

CHEROKEE COUNTY BOARD OF COMMISSIONERS Purchasing Department 1130 Bluffs Pkwy, Canton, GA 30114 Ph: 678-493-6000 | Fax: 678-493-6035

ADDENDUM TWO

Solicitation Number: Solicitation Name: Addendum Release Date: 2024-023 New Construction, Cherokee County EMS Station #30 March 26, 2024

Prime Bidders/Proposers acknowledge the receipt of this Addendum by inserting the number and date in the appropriate position on the Proposal Form. Failure to do so may subject the Bidder/Proposer to disqualification. This Addendum is a part of the Contract Documents. It modifies them as follows:

<u>Item No. 1</u>

Section 02200 – Earthwork

Replace this section in its entirety (see attachment).

Item No. 2

Sheets C1.1, C2, C2.1, C3, C3.1, C4, C5, C7.2 and C7.3

Replace these Civil sheets in their entirety (see attachments).

Item No. 3

Sheets C6, C6.1, C6.2, C6.3, C6.4, C6.5, C6.6, C6.7, C6.8 and C7.4

Add these Civil sheets in their entirety (see attachments).

Item No. 4

Replace these Architectural sheets in their entirety (see attachments).

Item No. 5

Replace these Plumbing sheets in their entirety (see attachments).

Item No. 6

See attached Report of Environmental Services, as performed by NOVA on March 9, 2023, of our project property.

Sheets A1.1, A1.5, A4.1 and A5.1

<u>Section 02200</u>

Sheets P1.1 and P1.3

Supplemental Information

SECTION 02200 - EARTHWORK

Replaced in Addendum #2

PART 1 - GENERAL

1.01 SUMMARY

- A. THIS SECTION INCLUDES:
 - 1. Project conditions
 - 2. Quality assurance
 - 3. Rough Grading
 - 4. Proof rolling
 - 5. Submittals
 - 6. Excavating
 - 7. Backfill and fill
 - 8. Trenching
 - 9. Rock removal
 - 10. Disposal

1.02 RELATED DOCUMENTS / SECTIONS

A. Contract documents and drawings, geotechnical soils report (if available). Refer to appropriate related sections as necessary.

1.03 REFERENCES

- A. AASHTO M147 Materials for aggregate and soil aggregate.
- B. AASHTO T180 Moisture-Density Relations of Soils Using a 10-lb.
 (4.45 kg) Rammer and an 18-in. (457 mm) drop.
- C. ANSI/ASTM C136 Method for Sieve Analysis of Fine and Course Aggregates.
- D. ANSI/ASTM D698 Standard Proctor Test Test Methods for Moisture-Density Relations of Soils and Soil-Aggregate Mixtures, Using a 5.5 lb. (2.49 kg) Rammer and 12 inch (304.8 mm) drop.
- E. ANSI/ASTM D1557 Modified Proctor Test Test Methods for Moisture-Density Relations of Soils and Soil-Aggregate Mixtures Using 10 lb. (4.45 kg) Rammer and 18 inch (457 mm) Drop.
- F. ASTM D2167 Test Method for Density and Unit Weight of Soil in Place by the Rubber Balloon Method.
- G. ASTM D2487 Classification of Soils for Engineering Purposes.
- H. ASTM D2922 Test Methods for Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth).

- I. ASTM D3017 Test Methods for Moisture Content of Soil and Soil-Aggregate Mixtures.
- J. ASTM D4318 Test Method for Liquid Limit, Plastic Limit, and Plasticity Index of Soils.
- K. ANSI/ASTM D1556 Test Method for Density of Soil using the Sand-Cone Method.
- L. GE Geotechnical Engineer, Engineering Report, Recommendations.
- M. NFPA Code for explosive materials

When standards or specifications are indicated herein by reference, the referenced portion shall apply to the most recent edition of the publication and shall have the same force and effect as if they were included herein in their entirety.

1.04 REGULATORY REQUIREMENTS

- A. Verify and comply with all Federal, OSHA, State, County, City or local requirements concerning earthwork, excavation, and related activities.
- B. When any construction, materials, or specifications for the same or similar item(s) are shown in more than one place in the construction documents, plans, or specifications, the more stringent requirement shall apply as determined by the Engineer.

C. WARNING:

CONTRACTOR SHALL: COMPLY WITH ALL OSHA, FEDERAL, STATE, LOCAL, AND INDUSTRY STANDARD SAFETY MEASUES, **DEVICES, PROCEDURES, PRECAUTIONS, AND EQUIPMENT FOR** ALL WORK OR OTHER ACTIVITIE(S). NO PERSON(S) SHALL ENTER MANHOLES, CONFINED SPACES, OR OTHER **UNDERGROUND STRUCTURES, SPACES, TRENCHES, OR EXCAVATIONS WITHOUT PROTECTIVE BREATHING APPARATUS** AND ALL OTHER REQUIRED SAFETY MEASURES, DEVICES, **PROCEDURES, AND EQUIPMENT, AND AT LEAST ONE OTHER** PERSON PRESENT ABOVE GROUND FOR SAFETY AND MONITORING AT ALL TIMES. CONTRACTOR SHALL PROVIDE AND ENSURE USE OF SAFETY KITS, HELMETS, GLOVES, **EMERGENCY OXYGEN RESUSCITAOR KITS, AND AIR QUALITY** AND GAS DETECTORS FOR VOLATILE, TOXIC, OR EXPLOSIVE GASES OR SUBSTANCES. VERIFY SAFE OXYGEN CONTENT PRIOR TO ENTERING MANHOLES, CONFINED SPACES, OR **OTHER UNDERGROUND STRUCTURES.**

1.05 PROJECT CONDITIONS

- A. Site information: All earthwork, cutting, filling, compaction, and related operations shall conform to the requirements and recommendations of the geotechnical Soils Engineer. In the absence of a qualified geotechnical Soils Engineer, the Contractor shall be fully responsible for the integrity, suitability, quantity, compaction, selection, and quality of the soils used in the completion of the Work.
- B. Protection of persons and property:
 - 1. Barricade all open excavations occurring as part of this work and post with warning lights.
 - 2. Operate warning lights or devices for all excavations, restricted or dangerous areas, or other areas as required for safety of all person(s) onsite or in the work area, as required BY OSHA, Federal, State, and local laws, or recommended by authorities having jurisdiction. All warning lights or devices shall be illuminated for night or low visibility conditions.
 - 3. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, or other hazards created by earthwork operations.
 - 4. The Contractor, and all sub-contractors, shall be responsible for all safety measures, procedures, or devices as required by OSHA, Federal, State, or local authorities. No person shall enter a manhole or other underground structure without protective breathing apparatus, and at least one other person present for safety. All earthwork, trenching, and grading operations shall conform to minimum OSHA requirements for safety, shoring, bracing, and protective measures.
- C. The Contractor is solely responsible for construction staging, phasing, and sequencing. Wet soils and wet soil remediation due to rainfall will not be justification for additional costs.

1.06 QUALITY ASSURANCE

A. Testing and Inspection service: Contractor shall employ and pay for a qualified independent Geotechnical Engineer (GE) and geotechnical testing laboratory to perform soil testing and inspection services during earthwork operations and as specified by the Architect/Engineer. All testing, earthwork, excavation, cut and fill operations and associated work shall comply with GE recommendations and standards at a minimum. GE shall be subject to approval of Owner/Architect/Engineer.

- B. Testing Laboratory Specifications: The Contractor shall obtain approval from the Owner/Architect/Engineer for the (GE) and the Testing Laboratory prior to beginning work.
- C. Field Testing: Allow testing laboratory to test and approve each subgrade and fill layer before further backfill or construction is performed.
 - 1. Field density tests shall be in accordance with ASTM D 698.
 - 2. The placement, location, number, and frequency of tests shall be as directed by the Geotechnical Engineer or authorized qualified Technician (GE or GT.)

1.07 SUBMITTALS

- A. Test reports: Submit the following test reports <u>directly to the Architect</u>, <u>Engineer</u>, and <u>Owner or Owner's representative</u> from the Testing Laboratory, with a copy to the Contractor:
 - 1. Test reports on borrow material.
 - 2. Field reports, in-place soil density tests.
 - 3. One optimum moisture-maximum density curve for each soil type encountered.
 - 4. Report of actual unconfined compressive strength and/or results of bearing tests of each strata tested.
 - 5. Topographic as-built survey (2.04 F)

PART 2 - EXECUTION

2.01 ROUGH GRADING

A. Definition: Cutting, grading, filling, and rough contouring the site for building pads, structures, paving areas, or other improvements.

2.02 EXAMINATION

A. All existing contours, elevations, structures, utilities, and other

improvements shown on the plans are taken from the best information available at the time and are believed to be reasonably true and correct. Any errors, omissions, or discrepancies between the actual field conditions and the plans discovered during construction must be reported immediately to the Architect and the Engineer. Any work done by the Contractor after such discovery without written approval from the Architect or Engineer will be at the Contractor's risk.

2.03 PREPARATION

- A. Identify and verify required lines, levels, contours, and datum.
- B. Utilities: Stake and flag locations of all utilities. Coordinate with all utilities and have existing locations clearly marked prior to construction. Protect above and below grade utilities to remain from damage. Notify prior to construction and coordinate with any utilities that will require removal and/or re-location.
- C. Provide protective measures or devices for all existing features to remain, including but not limited to: trees and vegetation, existing buildings and appurtenances, adjacent property improvements, or other structures.

2.04 EXCAVATION

- A. General: Comply with safety requirements of all Federal, State, County, City, or local authorities having jurisdiction.
- B. Excavate subsoil as shown on approved plans. Make grade changes gradual. Blend slopes into level areas.
- C. EARTHWORK VOLUME(S) FOR CUT AND FILL WILL NOT BALANCE. The contractor is solely responsible for establishing finished grades as shown on approved plans, including any earthwork export (haul-off) or earthwork import (offsite hauled in) required to establish permanent grades. All exported earthwork shall be disposed of offsite in a legal manner by the contractor. All imported earthwork shall be approved suitable material documented by the GE for conformity with specifications, intended use, and volume(s) imported.

- D. Provide Temporary Dewatering as required to facilitate all proposed earthwork and construction. See Dewatering specifications.
- E. Tolerances: Top surface of subgrade: Plus or minus 1/10 foot, provided positive drainage is established according to the design intent of the plans and specifications.
- F. As-Built topographic survey:

After rough grades are established, and before building foundations or other site improvements begin, the Contractor shall provide to the Owner at Contractor's expense an as-built topographic survey of the grades and graded areas as shown on the approved plans. The as-built topographic survey must be signed and sealed by a registered Surveyor licensed in the State where the project is located, and must show grading elevations, slopes, and contours to the extent necessary for the Owner to verify that the grading is in compliance with the approved plans and specifications. Do not proceed with any work in any area of the site until Owner is satisfied with results of as-built topographic survey. It is the Contractor's responsibility to schedule the as-built survey and account for the required time to complete the review process with the Owner to avoid delays to the project schedule.

G. All soils used for fill in earthen dams or water impoundment areas shall be ML or CL low plasticity clays per the Unified Soil Classification, and must be approved by the Geotechnical Engineer. All organics, topsoil, or other unsuitable material shall be removed from the entire fill area. All fill shall be placed in maximum 6 inch lifts, minimum compaction is 95% of standard maximum density. No gravel, aggregate or gravel pipe bedding, or any pervious material shall be placed in the dam or fill area(s) or adjacent to any water impoundment perimeter(s). Scarify existing subgrade prior to placing fill.

2.05 ROCK EXCAVATION

- A. Rock excavation shall consist of all material which cannot be excavated except by drilling, blasting or wedging. It shall consist of undecomposed stone hard enough to ring under a hammer, and the amount of solid stone shall be not less than one (1) cubic yard in volume. Rock is further defined as follows:
- 1. General Excavation: Any material occupying an original volume of more than one cubic yard which cannot be excavated with a single-

tooth ripper drawn by a crawler tractor having a minimum draw bar pull rated at not less than 80,000 pounds sable pull (Caterpillar D-8 or larger), see 2.05(B).

- 2. Trench Excavation: Any material occupying an original volume of more than one half cubic yard which cannot be excavated with a backhoe having a bucket curling force rated at not less than 40,000 pounds, using a rock bucket and rock teeth (a John Deere 790 or larger).
- B. When rock is encountered, the earth shall be cleared away and any rock shall be exposed for classification.

Rock must be classified and verified as follows:

In the presence of the Owner, Architect, Engineer, and the Testing Lab, at the expense of the Contractor, rock must be pulled in three different and distinct directions with a singletooth ripper drawn by a crawler tractor having a minimum draw bar pull rated at not less than 80,000 pounds sable pull (Caterpillar D-8 or larger). After pulling in three different directions, rock shall be classified according to 2.05 (A) (1.)

The Architect/Owner/Engineer shall be notified before any rock has been blasted or removed in any way.

- C. Boulders over one (1) cubic yard or rock as defined above shall be removed at a contractual unit price. Once rock is uncovered, grading sections shall be taken. When rock is completely removed, new grading sections shall be taken to determine the quantity of rock removed. Contractor shall bear the expense of taking grading sections.
- D. All blasting shall be done in accordance with local ordinances, and permits shall be obtained where required by law.
- E. Rock that is removed shall become the property of the Contractor and shall be removed from the site and/or buried as allowed by the specifications, and subject to GE approval.
- F. Decomposed rock and similar material that can be removed by tractor drawn ripper or power machinery as previously mentioned will be classified as earth excavation.
- G. When rock is encountered, clear away earth and notify Architect/Owner/Engineer. Architect/Engineer will inspect material and

issue written instructions. No rock excavation shall be done without written instructions. No rock excavation shall be done prior to measurement.

- E. Measurement for Rock Excavation shall be as follows:
 - 1. Mass Rock:
 - a. Measurement for mass rock shall be made by taking cross sections or by other appropriate means identifying the contours of rock before and after removal. All rock measurements shall be made and certified by an independent licensed surveyor or engineer approved by the Architect.
 - b. Rock removed prior to measurement shall not receive compensation.
 - c. The quantity of rock shall be calculated using the following limits:
 - 1. To top of rock
 - 2. To 1.0 feet below finished grade of roadway
 - 3. To vertical lines at back of curb
 - 4. To 1.0 feet below foundations and footings
 - 5. To vertical faces located 1.0 feet horizontal distance from each footing or foundation face
 - 6. To 0.5 feet below slabs on grade
 - 7. To finish grade in cut where rock is removed to finish grade. Where it is not so removed, to the finish rock surface.
 - 2. Trench Rock:
 - a. Measurement for trench rock shall be made by taking level readings at reasonable intervals but not more than 10 feet along the exposed trench length before removal of rock. All rock measurements shall be made and certified by an independent licensed surveyor or engineer approved by the Owner/Architect.
 - b. Rock removed prior to measurement shall not receive compensation.

- c. The quantity of rock shall be calculated using the following limits:
 - 1. To top of rock
 - 2. To vertical faces 1.0 feet beyond the outside of pipe barrel, each side
 - 3. To 12 inches below pipe barrel for the full trench length having rock
 - 4. To vertical faces located 1.0 feet horizontal distance beyond structures or manholes
 - 6. To 6 inches below bottom of slab for structures
- E. Blasting or explosives:
 - 1. All blasting or use of explosives shall be done by a company with at least five years documented experience specializing in use of explosives for disintegration of rock.
 - All blasting or use of explosives shall be done in strict accordance with the local authority having jurisdiction. Obtain all necessary permits or approvals prior to use of explosives. The Contractor is responsible for all Federal, State, and local safety requirements, ordinances, or laws regarding the use of explosives.
 - 3. The Contractor shall conduct a survey with photographs of to document existing conditions of buildings adjacent to or near the location of rock removal prior to blasting. The Contractor shall advise and coordinate with all affected adjacent or nearby property owners in writing of the proposed blasting schedule. Obtain a seismic survey prior to rock excavation to determine maximum charges which may be used without damaging adjacent property, buildings, or structures. Provide seismographic monitoring during all blasting operations.
 - 4. All blasting shall be completed before footings or foundation construction begins.
 - 5. Rock which is removed shall become the property of the Contractor and shall be removed from the site and disposed of in a legal manner.
 - 6. When rock is encountered, the Contractor shall immediately notify the Engineer in writing. Classification of rock and volume

calculations shall be done in accordance with the specifications and as directed by the Architect. The Engineer and/or the Architect will issue written instructions to the Contractor concerning rock work prior to any rock removal.

7. Payment will not be made for over excavated rock or for replacement materials.

2.06 BACKFILL AND FILL

- A. Fill materials: Fill shall be clean inorganic natural soil. Structural fill shall contain no rock fragments larger than 3 inches in the longest dimension. Soils proposed for fill shall have a target maximum dry density of 100 pounds per cubic foot or greater in Standard Proctor Compaction Test ASTM D698 or as directed by the GE. All fill materials must be approved by the Soils Engineer prior to placement. In the absence of a Soils Engineer, the Contractor is fully responsible for material or soil selected for fill. Any fill containing large quantities of rock or weathered rock shall not be used as structural fill.
- B. The Contractor shall coordinate testing as required by the Soils Engineer (GE) for all fill materials prior to their use.
- C. Execution: Placed fill materials used in backfilling or filling in layers shall not exceed the following loose depths or as directed by the Soils Engineer (GE):
 - 1. Heavy equipment compaction: 6-8 inches
 - 2. Hand operated tampers: 4-6 inches
- D. All areas of existing subgrade which require remediation, or are not capable of in-place compaction, shall be excavated and backfilled with structural fill material compacted to a density equal to or greater than requirements for subsequent fill material layers.
- E. Place fill simultaneously on opposite sides of walls, small structures, utility lines, trenches, etc. to avoid displacement or over stressing.
- F. In-place density requirements: Compact soil to not less than the values given below, expressed as a percentage of maximum dry density at optimum moisture content per ASTM D698:

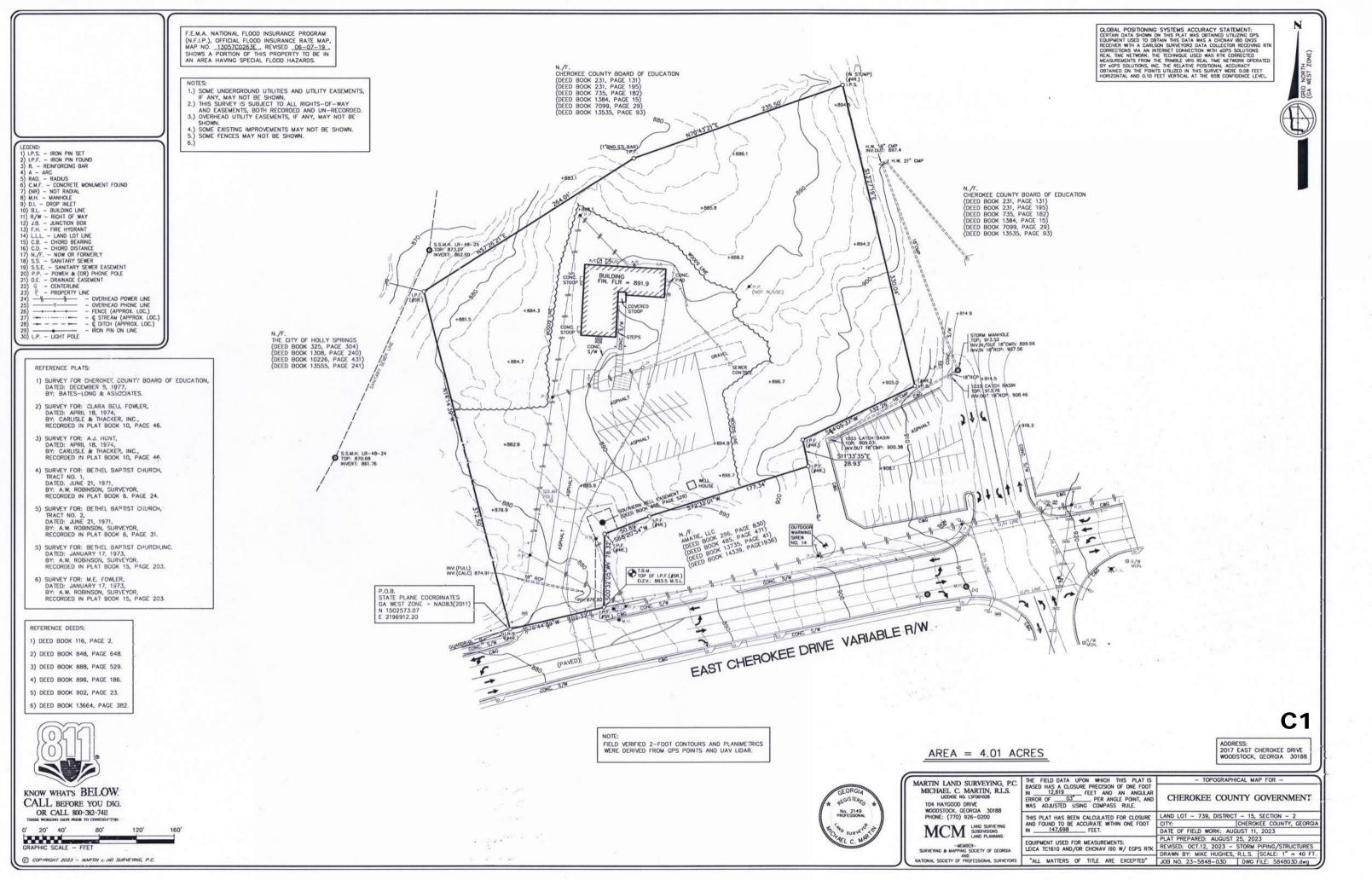
- Structural fill: Paved areas, buildings, footings, structures, etc.: 95 percent minimum unless noted otherwise, or as recommended by the Geotechnical Engineer or the Geotechnical subsurface exploration analysis and evaluation, whichever is greater.
- 2. Unpaved non-structural areas: 90 percent
- 3. Exterior steps, walks, ramps, etc.: 95 percent
- 4. Compacted fill behind walls: 95 percent
- G. Moisture Control: During compaction, control moisture of subgrades and subsequent lifts to within optimum moisture content tolerances as recommended by the GE. Wet surface or aerate soil as required.
- H. Backfilling:
 - 1. Backfill areas to contours and elevations shown with approved unfrozen materials.
 - Systematically backfill to allow maximum time for natural settlement. Do not backfill over porous, wet, or spongy subgrade surfaces.
 - 3. Maintain moisture content within optimum range as specified by the GE.
 - 4. Compaction: See 2.06 (F) above.
 - 5. Slope grades away from buildings or other structures which may be damaged by water a minimum of 2 inches in 10 feet, unless noted otherwise.
 - 6. Tolerances: Plus or minus 1/10 foot.
- I. Protection of finished work: Protect all finished work. Re-shape and recompact fills subjected to vehicular traffic as necessary.

2.07 TRENCHING

- A. Comply with all Federal, OSHA, State, County, City or local regulations regarding safety and construction. See Section 1.05 (4).
- B. Maintain and protect all utilities above and below ground designated to remain. Contractor to coordinate with all utilities and authorities having jurisdiction regarding construction procedures such as utility service connections, maintenance of service(s), notification procedures, tapping or extension specifications, and other related items.

- C. Cut trenches sufficiently wide to enable installation and inspection. The minimum bedding for all pipes is Class B as shown on the plans unless specified otherwise.
- D. Backfill trenches to correct elevations with approved materials only. Do not backfill over porous, wet, or spongy subgrade surfaces.
- E. Maintain maximum moisture content range to ensure required compaction density.
- 2.08 DISPOSAL
 - A. The contractor shall remove from the Owner's property all waste material, unsuitable excavated material, trash and debris, and dispose of it offsite in a legal manner.
- 2.09 GEOTECHNICAL SOILS STUDY
 - A. If a Geotechnical Soils Study has been performed, a copy of the Geotechnical Soils Study will be made available to the Contractor or included in the specifications following this Section. The Soils Study is for <u>reference only</u>. All conclusions, estimates, or decisions made regarding the contents of the Study are the sole responsibility of the person(s) reading the Study.

END OF SECTION 02200



DEMOLITION NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ALL LOCATION, VERIFICATION, PROTECTION, MAINTENANCE, RELOCATION, REMOVAL OR **RENOVATION OF ALL EXISTING UTILITIES, SITE** IMPROVEMENTS, STRUCTURES, OBJECTS, OR CONSTRUCTION ELEMENTS REQUIRED TO COMPLETE THE WORK SHOWN ON THE PLANS, NOTES, SPECIFICATIONS, AND CONTRACT DOCUMENTS, WHETHER SHOWN ON THE PLANS OR NOT. ITEMS SHOWN AS [DE], [TR], [TBR], OR OTHERWISE [] DESIGNATED ARE SHOWN FOR GENERAL REFERENCE ONLY, AND ARE NOT ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR ALL ITEMS TO BE REMOVED [TBR], ALL ITEMS TO REMAIN [TR], AND ALL ITEMS REQUIRING DEMOLITION [DE], RELOCATION, ALTERATION, AND PROTECTION WHETHER DESIGNATED ON THE PLANS OR NOT. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING IMPROVEMENTS AND SITE CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION. 2. CONTRACTOR SHALL COORDINATE AND VERIFY ALL DEMOLITION, REMOVAL, AND ASSOCIATED

WORK WITH THE OWNER OR OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION. 3. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR EXISTING AND PROPOSED BUILDING DEMOLITION, REMOVAL, AND RENOVATION.

4. CONTRACTOR SHALL:

CONTACT UPC (UTILITIES PROTECTION CENTER) FOR LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. UTILITIES ARE SHOWN ACCORDING TO INFORMATION AVAILABLE AND MAY NOT BE ACCURATE. UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON PLANS. OBTAIN APPROVAL FROM ALL LOCAL UTILITY AUTHORITIES AND LOCATE, VERIFY, AND COORDINATE ALL REQUIRED CONSTRUCTION FOR ALL UTILITIES WITHIN THE WORK AREA. MAINTAIN UTILITY SERVICE(S) AT ALL TIMES, COORDINATE CONSTRUCTION SEQUENCE ACCORDINGLY. PROVIDE OWNER/ENGINEER COMPLETE RESULTS OF ALL UTILITY LOCATION(S) PRIOR TO CONSTRUCTION.

5. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL IMPROVEMENTS, INCLUDING LANDSCAPING, NOT REQUIRING REMOVAL. DAMAGED IMPROVEMENTS SHALL BE RESTORED

AT CONTRACTOR'S EXPENSE. 6. CONTRACTOR SHALL HAVE PROPERTY CORNERS, RIGHT-OF-WAY, AND BOUNDARY

MARKED AND LOCATED. DO NOT ENCROACH ON ADJACENT PROPERTIES.7. CONTRACTOR SHALL COORDINATE ALL DEMOLITION ADJACENT TO STRUCTURES OR

FOUNDATION ELEMENTS WITH THE ARCHITECT AND STRUCTURAL ENGINEER TO ENSURE THAT NO DAMAGE OR DEGRADATION WILL OCCUR. 8. CONTRACTOR SHALL BLEND NEW

CONSTRUCTION INTO EXISTING IMPROVEMENTS. ALL JUNCTIONS, COMMON POINTS, JOINTS, ETC. SHALL BE BLENDED FOR A SMOOTH TRANSITION. ALL DAMAGED IMPROVEMENTS SHALL BE RESTORED BY THE CONTRACTOR TO ORIGINAL CONDITION AT NO EXPENSE TO OWNER. 9. CONTRACTOR IS RESPONSIBLE FOR THE SAFETY OF THE PUBLIC AND ALL OTHER PERSONS ONSITE AT ALL TIMES. CONTRACTOR SHALL CONFORM TO ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS AND REGULATIONS. 10. SEE DEMOLITION LEGEND SHEET C2.1

DEMOLITION LEGEND:

[CU] COORDINATE UTILITIES:

CONTACT UTILITY LOCATION AUTHORITY AND VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION. COORDINATE ALL EXISTING AND PROPOSED UTILITY CONSTRUCTION, REMOVAL, ALTERATION, RENOVATION, OR RELOCATION REQUIRED TO COMPLETE THE WORK WITH THE APPROPRIATE UTILITY AUTHORITY. RESOLVE ALL CONFLICTS, OMISSIONS, OR DISCREPANCIES PRIOR TO CONSTRUCTION.

[DE] DEMOLITION REQUIRED:

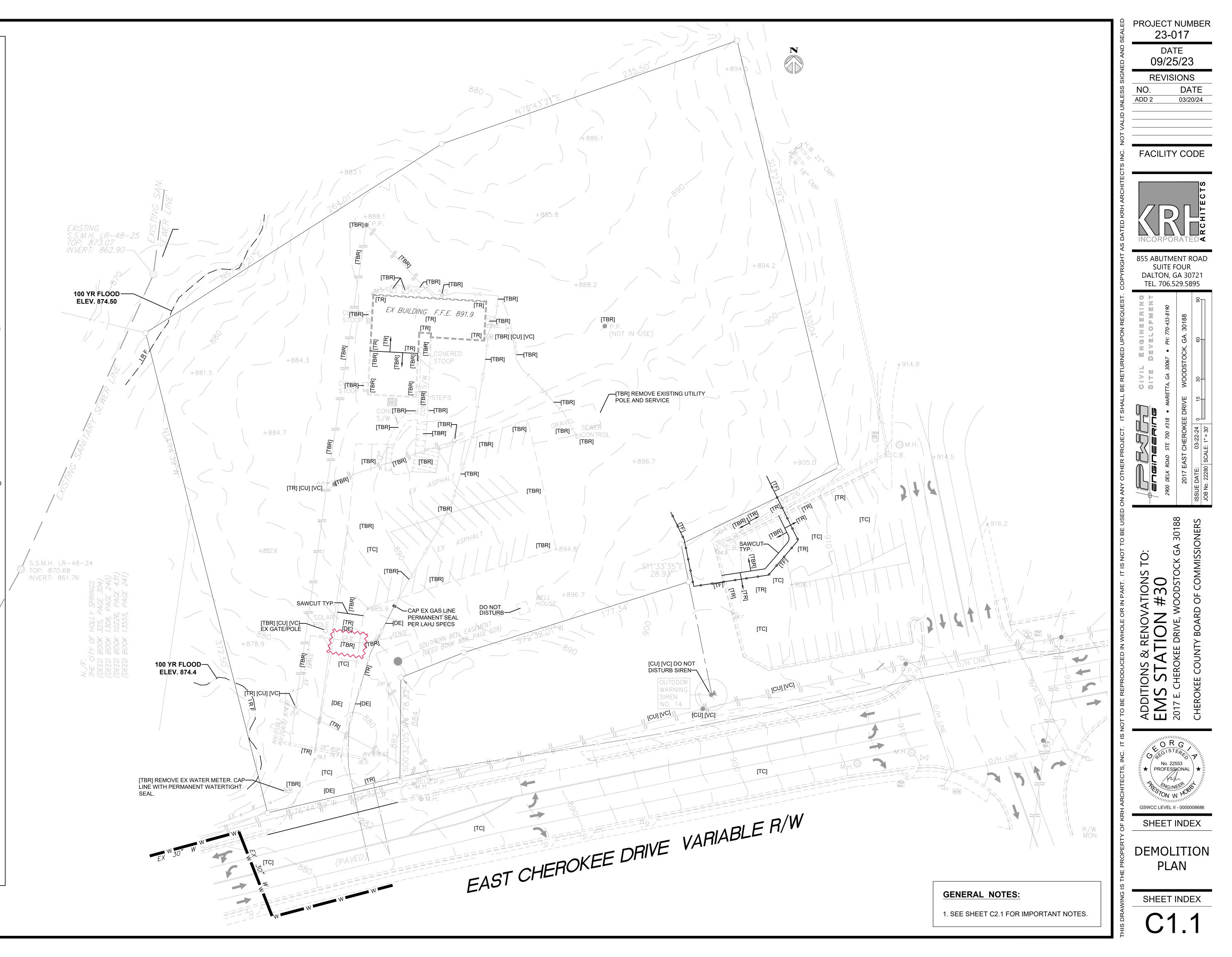
DEMOLITION, ALTERATION, RENOVATION, OR PARTIAL REMOVAL REQUIRED. CONFORM TO APPLICABLE ARCHITECTURAL AND/OR RELATED ENGINEERING PLANS AND SPECIFICATIONS. MAINTAIN UTILITIE(S) SERVICE AT ALL TIMES. COORDINATE UTILITIES [CU] WITH APPROPRIATE AUTHORITY.

[TBR] TO BE REMOVED:

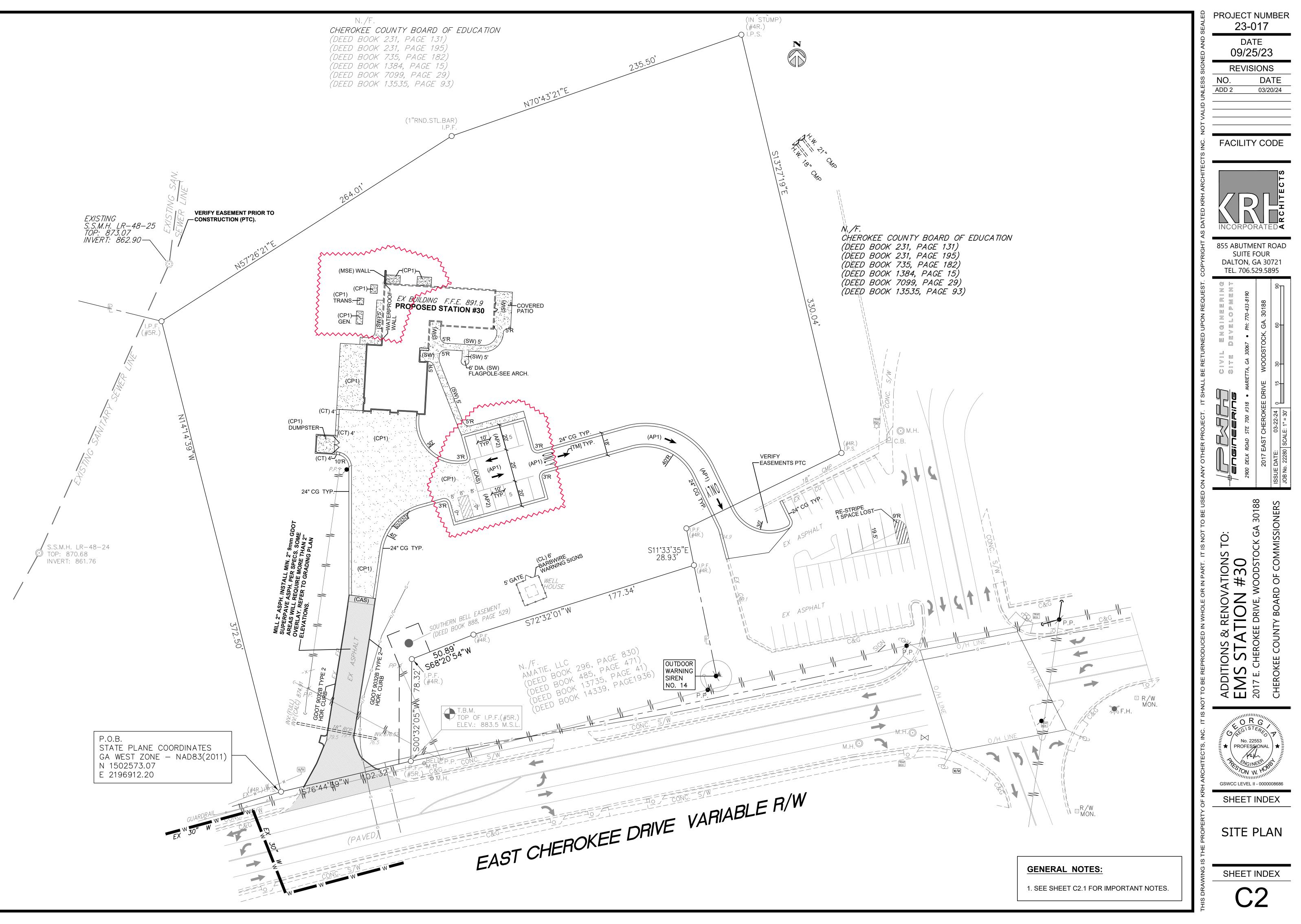
EXISTING IMPROVEMENT OR ITEM TO BE REMOVED. LOCATE, VERIFY, AND REMOVE. DISPOSE OF OFF SITE IN A LEGAL MANNER. FOR UTILITIES, MAINTAIN SERVICE AT ALL TIMES. COORDINATE ALL UTILITY REMOVAL OR ALTERATION WITH APPROPRIATE UTILITY AUTHORITY.

[TR] TO REMAIN:

EXISTING IMPROVEMENT OR ITEM TO REMAIN. LOCATE, VERIFY, MARK, AND PROTECT FROM DAMAGE BY ALL NECESSARY MEANS. FOR UTILITIES, MAINTAIN SERVICE AT ALL TIMES.



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CHEROKEE COUNTY NOTES:

1. ALL WETLANDS OR STATE WATERS ON OR WITHIN 200 FEET OF THIS PROJECT HAVE BEEN DELINEATED.

2. APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY CHEROKEE COUNTY OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONTRACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY WETLAND THAT IS DISTURBED.

3. APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY CHEROKEE COUNTY OF ANY LAND DISTURBING ACTIVITIES THAT MAY IMPACT ANY ENDANGERED SPECIES. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONTACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY DISTURBANCE WHICH THIS MAY EFFECT. 4. NO RETAINING WALLS WILL BE CONSTRUCTED.

5. ANY FILL MATERIAL SUPPORTING STRUCTURAL LOADS SHALL BE ENGINEERED WITH PROPER DOCUMENTATION INCLUDING GEORGIA REGISTERED P.E. STAMP. SUBMIT DOCUMENTATION TO THE CHEROKEE COUNTY BUILDING DEPARTMENT PRIOR TO FOUNDATION INSPECTION. 6. SITE DEVELOPMENT AS-BUILT DRAWINGS, CONTAINING A BOUNDARY SURVEY, LOCATION, ELEVATION, HEIGHT, AND SQUARE FOOTAGE OF BUILDING, PARKING AREAS, UTILITIES, RETAINING WALLS, STORMWATER SYSTEM, AND ANY OTHER PERTINENT SITE DEVELOPMENT DATA ARE REQUIRED UPON COMPLETION OF THIS PROJECT. CHEROKEE COUNTY NEEDS THIS INFORMATION BEFORE SITE INSPECTION FOR C.O. IS ISSUED, PER ORDINANCE # 2004-Z-001 (7.5-3.3-H.)

7. TEMPORARY GRASSING OR MULCHING IS REQUIRED EVERY (7) SEVEN DAYS. 8. AN NOI IS REQUIRED BEFORE APPROVAL. UPLOAD THE FINAL DOCUMENT TO CITYVIEW.

9. ADVANCE WARNING SIGNS INDICATING CONSTRUCTION AHEAD SHALL BE PLACED ON CONNECTING THOROUGHFARES AT 1000' AND 500' POINTS ON EITHER SIDE OF THE INTERSECTION. THE SIGNAGE SHALL BE REVIEWED AND APPROVED BY THE COUNTY DEVELOPMENT INSPECTOR. AN NOI IS REQUIRED BEFORE APPROVAL. PROVIDE A COPY OF THE FINAL, APPROVED NPDES NOTICE OF INTENT (NOI) ENSURING COMPLIANCE WITH

THAT STATE PERMIT AND WRITTEN CONFIRMATION FROM A QUALIFIED PARTY WHO WILL BE RESPONSIBLE FOR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) COMPLIANCE INSPECTIONS, MONITORING, RECORD KEEPING, ETC. FOR THE DEVELOPMENT

10. NO GRADING ALLOWED WITHIN THE UNDISTURBED STREAM BUFFERS OR ZONING BUFFERS.

11. ALL QUALITY CONTROL TESTING WHICH IS A PART OF ROADWAY CONSTRUCTION WILL BE PERFORMED BY A REPUTABLE PROFESSIONAL GEO-TECHNICAL AND TESTING ENGINEERING COMPANY THAT WILL BE EMPLOYED BY THE DEVELOPER AND ALL ASSOCIATED COSTS WILL BE PAID BY THE DEVELOPER.

AN NOI IS REQUIRED BEFORE APPROVAL. PROVIDE A COPY OF THE FINAL, APPROVED NPDES NOTICE OF INTENT (NOI) ENSURING COMPLIANCE WITH THAT STATE PERMIT AND WRITTEN CONFIRMATION FROM A QUALIFIED PARTY WHO WILL BE RESPONSIBLE FOR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) COMPLIANCE INSPECTIONS, MONITORING, RECORD KEEPING, ETC., FOR THE DEVELOPMENT.

CHEROKEE COUNTY TRAFFIC NOTES:

1. BASED ON THE SURVEY, THE SITE IMPROVEMENTS CONSTRUCTED AS PROPOSED WILL PROVIDE THE INTERSECTION SIGHT DISTANCE AS SHOWN. FIELD VERIFICATION WILL BE PROVIDED TO THE COUNTY PRIOR TO FINAL SITE ACCEPTANCE.

2. ALL CUTS IN PAVEMENT AND PAVEMENT EDGES ADJOINING NEW PAVEMENT SHALL BE SAW CUT. ALL RIGID PAVEMENT TO RIGID PAVEMENT SHALL BE DOWELED WITH NO. 4 BARS SPACED 12-INCHES ON CENTER AND GROUTED. 3. ALL PAVEMENTS STRIPING AND MARKINGS SHALL BE THERMOPLASTIC PER GEORGIA D.O.T. SPECIFICATIONS

4. LIABILITY AND RESPONSIBILITY OF APPLICANT: THE APPLICANT IS RESPONSIBLE FOR THE RELOCATION, ADJUSTMENT OR REMOVAL OF ALL UTILITY CONFLICTS WITHIN THE DEVELOPMENT AREA AT NO COST TO CHEROKEE COUNTY. THE COUNTY ENCOURAGES THE APPLICANT TO CONTACT THE UTILITIES PROTECTION CENTER (UPC) FOR "DESIGN LOCATE REQUESTS" WHICH AIDS IN THE LOCATION OF EXISTING UTILITY FACILITIES FOR PRE-DESIGN, ADVANCE PLANNING PURPOSES, ETC. EXCAVATORS SHALL CONTACT THE UPC IN ACCORDANCE WITH THE OFFICIAL CODE OF GEORGIA ANNOTATED 25.9, BEFORE COMMENCING **EXCAVATION ACTIVITIES.**

5. OWNERSHIP OF COMPLETED WORK: MEDIAN CROSSOVERS. RIGHT-TURN/DECEL LANES, LEFT TURN LANES, ETC. CONSTRUCTED WITHIN COUNTY RIGHT OF WAY BECOMES FEATURES OF THE HIGHWAY AND THE UNCONDITIONAL PROPERTY OF THE COUNTY. THE APPLICANT OR PROPERTY OWNER(S) AND/OR LESSEES ADJACENT TO THE RIGHT OF WAY AT THE CROSSOVER SITE RETAIN NO OWNERSHIP OR LEGAL INTEREST THEREIN. THE COUNTY RESERVES THE RIGHT AND ALL AUTHORITY TO CLOSE, RELOCATE OR REMOVE A CROSSOVER WHEN SUCH ACTION IS DEEMED NECESSARY IN THE INTEREST OF PUBLIC SAFETY OR EFFICIENCY OF THE ROADWAY.WHEN DETERMINED NECESSARY BY THE COUNTY, ADDITIONAL RIGHT OF WAY FOR THE CONSTRUCTION AND PLACEMENT OF AUXILIARY LANES SHALL BE RELINQUISHED TO THE COUNTY (MINIMUM 13-FEET FROM BACK OF CURB).

CHEROKEE COUNTY FIRE DEPARTMENT NOTES:

A. THE FOLLOWING PLANS HAVE BEEN REVIEWED BY THE CHEROKEE COUNTY FIRE MARSHAL'S OFFICE. THE DRAWINGS WERE REVIEWED UNDER THE APPLICABLE LAWS ADOPTED AT THE TIME. EVERY EFFORT WAS MADE TO ENSURE CODE COMPLIANCE. ANY CODE VIOLATIONS THAT WERE MISSED DURING THE PLAN REVIEW ARE THE OWNER'S RESPONSIBILITY AND MUST BE CORRECTED TO RECEIVE FINAL APPROVAL AND/OR A CERTIFICATE OF OCCUPANCY (CO). B. ALL SITE WORK MUST HAVE A MINIMUM OF A PRECONSTRUCTION MEETING WITH THE CHEROKEE COUNTY FIRE MARSHAL'S OFFICE. AT THE PRE-CONSTRUCTION MEETING, IT WILL THEN BE DETERMINED WHAT OTHER INSPECTIONS WILL BE REQUIRED.

C. ALL FIRE INSPECTIONS ARE SCHEDULED THROUGH THE CITYVIEW PORTAL UNDER THE SAME PERMIT NUMBER AS THE LAND DISTURBANCE PERMIT. THIS MUST BE DONE BY THE CONTRACTOR.

CONSTRUCTION LEGEND:

[AT] STRUCTURE TOP ADJUSTMENT: RAISE, LOWER, MOVE, ALTER, ADD OR ADJUST EXISTING MANHOLE OR OTHER STRUCTURE TOP, BOX, RING AND COVER AS REQUIRED FOR PROPOSED CONSTRUCTION. REFERENCED STANDARDS, DETAILS, AND SPECIFICATIONS APPLY AS MINIMUM REQUIREMENTS. STRUCTURE TOPS SHALL BE EVEN WITH FINISHED PAVEMENT IN PAVED AREAS AND RATED FOR TRAFFIC IN TRAFFIC AREAS. STRUCTURE TOPS SHALL BE 6 INCHES ABOVE FINISHED GRADE IN UNPAVED AREAS.

[CA] CONTROLLED ACCESS:

PROVIDE CONTROLLED ACCESS TO PROJECT SITE USING LOCKING GATES, TRAFFIC CONTROL [TC], AND PERSONNEL TO MONITOR ACCESS AND PROHIBIT UNAUTHORIZED ENTRY TO THE SITE. PROVIDE ALL WARNING, INSTRUCTIONAL, AND DIRECTIONAL SIGNAGE TO INFORM PUBLIC AND MAINTAIN SAFE CONTROLLED ACCESS AT ALL TIMES. ALL GATES SHALL BE LOCKED AT ALL TIMES EXCEPT FOR AUTHORIZED ENTRY. PROVIDE TEMPORARY FENCING TO PROHIBIT AND CONTROL ACCESS. COORDINATE WITH OWNER AND MAINTAIN SAFE ACCESS FOR NORMAL OPERATION AND FUNCTION. ACCESS POINTS ADJACENT TO OCCUPIED SPACES OR FINISH AREAS SHALL BE SECURE, WATERTIGHT, AND PROTECTED FROM DUST, NOISE, WIND, AND WEATHER. CONTROLLED ACCESS POINTS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION UNTIL FINAL RELEASE BY OWNER.

