  
OFFICE LOCATION:  
38 HIGH ROCK AVE, SUITE 3  
SARATOGA SPRINGS, NY 12866  
(518) 450-4030

IF IT IS A VIOLATION OF THE NEW YORK STATE  
REGULATIONS FOR ANY PERSON, USING  
THESE DRAWINGS WITHOUT THE SUPERVISION OF A  
LICENSED PROFESSIONAL ENGINEER, ARCHITECT,  
OR LANDSCAPE ARCHITECT, OR LANDSCAPE  
ARCHITECT, TO ALTER ANY WORK OR ANY PART  
OF ANY WORK SHOWN THE STAMP OF A  
LICENSED PROFESSIONAL IS ALTERED THE  
ALTERING LICENSED PROFESSIONAL SHALL  
STAMP THE DOCUMENT AND INCLUDE THE  
NOTATION "ALTERED BY" FOLLOWED BY THEIR  
SIGNATURE, THE DATE OF SUCH ALTERATION,  
AND SPECIFIC DESCRIPTION OF THE  
ALTERATION.

DRAWINGS  
NOT FOR  
CONSTRUCTION

REVISIONS	DESCRIPTION	DATE



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26 F CONGRESS ST. #346  
SARATOGA SPRINGS, NY 12866

PROJECT  
SARATOGA BIOCHAR SOLUTIONS, LLC  
DRAWING TITLE  
COVER SHEET

DATE: 03/25/2022  
PROJECT NO.  
20019  
DRAWING NO.  
-0.00  
DWG 0 OF 9

REVISIONS	DESCRIPTION	DATE



PREPARED FOR  
**SARATOGA BIOCHAR SOLUTIONS, LLC**  
26 F CONGRESS ST. #346  
SARATOGA SPRINGS, NY 12866

PROJECT  
**SARATOGA BIOCHAR SOLUTIONS, LLC**  
DRAWING TITLE  
**EROSION & SEDIMENT CONTROL PLAN**  
DATE: 05/25/2022  
PROJECT NO.  
20019  
DRAWING NO.  
**L-0.10**  
DWG 1 OF 9

**SITE PREPARATION & DEMOLITION NOTES:**

- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND SUBSURFACE CONDITIONS PRIOR TO THE START OF WORK. COORDINATE ALL UTILITY REQUIREMENTS AND WORK WITH THE APPROPRIATE UTILITY PROVIDER. NOTIFY OWNER'S REPRESENTATIVE OF ANY AND ALL DISCREPANCIES.
- ALL REFUSE, DEBRIS AND MISCELLANEOUS ITEMS TO BE REMOVED. MATERIALS THAT ARE NOT TO BE STOCKPILED FOR LATER USE ON THE PROJECT OR DELIVERED TO THE OWNER, SHALL BE LEGALLY DISPOSED OF OFF-SITE BY THE CONTRACTOR IN A TIMELY FASHION SO AS NOT TO DISRUPT PROGRESS AND TO ENSURE SAFE SITE CONDITIONS.
- CONTRACTOR SHALL NOT REMOVE OR DISTURB ANY ITEMS KNOWN TO CONTAIN HAZARDOUS MATERIALS OR SUBSTANCES. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF HAZARDOUS MATERIALS OR SUBSTANCES DISCOVERED DURING THE COMPLETION OF SPECIFIED WORK.
- CONTRACTOR SHALL STRIP AND STOCKPILE EXISTING TOPSOIL TO FULL DEPTH WITHIN THE LIMIT OF GRADING BEFORE COMMENCING EXCAVATION AND GRADING OPERATIONS. TOPSOIL SHALL NOT BE REMOVED FROM THE SITE UNLESS APPROVED BY THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING CONDITIONS AND WHICH ARE OUTSIDE THE LIMIT OF WORK.
- CONTRACTOR SHALL IMPLEMENT AND BE RESPONSIBLE FOR ALL NECESSARY MEASURES AND PROCEDURES TO MAINTAIN AND PROTECT EXISTING UTILITIES TO REMAIN, PEDESTRIANS, LOCAL TRAFFIC AND ROADWAYS, ADJACENT PROPERTIES, AND ETC. FOR DURATION OF PROJECT AND UNTIL PROJECT COMPLETION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES AND/OR RESTORATION REQUIRED AS A RESULT OF DEFICIENT PROTECTION MEASURES.
- THE CONTRACTOR SHALL COORDINATE ALL ADJUSTMENT OR ABANDONMENT OF UTILITIES WITH THE RESPECTIVE UTILITY COMPANY AND PAY ALL ASSOCIATED COSTS IF APPLICABLE.
- ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS SHALL BE PROTECTED TO PREVENT HED ONTO PUBLIC WAYS. ANY HED ON PUBLIC WAYS ORIGINATING FROM THE JOB SITE SHALL BE CLEARED BY THE CONTRACTOR ONLY.
- CONTRACTOR SHALL BE REQUIRED TO SECURE ALL PERMITS THAT MAY BE REQUIRED FROM ALL JURISDICTIONS AFFECTED BY THIS WORK.
- CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES NOT TO BE REMOVED WHERE APPLICABLE.

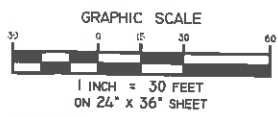
**EROSION & SEDIMENT CONTROL NOTES:**

- ALL EXPOSED SOIL DISTURBANCE SHALL BE IN ACCORDANCE WITH THE NYS DEC REQUIREMENTS. ANY EXPOSED SOIL SHALL BE PROPERLY STABILIZED WITH EITHER PERMANENT SEED AND MULCH UPON COMPLETION OF CONSTRUCTION, OR TEMPORARILY SEEDED AND MULCHED IF IT WILL BE MORE THAN 14 DAYS BEFORE ADDITIONAL SOIL DISTURBANCE WILL OCCUR. ALL DISTURBED AREAS STRIPPED OF VEGETATION SHALL BE REVEGETATED WITHIN 14 DAYS FROM THE SUBSTANTIAL COMPLETION OF CONSTRUCTION OR CLEARING ACTIVITIES.
- THE CONTRACTOR SHALL LIMIT THE AREA OF CLEARING AND GRUBBING, EXCAVATION, BORROW, AND EMBANKMENT OPERATIONS IN PROGRESS, COMMENSURATE WITH THEIR CAPABILITY AND PROGRESS IN KEEPING THE FINISH GRADING AND MULCHING, SEEDING AND OTHER TEMPORARY AND/OR PERMANENT CONTROL MEASURES IN ACCORDANCE WITH THESE PLANS.
- THE CONTRACTOR SHALL DESIGNATE TO THE OWNER'S REPRESENTATIVE A QUALIFIED EROSION AND SEDIMENT CONTROL SUPERVISOR WITH ADEQUATE TRAINING, EXPERIENCE, AND AUTHORITY TO IMPLEMENT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES AS PER THE NYS DEC REQUIREMENTS.
- CONSTRUCTION IS TO PROCEED IN ACCORDANCE WITH THE CONSTRUCTION PHASING SCHEDULE SUPPLIED BY THE CONTRACTOR OR SHOWN ON THE PLANS. GRASSES SHALL BE ESTABLISHED ON ALL DISTURBED AREAS AS SOON AS POSSIBLE. FOR TIME FRAMES OUTSIDE THE GROWING SEASON, OTHER METHODS OF SOIL STABILIZATION (SUCH AS THE USE OF JUTE MESH EXCELSIOR MATTING) WILL BE USED UNTIL SUCH A TIME AS GRASS CAN BE ESTABLISHED.
- ALL APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE PRIOR TO ANY SITE DISTURBANCE. THIS INCLUDES GRADING OPERATIONS, UTILITY OR STRUCTURE INSTALL.
- SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH NYS DEC REQUIREMENTS.
- APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE UNTIL THE CONTRIBUTING DRAINAGE AREA SERVED IS STABILIZED.
- THE CONTRACTOR SHALL PERFORM ALL WORK, FURNISH ALL MATERIALS AND INSTALL ALL MEASURES REQUIRED TO REASONABLY CONTROL SOIL EROSION RESULTING FROM CONSTRUCTION OPERATIONS AND PREVENT EXCESSIVE FLOW OF SEDIMENT FROM THE CONSTRUCTION SITE.
- THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
- ALL SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED AFTER EVERY STORM EVENT.
- THE CONTRACTORS ATTENTION IS DIRECTED TO THE FACT THAT THROUGHOUT THE DURATION OF THE PROJECT IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL WATER COURSES FROM WATER BORNE SEDIMENT OR POLLUTANTS ORIGINATING FROM ANY WORK DONE ON, OR IN SUPPORT OF THIS PROJECT.
- ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PREVENT CONTAMINATION OF NEARBY WATERBODIES OR STORM SEWER SYSTEMS BY SILT, SEDIMENT, FUELS, SOLVENTS, LUBRICANTS, EPOXY COATINGS, CONCRETE LEACHATE, OR ANY OTHER POLLUTANT ASSOCIATED WITH CONSTRUCTION AND CONSTRUCTION PROCEDURES.
- NOTE: DROP INLET PROTECTION TO BE INCLUDED AT ALL NEW CATCH BASINS AND AT ALL CATCH BASINS TO REMAIN IF APPLICABLE.

**LEGEND:**

- PROPERTY LINE
- PROPERTY LINE SETBACK
- SF SILT FENCE
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- STABILIZED CONSTRUCTION ENTRANCE
- PHASE 1 LIMITS OF DISTURBANCE
- PHASE 2/3 LIMITS OF DISTURBANCE
- TREE PROTECTION FENCE
- PROPOSED CONTOUR
- 1-4 APPROX. LOCATION OF INFILTRATION TEST\*
- B-6 APPROX. LOCATION OF BORING\*

\*SEE PROJECT SWPPP FOR TEST RESULTS

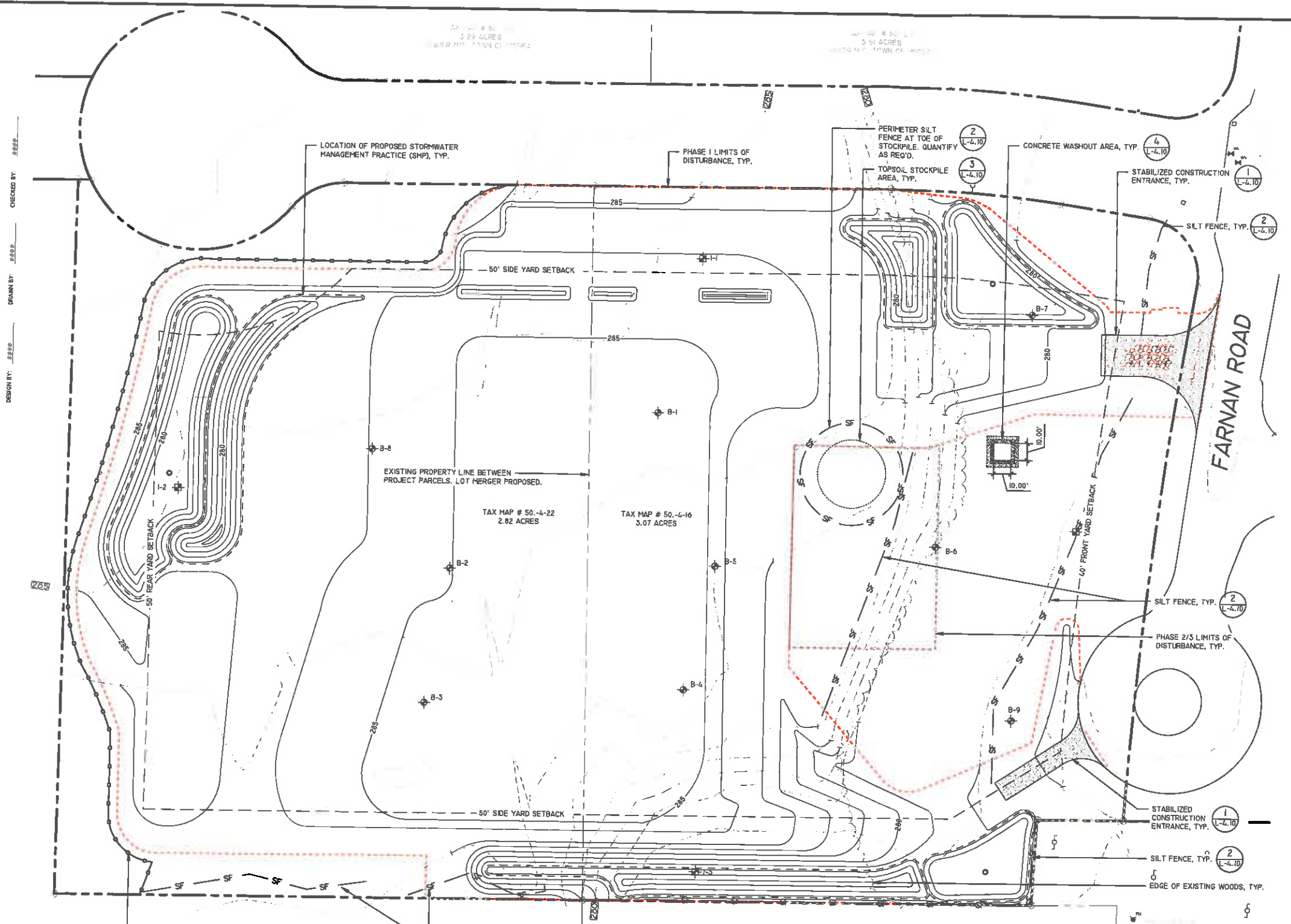


**NOTE: LIMITS OF DISTURBANCE**  
PHASE 1: 492,301 SF  
PHASE 2/3: 410,015 SF

**NOTE: ALL SMP AREAS SHALL BE PROTECTED FROM HEAVY CONSTRUCTION EQUIPMENT TRAFFIC.**

**MAP REFERENCE:**  
BASE MAP INFORMATION OBTAINED FROM "MAP OF TOPOGRAPHIC SURVEY MADE FOR NORTHEAST BIOCHAR SOLUTIONS, INC., TOWN OF MOREAU, SARATOGA COUNTY, NEW YORK" PREPARED BY VAN DUSEN & STEVES SURVEYORS, DATED JULY 24, 2021.

**DISCLAIMER:**  
THIS PLAN SET WAS DRAFTED WITHOUT THE BENEFIT OF "DIG SAFE" MARKINGS. UTILITIES SHOWN ARE NOT WARRANTED TO BE EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT "DIG SAFE" AT 811 BEFORE COMMENCING ANY WORK AND SHALL PRESERVE EXISTING UTILITIES WHICH ARE NOT SPECIFIED TO BE REMOVED IN THIS PLAN SET.



CHECKED BY: *[Signature]*  
DRAWN BY: *[Signature]*  
DESIGN BY: *[Signature]*

LOCATION OF PROPOSED STORMWATER MANAGEMENT PRACTICE (SMP), TYP.

PHASE 1 LIMITS OF DISTURBANCE, TYP.

PERIMETER SILT FENCE AT TOE OF STOCKPILE, QUANTIFY AS REQ'D.

TOPSOIL STOCKPILE AREA, TYP.

CONCRETE WASHOUT AREA, TYP.

STABILIZED CONSTRUCTION ENTRANCE, TYP.

SILT FENCE, TYP.

50' SIDE YARD SETBACK

50' REAR YARD SETBACK

EXISTING PROPERTY LINE BETWEEN PROJECT PARCELS. LOT MERGER PROPOSED.

TAX MAP # 50-4-22  
2.02 ACRES

TAX MAP # 50-4-16  
3.07 ACRES

50' FRONT YARD SETBACK

PHASE 2/3 LIMITS OF DISTURBANCE, TYP.

SILT FENCE, TYP.

STABILIZED CONSTRUCTION ENTRANCE, TYP.

SILT FENCE, TYP.

EDGE OF EXISTING WOODS, TYP.

50' SIDE YARD SETBACK

TAX MAP # 50-4-25  
3.05 ACRES  
OWNER: N.F. MOREAU INDUSTRIAL PARK LLC

TAX MAP # 50-4-14  
2.86 ACRES  
OWNER: N.F. MOREAU INDUSTRIAL PARK LLC

TREE PROTECTION FENCE, TYP.

