SITE DEVELOPMENT PLANS

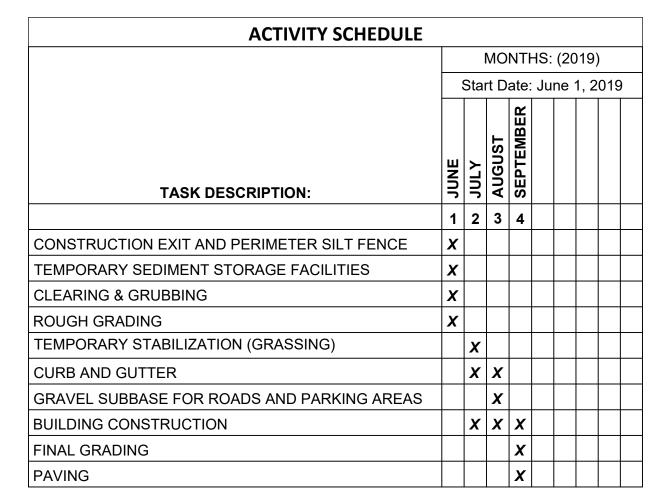


FOR

CHICK-FIL-A, INC. 62 INDOOR SEATS PROVIDED 2187 GREENLAND WAY, KNOXVILLE, TN 37932

Revision 8-30-2023⁹-B-23-TOB / 9-C-23-DP

AUGUST 28, 2023



CONSTRUCTION NOTES:

ANTICIPATED START PROJECT DATE XXXX

ANTICIPATED COMPLETE PROJECT DATE XXX 1. INSTALL EROSION CONTROL FENCE

2. DEMOLITION

3. CONSTRUCT STORM SYSTEM

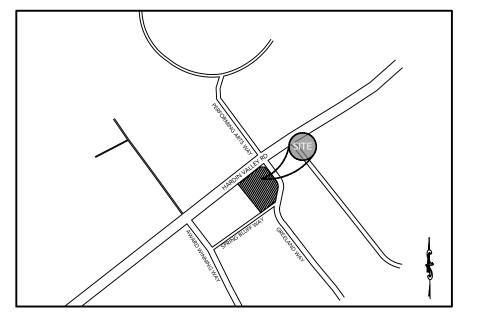
4. CONSTRUCT WATER AND SEWER SYSTEM 5. FINE GRADE SITE

6. INSTALL GRASSING AND MULCH (TEMPORARY VEGETATION) 7. CONSTRUCT BUILDING

8. INSTALL CURB AND GUTTER

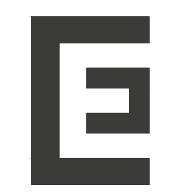
PAVE SITE 10. FINAL STABILIZATION (PERMANENT VEGETATION), CLEAN STORM

11. MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES



LOCATION MAP SCALE: N.T.S.

DESIGN BY:



CIVIL ENGINEER CARTER ENGINEERING CONSULTANTS, INC. 3651 MARS HILL RD. STE. 3600 WATKINSVILLE, GA 30677 CONTACT: 770.725.1200 MARK CAMPBELL, P.E. MARK@CARTERENGINEERING.COM

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
C-1.0	COVER
C-1.1	GENERAL NOTES
C-1.2	SURVEY
C-1.3	SURVEY
C-1.4	DEMOLITION PLAN
C-2.0	SITE PLAN
C-3.0	UTILITY PLAN
C-4.0	GRADING & DRAINAGE PLAN
C-4.1	PIPE PROFILES
C-4.2	STORMWATER DETAILS
C-4.3	CULTEC DETAILS
C-5.0	E&SC PLAN PHASE I
C-5.1	E&SC PLAN PHASE II
C-5.2	E&SC PLAN PHASE III
C-5.3	EROSION DETAILS
C-6.0	STANDARD DETAILS I
C-6.1	STANDARD DETAILS II
C-6.2	STANDARD DETAILS III
E-102	OUTDOOR LIGHTING PLAN
L-100	LANDSCAPE PLAN
L-101	LANDSCAPE DETAILS
L-102	LANDSCAPE MAINTENANCE SPECIFICATIONS

CAUTION
THE UTILITIES SHOWN HEREON ARE FOR THE CONTRACTORS CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE SOLO RESPONSIBILITY OF THE CONTRACTOR.

COPYRIGHT NOTICE © 2022 CARTER ENGINEERING **ALL RIGHTS RESERVED**

HIS DRAWING AND ALL THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF CARTER ENGINEERING CONSULTANTS NC. AND IS TO BE RETAINED IN CONFIDENCE. WITHOUT WRITTEN PERMISSION OF AN OFFICER OF CARTER ENGINEERING ONSULTANTS, INC. THIS PLAN IS NOT TO BE DUPLICATED, SENT, SHOWN OR USED FOR ANY OTHER PURPOSE THAN TO DISCLOSE TO THE RECIPIENT A DESIGN CONCEPT SPECIFIC TO THE PROJECT SHOWN HEREIN. THIS PLAN SET, INCLUDING ALL IARD COPIES AND ELECTRONIC FILES, IS TO BE RETURNED TO CARTER ENGINEERING CONSULTANTS, INC. UPON DEMAND

GENERAL PLAN SET NOTES

- . THE ENGINEER IS NOT RESPONSIBLE FOR COST CHANGES DURING CONCEPTUAL, PRELIMINARY, OR DESIGN PHASE.
- BIDS & QUOTES SHALL BE BASED ON PLAN SETS LABELED "ISSUE FOR BID" ON THE REVISION BLOCK. BIDS & QUOTES SHALL BE REVISED BASED ON PLANS LABELED "ISSUE FOR CONSTRUCTION" ON THE REVISION BLOCK. . IF DISCREPANCIES ARE ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE DEVIATION FROM THIS PLAN SET, THE ENGINEER SHOULD BE NOTIFIED FOR UPDATED PLANS AND/ OR FIELD CHANGES.
- THE ENGINEER IS NOT RESPONSIBLE FOR DESIGN OR CONSTRUCTION COST ASSOCIATED WITH FIELD CHANGES OR DEVIATION FROM THIS PLAN SET DUE TO UNFORESEEN SITE CONDITIONS, CLIENT MODIFICATION REQUEST AND/ OR
- . THE ENGINEER IS NOT RESPONSIBLE FOR THE EFFICACY OF FIELD CHANGES OR DEVIATION FROM THIS PLAN SET IN ANYWAY, UNLESS CHANGES ARE DIRECTED BY THE ENGINEER.

DEVELOPMENT DATA:

-OWNER: CHICK-FIL-A, INC.

-OWNER ADDRESS: 5200 BUFFINGTON RD., ATLANTA GA 30349 -DEVELOPER: CHICK-FIL-A, INC.

-DEVELOPER ADDRESS: 5200 BUFFINGTON RD, ATLANTA GA 30349

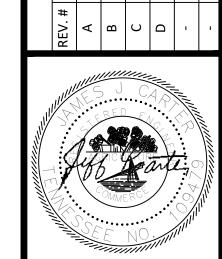
-SITE ADDRESS: 2187 GREENLAND WAY, KNOXVILLE, TN 37932

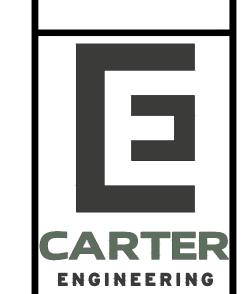
-ALL IMPROVEMENTS TO CONFORM WITH THE CITY OF CHARLOTTE, NC AND THE MECKLENBURG COUNTY CONSTRUCTION STANDARDS AND SPECIFICATIONS, LATEST EDITION.

-ENGINEER: CARTER ENGINEERING CONSULTANTS, Inc.

-ZONING: PC

-SITE ACREAGE: 1.75 - DISTURBED AREA: 1.75





CARTER ENGINEERING 1010 COMMERCE DRIVE,

BOGART, GA 30622 P: 770.725.1200

F: 770.725.1204

www.carterengineering.com HARDIN VALLEY FSU STORE # 05442

9-B-23-TOB / 9-C-23-DP

2187 GREENLAND WAY, KNOXVILLE, TN 37932

SHEET TITLE

COVER

REVISION 4-2023

Job No. : 23043CFA . 05442

08/28/23

- NOTIFY THE INSPECTOR OF THE LOCAL GOVERNING AUTHORITY 24 HOURS BEFORE EVERY PHASE OF
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR, AT HIS EXPENSE, UNLESS ALREADY OBTAINED BY THE OWNER.
- THE CONTRACTOR SHALL COORDINATE LOCATION AND INSTALLATION OF ALL UNDERGROUND UTILITIES
- AND APPURTENANCES TO MINIMIZE DISTURBING CURBING, PAVING, AND ALL OTHER UTILITIES. THE EXISTING UTILITIES SHOWN ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE DRAWINGS. THE UTILITIES SHOWN ARE THOSE LOCATED BY THE

SURVEYOR OF RECORD. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATION OF THE

UTILITIES SHOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL

UTILITIES WITHIN THE LIMITS OF WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR

- SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR CONSENT OF THE ENGINEER AND THE MUNICIPALITY MAY CAUSE FOR THE WORK TO BE UNACCEPTABLE.
- ALL MATERIALS SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE
- 8. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES AROUND THE WORK

AND SHALL PROVIDE PROTECTION AGAINST WATER DAMAGE AND SOIL EROSION.

- ALL WORK SHALL BE PERFORMED IN A FINISHED AND WORKMANLIKE MANNER TO THE ENTIRE SATISFACTION OF THE OWNER, AND IN ACCORDANCE WITH THE BEST RECOGNIZED TRADE PRACTICES.
- . THE CONTRACTOR SHALL PROVIDE SHEETING AND SHORING FOR ALL TRENCH CONSTRUCTION IN ACCORDANCE WITH OSHA GUIDELINES.
- 11. ALL PIPE LENGTHS SHOWN ARE TO THE CENTERLINE OF THE STRUCTURES UNLESS SPECIFICALLY NOTED.
- 12. PIPES (STORM AND SANITARY SEWER) SHALL BE LAID ON SMOOTH, CONTINUOUS GRADES WITH NO VISIBLE BENDS AT THE JOINTS BEDDING REQUIREMENTS SPECIFIED HEREIN ARE TO BE CONSIDERED AS MINIMUM REQUIRED FOR
- RELATIVELY DRY STABLE EARTH CONDITIONS. ADDITIONAL BEDDING SHALL BE REQUIRED FOR ROCK TRENCHES TO PROVIDE SUCH ADDITIONAL BEDDING AS REQUIRED TO PROPERLY CONSTRUCT WORK.
- 14. ALL STORM DRAINAGE INLET STRUCTURES SHALL HAVE METAL RING AND COVER FOR ACCESS. 15. ALL ANGLES SHOWN ARE 90 DEGREES UNLESS SHOWN OTHERWISE.
- 16. ALL GRADES SHOWN ARE FINISHED GRADES. CONTRACTOR SHALL VERIFY DIMENSIONS, GRADES, AND EXISTING ELEVATIONS PRIOR TO CONSTRUCTION.
- 17. CONCRETE CURBS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS SHOWN ON PLANS. MATERIALS, EQUIPMENT, METHODS OF CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO STATE D.O.T. STANDARD SPECIFICATIONS.
- 18. ALL CONCRETE SHALL HAVE 3000 PSI COMPRESSIVE STRENGTH AFTER 28 DAYS, WITH A MAXIMUM SLUMP OF FOUR (4) INCHES, UNLESS SPECIFIED OTHERWISE.
- 19. ALL EXPOSED CONCRETE SHALL HAVE A FINE HAIR BROOMED FINISH.
-). PARKING AND DRIVEWAY BASE COURSE AND ASPHALTIC CONCRETE SURFACE AND PRIME MATERIALS, EQUIPMENT, METHODS FOR CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO STATE D.O.T.
- 21. CONTRACTOR TO FIELD VERIFY ALL STORM, SANITARY, WATER AND OTHER UTILITIES LOCATIONS AND INVERTS PRIOR TO INSTALLATION OF ANY UTILITIES. NOTIFY ENGINEER PRIOR TO PROCEEDING WITH ANY WORK IF DISCREPANCIES FOUND.
- 22. THE USE OF CONCRETE THRUST BLOCKS FOR THE INSTALLATION OF WATER MAINS IS STRICTLY PROHIBITED. PRESSURE PIPE FITTINGS AND OTHER ITEMS REQUIRING RESTRAINT SHALL BE RESTRAINED USING METHODS SPECIFIED AND APPROVED BY COUNTY/CITY TECHNICAL STANDARDS, SPECIFICATIONS AND REGULATIONS. THE PREFERRED METHOD OF RESTRAINT IS THROUGH THE USE OF "MEGA-LUGS" OR
- 23. ALL DIMENSIONS ARE MEASURED TO THE BACK OF CURB UNLESS OTHERWISE NOTED.

EARTHWORK SPECIFICATIONS

CLEARING AND GRUBBING

- CLEARING AND GRUBBING SHALL CONSIST OF CLEARING THE SURFACE OF THE GROUND OF THE DESIGNATED AREAS OF ALL TREES, LOGS, SNAGS, BRUSH, UNDERGROWTH, HEAVY GROWTH OF GRASS WEEDS, FENCE STRUCTURES, DEBRIS AND RUBBISH OF ANY NATURE, NATURAL OBSTRUCTIONS SUCH AS OBJECTIONABLE SOIL MATERIAL UNSATISFACTORY FOR FOUNDATIONS. IT SHALL ALSO CONSIST OF GRUBBING OF STUMPS, ROOTS FOUNDATIONS AND DISPOSAL OF ALL SUCH MATERIAL. ALL HOLES REMAINING AFTER THE GRUBBING OPERATION IN EMBANKMENT AREAS AND IN EXCAVATION AREAS LESS THAN TWO (2) FEET IN DEPTH, SHALL HAVE SIDES BROKEN DOWN AND LEVELED IF NECESSARY TO FLATTEN OUT SLOPES. REFILLED WITH ACCEPTABLE MATERIAL THAT IS PROPERLY COMPACTED IN LAYERS BY TAMPERS, ROLLERS OR CONSTRUCTION EQUIPMENT.
- BURNING ON SITE IS NOT PERMITTED WITHOUT WRITTEN APPROVAL OF THE LOCAL GOVERNING AUTHORITIES HAVING JURISDICTION.

EXISTING TREES OUTSIDE OF GRADING LIMITS LINE:

TREES AND VEGETATION TO BE SAVED SHALL BE PROTECTED FROM DAMAGE BY A FENCE BARRICADE PRIOR TO, OR DURING, CLEARING OPERATIONS. TREES TO BE REMOVED FROM THE AREA OUTSIDE THE LIMITS OF GRADING OR FROM SPECIFICALLY DESIGNATED AREAS WITHIN THE CONSTRUCTION AREAS. IF. IN THE OPINION OF THE ENGINEER, A CONTRACTOR DAMAGES A TREE NOT TO BE REMOVED, THE CONTRACTOR WILL BE FINED A PREDETERMINED AMOUNT FOR EACH DAMAGED TREE. THE CONTRACT SHALL ALSO BE RESPONSIBLE FOR ALL COSTS ASSOCIATED IN REMOVING THE DAMAGED TREE FROM THE

- ALL VEGETATION SUCH AS ROOTS, BRUSH, HEAVY GROWTH OF GRASS, TOPSOIL, ALL DECAYED VEGETABLE MATTER, RUBBISH, AND OTHER UNSUITABLE MATERIAL WITHIN THE AREA UPON WHICH FILL IS TO BE PLACED SHALL BE STRIPPED OR BE OTHERWISE REMOVED BEFORE THE FILL OPERATION IS STARTED. IN NO CASE SHALL UNSUITABLE MATERIAL REMAIN IN OR UNDER THE FILL AREA. SLOPED GROUND SURFACE STEEPER THAN ON VERTICAL TO FOUR HORIZONTAL. ON WHICH FILL IS TO BE PLACED, SHALL BE PLACED, STEPPED OR BENCHED IN SUCH A MANNER THAT THE FILL TO BE PLACED SHALL BE 97 PERCENT OF THE MAXIMUM LABORATORY DRY DENSITY ACCORDING TO STANDARD PROCTOR (AASHTO T99, ASTM D-698), MOISTURE CONTENT SHALL BE WITHIN 3 PERCENT OF THE OPTIMUM MOISTURE CONTENT. PROOF ROLL THE AREAS TO BE FILLED OR ON WHICH STRUCTURES ARE TO BE PLACED. A LOADED DUMP TRUCK OR OTHER RUBBER TIRED EQUIPMENT SHALL BE USED FOR PROOF ROLLING. OVERLAPPING PASSES OF A VEHICLES SHOULD BE MADE ACROSS THE SITE IN ONE DIRECTION AND THEN PERPENDICULAR TO THE ORIGINAL DIRECTION OF ROLLING.
- 2. ANY YIELDING, PUMPING OR SOFT AREAS SHOULD BE CUT OUT AND REPLACED WITH FILL COMPACTED
- THE PROPOSED FILL SHOULD BE LIMITED TO SOILS CLASSIFIED IN ACCORDANCE WITH ASTM D-2487 AS GM, GC, SW, SM, SC, ML AND CL. SOIL CLASSIFIED AS PT, OH, OL, CH AND MH ARE NOT SATISFACTORY AS COMPACTED FILL
- 4. FILLS AND EMBANKMENTS SHALL BE CONSTRUCTED AT THE LACTATIONS AND TO THE LINES AND GRADES INDICATED ON CONSTRUCTION PLANS. THE SLOPE SHALL NOT EXCEED 2 FOOT HORIZONTAL TO 1 FOOT VERTICAL (3 FOOT HORIZONTAL TO 1 FOOT VERTICAL IN THE PUBLIC RIGHT OF WAY). THE COMPLETED FILL SHALL CORRESPOND TO THE SHAPE OF THE TYPICAL SECTIONS INDICATED ON THE CONSTRUCTION PLANS. MATERIAL REMOVED FROM THE EXCAVATION SHALL BE USED IN FORMING THE FILL. FILL MATERIAL SHALL BE REASONABLY FREE FROM ROOTS, OTHER ORGANIC MATERIAL, TRASH AND STONES HAVING MAXIMUM DIMENSIONS GREATER THAN 6 INCHES (4 INCHES IN TRENCHES FOR UTILITIES). NO FROZEN MATERIAL WILL BE PERMITTED IN THE FILL. STONES HAVING A MAXIMUM DIMENSION OF 4 INCHES WILL NOT BE PERMITTED IN THE UPPER SIX INCHES OF FILL OR EMBANKMENT OR UTILITY TRENCH. THE MATERIAL SHALL BE PLACED IN SUCCESSIVE HORIZONTAL LAYERS NOT MORE THAN 8 INCHES THICK. UNLESS OTHERWISE NOTED. IN LOOSE DEPTH FOR THE WIDTH OF THE CROSS-SECTION AND SHALL BE COMPACTED TO AT LEAST 97 PERCENT OF THE MAXIMUM LABORATORY DRY DENSITY ACCORDING TO STANDARD PROCTOR (ASTM D-698, AASHTO T-99). MOISTURE SHALL BE WITHIN 3 PERCENT OF THE OPTIMUM MOISTURE CONTENT. THE TOP 12 INCHES OF THE PAVING, PARKING AND/OR ROADWAY SUB-GRADE SHALL BE COMPACTED TO 97 PERCENT OF THE MAXIMUM DRY DENSITY (STANDARD PROCTOR). EACH LIFT SHALL BE ROLLED WITH A VIBRATORY ROLLER, A SHEEPSFOOT ROLLER, OR A LOADED RUBBER TIRED DUMP TRUCK, SCRAPER OR LOADER. IF THE SOIL IS TOO DRY, A WATER TRUCK WITH SPREADER BAR OR SPRAY HOSE SHALL BE USED TO BRING THE SOIL TO THE PROPER MOISTURE RANGE. THE WATER SHALL BE THOROUGHLY AND PROPERLY MIXED WITH THE SOIL PRIOR TO
- STORM DRAIN PIPES SHALL BE PLACED ON FIRM BOTTOM AND HAND TAMPED TO SAFE UP THE PIPE. A CUSHION OF SOIL SHALL BE TAMPED ABOVE THE CROWN OF THE PIPE IN ACCORDANCE WITH THE PIPE MANUFACTURER'S RECOMMENDATIONS SO THAT THE HEAVIER COMPACTION EQUIPMENT CAN THEN BE USED TO BRING THE SOIL TO A DENSITY AS DESCRIBED ABOVE FOR FILL AREAS.
- IF SOILS INVESTIGATION REPORT IS PROVIDED, THEN FOLLOW THE RECOMMENDATIONS OF THE REPORT IF THEY EXCEED THE RECOMMENDATIONS OF THESE SPECIFICATIONS. TOPSOIL:
- UNLESS OTHERWISE SPECIFIED, AREAS DESIGNATED FOR GRADING OPERATIONS THAT CONTAIN A BLANKET OF TOPSOIL SHALL BE STRIPPED AND PLACED IN CONVENIENT STOCKPILES FOR LATER USE AS A TOPSOIL BLANKET ON THE NEW GRADED AREAS SPECIFIED HEREIN, OR AS DESIGNATED, TOPSOIL SHALL BE STRIPPED FROM ALL AREAS DESIGNATED TO RECEIVE FILL. THE STRIPPING OF MATERIAL FOR TOPSOIL SHALL BE CAREFULLY DETERMINED AND ONLY THE QUANTITY REQUIRED SHALL BE STOCKPILED. MATERIAL STOCKPILED SHALL BE STORED IN A SATISFACTORY MANNER TO AFFORD PROPER DRAINAGE. WHEN GRADING OPERATIONS PERMIT, INSTEAD OF STOCKPILING, THE TOPSOIL SHALL BE HAULED AND SPREAD DIRECTLY ON THE AREAS DESIGNATED TO RECEIVE TOPSOIL.

ROCK EXCAVATION:

1. IF ROCK IS ENCOUNTERED, CLEAR AWAY EARTH TO EXPOSE MATERIAL. NOTIFY OWNER AND RECEIVE WRITTEN INSTRUCTIONS PRIOR TO EXCAVATION REMOVE ROCK TO A DEPTH OF 6 INCHES RELOW AND 8 INCHES ON EACH SIDE OF PIPES IN TRENCHES. A MEASUREMENT OF EXTENT OF ROCK TO BE REMOVED SHALL BE MADE. ROCK EXCAVATION SHALL BE PAID FOR IN ACCORDANCE WITH AGREEMENT WITH THE

DEMOLITION NOTES

EXISTING STRUCTURES & FACILITIES:

- 1. THE LOCATIONS OF ALL EXISTING FACILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER / LANDSCAPE ARCHITECT ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ON-SITE LOCATIONS OF EXISTING UTILITIES.
- 2. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, SUPERVISION AND EQUIPMENT REQUIRED FOR THE ORDERLY DEMOLITION AND REMOVAL OF EXISTING STRUCTURES, PAVEMENT, AND UTILITIES AS SHOWN ON THE DRAWINGS AND DESCRIBED HEREIN.
- 3. THE CONTRACTOR IS REQUIRED TO FAMILIARIZE HIM/HERSELF WITH THE STRUCTURES TO BE DEMOLISHED, A BRIEF DESCRIPTION OF THE STRUCTURES PROPOSED TO BE INSTALLED AND DEMOLISHED ARE INCLUDED FOR THE CONTRACTOR'S CONVENIENCE ONLY.
- 4. THE FOLLOWING LIST OF STRUCTURES REQUIRING DEMOLITION IS INCLUDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE DRAWINGS INDICATE THE SCOPE OF THE DEMOLITION WHERE DEMOLITION IS REQUIRED (SEE CORRESPONDING PLANS):
- 4.1. DEMOLITION AND REMOVAL OF EXISTING ON-SITE ASPHALT, CONCRETE, PAVING, AND CURBING TO LIMITS OF DISTURBANCE/DEMOLITION AS SHOWN ON THE CORRESPONDING PLANS. CONTRACTOR TO VERIFY AND COORDINATE ANY DISCREPANCIES AND/OR CONCERNS WITH ENGINEER/LANDSCAPE ARCHITECT ACCORDINGLY.
- 5. ALL ON-SITE UNDERGROUND STRUCTURES AND PIPING MUST BE COMPLETELY REMOVED AND OVER-EXCAVATED BY A MINIMUM OF 12" BENEATH THE STRUCTURES. CONTRACTOR SHALL USE APPROVED FILLING MATERIAL FOR FILLING THESE AREAS. FILL SHALL BE CLEAN WITH LESS THAN 50% PASSING THE #200 SIEVE, PLASTICITY INDEX LESS THAN 10, WITH MAXIMUM PARTICLE SIZE OF 1.25 INCHES, AND SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8 INCHES IN THICKNESS AND COMPACTED TO AT LEAST 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (AASHTO T99).
- 6. ALL EXISTING STRUCTURES, PAVEMENTS, SLABS, FOUNDATIONS, STEPS AND OTHER EXISTING FEATURES INDICATED ON THE DRAWINGS TO BE REMOVED SHALL BE DEMOLISHED AND REMOVED BY THE CONTRACTOR. REMOVE NO STRUCTURE SUBSTANTIALLY AS A WHOLE. DEMOLISH COMPLETELY ON THE
- 7. ALL EXISTING SEWERS, PIPING, UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. CONTRACTOR SHALL GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK.
- 8. CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR PERSON AND PROPERTY AT ALL TIMES. HE OR SHE SHALL EXECUTE THE WORK IN A MANNER THAT AVOIDS HAZARDS TO PERSONS AND PROPERTY AND THAT PREVENTS INTERFERENCE WITH THE USE AND ACCESS TO ADJACENT PROPERTIES, BUILDINGS, AND ADJACENT STREETS. STREETS AND SIDEWALKS SHALL NOT BE BLOCKED BY DEBRIS AND
- 9. CONTRACTOR MUST STOP OPERATION AND NOTIFY THE OWNER FOR PROPER DIRECTION IF ANY ENVIRONMENTAL OR HEALTH RELATED CONTAMINATE IS ENCOUNTERED DURING THE DEMOLITION AND/OR EXCAVATION PROCESS.

DISPOSAL:

10. REMOVE AND LEGALLY DISPOSE OF ALL OTHER RUBBISH, RUBBLE, AND DEBRIS. ALL REFUSE AND MISCELLANEOUS ITEMS TO BE REMOVED, THAT ARE NOT TO BE STOCKPILED FOR LATER USE ON THE PROJECT OR DELIVERED TO THE OWNER, SHALL BE LEGALLY DIPOSED OF OFF-SITE BY THE CONTRACTOR IN ACCORDANCE WITH ANY AND ALL APPLICABLE LAWS, STANDARDS, AND REGULATIONS SET FORTH BY LOCAL, STATE, AND FEDERAL OFFICIALS THAT GOVERN THE DISPOSAL OF WASTE AND DEBRIS.

PAVEMENT REMOVAL:

- 11. WHERE EXISTING PAVEMENT IS TO BE REMOVED, CONTRACTOR SHALL SAW-CUT THE SURFACING LEAVING A UNIFORM AND STRAIGHT EDGE WITH THE MINIMAL DISTURBANCE POSSIBLE TO THE REMAINING ADJACENT SURFACING. IF CONSTRUCTION RESULTS IN RAVELING OF THE SAW-CUT SURFACE, RECUT BACK FROM THE RAVELED EDGE PRIOR TO RESTORATION.
- 12. WHERE EXISTING PAVEMENT, CURB, CURB AND GUTTER, SIDEWALK, DRIVEWAY OR VALLEY GUTTER IS TO BE REMOVED FOR THE PURPOSE OF CONSTRUCTION OR REMOVING BOX CULVERTS. PIPE. INLETS. MANHOLES, APPURTENANCES, FACILITIES OR STRUCTURES, SAID PAVEMENT, ETC., THE SAID OR PROPOSED STRUCTURE SHALL BE REPLACED AND RESTORED IN EQUAL OR BETTER CONDITION THAN THE ORIGINAL. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, MATERIALS, EQUIPMENT, TOOLS, SUPPLIES, AND ANY OTHER NECESSARY EQUIPMENT AS REQUIRED BY PROJECT AND SITE REQUIREMENTS.

ACCESS:

13. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE SURROUNDING PROPERTIES AT ALL TIMES DURING THE DEMOLITION PROCESS OF THE EXISTING FACILITIES AND SITE.

PERMITTING:

- 14. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY REQUIRED PERMITTING FOR DEMOLITION WITH ALL REQUIREMENTS PRIOR TO COMMENCING OF DEMOTION WORK.
- 15. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE EXTENT OF DEMOLITION REQUIRED IN ORDER TO PERFORM THE CONTRACT WORK FOR THIS PROJECT. THE CONTRACTOR SHALL CONDUCT SITE VISITS AND SHALL EXAMINE ALL OF THE INFORMATION WITHIN THESE DOCUMENTS AND ALL DISCREPANCIES AND/OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LEAD ENGINEER/ARCHITECT PRIOR TO BID SUBMITTAL.
- 16. CONTRACTOR SHALL LIMIT ALL DEMOLITION ACTIVITY TO THAT AREA DELINEATED IN THE DRAWING AND APPROVED BY OFFICIALS.
- 17. ALL OTHER EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO STORM DRAINAGE, GAS, ELECTRIC, TELEPHONE, AND WATER & SEWER SHALL BE PRESERVED AND PROTECTED AT ALL TIMES AS NEEDED

STAKING AND SURVEYING NOTES

STAKING:

- 1. THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION STAKING AND CONSTRUCTION ACTIVITIES BASED ON THE LATEST APPROVED DESIGN PLANS AND/OR DESIGN FILE(S) AS PROVIDED AND AS WARRANTED BY CLIENT AND PROJECT NEEDS.
- 2. PRIOR TO COMMENCING CONSTRUCTION STAKING OR CONSTRUCTION ACTIVITIES, THE CONTRACTOR AND/OR STAKING SURVEYOR SHALL CONFIRM WITH THE PROJECT LEAD ENGINEER/ARCHITECT, WHO'S RESPONSIBLE FOR THIS PROJECT, THAT THE LATEST PLANS AND/OR DESIGN FILE(S) ARE BEING UTILIZED.
- 3. THE ENGINEER/LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR OWNERS, CONTRACTORS OR SURVEYORS STAKING OR PERFORMING CONSTRUCTION ACTIVITIES BASED ON OUT-OF-DATE DESIGN
- 4. CONSTRUCTION STAKING SHALL ADHERE TO THE HORIZONTAL AND VERTICAL DATUM LISTED IN THIS CONSTRUCTION SET AND AS PROVIDED IN THE CORRESPONDING FILES, NOTES, AND/OR DRAWINGS.