[CS] CRITICAL SLOPE:

SLOPE SHOWN IS LESS THAN 1 FOOT PER 100 FEET (1.0%). CONTRACTOR SHALL USE LASER GUIDED EQUIPMENT AND PROVIDE ALL NECESSARY MEASURES TO ENSURE FINAL GRADE IS ESTABLISHED AS DESIGNED. CONSTRUCTION TOLERANCE IS NOT ALLOWED FOR CRITICAL SLOPES OR GRADES. NO PONDING OR DEPRESSED AREAS ALLOWED.

[CT] CURB TAPER:

CONTRACTOR SHALL: TAPER CURB HEIGHT FROM STANDARD HEIGHT TO 0" HEIGHT FOR LENGTH SHOWN ON PLANS. END OF TAPER SHALL BLEND SMOOTH INTO PROPOSED FINISH GRADES SO THAT 0" (ZERO INCHES) CURB HEIGHT WILL MATCH ADJACENT PAVEMENT, IMPROVEMENTS, AND/OR FINISH GRADES. PROVIDE EXPANSION JOINT AT INTERFACE. ALL SIDEWALKS ADJACENT TO CURB TAPERS (CT) SHALL BE TAPERED TO MATCH CURB TAPER(S).

[DF] DROP FOOTING:

DROP THE BUILDING OR IMPROVEMENT FOOTING BEARING SURFACE AS REQUIRED FOR PROPOSED GRADES ALONG BUILDING OR IMPROVEMENT PERIMETER TO ACCEPT FINISH PER ARCHITECTURAL PLANS WITHOUT EXPOSING FOOTING. [TC] TRAFFIC CONTROL: FOOTING BEARING SURFACE MINIMUM 12" BELOW FINISH SURFACE. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS AND SPECIFICATIONS. COORDINATE PTC.

[FJ] FLUSH JOINT:

CONTRACTOR SHALL: PROVIDE FLUSH JOINT ALONG LENGTH OF PAVEMENT OR CURB EDGES. CROSS SLOPE SHALL BE LEVEL ACROSS GUTTER WIDTH. FLUSH JOINT SHALL BE INSTALLED TO PROVIDE SMOOTH, LEVEL CROSS SLOPE, AND EVEN TRANSITION FROM ONE SURFACE TO ANOTHER ALONG ENTIRE LENGTH. BUMPS, DIPS, RAISED OR LOWERED EDGES. OR OTHER ELEVATION DIFFERENCES WILL NOT BE ALLOWED.

[IG] IRRIGATION:

PER SPECIFICATIONS. CONTRACTOR SHALL PROVIDE CERTIFIED SPRINKLER SYSTEM DESIGN BY PROFESSIONAL IRRIGATION SPRINKLERS, VALVES, CONNECTIONS, FITTINGS, UNAUTHORIZED ENTRY OR REMOVAL. PROVIDE WEIGHTED BOTTOM RAIL OR OTHER MEANS TO PREVENT AND ASSOCIATED HARDWARE SHALL BE HEAVY DUTY BRONZE BODY STAINLESS STEEL CONSTRUCTION.

[LYT] LAYOUT SUBMITTAL:

CONTRACTOR SHALL: SUBMIT FOUNDATION.PROPOSED BUILDING LAYOUT, AND FRONT ENTRANCE SIDEWALK TO ARCHITECT AND ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. PROVIDE AS BUILT DIMENSIONS OF ALL EXISTING BUILDINGS, IMPROVEMENTS, COLUMNS, CANOPIES, OR STRUCTURES AT THE INTERFACE BETWEEN [UD] UNDISTURBED BUFFER: EXISTING AND PROPOSED CONSTRUCTION, AND ANY ADDITIONAL MEASUREMENTS REQUIRED TO ACCURATELY DESCRIBE THE EXISTING AND PROPOSED CONSTRUCTION. PROVIDE ALL DIMENSIONS, GEOMETRY, ANGLES, AND CLOSURES FOR PROPOSED CONSTRUCTION AND EXISTING CONSTRUCTION, AND THE INTERFACE BETWEEN EACH. BUILDING LAYOUT SHALL BE BASED ON ARCHITECTURAL PLANS, DO NOT USE CIVIL OR OTHER RELATED ENGINEERING PLANS, DRAWINGS, OR CAD FILES, OR SURVEYOR'S DRAWINGS OR CAD FILES. SUBMITTAL SHALL INCLUDE SUFFICIENT INFORMATION TO DEMONSTRATE FULL COMPLIANCE WITH DESIGN INTENT AND LAYOUT AS SHOWN ON THE PLANS.

CONSTRUCTION LEGEND:

[ME] MATCH EXISTING:

MATCH EXISTING FINISH GRADE. VERIFY IN FIELD PRIOR TO CONSTRUCTION (PTC). VERIFY POSITIVE SLOPE TO PROVIDE FLOW AS INDICATED.

IRA1 CURB RAMP:

PROVIDE CURB RAMP CONFORMING TO CURRENT GEORGIA ADA CODE. VERIFY ALL REQUIREMENTS, DIMENSIONS, SLOPES, AND CONSTRUCTION PTC. PROVIDE MINIMUM 6' CURB TAPER ICT1 AT EACH SIDE OF ADJOINING CURBS. TAPER ADJOINING SIDEWALKS TO MATCH CURB.

[RD] ROOF DRAIN:

CONNECT ALL ROOF DOWNSPOUTS AS SHOWN ON ARCHITECTURAL PLANS TO STORM SEWER WITH [RD] PIPING. NUMBER AND LOCATION OF DOWNSPOUTS SHALL CONFORM TO TO ARCHITECTURAL PLANS, VERIFY PTC. CONNECTIONS TO INDIVIDUAL DOWNSPOUTS OR PLUMBING DRAINS SHOWN ON CIVIL SITE DEVELOPMENT PLANS ARE FOR REFERENCE ONLY TO INDICATE TYPICAL CONDITIONS. CONNECT ALL HUB DRAINS FROM WALL HUNG HVAC UNITS AND ALL PLUMBING ROOF DRAINS WITH [RD] PIPING TO STORM SEWER - REFER TO MECHANICAL AND PLUMBING ENGINEERING PLANS AND SPECIFICATIONS. [RD] COLLECTOR PIPE SIZE AND MATERIAL SHOWN ON PLANS. [RD] CONNECTIONS TO INDIVIDUAL DOWNSPOUTS SHALL BE 6" DIAMETER, 2" DIAMETER FOR HVAC UNITS. PIPE BEDDING FOR [RD] IS CLASS B. MINIMUM COVER OVER TOP OF PIPE: 1.0 FEET UNPAVED AREAS, 3.0 FEET PAVED AREAS. MINIMUM PIPE SLOPE: 1/8"/FT (1.0%). USE DUCTILE IRON PIPE IN PAVED AREAS, SCHED. 40 PVC IN NON-PAVED AREAS. PROVIDE CLEANOUTS AT ALL LINE DEFLECTIONS. CLEANOUTS IN NON-PAVED AREAS SHALL BE PVC 6 INCHES ABOVE GRADE. CLEANOUTS IN PAVED AREAS SHALL BE H-20 RATED HEAVY DUTY TO MATCH FINISHED PAVEMENT ELEVATION. LONG SWEEP RADIUS REQUIRED FOR ALL ELBOWS AND PIPE LINE DEFLECTIONS. PIPE CONNECTION TO DOWNSPOUTS SHALL BE PER ARCHITECTURAL AND PLUMBING DETAILS.

[SDV] VERIFY SIGHT DISTANCE:

CONTRACTOR SHALL VERIFY SITE DISTANCE FROM MAIN DRIVE LOOKING RIGHT AS SHOWN ON SHEET C5.3 PRIOR TO CONSTRUCTION. AT SPOT ELEVATION 1089.10 SHOWN ON SHEET C3, PROVIDE REGISTERED SURVEYOR TO SET INSTRUMENT LEVEL AT 1092.10 (1089.10 + 3.50' -DRIVER'S EYE HEIGHT). AT END OF SIGHT DISTANCE LINE AS SHOWN ON SHEET C5.3 IN THE CENTER OF THE NORTHBOUND LANE AT 285' FROM MAIN DRIVE POINT SET AN OBJECT 3.50' IN HEIGHT FROM THE EXISTING PAVEMENT ELEVATION AND VERIFY THE SIGHT LINE BETWEEN THE TWO POINTS. REPORT FINDINGS TO ENGINEER AND ARCHITECT IMMEDIATELY.

[SW] SIDEWALK, RAMP OR STEPS:

CONCRETE SIDEWALK WITH FINISH PER ARCHITECT. SIDEWALK WIDTHS AND DIMENSIONS AT DOORS OR ENTRANCE/EXITS SHALL BE PER ARCHITECTURAL PLANS, MINIMUM WIDTH IS DOOR WIDTH PLUS 1.0 FEET EACH SIDE. PROVIDE POSITIVE SLOPE AWAY FROM DOOR THRESHOLDS OF 1/8 INCH PER FOOT (1.0%) MINIMUM. SIDEWALK SLOPES GREATER THAN 1:20 (0.05 FT./FT.) WILL BE CONSIDERED RAMPS. MAXIMUM SLOPE FOR SIDEWALKS IS 1:12 (0.083 FT./FT.). MAXIMUM SIDEWALK CROSS SLOPE IS 1/4 INCH PER FOOT. SIDEWALKS SHALL BE INSTALLED WITH MINIMUM 6X6 10 GAUGE WWF REINFORCEMENT, 1.5 INCHES FROM BOTTOM. HANDRAILING SHALL BE INSTALLED ON BOTH SIDES OF SIDEWALK RAMPS PER ADA CODE. CONTRACTOR SHALL INSTALL STEPS AND RAILING PER LOCAL CODE(S) AND CONSTRUCTION DETAILS. CONSULT WITH ARCHITECT REGARDING SIDEWALK AND RAILING DETAILS PRIOR TO CONSTRUCTION. MINIMUM RAILING DETAIL REQUIREMENT(S) SHALL COMPLY WITH GEORGIA D.O.T. 9031R OR AS SHOWN ON PLANS AND SPECIFICATIONS. CANOPIES SHALL BE INSTALLED PER ARCHITECTURAL PLANS AND SPECIFICATIONS. COORDINATE AND VERIFY ALL SIDEWALK LAYOUT, WIDTH, LOCATION AND FINISH WITH ARCHITECT PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL: PROVIDE 24 HOUR TRAFFIC CONTROL FOR ALL PUBLIC RIGHT-OF-WAY, ROADWAYS, PRIVATE DRIVES, [CA] CONTROLLED ACCESS AREAS, AND ALL AREAS REQUIRING ACCESS. PROVIDE TRAFFIC PLATES OR OTHER APPROVED METHODS FOR ALL AREAS REQUIRING TEMPORARY ACCESS WHICH MAY BE OBSTRUCTED DUE TO REQUIRED UTILITY TRENCH CUTS OR OTHER OBSTRUCTIONS. TRAFFIC CONTROL SHALL CONFORM TO GEORGIA D.O.T STANDARDS AND SPECIFICATIONS, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND DESIGNATED LENGTH. ELEVATIONS SHALL MATCH EQUALLY LOCAL AUTHORITY STANDARDS AND SPECIFICATIONS. TRAFFIC CONTROL SHALL INCLUDE, BUT ALONG ENTIRE LENGTH FROM ONE SURFACE TO ADJACENT NOT BE LIMITED TO: WARNING SIGNS AND DEVICES, LIGHTED DEVICES/SIGNALS FOR NIGHT SURFACES. PROVIDE EXPANSION JOINT ALONG ENTIRE CONDITIONS, BARRICADES, QUALIFIED FLAGMEN, AND ALL OTHER MEASURES TO INSURE THE SAFETY OF PEDESTRIAN AND VEHICULAR TRAFFIC AND WORKMEN, AND TO PROTECT THE WORK. MAINTAIN ALL TRAFFIC CONTROL MEASURES IN GOOD REPAIR, CLEAN AND VISIBLE FOR DAY AND NIGHT OPERATION. ALL LANE CLOSURES SHALL BE COORDINATED WITH AND APPROVED BY THE LOCAL AUTHORITY PRIOR TO CONSTRUCTION.

[TF] TEMPORARY FENCE:

INSTALL TEMPORARY FENCE PER PROJECT SPECIFICATIONS. TEMPORARY FENCE [TF] SHOWN ON PLANS IS IN ADDITION TO TEMPORARY FENCE REQUIRED BY THE SPECIFICATIONS. MINIMUM HEIGHT IS SIX FEET (6'). TEMPORARY FENCE MUST BE INSTALLED VERTICAL (PLUMB), RIGID AND PROVIDE IRRIGATION FOR FOOTBALL AND SOFTBALL FIELDS STABLE, AND WITHOUT GAPS TO PROHIBIT UNAUTHORIZED ENTRY OR REMOVAL. IN PAVED AREAS TO REMAIN [TR] WHERE [TF] IS REQUIRED PORTABLE FENCING MAY BE USED. PORTABLE FENCING MUST BE HEAVY DUTY GRADE COMPLYING WITH PROJECT SPECIFICATIONS AT A MINIMUM, SECTIONS SHALL BE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. ALL CONNECTED AND ATTACHED SECURELY, VERTICAL (PLUMB), STABLE AND RIGID TO PROHIBIT

HORIZONTAL DISPLACEMENT OR MOVEMENT.

WHERE DRIVEN POSTS ARE USED IN AREAS TO REMAIN [TR], PAVEMENTS MUST BE CUT AND PATCHED FOR FULL DEPTH AND ALL IMPROVEMENTS MUST BE RESTORED TO MATCH INDUSTRY STANDARD OR EXISTING CONDITION, WHICHEVER IS GREATER. TEMPORARY FENCE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION UNTIL FINAL RELEASE BY OWNER/ARCHITECT.

INSPECT, REPAIR AND MAINTAIN TEMPORARY AND PORTABLE FENCING DAILY TO PROHIBIT UNAUTHORIZED ENTRY. SUBMIT ALL MANUFACTURER DETAILS AND SPECIFICATIONS FOR [TF] TEMPORARY FENCE AND PORTABLE FENCE APPROVAL PRIOR TO CONSTRUCTION (PTC).

INSTALL AND MAINTAIN TREE FENCE AROUND ENTIRE PERIMETER OF UNDISTURBED AREA. NO ACCESS ALLOWED IN UNDISTURBED AREAS INCLUDING BUT NOT LIMITED TO: PEDESTRIAN, VEHICULAR, STORAGE, PARKING, OR ANY OTHER ENCROACHMENT OR DISTURBANCE. PROVIDE SIGNAGE AND INSTRUCTION TO ALL PERSONNEL AS REQUIRED.

[VC] VERIFY & COORDINATE:

VERIFY ALL EXISTING IMPROVEMENTS. PROTECT BY ALL MEANS NECESSARY ALL EXISTING IMPROVEMENTS TO REMAIN. COORDINATE RELOCATION, REMOVAL, STORAGE, OR DEMOLITION WITH OWNER OR OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.

GRADING NOTES

1. SEE GENERAL CONSTRUCTION NOTES FOR FURTHER INFORMATION RELATING TO SITE DEVELOPMENT AND GRADING IMPROVEMENTS. 2. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE LOCAL AUTHORITIES HAVING JURISDICTION (LAHJ). ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBANCE. SEE EROSION CONTROL PLAN FOR DETAILS 3. THIS SITE IS WITHIN A 100 YEAR FLOOD HAZARD PER FEMA F.I.R.M. MAP 13057C2263E DATED 06-07-2019.

ITEM(S) OR REQUIREMENTS ARE SHOWN IN MORE THAN ONE PLACE IN THE CONSTRUCTION 4. ALL UTILITIES SHOWN ON THE PLANS ARE SHOWN ACCORDING TO THE INFORMATION AVAILABLE, AND MAY NOT BE ACCURATE HORIZONTALLY OR DOCUMENTS, PLANS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY AS DETERMINED BY THE ENGINEER. VERTICALLY. GAS LINES SHALL BE LOCATED AND VERIFIED WITH GAS AUTHORITY PRIOR TO CONSTRUCTION. UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE 3. THE CONTRACTOR IS RESPONSIBLE FOR ALL FEDERAL, STATE, OSHA, AND LOCAL SAFETY PLANS. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION, ORIGIN, REGULATIONS, LAWS, CODES OR ORDINANCES WHICH MAY APPLY. 4. THE CONTRACTOR SHALL REVIEW THE PLANS AND SPECIFICATIONS FOR ERRORS. VERIFICATION, PROTECTION, AND MAINTENANCE OF ALL UTILITIES AND UTILITY EASEMENTS WHICH EXIST ONSITE. CONTRACTOR SHALL HAVE ALL UTILITIES FIELD OMISSIONS, DISCREPANCIES, OR CONFLICTS PRIOR TO CONSTRUCTION. THE CONTRACTOR LOCATED BY THE APPROPRIATE AUTHORITY AND COORDINATE ALL EXISTING OR SHALL NOTIFY THE ENGINEER OF ANY ERRORS OR OMISSIONS IN THE PLANS, OR BETWEEN PROPOSED UTILITY CONSTRUCTION, RELOCATION, TAPS OR OTHER ASSOCIATED THE PLANS AND ACTUAL FIELD CONDITIONS, IMMEDIATELY. ANY WORK DONE AFTER SUCH DISCOVERY, WITHOUT APPROVAL, IS AT THE CONTRACTOR'S RISK WORK WITH THE APPROPRIATE UTILITY AUTHORITY. RESOLVE ALL CONFLICTS OR PROBLEMS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE ALL 5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO AND FROM THE SITE AT ALL TIMES. UNDERGROUND UTILITIES FOR PROPOSED CONSTRUCTION WITH OWNER AND UTILITY SERVICES SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL UTILITY AUTHORITY, INCLUDING BUT NOT LIMITED TO: GAS LINES, POWER LINES, COORDINATE ANY TEMPORARY INTERRUPTION OF ACCESS OR UTILITIES WITH THE OWNER CABLE TV OR TELEPHONE, IT LINES, IRRIGATION LINES, AND OTHER ASSOCIATED PRIOR TO THE INTERRUPTION. UTILITIES WHETHER SHOWN ON THE PLANS OR NOT. RESOLVE ALL CONFLICTS OR 6. ALL MATERIALS TO BE REMOVED SHALL BE DISPOSED OF OFFSITE IN A LEGAL MANNER.

PROBLEMS PRIOR TO CONSTRUCTION. 7. ALL UTILITIES SHOWN ON THE PLAN ARE SHOWN ACCORDING TO INFORMATION 5. ALL CUT AND FILL GRADING OPERATIONS SHALL BE IN ACCORDANCE WITH THE AVAILABLE, AND MAY NOT BE ACCURATE HORIZONTALLY OR VERTICALLY. UTILITIES MAY RECOMMENDATIONS AND REQUIREMENTS OF THE GEOTECHNICAL/SOILS EXIST WHICH ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR THE ENGINEER. SUBSURFACE SOIL CONDITIONS WHICH MAY BE ENCOUNTERED, SUCH LOCATION, ORIGIN, VERIFICATION, PROTECTION AND MAINTENANCE OF ALL UTILITIES WHICH AS UNDERGROUND SPRINGS, HIGH WATER TABLE, ROCK OR UNSUITABLE SOILS, EXIST ONSITE OR MAY BE IMPACTED BY THE WORK. CONTRACTOR SHALL HAVE ALL SHALL BE RESOLVED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SOILS UTILITIES LOCATED AND MARKED BY THE APPROPRIATE AUTHORITIES AND COORDINATE ENGINEER. IN THE ABSENCE OF A QUALIFIED SOILS ENGINEER, THE CONTRACTOR ALL UTILITY CONSTRUCTION, TAPS, OR OTHER ASSOCIATED WORK WITH THE APPROPRIATE IS RESPONSIBLE FOR ALL SOILS AND CONSTRUCTION SELECTED FOR ANY USE IN UTILITY AUTHORITY. RESOLVE ANY CONFLICTS OR ERRORS PRIOR TO CONSTRUCTION. COMPLETING THE WORK. CONTRACTOR SHALL CLEARLY MARK AND MAINTAIN PROPERTY CORNERS, BOUNDARY,

6. PWH ENGINEERING, INC., IS NOT RESPONSIBLE FOR SUITABILITY, STRUCTURAL INTEGRITY, COMPACTION, CUT OR FILL QUANTITY OF ANY SOILS SELECTED OR REQUIRED FOR USE IN THE COMPLETION OF THE WORK. 7. MINIMUM COMPACTION FOR ALL FILL IS 95% MAXIMUM DRY DENSITY PER ASTM

D698, OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER, OR AS SPECIFIED IN THE GEOTECHNICAL SOILS SUBSURFACE EVALUATION ANALYSIS AND REPORT. WHICHEVER IS GREATER. 8. MAXIMUM CUT OR FILL SLOPE IS 2H:1V UNLESS SPECIFIED OTHERWISE.

9. MINIMUM FLOOR ELEVATIONS SHOWN ARE BASED UPON EXISTING CONDITIONS, PROPER FUNCTIONING OF CHANNELS, DRAINAGE COURSES, AND STORM DRAIN SYSTEMS. ANY RESTRICTIONS OR ALTERATIONS TO THESE ELEMENTS MAY CAUSE FLOODING ABOVE THE STATED MINIMUM FLOOR ELEVATIONS. 10. CONTRACTOR SHALL PROVIDE POSITIVE SLOPE AWAY FROM ALL BUILDINGS, FINISHED FLOORS, AND STRUCTURES WHICH MAY BE DAMAGED BY WATER INTRUSION FOR A MINIMUM OF 5.0 FEET HORIZONTALLY.

11. THE CONTRACTOR IS RESPONSIBLE FOR ALL LOCAL, STATE, FEDERAL, AND INDUSTRY STANDARD SAFETY DEVICES, PROCEDURES, PRECAUTIONS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK. NO PERSON SHALL ENTER ANY MANHOLE OR OTHER UNDERGROUND STRUCTURE OR EXCAVATION, WITHOUT PROTECTIVE BREATHING APPARATUS, AND AT LEAST ONE OTHER PERSON PRESENT FOR SAFETY. ALL TRENCHES, GRADING, EXCAVATION, AND EARTHWORK SHALL CONFORM TO OSHA STANDARDS FOR SAFETY, SHORING, AND BRACING. 12. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ADJACENT PROPERTY OR EXISTING UTILITIES OR IMPROVEMENTS DUE TO CONSTRUCTION REQUIRED TO COMPLETE THE WORK. ALL DAMAGED PROPERTY SHALL BE RESTORED TO ORIGINAL CONDITION BY CONTRACTOR. 13. LINE OF SIGHT DISTANCE AT INTERSECTIONS SHALL BE MAINTAINED

PERMANENTLY FREE AND CLEAR OF ALL OBSTRUCTION. 14. FINISHED GRADES LESS THAN 1.0% (1 FT. PER 100 FT.) MAY BE REQUIRED DUE TO SITE CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS NECESSARY TO PROVIDE GRADES WITHOUT PONDING OR DEPRESSED AREAS

15. FLOW ARROWS AND SPOT ELEVATIONS SHOWN DETERMINE DESIGN INTENT. WHERE CONFLICTS OCCUR BETWEEN FLOW ARROWS AND SPOT ELEVATIONS NOTIFY ENGINEER IMMEDIATELY AND RESOLVE PRIOR TO CONSTRUCTION. 16. CONTRACTOR SHALL ESTABLISH PERMANENT GRASSING ON ALL DISTURBED AREAS PRIOR TO FINAL RELEASE, WHETHER SHOWN ON THE PLANS OR NOT. 17. OWNER IS RESPONSIBLE FOR COMPLIANCE WITH CLEAN WATER ACT, USACE WETLANDS AND SECTION 404 PERMITTING.

18. THE CONTRACTOR SHALL PROVIDE STORM WATER DISCHARGE MONITORING, 17. CONTRACTOR SHALL ESTABLISH PERMANENT GRASSING ON ALL DISTURBED AREAS DOCUMENTATION, AND REPORTING, AND FULLY COMPLY WITH THE CURRENT PRIOR TO FINAL RELEASE, WHETHER SHOWN ON THE PLANS OR NOT. GEORGIA NPDES PERMIT CONDITIONS AND REQUIREMENTS. CONTRACTOR SHALL 18. THE CONTRACTOR SHALL PROVIDE STORM WATER DISCHARGE MONITORING, DOCUMENTATION, AND REPORTING, AND FULLY COMPLY WITH THE CURRENT GEORGIA PROVIDE COPIES OF ALL REPORTING AND DOCUMENTATION TO OWNER IMMEDIATELY AND THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL SIGN, NPDES PERMIT CONDITIONS AND REQUIREMENTS. CONTRACTOR SHALL SIGN, CERTIFY, CERTIFY, AND SUBMIT THE NOTICE OF INTENT (NOI) USING REGISTERED MAIL, AND AND SUBMIT THE NOTICE OF INTENT (NOI) USING REGISTERED MAIL, AND ANY OTHER ANY OTHER RELATED NOTICE(S), APPLICATIONS, OR CERTIFICATIONS REQUIRED RELATED NOTICE(S), APPLICATIONS, OR CERTIFICATIONS REQUIRED FOR FULL FOR FULL COMPLIANCE WITH CURRENT APPLICABLE LAWS AND REGULATIONS. COMPLIANCE WITH CURRENT APPLICABLE LAWS AND REGULATIONS. CONTRACTOR SHALL CONTRACTOR SHALL PROVIDE COPIES OF ALL REPORTING AND DOCUMENTATION PROVIDE COPIES OF ALL REPORTING AND DOCUMENTATION TO OWNER IN A TIMELY TO OWNER IN A TIMELY MANNER THROUGHOUT CONSTRUCTION. MANNER THROUGHOUT CONSTRUCTION. 19. ALL SOILS USED FOR FILL IN EARTHEN DAMS OR WATER IMPOUNDMENT AREAS 19. NO PARKING FOR CONTRACTORS OR SUBCONTRACTORS WILL BE ALLOWED ON PUBLIC SHALL BE ML OR CL LOW PLASTICITY CLAYS PER THE UNIFIED SOIL STREETS OR RIGHT OF WAY. CLASSIFICATION, APPROVED BY THE GEOTECHNICAL ENGINEER. ALL ORGANICS, 20. ALL CUTS IN PAVEMENT AND PAVEMENT EDGES ADJOINING NEW PAVEMENT SHALL BE TOPSOIL, OR OTHER UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SAW CUT. ALL RIGID PAVEMENT TO RIGID PAVEMENT SHALL BE DOWELED ENTIRE FILL AREA. ALL FILL SHALL BE PLACED IN MAXIMUM 6 INCH LIFTS, MINIMUM WITH NO. 4 BARS SPACED 12-INCHES ON CENTER AND GROUTED. COMPACTION IS 95% OF STANDARD MAXIMUM DENSITY. NO GRAVEL, AGGREGATE 22. CONTRACTOR SHALL COORDINATE WITH AUTHORIZED REPRESENTATIVE FOR OWNER OR GRAVEL PIPE BEDDING, OR ANY PERVIOUS MATERIAL SHALL BE PLACED IN THE AND CONFIRM AND OBTAIN APPROVAL PTC FOR ALL DAILY CONSTRUCTION ACTIVITIES DAM OR FILL AREA(S). SCARIFY EXISTING SUBGRADE PRIOR TO PLACING FILL. SCHEDULED AND ANY IMPACT ON REQUIRED ACTIVITIES, EVENTS, OR ACCESS WHICH MAY 20. ALL STORM SEWER STRUCTURES, PIPING, AND APPURTENANCES SHALL BE BE AFFECTED IN ANY WAY. DO NOT ALLOW PEDESTRIANS, PUBLIC, OR OTHER COMPLETELY CLEANED AND FREE OF ALL TRASH, DEBRIS, SEDIMENT, SILT, OR UNAUTHORIZED PERSON(S) TO ENTER WORK AREAS. WORK AND STORAGE AREA(S) SHALL OTHER UNSUITABLE MATERIALS PRIOR TO FINAL RELEASE. BE FENCED [TF] AND SECURE [CA] AT ALL TIMES FOR ALL PHASES OF CONSTRUCTION.

21. CONTRACTOR SHALL PROVIDE ONSITE UTILITY LOCATIONS FOR ALL UTILITIES FOUL OR OFFENSIVE LANGUAGE, IMPROPER OR REVEALING CLOTHING OR ATTIRE, BY PRIVATE UTILITY LOCATING COMPANY. PROVIDE OWNER/ENGINEER COMPLETE ALCOHOL, FIREARMS, DRUGS, OR OTHER INAPPROPRIATE BEHAVIOR AS DETERMINED BY RESULTS OF ALL UTILITY LOCATION(S) PRIOR TO CONSTRUCTION. THIS OWNER IS STRICTLY PROHIBITED. ANY INTERACTION OR CONTACT WITH PUBLIC, STAFF OR REQUIREMENT IS IN ADDITION TO THE STANDARD UPC LOCATION OF UTILITIES. VISITORS IS STRICTLY PROHIBITED AT ALL TIMES. ALL COORDINATION AND COMMUNICATION SHALL BE THROUGH THE DESIGNATED OWNER AUTHORIZED REPRESENTATIVE. CONTRACTOR SHALL REVIEW AND COMPLY WITH ALL OWNER'S **REQUIREMENTS, STANDARDS, POLICIES, RULES AND SPECIFICATIONS.**

22. EXISTING STORM SEWER CAPACITY AND SERVICE LEVEL WILL NOT BE INCREASED OR ENHANCED BY PROPOSED DESIGN 23. CONSTRUCTION SEQUENCE AND PHASING ARE SOLE RESPONSIBILITY OF THE CONTRACTOR. WET SOILS WILL NOT BE CONSIDERED UNSUITABLE AND WET SOIL NO PARKING IN THE RIGHT OF WAY IS ALLOWED. ALL CONSTRUCTION TRAFFIC MUST BE REMEDIATION WILL NOT BE ANY ADDITIONAL COST TO OWNER. COORDINATED WITH [TC] AT ALL TIMES WITH NO INTERRUPTION OF ACCESS FOR SCHOOL OR SCHOOL OPERATIONS.

GENERAL CONSTRUCTION NOTES

1. LAHJ = LOCAL AUTHORITIES HAVING JURISDICTION. 2. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM, AT A MINIMUM, TO THE CURRENT

STANDARDS AND SPECIFICATIONS OF THE LAHJ. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL CURRENT APPLICABLE STANDARDS, SPECIFICATIONS, AND DETAILS OF THE LAHJ. ALL DISCREPANCIES BETWEEN THESE STANDARDS AND THE CONSTRUCTION PLANS AND SPECIFICATIONS SHALL BE REPORTED IMMEDIATELY FOR RESOLUTION PRIOR TO CONSTRUCTION.

WHEN ANY CONSTRUCTION, MATERIALS, OR SPECIFICATIONS FOR THE SAME OR SIMILAR

MONUMENT, AND BENCHMARKS THROUGHOUT CONSTRUCTION. 8. CONTRACTOR SHALL REVIEW ALL SITE IMPROVEMENTS, WALKS, PARKING, PAVEMENT,

BUILDINGS, STRUCTURES, OR OTHER IMPROVEMENTS SHOWN ON THESE PLANS FOR CONFORMITY WITH THE CURRENT APPROVED ARCHITECTURAL AND RELATED ENGINEERING PLANS. RESOLVE ALL CONFLICTS OR DISCREPANCIES PRIOR TO CONSTRUCTION. 9. CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES, SIGNS, LIGHTS, OR OTHER DEVICES FOR THE SAFETY AND PROTECTION OF ALL PERSONS ON THE SITE. FOR TRAFFIC SAFETY, IN THE ABSENCE OF SPECIFIC TRAFFIC REQUIREMENTS OF THE LAHJ, THE MANUAL FOR UNIFORM TRAFFIC SAFETY CONTROL DEVICES SHALL BE USED.

10. PROPOSED BUILDING AND STRUCTURE LOCATIONS ARE SHOWN BASED ON ARCHITECTURAL PLANS PROVIDED. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL BUILDING DIMENSIONS, EXISTING AND PROPOSED, JUNCTIONS, COMMON POINTS, AND

LAYOUT GEOMETRY AS REQUIRED FOR COMPLETION OF THE WORK. 11. MINIMUM PIPE BEDDING FOR ALL PIPING SHALL CONFORM TO GEORGIA D.O.T. STANDARDS AND SPECIFICATIONS, UNLESS SPECIFIED OTHERWISE. UNSUITABLE, WET, SPONGY, OR SOFT SOILS WILL REQUIRE ADDITIONAL BEDDING DESIGN AND CONSTRUCTION, AND SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER FOR RESOLUTION PRIOR TO

PROCEEDING WITH THE AFFECTED WORK. 12. BOUNDARY, TOPOGRAPHIC, VERTICAL AND HORIZONTAL SURVEY DATA PROVIDED BY OTHERS. PWH ENGINEERING, INC. IS NOT RESPONSIBLE FOR ERRORS, OMISSIONS, OR OTHER DEFECTS ARISING FROM OR RELATED TO ANY INFORMATION OR DATA PROVIDED BY OTHERS.

13. CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION AND COORDINATION WITH THE LAHJ FOR START OF CONSTRUCTION AND INSPECTION PROCEDURES

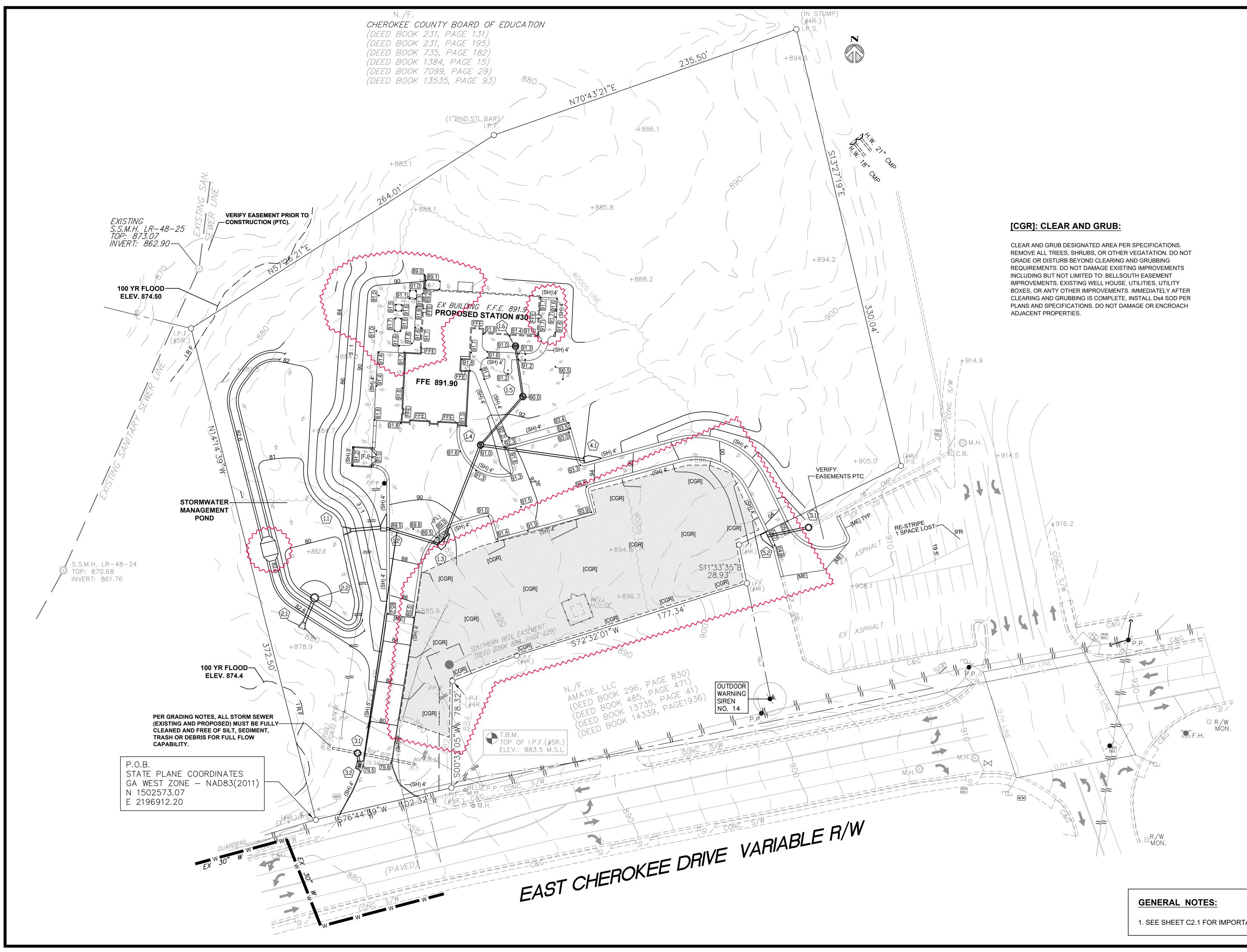
14. ALL CONSTRUCTION DETAILS SHOWN ON THE PLANS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL REVIEW AND VERIFY ALL CONSTRUCTION DETAILS FOR COMPLIANCE WITH CURRENT REFERENCED STANDARDS AND THE LAHJ.

15. THE CONTRACTOR IS RESPONSIBLE FOR ALL LOCAL, STATE, FEDERAL, AND INDUSTRY STANDARD SAFETY DEVICES, PROCEDURES, PRECAUTIONS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK. NO PERSON SHALL ENTER ANY MANHOLE OR OTHER UNDERGROUND STRUCTURE OR EXCAVATION, WITHOUT PROTECTIVE BREATHING APPARATUS, AND AT LEAST ONE OTHER PERSON PRESENT FOR SAFETY. ALL TRENCHES, GRADING, EXCAVATION, AND EARTHWORK SHALL CONFORM TO OSHA STANDARDS FOR SAFETY, SHORING, AND BRACING.

16. MINIMUM FINISHED FLOOR ELEVATIONS WHICH MAY BE SHOWN ARE BASED UPON EXISTING CONDITIONS AND PROPER FUNCTION OF CHANNELS, DRAINAGE COURSES, AND STORM DRAIN SYSTEMS. ANY RESTRICTION, DAMAGE, OR ALTERATION TO THESE ELEMENTS, EXISTING OR PROPOSED, MAY CAUSE FLOODING ABOVE THE STATED MINIMUM FLOOR ELEVATIONS.

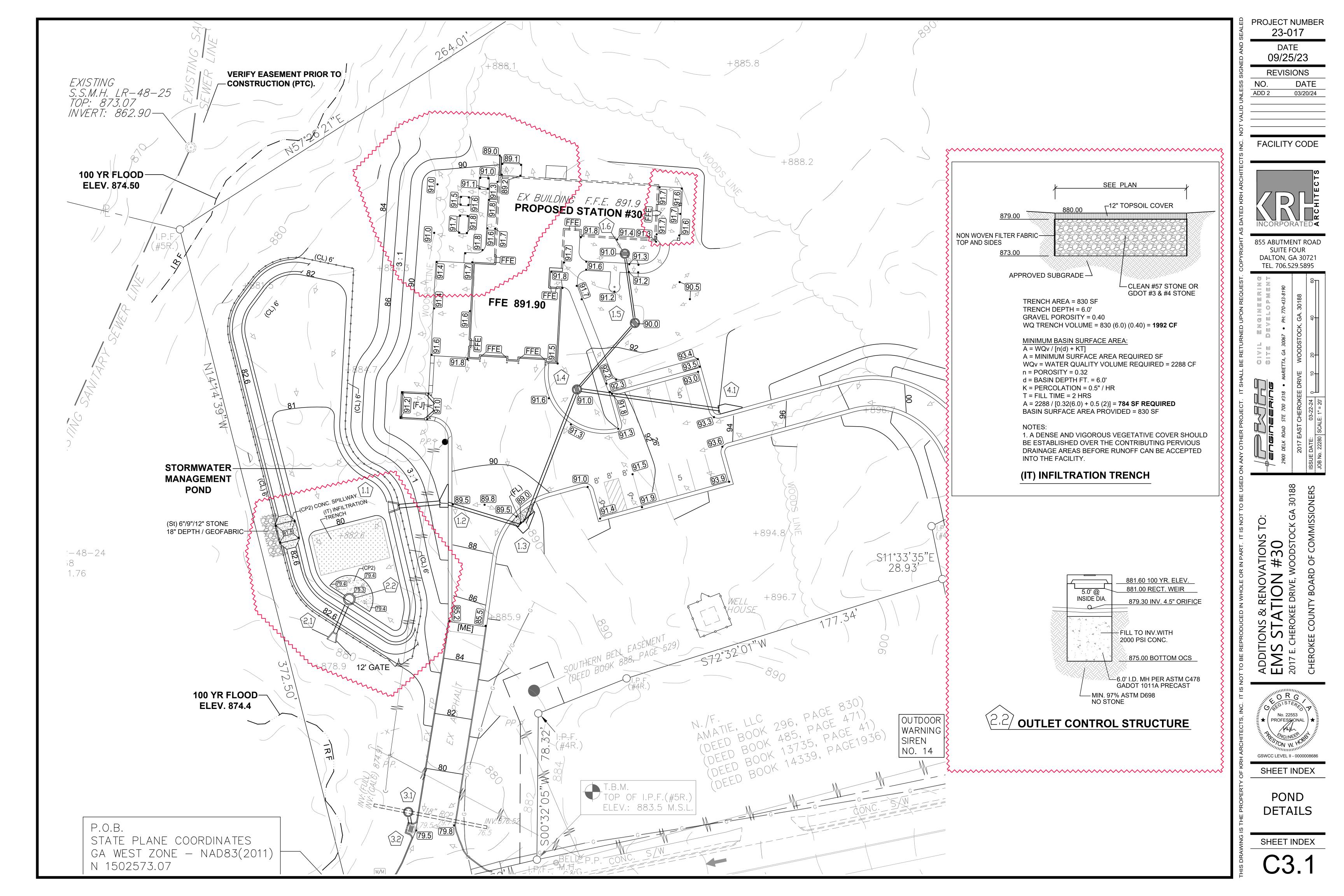
23. DESIGN IS BASED ON SURVEY INFORMATION PROVIDED BY OTHERS. ENGINEER IS NOT **RESPONSIBLE FOR ERRORS OR OMISSIONS IN ANY INFORMATION PROVIDED BY OTHERS.**

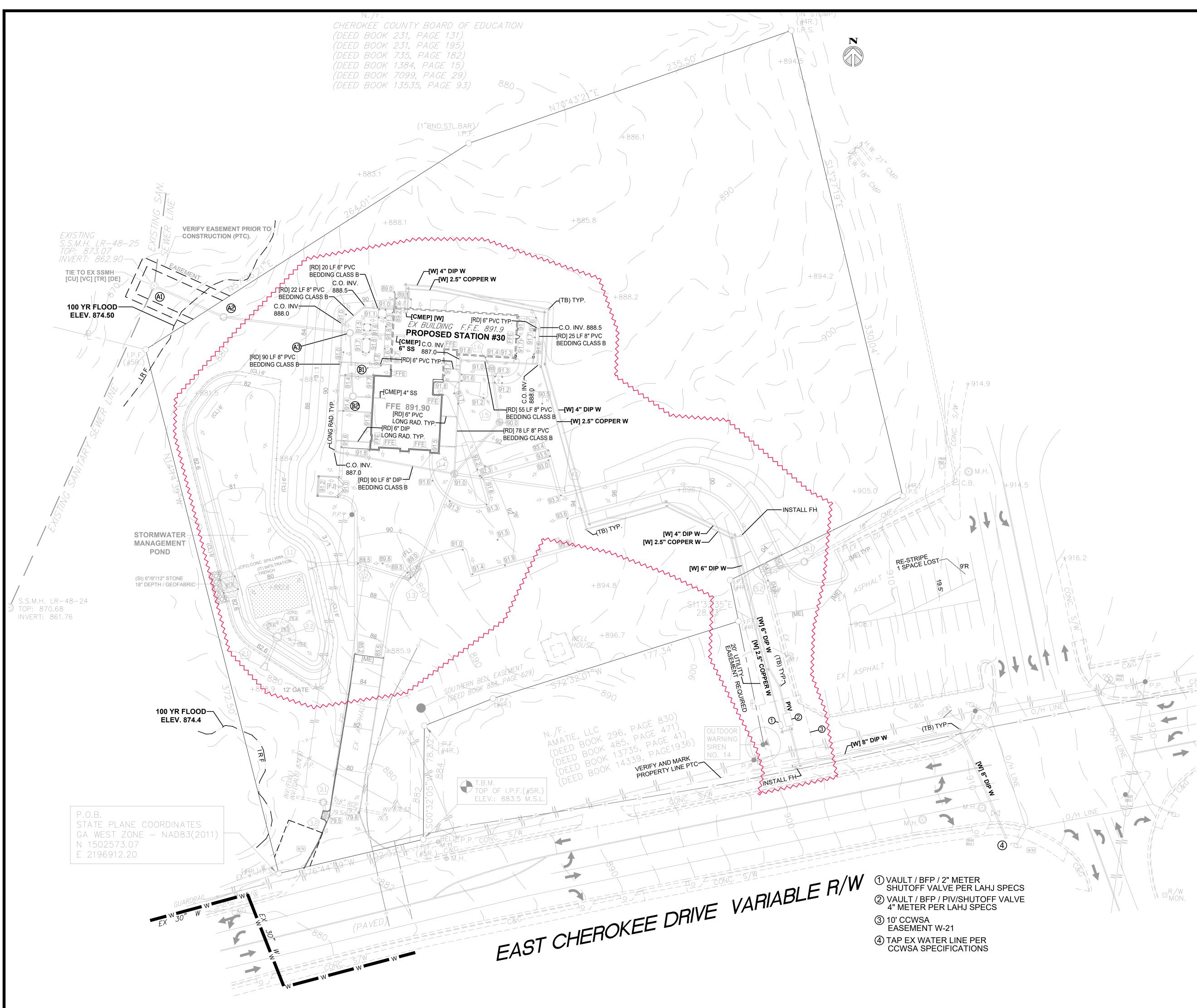
INC. IT IS NOT TO BE REPRODUCED IN WHOLE OR IN PART. IT IS NOT TO BE USED ON ANY OTHER PROJECT. IT SHALL BE RETURNED UPON REQUEST. COPYRIGHT AS DATED KRH ARCHITECTS INC. NOT VALID UNLESS SIGNED AND SEALED	PROJECT NUMBER 23-017
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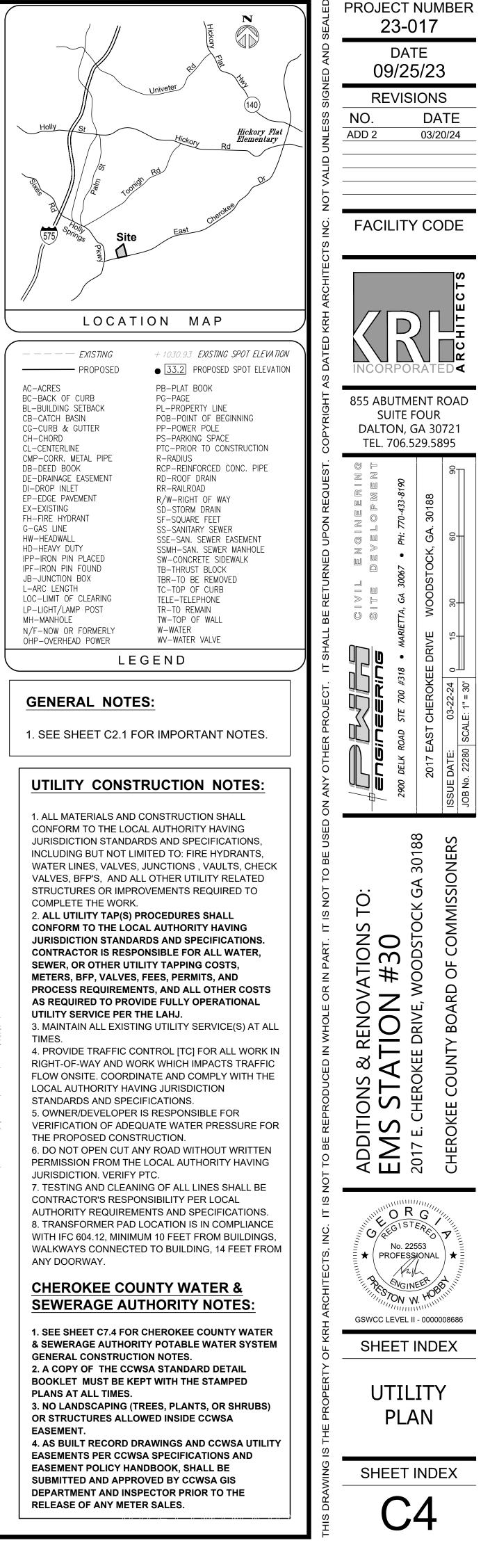


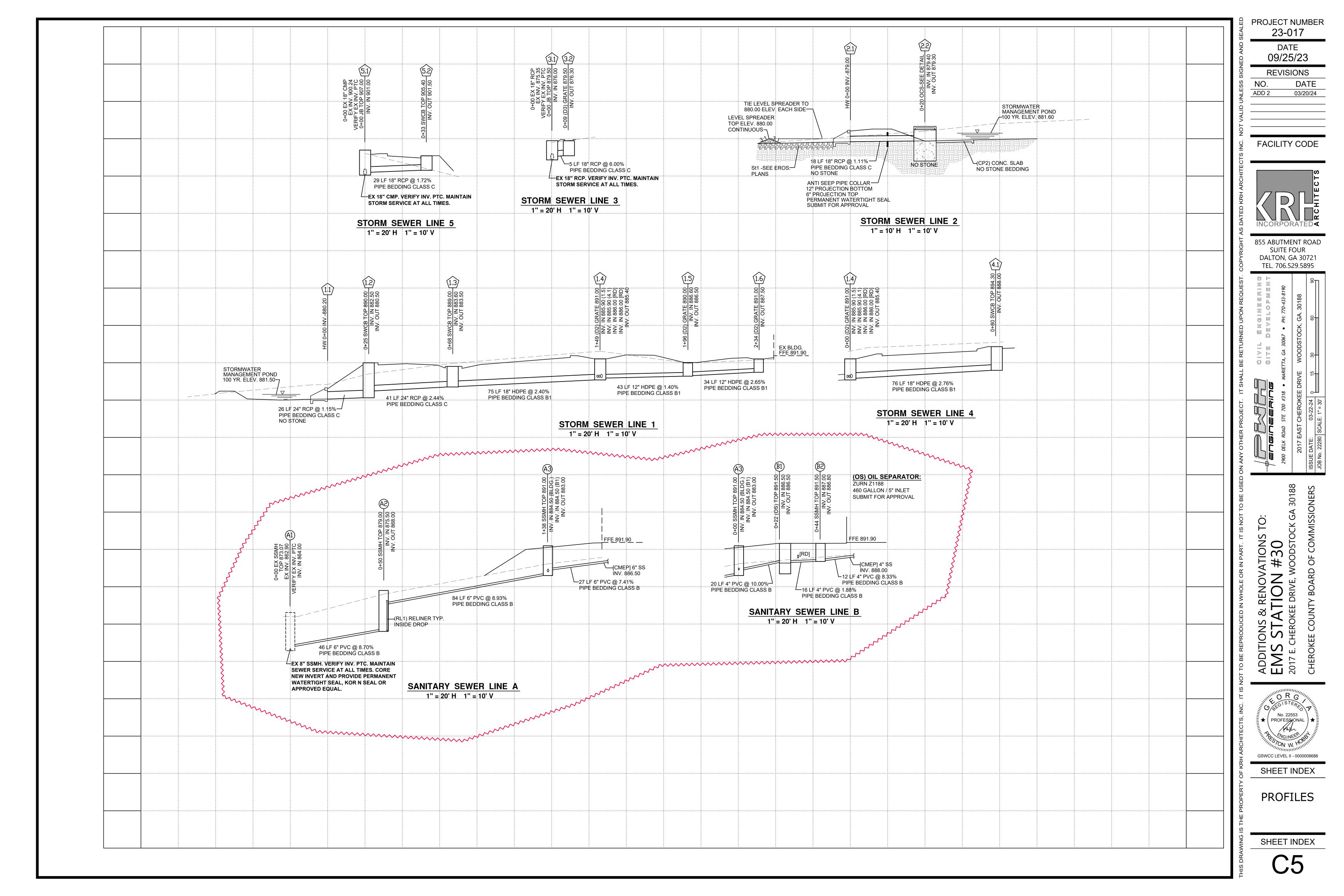
1. SEE SHEET C2.1 FOR IMPORTANT NOTES.