1-2

B-1

B-2

B-3

B-4

B-5

B-6

B-7

B-8

B-9



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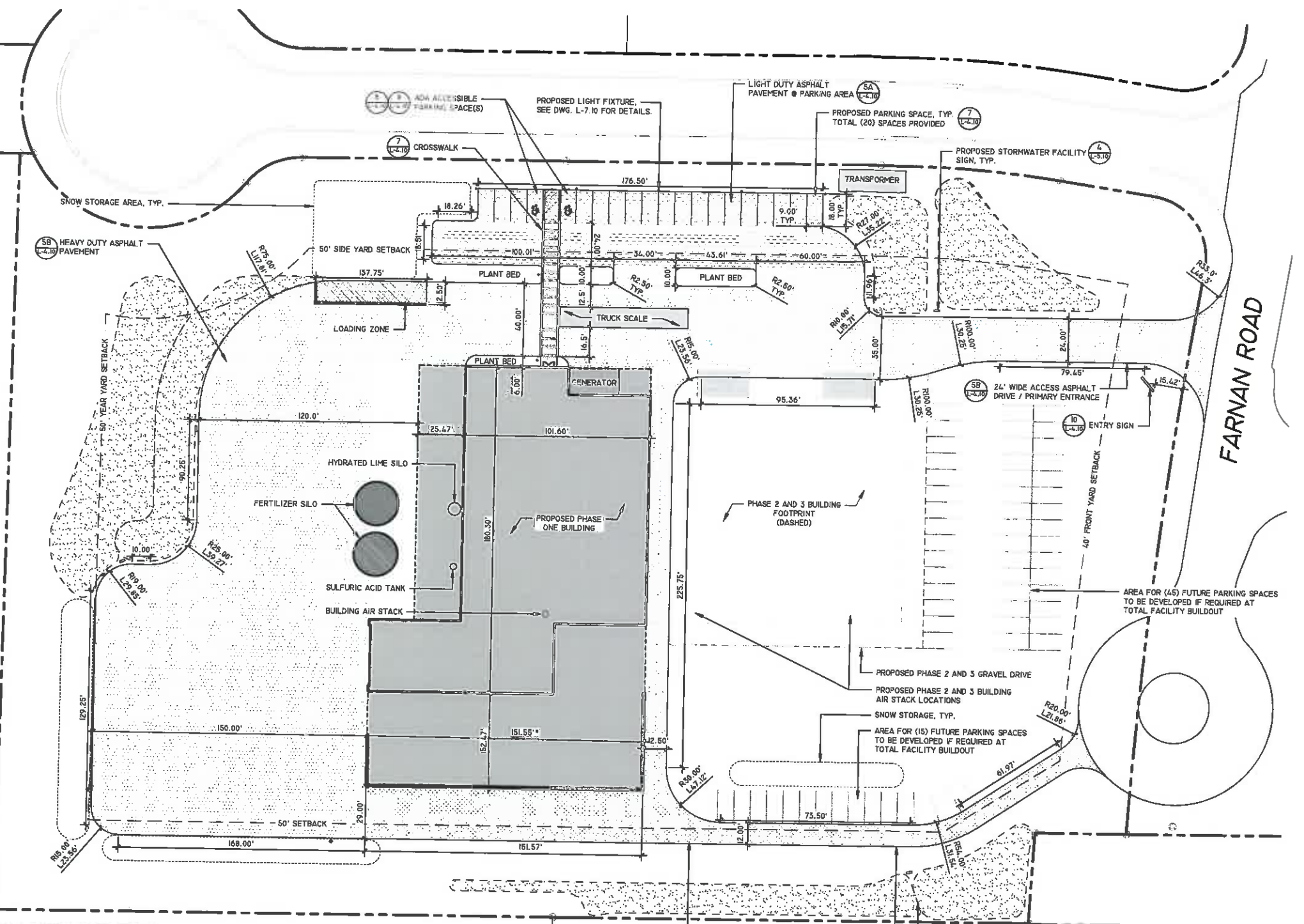


PREPARED FOR  
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26 F CONGRESS ST. #346  
SARATOGA SPRINGS, NY 12866

PROJECT  
**SARATOGA BIOCHAR SOLUTIONS, LLC**  
DRAWING TITLE  
**LAYOUT PLAN**  
DATE: 03/25/2022  
PROJECT NO.  
20019  
DRAWING NO.  
**L-1.10**

**LAYOUT NOTES:**

1. VERIFY LOCATION OF ALL BUILDINGS, WALLS, ROADS AND CURBS AFFECTING SCOPE OF WORK.
2. VERIFY LOCATION OF ALL VAULTS, ELECTRICAL DUCT BANKS, MANHOLES, CONDUIT AND PIPING, DRAINAGE STRUCTURES AND OTHER UTILITIES WITH THE APPROPRIATE ENGINEERING DRAWINGS. NOTIFY ENGINEER OF ANY CONFLICTS WITH ENGINEER SCOPE.
3. TAKE ALL DIMENSIONS FROM FACE OF GRAVEL PARKING AREA OR BUILDING TO CENTERLINE OF DRIVE OR TREES UNLESS OTHERWISE NOTED.
4. ALL ANGLES TO BE 90 DEGREES AND ALL LINES OF PAVING AND FENCING TO BE PARALLEL UNLESS NOTED OTHERWISE. MAINTAIN HORIZONTAL ALIGNMENT OF ADJACENT ELEMENTS AS NOTED ON THE DRAWINGS.
5. REFERENCE TO NORTH REFERS TO PLAN NORTH, REFERENCE TO SCALE IS FOR FULL-SIZED DRAWINGS ONLY. DO NOT SCALE FROM REDUCED DRAWINGS.



\*NOTE: SEE ARCHITECTURAL PLANS FOR DETAILS BUILDING DIMENSIONS

**LEGEND:**

- PROPERTY LINE
- PROPERTY LINE SETBACK
- LIMITS OF DISTURBANCE
- PROPOSED HEAVY DUTY ASPHALT SURFACE
- PROPOSED LIGHT DUTY ASPHALT SURFACE
- PROPOSED GRAVEL SURFACE
- PROPOSED STORMWATER PRACTICES
- PROPOSED LIGHT FIXTURES
- PROPOSED SNOW STORAGE AREA

**GRAPHIC SCALE**  
1 INCH = 30 FEET  
ON 24" x 36" SHEET

**DATE:** 03/25/2022  
**PROJECT NO.:** 20019  
**DRAWING NO.:** L-1.10  
**DWG 2 OF 9**

ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM THE ARCHITECT. THE ARCHITECT'S LIABILITY IS LIMITED TO THE PROFESSIONAL SERVICES PROVIDED HEREIN. THE ARCHITECT DOES NOT WARRANT THE ACCURACY OF ANY INFORMATION OBTAINED FROM THIS SET OF DRAWINGS. THE CONTRACTOR SHALL CONTACT THE ARCHITECT AT 800 BEFORE COMMENCING ANY WORK AND SHALL PRESERVE EXISTING UTILITIES WHICH ARE NOT SPECIFIED TO BE REMOVED IN THIS PLAN SET.

IF IN A SITUATION OF NEW YORK STATE  
EDUCATION LAW FOR ANY PERSON, UNLESS  
OTHERWISE ACTUALLY SPECIFIED BY A  
LICENSED PROFESSIONAL ENGINEER  
OR ARCHITECT, LANDSCAPE ARCHITECT, OR  
SURVEYOR, TO ALTER ANY VIEW OR ANY  
OTHER BEARING THE STAMP OF A  
LICENSED PROFESSIONAL SHALL BE  
CONSIDERED UNLAWFUL. IN ADDITION, THE  
PLANETS ALTERED BY THESE  
REVISIONS SHALL BE IDENTIFIED BY A  
SPECIFIC DESCRIPTION OF THE  
ALTERATION.

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REVISIONS	DESCRIPTION	DATE



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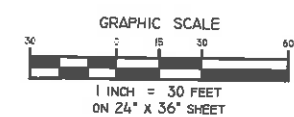
PROJECT  
**SARATOGA BIOCHAR SOLUTIONS, LLC**  
DRAWING TITLE  
**GRADING & DRAINAGE PLAN**  
DATE: 05/25/2022  
PROJECT NO.  
20019  
DRAWING NO.  
**L-2.10**  
DWG 3 OF 9

**EARTHWORK NOTES:**

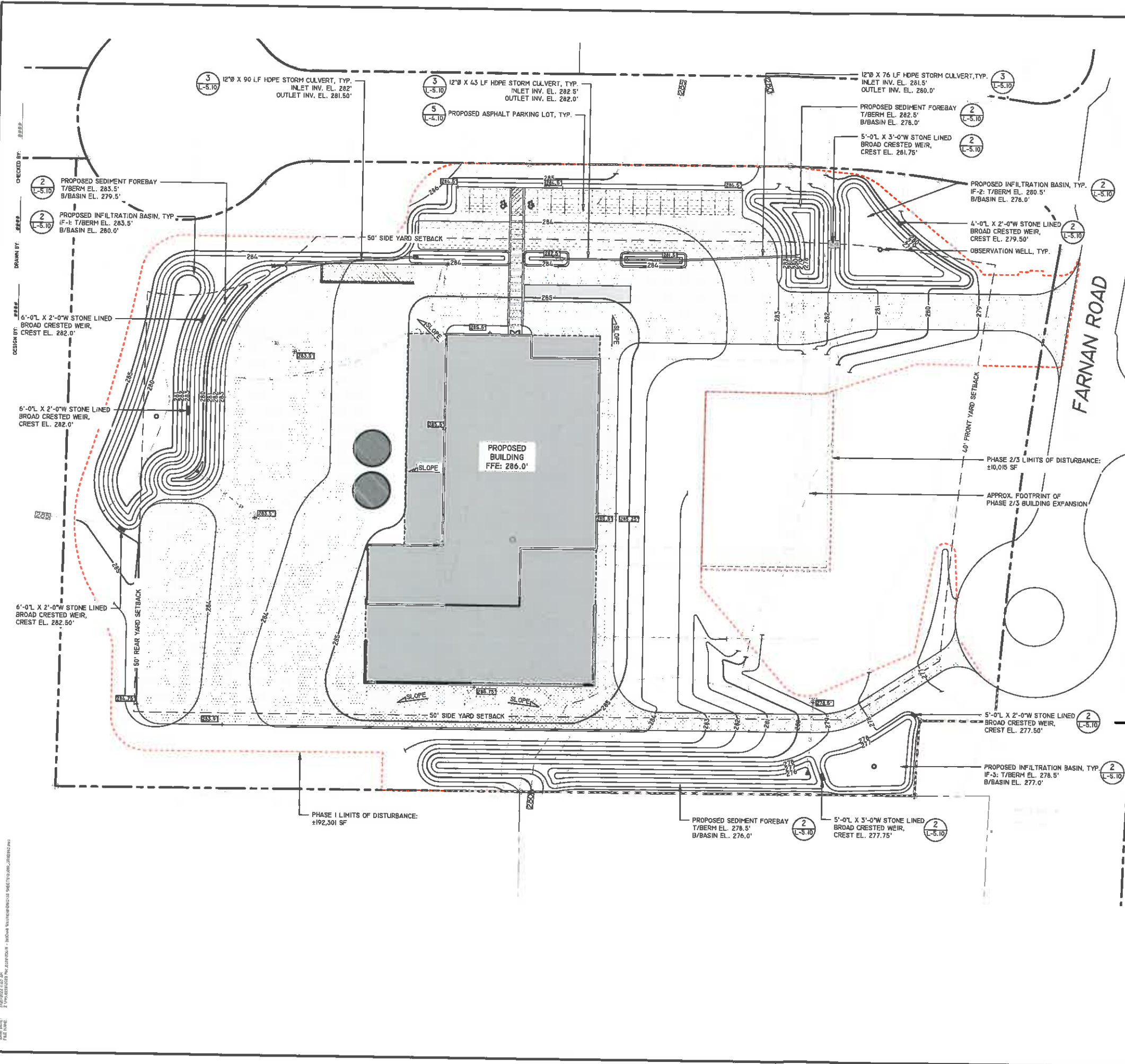
- BEFORE ANY LAND CLEARING IS COMPLETED, THE CONTRACTOR SHALL ARRANGE A MEETING ON SITE WITH THE OWNER'S REPRESENTATIVE TO IDENTIFY WHICH TREES ARE TO BE PROTECTED OR REMOVED. NO CLEARING SHALL OCCUR WITHOUT A CLEAR UNDERSTANDING OF THE EXISTING CONDITIONS TO BE PRESERVED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES AND PLANTS DESIGNATED TO REMAIN FOR THE LENGTH OF THE CONSTRUCTION PERIOD. THE PLACEMENT OF PROTECTION DEVICES ADDITIONAL TO THOSE NOTED SHALL, HOWEVER, BE AT THE CONTRACTOR'S DISCRETION. VEHICLES SHALL NOT BE PARKED WITHIN THE DRIP LINE OR WHERE DAMAGE MAY RESULT TO TREES TO BE KEPT. CONSTRUCTION MATERIALS SHALL NOT BE STORED BENEATH TREES TO BE KEPT.
- ALL TEMPORARY EROSION AND SEDIMENT (E&S) CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY EARTH DISTURBANCE. E&S CONTROL DEVICES SHALL BE REGULARLY INSPECTED AND MAINTAINED AS NEEDED TO ENSURE SATISFACTORY PERFORMANCE. ANY DAMAGE OCCURRING DURING THE COURSE OF CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. ASSOCIATED FINES RESULTING FROM SUCH DAMAGE SHALL ALSO BE PAID BY THE CONTRACTOR.
- ALL PROPOSED GRADES SET IN THE FIELD TO BE COMPLETED BY A NEW YORK STATE LICENSED SURVEYOR.
- ALL AREAS REQUIRING FILL SHALL BE BROUGHT TO REQUIRED GRADE IN A MAXIMUM OF 12" COMPACTED LIFTS.
- ALL SLOPES 3:1 AND GREATER SHALL BE STABILIZED WITH SLOPE STABILIZATION MATS. LOCATIONS AND METHODS TO BE APPROVED BY THE OWNER'S REPRESENTATIVE.
- PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MINIMUM SLOPE OF ONE-EIGHTH (1/8") PER FOOT. ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE IMMEDIATELY BEFORE CONTINUING WORK.
- EXCAVATION REQUIRED WITHIN 3 FEET OF EXISTING UTILITY LINE SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY INTO EXISTING GRADE, PROVIDING VERTICAL CURVES OR ROUNDINGS AT THE TOP AND BOTTOM OF ALL SLOPES.
- DURING GRADING OPERATIONS, DRAINAGE OF THE SITE AND ADJACENT AREAS SHALL BE MAINTAINED CONTINUOUSLY TO PREVENT EROSION OR OTHER DAMAGE. WHEN IT IS NECESSARY TO INTERRUPT DRAINAGE OR OTHER EXISTING UTILITIES, CONTRACTOR IS TO PROVIDE TEMPORARY FACILITIES UNTIL PERMANENT WORK IS COMPLETED AT NO COST TO THE OWNER.
- GRADE AREAS ADJACENT TO BUILDING LINES TO DRAIN AWAY FROM STRUCTURE TO PREVENT PONDING. FINISHED SURFACES SHALL BE FREE FROM ANY ABRUPT OR IRREGULAR CHANGES.
- EXCAVATION REQUIRED WITHIN DRIP LINE OF TREES DESIGNATED TO REMAIN SHALL BE DONE BY HAND SO THAT NO DAMAGE OCCURS EXISTING ROOT SYSTEM. PLANT MATERIALS DAMAGED BY CONTRACTOR SHALL BE REPLACED IN KIND AT NO ADDITIONAL EXPENSE TO THE OWNER.
- EXCAVATION SHALL BE TO ELEVATIONS INDICATED WITH A TOLERANCE OF ± 1".
- SUBBASE COURSE MATERIAL SHALL CONFORM TO NYS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 504, TYPE 2 AND SHALL CONFORM TO MIN 95% MODIFIED PROCTOR DENSITY. BACKFILL MATERIAL SHALL BE COMPACTED ON SITE SOIL MATERIAL.
- EMBANKMENT FILL SHALL CONFORM WITH ALL REQUIREMENTS OF NYS DOT SPEC. SECTION 203. MAXIMUM ALLOWABLE LOOSE LIFTS FOR EMBANKMENTS SHALL BE 12 INCH AND SHALL BE COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM DENSITY AS ESTABLISHED THROUGH THE STANDARD PROCTOR COMPACTION TEST PER ASTM D698.
- MATERIAL STOCKPILES, IF REQUIRED, SHALL BE LOCATED WHOLLY WITHIN THE WORK AREA. ADDITIONAL SILT FENCES SHALL BE PROVIDED AT THE BASE OF ALL STOCKPILES AS DIRECTED IN THE FIELD BY THE ENGINEER.
- ALL TRENCHES AND OTHER EXCAVATION SIDE SLOPES INDICATED ON THE DRAWINGS ARE DIAGNOSTIC ONLY AND ARE NOT INTENDED TO INDICATE A STABLE EXCAVATION SLOPE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY AND STABILITY OF ALL EXCAVATION SLOPES, SHEETING, SHORING, TRENCH BOXES, AND ANY OTHER MEANS REQUIRED FOR A SAFE WORK ENVIRONMENT AND FOR PROTECTION OF ADJACENT ROADWAYS AND OTHER STRUCTURES. ALL EXCAVATION WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING REGULATORY AGENCIES:  
- SUBPART 23-4, "EXCAVATION OPERATIONS", OF NEW YORK DEPARTMENT OF LABOR INDUSTRIAL CODE RULE 23.  
- SUBPART P, "EXCAVATIONS" OF THE UNITED STATES DEPARTMENT OF LABOR OSHA REGULATIONS FOR CONSTRUCTION.  
- ALL OTHER MUNICIPAL, COUNTY, STATE OR FEDERAL AGENCIES, REGULATIONS OR LAWS PERTAINING TO EXCAVATION SAFETY AS MAY APPLY AT THE WORK SITE.  
- THE MORE STRINGENT PROVISION IN EACH OF THE ABOVE CODES SHALL APPLY. THESE PROVISIONS SHALL BE CONSIDERED MINIMUM REQUIREMENTS AND SHALL BE INCREASED IF NECESSARY TO PROVIDE SAFE WORKING CONDITIONS.
- CRUSHED STONE, WHERE CALLED FOR ON THE DRAWINGS, SHALL CONFORM TO NYS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 705-02, SIZE DESIGNATION 2.
- ALL SILT FENCES SHALL BE INSTALLED PRIOR TO DISTURBANCE OF EXISTING SITE FINISHES AND SHALL REMAIN IN PLACE UNTIL A STABLE GROWTH OF TURF IS ESTABLISHED.
- ALL DISTURBED AREAS NOT COVERED WITH SITE IMPROVEMENTS OR LANDSCAPING SHALL BE COVERED WITH 6" OF TOPSOIL AND SEEDED TO ESTABLISH A DENSE GROWTH OF TURF. PRIOR TO APPLYING TOPSOIL, DISTURBED AREAS SHALL BE RESTORED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 5.1.6 "SOIL RESTORATION" OF THE NYSDEC STORMWATER DESIGN MANUAL.

