



Administrative Approval Action

Case File / Name: ASR-0050-2022
DSLC - RALEIGH OAK CHARTER SCHOOL

City of Raleigh
Development Services Department
One Exchange Plaza
Raleigh, NC 27602
(919) 996-2492
currentplanning@raleighnc.gov
www.raleighnc.gov

LOCATION: This 7.5 acre site zoned OX-3 CU (Z-17-04) is located on the south side of Sungate Blvd on the southeastern corner of the intersection of Sungate Blvd and Stoney Moss Drive at 3400 Sungate Blvd.

REQUEST: Construction of a multi-story charter school building of 44,000 square feet in size with site work, parking and associated infrastructure.

**DESIGN
ADJUSTMENT(S)/
ALTERNATES, ETC:** FIL-0424-2023: DSENG - Fee-In-Lieu Estimator/Fee-In-Lieu Estimator

FINDINGS: City Administration finds that this request, with the below conditions of approval being met, conforms to the Unified Development Ordinance. This approval is based on a preliminary plan dated June 19, 2023 by Civil & Environmental Consultants, Inc..

CONDITIONS OF APPROVAL and NEXT STEPS:

This document must be applied to the second sheet of all future submittals except for final plats. This is a preliminary plan and as such no permits have been issued with this approval. To obtain permits and/or completion of the project, the following steps are required:

☒ **SITE PERMITTING REVIEW** - For land disturbance of 12,000 square feet or greater, public or private infrastructure, shared stormwater devices, etc. Site Permitting Review may be submitted upon receipt of this signed approval document.

The following items are required prior to approval of Site Permitting Review plans:

General

1. For clarification (see sheets LP-1 and LP-3) please label the required A2 protective yard along the southern and western borders - Show the required fence and label within the protective yard (between the required plant material and the adjacent property) AND provide a fence detail demonstrating compliance to 7.2.4 D 1 and D3, and 7.2.7 B.
2. Concurrent/SPR submittal must include both the Site Photometrics plan sheet and the Exterior Elevations plan sheet included in previous preliminary reviews (see Preliminary plan version 3) as well as ALL concurrent/SPR plan sheets submitted must be sealed.
3. Proposed and previously approved and SEALED elevations (see preliminary plan submittal v3) must be included in the concurrent submittal. As approved preliminary packet was missing elevations.

Stormwater

4. A surety equal to of the cost of clearing, grubbing and reseeding a site, shall be paid to the City (UDO 9.4.4).
5. A nitrogen offset payment must be made to a qualifying mitigation bank (UDO 9.2.2.B).
6. A stormwater control plan with a stormwater operations and maintenance manual and budget shall be approved (UDO 9.2).



Administrative Approval Action

Case File / Name: ASR-0050-2022
DSLC - RALEIGH OAK CHARTER SCHOOL

City of Raleigh
Development Services Department
One Exchange Plaza
Raleigh, NC 27602
(919) 996-2492
currentplanning@raleighnc.gov
www.raleighnc.gov

Urban Forestry

7. Tree protection fence must be inspected by Urban Forestry staff prior to the issuance of a grading permit.
8. Submit a final tree conservation plan that includes metes and bounds descriptions of all tree conservation areas and tree protection fencing as required (UDO 9.1.5).

☒ **LEGAL DOCUMENTS** - Email to legaldocumentreview@raleighnc.gov. Legal documents must be approved, executed, and recorded prior to or in conjunction with the recorded plat on which the associated easements are shown. Copies of recorded documents must be returned to the City within one business day of recording to avoid withholding of further permit issuance.

<input checked="" type="checkbox"/>	Right of Way Deed of Easement Required
-------------------------------------	---

<input checked="" type="checkbox"/>	Utility Placement Deed of Easement Required
-------------------------------------	--

☒ **RECORDED MAP(S)** - Submit plat to record new property lines, easements, tree conservation areas, etc.). Plats may be submitted for review when the Site Permitting Review plans, if required, have been deemed ready for mylar signature.

The following items must be approved prior to recording the plat:

General

1. The 25' Bicycle & Pedestrian Access Easement, as shown on the preliminary plan, shall be dedicated prior to, or in conjunction with the recording of a map in any phase affected by the multi-use path. Final alignment of the multi-use path is contingent upon approval by PRCR staff and the connection shall be built to COR Greenway Trail Standards.

Engineering

2. A 5' utility placement easement deed of easement, in addition to a plat showing the location of the easement, shall be submitted to the Planning and Development Services Department for review, and if acceptable, approved for recordation. Approved plats must be recorded at the Wake County Register of Deeds Office on or before the 14th day following approval by the City. The 14-day expiration date shall be clearly indicated on the plat. By the end of the next business day following recordation of the plat, all required legal instruments (including deeds of easement) shall be recorded, and recorded copies of the plat and all legal instruments required by the City in association with development approval shall be provided to the City. (Reference: UDO 8.1.7.A; 10.2.5.F.4.d)



Administrative Approval Action

Case File / Name: ASR-0050-2022
DSLC - RALEIGH OAK CHARTER SCHOOL

City of Raleigh
Development Services Department
One Exchange Plaza
Raleigh, NC 27602
(919) 996-2492
currentplanning@raleighnc.gov
www.raleighnc.gov

3. A public street right-of-way deed of easement, in addition to a plat showing the location of the easement, shall be submitted to the Planning and Development Services Department for review, and if acceptable, approved for recordation. Approved plats must be recorded at the Wake County Register of Deeds Office on or before the 14th day following approval by the City. The 14-day expiration date shall be clearly indicated on the plat. By the end of the next business day following recordation of the plat, all required legal instruments (including deeds of easement) shall be recorded, and recorded copies of the plat and all legal instruments required by the City in association with development approval shall be provided to the City. (Reference: UDO 8.1.7.A; 10.2.5.F.4.d)

Public Utilities

4. A Petition for Annexation into the City limits shall be submitted in accordance with City Council policy for extension of utility service to properties currently outside of the City limits. This voluntary annexation in no way obligates the City to extend utility services to the property.
5. Infrastructure Construction Plans (concurrent submittal) must be approved by the City of Raleigh Public Utilities Department for all public water, public sewer and/or private sewer extensions.

Stormwater

6. The riparian buffers, in accordance with the preliminary plan and the State of North Carolina regulations, shall be shown on plats for recording along with required buffer statement (Recorded Map Checklist).
7. All stormwater control measures and means of transporting stormwater runoff to and from any nitrogen and stormwater runoff control measures shall be shown on all plats for recording as private drainage easements (UDO 9.2).

☒ **BUILDING PERMITS** - For buildings and structures shown on the approved plans. Commercial building permit plans must include the signed, approved Site Permitting Review plans attached, if applicable. Permit sets may be reviewed prior to the recordation of required plats, but cannot be approved.

The following items must be approved prior to the issuance of building permits:

General

1. A Petition for Annexation into the City limits shall be submitted in accordance with City Council policy for extension of utility service to properties currently outside of the City limits. This voluntary annexation in no way obligates the City to extend utility services to the property.

Engineering

2. A fee-in-lieu for 6' wide sidewalk along Sungate Blvd frontage shall be paid to the City of Raleigh (UDO 8.1.10).

Stormwater



Administrative Approval Action

Case File / Name: ASR-0050-2022
DSLCL - RALEIGH OAK CHARTER SCHOOL

City of Raleigh
Development Services Department
One Exchange Plaza
Raleigh, NC 27602
(919) 996-2492
currentplanning@raleighnc.gov
www.raleighnc.gov

3. A surety equal to 125% of the cost of the construction of a stormwater device shall be paid to the Engineering Services Department (UDO 9.2.2.D.1.d).
4. A payment equal to twenty-four percent (24%) of the estimated cost of constructing all stormwater control facilities shown on the development plans shall be paid by the developer to the City stormwater facility replacement fund (UDO 9.2.2.G.3).

Urban Forestry

5. A tree conservation plat shall be recorded with metes and bounds showing the designated tree conservation areas (UDO 9.1). This development proposes 0.75 acres of tree conservation area.

The following are required prior to issuance of building occupancy permit:

General

1. Final inspection of all tree conservation areas by Urban Forestry Staff.

Stormwater

2. As-built drawings and associated forms for all Stormwater devices are accepted by the Engineering Services Department (UDO 9.2.2.D.3).

EXPIRATION DATES: The expiration provisions of UDO Section 10.2.8 E, including the ability to request extensions in the expiration date, apply to this site plan. If significant construction has not taken place on a project after administrative site review approval, that approval may expire and be declared void, requiring re-approval before permits may be issued. To avoid allowing this plan approval to expire the following must take place by the following dates:

3-Year Expiration Date: August 7, 2026

Obtain a valid building permit for the total area of the project, or a phase of the project.

4-Year Completion Date:

Within four years after issuance of the first building permit for the site plan, the construction of the entire site plan must be completed unless an applicant has been granted vested rights. Failure to complete construction within this specified time frame shall automatically void the approved site plan for which no building permits have been issued.

I hereby certify this administrative decision.

Signed: Daniel L. Stegall Date: 08/07/2023
Development Services Dir/Designee
Staff Coordinator: Michael Walters

Administrative Site Review Application

Planning and Development Customer Service Center • One Exchange Plaza, Suite 400 | Raleigh, NC 27601 | 919-996-2500



This form is required when submitting site plans as referenced in Unified Development Ordinance (UDO) Section 10.2.8. Please check the appropriate building types and include the plan checklist document when submitting.

Office Use Only: Case #: _____ Planner (print): _____

Please review UDO Section 10.2.8, as amended by text change case [TC-14-19](#) to determine the site plan tier. If assistance determining a Site Plan Tier is needed a Site Plan Tier Verification request can be submitted online via the [Permit and Development Portal](#). (Note: There is a fee for this verification service.)

Site Plan Tier: Tier Two Site Plan <input type="checkbox"/> Tier Three Site Plan <input checked="" type="checkbox"/>	
Building Type	Site Transaction History
<input type="checkbox"/> Detached	<input type="checkbox"/> General
<input type="checkbox"/> Attached	<input type="checkbox"/> Mixed use
<input type="checkbox"/> Apartment	<input type="checkbox"/> Open lot
<input type="checkbox"/> Townhouse	<input checked="" type="checkbox"/> Civic
Subdivision case #: _____	
Scoping/sketch plan case #: _____	
Certificate of Appropriateness #: _____	
Board of Adjustment #: _____	
Zoning Case #: Z-17-2004	
Administrative Alternate #: _____	

GENERAL INFORMATION

Development name: Raleigh Oak Charter School

Inside City limits? Yes ☒ No ☐

Property address(es): 3400 Sungate Blvd Raleigh, NC 27610

Site P.I.N (s): 1723477999

Please describe the scope of work. Include any additions, expansions, and change of use. Construction of multi story school building associated access drives, pick up lanes and parking. Construction of a multi use path for Raleigh Park Center Recreation is also included. Existing site is undeveloped.

Current Property Owner/Developer Contact Name: Jay Lemery (Developer)
NOTE: please attach purchase agreement when submitting this form.
Company: Parks Holdings, LLC Title: _____
Address: PO Box 2123
Phone #: 865.742.1993 Email: shadley@leeassociates.com
Applicant Name: Jay Lemery
Company: Performance Charter School Development Address: 10318 Lake Road, B102 Houston, Texas 77070
Phone #: 832-823-8200 Email: jlemery@performancecsd.com

Page 1 of 2

REVISION 02.19.21

raleighnc.gov

DEVELOPMENT TYPE + SITE DATA TABLE (Applicable to all developments)	
SITE DATA	BUILDING DATA
Zoning district (if more than one, please provide the acreage of each): OX-3-CU	Existing gross floor area (not to be demolished): 0 sf
Gross site acreage: 7.51	Existing gross floor area to be demolished: 0 sf
# of parking spaces required: No Maximum	New gross floor area: 44,000 sf
# of parking spaces proposed: 69	Total sf gross (to remain and new): 44,000 sf
Overlay District (if applicable): N/A	Proposed # of buildings: 1
Existing use (UDO 6.1.4): Undeveloped	Proposed # of stories for each: 3
Proposed use (UDO 6.1.4): School	

STORMWATER INFORMATION			
Existing Impervious Surface: Acres: 0 Square Feet: 0	Proposed Impervious Surface: Acres: 2.58 Square Feet: 113385		
Is this a flood hazard area? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
If yes, please provide: Alluvial soils: _____ Flood study: _____ FEMA Map Panel #: 3770172300J			
Neuse River Buffer Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wetlands Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		

RESIDENTIAL DEVELOPMENTS			
Total # of dwelling units: N/A	Total # of hotel units: N/A		
# of bedroom units: 1br N/A 2br N/A 3br N/A 4br or more N/A			
# of lots: N/A	Is your project a cottage court? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

SIGNATURE BLOCK	
The undersigned indicates that the property owner(s) is aware of this application and that the proposed project described in this application will be maintained in all respects in accordance with the plans and specifications submitted herewith, and in accordance with the provisions and regulations of the City of Raleigh Unified Development Ordinance.	
I, <u>George Genero</u> will serve as the agent regarding this application, and will receive and respond to administrative comments, resubmit plans and applicable documentation, and will represent the property owner(s) in any public meeting regarding this application.	
I/we have read, acknowledge, and affirm that this project is conforming to all application requirements applicable with the proposed development use. I acknowledge that this application is subject to the filing calendar and submittal policy, which states applications will expire after 180 days of inactivity.	
Signature: <u>George Genero</u>	Date: 6/21/2022
Printed Name: George Genero	

Page 2 of 2

REVISION 02.19.21

raleighnc.gov

REFERENCE

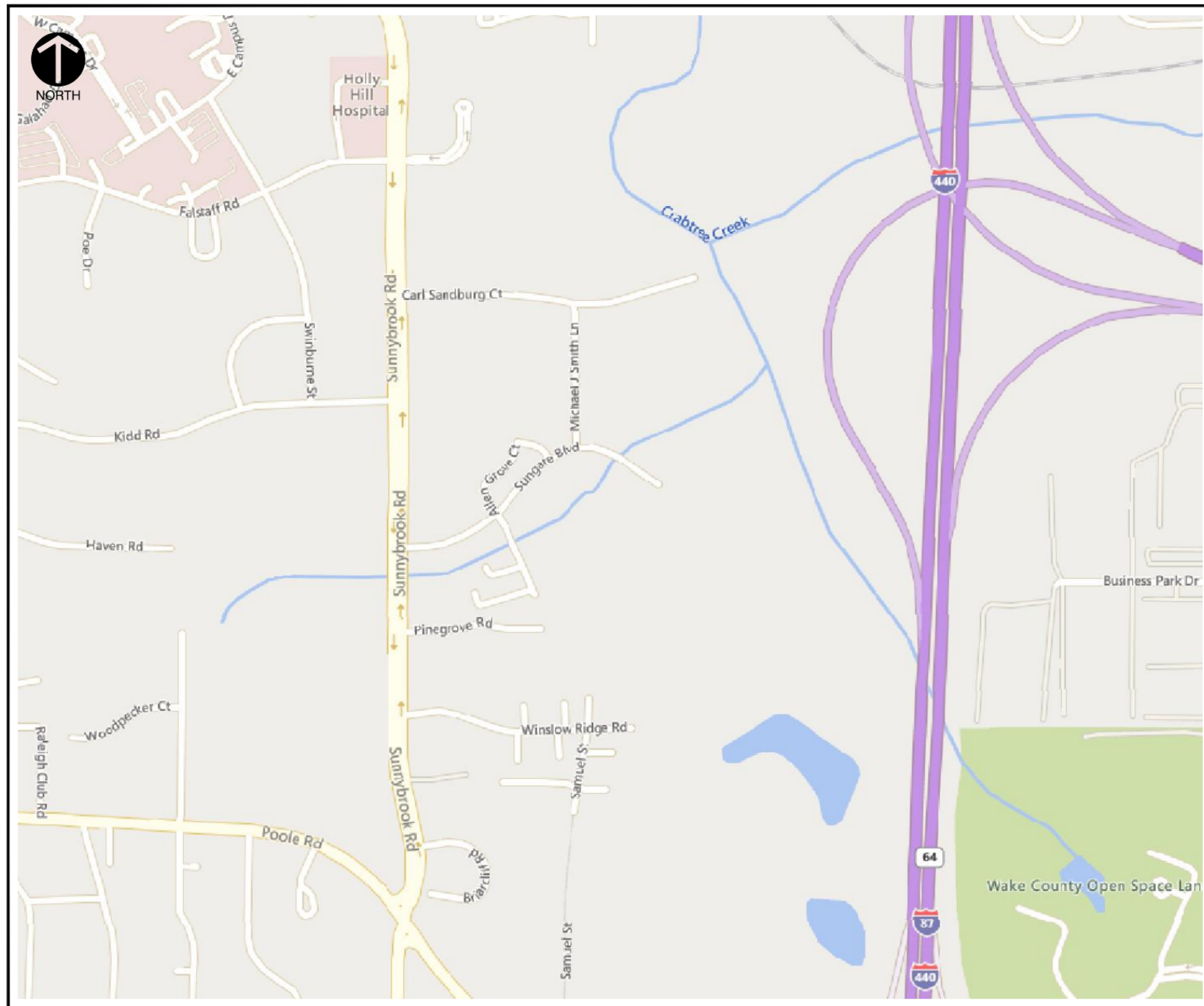
1. SURVEY PERFORMED BY FREELAND & ASSOCIATES, INC. ON 12-13-2021 AND PROVIDED BY CLIENT.

RALEIGH OAK CHARTER SCHOOL

3400 SUNGATE BOULEVARD RALEIGH, NC 27610

ASR-0050-2022

ZONE: OX-3-CU
USE: EDUCATION K-8
PIN: 1723477999
PROJECT AREA: 7.55 AC
MAY 2023



VICINITY MAP
SCALE: 1"=500'

SCALE IN FEET
0 500 1000

ZONING USE STANDARDS

1. MEET THE CURRICULAR TEACHING CERTIFICATION OF INSTRUCTION APPROVED BY THE STATE BOARD OF EDUCATION
THE SCHOOL HAS THE REQUIRED CERTIFICATIONS AND IS ALREADY IN OPERATION
2. BE LOCATED ON A LOT WITH TOTAL AREA OF 500 SF AREA PER ENROLLED PUPIL UNLESS WITHIN A DX-DISTRICT IN WHICH CASE NO MINIMUM AREA PER PUPIL SHOULD BE ALLOWED.
THE SCHOOL IS ANTICIPATED TO SERVE 647 STUDENTS, WHICH EQUATES TO 506 SF OF AREA PER STUDENT
3. BE LOCATED OUTSIDE ANY AIRPORT OVERLAY DISTRICT OR PRIMARY RESERVOIR WATERSHED PROTECTION AREA.
THE SITE IS NOT LOCATED IN ANY OVERLAY DISTRICT OR WATERSHED PROTECTION AREA PER RALEIGH IMAP INFORMATION.
4. THE ADDITIONAL TRAFFIC GENERATED TO AND FROM THE SITE DURING PEAK TRAVEL PERIODS, COMBINED WITH THE BACKGROUND TRAFFIC VOLUME TRAVELING ON THE ROADWAY WOULD NOT REDUCE THE ROADWAY OR NEARBY INTERSECTIONS' CAPACITY BELOW LEVEL-OF-SERVICE "D" AS DEFINED IN THE HIGHWAY CAPACITY MANUAL, 1994.
BASED ON THE TRAFFIC IMPACT ANALYSIS REPORT FOR THE DEVELOPMENT, THE ADJACENT INTERSECTIONS WOULD OPERATE AT LOS D OR BETTER BASED ON THE ASSUMPTIONS IN THE TIA REPORT (STAGGERED BELL SCHEDULES). THE INTERSECTION OF SUNNYBROOK ROAD AND SUNGATE BOULEVARD COULD WARRANT A TRAFFIC SIGNAL AT SOME POINT IN THE FUTURE BUT THIS WOULD TYPICALLY BE MONITORED BY THE CITY TO DETERMINE IF A SIGNAL IS WARRANTED. NCDOT HAS REVIEWED THE TIA AND ARE NOT REQUIRING ANY OFF-SITE IMPROVEMENTS.
5. IN A RESIDENTIAL DISTRICT, A TYPE A1 OR A2 TRANSITIONAL PROTECTIVE YARD (SEE SEC. 7.2.4.A) MUST BE ESTABLISHED ALONG ANY SIDE OF THE PROPERTY ABUTTING ANY RESIDENTIAL USE.
A TYPE A2 YARD WITH PROPOSED FENCING, AVERAGING 12'-FT WIDE IS PROPOSED ALONG THE SOUTH AND WEST PROPERTY BOUNDARIES, ADJACENT TO THE RESIDUAL PROPERTIES. THE A2 PROTECTIVE YARDS INCLUDE THE REQUIRED FENCING.
6. IN A RESIDENTIAL DISTRICT, A TYPE C2 STREET PROTECTIVE YARD (SEE SEC. 7.2.4.B) MUST BE ESTABLISHED ALONG ALL PROPERTY LINES ABUTTING A PUBLIC RIGHT OF WAY.
A TYPE C2 STREET PROTECTIVE YARD IS PROPOSED ALONG THE RIGHT OF WAY

DRAWING INDEX		
SHEET NUMBER	DRAWING NUMBER	SHEET TITLE
1	C000	COVER SHEET
2	C100	EXISTING CONDITIONS & DEMOLITION PLAN
3	C200	OVERALL SITE LAYOUT
4	C300	OVERALL GRADING PLAN
5	C400	STORMWATER MANAGEMENT PLAN
6	C401	STORMWATER WETLAND PLAN
7	C500	UTILITY PLAN
8	C501	FIRE ACCESS PLAN
9	TCA-1	TREE CONSERVATION AREAS
10	TCA-2	TREE INVENTORY AND PROTECTION DETAILS
11	TCA-3	TREE INVENTORY
12	LP-1	PLANTING PLAN
13	LP-2	PLANTING PLAN
14	LP-3	PLANTING PLAN
15	LP-4	PLANTING DETAILS AND SPECIFICATIONS
16	E102	SITE PHOTOMETRICS
17	A501	EXTERIOR ELEVATIONS

LEGEND

- EXISTING ADJACENT PROPERTY LINE
- EXISTING PROPERTY PARCEL BOUNDARY
- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING WATER MAIN
- EXISTING UNDERGROUND POWER LINE
- EXISTING WETLAND
- EXISTING PAVEMENT TO BE REMOVED
- PROPOSED CONCRETE SIDEWALK
- PROPOSED ASPHALT PAVEMENT
- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PROPOSED DRAINAGE AREA TO BMP
- FLOW DIRECTION

OWNER/TEAM INFORMATION

CIVIL ENGINEER

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
530 HOWELL ROAD SUITE 203
GREENVILLE, SOUTH CAROLINA 29615
PH: (864) 626-3140 (OFFICE)
CONTACT: CHRISTIAN ALONSO, P.E.
EMAIL: CALONSO@CECINC.COM

ARCHITECT

MUSSMAN ARCHITECTS
610 N MAIN ST
GREENVILLE, SC 29601
MOLLIE GREENE, NCARB
DIRECTOR OF DESIGN
OFFICE: (864) 626-6330 EXT 1009
CELL: (864) 609-7769

CONTRACTOR

OMEGA CONSTRUCTION, INC.
1100 SOUTH STRATFORD ROAD,
BUILDING C, SUITE 110
WINSTON-SALEM, NC 27103
PH:
CONTACT: LEE COOK, EXEC. VP
EMAIL:

DEVELOPER

PERFORMANCE CHARTER SCHOOL
DEVELOPMENT
JAY LEMERY
DIRECTOR OF FACILITY DEVELOPMENT
MOBILE: (832) 823-8200
DIRECT: (281) 581-0708
JLEMERY@PERFORMANCECSD.COM

OWNER

RALEIGH OAK CHARTER SCHOOL
9400 FORUM DR
RALEIGH, NC 27615

SUBMITTAL & REVISION RECORD

NO	DATE	DESCRIPTION
1	2/3/2023	ASR RESUBMITTAL #1
2	4/3/2023	ASR RESUBMITTAL #2
3	6/19/2023	ASR RESUBMITTAL #3

Civil & Environmental Consultants, Inc.
3701 Arco Corporate Drive - Suite 400 - Charlotte, NC 28273
Ph: 980.237.0373 - Fax: 980.237.0372
www.cecinc.com

PERFORMANCE CHARTER SCHOOL DEVELOPMENT
RALEIGH OAK ACADEMY
3400 SUNGATE BLVD
RALEIGH, NORTH CAROLINA

COVER SHEET

DATE:	JUNE 2023	DRAWN BY:	MRS
DWG SCALE:	AS SHOWN	CHECKED BY:	MSJ
PROJECT NO:	327-745	APPROVED BY:	GAG

DRAWING NO.:

C000

GENERAL NOTES

1. EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT FROM THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

2. EXISTING SITE INFORMATION / TOPOGRAPHIC SURVEY WAS PREPARED BY <NAME OF SURVEYOR>, DATED <DATE>. CEC IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN

3. THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES (INCLUDING THOSE LABELED PER RECORD DATA) PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS. INFORM ENGINEER OF ANY CONFLICTS DETRIMENTAL TO THE DESIGN INTENT.

4. <NUMBER> HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES: THE <STATE> UTILITY PROTECTION SERVICES, AND ALL OTHER AGENCIES THAT MAY HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NON-MEMBERS OF <STATE> UNDERGROUND PROTECTION, INC.

5. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COMPLYING WITH APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTORS TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.

6. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND OWNER'S REPRESENTATIVE FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES OCCURRING IN THE COURSE OF THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.

7. CONTRACTOR SHALL OBTAIN A PERMIT FOR ALL CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH LOCAL, STATE, & FEDERAL REGULATIONS.

8. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES, OBTAIN ALL APPLICABLE PERMITS, AND PAY ALL REQUIRED FEES PRIOR TO BEGINNING WORK.

9. ANY WORK PERFORMED IN THE LOCAL OR STATE RIGHT OF WAYS SHALL BE IN ACCORDANCE WITH THE APPLICABLE LOCAL OR STATE REQUIREMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY PERMITS FOR THE WORK, SCHEDULE NECESSARY INSPECTIONS, AND PROVIDE THE NECESSARY TRAFFIC CONTROL MEASURES AND DEVICES, ETC., FOR WORK PERFORMED IN THE RIGHT OF WAYS.

10. THE CONTRACTOR IS TO PERFORM ALL INSPECTIONS AS REQUIRED BY THE <STATE> EPA FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND FURNISH OWNERS REPRESENTATIVE WITH WRITTEN REPORTS. <OWNER> WILL OBTAIN NPDES PERMIT.

11. CONTRACTOR SHALL IMPLEMENT ALL SOIL AND EROSION CONTROL, PRACTICES REQUIRED BY <CITY/COUNTY> AND THE <STATE> EPA.

12. ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH SPECIFICATIONS. IF NO SPECIFICATIONS ARE SUPPLIED, USE STATE OF <STATE> SPECIFICATIONS ITEM <NO.>.

13. ITEM NUMBERS REFER TO THE <STATE> DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, AND ALL CONSTRUCTION WORK SHALL BE DONE ACCORDING TO SAID SPECIFICATIONS AND IN ACCORDANCE WITH APPLICABLE STANDARDS OF <COUNTY/CITY>. WHEN IN CONFLICT, THE COUNTY REQUIREMENTS SHALL PREVAIL.

14. ALL WORK PERFORMED BY THE CONTRACTOR SHALL CONFORM TO THE LATEST REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT.

15. THE CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.

16. BEFORE INSTALLATION OF STORM OR SANITARY SEWER, OR OTHER UTILITY, THE CONTRACTOR SHALL VERIFY ALL CROSSINGS, BY EXCAVATION WHERE NECESSARY, AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS. THE ENGINEER WILL BE HELD HARMLESS IN THE EVENT HE IS NOT NOTIFIED OF DESIGN CONFLICTS PRIOR TO CONSTRUCTION.

17. ADJUST/RECONSTRUCT ALL EXISTING CASTINGS, CLEANOUTS, ETC. WITHIN PROJECT AREA TO GRADE AS REQUIRED.

18. CONTRACTOR TO REMOVE & REPLACE PAVEMENT AS SPECIFIED.

19. ALL STANDARD PARKING PLACES ARE DIMENSION' BY DIMENSION'.

20. SITE SIGNAGE AND STRIPING SHALL BE IN ACCORDANCE WITH THE <STATE> MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

21. CONCRETE WALKS SHALL BE <THICKNESS>" THICK OVER <THICKNESS>" COMPACTED GRAVEL WITH CONTROL JOINTS EQUALLY SPACED AT NO MORE THAN <WIDTH>" ON CENTER, EXPANSION JOINTS AT NO MORE THAN <SPACING>" ON CENTER. ALL SIDEWALKS ARE TO BE BROOM FINISHED.

DEMOLITION NOTES

1. ALL EXISTING ABOVE AND BELOW GROUND STRUCTURES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED UNLESS NOTED OTHERWISE WITHIN THIS CONSTRUCTION SET AND/OR PROJECT SPECIFICATIONS. THIS INCLUDES FOUNDATION SLABS, WALLS AND FOOTINGS. CAVITIES LEFT BY STRUCTURE REMOVAL SHALL BE BACKFILLED WITH SATISFACTORY MATERIALS AND COMPACTED TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATION.