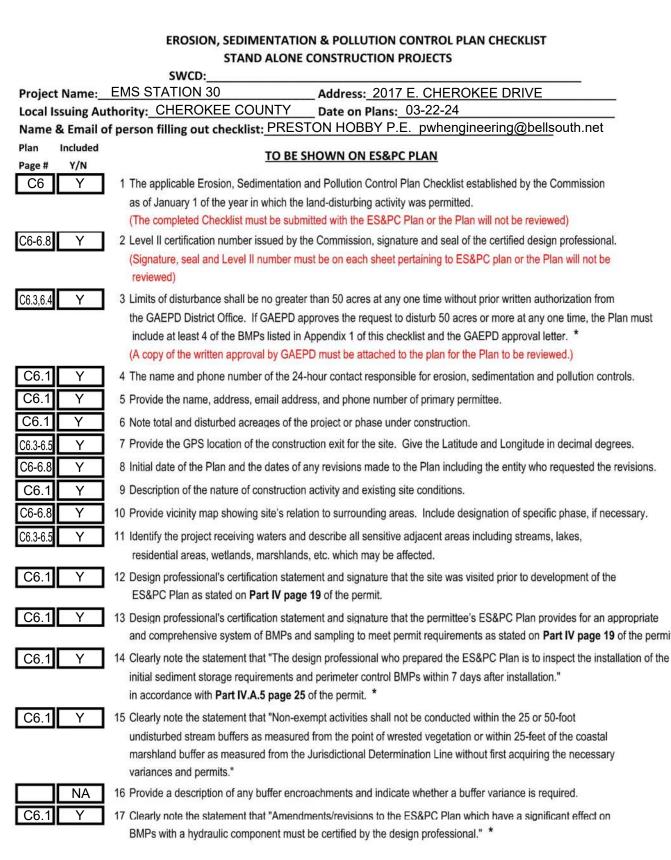
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IMENTATION & POLLUTION CONTROL PLAN CHECKLIST
ND ALONE CONSTRUCTION PROJECTS

Address: 2017 E. CHEROKEE DRIVE

Name & Email of person filling out checklist: PRESTON HOBBY P.E. pwhengineering@bellsouth.net

TO BE SHOWN ON ES&PC PLAN

C6 Y 1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted.

(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed) C6-6.8 Y 2 Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be

C6.3,6.4 Y 3 Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the GAEPD District Office. If GAEPD approves the request to disturb 50 acres or more at any one time, the Plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist and the GAEPD approval letter. * (A copy of the written approval by GAEPD must be attached to the plan for the Plan to be reviewed.)

C6.1 Y 4 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.

C6-6.8 Y 10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.

residential areas, wetlands, marshlands, etc. which may be affected.

C6.1 Y 12 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 19 of the permit.

C6.1 Y 13 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 19 of the permit. * C6.1 Y 14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation."

C6.1 Y 15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary

BMPs with a hydraulic component must be certified by the design professional." *

C6.1 Y	18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *
C6.1 Y	19 Clearly note statement that "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."
C6.1 Y	20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
C6.1 Y	21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be
	stabilized with mulch or temporary seeding."
C6.3-6.5 Y	22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of a Biota Impaired Stream Segment must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
NA	23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in Item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *
C6.3-6.4 Y	24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited. *
C6.1 Y	25 Provide BMPs for the remediation of all petroleum spills and leaks.
C6.1 Y	26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *
C6.1 Y	27 Description of practices to provide cover for building materials and building products on site. *
C6.1 Y	28 Description of the practices that will be used to reduce the pollutants in storm water discharges. *
C6.1 Y	29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
C6.2 Y	30 Provide complete requirements of Inspections and record keeping by the primary permittee. *
C6.2 Y	31 Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
C6.2 Y	32 Provide complete details for Retention of Records as per Part IV.F. of the permit. *
C6.2 Y	33 Description of analytical methods to be used to collect and analyze the samples from each location. *
C6.2 Y	34 Appendix B rationale for NTU values at all outfall sampling points where applicable. *
C6.3-6.4 Y	35 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged. *
	36 A description of appropriate controls and measures that will be implemented at the construction site including:
	(1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase. *

	PROJECT NUMBER
	DATE 09/25/23
C6.3-6.5 Y 37 Graphic scale and North arrow. C6.3-6.5 Y 38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:	
Map ScaleGround SlopeContour Intervals, ft.1 inch = 100ft orFlat 0 - 2%0.5 or 1	% NO. DATE
larger scale Rolling 2 - 8% 1 or 2 Steep 8% + 2,5 or 10	H ADD 2 03/20/24
NA 39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil	
and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov.	
NA 40 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual	Z
for Erosion & Sediment Control in Georgia 2016 Edition. * C6.3-6.4 Y 41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional	မှု FACILITY CODE
C6.1 Y 42 Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.	
Y 43 Delineation and acreage of contributing drainage basins on the project site.	ARCHITE
Y 44 Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. * C6.1 Y 45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are	
completed. C6.3-6.4 Y 46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without	
erosion. Identify/Delineate all storm water discharge points.	
C6.3-6.4Y47 Soil series for the project site and their delineation.C6.3-6.4Y48 The limits of disturbance for each phase of construction.	855 ABUTMENT ROAD
C6.1 Y 49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment	
storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a	Image: Softe FOOR Imag
sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must	. С Р ST
also be given. Worksheets from the Manual included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment when using equivalent controls. When discharging	REQUES
from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible,	
a written justification explaining this decision must be included in the Plan. C6.3-6.5 Y 50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for	
Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.	
C6.6-6.8 Y 51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set	E RETURNED
forth in the Manual for Erosion and Sediment Control in Georgia. C6.3-6.8 Y 52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting	BE RE
dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of the year that seeding will take place and for the appropriate geographic region of Georgia.	SHALL BE
* If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream, the * checklist items would be N/A.	
Effective January 1, 2024	RoJECT. IT STE 700 #318 03-22-24 0 .E: 1" = 30'
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s. Use alternative BMPs whose performance has been documented to be superior to conventional	
BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). (If using this item please refer to the Alternative BMP guidance	O BE USE 30188 NERS
document found at www.gaswcc.georgia.gov) t. Limit the total planned site disturbance to less than 15% impervious surfaces (excluding any state	A 30
mandated buffer areas from such calculations). All calculations must be included in the Plan.	RT. IT IS NOT TO BE L DNS TO: 30 DSTOCK GA 3018 DSTOCK GA 3018 COMMISSIONER
u. Conduct inspections during the intermediate grading and drainage BMP phase and during the final BMP phase of the project by the design professional who prepared the Plan in accordance with Part IV.A.5 of the permit.	S TC OCK
The Plan must include a statement that the primary permittee must retain the design professional who prepared the Plan to conduct inspections during the intermediate grading and drainage BMP phase and during the final BMP phase.	DDSTO CON: CON
v. Install Post Construction BMPs (e.g., runoff reduction BMPs) which remove 80% TSS as outlined in the Georgia Stormwater Management Manual known as the Blue Book or an equivalent or more	OR IN PART VATION WOODS RD OF CO
stringent design manual. Effective January 1, 2024	
* This requirement is different for infrastructure projects: Certified personnel for primary permittees shall conduct inspections at least once every seven	HOLE OR ENOVI RIVE, W BOARD
(7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Part IV.D.4.a.(3)(a) – (c) of the permit.	
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		т	HE ES&PC PLAN MUST INCLUDE AT LEAST FOUR (4) OF THE FOLLOWING BMPS FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO AN IMPAIRED STREAM SEGMENT AND FOR SITES WHICH EPD HAS APPROVED IN WRITING A REQUEST TO DISTURB 50 ACRES OR MORE AT ANY ONE TIME.
Plan	Included		The four items chosen must be appropriate for the site conditions.
Page #	Y/N		
		a.	During construction activities, double the width of the 25-foot undisturbed vegetated buffer along a State waters requiring a buffer and the 50-foot undisturbed vegetated buffer along all State waters classified as "trout streams" requiring a buffer. During construction activities, EPD will not grant variances to any such buffers that are increased in width.
		b.	Increase all temporary sediment basins and retrofitted storm water management basins to provide sediment storage of at least 3600 cubic feet (134 cubic yards) per acre drained.
C6.3,6.4	Υ	C.	Use baffles in all temporary sediment basins and retrofitted storm water management basins to a least double the conventional flow path length to the outlet structure.
C6.3,6.4	Y		A large sign (minimum 4 feet x 8 feet) must be posted on site by the actual start date of construction. The sign must be visible from a public roadway. The sign must identify the following (1) construction site, (2) the permittee(s), (3) the contact person(s) and telephone number(s), and (4) the permittee-hosted website where the Plan can be viewed must be provided on the submittee NOI. The sign must remain on site and the Plan must be available on the provided website until a NOT has been submitted.
		e.	Use flocculants or coagulants and/or mulch to stabilize areas left disturbed for more than seven (calendar days in accordance with Part III. D.1. of the current NPDES Permits.
C6.1	Y	f.	Conduct turbidity sampling after every rain event of 0.5 inch or greater within any 24-hour period, recognizing the exceptions specified in Part IV.D.6.d. of the current NPDES Permits.
		g.	Comply with the applicable end-of-pipe turbidity effluent limit, without the "BMP defense" as provided for in O.C.G.A. 12-7-6 (a)(1).
		h.	Reduce the total planned site disturbance to less than 50% impervious surfaces (excluding any State-mandated buffer areas from such calculations). All calculations must be included on the Pla
		i.	Limit the amount of disturbed area at any one time to no greater than 25 acres or 50% of the total planned site, whichever is less. All calculations must be included on the Plan.
		j.	Use "Dirt II" techniques available on the EPD website to model and manage construction storm water runoff (including sheet flow). All calculations must be included on the Plan. (https://epd.georgia.gov/erosion-and-sedimentation)
		k.	Add appropriate organic soil amendments (e.g., compost) and conduct pre- and post-construction soil sampling to a depth of six (6) inches to document improved levels of soil carbon after final stabilization of the construction site.
		I.	Use mulch filter berms, in addition to a silt fence, on the site perimeter wherever construction stor water (including sheet flow) may be discharged. Mulch filter berms cannot be placed in waterway or areas of concentrated flow.
		m	Use appropriate erosion control slope stabilization instead of concrete in all construction storm water ditches and storm drainages designed for a 25-year, 24-hour rainfall event.
		n.	Use flocculants or coagulants under a passive dosing method (e.g., flocculant blocks) within construction storm water ditches and storm drainages that feed into temporary sediment basins a retrofitted management basins.
C6.5	Υ	0.	Install sod for a minimum 20-foot width (in lieu of seeding) after final grade has been achieved, along the site perimeter wherever storm water (including sheet flow) may be discharged.
		p.	Conduct coil tosts to idontify and to imploment site specific fortilizor needs.
		q.	Certified personnel for primary permittees shall conduct inspections at least twice every seven (7 calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Part IV.D.4.a.(3)(a) – (c); secondary permittees, Part IV.D.4.b.(3)(a) – (c); and tertiary permittees Part IV.D.4.c.(3)(a) – (c) *
		r.	Apply the appropriate compost blankets (minimum depth 1.5 inches) to protect soil surfaces until vegetation is established during the final stabilization phase of the construction activity.

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St	Storm D
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Di	Diversion
Cw	Concrete
Tst	Temporar
Ds1	Disturbed
Ds2	Disturbed
Ds3	Disturbed
Du	Dust Con

EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES: (NOTES CORRESPOND TO STANDALONE CHECKLIST)

- 4. 24 HR. LOCAL CONTACT: CONTRACTOR:
- 5. PRIMARY PERMITTEE: CONTRACTOR:
- 6. TOTAL ACREAGE: 4.01 ACRES DISTURBED ACREAGE: 2.20 ACRES
- 9. PROPOSED CONSTRUCTION IS A NEW ATHLETIC STADIUM WITH SIDEWALKS, PARKING, DRIVES, FENCES,
- GRADING, SEWER, UTILITIES, AND ASSOCIATED IMPROVEMENTS AS SHOWN 12. I CERTIFY UNDER THE PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION.

PRESTON W. HOBBY 8686 Nath Printed Name GSWCC LEVEL II Date Certified By

- 13. I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS MEETS THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT No. GAR 100001.
- 03-22-24 Naf Certified By Date
- 14. THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION.
- 15. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50 FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25 FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
- 16. NO BUFFER VARIANCE IS REQUIRED.
- 17. AMENDMENTS / REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL. 18. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY
- A SECTION 404 PERMIT.
- 19. 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. 20. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED
- PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASUES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. 21. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 7 DAYS SHALL BE STABILIZED WITH
- MULCH OR TEMPORARY SEEDING. 24. CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES SHALL
- BE DONE IN DESIGNATED CONCRETE WASHOUT (Cw) AS SHOWN ON PLANS. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED. 33. STORMWATER SAMPLING:
- SAMPLE ANALYSIS

STORM WATER SAMPLES SHALL BE ANALYZED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 AND THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

STORM WATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT SAMPLING LOCATION (S) SHOWN OR DESIGNATED ON THE APPROVED E&SC PLANS. A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING 50 NTU, THE VALUE THAT WAS SELECTED FROM APPENDIX B IN PERMIT No. GAR100001. THE NTU IS BASED UPON SITE ACREAGE OF 20.10 ACRES TOTAL FOR THE PROJECT SITE, THE SURFACE DRAINAGE AREA OF 0-4.99 SQUARE MILES, AND RECEIVING WATER WHICH SUPPORTS WARM WATER FISHERIES.

CONTROL LEGEND

Barrier (Silt Fence)

- tion Entrance/Exit
- am
- Basin
- liment Trap
- rain Outlet Protection
- nd Blankets
- Washdown
- ry Sediment Trap
- Area Stabilization (Mulching Only)
- Area Stabilization (Temporary Seeding)
- Area Stabilization (Permanent Seeding)

- 03-22-24

CONSTRUCTION SCHEDULE													
ACTIVITY		MONTHS											
ACTIVITY	5/24	7/24	9/24	11/24	1/25	3/25	5/25	7/25	9/25	11/25	1/26	3/26	5/26
INITIAL / PERIMETER BMP'S													
SED. STORAGE BMP'S		ſ											
E & SC MAINTENANCE													
Ds1 / Ds2 TEMP. STABILIZATION													
CLEARING & GRUBBING													
GRADING													
BUILDING (S)													
UTITLITIES													
STORM / SAN. SEWER													
PAVEMENT													
LANDSCAPING													
Ds3 FINAL STABILIZATION													
THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO ANY LAND DISTURBING ACTIVITIES.													

Montevallo very channery loam, 30 Mof to 60 percent slopes

Montevallo-Townley complex, MtE 15 to 30 percent slopes

- 25. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL. STATE, AND FEDERAL REGULATIONS.
- SPILL CLEANUP AND CONTROL PRACTICES: FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER) THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT
- 1-800-426-2675. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS
- FOR SPILLS LESS THAN THAT 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND
- COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL 26. TEMPORARY SEDIMENT TRAPS, RETROFITS, OR SEDIMENT BASINS WILL BE INSTALLED AS SHOWN TO CONTROL SEDIMENT.
- WATER QUALITY DEVICE(S) AND WQV VOLUME WILL BE INSTALLED /PROVIDED TO TREAT IMPERVIOUS AREAS POST CONSTRUCTION. 27. PLASTIC SHEETING, TARPS, AND TEMPORARY ROOFS WILL BE INSTALLED TO COVER TRASH, BUILDING MATERIALS OR PRODUCTS, CONSTRUCTION WASTES, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, CLEANING MATERIALS, SANITARY WASTES, AND ALL OTHER SUCH MATERIALS OR SUBSTANCES TO MINIMIZE EXPOSURE TO
- PRECIPITATION AND DISCHARGE TO STORMWATER. 28. PRODUCT SPECIFIC PRACTICES:
- PETROLEUM BASED PRODUCTS -BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY
- INSPECTIONS AND REGULAR MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS, AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS. **PAINTS/FINISHES/SOLVENTS -**
- WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS. FERTILIZER/HERBICIDES -
- MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OD THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.
- **BUILDING MATERIALS -**ALL SUCH MATERIAL WILL BE DISPOSED OF USING PROPER WASTE DISPOSAL PROCEDURES.
- 36. APPROPRIATE CONTROLS AND MEASURES WILL INCLUDE: INITIAL SEDIMENT STORAGE AND PERIMETER CONTROLS AS SHOWN ON SHEET C6.3 WITH MINIMUM DISTURBANCE. INTERMEDIATE CONTROLS WILL INCLUDE TEMPORARY SEDIMENT STORAGE, TEMPORARY AND PERMANENT STABILIZATION, AND STORM OUTLET PROTECTION AS SHOWN ON SHEET C6.3. FINAL STABILIZATION INCLUDES (Ss) SLOPE STABILIZATION, LANDSCAPING, AND ESTABLISHMENT OF PERMANENT GRASSING ON
- ALL DISTURBED AREAS AS SHOWN ON SHEET C6.4. 41. ALL STATE WATERS LOCATED ON OR WITHIN 200 FEET OF THE PROJECT SITE ARE SHOWN.
- 42. ALL WETLANDS AND STATE WATERS LOCATED ON OR WITHIN 200 FEET OF THE PROJECT SITE ARE SHOWN.
- 44. HYDROLOGY STUDY AND STORMWATER MANAGEMENT PROPOSED, COPY OF HYDRO STUDY ATTACHED WITH SUBMITTAL. 45. RUNOFF COEFFICIENT:
- WEIGHTED PRE-CONSTRUCTION CN CURVE NUMBER: **70** WEIGHTED POST-CONSTRUCTION CN CURVE NUMBER: 85 49. SEDIMENT STORAGE:
- FLOATING SKIMMER IS INFEASIBLE. A PERMANENT RTRETROFIT AND FILTRATION DEVICE (#57 STONE) WILL PROVIDE INCREASED INFILTRATION WITH GREATER CAPACITY FOR HIGHER STORM FREQUENCIES.

LOCAL AUTHORITY EROSION CONTROL NOTES:

1. ALL MATERIALS, CONSTRUCTION, AND VEGETATIVE PRACTICES SHALL CONFORM TO THE "MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA", CURRENT EDITION. 2. THE CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION ENTRANCE PAD (CO) AT ALL TIMES IN A

CONDITION WHICH WILL PREVENT THE TRACKING OR FLOW OF MUD OR SILT ONTO PUBLIC STREETS OR RIGHT-OF-WAY.

3. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF ALL EROSION CONTROL MEASURES AND PRACTICES AS SHOWN ON THE PLANS PRIOR TO ANY LAND-DISTURBING ACTIVITIES.

4. THIS SITE IS WITHIN A 100 YEAR FLOOD HAZARD PER FEMA F.I.R.M. MAP 13057C0263E DATED 06/07/19.

5. OWNER / DEVELOPER: CHEROKEE COUNTY BOARD OF COMMISSIONERS

1130 BLUFFS PARKWAY

CANTON, GA. 30114

PHONE: 678-493-6000

24 HOUR CONTACT: JUD MARTIN: 678-493-6084

6. EXISTING LAND USE

THE SITE IS CURRENTLY DEVELOPED WITH AN EXISTING CHURCH, GRASS, BRUSH, OPEN AND WOODED AREAS. GROUND COVER IS SOIL, GRASS, SMALL BRUSH, WITH PARTIAL WOODED AREAS. THE SITE IS LOCATED AT 2017 E. CHEROKEE DRIVE, WOODSTOCK, GA 30188. PROPOSED CONSTRUCTION IS A NEW FIRE STATION, DRIVES, PARKING, GRADING, STORM SEWER, UTILITIES, AND RENOVATIONS WITH ASSOCIATED IMPROVEMENTS AS SHOWN.

7. ADDITIONAL EROSION CONTROL MEASURES OR DEVICES MAY BE REQUIRED BY THE LOCAL AUTHORITY OR THE ENGINEER.

8. THE CONTRACTOR SHALL MAINTAIN AND INSPECT EROSION CONTROL MEASURES ON A DAILY BASIS, AND AFTER EACH STORM EVENT. ALL EROSION CONTROL DEVICES SHALL BE CLEANED OF SEDIMENT AS REQUIRED FOR PROPER FUNCTION AND ALL SEDIMENT SHALL BE REMOVED FROM EVERY DEVICE AFTER EACH RAINFALL EVENT.

9. ALL DISTURBED AREAS SHALL BE TEMPORARILY AND PERMANENTLY GRASSED OR LANDSCAPED USING VEGETATIVE PRACTICES AS SHOWN ON THE PLANS AND SPECIFICATIONS. TEMPORARY GRASSING NOT MEETING PERMANENT GRASSING SPECIFICATION SHALL BE COMPLETELY REMOVED AND ERADICATED PRIOR TO INSTALLATION OF PERMANENT GRASSING.

10. THE CONTRACTOR SHALL NOT ENCROACH OR DISTURB IN ANY WAY THE STATE AND LOCAL DESIGNATED STREAM OR CREEK BUFFERS WHETHER SHOWN ON THE PLANS OR NOT. ALL STATE WATERS SHALL HAVE A MINIMUM 25 FOOT UNDISTURBED BUFFER AREA FROM THE TOP EDGE OF THE CREEK BANK ON EACH SIDE. LOCAL AUTHORITIES MAY HAVE BUFFER WIDTHS GREATER THAN 25 FEET CONTRACTOR SHALL VERIFY BUFFER WIDTH WITH LOCAL AUTHORITY PTC AND MAINTAIN BUFFER AT ALL TIMES.

11. SEE EROSION CONTROL DETAILS FOR DETAILS OF EROSION CONTROL MEASURES AND DEVICES. 12. LOCAL AUTHORITY LAND DISTURBANCE PERMIT MUST BE DISPLAYED ON SITE AT ALL TIMES AND IN PLAIN VIEW FROM A ROAD OR STREET.

13. INSTALL EROSION CONTROL MATS OR EQUIVALENT MATERIALS ON SLOPES EQUAL TO OR GREATER THAN 4H:1V AND 10 FOOT VERTICAL.

14. STABILIZE SLOPES, INSTALL (MB) MATTING AND BLANKETS AND VEGETATIVE COVER AS SOON AS FINAL GRADE IS COMPLETE.

15. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED DAILY, AFTER EACH RAIN, AND REPAIRED AND CLEANED AS NECESSARY.

16. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DETERMINED NECESSARY AFTER ON-SITE INSPECTION.

17. SILT FENCE SHALL MEET THE REQUIREMENTS OF SECTION 171 - TYPE C TEMPORARY SILT FENCE, OF THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, 1993 EDITION. 18. NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A MINIMUM 25 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, EXCEPT WHERE THE DIRECTOR HAS GRANTED A VARIANCE, OR WHERE A DRAINAGE STRUCTURE OR ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE

INCORPORATED IN THE PLANS AND IMPLEMENTED. NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 50 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS CLASSIFIED AS TROUT STREAMS, AS MEASURED HORIZONTALLY FROM FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, EXCEPT WHERE THE DIRECTOR HAS GRANTED APPROVAL FOR ALTERNATE BUFFER REQUIREMENTS IN ACCORDANCE WITH O.C.G.A. 12-7-6, OR WHERE A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED IN THE PLANS AND IMPLEMENTED.

19. 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, UNDER THE PROFESSIONAL'S DIRECT SUPERVISION. 20. WETLANDS SHOWN ON THIS PLAN ARE TAKEN FROM AN AQUATIC RESOURCE DELINEATION FOR FOR COLDWELL BANKER COMMERCIAL BY CONTOUR ENVIRONMENTAL INC., 4462 BRETTON COURT, SUITE 14, ACWORTH, GA 30101, DATED MAY 25, 2022, DANA A. SPOTTS, REPA, EP, WITH PERMISSION FROM THE OWNERS.

NPDES MONITORING NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR FULL COMPLIANCE WITH ALL NPDES NOTIFICATION, MONITORING, DOCUMENTATION, RECORD KEEPING, AND PERMIT REQUIREMENTS. COPY OWNER IMMEDIATELY ON ALL DOCUMENTATION REQUIRED.

2. CONTRACTOR SHALL CONDUCT ADDITIONAL SAMPLING PER APPENDIX 1 ITEM f.

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(3). Off-site vehicle tracking of dirt, soils, and sediments and the generation of dust shall be minimized or eliminated to the maximum extent practical. The Plan shall include the best management practice to be implemented at the site or construction activity.

(4). Nothing in this permit relieves a permittee from any obligation to comply with all applicable State and local regulations of waste disposal, sanitary sewer, septic and petroleum storage systems.

(5). The Plan shall include best management practices for the remediation of all petroleum spills and leaks as appropriate.

(6). The Plan shall include best management practices for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of vehicles. Washout of the drum at the construction site is prohibited. Additional information about best management practices for concrete washout is available at the USEPA website.

(7). All permittees are required to minimize the discharge of pollutants from dewatering trenches and excavations. Discharges are prohibited unless managed by appropriate controls.

4. Inspections.

a. Permittee requirements.

(1). Each day when any type of construction activity has taken place at a primary permittee's site, certified personnel provided by the primary permittee shall inspect: (a) all areas at the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment and (b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off-site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted.

(2). Measure and record rainfall within disturbed areas of the site that have not met final stabilization once every 24 hours except any non-working Saturday, non-working Sunday and non-working Federal holiday. The data collected for the purpose of compliance with this permit shall be representative of the monitored activity. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.

(3). Certified personnel/(provided by the primary permittee) shall inspect the following at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any non-working Saturday, non-working Sunday or

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> any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first): (a) disturbed areas of the primary permittee's construction site; (b) areas used by the primary permittee for storage of materials that are exposed to precipitation; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the primary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.a.(4). These inspections must be conducted until a Notice of Termination is submitted.

> (4). Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination has been submitted) the areas of the site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s).

> (5). Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection.

> (6). A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.a.(5). of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction site that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a certification that the best management practices are in compliance with the Erosion,

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(2). However, where manual and automatic sampling are imposs in this permit), or are beyond the permittee's control, the perm samples as soon as possible, but in no case more than twelve (12 beginning of the stormwater discharge.

(3). Sampling by the permittee shall occur for the following qualif

(a). For each area of the site that discharges to a receiving an outfall, the first rain event that reaches or exceeds stormwater discharge that occurs during normal business in this permit after all clearing and grubbing operat completed, but prior to completion of mass grading o drainage area of the location selected as the sampling locat

(b). In addition to (a) above, for each area of the site that receiving water or from an outfall, the first rain event exceeds 0.5 inch with a stormwater discharge that occur business hours as defined in this permit either 90 day sampling event or after all mass grading operations have but prior to submittal of a NOT, in the drainage area selected as the sampling location, whichever comes first;

(c). At the time of sampling performed pursuant to (a) a BMPs in any area of the site that discharges to a receivin an outfall are not properly designed, installed and mainta action shall be defined and implemented within two (2) bu turbidity samples shall be taken from discharges from tha for each subsequent rain event that reaches or exceeds normal business hours* until the selected turbidity standa until post-storm event inspections determine that BM designed, installed and maintained;

(d). Where sampling pursuant to (a), (b) or (c) above is possible (or not required because there was no discharge), accordance with Part IV.D.4.a.(6), must include a written the inspection report of why sampling was not performed justification does not relieve the permittee of any subse obligations under (a), (b) or (c) above; and

(e). Existing construction activities, i.e., those that are before the effective date of this permit, that have me required by (a) above shall sample in accordance with (b) construction activities that have met the sampling requir shall not be required to conduct additional sampling other by (c) above.

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Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit.

5. Maintenance. The Plan shall include a description of procedures to ensure the timely maintenance of vegetation, erosion and sediment control measures and other protective measures identified in the site plan.

6. Sampling Requirements. This permit requires the monitoring of nephelometric turbidity in receiving water(s) or outfalls in accordance with this permit. This paragraph shall not apply to any land disturbance associated with the construction of single-family homes which are not part of a subdivision or planned common development unless five (5) acres or more will be disturbed. The following procedures constitute EPD's guidelines for sampling turbidity.

a. *Sampling Requirements* shall include the following:

(1). A USGS topographic map, a topographic map or a drawing (referred to as a topographic map) that is a scale equal to or more detailed than a 1:24000 map showing the location of the site or the stand alone construction; (a) the location of all perennial and intermittent streams and other water bodies as shown on a USGS topographic map, and all other perennial and intermittent streams and other water bodies located during mandatory field verification, into which the stormwater is discharged and (b) the receiving water and/or outfall sampling locations. When the permittee has chosen to use a USGS topographic map and the receiving water(s) is not shown on the USGS topographic map, the location of the receiving water(s) must be hand-drawn on the USGS topographic map from where the stormwater(s) enters the receiving water(s) to the point where the receiving water(s) combines with the first blue line stream shown on the USGS topographic map;

(2). A written narrative of site specific analytical methods used to collect, handle and analyze the samples including quality control/quality assurance procedures. This narrative must include precise sampling methodology for each sampling location;

(3). When the permittee has determined that some or all outfalls will be sampled, a rationale must be included on the Plan for the NTU limit(s) selected from Appendix B. This rationale must include the size of the construction site, the calculation of the size of the surface water drainage area, and the type of receiving water(s) (i.e., trout stream or supporting warm water fisheries); and

(4). Any additional information EPD determines necessary to be part of the Plan. EPD will provide written notice to the permittee of the information necessary and the time line for submittal.

Page 36 of 46 t No. GAR100001	State of Georgia Department of Natural Resources Environmental Protection Division	Page 37 of 46 Permit No. GAR100001	State of Georgia Department of Natural Resour Environmental Protection Div
ossible (as defined ermittee shall take 12) hours after the	*Note that the permittee may choose to meet th (b) above by collecting turbidity samples from a or exceeds 0.5 inch and allows for sampling	any rain event that reaches	F. Retention of Records.1. The primary permittee shall
	week.		shall be readily available at a until such time as a NOT is su
lifying events: ring water or from s 0.5 inch with a s hours as defined	7. Non-stormwater discharges. Except for flows from fire fighting stormwater listed in Part III.A.2. of this permit that are combined w associated with construction activity must be identified in the Plan. T ensure the implementation of appropriate pollution prevention measure component(a) of the discharge	vith stormwater discharges The Plan shall identify and	a. A copy of all Notice b. A copy of the Ero permit; c. The design profess
ations have been operations, in the	component(s) of the discharge. E. Reporting.		accordance with Part I d. A copy of all sampl
cation;	1. The applicable permittees are required to submit the sampling result		e. A copy of all inspe permit;
nat discharges to a nt that reaches or urs during normal	shown in Part II.C. by the fifteenth day of the month following the reperiods are months during which samples are taken in accordance we result shall be in a clearly legible format. Upon written notification	vith this permit. Sampling on, EPD may require the	f. A copy of all vio accordance with Part I g. Daily rainfall info
ays after the first e been completed, ea of the location	applicable permittee to submit the sampling results on a more freq analysis of any stormwater discharge(s) or the receiving water(s) beyon stated in this permit must be reported in a similar manner to the EPD.	nd the minimum frequency	permit. 2. Copies of all Notices of In
; and (b) above, if	be signed in accordance with Part V.G.2. Sampling reports must be su electronic submittal service provided by EPD. Sampling reports must such time as a NOT is submitted in accordance with Part VI.	ubmitted to EPD using the	(including all calibration and continuous monitoring instru Sedimentation and Pollution
ing water or from ntained, corrective	2. All sampling reports shall include the following information:		Intent to be covered by this period by the permittee who either permittee is a second
business days, and hat area of the site ls 0.5 inch during	a. The rainfall amount, date, exact place and time of sampling or b. The name(s) of the certified personnel who perfor		that the NOT is submitted in maintained at the permittee's once the construction activity
lard is attained, or MPs are properly	measurements; c. The date(s) analyses were performed; d. The time(s) analyses mere initiated.		request of the EPD at any time
s required but not	d. The time(s) analyses were initiated;e. The name(s) of the certified personnel who performed the andf. References and written procedures, when available, for the		Part V. STANDARD PERM A. Duty to Comply.
), the permittee, in ten justification in	methods used; g. The results of such analyses, including the bench sheets, inst		1. Each permittee must con
ed. Providing this osequent sampling	disks or tapes, etc., used to determine these results; h. Results which exceed 1000 NTU shall be reported as "exceed i. Certification statement that sampling was conducted as per th		noncompliance constitutes a §§12-5-20, et seq.) and is grou a permit renewal application. or condition of this permit sh
e occurring on or met the sampling	3. All written correspondence required by this permit shall be su certified mail (or similar service) to the appropriate District Office of	the EPD according to the	their applicable terms and con
(b). Those existing ired by (b) above er than as required	schedule in Appendix A of this permit. The permittee shall retain a cop at the construction site or the proof of submittal shall be readily available from commencement of construction until such time as a NOT is sub Part VI.	ole at a designated location	2. Each permittee must docum his/her site within seven (7) violations must be submitted to fourteen (14) days of his/her d

PROJECT NUMBER 23-017 Page 35 of 46 State of Georgia Page 34 of 46 Permit No. GAR100001 Permit No. GAR100001 Department of Natural Resources DATE **Environmental Protection Division** 09/25/23 (b). The downstream sample for each receiving water(s) must be taken downstream of the confluence of the last stormwater discharge from the REVISIONS permitted activity (i.e., the discharge farthest downstream at the site) but upstream of any other stormwater discharge not associated with the NO. DATE permitted activity. Where appropriate, several downstream samples from ADD 2 03/20/24 across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the downstream (1). Sample containers should be labeled prior to collecting the samples. turbidity value. (2). Samples should be well mixed before transferring to a secondary container. (c). Ideally the samples should be taken from the horizontal and vertical center of the receiving water(s) or the stormwater outfall channel(s). (3). Large mouth, well cleaned and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleaned thoroughly to avoid contamination. (d). Care should be taken to avoid stirring the bottom sediments in the FACILITY CODE (4). Manual, automatic or rising stage sampling may be utilized. Samples required receiving water(s) or in the outfall stormwater channel. by this permit should be analyzed immediately, but in no case later than 48 hours (e). The sampling container should be held so that the opening faces after collection. However, samples from automatic samplers must be collected no later than the next business day after their accumulation, unless flow through upstream. automated analysis is utilized. If automatic sampling is utilized and the automatic (f). The samples should be kept free from floating debris. sampler is not activated during the qualifying event, the permittee must utilize manual sampling or rising stage sampling during the next qualifying event. Dilution of samples is not required. Samples may be analyzed directly with a (g). Permittees do not have to sample sheet flow that flows onto properly calibrated turbidimeter. Samples are not required to be cooled. undisturbed natural areas or areas stabilized by the project. For purposes \square of this section, stabilized shall mean, for unpaved areas and areas not covered by permanent structures and areas located outside the waste (5). Sampling and analysis of the receiving water(s) or outfalls beyond the disposal limits of a landfill cell that has been certified by EPD for waste minimum frequency stated in this permit must be reported to EPD as specified in Part IV.E. disposal, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures as 855 ABUTMENT ROAD defined in the Manual (excluding a crop of annual vegetation and a (1). For construction activities the primary permittee must sample all receiving SUITE FOUR water(s), or all outfall(s), or a combination of receiving water(s) and outfall(s). seeding of target crop perennials appropriate for the region). **DALTON, GA 30721** Samples taken for the purpose of compliance with this permit shall be TEL. 706.529.5895 (h). All sampling pursuant to this permit must be done in such a way representative of the monitored activity and representative of the water quality of (including generally accepted sampling methods, locations, timing, and the receiving water(s) and/or the stormwater outfalls using the following frequency) as to accurately reflect whether stormwater runoff from the minimum guidelines: construction site is in compliance with the standard set forth in Parts ZZ (a). The upstream sample for each receiving water(s) must be taken III.D.3. or III.D.4., whichever is applicable. immediately upstream of the confluence of the first stormwater discharge from the permitted activity (i.e., the discharge farthest upstream at the site) d. Sampling Frequency. but downstream of any other stormwater discharges not associated with (1). The primary permittee must sample in accordance with the Plan at least once the permitted activity. Where appropriate, several upstream samples from ω across the receiving water(s) may need to be taken and the arithmetic for each rainfall event described below. For a qualifying event, the permittee shall sample at the beginning of any stormwater discharge to a monitored receiving average of the turbidity of these samples used for the upstream turbidity ₩ [⊾] water and/or from a monitored outfall location within in forty-five (45) minutes or as soon as possible. – ⊑ ≥ ⊢ U W Page 38 of 46 Page 46 of 46 State of Georgia Permit No. GAR100001 Department of Natural Resources Permit No. GAR100001 urces **Environmental Protection Division** vision **APPENDIX B** hall retain the following records at the construction site or the records Nephelometric Turbidity Unit (NTU) TABLES t a designated alternate location from commencement of construction submitted in accordance with Part VI: ices of Intent submitted to EPD: rosion, Sedimentation and Pollution Control Plan required by this **Trout Streams** Surface Water Drainage Area, square miles 0-4.99 5-9.99 10-24.99 25-49.99 50-99.99 100-249.99 250-499.99 500+ ssional's report of the results of the inspection conducted in t IV.A.5. of this permit; 1.00-10 150 300 pling information, results, and reports required by this permit; pection reports generated in accordance with Part IV.D.4.a. of this $10.01 - 2^4$ 500 Site Size iolation summaries and violation summary reports generated in acres 25.01-50 30188 t III.D.2. of this permit; and COMMISSIONERS 50.01-100 300 formation collected in accordance with Part IV.D.4.a.(2). of this 100.01 +100 дA ntent. Notices of Termination, inspection reports, sampling reports 0 and maintenance records and all original strip chart recordings for STOCK strumentation) or other reports requested by the EPD, Erosion, on Control Plans, records of all data used to complete the Notice of Waters Supporting Warm Water Fisheries S s permit and all other records required by this permit shall be retained 0 Surface Water Drainage Area, square miles produced or used it for a period of at least three years from the date \underline{C} 0-4.99 5-9.99 10-24.99 25-49.99 50-99.99 100-249.99 250-499.99 500+ \mathbf{M} in accordance with Part VI. of this permit. These records must be ОF e's primary place of business or at a designated alternative location # 1.00-10 750 Ο 750 ity has ceased at the permitted site. This period may be extended by BOARD ime upon written notification to the permittee. 10.01-25 Site Size C RIVE, acres 25.01-50 750 REN 0

State of Georgia Department of Natural Resources **Environmental Protection Division** b. Sample Type. All sampling shall be collected by "grab samples" and the analysis of these samples must be conducted in accordance with methodology and test procedures established by 40 CFR Part 136 (unless other test procedures have been approved); the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001" and guidance documents that may be prepared by the EPD. c. Sampling Points.

50.01-100

100.01 +

MIT CONDITIONS

omply with all applicable conditions of this permit. Any permit a violation of the Georgia Water Quality Control Act (O.C.G.A. ounds for enforcement action; for permit termination; or for denial of n. Failure of a primary permittee to comply with any applicable term shall not relieve any other primary permittee from compliance with onditions of this permit.

cument in their records any and all known violations of this permit at 7) days of his/her knowledge of the violation. A summary of these ed to EPD by the permittee at the addresses shown in Part II.C. within discovery of the violation.

drainage area (square miles). The NTU matrix value arrived at from the above tables is the one to use in Part III.D.4. Example 1: For a site size of 12.5 acres and a "trout stream" drainage area of 37.5 square miles, the NTU value to use in Part III.D.4. is 75 NTU.

To use these tables, select the size (acres) of the construction site. Then, select the surface water

600

100

200

100

Example 2: For a site size of 51.7 acres and "waters supporting warm water fisheries" drainage area of 72 square miles, the NTU value to use in Part III.D.4. is 100 NTU.