**LEGEND:**

- PROPERTY LINE
- - - PROPERTY LINE SETBACK
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- 660 PROPOSED MAJOR CONTOURS
- 662 PROPOSED MINOR CONTOURS
- 396.5 PROPOSED SPOT GRADES
- PHASE I LIMITS OF DISTURBANCE
- PHASE 2/3 LIMITS OF DISTURBANCE



MAP REFERENCE:  
BASE MAP INFORMATION OBTAINED FROM "MAP OF TOPOGRAPHIC SURVEY MADE FOR NORTHEAST BIOCHAR SOLUTIONS, INC., TOWN OF MOREAU, SARATOGA COUNTY, NEW YORK", PREPARED BY VAN DUSEN & STEVES SURVEYORS, DATED JULY 24, 2021.  
**DISCLAIMER:**  
THIS PLAN SET HAS BEEN DRAFTED WITHOUT THE BENEFIT OF "DIG SAFE" MARKINGS, UTILITIES SHOWN ARE NOT WARRANTED TO BE EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT "DIG SAFE" AT 811 BEFORE COMMENCING ANY WORK AND SHALL PRESERVE EXISTING UTILITIES WHICH ARE NOT SPECIFIED TO BE REMOVED IN THIS PLAN SET.



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 www.studioa.com



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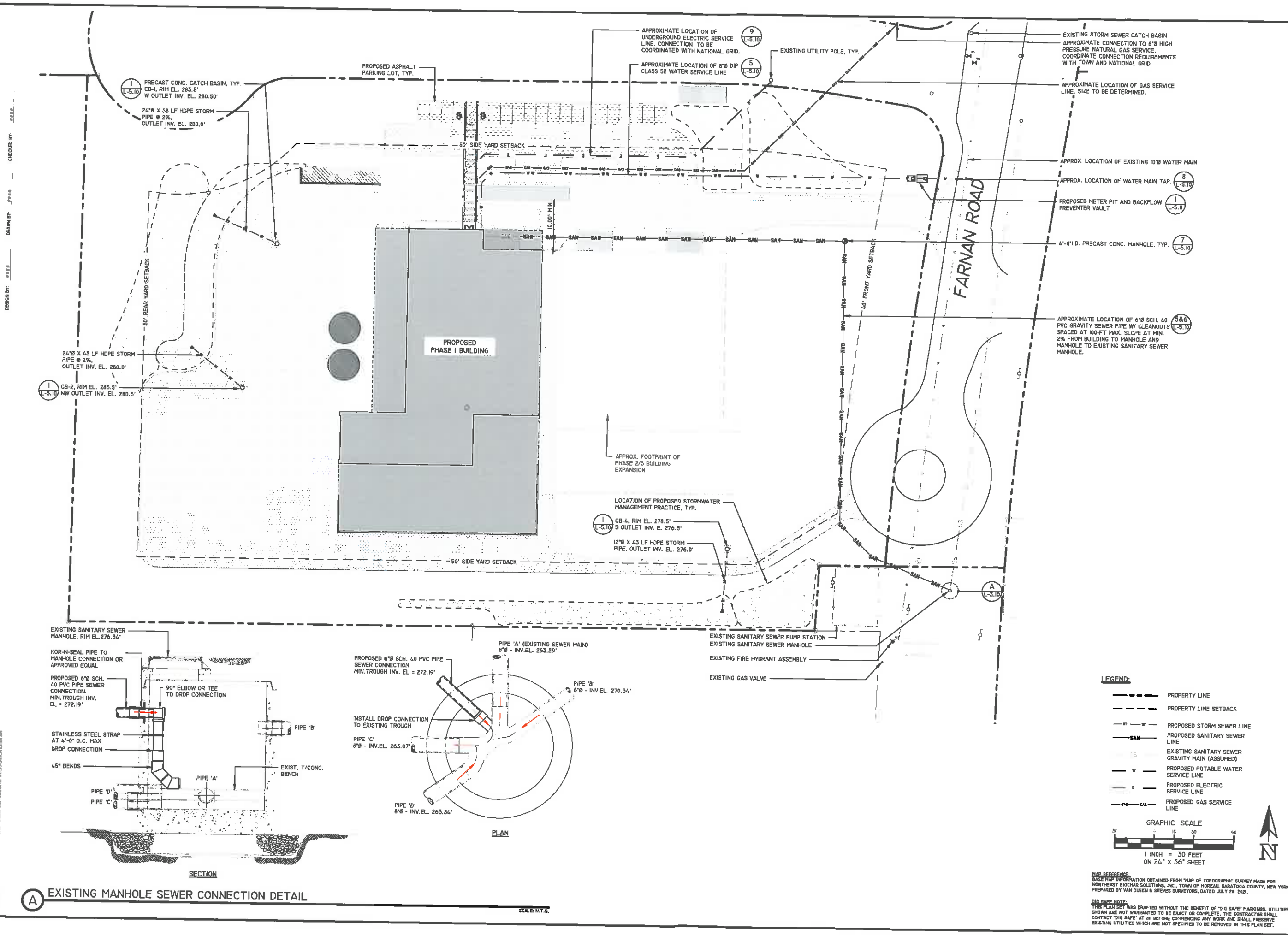
**DRAWINGS NOT FOR CONSTRUCTION**

REVISIONS	DATE	DESCRIPTION



PREPARED FOR  
**SARATOGA BIOCHAR SOLUTIONS, LLC**  
 26 F CONGRESS ST. #346  
 SARATOGA SPRINGS, NY 12866

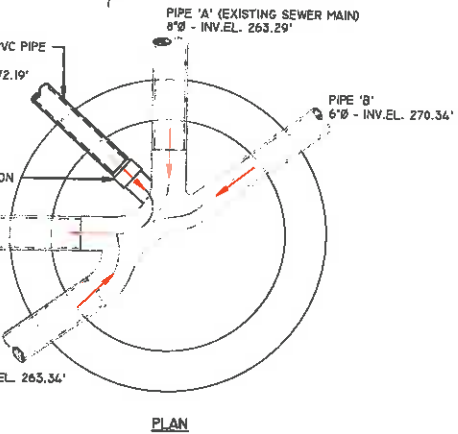
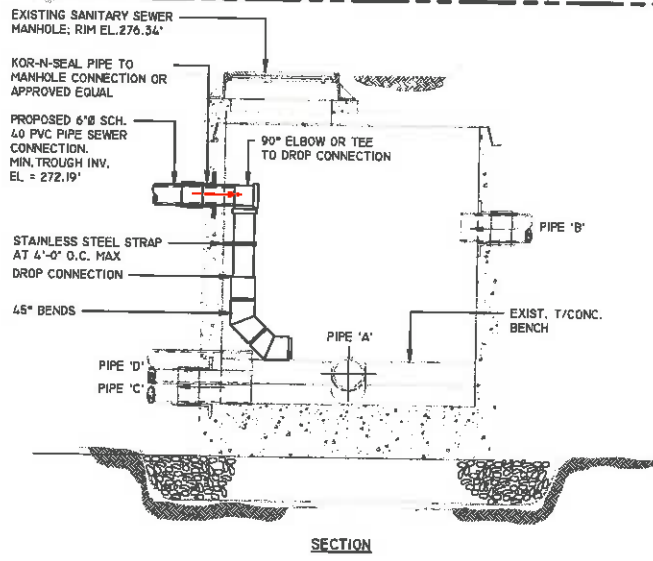
PROJECT: **SARATOGA BIOCHAR SOLUTIONS, LLC**  
 DRAWING TITLE: **UTILITIES PLAN**  
 DATE: 03/25/2022  
 PROJECT NO.: 20019  
 DRAWING NO.: **L-3.10**  
 DWG 4 OF 9



**LEGEND:**

- PROPERTY LINE
- - - PROPERTY LINE SETBACK
- - - PROPOSED STORM SEWER LINE
- - - PROPOSED SANITARY SEWER LINE
- - - EXISTING SANITARY SEWER GRAVITY MAIN (ASSUMED)
- - - PROPOSED POTABLE WATER SERVICE LINE
- - - PROPOSED ELECTRIC SERVICE LINE
- - - PROPOSED GAS SERVICE LINE

**GRAPHIC SCALE**  
 1 INCH = 30 FEET  
 ON 24" x 36" SHEET



DESIGN BY: JESSIE  
 DRAWN BY: JESSIE  
 CHECKED BY: JESSIE

**A EXISTING MANHOLE SEWER CONNECTION DETAIL**

SCALE: N.T.S.

**NOT BE RESPONSIBLE:**  
 BASE MAP INFORMATION OBTAINED FROM "MAP OF TOPOGRAPHIC SURVEY MADE FOR NORTHEAST BIOCHAR SOLUTIONS, INC., TOWN OF MOREAU, SARATOGA COUNTY, NEW YORK" PREPARED BY VAN DUSEN & STEVES SURVEYORS, DATED JULY 28, 2021.

**DIG SAFE NOTE:**  
 THIS PLAN SET WAS DRAFTED WITHOUT THE BENEFIT OF "DIG SAFE" MARKINGS. UTILITIES SHOWN ARE NOT WARRANTED TO BE EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT "DIG SAFE" AT ALL BEFORE COMMENCING ANY WORK AND SHALL PRESERVE EXISTING UTILITIES WHICH ARE NOT SPECIFIED TO BE REMOVED IN THIS PLAN SET.

IF IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON (EXCEPT THE ARCHITECT) TO PREPARE ARCHITECTURAL DRAWINGS OR SPECIFICATIONS WITHOUT THE SIGNATURE OF A LICENSED PROFESSIONAL ENGINEER OR ARCHITECT, THE ARCHITECT SHALL BE RESPONSIBLE FOR THE VIOLATION. THE ARCHITECT'S LIABILITY SHALL NOT BE LIMITED BY THIS STATEMENT.

**DRAWINGS NOT FOR CONSTRUCTION**

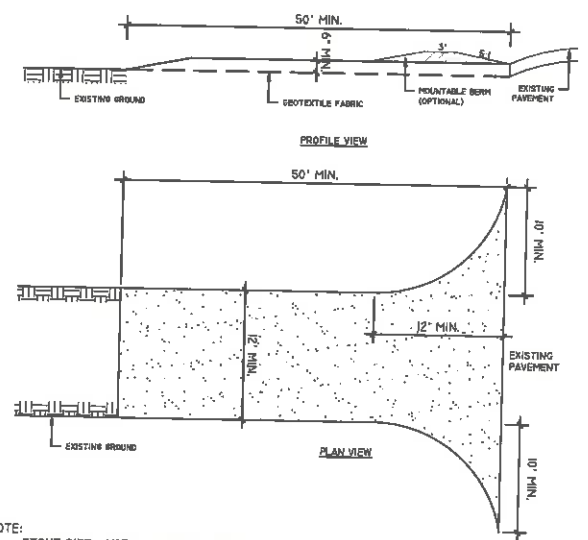
REVISIONS	DESCRIPTION	DATE

**northeastern BIOCHAR SOLUTIONS WASTE NOT**

PREPARED FOR  
**SARATOGA BIOCHAR SOLUTIONS, LLC**  
26 F CONGRESS ST. #346  
SARATOGA SPRINGS, NY 12866

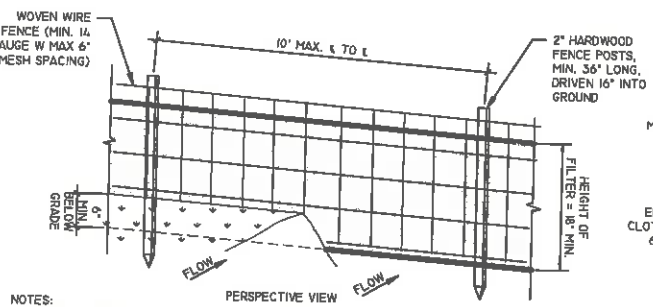
PROJECT  
**SARATOGA BIOCHAR SOLUTIONS, LLC**  
DRAWING TITLE  
**CONSTRUCTION DETAILS**

DATE: 03/25/2022  
PROJECT NO.: 2019  
DRAWING NO.: L-4.10  
DWG 5 OF 9



- NOTE:**
- STONE SIZE - USE 1" - 4" TYPE 3 STONE.
  - LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH WOULD APPLY).
  - THICKNESS - NOT LESS THAN 6".
  - WIDTH - 12 FEET MINIMUM, BUT NOT LESS THAN THE FULL WIDTH WHERE INGRESS AND EGRESS OCCUR. 24 FEET IF SINGLE ENTRANCE TO THE SITE.
  - GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.
  - SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH A 5:1 SLOPE WILL BE PERMITTED.
  - MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF WAY MUST BE REMOVED IMMEDIATELY.
  - WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
  - PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

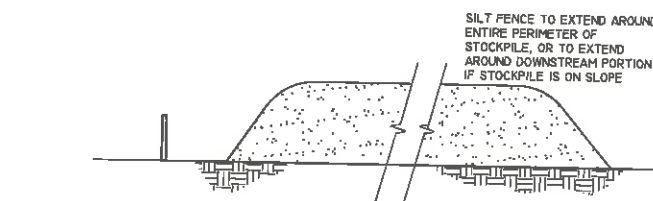
**1 STABILIZED CONSTRUCTION ENTRANCE DETAIL**  
SCALE: N.T.S.



- NOTE:**
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "J" OR "U" TYPE HARDWOOD.
  - FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 36" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAX MESH OPENING.
  - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FIXTER X, MARAFI 100X, STABILINKA T140N OR APPROVE EQUIVALENT IF USING THE WOVEN WIRE FENCE. IF THE WOVEN WIRE FENCE IS NOT USED, FILTER FABRIC MUST BE NYS DOT APPROVED MATERIAL LIST FOR SILT FENCE, UNSUPPORTED 1.2M POST SPACING

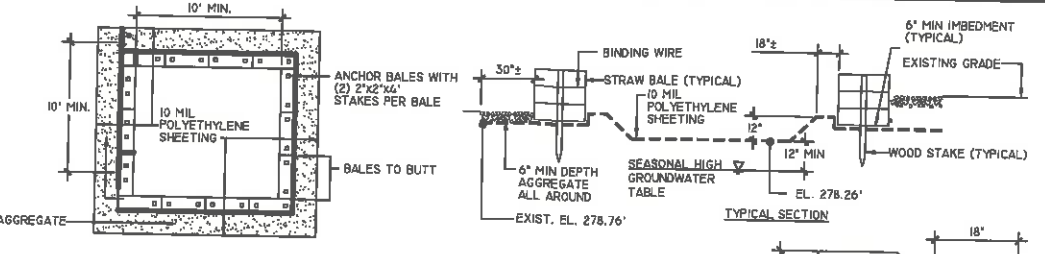
SLOPE	STANDARD FENCE	REINFORCED FENCE	SUPER
<2%	300 / 1500	NA	NA
2%-10%	125 / 1000	250 / 2000	300 / 2500
10-20%	100 / 750	150 / 1000	200 / 1000
20%-33%	60 / 500	80 / 750	100 / 1000

**2 SILT FENCE DETAIL**  
SCALE: N.T.S.



- NOTE:**
- REFERENCE IS MADE TO THE SILT FENCE DETAIL FOR MATERIALS AND INSTALLATION METHODS.
  - IF THE STOCKPILE IS TO REMAIN FOR MORE THAN 10 DAYS, IT SHALL BE STABILIZED WITH BURLAP MATTING OR SEEDED WITHIN 7 DAYS OF COMPLETION TO MINIMIZE EROSION.
  - INSPECTION OF SILT FENCES SHALL BE AT LEAST ONCE PER WEEK OR AFTER SUBSTANTIAL RAINFALL. REPAIR OR REPLACE DEFICIENCIES IMMEDIATELY.
  - SILT FENCES SHALL BE MAINTAINED IN PLACE UNTIL TOPSOIL STOCKPILE HAS BEEN ELIMINATED AND SHALL BE REMOVED ONLY WHEN DIRECTED BY TOWN OR ENGINEER.

**3 TOPSOIL STOCKPILE DETAIL**  
SCALE: N.T.S.



**CAPACITY:**  
THE WASHOUT FACILITY SHALL BE SIZED TO CONTAIN SOLIDS, WASH WATER, AND RAINFALL SIZED TO ALLOW FOR EVAPORATION OF WASH WATER AND RAINFALL. WASH WATER SHALL BE ESTIMATED AT 7 GALLONS PER CHUTE AND 50 GALLONS PER HOPPER OF CONCRETE PUMP TRUCK AND/OR DISCHARGING DRUM. THE MINIMUM SIZE SHALL BE 8 FEET BY 8 FEET AT THE BOTTOM AND 2 FEET DEEP. IF EXCAVATED, THE SIDE SLOPES SHALL BE 2 HORIZONTAL TO 1 VERTICAL.