TOLERANCES & DISCREPANCIES:

- 5. IF, DURING CONSTRUCTION STAKING OR CONSTRUCTION ACTIVITIES, SURVEY DISCREPANCIES ARE ENCOUNTERED WITH REGARD TO THE DESIGN PLANS OR DESIGN FILE, WORK SHOULD CEASE AND THE LEAD ENGINEER/LANDSCAPE ARCHITECT SHOULD BE NOTIFIED IMMEDIATELY TO RESOLVE THE ISSUE OR ISSUES. THE ENGINEER / LANDSCAPE ARCHITECT CAN NOT BE HELD RESPONSIBLE OR LIABLE FOR ISSUES THAT THEY HAVE NOT RECEIVED NOTIFICATION.
- 6. THE CONSTRUCTION TOLERANCES SHOWN IN THE CORRESPONDING DRAWINGS, NOTES, AND/OR FILES, IN GENERAL, REPRESENT INDUSTRY STANDARDS. HOWEVER, EXCEPTIONS CAN BE MADE IF IT DETERMINED THAT CERTAIN DEVIATED CONSTRUCTION ACTIVITIES DO NOT ADVERSELY AFFECT THE DESIGN REQUIREMENTS OR FUNCTIONALITY. THE LEAD ENGINEER/LANDSCAPE ARCHITECT WILL EVALUATE CONSTRUCTION ACTIVITIES THAT DEVIATE FROM THE DESIGN PLANS ON A CASE-BY-CASE BASIS. IF IT IS DETERMINED THAT THE CERTAIN DEVIATED CONSTRUCTION ACTIVITIES DO ADVERSELY AFFECT THE DESIGN REQUIREMENTS, FUNCTIONALITY, AND INTENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING OR REPAIRING ALL ITEMS TO THE PLANS AND SPECIFICATIONS AS DETERMINED AND REQUIRED BY DESIGN PROFESSIONAL, AT THE CONTRACTOR'S EXPENSE.

CIVIL ENGINEERING DESIGN TOLERANCES FOR PROJECT:

CONSTRUCTION, MATERIALS, TESTING, AND CERTIFICATIONS.

GENERAL GRADING:	±0.10 FEET	RETAINING WALLS:	±0.05 FEET
ALL PIPE/CONDUITS:	±0.05 FEET	SITE FEATURES (SPOT ELEV., ETC.)	±0.05 FEET
DRAINAGE STRUCTURES:	±0.05 FEET	UTILITY ELEVATIONS:	±0.10 FEET
SANITARY SEWER STRUCTURES:	±0.05 FEET	EROSION CONTROL BMPS:	±0.05 FEET
STORMWATER POND FEATURES:	±0.05 FEET		

AS-BUILT & SPECIFICATIONS:

- 7. THE ENGINEER/LANDSCAPE ARCHITECT SHOULD BE PROVIDED WITH AN AS-BUILT SURVEY OF THE PROJECT FOR REVIEW AND APPROVAL AFTER THE PROJECT IS COMPLETE. CONTRACTOR IS RESPONSIBLE FOR COORDINATING EFFORTS WITH DESIGN PROFESSIONAL
- 8. SEE THE PROJECT SPECIFICATIONS FOR ADDITIONAL SITE SPECIFIC REQUIREMENTS REGARDING

PROJECT GEOGRAPHICAL INFORMATION

PROJECT PROJECTION & DATUM:

HORIZONTAL DATUM: NAD83 TENNESSEE STATE PLANE ZONE, US FOOT VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

BOUNDARY SURVEY:

SURVEYOR CONTACT: (931) 645-2524

SURVEYOR FIRM: YOUNG - HOBBS AND ASSOCIATES SURVEYOR NAME: XXX

DATE OF SURVEY: 2/15/23

TRACT OR PARCEL: 103MA004 HORIZONTAL DATUM: NAD83 TENNESSEE STATE PLANE ZONE, US FOOT VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

TOPOGRAPHIC SURVEY:

SURVEYOR FIRM: YOUNG - HOBBS AND ASSOCIATES

SURVEYOR NAME: XXX

SURVEYOR CONTACT: (931) 645-2524 DATE OF SURVEY: 2/15/23

TRACT OR PARCEL: 103MA004 HORIZONTAL DATUM: NAD83 TENNESSEE STATE PLANE ZONE, US FOOT VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

GEOGRAPHICAL INFORMATION SYSTEMS (GIS) DATA UTILIZED:

TOPOGRAPHIC DATA: N/A PARCEL DATA: N/A ADDITIONAL DATA: N/A

THE TOPOGRAPHIC AND ELEVATION DATA SHOWN HEREON WAS OBTAINED FROM YOUNG - HOBBS AND ASSOCIATES AND IS NOT CERTIFIED AS CORRECT BY THIS ENGINEER. USERS OF THIS DATA DO SO

Atlanta Georgia,

30349-2998

|A|B|C





CARTER ENGINEERING 1010 COMMERCE DRIVE, BOGART, GA 30622

P: 770.725.1200 F: 770.725.1204 www.carterengineering.com HARDIN VALLEY FSU

TORE # 05442

2187 GREENLAND WAY, KNOXVILLE, TN 37932

SHEET TITLE

NOTES

GENERAL

REVISION 4—2023

Job No. : 23043CFA Store

08/28/23 Date

Sheet

9-B-23-TOB / 9-C-23-DP

Email: ckidd@wkud.com Knox County Land Development Services

205 West Baxter Avenue, Knoxville, TN 37917 Mr. Martin Pleasant 865-215-5859 Email: Martin.Pleasant@knoxcounty.org

West Knox Utility District 2328 Lovell Road, Knoxville, TN 37932 Contact: Mr. Christian Kidd, P.E.

865-690-2521 Phone: Email: ckidd@wkud.com LCUB - Lenoir City Utilities Board 7698 Creekwood Park Blvd., Lenoir City, TN 37772

865-988-0730 Phone: Email: jhines@lcub.com TELEPHONE Agency:

Contact:

Phone: Email:

THIS

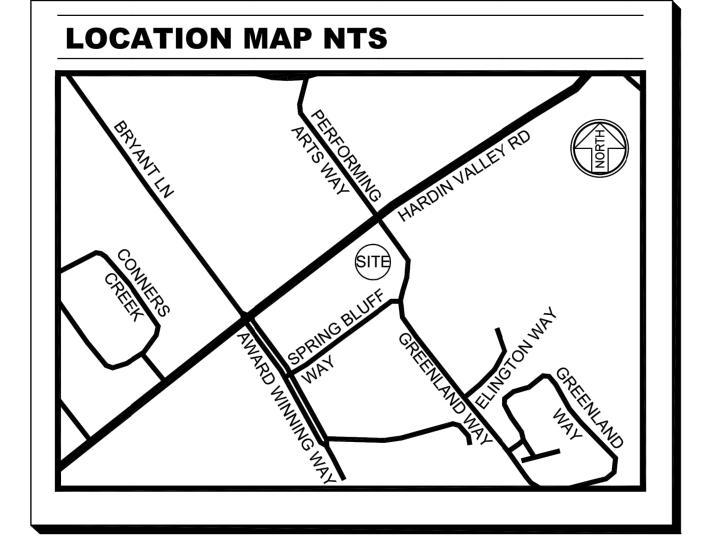
Contact: Customer Service 877-625-9103 Phone:

Knoxville Utilities Board (KUB) 4428 Western Ave, Knoxville, TN 37921 Contact: New Construction

865-558-2555

Mr. Jay Hines

Call before you dig



LAND DESCRIPTION (PER TITLE COMMITMENT):

A CERTAIN TRACT OR PARCEL OF LAND IN KNOX COUNTY, STATE OF TENNESSEE, DESCRIBED AS FOLLOWS,

SITUATED IN DISTRICT NUMBER SIX (6) OF KNOX COUNTY, TENNESSEE, AND WITHOUT THE CORPORATE LIMITS OF THE CITY OF KNOXVILLE, TENNESSEE, AND BEING KNOWN AS ALL OF LOT NUMBER 1R, IN THE REVISED FINAL PLAT OF LOTS 1, 2, 3, 5, 7, & 8, OF THE VILLAGE AT HARDIN VALLEY SUBDIVISION, AS THE SAME APPEARS OF RECORD IN INSTRUMENT NO. 201008160009832 IN THE REGISTER'S OFFICE FOR KNOX COUNTY, TENNESSEE, TO WHICH SPECIFIC REFERENCE IS HEREBY MADE FOR A MORE PARTICULAR DESCRIPTION.

LESS AND EXCEPT: QUIT CLAIM DEED RECORDED FEBRUARY 10, 2017, IN INSTRUMENT NO. 201702100049663, IN THE REGISTER'S OFFICE OF KNOX COUNTY, TENNESSEE. BEING THE SAME PROPERTY CONVEYED TO OKR GP, A TENNESSEE GENERAL PARTNERSHIP (BY VIRTUE OF WARRANTY DEED FROM KNOXVILLE TVA EMPLOYEES CREDIT UNION, DATED MAY 23, 2016, RECORDED JUNE 6, 2016, IN INSTRUMENT NO. 201606060070861, IN THE REGISTER'S OFFICE OF KNOX COUNTY, TENNESSEE).

PARCELS 2, 3 AND 5:

A CERTAIN TRACT OR PARCEL OF LAND IN KNOX COUNTY, STATE OF TENNESSEE, DESCRIBED AS FOLLOWS,

SITUATED IN THE SIXTH (6TH) CIVIL DISTRICT OF KNOX COUNTY, TENNESSEE, AND BEING LOTS 2R, 3R AND 5 OF THE REVISED FINAL PLAT OF LOTS 1, 2, 3, 5, 7, & 8 OF THE VILLAGE AT HARDIN VALLEY, AS SHOWN ON PLAT OF RECORD IN INSTRUMENT NO. 201008160009832 IN THE REGISTER'S OFFICE FOR KNOX COUNTY, TENNESSEE, TO WHICH PLAT SPECIFIC REFERENCE IS HEREBY MADE FOR A MORE PARTICULAR DESCRIPTION. BEING THE SAME PROPERTY CONVEYED TO OKR GP, A TENNESSEE GENERAL PARTNERSHIP (BY VIRTUE OF WARRANTY DEED FROM BURR, LLC, A TENNESSEE LIMITED LIABILITY COMPANY, DATED MAY 23, 2016, RECORDED MAY 26, 2016, IN INSTRUMENT NO. 201605260068749, KNOX COUNTY, TENNESSEE).

PARCEL 4:

ALL THAT TRACT OR PARCEL OF LAND LYING AND BEING LOCATED ON CLT MAP 103 AND BEING SITUATED WITHIN THE SIXTH CIVIL DISTRICT OF KNOX COUNTY, TENNESSEE BEING LOT 4 OF THE VILLAGE AT HARDIN VALLEY SUBDIVISION AS SHOWN ON THAT CERTAIN FINAL PLAT OF THE VILLAGE AT HARDIN VALLEY, OF ✓ RECORD AS INSTRUMENT NUMBER 20071002-0027968 IN THE OFFICE OF THE REGISTER OF DEEDS FOR KNOX COUNTY, TENNESSEE, AS AMENDED BY THAT CERTAIN FINAL PLAT OF LOT 4, THE VILLAGE AT HARDIN VALLEY, OF RECORD AS INSTRUMENT NUMBER 20080717-003867 IN THE OFFICE OF THE REGISTER OF DEEDS FOR KNOX COUNTY TENNESSEE.

LESS AND EXCEPT:

THE FOLLOWING PORTION OF THE ABOVE-DESCRIBED PROPERTY THAT WAS CONVEYED BY GRANTOR TO KNOX COUNTY, TENNESSEE: COMMENCING AT THE POINT OF BEGINNING, POINT BEING 68.22 FEET RIGHT OF THE CENTERLINE STA. 186+54.83; THENCE SOUTH 50 DEGREES, 41 MINUTES, 12 SECONDS WEST, A DISTANCE U OF 29.86 FEET; THEN NORTH 39 DEGREES, 18 MINUTES, 48 SECONDS WEST, A DISTANCE OF 19.45 FEET TO THE ENDING POINT BEING 49.22 FEET RIGHT OF STA. 186+23.71. CONTAINING 378 SQUARE FEET, MORE OR LESS, IN THE ABOVE-DESCRIBED PARCEL.

BEING THE SAME PROPERTY CONVEYED TO OKR GP, A TENNESSEE GENERAL PARTNERSHIP (BY VIRTUE OF SPECIAL WARRANTY DEED FROM SUNTRUST BANK, A GEORGIA BANKING CORPORATION, DATED MAY 29, 2018. RECORDED JUNE 4, 2018, IN INSTRUMENT NO. 201806040071672, KNOX COUNTY, TENNESSEE).

S O

NOT

SITUATED WITHIN THE SIXTH (6TH) CIVIL DISTRICT OF KNOX COUNTY, TENNESSEE, WITHOUT THE CORPORATE LIMITS OF THE CITY OF KNOXVILLE, TENNESSEE, BEING LOT 6 OF THE FINAL PLAT OF THE VILLAGE AT HARDIN

VALLEY, AS SHOWN ON MAP FILED FOR RECORD AS INSTRUMENT NO. 200710020027968 IN THE KNOX COUNTY REGISTER OF DEEDS OFFICE, TO WHICH MAP SPECIFIC REFERENCE IS HEREBY MADE FOR A MORE PARTICULAR DESCRIPTION OF SAID LOT. BEING THE SAME PROPERTY CONVEYED TO OKR GP, A TENNESSEE GENERAL PARTNERSHIP (BY VIRTUE OF WARRANTY DEED FROM ORNL FEDERAL CREDIT UNION, DATED MAY 23, 2016, RECORDED JUNE 9, 2015, IN INSTRUMENT NO. 201506090067733, KNOX COUNTY, TENNESSEE).

ZONING: PER SITE INVESTIGATION REPORT

THE FOLLOWING ZONING INFORMATION WAS TAKEN FROM THE SITE INVESTIGATION REPORT.

THE SUBJECT PARCEL IS ZONED (PC), PLANNED COMMERCIAL ZONE, AND (TO), TECHNOLOGY OVERLAY.

BUILDING SETBACK LANDSCAPING FRONT (HARDIN VALLEY RD) REAR (SPRING BLUFF WAY) LEFT SIDE (GREENLAND WAY) RIGHT SIDE (UNDEVELOPED/PARKING LOT)

MAXIMUM BUILDING HEIGHT: EXCEPT IN HILLSIDE AND RIDGETOP PROTECTION AREAS, THE MAXIMUM ALLOWABLE HEIGHT OF A STRUCTURE IS SET AT NINETY (90) FEET, MEASURED FROM THE FINISHED GRADE...

BUILDING FLOOR AREA RATIO: SHALL NOT EXCEED 30% EXCEPT WHERE A PROPOSED BUILDING INCLUDES AN UNDER-BUILDING PARKING STRUCTURE, IN WHICH CASE THE FLOOR AREA RATION MAY NOT EXCEED 40%.

SURVEYOR'S CERTIFICATION:

To: CHICK-FIL-A, INC A GEORGIA CORPORATION, DESIGNEE OF HILLIARD CREWS PARTNERSHIP, A TENNESSEE GENERAL PARTNERSHIP AND FIDELITY NATIONAL TITLE INSURANCE COMPANY

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6(a), 7(a), 7(b)(1), 7(c), 8, 9, 10(a), 11, 13, 14, 16, 17, 18, AND 19 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON MARCH 11, 2022.

DATE

DATE OF PLAT OR MAP: FEBRUARY 15, 2023.

PRELIMINARY

KENNETH A. BAU, RLS 2019 kenny@younghobbs.com

LAND DESCRIPTION (AS SURVEYED):

ALL THAT TRACT OR PARCEL OF LAND LYING AND BEING LOCATED ON CLT MAP 103 AND BEING SITUATED WITHIN THE SIXTH CIVIL DISTRICT OF KNOX COUNTY, TENNESSEE BEING LOT 4R OF THE FINAL PLAT OF LOT 4, THE VILLAGE AT HARDIN VALLEY, OF RECORD AS INSTRUMENT NUMBER 20080717-003867 IN THE OFFICE OF THE REGISTER OF DEEDS FOR KNOX COUNTY TENNESSEE.

LESS AND EXCEPT:

THE FOLLOWING PORTION OF THE ABOVE-DESCRIBED PROPERTY THAT WAS CONVEYED BY GRANTOR $^{\circ}$ KNOX COUNTY, TENNESSEE: COMMENCING AT THE POINT OF BEGINNING, POINT BEING 68,22 FEET RIGHT OF THE CENTERLINE STA. 186+54.83; THENCE SOUTH 50 DEGREES, 41 MINUTES, 12 SECONDS WEST, A DISTANCE OF 29.86 FEET; THEN NORTH 39 DEGREES, 18 MINUTES, 48 SECONDS WEST, A DISTANCE OF 19.45 FEET TO THE ENDING POINT BEING 49.22 FEET RIGHT OF STA. 186+23.71. CONTAINING 378 SQUARE FEET, MORE OR LESS, IN THE ABOVE-DESCRIBED PARCEL.

BEING THE SAME PROPERTY CONVEYED TO OKR GP, A TENNESSEE GENERAL PARTNERSHIP (BY VIRTUE OF SPECIAL WARRANTY DEED FROM SUNTRUST BANK, A GEORGIA BANKING CORPORATION, DATED MAY 29, 2018, RECORDED JUNE 4, 2018, IN INSTRUMENT NO. 201806040071672, KNOX COUNTY, TENNESSEE).

BEGINNING AT 5/8" IRON PIN FOUND IN THE SOUTHEAST RIGHT OF WAY LINE OF HARDIN VALLEY ROAD, SAID IRON PIN BEING THE NORTH CORNER OF LOT 2R, AS SHOWN IN INSTR. NO. 201008160009832; THENCE WITH SAID RIGHT OF WAY LINE, AS FOLLOWS: N 62°02'14" E A DISTANCE OF 48.37 FEET TO A 5/8" IRON PIN FOUND; THENCE N 50°37'39" E A DISTANCE OF 179.32 FEET TO A PK NAIL SET; THENCE S 39°18'48" E A DISTANCE OF 19.45 FEET TO A 1/2" IRON PIN SET; THENCE N 50°41'12" E A DISTANCE OF 29.84 FEET TO A 1/2" IRON PIN SET; THENCE WITH THE SOUTHWEST RIGHT OF WAY LINE OF GREENLAND WAY, AS FOLLOWS: S 84°19'41" E A DISTANCE OF 6.34 FEET TO A 5/8" IRON PIN SET: THENCE WITH A CURVE TURNING TO THE RIGHT WITH AN ARC LENGTH OF 19.93 FEET WITH A RADIUS OF 25.00 FEET WITH A CHORD BEARING OF S 61°29'32" E, WITH A CHORD LENGTH OF 19.40 FEET TO A 5/8" IRON PIN FOUND: THENCE S 38°42'21" E A DISTANCE OF 129.74 FEET TO A 5/8" IRON PIN FOUND; THENCE WITH A CURVE TURNING TO THE RIGHT WITH AN ARC LENGTH OF 81.59 FEET WITH A RADIUS OF 93.50 FEET WITH A CHORD BEARING OF S 13°39'29" E, WITH A CHORD LENGTH OF 79.02 FEET TO A 5/8" IRON PIN FOUND; THENCE S 11°20'49" W A DISTANCE OF 90.28 FEET TO A 5/8" IRON PIN FOUND; THENCE WITH A CURVE TURNING TO THE RIGHT WITH AN ARC LENGTH OF 17.39 FEET WITH A RADIUS OF 25.00 FEET WITH A CHORD BEARING OF S 31°07'34" W, WITH A CHORD LENGTH OF 17.04 FEET TO A 5/8" IRON PIN FOUND; THENCE WITH THE NORTHWEST RIGHT OF WAY LINE OF SPRING BLUFF WAY S 51°04'58" W A DISTANCE OF 150.37 FEET TO A 5/8" IRON PIN FOUND; THENCE LEAVING SAID RIGHT OF WAY LINE WITH LOTS 2R & 3R, AS SHOWN IN INSTR. NO. 201008160009832 N 38°41'12" W A DISTANCE OF 314.12 FEET TO THE POINT OF BEGINNING, HAVING AN AREA OF 76,244 SQUARE FEET, 1.750 ACRES, MORE OR LESS.

NOTES CORRESPONDING TO SCHEDULE B SECTION II:

FIDELITY NATIONAL TITLE INSURANCE COMPANY COMMITMENT DATE: NOVEMBER 1, 2022 @ 8:00 A.M. COMMITMENT NO.: TN2522101000J/223508ATL ITEMS 1-9 ARE STANDARD EXCEPTIONS AND/OR NOT SURVEYING RELATED.

THE TITLE COMMITMENT PROVIDED TO THE SURVEYOR IS FOR MULTIPLE PARCELS. THE SURVEYOR REVIEW THE TITLE COMMITMENT AS TO HOW THE ITEMS WOULD AFFECT LOT 4R OF INSTRUMENT NUMBER 200807170003867.

10. EASEMENT AGREEMENT AND TERMINATION OF EASEMENT RECORDED JUNE 12, 1990, IN BOOK 2011, PAGE 89, AFORESAID RECORDS. DOES NOT AFFECT. (DOES NOT AFFECT EASEMENT PARCEL)

11. UTILITY EASEMENT RECORDED JUNE 13, 2002, IN INSTRUMENT NO. 200206130102985, AFORESAID RECORDS. DOES NOT AFFECT. (DOES NOT AFFECT EASEMENT PARCEL)

12. EASEMENT CONTAINED IN WARRANTY DEED RECORDED JUNE 19, 2002, IN INSTRUMENT NO. 200206190104399, AFORESAID RECORDS, DOES NOT AFFECT

13. TERMS AND CONDITIONS OF AGREED FINAL ORDER RECORDED AUGUST 21, 2007, IN INSTRUMENT NO. 200708270018101, AFORESAID RECORDS. (AFFECTS PARCEL 1, 3, 5 AND 6) DOES

14. ACCESS AND CONSTRUCTION EASEMENT AGREEMENT RECORDED APRIL 19, 2011, IN INSTRUMENT NO. 201104190061661, AFORESAID RECORDS PARCELS 1, 2 3, 5 AND 6: DOES NOT AFFECT.

15. RESTRICTIONS CONTAINED IN SPECIAL WARRANTY DEED RECORDED JUNE 4, 2018, IN INSTRUMENT NO. 201806040071672, AFORESAID RECORDS. AFFECTS, NOT PLOTTABLE. (EXPIRE ON

16. TERMS AND CONDITIONS OF DECLARATION OF COVENANTS CONDITIONS AND RESTRICTIONS (THE VILLAGE AT HARDIN VALLEY) RECORDED OCTOBER 1, 2007, IN INSTRUMENT NO. 200710010027935; AS AFFECTED BY THAT PARTIAL RELEASE AS TO EASEMENT AREA RECORDED MARCH 8, 2013, IN INSTRUMENT NO. 201303080058732; AS AMENDED BY THAT AMENDED DECLARATION OF COVENANTS, CONDITIONS AND RESTRICTIONS RECORDED APRIL 19, 2011, IN INSTRUMENT NO. 201104190061662; AS AFFECTED BY THAT PARTIAL RELEASE AS TO EASEMENT AREA RECORDED MARCH 8, 2013, IN INSTRUMENT NO. 201303080058734, AFORESAID RECORDS. AFFECTS, NO PLOTTABLE EASEMENTS.

17. EASEMENT CONTAINED IN WARRANTY DEED RECORDED NOVEMBER 20, 2001, IN INSTRUMENT NO. 200111200040361, AFORESAID RECORDS. DOES NOT AFFECT.

18. EASEMENT CONTAINED IN SPECIAL WARRANTY DEED RECORDED SEPTEMBER 11, 2015, IN INSTRUMENT NO. 201509110016643, AFORESAID RECORDS. PARCELS 1. 2, 3, 4, 5 AND 6: AF FECTS VESTED TITLE ONLY, NO PLOTTABLE EASEMENT.

19. UTILITY EASEMENT IN FAVOR OF WEST KNOX UTILITY DISTRICT RECORDED FEBRUARY 13, 2002, IN INSTRUMENT NO. 200202130066934, AFORESAID RECORDS. DOES NOT AFFECT. (DOES

NOT AFFECT EASEMENT PARCEL) 20. COVENANTS FOR PERMANENT MAINTENANCE OF STORMWATER FACILITIES

RECORDED AUGUST 31, 2007, IN INSTRUMENT NO. 200708310019574, AFORESAID RECORDS.

AFFECTS, NO PLOTTABLE EASEMENTS.

21. UTILITY EASEMENT AGREEMENT RECORDED JULY 18, 2008, IN INSTRUMENT NO. 20080718000449 AND INSTRUMENT NO. 200807180004495, INSTRUMENT NO. 200807180004496, AFORESAID RECORDS. AFFECTS, NO NEW EASEMENTS CREATED.

22. DECLARATION OF ACCESS EASEMENTS RECORDED AUGUST 16, 2010, IN INSTRUMENT NO. 201008160009831, AFORESAID RECORDS. DOES NOT AFFECT. (DOES NOT AFFECT

23. RECIPROCAL EASEMENT AGREEMENT AND AMENDMENT OF RESTRICTIONS RECORDED FEBRUARY 28, 2011, IN INSTRUMENT NO. 201102280051564; AS AFFECTED BY THAT PARTIAL RELEASE AS TO EASEMENT AREA RECORDED MARCH 8, 2013, IN INSTRUMENT NO. 201303080058732; AS AFFECTED BY THAT PARTIAL RELEASE AS TO EASEMENT AREA RECORDED MARCH 8, 2013, IN INSTRUMENT NO. 201303080058734, AFORESAID RECORDS. AFFECTS, NO PLOTTABLE EASEMENTS.

24. EASEMENTS, RIGHTS OF WAY, BOUNDARY LINES AND IMPROVEMENTS AS SHOWN ON PLAT RECORDED IN INSTRUMENT NO. 200710020027968; INSTRUMENT NO. 200807170003867; INSTRUMENT NO. 20100816009832, AFORESAID RECORDS. AFFECTS, AS SHOWN.

25. TERMS AND CONDITIONS OF CONSENT AGREEMENT BY ORNL FEDERAL CREDIT UNION RECORDED APRIL 1, 2011, IN INSTRUMENT NO. 201104010058366, AFORESAID RECORDS. PARCEL 4: DOES NOT AFFECT. (DOES NOT AFFECT EASEMENT PARCEL)

26. GRANT OF TRANSMISSION LINE EASEMENT RECORDED IN BOOK 1243, PAGE 68, AFORESAID RECORDS. DOES NOT AFFECT.

REGULAR - 0 HANDICAP - 0

SITE ADDRESS

2187 GREENLAND WAY

KNOXVILLE, TN 37932

PARKING COUNT CLIENT INFORMATION

CHICK-FIL-A 5200 BUFFINTON ROAD ATLANTA, GA 3034-32998

OWNER INFORMATION

INST. NO. 201806040071672; PLAT OF LOT 4R, THE VILLAGE AT HARDIN VALLEY, PLAT BOOK 200807170003867 PARCEL ID 103MA004 CITY OF KNOXVILLE. KNOX COUNTY, TN

ITEM 2: SITE ADDRESS SHOWN IS PER KNOX COUNTY, TN TAX RECORD.

THIS PROPERTY IS LOCATED WITHIN AN AREA HAVING ZONE

IN KNOX COUNTY UNINCORPORATED AREAS, STATE OF

MAP FOR THE COMMUNITY IN WHICH SAID PROPERTY IS

SECTIONS AND ARE SHOWN AT ONE FOOT INTERVALS.

ITEM 6A: NO ZONING LETTER SENT TO THIS SURVEYOR.

PROCESS OF CONDUCTING THE FIELDWORK

ITEM 17: THERE WAS NO EVIDENCE OF RECENT CHANGES IN STREET

THE PROCESS OF CONDUCTING THE FIELDWORK.

DESIGNATIONS OF ZONE "X" BY THE SECRETARY OF HOUSING

AND URBAN DEVELOPMENT, ON FLOOD INSURANCE RATE MAP

NO. 47093C0233G, WITH AN EFFECTIVE DATE OF AUGUSTY 5, 2013,

TENNESSEE, WHICH IS THE CURRENT FLOOD INSURANCE RATE

CONTOURS WERE DERIVED FROM RANDOM SHOTS AND CROSS

ELEVATIONS SHOWN HEREON ARE BASED ON GPS OBSERVATIONS

TOGETHER WITH AN OPUS SOLUTION, DATED 02/21/2023 (NAVD88,

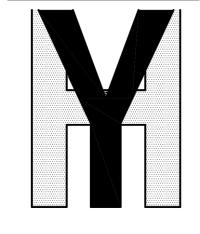
THERE WAS NO EVIDENCE OF RECENT EARTH MOVING, BUILDING

RIGHT OF WAY LINES. THERE WAS NO EVIDENCE OF RECENT OR

STREET SIDEWALK CONSTRUCTION OR REPAIRS OBSERVED IN

CONSTRUCTION. OR BUILDING ADDITIONS OBSERVED IN THE

5200 Buffington Road Atlanta, Georgia 30349-2998



YOUNG - HOBBS AND **ASSOCIATES**

> 1202 CROSSLAND AVE CLARKSVILLE, TN 37040 PHONE 931-645-2524 FAX 931-645-2768

PRELIMINARY NOT FOR RECORDING OR TRANSFER

SURVEY NOTES:

TABLE A NOTES:

SITUATED."