SHEET INDEX

GSWCC LEVEL II - 000008686

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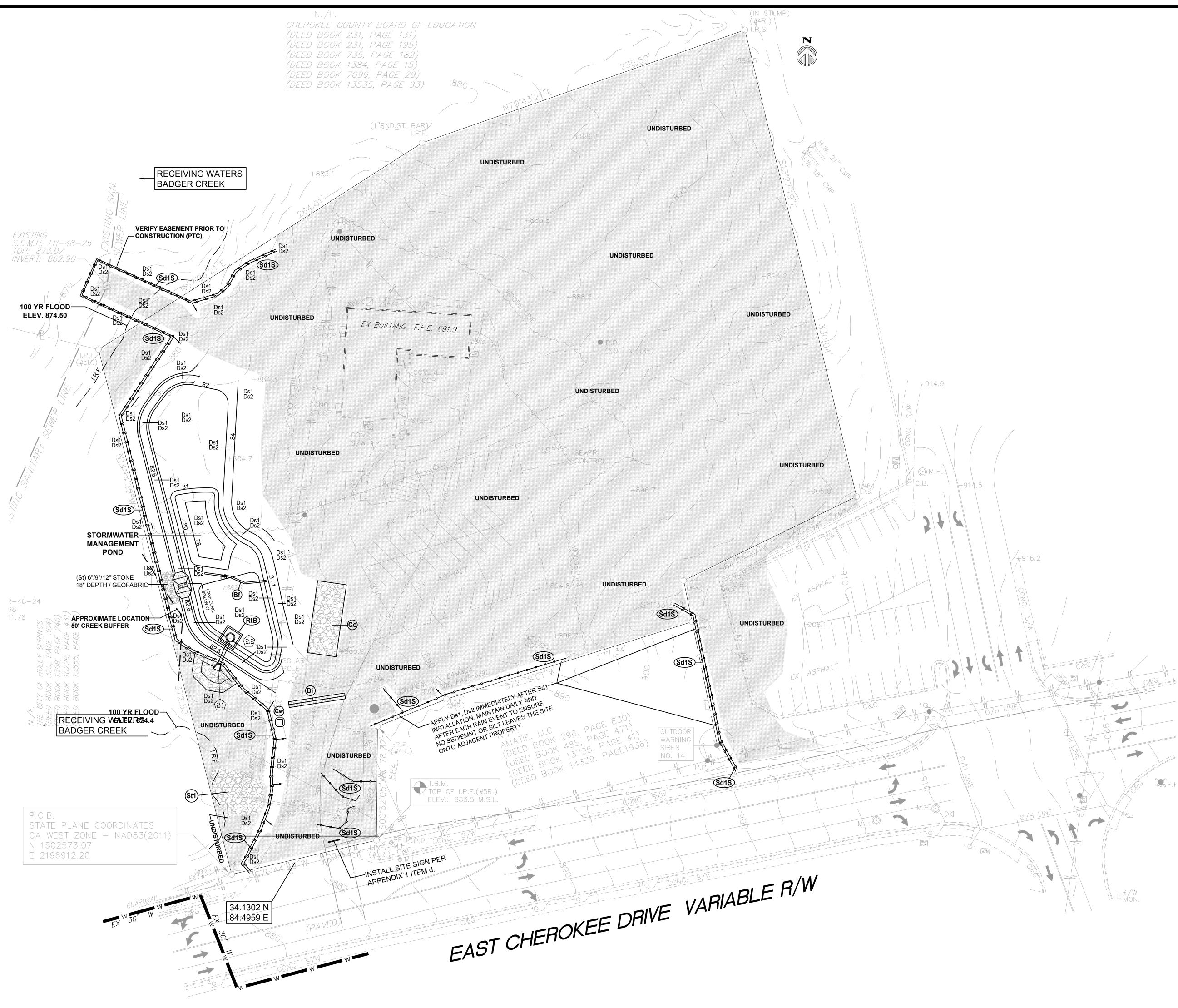
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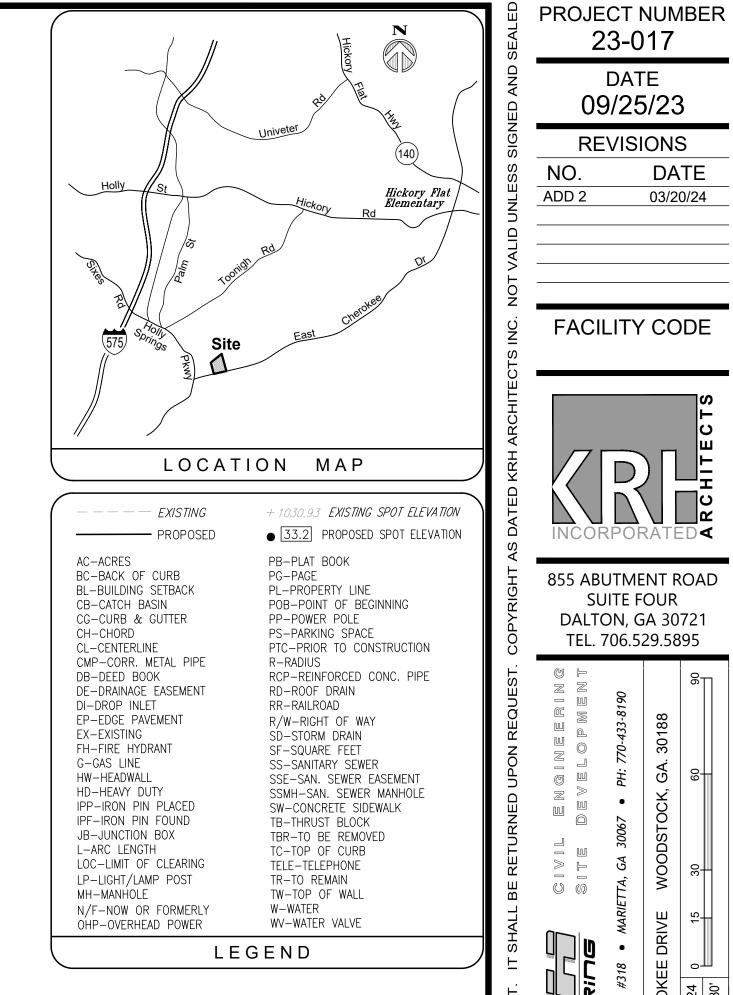
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DATE

03/20/24

CHEROKEE COUNTY BOARD OF COMMISSIONERS

30188

WOODSTOCK GA

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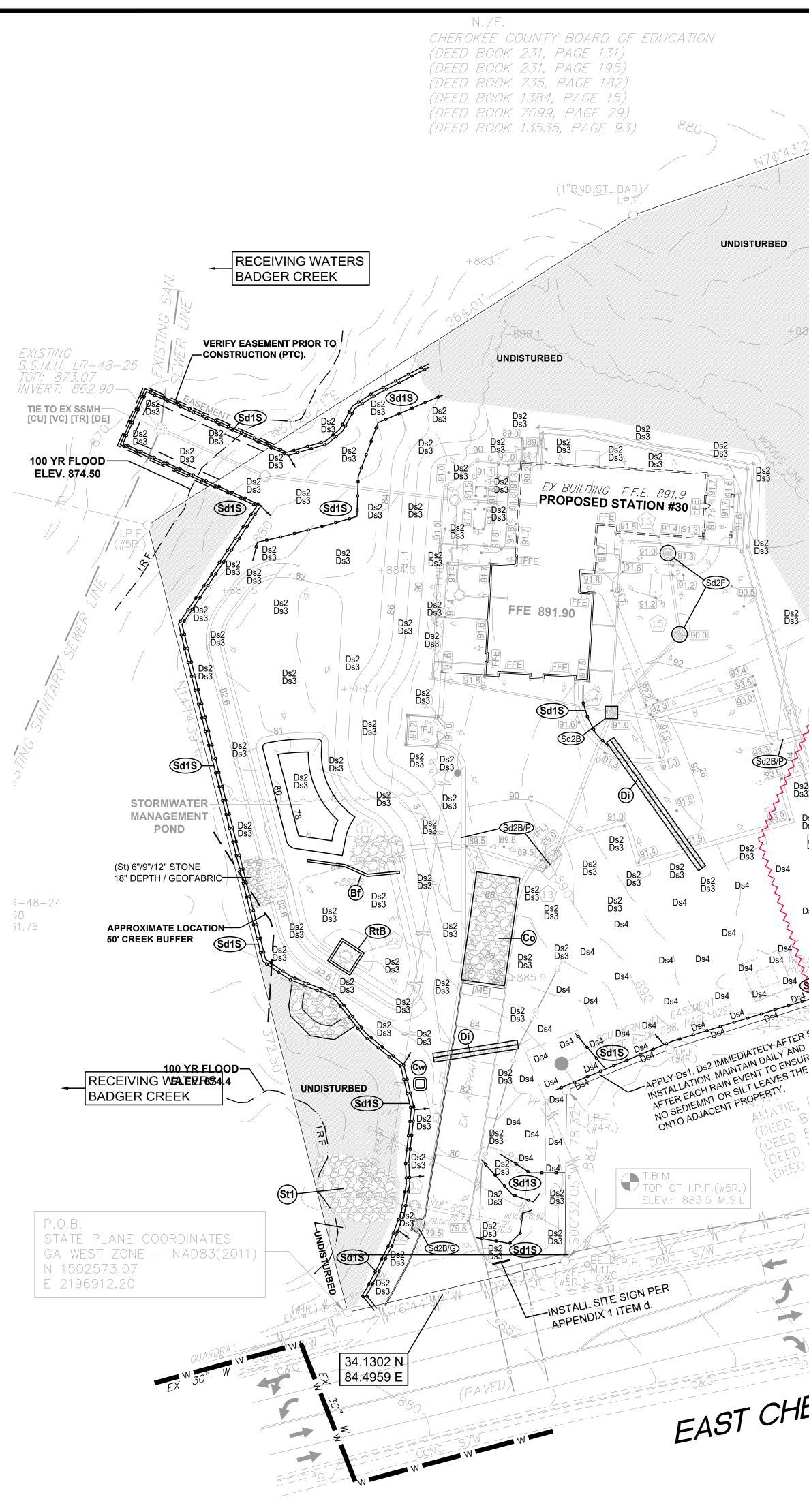
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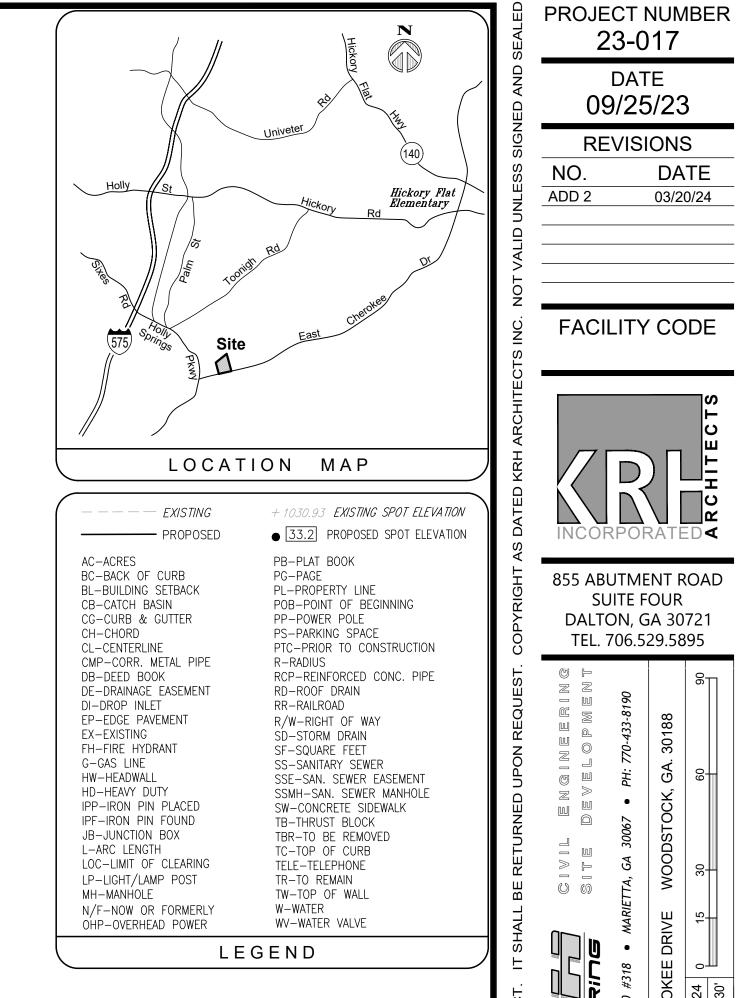
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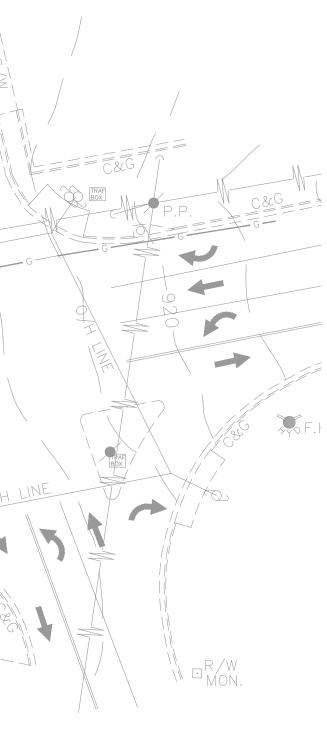
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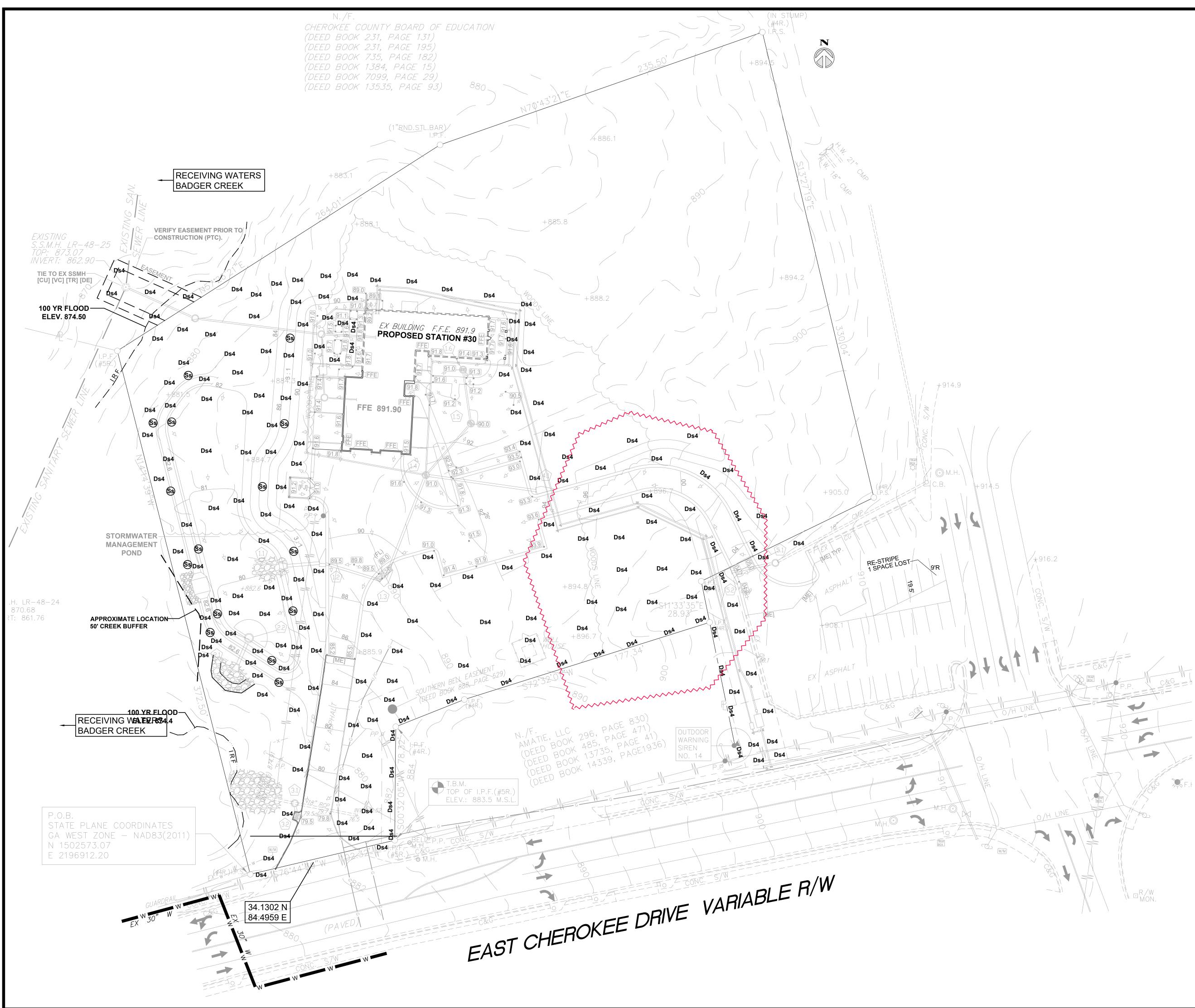


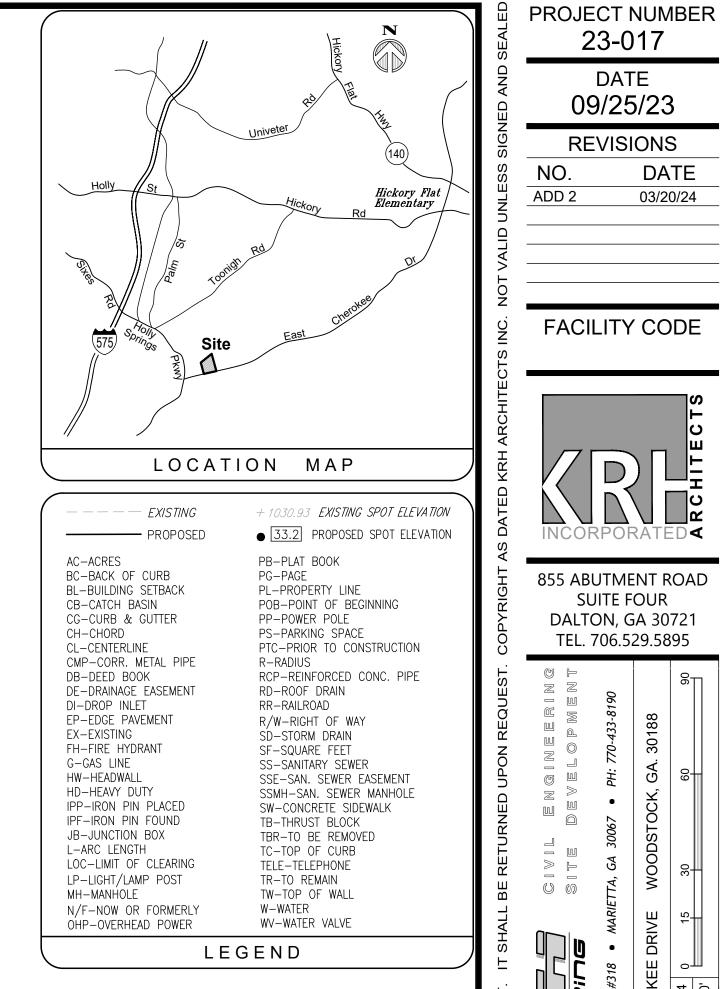
N UNDISTURBED UNDISTURBED UNDISTURBED +894.2 UNDISTURBED Ds2 Ds3 +914.9 UNDISTURBED summer Ds Ds2 Ds3 Ds2 Ds3 UNDISTURBED Ds2 Ds3 Ds2 Ds3 4905.0 Ds/ Ds/ Ds2 Ds3 Ds2 Ds3 Ds2 Ds3 /+916.2 RE-STRIPE 1 SPACE LOST-+894. Ds4 (Sd1S Sd1S Ds2 Ds3 VIT OR SILT LEAVES THE SITE ((Sd1 EAST CHEROKEE DRIVE VARIABLE R/W





NCORPORATED 855 ABUTMENT ROAD SUITE FOUR DALTON, GA 30721 TEL. 706.529.5895 30188 CHEROKEE COUNTY BOARD OF COMMISSIONERS WOODSTOCK GA TO #30 **RENOV** TION DRIVE, CHEROKEE \mathfrak{A} ADDITIONS & ய 2017 UNUT OR G No. 22553 🕈 🛛 PROFESSIONAL 🗎 🖈 GSWCC LEVEL II - 000008686 SHEET INDEX EROSION CONTROL INTERMEDIATE PHASE SHEET INDEX



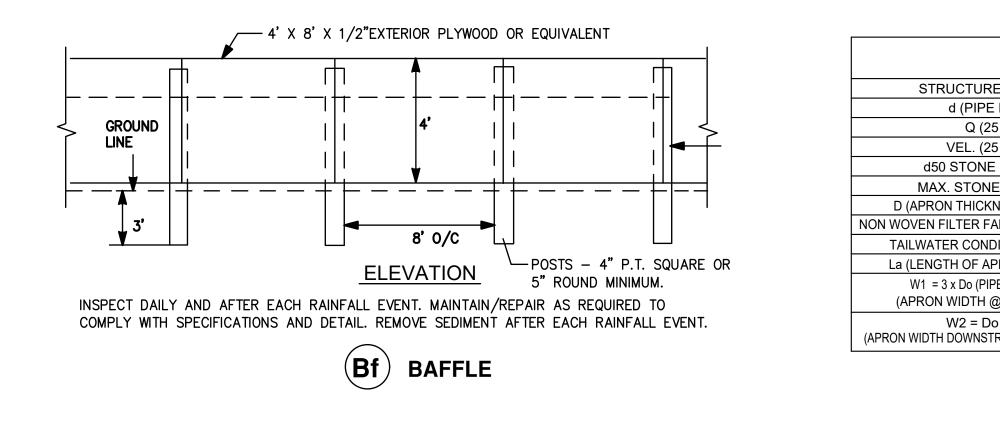




DATE

03/20/24

	Rate p	er Rate per	PL	ANTING DATE	ES		Rate per	Rate per	PL	ANTING DATE	S
SPECIES	1000 \$		Mountain	Piedmont	Coastal	SPECIES	1000 S.F.	Acre	Mountain	Piedmont	Coasta
Bermuda, Comr	non					RYE	3.9 LB	168 LB	8/1-12/1	9/1-1/1	10/1-3
Jnhulled Seed		3 10 LB	NO	10/1-3/1	11/1-2/1	Ryegrass, Annual	1.0 LB	40 LB	8/1-5/1	8/1-4/1	9/1-4,
Bermuda, Comr	non					Millet, Browntop	1.0 lb	40 lb	4/1-6/1	4/1-7/1	4/1-7/
Hulled Seed	0.2 LE	3 10 LB	NO	3/1-8/1	2/15-8/1	Lovegrass, Weeping	0.1 lb	4.0 lb	3/1-6/1	3/1-6/1	2/1-6,
_espedeza, Seri	cea					Lespedeza, Annual	1.0 LB	40 LB	2/1-5/1	2/1-5/1	1/1-3,
Inscarified	1.7 LE	3 75 LB	1/1-12/1	1/1-12/1	1/1-12/1	WHEAT	4.1 LB	180 LB	9/1-12/1	9/1-12/1	9/15-2
Lespedeza						Millet, Pearl	1.1 lb	50 lb	5/1-7/1	4/15-9/1	4/1-9,
Jnscarified	1.7 LE	3 75 LB	1/1-12/1	1/1-12/1	1/1-12/1	BARLEY	3.3 LB	144 LB	8/15-11/15	8/15-12/15	9/1-1
ovegrass, Weep	oing 0.1 LE	3 4.0 LB	3/15-6/15	3/1-6/15	2/1-6/15						
Fescue, Tall	1.1 LE	3 50 LB	8/1-11/1	8/15-11/1	NO						
Switchgrass	1.0 lb	40 lb	3/15-6/1	3/15-6/1	3/15-6/1						
Bahia	1.4 lb	60 lb	1/1-12/1	1/1-12/1	1/1-12/1						
		FERTILIZER REG	UIREMENTS			LIME AND FERTI	LIZER:				
		ANALYSIS OR			N	1. AGRICULTURAL		ED UNLESS SOIL	TESTS INDICATE	OTHERWISE. API	PLY
SPECIES	YEAR	EQUIVALENT N-P-K	RATE	TOP DR	ESSING RATE	AGRICULTURAL LIMI APPLICATION.	E AT A RATE OF	ONE TON PER	ACRE. GRADED	AREAS REQUIRE	LIME
Cool season	First	6-12-12	1500 lbs/ac	50-100) lbs/ac 1/2/	2. SOILS CAN BE			LIZER IS NEEDED). ON REASONAB	BLY FERTIL
grasses	Second Maintenance	6-12-12 10-10-10	1000 lbs/ac) lbs/ac	SOILS, FERTILIZER FOR SOILS OF VEI			700 POUNDS O	F 10-10-10 FE	RTILIZER
Cool season	First	6-12-12	1500 lbs/ac) lbs/ac 1/	OR THE EQUIVALEN	NT PER ACRE (*	12-16 LBS./100	0 SQ. FT.). FER	TILIZER SHOULD	BE
grasses and	Second	0-10-10	1000 lbs/ac	: _					WIT A	UUN, NIF, UK U	
legumes Ground covers	Maintenance First	0-10-10	400 lbs/ac 1300 lbs/ac			MULCHING:					
STOUTH COVEIS	Second	10-10-10	1300 lbs/ac	3/ _			_CH WITHOUT SI	EEDING SHOULD	BE CONSIDERED	FOR SHORT TEF	
Pine seedlings	Maintenance First	10-10-10 20-10-5	1100 lbs/ac one 21-gram			PROTECTION. SE	E Ds1, DISTURI	BED AREA STABIL	IZATION (MULCHI	NG ONLY).	
ine securings	11130		per seedling pl	aced							
Shrub	First	0-10-10	700 lbs/ac				RBED ARE	A STABILIZ	ATION (TEM	IPORARY S	EEDIN
_espedeza	Maintenance	0-10-10	700 lbs/ac	4/		REFER			ON AND SEDIME TILIZER RATES,		
Temporary	First	10-10-10	500 lbs/ac	30 lbs/	′ac 5/		ONTHEN DETAI	J, LIME & FEN	TILIZEN NATES,	AND SECIFICA	10113.
cover crops seeded alone											
Warm season	First	6-12-12	1500 lbs/ac	50-100) lbs/ac 2/6/						
grasses	Second Maintenance	6-12-12 10-10-10	800 lbs/ac 400 lbs/ac	50-100 30 lbs/) lbs/ac 2/	FOR TEMPORARY F	ROTECTION O	F CRITICAL AR	EAS:		
Warm season	First	6-12-12	1500 lbs/ac	· · ·		MULCHING MATERIA					
grasses and	Second Maintenance	0-10-10 0-10-10	1000 lbs/ac	;	40 07	1. Dry straw or h 2. Wood waste, cl					bout 6
legumes	Maintenance	0-10-10	400 105/ 00			9 tons per acr 3. Erosion control		netting, such	as excelsior,	jute, textile a	nd plast
LIME RATES A	ND ANALYSIS	<u>:</u>				mating and ne 4. Polyethylene fil	tting-applied	in accordance	e with manufa	cturer's spec	ifications
		ION IS TO BE ESTABLI S OR AT THE RATE OF	•			protection.	n-secured o	ver burks or	stockpiled sol	i material for	tempor
		FICATIONS OF THE GE				APPLYING AND AN	CHORING MUL	.CH:			
		NAL EQUIPMENT SHALI T 90% OF THE MATER				1. Apply straw or	hay mulch	 uniformly or b			
NOT LESS TH	AN 50% WILL F	PASS THROUGH A 50-				appropriate an with the disk s	set straight c	or with a spec	ial "packer di	isk." The disk	may be
	IROUGH A 100- BY HYDRAULIC	-MESH SIEVE. SEEDING SHALL BE (CALCITIC OR DOLO	MITIC "FINFLY	GROUND	smooth or ser 12 inches apa	rt. The edges	of the disk	should be dul	I enough not	to cut
LIMESTONE", (GROUND SO TH	AT 98% OF THE MATE	RIAL WILL PASS	THROUGH A 20		mulch but to 2. Spread wood v	press it into	the soil leavin	ng much of it	t in an erect	position
		/ILL PASS THROUGH A LOMITIC LIMESTONE IN			OASTAL PLAIN.	is needed. 3. Commercial m		,			
	COAST FLATWO				· · · ·	with the mater 4. Apply asphalt	ial.	0			
MULCHING RA						traffic areas.)	so urea nas	annorni appeo	mance (do no	n use in pede	estriun
		5 STEEPER THAN 3 PE HAT GERMINATION CANI									
BOTTOM OF S	SPILLWAYS, AND	ON ROADBANKS.				TO CONSERVE MO 1. Grain straw or					
BE APPLIED A	AT THE RATE O	AY OF GOOD QUALITY F 2 TONS PER ACRE.				 Grain straw or Pine needles: - Wood waste: 4 	4" to 6" dep " to 8" dept	th h			
,	PER ACRE; OR	, SE WOOD CELLULOSE			AT THE RATE	4. Shredded resid	ues: 4" to 8	"depth		., .	1 1•1•
OF 500 POUN	NDS PER ACRE,	AND DRY STRAW O	R DRY HAY AT TH	HE RATE LISTED	ABOVE; OR,	When using or the normal ar	nount needed	for plant gro	wth to offset	the tie up o	aaition t f N by
		OF SERICEA LESPEDI				the decomposi	tion of mulch). 			-
IN SUFFICIENT	GUANTITY MAY	BARK AT A THICKNES BE USED WHERE OF									I V /
ARE PLANTED; 6. SOIL RETENTIO		EROSION CONTROL NE	TTING, OTHER MA	NUFACTURED M	ATERIALS, OR						,
		ED IN ADDITION TO M							N AND SEDIMEN TILIZER RATES, A		
									,		
D	STURBED	AREA STABILIZ	ATION (PEF	RMANENT S	SEEDING)						
						1					
		"MANUAL FOR EROS DETAILS, LIME & FE									



		St RIP	RAP/APR	ON SIZIN	IG		
STRUCTURE No.	1.1	2.1	St1				
d (PIPE DIA.)	24"	18"	18"				
Q (25 YR.)	20 cfs	8 cfs	5 cfs				
VEL. (25 YR.)	9 fps	10 fps	9 fps				
d50 STONE SIZE	12"	12"	12"				
MAX. STONE DIA.	18"	18"	18"				
(APRON THICKNESS)	24"	24"	24"				
OVEN FILTER FABRIC	DOT STD.	DOT STD.	DOT STD.				
ILWATER CONDITION	MIN.	MIN.	MIN.				
(LENGTH OF APRON)	25'	20'	35'				
W1 = 3 x Do (PIPE Dia.) APRON WIDTH @ HW)	20'	30'	20'				
W2 = Do + La WIDTH DOWNSTREAM)	AS SHOWN						

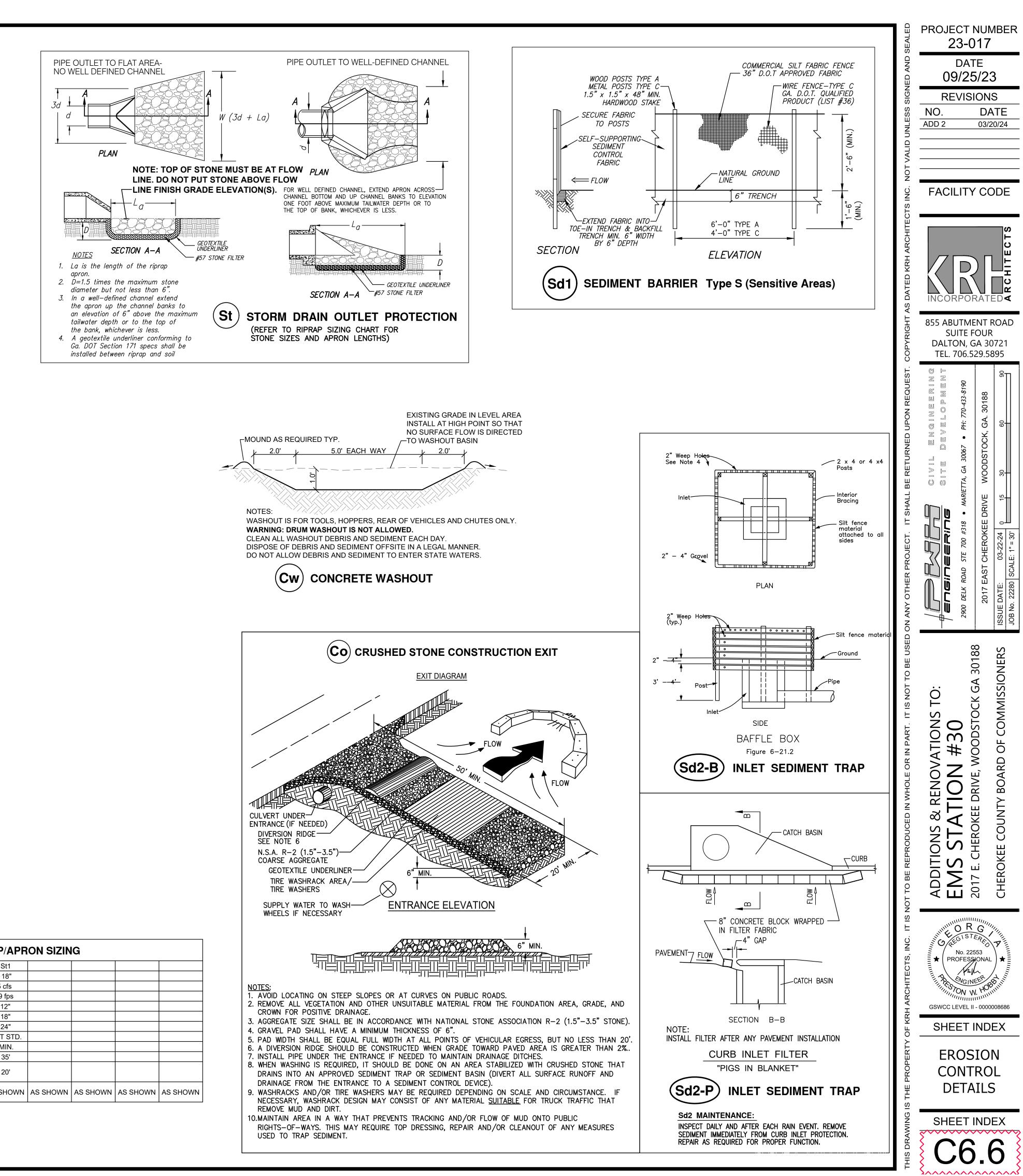


Table C-1 Graded Rip-Rap Stone

Flow Velocity			Size Inches (Sq. Opening)		Filter Stone
(ft./sec.)	N.S.A. No. ¹	Max.	Avg. ²	Min.	N.S.A. No. ¹
2.5	R-1	1 1/2	3/4	No. 8	FS-1
4.5	R-2	3	1 1/2	1	FS-1
6.5	R-3	6	3	2	FS-2
9.0	R-4	12	6	3	FS-2
11.5	R-5	18	9	5	FS-2
13.0	R-6	24	12	7	FS-3
14.5	R-7	30	15	12	FS-3

¹ National Stone Association

² At least 50% of the individual stone particles must be equal or larger than this listed size

Table C-2. Fitter Bedding Stone

N.S.A. No ¹	Max.	Size Inches (Sq. opening) Avg. ²	Min. ³
FS-1	3/8	#30 mesh	#100 mesh
FS-2	2	#4	#100 mesh
FS-3 GSWCC (Amended - 2013)	6 1/2	2 1/2	#16 C-
National Stone Association			

At least 50% of the individual stone particles must be equal or larger than this listed size

³ 85 - 100% of the individual stone particles may be less than listed size

Table C-3. Graded Rip-Rap Stone

1	Siz	ze inches (Sq. openi	ng)	
D.O.T. No.1	Max.	Avg.	Min.	Common Uses
Туре 3	12	9	5	Creek Banks Pipe Outlets
Type 1	24	12	7	Lakes & Shorelines Rivers
Georgia Department of Transportation				

Table C-4. Filter Bedding Stone

D.O.T. No.1	Nominal Sizes (inches)	
3	2" - 1"	
4	1 1/2" - 3/4"	
5	1" - 1/2"	
6	3/4" - 3/8"	
57	1" - No. 4	
Georgia Department of Transportation		
GSWCC (Amended - 2013)		Г С-:

Table C-1 Graded Rip-Rap Stone

Dust Control on **Disturbed** Areas



Controlling surface and air movement of dust on construction sites, roads, and demolition sites. PURPOSE

•To prevent surface and air movement of dust from exposed soil surfaces.

 To reduce the presence of airborne substances that may be harmful or injurious to human health, welfare, or safety, or to animals or plant life.

CONDITIONS This practice is applicable to areas subject to

surface and air movement of dust where on and off-site damage may occur without treatment. METHOD AND MATERIALS

A. Temporary Methods

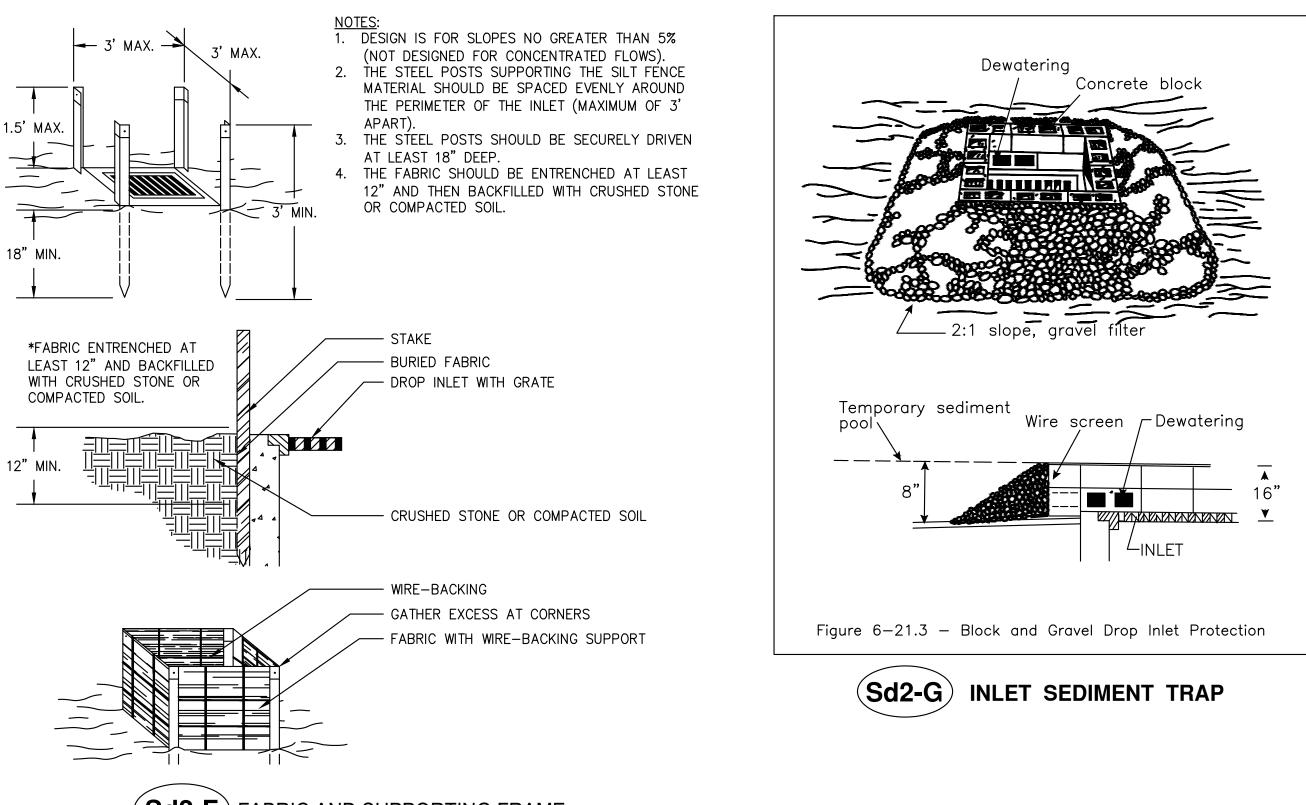
Mulches. See standard Ds1 - Disturbed Area Stabilization (With Mulching Only). Synthetic resins may be used instead of a sphalt to bind mulch material. Refer to specification Tae - Tackifiers.

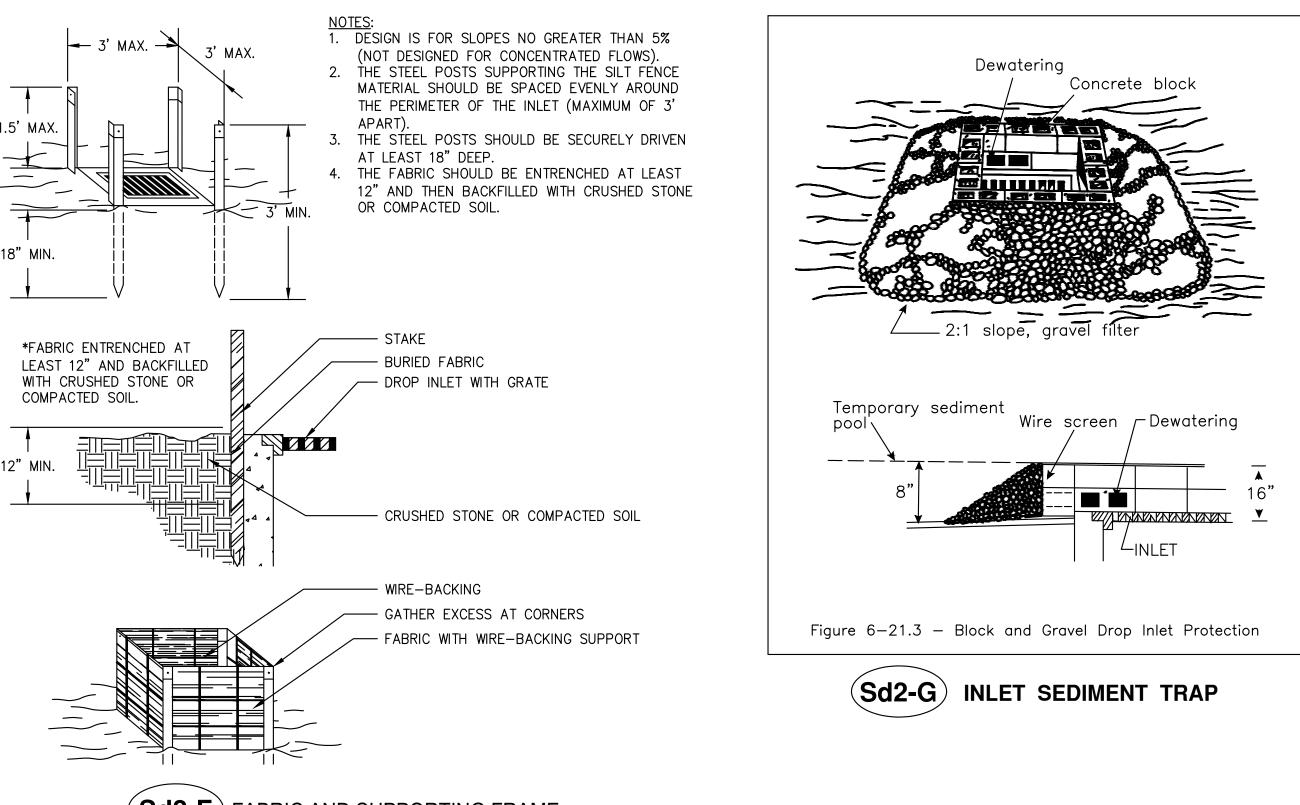
Resins should be used according to manufacturer's recommendations. Vegetative Cover. See specification Ds2 -Disturbed Area Stabilization (With Temporary

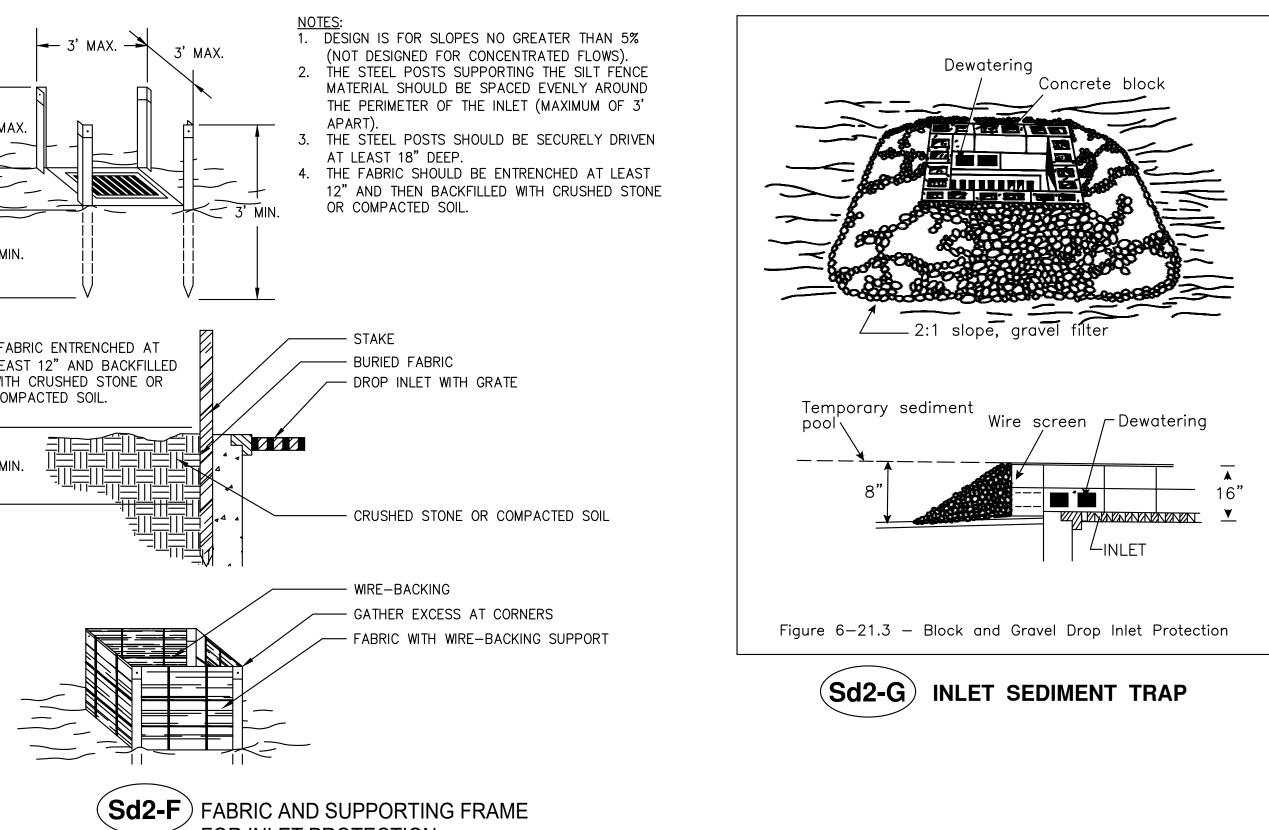
Seeding). Spray-on Adhesives. These are used on miner-

alsoils (not effective on muck soils). Keep traffic off these areas. Refer to specification Tac - Tackifiers. Tillage. This practice is designed to roughen

and bring clods to the surface. It is an emergency GSWCC 2016 Edition







GSWCC (Amended - 2013)



measure that should be used before wind erosion starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart, spring-toothed harrows, and similar plows are examples of equipment that may produce the desired effect.