2. CLEARING LIMITS SHALL BE PHYSICALLY MARKED IN THE FIELD BY THE <CONTRACTOR/OWNER>.

3. NO TREES SHALL BE REMOVED, NOR VEGETATION DISTURBED BEYOND THE LIMITS OF CONSTRUCTION WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE OWNER'S REPRESENTATIVE.

4. TREE PROTECTION FENCING SHALL BE IN ACCORDANCE WITH THE <CITY/COUNTY> STANDARDS – OR – IN ACCORDANCE WITH THE DETAILED DRAWINGS. DO NOT OPERATE OR STORE EQUIPMENT, NOR HANDLE OR STORE MATERIALS WITHIN THE DRIP LINES OF THE TREES SHOWN TO REMAIN.

5. PROTECTION OF EXISTING TREES AND VEGETATION: PROTECT EXISTING TREES AND OTHER VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN DRIP LINE, EXCESS FOOT OR VEHICULAR TRAFFIC, OR PARKING OF VEHICLES WITHIN DRIP LINE. PROVIDE TEMPORARY GUARDS TO PROTECT TREES AND VEGETATION TO BE LEFT STANDING.

6. ALL DEMOLITION WASTE AND CONSTRUCTION DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED AND SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFFSITE IN A STATE APPROVED WASTE SITE AND IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR DAMAGE ACCORDING TO THE APPROPRIATE UTILITY COMPANY STANDARDS AND AT THE CONTRACTOR'S EXPENSE.

7. ALL UTILITY DISCONNECTION, REMOVAL, RELOCATION, CUTTING, CAPPING AND/OR ABANDONMENT SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY / AGENCY. UTILITY CONTACTS ARE LISTED ON THE COVER SHEET.

8. THE BURNING OF CLEARED MATERIAL AND DEBRIS SHALL NOT BE ALLOWED UNLESS CONTRACTOR OBTAINS PRIOR WRITTEN AUTHORIZATION FROM THE LOCAL AUTHORITIES.

9. EROSION & SEDIMENT CONTROL MEASURES AROUND AREAS OF DEMOLITION SHALL BE PROPERLY INSTALLED AND FUNCTION PROPERLY PRIOR TO INITIALIZATION OF DEMOLITION ACTIVITIES.

10. ASBESTOS OR HAZARDOUS MATERIALS ARE <NOT EXPECTED/ANTICIPATED>, IF FOUND ON SITE, SUCH MATERIALS SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIALS CONTRACTOR. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY IF HAZARDOUS MATERIALS ARE ENCOUNTERED.

11. CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, FEDERAL AND OSHA REGULATIONS DURING ALL DEMOLITION ACTIVITIES.

12. CONTRACTOR SHALL PROTECT ALL CORNER PINS, MONUMENTS, PROPERTY CORNERS AND BENCHMARKS DURING DEMOLITION ACTIVITIES. IF DISTURBED, CONTRACTOR SHALL HAVE DISTURBED ITEMS RESET BY A LICENSED SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.

13. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES, STRUCTURES, AND FEATURES TO REMAIN. ANY ITEMS TO REMAIN THAT HAVE BEEN DISTURBED OR DAMAGED AS A RESULT OF CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE.

14. CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH STATE DEPARTMENT OF TRANSPORTATION REGULATIONS AND AS REQUIRED BY LOCAL AGENCIES WHEN WORKING IN AND/OR ALONG STREETS, ROADS, HIGHWAYS, ETC.. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL AND COORDINATE WITH LOCAL AND/OR STATE AGENCIES REGARDING THE NEED, EXTENT AND LIMITATIONS ASSOCIATED WITH INSTALLING AND MAINTAINING TRAFFIC CONTROL MEASURES.

15. PROVIDE NEAT, STRAIGHT, FULL DEPTH, SAW CUTS OF EXISTING PAVEMENT WHERE INDICATED ALONG LIMITS OF PAVEMENT DEMOLITION.

16. ALL UTILITY AND STRUCTURE REMOVAL, RELOCATION, CUTTING, CAPPING AND/OR ABANDONMENT SHALL BE COORDINATED AND PROPERLY DOCUMENTED BY A CERTIFIED PROFESSIONAL, WHEN APPLICABLE, WITH THE APPROPRIATE UTILITY COMPANY, MUNICIPALITY AND/OR AGENCY. DEMOLITION OF REGULATED ITEMS MAY INCLUDE, BUT ARE NOT LIMITED TO WELLS, ASBESTOS, UNDER GROUND STORAGE TANKS, SEPTIC TANKS AND ELECTRIC TRANSFORMERS. DEMOLITION CONTRACTOR SHALL REFER TO ANY ENVIRONMENTAL STUDIES FOR DEMOLITION RECOMMENDATIONS AND GUIDANCE. AVAILABLE ENVIRONMENTAL STUDIES MAY INCLUDE, BUT ARE NOT LIMITED TO PHASE I ESA, PHASE II, WETLAND AND STREAM DELINEATION AND ASBESTOS SURVEY. ALL APPLICABLE ENVIRONMENTAL STUDIES SHALL BE MADE AVAILABLE UPON REQUEST.

17. ALL PAVEMENT, BASE COURSES, SIDEWALKS, CURBS, BUILDINGS, FOUNDATIONS, ETC., WITHIN THE AREA TO BE DEMOLISHED SHALL BE REMOVED TO FULL DEPTH. EXISTING BASE COURSE MATERIALS MAY BE WORKED INTO THE NEW PAVEMENT OR BUILDING SUBGRADE IF THE GRADATION, CONSISTENCY, COMPACTION, SUBGRADE CONDITION, ETC., ARE IN ACCORDANCE WITH THE SPECIFICATIONS AND RECOMMENDATIONS OF THE REPORT OF GEOTECHNICAL INVESTIGATION. BASE COURSE MATERIALS SHALL NOT BE WORKED INTO THE SUBGRADE AREAS TO RECEIVE LANDSCAPING.

18. THE CONTRACTOR SHALL USE SUITABLE METHODS TO CONTROL DUST AND DIRT CAUSED BY THE DEMOLITION ACTIVITIES.

LAYOUT NOTES

1. THE CONTRACTOR SHALL CHECK EXISTING GRADES, DIMENSIONS, AND INVERTS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING WORK.

2. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES, INCLUDING IRRIGATION LINES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN, RELOCATE EXISTING UTILITIES AS INDICATED, OR AS NECESSARY FOR CONSTRUCTION.

3. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT. FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY. INSTALL ALL UTILITIES, INCLUDING IRRIGATION SLEEVING, PRIOR TO INSTALLATION OF PAVED SURFACES.

4. THE CONTRACTOR SHALL PROTECT ALL TREES TO REMAIN IN ACCORDANCE WITH THE SPECIFICATIONS.

5. SITE WORK CONCRETE WALKS AND PADS SHALL HAVE A BROOM FINISH TO ALL SURFACES. SITE WORK CONCRETE SHALL BE CLASS <CLASS> (<STRENGTH> PSI @ 28 DAYS) UNLESS OTHERWISE NOTED.

6. ALL DAMAGE TO EXISTING PAVEMENT TO REMAIN, WHICH RESULTS FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH LIKE MATERIALS AT THE CONTRACTOR'S EXPENSE.

7. SITE DIMENSIONS SHOWN ARE TO THE <FACE/BACK> OF CURB, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

8. COORDINATES ARE FOR BUILDING COLUMNS, EXTERIOR BUILDING WALL, CENTER OF DRIVEWAYS, CENTER OF SANITARY SEWER MANHOLES, AND CENTER OF STRUCTURE PLACED SIX INCHES INSIDE FACE OF CURB FOR DRAIN INLETS, UNLESS OTHERWISE NOTED.

9. CONTRACTOR SHALL MAINTAIN ONE SET OF AS-BUILT / RECORD DRAWINGS ON-SITE DURING CONSTRUCTION FOR DISTRIBUTION TO THE OWNER AND/OR OWNER'S REPRESENTATIVE UPON COMPLETION.

10. REFER TO THE ARCHITECTURAL, PLUMBING & ELECTRICAL DRAWINGS FOR EXACT DIMENSIONS AND LOCATIONS OF UTILITY SERVICE ENTRY LOCATIONS AND PRECISE BUILDING DIMENSIONS.

11. THIS SITE LAYOUT IS SPECIFIC TO THE APPROVALS NECESSARY FOR THE CONSTRUCTION IN ACCORDANCE WITH THE <CITY OF <NAME>. NO CHANGES TO THE SITE LAYOUT ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. CHANGES MADE TO THE SITE LAYOUT WITHOUT APPROVAL IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. CHANGES INCLUDE BUT ARE NOT LIMITED TO, INCREASED IMPERVIOUS PAVEMENT, ADDITION / DELETION OF PARKING SPACES, MOVEMENT OF CURB LINES, CHANGES TO DRAINAGE STRUCTURES AND PATTERNS, LANDSCAPING, ETC.

GRADING NOTES

1. ALL PROPOSED GRADES SHOWN ARE FINAL GRADES, TOP OF GROUND LEVEL, OR TOP OF PAVEMENT, OR GRATE ELEVATION AT THE DRAWDOWN POINT, UNLESS INDICATED OTHERWISE.

2. REFER TO AND FOLLOW THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT BY <NAME OF COMPANY> TITLED <NAME> AND DATED <DATE>.

3. SITE BUILDING PAD EXCAVATION AND CONSTRUCTION TO BE PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS (REPORT DATED: <DATE>). BUILDING PAD PREPARATION SHALL BEGIN BY CLEARING & STRIPPING UNSUITABLE MATERIAL FROM PAD SITE, THEN PLACEMENT & COMPACTION OF BACKFILL MATERIAL PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. ALL BACKFILL MATERIAL MUST BE ACCEPTABLE TO THE GEOTECHNICAL ENGINEER.

4. ALL FILL UNDER PAVEMENT SHALL BE COMPACTED TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. (REPORT DATED: <DATE>).

5. ALL ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS.

6. CONTRACTOR SHALL STRICTLY ADHERE TO THE EROSION & SEDIMENT CONTROL PLAN PREPARED FOR THIS PROJECT.

7. EARTHWORK SHALL INCLUDE CLEARING AND GRUBBING, STRIPPING AND STOCKPILING TOPSOIL, MASS GRADING, EXCAVATION, FILLING, UNDER CUT AND REPLACEMENT, IF REQUIRED, AND COMPACTION.

8. CONTRACTOR TO REFILL UNDERCUT AREAS WITH SUITABLE MATERIAL AND COMPACT AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.

9. PLACE TOPSOIL OVER THE SUBGRADE OF UNPAVED, DISTURBED AREAS TO A DEPTH INDICATED ON THE LANDSCAPE PLANS (6" MINIMUM).

10. PAVEMENT SLOPES ACROSS ACCESSIBLE PARKING STALLS AND ADJOINING ACCESS AISLES SHALL BE MAXIMUM 2% AND SHALL CONFORM TO THE LATEST REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT.

11. ALL SLOPES IN NON-PAVED AREAS SHALL BE <DIST>:<DIST> (HORIZONTAL-VERTICAL) MAXIMUM UNLESS NOTED OTHERWISE.

12. ALL AREAS NOT PAVED SHALL BE STABILIZED IN ACCORDANCE WITH THE EROSION & SEDIMENT CONTROL PLAN, UNLESS NOTED OTHERWISE.

13. COMPACTED FILLS ARE TO BE MADE TO A MINIMUM OF <THREE FEET> ABOVE THE CROWN OF ANY PROPOSED SEWER PRIOR TO CUTTING OF TRENCHES FOR PLACEMENT OF SAID SEWERS. ALL FILLS SHALL BE CONTROLLED, COMPACTED, AND INSPECTED BY AN APPROVED TESTING LABORATORY OR AN INSPECTOR FROM THE APPROPRIATE GOVERNMENTAL AGENCY.

14. ALL EXCESS SOIL MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFFSITE AT NO ADDITIONAL COST TO THE OWNER IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.

15. THE CONTRACTOR IS RESPONSIBLE FOR BALANCING THE SITE EARTHWORK BY IMPORTING OR EXPORTING AS NECESSARY TO ACHIEVE DESIGN GRADES AND SPECIFICATIONS.

16. TOPSOIL VOLUMES ESTIMATED AS PART OF THIS PROJECT ASSUME THAT A MINIMUM OF 12 INCHES OF SOIL AND TOPSOIL WILL BE STRIPPED FROM THE SITE. THE ACTUAL VOLUME WILL BE BASED ON EQUIPMENT USED AND THE CONTRACTOR'S MEANS AND METHODS. CEC AND THE OWNER ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S INTERPRETATION OF TOPSOIL THICKNESS AND RESULTING INCREASED VOLUMES. NO ADDITIONAL COSTS WILL BE PAID TO THE CONTRACTOR FOR AN INCREASE IN THE VOLUME OF TOPSOIL STRIPPED AND STOCKPILED.

STORM DRAINAGE NOTES

11. DISTANCES SHOWN ON PIPING ARE HORIZONTAL DISTANCES FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE INSTALLATION, INSPECTION, TESTING AND FINAL ACCEPTANCE OF ALL NEW STORMWATER MANAGEMENT FACILITIES CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH ALL APPLICABLE REGULATING AGENCIES CONCERNING INSTALLATION, INSPECTION AND APPROVAL OF THE STORM DRAINAGE SYSTEM CONSTRUCTION.

13. ALL STORMWATER MANAGEMENT FACILITIES, INCLUDING COLLECTION AND CONVEYANCE STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES AND REGULATIONS.

14. ALL CATCH BASINS IN THE PAVEMENT OR CURB ARE TO HAVE A MINIMUM OF ONE, 4" PERFORATED UNDERDRAIN EXTENDING 10 LF FROM THE CATCH BASIN IN THE UPHILL DIRECTION. SEE DETAIL ON SHEET <SHEET>.

15. ANY FIELD TILE CUT IN EXCAVATION, WHICH DRAINS AN OFFSITE AREA, MUST BE TIED INTO THE STORM DRAINAGE SYSTEM.

16. FOR EXACT LOCATION OF DOWN SPOUTS & ROOF DRAINS, CONTRACTOR IS TO COORDINATE WITH ARCHITECTURAL AND PLUMBING DRAWINGS.

17. ALL PROPOSED STORM SEWERS, SURFACE OR OTHER DRAINAGE FACILITIES ARE TO BE PRIVATE AND MAINTAINED BY THE OWNER.

18. THE CONTRACTOR IS TO CONSTRUCT CURBS, CATCH BASINS, DOWNSPOUTS, PIPING AND CONNECTION ETC. AS REQUIRED TO CONVEY THE ROOF AND PAVED SURFACE DRAINAGE TO THE DETENTION BASIN.

19. ALL STORM STRUCTURES ARE <STATE> DOT TYPES UNLESS OTHERWISE INDICATED.

20. ALL CATCH BASINS AND MANHOLES WITH A DEPTH GREATER THAN <4'> SHALL BE PROVIDED WITH STEPS. STEPS SHALL MEET THE REQUIREMENTS OF <STATE OR CITY DOT> SPECIFICATION ITEM <NUMBER>.

21. STORM SEWER PIPE LABELED "<STM>" SHALL BE ONE OF THE FOLLOWING: PVC SDR-35, PVC PROFILE PIPE PER <STATE OR CITY DOT NO.>, HIGH DENSITY POLYETHYLENE PER <STATE OR CITY DOT NO.>, OR CONTECH ULTRA FLO ALUMINIZED CORRUGATED METAL, <STATE OR CITY DOT NO.>. STORM SLEWER PIPE LABELED "ROP" SHALL BE REINFORCED CONCRETE PIPE, <STATE OR CITY DOT NO.>. ALL STORM IS TO BE INSTALLED PER <STATE OR CITY DOT NO.>.

22. STORM SEWER IS TO BE BEDDED WITH CLEAN GRANULAR MATERIAL-AGGREGATES <NOT TO BE LARGER THAN 3/4" AND NOT SMALLER THAN NO. 8 SIEVE, FREE OF SILT AND FINES, AASHTO M43 SIZE #67, 7 OR 8. BEDDING TO BE MINIMUM OF 6" BELOW & 12" / PER STATE OR CITY DOT NO.> ABOVE THE PIPE.

UTILITY NOTES

1. ALL PROPOSED UTILITY LINES AND EXTENSIONS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE <NAME> UTILITY AGENCY / DISTRICT / MUNICIPALITY / COMPANY SPECIFICATIONS. CONTRACTOR SHALL COORDINATE UTILITY DISCONNECTIONS WITH THE APPROPRIATE AGENCY.

2. PROVIDE <SIZE> STORZ FIRE DEPARTMENT CONNECTION WITH 30 DEGREE TURN DOWN PER LOCAL FIRE DEPARTMENT REQUIREMENTS. UNDERGROUND PIPING SERVING REMOTE FIRE DEPARTMENT CONNECTION SHALL BE DUCTILE IRON PIPING WITH RUBBER-GASKET PUSH-ON JOINTS. ABOVE GROUND PIPING AT LOCATION OF FIRE DEPARTMENT CONNECTION SHALL BE GALVANIZED, PROVIDE FLANGE ABOVE GRADE AT TRANSITION. PROVIDE CONCRETE THRUST BLOCKING AT ALL CHANGES OF DIRECTION AND MOUNT FIRE DEPARTMENT CONNECTION PIPING IN A 12" X 12" CONCRETE PAD 4" THICK. PROVIDE BALL DRIP VALVE AT BASE OF VERTICAL PIPING SERVING FIRE DEPARTMENT CONNECTION AND SURROUND WITH PEA GRAVEL.

3. THE CONTRACTOR IS PARTICULARLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF THE EXISTING UTILITIES SHOWN HEREON IS BASED ON TOPOGRAPHIC SURVEYS AND RECORD DRAWINGS. THE CONTRACTOR SHALL NOT RELY UPON THIS INFORMATION AS BEING EXACT OR COMPLETE. SHOULD UNCHARTED UTILITIES BE ENCOUNTERED DURING EXCAVATION OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AS SOON AS POSSIBLE FOR INSTRUCTIONS. THE CONTRACTOR SHALL CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION AND REQUEST FIELD VERIFICATION OF UTILITY LOCATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE EXISTING UTILITIES CONFLICTING WITH IMPROVEMENTS SHOWN HEREON IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.

4. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

5. MAINTAIN MINIMUM 10-FOOT HORIZONTAL AND 18-INCH MINIMUM VERTICAL SEPARATION BETWEEN SANITARY SEWER, STORM SEWER AND WATER SUPPLY LINE, UNLESS OTHERWISE INDICATED.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SEQUENCING OF CONSTRUCTION FOR ALL UTILITY LINES SO THAT WATER LINES, GAS LINES, AND UNDERGROUND ELECTRIC DO NOT CONFLICT WITH SANITARY SEWERS OR STORM SEWERS. INSTALL UTILITIES PRIOR TO PAVEMENT CONSTRUCTION.

7. ALL TRENCH SPOILS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFFSITE AT NO ADDITIONAL COST TO THE OWNER IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.

8. SANITARY SEWER SHALL BE <PVC-SDR 35 PER ASTM D-3034> OR APPROVED EQUAL (CONFORMING TO <NAME> CITY OR COUNTY WATER & SEWER DEPARTMENT RULES AND REGULATIONS) INSTALLED AT A MINIMUM SLOPE OF ONE PERCENT (1.00%) UNLESS OTHERWISE NOTED. SANITARY SERVICE SHALL BE INSTALLED AT A MINIMUM DEPTH OF FOUR FEET (4') UNLESS OTHERWISE NOTED. A MINIMUM OF 18" CLEARANCE SHALL BE MAINTAINED AT ALL WATERLINE & STORM SEWER CROSSINGS. SANITARY SERVICE JOINTS ALL CONFORM TO ASTM D-3212.

9. SANITARY SEWER IS TO BE BEDDED WITH CLEAN GRANULAR MATERIAL-AGGREGATES <NOT TO BE LARGER THAN 3/4" AND NOT SMALLER THAN NO. 8 SIEVE, FREE OF SILT AND FINES, AASHTO M43 SIZE #67, 7 OR 8. BEDDING TO BE MINIMUM OF 6" BELOW & 12" / PER STATE OR CITY DOT NO.> ABOVE THE PIPE.

10. DISTANCES SHOWN FOR BOTH SANITARY AND STORM SEWER PIPES ARE MEASURED FROM CENTER OF STRUCTURE, CONTRACTOR RESPONSIBLE FOR ACTUAL FIELD CUT LENGTH. COORDINATES FOR STORM & SANITARY STRUCTURES ARE SHOWN TO THE CENTER STRUCTURE. UNLESS OTHERWISE NOTED.

11. ROOF DRAINS, FOUNDATION DRAINS AND ALL OTHER CLEAR WATER CONNECTIONS TO THE SANITARY SEWER SYSTEMS ARE PROHIBITED.

12. ADJUST ALL EXISTING UTILITY SURFACE FEATURES INCLUDING BUT NOT LIMITED TO CASTINGS, VALVE BOXES, PEDESTALS, CLEANOUTS, ETC. TO MATCH PROPOSED FINISHED GRADES, UNLESS OTHERWISE INDICATED.

13. THE CONTRACTOR SHALL PROVIDE RECORD DRAWINGS OF ALL IMPROVEMENTS. INCLUDE AT LEAST TWO DIMENSIONS TO EACH VALVE AND MANHOLE FROM KNOWN SITE FEATURES. DRAWINGS SHALL INCLUDE HORIZONTAL AND VERTICAL INFORMATION ON ALL NEW UTILITIES AS WELL AS EXISTING UTILITIES ENCOUNTERED.

14. MECHANICAL/ELECTRICAL CONTRACTORS SHALL BRING ALL UTILITIES 5' OUTSIDE BUILDING WALL. COORDINATE WITH <CONSTRUCTION MANAGER/ARCHITECT/ENGINEER/OWNER>.

15. ALL WATERLINE CROSSINGS SHALL MAINTAIN A VERTICAL SEPARATION OF 18" MINIMUM. SANITARY SEWER SHALL BE LOCATED 18" BELOW WATERMAIN AT ALL CROSSINGS. WATERMAIN SHALL BE LOCATED A MINIMUM OF 10' HORIZONTALLY FROM ANY SANITARY SEWER OR STORM SEWER. ALL MEASUREMENTS SHALL BE TAKEN FROM OUTSIDE OF SEWER PIPE TO THE OUTSIDE OF WATERMAIN PIPE. ONE FULL LENGTH OF WATERMAIN PIPE SHALL BE LOCATED AT ALL CROSSINGS TO ENABLE BOTH JOINTS TO BE LOCATED AS FAR FROM SEWER AS POSSIBLE.

16. ALL WATER SERVICE PIPE SIZES 3" THRU 12" SHALL BE <DUCTILE IRON PIPE CLASS <51, 52, 53>, PVC <C-900> OR PVC <C909>> PIPE PER LOCAL JURISDICTION, FROM WATERMAIN THRU METER SETTING(S) INCLUDING THE METER BYPASS.

17. ALL WATER SERVICE PIPE, <2" AND SMALLER>, SHALL BE K SOFT COPPER FROM WATERMAIN THRU CURB STOP; K SOFT COPPER OR <UTILITY AGENCY / DISTRICT / MUNICIPALITY / COMPANY> APPROVED POLYTUBING FROM <CURB STOP THRU METER SETTING IN BUILDING>.

18. WATERLINE IS TO BE BEDDED WITH CLEAN GRANULAR MATERIAL-AGGREGATES <NOT TO BE LARGER THAN 3/4" AND NOT SMALLER THAN NO. 8 SIEVE, FREE OF SILT AND FINES, AASHTO M43 SIZE #67, 7 OR 8. BEDDING TO BE MINIMUM OF 6" BELOW & 12" / PER STATE OR CITY DOT NO.> ABOVE THE PIPE.

PERFORMANCE CHARTER SCHOOL DEVELOPMENT
RALEIGH OAK ACADEMY
3400 SUNGATE BLVD
RALEIGH, NORTH CAROLINA

GENERAL NOTES

DATE: JUNE 2023
DWG SCALE: AS SHOWN
PROJECT NO: 327-745
APPROVED BY: GAG

DATE: JUNE 2023
DRAWN BY: MRS
CHECKED BY: MSJ
327-745
GAG

REFERENCE

1. SURVEY PERFORMED BY FREELAND & ASSOCIATES, INC. ON 12-13-2021 AND PROVIDED BY CLIENT.

CEC

Civil & Environmental Consultants, Inc.
3701 Arco Corporate Drive · Suite 400 · Charlotte, NC 28273
Ph: 980.237.0373 · Fax: 980.237.0372
www.cecinc.com

RAWING NO.: C001

PER NFIP FIRM COMMUNITY
PANEL NO. 3720172300J
EFFECTIVE DATE: 5-2-2006

0.2% ANNUAL CHANCE FLOOD HAZARD,
AREAS OF 1% ANNUAL CHANCE FLOOD
WITH AVERAGE DEPTH LESS THAN ONE
FOOT OR WITH DRAINAGE AREAS OF LESS
THAN ONE SQUARE MILE.

TBM
TOP OF FIRE
HYDRANT
ELEV.: 204.11'











N/F
PARKS HOLDINGS, LLC
PIN # 1723-47-7999
D.B. 13817-1166
B.M. 1986-981

TBM
TOP OF FIRE
HYDRANT
ELEV: 200.30

EXISTING PAVEMENT TO BE
REMOVED AND REPLACED FOR
PROPOSED UTILITY CONNECTIONS

EXISTING CURB TO
BE REMOVED (TYP.)

N/F
CITY OF RALEIGH
PIN # 1723-58-3055
D.B. 11829-1162
B.M. 2006-230

 EXISTING ADJACENT PROPERTY LINE
 EXISTING PROPERTY PARCEL BOUNDARY
 EXISTING WETLAND
 EXISTING INDEX CONTOUR
 EXISTING INTERMEDIATE CONTOUR
 EXISTING SANITARY SEWER
 EXISTING WATER MAIN
 EXISTING UNDERGROUND POWER LINE
 EXISTING FLOOD PRONE SOILS
 PROPOSED LIMIT OF DISTURBANCE

1. SURVEY PERFORMED BY FREELAND & ASSOCIATES, INC. ON 12-13-2021 AND PROVIDED BY CLIENT.

N/F
WATERBROOK
APARTMENT, LLC
PIN # 1723-47-4709
D.B. 11751-2082
B.M. 2007-2555

N/F
SUNNYBROOK POINTE
PARTNERS, LP
PIN # 1723-47-3259
D.B. 17048-1827
B.M. 2018-362

N/F
STATE OF NORTH
CAROLINA
PIN # 1723-56-319
D.B. 8791-237
B.M. 2007-00485

EXISTING CONDITIONS & DEMOLITION PLAN

DRAWING NO.