INFORMATION REGARDING THE PRESENCE, SIZE AND LOCATION OF UNDERGROUND UTILITIES IS SHOWN HEREON. THIS INFORMATION HAS BEEN SHOWN BASED ON THE LOCATION OF ABOVE GROUND APPURTENANCES, AVAILABLE DESIGN PLANS. AND FLAGS AND PAINT PLACED BY THE UNDERGROUND PROTECTION SERVICE. NO CERTIFICATION IS MADE AS TO THE ACCURACY OF THOROUGHNESS OF THE INFORMATION CONCERNING UNDERGROUND UTILITIES AND STRUCTURES SHOWN HEREON. (TENNESSEE ONE CALL 811 - TENN811.COM) (TICKET NUMBER 220681406).

NO PRIVATE UTILITY LOCATE WAS PERFORMED ON THIS SITE AT THE TIME OF

CONTACT PROPER AUTHORITIES BEFORE BUILDING NEAR UTILITY LINES, FOR EASEMENT WIDTH AND RESTRICTIONS. UTILITIES ARE APPROXIMATE AND SHOULD BE VERIFIED PRIOR TO ANY CONSTRUCTION.

THIS SURVEY HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF THE PERSON OR ENTITIES NAMED HEREON. NO EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE INFORMATION SHOWN HEREON IS TO BE EXTENDED TO ANY PERSONS OR ENTITIES OTHER THAN THOSE SHOWN HEREON.

LIST OF ENCROACHMENTS: NONE NOTED

THERE ARE NO BUILDINGS ON SITE AT THE TIME OF THIS SURVEY

THE SURVEY SHOWN HEREON WAS MADE IN ACCORDANCE WITH CHAPTER 0820-3, STANDARDS OF PRACTICE AS ADOPTED BY THE TENNESSEE STATE BOARD OF EXAMINERS FOR LAND SURVEYORS GROUND MEASUREMENTS ARE USED AS THE BASIS FOR LOCATION OF ALL

FEATURES OF THE SUBJECT PROPERTY

UNLESS STATED OTHERWISE, ANY MONUMENT REFERRED TO HEREIN AS AN "IRON PIN SET" IS A SET 1/2" DIAMETER REBAR, 18" IN LENGTH, WITH A YELLOW PLASTIC CAP STAMPED "YOUNG HOBBS" OR A PK NAIL SET WITH A 1-1/2" ALUMINUM DISK STAMPED "YOUNG HOBBS".

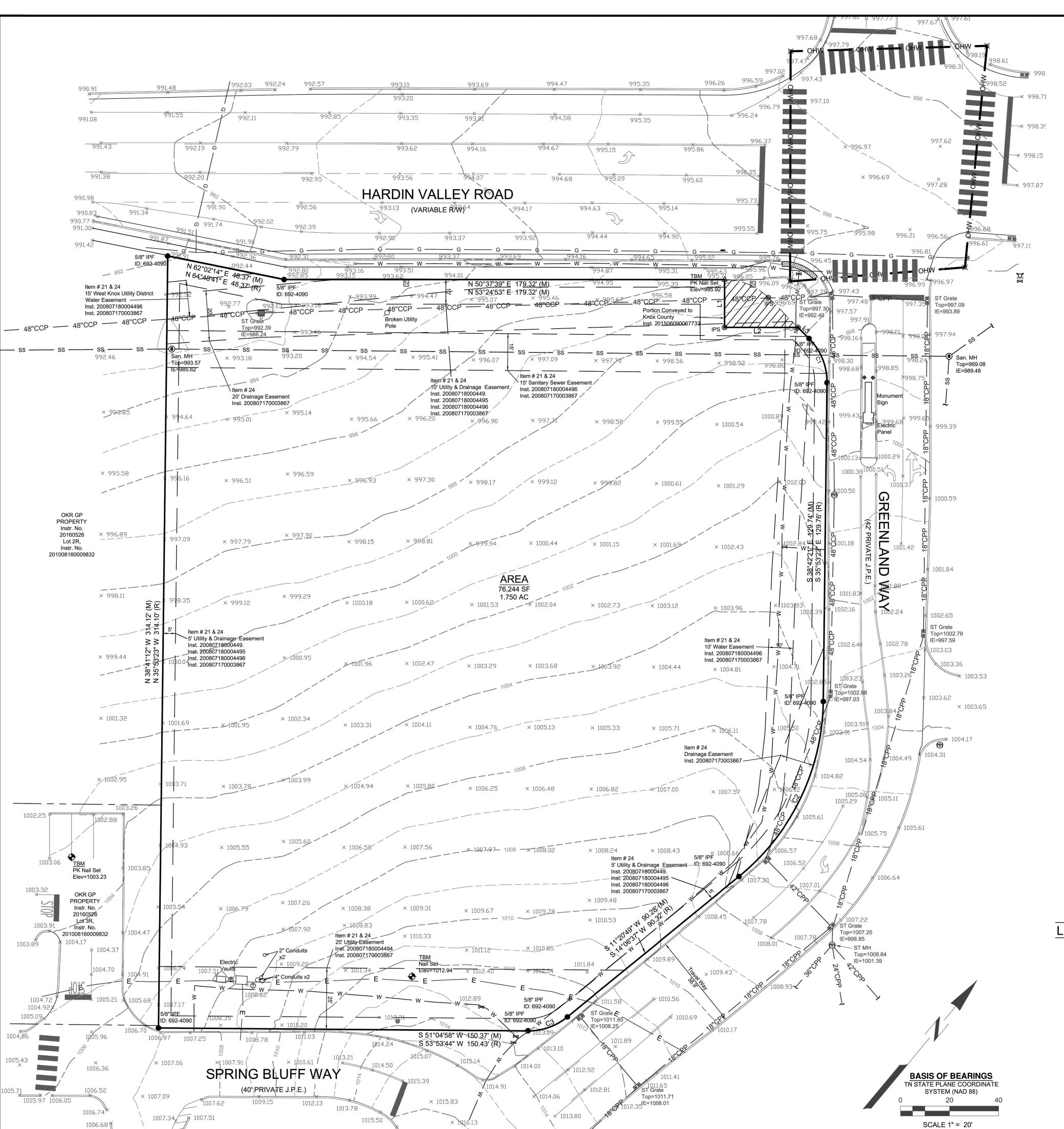
ALL MATTERS SHOWN ON RECORDED PLATS ARE SHOWN ON SURVEY.

I HEREBY CERTIFY THAT THIS SURVEY HAS BEEN MADE USING THE RECORDED INFORMATION SHOWN, AND THAT THIS SURVEY IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I HEREBY CERTIFY THAT THIS IS A CATEGORY 1 SURVEY AND THAT THE RATIO OF PRECISION OF THE UNADJUSTED TRAVERSE IS BETTER THAN 1:10,000 AS SHOWN HEREON.

KE	VISION SCHEDU	<u>JLE</u>
NC	DATE	DESCRIPTION
1	5/19/23	TOL COMMENTS
2		

YHA PROJECT#	026-23
DATE (FIELD)	2/15/23
DATE (OFFICE)	2/21/23
CHECKED BY	CTH

ALTA/NSPS LAND TITLE SURVEY SHEET 1 OF 2



SITE ADDRESS

2187 GREENLAND WAY KNOXVILLE, TN 37932

PARKING COUNT

REGULAR - 0 HANDICAP - 0

CLIENT INFORMATION

CHICK-FIL-A 5200 BUFFINGTON ROAD ATLANTA, GEORGIA 30349-2998

OWNER INFORMATION

OKR, GP
INST. NO. 201806040071672;
PLAT OF LOT 4R, THE VILLAGE AT
HARDIN VALLEY,
PLAT BOOK 200807170003867
PARCEL ID 103MA004
CITY OF KNOXVILLE,
KNOX COUNTY, TN

Item # 24
PLAT NOTE: (INSTR. NO. 200807170003867)

1. JOINT PERMANENT EASEMENT (J.P.E.) ARE NOT A PUBLIC ROADS AND WILL NOT BE MAINTAINED BY KNOX COUNTYL.

2. JOINT PERMANENT EAEMENT WILL ALSO FUNCTION AS A UTILITY EASEMENT.

3. THE GRADE OF THE JPE IS 12% OR LESS.

4. THE DECLARATION OF MAINTENANCE AGREEMENT FOR THE JPE IS OF RECORD IN INSTRUMENT #200708310019574 OF SAID REGISTERS OFFICE.

5. THE HOMEOWNERS ASSOCIATION HAS BEEN ESTABLISHED TO BE RESPONSIBLE FOR THE MAINTENANCE OF THE DETENTION BASIN AND COMMON AREAS AND IS OF RECORD IN INSTRUMENT #200708310019574 OF SAID REGISTERS OFFICE.

6. ALL LOTS WILL HAVE ACCESS TO INTERIOR STREET SYSTEM ONLY.

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1 M	25.00'	19.93'	19.40'	S 61°29'32" E	45°40'07"
C1 R	25.00'	19.94'	19.41'	S 58°44'15" E	N/A
C2 M	93.50'	81.59'	79.02'	S 13°39'29" E	49°59'47"
C2 R	93.50'	81.59'	79.03'	S 10°53'23" E	N/A
C3 M	25.00'	17.39'	17.04'	S 31°07'34" W	39°50'40"
C3 R	25.00'	17.36'	17.01'	S 34°00'11" W	N/A

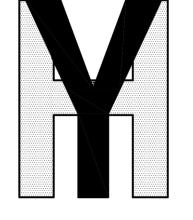
LINE	BEARING	DISTANCE
L1 M	S 39°18'48" E	19.45'
L1 R	S 39°18'48" E	19.45'
L2 M	N 50°41'12" E	29.84'
L2 R	N 50°41'12" E	29.86'
L3 M	S 84°19'41" E	6.34'
L3	S 84°19'41" E	6.34'
		·

EGEND	
● S X C E X ⊗ C E X ⊗ C E G W	IRON PIN SET (IPS) IRON PIN FOUND, AS NOTED BOLLARD SEWER MANHOLE FIRE HYDRANT WATER VALVE UTILITY POLE TRAFFIC VAULT TRAFFIC POLE GAS VALVE TELEPHONE BOX CURB INLET GRATE INLET STORM MANHOLE PROPERTY LINE EASEMENT LINE SETBACK LINES OVERHEAD TRAFFIC WIRE UNDERGROUND ELECTRIC GAS LINE, AS NOTED SANITARY SEWER, AS NOTED STORM SEWER PIPE, AS NOTED
01	





5200 Buffington Road Atlanta, Georgia 30349-2998



YOUNG - HOBBS AND ASSOCIATES

1202 CROSSLAND AVE. CLARKSVILLE, TN 37040 PHONE 931-645-2524 FAX 931-645-2768

PRELIMINARY, NOT FOR RECORDING OR TRANSFER

CHICK-FIL-A HARDIN VALLEY

FSU# <u>5442</u>

EVI	SION SCHEDULE	
NO.	DATE	DESCRIPTION
1	5/19/23	TOL COMMEN
2		

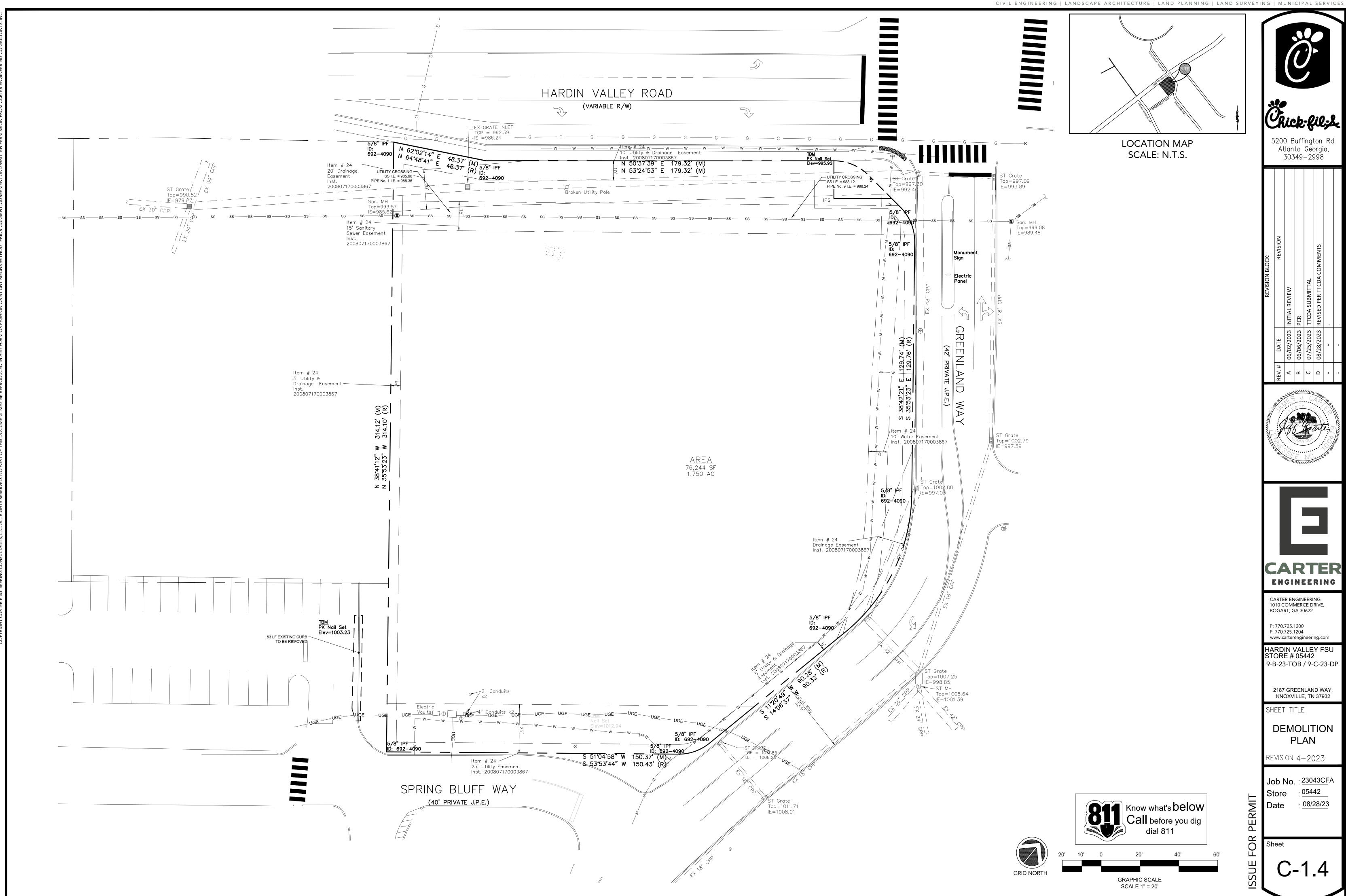
IA PROJECT#	026-23
TE (FIELD)	2/15/23
TE (OFFICE)	2/21/23
IECKED BY	CTH

Information contained on this drawing and in all digital files produced for above named project may not be reproduced in any manner without express written or verbal consent from authorized project representatives.

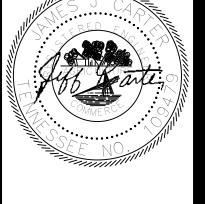
SHEET

ALTA/NSPS LAND TITLE SURVEY SHEET 2 OF 2

C-1.3



5200 Buffington Rd. Atlanta Georgia, 30349—2998



CARTER

ENGINEERING CARTER ENGINEERING 1010 COMMERCE DRIVE, BOGART, GA 30622

HARDIN VALLEY FSU STORE # 05442 9-B-23-TOB / 9-C-23-DP

2187 GREENLAND WAY, KNOXVILLE, TN 37932

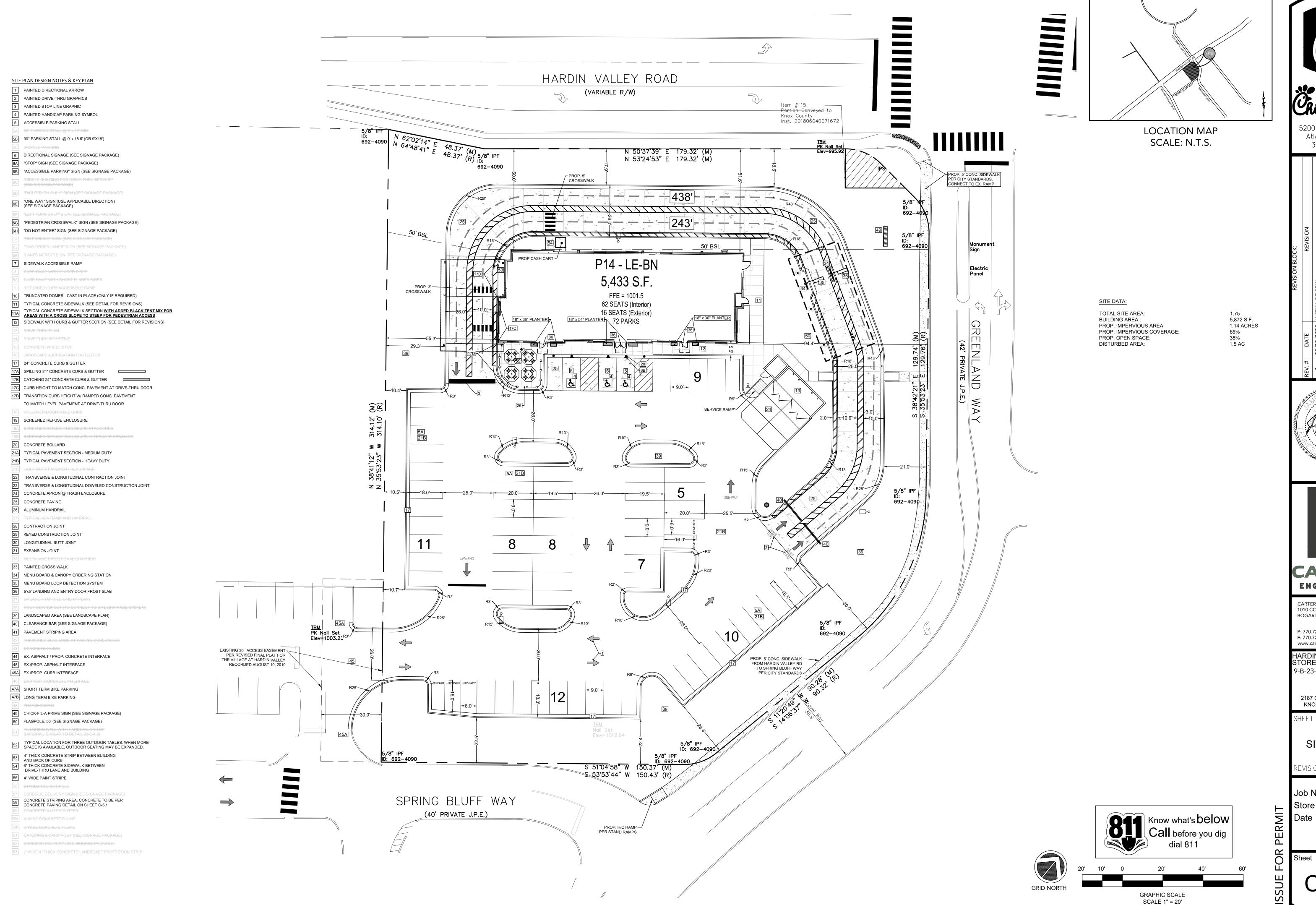
SHEET TITLE

PLAN

REVISION 4-2023

Job No. : <u>23043CF</u>A

05442 08/28/23



CIVIL ENGINEERING | LANDSCAPE ARCHITECTURE | LAND PLANNING | LAND SURVEYING | MUNICIPAL SERVICES

5200 Buffington Rd Atlanta Georgia, 30349-2998



CARTER

ENGINEERING CARTER ENGINEERING 1010 COMMERCE DRIVE.

BOGART, GA 30622 P: 770.725.1200

F: 770.725.1204 www.carterengineering.com

HARDIN VALLEY FSU STORE # 05442 9-B-23-TOB / 9-C-23-DP

2187 GREENLAND WAY, KNOXVILLE, TN 37932

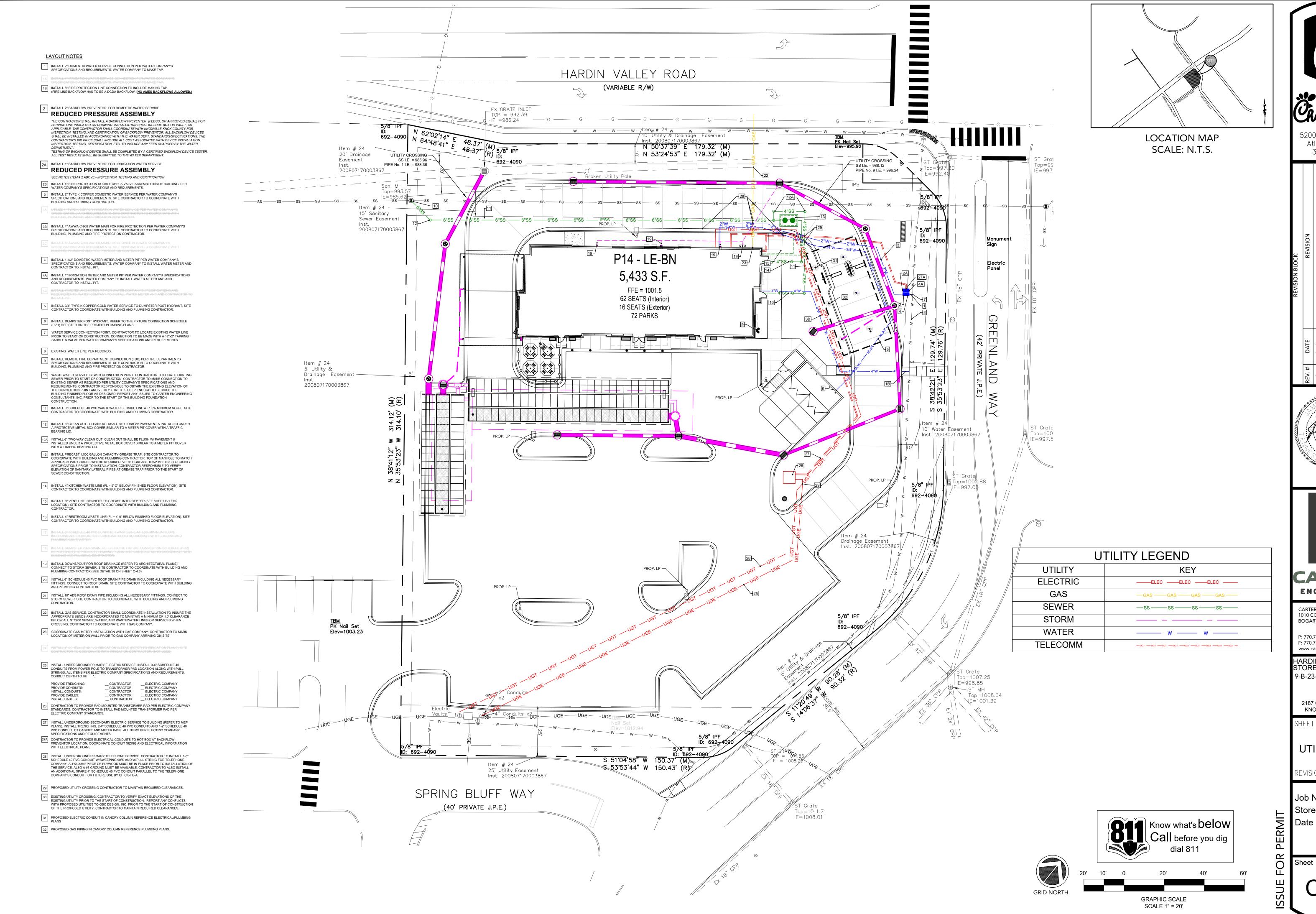
SHEET TITLE

SITE PLAN

REVISION 4-2023

Job No. : <u>23043C</u>FA . 05442

. 08/28/23



CIVIL ENGINEERING | LANDSCAPE ARCHITECTURE | LAND PLANNING | LAND SURVEYING | MUNICIPAL SERVICES

Atlanta Georgia, 30349-2998





ENGINEERING CARTER ENGINEERING

1010 COMMERCE DRIVE, BOGART, GA 30622

P: 770.725.1200 F: 770.725.1204 www.carterengineering.com HARDIN VALLEY FSU

STORE # 05442 9-B-23-TOB / 9-C-23-DP

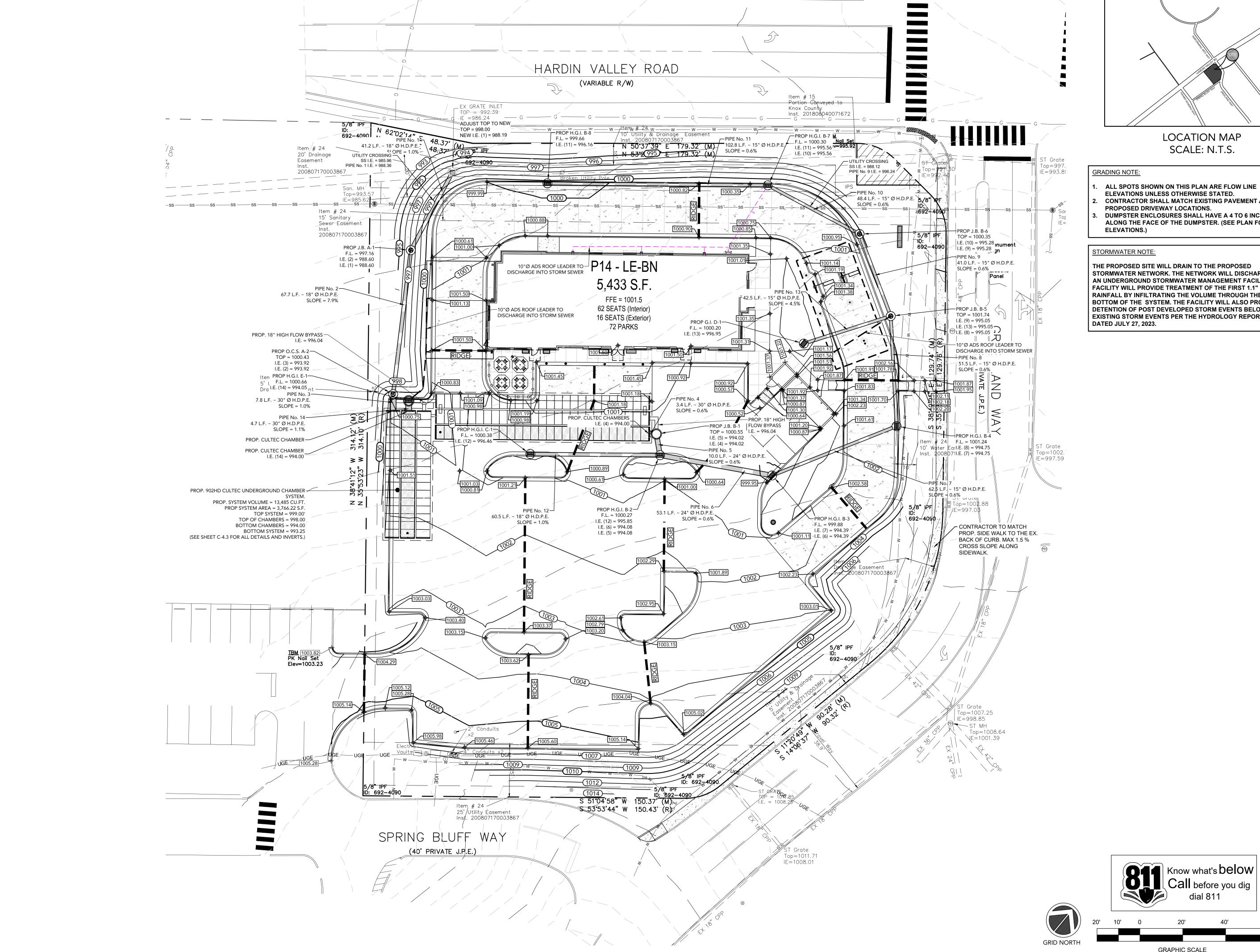
2187 GREENLAND WAY, KNOXVILLE, TN 37932

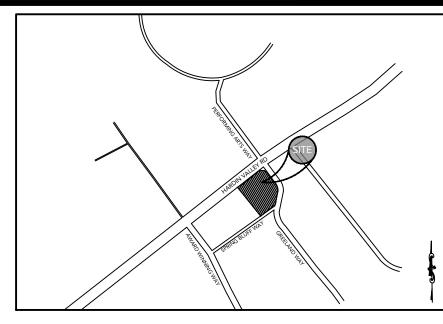
SHEET TITLE

UTILITY PLAN

REVISION 4-2023

Job No. : <u>23043C</u>FA . 05442 Store . 08/28/23





CIVIL ENGINEERING | LANDSCAPE ARCHITECTURE | LAND PLANNING | LAND SURVEYING | MUNICIPAL SERVICES

LOCATION MAP SCALE: N.T.S.

- ALL SPOTS SHOWN ON THIS PLAN ARE FLOW LINE
- CONTRACTOR SHALL MATCH EXISTING PAVEMENT AT
- DUMPSTER ENCLOSURES SHALL HAVE A 4 TO 6 INCH KEY ALONG THE FACE OF THE DUMPSTER. (SEE PLAN FOR

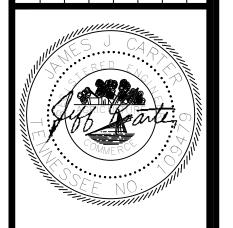
ELEVATIONS.)