Irrigation. This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet. Repeat as needed.

Barriers. Solid board fences, snowfences, burlap fences, crate walls, bales of hav and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 15 times their height are effective in controlling wind erosion.

Calcium Chloride. Apply at rate that will keep surface moist. May need retreatment.

B. Permanent Methods

Permanent Vegetation. See specification Ds3 -Disturbed Area Stabilization (With Permanent Vegetation). Existing trees and large shrubs may afford valuable protection if left in place.

Topsoiling. This entails covering the surface with less erosive soil material. See specification Tp - Topsoiling.

Stone. Cover surface with crushed stone or coarse gravel. See specification Cr-Construction Road Stabilization.



(**Du**) DUST CONTROL 6-55

EXTEND Cd STONE INTO SILT FENCE EACH SIDE - PLACE AT DOWNSTREAM ROW (IF MULTIPLE ROWS) WIDTH ON PLAN -SILT FENCE Sd1 TYP. HIGH POINT OF Cd -EACH WAY _____3' GROUND LINE-(Cd1) CHECK DAM AT SILT FENCE ELEVATION TYP. L = The distance such that points A and B are of equal elevation. SPACING BETWEEN CHECK DAMS GEOTEXTILE UNDERLINER

INSTALL SILT FENCE AT CL Cd

STONE CHECK DAM

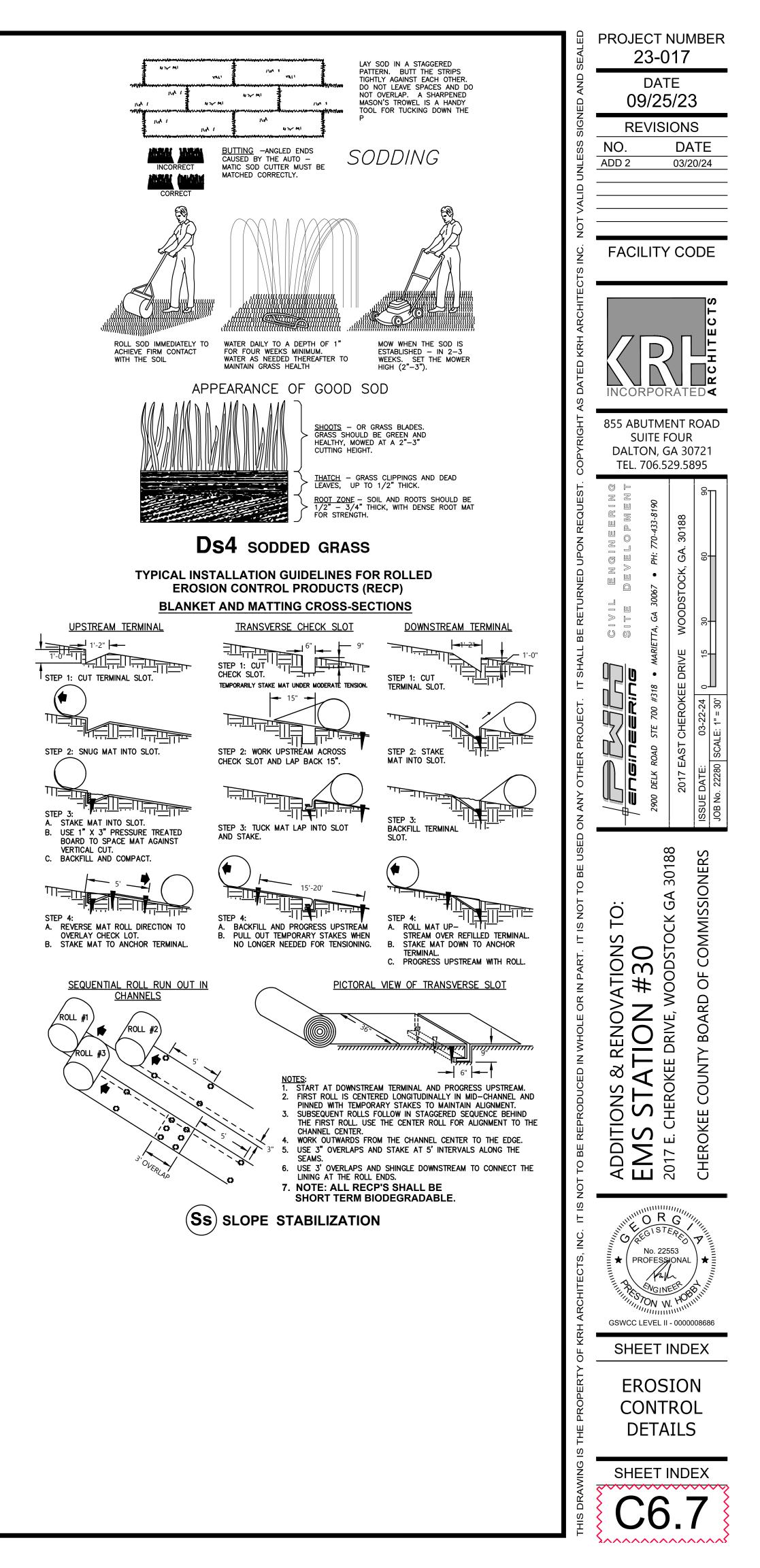
 24^{2}

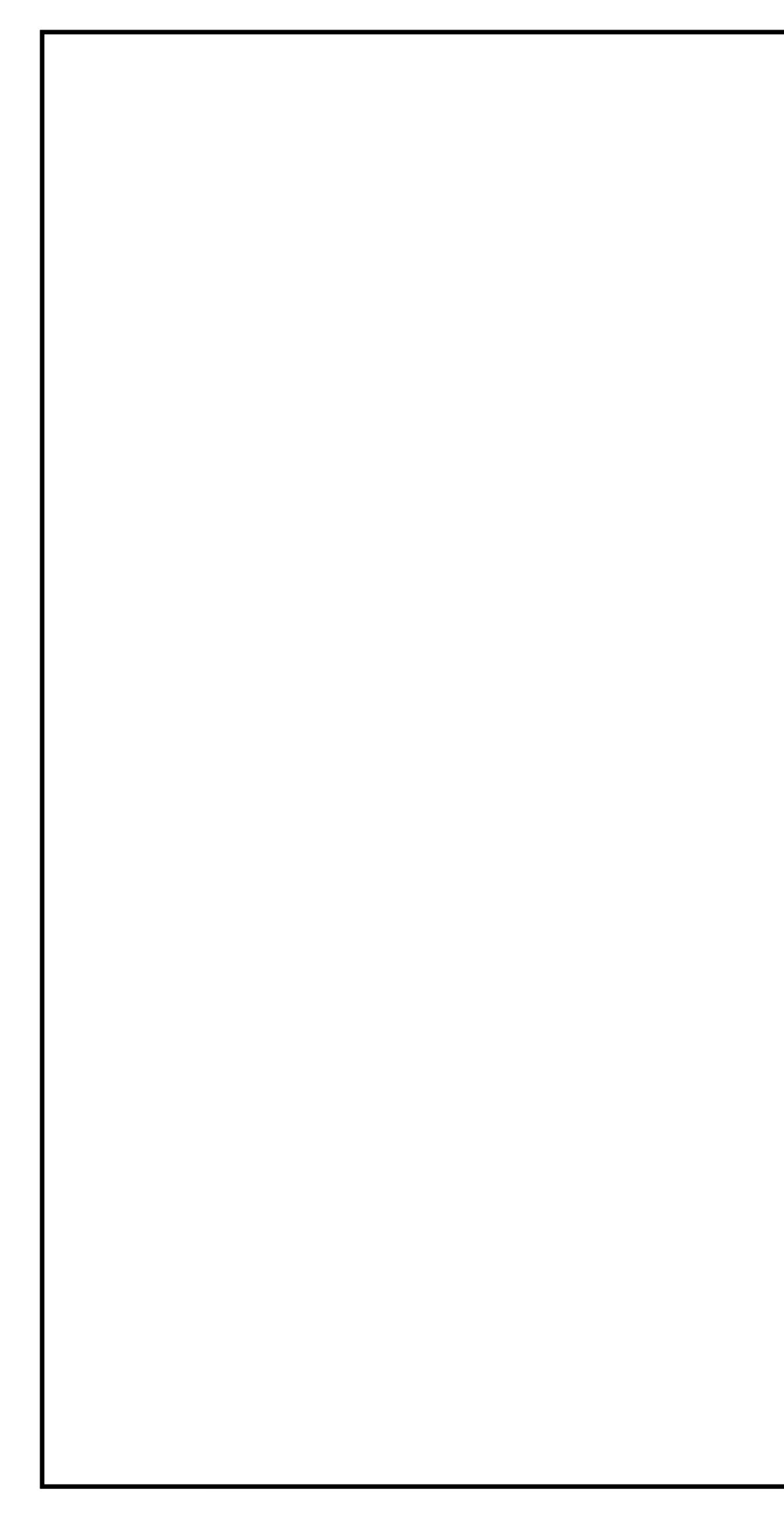
- GEOTEXTILE UNDERLINER 1. CFS IN THE CHANNEL / DITCH THE CHECK DAM IS BEING USED IN: 4-8 CFS 2. ABOVE 2.0 CFS: YES X NO 3. IF YES, LIST BMP'S BEING USED IN CONJUNCTION WITH CHECK DAMS:
- St, Sd1-S, Baffle, Di, Ds1, Ds2, Ds3

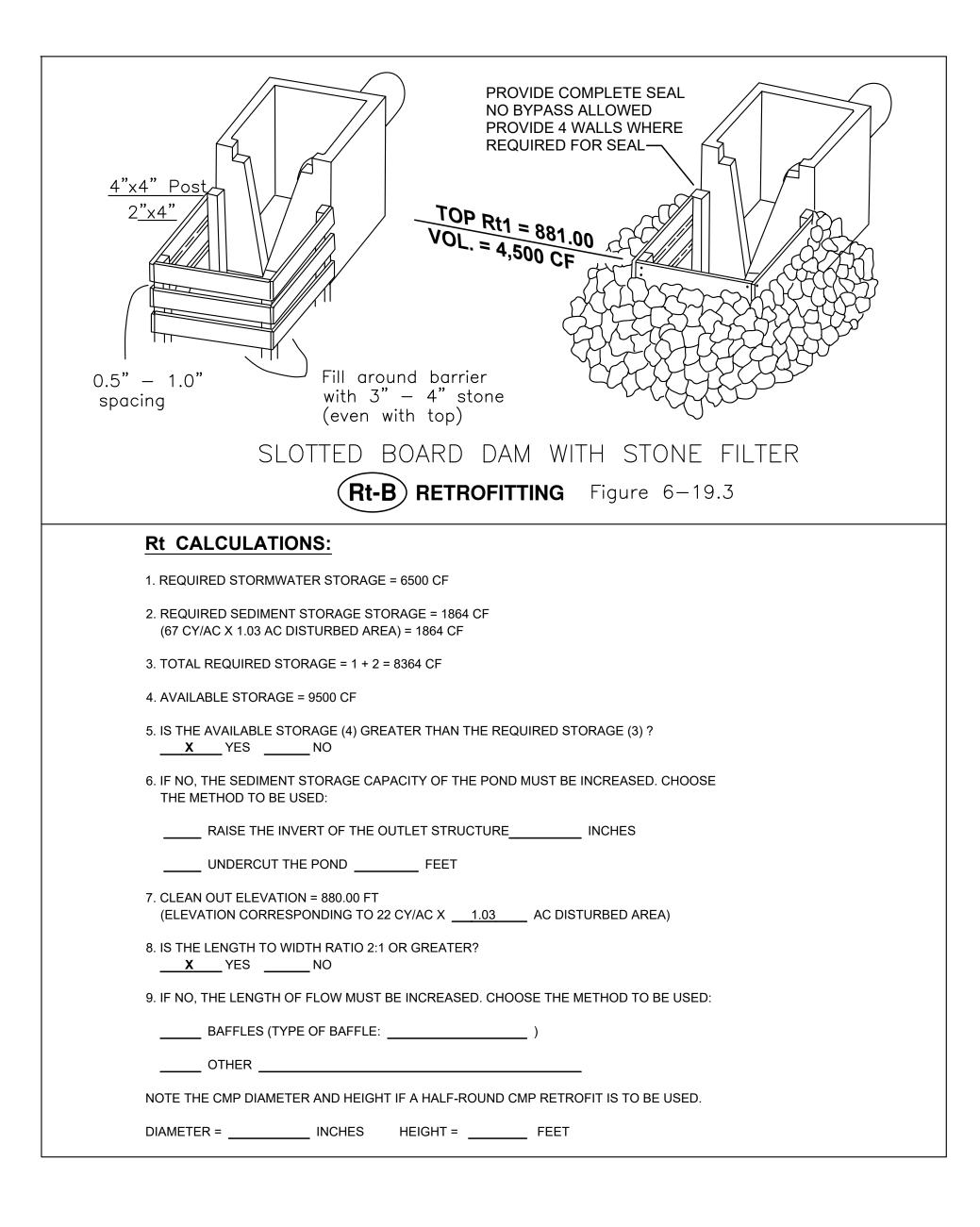


STEEL FRAME AND SILT FENCE INSTALLATION

FOR INLET PROTECTION

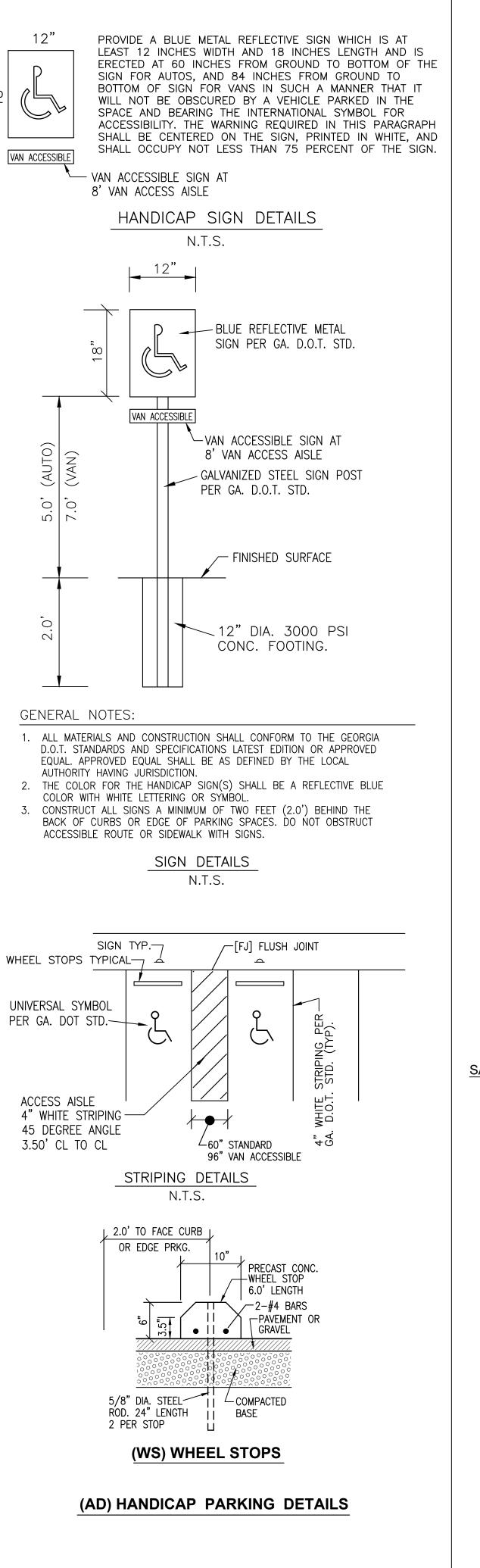


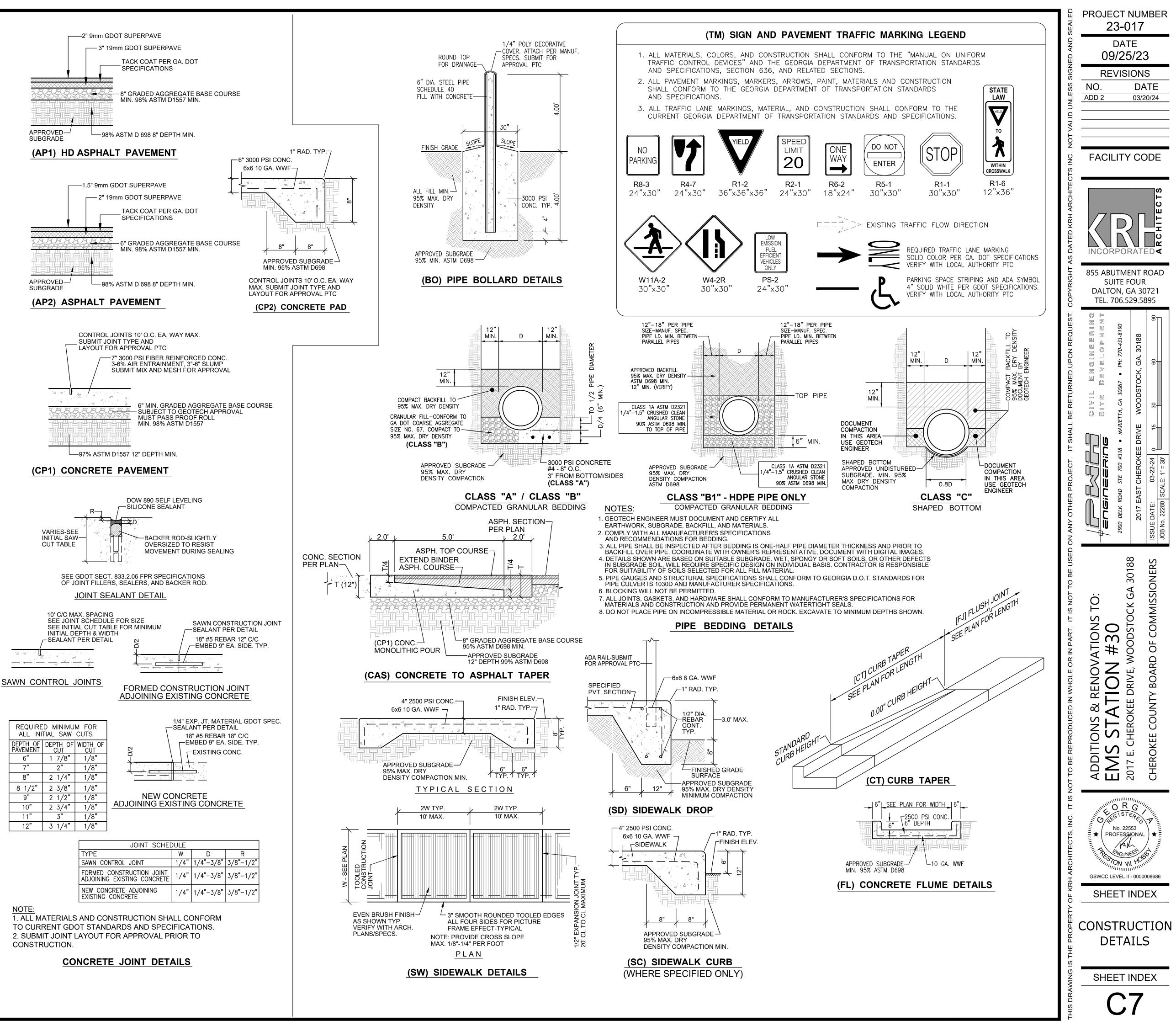


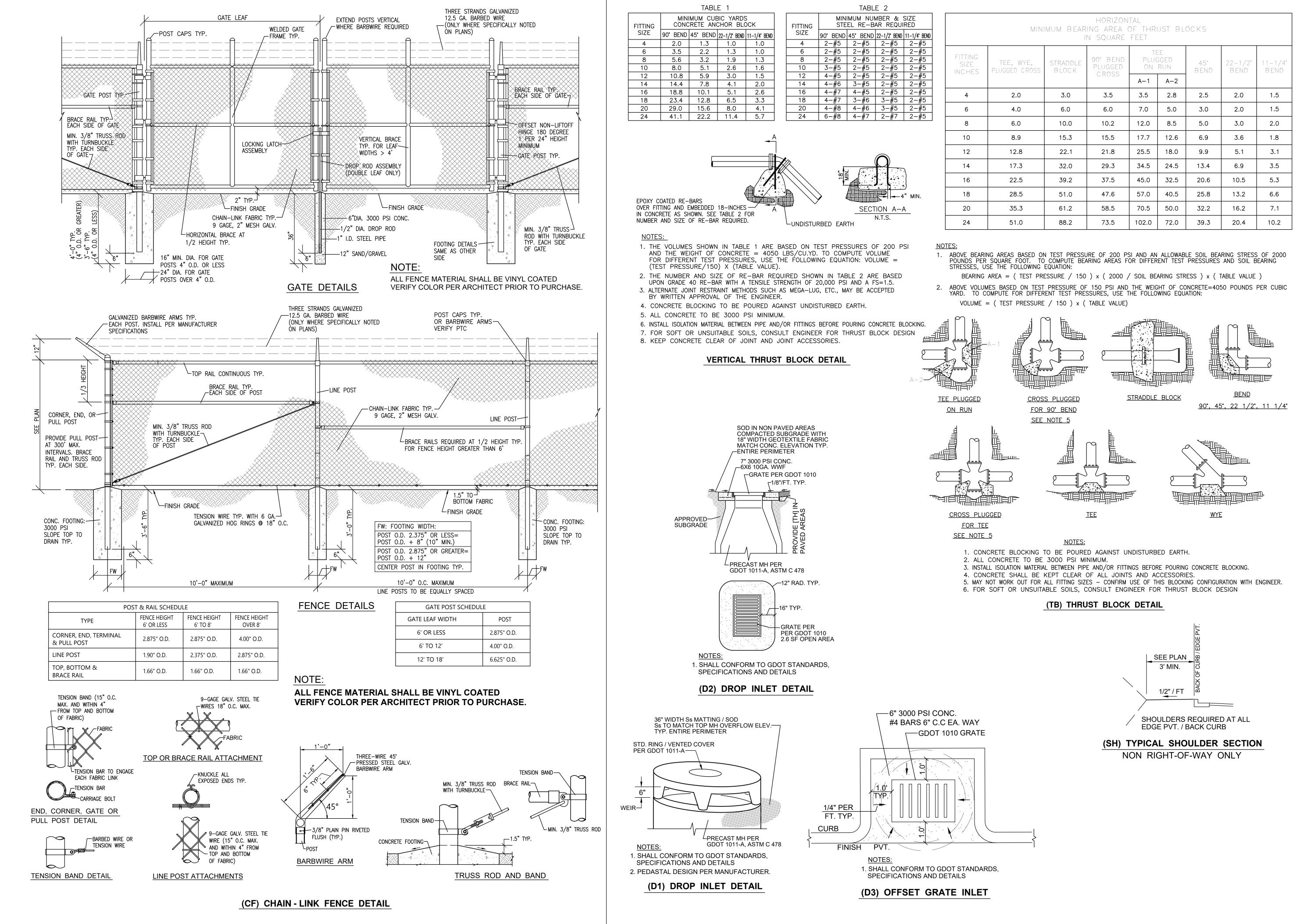


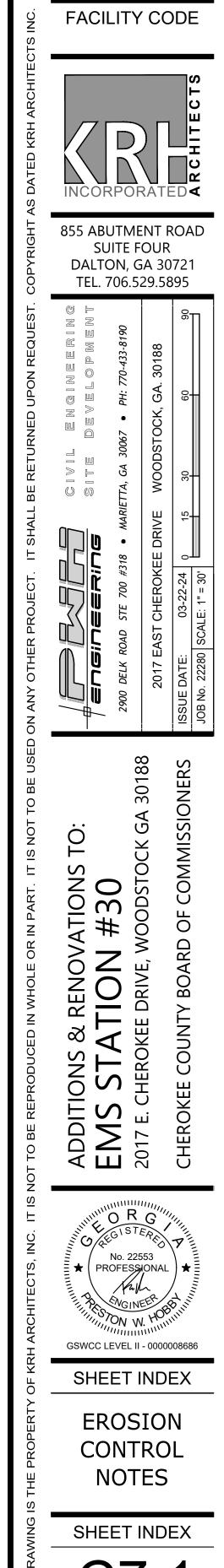


2.0' FLOW WELL—COMPACTED RIDGE OF
 #57 STONE USED TO DIRECT RUNOFF
 SEE PLAN EXISTING GRADE -(Di) DIVERSION









PROJECT NUMBER

23-017

DATE

09/25/23

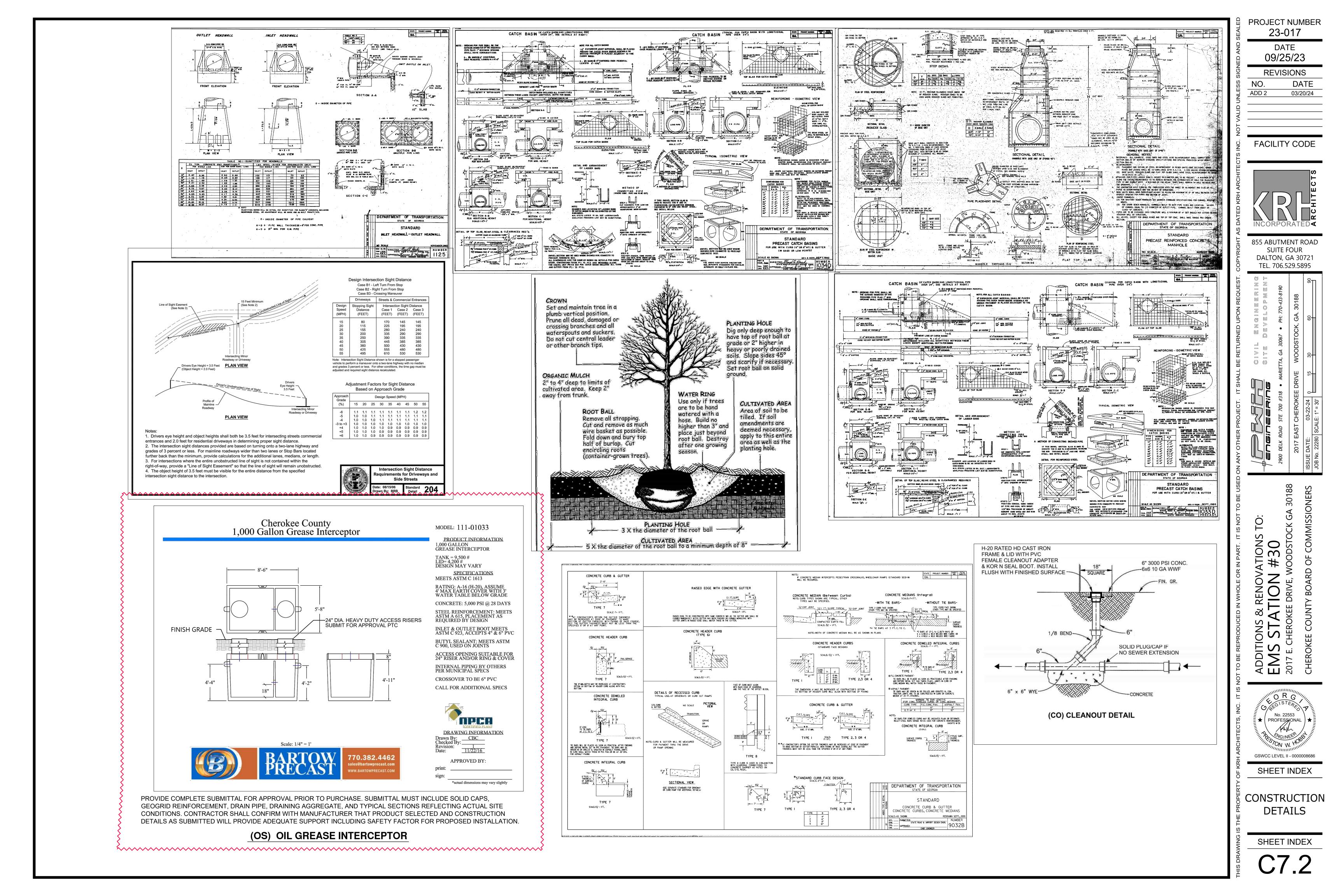
REVISIONS

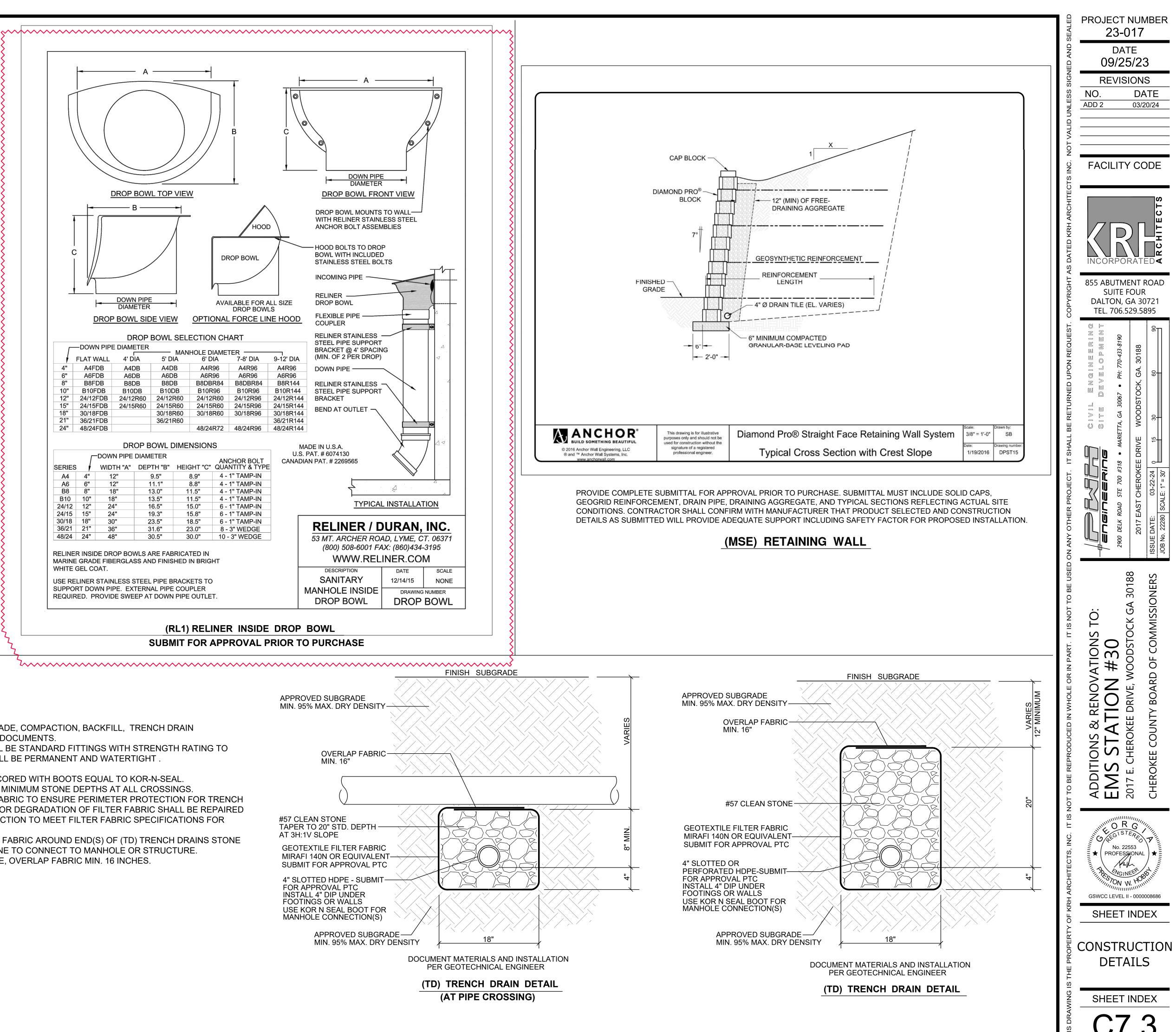
DATE

03/20/24

NO.

ADD 2





(TD) TRENCH DRAIN NOTES:

- 1. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 2. GEOTECHNICAL ENGINEER SHALL DOCUMENT AND APPROVE ALL SUBGRADE, COMPACTION, BACKFILL, TRENCH DRAIN MATERIALS AND INSTALLATION FOR FULL COMPLIANCE WITH CONTRACT DOCUMENTS.
- ALL CONNECTIONS AND FITTINGS TO PVC PIPES AND STRUCTURES SHALL BE STANDARD FITTINGS WITH STRENGTH RATING TO MATCH THE PVC SPECIFICATIONS. ALL CONNECTIONS AND FITTINGS SHALL BE PERMANENT AND WATERTIGHT.
 SUBMIT ALL MATERIALS FOR ADDROVAL PRIOR TO CONSTRUCTION (PTC).
- SUBMIT ALL MATERIALS FOR APPROVAL PRIOR TO CONSTRUCTION (PTC).
 ALL CONNECTIONS INTO MANHOLES OR OTHER STRUCTURES SHALL BE CORED WITH BOOTS EQUAL TO KOR-N-SEAL.
- ALL CONNECTIONS INTO MARTICLES OR OTHER STRUCTORES SHALL BE CORED WITH BOOTS EQUAL TO ROR-N-SEAL.
 TAPER TRENCH DRAIN STONE AT PIPE CROSSINGS AS SHOWN, MAINTAIN MINIMUM STONE DEPTHS AT ALL CROSSINGS. DOCUMENT EACH CROSSING, CAREFULLY WRAP AND MAINTAIN FILTER FABRIC TO ENSURE PERIMETER PROTECTION FOR TRENCH DRAIN (TD) ENTIRE PERIMETER. ANY HOLES, TEARS, OR OTHER DAMAGE OR DEGRADATION OF FILTER FABRIC SHALL BE REPAIRED PER MANUFACTURERS SPECIFICATIONS TO PROVIDE FILTER FABRIC FUNCTION TO MEET FILTER FABRIC SPECIFICATIONS FOR UNDAMAGED FABRIC.
- 7. EXTEND STONE TO 24" FROM MANHOLES OR STRUCTURES, WRAP FILTER FABRIC AROUND END(S) OF (TD) TRENCH DRAINS STONE AT MANHOLES OR STRUCTURES. EXTEND SOLID PIPE FROM END OF STONE TO CONNECT TO MANHOLE OR STRUCTURE. PROVIDE 100% FILTER FABRIC COVERAGE FOR ALL TRENCH DRAIN STONE, OVERLAP FABRIC MIN. 16 INCHES.

New Project Requirements & Maintena

This is a list of <u>some</u> of the requirements that need to be met be County.

service. Some of which are:

• A pre-construction meeting with water and/or sew

begins. (770) 479-9107
Contractor must have approved plans stamped by C.4
There are certain fees, depending on type of proje

Plan Review Fee

Water \$600.0 Sewer \$850.0 Combined Water & Sew

Lift Station \$10,0 Easement Fee \$200.00 (required per par

Water Flow Test \$

(Fees must be paid before flow test can be ordered

(FEES ARE SUBJECT 1

Water Meter Deposit - If meter is larger than 2" meter must have a 479-1813 All fees paid before tapping.

Sewer Tap Fee - Contact: Special Projects Coordinator (770) 479-1

Back-Flow Device - When testable device is required we also mus meter. Contact: Back-Flow Coordinator (770) 479-9107

As-Builts - Four (4) sets of As-Built Plans & Electronic Data (On Department for all projects. Contact: Plan Review Coordinator (770

Maintenance Bond Notification - The owner/developer of this project letter of credit posted for this project. The bond shall be for a period the Cherokee County Water & Sewerage Authority. The As-Builts v Inspection or a Clean Out approval be issued until maintenance bo

All sanitary sewer manholes in streets shall be required to be @ Compaction tests shall be at all 4' lifts on 2 sides of each manho shall be faxed to C.C.W.S.A. Inspection Department (770) 704-0 shall be placed on sub-grade.

- Any and all final tests on water and sewer, and all fee meters.
- Maintenance Bonds must be posted.
- Once job is released, owner/developer will be response
 Project will not be released for meter sales until C.C.V recorded final plat along with a PDF file.
- At end of one year a re-inspection will be done.
- If water has to be cut off, work needs to be scheduled
 CANNOT ENCROACH ON ANY BUFFERS, OWNER RESPONSIBLE FOR OBTAING VARIANCES. (Must

Signature__

CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY POTABLE WATER SYSTEM GENERAL CONSTRUCTION NOTES:

1.) All potable water system construction must follow the current Cherokee County Water & Sewerage Authority Water Main Standards.

2.) All water mains shall be ductile iron pipe, except where the Construction Manager approves otherwise. Ductile iron pipe shall be thickness Class 50 or Class 350, designed in accordance with AWWA C150 and manufactured in accordance with AWWA C151. All ductile iron pipe shall have an outside bituminous coating per AWWA C151 and an inside standard cement lining with bituminous seal coat per AWWA C104. All references to AWWA standards shall mean latest revisions published.

3.) Inside of developments with curb and gutter, the Contractor shall cut a "V" into the top of the curb for all water valves (line valves and hydrant valves) with the point of the "V" aimed at the valve.

4.) A concrete valve marker is to be placed directly above the plug on all dead-end water mains.

5.) Information regarding underground utilities on these plans is not guaranteed as to accuracy or completeness. Prior to beginning work, the Contractor shall request a field location through the utilities protection center and any utility owners thought to have facilities in the area. The Contractor shall promptly compare these field-marked locations with the project plans and then notify the Designer of any anticipated problems or need for contract changes. It is the Contractor's responsibility to excavate or cause the utility owner to excavate for the purpose of determining exact elevations or locations at utility crossings and other critical locations well in advance of the work under this contract. Damage to existing utilities resulting from the Contractor's negligence shall be repaired at the Contractor's expense.

6.) All service lines under pavement shall be encased in Schedule 40 PVC casing with a minimum diameter of 2", extending a minimum of 3 feet beyond the pavement and/or sidewalk on each side of the road. 2" services shall be encased in 4" PVC casings. All water service laterals 2" and smaller shall be Type K copper tubing with compression fittings as specified in the Water Standards.

7.) Concrete thrust blocking shall be placed at all bends, tees, valves, reducers and all other fittings. Prior to blocking, fittings shall be wrapped with polyethylene film.

8.) The Developer/Contractor shall meet with the Chief Inspector at least 24 hours before beginning construction. The Contractor shall notify the Chief Inspector or his designated representative by 8:30 AM of each workday when work is scheduled unless authorized otherwise.

9.) Water mains shall be installed so that the top of the pipe is a minimum of four feet below final grade, four feet below the edge of the pavement, or four feet below the ditch paralleling the road, whichever is deepest.
25.) If an existing water main is to be paved over by a new entrance or accel/decel lanes, the water be abandoned and replaced with a new DIP water main located five feet or more behind the new curb.

10.) Contractor shall place a vertical piece of 2" PVC pipe on top of the water main at all tees, bends, fittings, elevation transitions, and every fifty feet along the length of the main for the purpose of collecting elevation data for record drawings. The top of the 2" PVC shall be capped or taped to prevent dirt and other debris from clogging the 2" pipe before the depth can be measured.
26.) New water mains installed within 80 feet of steel gas main crossings, or in any wetland areas encased in polyethylene tubing (Polywrap 8 mil).
27.) All streams and protective buffers shall be crossed in accordance with current County and Stregulations.

11.) All fittings and valves are to be mechanical joint with retainer glands unless otherwise approved. Retainer glands shall be EBAA Mega-Lug or approved equal.

12.) Type 4 bedding is required at all restrained pipe installations.

Georgia 30114 9-1813	DEVELOPER'S AGREEMENT	
ance Bond Notification (2018)		
fore obtaining water and/or sewer service in Cherokee	This agreement entered this day of, 20 by and between the Cherokee	
ver contractor and C.C.W.S.A inspector before work	County Water and Sewerage Authority (herein after referred to as "CCWSA") and (hereinafter referred to as "Developer").	
.C.W.S.A before water or sewer work begins. ect, which must be paid to C.C.W.S.A. before getting	WITNESSETH	
<u>ees:</u> 00	Whereas, Developer wishes to extend the public waste water collection infrastructure to serve its development, and;	
00 wer \$1200.00 000.00 rcel for all offsite easements)	Whereas, CCWSA has initially determined that there exists sufficient capacity in both the existing collection infrastructure and the treatment facility for the Developer's proposed development, and;	
\$400.00 red or plan review meeting scheduled)	Whereas, CCWSA authorizes the Developer to extend the public wastewater collection infrastructure consistent with CCWSA specifications at the Developers expense.	
TO CHANGE)	Now therefore, for the mutual covenants flowing each to the other, the parties hereto	
a by-pass. Contact: Special Projects Coordinator (770)	agree as follows:	
1813 All fees paid before tapping.	1. Upon execution hereof, Developer is authorized to acquire necessary and needful,	
st have test results by approved tester before setting of	construction and permanent easements in accordance with the CCWSA easement acquisition policy, incorporated herein by reference.	
State Plane Coordinates) must be submitted to G.I.S. 0) 479-1813	2. Upon CCWSA approval Developer is authorized to engineer and install appropriate	
ect understands there shall be a maintenance bond or d of twelve (12) months from the date of acceptance by will " <u>NOT</u> " be signed and released, nor will a Clean Out	wastewater collection infrastructure in accordance with the CCWSA Development Specifications, in order to extend the public wastewater collection service to Developer's property.	
ond or letter of credit has been posted.	3.	
95% compaction under the first foot of top grade. ble within a 2' diameter of the manhole. Test results 0053 or emailed to the Inspector before any G.A.B.	Developer shall obtain General Liability Insurance and statutorily required Workers Compensation Insurance from insurance companies authorized to transact business in the state of Georgia with an AM Best rating of "A" or better. The General Liability Insurance shall be no less than \$2 million per occurrence and shall list the CCWSA as	
es paid, before final plat can be signed or release of	additional insured. If required, Workers Compensation Insurance shall be statutorily required limits. The Developer shall provide certificates of applicable insurance coverage prior to taking any actions to extend the public wastewater collection service.	
nsible for one-year warranty period. W.S.A. G.I.S. Department receives-one copy of		
d 4 to 5 days ahead of time. Phone: (770) 479-9107 R/DEVELOPER & ENGINEER WILL BE t have in writing where variance was obtained)	4. The obligations for Developers to procure and maintain insurance shall not be construed to waive or restrict other obligations and it is understood that insurance in no	
Date		

13.) Contractor must show proof of insurance in the amount specified by the CCWSA.

14.) All backflow preventer devices are to be tested by a CCWSA approved tester. A list of tester from the CCWSA. Any tester not on the list is subject to approval by the CCWSA. Contact the Ba Coordinator with the CCWSA for more information.

15.) All meters, backflow preventers and double detector check valve assemblies are to be purch the CCWSA.

16.) A horizontal separation of at least 10 feet is required between existing or proposed water mail existing or proposed sanitary sewer lines.

17.) A vertical separation of at least 18 inches is required where a water main crosses an existing proposed sanitary sewer line. A full joint of water main is required to be centered at the sanitary s line crossing.

18.) No portion of this project is being constructed on or near an existing landfill, abandoned land other site used for waste disposal.

19.) Potable water and sanitary sewer structures are not allowed within a dam. Utility pipelines a must be a minimum of 30 feet outside the toe of slope of the dam.

20.) Hydrant flow tests are valid for one year and only apply to a single phase of this project.

21.) Existing County roads shall not be open cut unless permission is granted by the Cherokee Department of Public Transportation.

22.) Plan approval is valid for 12 months without beginning construction. Plans shall be subject t the process of review and approval if 12 months expire prior to the start of construction.

24.) If construction plans are stamped for a full project, and then the Developer revises the plans development in phases, no construction or field inspection will be allowed to begin until the revise phased plans are re-approved and stamped for the phased construction.

28.) Fire hydrants shall be designed to be placed within 200 feet of new entrances, in all cul-de-s every proposed intersection.

29.) New fire hydrants shall be Mueller Super Centurion 250, M&H AWWA C502 Style 129 Traffic EJ Watermaster 5CD 250. All hydrants shall be rated for 250 psi working pressure and shall be equipped with a $5\frac{1}{4}$ " valve opening, two $2\frac{1}{2}$ " hose nozzles and one $4\frac{1}{2}$ " pumper nozzle.

30.) Inside of steel casings, pipe joints shall be restrained using Fast-Grip gaskets or approved

way limits liability of the Developer or limits the liability of Developer whether or not same is covered by insurance.

The Developer further understands and agrees that any damages that the Cherokee County Water and Sewerage Authority deems to be a result of said contract work, whether made directly by the Developer, developers contractor or a subcontractor thereof, is the sole responsibility of the Developer and will be repaired, replaced, or recompensed according to specifications in place at the time of discovery.

The Developer agrees to protect, defend, indemnify, save and hold harmless CCWSA, its officials, directors, officers, employees, agents, and volunteers from and against any and all claims, demands, losses, costs, and expenses, and from and against all liability, awards, judgments, and decrees, of whatever nature for any and all damage to property of others and of the parties hereto, their officials, directors, officers, employees, agents, and volunteers, and of whatever nature for any and all injury or injuries (including death) to any person or persons including the officials, directors, agents, employees, and volunteers of the party herein, arising or in any way growing out of any of the acts or omissions whether of the Developer, the Developer's officials, director, the tier's officials, officers, employees, agents, and volunteers or of any tier of the Subcontractor, the tier's officials, officers, employees, agents, and volunteers in connection with the performance of the work under this Contract.

This hold-harmless agreement must be signed and submitted to the CCWSA's Risk Management Department prior to commencement of work.