C100

<h1>EXISTING CONDITIONS & DEMOLITION PLAN</h1>		MRS
DATE:	JUNE 2023	DRAWN BY:
DWG SCALE:	AS SHOWN	CHECKED BY:
PROJECT NO:	327-745	
APPROVED BY:		GAG

**PERFORMANCE CHARTER SCHOOL DEVELOPMENT
RALEIGH OAK ACADEMY
3400 SUNGATE BLVD
RALEIGH, NORTH CAROLINA**

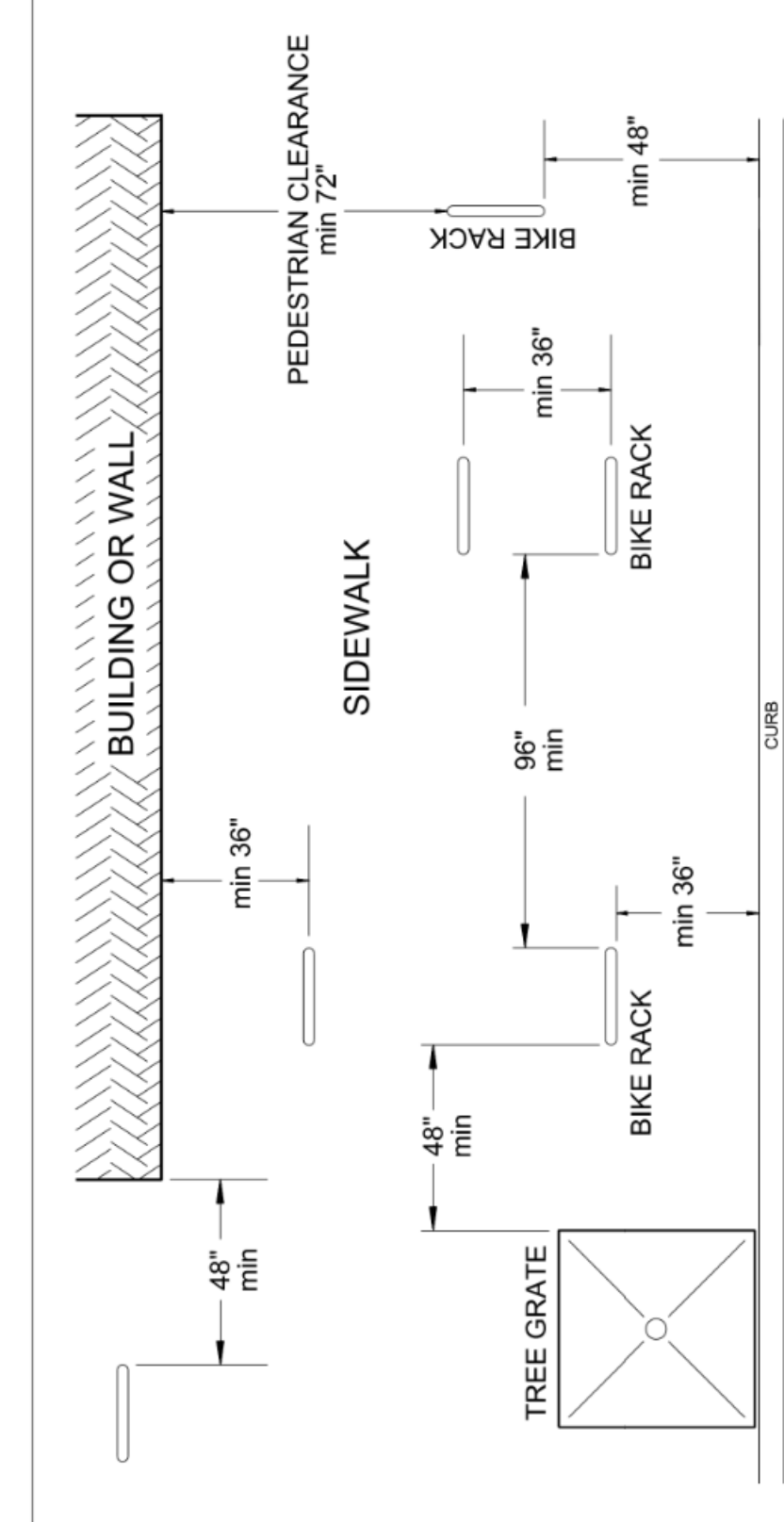
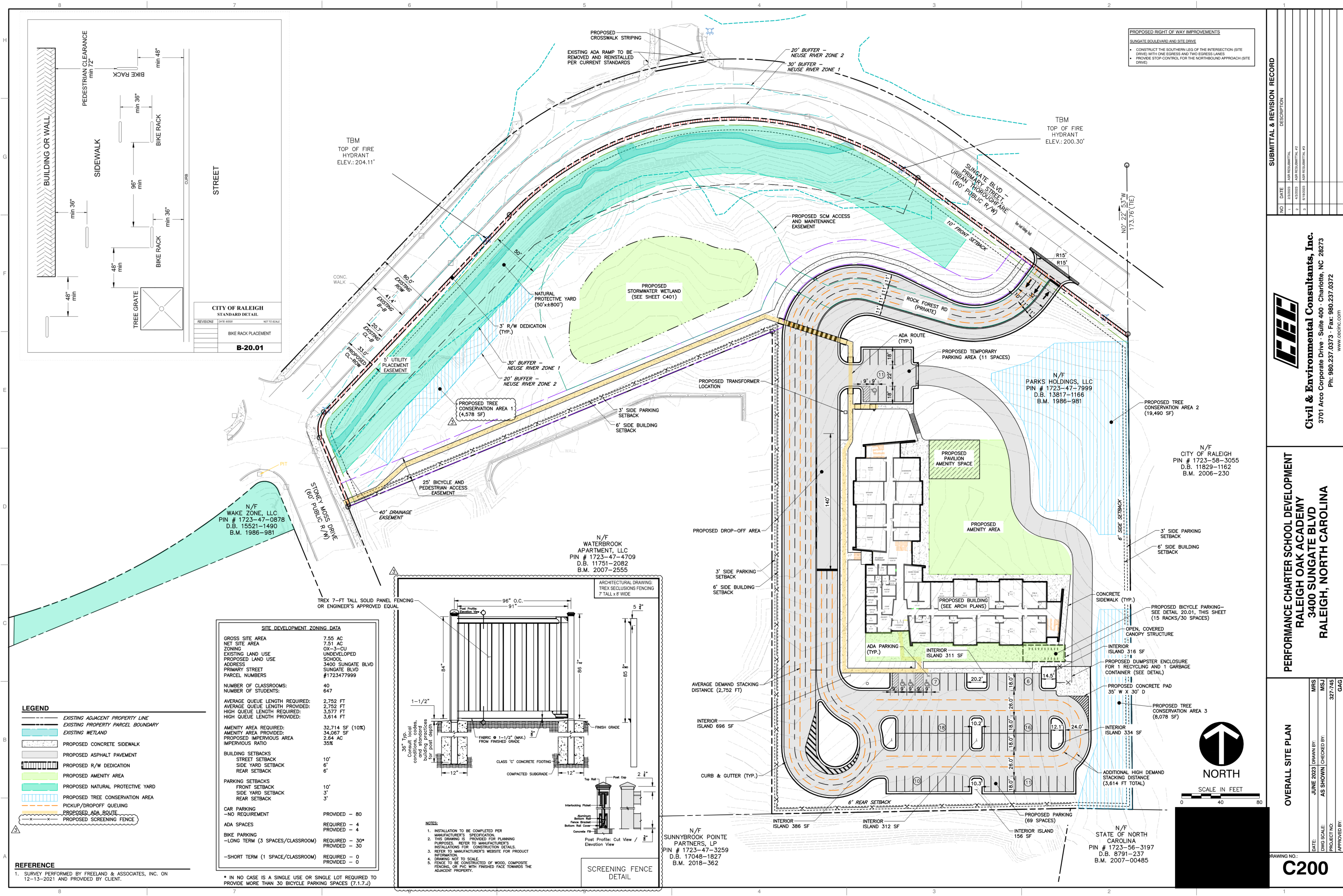


Civil & Environmental Consultants, Inc.
 3701 Arco Corporate Drive • Suite 400 • Charlotte, NC 28273
 Ph: 980.237.0373 • Fax: 980.237.0372
www.ceeinc.com

SUBMITTAL & REVISION RECORD

NO	DATE	DESCRIPTION
----	------	-------------

NO	DATE
----	------



CITY OF RALEIGH
STANDARD DETAIL
BIKE RACK PLACEMENT
B-20.01

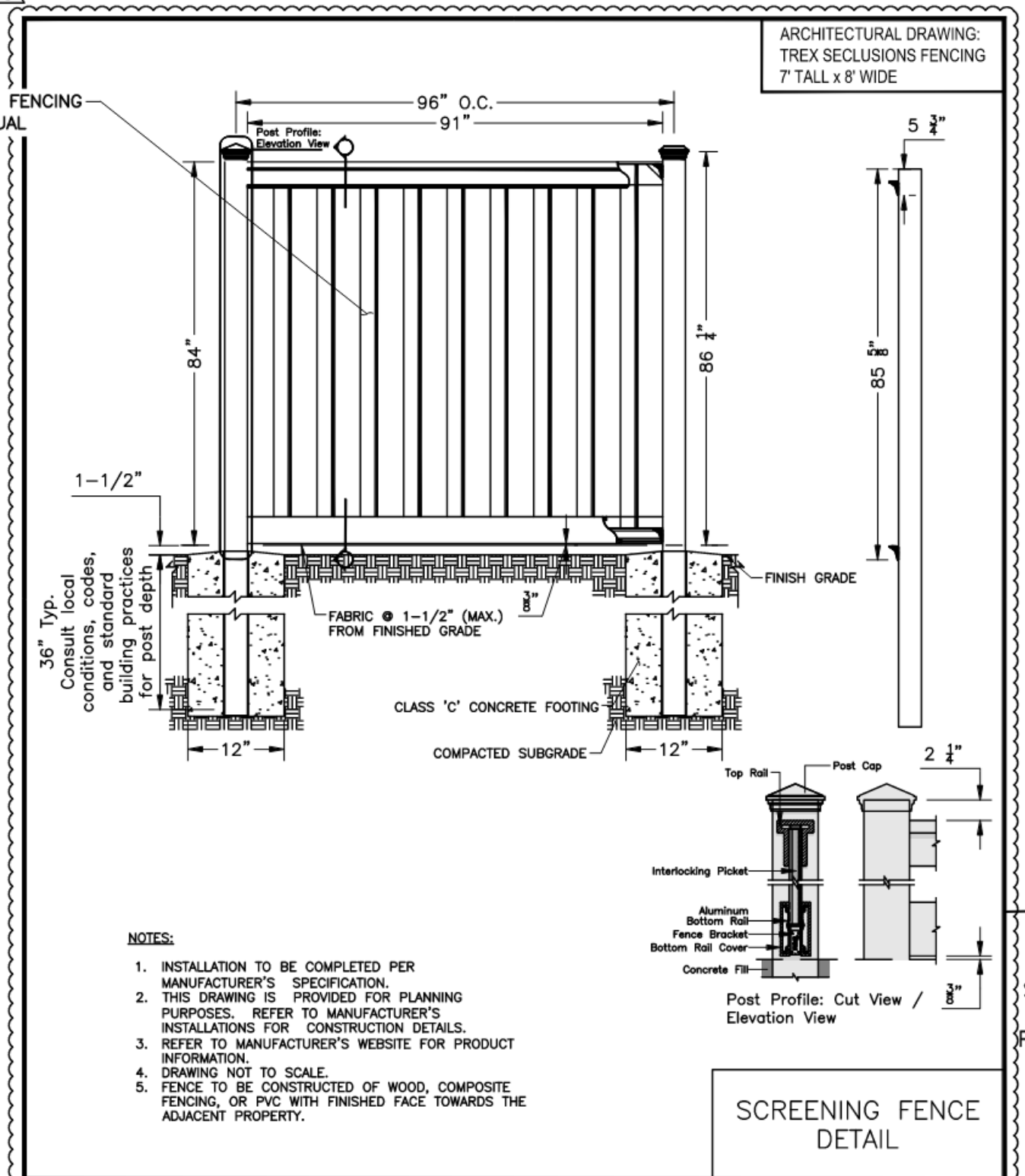
- LEGEND**
- EXISTING ADJACENT PROPERTY LINE
 - EXISTING PROPERTY PARCEL BOUNDARY
 - EXISTING WETLAND
 - PROPOSED CONCRETE SIDEWALK
 - PROPOSED ASPHALT PAVEMENT
 - PROPOSED R/W DEDICATION
 - PROPOSED AMENITY AREA
 - PROPOSED NATURAL PROTECTIVE YARD
 - PROPOSED TREE CONSERVATION AREA
 - PICKUP/DROPOFF QUEUING
 - PROPOSED ADA ROUTE
 - PROPOSED SCREENING FENCE

REFERENCE

1. SURVEY PERFORMED BY FREELAND & ASSOCIATES, INC. ON 12-13-2021 AND PROVIDED BY CLIENT.

SITE DEVELOPMENT ZONING DATA	
GROSS SITE AREA	7.55 AC
NET SITE AREA	7.51 AC
ZONING	OX-3-CU UNDEVELOPED
EXISTING LAND USE	SCHOOL
PROPOSED LAND USE	3400 SUNGATE BLVD
ADDRESS	SUNGATE BLVD
PRIMARY STREET	#1723477999
PARCEL NUMBERS	
NUMBER OF CLASSROOMS:	40
NUMBER OF STUDENTS:	647
AVERAGE QUEUE LENGTH REQUIRED:	2,752 FT
AVERAGE QUEUE LENGTH PROVIDED:	2,752 FT
HIGH QUEUE LENGTH REQUIRED:	3,577 FT
HIGH QUEUE LENGTH PROVIDED:	3,614 FT
AMENITY AREA REQUIRED:	32,714 SF (10%)
AMENITY AREA PROVIDED:	34,067 SF
PROPOSED IMPERVIOUS AREA	2.64 AC
IMPERVIOUS RATIO	35%
BUILDING SETBACKS	
STREET SETBACK	10'
SIDE YARD SETBACK	6'
REAR SETBACK	6'
PARKING SETBACKS	
FRONT SETBACK	10'
SIDE YARD SETBACK	3'
REAR SETBACK	3'
CAR PARKING	PROVIDED - 80
-NO REQUIREMENT	REQUIRED - 4
ADA SPACES	PROVIDED - 4
BIKE PARKING	REQUIRED - 30*
-LONG TERM (3 SPACES/CLASSROOM)	PROVIDED - 30
-SHORT TERM (1 SPACE/CLASSROOM)	REQUIRED - 0
	PROVIDED - 0

* IN NO CASE IS A SINGLE USE OR SINGLE LOT REQUIRED TO PROVIDE MORE THAN 30 BICYCLE PARKING SPACES (7.1.7.J)



- NOTES:**
1. INSTALLATION TO BE COMPLETED PER MANUFACTURER'S SPECIFICATION.
 2. THIS DRAWING IS PROVIDED FOR PLANNING PURPOSES. REFER TO MANUFACTURER'S INSTALLATIONS FOR CONSTRUCTION DETAILS.
 3. REFER TO MANUFACTURER'S WEBSITE FOR PRODUCT INFORMATION.
 4. DRAWING NOT TO SCALE.
 5. FENCE TO BE CONSTRUCTED OF WOOD, COMPOSITE FENCING, OR PVC WITH FINISHED FACE TOWARDS THE ADJACENT PROPERTY.

- PROPOSED RIGHT OF WAY IMPROVEMENTS**
- SUNGATE BOULEVARD AND SITE DRIVE
 - CONSTRUCT THE SOUTHERN LEG OF THE INTERSECTION (SITE DRIVE) WITH ONE EGRESS AND TWO EGRESS LANES
 - PROVIDE STOP-CONTROL FOR THE NORTHBOUND APPROACH (SITE DRIVE)

SUBMITTAL & REVISION RECORD	
NO	DATE
1	3/30/2023
2	4/30/2023
3	6/19/2023

Civil & Environmental Consultants, Inc.
3701 Arco Corporate Drive - Suite 400 - Charlotte, NC 28273
Ph: 980.237.0373 - Fax: 980.237.0372
www.cedinc.com

PERFORMANCE CHARTER SCHOOL DEVELOPMENT
RALEIGH OAK ACADEMY
3400 SUNGATE BLVD
RALEIGH, NORTH CAROLINA

OVERALL SITE PLAN	
DATE:	JUNE 2023
DWG SCALE:	AS SHOWN
PROJECT NO:	327-745
APPROVED BY:	
MRS	
MSJ	
GAG	
DRAWING NO:	C200



SITE INFORMATION

LIMIT OF DISTURBANCE	5.6 AC
IMPERVIOUS AREA TO REMAIN	0 AC
PROPOSED IMPERVIOUS AREA	2.60 AC
FUTURE IMPERVIOUS AREA	0.25 AC
TOTAL IMPERVIOUS AREA	2.85 AC

SUBMITTAL & REVISION RECORD

NO	DATE	DESCRIPTION
1	2/3/2023	ASR RESUBMITTAL #1
2	4/3/2023	ASR RESUBMITTAL #2



Civil & Environmental Consultants, Inc.
3701 Arco Corporate Drive · Suite 400 · Charlotte, NC 28273
Ph: 980.237.0373 · Fax: 980.237.0372
www.cecinc.com

PERFORMANCE CHARTER SCHOOL DEVELOPMENT RALEIGH OAK ACADEMY 3400 SUNGATE BLVD RALEIGH, NORTH CAROLINA

OVERALL GRADING PLAN

DATE:	JUNE 2023	DRAWN BY:	MRS.
DWG SCALE:	AS SHOWN	CHECKED BY:	MSJ
PROJECT NO:	327-745	APPROVED BY:	GAG

DRAWING NO.:

C300

LEGEND

—	EXISTING INDEX CONTOUR
—	EXISTING INTERMEDIATE CONTOUR
—	EXISTING SANITARY SEWER
—	EXISTING WATER MAIN
—	EXISTING UNDERGROUND POWER LINE
—	EXISTING FLOOD PRONE SOILS
—	PROPOSED SANITARY SEWER
—	PROPOSED WATER MAIN
—	PROPOSED FIRE LINE
—	PROPOSED STORM DRAIN
—	PROPOSED INDEX CONTOUR
—	PROPOSED INTERMEDIATE CONTOUR

REFERENCE

1. SURVEY PERFORMED BY FREELAND & ASSOCIATES, INC. ON 12-13-2021 AND PROVIDED BY CLIENT.



0.2% ANNUAL CHANCE FLOOD HAZARD,
AREAS OF 1% ANNUAL CHANCE FLOOD
WITH AVERAGE DEPTH LESS THAN ONE
FOOT OR WITH DRAINAGE AREAS OF LESS
THAN ONE SQUARE MILE.

LEGEND

- EXISTING ADJACENT PROPERTY LINE
- EXISTING PROPERTY PARCEL BOUNDARY
- EXISTING WETLAND
- PROPOSED CONCRETE SIDEWALK
- PROPOSED ASPHALT PAVEMENT
- PROPOSED R/W DEDICATION
- PROPOSED AMENITY AREA
- PROPOSED NATURAL PROTECTIVE YARD
- PROPOSED TREE CONSERVATION AREA
- PICKUP/DROPOFF QUEUING
- PROPOSED ADA ROUTE
- PROPOSED UTILITY EASEMENT
- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- EXISTING SANITARY SEWER
- EXISTING WATER MAIN
- EXISTING UNDERGROUND POWER LINE
- EXISTING FLOOD PRONE SOILS
- PROPOSED SANITARY SEWER
- PROPOSED WATER MAIN
- PROPOSED FIRE LINE
- PROPOSED STORM DRAIN
- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR

REFERENCE

1. SURVEY PERFORMED BY FREELAND & ASSOCIATES, INC. ON
12-13-2021 AND PROVIDED BY CLIENT.

THIS PROPERTY IS LOCATED IN FLOOD
ZONE "X" AND 500 YEAR
FLOOD PLAIN AREA

PER NFIP FIRM COMMUNITY
PANEL NO. 3720172300J
EFFECTIVE DATE: 5-2-2006.

SCALE IN FEET
0 40 80

STORMWATER MANAGEMENT PLAN

PERFORMANCE CHARTER SCHOOL DEVELOPMENT
RALEIGH OAK ACADEMY
3400 SUNGATE BLVD
RALEIGH, NORTH CAROLINA

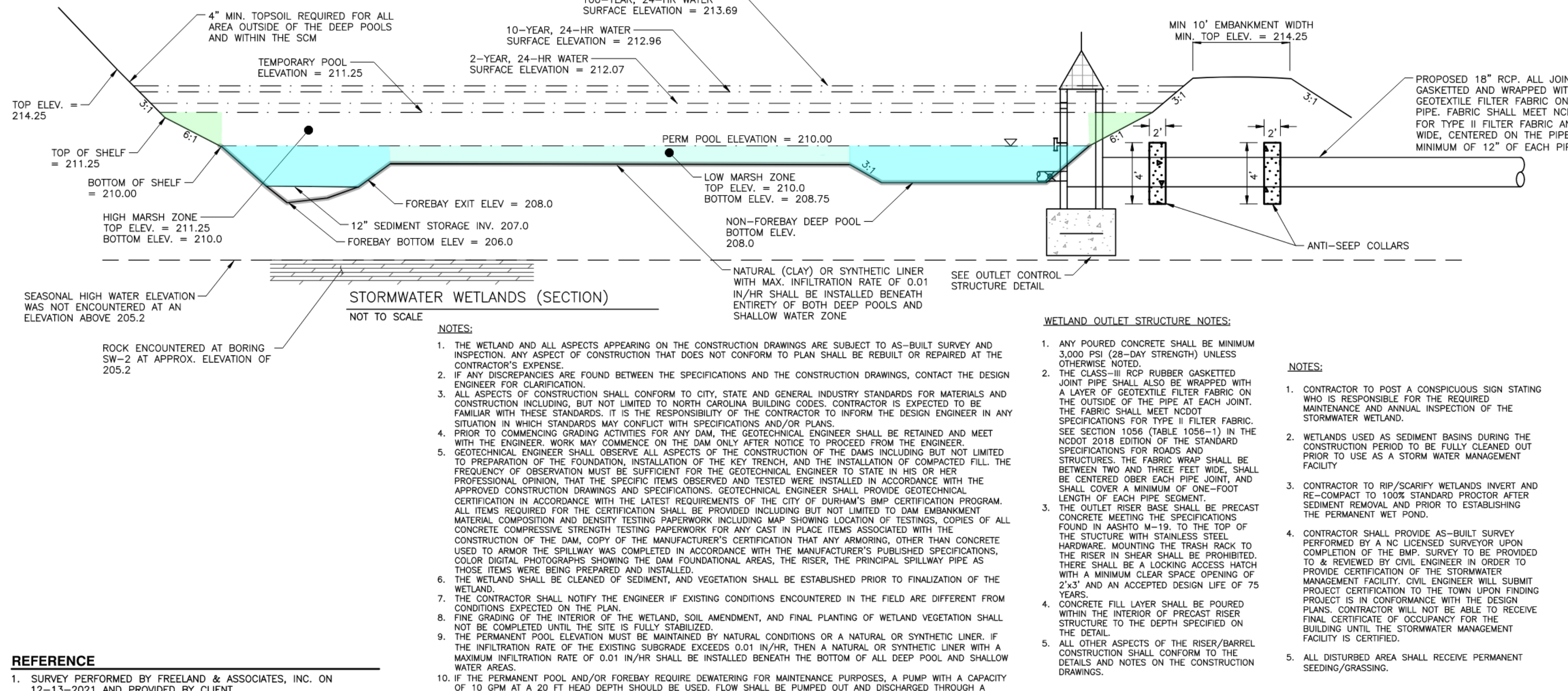
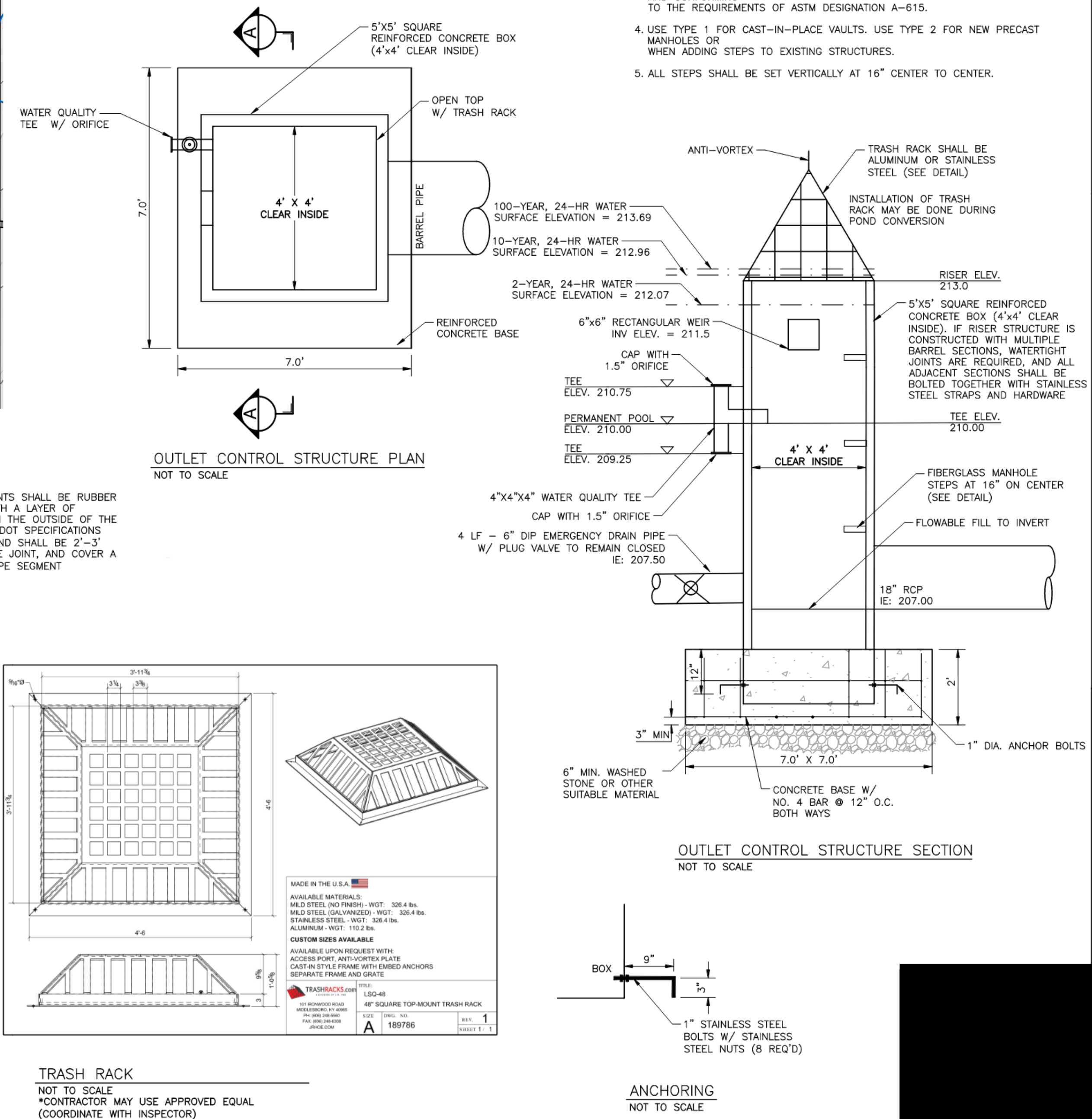
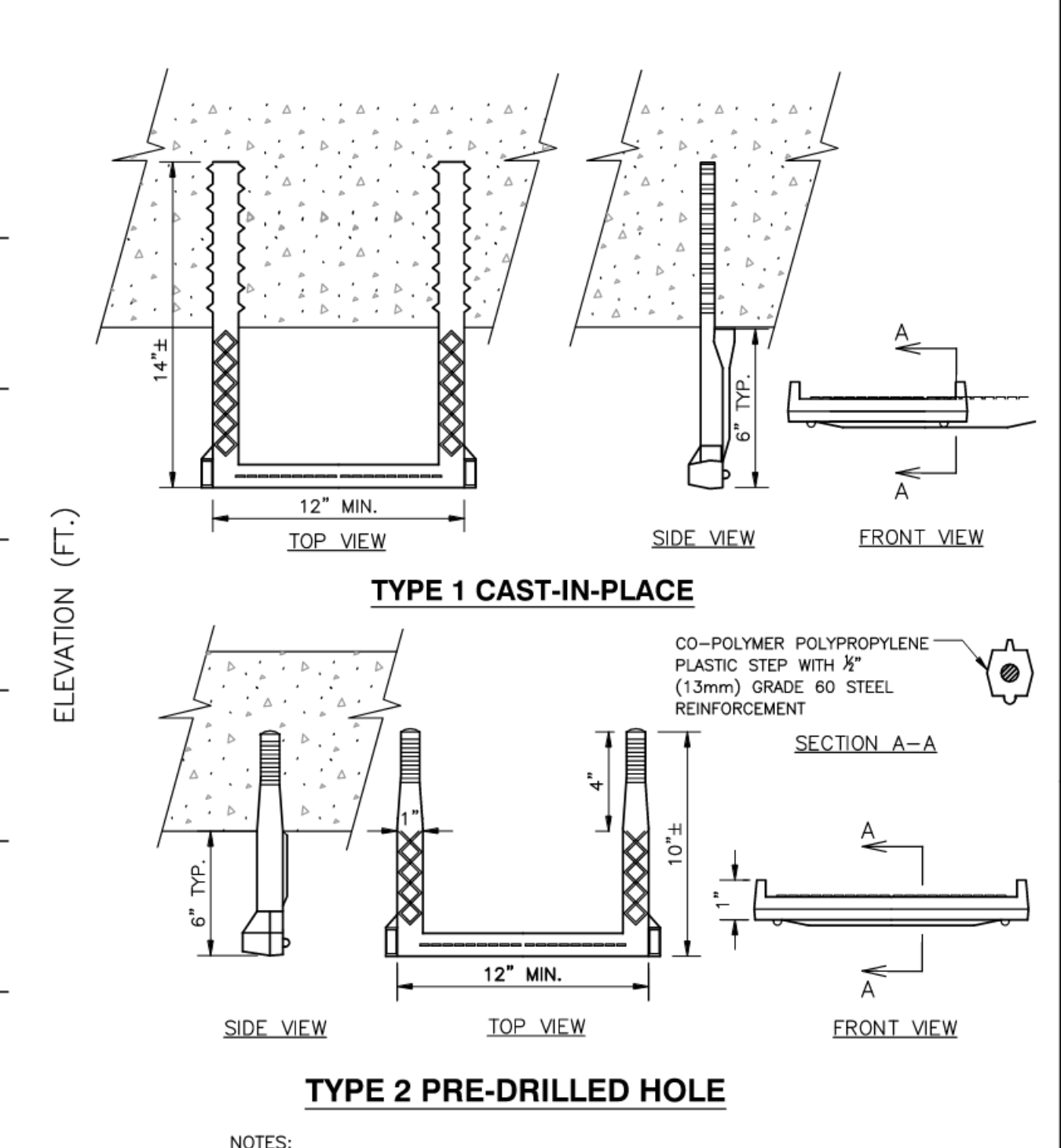
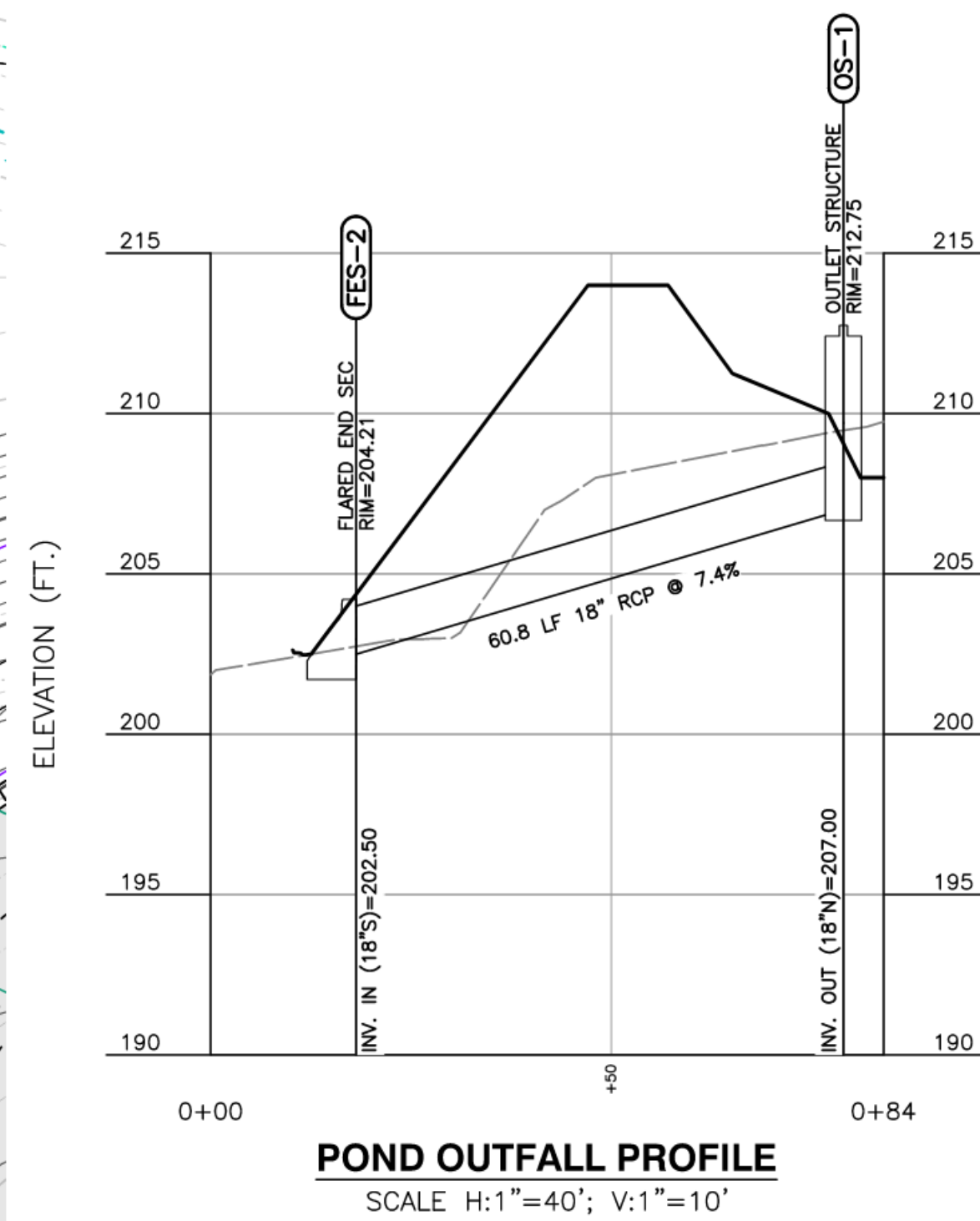
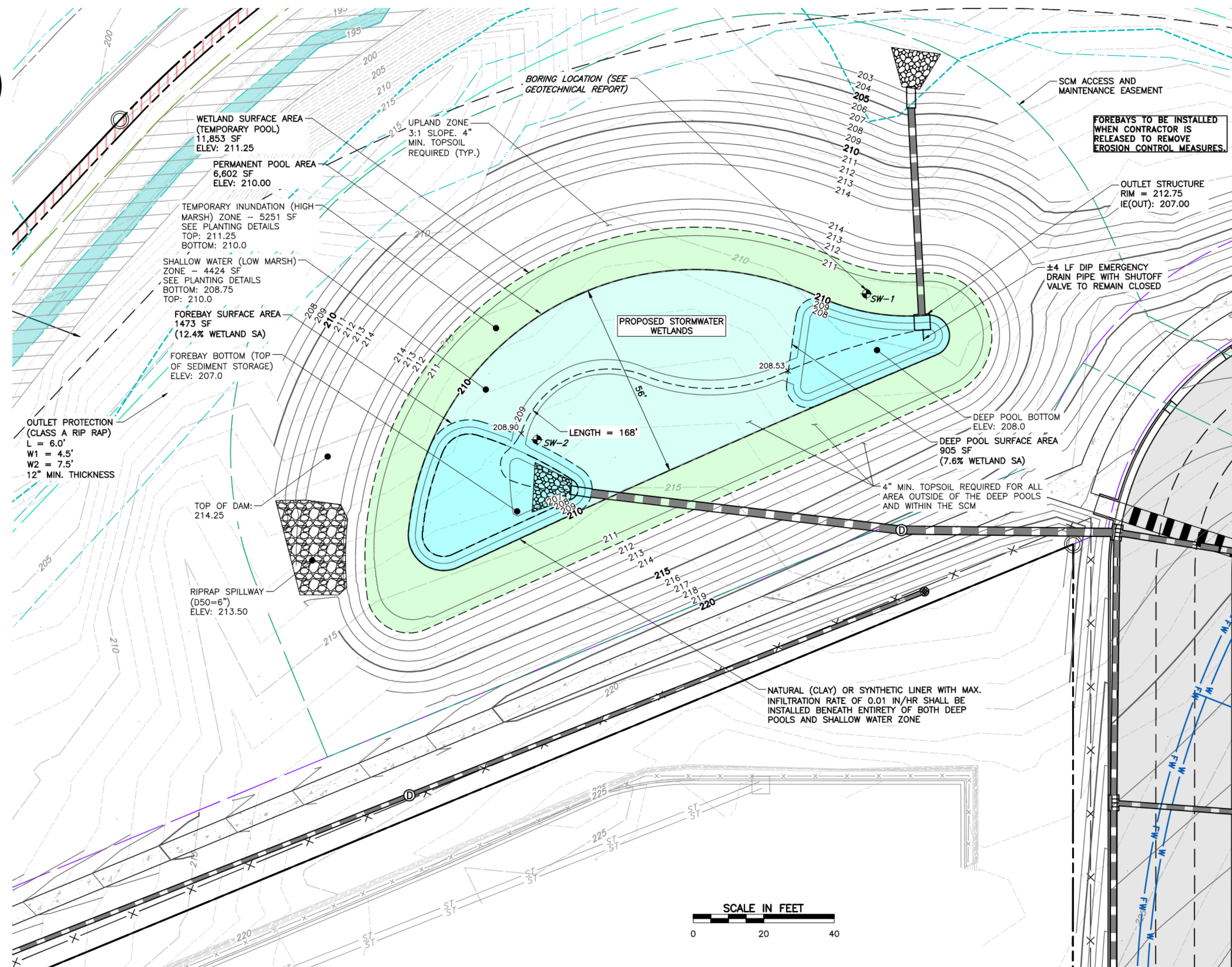
C&E
Civil & Environmental Consultants, Inc.
3701 Arco Corporate Drive · Suite 400 · Charlotte, NC 28273
Ph: 980.237.0373 · Fax: 980.237.0372
www.cceinc.com