THE PROPOSED SITE WILL DRAIN TO THE PROPOSED STORMWATER NETWORK. THE NETWORK WILL DISCHARGE TO AN UNDERGROUND STORMWATER MANAGEMENT FACILITY. THE **FACILITY WILL PROVIDE TREATMENT OF THE FIRST 1.1"** RAINFALL BY INFILTRATING THE VOLUME THROUGH THE BOTTOM OF THE SYSTEM. THE FACILITY WILL ALSO PROVIDE DETENTION OF POST DEVELOPED STORM EVENTS BELOW EXISTING STORM EVENTS PER THE HYDROLOGY REPORT **DATED JULY 27, 2023.**



5200 Buffington Rd. Atlanta Georgia, 30349-2998

REVISION	06/02/2023 INITIAL REVIEW	PCR	07/25/2023 TTCDA SUBMITTAL	08/28/2023 REVISED PER TTCDA COMMENTS	-	
DATE	06/02/2023	06/06/2023 PCR	07/25/2023	08/28/2023	-	





ENGINEERING

BOGART, GA 30622 P: 770.725.1200 F: 770.725.1204

CARTER ENGINEERING 1010 COMMERCE DRIVE,

www.carterengineering.com HARDIN VALLEY FSU STORE # 05442 9-B-23-TOB / 9-C-23-DF

2187 GREENLAND WAY,

KNOXVILLE, TN 37932 SHEET TITLE

GRADING & DRAINAGE PLAN

REVISION 4-2023

Job No. : <u>23043</u>CFA . 05442

08/28/23

Date

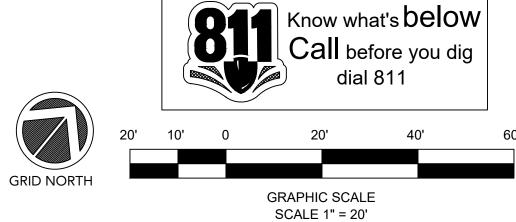
Call before you dig

GRAPHIC SCALE SCALE 1" = 20'

Station

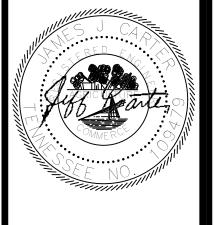
0+00

Station



5200 Buffington Rd. Atlanta Georgia, 30349—2998

REVISION BLOCK:	REVISION	06/02/2023 INITIAL REVIEW	PCR	07/25/2023 TTCDA SUBMITTAL	08/28/2023 REVISED PER TTCDA COMMENTS	-	
	DATE	06/02/2023	06/06/2023 PCR	07/25/2023	08/28/2023	•	
	REV.#	Α	В	C	D	1	



CARTER ENGINEERING

CARTER ENGINEERING 1010 COMMERCE DRIVE, BOGART, GA 30622

P: 770.725.1200 F: 770.725.1204

www.carterengineering.com HARDIN VALLEY FSU STORE # 05442 9-B-23-TOB / 9-C-23-DP

> 2187 GREENLAND WAY, KNOXVILLE, TN 37932

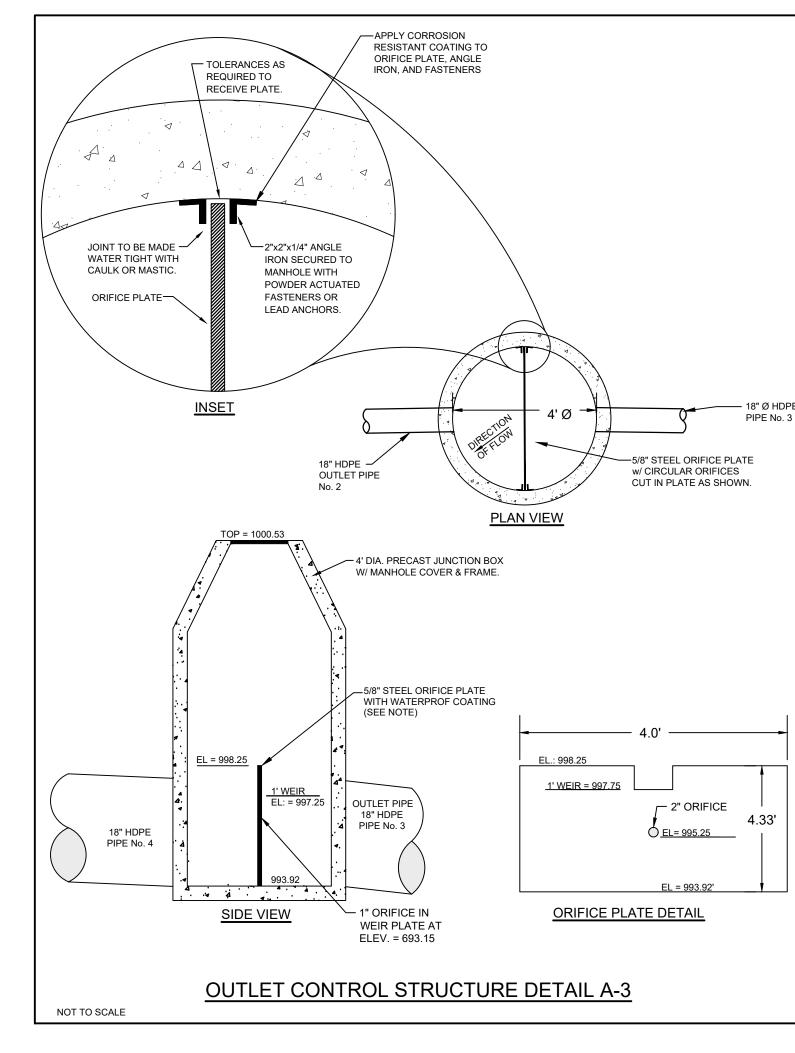
SHEET TITLE

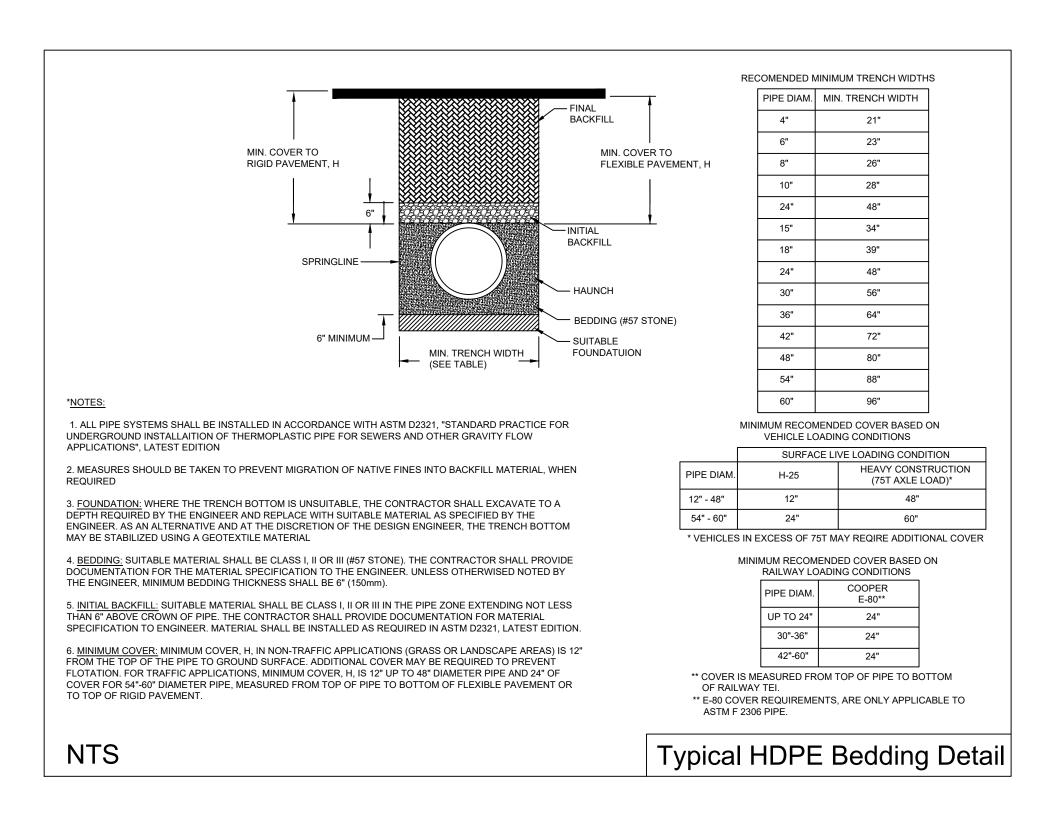
PIPE PROFILES

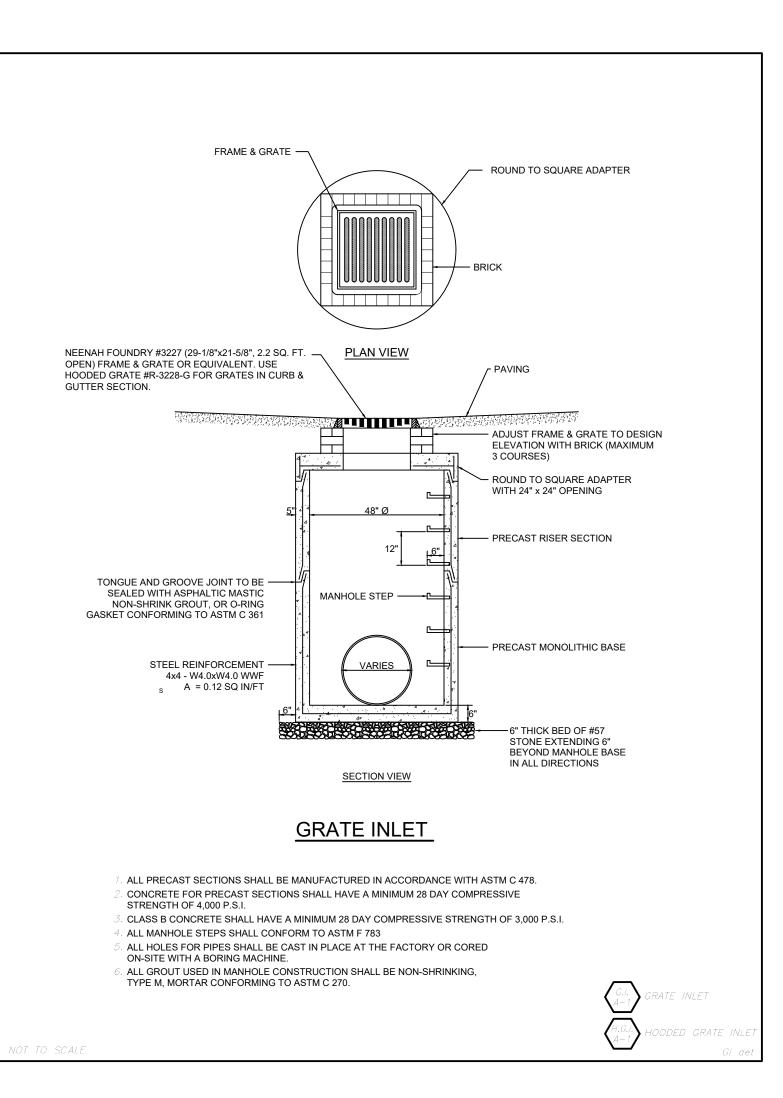
REVISION 4-2023

Job No. : <u>23043C</u>FA

. 05442 Store Store
Date 08/28/23









DATE REVISION BLOCK:

06/02/2023 INITIAL REVIEW

06/06/2023 PCR

07/25/2023 TTCDA SUBMITTAL

08/28/2023 REVISED PER TTCDA COMMENTS

- - -





CARTER ENGINEERING 1010 COMMERCE DRIVE, BOGART, GA 30622

P: 770.725.1200 F: 770.725.1204 www.carterengineering.com

HARDIN VALLEY FSU STORE # 05442 9-B-23-TOB / 9-C-23-DP

2187 GREENLAND WAY, KNOXVILLE, TN 37932

SHEET TITLE

STORMWATER

DETAILS

REVISION 4-2023

Job No. : <u>23043CF</u>A
Store : <u>05442</u>
Date : <u>08/28/23</u>

C-4.2

Chick-fil-A

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

CIVIL ENGINEERING | LANDSCAPE ARCHITECTURE | LAND PLANNING | LAND SURVEYING | MUNICIPAL SERVICES

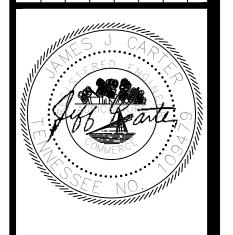
DATE REVISION BLOCK:

06/02/2023 INITIAL REVIEW

06/06/2023 PCR

07/25/2023 TTCDA SUBMITTAL

08/28/2023 REVISED PER TTCDA COMMENTS



CARTER ENGINEERING

CARTER ENGINEERING 1010 COMMERCE DRIVE, BOGART, GA 30622 P: 770.725.1200 F: 770.725.1204

www.carterengineering.com

HARDIN VALLEY FSU
STORE # 05442
9-B-23-TOB / 9-C-23-DP

2187 GREENLAND WAY, KNOXVILLE, TN 37932

SHEET TITLE

CULTEC DETAILS

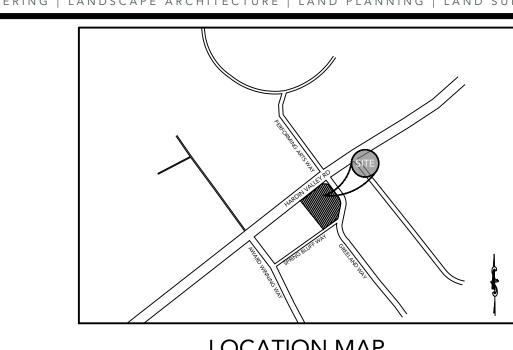
REVISION 4-2023

Job No. : 23043CFA

Job No. : <u>23043CF</u> Store : <u>05442</u> Date : <u>08/28/23</u>

Sheet

C-4.3



LOCATION MAP SCALE: N.T.S.

EROSION CONTROL NOTES:

op = 997.09IE=993.89

ST Grate Top=1002.79

Top=999.08 IE=989.48

5

MU

MU

MU

ST Grate Top=1011.71 IE=1008.01

IĎ: 692–4090

Top=1007.25

Top=1008.64 VE=1001.39

IE=998.85 ST MH

HARDIN VALLEY ROAD

Broken Utility Pole

MU

MU

MU

S 51°04'58" W 150.37' (M) S 53°53'44" W 150.43' (R)

76,244 SF 1.750 AC

EX GRATE INLET TOP = 992.39

E = 986.24 — G

MU

MU

MU

2" Conduits

SPRING BLUFF WAY

(40' PRIVATE J.P.E.)

ΖZ

5/8" IPF ID: 692-4090_

<u>TBM</u> PK Nail Set

Elev=1003.23

53 LF EXISTING CURB — TO BE REMOVED

- DEVELOPER/OWNER: CHICK-FIL-A, INC.,5200 BUFFINGTON RD., ATLANTA GA 30349,(678) 758-4513
 NAME AND PHONE NUMBER OF THE 24-HOUR CONTACT PERSON FOR EROSION, SEDIMENTATION AND POLLUTION CONTROLS
- IS: TODD WILLIAMS (678) 758-4513 3. TOTAL PROJECT AREA = 1.75
- 4. TOTAL DISTURBED AREA = 1.5 AC
- 5. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
- 6. EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION AND SEDIMENT CONTROL,
- 7. SEDIMENT STORAGE MAINTENANCE INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE λ FULL VOLUME.
- 3. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL AT ALL TIMES BE THE RESPONSIBILITY OF THE PROPERTY OWNER.
- TEMPORARY SEEDING. 10. ALL FILL SLOPES SHALL HAVE SILT FENCE PLACED AT THE SLOPE'S TOE.
- 11. CONCENTRATED FLOW AREAS AND ALL SLOPES STEEPER THAN 2.5:1 WITH A HEIGHT OF TEN FEET OR GREATER SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL MATTING OR BLANKET
- 12. THE PROFESSIONAL WHO SEALS THIS PLAN CERTIFIES UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY THE PROFESSIONAL OR THE PROFESSIONAL'S AUTHORIZED AGENT,
- 13.UPON NOTIFICATION AND AUTHORIZATION OF THE OWNER, THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS RESPONSIBLE FOR INSPECTING THE INSTALLATION OF THE BMP'S WITHIN 7 DAYS AFTER INITIAL CONSTRUCTION ACTIVITIES
- 14. THE RECEIVING WATER(S) IS UNNAMED TRIBUTARY TO TOBY CREEK.
- 15. AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE SIGNIFICANT EFFECT ON BMP'S WITH HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL. 16.MAINTENANCE OF ALL EROSION CONTROL MEASURES, WEATHER TEMPORARY OR PERMANENT, SHALL AT ALL TIME BE THE RESPONSIBILITY OF THE OWNER.

TEMPORARY SEDIMENT TRAP A				TEMPORA	RY SEDIME	NT TRAP B
	Contour	Calculated			Contour	Calculated
Elevation	Area	Storage		Elevation	Area	Storage
	(s.f.)	(c.y.)			(s.f.)	(c.y.)
993.00	391	0.00		996.00	391	0.00
994.0	788	21.83		997.0	788	21.83
995.00	1,241	59.41		998.00	1,241	59.41
995.5	1,489	84.69		998.5	1,489	84.69

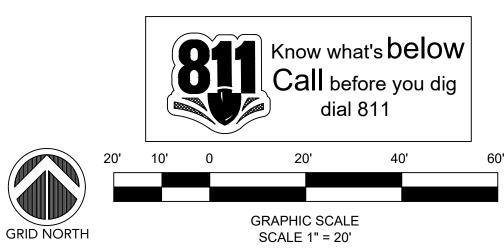
Р A	TEMPORARY SEDIMENT TRAP B					
d		Contour	Calculated			
	Elevation	Area	Storage			
		(s.f.)	(c.y.)			
	996.00	391	0.00			
	997.0	788	21.83			
	998.00	1,241	59.41			
	998.5	1,489	84.69			

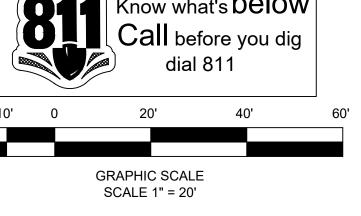
MU	TEMPORARY MULCHING
SOD	SOD - PERMANENT GROUND COVER
МВ	MATTING BLANKET
(IP	NLET PROTECTION
IP-B	SILT SACK
PS	PERMANENT SEEDING
CE	CONSTRUCTION ENTRANCE
SF	SILT FENCE
SD3	TEMPORARY SEDIMENT TRAP

LEGEND

LIMITS OF DISTURBANCE NOTE: * INLET SEDIMENT TRAP Sd2-F SHALL BE USED IN NON PAVED ARES UNTIL PAVING INS COMPLETE. WHILE Sd2-SS SHALL BE USED IN AREAS THAT IS PAVED.

TEMPORARY DIVERSION

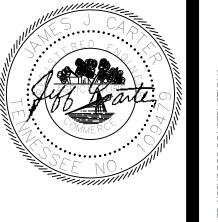






30349-2998

NEVISION BEOCK:	REVISION	06/02/2023 INITIAL REVIEW	PCR	07/25/2023 TTCDA SUBMITTAL	08/28/2023 REVISED PER TTCDA COMMENTS		-
	DATE	06/02/2023	06/06/2023 PCR	07/25/2023	08/28/2023	-	-
	REV.#	А	В	Э	Q	-	-





ENGINEERING

1010 COMMERCE DRIVE, BOGART, GA 30622

CARTER ENGINEERING

P: 770.725.1200 F: 770.725.1204 www.carterengineering.com

HARDIN VALLEY FSU STORE # 05442 9-B-23-TOB / 9-C-23-DP

2187 GREENLAND WAY, KNOXVILLE, TN 37932

SHEET TITLE

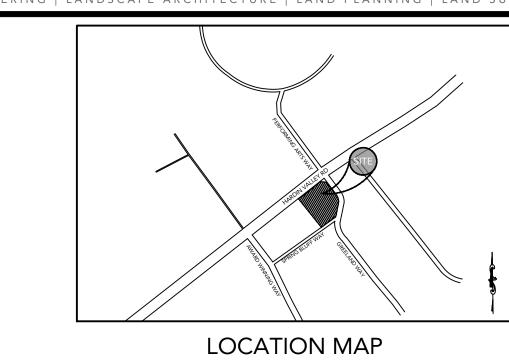
E&SC PLAN PHASE I

REVISION 4-2023

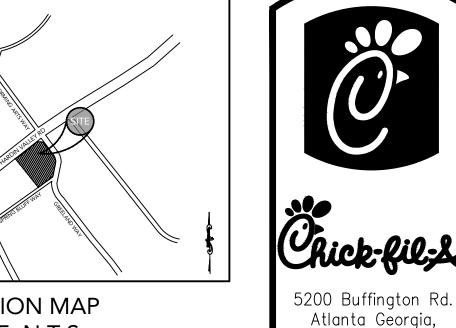
Job No. : <u>23043CF</u>A

Date

. 05442 . 08/28/23

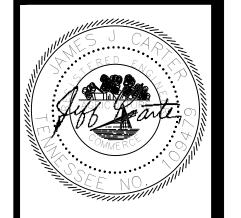


SCALE: N.T.S.



	REVISION BLOCK:	REVISION	06/02/2023 INITIAL REVIEW	3 PCR	07/25/2023 TTCDA SUBMITTAL	08/28/2023 REVISED PER TTCDA COMMENTS	1	1
		DATE	06/02/202	06/06/2023 PCR	07/25/202	08/28/202	-	1
1								

30349-2998



REV.



CARTER ENGINEERING

CARTER ENGINEERING 1010 COMMERCE DRIVE. BOGART, GA 30622 P: 770.725.1200

F: 770.725.1204 www.carterengineering.com HARDIN VALLEY FSU STORE # 05442

9-B-23-TOB / 9-C-23-DP

2187 GREENLAND WAY, KNOXVILLE, TN 37932

SHEET TITLE

E&SC PLAN PHASE II

REVISION 4-2023

Job No. : <u>23043C</u>FA . 05442 . 08/28/23 Date

Sheet

SD3 TEMPORARY SEDIMENT TRAP TEMPORARY DIVERSION LIMITS OF DISTURBANCE NOTE: * INLET SEDIMENT TRAP Sd2-F SHALL BE USED IN NON PAVED ARES UNTIL PAVING INS COMPLETE. WHILE Sd2-SS SHALL BE USED IN AREAS THAT IS PAVED. Know what's below Call before you dig **GRAPHIC SCALE GRID NORTH** SCALE 1" = 20'

LEGEND

MU TEMPORARY MULCHING

SOD - PERMANENT

INLET PROTECTION

PERMANENT SEEDING

CONSTRUCTION ENTRANCE

SOD - PERMANEN'
GROUND COVER

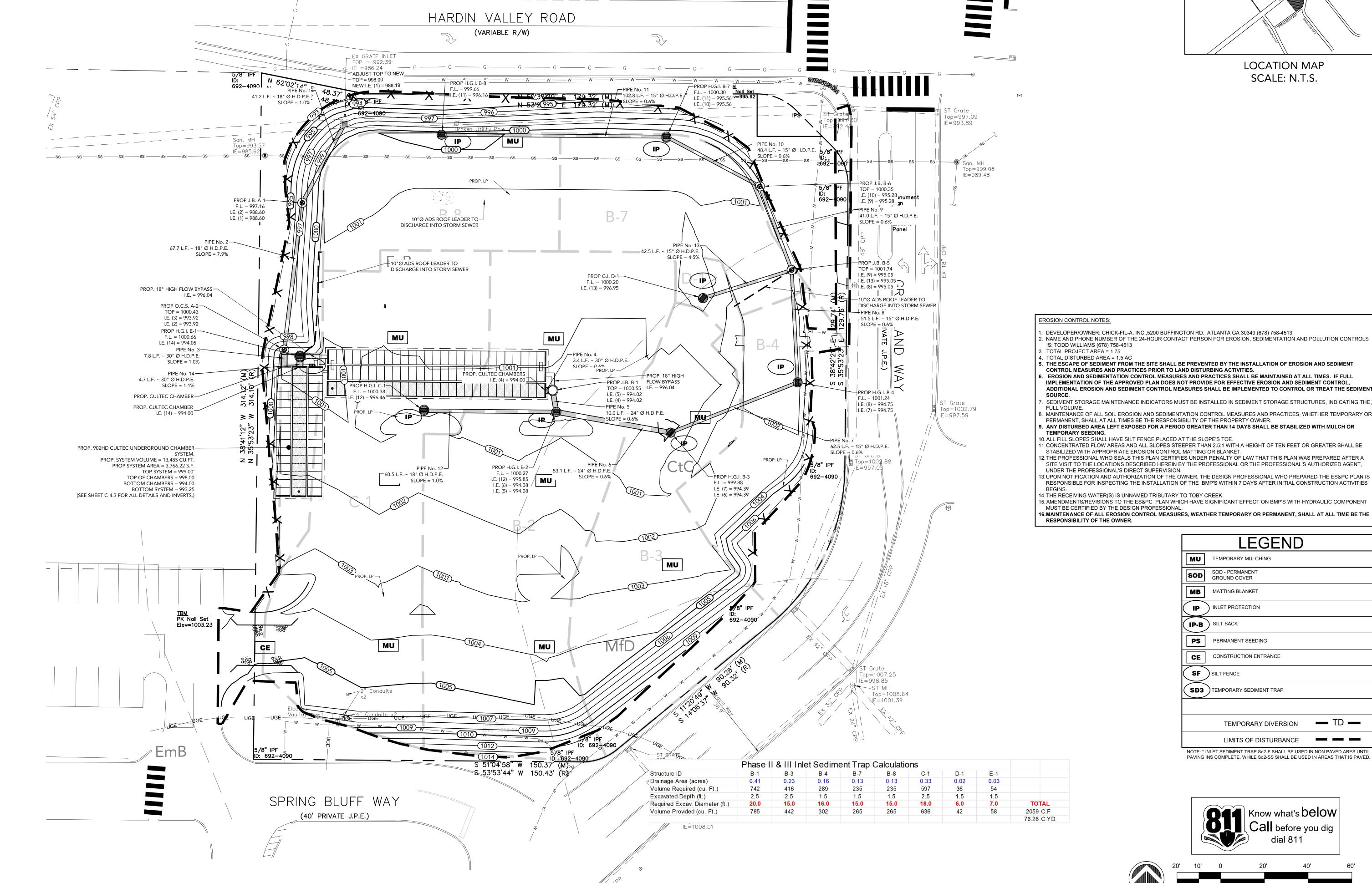
(IP-B)

CE

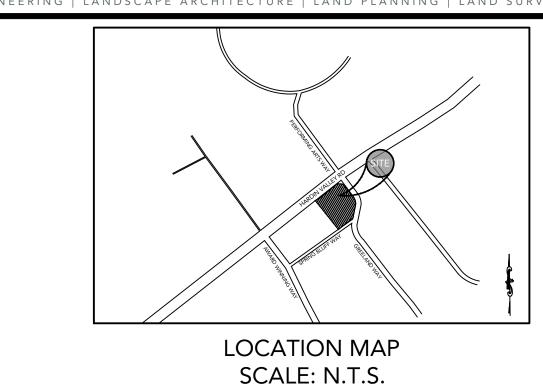
SF SILT FENCE

MB MATTING BLANKET

SILT SACK



5



LEGEND

MU TEMPORARY MULCHING

SOD - PERMANENT

MATTING BLANKET

SILT SACK

) SILT FENCE

INLET PROTECTION

PERMANENT SEEDING

CONSTRUCTION ENTRANCE

TEMPORARY SEDIMENT TRAP

TEMPORARY DIVERSION

LIMITS OF DISTURBANCE

NOTE: * INLET SEDIMENT TRAP Sd2-F SHALL BE USED IN NON PAVED ARES UNTIL

Know what's below Call before you dig

GRAPHIC SCALE

SCALE 1" = 20'

PAVING INS COMPLETE. WHILE Sd2-SS SHALL BE USED IN AREAS THAT IS PAVED.