Developer

Date

CCWSA Representative

Date

	CCWSA
rs is available ackflow	representative before a project is released and accepted.
	32.) All water meter vaults and DDCV assembly vaults are to be located off of the road right-of-way in a
hased from	permanent easement dedicated to the CCWSA. The easement shall be dimensioned to be 10 feet off
ains and	each corner of the vault. Smaller domestic use meters adjacent to a DDCV assembly can be located
	within the 10-foot spacing between the vault and the edge of the easement.
g or sewer	33.) The report stating the results of the hydrant flow test and the 24 hour pressure recording chart shall be shown within the plans for this project.
dfill, or any	34.) Horizontal locations will be referenced to Georgia State Plane Coordinate System (NAD 83 West Zone Feet.
ind structures	35.) Vertical locations will be referenced to North American Vertical Datum (NAVD 88).
	36.) Orthometric locations will be referenced to GEOID 99/03
County	37.) No landscaping or structures will be allowed inside CCWSA easements.
to beginning	38.) Contractor shall provide meter stubs.
o beginning	39.) Must show all street lights within development
CCWSA upon	40.) Must show 911 addresses for each lot or parcel
s to build the sed,	41.) Developers are required to comply with CCWSA specifications in section W314 with respect to irrigation of large landscapes.
ater main is to v back of	
as must be	
State	
sacs, and at	
ic Model. or	
equal.	

31.) All new water mains must pass leakage testing and disinfection testing witnessed by a

EALED	PROJECT I 23-0	
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T. CO	TEL. 706.5	29.5895
QUES	ENGINEERING DEVELOPMENT 67 • PH: 770-433-8190	
ON RE	NGINEERIN VELOPMER PH: 770-433-8190	. 3018
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GENERAL RENOVATION NOTES:

*ALL EXTERIOR SURFACES SHALL BE THOROUGHLY CLEANED BY THE CONTRACTOR UPON COMPLETION OF THE PROJECT.

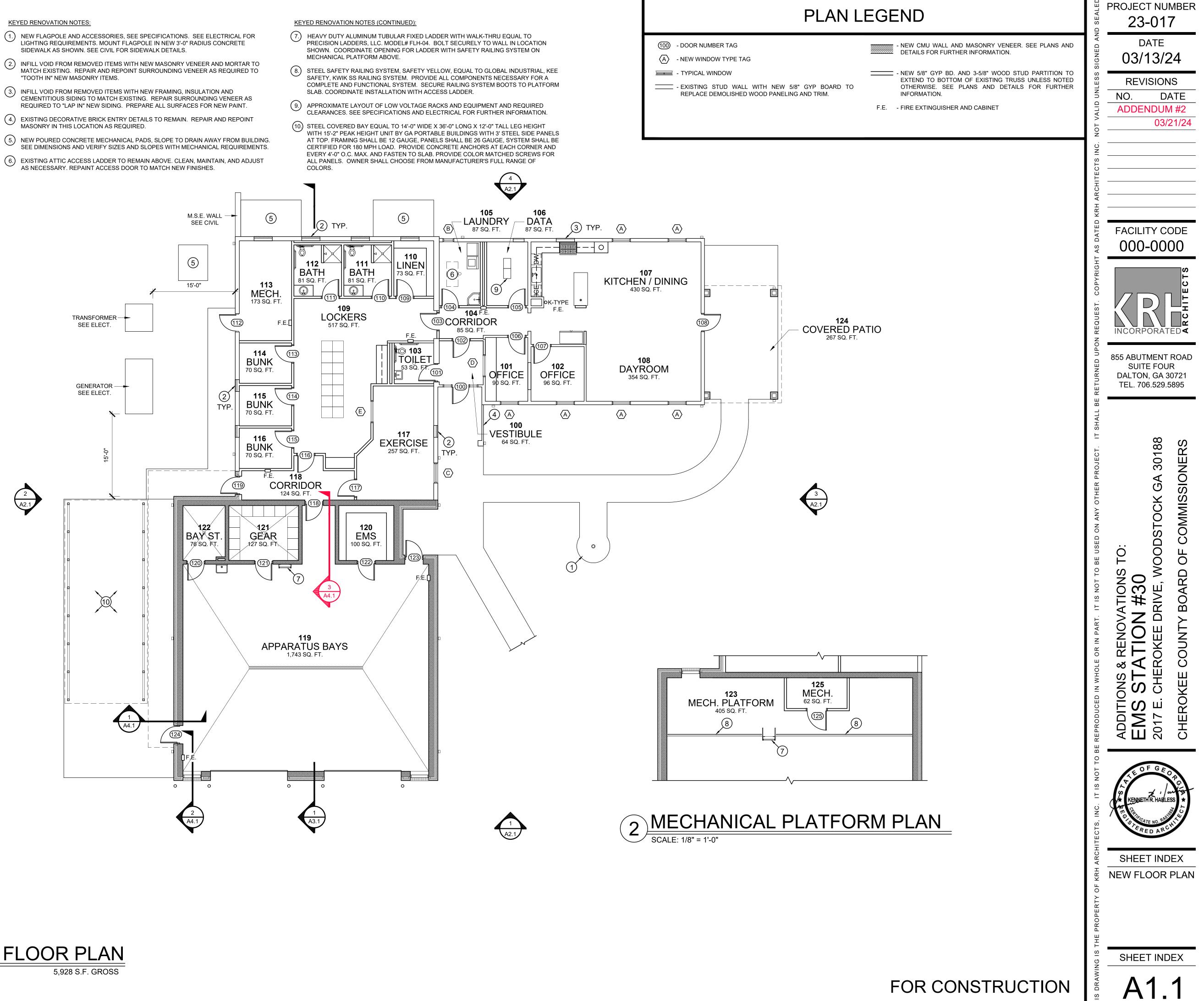
*PENETRATIONS IN THE ROOFING, CEMENTITIOUS SIDING, MASONRY VENEER, ETC. EXPOSED BY THE REMOVAL OF DEMOLISHED ITEMS SHALL BE PATCHED WITH MATERIALS TO MATCH.

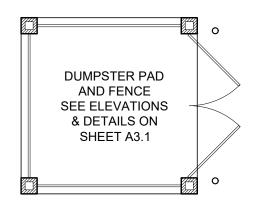
*MASONRY VENEER SHALL BE REPAIRED AT ALL AREAS NOTED PER THESE DOCUMENTS BUT CONTRACTOR SHALL ALSO ALLOW FOR FIFTY (100) SQUARE FEET OF NEW MASONRY VENEER REPAIR/INSTALLATION TO COVER ANY UNFORESEEN NEEDS.

*SEE SHEET A4.2 FOR CASEWORK ELEVATIONS AND SHEET A4.3 FOR TYPICAL CASEWORK SECTIONS.

- KEYED RENOVATION NOTES:
- LIGHTING REQUIREMENTS. MOUNT FLAGPOLE IN NEW 3'-0" RADIUS CONCRETE
- (2.) INFILL VOID FROM REMOVED ITEMS WITH NEW MASONRY VENEER AND MORTAR TO "TOOTH IN" NEW MASONRY ITEMS.

- (6.) EXISTING ATTIC ACCESS LADDER TO REMAIN ABOVE. CLEAN, MAINTAIN, AND ADJUST







		S	CHEDULE of TOILET ACCESSORIES	r
	ITEM	MFR.	HEIGHT	LOCATION
Α	42" GRAB BARS AT SIDE WALL OF WATER CLOSETS	BOBRICK B-5806-42	33" to CENTERLINE ABOVE FINISH FLOOR	PROVIDE ONE AT EVERY H.C. TOILET
В	36" GRAB BARS AT REAR WALL OF WATER CLOSETS	BOBRICK B-5806-36	33" to CENTERLINE ABOVE FINISH FLOOR	PROVIDE ONE AT EVERY H.C. TOILET
С	TISSUE PAPER DISPENSER	GP 56748 & BOBR. B-265	VARIES – COORDINATE WITH OWNER AND VERIFY WITH MANUFACTURER'S REQUIREMENTS	PROVIDE GP 56748 AT ROOM 103 PROVIDE BOBRICK B-265 AT ROOMS 111 & 112
D	SEAT COVER DISPENSER	BOBRICK B-221	INSTALL PER MANUFACTURER'S DETAILS	PROVIDE ONE AT EVERY TOILET
Е	BABY CHANGING STATION	KOALA KARE KB200	INSTALL PER MANUFACTURER'S DETAILS	PROVIDE ONE AT ROOM 101, 201, 202, 203 & 204
F	MIRROR	BOBRICK B-290-2436	40" to BOTTOM of MIRROR ABOVE FLOOR	PROVIDE ONE ABOVE EVERY LAVATORY
G	SOAP DISPENSER	GA. PACIFIC 52060	40" to BOTTOM of DISPENSER ABOVE FINISH FLOOR (VERIFY WITH MANUFACTURER'S REQUIREMENTS)	PROVIDE ONE AT EVERY SINK
Н	ROBE HOOK	BOBRICK B-6707	48" to TOP MAX. ABOVE FINISH FLOOR	PROVIDE ONE AT EVERY TOILET AND EVERY SHOWER
I	UTILITY SHELF w/ MOP HOLDERS	BOBRICK B-239 x 34	INSTALL PER MANUFACTURER'S DETAILS	PROVIDE ONE AT EVERY MOP BASIN
J	PAPER TOWEL DISPENSER	GA. PACIFIC 59466A	60" to TOP of DISPENSER ABOVE FINISH FLOOR (VERIFY WITH MANUFACTURER'S REQUIREMENTS)	PROVIDE ONE AT EVERY SINK PROVIDE GA. PACIFIC 59459 RECESS KIT AS REQ'D.
к	REVERSIBLE FOLDING SHOWER SEAT	BOBRICK B-5181	18" ABOVE FINISH FLOOR to TOP OF SEAT	PROVIDE ONE AT ROOM 105 PROVIDE BLOCKING ONLY AT ALL OTHER SHOWERS
L	TWO WALL SHOWER GRAB BAR	BOBRICK B-6861	33" to CENTERLINE ABOVE FINISH FLOOR	PROVIDE ONE AT ROOM 105 PROVIDE BLOCKING ONLY AT ALL OTHER SHOWERS
М	EXTRA HEAVY DUTY SHOWER CURTAIN ROD	BOBRICK B-6047	PROVIDE WITH BOBRICK 204 CURTAIN & HOOKS INSTALL PER MANUFACTURER'S DETAILS	PROVIDE ONE AT EVERY SHOWER
Ν	FOLDING DRESSING AREA SEAT	BOBRICK B-5193	18" ABOVE FINISH FLOOR to TOP OF SEAT	PROVIDE ONE AT EVERY SHOWER ROOM

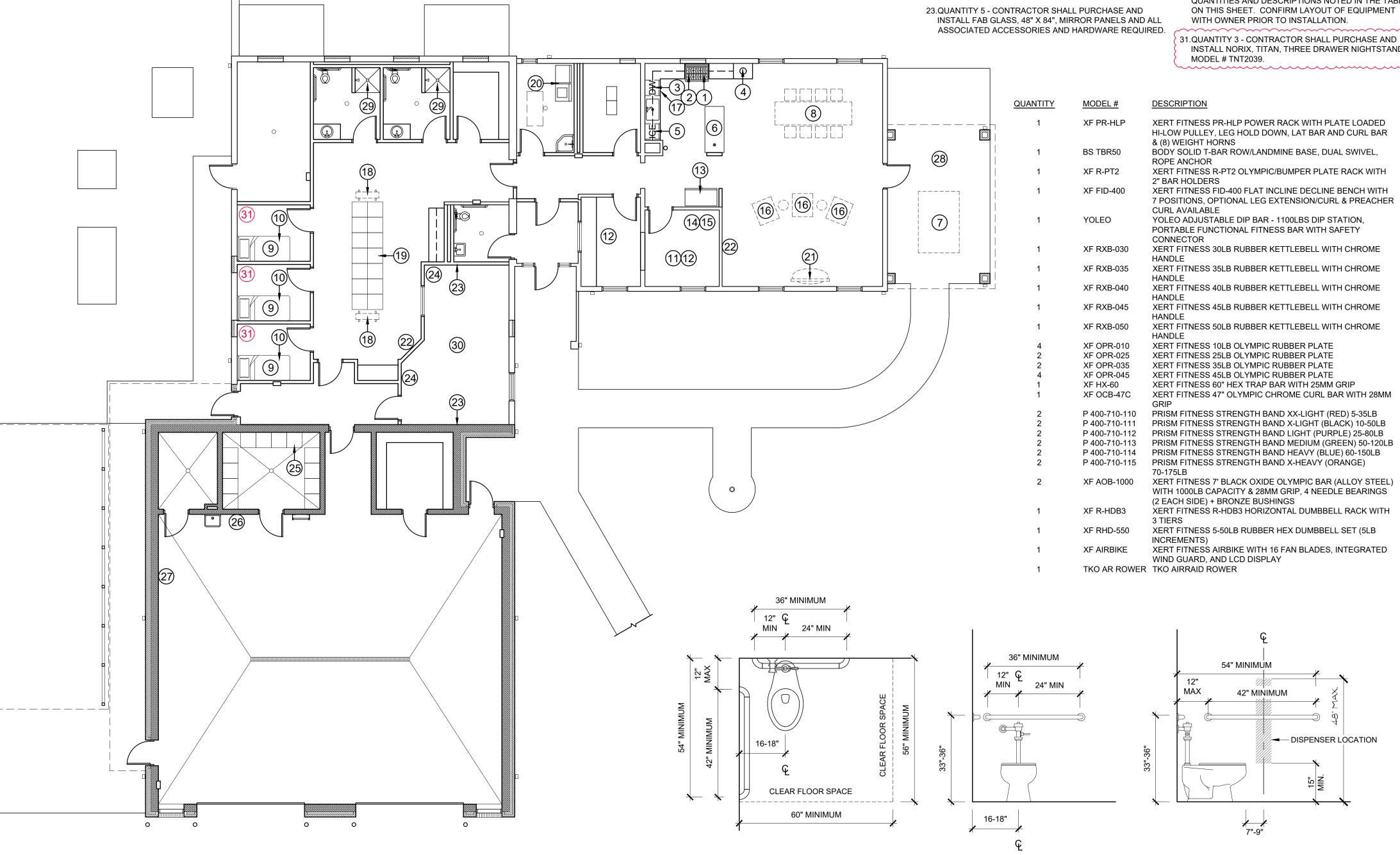
TOILET ACCESSORIES NOTES:

1. COORDINATE ALL FINAL MOUNTING HEIGHTS/LOCATIONS WITH OWNER. COMPLY WITH ALL REQUIREMENTS OF A.D.A. INSTALLATIONS GUIDELINES AND MANUFACTURER'S RECOMMENDATIONS.

2. FIELD VERIFY ALL FIXTURE QUANTITIES.

3. PROVIDE BLOCKING IN WALL FOR ALL WALL MOUNTED ITEMS.

SCALE: 1/8" = 1'-0"



EMS STATION #30 EQUIPMENT & FURNISHINGS PLAN

- . QUANTITY 1 CONTRACTOR SHALL PURCHASE AND INSTALL Z LINE, 36" WIDE WALL MOUNTED HOOD, PROFESSIONAL STAINLESS 697, WITH GUARDIAN III KITCHEN FIRE SUPPRESSION SYSTEM MODEL 1384-A. COORDINATE WITH MECHANICAL.
- 7. QUANTITY 1 CONTRACTOR SHALL PURCHASE AND 2. QUANTITY 1 - CONTRACTOR SHALL PURCHASE AND INSTALL KUCHT, 36" DUAL FUEL MODEL #KRD366F RANGE, EXPANDED STEEL, MODEL # F6420. WITH GAS CONNECTION HOSE KIT/ASSEMBLY BK RESOURCES MODEL # BKG-GHC-7548-SCK2. COORDINATE 8. QUANTITY 1 - CONTRACTOR SHALL PURCHASE AND WITH MECHANICAL, PLUMBING AND ELECTRICAL.
- 3. QUANTITY 1 CONTRACTOR SHALL PURCHASE AND INSTALL KUCHT, 24" MODEL #K6502D DISHWASHER.
- 4. QUANTITY 1 CONTRACTOR SHALL PURCHASE AND INSTALL MAGIC CHEF, 1.6 CU. FT., 1,100 WATT MODEL #HMM1611ST2 MICROWAVE.
- 5. QUANTITY 1 CONTRACTOR SHALL PURCHASE AND INSTALL SCOTSMAN, SELF-CONTAINED, NUGGET ICE MACHINE MODEL # UN324 WITH OPTIONAL FLOOR MOUNT BOARDS SHALL HAVE BLACK HARDWARE AND WILD KIT AS REQUIRED.

EQUIPMENT NOTES:

5,928 S.F. GROSS

- 1. COORDINATE ALL FINAL EQUIPMENT LOCATIONS WITH OWNER.
- 2. FIELD VERIFY ALL EQUIPMENT QUANTITIES. PROVIDE BLOCKING IN WALL FOR ALL WALL MOUNTED ITEMS.
- 4. SEVERAL ITEMS SUCH AS REFRIGERATORS, WASHERS AND DRYERS, GEAR EXTRACTOR WASHER, GEAR DRYER, BREATHING AIR SYSTEMS, TELEVISIONS, DEDICATION PLAQUES, ETC. WILL BE OWNER PROVIDED AND CONTRACTOR INSTALLED.

6. QUANTITY 1 - CONTRACTOR SHALL PURCHASE AND

HEAVY DUTY CASTERS.

SIZE.

COMMERCIAL WORK TABLE WITH UNDERSHELF & 5"

INSTALL ANOVA PICNIC TABLE, 8' RECTANGULAR,

WITH TWO BENCHES 120" L X 12" W TO MATCH BY

WOODSTOCK GA 30188, PHONE: 678-503-8758

9. QUANTITY 3 - CONTRACTOR SHALL PURCHASE AND

mmmm

TABLE TOP DAN, 100 LONDONDERRY CT, SUITE 124,

INSTALL REGENCY 30" X 72" 16 GAUGE STAINLESS STEEL

INSTALL ALDERWOOD DINING TABLE 120" L X 44" W WITH

LOGO GRAPHICS, LACQUER FINISH AND WEBSTER BASE

INSTALL INDOFF NORIX BEDS, TITAN BUNKABLE FRAME

STYLE, XL TWIN BED FRAME, MODEL # TNT1611 IN EBONY

COLOR WITH HEAD BOARDS, MODEL # TNT0600-BL1, AND

FOOT BOARDS, MODEL # TNT0650-BL1, HEAD AND FOOT

CHERRY LAMINATE COLOR SELECTIONS. EACH BED

SHALL HAVE A MATTRESS FIRM, MODEL # V000268596,

PRESSURE SMART 2.0 FIRM 11" MATTRESS, TWIN XL PRIME

EQUIPMENT & FURNISHINGS LEGEND

- 10. QUANTITY 9 CONTRACTOR SHALL PURCHASE AND INSTALL INDOFF NORIX, TITAN UNDER BED STORAGE, COMFORT SHIELD DORM, MODEL # TNT7016 (METAL).
- 11. QUANTITY 1 CONTRACTOR SHALL PURCHASE AND INSTALL INDOFF HON 30" X 66" DESK (WITH 24" X 48" LEFT HAND RETURN), MODEL #S HONH38291RNS, AND HONH38216LNS IN CHARCOAL COLOR SELECTION.
- 12. QUANTITY 2 CONTRACTOR SHALL PURCHASE AND INSTALL INDOFF HON TASK CHAIR, MODEL # HONH5715.SB11.T.
- 13. QUANTITY 1 CONTRACTOR SHALL PURCHASE AND INSTALL KUCHT, 36" WIDE MODEL #K748FDS REFRIGERATOR WITH ICE MAKER.
- 14. QUANTITY 1 CONTRACTOR SHALL PURCHASE AND INSTALL INDOFF 36" ROUND CONFERENCE TABLE, MODEL # XT36RD.
- 15. QUANTITY 2 CONTRACTOR SHALL PURCHASE AND INSTALL INDOFF SLED BASE GUEST CHAIR WITH BLACK FRAME, MODEL # 540BLK.
- 16. QUANTITY 3 CONTRACTOR SHALL PURCHASE AND INSTALL WOODSTOCK OUTLET, HOME STRETCH, MODEL 20.QUANTITY 1 - CONTRACTOR SHALL PURCHASE AND #186-91-14 ROCKER RECLINERS.
- 17. QUANTITY 1 CONTRACTOR SHALL PURCHASE AND INSTALL BUNN, MODEL #VP17-2 COFFEE MAKER.

FOR CONSTRUCTION A1.5

2 A.D.A. INSTALLATION GUIDELINES

	1	XF PR-HLP	XERT FILNESS PR-H
			HI-LOW PULLEY, LEC
			& (8) WEIGHT HORN
	1	BS TBR50	BODY SOLID T-BAR I
(28)			ROPE ANCHOR
	1	XF R-PT2	XERT FITNESS R-PT
			2" BAR HOLDERS
·	1	XF FID-400	XERT FITNESS FID-4
			7 POSITIONS, OPTIC
			CURL AVAILABLE
(7)	1	YOLEO	YOLEO ADJUSTABLE
			PORTABLE FUNCTIC
i lı			CONNECTOR
	1	XF RXB-030	XERT FITNESS 30LB
			HANDLE
	1	XF RXB-035	XERT FITNESS 35LB
			HANDLE
	1	XF RXB-040	XERT FITNESS 40LB
			HANDLE
	1	XF RXB-045	XERT FITNESS 45LB
			HANDLE
	1	XF RXB-050	XERT FITNESS 50LB
	•		HANDLE
	4	XF OPR-010	XERT FITNESS 10LB
	2	XF OPR-025	XERT FITNESS 25LB
	2	XF OPR-035	XERT FITNESS 35LB
	4	XF OPR-045	XERT FITNESS 45LB
	1	XF HX-60	XERT FITNESS 60" H
	1	XF OCB-47C	XERT FITNESS 47" C
	I	XI 00D-470	GRIP
	2	P 400-710-110	PRISM FITNESS STR
	2	P 400-710-111	PRISM FITNESS STR
	2	P 400-710-112	PRISM FITNESS STR
	2	P 400-710-112 P 400-710-113	PRISM FITNESS STR
	2	P 400-710-113 P 400-710-114	PRISM FITNESS STR
	2	P 400-710-115	PRISM FITNESS STR
	0		70-175LB
	2	XF AOB-1000	XERT FITNESS 7' BL
			WITH 1000LB CAPAC
			(2 EACH SIDE) + BRC
	1	XF R-HDB3	XERT FITNESS R-HD
			3 TIERS
	1	XF RHD-550	XERT FITNESS 5-50L
			INCREMENTS)
	1	XF AIRBIKE	XERT FITNESS AIRB
			WIND GUARD, AND L
	1	TKO AR ROWER	TKO AIRRAID ROWE

			31.Q
	QUANTITY	MODEL #	DESCRIPTIC
	1	XF PR-HLP	XERT FITNE HI-LOW PUL & (8) WEIGH
	1	BS TBR50	BODY SOLI
	1	XF R-PT2	XERT FITNE 2" BAR HOL
 	1	XF FID-400	XERT FITNE 7 POSITION CURL AVAIL
	1	YOLEO	YOLEO ADJ PORTABLE CONNECTO
	1	XF RXB-030	XERT FITNE
	1	XF RXB-035	XERT FITNE HANDLE
	1	XF RXB-040	XERT FITNE HANDLE
	1	XF RXB-045	XERT FITNE HANDLE
	1	XF RXB-050	XERT FITNE HANDLE
	4	XF OPR-010	XERT FITNE
	2	XF OPR-025	XERT FITNE
	2	XF OPR-035	XERT FITNE
	4	XF OPR-045	XERT FITNE
	1	XF HX-60	XERT FITNE
	1	XF OCB-47C	XERT FITNE GRIP
	2	P 400-710-110	PRISM FITN
	2	P 400-710-111	PRISM FITN
	2	P 400-710-112	PRISM FITN
	2	P 400-710-113	PRISM FITN
	2	P 400-710-114	PRISM FITN
	2	P 400-710-115	PRISM FITN 70-175LB
	2	XF AOB-1000	XERT FITNE WITH 1000L

APPROPRIATELY SIZED WALL MOUNT.

18. QUANTITY 14 - CONTRACTOR SHALL PURCHASE AND

PROVIDE 16GA. BOXED FINISHED END PANELS AT

FULL WIDTH INTERIOR DRAWER BELOW, PROVIDE

TOTAL LOCKER DIMENSIONS 3/4" ON ALL SIDES.

NON-SKID KIT MODEL # 68420.

19. QUANTITY 2 - CONTRACTOR SHALL PURCHASE AND

LOCKERS, 24"X24"X72", 16GA. BODIES WITH 18GA. BACKS,

EXPOSED ENDS AND CONTINUOUS SLOPING HOODS FOR

ALL, INTERIOR COMPONENTS SHALL INCLUDE HAT SHELF,

OFF CENTER PARTITION (45"), 15" COAT ROD AND COAT

HOOKS, 9" WIDE SECURITY BOX UNDER HAT SHELF, ONE

LOCKERS WITH THE FOLLOWING ACCESSORIES: CELL

PHONE/KEY TRAY, MIRROR AND NAME CARD HOLDERS OWNER SHALL MAKE COLOR SELECTIONS FROM

MANUFACTURER'S FULL RANGE. INSTALL LOCKERS ON

WOOD FRAMED BASE OF 2X4'S AT EVERY 16" O.C. MAX

INSTALL PENCO WOOD BENCH WITH STAINLESS STEEL

PEDESTALS, 36" WOOD TOP MODEL # 9611, STAINLESS

WITH 5/8" PLYWOOD TOP. FRAMING SHALL BE INSET FROM

STEEL PEDESTALS AND HARDWARE MODEL # 60827H WITH

INSTALL SPEED QUEEN, MODEL #TC5 TOP LOAD WASHER

WITH SPEED QUEEN CLASSIC CLEAN AND MODEL #DC5

SANITIZING ELECTRIC DRYER WITH EXTENDED TUMBLE.

INSTALL SAMSUNG, 75" CLASS TU690T TELEVISION AND

INSTALL SAMSUNG, 73" CLASS CU7000 TELEVISION AND

21.QUANTITY 1 - CONTRACTOR SHALL PURCHASE AND

22.QUANTITY 2 - CONTRACTOR SHALL PURCHASE AND

APPROPRIATELY SIZED WALL MOUNT.

ADDITIONAL 9" SHELF, FULL WIDTH BOTTOM SHELF AND

14 GA DOUBLE DOORS WITH STANDARD LOUVERS AND

HEAVY DUTY, LATCHING, LOCKABLE CREMONE HANDLE,

INSTALL PENCO PATRIOT FULLY FRAME WELDED

24.QUANTITY 2 - CONTRACTOR SHALL PURCHASE AND I NSTALL GLOBAL INDUSTRIAL, 24" OSCILLATING WALL MOUNT FAN, 3 SPEED, 7525 CFM, 1/4 HP, ITEM # WB607050.

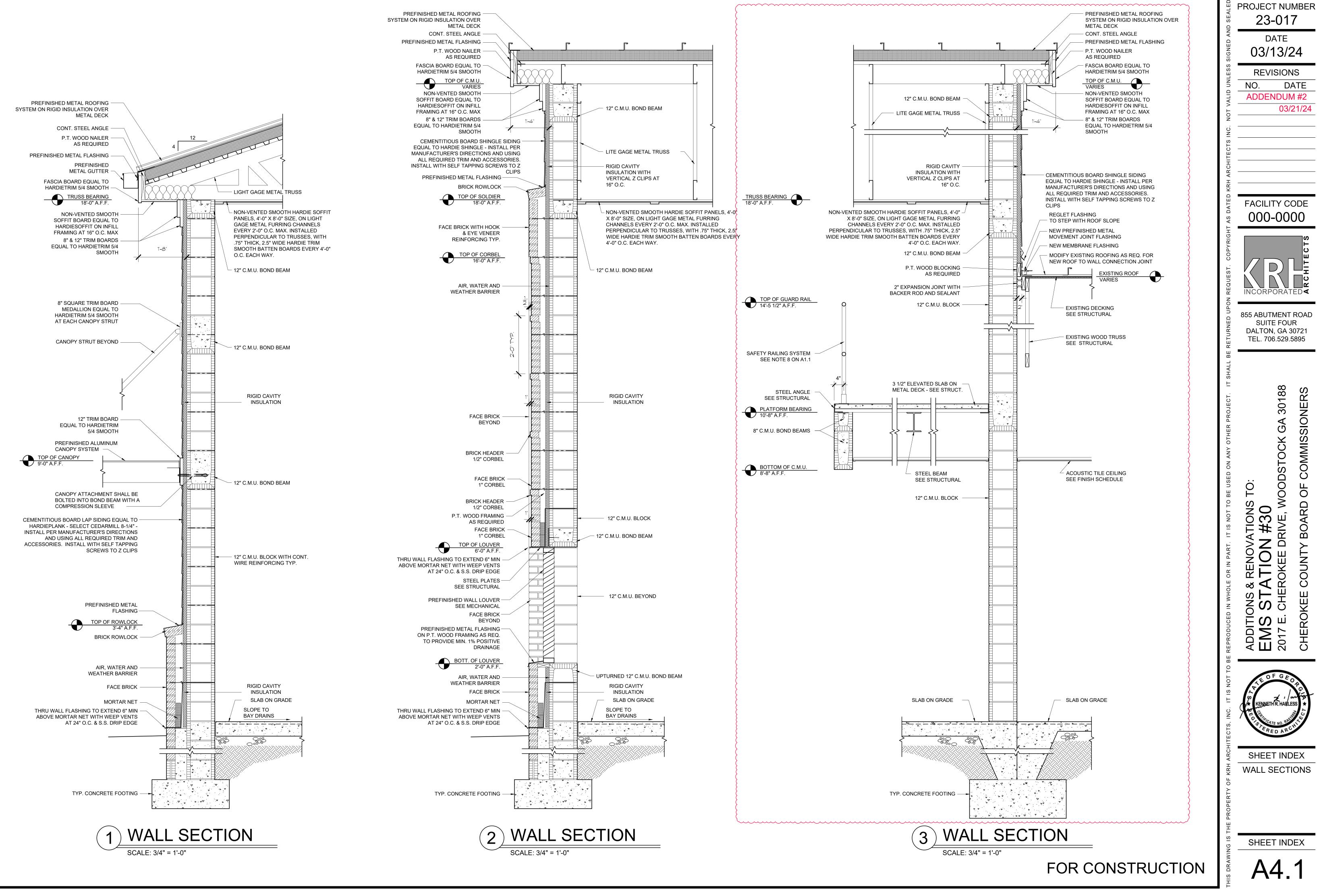
25.QUANTITY 12 - CONTRACTOR SHALL PURCHASE AND INSTALL GROVES INC. READY RACK, WALL MOUNTED RED RACK GEAR LOCKERS, 24"W X 20"D X 72"H PER COMPARTMENT, ALL UNITS SHALL BE COMPLETE WITH STANDARD OPTIONS INCLUDING: ADJUSTABLE BOOT SHELF, ADJUSTABLE HELMET SHELF, HANGING POLE THE LENGTH OF THE UNIT, TWO APPEAL HOOKS PER LOCKER AND ONE NAME PLATE PER LOCKER.

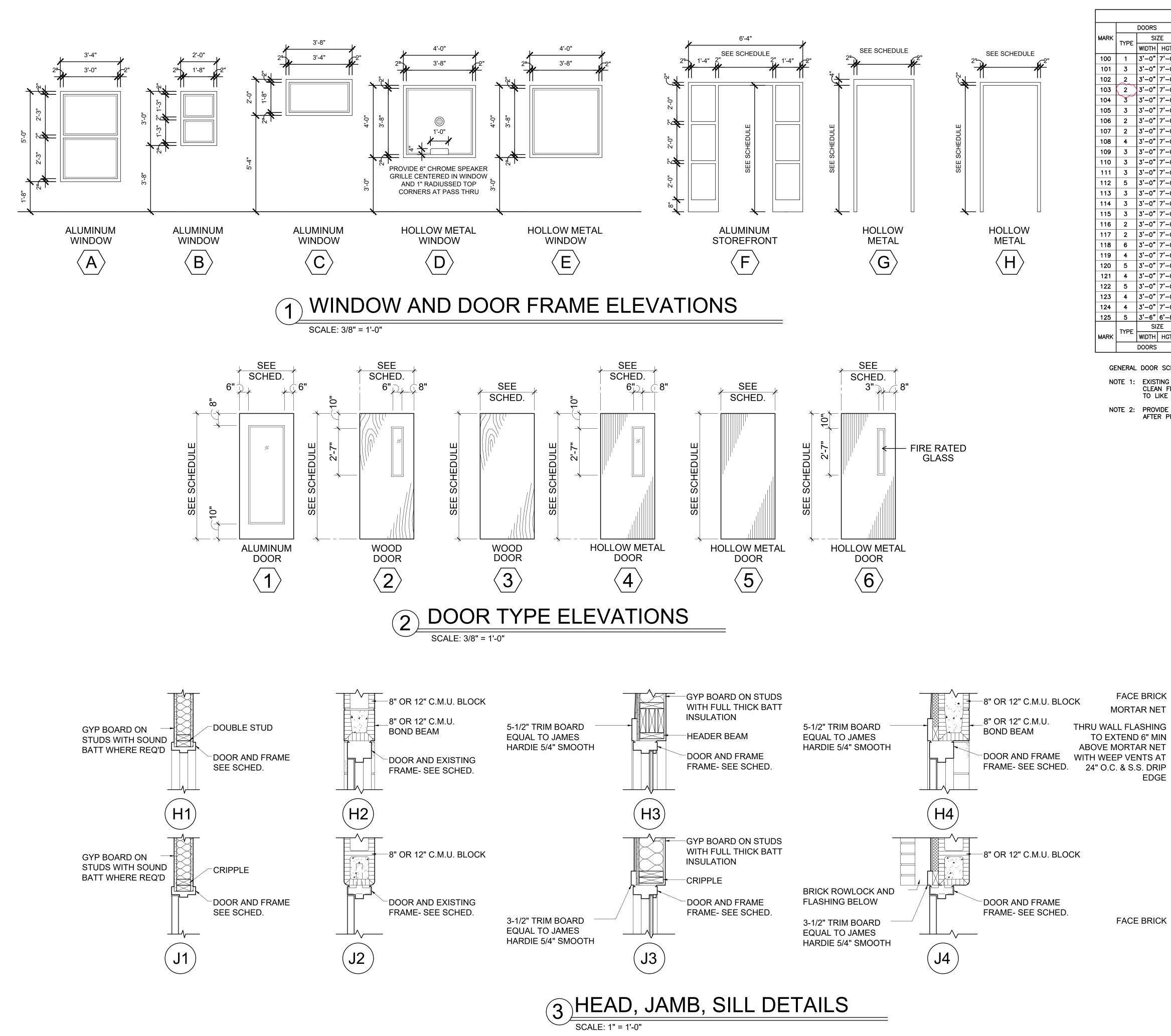
- 26.QUANTITY 1 CONTRACTOR SHALL PURCHASE AND INSTALL READY RACK, WALL RACK ORGANIZER MODE # WRO, FIELD LOCATE MOUNTING LOCATION WITH OWNER PRIOR TO INSTALLATION.
- 27. QUANTITY 1 CONTRACTOR SHALL PURCHASE AND INSTALL SEVILLE, CLASSICS ULTRA GRAPHITE WOOD TOP WORKBENCH ON WHEELS WITH SLIDING ORGANIZER DRAWER TABLE, 48" LONG, SATIN GRAPHITE COLOR SELECTION.
- 28.QUANTITY 3 CONTRACTOR SHALL PURCHASE AND INSTALL FURNITURE MADE IN THE USA, PLANTATION LUMBAR ROCKER TC-#970, GERANIUM RED, ROCKING CHAIRS.
- 29. QUANTITY 2 CONTRACTOR SHALL PURCHASE AND INSTALL ACORN ENGINEERING PRODUCTS, 36" X 36" II TERRAZZO ADA SHOWER BASE, MODEL # SBADA-36-3F

30.CONTRACTOR SHALL PURCHASE AND INSTALL EXERCISE EQUIPMENT FROM PREMIER FITNESS SOURCE AT 109 SMOKEHILL LANE, SUITE 100, WOODSTOCK GA 30188, PHONE: 770-908-0000, IN THE QUANTITIES AND DESCRIPTIONS NOTED IN THE TABLE ON THIS SHEET. CONFIRM LAYOUT OF EQUIPMENT

QUANTITY 3 - CONTRACTOR SHALL PURCHASE AND INSTALL NORIX, TITAN, THREE DRAWER NIGHTSTAND

ARCHITECTS INC. NOT VALID UNLESS SIGNED AND SEALED.	PROJECT NUMBER 23-017 DATE 03/13/24 REVISIONS NO. DATE ADDENDUM #2 03/21/24
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INC. IT IS NOT TO BE REPRODUCED IN WHOLE OR IN PART. IT IS NOT TO BE USED ON ANY OTHER PROJECT. IT SHALL F	ADDITIONS & RENOVATIONS TO: EMS STATION #30 2017 E. CHEROKEE DRIVE, WOODSTOCK GA 30188 CHEROKEE COUNTY BOARD OF COMMISSIONERS
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					SCHED	ULE of	DOC	DRS an	d FRAI	MES	
		DOORS			FRA	MES				MISC.	
<		SI	ZE			DETAILS		FIRE	HDWE.	DEMARKS	MARK
	TYPE	WIDTH	HGT.	TYPE	HEAD	JAMB	SILL	RATING	SET NO.	REMARKS	
	1	3'-0"	7'-0"	F	H3	J3	-		AL-01	CARD ACCESS	100
	3	3'-0"	7'-0"	н	H1	J1	-		01		101
	2	3'-0"	7'-0"	н	H1	J1	-		02		102
	2	3'-0"	7'-0"	Н	H1	J1	-		02		103
	3	3'-0"	7'-0"	Н	H1	J1	-		03		104
	3	3'-0"	7'-0"	н	H1	J1	-		04	CARD ACCESS	105
	2	3'-0"	7'-0"	Н	H1	J1	-		05		106
	2	3'-0"	7'-0"	Н	H1	J1	-		05		107
	4	3'-0"	7'-0"	н	H3 SIM.	J3 SIM.	-		06	CARD ACCESS	108
	3	3'-0"	7'-0"	Н	H1	J1	-		07		109
	3	3'-0"	7'-0"	Н	H1	J1	-		01		110
	3	3'-0"	7'-0"	H	H1	J1	-		01		111
	5	3'-0"	7'-0"	EX.	H5 SIM.	J5 SIM.	-		08	NEW DOOR IN EXISTING FRAME	112
	3	3'-0"	7'-0"	н	H1	J1	-		09		113
	3	3'-0"	7'-0"	н	H1	J1	-		09		114
	3	3'-0"	7'-0"	н	H1	J1	-		09		115
	2	3'-0"	7'-0"	н	H1	J1	-		02		116
	2	3'-0"	7'-0"	н	H1	J1	-		10		117
	6	3'-0"	7'-0"	G	H2	J2	-	90 MIN	11		118
	4	3'-0"	7'-0"	G	H5	J5	-		12		119
	5	3'-0"	7'-0"	G	H2	J2	-		13		120
	4	3'-0"	7'-0"	G	H2	J2	-		14		121
	5	3'-0"	7'-0"	G	H2	J2	-		15	CARD ACCESS	122
	4	3'-0"	7'-0"	G	H4	J4	-		06	CARD ACCESS	123
	4	3'-0"	7'-0"	G	H4	J4	-		12		124
	5	3'-6"	6'-8"	Н	H1 SIM.	J1 SIM.	-				125
	TYPE	SI	ZE	TYPE	HEAD	JAMB	SILL	FIRE	HDWE.	REMARKS	
<	IIFE	WIDTH	HGT.			DETAILS		RATING	SET NO.		MARK
		DOORS			FRA	MES				MISC.	

GENERAL DOOR SCHEDULE NOTES:

NOTE 1: EXISTING FRAMES TO REMAIN SHALL BE INSPECTED FOR PROPER FUNCTION AND FINISH. CLEAN FRAMES TO REMAIN AND REPAIR AS NECESSARY. REFINISH AND REPAINT FRAMES TO LIKE NEW CONDITION.

NOTE 2: PROVIDE CONSTRUCTION CORES AT ALL DOORS. OWNER WILL PROVIDE FINAL CORES AFTER PROJECT COMPLETION.

FACE BRICK MORTAR NET

TO EXTEND 6" MIN ABOVE MORTAR NET WITH WEEP VENTS AT 24" O.C. & S.S. DRIP EDGE

FACE BRICK

-GYP BOARD ON STUDS WITH FULL THICK BATT INSULATION

-HEADER BEAM

DOOR AND FRAME FRAME- SEE SCHED.

-GYP BOARD ON STUDS WITH FULL THICK BATT INSULATION

CRIPPLE

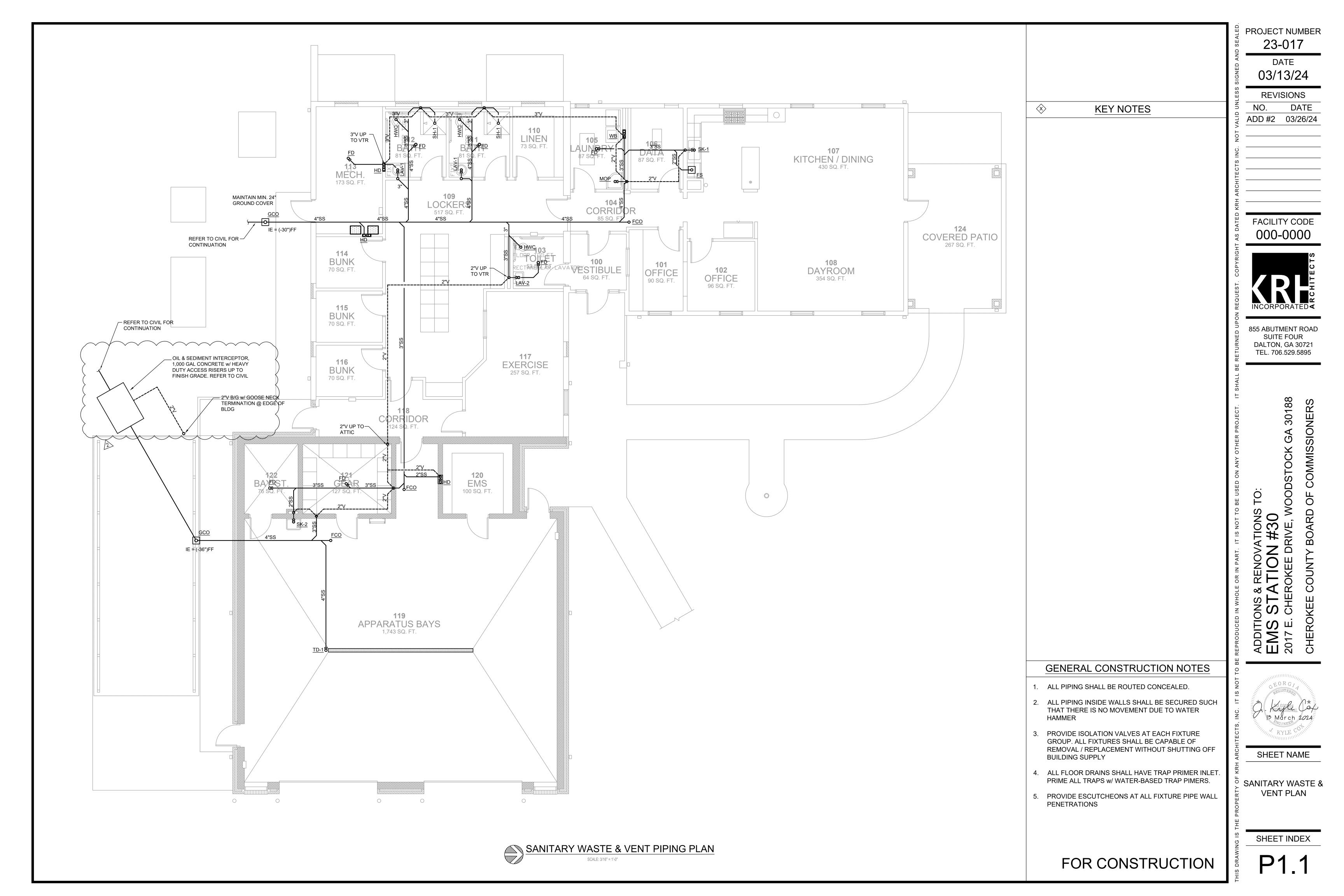
(H5)

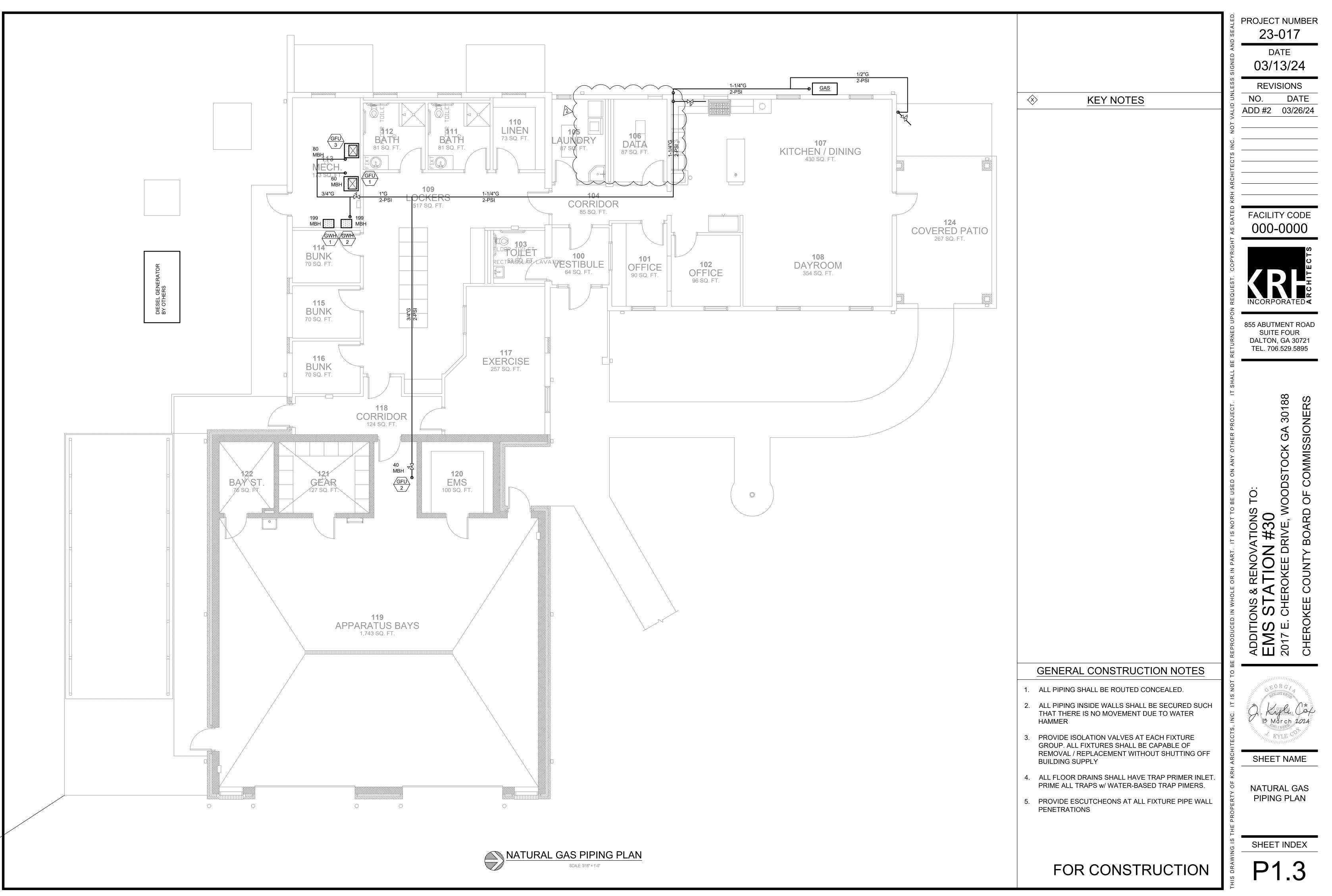
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DOOR AND FRAME FRAME- SEE SCHED.