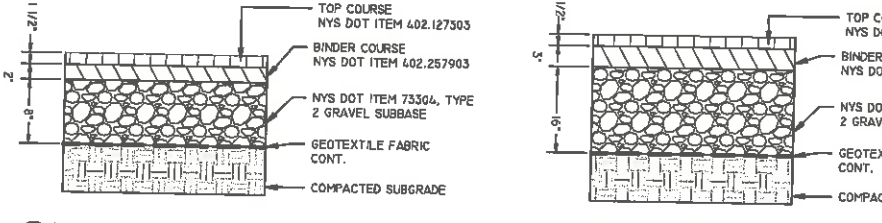
**LOCATION:**  
LOCATE THE FACILITY A MINIMUM OF 100 FEET FROM DRAINAGE SWALES, STORM DRAIN INLETS, WETLANDS, STREAMS AND OTHER SURFACE WATERS. PREVENT SURFACE WATER FROM ENTERING THE STRUCTURE EXCEPT FOR THE ACCESS ROAD. PROVIDE APPROPRIATE ACCESS WITH GRAVEL ACCESS ROAD SLOPED DOWN TO THE STRUCTURE. SIGNS SHALL BE PLACED TO DIRECT DRIVERS TO THE FACILITY AFTER THEIR LOAD IS DISCHARGED.

**LINER:**  
ALL WASHOUT FACILITIES SHALL BE LINED TO PREVENT LEACHING OF LIQUIDS IN THE GROUND. THE LINER SHALL BE PLASTIC SHEETING WITH A MINIMUM THICKNESS OF 10 MILS WITH NO HOLES OR TEAR, AND ANCHORED BEYOND THE TOP OF THE PIT WITH AN APPURTENANCE EXCEPT AT THE ACCESS POINT. IF PRE-FABRICATED WASHOUTS ARE USED THEY MUST ENSURE THE CAPTURE AND CONTAINMENT OF THE CONCRETE WASH AND BE SIZED BASED ON THE EXPECTED FREQUENCY OF CONCRETE POURS. THEY SHALL BE SITED AS NOTED IN THE LOCATION CRITERIA.

**MAINTENANCE:**

- ALL CONCRETE WASHOUT FACILITIES SHALL BE INSPECTED DAILY. DAMAGED OR LEAKING FACILITIES SHALL BE DEACTIVATED AND REPAIRED IMMEDIATELY.
- EXCESS RAINWATER THAT HAS ACCUMULATED OVER HARDENED CONCRETE SHALL BE PUMPED TO A STABILIZED AREA SUCH AS GRASS FILTER STRIP.
- ACCUMULATED HARDENED MATERIAL SHALL BE REMOVED WHEN 75% OF STORAGE CAPACITY OF THE STRUCTURE IS FILLED. ANY EXCESS WASH WATER SHALL BE PUMPED INTO A CONTAINMENT VESSEL AND PROPERLY DISPOSED OF OFF SITE.
- DISPOSE OF THE HARDENED MATERIAL OFF-SITE IN A CONSTRUCTION/DEMOLITION LANDFILL. ON-SITE DISPOSAL MAY BE ALLOWED IF THIS HAS BEEN APPROVED AND ACCEPTED AS PART OF THE PROJECT'S SWPPP. IN THAT CASE, THE MATERIAL SHOULD BE RECYCLED AS SPECIFIED, OR BURIED AND COVERED WITH A MINIMUM OF 2 FEET OF CLEAN COMPACTED EARTH FILL THAT IS PERMANENTLY STABILIZED TO PREVENT EROSION.
- THE PLASTIC LINER SHALL BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.
- INSPECT THE PROJECT SITE FREQUENTLY TO ENSURE THAT NO CONCRETE DISCHARGES ARE TAKING PLACE IN NON-DESIGNATED AREAS.

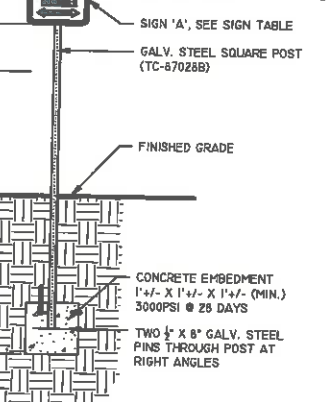
**4 CONCRETE WASHOUT AREA DETAIL**  
SCALE: N.T.S.



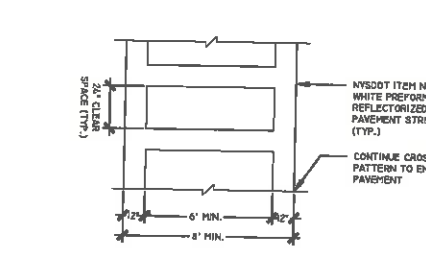
**5 SURFACE SCHEDULE**  
SCALE: N.T.S.

SIGN NO.	DESCRIPTION	M.U.T.C.D. NO./SIZE	QTY	COLORS
A		R7-1 12'x18'	2	GREEN LEGEND/BORDER, WHITE BKGD
B		M19B2 12'x18'	1	GREEN LEGEND/BORDER, WHITE BKGD

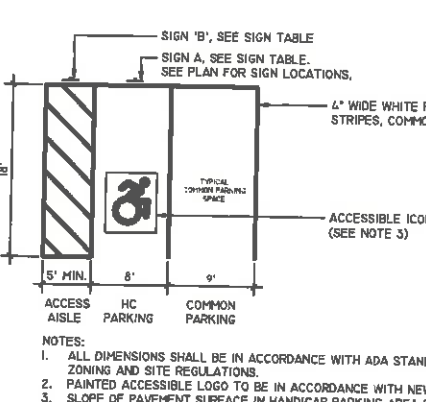
**NOTE:**  
ALL SIGNAGE MATERIALS AND INSTALLATION SHALL CONFORM TO ACCESSIBILITY REQUIREMENTS OF ICC/ANSI A117.1-2003



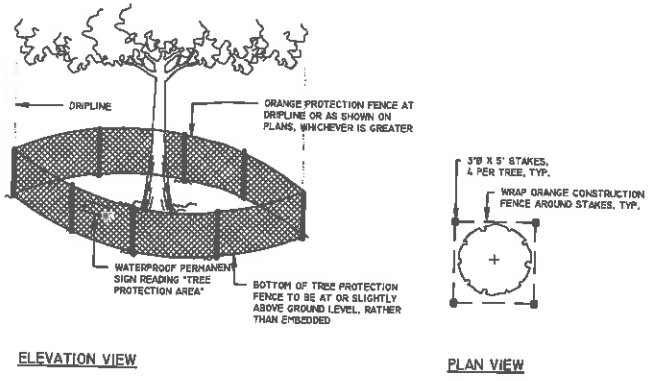
**6 ACCESSIBLE SIGN DETAIL**  
SCALE: N.T.S.



**7 CROSSWALK STRIPING DETAIL**  
SCALE: N.T.S.

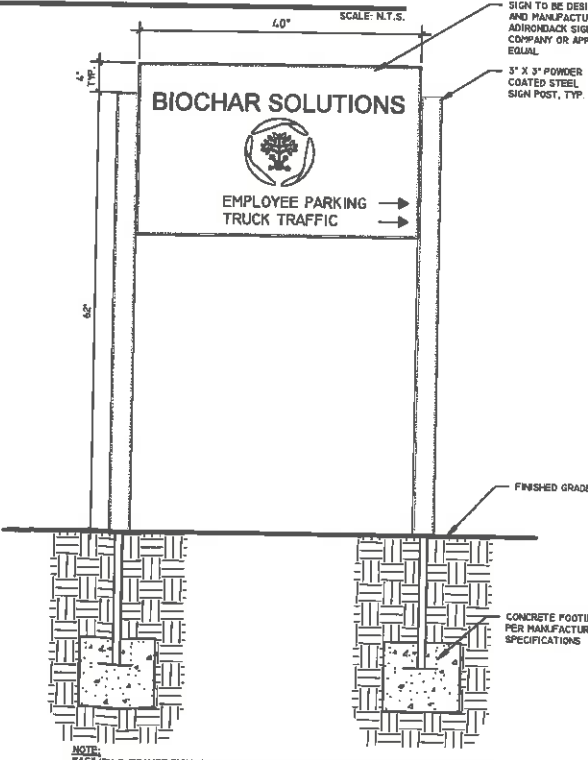


**8 PARKING LOT STRIPING DETAIL**  
SCALE: N.T.S.



- NOTE:**
- NO SOIL PLACEMENT OVER EXISTING TREE AND SHRUB ROOTS. NO SOIL SHOULD BE ADDED WITHIN PROTECTED AREAS UNLESS ADDED TO ACHIEVE PROPOSED GRADES.
  - NO TRENCHING IN PROTECTED AREAS. TRENCHING ACROSS THE ROOT SYSTEMS SHOULD START NO CLOSER THAN THE DRIFLINE OF THE TREE. TUNNEL LAYER ROOT SYSTEMS FOR UNDERGROUND UTILITIES SHOULD START 18 INCHES OR DEEPER BELOW THE NORMAL GROUND SURFACE. TREE ROOTS WHICH MUST BE SEVERED SHOULD BE CUT CLEAN BACKFILL MATERIAL THAT WILL BE IN CONTACT WITH THE ROOTS SHOULD BE TOPSOIL OR A PREPARED PLANTING SOIL MIXTURE.
  - CONSTRUCT STURDY FENCES OR BARRIERS OF WOOD, STEEL, OR OTHER PROTECTIVE MATERIAL AROUND VALUABLE VEGETATION FOR PROTECTION FROM CONSTRUCTION EQUIPMENT.
  - PREVENT TALL EQUIPMENT, SUCH AS BACKHOES AND DUMP TRUCKS, FROM CONTACTING TREE BRANCHES.
  - SEE L-4-10 FOR TREE PROTECTION LOCATIONS.

**9 TREE PROTECTION DETAIL**  
SCALE: N.T.S.

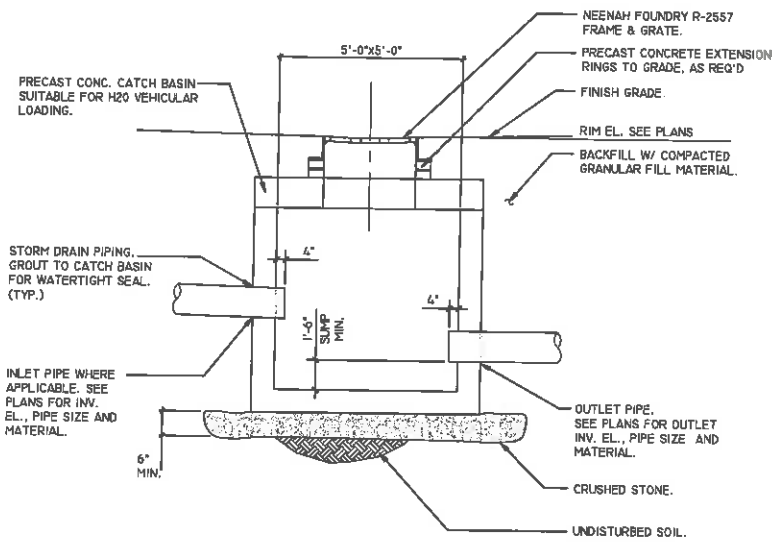


**10 ENTRANCE SIGN DETAIL**  
SCALE: N.T.S.

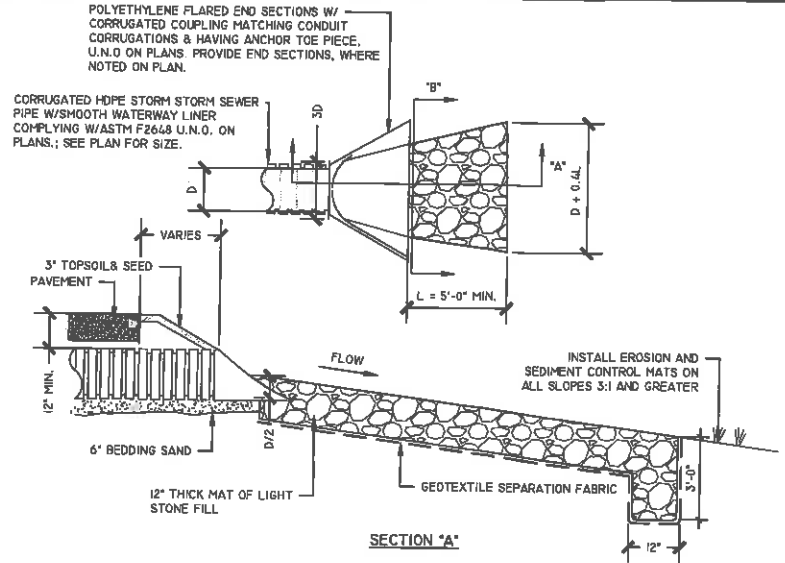
CHECKED BY: EEE  
DRAWN BY: EEE  
DESIGN BY: EEE

DESIGNED BY: JAMES DUBOIS  
DRAWN BY: JAMES DUBOIS  
DATE: 03/25/2022  
SCALE: N.T.S.

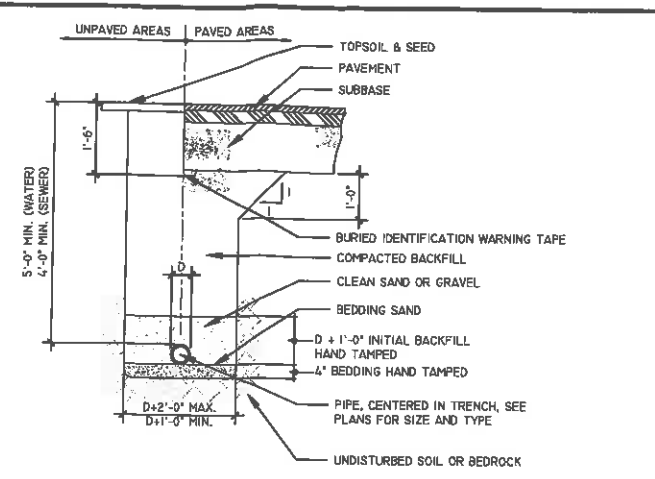




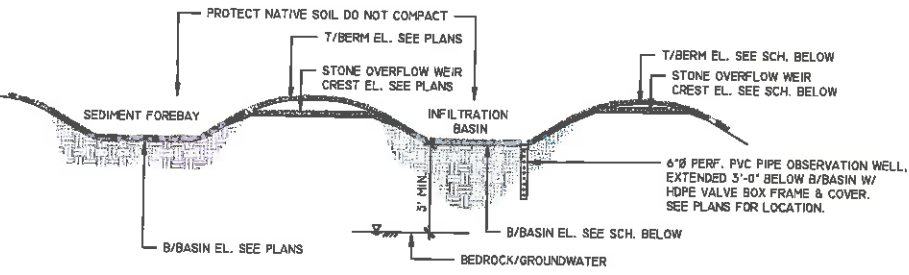
1 PRECAST CONCRETE CATCH BASIN DETAIL  
SCALE: N.T.S.



2 STONE OUTLET PROTECTION DETAIL  
SCALE: N.T.S.



3 TYPICAL INFILTRATION BASIN DETAIL  
SCALE: N.T.S.

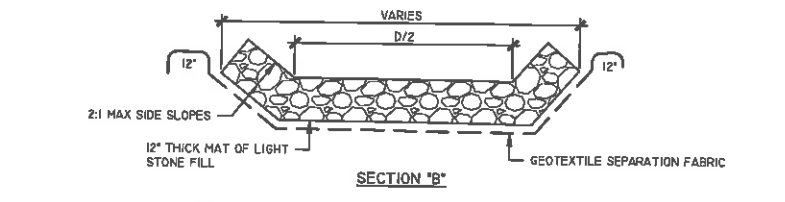


INFILTRATION BASIN SCHEDULE				
BASIN ID	PRETREATMENT VOL. PROV'D	T/BERM	B/BASIN	OUTLET CREST EL.
IF-1	7240 CF	285.5'	280.0'	282.75'
IF-2	5103 CF	280.5'	278.0'	279.25'
IF-3	4977 CF	278.5'	277.0'	277.75'

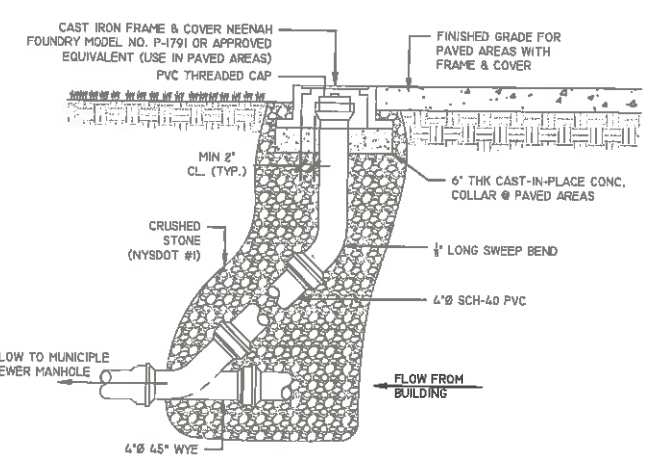
BASIN ID	DESIGN STORM		
	1-YR	10-YR	100-YR
IF-1	280.0'	280.01'	281.19'
IF-2	278.0'	278.04'	279.43'
IF-3	277.0'	277.01'	277.01'