SOD - PERMANEN'
GROUND COVER

МВ

(IP-B)

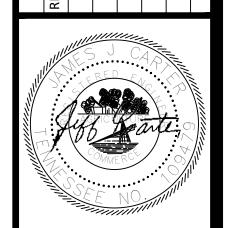
CE

SF

SD3

GRID NORTH





ENGINEERING

CARTER ENGINEERING 1010 COMMERCE DRIVE. BOGART, GA 30622

F: 770.725.1204 www.carterengineering.com HARDIN VALLEY FSU STORE # 05442

P: 770.725.1200

9-B-23-TOB / 9-C-23-DP

2187 GREENLAND WAY, KNOXVILLE, TN 37932

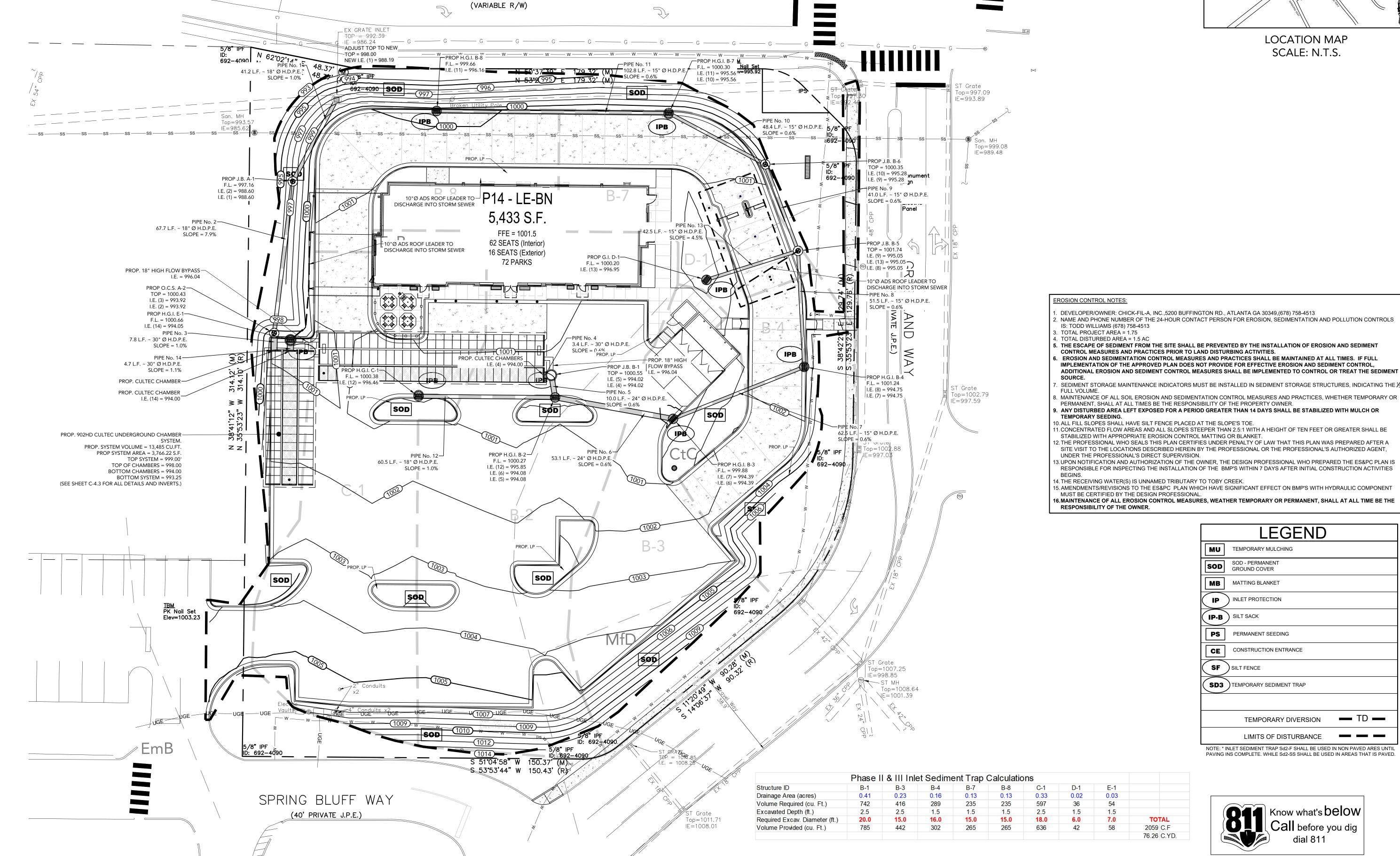
SHEET TITLE

E&SC PLAN PHASE III

REVISION 4-2023

Job No. : <u>23043C</u>FA 05442 . 08/28/23 Date

Sheet



HARDIN VALLEY ROAD

5

Chapter 7

Percentages 80% 15% 5% 55% 20% 15% 10% 70%

April 15 to August 15 30% Annual Lespedeza Kentucky 31 Fescue 70% August 1 to December 1 English Rye 20% White Clover 10% Kentucky 31 Fescue 70% February 1 to December 1 Crown Vetch 25% English Rye 5%

Permanent Cover Seeding Mixtures

Grass Seed

Kentucky 31 Fescue

Korean Lespedeza

English Rye

Kentucky 31 Fescue

English Rye

Korean Lespedeza

German Millet

Bermudagrass (hulled)

Source: TDOT Standard Specifications

Topsoil: Topsoil should be friable and loamy, free of debris, objectionable weeds and stones, and contain no toxic substances that may be

Seeding Dates

February 1 to July 1

June 1 to August 15

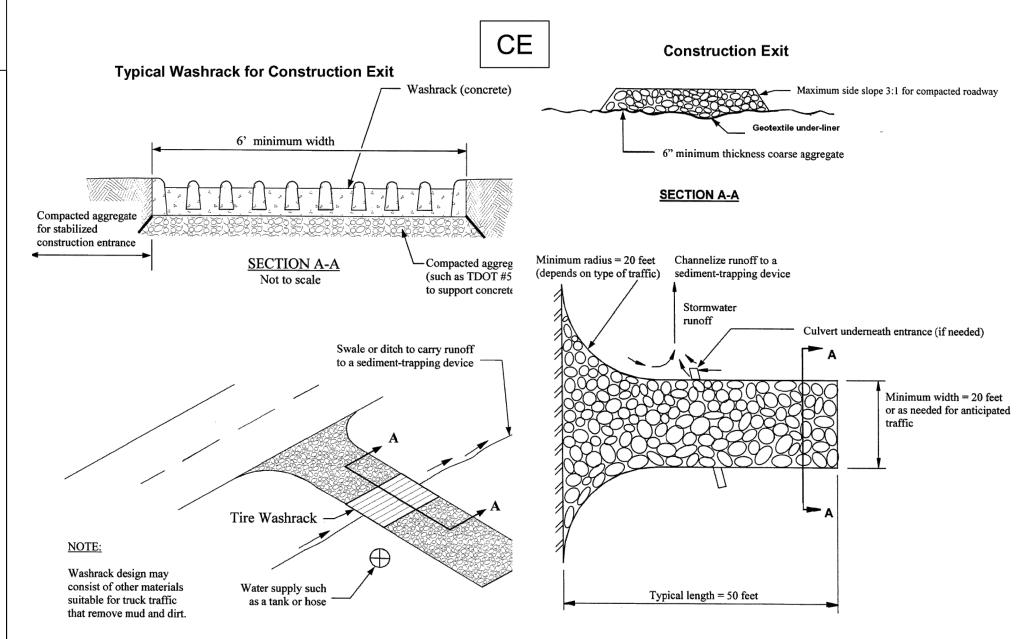
harmful to plant growth. When replacing topsoil on disturbed areas, maintain needed erosion TS on disturbed areas, maintain needed erosion and sediment control practices such as diversions, berms, sediment basins, etc. Grades containing these structures should be maintained after the topsoil is applied.

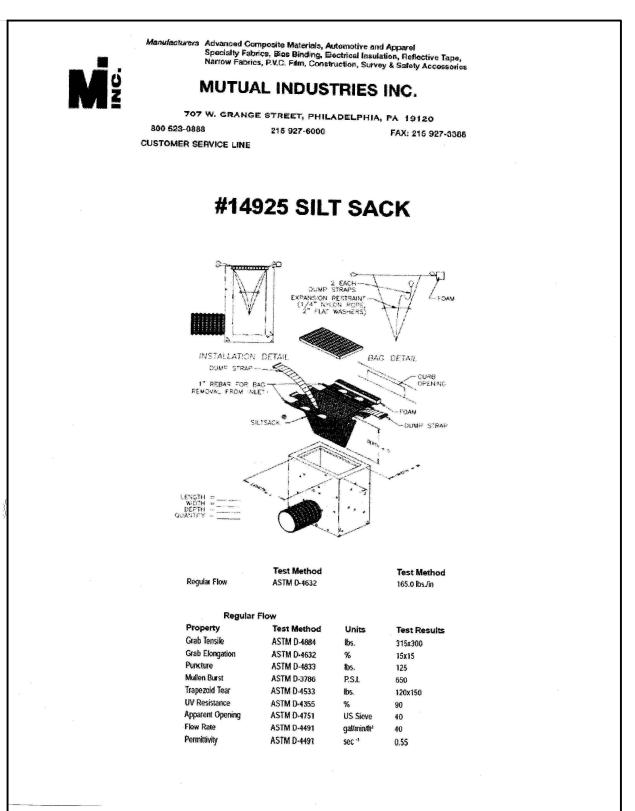
> Topsoil should be handled only when it is dry enough to work without damaging soil structure. A uniform application of 5 inches (unsettled) is recommended, but may be adjusted at the discretion of the engineer or landscape architect. See Table 2 for additional information about the volume of topsoil to achieve various

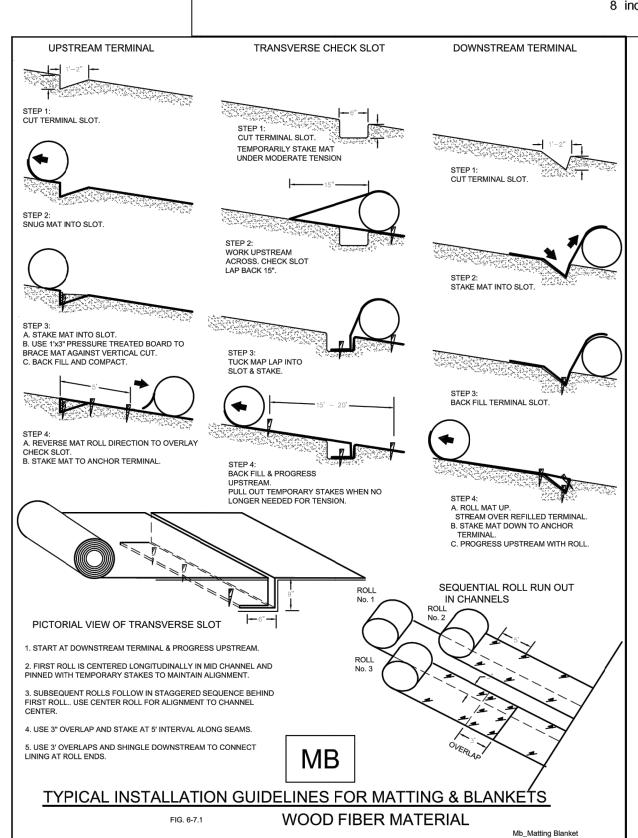
Seedbed Preparation: When conventional seeding is to be used, topsoil should be applied to any area where the disturbance results in subsoil being the final grade surface.

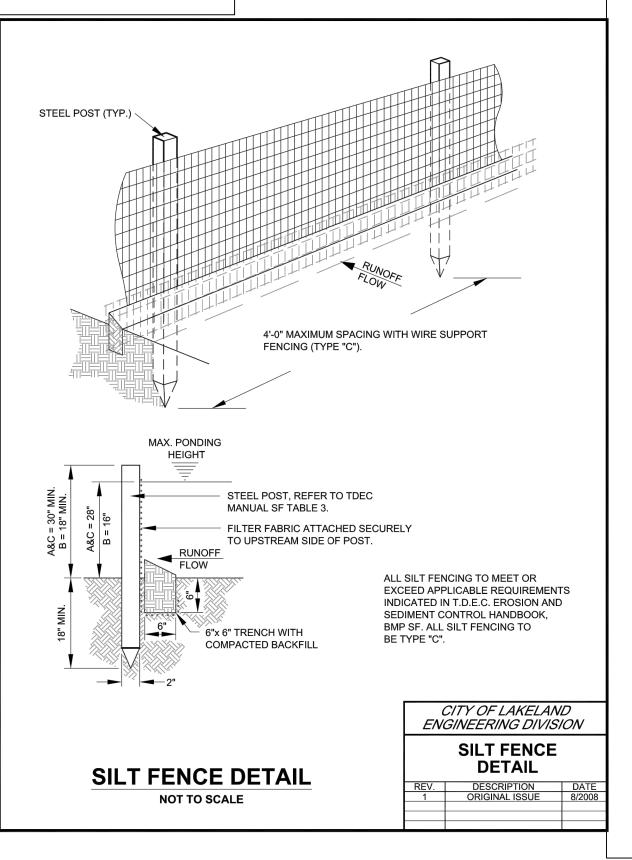
Broadcast plantings

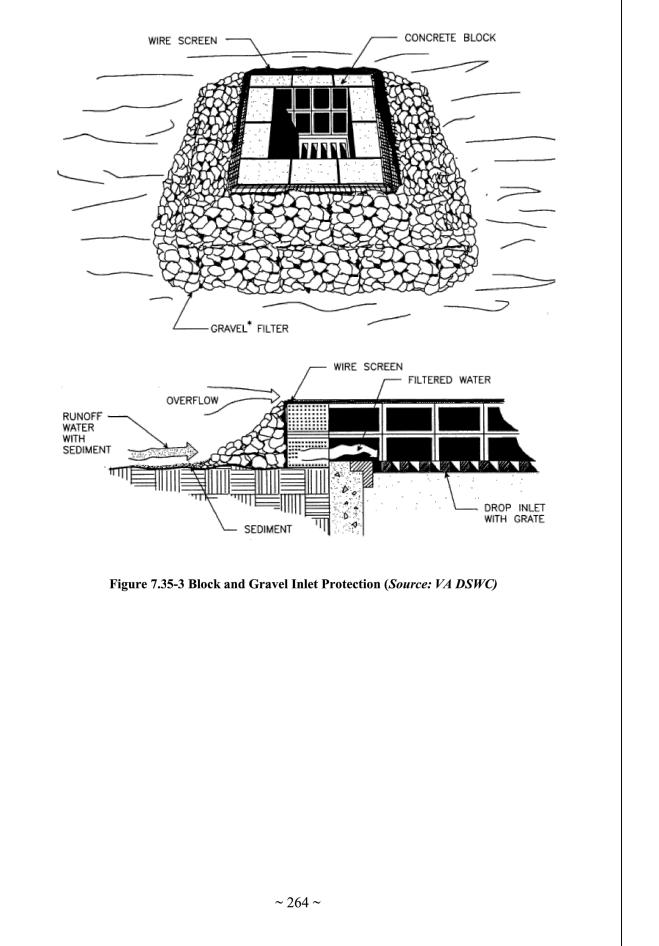
- 1. Seedbed preparation may not be required where hydraulic seeding equipment is to be used.
- Tillage, at a minimum, shall adequately loosen the soil to a depth of 4 to 6 inches; alleviate compaction; incorporate topsoil, lime, and fertilizer; smooth and firm the soil; allow for the proper placement of seed, sprigs, or plants; and allow for the anchoring of straw or hay mulch if a crimper is to be
- Tillage may be done with any suitable equipment.
- 4. Tillage should be done parallel to the contour where feasible.
- 5. On slopes too steep for the safe operation of tillage equipment, the soil surface shall be pitted or trenched across the slope with appropriate hand tools to provide consecutive beds, 6 to 8 inches apart, in which seed may







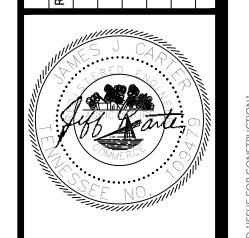




Management Practices

Atlanta Georgia,

30349-2998





ENGINEERING

BOGART, GA 30622 P: 770.725.1200 F: 770.725.1204

CARTER ENGINEERING

1010 COMMERCE DRIVE,

www.carterengineering.com HARDIN VALLEY FSU STORE # 05442 9-B-23-TOB / 9-C-23-DP

2187 GREENLAND WAY,

KNOXVILLE, TN 37932 SHEET TITLE

DETAILS

EROSION

REVISION 4-2023

Job No. : <u>23043C</u>FA . 05442 . 08/28/23 Date

- PARKING STALL DIMENSIONING SHALL BE IN ACCORDANCE WITH APPLICABLE GOVERNING AUTHORITY'S AND ADA STANDARDS AND IF

 2. SURFACES SHOULD BE CLEAN, DRY, AND FREE FROM LOOSE OR PEELING PAINT. REMOVE ALL OIL, DUST, GREASE, DIRT AND OTHER FOREIGN DIFFERENT THAN THIS DETAIL SHALL BE THE DIMENSIONING SHOWN MATERIAL TO ENSURE ADEQUATE ADHESION. DO NOT APPLY WHEN AIR OR ON THE SITE LAYOUT PLAN.
- SURFACE TEMPERATURES ARE BELOW 40° F. 3. GENERAL CONTRACTOR SHALL REFER TO CHICK-FIL-A PARKING LOT APPLY SHERWIN-WILLIAMS SETFAST PREMIUM ALKYD ZONE MARKING PAIN STRIPING SPECIFICATIONS A300 WHITE OR A303 YELLOW USING EITHER AIRLESS OR CONVENTIONAL 4. CONTRACTOR SHALL USE 4" WIDE WHITE REFLECTIVE PAINT FOR LINE STRIPING EQUIPMENT. USE THE FOLLOWING SETTING AS A
- STRIPING ON ASPHALT PARKING LOTS 5. CONTRACTOR SHALL USE 4" WIDE YELLOW REFLECTIVE PAINT FOR STRIPING ON CONCRETE PARKING LOTS. 6. NO WHEEL STOPS TO BE INSTALLED WHEN PARKING IS ADJACENT
- 7. ADA SIGNS IN BOLLARDS AND BOLLARDS SHALL BE INSTALLED WHEN PARKING IS ADJACENT TO FLUSH CURB OR A RAMP.

5B STANDARD PARKING STALL

AIRLESS • PRESSURE HOSE FILTER REDUCTION

• ATOMIZATION PRESSURE 45-80 PSI

CONVENTIONAL GUN

AIR NOZZLE

FLUID NOZZLE

FLUID PRESSURE

TIME OF APPLICATION.

60 MESH ONLY IF NECESSARY, UP TO1PT/GAL VM&P NAPTHA R1K3 BLINKS 21 (BLEEDER) OR EQUIVALENT

GUIDE-ACTUAL SETTINGS DEPEND ON ATMOSPHERIC CONDITIONS AT THE

1800-2700 PSI

0.015"-0.017"

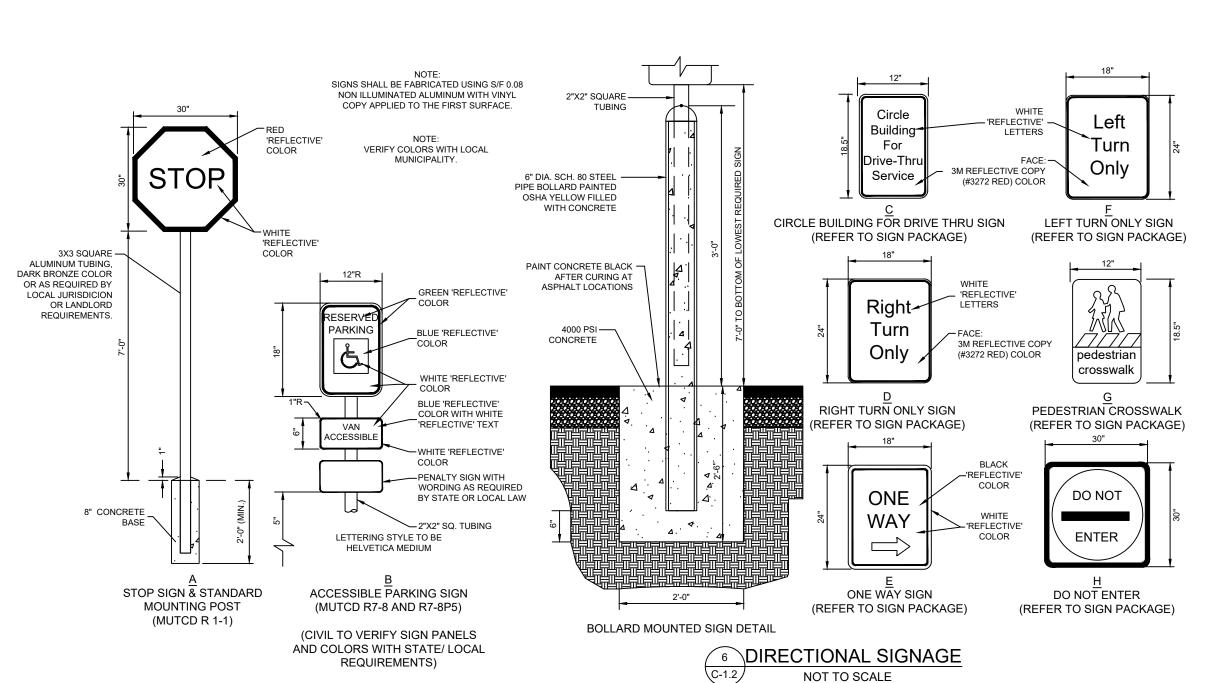
 REDUCTION ONLY IF NECESSARY, UP TO 1 PT/GAL VM&P NAPTHA R1K3

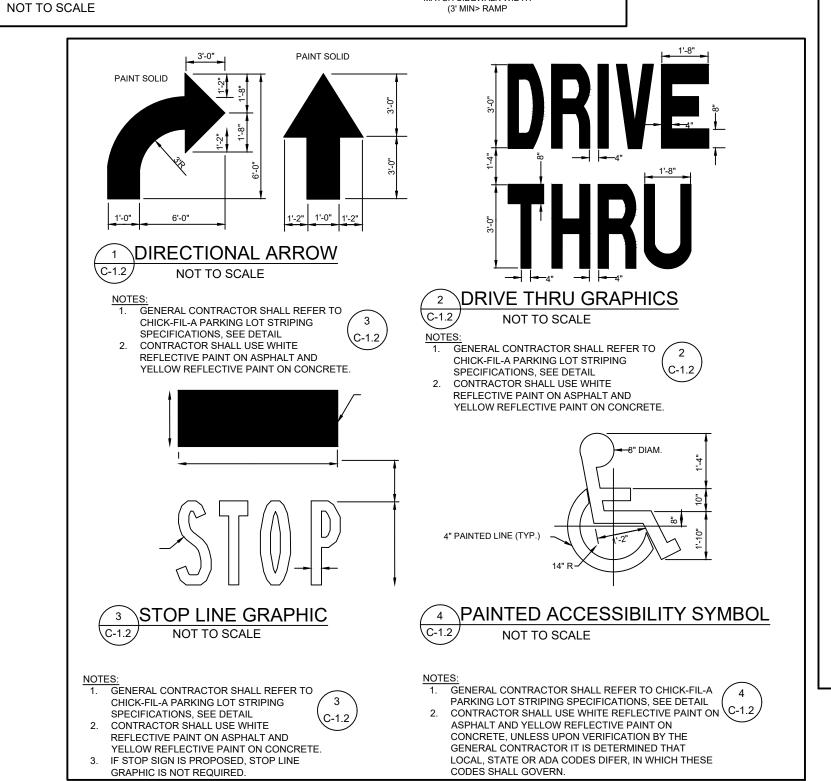
40-70 PSI

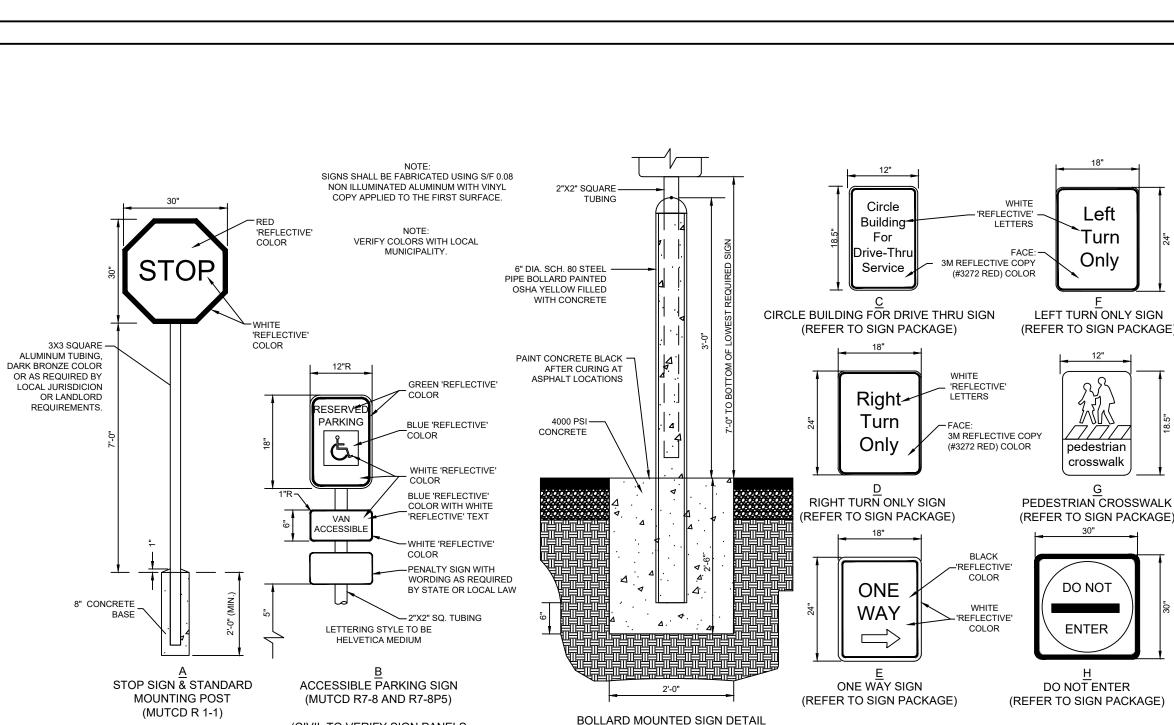
 MIX PAINT THOROUGHLY BY BOXING, STIRRING, OR POWER AGITATION BEFORE USE. APPLY 15 MILS WET TO ACHIEVE A SPEED RATE OF 400-500 LINEAL FEET OF STANDARD 4' STRIPE PER GALLON. APPLIED AT THIS RATE A 70 DEGREES F AND 50% RELATIVE HUMIDITY, PAINT WILL DRY WITH NO TRAFFIC PICKUP AFTER 20 MINUTES. GENERAL CONTRACTOR TO RE-STRIPE THE LOT 45 DAYS AFTER OPENING.

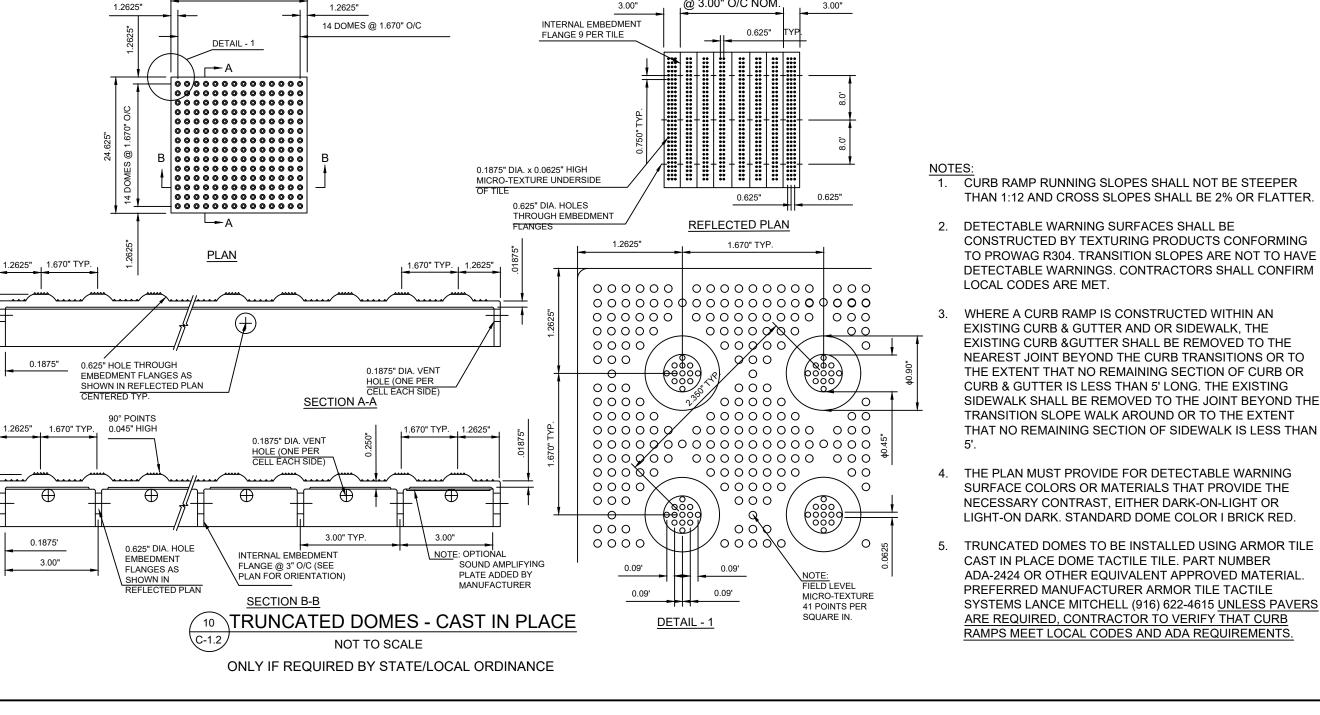
MATCH SIDEWALK WIDTH

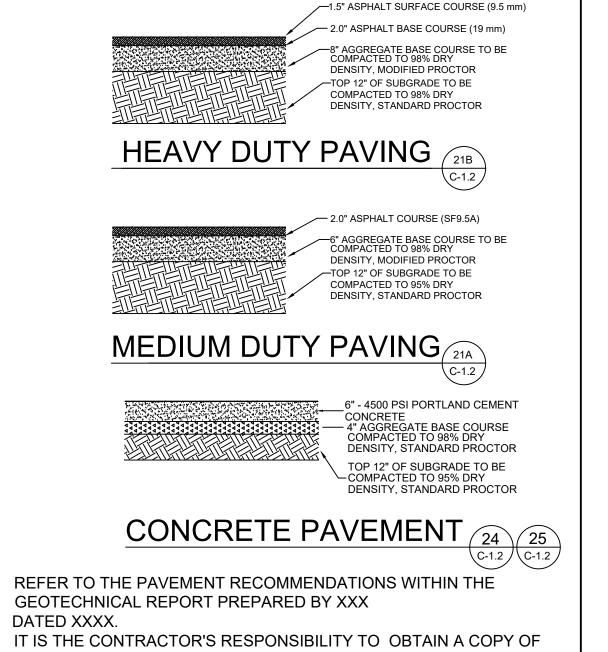
8 SPACES OUT TO OUT @ 3.00" O/C NOM. 14 DOMES @ 1.670" O/C FLANGE 9 PER TILE -- A 0.1875" DIA. x 0.0625" HIGH MICRO-TEXTURE UNDERSIDE 00000000000000 0.625" -00000000000000 0.625" DIA. HOLES THROUGH EMBEDMEN REFLECTED PLAN 1.670" TYP. 1.2625" , 1.670" TYP 0000000000000 000000000000000**0**0**00** 000000 000000000 000 00000 000000000 0000/ ∖009∕00X 000 0.1875" 0.625" HOLE THROUGH 0.1875" DIA. VENT EMBEDMENT FLANGES AS SHOWN IN REFLECTED PLAN 000 000 SECTION A-A 0000 ∥ 00000 \ 00000 000000 1.2625" 1.670" TYP. 0.045" HIGH 000009/ 000000000 000 0.1875" DIA. VENT 00000/0000000000000000 000,0/00 000000000 000 3 0000000 0000× <u>\ 00000/</u> 000 000 000 000 3.00" TYP. 0000 ′0000\(0.625" DIA. HOLE INTERNAL EMBEDMENT 3.00" FLANGE @ 3" O/C (SEE PLAN FOR ORIENTATION) SOUND AMPLIFYING FLANGES AS MANUFACTURER 0.09' MICRO-TEXTURE SECTION B-B 41 POINTS PER SQUARE IN. FRUNCATED DOMES - CAST IN PLACE DETAIL - 1







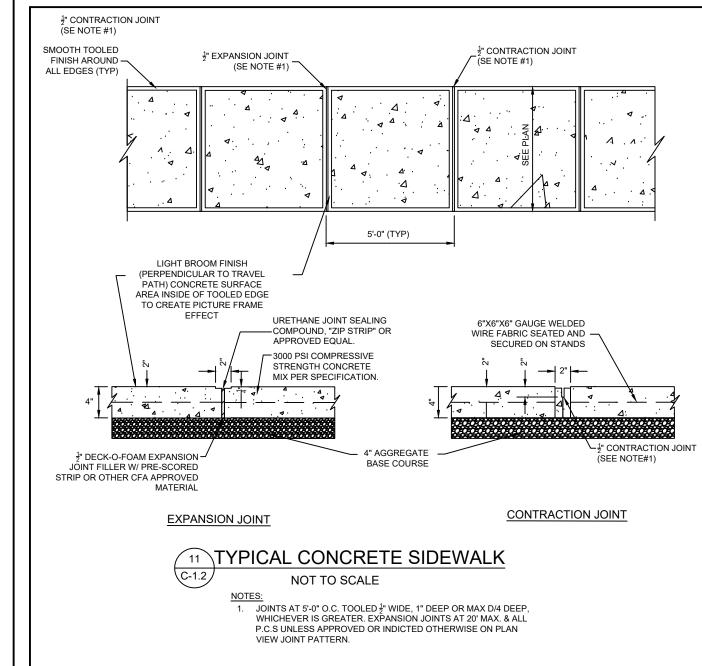


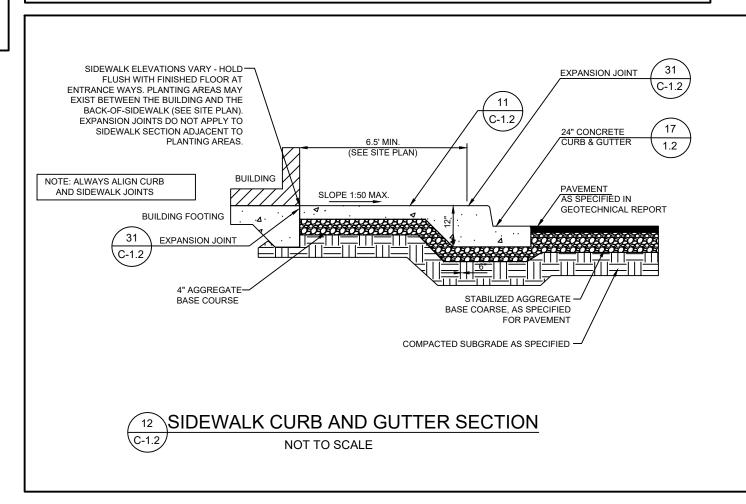


CIVIL ENGINEERING | LANDSCAPE ARCHITECTURE | LAND PLANNING | LAND SURVEYING | MUNICIPAL SERVICES

THE GEOTECHNICAL REPORT FROM THE OWNER PRIOR TO CONSTRUCTION AND REVIEW THE RECOMMENDATIONS THOROUGHLY.