FOR CONSTRUCTION

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IC. IT IS NOT TO BE REPRODUCED IN WHOLE OR IN PART. IT IS NOT TO BE USED ON ANY OTHER PROJECT. IT SHALL BE R	ADDITIONS & RENOVATIONS TO: EMS STATION #30 2017 E. CHEROKEE DRIVE, WOODSTOCK GA 30188 CHEROKEE COUNTY BOARD OF COMMISSIONERS
DF KRH ARCHITECTS, INC. IT IS NOT TO B	SHEET INDEX DOOR & WINDOW FRAME
THIS DRAWING IS THE PROPERTY OF KRH ARCHITECTS, IN	ELEVATIONS, SCHEDULE & DETAILS SHEET INDEX A5.1





REPORT OF ENVIRONMENTAL SERVICES



2017 East Cherokee Drive Woodstock, Cherokee County, Georgia

PREPARED FOR: Cherokee County Board of Commissioners

2355 Cumberland Parkway SE Atlanta, Georgia 30339

NOVA Project Number: 10102-3023022

March 9, 2023





March 9, 2023

Cherokee County Board of Commissioners 1130 Bluffs Parkway Canton, Georgia 30114

- Attention: Mr. Jud Martin Cherokee County Capital Projects Project Manager
- Subject: Report of Environmental Services 2017 East Cherokee Drive Woodstock, Cherokee County, Georgia NOVA Project Number 10102-3023022

Mr. Martin:

NOVA Engineering and Environmental, LLC (NOVA) has completed the Environmental Services for 2017 East Cherokee Drive located in Woodstock, Cherokee County, Georgia. We appreciate your selection of NOVA and for the opportunity to be of service on this project. Please feel free to contact us if you have any questions or if we may be of further assistance.

Sincerely, NOVA Engineering and Environmental, LLC

Curtis Moses

Staff Professional Environmental Services AHERA No. 18965

Nickolaus DaSantos Business Unit Manager Environmental Services AHERA No. 19051

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- APPENDIX C PERSONNEL QUALIFICATIONS
- APPENDIX D QUALIFICATIONS OF CONCLUSIONS

1.0 SUMMARY

NOVA Engineering and Environmental, LLC. (NOVA) has completed the Environmental Services for 2017 East Cherokee Drive located in Woodstock, Cherokee County, Georgia (Subject Property).

A brief summary of our findings is presented below. This summary is provided for convenience and should not be substituted for review of the full report, including all attachments as provided herein.

1.1 ASBESTOS CONTAINING MATERIAL

During this study, thirty-three (33) samples (containing 33 total layers) of joint compound, wallboard, ceiling texture, glue, floor sheeting, vapor barrier, mastic, Thermal System Insulation (TSI), caulking, grout, and mortar were analyzed by NOVA using Polarized Light Microscopy (PLM) with no analyzed samples indicating Asbestos Containing Material (ACM). A sample location plan is included in Appendix A of this Report.

No Asbestos Containing Material was identified during NOVA's on-site sampling program. A complete list of suspected ACM samples obtained is shown in the laboratory report (included in Appendix B).

1.2 RADON

Cherokee County in Georgia has been designated as Zone two (2) by the EPA. NOVA performed site specific sampling for the Subject Property to determine actual levels within the facility.

Results of the sample kits are summarized below (samples are listed in the order of received laboratory data):

TEST KIT ID #	LIQUID SCINTILLATION (CANISTER) ID #	TEST/LOCATION	RADON CONCENTRATION (pCi/L)
298024	527934	Sanctuary	0.5
298024	527074	Sanctuary	0.5
298025	527057	Dining	0.2
298025	527979	Dining	0.5



1.3 FUNGI

A total of six (6) air-particle samples were collected by NOVA and subsequently analyzed by EMSL Analytical, Inc. with the following findings:

- Fungi spores identified from the air-particle sample readings on the interior of the Subject Property include Ascospores, Aspergillus/Penicillium, Basidiospores, Cercospora, Cladosporium, Eppicoccum, Myxomycetes, and Torula.
- Fungi spores identified from the air-particle sample readings on the exterior of the Subject Property include Ascospores, Basidiospores, Cladosporium, and Myxomycetes.
- Fungi spores identified from the air-particle sample readings on the interior of the Subject Property that were not identified on the exterior of the Subject Property include Aspergillus/Penicillium, Cercospora, Eppicoccum, and Torula.

Currently there are no set clearance levels regarding fungi. Professional inspectors frequently compare the types and levels of fungal organisms detected from the interior of a space to the exterior of a space, as a way of interpreting microbiological results. The qualitative diversity of airborne fungi outdoors should be similar to that measured indoors in the absence of fungi contamination.

Based on the results of the laboratory analytical data obtained during the Limited Fungi Air Quality Assessment sampling program identifying low levels of fungi on the interior of the Subject Property that were not identified on the exterior of the Subject Property, it is NOVA's recommendation that the facility should be cleaned at this time and best housekeeping and cleaning practices should be utilized moving forward in an effort to prevent possible future settled fungi growth and/or accumulation. NOVA also recommends that air filters located throughout the Subject Property should be changed at this time per the manufacturer's recommended specifications.

Please note that the services provided by NOVA were a limited assessment of current conditions at specific locations identified by the Client during NOVA's site visit. It is possible that fungi may be present at additional locations that may not become apparent until encountered by renovation and/or demolition activities. In addition, fungi conditions can change with time and may be different in the future. This variability in conditions is an inherent owner-assumed risk in fungi assessments.



2.0 INTRODUCTION

2.1 DESCRIPTION OF SUBJECT PROPERTY

The Subject Property is identified as 2017 East Cherokee Drive located in Woodstock, Cherokee County, Georgia (Subject Property). Specifically, the Environmental Services for the Subject Property include a Pre-Renovation Asbestos Containing Material (ACM) Survey, Radon in Air Sampling, and Fungi Air Quality Assessment.

The Subject Property includes an approximately 5,000 square foot single story structure that was most recently utilized as a church. According to the Cherokee County Geographic Information System (GIS) database, the Subject Property is located on approximately 3.968-acres of land, and it contains one (1) tax parcel identified by Parcel ID 15N16 118.

2.2 PURPOSE

As requested by Cherokee County Board of Commissioners (CLIENT), the Pre-Renovation Asbestos Containing Material (ACM) Survey, Radon in Air Sampling, and Limited Fungi Air Quality Assessment was performed in an effort to identify Asbestos-Containing Material (ACM), radon, and Hazardous Building Material at the Subject Property. This work has been performed in general accordance with applicable state and federal regulations, and routine industry practice.

ACM sampling was performed in general accordance with the Asbestos Hazard Emergency Response Act (AHERA) guidelines and ASTM E2356-18,"*Standard Practice for Comprehensive Building Asbestos Survey*" as a Baseline Survey. Deviations from the Baseline Survey protocols include:

• Determination of ACM quantities were excluded from the scope of work.

2.3 LIMITATIONS

NOVA has performed the Pre-Renovation Asbestos Containing Material (ACM) Survey, Radon in Air Sampling, and Limited Fungi Air Quality Assessment which is a <u>limited</u> inquiry into a property's environmental status and is not sufficient to discover every potential source of ACM, radon, or fungi associated with the property to be evaluated. No survey/sampling can wholly eliminate uncertainty regarding the potential for ACM, Radon, or fungi in connection with a property.



Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for ACM, radon, and fungi in connection with a property. The level of inquiry is variable. Not every property will warrant the same level of assessment for ACM, radon, and fungi.

Consistent with good commercial or customary practices, the appropriate level of assessment will be guided by the type of property subject to assessment, the intended use of the property, the expertise and risk tolerance of the CLIENT, and the information developed in the course of the assessment.

NOVA's findings, opinions, conclusions and recommendations are based on information obtained through visual assessment of surficial conditions in readily accessible areas. It is possible that additional ACM, radon, or fungi exist or may subsequently become known that may impact or change the assessment after NOVA's services are complete.

NOVA's assessment represents our professional opinion, only. Therefore, NOVA cannot, under any circumstances, make a statement of warranty or guarantee, expressed or implied, that ACM, radon, and fungi are limited to those that are discovered while we are performing the sampling.

2.4 USER RELIANCE

NOVA's Pre-Renovation Asbestos Containing Material Survey, Radon in Air Sampling, and Limited Fungi Air Quality Assessment, along with the findings and conclusions contained in the report, either in completed form, summary form, or by extraction, is prepared, and intended, for the sole use of Cherokee County Board of Commissioners (CLIENT) and therefore may not contain sufficient information for other purposes or parties. The CLIENT is the only intended beneficiary of this report. The contents of NOVA's report will continue to be the property of NOVA. NOVA's report may not be disclosed to, used by, or relied upon by, any person or entity other than the CLIENT without the express written consent of NOVA.

Authorization for disclosure to a third party or authorization for third-party reliance on a final report of any report will be considered by NOVA upon the written request of the CLIENT. NOVA reserves the right to deny authorization to allow disclosure or reliance of NOVA's report to third parties.



3.0 ASBESTOS CONTAINING MATERIAL

3.1 FIELD AND LABORATORY SERVICES

Mr. Curtis Moses, NOVA professional, and federal and state certified asbestos inspector, performed the field work for the Pre-Renovation Asbestos Containing Material Survey at the Subject Property.

3.1.1 ASBESTOS CONTAINING MATERIAL SAMPLING

The building area was visually assessed by NOVA to identify suspect ACM, which were then grouped into three categories according to their intended use:

- **Surfacing Material** such as sprayed-on or troweled fireproofing, acoustical and decorative insulation, textured "popcorn" finishes, paint, stucco, etc.
- **Thermal System Insulation** (TSI), such as pipe, boiler and storage tank insulation, and insulation on ducts, pumps, heat exchangers, and other equipment.
- **Miscellaneous Material**, such as floor and ceiling tiles, wallboard, asbestos-cement board, siding and other building material that did not fall into one of the previously mentioned categories.

Where applicable, material with similar texture, color and general appearance were considered homogeneous for sampling purposes, including visually similar material on different floors. NOVA's assessment also included touching representative samples to determine friability, a mechanical classification defined as whether a material can be crumbled, pulverized, or reduced to powder by hand pressure.

Bulk samples were subsequently obtained in general accordance with the AHERA (40 CFR 763.86, Sampling) and ASTM E2356-18 procedures. The samples were placed in appropriate containers, and the containers sealed and labeled with a unique identification number. The samples were subsequently transported (following routine industry practices and chain-of-custody procedures) to EMSL Analytical, LLC (EMSL) for analysis.

The ACM samples were analyzed for asbestos using Polarized Light Microscopy (PLM) methods in accordance with EPA Method 600/R-93/116. Copies of the complete asbestos laboratory report and chain-of custody are included in Appendix B.

Using the results of the laboratory analysis and NOVA's visual assessment, the asbestos containing building material can be further categorized into three groups:



- Friable ACM Material means any material containing more than one percent (1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR part 763 Section 1, Polarized Light Microscopy, that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure.
- Category I Nonfriable ACM Asbestos-containing packing, gaskets, resilient floor covering, and asphalt roofing products containing more than one percent (1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR part 763, Section 1, Polarized Light Microscopy.
- Category II Nonfriable ACM Any material, excluding Category I Nonfriable ACM, containing more than one percent (1%) asbestos as determined using the methods specified in Appendix A, Subpart F, 40 CFR part 763, Section 1, Polarized Light Microscopy that, when dry, *cannot* be crumbled, pulverized, or reduced to powder by hand pressure.

During this study, thirty-three (33) samples (containing 33 total layers) of joint compound, wallboard, ceiling texture, glue, floor sheeting, vapor barrier, mastic, Thermal System Insulation (TSI), caulking, grout, and mortar were analyzed by NOVA using Polarized Light Microscopy (PLM) with no analyzed samples indicating Asbestos Containing Material (ACM). A sample location plan is included in Appendix A of this Report.

No Asbestos Containing Material was identified during NOVA's on-site sampling program. A complete list of suspected ACM samples obtained is shown in the laboratory report (included in Appendix B).



4.0 RADON

The Indoor Radon Abatement Act of 1988 directed the Environmental Protection Agency (EPA) to develop a screening map for extrapolating radon potential at the county level. The EPA Radon Potential Map assigns a geologic provincial potential to each county that predicts the average radon screening level. The Map predictions are not to be used as absolutes, but as a targeting tool for radon. EPA defines radon potential using zone one (1) through zone three (3). Zone one (1), the highest radon potential, is defined as having an average indoor radon level greater than 4.0 Picocuries per liter (pCi/L).

Zone two (2) is defined as having a potential average indoor radon level greater than or equal to 2.0 pCi/L, but less than or equal to 4.0 pCi/L. Zone three (3), the lowest radon potential, is defined as having an average indoor radon concentration less than 2.0 pCi/L. The concentration level of less than 4.0 pCi/L has been established as the acceptable level which radon gas can exist without presenting a significant health risk as determined by the EPA.

Cherokee County in Georgia has been designated as Zone two (2) by the EPA. NOVA performed site specific sampling for the Subject Property to determine actual levels within the facility.

LIQUID SCINTILLATION (CANISTER) ID #	TEST/LOCATION	RADON CONCENTRATION (pCi/L)
527934	Sanctuary	0.5
	SCINTILLATION (CANISTER) ID #	SCINTILLATION TEST/LOCATION (CANISTER) ID #

Sanctuary

Dining

Dining

527074

527057

527979

Results of the sample kits are summarized below (samples are listed in the order of received laboratory data):

FINDINGS AND RECOMMENDATIONS

The laboratory analytical results for the samples collected from the ground level of the project site were below the EPA recommended threshold of 4.0 pCi/L in each of the two (2) sample test kits analyzed.

It is NOVA's opinion that based on the EPA's guidelines for radon levels to be below 4.0 pCi/L and the results of this Radon sampling program, it is NOVA opinion that no further assessment of the radon levels within the Subject Property is needed at this time.



298024

298025

298025

0.5

0.2

0.5

5.0 FUNGI

5.1 FIELD AND LABORATORY SERVICES

Mr. Curtis Moses, a NOVA professional, performed the field work for the Limited Fungi Air Quality Assessment for the Subject Property.

Six (6) air-particle samples collected at the Subject Property were placed in the appropriate containers, and the containers were sealed and labeled with a unique identification number. The samples were subsequently transported (following routine industry practices and chain-of-custody procedures) to EMSL Analytical, LLC (EMSL) for analysis.

The air-particle samples were analyzed for fungi spores using analysis of fungal spores and particulates by optical microscopy (Methods MICRO-SOP-201, ASTM D7391). Copies of the complete laboratory reports and chain-of custodies are included in Appendix B of this report.

5.2 FUNGI IDENTIFIED AT THE SUBJECT PROPERTY

A total of six (6) air-particle samples were collected by NOVA and subsequently analyzed by EMSL Analytical, Inc. with the following findings:

- Fungi spores identified from the air-particle sample readings on the interior of the Subject Property include Ascospores, Aspergillus/Penicillium, Basidiospores, Cercospora, Cladosporium, Eppicoccum, Myxomycetes, and Torula.
- Fungi spores identified from the air-particle sample readings on the exterior of the Subject Property include Ascospores, Basidiospores, Cladosporium, and Myxomycetes.
- Fungi spores identified from the air-particle sample readings on the interior of the Subject Property that were not identified on the exterior of the Subject Property include Aspergillus/Penicillium, Cercospora, Eppicoccum, and Torula.

5.3 DISCUSSION

Six (6) total air-particle samples were obtained by NOVA and subsequently analyzed by EMSL Analytical, Inc. with the following interior and exterior sample findings:

Ascospores: Ascospores belong to members of the Phylum Ascomycota, which encompasses a plethora of genera worldwide. Forcible ejection or passive release is commonly disseminated by wind or insects.



Aspergillus: Aspergillus spp. in indoor air is often higher than outdoors at any given time. The amount of spores in the air is significantly increased when cleaning is carried out mechanically, for example, when carpets are vacuum cleaned. Species of Aspergillus have been isolated from damp walls, wallpaper, PVC/paper wall covering, gypsum board, floor, carpet and mattress dust, upholstered-furniture dust, acrylic paint, UFFI, leather, HVAC insulations, filters and fans, humidifier water, shoes, leather, bird droppings, potted plant soil, plastic, and decomposing plant matter.

Basidiospores: Basidiospores belong to the members of the Phylum Basidiomycota, which includes mushrooms, shelf fungi, rusts, and smuts. Natural Habitat includes Forest floors, lawns, and plants (saprobes or pathogens depending on genus).

Cercospora: Cercosporas natural habitat occurs as a parasite on higher plants, commonly causing leaf spot diseases. Mode of dissemination is irrigation water, insects, and rain wind. Potential for opportunistic pathogens unknown.

Cladosporium: An exceedingly common organism, found on dead herbaceous and woody plants, textiles, rubber, paper, and foodstuffs of all kinds. Indoors, it is found in floor, carpet, and mattress dust, damp acrylic painted walls, wallpaper, HVAC insulation, filters and fans. Cladosporium is very common on wet building material (e.g., gypsum board, acrylic painted walls, wood, wallpaper, carpet and mattress dust, HVAC fans, and wet insulation in mechanical cooling units). It is a condition for production of Stachybotrys toxins. Surfaces exposed to air with a relative humidity above 55% and subjected to temperature fluctuations are ideal for toxin production.

Epicoccum: Contaminant. Opportunistic pathogen. Found in soil, air, water, and rotting vegetation. It is commonly associated with skin allergies.

Myxomycetes: Commonly found on decaying logs, stumps and dead leaves (particularly in forested regions). These organisms have both dry and wet spores. Wind disperses the dry fruiting body spores, whereas the wet amoebic phase is motile. Type I allergies (hay fever, asthma). Occasionally found indoors. They are occasionally seen and identified on tape lifts. Distinctive especially when fragments of the lacy fruiting

Penicillium: Penicillium species are very common fungi. About 200 species have been described. They are commonly called the blue or green fungi because they produce large quantities of greenish, bluish or yellowish spores which give them their characteristic colors. Spores of Penicillium are found in the air and soil. Most Penicillium species are active producers of toxins. Penicillium chrysogenum is the most common Penicillium species in indoor environments. It is widespread and has a wide range of habitats. In indoor environments, it is extremely common on damp building materials, walls and wallpaper, floor, carpet mattress, and upholstered furniture dust.



Torula: Found in leaves, plant roots, plant litter, soil and wood. Type I allergies (hay fever, asthma). Some species cause stains in hardwoods.

5.4 RECOMMENDATIONS AND CONCLUSIONS

Currently there are no set clearance levels regarding fungi. Professional inspectors frequently compare the types and levels of fungal organisms detected from the interior of a space to the exterior of a space, as a way of interpreting microbiological results. The qualitative diversity of airborne fungi outdoors should be similar to that measured indoors in the absence of fungi contamination.

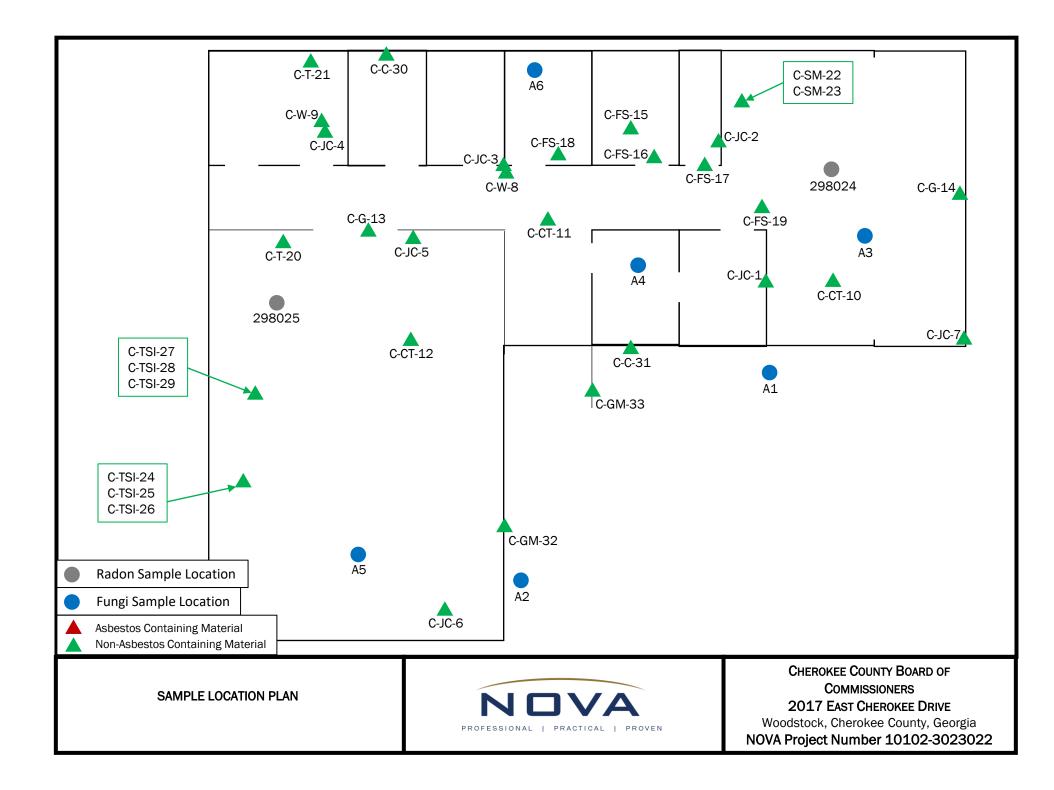
Based on the results of the laboratory analytical data obtained during the Limited Fungi Air Quality Assessment sampling program identifying low levels of fungi on the interior of the Subject Property that were not identified on the exterior of the Subject Property, it is NOVA's recommendation that the facility should be cleaned at this time and best housekeeping and cleaning practices should be utilized moving forward in an effort to prevent possible future settled fungi growth and/or accumulation. NOVA also recommends that air filters located throughout the Subject Property should be changed at this time per the manufacturer's recommended specifications.

Please note that the services provided by NOVA were a limited assessment of current conditions at specific locations identified by the Client during NOVA's site visit. It is possible that fungi may be present at additional locations that may not become apparent until encountered by renovation and/or demolition activities. In addition, fungi conditions can change with time and may be different in the future. This variability in conditions is an inherent owner-assumed risk in fungi assessments.



APPENDIX A

SAMPLE LOCATION PLAN



APPENDIX B

LABORATORY ANALYTICAL DATA



Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-A	sbestos	Asbestos	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type	
C-JC-1	Joint Compound- Kitchen	White Non-Fibrous		100% Non-fibrous (Other)	None Detected	
072301724-0001		Homogeneous				
C-JC-2	Joint Compound- Electrical	White Non-Fibrous		100% Non-fibrous (Other)	None Detected	
072301724-0002		Homogeneous				
C-JC-3	Joint Compound- Office	White Non-Fibrous		100% Non-fibrous (Other)	None Detected	
072301724-0003		Homogeneous				
C-JC-4	Joint Compound- Meeting	White Non-Fibrous		100% Non-fibrous (Other)	None Detected	
072301724-0004		Homogeneous				
C-JC-5	Joint Compound- Sanctuary	White Non-Fibrous		100% Non-fibrous (Other)	None Detected	
072301724-0005		Homogeneous				
C-JC-6	Joint Compound- Sanctuary	White Non-Fibrous		100% Non-fibrous (Other)	None Detected	
072301724-0006		Homogeneous				
C-JC-7	Joint Compound- Dining	White Non-Fibrous		100% Non-fibrous (Other)	None Detected	
072301724-0007		Homogeneous				
C-W-8	Wallboard- Office	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected	
072301724-0008		Homogeneous				
C-W-9	Wallboard- Meeting	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected	
072301724-0009		Homogeneous				
C-CT-10	Ceiling Texture- Dining	White Non-Fibrous		100% Non-fibrous (Other)	None Detected	
072301724-0010		Homogeneous				
C-CT-11	Ceiling Texture- Hall	White Non-Fibrous		100% Non-fibrous (Other)	None Detected	
072301724-0011		Homogeneous				
C-CT-12	Ceiling Texture- Sanctuary	White Non-Fibrous		100% Non-fibrous (Other)	None Detected	
072301724-0012		Homogeneous				
C-G-13	Carpet Glue- Sanctuary	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected	
072301724-0013		Homogeneous				
C-G-14	Carpet Glue- Dining	Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected	
072301724-0014		Homogeneous				
C-FS-15	Floor Sheeting- Pink/ Tan- Ladies RR	Tan Non-Fibrous		100% Non-fibrous (Other)	None Detected	
072301724-0015		Homogeneous				
C-FS-16	Floor Sheeting- Pink/ Tan- Ladies RR	Tan Non-Fibrous		100% Non-fibrous (Other)	None Detected	
072301724-0016		Homogeneous				



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Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbe	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
C-FS-17 072301724-0017	Floor Sheeting- Black/Tan- HVAC Closet	Various Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
C-FS-18	Floor Sheeting- Black/Tan- Mens RR	Various Non-Fibrous		100% Non-fibrous (Other)	None Detected
072301724-0018		Homogeneous			
C-FS-19	Floor Sheeting- Black/Tan- Dining	Various Non-Fibrous		100% Non-fibrous (Other)	None Detected
072301724-0019	 	Homogeneous	000/ 0 # 1		
C-T-20 072301724-0020	Tar Paper- Below Subfloor	Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
	Tar Danar, Balaw	Homogeneous	20% Callulana	200/ Non fibraus (Other)	None Detected
C-T-21 072301724-0021	Tar Paper- Below Subfloor	Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
	Sink Mastic- Kitchen	Homogeneous White		100% Non-fibrous (Other)	None Detected
C-SM-22 072301724-0022		Non-Fibrous Homogeneous			None Delected
C-SM-23	Sink Mastic- Kitchen	White		100% Non-fibrous (Other)	None Detected
		Non-Fibrous			
072301724-0023		Homogeneous			
C-TSI-24	TSI-Tape-Crawlspace Ducts	Silver/Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
072301724-0024		Homogeneous			
C-TSI-25	TSI-Tape-Crawlspace Ducts	Silver/Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
072301724-0025		Homogeneous			
C-TSI-26	TSI-Tape-Crawlspace Ducts	Silver/Yellow Non-Fibrous		100% Non-fibrous (Other)	None Detected
072301724-0026		Homogeneous	222/ 21		
C-TSI-27	TSI-Ins-Crawlspace Ducts	Brown/Silver Fibrous	60% Glass	40% Non-fibrous (Other)	None Detected
072301724-0027	TSI Ins Crowlenges	Homogeneous Brown/Silver	60% Glass	40% Non fibrous (Other)	None Detected
C-TSI-28	TSI-Ins-Crawlspace Ducts	Brown/Silver Fibrous	00% Glass	40% Non-fibrous (Other)	NOTE Detected
072301724-0028		Homogeneous			
C-TSI-29	TSI-Ins-Crawlspace Ducts	Brown/Silver Fibrous	60% Glass	40% Non-fibrous (Other)	None Detected
072301724-0029		Homogeneous			
C-C-30	Caulking- Rear Frame	Clear Non-Fibrous		100% Non-fibrous (Other)	None Detected
072301724-0030		Homogeneous			
C-C-31	Caulking- Front Frame	Clear Non-Fibrous		100% Non-fibrous (Other)	None Detected
072301724-0031	0 101 5 55	Homogeneous			
C-GM-32	Grout/Mortar- Side Face	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
072301724-0032	Crout/Martan Caluma	Homogeneous		100% Non fibrows (Other)	None Detector
C-GM-33 072301724-0033	Grout/Mortar- Column	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected



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 EMSL Order:
 072301724

 Customer ID:
 NOVA30

 Customer PO:
 2017

 Project ID:

Analyst(s)

Kyle Rich (4) Violedah Richardson (29)

Nioledah Melissa Richardson

Violedah Richardson, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc Smyrna, GA NVLAP Lab Code 101048-1

Initial report from: 02/24/2023 11:49:17

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Customer ID: 1/0	1/120		If Bill⊨ forsth Billing ID		ort-10 leave this s	ection blank. Third	-party billing require	s written authoriza
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NIOSH 7400		AHERA 40 CF	нк, Part 763		=	Microvac - ASTN Wipe - ASTM D6		
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PLM EPA 600/R-93/1					=	Qualitative via P Qualitative via D		
PLM EPA NOB (<1%)			TEM - Bulk					
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$ \begin{array}{c} \left 400 (< 0.25\%) \\ POINT COUNT w/ GI \\ 400 (< 0.25\%) \\ 1400 (< 0.25\%) \\ NIOSH 9002 (< 1\%) \\ 181 (Fnable - I \\ NYS 198.6 NOB (Nor \\ NYS 198.6 NOB (Nor \\ NYS 198.8 (Vermiculi \\ 0 \\ 181 \\ 182 \\ 183 \\$	RAVIMETRIC 1,000 (<0 1%) NY) Friable - NY) te SM-V) rly Identified Homogen S So; A † Way Special Instructio	$\square NYS NOB 198 \square TEM EPA 600 Other "Please can neous Areas (HA) ample Location / Description Compound = --$	8.4 (Non-Friable-NY D/R-93/116 w Milling r Test (please spec ()////////////////////////////////////	Prep (0.1%) ify) ecific requirement re Size (Air : Volume, Condition Upon iby:	Area or Homog	PLM EPA 600/R TEM EPA 600/R TEM Qualitative TEM Qualitative	-93/116 with milli -93/116 with milli -93/116 with milli via Filtration Prey via Drop Mount F 0.45um Date / Tiu (Air Moni 	ng prep (<0 25%) ng prep (<0.1%) ng prep (<0 1%) ? ?rep me Sampled

OrderID: 072301724

Asbestos Chain of Custody (Air, Bulk, Soil) EMSL Order Number / Lab Use Only

EMSL Analytical, Inc. 2205 Corporate Plaza Pkwy SE Suite 200 Smyrna, GA 30080 PHONE: (770) 956-9150 EMAIL: atlantalab@emsl.com

EMSL ANALYTICAL, INC. TESTING LASS · PRODUCTS · TRAINING

EMS

Additional Pages of the Chain of Custo	dy are only necessary if needed for additional sample information Special Instructions and/or Regulatory Requirements (Sample Sp	ecifications. Processing Methods, Limits of Detection, etc.)	
Sample Number	Sample Location / Description	Volume, Area or Homogeneous Area	Date / Time Sampled (Air Monitoring Only)
C-W-9	V - Meeting		
(- (7-10	Ceiling Texture - 1	Dining	
C-C711		Hall	
C-Cr 12	V - S	anctuary	
E-6-13	Carper Glue - Sanctu	úry I	
C-6-14	- dining	/	
C-FS-15	Floor Sheeting - Pin.	WTAN-Ladies R/	L
C-FS-16	8	¥ - V	
C-FS-17	- Blac	4/Tan- AVAC Clos	et
CFS-18		1 - MensRR	
C-FS 19	- 1	k - dining	
*	FS From Foyer to	End Dining	
C - 7-20		1 b Floor	
(-7+2)	¥" - ¥		
C-Sm-22	Sinhmastic - Kirc	hen	
C-SM-23	V - V	,	
(-TST-24	TSI-Tape - Crawlsp	ace ducts	
C-15E-25			
C-75I-26			
C-TST-27	-ing		
(-TSI-28			
CTSI-29	VV-	k.	·
C-C30	Cauthing - Rear Franc	ne	
C-C- 31	J - Frong Fran	ne	
Method of Shipment.	Grat/Mortar - Side Fa	Sample Condition Upon Receipt	
Reinquished by	Date/Time:	Received by:	Date/Time
Relinguished by:	Date/Time	Received by:	Date/Time
Controlled Document - COC-05 Asbestos	AGREE TO ELECTRONIC SIGNATURE (By checki	ing. I consent to signing this Chain of Custody document by	electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

Asbestos Chain of Custody (Air, Bulk, Soil) EMSL Order Number / Lab Use Only

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information
Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

EMSL Analytical, Inc 2205 Corporate Plaza Pkwy SE Suite 200 Smyrna, GA 30080 PHONE: (770) 956-9150 EMAIL: atlantalab@emsl.com

EMSL ANALYTICAL, INC.

EMS

Sample Number		Location / Description		Volume, Area or Homogeneous Area	Date / Time Sample (Air Monitoring On	ed ly)
C-GM-33	Grout/morr	ar - Colum	Λ			
				_		
						.
				·		
Method of Shipment:	L		Sample Co	ndition Upon Receipt		
Reinquished by:		Date/Time.	Received to		Date/Time	
		Date/Time			Date/Time	
Relinquished by			Received b	-y	Laternine	

Controlled Document - COC-05 Asbestos R15 4/23/2021 AGREE TO ELECTRONIC SIGNATURE (By checking I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc 's Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgement of all tarms and conditions by Customer. Page 3 Of 4

EMSL	-	Asbestos Chain of C EMSL Order Nur			Suit	ISL Analytical, Inc. 5 Corporate Plaza Pkwy Sl te 200 yrna, GA 30080
MSL ANALYTICAL, INC ESTING LASS - PRODUCTS - TRAININ	C.		1000		EMA	
Customer ID:	170		Billing ID:	same as Report-To leav	e this section blank. Thin	rd-party billing requires written aut
G Company Mome			- Company i	Name		
	WA Engi		- <u>-</u>			
Contact Name	42500		Billing Con			
E Street Address 3900	O Kongelaa	75 Phury	Street Add	ress		
City, State, Zig.	116. 20	Country	City. State.	Zip [.]		Country:
Phone	1.03 0,00 73.1		Phone:			
Email(s) for seport	Macielau	CALLE D	Email(s) fo	r Invoice		· · · · · · · · · · · · · · · ·
	MOSISC U	SANOUA.com				
Project		Project	Information		Purchase	
lame/No: 20/7					Order	
MSE LIMS Project ID:			US State where		ite of Connecticut (CT) m	nust select project location:
rovide)			samples collect	ed.	Commercial (Taxa	
Sampled By Name:	1,	Sampled By Stenes				No. of Samples in Shipment
		Turn-Arou	nd-Time (TAT)			
3 Hour 4-4.5 Ho		24 Hour 32 Hour		four 72 Ho s only; samples must be so		r 1 Week
			Selection			
	<u>M Air</u>		<u>M - Air</u>		TEM - Settled	
NIOSH 7400		AHERA 40 CFR, Pa	art 763		Microvac - AST	
NIOSH 7400 w/ 8hr		NIOSH 7402			Wipe - ASTM D	
<u>PLM - B</u>	Bulk (reporting limit)	EPA Level II			Qualitative via I	•
- CM 2PA 600/R-93	/116 (<1%)	ISO 10312*			Qualitative via l	Drop Mount Prep
PLM EPA NOB (<19	%)	<u>TEM</u>	<u>I - Bulk</u>			
POINT COUNT		TEM EPA NOB			Soil - Rock -	Vermiculite (reporting limit)
400 (<0.25%)	1,000 (<0 1%)	NYS NOB 198.4 (N	on-Friable-NY)		PLM EPA 600/	R-93/116 with milling prep (<0
POINT COUNT w/ 0						
	JRAVINE I KIC	L TEM EPA 600/R-93	3/116 w Milling P	rep (0.1%)	PLM EPA 600/	R-93/116 with milling prep (<0
400 (<0.25%)	_	TEM EPA 000/R-93	3/116 w Milling P	rep (0.1%)	<u> </u>	R-93/116 with milling prep (<0 R-93/116 with milling prep (<0
_	1,000 (<0 1%)		3/116 w Milling P <u>t (pleașe specif</u>		TEM EPA 600/	
400 (<0.25%)	1,000 (<0 1%)		-		TEM EPA 600/	R-93/116 with milling prep (<0
400 (<0.25%) NIOSH 9002 (<1%))		-		TEM EPA 600/	R-93/116 with milling prep (<0 e via Filtration Prep
400 (<0.25%) NIOSH 9002 (<1%)) 1,000 (<0 1%) - NY) on-Friable - NY)		-		TEM EPA 600/	R-93/116 with milling prep (<0 e via Filtration Prep
400 (<0.25%) NIOSH 9002 (<1%) NYS 198.1 (Friable NYS 198.6 NOB (N) 1,000 (<0 1%) - NY) on-Friable - NY)	Other Test	-	XJ	TEM EPA 600/	R-93/116 with milling prep (<0 e via Filtration Prep
406 (<0.25%) NIOSH 9002 (<1%) NYS 198.1 (Friable NYS 198.6 NOB (No NYS 198.8 (Vermice) 1,000 (<0 1%) - NY) on-Friable - NY)	Other Test	t {please specif	XJ	TEM EPA 600/	R-93/116 with milling prep (<0 e via Filtration Prep
406 (<0.25%) NIOSH 9002 (<1%) NYS 198.1 (Friable NYS 198.6 NOB (No NYS 198.8 (Vermice	 1,000 (<0 1%) NY) on-Friable - NY) ulite SM-V) arly Identified Homogeneous 	Other Test	t {please specif	y) ific requirements. 2 Size (Air Samples)	TEM EPA 600/	(R-93/116 with milling prep (<c e via Filtration Prep e via Drop Mount Prep</c
☐ 400 (<0.25%) ☐ NIOSH 9002 (<1%) ☐ NYS 198.1 (Friable ☐ NYS 198.6 NOB (No ☐ NYS 198.8 (Vermice) ☐ Positive Stop - Cle	 1,000 (<0 1%) NY) on-Friable - NY) ulite SM-V) arly Identified Homogeneous 	Other Test Please call with ; pus Areas (HA)	t (please specif your project-spec Filter Pore	y) ific requirements. 2 Size (Air Samples)	TEM EPA 600/	R-93/116 with milling prep (<c e via Filtration Prep e via Drop Mount Prep 0.45um</c
☐ 400 (<0.25%) ☐ NIOSH 9002 (<1%) ☐ NYS 198.1 (Friable ☐ NYS 198.6 NOB (No ☐ NYS 198.8 (Vermice) ☐ Positive Stop - Cle	 1,000 (<0 1%) NY) on-Friable - NY) ulite SM-V) arly Identified Homogeneous 	Other Test "Please call with y pus Areas (HA) aple Location / Description	t (please specif your project-spec Filter Pore	y) ific requirements. 2 Size (Air Samples)	TEM EPA 600/	R-93/116 with milling prep (<c e via Filtration Prep e via Drop Mount Prep 0.45um</c
☐ 400 (<0.25%) ☐ NIOSH 9002 (<1%) ☐ NYS 198.1 (Friable ☐ NYS 198.6 NOB (No ☐ NYS 198.8 (Vermice) ☐ Positive Stop - Cle	 1,000 (<0 1%) NY) on-Friable - NY) ulite SM-V) arly Identified Homogeneous 	Other Test "Please call with y pus Areas (HA) aple Location / Description	t (please specif your project-spec Filter Pore	y) ific requirements. 2 Size (Air Samples)	TEM EPA 600/	R-93/116 with milling prep (<c e via Filtration Prep e via Drop Mount Prep 0.45um</c
☐ 400 (<0.25%) ☐ NIOSH 9002 (<1%) ☐ NYS 198.1 (Friable ☐ NYS 198.6 NOB (No ☐ NYS 198.8 (Vermice) ☐ Positive Stop - Cle	 1,000 (<0 1%) NY) on-Friable - NY) ulite SM-V) arly Identified Homogeneous 	Other Test "Please call with y pus Areas (HA) aple Location / Description	t (please specif your project-spec Filter Pore	y) ific requirements. 2 Size (Air Samples)	TEM EPA 600/	R-93/116 with milling prep (<c e via Filtration Prep e via Drop Mount Prep 0.45um</c
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☐ 400 (<0.25%) ☐ NIOSH 9002 (<1%) ☐ NYS 198.1 (Friable ☐ NYS 198.6 NOB (No ☐ NYS 198.8 (Vermice) ☐ Positive Stop - Cle	 1,000 (<0 1%) NY) on-Friable - NY) ulite SM-V) arly Identified Homogeneous 	Other Test "Please call with y pus Areas (HA) aple Location / Description	t (please specif your project-spec Filter Pore	y) ific requirements. 2 Size (Air Samples)	TEM EPA 600/	R-93/116 with milling prep (<c e via Filtration Prep e via Drop Mount Prep 0.45um</c
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200 Route 130 North Cinnaminson, NJ 08077 Tel/Fax:(800) 220-3675 / (856) 786-0327 http://www.EMSL.com / cinnaminsonradonlab@emsl.com EMSL Order: 382301306

Customer ID: NOVA30

Customer PO:

Project ID:

	Attention:	Curtis Moses	Phone:	(678) 982-5576
		Nova Engineering & Environmental, Inc.	Fax:	(770) 425-1113
		3900 Kennesaw 75 Parkway	Received Date:	02/28/2023 12:22 PM
		Suite 100	Analysis Date:	02/28/2023 - 03/01/2023
		Kennesaw, GA 30144		
	Project:	3023022		
Test	30	23022		
Site:	G	Α		

Test Report: Radon in Air Test Results

Samples for EMSL Kit 298024

Liquid Scintillation	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
527934	Sanctuary	0.5	2/22/2023	2/24/2023	72	60	Customer
382301306-0003			9:07:00 am	11:02:00 am			
Sample Notes:							
527074	Sanctuary	0.5	2/22/2023	2/24/2023	72	60	Customer
382301306-0004			9:07:00 am	11:02:00 am			
Sample Notes:							
Summary for EMSL Kit 298	8024	Average Radon Re	esult: 0.5 pCi/L				

The results indicate that both testing devices registered below the United States Environmental Protection Agency (EPA) action level of 4.0 picoCuries per liter of air (pCi/L). The EPA recommends fixing your home if the average of two short-term tests taken in the lowest lived-in level of the home show radon levels that are equal to or greater than 4.0pCi/L. The radon test was performed using a liquid scintillation radon detector/s and counted on a liquid scintillation counter using approved EPA testing protocols for Radon in Air testing.

The EPA recommends retesting your home every two years.

Please contact EMSL Analytical, Inc. or your State Health Department for further information.

All procedures used for generating this report are in complete accordance with the current EPA protocols for the analysis of Radon in Air. This test was performed using EPA device protocol EPA-402-R-92-004.

Analyst(s):

Jeanel Zoll Radon (4)

63

Dominic Gehret, Radiochemistry Laboratory Manager, NJ Radon Measurement Specialist MES 13910 or other approved signatory

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages, including, but not limited to, damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages, arising out of or in connection with EMSL's services thereunder or the delivery, use, reliance upon or interpretation of test results by client or any third party. We accept no legal responsibility for the purposes for which the client uses the test results. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereunder. The test results meets all NELAC requirements unless otherwise specified.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ FL RB2034/R2687,IL RNL2008202,IN RTL00935,IA RNLAB10005,KS KS-LB-0005/KS-MS-0482,ME SPC202,MN RL-0005,NE 474/RMB-1083,NJ 03036/MEB92525/MES13910,NY 10872,OH RL39,OK D9952,PA 2573/3393/68-00367,RI RMB-108/RI00179,WV RL000220,NRSB-ARL6006,NRPP 109000-AL.

. Initial report from: 03/02/2023 12:31:43



А

200 Route 130 North Cinnaminson, NJ 08077 Tel/Fax:(800) 220-3675 / (856) 786-0327 http://www.EMSL.com / cinnaminsonradonlab@emsl.com EMSL Order: 382301306

Customer ID: NOVA30

Customer PO:

Project ID:

Attention:	Curtis Moses	Phone:	(678) 982-5576
	Nova Engineering & Environmental, Inc.	Fax:	(770) 425-1113
	3900 Kennesaw 75 Parkway	Received Date:	02/28/2023 12:22 PM
	Suite 100	Analysis Date:	02/28/2023 - 03/01/2023
	Kennesaw, GA 30144		
Project:	3023022		
30	23022		

Site:

Test

Test Report: Radon in Air Test Results

Samples for EMSL Kit 298025

GA

Liquid Scintillation	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
527057	Dining	0.2	2/22/2023	2/24/2023	72	60	Customer
382301306-0001			9:05:00 am	11:00:00 am			
Sample Notes:							
527979	Dining	0.5	2/22/2023	2/24/2023	72	60	Customer
382301306-0002			9:05:00 am	11:00:00 am			
Sample Notes:							
Summary for EMSL Kit 298	8025	Average Radon Re	esult: 0.4 pCi/L				

The results indicate that both testing devices registered below the United States Environmental Protection Agency (EPA) action level of 4.0 picoCuries per liter of air (pCi/L). The EPA recommends fixing your home if the average of two short-term tests taken in the lowest lived-in level of the home show radon levels that are equal to or greater than 4.0pCi/L. The radon test was performed using a liquid scintillation radon detector/s and counted on a liquid scintillation counter using approved EPA testing protocols for Radon in Air testing.

The EPA recommends retesting your home every two years.

Please contact EMSL Analytical, Inc. or your State Health Department for further information.

All procedures used for generating this report are in complete accordance with the current EPA protocols for the analysis of Radon in Air. This test was performed using EPA device protocol EPA-402-R-92-004.

Report Notes:

Analyst(s):

Jeanel Zoll Radon (4)

Dominic Gehret, Radiochemistry Laboratory Manager, NJ Radon Measurement Specialist MES 13910 or other approved signatory

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages, including, but not limited to, damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages, arising out of or in connection with EMSL's services thereunder or the delivery, use, reliance upon or interpretation of test results by client or any third party. We accept no legal responsibility for the purposes for which the client uses the test results. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereunder. The test results meets all NELAC requirements unless otherwise specified.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ FL RB2034/R2687,IL RNL2008202,IN RTL00935,IA RNLAB10005,KS KS-LB-0005/KS-MS-0482,ME SPC202,MN RL-0005,NE 474/RMB-1083,NJ 03036/MEB92525/MES13910,NY 10872,OH RL39,OK D9952,PA 2573/3393/68-00367,RI RMB-108/RI00179,WV RL000220,NRSB-ARL6006,NRPP 109000-AL.