4 TYPICAL PRECAST CONCRETE SEWER MANHOLE DETAIL  
SCALE: N.T.S.

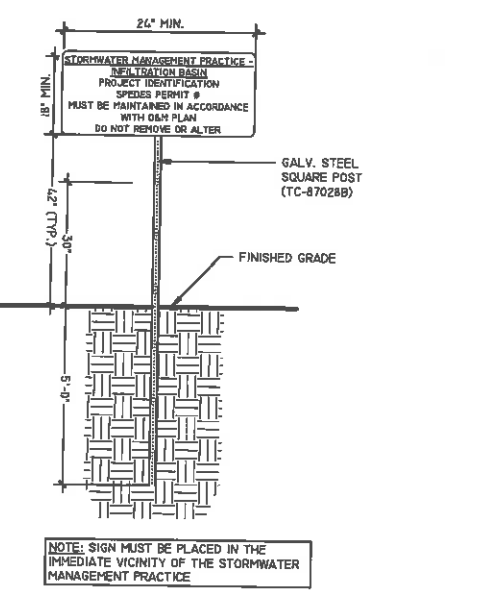


5 TYPICAL CONDUIT TRENCH DETAIL  
SCALE: N.T.S.

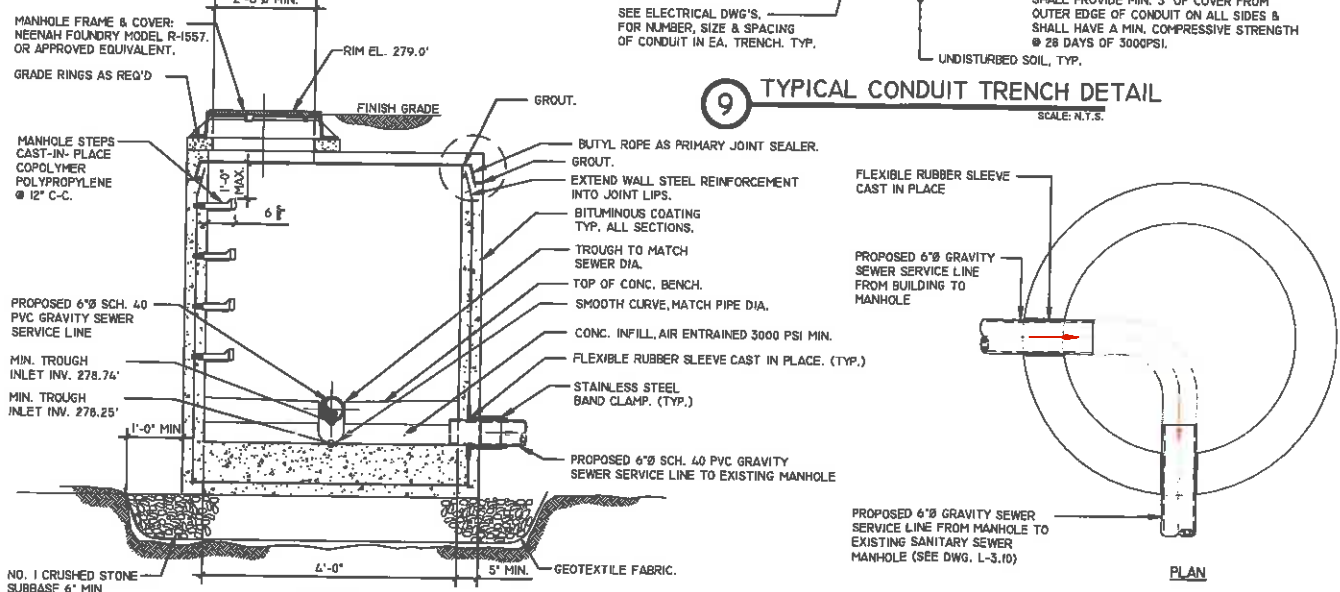
5 PIPE TRENCH DETAIL  
SCALE: N.T.S.



6 SEWER CLEANOUT DETAIL  
SCALE: N.T.S.



7 SWM FACILITY SIGN DETAIL  
SCALE: N.T.S.



8 WATER MAIN TAPPING SLEEVE  
SCALE: N.T.S.

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LANDSCAPE ARCHITECTURE + ENGINEERING, P.C.  
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OFFICE LOCATION: 38 HIGH ROCK AVE. SUITE 3 SARATOGA SPRINGS, NY 12866  
(518) 450-4030

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**DRAWINGS NOT FOR CONSTRUCTION**

REVISIONS	DESCRIPTION	DATE

PREPARED FOR: **SARATOGA BIOCHAR SOLUTIONS, LLC**  
26 F CONGRESS ST. #346  
SARATOGA SPRINGS, NY 12866

PROJECT: **SARATOGA BIOCHAR SOLUTIONS, LLC**  
DRAWING TITLE: **CONSTRUCTION DETAILS**  
DATE: 05/25/2022  
PROJECT NO.: 20019  
DRAWING NO.: **L-5.10**  
DWG 6 OF 9

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR ARCHITECT TO ALTER ANY ITEM IN ANY DRAWING OF AN ITEM BEARING THE SEAL OF A LICENSED PROFESSIONAL OR ALTERED THE SEAL OF THE DOCUMENT AND INCLUDE THE INITIALS AND SIGNATURE OF THE PERSON WHO ALTERED THE DRAWING. THE DATE OF SUCH ALTERATION AND THE SPECIFIC DESCRIPTION OF THE ALTERATION.

**DRAWINGS NOT FOR CONSTRUCTION**

REVISIONS	DESCRIPTION	DATE



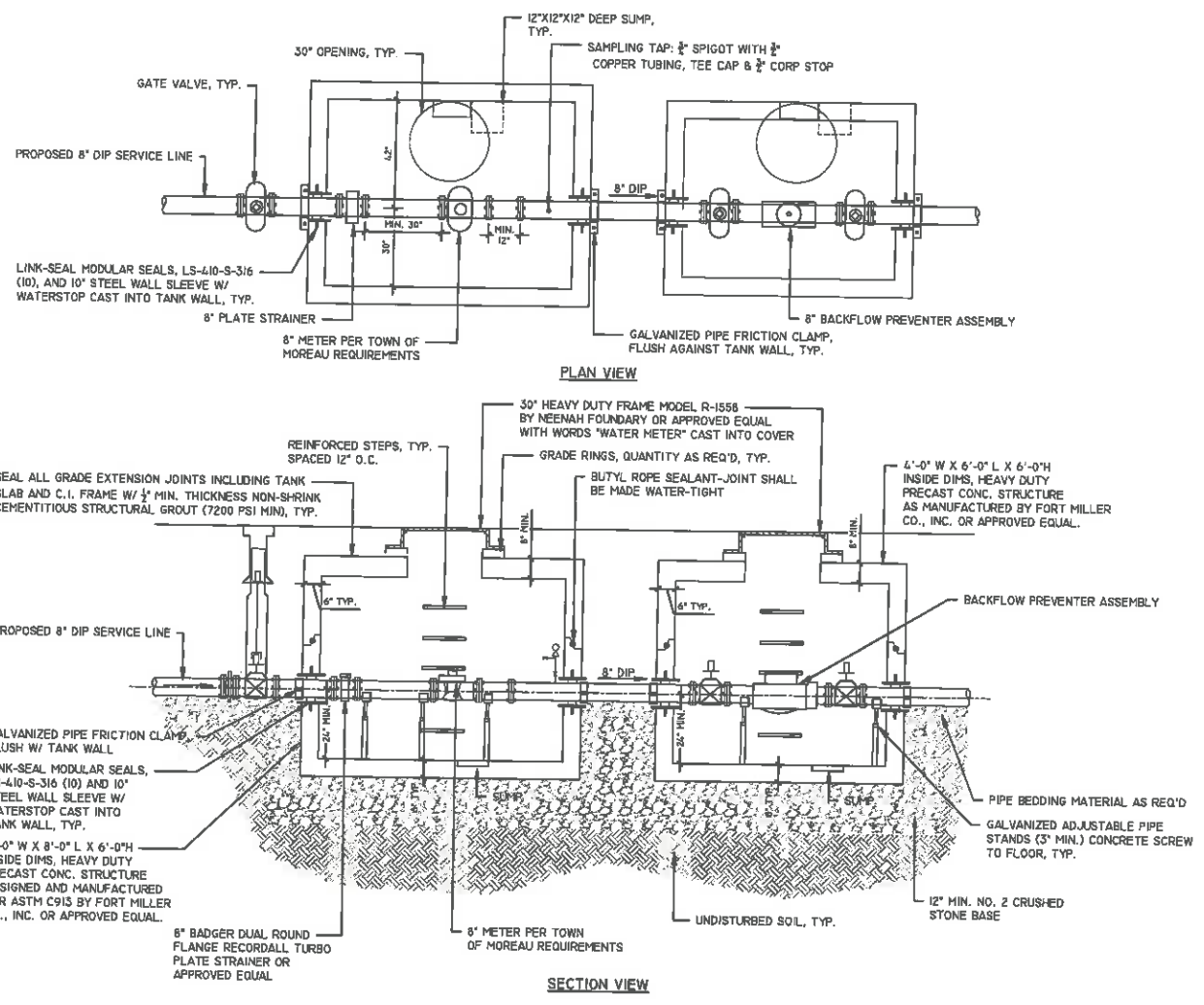
PREPARED FOR  
**SARATOGA BIOCHAR SOLUTIONS, LLC**  
26 F CONGRESS ST. #346  
SARATOGA SPRINGS, NY 12866

PROJECT  
**SARATOGA BIOCHAR SOLUTIONS, LLC**

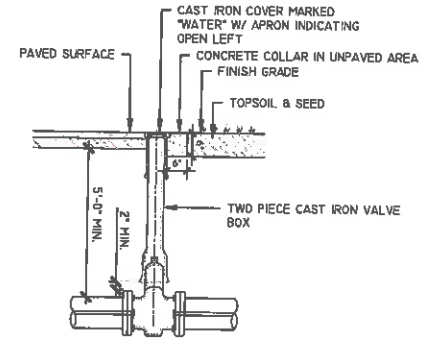
DRAWING TITLE  
**CONSTRUCTION DETAILS**

DATE: 03/25/2022  
PROJECT NO. 20019  
DRAWING NO.

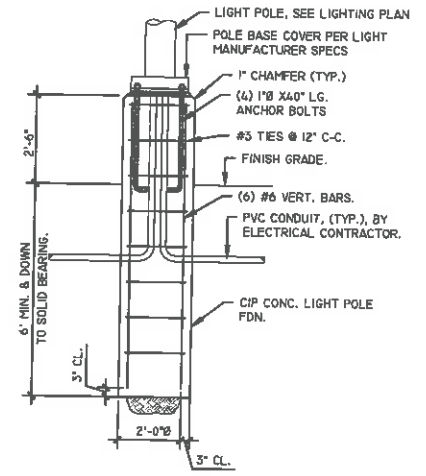
**L-5.11**  
DWG 7 OF 9



**1 WATER METER PIT AND BACKFLOW PREVENTER VAULT DETAIL**  
SCALE: N.T.S.



**3 TYPICAL GATE VALVE DETAIL**  
SCALE: N.T.S.



**2 TYPICAL LIGHT POLE FDN DETAIL**  
SCALE: N.T.S.

DESIGN BY: J.E.E. DRAWN BY: J.E.E. CHECKED BY: J.E.E.

DATE PLOTTED: 03/25/2022 10:00 AM PLOT FILE: L-5.11.DWG



**PLANTING NOTES:**

- ALL PLANT BEDS TO BE MULCHED WITH 4" DEEP BROWN HARDWOOD MULCH, UNLESS OTHERWISE NOTED ON THE PLANS.
- PRIOR TO PLANTING, CONTRACTOR SHALL LOCATE, VERIFY, AND REPORT ANY CONFLICTS OF EXISTING UTILITY LINES TO THE LANDSCAPE ARCHITECT.
- ALL NEW PLANT MATERIAL SHALL CONFORM TO THE MINIMAL GUIDELINES ESTABLISHED BY THE AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. AND SHALL BE OF SPECIMEN QUALITY UNLESS APPROVED OTHERWISE BY DIRECTOR'S REPRESENTATIVE.
- WRITTEN APPROVAL IS REQUIRED FROM LANDSCAPE ARCHITECT OF ANY PROPOSED SUBSTITUTIONS OF PLANT MATERIAL. CHANGED PLANTS SHALL BE EQUIVALENT FORM, HEIGHT, FLOWER, COLOR, LEAF, SIZE, BRANCHING, CULTURE AND FRUIT.
- A MINIMUM OF 6" OF SUITABLE TOPSOIL IS REQUIRED IN AREAS WITH PROPOSED LAWN SEEDING PRIOR TO SEEDING.
- PRIOR TO COMMENCEMENT OF PLANTING, STAKE LOCATION OF ALL PLANTINGS FOR APPROVAL BY LANDSCAPE ARCHITECT.
- SCHEDULE DELIVERY OF PLANTS ONLY IN REASONABLE TIME AS TO WHEN THEY CAN BE INSTALLED. PLANTS TO BE INSPECTED BY LANDSCAPE ARCHITECT AT DELIVERY.
- MAINTENANCE TO BEGIN IMMEDIATELY FOLLOWING INSTALLATION OF PLANT MATERIALS AND LAWN UNTIL FINAL ACCEPTANCE.
- TREES SHALL NOT BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING. TREES SHALL BE PLANTED 3" HIGHER THAN PREVIOUS GRADE. SHRUBS AND GROUND COVER SHALL BE PLANTED AS THE SAME RELATIONSHIP TO GRADE AS PREVIOUS GRADE.
- PLANT MATERIAL QUANTITIES TO BE PROVIDED BY CONTRACTOR AS SHOWN ON DRAWINGS.
- UNLESS NOTED ON PLANT LIST, PLANTS TO BE BALLED AND BURLAPPED OR CONTAINER GROWN.
- FOR SEEDING OF DISTURBED AREAS USE SPECIFIED MIX FOR DESIGNATED AREA OR APPROVED EQUAL APPROVED BY LANDSCAPE ARCHITECT.

**DRAWINGS NOT FOR CONSTRUCTION**

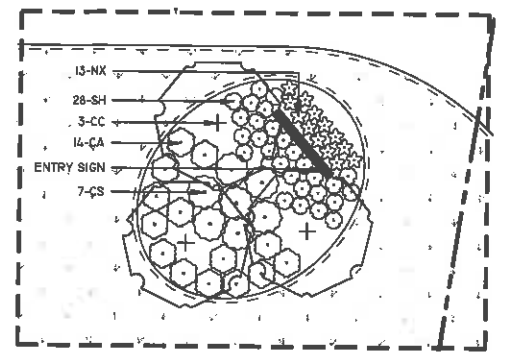
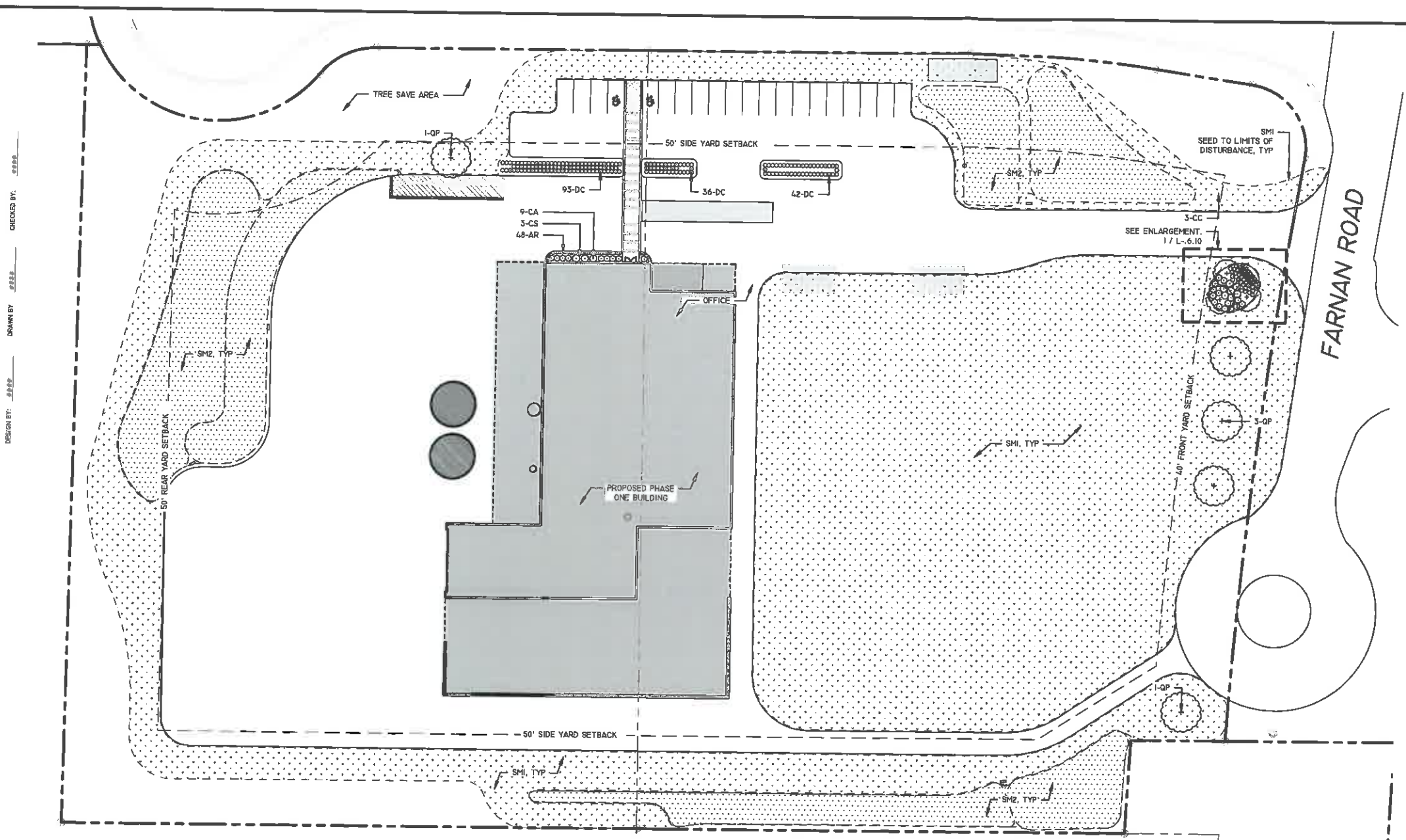
REVISIONS	DESCRIPTION	DATE