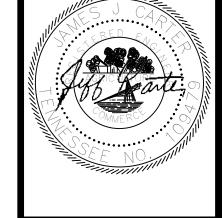
ALL SUBBASE, CRUSHED STONE, AND ASPHALTIC LAYERS TO BE COMPACTED PER GDOT STANDARDS.







Atlanta Georgia, 30349-2998



ENGINEERING CARTER ENGINEERING

BOGART, GA 30622 P: 770.725.1200 F: 770.725.1204 www.carterengineering.com

IARDIN VALLEY FSU TORE # 05442 9-B-23-TOB / 9-C-23-DP

2187 GREENLAND WAY, KNOXVILLE, TN 37932

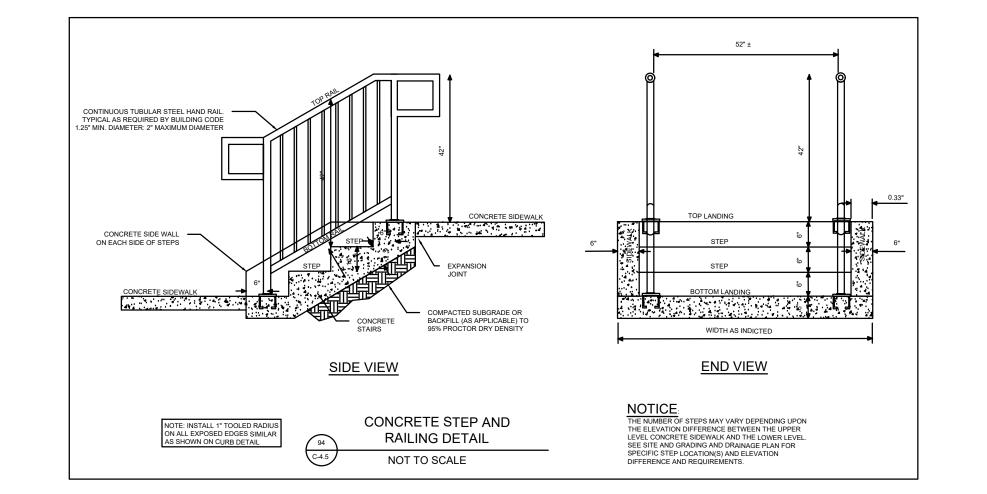
SHEET TITLE STANDARD

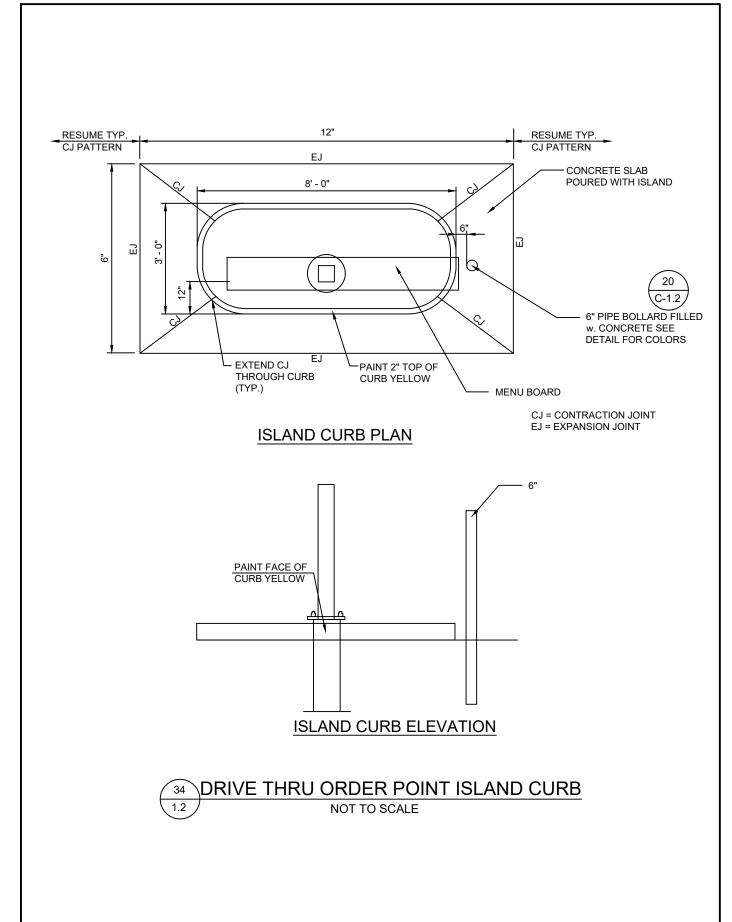
DETAILS I

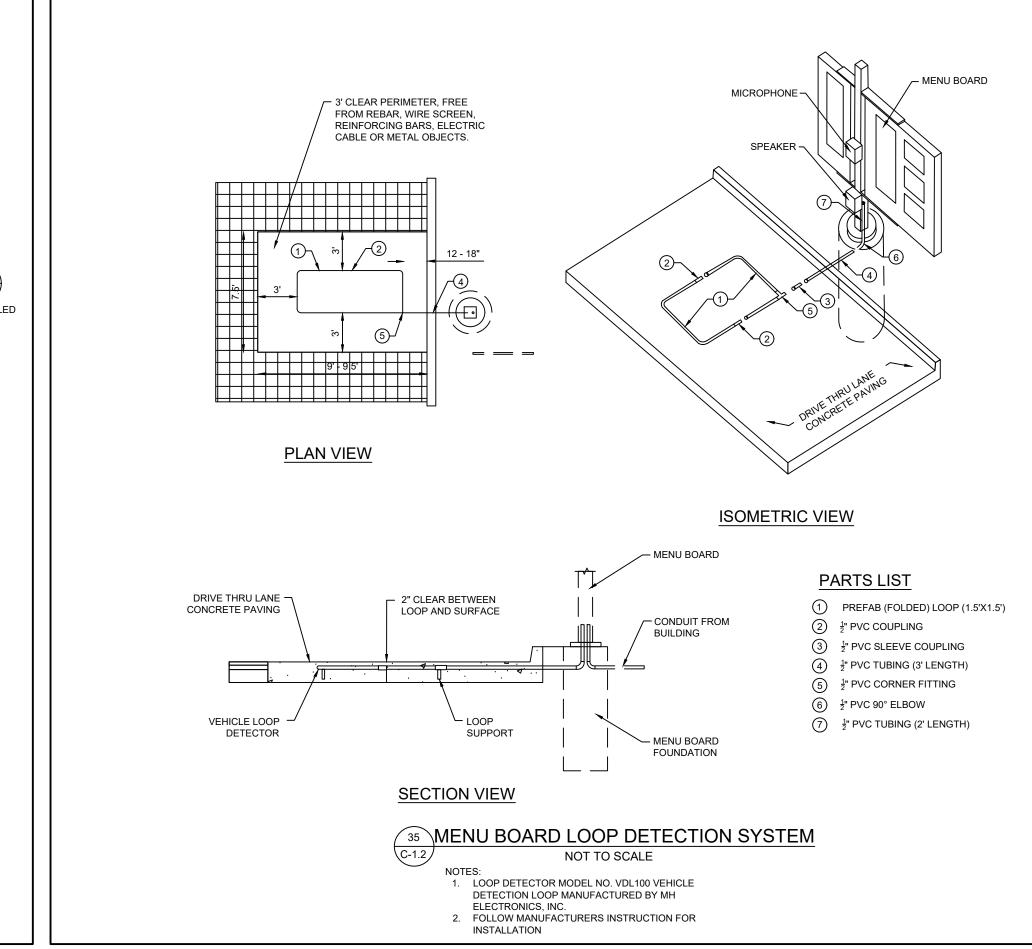
REVISION 4-2023

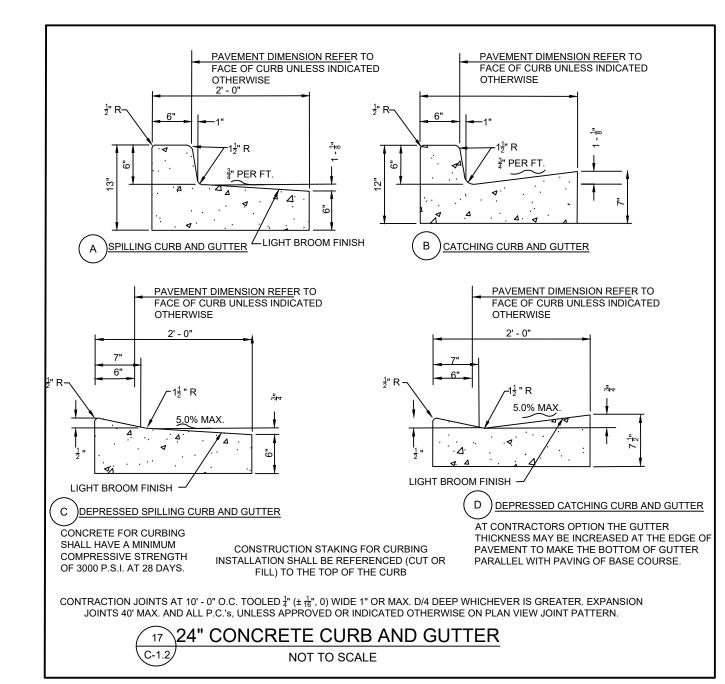
Job No. : <u>2304</u>3CFA

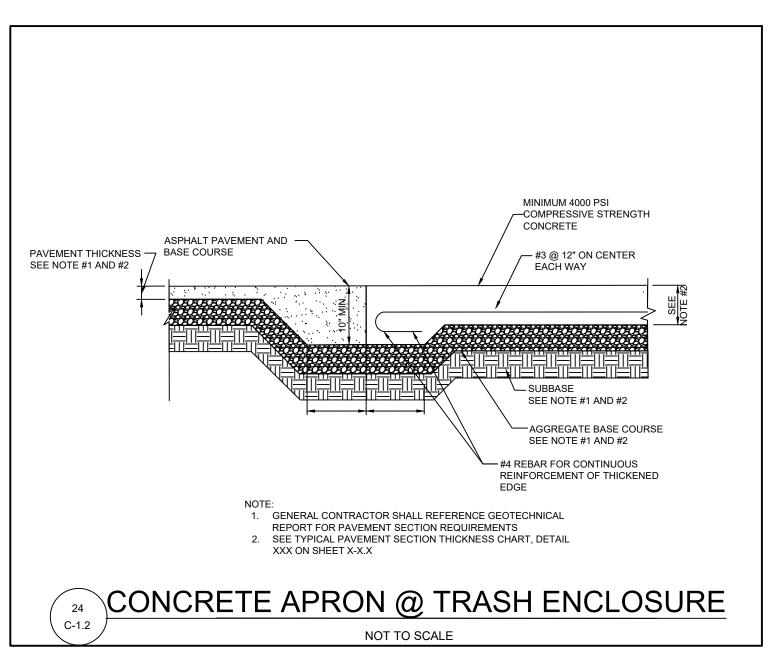
05442 Store 08/28/23 Date

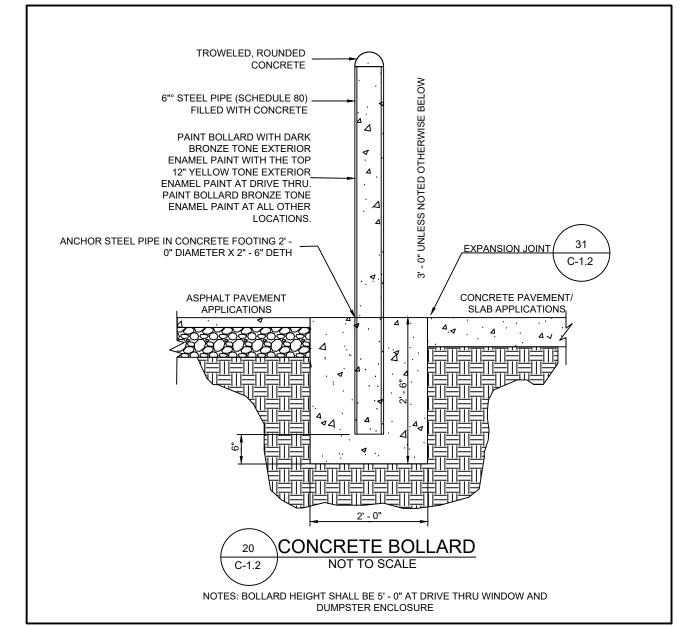


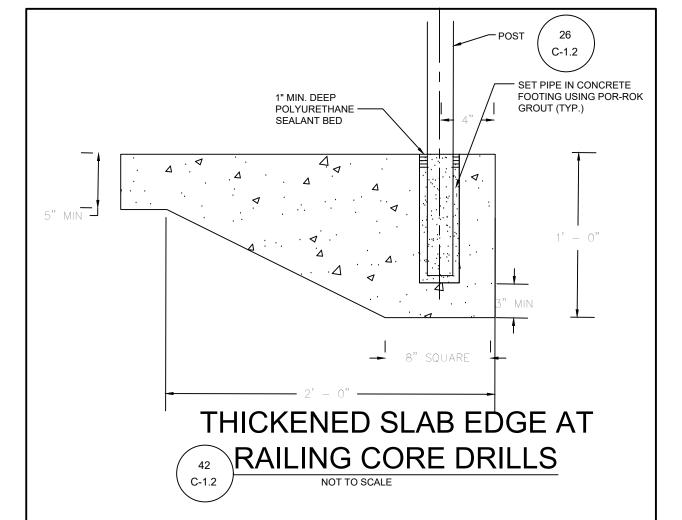


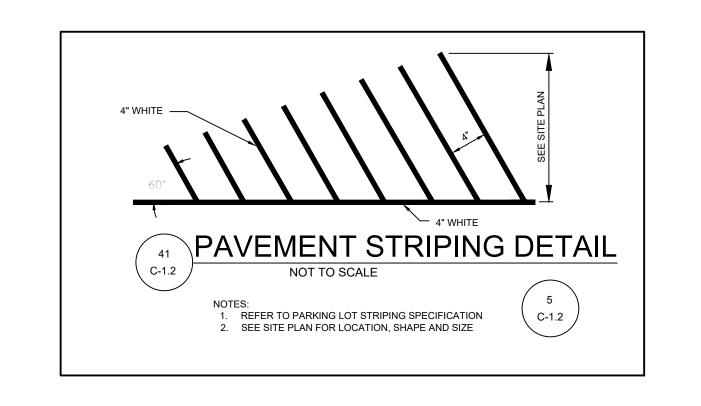


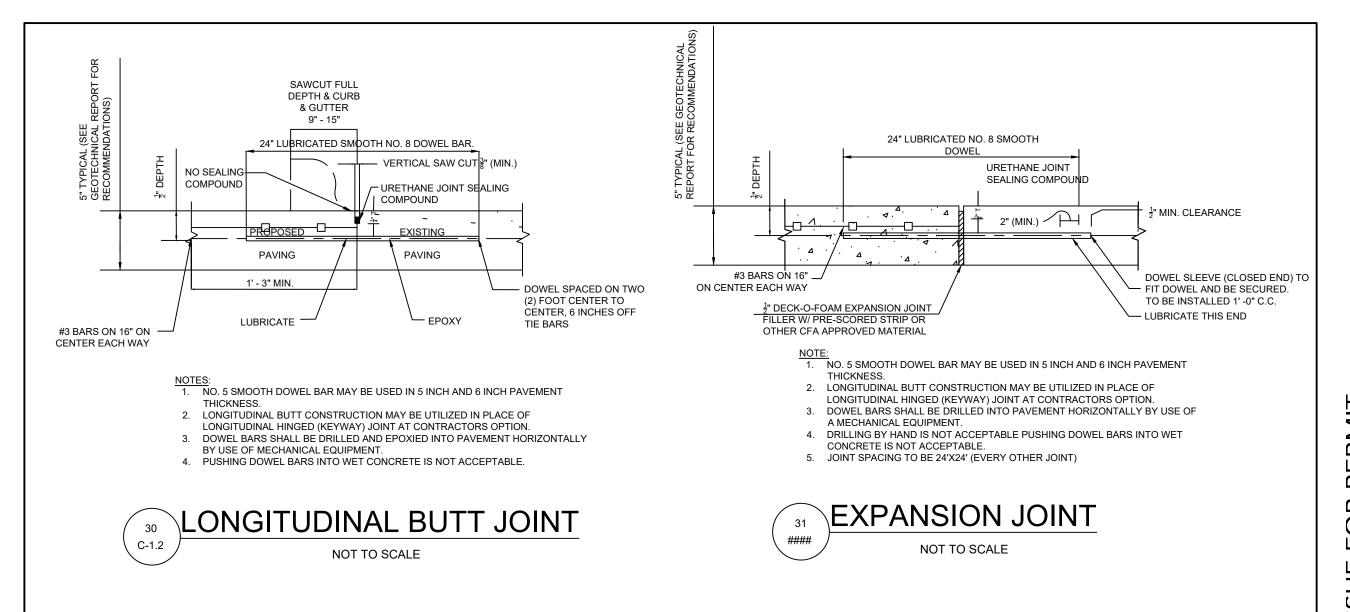






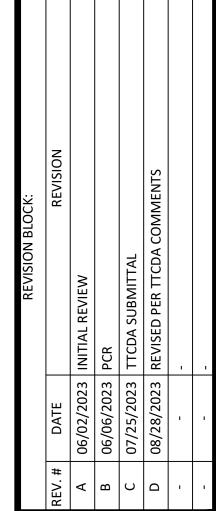


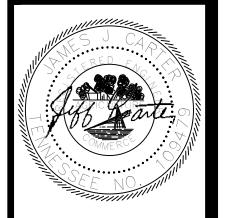






Atlanta Georgia, 30349-2998





CARTER

ENGINEERING CARTER ENGINEERING 1010 COMMERCE DRIVE.

BOGART, GA 30622 P: 770.725.1200 F: 770.725.1204

www.carterengineering.com HARDIN VALLEY FSU STORE # 05442 9-B-23-TOB / 9-C-23-DP

2187 GREENLAND WAY,

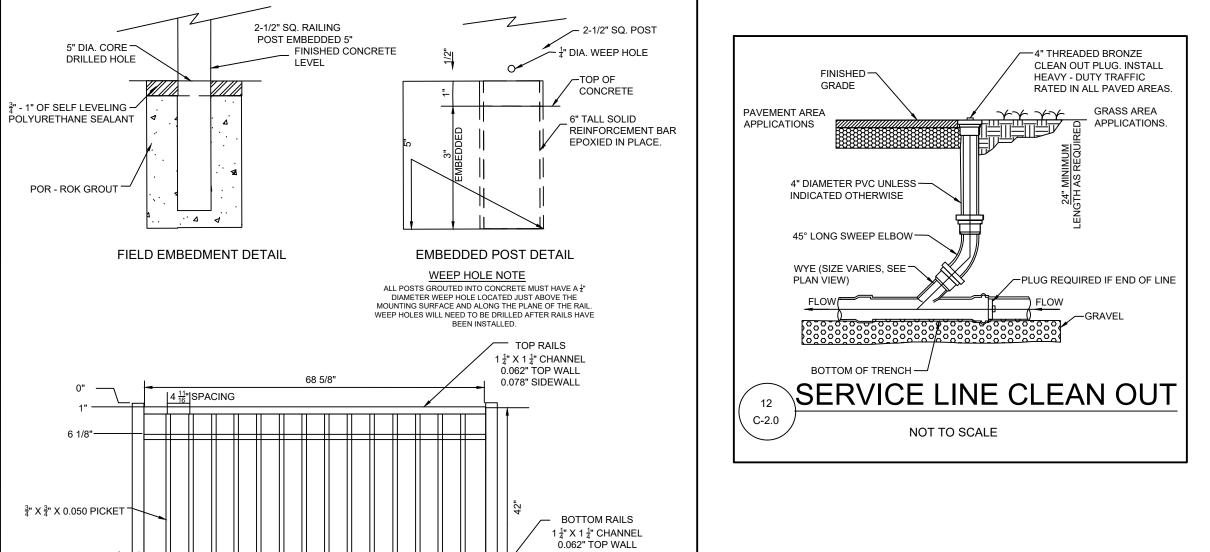
KNOXVILLE, TN 37932 SHEET TITLE

STANDARD **DETAILS II**

REVISION 4-2023

Job No. : 23043CFA 05442

. 08/28/23 Date



0.078" SIDEWALL

- SET PIPE IN CONCRETE

FOOTING USING SUPER

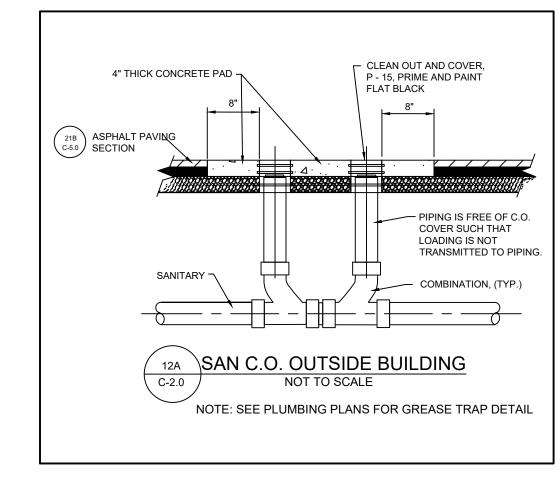
1" MIN. DEEP POLYURETHANE SEALANT BED

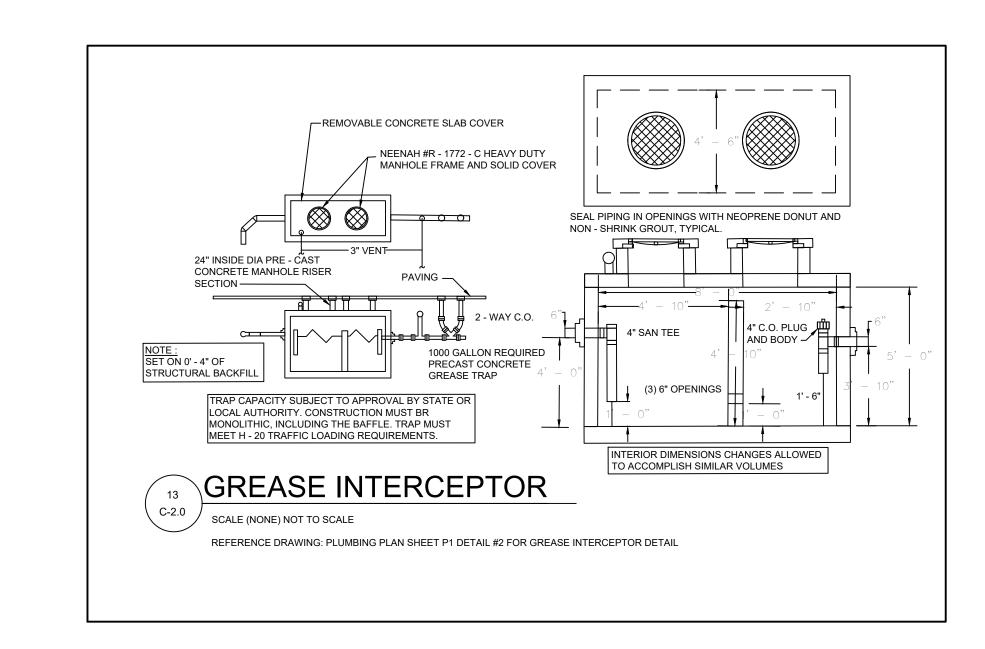
CONCRETE SIDEWALK

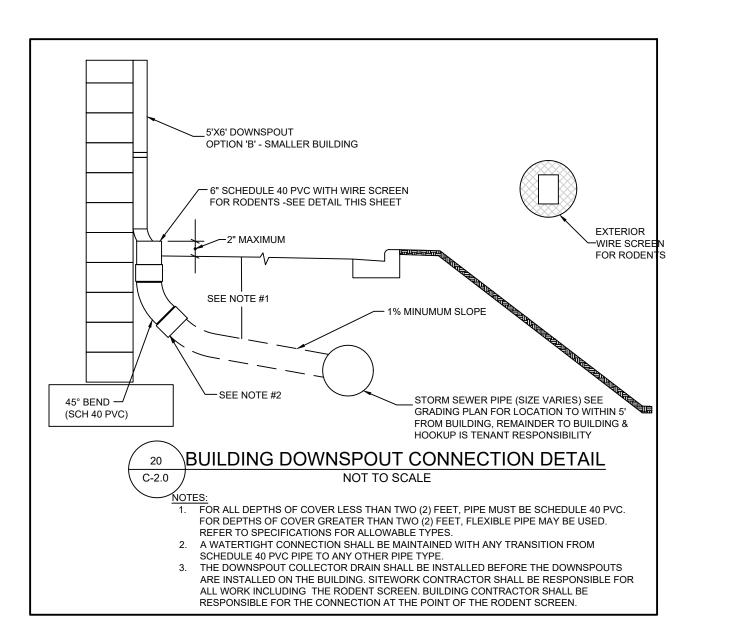
ALUMINUM HANDRAIL

USE ONLY COMMERCIAL GRADE ALUMINUM FENCING WITH DARK BRONZE POWDER COAT FINISH

NOT TO SCALE









Atlanta Georgia, 30349—2998

|--|





ENGINEERING CARTER ENGINEERING

P: 770.725.1200 F: 770.725.1204 www.carterengineering.com

BOGART, GA 30622

1010 COMMERCE DRIVE,

HARDIN VALLEY FSU STORE # 05442 9-B-23-TOB / 9-C-23-DP

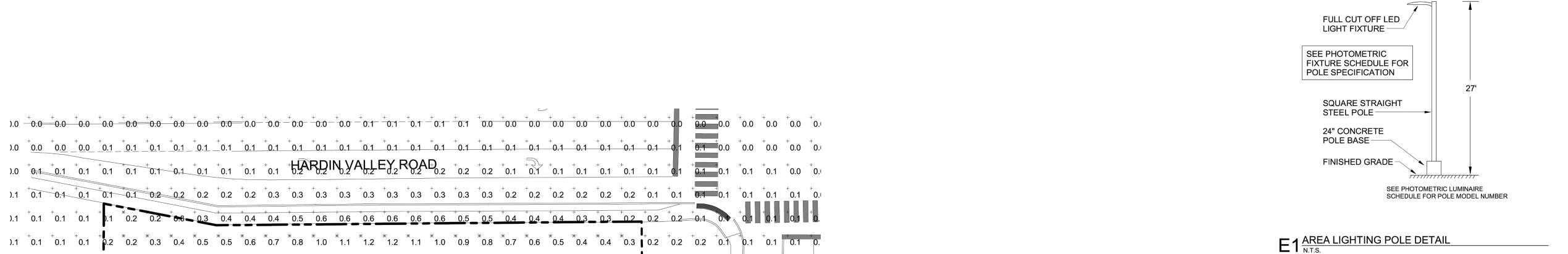
2187 GREENLAND WAY, KNOXVILLE, TN 37932

SHEET TITLE

STANDARD **DETAILS III**

REVISION 4-2023

Job No. : <u>23043CF</u>A . 05442 . 08/28/23 Date



).1 \(^10.1 \) \(^10.1

0;8 0;8 1;3-----

).1 \(^10.2 \)^10.2 \(^10.3 \)^10.4 \(^10.6 \)^10.6 \(^10.9 \)^11.6 \(^10.6 \)^12.4 \(^10.6 \)^12.4 \(^10.6 \)^13.5 \(^10.6 \)

).1 [†]0.2 [†]0.2 [†]0.3 [†]0.5 ^{*}0.7 [†]0.9 [†]1.1 [†]1.4 [†]1.5 [†]1.5 [†]1.5 [†]1.5 [†]1.3 [†]1.3 [†]1.3 [†]1.4 [†]1.6 [†]1.6 [†]1.6 [†]2.6 [†]1.8 [†]2.0 ^{*}0.1 ^{*}1.4 ^{*}1.8 ^{*}1.1 ^{*}0.5 [†]0.3 [†]0.2 [†]0.1 [†]0.