DRAWING NO.:
C400

DATE:	JUNE 2023	DRAWN BY:	MRS
DWG SCALE:	AS SHOWN	CHECKED BY:	MSJ
PROJECT NO.:		APPROVED BY:	327-745
			GAG

SUBMITTAL & REVISION RECORD

NO	DATE	DESCRIPTION
1	2/3/2023	ASR RESUBMITTAL #1
2	4/3/2023	ASR RESUBMITTAL #2



REFERENCE
1. SURVEY PERFORMED BY FREELAND & ASSOCIATES, INC. ON 12-13-2021 AND PROVIDED BY CLIENT.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

99

100

NO

DATE

DESCRIPTION

1

2/23/2023

AS-BUILT SUBMITTAL

2

4/3/2023

AS-BUILT SUBMITTAL #2

Civil & Environmental Consultants, Inc.

3701 Arco Corporate Drive · Suite 400 · Charlotte, NC 28273

Ph: 980.237.0373 · Fax: 980.237.0372

www.cecinc.com

PERFORMANCE CHARTER SCHOOL DEVELOPMENT

RALEIGH OAK ACADEMY

3400 SUNGATE BLVD

RALEIGH, NORTH CAROLINA

BMP PLAN

JUNE 2023

DRAWN BY: MRS

AS SHOWN

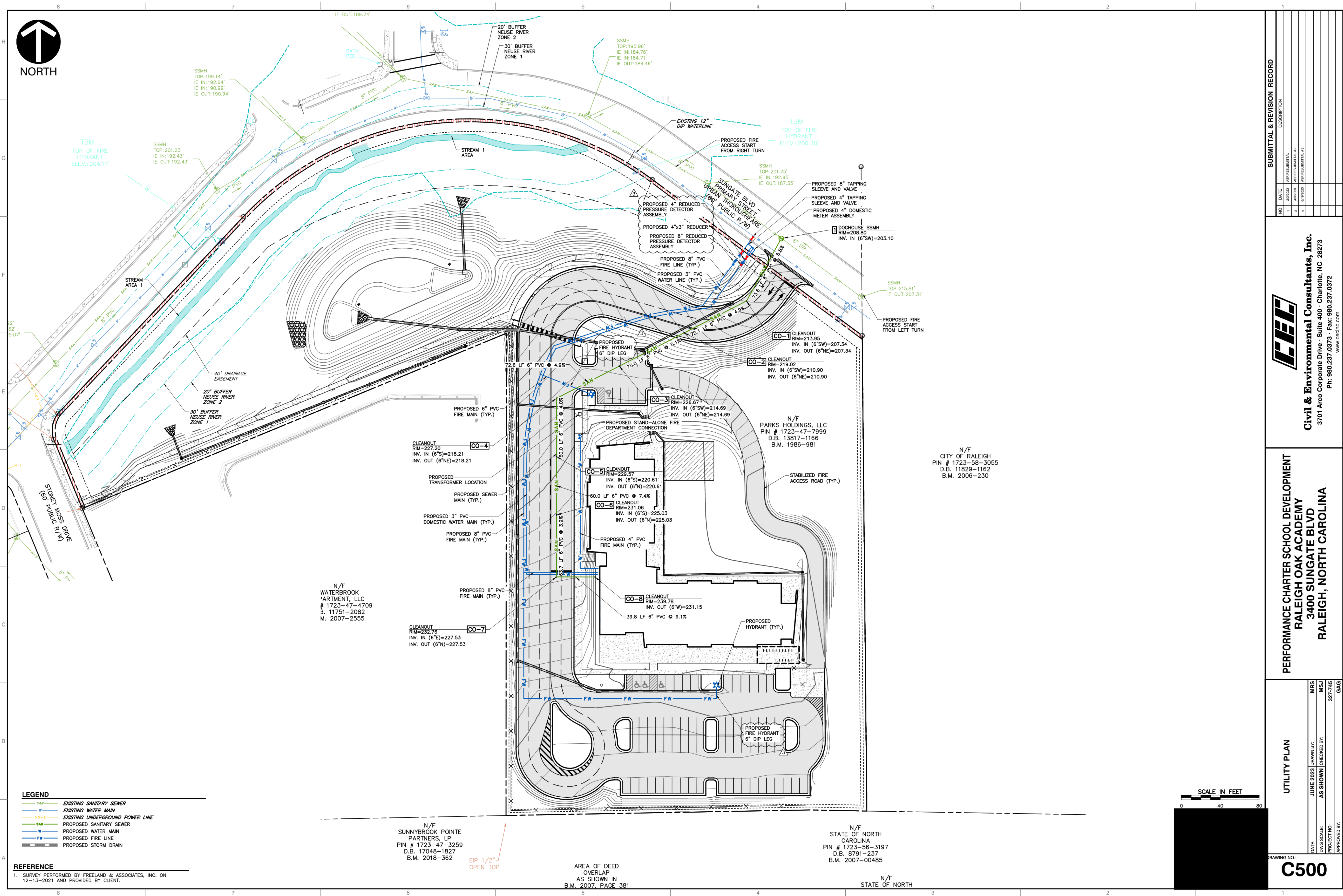
CHECKED BY: MSJ

PROJECT NO: 327-745

APPROVED BY: GAG

RAWING NO.:

C401



LEGEND	
	EXISTING SANITARY SEWER
	EXISTING WATER MAIN
	EXISTING UNDERGROUND POWER LINE
	PROPOSED SANITARY SEWER
	PROPOSED WATER MAIN
	PROPOSED FIRE LINE
	PROPOSED STORM DRAIN

REFERENCE
1. SURVEY PERFORMED BY FREELAND & ASSOCIATES, INC. ON 12-13-2021 AND PROVIDED BY CLIENT.

SUBMITTAL & REVISION RECORD

NO	DATE	DESCRIPTION
1	2/3/2023	ASR RESUBMITTAL #1
2	4/3/2023	ASR RESUBMITTAL #2
3	6/19/2023	ASR RESUBMITTAL #3



Civil & Environmental Consultants, Inc.
3701 Arco Corporate Drive · Suite 400 · Charlotte, NC 28273
Ph: 980.237.0373 · Fax: 980.237.0372
www.ceeinc.com

PERFORMANCE CHARTER SCHOOL DEVELOPMENT
RALEIGH OAK ACADEMY
3400 SUNGATE BLVD
RALEIGH, NORTH CAROLINA

UTILITY PLAN	
DATE: JUNE 2023	DRAWN BY: MRS
DWG SCALE: AS SHOWN	CHECKED BY: MSJ
PROJECT NO: 327-745	APPROVED BY: GAG

DRAWING NO.: **C500**



TBM
TOP OF FIRE
HYDRANT
ELEV.: 204.11'

SSMH
TOP: 201.23'
IE IN: 192.43'
IE OUT: 192.43'

SSMH
TOP: 199.14'
IE IN: 192.64'
IE IN: 190.99'
IE OUT: 190.94'

IE OUT: 189.24'

20' BUFFER
NEUSE RIVER
ZONE 2

30' BUFFER
NEUSE RIVER
ZONE 1

SSMH
TOP: 195.96'
IE IN: 184.76'
IE IN: 184.71'
IE OUT: 184.46'

TBM
TOP OF FIRE
HYDRANT
ELEV.: 200.30'

SSMH
TOP: 201.75'
IE IN: 192.95'
IE OUT: 187.35'

SSMH
TOP: 215.81'
IE OUT: 207.31'

PROPOSED FIRE
ACCESS START
FROM LEFT TURN

PROPOSED 6" PVC
FIRE MAIN (TYP.)

PROPOSED
TRANSFORMER LOCATION

PROPOSED SEWER
MAIN (TYP.)

PROPOSED 3" PVC
DOMESTIC WATER MAIN (TYP.)

PROPOSED 8" PVC
FIRE MAIN (TYP.)

PROPOSED 8" PVC
FIRE MAIN (TYP.)

PROPOSED 4" PVC
FIRE MAIN (TYP.)

STABILIZED FIRE
ACCESS ROAD (TYP.)

PROPOSED
HYDRANT (TYP.)

PROPOSED FIRE HYDRANT
6" DIP LEG

LEGEND

- SAN — EXISTING SANITARY SEWER
- W — EXISTING WATER MAIN
- UG-E — EXISTING UNDERGROUND POWER LINE
- SAN — PROPOSED SANITARY SEWER
- W — PROPOSED WATER MAIN
- FW — PROPOSED FIRE LINE
- — PROPOSED STORM DRAIN

REFERENCE

1. SURVEY PERFORMED BY FREELAND & ASSOCIATES, INC. ON
12-13-2021 AND PROVIDED BY CLIENT.

EIP 1/2" OPEN TOP

SCALE IN FEET

0 40 80

FIRE ACCESS PLAN

DATE: JUNE 2023
DWG SCALE: AS SHOWN
DRAWN BY: MRS
CHECKED BY: MSJ
PROJECT NO: 327-745
APPROVED BY: GAG

DRAWING NO.:
C501

**PERFORMANCE CHARTER SCHOOL DEVELOPMENT
RALEIGH OAK ACADEMY
3400 SUNGATE BLVD
RALEIGH, NORTH CAROLINA**



Civil & Environmental Consultants, Inc.
3701 Arco Corporate Drive - Suite 400 - Charlotte, NC 28273
Ph: 980.237.0373 - Fax: 980.237.0372
www.cecinc.com

SUBMITTAL & REVISION RECORD

NO	DATE	DESCRIPTION
1	2/3/2023	ASR RESUBMITTAL #1
2	4/3/2023	ASR RESUBMITTAL #2
3	6/19/2023	ASR RESUBMITTAL #3

SEE SHEETS TCA-2
AND TCA-3 FOR
TREE INVENTORY

TREE CONSERVATION AREA CALCULATIONS

NET SITE AREA:	327,225 SF
TREE CONSERVATION AREA (TCA) REQUIRED:	32,794 SF (10%)
TOTAL TCA PROVIDED:	32,146 SF / 0.74 ACRES (10.0% OF SITE)
PRIMARY TCA - NEUSE BUFFER ZONE 2:	4,578 SF, 0.11 ACRES (1.4%)
SECONDARY TCA:	28,216 SF, 0.63 ACRES (8.6%)
CONSERVATION AREA WITH NO TREES:	0 SF

TREE CONSERVATION AREA #1

Tree #	Species	DBH (in.)	Basal Area
4,578 sf			
95	Liriodendron tulipifera	11	0.6599 sf
97	Pinus taeda	17	1.5762 sf
394	Pinus taeda	13	0.9217 sf
Total Basal Area:			3.1579 sf
Basal Area per Acre:			30.0 sf/acre

Note: only trees with an intact CRZ are listed above.

TREE CONSERVATION AREA #2

Tree #	Species	DBH (in.)	Basal Area
3,809 sf			
Plot A			
185	Quercus falcata	13	0.9217 sf
186	Quercus alba	14	1.0690 sf
187	Quercus alba	10	0.5454 sf
189	Pinus virginiana	10	0.5454 sf
190	Pinus virginiana	15	1.2272 sf
196	Pinus taeda	14	1.0690 sf
197	Pinus taeda	12	0.7854 sf
Total Basal Area:			6.1630 sf
Basal Area per Acre:			70.5 sf/acre
Plot B			
6,334 sf			
188	Oxydendrum arboreum	12	0.7854 sf
198	Pinus virginiana	12	0.7854 sf
199	Quercus alba	10	0.5454 sf
200	Pinus taeda	19	1.9689 sf
201	Pinus taeda	13	0.9217 sf
202	Pinus taeda	14	1.0690 sf
204	Pinus virginiana	12	0.7854 sf
210	Pinus taeda	19	1.9689 sf
211	Quercus falcata	12	0.7854 sf
212	Pinus taeda	20	2.1816 sf
Total Basal Area:			11.7970 sf
Basal Area per Acre:			81.1 sf/acre
Plot C			
5,044 sf			
203	Pinus taeda	17	1.5762 sf
205	Pinus taeda	16	1.3962 sf
206	Pinus taeda	11	0.6599 sf
207	Pinus taeda	15	1.2272 sf
208	Pinus taeda	16	1.3962 sf
209	Pinus virginiana	10	0.5454 sf
213	Oxydendrum arboreum	10	0.5454 sf
214	Pinus virginiana	15	1.2272 sf
215	Pinus taeda	21	2.4052 sf
554	Pinus virginiana	14	1.0690 sf
555	Pinus virginiana	11	0.6599 sf
559	Pinus taeda	16	1.3962 sf
Total Basal Area:			14.1040 sf
Basal Area per Acre:			121.8 sf/acre
Plot D			
4,951 sf			
216	Pinus taeda	17	1.5762 sf
217	Pinus taeda	18	1.7671 sf
218	Quercus falcata	13	0.9217 sf
219	Pinus virginiana	11	0.6599 sf
220	Pinus taeda	16	1.3962 sf
221	Pinus virginiana	15	1.2272 sf
222	Pinus virginiana	13	0.9217 sf
541	Pinus virginiana	11	0.6599 sf
542	Pinus taeda	16	1.3962 sf
545	Liquidambar styraciflua	15	1.2272 sf
546	Quercus falcata	13	0.9217 sf
556	Pinus virginiana	12	0.7854 sf
557	Pinus virginiana	12	0.7854 sf
558	Pinus taeda	15	1.2272 sf
Total Basal Area:			15.4730 sf
Basal Area per Acre:			136.1 sf/acre

Note: only trees with an intact CRZ are listed above.

TREE CONSERVATION AREA #3

Tree #	Species	DBH (in.)	Basal Area
1,956 sf			
Plot E			
291	Pinus taeda	11	0.6599 sf
292	Quercus stellata	21	2.4052 sf
296	Pinus taeda	14	1.0690 sf
297	Pinus virginiana	10	0.5454 sf
298	Pinus taeda	11	0.6599 sf
Total Basal Area:			5.3395 sf
Basal Area per Acre:			118.9 sf/acre
Plot F			
1,795 sf			
262	Pinus taeda	16	1.3962 sf
263	Quercus alba	10	0.5454 sf
264	Pinus taeda	12	0.7854 sf
Total Basal Area:			2.7270 sf
Basal Area per Acre:			66.2 sf/acre
Plot G			
1,849 sf			
259	Quercus alba	29	4.5868 sf
260	Liriodendron tulipifera	19	1.9689 sf
Total Basal Area:			6.5557 sf
Basal Area per Acre:			154.4 sf/acre
Plot H			
2,478 sf			
257	Quercus falcata	16	1.3962 sf
258	Quercus falcata	17	1.5762 sf
Total Basal Area:			2.9724 sf
Basal Area per Acre:			52.3 sf/acre

Note: only trees with an intact CRZ are listed above.

TREE LEGEND

- 172 TREE TO BE PRESERVED
- 173 TREE TO BE REMOVED

SUBMITTAL & REVISION RECORD

NO	DATE	DESCRIPTION
1	2/3/2023	REVISIONS PER CITY COMMENTS
2	4/3/2023	AIR RESUBMITTAL #2

Civil & Environmental Consultants, Inc.
3701 Arco Corporate Drive - Suite 400 - Charlotte, NC 28273
Ph: 980.237.0373 - Fax: 980.237.0372
www.cedinc.com

**PERFORMANCE CHARTER
SCHOOL DEVELOPMENT
RALEIGH OAK ACADEMY
3400 SUNGATE BLVD
RALEIGH, NORTH CAROLINA**

TREE CONSERVATION AREAS

DATE:	APRIL 2023	DRAWN BY:	LML
DWG SCALE:	AS SHOWN	CHECKED BY:	LML/RM
PROJECT NO:	318-183	APPROVED BY:	LML

DRAWING NO.:

TCA-1

MATERIALS:

1. FABRIC: 4 FOOT HIGH ORANGE PLASTIC FENCING AS SHOWN ON THE PLANS AND SHALL BE WOVEN WITH 2 INCH MESH OPENINGS SUCH THAT IN A VERTICAL DIMENSION OF 23 INCHES ALONG THE DIAGONALS OF THE OPENINGS THERE SHALL BE AT LEAST 7 MESHES
2. THE WIRE: WIRE FOR ATTACHING THE FABRIC TO THE T-POSTS SHALL BE NOT LESS THAN NO. 12 GAUGE GALVANIZED WIRE.
3. USED MATERIALS: PREVIOUSLY-USED MATERIALS, MEETING THE ABOVE REQUIREMENTS AND WHEN APPROVED BY THE OWNER, MAY BE USED.

1. ALL TREES AND SHRUBS SHOWN TO REMAIN WITHIN THE PROXIMITY OF THE CONSTRUCTION SITE SHALL BE PROTECTED PRIOR TO BEGINNING ANY DEVELOPMENT ACTIVITY.

- 8' MAX.**
VARIABLE AS DIRECTED BY THE ENGINEER

3'-0"
2'-0"
8" MIN.
4" MIN.

STEEL POST
METAL WIRE FENCE
WARNING SIGN
FILL SLOPE
GRADE
SILFT FENCE GEOTEXTILE FABRIC

MIN. 10 GA. LINE WIRES
MIN. 12-1/2 GA. INTERMEDIATE WIRES

TREE PROTECTION AREA
DO NOT ENTER

SILFT FENCE FABRIC
INSTALLED TO SECOND WIRE FROM TOP

PLASTIC OR WIRE TIES

FRONT VIEW

SIDE VIEW

MAINTENANCE: CLEAN OUT AT 50% CAPACITY
LIFE OF FENCING: 6-8 MONTHS
DO NOT DISTURB TREE CONSERVATION AREAS
SILFT FENCE SHOULD NOT BE USED ALONE BELOW GRADED SLOPES GREATER THAN 10° IN HEIGHT.

NOTES:

 1. TREE PROTECTION FENCE MUST BE INSTALLED AT A MINIMUM RADIUS OF THE CRITICAL ROOT ZONE (SEE DETAIL TFP-02 FOR EXAMPLES).
 2. THE TREE PROTECTION FENCING MUST REMAIN IN PLACE FOR THE DURATION OF THE PROJECT UNLESS OTHERWISE APPROVED BY URBAN FORESTRY STAFF.
 3. APPROVED IMPACT PROTECTION DEVICES MUST BE REMOVED AFTER CONSTRUCTION WHEN APPLICABLE.
 4. SIGNS SHALL BE PLACED AT 50' MAXIMUM INTERVALS. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER FOR THE REMAINDER.
 5. FOR TREE PROTECTION AREAS LESS THAN 200' IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER PROTECTED AREA.
 6. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC.
 7. ADDITIONAL SIGNS MAY BE REQUIRED BY CITY OF RALEIGH BASED ON ACTUAL FIELD CONDITIONS.
 8. SIGNS ARE TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL WITH LETTERS A MINIMUM OF 2 1/2" HIGH, CLEARLY LEGIBLE AND SPACED AS SHOWN.
 9. FLOW SHALL NOT RUN PARALLEL WITH THE FENCE. END OF SILFT FENCE NEEDS TO BE TURNED UPHILL.
 10. SEE NC STATE GEO PRACTICE STANDARDS & SPECIFICATIONS SEGMENT FENCE SET FOR CONDITIONS WHERE APPLIES; PLANNING CONSIDERATIONS & DESIGN CRITERIA. (HOWEVER, FLOW SHALL NOT RUN PARALLEL WITH THE TOE OF THE FENCE.)

PROVIDE WARNING LANGUAGE IN BOTH ENGLISH AND SPANISH AS SHOWN

40"
36"

TREE PROTECTION AREA
DO NOT ENTER
ZONA DE PROTECCION
PARA ARBOLES - NO ENTRAR

WARNING SIGN DETAIL

CONTACT INFORMATION:
CITY OF RALEIGH PARKS, RECREATION AND CULTURAL RESOURCES DEPARTMENT
TREES@RALEIGHNC.GOV
WWW.RALEIGHNC.GOV

Tag	Species	DBI	Condition	Class	Status
1	Pinus virginiana	17	Good	Tree	Preserve
2	Quercus falcata	17	Good	Tree	Preserve
3	Fagus americana	25	Good	Tree	Preserve
4	Pinus virginiana	19	Good	Tree	
5	Liquidambar styraciflua	11	Good	Tree	
6	Pinus virginiana	19	Good	Tree	
7	Pinus virginiana	21	Good	Tree	
8	Pinus virginiana	15	Poor	Tree	
9	Pinus taeda	10	Good	Tree	
10	Pinus taeda	24	Good	Heritage	
11	Pinus taeda	21	Good	Tree	
12	Pinus taeda	25	Good	Heritage	
13	Pinus echinata	10	Good	Tree	
14	Quercus falcata	12	Good	Tree	
15	Quercus falcata	14	Good	Tree	
16	Liriodendron tulipifera	21	Good	Tree	
17	Carya illinoensis	20	Fair	Tree	
18	Liriodendron tulipifera	11	Good	Tree	
19	Pinus virginiana	19	Good	Tree	
20	Pinus virginiana	18	Good	Tree	
21	Liquidambar styraciflua	12	Good	Tree	
22	Liriodendron tulipifera	11	Good	Tree	
23	Quercus falcata	16	Good	Tree	Preserve
24	Fagus americana	13	Good	Tree	Preserve
25	Pinus taeda	25	Good	Tree	Preserve
26	Pinus taeda	10	Good	Tree	Preserve
27	Pinus taeda	13	Good	Tree	Preserve
28	Liquidambar styraciflua	18	Good	Tree	Preserve
29	Quercus falcata	12	Good	Tree	Preserve
30	Liriodendron tulipifera	17	Fair	Tree	
31	Fagus americana	15	Good	Tree	
32	Pinus taeda	20	Good	Tree	Preserve
33	Fagus americana	15	Good	Tree	Preserve
34	Quercus falcata	22	Good	Tree	
35	Liquidambar styraciflua	11	Good	Tree	
36	Liriodendron tulipifera	17	Good	Tree	
37	Fagus americana	10	Good	Tree	Preserve
38	Liriodendron tulipifera	13	Good	Tree	Preserve
39	Pinus taeda	15	Good	Tree	Preserve
40	Pinus taeda	14	Good	Tree	Preserve
41	Pinus taeda	13	Good	Tree	Preserve
42	Liriodendron tulipifera	11	Good	Tree	Preserve
43	Pinus taeda	16	Good	Tree	Preserve
44	Liriodendron tulipifera	10	Good	Tree	Preserve
45	Pinus taeda	12	Good	Tree	Preserve
46	Pinus taeda	16	Good	Tree	Preserve
47	Pinus taeda	21	Good	Tree	
48	Liquidambar styraciflua	11	Good	Tree	Preserve
49	Pinus taeda	15	Good	Tree	Preserve
50	Liquidambar styraciflua	15	Good	Tree	Preserve
51	Pinus taeda	13	Good	Tree	Preserve
52	Pinus taeda	11	Good	Tree	
53	Pinus taeda	25	Good	Heritage	Preserve
54	Pinus taeda	16	Good	Tree	
55	Liquidambar styraciflua	11	Good	Tree	
56	Pinus taeda	14	Good	Tree	Preserve
57	Pinus taeda	19	Good	Tree	Preserve
58	Liriodendron tulipifera	18	Good	Tree	Preserve
59	Betula nigra	11	Good	Tree	Preserve
60	Pinus taeda	11	Good	Tree	Preserve
61	Liriodendron tulipifera	16	Good	Tree	Preserve
62	Betula nigra	16	Good	Tree	Preserve
63	Liquidambar styraciflua	22	Good	Tree	Preserve
64	Liquidambar styraciflua	10	Good	Tree	Preserve
65	Liquidambar styraciflua	14	Good	Tree	Preserve
66	Liriodendron tulipifera	16	Good	Tree	Preserve
67	Liquidambar styraciflua	17	Good	Tree	Preserve
68	Pinus taeda	12	Good	Tree	Preserve
69	Liriodendron tulipifera	13	Good	Tree	Preserve
70	Pinus taeda	16	Good	Tree	Preserve
71	Pinus taeda	12	Fair	Tree	Preserve
72	Liriodendron tulipifera	17	Good	Tree	Preserve
73	Pinus taeda	10	Good	Tree	Preserve
74	Liquidambar styraciflua	16	Good	Tree	Preserve
75	Liriodendron tulipifera	25	Good	Heritage	
76	Liquidambar styraciflua	17	Good	Tree	Preserve
77	Pinus taeda	12	Good	Tree	Preserve
78	Acer rubrum	13	Good	Tree	Preserve
79	Liriodendron tulipifera	12	Fair	Tree	Preserve
80	Quercus nigra	30	Good	Heritage	Preserve
81	Liriodendron tulipifera	21	Good	Tree	
82	Carya glabra	14	Fair	Tree	
83	Liquidambar styraciflua	12	Good	Tree	Preserve
84	Quercus alba	27	Good	Heritage	
85	Liriodendron tulipifera	13	Good	Tree	
86	Liriodendron tulipifera	18	Good	Tree	
87	Liquidambar styraciflua	12	Good	Tree	
88	Quercus spp.	18	Dead/Diseased	Tree	Preserve
89</					

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

DRAWING NO.:

TCA-2

CEC

Civil & Environmental Consultants, Inc.
3701 Arco Corporate Drive · Suite 400 · Charlotte, NC 28273
Ph: 980.237.0373 · Fax: 980.237.0372
www.cecinc.com

SUBMITTAL & REVISION RECORD

[illegible][illegible][illegible]

MIL
CITY CH
. #2

[illegible]

ts ()

ns
Ch
23

ns 3 · cen

98 or vi

il 1

--	--

AFM-DIC-VR

CWIKART

PHOTO

References

1. *Journal of Management Studies*, 1997, 34, 1, 1-14.