. Initial report from: 03/02/2023 12:31:43

OrderID: 3823	801306	Ra	-	Chain of Cust	ody	EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077		
EMSL ANALYTICAL, TESTING LARS + PRODUCTS + TR	INC.	382	30130,				220-3675	
Customer ID: A	10,1170	==	1 Bil-To 8 U	Billing ID:	ection blank. Third-party billing require	s writen authorization, RadiLa	ab@emsl.cor	<u>т</u>
	1004 SC			Company Name:				
		nçi						
Contact Name:	Cimoses	0		Billing Conlact.				
Street Address:	3900 Keni	nesau 75PF	in	Street Address:				
City, State, Zip:	Endesau,	GA, 30144	Cofunitry:	City, State, Zip:			Country:	
Phone:	/							
Email(s) for Report	CMOSES & CMO	ISANOVAICO		Email(s) for Invoice				
Project -	2017011		Project	Information	Purchase Order:			
Name/No: EMSL LIMS Project ID:	3023027)		US State where		I (CT) must select project &	ocation:	
(If applicable, EI/ISL will provide)				samples collected:			ential (Non-1	Taxable)
Technician Name:	Moses	Tech	nician Cert#"	Technici	an Signature			
	NUL			ested Information	a			
1) Radon Test being	conducted for the p	urpose of: 🔲 Real Est	ate Transaction		Other			
2) Test Conditions O	bserved:		louse	Open House	_			
3) Building Type:				Commercial	Daycare/School			
 4) Building Foundation 5) If School Testing, 		Basemer	nt	Crawlspace	Slab on Grade	Olher		
6) Is this a Post Mitig	-		IZ NO					
Box Number	Device Number	Location / Floor	Exposure Period	Beginning Date and Tim	e Exposure Period Ending	g Date and Time	perature °F	Humidity %
• 298025	527057	Tiplar	7/12-	- MART 0905	- 2/24 - 1	IAO		
260020	~>-0-7	1/inng	2/22	0000	2/21 11			
• <u>298025</u>	527979		4/22-	0405	2/24-110	θ		
					1			
190011	527934	C	2/12 -	- 0.007	2/24 - 11	07		
· 170029		SLACTURIT	L/LL	0901	4/24 - 11	02		
• 298024	527074	Jr'	2/22 -	0907	2/24-110	72		
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*Comments/Special Ins	tructions.		•					
(le)	and k	1 Zall	228	23	12:21	PM N	14	
Client Sample #(s)	enel	Reall	2.1		Total # of Samples:	K.4c		
Method of Shipment:	Client	<u> </u>	<u> </u>	Sample Condition t	Jpon Receipt:			
Relinquished by:	CITENT	Date/Tin		Received by:	B	Date/Times /		2010
Relinquished by:	TA	Date/Tim	0995.	Received by	Ø		<u>93 9</u>	1.40
Controlled Document - COC-56 R	adon 82 04/45/2004					2010/1010		WΣ
Socialized Document - COC-36 R	2000 NZ 04(12/2021	AGREE TO ELECT	RONIC SIGNATURE (B)	checking, I consent to signin	g this Chain of Custody docume	nt by electronic signature)		



EMSL Analytical, Inc.

2205 Corporate Plaza Parkway SE, Suite 200 Smyrna, GA 30080 Tel/Fax: (770) 956-9150 / (770) 956-9181 http://www.EMSL.com / atlantalab@emsl.com EMSL Order: 072301725 Customer ID: NOVA30 Customer PO: Project ID:

Attention: Curtis Moses

Nova Engineering & Environmental, Inc. 3900 Kennesaw 75 Parkway Suite 100 Kennesaw, GA 30144 **Project:** 2017 Phone: (678) 982-5576 Fax: (770) 425-1113 Collected Date: 02/17/2023 Received Date: 02/17/2023 11:50 AM Analyzed Date: 02/23/2023 - 02/24/2023

Test Report:Air-	D-Cell(™) Analy	sis of Fungal Sp	oores & Partic	ulates by Optica	I Microscopy (N	lethods MICR	O-SOP-201, AST	M D7391)		
Lab Sample Number:	0	72301725-0001		0	72301725-0002		0	72301725-0003		
Client Sample ID:		A1 75			A2 75		A3 75			
Volume (L): Sample Location:	_			_						
		Exterior- Front	a		kterior- At Walk		Kitchen			
Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-	
Ascospores	74	3300	64.7	25	1100	55.8	-	-	-	
Aspergillus/Penicillium	-	-	-	-	-	-	4	200	33.9	
Basidiospores	40	1800	35.3	18	800	40.6	2	90	15.3	
Bipolaris++	-	-	-	-	-	-	-	-	-	
Chaetomium++	-	-	-	-	-	-	-	-	-	
Cladosporium	-	-	-	1	40	2	7	300	50.8	
Curvularia	-	-	-	-	-	-	-	-	-	
Epicoccum	-	-	-	-	-	-	-	-	-	
Fusarium++	-	-	-	-	-	-	-	-	-	
Ganoderma	-	-	-	-	-	-	-	-	-	
Myxomycetes++	-	-	-	2*	30*	1.5	-	-	-	
Pithomyces++	-	-	-	-	-	-	-	-	-	
Rust	-	-	-	-	-	-	-	-	-	
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-	
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-	
Unidentifiable Spores	-	-	-	-	-	-	-	-	-	
Zygomycetes	-	-	-	-	-	-	-	-	-	
Cercospora++	-	-	-	-	-	-	-	-	-	
Torula++	-	-	-	-	-	-	-	-	-	
Total Fungi	114	5100	100	46	1970	100	13	590	100	
Hyphal Fragment	-	-	-	-	-	-	-	-	-	
Insect Fragment	-	-	-	-	-	-	-	-	-	
Pollen	-	-	-	-	-	-	-	-	-	
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-	
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-	
Skin Fragments (1-4)	-	1	-	-	2	-	-	1	-	
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-	
Background (1-5)	-	1	-	-	2	-	-	1	-	

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

Daoxin Li, PH.D, Microbiology Laboratory Manager or other Approved Signatory

No discernable field blank was submitted with this group of samples.

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. High levels of background particulate can obscure spores and other particulates, leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particel or insect fragment. *** Denotes particles found at 300X. **. Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. Skin & Fibrous ratings: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-100%) of the background particles. Samples analyzed by EMSL Analytical, Inc Smyrna, GA AIHA LAP, LLC-EMLAP Accredited #100662

Initial report from: 02/24/2023 09:55 AM

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com



EMSL Analytical, Inc.

2205 Corporate Plaza Parkway SE, Suite 200 Smyrna, GA 30080 Tel/Fax: (770) 956-9150 / (770) 956-9181 http://www.EMSL.com / atlantalab@emsl.com

Attention: Curtis Moses

Nova Engineering & Environmental, Inc. 3900 Kennesaw 75 Parkway Suite 100 Kennesaw, GA 30144 Project: 2017 EMSL Order: 072301725 Customer ID: NOVA30 Customer PO: Project ID:

Phone: (678) 982-5576 Fax: (770) 425-1113 Collected Date: 02/17/2023 Received Date: 02/17/2023 11:50 AM Analyzed Date: 02/23/2023 - 02/24/2023

Test Report:Air-0	D-Cell(™) Analy	sis of Fungal S	pores & Partic	ulates by Optica	Il Microscopy (N	lethods MICR	O-SOP-201, AST	M D7391)	
Lab Sample Number: Client Sample ID: Volume (L):	072301725-0004 A4 75		0	072301725-0005 A5 75			072301725-0006 A6 75		
Sample Location:		Hall/Nursery			Sanctuary			Mens RR	
Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	1	40	22.2	1	40	10
Aspergillus/Penicillium	7	300	66.7	1	40	22.2	1	40	10
Basidiospores	3	100	22.2	3	100	55.6	4	200	50
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	1	40	8.9	-	-	-	2	90	22.5
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	1*	10*	2.5
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	1*	10*	2.2	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Cercospora++	-	-	-	-	-	-	1*	10*	2.5
Torula++	-	-	-	-	-	-	1*	10*	2.5
Total Fungi	12	450	100	5	180	100	11	400	100
Hyphal Fragment	-	-	-	1	40	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

Daoxin Li, PH.D, Microbiology Laboratory Manager or other Approved Signatory

No discernable field blank was submitted with this group of samples.

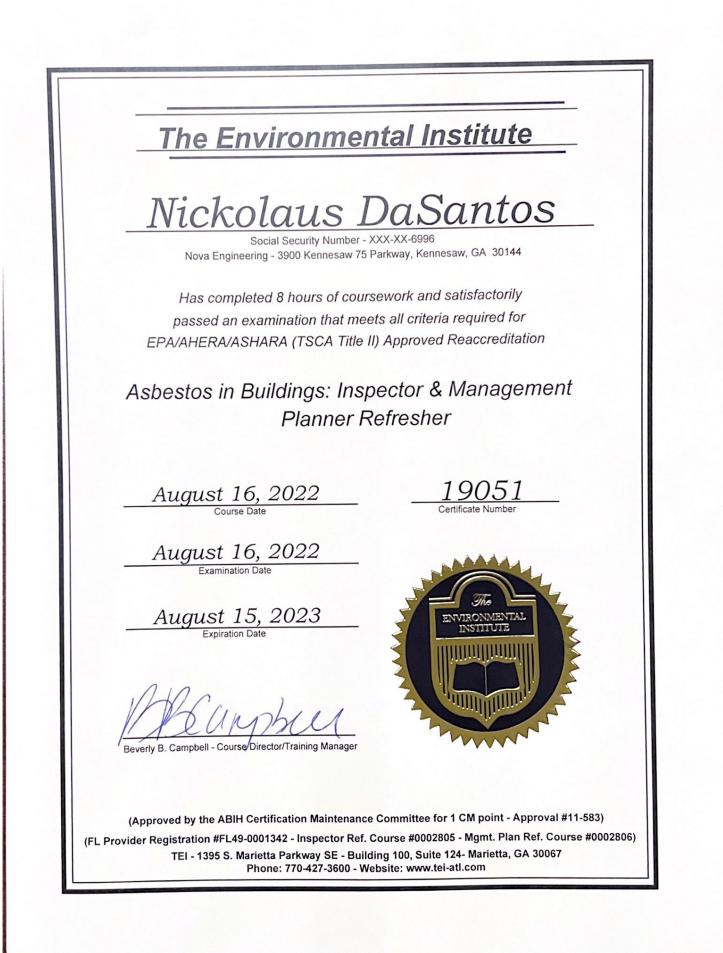
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Initial report from: 02/24/2023 09:55 AM

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com

lerID: 072301	⁷²⁵ Mic		Chain of Cu der Number / Lab Use		erm	EMSL Analytical, Inc. 2205 Corporate Plaza Pkwy SE, Suite 2 Smyrna, GA 30080			
MSL ANALYTICAL, I		07230				PHONE: (770) 956-9150 EMAIL: atlantalab@EMSL.com			
Oustomer ID:			If Billing IC		ort-To leave this section t	blank. Third-party billing requires wr	itten authorization		
	NOVAJO								
Company Name.	NOVA Eng. C. Moscs			iy Name:					
Contact Name:	C. Moses 0		Billing C	ontact:					
Contact Name: Street Address:	3900 Kennesau	75 Auni		ddress:					
	3900 Kennesan Kennesan, GA,	ZCI40Country	City, Sta	ite, Zip:	<u> </u>		Country:		
City. State, Zip.	-	<u> </u>	Phone:				L,,		
Email(s) for Report:	A set C set			for Invoice:					
<u> </u>	CMOSES & USAN								
Project		F	Project Information		Pur	chase ler:			
Name/No: 20	1	State	Zip Code		Stole of Com	ecticut (CT) must select pro	inst logation:		
MSL LIMS Project ID: f applicable, EMSL will rovide)		Samples Collected	Collected::				idential (Non-taxabl		
Sampled By Name:		Sampled By Signatu				No. of S			
C	MOSES		2			in Shipn	nent		
Sterile,	Sodium Thiosulfate Preserved Bottle L	Ised Biocide L	Ised in Source (specify)		1	- <u></u>		
	Public Water Supply Sam		l results may automati						
			r			able for select tests only: samples mu:			
3 Hour	6 Hour 24 Hour	32" Hour	48 Hour	72 Hour	96 Hour	Ly Week	2 Week		
MQ01 Air-Q cell	M174 MoldSnap		BIOLOGY TEST CODE s aeruginosa (P/A***)		M115 Sewage	Screen - Water (P/A***)	·		
M030 MICRO 5	M032 Allergenco-D		s aeruginosa (MFT*)			e Screen - Water (MPN**)			
M041 Fungal Direct Examin		M015 Heterotrophic	•		-	e Screen - Swab (P/A***)			
M169 Pollen ID & Enumeral	1011	M017 Total Coliform	8 E. Coli (Colilert P/A*	*)	M013 Sewage	e Screen - Swab (MFT*)			
M280 Dust Characterization	Level-1	M018 Total Coliform	1 & <i>E. Coli</i> (MFT*)		M730 Methici	llin-resistant Staph, aureus	(MRSA)		
1281, Dust Characterization			& E. Coli Enumeration	Colilert MPN**)	M031 Rapid-g Enumeration	prowing non-TB Mycobacter	ia Detection &		
M005 Viable Fungi-Air Sam		M019 Fecal Coliforn				· · · · ·			
vious viable Fung-Air Sam Cladosponum, Stachybotry:	ples (Includes <i>Pericillum, Aspergillus,</i> s Species ID & Count)	M020 Fecal Strepto M029 Enterococci (M014 Endoto:	kin Analysis Allergen (Cat. Dog, Cockroa	ch Dust Mite)		
	ace Samples (Genus ID & Count)	M129 Enterococci (M095 Bactero		ion, Dast Miter		
M008 Culturable Fungi-Surf	ace Samples (Includes <i>Penicillum,</i> Stachybotrys Species ID & Count)	M180 Real Time qP M025 Sewage Scree	CR-ERMI 36 Panel		Other - See A	Analytical Price Guide for Te nalysis Please use EMSL I			
M009 Bacteria Culture Gran	n Stain & Count	*MFT= Membrane F	iltration Technique						
M010 Bacteria Count & ID -	3 Most Prominent	**MPN = Most Prob	able Number						
M011 Bacteria Count & ID -	5 Most Prominent	***P/A = Presence/A	Absence						
Sample #	Sample Location/Description	Sample Type (Matrix)	Potable / Non- Potable (Only for Water)	Test Code	Volume/Area	Date / Time Collected	Temperature (Lab Use Only		
Example: Sample 1	Kitchen	Water	Potable	M017	1,000 mł	1/1/2021 3:30pm			
HI	Exterior - Front	Air		MOOI	75L	0912-211	7		
A2	Exterior - At Wil	4 Air	-	mooj	75 ^L	0923 2/17			
A3	Kitchen	Ain		mooj	752	0953 2117			
AY	Hall/Nursery	Air		MUOI	75 L	1004 211	?		
AS	Sanctuary	Air	<u> </u>	MOOI	754	1015 2/17			
A6	Mens RR	Air	-	MOOI	752	1028 2/17	•		
	Special Instructions and/or Re	gulatory Requirement	s (Sample Specifications	Processing Meth	nods. Limits of Dete	ection, etc)			
Method of Shipment:	Client		1150 Sample	Condition Upon F	Receipt:				
	7	Date/Time:	Receiv	ed by:	≁	Date/T/me	12 11.		
Relinquished by:	1 here is a second s						<u> </u>		
Relinquished by:	£	Date/Time;	A///d.S Receiv	ed by:		Date Time	1.1		

APPENDIX C PERSONNEL QUALIFICATIONS



NOVA CURTIS MOSES

Staff Professional

PROFESSIONAL EXPERIENCE

Mr. Moses is a Staff Professional with NOVA's Environmental Group. Mr. Moses has experience as an environmental professional providing various aspects of environmental consultation. His experience includes performing pre-renovation/pre-demolition asbestos inspections, lead based paint inspections, lead risk assessments, indoor air quality studies, microbial assessments, Phase I Site Assessments as well as large-scale asbestos and lead abatement oversight. He has worked in this industry since 2006.

Certifications /Registrations:

NIOSH 582, Certificate No. 2260 AHERA (Asbestos) Building Inspector, Certificate No.18965 South Carolina (Asbestos) No. BI-00805 North Carolina (Asbestos) No. 12831 Alabama (Asbestos) No. AIN0516610139 West Virginia (Asbestos) No. AI008032 U.S. EPA Lead Risk Assessor Certificate No. 1849 GA EPD Lead Risk Assessor Certificate No. 70RA00715 U.S. EPA Lead Inspector, Certificate No. 1969 North Carolina Lead Risk Assessor No. 120265

REPRESENTATIVE PROJECT EXPERIENCE

Airport Taxiway Extension-LaFayette Airport, LaFayette, GA AJR| Existing FBO Building Site, Cornelia, GA

Education

Read Hall Renovations & Additions, GA J-273 Atlanta Metropolitan State College, Atlanta, GA GΑ Tech Baseball Stadium Renovation, Atlanta, GA GT Chandler Stadium Bldg Envelope, Atlanta, GA NGTC Aquaponics/ Hydroponics Lab, Clarkesville, GA Atlanta's John Marshall Law School Parki, Atlanta, GA KSU English Building Asbestos Survey, GA KSU Library Building, GA Proposed Edgewood Ave. Student Housing, GA Gwinnett Tech. College Student Affairs, GA LBP Operation & Maint. Plan (O&M Plan), Newnan, GA Phase I ESA - 80 Jackson St., Newnan, GA Cy Grant Gymnasium, Clarksville, GA Agnes Scott College - Rebekah Hall, Decatur, GA Norton Hall - Kennesaw State University, Marietta, GA

Pettit 095 Building, Atlanta, GA Kennesaw State University - Marietta Cam, Marietta, GA KSU Library Building - Phase 2, Kennesaw, GA J-269 UWG Biology Building #58 Site, Carrollton, GA Oglethorpe University - Goslin Hall Ren., Atlanta, GA New Housing - Macon, Macon, GA KSU Abatement Oversight, Kennesaw, GA Talmadge Hall - Cochran, Albany, GA Browning Hall - Cochran, Albany, GA KSU English Building-Floor Tile/Mastic A, Kennesaw, GA Dalton State College-Sequoya Hall Renova, Dalton, GA KSU - Marietta Campus - Building B Mecha, Marietta, GA GTRI Cobb South Campus Site, Marietta, GA Morehouse School of Medicine -Mixed Use, Atlanta, GA KSU Howell Residence Hall Floor Tile Aba, Marietta, GA Rockefeller Hall, Atlanta, GA Wellstar Clinic, 3215 Campus Loop Road, Kennesaw, GA J-330 - University of West GA - Col, Carrollton, GA KSU Center, 3333 Busbee Drive NW, Kennesaw, GA GSU Window Restoration Monitoring, Atlanta, GA



GA EPD Lead Inspector. Certificate No. 60INS00215 Control of Respirable Crystalline Silica Dust Training 40 Hr. HAZWOPER, Certificate No. 2749407 8 Hr. HAZWOPER Certificate No. 1608045175860 Radiation Safety and Operation, Certificate No. RS0038000001TmpgA **Geo-Seal Certified Inspector** 472018

120 E Memorial Drive, Dallas, GA KSU Marietta Campus English Building, Marietta, GA Oglethorpe University-Goodman Hall Renov, Atlanta, GA 897 South Milledge Avenue Site, Athens, GA Kennesaw State University-Student Center, Kennesaw, GA Mike Cottrell College of Business UNG BO, Dahlonega, GA Howell Hall, KSU - Marietta Campus, Marietta. GA Dalton State College Bandy Gym Student R, Dalton, GA Gwinnett Technical College Building 100, Lawrenceville, GA 1398 Reinhardt College Parkway Site, Canton, GA Howell Hall Abatement, Marietta, GA Select Dormitories-Oglethorpe University, Atlanta, GA TCSG-334 North GA Technical College, Clarkesville, GA Colvard North. Level 2000 Renovation, NC UNCC Student Counseling Center, Charlotte, NC UNCC Sycamore Hall Renovation, Charlotte, NC UNCC - Colvard 2000, NC New Cherokee Middle School "C", GA St. Pius X High School, GA Woodland HS Renovations, Cartersville, GA AHERA 3 Year, GA Our Lady of the Assumption School, GA Immaculate Heart of Mary AHERA, GA Decatur Schools AHERA, GA St. John Neumann Catholic School, GA 758 Scott Boulevard, GA Decatur High School, GA Lovett Field House, GA 1083 Marietta Hwy Site, GA Marist School - Enviro Services, GA Norcross Cluster Elm. School, GA

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Community School, International Decatur, GA Dug Gap Elementary School Site, Dalton, GA Fulton Science Academy Site, Alpharetta, GA Point Middle School Valley Fieldhouse, Dalton, GA Jordan Hall, Atlanta, GA 100 College Street, Adairsville, GA AHERA 3-Year Re-Inspection/Update to O&M, Decatur, GA Renfroe Middle School, Decatur, GA Pine Log Elementary School - 500 Block, Rydal, GA KIPP South Fulton Academy, East Point, GA Renfroe Middle School Renovations, Decatur, GA Decatur High School, Decatur, GA ECLC Modular Classroom Site. Decatur, GA 740 Cameron Alexander Blvd. Site, Atlanta, GA 222 Piedmont Confirmatory Limited ACM, Atlanta, GA 569 Martin Luther King Jr. Site, Atlanta, GA Cartersville Primary School. Cartersville, GA Decatur High School Renovations, Decatur, GA KIPP Vision Primary School, Atlanta, GA College Heights Early Childhood Learning, Decatur, GA Clairemont Elementary School. Decature, GA Heard Mixon Elementary School - 2nd Grad, Covington, GA Clayton Co Information Technology Bldg, Atlanta, GA Winnona Park Elementary School, Decatur, GA East Point Auditorium Site, East Point. GA Oconee County Elementary School, Watkinsville, GA



Decatur City Schools AHERA, Decatur, GA Ficquett Elementary School, Covington, GA Atlanta Public Schools AHERA 3 Year Re-I. Atlanta. GA Renfroe Middle School, Decatur, GA 540 Kentucky Street, Decatur, GA Multiple Sites-Alpharetta & Cumming GA, Alpharetta, GA City Schools of Decatur, Decatur, GA Renfroe Middle School-Limited Indoor Air, Decatur, GA Ficquett Elementary School, Newton, GA Decatur High School, Decatur, GA St. Jude Catholic School, Atlanta, GA Winnona Park Elementary School, Decatur, GA 5710 Namon Wallace Drive Site, Cumming, GA 1890 Donald Lee Howell Parkway, Atlanta, GA Booker T Washington High School, Atlanta, GA Atlanta Public Schools Legionella Sampli, Atlanta, GA APS Legionella Sampling Retesting, Atlanta, GA APS-Legionella Sampling Testing, Atlanta, GA Old Hickory Flat Gym, Canton, GA APS Legionella 2nd Event Re-Sampling, Atlanta, GA APS-Limited Fungir Air Assessment, Atlanta, GA City Schools of Decatur Legionella Sampl, Decatur, GA City School of Decatur Limited Drinking, Decatur, GA Existing Gymnasium - KIPP Soul Campus, Atlanta, GA Anson Co. Schools AHERA 3 Yr Re-Insps, Wadesboro, NC Kiddie Academy Site - Harrisburg Ph. I, Harrisburg, NC

Government

Courthouse/Post Office -U.S. Columbus, Columbus, GA GS-P-03-14-AZ-0028 Peachtree Summit Fed, Atlanta, GA Courthouse/Post Office U.S. Columbus, Columbus, GA Sam Nunn Federal Building PDS, Atlanta, GA Columbus Federal Courthouse Site, Columbus, GA 2630 Tuttle Building, Atlanta, GA Paulding County - New GA Library, Dallas, GA Ponce City Market, GA 1.7-Acre Chattin Drive Site, GA Environmental Assessment-Clayton County, GA 130 East Main Street, GA Cobb County Water Laboratory, GA Cherokee County Fire Station #17, GA 555 Battlecreek Road, GA 3121 Norman Berry Drive Site, East Point, GA Forsyth County Courthouse Site, Cumming, GA 11575 Maxwell Road Site, Roswell, GA CDBG HOME Lead Assessment, Canton, GA Bells Ferry Station #1, Acworth, GA 55 Savannah Street Site, Newnan, GA 956 Univeter Road Site, Canton, GA 242 Hames Road Site, Canton, GA 511 Chattin Drive Site, Canton, GA Fire Station 11 Site, Canton, GA **Cherokee County Historic Courthouse** Site, Canton, GA 310 Technology Parkway, Peachtree Corners, GA 1467 Reinhardt College Parkway Site, Canton, GA Jones Building Renovations, Canton, GA 204 Main Street Site, Adairsville, GA Fire Station 24, Canton, GA East Pointe Fire Station Site, East Point, GA East Point City Hall Limited Phase II, East point, GA



Juvenile Justice Center-Building C-Offic, Cumming, GA Fire Station 2 and Fire Station 3, Canton, GA Forsyth County Detention Center, Cumming, GA Cobb County Fire Station 7, Marietta, GA Juvenile Justice Center Courthouse, Cumming, GA Cherokee County Sheriff's Office -IAO, Cherokee, GA Fire Station 15, Canton, GA 430 Commerce Park Drive, Marietta, GA Fire Station 15, Canton, GA Juvenile Justice Center, Cumming, GA 1.10-Acre Namon Wallace Road Site, Cumming, GA 25 Jefferson Street, Newnan, GA Animal Services Site, Cumming, GA Douglas County Courthouse Renovations, Douglasville, GA Six Fulton County Libraries, College Park, GA Dick's Creek Water Reclamation Facility, Cumming, GA Cherokee County Historical Society Site, Canton, GA East Point City Hall - Radon Testing, East Point, GA 8485 West Courthouse Square Road Site, Douglasville, GA 11565 Maxwell Road Site, Atlanta, GΑ 5130 South Jett Road Site, Woodstock, GA Dick's Creek Water Reclamation Facility/, Suwanee, GA Nicholson Library New Annex, Nicholson, GA Forsyth County Juvenile Court Site, Cumming, GA 2115 Chloe Road Sexton Hall, Cumming, GA 57 E Broad Street, Newnan, GA Escambia County, AL Courthouse ENV, Brewton, AL

Fulton County Courthouse Facility, Atlanta, GA Lee Arrendale Prison- BE Condition Asses, Alto, GA GBA-180 2 Capitol Square Renovation, GA GBA-181 Capitol Plaza, GA Fernbank Museum of Natural History, Atlanta, GA GBA-184 GEMA & Homeland Security Agency, Atlanta, GA DCY-104 Central PDC Conversion, Caldwell, GA GDOT Building Capital Square, GA Asheville Federal Courthouse Site, Asheville, NC Metro State Prison Site, Atlanta, GA GDPS Buildings 26 & 29, Atlanta, GA GEMHSA Bldgs 1 and 2, Atlanta, GA Augusta State Medical Prison, Augusta, GA Pulaski State Prison, Hawkinsville, GA Washington State Prison Dental Clinic, Davisboro, GA Arnall Building Site, Milledgeville, GA Lee Arrendale Prison- Envelope Cond., Alto, GA Metro State Prison - Phase 2, Atlanta, GA

Healthcare

South Dekalb Plaza-Humana, Decatur, GA Newnan Hospital Redevelopment, GA Dacula Medical Office Building, GA Hamilton Mill Medical Office Building, GA Newnan Hospital Redevelopment, GA Atlanta VA Specialty Outpatient Clinic, Decatur, VA 1460 E. Victory Drive - ACM Survey, Savannah, GA 113 Minis Avenue - ACM Survey, Garden City, GA 475 Gateway Center Blvd. - ACM Survey, Brunswick, GA 312 N. River Street - ACM Survey, Claxton, GA



1357 Hembree Road Site, Roswell, GA USRC Fitzgerald 0144 Site, Fitzgerald, GA 1605 CHANTILY DRIVE SITE, Atlanta, GA Emory Winship at Midtown, Atlanta, GA Grady Health System Aldredge Bldg ENV. Atlanta. GA CDC Roybal East Parking Deck, Atlanta, GA Clinical Decision Unit Kennestone, Marietta, GA CDU Kennestone - Mastic Abatement, Marietta, GA 400 S Pinetree Blvd-Southwestern State C. Thomasville, GA Woodbridge for Clinton Sr. Lvg. Asbestos, Clinton, NC Appalachian Regional HCS Expansion Ph. 1, Boone, NC

Hotel

North Decatur Road Properties, Atlanta, GA Piedmont Center - Suite 600, Atlanta, GA Stone Mountain Marriott Renovation, Stone mountain, GA

Manufacturing

Majestic Logistics Center-UPS. Atlanta, GA Glock Facility, GA Former Larkin Coils Inc. Facility, Atlanta, GA Stonewall Tell Road Site, Atlanta, GA Stonewall Tell Road Development Site, College Park, GA Lenny Boy Brewery - 3000 S. Tryon Asbest, Charlotte, NC 1599 Memorial Drive, Atlanta, GA 6300 Button Gwinnett Drive, Atlanta, GA Indian Trail Distribution Center, Lilburn, GA 5000 Kristie Way, Chamblee, GA

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Multifamily/Mixed-Use Donald Lee Hollowell Parkway Project, Atlanta, GA Donald Lee Hollwell Project, Atlanta, GA Ponce City Market, GA 8th and Spring St. Sewer Line Relocation, GA Ponce City Market - Parcel F, GA Oxford Encore (Special Inspections), GA 250 East Ponce de Leon Parking Deck, Decatur, GA Peachtree & Stratford Development, Atlanta, GA 563 Memorial Drive, Suites R1-R2-R3, Atlanta, GA 39-Acre Collier Ridge Tract, Atlanta, GA ALTA Dairies, Atlanta, GA 348 Mitchell Street - Environmental Serv, Atlanta, GA Memorial Drive Tract, Atlanta, GA 20-Acre Halcyon Tract, Alpharetta, GA Canton Mills Apartments, Canton, GA Silica Dust Sampling-8 Hour TWA, Atlanta, GA Huff Road Tract, Atlanta, GA The Fields at Peachtree Corners Apartmen, Norcross, GA Anglier Avenue Tract, Atlanta, GA Canton Mill Apartments, Canton, GA 1979 Mars Hill Road Site, Acworth, GA CPH No. W13775 WM XPS #86874 Gurley, AL, AL CPH No. W13766 WM XPS #86869 Grant, AL, AL CPH No. W13765 WM XPS #86870 Hokes Bluff, AL CPH No. W13805 WM XPS #87109 Campobello,, SC CPH No. W13776 WM XPS #86887 Gray Court, SC Ashley Place Apartments, Charlotte, NC

Office

425 Horizon Drive, GA



GA Pacific 27th Floor Supplemental ACM, GA GA Pacific - Loading Dock Asbestos Sampl, Atlanta, GA Building CAPEX Grant Roof Replacement, Atlanta, GA Ponce City Market Service Building, GA MailChimp at PCM, GA Atlantic Yards, Atlanta, GA Project Fusion, Atlanta, GA Project Fusion-Holder, Atlanta, GA Project Acorn, GA 730 Peachtree Street, GA GA Pacific Center LBP, GA West Peachtree & 14th Street, GA Yancey Augusta, GA 1000 Circle 75 Building, GA 2150 Parklake, GA 133 Univeter Road, GA Heritage Maclellan Apartments, LLC, Chattanooga, TN Ponce City Market-7th Floor Air Testing, Atlanta, GA 359 East Paces Ferry, Atlanta, GA 2700 Delk Road Site, Marietta, GA Zep Facility - 1360 Annex, Atlanta, GA 1776 Peachtree Street Site, Atlanta, GA The Candler Building, Atlanta, GA Proposed NCR Office Development Site, Atlanta, GA 222 Piedmont Avenue NE, Atlanta, GA Business Center Barrett Site, Kennesaw, GA CryoLife Renovations, Kennesaw, GA The Pointe at CommNet, Atlanta, GA 6105 Peachtree Dunwoody Site, Sandy Springs, GA 1905 Scenic Highway Site, Snellville, GA GA Pacific Center Renovations Phase, Atlanta, GA SGPS-Suite 410 Expansion, Norcross, GA Old Genuine Parts Building, Atlanta, GA 1700 Commerce Drive, Atlanta, GA

Environmental Consultation, Atlanta, GA 3750 Crown Road and 3849 Browns Mill Roa, Atlanta, GA The Candler Building Site, Atlanta, GA Equitable Building, Atlanta, GA 300 & 306 Luckie Street, Atlanta, GA Grant Building Site, Atlanta, GA Silica Dust Sampling - Multiple Projects, Marietta, GA Peachtree Center Renovations ACM, Atlanta, GA The Candler Building ACM Roof Sampling, Atlanta, GA 673 & 771 Juniper Street, Atlanta, GA 58 Hospital Road, Newnan, GA Midtown Heights Site, Atlanta, GA One Baltimore Place, Atlanta, GA Larkin Building B, Atlanta, GA Confidential - Project Fusion, Atlanta, GΑ 48th Floor ACM Sampling, Atlanta, GA Post Centennial Park Site, Atlanta, GA Peachtree Summitt Federal Building, Atlanta, GA 1600 Dunwoody Club Drive Site, Atlanta, GA Lifecycle Building Center, Atlanta, GA 330 Auburn Avenue, Atlanta, GA 22 7th Street & 21 8th Street, Atlanta, GA 25th Floor Montag Server Room, Atlanta, GA GA Pacific Renovations Ph III & IV, Atlanta, GA 1400 Lake Hearn Drive, Atlanta, GA 3225 Cumberland Blvd Site, Atlanta, GA 760 Herlong Avenue Site, Rock Hill, SC 1900 Lake Park Drive, Smyrna, GA GA Pacific-Supplemental Sampling, Atlanta, GA 7 East Building, Newnan, GA Solomon and Martin Street Site, Atlanta, GA 1439 Peachtree Street, Atlanta, GA 1330 West Peachtree Street Site, Atlanta, GA



202 Milton Avenue SE, Atlanta, GA 795 South Cobb Drive Expansion, Marietta, GA Waldo's Old Fourth Yard Project, Atlanta, GA 1850 Parkway Place, Marietta, GA GMA Office Renovations, Atlanta, GA Promenade II - 18th Floor, Atlanta, GA 550 Farr Building 2nd and 3rd Floor, Atlanta, GA 1944 Piedmont Site, Atlanta, GA Docutab Site, Atlanta, GA Tuttle Building Hazardous Materials, Atlanta, GA 27 8th Street, Atlanta, GA Stone Mountain 3rd Floor, Stone Mountain, GA 75 Atlanta Street, Marietta, GA 111 John Wesley Dobbs Avenue, Atlanta, GA Lake Mirror Road Site, Forest Park, GA 1044 Booth Road Site Warner Robins, GA, Warner Robbins, GA 1975 Lakeside Parkway, Tucker, GA 748 Virginia Avenue, Hapeville, GA GA's Own IAQ, Atlanta, GA 75 Bennett Street NW, Atlanta, GA 170 Mitchell Street SW, Atlanta, GA Kennesaw First Baptist, Kennesaw, GA Hampton Inn Project, Atlanta, GA Concourse One - Mastic Sampling, Atlanta, GA 2329 Cheshire Bridge Road Site, Atlanta, GA Tuttle Building Suuite 233, AtaInta, GA Former Johns Creek Rite Aid Radon, Johns Creek, GA 1111 Quintard Avenue Site, Anniston, NC 2730 & 2732 Candler Road, Decatur, GA 100 Peachtree Street, Atlanta, GA 335A Academy Drive Site, Dallas, GA 1170 Howell Mill Road Fungi, Atlanta, GA

Asbestos Containing Material Awareness T, Atlanta, GA Project Fusion, Atlanta, GA Sharon Towers Development Environmental, Charlotte, NC 1451 Bryant Street Asbestos & Paint Surv, Charlotte, NC 305 Doggett Street ENV, Charlotte, NC 3811 Kimwell Drive ACM & LBP Survey, Winston-Salem, NC

Recreational

Atlanta United Training Ground -Academy, Marietta, GA 72 GA Avenue, Atlanta, GA Herodian Way 10-Acre Outparcel, GA Warren/Holyfield Boys and Girls Club, Atlanta, GA Harland Boys & Girls Club Site, Atlanta, GA Utopian Center for the Arts Subsurface E, Riverdale, GA 3350 Gwinnett Place Drive Site, Duluth, GA

Religious

St. John The Evangelist, Atlanta, GA St. JohnThe Evangelist, GA Central Baptist Church Additions, Newnan, GA St. Jude the Apostle AHERA, GA Saint Peter Claver Catholic School AHERA, GA St. Pius Catholic HS Ahera, GA Christ the King Catholic School, GA Beth Jacob of Atlanta, GA 4900 Ivey Road - 9.33 Acre Lot, Acworth, GA First Baptist Church of Newnan Renovatio, Newnan, GA 810 Joseph E. Boone Blvd. Site, Atlanta, GA Our Lady of the Mount Roman Catholic Chu, Lookout Mountain, GA Cathedral of St. Philip Renovations, Atlanta, GA Our Lady of the Mount Roman Catholic Chu, Lookout Mountain, GA



Cathedral of Christ the King Renovations, Atlanta, GA Cathedral Christ of the King Renovations, Atlanta, GA Westminster Presbyterian Church-Sanctuar, Atlanta, GA Cathedral of Christ the King Gymnasium, Atlanta, GA 1255 Collier Road Site, Atlanta, GA Our Lady of Mount Roman Catholic Church, Lookout Mountain, GA St. Jude Catholic School, Atlanta, GA 4280 Atlanta Road, Smyrna, GA AHERA 3 Year Re-Inspection/Our Lady of t, Atlanta, GA Interfaith Outreach Home Site. Doraville, GA Basilica of the Sacred Heart of Jesus Si. Atlanta. GA St. Jude AHERA 3 Year Re-Inspection, Atlanta, GA St. Jude the Apostle Catholic Church, Sandy Springs, GA St. John Neumann Catholic Church, GA Selwyn Ave Presbyterian Church -Asbesto, Charlotte, NC

Residential

Residential Tower & Parking Deck, GA 198 Old Hull Road Site, Athens, GA 3455 Old AL Road, GA 6024 and 6038 Roswell Road, GA Mabry Road Tract, GA Oak Forest Circle Tract, GA Oakridge Plantation Tract, GA 3rd and Peachtree, GA 2420 Peachtree Road Site, GA 6151 Avery Street, GA 935 Confederate Avenue Bldg 18, GA 1000 West Peachtree Street, Atlanta, GA 12th Street Project, Atlanta, GA 312 South Candler Street Site, Decatur, GA 455 Coleman Drive Site, Roswell, GA Residential Site - Loxley, AL, Loxley, GA

824 Santa Fe Trail Site, Woodstock, GA 33059 Residential Site, Loxley, AL 1719 Scenic Road ACM, Snellville, GA Ponce De Leon Project, Atlanta, GA 504 Thrasher Street, Norcross, GA Lenbrook Expansion, Atlanta, GA West Wieuca Road Tract, Atlanta, GA Central Baptist Church Additions, Newnan, GA 701 and 711 North Price Road, Buford, GA Lidl 690 Holcomb Bridge Road, Roswell, GA 2015 Memorial Tract Drive, Atlanta, GA Peachtree City Site, Peachtree City, GA Dilbeck Road Tract, Atlanta, GA Shepherd Center Share Apartments, Atlanta, GA 1722 Harbin Road SW, Atlanta, GA Tatum Road Property, Palmetto, GA 933 Kirkwood Avenue SE, Atlanta, GA Eleven Residential Structures. Austell, GA 1072 West Peachtree Street, Atlanta, GΑ Hapeville Assemblage-60 Parcels, Hapeville, GA 566 Church Street, Marietta, GA 848 Tanner Road Site, Greenville, SC Hampton Court Apartments, GA Bradley Park Apartments, Cumming, GΑ Brookside Heights Apartments, Cumming, GA Greenville Downtown Lofts. Greenville, SC S. Suber Road Lead & Asbestos Survey, Greer, SC 2444 Vail Avenue Pre-Demo, Charlotte, NC

Retail

Procter & Gamble, GA Laundry Commons, GA Tarrant City Family Dollar, AL Tri-Cities Plaza, GA



OxBlue Corporation Building Renovation, GA 2865 Log Cabin Drive Site, GA Floor & Decor - Buford Store, Buford, GA Twelve Greater Atlanta Area Sites. Greater Atlanta Area, GA Stonecrest Mall - H & M, Lithonia, GA Stonecrest Mall Site, Lithonia, GA 1599/1605 Memorial Drive Sites, Dekalb, GA 3760 & 3780 South Cobb Drive Site, Smyrna, GA Franklin Plaza Shopping Center, Marietta, GA 1402 Brevard Road Site Phase I ESA Updat, Asheville, NC Atlantic Station - T3 West Midtown, Atlanta, GA Atlantic Station - Block C, Atlanta, GA 129 North Avenue, Atlanta, GA Atlantic Station Buildings 5 and 6 Demo, Atlanta, GA Underground Atlanta Mold Sampling, Atlanta, GA NTB 930-Anderson, SC, Atlanta, GA 10102 Main Street Site, Woodstock, GΑ Phase II - Alta Dairies, Atlanta, GA NTB - 885 Marathon Parkway, Lawrenceville, GA 30 Ac. Johnston Road-Providence West Sit, Charlotte, NC Underground Atlanta Block 3 & 4, Atlanta, GA Presidential Markets Shopping Center Sui, Snellville, GA North Point-Former Babies R Us, Alpharetta, GA Atlanta Underground Supplemental Samplin, Atlanta, GA Atlanta Dairies Music Venue, Atlanta, GA Hapeville Theater, Hapeville, GA Ponce City Market ACM, Atlanta, GA Presidential Markets Shopping Ctr #110, Snellville, GA

Sandtown Crossing, Atlanta, GA

Bo Ginn Aquarium Site, College Park, GA 1020 Spring Street, Atlanta, GA Dirty Dogs Car Wash - Douglasville, Douglasville, GA Atlanta Mission Ethel Street Shelter, Atlanta, GA Presidential Markets Shopping Center-AMC, Snellville, GA Amsterdam Walk, Atlanta, GA 5500 Frontage Road, Forest Park, GA Former Johns Creek Rite Aid Radon, Johns Creek, GA 3201 Peachtree Corners Circle, Peachtree Corners, GA Frito-Lay Sites, Spanish fort, AL 2772 Candler Road, Decatur, GA 862 Harbins Road, Dacula, GA Lidl Norcross Jimmy Carter Blvd, Norcross, GA 4285 Washington Road, Evans, GA 2172 Lawrenceville Suwanee Road, Suwanee, GA Walmart Express - Dawson, GA ENV, GA Walmart Express - Pelham, GA ENV, GA Waldo Rood Site - Pet Palace, Cary, NC

Transportation

DOT-74A Welcome Ctr - South(Lake Park), Lake Park, GA GDOT MMIP 400 Exp Lanes PI#0001757, Kennesaw, GA GDOT I-285 @ I-20 W Interch PI #0013918, Various, GA GDOT Master On-Call Drilling Contract, Carroll, GA GDOT I-285 @ I-20 West Interchange TO#4, Various, GA Delta Museum, GA Henry County Roadway, McDonough, GA Andrew Jackson Highway Tract LBP/ACM Sur, Charlotte, NC GDOT GEC MMIP I-285/I-20 E. Interchange, Kennesaw, GA



GDOT SR3 CONN @ CR392 Upper Riverdale Rd, Riverdale, GA US 17 Bridge RepImnt. over Edisto River, Columbia, SC SCDOT US1 Bridge Repl. over Shaws Creek, Charleston, SC

Utilities

GA Pacific Center Renovations, Atlanta, GA

Water/Wastewater

Riverside Drive WTP-Chemical Bldg, Gainesville, GA Oglethorpe University Residential Covid in Water Sampling Atlanta, GA

The Environmental Institute Curtis Moses Social Security Number - XXX-XX-9977 Nova - 3900 Kennesaw 75 Parkway, Kennesaw, GA 30144 Has completed 4 hours of coursework and satisfactorily passed an examination that meets all criteria required for EPA/AHERA/ASHARA (TSCA Title II) Approved Reaccreditation Asbestos in Buildings: Inspector Refresher 18965 May 17, 2022 Certificate Number May 17, 2022 Examination Date ENVIRONMENTAL May 16, 2023 Expiration Date INSTITUTE Beverly B. Campbell Course Director/Training Manac (Approved by the ABIH Certification Maintenance Committee for 1/2 CM point - Approval #11-577) (Florida Provider Registration Number FL49-0001342 - Course #FL49-0002805) TEI - 1395 S. Marietta Parkway SE - Building 100, Suite 124 - Marietta, GA 30067 Phone: 770-427-3600 - Website: www.tei-atl.com

APPENDIX D

QUALIFICATIONS OF CONCLUSIONS

QUALIFICATIONS OF CONCLUSIONS

The findings and opinions presented are relative to the dates of our site work and should not be relied on to represent conditions at substantially later dates or locations not investigated.

The opinions included herein are based on information obtained during the study and our experience. If additional information becomes available which might impact our environmental conclusions, we request the opportunity to review the information, reassess the potential concerns and modify our opinions, if necessary.

Assessments may include interviews, a review of documents prepared by others or other secondary information sources. NOVA has not verified the provided information and has no responsibility for the accuracy or completeness of the information.

Although this assessment has attempted to identify the potential for environmental impacts to the subject property, potential sources of contamination may have escaped detection due to: (1) the limited scope of this assessment, (2) the inaccuracy of public records, (3) the presence of undetected or unreported environmental incidents, (4) inaccessible areas and/or (5) deliberate concealment of detrimental information. It was not the purpose of this study to determine the actual presence, degree or extent of contamination at the site, except as specifically described in the previous sections of this report. This would require additional exploratory work, including supplemental sampling and laboratory analysis.

This report is intended for the sole use of *Cherokee County Board of Commissioners*. The scope of work performed during this study was developed for purposes specifically intended by *Cherokee County Board of Commissioners* and may not satisfy other user requirements. Use of this report or the findings and conclusions by others will be at the sole risk of the user.

Our professional services have been performed, our findings obtained, our conclusions derived and our recommendations prepared in accordance with generally accepted engineering practices and principles. This statement is in lieu of all other statements or warranties, either expressed or implied.