PREPARED FOR  
**SARATOGA BIOCHAR SOLUTIONS, LLC**  
 26 F CONGRESS ST. #346  
 SARATOGA SPRINGS, NY 12866

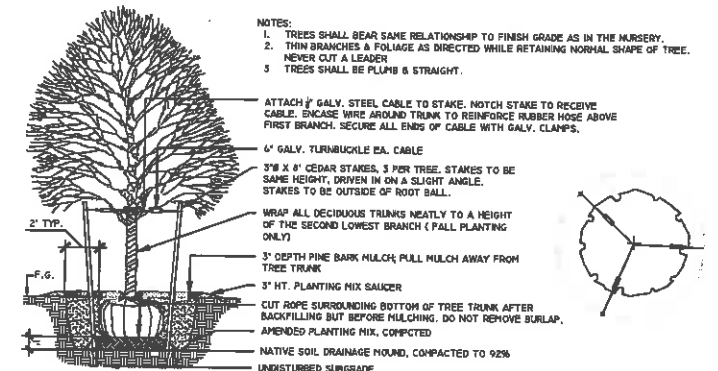
PROJECT  
**SARATOGA BIOCHAR SOLUTIONS, LLC**  
 DRAWING TITLE  
**PLANTING PLAN**

DATE: 03/25/2022  
 PROJECT NO.  
 20019  
 DRAWING NO.  
**L-6.10**  
 DWG 8 OF 9

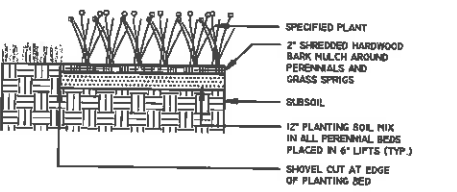


**1 ENTRY SIGN PLANTING ENLARGEMENT**

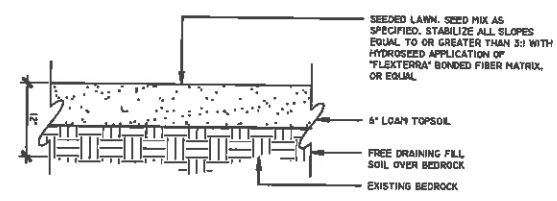
PLANTING SCHEDULE					
KEY	QTY	SYMBOL	SCIENTIFIC NAME	COMMON NAME	COMMENTS
<b>TREES</b>					
CC	5	(Symbol)	CRATAEGUS CRUS-GALLI	THORNLESS COCKSPURE HAWTHORN	10-12' HEIGHT SINGLE STEMMED
QP	5	(Symbol)	QUERCUS PALUSTRIS	PIN OAK	3" CAL. 14-16' HT. SINGLE STEMMED, 5" CLEAR TRUNK
<b>SHRUBS</b>					
CA	24	(Symbol)	CLETHRA ALNIFOLIA 'HUMMINGBIRD'	HUMMINGBIRD SUMERWEET	5 GAL. CONT. 36" O.C.
CS	10	(Symbol)	CORNUS SERICEA 'FARROW'	ARCTIC FIRE DOGWOOD	3 GAL. 42" O.C.
<b>PERENNIALS / GRASSES / SEDGES</b>					
AR	48	(Symbol)	AJUGA REPTANS 'CATLIN'S GIANT'	CATLIN'S GIANT AJUGA	4" POT 12" O.C.
DC	171	(Symbol)	DESCHAMPSIA CAESPITOSA	TUFTED HAIR GRASS	4" PLUGS 24" O.C.
NX	13	(Symbol)	NEPETA X FAASSENII 'WALKER'S LOW'	WALKER'S LOW CATMINT	1 GAL. 24" O.C.
SH	28	(Symbol)	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSEED	1 GAL. 24" O.C.
SM1	87,500 S.F.	(Symbol)	CONSERVATION SEED MIX	ERNST ERNMX-114	SEED OR APPROVED EQUAL. INSTALL PER MAN. SPECIFICATIONS
SM2	24,500 S.F.	(Symbol)	NATIVE DETENTION SEED MIX	ERNST ERNMX-183	SEED OR APPROVED EQUAL. INSTALL PER MAN. SPECIFICATIONS



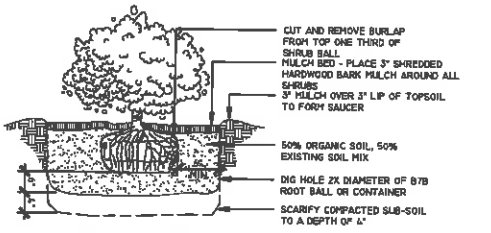
**1 DECIDUOUS TREE PLANTING DETAIL**



**2 PERENNIAL & GRASS PLANTING DETAIL**



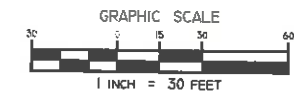
**3 SEEDING AREA DETAIL**



**4 BALLED & BURLAPPED (B&B) DETAIL**

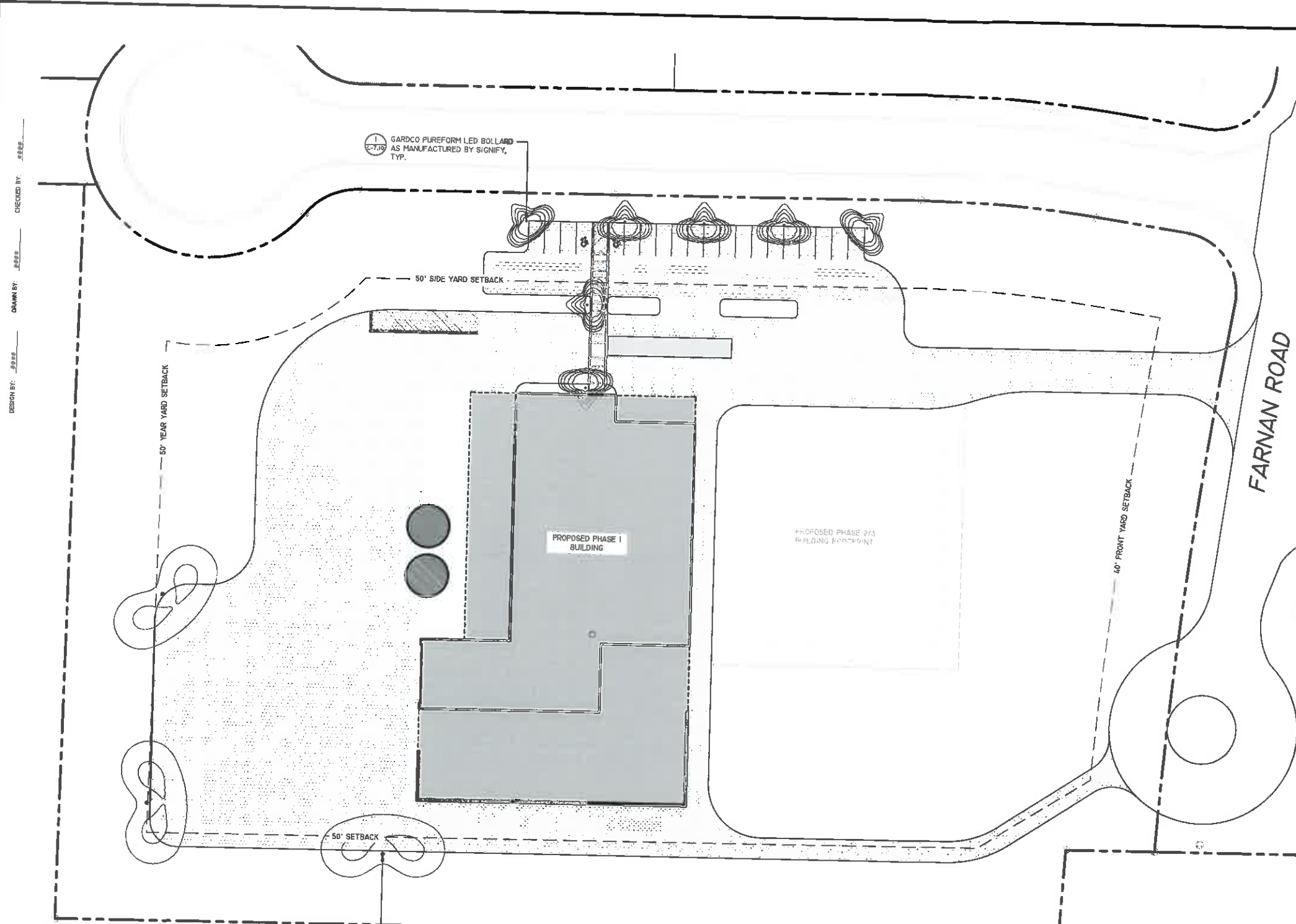
**LEGEND:**

- PROPERTY LINE
- PROPERTY LINE SETBACK
- MEAN HIGH WATER LINE
- LIMITS OF DISTURBANCE
- EXISTING TREE TO REMAIN
- EXISTING TREE LINE
- PROPOSED SHRUBS/ GROUNDCOVER
- PROPOSED TREES
- PROPOSED RAIN GARDEN
- PROPOSED TURF GRASS AREA



MAP REFERENCE:  
 BASE MAP INFORMATION OBTAINED FROM "MAP OF TOPOGRAPHIC SURVEY MADE FOR NORTHEAST BIOCHAR SOLUTIONS, INC., TOWN OF MOREAU, SARATOGA COUNTY, NEW YORK" PREPARED BY VAN DUSEN & STEVES SURVEYORS, DATED JULY 26, 2021.

DIG SAFE NOTE:  
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Gardco PureForm LED bollard PBL integrates a sleek, low profile design, extraordinary light output, and energy savings into an innovative pedestrian scale luminaire. PureForm bollard features a high performance optical system designed to achieve wide spacing and full cutoff performance. Three heights available for a customized look. IP66 optics ensure dust or moisture will never interfere with performance.

2019.06.18 - AJH

Ordering guide

Item	Qty	Part	Notes	Unit	Price	Order
PBL	20	Standard 36" H	10' x 10' x 10' x 10'	200	100.00	2000
PBL	20	Standard 42" H	10' x 10' x 10' x 10'	200	100.00	2000
PBL	20	Standard 48" H	10' x 10' x 10' x 10'	200	100.00	2000

1 GARDCO PBL PUREFORM LED BOLLARD



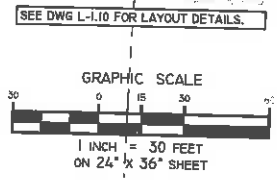
Gardco PureForm LED area medium P26 features a sleek, low profile design and optimal performance. PureForm area medium is designed to achieve maximum pole spacing, with lumen output up to 28,900 lumens. Multiple distribution and shading options are available to achieve maximum control. A full range of control options provides additional energy savings.

2019.06.18 - AJH

Ordering guide

Item	Qty	Part	Notes	Unit	Price	Order
P26	20	Standard 36" H	10' x 10' x 10' x 10'	200	100.00	2000
P26	20	Standard 42" H	10' x 10' x 10' x 10'	200	100.00	2000
P26	20	Standard 48" H	10' x 10' x 10' x 10'	200	100.00	2000

2 GARDCO P26 PUREFORM LED MEDIUM AREA LIGHT



NAD REFERENCE:  
BASE MAP INFORMATION OBTAINED FROM "MAP OF TOPOGRAPHIC SURVEY MADE FOR NORTHEAST BIOCHAR SOLUTIONS, INC., TOWN OF MOREAU, SARATOGA COUNTY, NEW YORK" PREPARED BY VAN DUSEN & STEVES SURVEYORS, DATED JULY 28, 2019.

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studioA  
STUDIO A  
LANDSCAPE ARCHITECTURE +  
ENGINEERING, DFC  
MAILING:  
PO BOX 272  
SARATOGA SPRINGS, NY 12866  
OFFICE LOCATION:  
38 HIGH ROCK AVE. SUITE 3  
SARATOGA SPRINGS, NY 12866  
(518) 450-4030

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DRAWINGS NOT FOR CONSTRUCTION

REVISIONS	DESCRIPTION	DATE

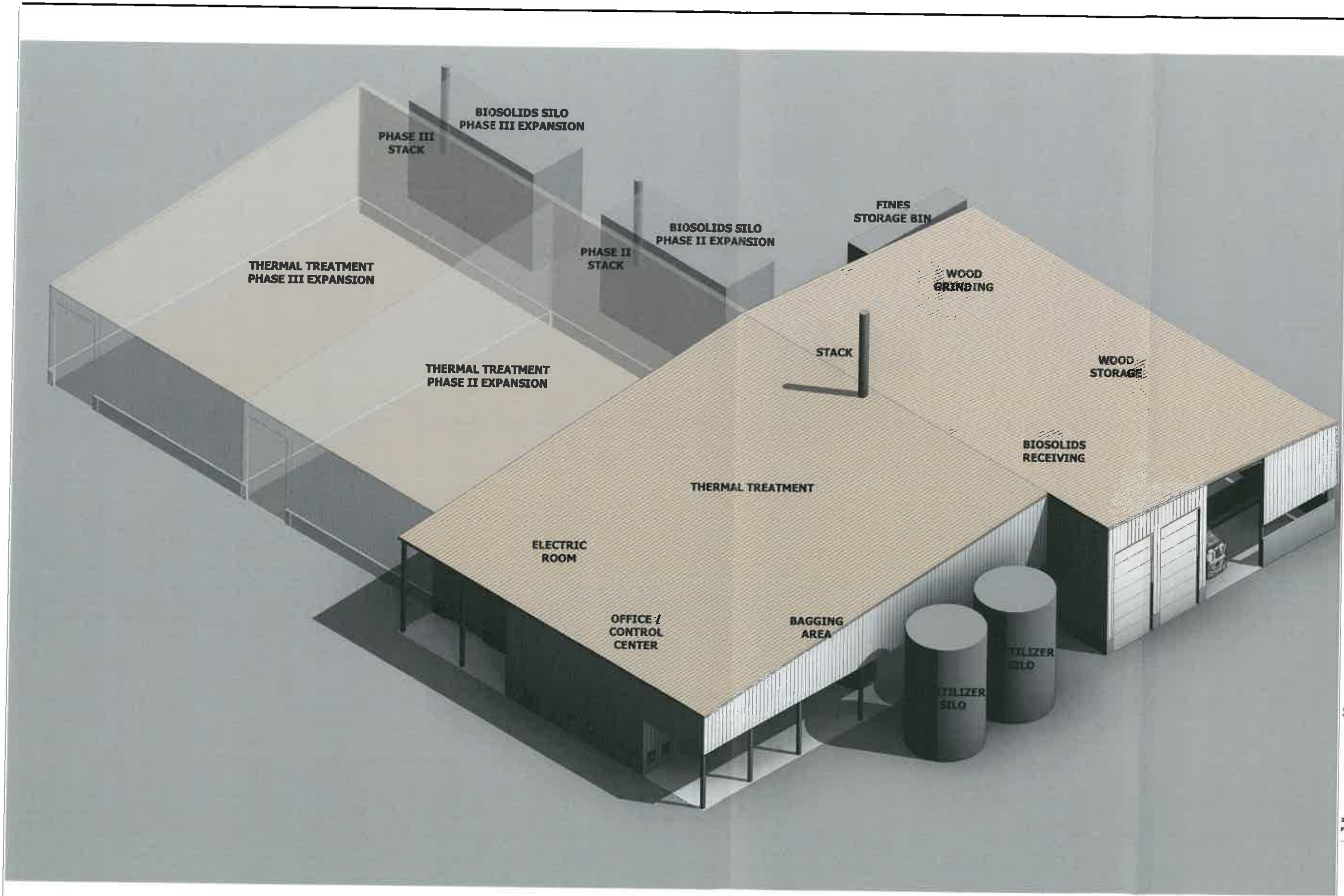
northeastern BIOCHAR SOLUTIONS WASTE NOT

PREPARED FOR  
SARATOGA BIOCHAR SOLUTIONS, LLC  
26 F CONGRESS ST. #346  
SARATOGA SPRINGS, NY 12866

PROJECT  
SARATOGA BIOCHAR SOLUTIONS, LLC  
DRAWING TITLE  
LIGHTING PLAN

DATE: 03/25/2022  
PROJECT NO.  
20019  
DRAWING NO.  
L-7.10  
DWG 9 OF 9





SCALE

PROJECT TITLE  
**SARATOGA  
 BIOCHAR  
 SOLUTIONS**  
 2 Electric Drive  
 South Glens Falls, NY 12803