D S

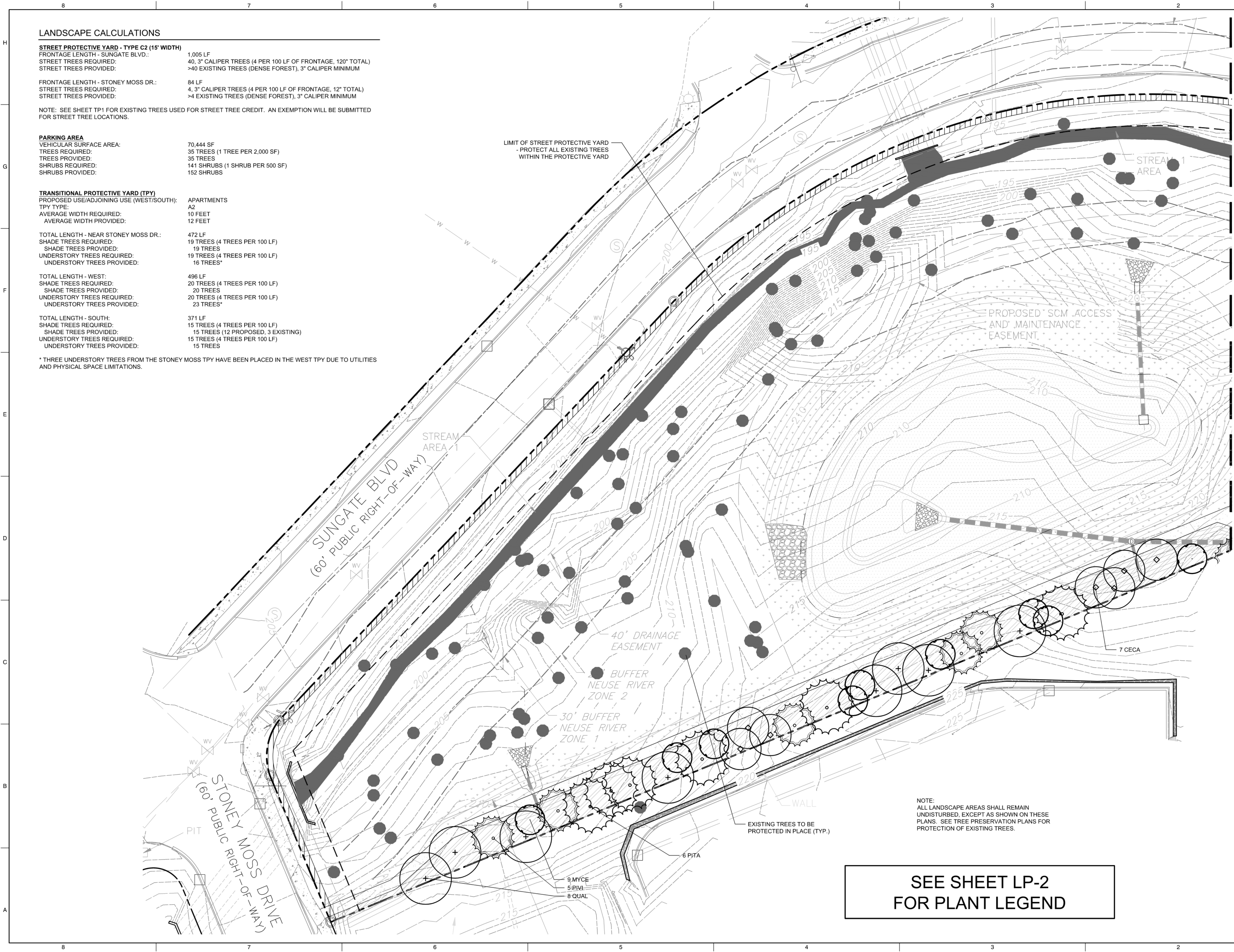
BY
ED |

IL	SHS
----	-----

	T	F	P	I	E
--	---	---	---	---	---

DRAWING NO.:

8		7		6		5		4		3		2		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
H																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
G																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
F																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
E																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
D																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
C																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
B																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
TREE INVENTORY (CON'T.)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
<table><tr><td>300</td><td>Quercus falcata</td><td>14</td><td>Good</td><td>Tree</td><td>Preserve</td><td>400</td><td>Pinus virginiana</td><td>10</td><td>Good</td><td>Tree</td><td>500</td><td>Quercus falcata</td><td>10</td><td>Good</td><td>Tree</td></tr><tr><td>301</td><td>Pinus taeda</td><td>12</td><td>Good</td><td>Tree</td><td></td><td>401</td><td>Pinus taeda</td><td>13</td><td>Good</td><td>Tree</td><td>501</td><td>Quercus alba</td><td>11</td><td>Good</td><td>Tree</td></tr><tr><td>302</td><td>Pinus taeda</td><td>23</td><td>Fair</td><td>Tree</td><td></td><td>402</td><td>Pinus virginiana</td><td>11</td><td>Good</td><td>Tree</td><td>502</td><td>Quercus falcata</td><td>12</td><td>Good</td><td>Tree</td></tr><tr><td>303</td><td>Liquidambar styraciflua</td><td>10</td><td>Good</td><td>Tree</td><td></td><td>403</td><td>Pinus virginiana</td><td>10</td><td>Fair</td><td>Tree</td><td>503</td><td>uercus velutina</td><td>10</td><td>Good</td><td>Tree</td></tr><tr><td>304</td><td>Liquidambar styraciflua</td><td>10</td><td>Good</td><td>Tree</td><td></td><td>404</td><td>Quercus alba</td><td>14</td><td>Fair</td><td>Tree</td><td>504</td><td>Quercus falcata</td><td>13</td><td>Good</td><td>Tree</td></tr><tr><td>305</td><td>Pinus taeda</td><td>20</td><td>Good</td><td>Tree</td><td></td><td>405</td><td>Pinus virginiana</td><td>12</td><td>Good</td><td>Tree</td><td>505</td><td>Quercus alba</td><td>16</td><td>Good</td><td>Tree</td></tr><tr><td>306</td><td>Quercus falcata</td><td>13</td><td>Good</td><td>Tree</td><td></td><td>406</td><td>Quercus alba</td><td>21</td><td>Good</td><td>Tree</td><td>506</td><td>Pinus taeda</td><td>18</td><td>Fair</td><td>Tree</td></tr><tr><td>307</td><td>Quercus alba</td><td>11</td><td>Good</td><td>Tree</td><td></td><td>407</td><td>Quercus alba</td><td>12</td><td>Good</td><td>Tree</td><td>507</td><td>Quercus velutina</td><td>16</td><td>Good</td><td>Tree</td></tr><tr><td>308</td><td>Pinus taeda</td><td>19</td><td>Fair</td><td>Tree</td><td></td><td>408</td><td>Quercus falcata</td><td>11</td><td>Good</td><td>Tree</td><td>508</td><td>Pinus taeda</td><td>16</td><td>Good</td><td>Tree</td></tr><tr><td>309</td><td>Quercus alba</td><td>19</td><td>Good</td><td>Tree</td><td></td><td>409</td><td>Quercus falcata</td><td>11</td><td>Good</td><td>Tree</td><td>509</td><td>Pinus taeda</td><td>17</td><td>Good</td><td>Tree</td></tr><tr><td>310</td><td>Liquidambar styraciflua</td><td>23</td><td>Good</td><td>Tree</td><td></td><td>410</td><td>Quercus falcata</td><td>12</td><td>Good</td><td>Tree</td><td>510</td><td>Quercus alba</td><td>10</td><td>Good</td><td>Tree</td></tr><tr><td>311</td><td>Pinus taeda</td><td>23</td><td>Good</td><td>Tree</td><td></td><td>411</td><td>Pinus taeda</td><td>18</td><td>Good</td><td>Tree</td><td>511</td><td>Pinus taeda</td><td>15</td><td>Good</td><td>Tree</td></tr><tr><td>312</td><td>Liquidambar styraciflua</td><td>10</td><td>Good</td><td>Tree</td><td></td><td>412</td><td>Quercus falcata</td><td>12</td><td>Good</td><td>Tree</td><td>512</td><td>Pinus virginiana</td><td>14</td><td>Good</td><td>Tree</td></tr><tr><td>313</td><td>Liquidambar styraciflua</td><td>11</td><td>Good</td><td>Tree</td><td></td><td>413</td><td>Quercus falcata</td><td>13</td><td>Good</td><td>Tree</td><td>513</td><td>Pinus virginiana</td><td>12</td><td>Fair</td><td>Tree</td></tr><tr><td>314</td><td>Pinus taeda</td><td>21</td><td>Good</td><td>Tree</td><td></td><td>414</td><td>Pinus taeda</td><td>13</td><td>Good</td><td>Tree</td><td>514</td><td>Quercus falcata</td><td>11</td><td>Good</td><td>Tree</td></tr><tr><td>315</td><td>Pinus taeda</td><td>15</td><td>Good</td><td>Tree</td><td></td><td>415</td><td>Quercus falcata</td><td>12</td><td>Good</td><td>Tree</td><td>515</td><td>Pinus virginiana</td><td>0</td><td>Good</td><td>Tree</td></tr><tr><td>316</td><td>Quercus alba</td><td>10</td><td>Good</td><td>Tree</td><td></td><td>416</td><td>Pinus taeda</td><td>15</td><td>Good</td><td>Tree</td><td>516</td><td>Pinus taeda</td><td>12</td><td>Good</td><td>Tree</td></tr><tr><td>317</td><td>Pinus taeda</td><td>21</td><td>Good</td><td>Tree</td><td></td><td>417</td><td>Pinus virginiana</td><td>12</td><td>Good</td><td>Tree</td><td>517</td><td>Pinus taeda</td><td>14</td><td>Fair</td><td>Tree</td></tr><tr><td>318</td><td>Pinus taeda</td><td>19</td><td>Good</td><td>Tree</td><td></td><td>418</td><td>Pinus taeda</td><td>15</td><td>Good</td><td>Tree</td><td>518</td><td>Quercus alba</td><td>11</td><td>Good</td><td>Tree</td></tr><tr><td>319</td><td>Pinus taeda</td><td>13</td><td>Good</td><td>Tree</td><td></td><td>419</td><td>Pinus taeda</td><td>19</td><td>Good</td><td>Tree</td><td>519</td><td>Pinus virginiana</td><td>11</td><td>Good</td><td>Tree</td></tr><tr><td>320</td><td>Pinus taeda</td><td>21</td><td>Fair</td><td>Tree</td><td></td><td>420</td><td>Quercus falcata</td><td>11</td><td>Fair</td><td>Tree</td><td>520</td><td>Quercus alba</td><td>11</td><td>Good</td><td>Tree</td></tr><tr><td>321</td><td>Pinus taeda</td><td>13</td><td>Good</td><td>Tree</td><td>Preserve</td><td>421</td><td>Pinus taeda</td><td>14</td><td>Good</td><td>Tree</td><td>521</td><td>Quercus alba</td><td>11</td><td>Good</td><td>Tree</td></tr><tr><td>322</td><td>Pinus taeda</td><td>23</td><td>Good</td><td>Tree</td><td>Preserve</td><td>422</td><td>Quercus falcata</td><td>12</td><td>Good</td><td>Tree</td><td>522</td><td>Pinus virginiana</td><td>17</td><td>Good</td><td>Tree</td></tr><tr><td>323</td><td>Pinus virginiana</td><td>15</td><td>Good</td><td>Tree</td><td>Preserve</td><td>423</td><td>Pinus taeda</td><td>17</td><td>Good</td><td>Tree</td><td>523</td><td>Pinus virginiana</td><td>11</td><td>Fair</td><td>Tree</td></tr><tr><td>324</td><td>Fagus americana</td><td>10</td><td>Good</td><td>Tree</td><td></td><td>424</td><td>Pinus taeda</td><td>10</td><td>Good</td><td>Tree</td><td>524</td><td>Pinus taeda</td><td>15</td><td>Good</td><td>Tree</td></tr><tr><td>325</td><td>Pinus virginiana</td><td>14</td><td>Good</td><td>Tree</td><td></td><td>425</td><td>Pinus taeda</td><td>16</td><td>Good</td><td>Tree</td><td>525</td><td>Quercus alba</td><td>18</td><td>Good</td><td>Tree</td></tr><tr><td>326</td><td>Pinus taeda</td><td>13</td><td>Good</td><td>Tree</td><td>Preserve</td><td>426</td><td>Pinus taeda</td><td>15</td><td>Good</td><td>Tree</td><td>526</td><td>Pinus virginiana</td><td>15</td><td>Good</td><td>Tree</td></tr><tr><td>327</td><td>Liquidambar styraciflua</td><td>16</td><td>Good</td><td>Tree</td><td>Preserve</td><td>427</td><td>Pinus virginiana</td><td>12</td><td>Good</td><td>Tree</td><td>527</td><td>Pinus taeda</td><td>11</td><td>Good</td><td>Tree</td></tr><tr><td>328</td><td>Acer rubrum</td><td>15</td><td>Good</td><td>Tree</td><td>Preserve</td><td>428</td><td>Quercus falcata</td><td>13</td><td>Good</td><td>Tree</td><td>528</td><td>Pinus taeda</td><td>15</td><td>Good</td><td>Tree</td></tr><tr><td>329</td><td>Liriodendron tulipifera</td><td>11</td><td>Good</td><td>Tree</td><td>Preserve</td><td>429</td><td>Quercus falcata</td><td>13</td><td>Good</td><td>Tree</td><td>529</td><td>Quercus rubra</td><td>12</td><td>Good</td><td>Tree</td></tr><tr><td>330</td><td>Carya glabra</td><td>20</td><td>Good</td><td>Tree</td><td>Preserve</td><td>430</td><td>Pinus taeda</td><td>15</td><td>Good</td><td>Tree</td><td>530</td><td>Quercus falcata</td><td>10</td><td>Good</td><td>Tree</td></tr><tr><td>331</td><td>Fagus americana</td><td>17</td><td>Good</td><td>Tree</td><td>Preserve</td><td>431</td><td>Pinus virginiana</td><td>14</td><td>Good</td><td>Tree</td><td>531</td><td>Pinus taeda</td><td>12</td><td>Good</td><td>Tree</td></tr><tr><td>332</td><td>Liriodendron tulipifera</td><td>11</td><td>Good</td><td>Tree</td><td>Preserve</td><td>432</td><td>Pinus virginiana</td><td>12</td><td>Fair</td><td>Tree</td><td>532</td><td>Quercus falcata</td><td>10</td><td>Good</td><td>Tree</td></tr><tr><td>333</td><td>Liquidambar styraciflua</td><td>10</td><td>Good</td><td>Tree</td><td>Preserve</td><td>433</td><td>Quercus velutina</td><td>23</td><td>Good</td><td>Tree</td><td>533</td><td>Pinus taeda</td><td>11</td><td>Fair</td><td>Tree</td></tr><tr><td>334</td><td>Liriodendron tulipifera</td><td>11</td><td>Good</td><td>Tree</td><td>Preserve</td><td>434</td><td>Pinus virginiana</td><td>13</td><td>Good</td><td>Tree</td><td>534</td><td>Quercus falcata</td><td>13</td><td>Good</td><td>Tree</td></tr><tr><td>335</td><td>Quercus falcata</td><td>11</td><td>Good</td><td>Tree</td><td></td><td>435</td><td>Pinus virginiana</td><td>12</td><td>Fair</td><td>Tree</td><td>535</td><td>Pinus virginiana</td><td>13</td><td>Good</td><td>Tree</td></tr><tr><td>336</td><td>Pinus taeda</td><td>15</td><td>Dead/Diseased</td><td>Tree</td><td></td><td>436</td><td>Pinus virginiana</td><td>10</td><td>Dead/Diseased</td><td>Tree</td><td>536</td><td>Pinus taeda</td><td>14</td><td>Good</td><td>Tree</td></tr><tr><td>337</td><td>Pinus taeda</td><td>25</td><td>Good</td><td>Heritage</td><td></td><td>437</td><td>Pinus virginiana</td><td>10</td><td>Good</td><td>Tree</td><td>537</td><td>Pinus taeda</td><td>14</td><td>Good</td><td>Tree</td></tr><tr><td>338</td><td>Pinus taeda</td><td>10</td><td>Good</td><td>Tree</td><td></td><td>438</td><td>Pinus taeda</td><td>20</td><td>Good</td><td>Tree</td><td>538</td><td>Pinus taeda</td><td>12</td><td>Good</td><td>Tree</td></tr><tr><td>339</td><td>Quercus falcata</td><td>10</td><td>Good</td><td>Tree</td><td></td><td>439</td><td>Pinus taeda</td><td>11</td><td>Good</td><td>Tree</td><td>539</td><td>Pinus taeda</td><td>21</td><td>Good</td><td>Tree</td></tr><tr><td>340</td><td>Quercus alba</td><td>17</td><td>Good</td><td>Tree</td><td></td><td>440</td><td>Pinus virginiana</td><td>17</td><td>Good</td><td>Tree</td><td>540</td><td>Fagus americana</td><td>15</td><td>Good</td><td>Tree</td></tr><tr><td>341</td><td>Liriodendron tulipifera</td><td>11</td><td>Good</td><td>Tree</td><td></td><td>441</td><td>Liquidambar styraciflua</td><td>15</td><td>Good</td><td>Tree</td><td>541</td><td>Pinus virginiana</td><td>11</td><td>Good</td><td>Tree</td></tr><tr><td>342</td><td>Pinus taeda</td><td>13</td><td>Good</td><td>Tree</td><td></td><td>442</td><td>Pinus taeda</td><td>14</td><td>Good</td><td>Tree</td><td>542</td><td>Pinus taeda</td><td>16</td><td>Good</td><td>Tree</td></tr><tr><td>343</td><td>Pinus taeda</td><td>14</td><td>Good</td><td>Tree</td><td></td><td>443</td><td>Pinus taeda</td><td>14</td><td>Good</td><td>Tree</td><td>543</td><td>Quercus falcata</td><td>13</td><td>Good</td><td>Tree</td></tr><tr><td>344</td><td>Liquidambar styraciflua</td><td>12</td><td>Good</td><td>Tree</td><td></td><td>444</td><td>Pinus taeda</td><td>12</td><td>Good</td><td>Tree</td><td>544</td><td>Pinus taeda</td><td>18</td><td>Good</td><td>Tree</td></tr><tr><td>345</td><td>Pinus taeda</td><td>23</td><td>Good</td><td>Tree</td><td></td><td>445</td><td>Pinus taeda</td><td>12</td><td>Good</td><td>Tree</td><td>545</td><td>Liquidambar styraciflua</td><td>15</td><td>Good</td><td>Tree</td></tr><tr><td>346</td><td>Liquidambar styraciflua</td><td>15</td><td>Good</td><td>Tree</td><td></td><td>446</td><td>Pinus taeda</td><td>13</td><td>Good</td><td>Tree</td><td>546</td><td>Quercus falcata</td><td>13</td><td>Good</td><td>Tree</td></tr><tr><td>347</td><td>Quercus rubra</td><td>10</td><td>Good</td><td>Tree</td><td></td><td>447</td><td>Pinus taeda</td><td>10</td><td>Fair</td><td>Tree</td><td>547</td><td>Pinus taeda</td><td>12</td><td>Good</td><td>Tree</td></tr><tr><td>348</td><td>Pinus virginiana</td><td>10</td><td>Good</td><td>Tree</td><td></td><td>448</td><td>Pinus taeda</td><td>14</td><td>Good</td><td>Tree</td><td>548</td><td>Pinus taeda</td><td>16</td><td>Good</td><td>Tree</td></tr><tr><td>349</td><td>Pinus taeda</td><td>14</td><td>Good</td><td>Tree</td><td></td><td>449</td><td>Pinus virginiana</td><td>11</td><td>Good</td><td>Tree</td><td>549</td><td>Pinus virginiana</td><td>14</td><td>Good</td><td>Tree</td></tr><tr><td>350</td><td>Pinus taeda</td><td>15</td><td>Good</td><td>Tree</td><td></td><td>450</td><td>Pinus virginiana</td><td>11</td><td>Good</td><td>Tree</td><td>550</td><td>Pinus taeda</td><td>12</td><td>Good</td><td>Tree</td></tr><tr><td>351</td><td>Pinus virginiana</td><td>10</td><td>Good</td><td>Tree</td><td></td><td>451</td><td>Pinus virginiana</td><td>13</td><td>Good</td><td>Tree</td><td>551</td><td>Liquidambar styraciflua</td><td>11</td><td>Good</td><td>Tree</td></tr><tr><td>352</td><td>Liquidambar styraciflua</td><td>10</td><td>Good</td><td>Tree</td><td>Preserve</td><td>452</td><td>Pinus virginiana</td><td>12</td><td>Good</td><td>Tree</td><td>552</td><td>Pinus taeda</td><td>13</td><td>Good</td><td>Tree</td></tr><tr><td>353</td><td>Pinus taeda</td><td>19</td><td>Good</td><td>Tree</td><td></td><td>453</td><td>Pinus taeda</td><td>13</td><td>Good</td><td>Tree</td><td>553</td><td>Liquidambar styraciflua</td><td>11</td><td>Good</td><td>Tree</td></tr><tr><td>354</td><td>Pinus taeda</td><td>14</td><td>Good</td><td>Tree</td><td>Preserve</td><td>454</td><td>Pinus taeda</td><td>15</td><td>Good</td><td>Tree</td><td>554</td><td>Pinus virginiana</td><td>14</td><td>Good</td><td>Tree</td></tr><tr><td>355</td><td>Liriodendron tulipifera</td><td>11</td><td>Good</td><td>Tree</td><td></td><td>455</td><td>Pinus virginiana</td><td>11</td><td>Good</td><td>Tree</td><td>555</td><td>Pinus virginiana</td><td>11</td><td>Fair</td><td>Tree</td></tr><tr><td>356</td><td>Pinus taeda</td><td>14</td><td>Good</td><td>Tree</td><td></td><td>456</td><td>Pinus taeda</td><td>10</td><td>Good</td><td>Tree</td><td>556</td><td>Pinus virginiana</td><td>12</td><td>Good</td><td>Tree</td></tr><tr><td>357</td><td>Pinus taeda</td><td>23</td><td>Good</td><td>Tree</td><td></td><td>457</td><td>Pinus taeda</td><td>14</td><td>Good</td><td>Tree</td><td>557</td><td>Pinus virginiana</td><td>12</td><td>Good</td><td>Tree</td></tr><tr><td>358</td><td>Pinus taeda</td><td>14</td><td>Poor</td><td>Tree</td><td></td><td>458</td><td>Pinus taeda</td><td>22</td><td>Good</td><td>Tree</td><td>558</td><td>Pinus taeda</td><td>15</td><td>Fair</td><td>Tree</td></tr><tr><td>359</td><td>Pinus taeda</td><td>15</td><td>Good</td><td>Tree</td><td></td><td>460</td><td>Pinus virginiana</td><td>15</td><td>Good</td><td>Tree</td><td>559</td><td>Pinus taeda</td><td>16</td><td>Good</td><td>Tree</td></tr><tr><td>360</td><td>Pinus taeda</td><td>14</td><td>Good</td><td>Tree</td><td></td><td>461</td><td>Quercus alba</td><td>11</td><td>Good</td><td>Tree</td><td>560</td><td>Quercus alba</td><td>11</td><td>Good</td><td>Tree</td></tr><tr><td>361</td><td>Pinus taeda</td><td>10</td><td>Good</td><td>Tree</td><td></td><td>462</td><td>Pinus virginiana</td><td>12</td><td>Good</td><td>Tree</td><td>561</td><td>Quercus alba</td><td>12</td><td>Good</td><td>Tree</td></tr><tr><td>362</td><td>Quercus falcata</td><td>16</td><td>Good</td><td>Tree</td><td></td><td>463</td><td>Pinus virginiana</td><td>13</td><td>Fair</td><td>Tree</td><td>562</td><td>Quercus falcata</td><td>12</td><td>Fair</td><td>Tree</td></tr><tr><td>363</td><td>Pinus taeda</td><td>13</td><td>Good</td><td>Tree</td><td></td><td>464</td><td>Quercus alba</td><td>11</td><td>Good</td><td>Tree</td><td>563</td><td>Pinus taeda</td><td>11</td><td>Fair</td><td>Tree</td></tr><tr><td>364</td><td>Quercus alba</td><td>16</td><td>Good</td><td>Tree</td><td></td><td>465</td><td>Pinus taeda</td><td>12</td><td>Good</td><td>Tree</td><td>564</td><td>Quercus falcata</td><td>11</td><td>Good</td><td>Tree</td></tr><tr><td>365</td><td>Quercus stellata</td><td>13</td><td>Good</td><td>Tree</td><td></td><td>466</td><td>Quercus rubra</td><td>10</td><td>Good</td><td>Tree</td><td>565</td><td>Pinus taeda</td><td>18</td><td>Good</td><td>Tree</td></tr><tr><td>366</td><td>Fagus americana</td><td>13</td><td>Good</td><td>Tree</td><td></td><td>467</td><td>Pinus virginiana</td><td>14</td><td>Fair</td><td>Tree</td><td>566</td><td>Pinus virginiana</td><td>12</td><td>Good</td><td>Tree</td></tr><tr><td>367</td><td>Liriodendron tulipifera</td><td>13</td><td>Good</td><td>Tree</td><td></td><td>468</td><td>Pinus virginiana</td><td>14</td><td>Good</td><td>Tree</td><td>567</td><td>Pinus virginiana</td><td>12</td><td>Good</td><td>Tree</td></tr><tr><td>368</td><td>Quercus rubra</td><td>10</td><td>Good</td><td>Tree</td><td></td><td>469</td><td>Pinus virginiana</td><td>13</td><td>Good</td><td>Tree</td><td>568</td><td>Liquidambar styraciflua</td><td>15</td><td>Good</td><td>Tree</td></tr><tr><td>369</td><td>Quercus alba</td><td>12</td><td>Good</td><td>Tree</td><td></td><td>470</td><td>Quercus velutina</td><td>14</td><td>Good</td><td>Tree</td><td>569</td><td>Quercus alba</td><td>11</td><td>Fair</td><td>Tree</td></tr><tr><td>370</td><td>Quercus falcata</td><td>13</td><td>Good</td><td>Tree</td><td></td><td>471</td><td>Pinus virginiana</td><td>14</td><td>Good</td><td>Tree</td><td>570</td><td>Pinus virginiana</td><td>12</td><td>Good</td><td>Tree</td></tr><tr><td>371</td><td>Pinus taeda</td><td>15</td><td>Good</td><td>Tree</td><td></td><td>472</td><td>Pinus virginiana</td><td>12</td><td>Good</td><td>Tree</td><td>571</td><td>Pinus taeda</td><td>16</td><td>Good</td><td>Tree</td></tr><tr><td>372</td><td>Liriodendron tulipifera</td><td>10</td><td>Good</td><td>Tree</td><td></td><td>473</td><td>Pinus taeda</td><td>17</td><td>Good</td><td>Tree</td><td>572</td><td>Pinus virginiana</td><td>13</td><td>Good</td><td>Tree</td></tr><tr><td>373</td><td>Pinus taeda</td><td>15</td><td>Good</td><td>Tree</td><td></td><td>474</td><td>Pinus virginiana</td><td>13</td><td>Good</td><td>Tree</td><td>573</td><td>Liquidambar styraciflua</td><td>11</td><td>Good</td><td>Tree</td></tr><tr><td>374</td><td>Liriodendron tulipifera</td><td>10</td><td>Fair</td><td>Tree</td><td></td><td>475</td><td>Pinus taeda</td><td>20</td><td>Good</td><td>Tree</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>375</td><td>Pinus taeda</td><td>15</td><td>Good</td><td>Tree</td><td></td><td>476</td><td>Quercus falcata</td><td>19</td><td>Good</td><td>Tree</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>376</td><td>Pinus taeda</td><td>11</td><td>Good</td><td>Tree</td><td></td><td>477</td><td>Pinus taeda</td><td>17</td><td>Good</td><td>Tree</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>377</td><td>Pinus taeda</td><td>11</td><td>Good</td><td>Tree</td><td></td><td>478</td><td>Ulmus alata</td><td>10</td><td>Good</td><td>Tree</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>378</td><td>Liquidambar styraciflua</td><td>11</td><td>Good</td><td>Tree</td><td>Preserve</td><td>479</td><td>Pinus taeda</td><td>11</td><td>Good</td><td>Tree</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>379</td><td>Pinus taeda</td><td>20</td><td>Good</td><td>Tree</td><td>Preserve</td><td>480</td><td>Quercus alba</td><td>18</td><td>Good</td><td>Tree</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>380</td><td>Liriodendron tulipifera</td><td>12</td><td>Fair</td><td>Tree</td><td>Preserve</td><td>481</td><td>Quercus alba</td><td>18</td><td>Good</td><td>Tree</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>381</td><td>Pinus taeda</td><td>22</td><td>Good</td><td>Tree</td><td>Preserve</td><td>482</td><td>Quercus alba</td><td>20</td><td>Good</td><td>Tree</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>382</td><td>Fagus americana</td><td>12</td><td>Good</td><td>Tree</td><td>Preserve</td><td>483</td><td>Quercus alba</td><td>14</td><td>Good</td><td>Tree</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>383</td><td>Liquidambar styraciflua</td><td>27</td><td>Fair</td><td>Tree</td><td>Preserve</td><td>484</td><td>Pinus virginiana</td><td>14</td><td>Good</td><td>Tree</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>384</td><td>Pinus taeda</td><td>24</td><td>Good</td><td>Heritage</td><td>Preserve</td><td>485</td><td>Quercus falcata</td><td>11</td><td>Good</td><td>Tree</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>385</td><td>Liriodendron tulipifera</td><td>12</td><td>Good</td><td>Tree</td><td>Preserve</td><td>486</td><td>Pinus taeda</td><td>20</td><td>Good</td><td>Tree</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>386</td><td>Pinus taeda</td><td>13</td><td>Good</td><td>Tree</td><td></td><td>487</td><td>Pinus virginiana</td><td>13</td><td>Good</td><td>Tree</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>387</td><td>Pinus taeda</td><td>11</td><td>Good</td><td>Tree</td><td></td><td>488</td><td>Liquidambar styraciflua</td><td>15</td><td>Good</td><td>Tree</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>388</td><td>Pinus taeda</td><td>18</td><td>Good</td><td>Tree</td><td></td><td>489</td><td>Pinus virginiana</td><td>13</td><td>Good</td><td>Tree</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>389</td><td>Liquidambar styraciflua</td><td>12</td><td>Good</td><td>Tree</td><td></td><td>490</td><td>Quercus alba</td><td>13</td><td>Good</td><td>Tree</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>390</td><td>Pinus taeda</td><td>20</td><td>Good</td><td>Tree</td><td>Preserve</td><td>491</td><td>Pinus taeda</td><td>14</td><td>Good</td><td>Tree</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>391</td><td>Pinus taeda</td><td>12</td><td>Good</td><td>Tree</td><td>Preserve</td><td>492</td><td>Quercus alba</td><td>33</td><td>Good</td><td>Heritage</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>392</td><td>Pinus taeda</td><td>17</td><td>Good</td><td>Tree</td><td>Preserve</td><td>493</td><td>Carya glabra</td><td>20</td><td>Fair</td><td>Tree</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>393</td><td>Pinus taeda</td><td>15</td><td>Good</td><td>Tree</td><td>Offsite</td><td>494</td><td>Quercus falcata</td><td>23</td><td>Good</td><td>Tree</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>394</td><td>Pinus taeda</td><td>13</td><td>Good</td><td>Tree</td><td></td><td>495</td><td>Quercus falcata</td><td>20</td><td>Good</td><td>Tree</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>395</td><td>Acer rubrum</td><td>11</td><td>Good</td><td>Tree</td><td></td><td>496</td><td>Quercus falcata</td><td>14</td><td>Good</td><td>Tree</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>396</td><td>Quercus alba</td><td>15</td><td>Good</td><td>Tree</td><td></td><td>497</td><td>Pinus virginiana</td><td>11</td><td>Good</td><td>Tree</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>397</td><td>Pinus taeda</td><td>20</td><td>Good</td><td>Tree</td><td></td><td>498</td><td>Pinus taeda</td><td>16</td><td>Good</td><td>Tree</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>398</td><td>Pinus virginiana</td><td>12</td><td>Good</td><td>Tree</td><td></td><td>499</td><td>Quercus alba</td><td>17</td><td>Good</td><td>Tree</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>399</td><td>Pinus virginiana</td><td>12</td><td>Dead/Diseased</td><td>Tree</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																300	Quercus falcata	14	Good	Tree	Preserve	400	Pinus virginiana	10	Good	Tree	500	Quercus falcata	10	Good	Tree	301	Pinus taeda	12	Good	Tree		401	Pinus taeda	13	Good	Tree	501	Quercus alba	11	Good	Tree	302	Pinus taeda	23	Fair	Tree		402	Pinus virginiana	11	Good	Tree	502	Quercus falcata	12	Good	Tree	303	Liquidambar styraciflua	10	Good	Tree		403	Pinus virginiana	10	Fair	Tree	503	uercus velutina	10	Good	Tree	304	Liquidambar styraciflua	10	Good	Tree		404	Quercus alba	14	Fair	Tree	504	Quercus falcata	13	Good	Tree	305	Pinus taeda	20	Good	Tree		405	Pinus virginiana	12	Good	Tree	505	Quercus alba	16	Good	Tree	306	Quercus falcata	13	Good	Tree		406	Quercus alba	21	Good	Tree	506	Pinus taeda	18	Fair	Tree	307	Quercus alba	11	Good	Tree		407	Quercus alba	12	Good	Tree	507	Quercus velutina	16	Good	Tree	308	Pinus taeda	19	Fair	Tree		408	Quercus falcata	11	Good	Tree	508	Pinus taeda	16	Good	Tree	309	Quercus alba	19	Good	Tree		409	Quercus falcata	11	Good	Tree	509	Pinus taeda	17	Good	Tree	310	Liquidambar styraciflua	23	Good	Tree		410	Quercus falcata	12	Good	Tree	510	Quercus alba	10	Good	Tree	311	Pinus taeda	23	Good	Tree		411	Pinus taeda	18	Good	Tree	511	Pinus taeda	15	Good	Tree	312	Liquidambar styraciflua	10	Good	Tree		412	Quercus falcata	12	Good	Tree	512	Pinus virginiana	14	Good	Tree	313	Liquidambar styraciflua	11	Good	Tree		413	Quercus falcata	13	Good	Tree	513	Pinus virginiana	12	Fair	Tree	314	Pinus taeda	21	Good	Tree		414	Pinus taeda	13	Good	Tree	514	Quercus falcata	11	Good	Tree	315	Pinus taeda	15	Good	Tree		415	Quercus falcata	12	Good	Tree	515	Pinus virginiana	0	Good	Tree	316	Quercus alba	10	Good	Tree		416	Pinus taeda	15	Good	Tree	516	Pinus taeda	12	Good	Tree	317	Pinus taeda	21	Good	Tree		417	Pinus virginiana	12	Good	Tree	517	Pinus taeda	14	Fair	Tree	318	Pinus taeda	19	Good	Tree		418	Pinus taeda	15	Good	Tree	518	Quercus alba	11	Good	Tree	319	Pinus taeda	13	Good	Tree		419	Pinus taeda	19	Good	Tree	519	Pinus virginiana	11	Good	Tree	320	Pinus taeda	21	Fair	Tree		420	Quercus falcata	11	Fair	Tree	520	Quercus alba	11	Good	Tree	321	Pinus taeda	13	Good	Tree	Preserve	421	Pinus taeda	14	Good	Tree	521	Quercus alba	11	Good	Tree	322	Pinus taeda	23	Good	Tree	Preserve	422	Quercus falcata	12	Good	Tree	522	Pinus virginiana	17	Good	Tree	323	Pinus virginiana	15	Good	Tree	Preserve	423	Pinus taeda	17	Good	Tree	523	Pinus virginiana	11	Fair	Tree	324	Fagus americana	10	Good	Tree		424	Pinus taeda	10	Good	Tree	524	Pinus taeda	15	Good	Tree	325	Pinus virginiana	14	Good	Tree		425	Pinus taeda	16	Good	Tree	525	Quercus alba	18	Good	Tree	326	Pinus taeda	13	Good	Tree	Preserve	426	Pinus taeda	15	Good	Tree	526	Pinus virginiana	15	Good	Tree	327	Liquidambar styraciflua	16	Good	Tree	Preserve	427	Pinus virginiana	12	Good	Tree	527	Pinus taeda	11	Good	Tree	328	Acer rubrum	15	Good	Tree	Preserve	428	Quercus falcata	13	Good	Tree	528	Pinus taeda	15	Good	Tree	329	Liriodendron tulipifera	11	Good	Tree	Preserve	429	Quercus falcata	13	Good	Tree	529	Quercus rubra	12	Good	Tree	330	Carya glabra	20	Good	Tree	Preserve	430	Pinus taeda	15	Good	Tree	530	Quercus falcata	10	Good	Tree	331	Fagus americana	17	Good	Tree	Preserve	431	Pinus virginiana	14	Good	Tree	531	Pinus taeda	12	Good	Tree	332	Liriodendron tulipifera	11	Good	Tree	Preserve	432	Pinus virginiana	12	Fair	Tree	532	Quercus falcata	10	Good	Tree	333	Liquidambar styraciflua	10	Good	Tree	Preserve	433	Quercus velutina	23	Good	Tree	533	Pinus taeda	11	Fair	Tree	334	Liriodendron tulipifera	11	Good	Tree	Preserve	434	Pinus virginiana	13	Good	Tree	534	Quercus falcata	13	Good	Tree	335	Quercus falcata	11	Good	Tree		435	Pinus virginiana	12	Fair	Tree	535	Pinus virginiana	13	Good	Tree	336	Pinus taeda	15	Dead/Diseased	Tree		436	Pinus virginiana	10	Dead/Diseased	Tree	536	Pinus taeda	14	Good	Tree	337	Pinus taeda	25	Good	Heritage		437	Pinus virginiana	10	Good	Tree	537	Pinus taeda	14	Good	Tree	338	Pinus taeda	10	Good	Tree		438	Pinus taeda	20	Good	Tree	538	Pinus taeda	12	Good	Tree	339	Quercus falcata	10	Good	Tree		439	Pinus taeda	11	Good	Tree	539	Pinus taeda	21	Good	Tree	340	Quercus alba	17	Good	Tree		440	Pinus virginiana	17	Good	Tree	540	Fagus americana	15	Good	Tree	341	Liriodendron tulipifera	11	Good	Tree		441	Liquidambar styraciflua	15	Good	Tree	541	Pinus virginiana	11	Good	Tree	342	Pinus taeda	13	Good	Tree		442	Pinus taeda	14	Good	Tree	542	Pinus taeda	16	Good	Tree	343	Pinus taeda	14	Good	Tree		443	Pinus taeda	14	Good	Tree	543	Quercus falcata	13	Good	Tree	344	Liquidambar styraciflua	12	Good	Tree		444	Pinus taeda	12	Good	Tree	544	Pinus taeda	18	Good	Tree	345	Pinus taeda	23	Good	Tree		445	Pinus taeda	12	Good	Tree	545	Liquidambar styraciflua	15	Good	Tree	346	Liquidambar styraciflua	15	Good	Tree		446	Pinus taeda	13	Good	Tree	546	Quercus falcata	13	Good	Tree	347	Quercus rubra	10	Good	Tree		447	Pinus taeda	10	Fair	Tree	547	Pinus taeda	12	Good	Tree	348	Pinus virginiana	10	Good	Tree		448	Pinus taeda	14	Good	Tree	548	Pinus taeda	16	Good	Tree	349	Pinus taeda	14	Good	Tree		449	Pinus virginiana	11	Good	Tree	549	Pinus virginiana	14	Good	Tree	350	Pinus taeda	15	Good	Tree		450	Pinus virginiana	11	Good	Tree	550	Pinus taeda	12	Good	Tree	351	Pinus virginiana	10	Good	Tree		451	Pinus virginiana	13	Good	Tree	551	Liquidambar styraciflua	11	Good	Tree	352	Liquidambar styraciflua	10	Good	Tree	Preserve	452	Pinus virginiana	12	Good	Tree	552	Pinus taeda	13	Good	Tree	353	Pinus taeda	19	Good	Tree		453	Pinus taeda	13	Good	Tree	553	Liquidambar styraciflua	11	Good	Tree	354	Pinus taeda	14	Good	Tree	Preserve	454	Pinus taeda	15	Good	Tree	554	Pinus virginiana	14	Good	Tree	355	Liriodendron tulipifera	11	Good	Tree		455	Pinus virginiana	11	Good	Tree	555	Pinus virginiana	11	Fair	Tree	356	Pinus taeda	14	Good	Tree		456	Pinus taeda	10	Good	Tree	556	Pinus virginiana	12	Good	Tree	357	Pinus taeda	23	Good	Tree		457	Pinus taeda	14	Good	Tree	557	Pinus virginiana	12	Good	Tree	358	Pinus taeda	14	Poor	Tree		458	Pinus taeda	22	Good	Tree	558	Pinus taeda	15	Fair	Tree	359	Pinus taeda	15	Good	Tree		460	Pinus virginiana	15	Good	Tree	559	Pinus taeda	16	Good	Tree	360	Pinus taeda	14	Good	Tree		461	Quercus alba	11	Good	Tree	560	Quercus alba	11	Good	Tree	361	Pinus taeda	10	Good	Tree		462	Pinus virginiana	12	Good	Tree	561	Quercus alba	12	Good	Tree	362	Quercus falcata	16	Good	Tree		463	Pinus virginiana	13	Fair	Tree	562	Quercus falcata	12	Fair	Tree	363	Pinus taeda	13	Good	Tree		464	Quercus alba	11	Good	Tree	563	Pinus taeda	11	Fair	Tree	364	Quercus alba	16	Good	Tree		465	Pinus taeda	12	Good	Tree	564	Quercus falcata	11	Good	Tree	365	Quercus stellata	13	Good	Tree		466	Quercus rubra	10	Good	Tree	565	Pinus taeda	18	Good	Tree	366	Fagus americana	13	Good	Tree		467	Pinus virginiana	14	Fair	Tree	566	Pinus virginiana	12	Good	Tree	367	Liriodendron tulipifera	13	Good	Tree		468	Pinus virginiana	14	Good	Tree	567	Pinus virginiana	12	Good	Tree	368	Quercus rubra	10	Good	Tree		469	Pinus virginiana	13	Good	Tree	568	Liquidambar styraciflua	15	Good	Tree	369	Quercus alba	12	Good	Tree		470	Quercus velutina	14	Good	Tree	569	Quercus alba	11	Fair	Tree	370	Quercus falcata	13	Good	Tree		471	Pinus virginiana	14	Good	Tree	570	Pinus virginiana	12	Good	Tree	371	Pinus taeda	15	Good	Tree		472	Pinus virginiana	12	Good	Tree	571	Pinus taeda	16	Good	Tree	372	Liriodendron tulipifera	10	Good	Tree		473	Pinus taeda	17	Good	Tree	572	Pinus virginiana	13	Good	Tree	373	Pinus taeda	15	Good	Tree		474	Pinus virginiana	13	Good	Tree	573	Liquidambar styraciflua	11	Good	Tree	374	Liriodendron tulipifera	10	Fair	Tree		475	Pinus taeda	20	Good	Tree						375	Pinus taeda	15	Good	Tree		476	Quercus falcata	19	Good	Tree						376	Pinus taeda	11	Good	Tree		477	Pinus taeda	17	Good	Tree						377	Pinus taeda	11	Good	Tree		478	Ulmus alata	10	Good	Tree						378	Liquidambar styraciflua	11	Good	Tree	Preserve	479	Pinus taeda	11	Good	Tree						379	Pinus taeda	20	Good	Tree	Preserve	480	Quercus alba	18	Good	Tree						380	Liriodendron tulipifera	12	Fair	Tree	Preserve	481	Quercus alba	18	Good	Tree						381	Pinus taeda	22	Good	Tree	Preserve	482	Quercus alba	20	Good	Tree						382	Fagus americana	12	Good	Tree	Preserve	483	Quercus alba	14	Good	Tree						383	Liquidambar styraciflua	27	Fair	Tree	Preserve	484	Pinus virginiana	14	Good	Tree						384	Pinus taeda	24	Good	Heritage	Preserve	485	Quercus falcata	11	Good	Tree						385	Liriodendron tulipifera	12	Good	Tree	Preserve	486	Pinus taeda	20	Good	Tree						386	Pinus taeda	13	Good	Tree		487	Pinus virginiana	13	Good	Tree						387	Pinus taeda	11	Good	Tree		488	Liquidambar styraciflua	15	Good	Tree						388	Pinus taeda	18	Good	Tree		489	Pinus virginiana	13	Good	Tree						389	Liquidambar styraciflua	12	Good	Tree		490	Quercus alba	13	Good	Tree						390	Pinus taeda	20	Good	Tree	Preserve	491	Pinus taeda	14	Good	Tree						391	Pinus taeda	12	Good	Tree	Preserve	492	Quercus alba	33	Good	Heritage						392	Pinus taeda	17	Good	Tree	Preserve	493	Carya glabra	20	Fair	Tree						393	Pinus taeda	15	Good	Tree	Offsite	494	Quercus falcata	23	Good	Tree						394	Pinus taeda	13	Good	Tree		495	Quercus falcata	20	Good	Tree						395	Acer rubrum	11	Good	Tree		496	Quercus falcata	14	Good	Tree						396	Quercus alba	15	Good	Tree		497	Pinus virginiana	11	Good	Tree						397	Pinus taeda	20	Good	Tree		498	Pinus taeda	16	Good	Tree						398	Pinus virginiana	12	Good	Tree		499	Quercus alba	17	Good	Tree						399	Pinus virginiana	12	Dead/Diseased	Tree											
300	Quercus falcata	14	Good	Tree	Preserve	400	Pinus virginiana	10	Good	Tree	500	Quercus falcata	10	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
301	Pinus taeda	12	Good	Tree		401	Pinus taeda	13	Good	Tree	501	Quercus alba	11	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
302	Pinus taeda	23	Fair	Tree		402	Pinus virginiana	11	Good	Tree	502	Quercus falcata	12	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
303	Liquidambar styraciflua	10	Good	Tree		403	Pinus virginiana	10	Fair	Tree	503	uercus velutina	10	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
304	Liquidambar styraciflua	10	Good	Tree		404	Quercus alba	14	Fair	Tree	504	Quercus falcata	13	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
305	Pinus taeda	20	Good	Tree		405	Pinus virginiana	12	Good	Tree	505	Quercus alba	16	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
306	Quercus falcata	13	Good	Tree		406	Quercus alba	21	Good	Tree	506	Pinus taeda	18	Fair	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
307	Quercus alba	11	Good	Tree		407	Quercus alba	12	Good	Tree	507	Quercus velutina	16	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
308	Pinus taeda	19	Fair	Tree		408	Quercus falcata	11	Good	Tree	508	Pinus taeda	16	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
309	Quercus alba	19	Good	Tree		409	Quercus falcata	11	Good	Tree	509	Pinus taeda	17	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
310	Liquidambar styraciflua	23	Good	Tree		410	Quercus falcata	12	Good	Tree	510	Quercus alba	10	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
311	Pinus taeda	23	Good	Tree		411	Pinus taeda	18	Good	Tree	511	Pinus taeda	15	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
312	Liquidambar styraciflua	10	Good	Tree		412	Quercus falcata	12	Good	Tree	512	Pinus virginiana	14	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
313	Liquidambar styraciflua	11	Good	Tree		413	Quercus falcata	13	Good	Tree	513	Pinus virginiana	12	Fair	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
314	Pinus taeda	21	Good	Tree		414	Pinus taeda	13	Good	Tree	514	Quercus falcata	11	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
315	Pinus taeda	15	Good	Tree		415	Quercus falcata	12	Good	Tree	515	Pinus virginiana	0	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
316	Quercus alba	10	Good	Tree		416	Pinus taeda	15	Good	Tree	516	Pinus taeda	12	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
317	Pinus taeda	21	Good	Tree		417	Pinus virginiana	12	Good	Tree	517	Pinus taeda	14	Fair	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
318	Pinus taeda	19	Good	Tree		418	Pinus taeda	15	Good	Tree	518	Quercus alba	11	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
319	Pinus taeda	13	Good	Tree		419	Pinus taeda	19	Good	Tree	519	Pinus virginiana	11	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
320	Pinus taeda	21	Fair	Tree		420	Quercus falcata	11	Fair	Tree	520	Quercus alba	11	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
321	Pinus taeda	13	Good	Tree	Preserve	421	Pinus taeda	14	Good	Tree	521	Quercus alba	11	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
322	Pinus taeda	23	Good	Tree	Preserve	422	Quercus falcata	12	Good	Tree	522	Pinus virginiana	17	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
323	Pinus virginiana	15	Good	Tree	Preserve	423	Pinus taeda	17	Good	Tree	523	Pinus virginiana	11	Fair	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
324	Fagus americana	10	Good	Tree		424	Pinus taeda	10	Good	Tree	524	Pinus taeda	15	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
325	Pinus virginiana	14	Good	Tree		425	Pinus taeda	16	Good	Tree	525	Quercus alba	18	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
326	Pinus taeda	13	Good	Tree	Preserve	426	Pinus taeda	15	Good	Tree	526	Pinus virginiana	15	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
327	Liquidambar styraciflua	16	Good	Tree	Preserve	427	Pinus virginiana	12	Good	Tree	527	Pinus taeda	11	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
328	Acer rubrum	15	Good	Tree	Preserve	428	Quercus falcata	13	Good	Tree	528	Pinus taeda	15	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
329	Liriodendron tulipifera	11	Good	Tree	Preserve	429	Quercus falcata	13	Good	Tree	529	Quercus rubra	12	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
330	Carya glabra	20	Good	Tree	Preserve	430	Pinus taeda	15	Good	Tree	530	Quercus falcata	10	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
331	Fagus americana	17	Good	Tree	Preserve	431	Pinus virginiana	14	Good	Tree	531	Pinus taeda	12	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
332	Liriodendron tulipifera	11	Good	Tree	Preserve	432	Pinus virginiana	12	Fair	Tree	532	Quercus falcata	10	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
333	Liquidambar styraciflua	10	Good	Tree	Preserve	433	Quercus velutina	23	Good	Tree	533	Pinus taeda	11	Fair	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
334	Liriodendron tulipifera	11	Good	Tree	Preserve	434	Pinus virginiana	13	Good	Tree	534	Quercus falcata	13	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
335	Quercus falcata	11	Good	Tree		435	Pinus virginiana	12	Fair	Tree	535	Pinus virginiana	13	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
336	Pinus taeda	15	Dead/Diseased	Tree		436	Pinus virginiana	10	Dead/Diseased	Tree	536	Pinus taeda	14	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
337	Pinus taeda	25	Good	Heritage		437	Pinus virginiana	10	Good	Tree	537	Pinus taeda	14	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
338	Pinus taeda	10	Good	Tree		438	Pinus taeda	20	Good	Tree	538	Pinus taeda	12	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
339	Quercus falcata	10	Good	Tree		439	Pinus taeda	11	Good	Tree	539	Pinus taeda	21	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
340	Quercus alba	17	Good	Tree		440	Pinus virginiana	17	Good	Tree	540	Fagus americana	15	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
341	Liriodendron tulipifera	11	Good	Tree		441	Liquidambar styraciflua	15	Good	Tree	541	Pinus virginiana	11	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
342	Pinus taeda	13	Good	Tree		442	Pinus taeda	14	Good	Tree	542	Pinus taeda	16	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
343	Pinus taeda	14	Good	Tree		443	Pinus taeda	14	Good	Tree	543	Quercus falcata	13	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
344	Liquidambar styraciflua	12	Good	Tree		444	Pinus taeda	12	Good	Tree	544	Pinus taeda	18	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
345	Pinus taeda	23	Good	Tree		445	Pinus taeda	12	Good	Tree	545	Liquidambar styraciflua	15	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
346	Liquidambar styraciflua	15	Good	Tree		446	Pinus taeda	13	Good	Tree	546	Quercus falcata	13	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
347	Quercus rubra	10	Good	Tree		447	Pinus taeda	10	Fair	Tree	547	Pinus taeda	12	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
348	Pinus virginiana	10	Good	Tree		448	Pinus taeda	14	Good	Tree	548	Pinus taeda	16	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
349	Pinus taeda	14	Good	Tree		449	Pinus virginiana	11	Good	Tree	549	Pinus virginiana	14	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
350	Pinus taeda	15	Good	Tree		450	Pinus virginiana	11	Good	Tree	550	Pinus taeda	12	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
351	Pinus virginiana	10	Good	Tree		451	Pinus virginiana	13	Good	Tree	551	Liquidambar styraciflua	11	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
352	Liquidambar styraciflua	10	Good	Tree	Preserve	452	Pinus virginiana	12	Good	Tree	552	Pinus taeda	13	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
353	Pinus taeda	19	Good	Tree		453	Pinus taeda	13	Good	Tree	553	Liquidambar styraciflua	11	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
354	Pinus taeda	14	Good	Tree	Preserve	454	Pinus taeda	15	Good	Tree	554	Pinus virginiana	14	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
355	Liriodendron tulipifera	11	Good	Tree		455	Pinus virginiana	11	Good	Tree	555	Pinus virginiana	11	Fair	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
356	Pinus taeda	14	Good	Tree		456	Pinus taeda	10	Good	Tree	556	Pinus virginiana	12	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
357	Pinus taeda	23	Good	Tree		457	Pinus taeda	14	Good	Tree	557	Pinus virginiana	12	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
358	Pinus taeda	14	Poor	Tree		458	Pinus taeda	22	Good	Tree	558	Pinus taeda	15	Fair	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
359	Pinus taeda	15	Good	Tree		460	Pinus virginiana	15	Good	Tree	559	Pinus taeda	16	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
360	Pinus taeda	14	Good	Tree		461	Quercus alba	11	Good	Tree	560	Quercus alba	11	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
361	Pinus taeda	10	Good	Tree		462	Pinus virginiana	12	Good	Tree	561	Quercus alba	12	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
362	Quercus falcata	16	Good	Tree		463	Pinus virginiana	13	Fair	Tree	562	Quercus falcata	12	Fair	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
363	Pinus taeda	13	Good	Tree		464	Quercus alba	11	Good	Tree	563	Pinus taeda	11	Fair	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
364	Quercus alba	16	Good	Tree		465	Pinus taeda	12	Good	Tree	564	Quercus falcata	11	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
365	Quercus stellata	13	Good	Tree		466	Quercus rubra	10	Good	Tree	565	Pinus taeda	18	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
366	Fagus americana	13	Good	Tree		467	Pinus virginiana	14	Fair	Tree	566	Pinus virginiana	12	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
367	Liriodendron tulipifera	13	Good	Tree		468	Pinus virginiana	14	Good	Tree	567	Pinus virginiana	12	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
368	Quercus rubra	10	Good	Tree		469	Pinus virginiana	13	Good	Tree	568	Liquidambar styraciflua	15	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
369	Quercus alba	12	Good	Tree		470	Quercus velutina	14	Good	Tree	569	Quercus alba	11	Fair	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
370	Quercus falcata	13	Good	Tree		471	Pinus virginiana	14	Good	Tree	570	Pinus virginiana	12	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
371	Pinus taeda	15	Good	Tree		472	Pinus virginiana	12	Good	Tree	571	Pinus taeda	16	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
372	Liriodendron tulipifera	10	Good	Tree		473	Pinus taeda	17	Good	Tree	572	Pinus virginiana	13	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
373	Pinus taeda	15	Good	Tree		474	Pinus virginiana	13	Good	Tree	573	Liquidambar styraciflua	11	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
374	Liriodendron tulipifera	10	Fair	Tree		475	Pinus taeda	20	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
375	Pinus taeda	15	Good	Tree		476	Quercus falcata	19	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
376	Pinus taeda	11	Good	Tree		477	Pinus taeda	17	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
377	Pinus taeda	11	Good	Tree		478	Ulmus alata	10	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
378	Liquidambar styraciflua	11	Good	Tree	Preserve	479	Pinus taeda	11	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
379	Pinus taeda	20	Good	Tree	Preserve	480	Quercus alba	18	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
380	Liriodendron tulipifera	12	Fair	Tree	Preserve	481	Quercus alba	18	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
381	Pinus taeda	22	Good	Tree	Preserve	482	Quercus alba	20	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
382	Fagus americana	12	Good	Tree	Preserve	483	Quercus alba	14	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
383	Liquidambar styraciflua	27	Fair	Tree	Preserve	484	Pinus virginiana	14	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
384	Pinus taeda	24	Good	Heritage	Preserve	485	Quercus falcata	11	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
385	Liriodendron tulipifera	12	Good	Tree	Preserve	486	Pinus taeda	20	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
386	Pinus taeda	13	Good	Tree		487	Pinus virginiana	13	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
387	Pinus taeda	11	Good	Tree		488	Liquidambar styraciflua	15	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
388	Pinus taeda	18	Good	Tree		489	Pinus virginiana	13	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
389	Liquidambar styraciflua	12	Good	Tree		490	Quercus alba	13	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
390	Pinus taeda	20	Good	Tree	Preserve	491	Pinus taeda	14	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
391	Pinus taeda	12	Good	Tree	Preserve	492	Quercus alba	33	Good	Heritage																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
392	Pinus taeda	17	Good	Tree	Preserve	493	Carya glabra	20	Fair	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
393	Pinus taeda	15	Good	Tree	Offsite	494	Quercus falcata	23	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
394	Pinus taeda	13	Good	Tree		495	Quercus falcata	20	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
395	Acer rubrum	11	Good	Tree		496	Quercus falcata	14	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
396	Quercus alba	15	Good	Tree		497	Pinus virginiana	11	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
397	Pinus taeda	20	Good	Tree		498	Pinus taeda	16	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
398	Pinus virginiana	12	Good	Tree		499	Quercus alba	17	Good	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
399	Pinus virginiana	12	Dead/Diseased	Tree																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
SUBMITTAL & REVISION RECORD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
NO. DATE DESCRIPTION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
1 2/3/2023 REVISIONS PER CITY COMMENTS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
2 4/3/2023 ADR REVISION #2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															



LANDSCAPE CALCULATIONS

STREET PROTECTIVE YARD - TYPE C2 (15' WIDTH)
FRONTAGE LENGTH - SUNGATE BLVD.: 1,005 LF
STREET TREES REQUIRED: 40, 3" CALIPER TREES (4 PER 100 LF OF FRONTAGE, 120" TOTAL)
STREET TREES PROVIDED: >40 EXISTING TREES (DENSE FOREST), 3" CALIPER MINIMUM

FRONTAGE LENGTH - STONEY MOSS DR.: 84 LF
STREET TREES REQUIRED: 4, 3" CALIPER TREES (4 PER 100 LF OF FRONTAGE, 12" TOTAL)
STREET TREES PROVIDED: >4 EXISTING TREES (DENSE FOREST), 3" CALIPER MINIMUM

NOTE: SEE SHEET TP-1 FOR EXISTING TREES USED FOR STREET TREE CREDIT. AN EXEMPTION WILL BE SUBMITTED FOR STREET TREE LOCATIONS.