).1 ⁺0.2 ⁺0.3 ⁺0.4 ⁺0.6 ^{*}0.8 ⁺1.0 ⁻1.3 ⁺1.5 ⁺1.5 ⁺1.5 ⁺1.6 ⁺1.6 ⁺1.6 ⁺1.6 ⁺1.4 ⁺1.4 ⁺1.4 ⁺1.4 ⁺1.4 ⁺1.4 ⁺1.7 ⁺1.8 ⁺1.9 ⁺1.2 ⁺2.3 ⁺1.4 ⁺2.3 ⁺1.4 ⁺0.5 [‡]0.3 ⁺0.2 ⁺0.1 ⁺0.

).2 [†]0.2 [†]0.3 [†]0.4 [†]0.6 ^{*}0.8 ^{*}1.1 ^{*}1.4 [†]1.7 [†]1.6 [†]1.6 [†]1.7 [†]1.8 [†]1.5 [†]1.4 [†]1.5 [†]1.7 [†]1.8 [†]1.9 [†]2.0 [†]2.3 ^{*}2.5 ^{*}2.8 ^{*}3.2 ^{*}3.0 ^{*}1.8 ^{*}0.6 [†]0.3 [†]0.2 [†]0.1 [†]0.

).2 † 0.3 † 0.4 † 0.5 † 0 † 0 † 1.2 † 1.5 † 1.8 † 2.0 † 2.2 † 2.3 † 1.8 † 1.8 † 1.7 † 1.8 † 1.5 † 1.5 † 1.8 † 2.1 † 2.6 † 3.3 † 3.5 † 1.8 † 6 † 0.3 † 0.2 † 7.0 † 7.0 † 9.1 † 9.

).2 [†]0.2 [†]0.3 [†]0.5 [†]0.7 *1.0 *1.3 *1.9 *1.7 *1.0 *1.3 *1.9 *2.1 *2.3 *2.2 *2.3 *2.2 *1.9 *1.6 *1.6 *1.8 *1.5 *1.4 *1.5 *1.6 *1.8 *1.9 *1.7 *1.0 [†]0.3 [†]0.2 [†]0.1 [†]0

).2 [†]0.2 [†]0.3 [†]0.5 [†]0.7 [†]0.9 [†]1.1 [†]1.4 [†]1.5 [†]1.6 [†]1.6 [†]1.7 [†]1.9 [†]2.0 [†]1.8 [†]1.8 [†]1.8 [†]1.8 [†]1.6 [†]1.5 [†]1.5 [†]1.3 [†]1.2 ^{*}1.1 ^{*}1.2 ^{*}1.1 ^{*}1.2 ^{*}1.1 ^{*}1.2 [†]0.1 [†]0.1 [†]0.1 [†]0.1 [†]0.1 [†]0.1

).1 [†]0.2 [†]0.3 [†]0.4 [†]0.6 [‡]0.8 [†]0.9 [†]1.2 [†]1.4 [†]1.5 [†]1.6 [†]1.6 [†]1.6 [†]1.6 [†]1.6 [†]1.6 [†]1.6 [†]1.6 [†]1.1.0 [†]1.0 [†]1.0 ^{*}1.0 ^{*}1.0 ^{*}1.0 ^{*}0.9 [†]0.8 [†]0.7 [†]0.6 [†]0.4 [†]0.1 [†]0.1 [†]0.1 [†]0.1 [†]0.1 [†]0.1

0.8 1.9 22 60 60 1.5 0.6 0.3 0.2 0.1 0.1

 $(1.1 \quad 2.2 \quad 6.7 \quad 6.0 \quad 5.8 \quad 2.6 \quad 0.8 \quad 0.4 \quad 0.2 \quad 0.1 \quad 0.1 \quad 0$

*| 1.3 | *| 1.3 | *| 1.8 | *| 3.4 | **6.6 | 6.5 | 226 | *|** 1.8 | *| 0.6 | **1**| 0.**2** | [†]| 0.1 |

EATON - LUMARK (FORMER PRV-C60-D-UNV-T3-BZ 10029 OD1 COOPER LIGHTING) EATON - LUMARK (FORMER PRV-C60-D-UNV-T5-BZ 10678 OD2 COOPER LIGHTING) CRUS-SC-SLW-30 12 LSI INDUSTRIES, INC 5584 0.4 OD POLES SHALL BE 25' SQUARE STRAIGHT STEEL POLES BY KW INDUSTRIES: SSP25-4.0-7-BRZ-DM10/2180-BC. MOUNT POLES ON A 2' CONCRETE POLE BASE. POLES AND LIGHTING FIXTURES TO HAVE A DARK BRONZE FINISH. THE LIGHT LOSS FACTOR FOR FIXTURE Z2 WAS ADJUSTED TO LIMIT THE FOOT CANDLE LEVELS BELOW THE CANOPIES. A DIMMER WILL BE INSTALLED AT EACH CANOPY IN ORDER TO MAINTAIN THE REQUIRED LIGHT LEVELS. REFER TO WIRING DIAGRAMS ON SHEETS E-303 AND E-304 FOR ADDITIONAL INFO ON THE DIMMER.

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone	+	0.9 fc	9.5 fc	0.0 fc	N/A	N/A
CFA Lot Summary	*	1.7 fc	9.5 fc	0.0 fc	N/A	N/A
Parking Lot Summary		1.6 fc	2.5 fc	0.8 fc	3.1:1	2.0:1
Meal Delivery Canopy	×	6.0 fc	9.5 fc	2.7 fc	3.5:1	2.2:1
Order Canopy	×	7.0 fc	9.5 fc	4.4 fc	2.2:1	1.6:1





Chick-fil-A 5200 Buffington Road Atlanta, Georgia 30349-2998



& Associates
2705 Lebanon Pike - Suite One
Nashville, Tennessee 37214
Telephone: (615) 255-5203



HICK-FIL-A

FSR#05442
BUILDING TYPE / SIZE: P14 LE
RELEASE: 23.02
PRINTED FOR
PERMIT

PRINTED FOR
PERMIT

REVISION SCHEDULE

NO. DATE DESCRIPTION

CONSULTANT PROJECT# 23124.EH.S

DATE 08/23/2023

DRAWN BY SM

Information contained on this drawing and in all digital files produced for above named project may not be reproduced in any manner without express written or verbal consent from authorized project representatives.

SHEET

SITE PHOTOMETRIC

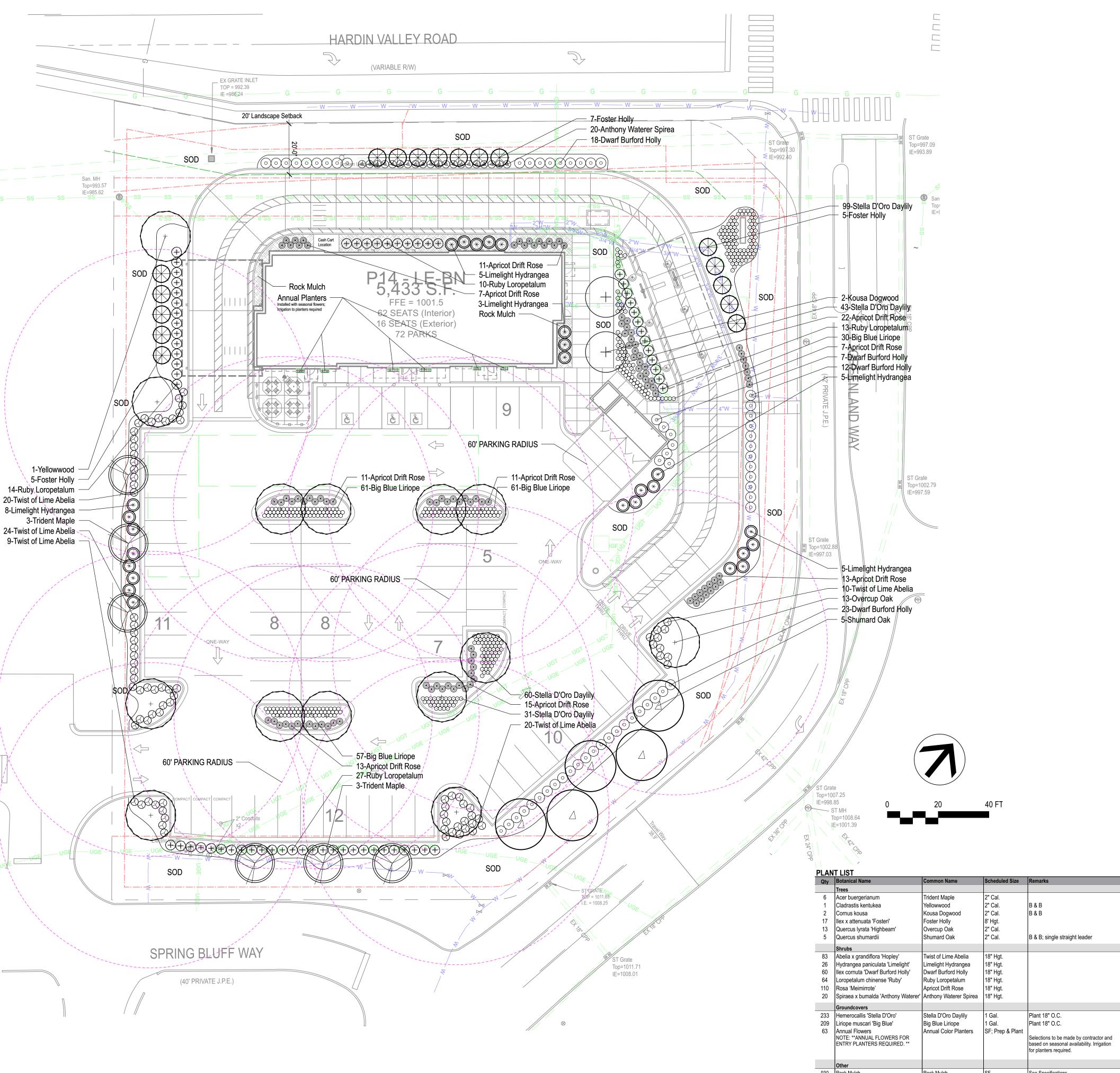
SHEET NUMBER **E-102**

).1 + 0.1 + 0.1 + 0.1 + 0.2 * 0.3 * 0.7 + 2.7 5.2 5.1 + 2.8

 $0.1 \quad 0.1 \quad 0.1 \quad 0.2 \quad 0.2 \quad 0.4 \quad 1.0 \quad 4.2 \quad 8.2 \quad 8.1 \quad 4.2$

).1 [†]0.1 [†]0.1 [†]0.2 [†]0.3 ^{*}0.4 ^{*}1.1 | 4.7 ²² | 9.5

).1 + 0.1 + 0.2 + 0.2 + 0.3 * 0.5 * 1.2 | 4.1 * 7.5 |



LANDSCAPE REQUIREMENTS

A. GENERAL/DIVERSITY

REQUIRED 1. Evergreen trees min. 8' hgt.; Shade trees min. 2" cal.; Single stem ornamental min. 2.5" cal.;

multistem ornamental min. 8' hgt. All shrubs min. 18" hgt.Species diversity required per Table 12-1: Plant Diversity Requirements

3. Min. 25% new trees must be evergreen.

Min. 25% new trees must be evergreen.
 Provide a roughly equal combination of large, medium, and small trees (utilize Appendix B).

Min. 10 large trees per acre of yard space. 10 x 1.75 acres = 18 large trees required

5. Min. 20' required landscape front yard for building w/ no parking in front. (Hardin Valley Rd.)
6. Max. GAC (ground area coverage) 25%. Building Footprint Area/Gross Lot Area
Less than 25% required

PROVIDED

1. We meet requirement - See Plant List table.
2. 42 Total Trees: Max. 40% 1 species - (no more than qty 17) = 17 Foster Holly provided

5 tree species provided
331 Total Shrubs: Max 25% 1 species - (no more than qty 83) = 83 Abelia provided
6 shrub species provided
3. 17 evergreen trees/42 total trees = 40% provided
4. 13 Overcup Oak, 5 Shumard Oak = 18 large trees provided

5. 20' landscape setback noted on plan along Hardin Valley Rd.
6. 5,433 SF/76,244 SF = 7% provided

B. PARKING LOT PERIMETER LANDSCAPE

PROVIDED

REQUIRED

1. Min. 3 shade and/or evergreen trees and 10 shrubs per 100 LF perimeter yard. Min. 50% shrubs must be evergreen. Hardin Valley Rd = No Parking frontage

Greenland Way = 120 LF/100*3 = 4 trees required

Greenland Way = 120 LF/100*10 = 12 shrubs required

Spring Bluff Way = 114 LF/100*10 = 12 shrubs required

Spring Bluff Way = 114 LF/100*3 = 3 trees required

Spring Bluff Way = 114 LF/100*10 = 11 shrubs required

Perimeter A = 96 LF/100*3 = 3 trees required

Perimeter A = 96 LF/100*10 = 10 shrubs required

Min. 60% of landscape area outside of shrub & tree masses must be groundcover, perennials, grass.

3. Parking areas required to be screened from public ROW by landscaped berms and/or low level shrubbery.

Greenland Way = Shumard Oak = 5 trees

Greenland Way = Burford Holly (evergreen) = 23 shrubs

Spring Bluff Way = Trident Maple = 3 trees

Spring Bluff Way = Loropetalum (evergreen) = 27 shrubs

Perimeter A = Trident Maple = 3 trees

Perimeter A = Abelia (evergreen) = 18 shrubs

2. We exceed the requirement. More than 60% other area is living landscape.

3. All parking areas screened with appropriate evergreen plant material.

C. INTERIOR PARKING LOT LANDSCAPE REQUIRED 1. Min. 1 medium or large shade tree per parking island (2 shade trees for double row parking lot islands).

1. Hardin Valley Rd = No Parking frontage

Per parking rows/islands provided = 13 trees required
Min. 1 medium or large canopy tree per 10 parking spaces provided.
72 Parking spaces/10 = 7 trees required

2. Min. 60% of islands planted w/ shrubs, groundcover, perennials, or grass.

3. No parking space to be located >60' from the trunk of a large canopy tree.
4. In addition to required canopy trees, planting areas for ornamental trees, shrubbery and bedding plants shall be min. 5% of the surface area devoted to parking.

26,750 SF parking lot area & 2,780 landscape interior islands = Min. 5% required

OVIDED 1. Overcup Oaks (meeting greater of requirements) = 13 trees provided

We exceed the requirement. All islands planted with shrubs and/or groundcovers.
 We meet the requirement - See 60' parking radius circles shown on plan.
 10% (of surface parking area) devoted to landscape planting areas.

D. BUILDING LANDSCAPE

 Areas around buildings equal to 50% of the area of each front and side elevation shall be planted with ornamental trees, shrubbery and bedding plants.
 Building Height: 20.5 FT

IDED 1. Planting beds adjacent to/abutting building = 2,311 SF bldg LS provided

ATLANTIC LANDSCAPE NOTES

Landscape Contractor to read and understand the Landscape Specifications prior to finalizing bids. The Landscape

Specifications shall be adhered to throughout the construction process.

2. Landscaping provided (Daylilies and shrubs adjacent) around sign.

Specifications shall be adhered to throughout the construction process.

Contractor is responsible for locating and protecting all underground utilities prior to did

Contractor is responsible for locating and protecting all underground utilities prior to digging.
 Contractor is responsible for protecting existing trees from damage during construction.

4. All tree protection devices to be installed prior to the start of land disturbance, and maintained until final landscaping.

5. All tree protection areas to be protected from sedimentation.6. All tree protection fencing to be inspected daily, and repaired or replaced as needed.

7. No parking, storage or other construction activities are to occur within tree protection areas.

8. All planting areas shall be cleaned of construction debris (ie. concrete, rock, rubble, building materials, etc) prior to adding and spreading of the topsoil.

9. General Contractor is responsible for adding a min of 4" clean friable topsoil in all planting beds and all grassed areas.

Graded areas to be held down the appropriate elevation to account for topsoil depth. See Landscape Specifications for

required topsoil characteristics.

10. In all parking lot islands, the General Contractor is responsible to remove all debris, fracture/loosen subgrade to a min. 24" depth. Add topsoil to a 6"-8" berm height above island curbing; refer to landscape specifications and landscape island

detail.
Prior to beginning work, the Landscape Contractor shall inspect the subgrade, general site conditions, verify elevations, utility locations, irrigation, approve topsoil provided by the General Contractor and observe the site conditions under which the work is to be done. Notify the General Contractor of any unsatisfactory conditions, work shall not proceed until such conditions have been corrected and are acceptable to the Landscape Contractor.

12. Any deviations from the approved set of plans are to be approved by the Landscape Architect.13. Landscaping shall be installed in conformance with ANSI Z60.1 the "American Standard for Nursery Stock" and the

accepted standards of the American Association of Nurserymen.

14. Existing grass in proposed planting areas shall be killed and removed. Hand rake to remove all rocks and debris larger

than 1 inch in diameter, prior to adding topsoil and planting shrubs.

5. Soil to be tested to determine fertilizer and lime requirements prior to laying sod.

16. Annual and perennial beds: add min. 4 inch layer of organic material and till to a min. depth of 12 inches. Mulch annual and perennial beds with 2-3 inch depth of mini nuggets.

17. All shrubs beds (existing and new) to be mulched with a min. 3 inch layer of mulch (mulch type to be: double shredded hardwood mulch).

18. Planting holes to be dug a minimum of twice the width of the root ball, for both shrub and tree. Set plant material 2-3" above finish grade. Backfill planting pit with topsoil and native excavated soil.

19. Sod to be delivered fresh (Cut less than 24 hours prior to arriving on site), laid immediately, rolled, and watered thoroughly immediately after planting. Edge of sod at planting beds are to be "V" trenched; see Landscape Details.

20. Any existing grass disturbed during construction to be fully removed, regraded and replaced. All tire marks and indentions to be repaired.

21. Water thoroughly twice in first 24 hours and apply mulch immediately.22. The Landscape Contractor shall guarantee all plants installed for one full year from date of acceptance by the owner. All plants shall be alive and at a vigorous rate of growth at the end of the guarantee period. The Landscape Contractor shall

not be responsible for acts of God or vandalism. See Landscape Specifications for Warranty requirements/expectations.

23. Any plant that is determined dead, in an unhealthy, unsightly condition, lost its shape due to dead branches, or other symptoms of poor, non-vigorous growth, shall be replaced by the Landscape Contractor. See Landscape Specifications for

warranty requirements/expectations.

24. Site to be 100% irrigated in all planting beds and grass area by an automatic underground Irrigation System. Irrigation

as-built shall be provided to the Landscape Architect within 24 hours of irrigation install completion.

25. Stake all evergreen and deciduous trees as shown in the planting detail and as per the Landscape Specifications.

26. Remove stakes and guying from all trees after one year from planting.







Landscape Architecture

Manley Land Design, Inc. 51 Old Canton Street Alpharetta, Georgia 30009

770.442.8171 tel



CHICK-FIL-A HARDIN VALLEY 2187 GREENLAND WAY

FSU# 05442

 REVISION SCHEDULE

 NO.
 DATE
 BY
 DESCRIPTION

 1
 8/25/23
 DO
 City Comments

MLD PROJECT#	2023173
PRINTED FOR	PERMIT
DATE	7/6/23

Information contained on this drawing and in all digital files produced for above named project may not be reproduced in any manner without express written or verbal consent from authorized project representatives.

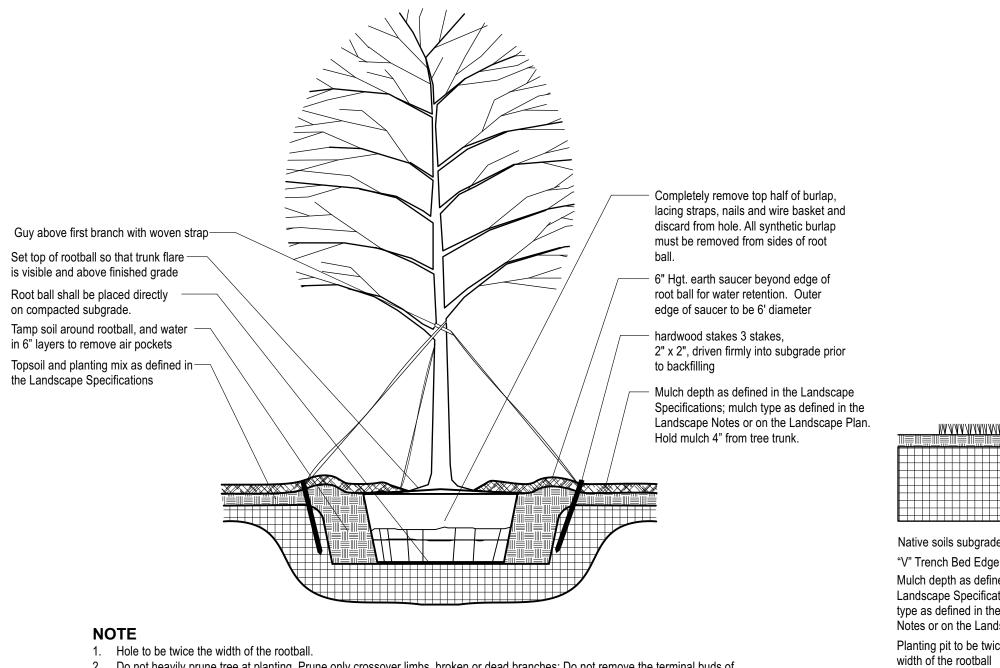
SHEET

Landscape Plan
TTCDA & Development Plan File #s:

-B-23-TOB / 9-C-23-DP

SHEET NUMBER

L-100



- 2. Do not heavily prune tree at planting. Prune only crossover limbs, broken or dead branches; Do not remove the terminal buds of branches that extend to the edge of the crown.
- 3. Each tree must be planted such that the trunk flare is visible at the top of the rootball. Trees where the trunk flare is not visible shall
- be rejected. Do not cover the top of the rootball with soil. Mulch to be held back 4" away from trunk.

4. Remove Guy Wires and Staking when warranty period has expired (after one year).

TURF SIDE PLANTING BED SIDE

Mulch as defined in the Landscape Specifications. Hold Mulch 4" from tree

Shovel Cut Bed Edge at 45 degree

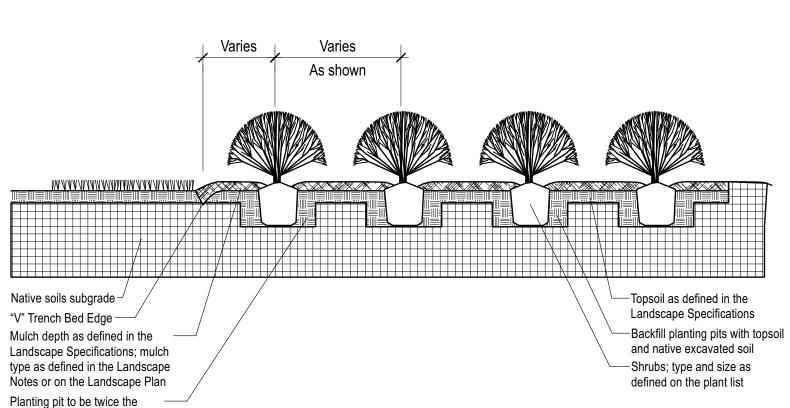
Topsoil as defined in the Landscape

Specifications. Native soils subgrade -

trunk and shrub stems

Finished grade at bedline —

angle, 6" deep



A = Row Spacing B = On Center Spacing Space plants in a triangular pattern as shown, spaced equally from each other at spacing indicated on the plant list Mulch depth as defined in the Landscape Specifications; mulch type as defined in the Landscape Notes or on the Landscape Plan.

Topsoil as defined in the

Landscape Specifications

Native soils subgrade -

1. Space groundcover plants in accordance with indicated spacing listed on the plant list, or as shown on the landscape plan.

2. Adjust spacing as necessary to evenly fill planting bed with indicated quantity of plants. 3. Plant to within 24" of the trunks of trees and shrubs within planting bed and to within 18" of edge of bed.

GROUNDCOVER PLANTING DETAIL

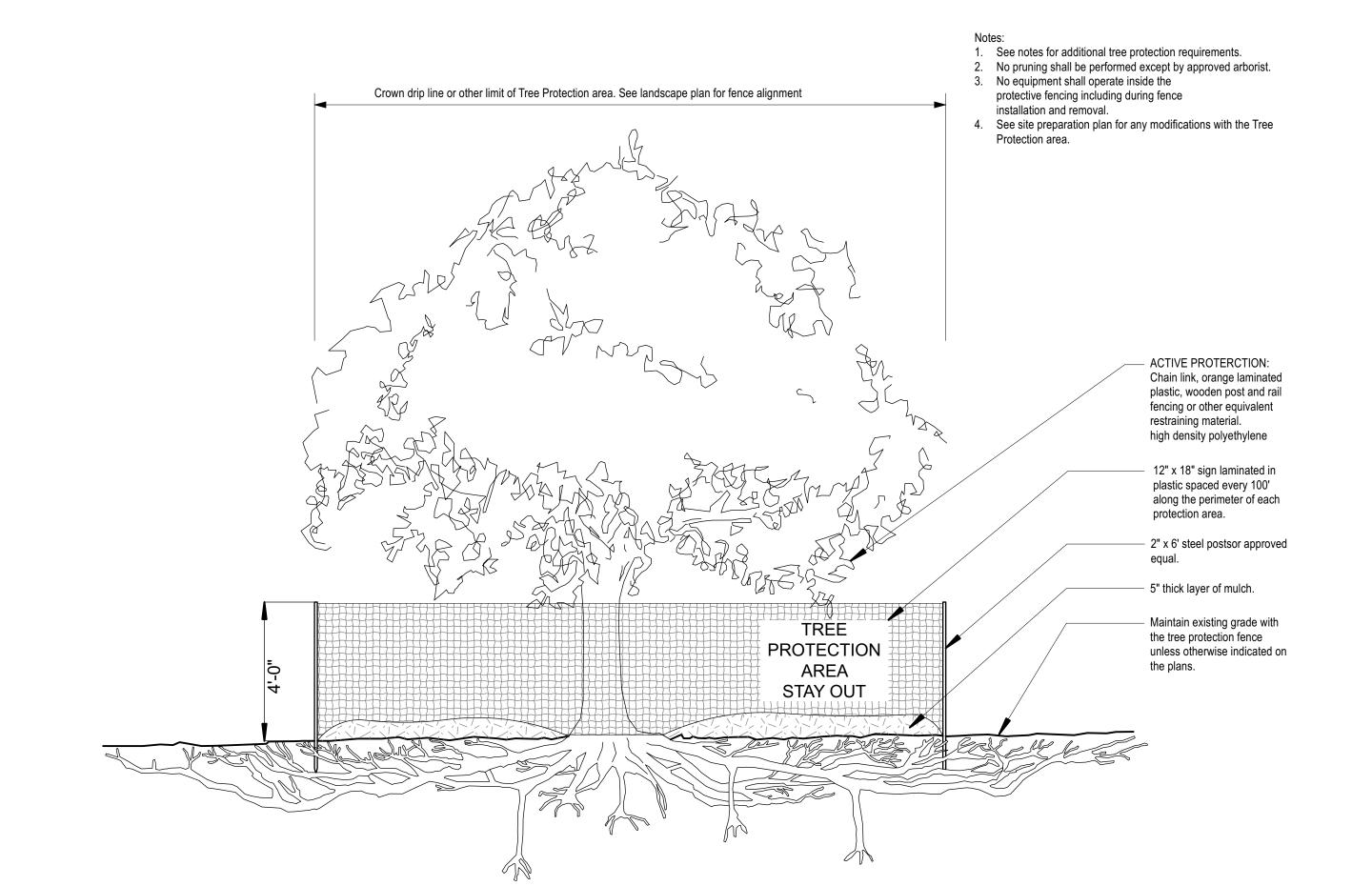
Island plant material as per the Landscape Plan.

Landsacpe Specifications.

PARKING ISLAND DETAIL

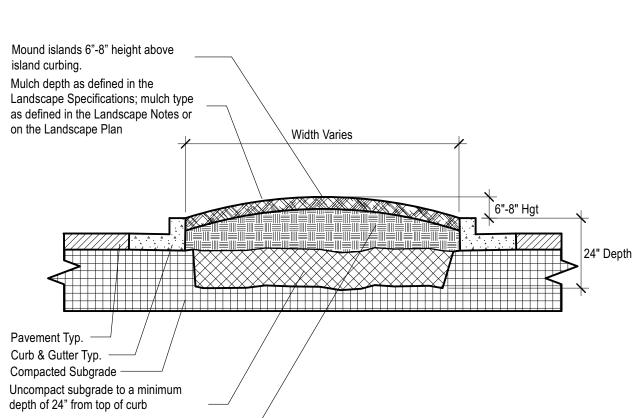
TREE PLANTING & STAKING SCALE: NTS





"V" TRENCH BED EDGING





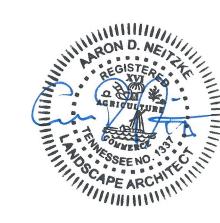
Topsoil as defined in the Landscape Specifications; minimum 4" depth

1. Clean construction debris from within landscape island areas (ie. concrete, rocks, rubble, building materials, ect), prior to installing topsoil and plant material.

- 2. Fracture/loosen existing subgrade to a minimum 24" depth. Remove and replace any subgrade unsuitable for planting. Once subgrade is clean of debris and loosened, add topsoil to a minimum bermed 6"-8" height above island curbing.
- 4. Install plant material as per tree, shrub and ground cover planting details, and as defined in the
- Install mulch or sod as specified on the Landscape Plan, and as defined in the Landscape Specifications.