SHEET  
 TITLE  
**AXONOMETRIC**

CONSULTANT

DRAWN  
 BY: **OMS**      CHECKED  
 BY: **GLM**

DATE  
**3/30/22**

PROJECT NO.  
**20-020**

REVISIONS

NO.	DESCRIPTION	DATE

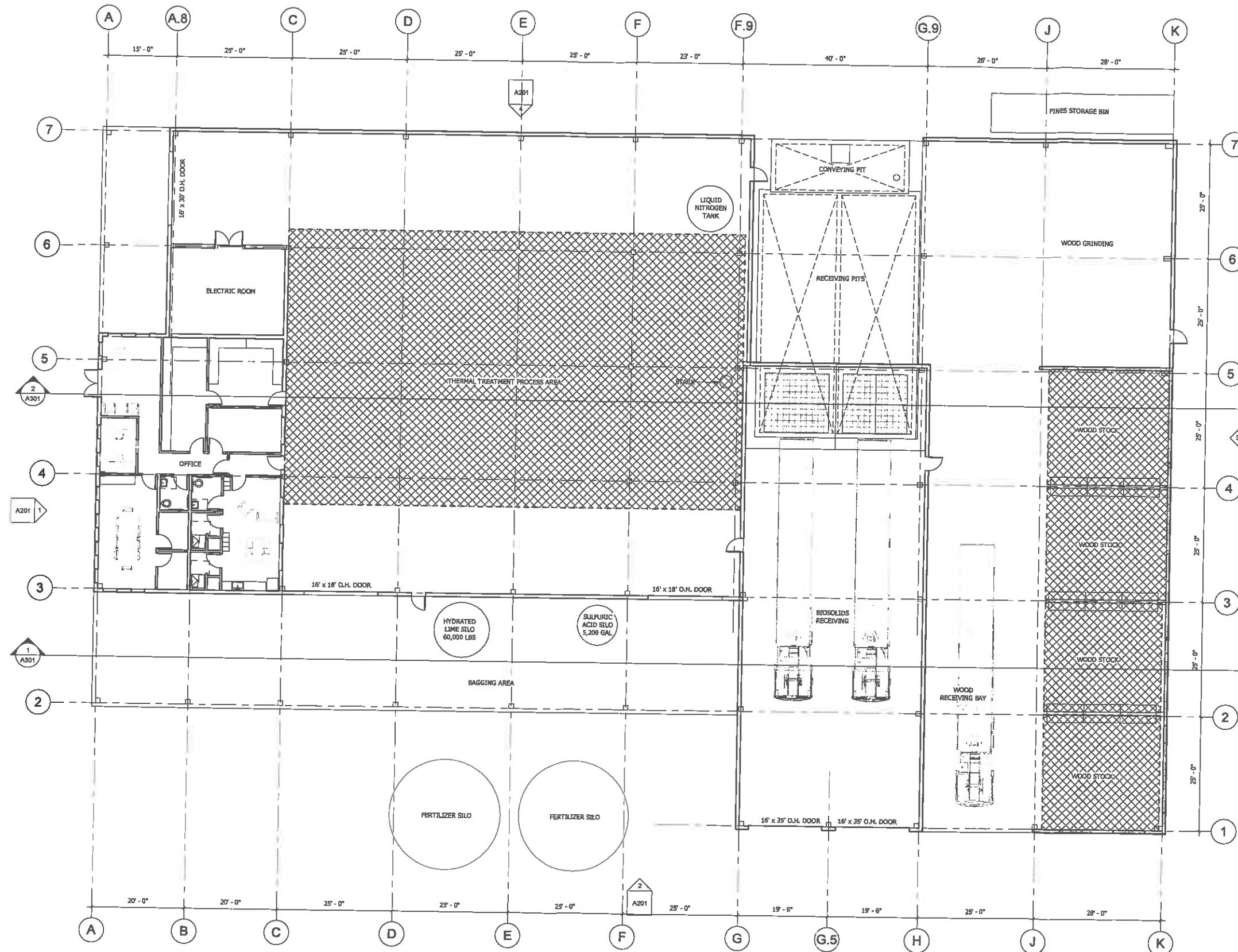
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 ON:

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283 RIVER STREET - TROY, NY - 12180  
 PH 518 618 0900 FX 518 618 0901

SHEET  
 NO.  
**A100**

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SEAL

PROJECT TITLE  
**SARATOGA BIOCHAR SOLUTIONS**  
 2 Electric Drive  
 South Glens Falls, NY 12803

SHEET TITLE  
**PLAN**

CONSULTANT

DRAWN BY: CMS | CHECKED BY: GLM

DATE: 3/30/22

PROJECT NO.: 20-020

REVISIONS

NO.	DESCRIPTION	DATE

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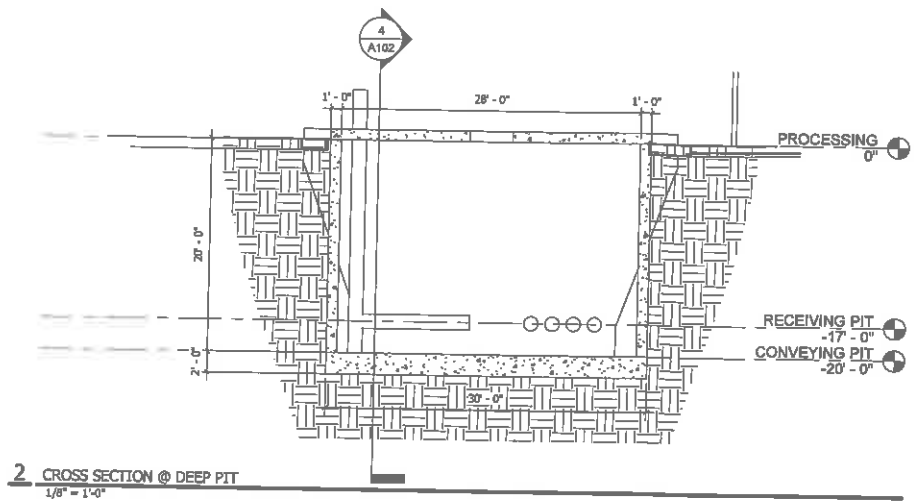
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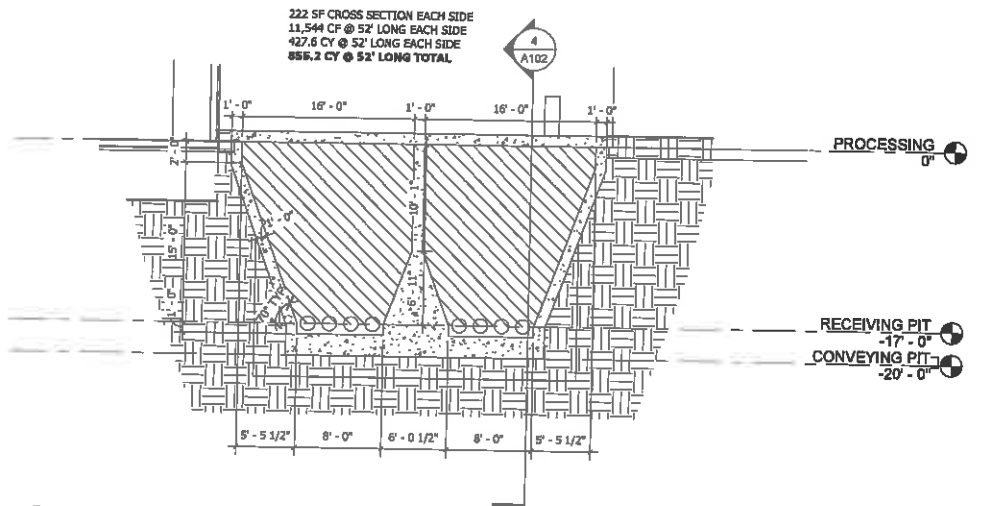
SHEET NO.  
**A101**

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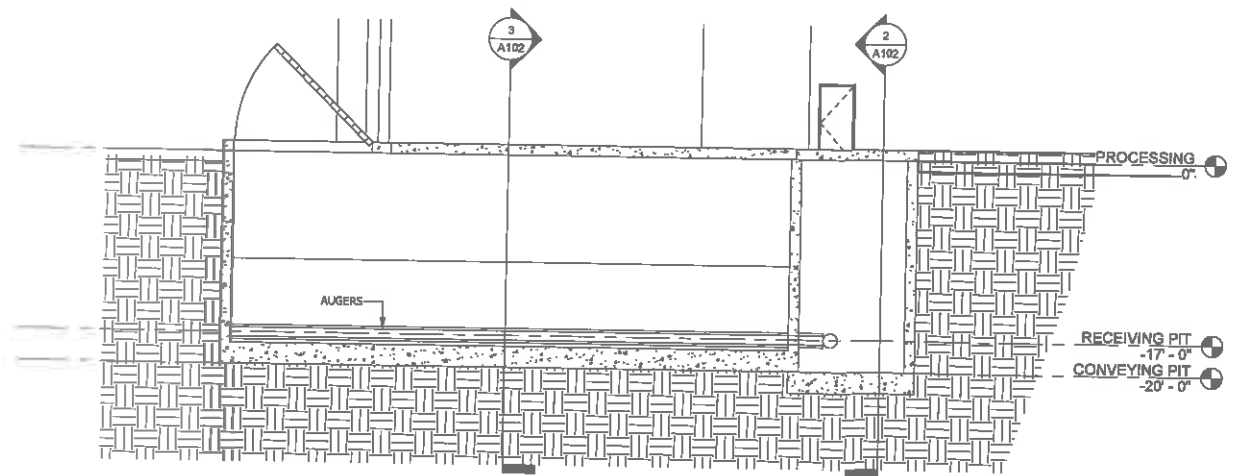




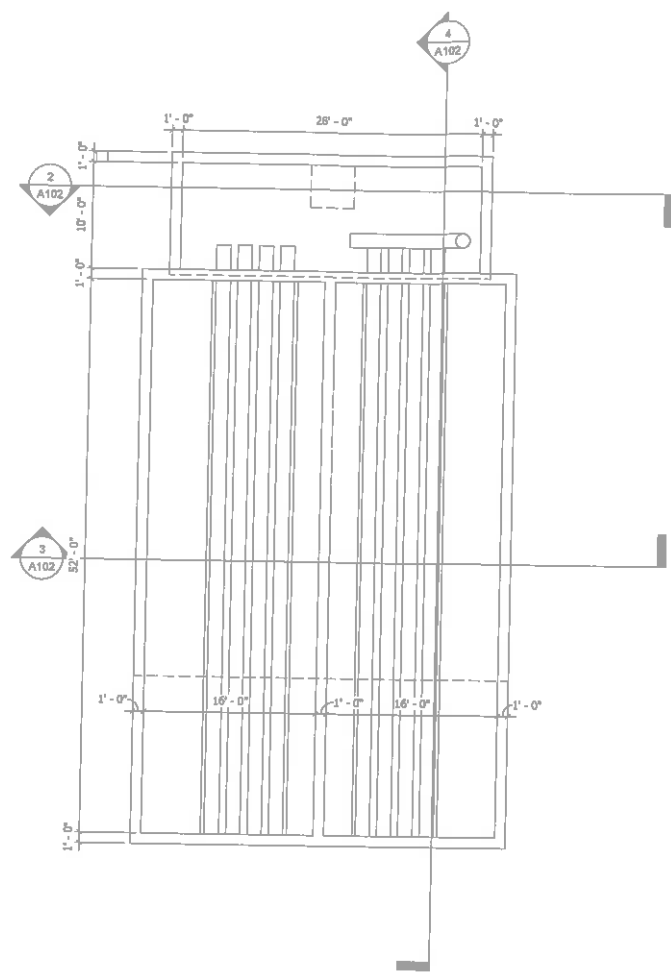
2 CROSS SECTION @ DEEP PIT  
1/8" = 1'-0"



3 CROSS SECTION @ SHALLOW PIT  
1/8" = 1'-0"



4 LONGITUDINAL SECTION @ PITS  
1/8" = 1'-0"



1 PIT PLAN  
1/8" = 1'-0"



5 PIT AXO

SEAL

PROJECT TITLE

**SARATOGA  
BIOCHAR  
SOLUTIONS**

2 Electric Drive  
South Glens Falls, NY 12903

SHEET  
TITLE

**PIT DETAILS**

CONSULTANT

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DATE: 3/30/22

PROJECT NO.: 20-020

REVISIONS

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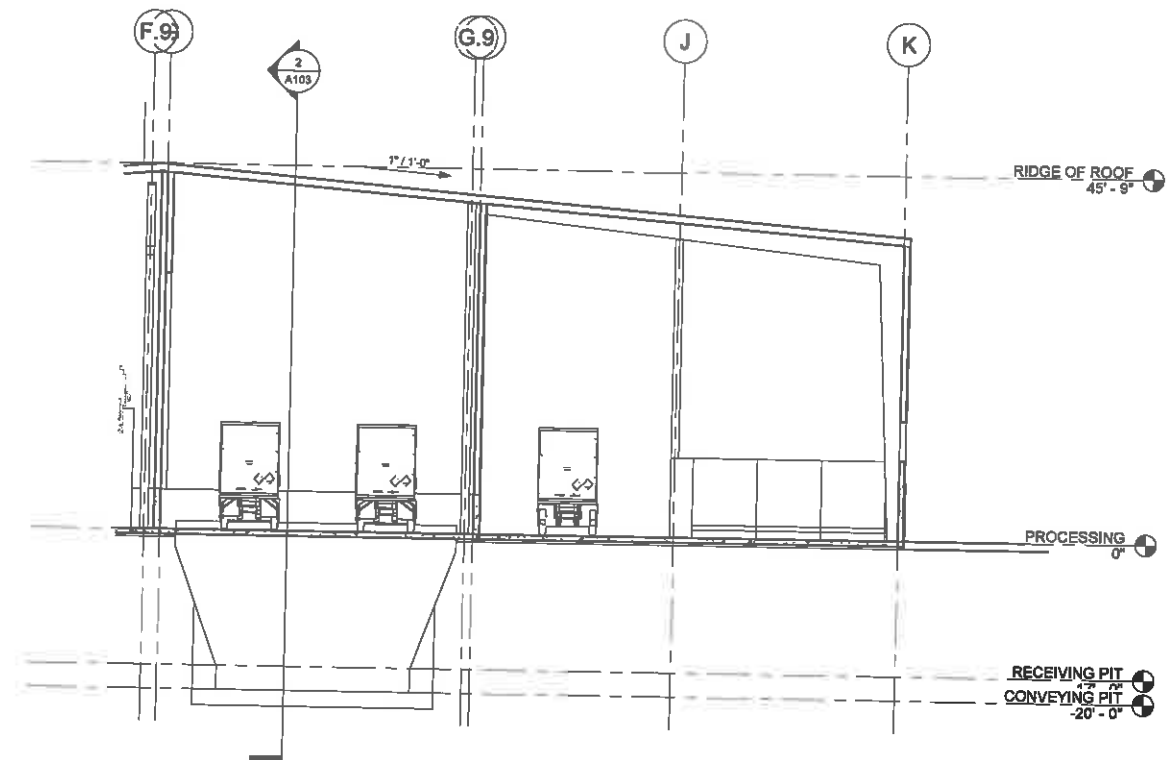
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PH 518 618 0900 FX 518 618 0901

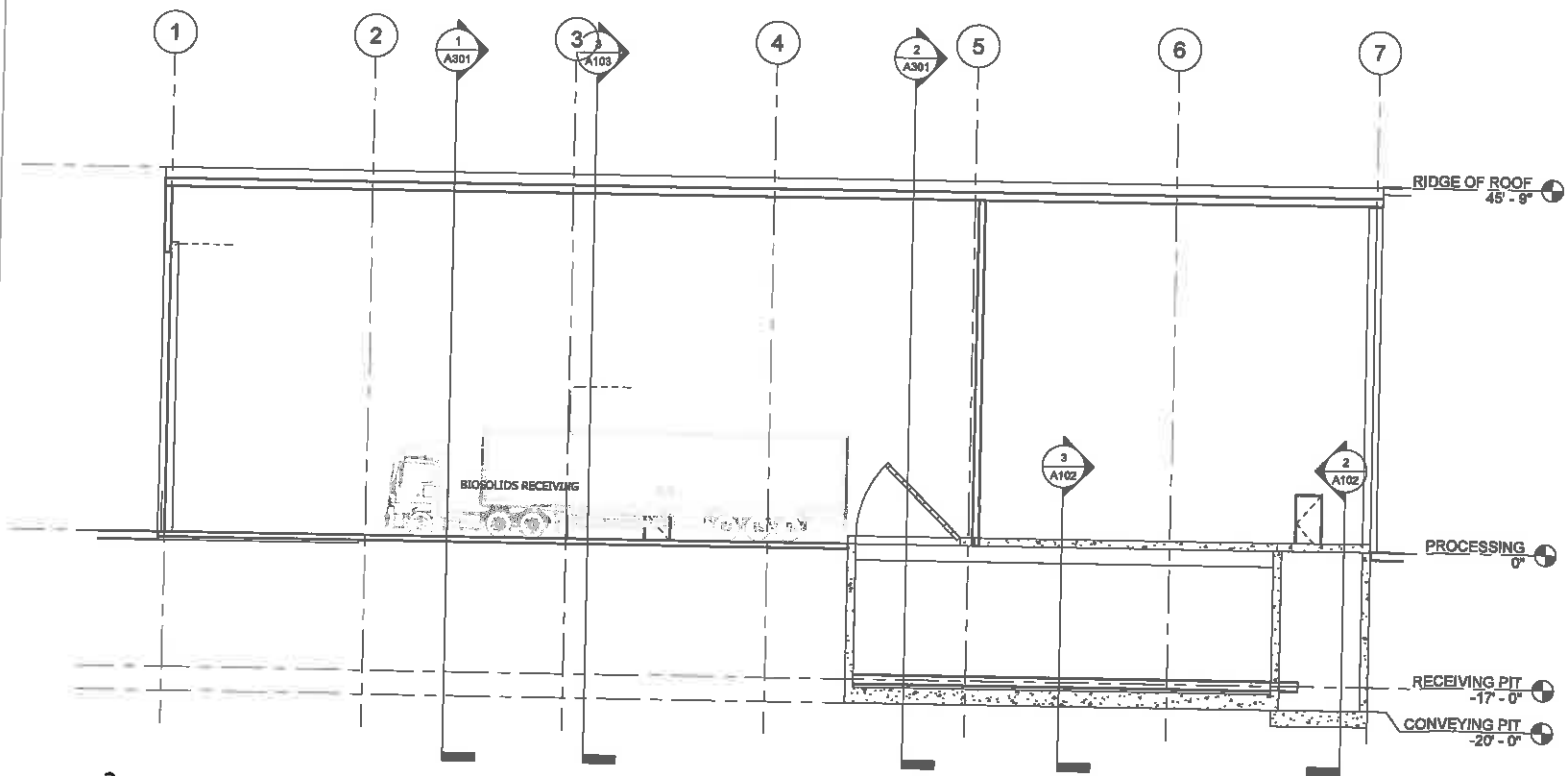
SHEET NO.