PARKING AREA
VEHICULAR SURFACE AREA: 70,444 SF
TREES REQUIRED: 35 TREES (1 TREE PER 2,000 SF)
TREES PROVIDED: 35 TREES
SHRUBS REQUIRED: 141 SHRUBS (1 SHRUB PER 500 SF)
SHRUBS PROVIDED: 152 SHRUBS

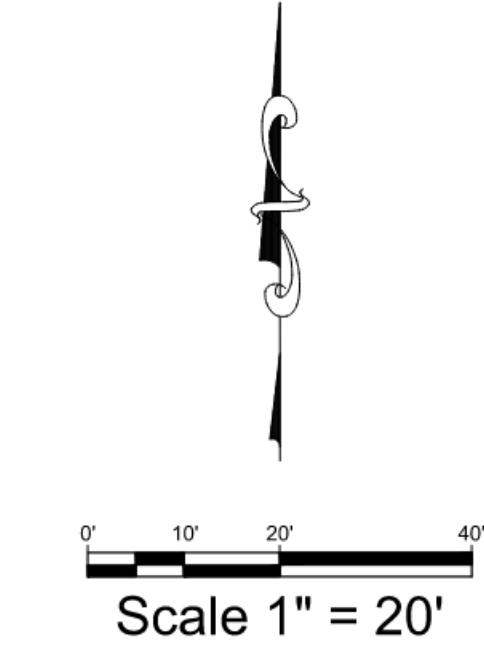
TRANSITIONAL PROTECTIVE YARD (TPY)
PROPOSED USE/ADJOINING USE (WEST/SOUTH): APARTMENTS
TPY TYPE: A2
AVERAGE WIDTH REQUIRED: 10 FEET
AVERAGE WIDTH PROVIDED: 12 FEET

TOTAL LENGTH - NEAR STONEY MOSS DR.: 472 LF
SHADE TREES REQUIRED: 19 TREES (4 TREES PER 100 LF)
SHADE TREES PROVIDED: 19 TREES
UNDERSTORY TREES REQUIRED: 19 TREES (4 TREES PER 100 LF)
UNDERSTORY TREES PROVIDED: 16 TREES*

TOTAL LENGTH - WEST: 496 LF
SHADE TREES REQUIRED: 20 TREES (4 TREES PER 100 LF)
SHADE TREES PROVIDED: 20 TREES
UNDERSTORY TREES REQUIRED: 20 TREES (4 TREES PER 100 LF)
UNDERSTORY TREES PROVIDED: 23 TREES*

TOTAL LENGTH - SOUTH: 371 LF
SHADE TREES REQUIRED: 15 TREES (4 TREES PER 100 LF)
SHADE TREES PROVIDED: 15 TREES (12 PROPOSED, 3 EXISTING)
UNDERSTORY TREES REQUIRED: 15 TREES (4 TREES PER 100 LF)
UNDERSTORY TREES PROVIDED: 15 TREES

* THREE UNDERSTORY TREES FROM THE STONEY MOSS TPY HAVE BEEN PLACED IN THE WEST TPY DUE TO UTILITIES AND PHYSICAL SPACE LIMITATIONS.



MATCHLINE - SEE SHEET LP-2

SUBMITTAL & REVISION RECORD	
NO	DATE
1	2/3/2023
2	4/3/2023

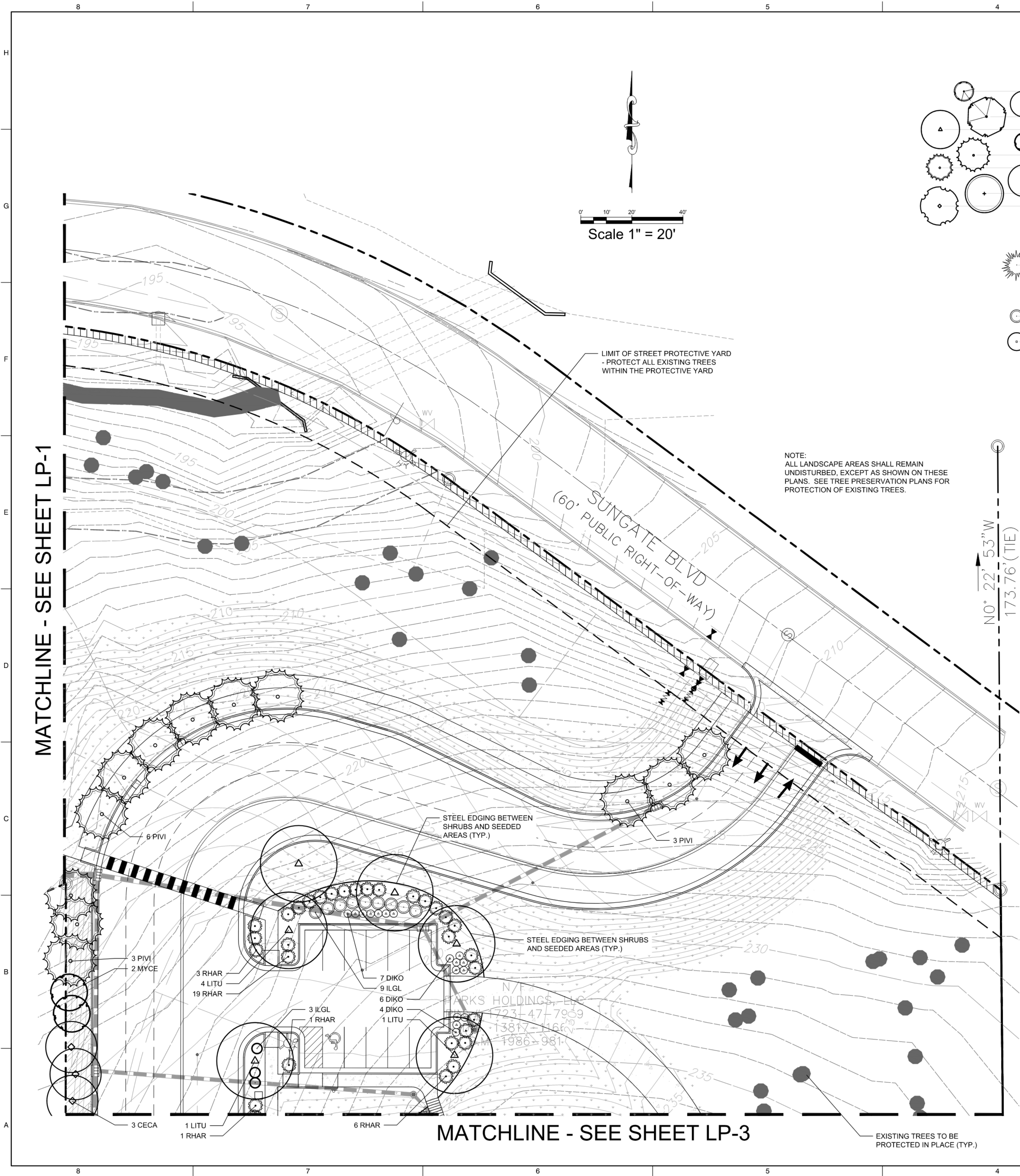
Civil & Environmental Consultants, Inc.
3701 Arco Corporate Drive - Suite 400 - Charlotte, NC 28273
Ph: 980.237.0373 - Fax: 980.237.0372
www.ceeinc.com

**PERFORMANCE CHARTER
SCHOOL DEVELOPMENT
RALEIGH OAK ACADEMY
3400 SUNGATE BLVD
RALEIGH, NORTH CAROLINA**

PLANTING PLAN

DATE:	APRIL 2023	DRAWN BY:	LML
DWG SCALE: <td>AS SHOWN</td> <td>CHECKED BY:<td>LML/RM</td></td>	AS SHOWN	CHECKED BY: <td>LML/RM</td>	LML/RM
PROJECT NO: <td></td> <td></td> <td>318-183</td>			318-183
APPROVED BY: <td></td> <td></td> <td>LML</td>			LML

DRAWING NO.: **LP-1**



PLANT LEGEND

SYMBOL	BOTANIC NAME	COMMON NAME	SIZE	SPACING	QUANTITY	REMARKS
TREES						
AMCA	Amelanchier canadensis	Canadian Serviceberry	2" cal. min.	Per plan	15	8' high min.
CECA	Cercis canadensis	Eastern Redbud	2" cal. min.	Per plan	17	8' high min.
FAAM	Fagus americana	American Beech	2" cal. min.	Per plan	2	8' high min.
LITU	Liriodendron tulipifera	Tuliptree	2" cal. min.	Per plan	6	8' high min.
MYCE	Myrica cerifera	Wax Myrtle	2" cal. min.	Per plan	26	8' high min.
PITA	Pinus taeda	Loblolly Pine	2" cal. min.	Per plan	16	8' high min.
PIVI	Pinus virginiana	Virginia Pine	2" cal. min.	Per plan	28	8' high min.
QUAL	Quercus alba	White Oak	2" cal. min.	Per plan	18	8' high min.
QUFA	Quercus falcata	Southern Red Oak	2" cal. min.	Per plan	6	8' high min.
TIAM	Tilia americana 'Redmond'	Redmond Linden	2" cal. min.	Per plan	6	8' high min.

NOTE: ALL TREES SHALL BE CONTAINER-GROWN, CONTAINER SIZE AS APPROPRIATE FOR THE CALIPER SPECIFIED. SEE SPECIFICATIONS FOR PROPER ROOT QUALITY.

SHRUBS

CAAM	Callicarpa americana	Beautyberry	#5 cont. min.	5' o.c.	9	18" high min.
COAV	Corylus avellana 'Contorta'	Harry Lauder's Walking Stick	#15 cont.	Per plan	1	18" high min.
DIKO	Diervilla x 'G2X88544'	Kodiak Orange Diervilla	#5 cont. min.	3' o.c.	67	18" high min.
FOGA	Fothergilla gardenii 'Blue Mist'	Blue Mist Fothergilla	#5 cont. min.	3' o.c.	71	Low growing
HYFR	Hypericum frondosum	St. Johnswort	#5 cont. min.	4' o.c.	41	18" high min.
ILGL	Ilex glabra	Inkberry	#5 cont. min.	5' o.c.	31	18" high min.
ILSH	Ilex glabra 'Shamrock'	Shamrock Inkberry	#5 cont. min.	4' o.c.	83	18" high min.
KALA	Kalmia latifolia	Mountain Laurel	#5 cont. min.	6' o.c.	7	18" high min.; species only
RHAR	Rhus aromatica 'Gro-Low'	Dwarf Fragrant Sumac	#5 cont. min.	5' o.c.	84	Low growing
SYOR	Symphoricarpos orbiculatus	Coralberry	#5 cont. min.	5' o.c.	11	Low growing

TURF AND SEED

Festuca hybrids	Tall Fescue	Sod	---	---	---	---
---	Native seed mix - sun (TBD)	Hydroseed	---	---	---	---
---	Native seed mix - shade (TBD)	Hydroseed	---	---	---	---
---	Detention pond seed mix (TBD)	Hydroseed	---	---	---	---

- A 42"-48" DIA. GRANITE BOULDER - BURY 1/3 TO 1/2 OF HEIGHT (TYP.)
B 24"-30" DIA. GRANITE BOULDER - BURY 1/3 TO 1/2 OF HEIGHT (TYP.)
C 12"-18" DIA. GRANITE BOULDER - BURY 1/3 TO 1/2 OF HEIGHT (TYP.)

NOTE: BOULDERS SHALL BE FROM A LOCAL SOURCE. SEE DETAIL ON SHEET LP-4.

PLANTING ON SLOPES

FOR ALL SLOPES 1:3 OR STEEPER, INSTALL BIODEGRADABLE JUTE NETTING OVER HYDROSEED OR MULCH (AS APPROPRIATE), AND STAKE IN PLACE PER MANUFACTURER RECOMMENDATIONS.

MULCHES

AFTER ALL PLANTING IS COMPLETE, CONTRACTOR SHALL INSTALL 3" THICK LAYER OF 1-1/2" SHREDDED WOOD MULCH, NATURAL (UNDYED), IN ALL PLANTING AREAS (EXCEPT FOR TURF AND SEEDED AREAS, AND AS NOTED BELOW). CONTRACTOR SHALL SUBMIT SAMPLES OF ALL MULCHES TO LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL PRIOR TO CONSTRUCTION. ABSOLUTELY NO EXPOSED GROUND SHALL BE LEFT SHOWING ANYWHERE ON THE PROJECT AFTER MULCH HAS BEEN INSTALLED (SUBJECT TO THE CONDITIONS AND REQUIREMENTS OF THE "GENERAL GRADING AND PLANTING NOTES" AND SPECIFICATIONS).

ENGINEERED WOOD FIBER FOR PLAYGROUND SURFACING, 12" DEEP (ANY APPROVED)

ROOT BARRIERS

THE CONTRACTOR SHALL INSTALL ROOT BARRIERS NEAR ALL NEWLY-PLANTED TREES THAT ARE LOCATED WITHIN FIVE (5) FEET OF PAVING OR CURBS. ROOT BARRIERS SHALL BE "CENTURY" OR "DEEP-ROOT" 24" DEEP PANELS (OR EQUAL). BARRIERS SHALL BE LOCATED IMMEDIATELY ADJACENT TO HARDSCAPE. INSTALL PANELS PER MANUFACTURER'S RECOMMENDATIONS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR USE ROOT BARRIERS OF A TYPE THAT COMPLETELY ENCIRCLE THE ROOTBALL.

GENERAL GRADING AND PLANTING NOTES

- BY SUBMITTING A PROPOSAL FOR THE LANDSCAPE PLANTING SCOPE OF WORK, THE CONTRACTOR CONFIRMS THAT HE HAS READ, AND WILL COMPLY WITH, THE ASSOCIATED NOTES, SPECIFICATIONS, AND DETAILS WITH THIS PROJECT.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXISTING VEGETATION (EXCEPT WHERE NOTED TO REMAIN).
- IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING PLANS.
 - BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN $\pm 0.1'$ OF FINISH GRADE. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION.
 - CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT AND ON THE GRADING PLANS, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL.
 - THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE EXPORT OF ANY SOIL WILL BE NEEDED, TAKING INTO ACCOUNT THE ROUGH GRADE PROVIDED, THE AMOUNT OF SOIL AMENDMENTS TO BE ADDED (BASED ON A SOIL TEST PER SPECIFICATIONS), AND THE FINISH GRADES TO BE ESTABLISHED.
 - ENSURE THAT THE FINISH GRADE IN SHRUB AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 3" BELOW THE ADJACENT FINISH SURFACE, IN ORDER TO ALLOW FOR PROPER MULCH DEPTH. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 1' AWAY FROM THE WALKS.
 - ENSURE THAT THE FINISH GRADE IN TURF AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 1" BELOW THE FINISH SURFACE OF THE WALKS. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 1' AWAY FROM THE WALKS.
 - SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES AND PLANS, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, GENERAL CONTRACTOR, AND OWNER.
- ALL PLANT LOCATIONS ARE DIAGRAMMATIC. ACTUAL LOCATIONS SHALL BE VERIFIED WITH THE LANDSCAPE ARCHITECT OR DESIGNER PRIOR TO PLANTING. THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT ALL REQUIREMENTS OF THE PERMITTING AUTHORITY ARE MET (I.E., MINIMUM PLANT QUANTITIES, PLANTING METHODS, TREE PROTECTION METHODS, ETC.).
 - THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR DETERMINING PLANT QUANTITIES; PLANT QUANTITIES SHOWN ON LEGENDS AND CALLOUTS ARE FOR GENERAL INFORMATION ONLY. IN THE EVENT OF A DISCREPANCY BETWEEN THE PLAN AND THE PLANT LEGEND, THE PLANT QUANTITY AS SHOWN ON THE PLAN (FOR INDIVIDUAL SYMBOLS) OR CALLOUT (FOR GROUNDCOVER PATTERNS) SHALL TAKE PRECEDENCE.
 - NO SUBSTITUTIONS OF PLANT MATERIALS SHALL BE ALLOWED WITHOUT THE WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT. IF SOME OF THE PLANTS ARE NOT AVAILABLE, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING (VIA PROPER CHANNELS).
 - THE CONTRACTOR SHALL, AT A MINIMUM, PROVIDE REPRESENTATIVE PHOTOS OF ALL PLANTS PROPOSED FOR THE PROJECT. THE CONTRACTOR SHALL ALLOW THE LANDSCAPE ARCHITECT AND THE OWNER/OWNER'S REPRESENTATIVE TO INSPECT, AND APPROVE OR REJECT, ALL PLANTS DELIVERED TO THE JOBSITE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SUBMITTALS.
- THE CONTRACTOR SHALL MAINTAIN THE LANDSCAPE IN A HEALTHY CONDITION FOR 90 DAYS AFTER ACCEPTANCE BY THE OWNER. REFER TO SPECIFICATIONS FOR CONDITIONS OF ACCEPTANCE FOR THE START OF THE MAINTENANCE PERIOD, AND FOR FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD.
- SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.

SEE SHEET LP-1 FOR
LANDSCAPE CALCULATIONS

SUBMITTAL & REVISION RECORD

NO	DATE	DESCRIPTION
1	2/23/2023	REVISIONS PER CITY COMMENTS
2	4/3/2023	ASR RESUBMITTAL #2

Civil & Environmental Consultants, Inc.
3701 Arco Corporate Drive - Suite 400 - Charlotte, NC 28273
Ph: 980.237.0373 - Fax: 980.237.0372
www.cedinc.com

**PERFORMANCE CHARTER
SCHOOL DEVELOPMENT
RALEIGH OAK ACADEMY
3400 SUNGATE BLVD
RALEIGH, NORTH CAROLINA**

PLANTING PLAN

DATE:	APRIL 2023	DRAWN BY:	LML
DWG SCALE:	AS SHOWN	CHECKED BY:	LML/RM
PROJECT NO:	318-183		
APPROVED BY:			LML

DRAWING NO.:

LP-2

PLANTING SPECIFICATIONS

GENERAL

- A. QUALIFICATIONS OF LANDSCAPE CONTRACTOR
- ALL LANDSCAPE WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY A SINGLE FIRM SPECIALIZING IN LANDSCAPE PLANTING.
 - A LIST OF SUCCESSFULLY COMPLETED PROJECTS OF THIS TYPE, SIZE AND NATURE MAY BE REQUESTED BY THE OWNER FOR FURTHER QUALIFICATION MEASURES.
 - THE LANDSCAPE CONTRACTOR SHALL HOLD A VALID CONTRACTOR'S LICENSE ISSUED BY THE APPROPRIATE LOCAL JURISDICTION.
- B. SCOPE OF WORK
- WORK COVERED BY THESE SECTIONS INCLUDES THE FURNISHING AND PAYMENT OF ALL MATERIALS, LABOR, SERVICES, EQUIPMENT, LICENSES, TAXES AND ANY OTHER ITEMS THAT ARE NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK, SPECIFIED HEREIN AND / OR SHOWN ON THE LANDSCAPE PLANS, NOTES, AND DETAILS.
 - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK, INCLUDING ALL INSPECTIONS AND REQUIREMENTS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS.
 - THE LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITY LINES (WATER, SEWER, ELECTRICAL, TELEPHONE, GAS, CABLE, TELEVISION, ETC.) PRIOR TO THE START OF ANY WORK.

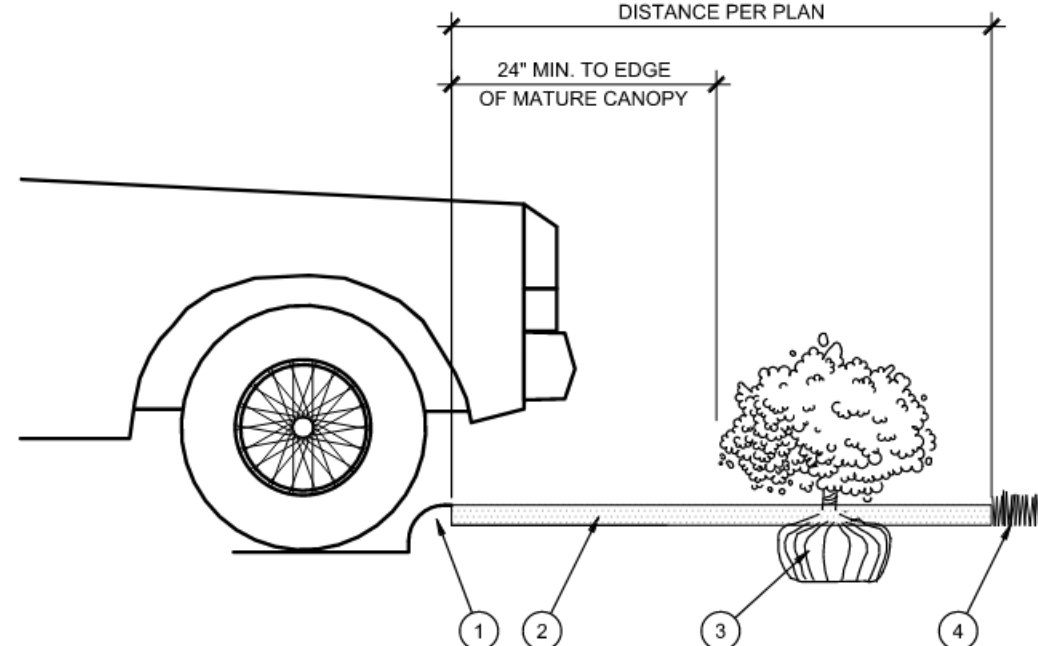
PRODUCTS

- A. ALL MANUFACTURED PRODUCTS SHALL BE NEW.
- B. CONTAINER AND BALLED-AND-BURLAPPED PLANTS:
- FURNISH NURSERY-GROWN PLANTS COMPLYING WITH ANSI Z60.1-2014. PROVIDE WELL-SHAPED, FULLY BRANCHED, HEALTHY, VIGOROUS STOCK FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT. ALL PLANTS WITHIN A SPECIES SHALL HAVE SIMILAR SIZE, AND SHALL BE OF A FORM TYPICAL FOR THE SPECIES. ALL TREES SHALL BE OBTAINED FROM SOURCES WITHIN 200 MILES OF THE PROJECT SITE, AND WITH SIMILAR CLIMATIC CONDITIONS.
 - ROOT SYSTEMS SHALL BE HEALTHY, DENSELY BRANCHED ROOT SYSTEMS, NON-POT-BOUND, FREE FROM ENCIRCLING AND/OR GIRDLING ROOTS, AND FREE FROM ANY OTHER ROOT DEFECTS (SUCH AS J-SHAPED ROOTS).
 - TREES MAY BE PLANTED FROM CONTAINERS OR BALLED-AND-BURLAPPED (B&B), UNLESS SPECIFIED ON THE PLANTING LEGEND. BARE-ROOT TREES ARE NOT ACCEPTABLE.
 - ANY PLANT DEEMED UNACCEPTABLE BY THE LANDSCAPE ARCHITECT OR OWNER SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND SHALL BE REPLACED WITH AN ACCEPTABLE PLANT OF LIKE TYPE AND SIZE AT THE CONTRACTOR'S OWN EXPENSE. ANY PLANTS APPEARING TO BE UNHEALTHY, EITHER IF DETERMINED TO STILL BE ALIVE, SHALL NOT BE ACCEPTED. THE LANDSCAPE ARCHITECT AND OWNER SHALL BE THE JUDGES AS TO THE ACCEPTABILITY OF PLANT MATERIAL.
 - ALL TREES SHALL BE STANDARD IN FORM, UNLESS OTHERWISE SPECIFIED. TREES WITH CENTRAL LEADERS WILL NOT BE ACCEPTED IF LEADER IS DAMAGED OR REMOVED. PRUNE ALL DAMAGED TWIGS AFTER PLANTING.
 - CALIPER MEASUREMENTS FOR STANDARD (SINGLE TRUNK) TREES SHALL BE AS FOLLOWS: SIX INCHES ABOVE THE ROOT FLARE FOR TREES UP TO AND INCLUDING FOUR INCHES IN CALIPER, AND TWELVE INCHES ABOVE THE ROOT FLARE FOR TREES EXCEEDING FOUR INCHES IN CALIPER.
 - MULTI-TRUNK TREES SHALL BE MEASURED BY THEIR OVERALL HEIGHT, MEASURED FROM THE TOP OF THE ROOT BALL, WHERE CALIPER MEASUREMENTS ARE USED. THE CALIPER SHALL BE CALCULATED AS ONE-HALF OF THE SUM OF THE CALIPER OF THE THREE LARGEST TRUNKS.
 - ANY TREE OR SHRUB SHOWN TO HAVE EXCESS SOIL PLACED ON TOP OF THE ROOT BALL, SO THAT THE ROOT FLARE HAS BEEN COMPLETELY COVERED, SHALL BE REJECTED.
 - SOD: PROVIDE WELL-ROOTED SOD OF THE VARIETY NOTED ON THE PLANS. SOD SHALL BE CUT FROM HEALTHY, MATURE TURF WITH SOIL THICKNESS OF 3/4" TO 1". EACH PALLET OF SOD SHALL BE ACCOMPANIED BY A CERTIFICATE FROM SUPPLIER STATING THE COMPOSITION OF THE SOD.
 - SEED: PROVIDE BLEND OF SPECIES AND VARIETIES AS NOTED ON THE PLANS, WITH MAXIMUM PERCENTAGES OF PURITY, GERMINATION, AND MINIMUM PERCENTAGE OF WEED SEED AS INDICATED ON PLANS. EACH BAG OF SEED SHALL BE ACCOMPANIED BY A TAG FROM THE SUPPLIER INDICATING THE COMPOSITION OF THE SEED.
 - TOPSOIL: SANDY TO CLAY LOAM TOPSOIL, FREE OF STONES LARGER THAN 1/2 INCH, FOREIGN MATTER, PLANTS, ROOTS, AND SEEDS.
 - COMPOST: WELL-COMPOSTED, STABLE, AND WEED-FREE ORGANIC MATTER, pH RANGE OF 5.5 TO 8; MOISTURE CONTENT 35 TO 55 PERCENT BY WEIGHT; 100 PERCENT PASSING THROUGH 3/4-INCH SIEVE; SOLUBLE SALT CONTENT OF 5 TO 10 DECIGRAMS; NOT EXCEEDING 0.5 PERCENT INERT CONTAMINANTS AND FREE OF SUBSTANCES TOXIC TO PLANTINGS. NO MANURE OR ANIMAL-BASED PRODUCTS SHALL BE USED.
 - FERTILIZER: GRANULAR FERTILIZER CONSISTING OF NITROGEN, PHOSPHORUS, POTASSIUM, AND OTHER NUTRIENTS IN PROPORTIONS, AMOUNTS, AND RELEASE RATES RECOMMENDED IN A SOIL REPORT FROM A QUALIFIED SOIL-TESTING AGENCY (SEE BELOW).
 - MULCH: SIZE AND TYPE AS INDICATED ON PLANS, FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS A TOP DRESSING OF TREES AND SHRUBS.
 - TREE STAKING AND GUYING:
 - STAKES: 6' LONG GREEN METAL T-POSTS.
 - GUY AND TIE WIRE: ASTM A 641, CLASS 1, GALVANIZED-STEEL WIRE, 2-STRAND, TWISTED, 0.106 INCH DIAMETER.
 - STRAP CHAFING GUARD: REINFORCED NYLON OR CANVAS AT LEAST 1-1/2 INCH WIDE, WITH GROMMETS TO PROTECT TREE TRUNKS FROM DAMAGE.
 - STEEL EDGING: PROFESSIONAL STEEL EDGING, 1/4 GAUGE THICK X 4 INCHES WIDE, FACTORY PAINTED DARK GREEN. ACCEPTABLE MANUFACTURERS INCLUDE: MET-MET OR APPROVED EQUAL.
 - PRE-EMERGENT HERBICIDES: ANY GRANULAR, NON-STAINING PRE-EMERGENT HERBICIDE THAT IS LABELED FOR THE SPECIFIC ORNAMENTALS OR TURF ON WHICH IT WILL BE UTILIZED. PRE-EMERGENT HERBICIDES SHALL BE APPLIED PER THE MANUFACTURER'S LABELED RATES.