FSU# 05442

 NO.
 DATE | 8/25/23
 BY | DESCRIPTION | City Comments

MLD PROJECT #	2023173
PRINTED FOR	PERMIT
DATE	7/6/23
DRAWN BY	DO
Information contained on this drawing and in	all digital files

produced for above named project may not be reproduced in any manner without express written or verbal consent from authorized project representatives.

Landscape Details TTCDA & Development Plan File #s: 9-B-23-TOB / 9-C-23-DP

LANDSCAPE SPECIFICATIONS

PART 1 - GENERAL

DESCRIPTION Provide trees, shrubs, ground covers, sod, and annuals/perennials as shown and specified on the

- landscape plan. The work includes: Soil preparation
- 2. Trees, shrubs, ground covers, and annuals/perennials.
- Planting mixes
- 4. Top Soil, Mulch and Planting accessories. Maintenance.

Decorative stone.

Related Work:

Irrigation System **QUALITY ASSURANCE**

Plant names indicated; comply with "Standardized Plant Names" as adopted by the latest edition of the American Joint Committee of Horticultural Nomenclature. Names of varieties not listed conform generally with names accepted by the nursery trade. Provide stock true to botanical name and legibly tagged.

Comply with sizing and grading standards of the latest edition of "American Standard for Nursery Stock". A plant shall be dimensioned as it stands in its natural position.

All plants shall be nursery grown under climatic conditions similar to those in the locality of the project for a minimum of 2 years.

Nurserv Stock furnished shall be at least the minimum size indicated. Larger stock is acceptable, at no additional cost, and providing that the larger plants will not be cut back to size indicated. Provide plants indicated by two measurements so that only a maximum of 25% are of the minimum size indicated and 75% are of the maximum size indicated.

Before submitting a bid, the Contractor shall have investigated the sources of supply and be satisfied that they can supply the listed plants in the size, variety and quality as specified. Failure to take this precaution will not relieve the Contractor from their responsibility for furnishing and installing all plant materials in strict accordance with the Contract Documents without additional cost to the Owner. The Landscape Architect shall approve any substitutes of plant material, or changes in plant material size, prior to the Landscape Contractor submitting a bid.

DELIVER, STORAGE AND HANDLING

Take all precautions customary in good trade practice in preparing plants for moving. Workmanship that fails to meet the highest standards will be rejected. Spray deciduous plants in foliage with an approved "Anti-Desiccant" immediately after digging to prevent dehydration. Dig, pack, transport, and handle plants with care to ensure protection against injury. Inspection certificates required by law shall accompany each shipment invoice or order to stock. Protect all plants from drying out. If plants cannot be planted immediately upon delivery, properly protect them with soil, wet peat moss, or in a manner acceptable to the Landscape Architect. Water heeled-in plantings daily. No plant shall be bound with rope or wire in a manner that could damage or break the branches. Cover plants transported on open vehicles with a protective covering to prevent wind burn.

PROJECT CONDITIONS

Protect existing utilities, paving, and other facilities from damage caused by landscape operations.

A complete list of plants, including a schedule of sizes, quantities, and other requirements are shown on the drawings. In the event that quantity discrepancies or material omissions occur in the plant materials list, the planting plans shall govern.

The irrigation system will be installed prior to planting. Locate, protect and maintain the irrigation system during planting operations. Repair irrigation system components damaged during planting operations; at the Contractor's expense. Refer to the irrigation specifications, irrigation plan and irrigation details.

Do not begin landscape accessory work before completion of final grading or surfacing.

Warrant plant material to remain alive, be healthy and in a vigorous condition for a period of 1 year after completion and final acceptance of entire project.

Replace, in accordance with the drawings and specifications, all plants that are dead or, are in an unhealthy, or unsightly condition, and have lost their natural shape due to dead branches, or other causes due to the Contractor's negligence. The cost of such replacement(s) is at the Contractor's expense. Warrant all replacement plants for 1 year after installation.

Warranty shall not include damage, loss of trees, plants, or ground covers caused by fires, floods, freezing rains, lightning storms, winds over 75 miles per hour, winter kill caused by extreme cold, severe winter conditions not typical of planting area, and/or acts of vandalism or negligence on a part of the Owner.

Remove and immediately replace all plants, found to be unsatisfactory during the initial planting

Maintain and protect plant material, lawns, and irrigation until final acceptance is made.

Inspection of planted areas will be made by the Owner's representative

1. Planted areas will be accepted provided all requirements, including maintenance, have been complied with and plant materials are alive and in a healthy, vigorous condition.

Upon acceptance, the Contractor shall commence the specified plant maintenance.

CODES, PERMITS AND FEES

Obtain any necessary permits for this Section of Work and pay any fees required for permits.

The entire installation shall fully comply with all local and state laws and ordinances, and with all established codes applicable thereto; also as depicted on the landscape and irrigation construction set.

PART 2 - PRODUCTS

MATERIALS

Plants: Provide typical of their species or variety; with normal, densely developed branches and vigorous, fibrous root systems. Provide only sound, healthy, vigorous plants free from defects, disfiguring knots, sun scald injuries, frost cracks, abrasions of the bark, plant diseases, insect eggs, borers, and all forms of infestation. All plants shall have a fully developed form without voids and open spaces. Plants held on storage will be rejected if they show signs of growth during the storage period. 1. Balled and plants wrapped with burlap, to have firm, natural balls of earth of sufficient diameter

- and depth to encompass the fibrous and feeding root system necessary for full recovery of the plant. Provide ball sizes complying with the latest edition of the "American Standard for Nursery
- Stock". Cracked or mushroomed balls, or signs of circling roots are not acceptable. 2. Container- grown stock: Grown in a container for sufficient length of time for the root system to
- have developed to hold its soil together, firm and whole. a. No plants shall be loose in the container.
- b. Container stock shall not be pot bound. 3. Plants planted in rows shall be matched in form.
- 4. Plants larger than those specified in the plant list may be used when acceptable to the
- a. If the use of larger plants is acceptable, increase the spread of roots or root ball in proportion to the size of the plant.
- 5. The height of the trees, measured from the crown of the roots to the top of the top branch, shall
- not be less than the minimum size designated in the plant list.
- 6. No pruning wounds shall be present with a diameter of more than 1" and such wounds must show vigorous bark on all edges.
- 7. Evergreen trees shall be branched to the ground or as specified in plant list. 8. Shrubs and small plants shall meet the requirements for spread and height indicated in the plant
- a. The measurements for height shall be taken from the ground level to the height of the top
- of the plant and not the longest branch.
- b. Single stemmed or thin plants will not be accepted c. Side branches shall be generous, well-twigged, and the plant as a whole well-bushed to
- d. Plants shall be in a moist, vigorous condition, free from dead wood, bruises, or other root or branch injuries.

ACCESSORIES

Topsoil: Shall be Fertile, friable, natural topsoil of loamy character, without admixture of subsoil material, obtained from a well-drained arable site, reasonably free from clay, lumps, coarse sands, stones, roots, sticks, and other foreign materials, with acidity range of between pH 6.0 and 6.8.

Note: All planting areas shall be cleaned of construction debris (ie. Concrete, rubble, stones, building material, etc.) prior to adding and spreading of the top soil.

1. Sod Areas: Spread a minimum 4" layer of top soil and rake smooth.

2. Planting bed areas: Spread a minimum 4" layer of top soil and rake smooth.

- depth. Remove and replace any subgrade unsuitable for planting. Once subgrade is clean of debris and loosened, add topsoil to a minimum berm 6"-8" height above
- 4. Annual/Perennial bed areas: Add a minimum of 4" organic matter and till to a minimum 12" depth.

Mulch: Type selected dependent on region and availability; see landscape plans for type of much to be used. Hold mulch 4" from tree trunks and shrub stems

- 1. Hardwood: (color) dark brown, 6 month old well rotted double shredded native hardwood bark mulch not larger than 4" in length and ½" in width, free of wood chips
- and sawdust. Install minimum depth of 3". 2. Pine Straw: Pine straw to be fresh harvest, free of debris, bright in color. Bales to be wired and tightly bound. Needles to be dry. Install minimum depth of 3".

3. River Rock: (color) light gray to buff to dark brown, washed river rock, 1" – 3" in size.

Install in shrub beds to an even depth of 3". Weed control barrier to be installed under all rock mulch areas. Use caution during installation not to damage plant material. 4. Mini Nuggets: Install to a minimum depth of 2"-3" at all locations of annual and perennial beds. Lift the stems and leaves of the annuals and carefully spread the mulch to avoid

Guying/Staking:

Arbortie: Green (or white) staking and guying material to be flat, woven, polypropylene material, 3/4" wide 900 lb. break strength. Arbortie shall be fastened to stakes in a manner which permits tree movement and supports the tree.

2. Remove Guying/Staking after one year from planting.

injuring the plants. Gently brush the mulch off the plants.

Tree Wrap: Tree wraps should be used on young, newly planted thin-barked trees (Cherry, Crabapple, Honey Locust, Linden, Maple, Mountain Ash, Plum) that are most susceptible to sun scald/Sunburn. Standard waterproofed tree wrapping paper, 2-1/2" wide, made of 2 layers of crepe Draft paper weighing not less than 30 lbs. per ream, cemented together with asphalt. Wrap the tree in the fall and leave the wrap in place throughout the winter and early spring. Tree wraps are temporary and no longer needed once trees develop corky bark.

PART 3 – EXECUTION

Prior to beginning work, the Landscape Contractor shall inspect the subgrade, general site conditions, verify elevations, utility locations, irrigation, approve top soil provided by the General Contractor and observe the site conditions under which the work is to be done. Notify the General Contractor of any unsatisfactory conditions, and work shall not proceed until such conditions have been corrected and are acceptable to the Landscape Contractor.

PREPARATION

Planting shall be performed only by experienced workmen familiar with planting procedures under the supervision of a qualified supervisor.

Locate plants as indicated on the plans or as approved in the field after staking by the Landscape Contractor. If obstructions are encountered that are not shown on the drawings, do not proceed with planting operations until alternate plant locations have been selected and approved by the Landscape Architect; spacing of plant material shall be as shown on the landscape plan.

Excavate circular plant pits with vertical sides, except for plants specifically indicated to be planted in beds. Provide shrub pits at least 12" greater than the diameter of the root system and 24" greater for trees. Depth of pit shall accommodate the root system. Provide undisturbed sub grade to hold root ball at nursery grade as shown on the drawings.

INSTALLATION

Set plant material in the planting pit to proper grade and alignment. Set plants upright, plumb, and faced to give the best appearance or relationship to each other or adjacent structure. Set plant material 2" – 3" above the finish grade. No filling will be permitted around trunks or stems. Backfill the pit with topsoil mix and excavated material. Do not use frozen or muddy mixtures for backfilling. Form a ring of soil around the edge of each planting pit to retain water.

After balled and wrapped in burlap plants are set, muddle planting soil mixture around bases of balls and fill all voids. 1. Remove all burlap, ropes, and wires from the top 1/3 of the root ball

Space ground cover plants in accordance with indicated dimensions. Adjust spacing as necessary to evenly fill planting bed with indicated quantity of plants. Plant to within 24" of the trunks of trees and shrubs within planting bed and to within 18" of edge of bed.

1. Mulch tree and shrub planting pits and shrub beds with required mulching material (see landscape plan for mulch type); depth of mulch as noted above. Hold mulch back 4" away from tree trunks and shrub stems. Thoroughly water mulched areas. After watering, rake mulch to provide a uniform finished surface.

Decorative Stone: (where indicated on landscape plan)

1. Install weed control barrier over sub-grade prior to installing stone. Lap 6" on all sides.

2. Place stone without damaging weed barrier. 3. Arrange stones for best appearance and to cover all weed barrier fabric.

- Wrapping, guying, staking: Inspect trees for injury to trunks, evidence of insect infestation, and improper pruning
- Wrapping: a. Wrap trunks of all young newly planted trees known to have thin bark. Wrap spirally
- from bottom to top with specified tree wrap and secure in place. b. Overlap ½ the width of the tree wrap strip and cover the trunk from the ground to the
- height of the second branch. c. Secure tree wrap in place with twine wound spirally downward in the opposite
- direction, tied around the tree in at least 3 places in addition to the top and bottom. d. Wrap the trees in the fall and leave the wrap in place throughout the winter and early
- d. Tree wraps are temporary and no longer needed once the trees develop corky bark. Staking/Guying:
- a. Stake/guy all trees immediately after lawn sodding operations and prior to acceptance.
- b. Stake deciduous trees 2" caliper and less. Stake evergreen trees under 7'-0" tall. 1. Stakes are placed in line with prevailing wind direction and driven into undisturbed soil. 2. Ties are attached to the tree, usually at the lowest branch.
- c. Guy deciduous trees over 2" caliper. Guy evergreen trees 7'-0" tall and over. 1. Guy wires to be attached to three stakes driven into undisturbed soil, with one stake placed in the direction of the prevailing wind.
- 2. Ties are attached to the tree as high as practical. 3. The axis of the stake should be at 90 degree angle to the axis on the pull of the
- 4. Remove all guying and staking after one year from planting.

1. Prune deciduous trees and evergreens only to remove broken or damaged branches.

During landscape/irrigation installation operations, all areas shall be kept neat and clean. Precautions shall be taken to avoid damage to existing structures. All work shall be performed

in a safe manner to the operators, the occupants and any pedestrians. Upon completion of installation operations, all excess materials, equipment, debris and waste

material shall be cleaned up and removed from the site; unless provisions have been granted by the owner to use on-site trash receptacles. Sweep parking and walks clean of dirt and debris. Remove all plant tags and other debris from lawns and planting areas.

Any damage to the landscape, the structure, or the irrigation system caused by the landscape contractor shall be repaired by the landscape contractor without charge to the owner.

MAINTENANCE Contractor shall provide maintenance until work has been accepted by the Owner's Representative.

Maintenance shall include mowing, fertilizing, mulching, pruning, cultivation, weeding, watering, and application of appropriate insecticides and fungicides necessary to maintain plants and lawns free of insects and disease. 1. Re-set settled plants to proper grade and position. Restore planting saucer and adjacent

material and remove dead material 2. repair guy wires and stakes as required. Remove all stakes and guy wires after 1 year. 3. Correct defective work as soon as possible after deficiencies become apparent and weather and season permit

and not less than twice per week until final acceptance.

4. Water trees, plants and ground cover beds within the first 24 hours of initial planting.

3. Landscape Islands/Medians: Fracture/loosen existing subgrade to a minimum 24" LANDSCAPE MAINTENANCE SPECIFICATIONS

The Contractor shall provide as a separate bid, maintenance for a period of *1 year* after final acceptance of the project landscaping. The Contractor must be able to provide continued maintenance if requested by the Owner or provide the name of a reputable landscape contractor who can provide maintenance.

STANDARDS

All landscape maintenance services shall be performed by trained personnel using current, acceptable horticultural practices.

All work shall be performed in a manner that maintains the original intent of the landscape

All chemical applications shall be performed in accordance with current county, state and federal laws, using EPA registered materials and methods of application. These applications shall be performed under the supervision of a Licensed Certified applicator.

Any work performed in addition to that which is outlined in the contract shall only be done upon written approval by the Owner's Representative (General Manager of the restaurant). All seasonal color selections shall be approved by the General Manager prior to ordering and

SOIL TESTING

The maintenance contractor shall perform soil tests as needed to identify imbalances or deficiencies causing plant material decline. The owner shall be notified of the recommendation for approval, and the necessary corrections made at an additional cost to the owner.

Acceptable Soil Test Results

	Landscape Trees and Shrubs	Turf
H Range	5.0-7.0	6.0-7.0
Organic Matter	>1.5%	>2.5%
Magnesium (Mg)	100+lbs./acre	100+lbs./acre
Phosphorus (P2O5)	150+lbs./acre	150+lbs./acre
Potassium (K2O)	120+lbs./acre	120+lbs./acre
Soluble salts/	Not to exceed 900ppm/1.9 mmhos/cm	Not to exceed 750ppm/0.75 mmhos/c
Conductivity	in soil: not to exceed 1400 ppm/2.5	in soil: not to exceed 2000 ppm/2.0

For unusual soil conditions, the following optional tests are recommended with levels not to exceed 3 pounds per acre 50 pounds per acre Manganese Potassium (K2O) 450 pounds per acre 20 pounds per acre

mmhos/cm in high organic mix

WORKMANSHIP During landscape maintenance operations, all areas shall be kept neat and clean. Precautions shall be taken to avoid damage to existing structures. All work shall be performed in a safe manner to the operators, the occupants and any pedestrians.

Upon completion of maintenance operations, all debris and waste material shall be cleaned up and removed from the site, unless provisions have been granted by the owner to use on-site

maintenance contractor, shall be repaired by the maintenance contractor without charge to the

TURF

beds, and paved areas.

GENERAL CLEAN UP Prior to mowing, all trash, sticks, and other unwanted debris shall be removed from lawns, plant

Any damage to the landscape, the structure, or the irrigation system caused by the

Warm season grasses (i.e. Bermuda grass) shall be maintained at a height of 1" to 2" during Cool season grasses, including blue grass, tall fescue, perennial ryegrass, etc., shall be

maintained at a height of 2" to 3" in spring and fall. From June through September, mowing

The mowing operation includes trimming around all obstacles, raking excessive grass clippings and removing debris from walks, curbs, and parking areas. Caution: Weed eaters should NOT

Edging of all sidewalks, curbs and other paved areas shall be performed once every other mowing. Debris from the edging operations shall be removed and the areas swept clean. Caution shall be used to avoid flying debris.

LIMING & FERTILIZING A soil test shall be taken to determine whether an application of limestone in late fall is necessary. If limestone is required, the landscape contractor shall specify the rate, obtain approval from the owner and apply it at an additional cost. A unit price for liming of turf shall

accompany the bid based on a rate of 50 pounds per 1000 square feet. Fertilizer shall be applied in areas based on the existing turf species.

LAWN WEED CONTROL: HERBICIDES Selection and proper use of herbicides shall be the landscape contractor's responsibility. All

chemical applications shall be performed under the supervision of a Licensed Certified

Applicator. Read the label prior to applying any chemical.

height shall be maintained at no less than 3".

be used around trees because of potential damage to the bark.

INSECT & DISEASE CONTROL FOR TURF The contractor shall be responsible for monitoring the site conditions on each visit to determine if any insect pest or disease problems exist. The contractor shall identify the insect pest or disease, as well as the host plant, and then consult the most current edition of the Cooperative Extension Service's "Commercial Insecticide Recommendation for Turf" for control. The licensed applicator shall be familiar with the label provided for the selected product prior to

Inspection and treatment to control insect pests shall be included in the contract price. TREES, SHRUBS, & GROUND COVER

All ornamental trees, shrubs and ground cover shall be pruned when appropriate to remove dead or damaged branches, develop the natural shapes. Do not shear trees or shrubs. If previous maintenance practice has been to shear and ball, then a natural shape will be

restored gradually.

and viburnums.

- 1. Prune those that flower before the end of June immediately after flowering. Flower buds develop during the previous growing season. Fall, winter or spring pruning would reduce the spring flowering display.
- 2. Prune those that flower in summer or autumn in winter or spring before new growth begins, since these plants develop flowers on new growth 3. Delay pruning plants grown for ornamental fruits, such as cotoneasters, pyracanthas
- for seasonal decoration. However, severe pruning of evergreens should be done in early 5. Broadleaf evergreen shrubs shall be hand-pruned to maintain their natural appearance after the new growth hardens off.

4. Hollies and other evergreens may be pruned during winter in order to use their branches

6. Hedges or shrubs that require shearing to maintain a formal appearance shall be pruned as required. Dead wood shall be removed from sheared plants before the first shearing of the season 7. Conifers shall be pruned, if required, according to their genus.

A. Yews, junipers, hemlocks, arborvitae, and false-cypress may be pruned after

B. Firs and spruces may be lightly pruned in late summer, fall, or winter after completing growth. Leave side buds. Never cut central leader.

new growth has hardened off in late summer. If severe pruning is necessary, it must

C. Pines may be lightly pruned in early June by reducing candles. 8. Groundcover shall be edged and pruned as needed to contain it within its borders. 9. Thinning: Remove branches and water sprouts by cutting them back to their point of origin on parent stems. This method results in a more open plant, without stimulating

excessive growth. Thinning is used on crepe myrtle, lilacs, viburnums, smoke bush,etc. 10. Renewal pruning: Remove oldest branches of shrub at ground, leaving the younger, more vigorous branches. Also remove weak stems. On overgrown plants, this method may be best done over a three-year period. Renewal pruning may be used on abelia, forsythia, deutzia, spiraea, etc.

Plants overhanging passageways and parking areas and damaged plants shall be pruned as

Shade trees that cannot be adequately pruned from the ground shall not be included in the Maintenance Contract. A certified arborist under a separate contract shall perform this type of

SPRING CLEANUP Plant beds shall receive a general cleanup before fertilizing and mulching. Cleanup includes

removing debris and trash from beds and cutting back herbaceous perennials left standing through winter, e.g. ornamental grasses, Sedum Autumn Joy. **FERTILIZING**

For trees, the rate of fertilization depends on the tree species, tree vigor, area available for

4 years; younger trees shall be fertilized more often during rapid growth stages.

fertilization, and growth stage of the tree. Mature specimens benefit from fertilization every 3 to

The current recommendation is based on the rate of 1000 square feet of area under the tree to be fertilized. For deciduous trees, 2 to 6 pounds of Nitrogen per 1000 square feet; for narrow-leaf evergreens, 1 to 4 pounds of Nitrogen per 1000 square feet; for broadleaf evergreens, 1 to 3 pounds of Nitrogen per 1000 square feet.

Shrubs and groundcover shall be top-dressed with compost 1" deep, or fertilized once in March

SUMMARY OF MAINTENANCE with 10-6-4 analysis fertilizer at the rate of 3 pounds per 100 square feet of bed area. Ericaceous material shall be fertilized with an ericaceous fertilizer at the manufacturer's recommendation rate. If plants are growing poorly, a soil sample should be taken.

MULCHING Annually, all tree and shrub beds will be prepared and mulched, to a minimum depth of 3" with quality mulch to match existing. Bed preparation shall include removing all weeds, cleaning up said bed, edging and cultivating decayed mulch into the soil. Debris from edging is to be

applied to the soil to inhibit the growth of future weeds.

Organically maintained gardens shall not receive any pre-emergent herbicides. Mulch in excess of 4" will be removed from the bed areas. SPECIAL CARE shall be taken in the mulching operation not to over-mulch or cover the base of trees and shrubs. This can be detrimental to the health of the plants.

removed from beds where applicable. If deemed necessary, a pre-emergent herbicide may be

All beds shall be weeded on a continuous basis throughout the growing season to maintain a

Pre-emergent (soil-applied) and post-emergent (foliar-applied) herbicides shall be used where and when applicable and in accordance with the product's label.

INSECT & DISEASE CONTROL: TREES, SHRUBS & GROUNDCOVER

The maintenance contractor shall be responsible for monitoring the landscape site on a regular basis. The monitoring frequency shall be monthly except for growing season, which will be every other week. Trained personnel shall monitor for plant damaging insect activity, plant pathogenic diseases and potential cultural problems in the landscape. The pest or cultural problem will be identified under the supervision of the contractor.

For plant damaging insects and mites identified in the landscape, the contractor shall consult and follow the recommendations of the most current edition of the state Cooperative Service publication on insect control on landscape plant material.

Plant pathogenic disease problems identified by the contractor that can be resolved by pruning

or physical removal of damaged plant parts will be performed as part of the contract. For an

additional charge, plant pathogenic diseases that can be resolved through properly timed

applications of fungicides shall be made when the owner authorizes it. If the contractor notes an especially insect-or disease-prone plant species in the landscape, he/she will suggest replacement with a more pest-resistant cultivar or species that is consistent

with the intent of the landscape design. NOTE: For identification of plant-damaging insects and mites, a reference textbook that can be used is Insects that feed on Trees and Shrubs by Johnson and Lyon, Comstock Publishing Associates. For plan pathogenic diseases, two references are suggested: Scouting and Controlling Woody Ornamental Diseases in Landscapes and Nurseries, authorized by Gary Moorman, published by Penn State College of Agricultural Sciences, and *Diseases of Trees*

and Shrubs by Sinclair and Lyon, published by Comstock Publishing Press.

perform supplemental leaf removals.

January, February, and March.

Inspection of grounds

TRASH REMOVAL

LEAF REMOVAL All fallen leaves shall be removed from the site in November and once in December. If requested by the owner, the maintenance contractor, at an additional cost to the owner shall

The maintenance contractor shall remove trash from all shrub and groundcover beds with each

WINTER CLEAN-UP The project shall receive a general clean-up once during each of the winter months, i.e.,

- Clean-up includes:
- Cleaning curbs and parking areas Removing all trash and unwanted debris

Turning mulch where necessary

SEASONAL COLOR: PERENNIALS, ANNUALS, AND BULBS

The installation of perennials, annuals, and bulbs, unless specified herein, shall be reviewed with the owner, and, if accepted, installed and billed to the owner.

SEASONAL COLOR MAINTENANCE

Perennialization of Bulbs:

- 1. After flowering, cut off spent flower heads. 2. Allow leaves of daffodils and hyacinths to remain for six weeks after flowers have faded.
- Cut off at base. Allow leaves of other bulbs to yellow naturally and then cut off at base.

4. Apply fertilizer after flowering in spring, possibly again in fall. Apply 10-10-10 at the rate

of 2 pounds per 1000 square feet, or top-dress with compost 1" deep. Fall fertilization with a bulb fertilizer or mulching with 1" of compost is optional.

- Flower Rotation: 1. Bulbs: Remove the entire plant and bulb after flowers have faded or at the direction of the owner, and install new plants if included in contract.
- 2. Summer Annuals or Fall Plants a. Dead heading: Pinch and remove dead flowers on annuals as necessary. b. Fertilizing Summer Annuals: Fertilize using one or two methods: Apply a

20-20-20 water-soluble fertilizers, not to exceed 2 pounds of 20-20-20 per 100

gallons of water, monthly; or mulch with compost 1" deep. c. Removal: If fall plants are to be installed, summer annuals shall be left in the ground

slow-release fertilizer in May following manufacturer's recommendations. A booster

such as 10-10-10 may be necessary in late summer. Or, apply liquid fertilizations of

until the first killing frost and then removed, unless otherwise directed by the owner.

1. After initial installation, if a time-released fertilizer has been incorporated during plant installation, no more fertilizer need be applied the first growing season.

- a. Fertilize perennials with a slow-release fertilizer or any 50% organic fertilizer, or
- mulch perennials with compost 1" deep.
- b. Cut all deciduous perennials flush to the ground by March 1, if this was not done the
- previous fall, to allow new growth to develop freely. c. Mulch the perennial bed once in early spring at 1"-2" depth. If soil is bared in late
- fall, re-mulch lightly after ground is frozen to protect perennials.
- d. Inspect for insect or disease problems on perennials. Monitor and control slugs on hostas and ligularias. Powdery mildew on phlox, monardas, and asters can be
- prevented with properly timed fungicides or use of disease-resistant varieties.
- e. Weed perennial bed as specified in "WEEDING" above.
- f. Prune branching species to increase density. Cut only the flowering stems after blooming. Do not remove the foliage. 3. The following fall cut back deteriorating plant parts unless instructed to retain for winter
- interest, e.g. Sedum Autumn Joy and ornamental grasses. 4. Long-term Care: a. Divide plants that overcrowd the space provided. Divide according to the species. Some need frequent dividing, e.g. asters and yarrow every two years; other rarely, if
- ever, e.g. peonies, hosta, and astilbe. b. For detailed information regarding the care of specific perennials, refer to All About Perennials by Ortho; Perennials: How to Select, Grow and Enjoy by Pamela Harper and Frederick McGouty, Hp Books Publisher; Herbaceous Perennial Plants: A Treatise on their Identification, Culture and Garden Attributes by Allan Armitage, Stipes Pub LLC.

7. Mechanically edge curbs and walks.

- 1. Soil analysis performed annually to determine pH. If pH does not fall within specified
- range, adjust according to soil test recommendations. 2. Maintain proper fertility and pH levels of the soil to provide an environment conducive to turf vitality for cool season grasses

5. Apply pre-emergent to turf in two applications in early February and early April to extend

- 3. Mow warm and cool season on a regular basis and as season and weather dictates. Remove no more than the top 1/3 of leaf blade. Clippings on paved and bed areas will
- be removed 4. Aerate warm season turf areas to maintain high standards of turf appearance.
- 6. Apply post emergent as needed to control weeds.
- 8. Apply non-selective herbicide, to mulched bed areas and pavement and remove excess runners to maintain clean defined beds.
- TREE, GROUNDCOVER, AND SHRUB BED MAINTENANCE 1. Prune shrubs, trees and groundcover to encourage healthy growth and create a natural appearance.
- Apply pre-emergent herbicides in February and April. Manual weed control to maintain clean bed appearance. 5. Apply fungicides and insecticides as needed to control insects and disease.

a balanced material (January/February, April/May, and October/November)

2. Mulch to be applied in February/March with a half rate in late summer to top dress.

6. Ornamental shrubs, trees and groundcovers to be fertilized three (3) times per year with

- 7. Edge all mulched beds. 8. Remove all litter and debris.
- **GENERAL MAINTENANCE** 1. Remove all man-made debris, blow edges. 2. Inspect grounds on a monthly basis and schedule inspection with Unit Operator.





Manley Land Design, Inc.

51 Old Canton Street

Alpharetta, Georgia 30009

770.442.8171 tel

5200 Buffington Road

Atlanta, Georgia 30349-2998



2

FSU# 05442

NO. DATE BY DESCRIPTION 1 8/25/23 DO City Comments

MLD PROJECT # 2023173 PRINTED FOR PERMIT 8/25/23

Information contained on this drawing and in all digital files

produced for above named project may not be reproduced in any manner without express written or verbal consent from authorized project representatives. **Landscape Maintenance** & Specifications

DRAWN BY

TTCDA & Development Plan File #s: 9-B-23-TOB / 9-C-23-DP

SHEET NUMBER