**A102**

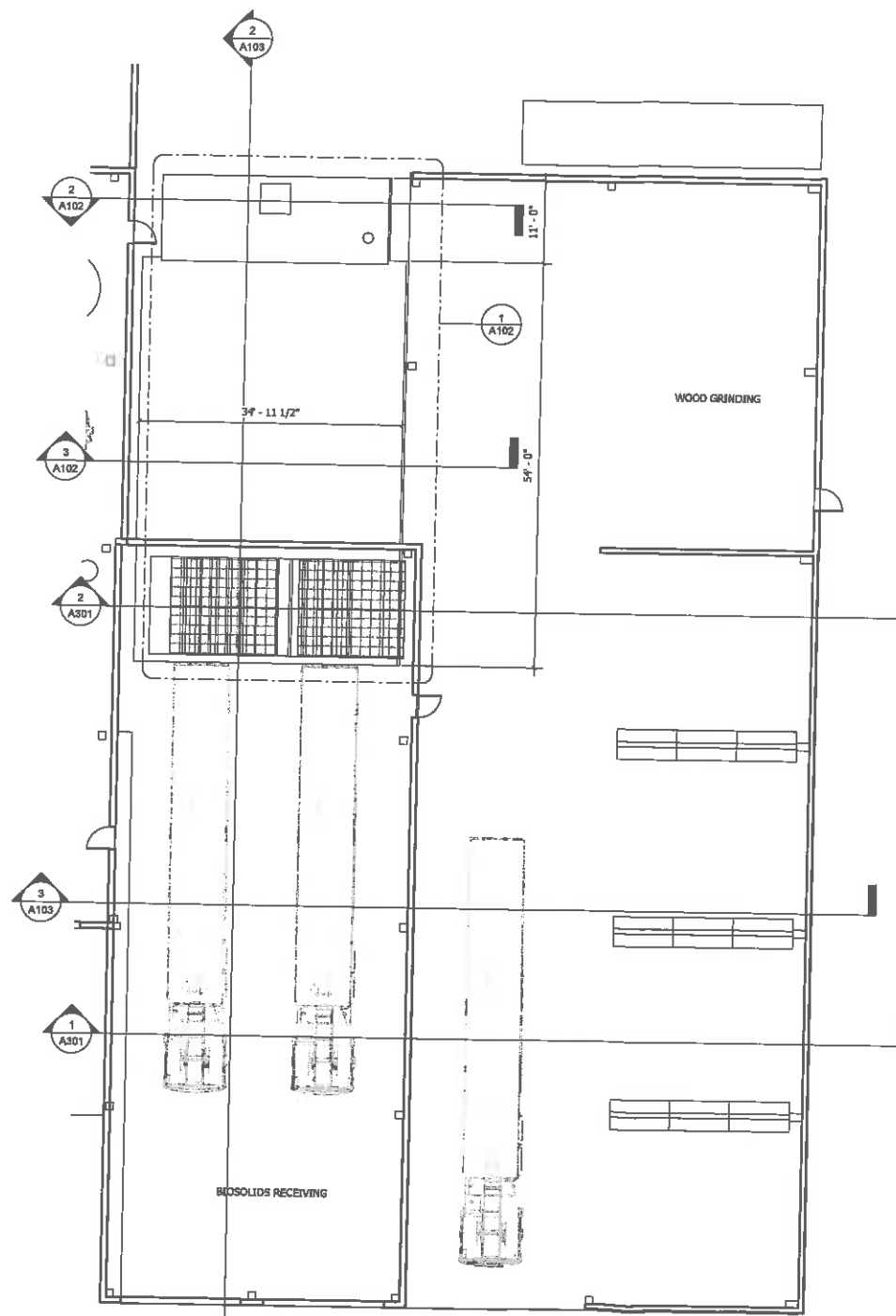
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**3. TRANSVERSE SECTION @ BIOSOLIDS RECEIVING**  
3/32" = 1'-0"



**2. LONGITUDINAL SECTION @ BIOSOLIDS RECEIVING**  
3/32" = 1'-0"



**1. RECEIVING AREA PLAN**  
3/32" = 1'-0"

SEAL

PROJECT TITLE

**SARATOGA  
BIOCHAR  
SOLUTIONS**

2 Electric Drive  
South Glens Falls, NY 12803

SHEET  
TITLE

**RECEIVING  
BUILDING**

CONSULTANT

DRAWN  
BY  
CMS

CHECKED  
BY  
GLM

DATE

3/30/22

PROJECT NO.

20-020

REVISIONS

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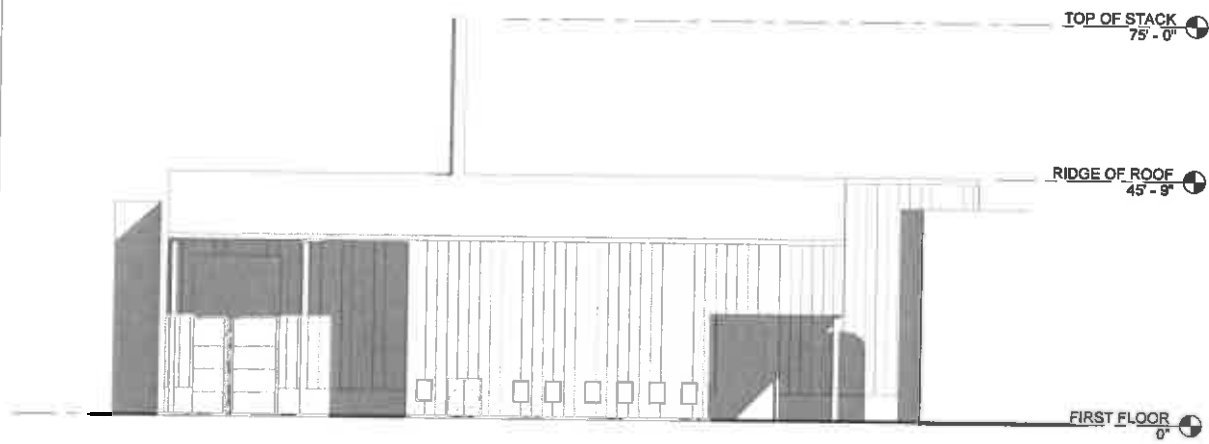
283 RIVER STREET • TROY, NY • 12180  
PH 518 618 0900 FX 518 618 0901

SHEET  
NO.

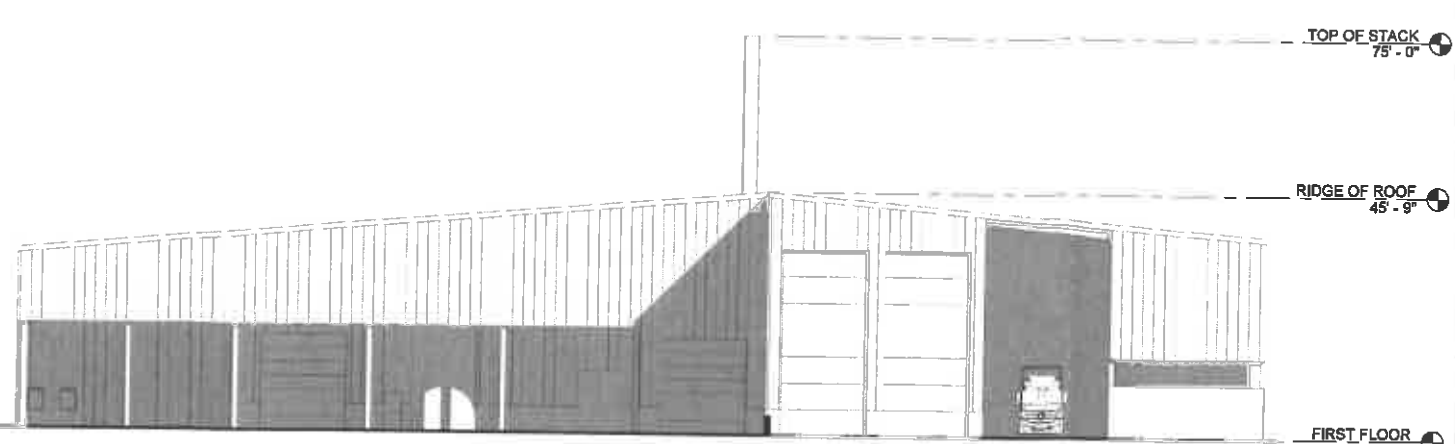
**A103**

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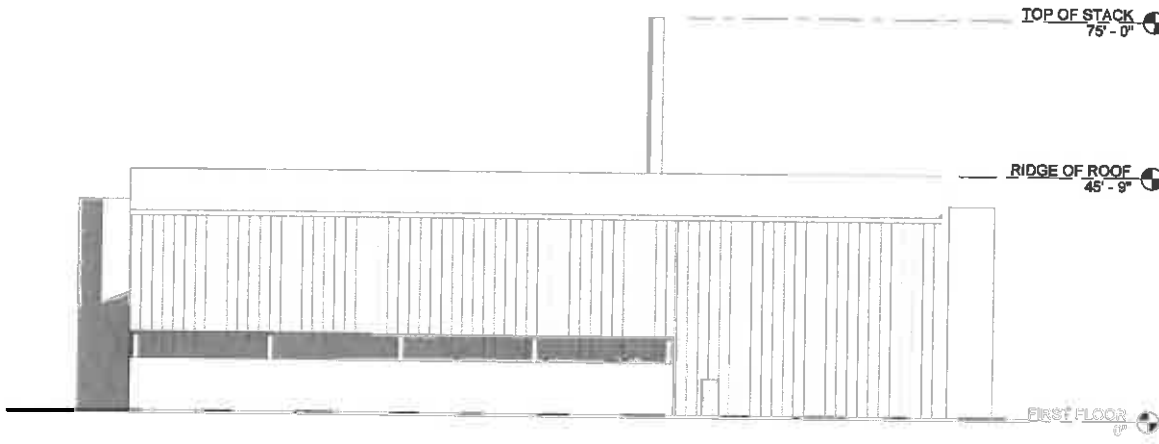




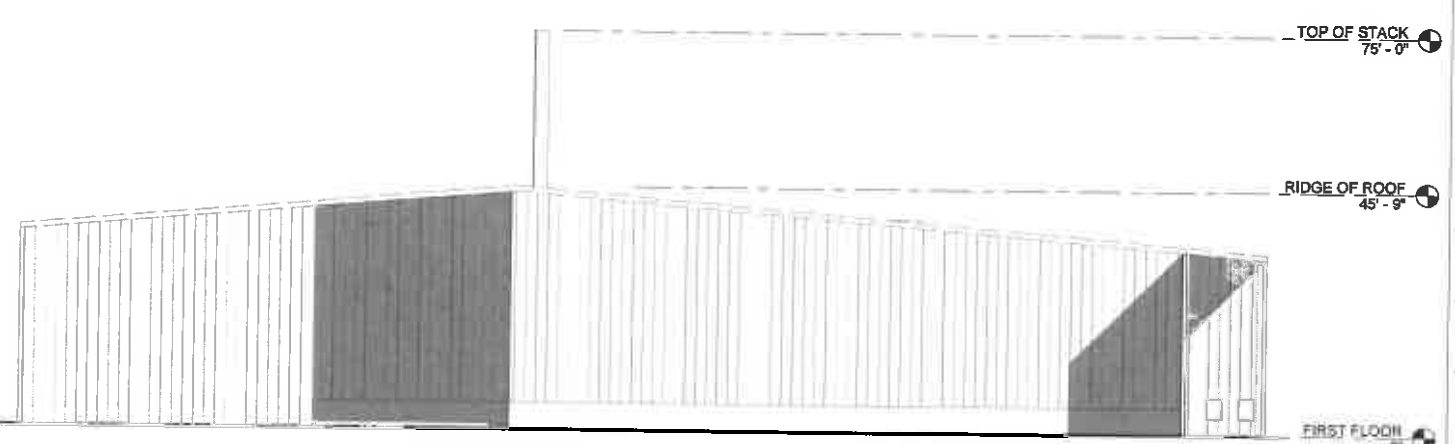
1 EXTERIOR ELEVATION - WEST  
1/16" = 1'-0"



2 EXTERIOR ELEVATION - SOUTH  
1/16" = 1'-0"



3 EXTERIOR ELEVATION - EAST  
1/16" = 1'-0"



4 EXTERIOR ELEVATION - NORTH  
1/16" = 1'-0"

SEAL

PROJECT TITLE  
**SARATOGA  
BIOCHAR  
SOLUTIONS**

2 Electric Drive  
South Glens Falls, NY 12803

SHEET  
TITLE  
**EXTERIOR  
ELEVATIONS**

CONSULTANT

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PROJECT NO.: 20-020

NO.	DESCRIPTION	DATE

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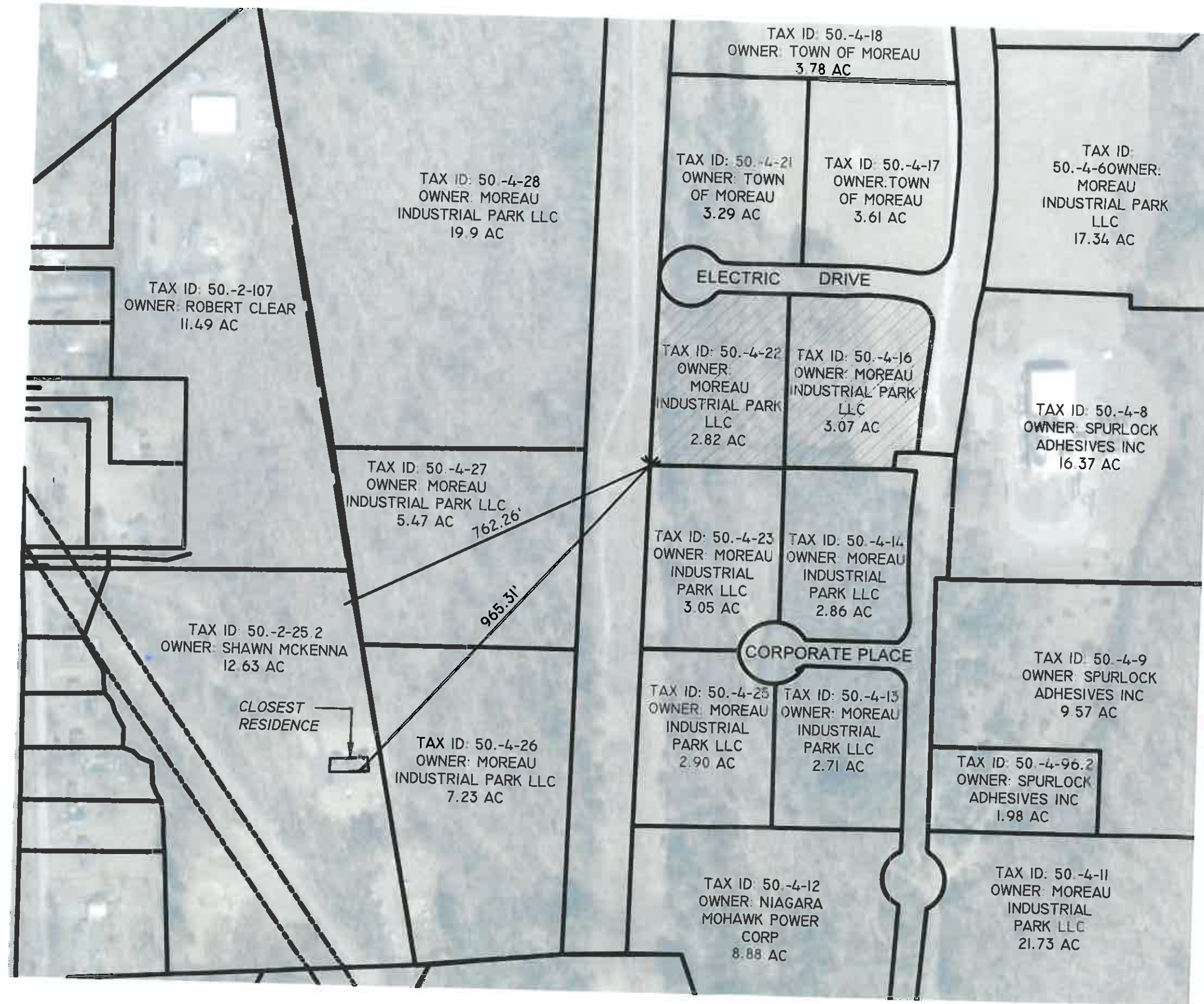
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SHEET NO.  
**A201**

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**NOTE:**  
1. TAX PARCEL INFORMATION OBTAINED FROM SARATOGA COUNTY ONLINE MAP VIEWER ON MARCH 30, 2022.

**LEGEND**

-  PARCEL BOUNDARY
-  PROJECT LOCATION

SCALE: 1" = 250'