METHODS

- A. SOIL PREPARATION
- BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE GRADE OF ALL LANDSCAPE AREAS ARE WITHIN +0.1" OF FINISH GRADE. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY SHOULD ANY DISCREPANCIES EXIST.
 - SOIL TESTING:
 - AFTER FINISH GRADES HAVE BEEN ESTABLISHED, CONTRACTOR SHALL HAVE SOIL SAMPLES FROM THE PROJECT'S LANDSCAPE AREAS TESTED BY AN ESTABLISHED SOIL TESTING LABORATORY. EACH SAMPLE SUBMITTED TO THE LAB SHALL CONTAIN NO LESS THAN ONE QUART OF SOIL, TAKEN FROM BETWEEN THE SOIL SURFACE AND 6" DEPTH. IF NO SAMPLE LOCATIONS ARE INDICATED ON THE PLANS, THE CONTRACTOR SHALL TAKE A MINIMUM OF THREE SAMPLES FROM VARIOUS REPRESENTATIVE LOCATIONS FOR TESTING.
 - THE CONTRACTOR SHALL HAVE THE SOIL TESTING LABORATORY PROVIDE RESULTS FOR THE FOLLOWING: SOIL TEXTURAL CLASS, GENERAL SOIL FERTILITY, pH, ORGANIC MATTER CONTENT, SALT (CEC), LIME, SODIUM ADSORPTION RATIO (SAR), AND BORON CONTENT.
 - THE CONTRACTOR SHALL ALSO SUBMIT THE PROJECT'S PLANT LIST TO THE LABORATORY ALONG WITH THE SOIL SAMPLES.
 - THE SOIL REPORT PRODUCED BY THE LABORATORY SHALL CONTAIN RECOMMENDATIONS FOR THE FOLLOWING (AS APPROPRIATE): SEPARATE SOIL PREPARATION AND BACKFILL MIX RECOMMENDATIONS FOR GENERAL ORNAMENTAL PLANTS, XERIC PLANTS, TURF, AND NATIVE SEED, AS WELL AS PRE-PLANT FERTILIZER APPLICATIONS AND RECOMMENDATIONS FOR ANY OTHER SOIL RELATED ISSUES. THE REPORT SHALL ALSO PROVIDE A FERTILIZER PROGRAM FOR THE ESTABLISHMENT PERIOD AND FOR LONG-TERM MAINTENANCE.
 - THE CONTRACTOR SHALL INSTALL SOIL AMENDMENTS AND FERTILIZERS PER THE SOILS REPORT RECOMMENDATIONS. ANY CHANGE IN COST DUE TO THE SOIL REPORT RECOMMENDATIONS, EITHER INCREASE OR DECREASE, SHALL BE SUBMITTED TO THE OWNER WITH THE REPORT.
 - FOR BIDDING PURPOSES ONLY, THE SOIL PREPARATION SHALL CONSIST OF THE FOLLOWING:
 - TURF: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 6" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING:
 - NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 S.F.
 - PREPLANT TURF FERTILIZER (10-20-10 OR SIMILAR, SLOW RELEASE, ORGANIC) - 15 LBS PER 1,000 S.F.
 - "CLAY BUSTER" OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE
 - TREES, SHRUBS, AND PERENNIALS: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 8" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING:
 - NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 S.F.
 - 12-12-12 FERTILIZER (OR SIMILAR, ORGANIC, SLOW RELEASE) - 10 LBS. PER CU. YD.
 - "CLAY BUSTER" OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE
 - IRON SULPHATE - 2 LBS. PER CU. YD.
- B. IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING PLANS.
- A. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +0.1" OF FINISH GRADE. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION.
- B. CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT AND ON THE GRADING PLANS, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL.
- C. THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE EXPORT OF ANY SOIL WILL BE NEEDED. IN ORDER TO ACCOUNT FOR THE ROUGH GRADES PROVIDED, THE AMOUNT OF SOIL AMENDMENTS TO BE ADDED (BASED ON A SOIL TEST, PER SPECIFICATIONS), AND THE FINISH GRADES TO BE ESTABLISHED.
- D. ENSURE THAT THE FINISH GRADE IN SHRUB AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 3" BELOW THE ADJACENT FINISH SURFACE, IN ORDER TO ALLOW FOR PROPER MULCH DEPTH. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
- E. ENSURE THAT THE FINISH GRADE IN TURF AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 1" BELOW THE FINISH SURFACE OF THE WALKS. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
- F. SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES AND PLANS, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, GENERAL CONTRACTOR, AND OWNER.
- G. ONCE SOIL PREPARATION IS COMPLETE, THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT THERE ARE NO DEBRIS, TRASH, OR STONES LARGER THAN 1" REMAINING IN THE TOP 6" OF SOIL.

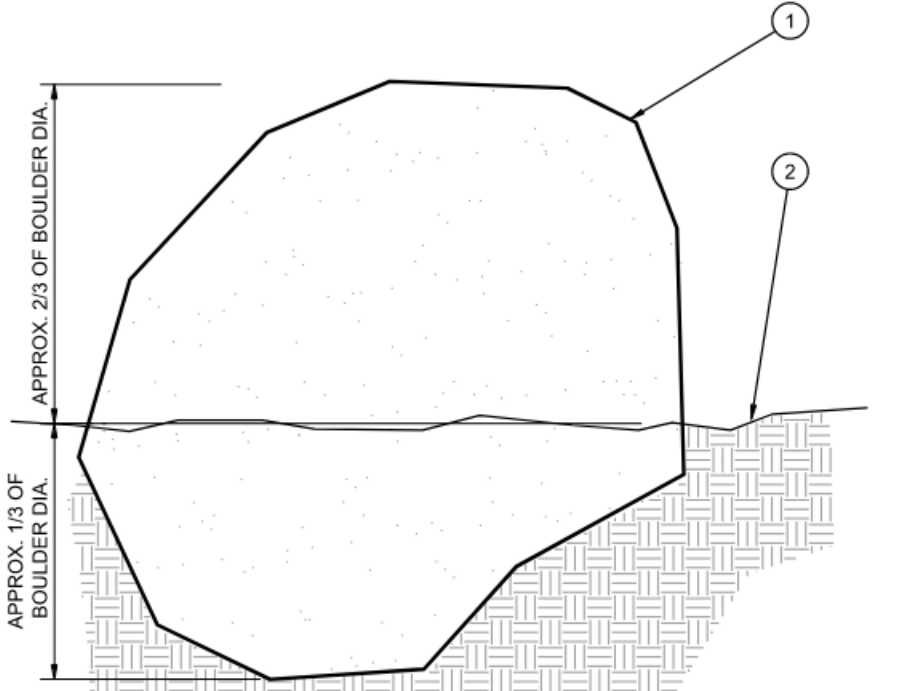
- B. SUBMITTALS
- THE CONTRACTOR SHALL PROVIDE SUBMITTALS AND SAMPLES, IF REQUIRED, TO THE LANDSCAPE ARCHITECT, AND RECEIVE APPROVAL IN WRITING FOR SUCH SUBMITTALS BEFORE WORK COMMENCES.
 - SUBMITTALS SHALL INCLUDE PHOTOS OF PLANTS WITH A RULER OR MEASURING STICK FOR SCALE, PHOTOS OR SAMPLES OF ANY REQUIRED MULCHES, AND SOIL TEST RESULTS AND PREPARATION RECOMMENDATIONS FROM THE TESTING LAB (INCLUDING COMPOST AND FERTILIZER RATES AND TYPES, AND OTHER AMENDMENTS FOR TREE/SHRUB, TURF, AND SEED AREAS AS MAY BE APPROPRIATE).
 - SUBMITTALS SHALL ALSO INCLUDE MANUFACTURER CUT SHEETS FOR PLANTING ACCESSORIES SUCH AS TREE STAKES AND TIES, EDGING, AND LANDSCAPE FABRICS (IF ANY).
 - WHERE MULTIPLE ITEMS ARE SHOWN ON A PAGE, THE CONTRACTOR SHALL CLEARLY INDICATE THE ITEM BEING CONSIDERED.
- C. GENERAL PLANTING
- REMOVE ALL NURSERY TAGS AND STAKES FROM PLANTS.
 - EXCEPT IN AREAS TO BE PLANTED WITH ORNAMENTAL GRASSES, APPLY PRE-EMERGENT HERBICIDES AT THE MANUFACTURER'S RECOMMENDED RATE.
 - TRENCHING NEAR EXISTING TREES:
 - CONTRACTOR SHALL NOT DISTURB ROOTS 1-1/2" AND LARGER IN DIAMETER WITHIN THE CRITICAL ROOT ZONE (CRZ) OF EXISTING TREES, AND SHALL EXERCISE ALL POSSIBLE CARE AND PRECAUTIONS TO AVOID INJURY TO TREE ROOTS, TRUNKS, AND BRANCHES. THE CRZ IS DEFINED AS A CIRCULAR AREA EXTENDING OUTWARD FROM THE TREE TRUNK, WITH A RADIUS EQUAL TO 1" FOR EVERY 1" OF TRUNK DIAMETER-AT-BREAST-HEIGHT (4.5' ABOVE THE AVERAGE GRADE AT THE TRUNK).
 - ALL EXCAVATION WITHIN THE CRZ SHALL BE PERFORMED USING HAND TOOLS. NO MACHINE EXCAVATION OR TRENCHING OF ANY KIND SHALL BE ALLOWED WITHIN THE CRZ.
 - ALTER ALIGNMENT OF PIPE TO AVOID TREE ROOTS 1-1/2" AND LARGER IN DIAMETER. WHERE TREE ROOTS 1-1/2" AND LARGER IN DIAMETER ARE ENCOUNTERED IN THE FIELD, TUNNEL UNDER SUCH ROOTS. WRAP EXPOSED ROOTS WITH SEVERAL LAYERS OF BURLAP AND KEEP MOIST. CLOSE ALL TRENCHES WITHIN THE CANOPY DRIP LINES WITHIN 24 HOURS.
 - ALL SEVERED ROOTS SHALL BE HAND PRUNED WITH SHARP TOOLS AND ALLOWED TO AIR-DRY. DO NOT USE ANY SORT OF SEALERS OR WOUND PAINTS.
- D. TREE PLANTING
- TREE PLANTING HOLES SHALL BE EXCAVATED TO MINIMUM WIDTH OF TWO TIMES THE WIDTH OF THE ROOTBALL, AND TO A DEPTH EQUAL TO THE DEPTH OF THE ROOTBALL LESS TWO TO FOUR INCHES. SCARIFY THE SIDES AND BOTTOM OF THE PLANTING HOLE PRIOR TO THE PLACEMENT OF THE TREE. REMOVE ANY GLAZING THAT MAY HAVE BEEN CAUSED DURING THE EXCAVATION OF THE HOLE.
 - FOR CONTAINER AND BOX TREES, TO REMOVE ANY POTENTIALLY GIRDLING ROOTS AND OTHER ROOT DEFECTS, THE CONTRACTOR SHALL SHAVE A 1" LAYER OFF OF THE SIDES AND BOTTOM OF THE ROOTBALL OF ALL TREES, JUST BEFORE PLACING INTO THE PLANTING PIT. DO NOT "TEASE" ROOTS OUT FROM THE ROOTBALL.
 - INSTALL THE TREE ON UNDISTURBED SUBGRADE SO THAT THE TOP OF THE ROOTBALL IS TWO TO FOUR INCHES ABOVE THE SURROUNDING GRADE.
 - BACKFILL THE TREE HOLE UTILIZING THE EXISTING TOPSOIL FROM ON-SITE. ROCKS LARGER THAN 1" DIA. AND ALL OTHER DEBRIS SHALL BE REMOVED FROM THE SOIL PRIOR TO THE BACKFILL. SHOULD ADDITIONAL SOIL BE REQUIRED TO ACCOMPLISH THIS TASK, USE STORED TOPSOIL FROM ON-SITE OR IMPORT ADDITIONAL TOPSOIL FROM OFF-SITE AT NO ADDITIONAL COST TO THE OWNER. IMPORTED TOPSOIL SHALL BE OF SIMILAR TEXTURAL CLASS AND COMPOSITION IN THE ON-SITE SOIL.
 - TREES SHALL NOT BE STAKED UNLESS LOCAL CONDITIONS (SUCH AS HEAVY WINDS OR SLOPES) REQUIRE STAKES TO KEEP TREES UPRIGHT. SHOULD STAKING BE REQUIRED, THE TOTAL NUMBER OF TREE STAKES (BEYOND THE MINIMUMS LISTED BELOW) WILL BE LEFT TO THE LANDSCAPE CONTRACTOR'S DISCRETION. SHOULD ANY TREES FALL OR LEAN, THE LANDSCAPE CONTRACTOR SHALL STRAIGHTEN THE TREE, OR REPLACE IT SHOULD IT BECOME DAMAGED. TREE STAKING SHALL ADHERE TO THE FOLLOWING GUIDELINES:
 - 1"-2" TREES: TWO STAKES PER TREE
 - 2 1/2"-4" TREES: THREE STAKES PER TREE
 - TREES OVER 4" CALIPER: GUY AS NEEDED
 - MULTI-TRUNK TREES: THREE STAKES PER TREE MINIMUM. QUANTITY AND POSITIONS AS NEEDED TO STABILIZE THE TREE
 - UPON COMPLETION OF PLANTING, CONSTRUCT AN EARTH WATERING BASIN AROUND THE TREE. COVER THE INTERIOR OF THE TREE RING WITH MULCH (TYPE AND DEPTH PER PLANS).
- E. SHRUB, PERENNIAL, AND GROUNDCOVER PLANTING
- DIG THE PLANTING HOLES TWICE AS WIDE AND 2" LESS DEEP THAN EACH PLANT'S ROOTBALL. INSTALL THE PLANT IN THE HOLE. BACKFILL AROUND THE PLANT WITH SOIL, AMENDED PER SOIL TEST RECOMMENDATIONS.
 - WHEN PLANTING IS COMPLETE, INSTALL MULCH (TYPE AND DEPTH PER PLANS) OVER ALL PLANTING BEDS, COVERING THE ENTIRE PLANTING AREA.
- F. SODDING
- SOD VARIETY TO BE AS SPECIFIED ON THE LANDSCAPE PLAN.
 - LAY SOD WITHIN 24 HOURS FROM THE TIME OF STRIPPING. DO NOT LAY IF THE GROUND IS FROZEN.
 - LAY THE SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD STRIPS - DO NOT OVERLAP. STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES.
 - ROLL THE SOD TO ENSURE GOOD CONTACT OF THE SOD'S ROOT SYSTEM WITH THE SOIL UNDERNEATH.
 - WATER THE SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING TO OBTAIN AT LEAST SIX INCHES OF PENETRATION INTO THE SOIL BELOW THE SOD.
- G. HYDROMULCHING
- TURF HYDROMULCH MIX (PER 1,000 SF) SHALL BE AS FOLLOWS:
 - WINTER (MAY/OCTOBER 1 - MARCH 31)
 - 50# CELLULOSE FIBER MULCH
 - 2# UNHULLED BERMUDA SEED
 - 2# ANNUAL RYE SEED
 - 15# 15-15 WATER SOLUBLE FERTILIZER
 - SUMMER MIX (APRIL 1 - SEPTEMBER 30)
 - 50# CELLULOSE FIBER MULCH
 - 2# HULLED BERMUDA SEED
 - 15# 15-15 WATER SOLUBLE FERTILIZER
 - SEED HYDROMULCH MIX (PER 1,000 SF) SHALL BE AS FOLLOWS:
 - GENERAL:
 - 50# CELLULOSE FIBER MULCH
 - 15# 15-15 WATER SOLUBLE FERTILIZER
 - SEED RATE PER LEGEND
- H. MULCH
- INSTALL MULCH TOPDRESSING, TYPE AND DEPTH PER MULCH NOTE, IN ALL PLANTING AREAS AND TREE RINGS.
 - DO NOT INSTALL MULCH WITHIN 6" OF TREE ROOT FLARE AND WITHIN 24" OF HABITABLE STRUCTURES, EXCEPT AS MAY BE NOTED ON THESE PLANS. MULCH COVER WITHIN 6" OF CONCRETE WALLS AND CURBS SHALL NOT PROTRUDE ABOVE THE FINISH SURFACE OF THE WALKS AND CURBS. MULCH COVER WITHIN 12" OF WALLS SHALL BE AT LEAST 3" LOWER THAN THE TOP OF WALL.
- I. CLEAN UP
- DURING LANDSCAPE PREPARATION AND PLANTING, KEEP ALL PAVEMENT CLEAN AND ALL WORK AREAS IN A NEAT, ORDERLY CONDITION.
 - DISPOSED LEGALLY OF ALL EXCAVATED MATERIALS OFF THE PROJECT SITE.
- J. INSPECTION AND ACCEPTANCE
- UPON COMPLETION OF THE WORK, THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE SITE CLEAN, FREE OF DEBRIS AND TRASH, AND SUITABLE FOR USE AS INTENDED. THE LANDSCAPE CONTRACTOR SHALL THEN REQUEST AN INSPECTION BY THE OWNER TO DETERMINE FINAL ACCEPTABILITY.
 - WHEN THE INSPECTED PLANTING WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, THE LANDSCAPE CONTRACTOR SHALL REPLACE AND/OR REPAIR THE REJECTED WORK TO THE OWNER'S SATISFACTION WITHIN 24 HOURS.
 - THE LANDSCAPE MAINTENANCE PERIOD WILL NOT COMMENCE UNTIL THE LANDSCAPE WORK HAS BEEN RE-INSPECTED BY THE OWNER AND FOUND TO BE ACCEPTABLE. AT THAT TIME, A WRITTEN NOTICE OF FINAL ACCEPTANCE WILL BE ISSUED BY THE OWNER, AND THE MAINTENANCE AND GUARANTEE PERIODS WILL COMMENCE.
- K. LANDSCAPE MAINTENANCE
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL WORK SHOWN ON THESE PLANS FOR 90 DAYS BEYOND FINAL ACCEPTANCE OF ALL LANDSCAPE WORK BY THE OWNER. LANDSCAPE MAINTENANCE SHALL INCLUDE WEEKLY SITE VISITS FOR THE FOLLOWING ACTIONS (AS APPROPRIATE): PROPER PRUNING, RESTAKING OF TREES, RESETTling OF PLANTS THAT HAVE SETTLED, MOWING AND AERATION OF LAWNS, WEEDING, RESEEDING AREAS WHICH HAVE NOT GERMINATED WELL, TREATING FOR INSECTS AND DISEASES, REPLACEMENT OF MULCH, REMOVAL OF LITTER, REPAIRS TO THE IRRIGATION SYSTEM DUE TO FAULTY PARTS AND/OR WORKMANSHIP, AND THE APPROPRIATE WATERING OF ALL PLANTINGS. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM IN PROPER WORKING ORDER, WITH SCHEDULING ADJUSTMENTS BY SEASON TO MAXIMIZE WATER CONSERVATION.
 - SHOULD SEEDED AND/OR SODDED AREAS NOT BE COVERED BY AN AUTOMATIC IRRIGATION SYSTEM, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THESE AREAS AND OBTAINING A FULL, HEALTHY STAND OF PLANTS AT NO ADDITIONAL COST TO THE OWNER.
 - TO ACHIEVE FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD, ALL OF THE FOLLOWING CONDITIONS MUST OCCUR:
 - THE LANDSCAPE SHALL SHOW ACTIVE, HEALTHY GROWTH (WITH EXCEPTIONS MADE FOR SEASONAL DORMANCY). ALL PLANTS NOT MEETING THIS CONDITION SHALL BE REJECTED AND REPLACED BY HEALTHY PLANT MATERIAL PRIOR TO FINAL ACCEPTANCE.
 - ALL HARDSCAPE SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE.
 - SODDED AREAS MUST BE ACTIVELY GROWING AND MUST REACH A MINIMUM HEIGHT OF 1/12 INCHES BEFORE FIRST MOWING. HYDROMULCHED AREAS SHALL SHOW ACTIVE, HEALTHY GROWTH. BARE AREAS LARGER THAN TWELVE SQUARE INCHES SHALL BE RESEEDD OR RESEEDED (AS APPROPRIATE) PRIOR TO FINAL ACCEPTANCE. ALL SODDED TURF SHALL BE NEATLY MOWED.
- L. WARRANTY PERIOD, PLANT GUARANTEE AND REPLACEMENTS
- THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL TREES, SHRUBS, PERENNIALS, SOD, SEEDED/HYDROMULCHED AREAS, AND IRRIGATION SYSTEMS FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE OWNER'S FINAL ACCEPTANCE (90 DAYS FOR ANNUAL PLANTS). THE CONTRACTOR SHALL REPLACE AT HIS OWN EXPENSE AND TO THE SATISFACTION OF THE OWNER ANY PLANTS WHICH DIE IN THAT TIME, OR REPAIR ANY PORTIONS OF THE IRRIGATION SYSTEM WHICH OPERATE IMPROPERLY.
 - AFTER THE INITIAL MAINTENANCE PERIOD AND DURING THE GUARANTEE PERIOD, THE LANDSCAPE CONTRACTOR SHALL ONLY BE RESPONSIBLE FOR REPLACEMENT WHEN PLANT DEATH CANNOT BE ATTRIBUTED DIRECTLY TO OVERWATERING OR OTHER DAMAGE BY HUMAN ACTIONS.
- M. PROVIDE A MINIMUM OF (2) COPIES OF RECORD DRAWINGS TO THE OWNER UPON COMPLETION OF WORK. A RECORD DRAWING IS A RECORD OF ALL CHANGES THAT OCCURRED IN THE FIELD AND THAT ARE DOCUMENTED THROUGH CHANGE ORDERS, ADDENDA, OR CONTRACTOR/CONSULTANT DRAWING MARKUPS.



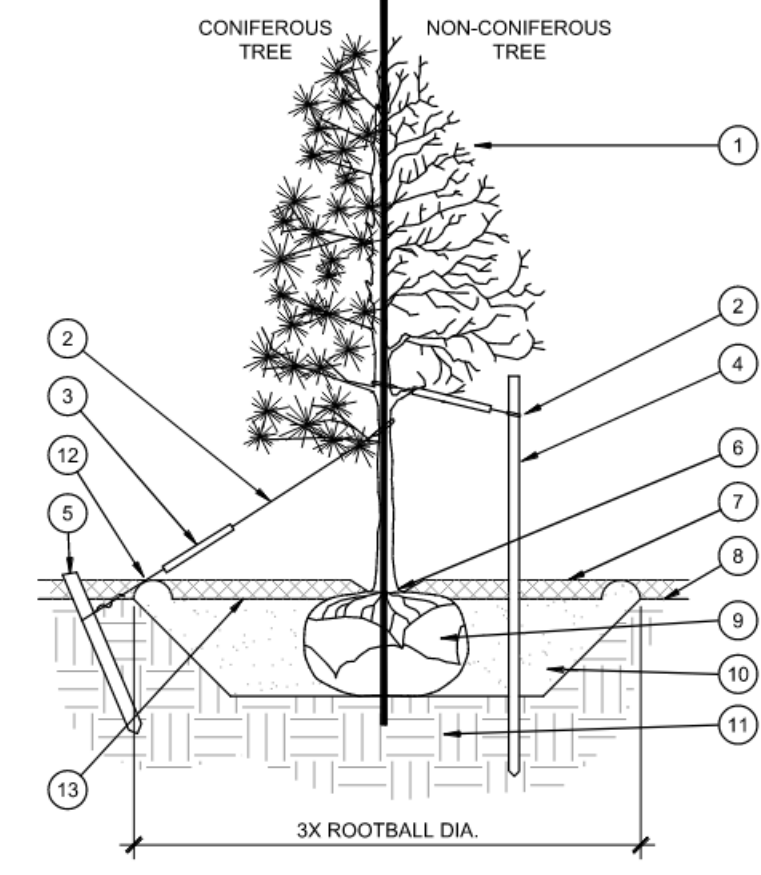
D PLANTING AT PARKING AREA
SCALE: NOT TO SCALE

OPEN LANDSCAPE
PARKWAY OR ISLAND
TO 10'

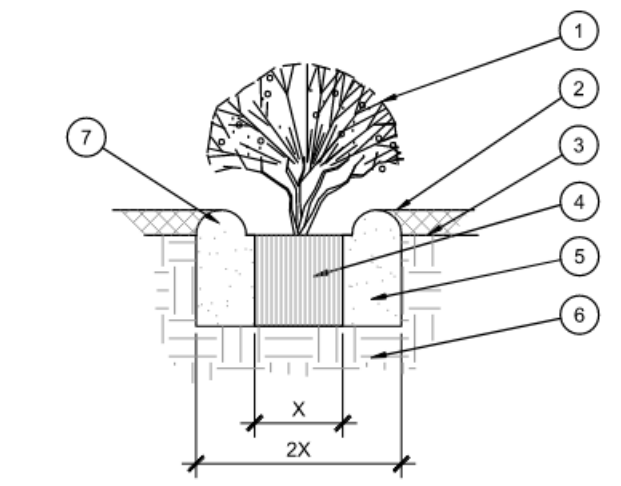
E ROOT BARRIER - PLAN VIEW
SCALE: NOT TO SCALE



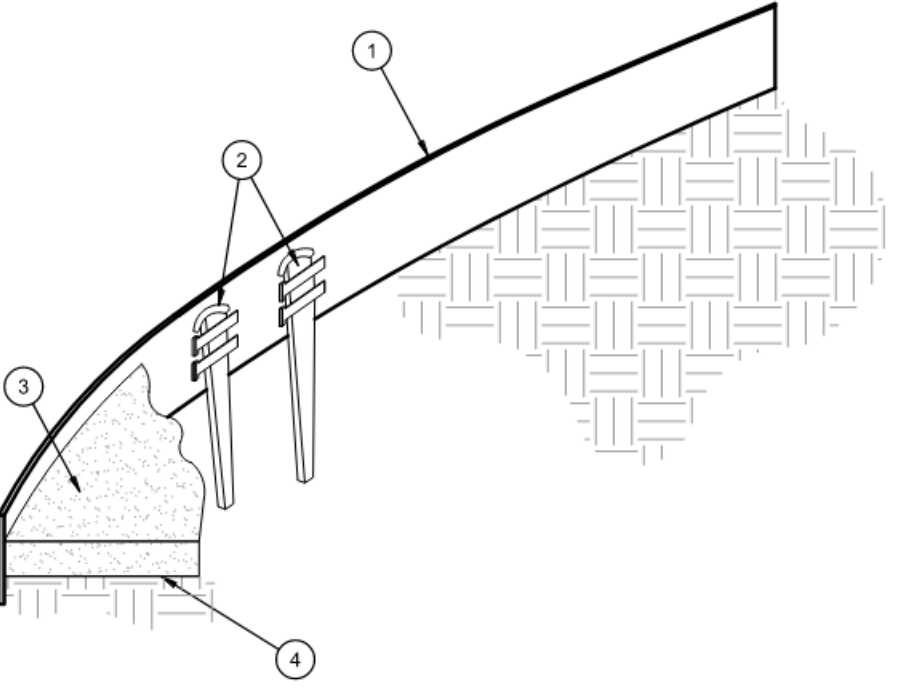
F BOULDER
SCALE: NTS



A TREE PLANTING
SCALE: NOT TO SCALE



B SHRUB AND PERENNIAL PLANTING
SCALE: NTS



C STEEL EDGING
SCALE: NOT TO SCALE

8

7

6

5

4

3

2

1

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4/23/2023	2	

REVISIONS

PECI CITY COMMENTS

AMR RESUBMITTAL #2

NO

DATE

REVISIONS

DESCRIPTION

1	2/23/2023	1	AMR RESUBMITTAL #2
2	4		