Concord
NORTH CAROLINA
High Performance Living
635 Alfred Brown Jr. Court SW, P.O. Box 308, Concord, NC 28026 – www.concordnc.gov

ACADEMY COMPLEX RENOVATIONS
PROJECT NO. 2025-016
ADDENDUM 1

July 23rd, 2025

To all bidders:

Please make note of Addendum 1 and acknowledge receipt in the Bid Form (page 19) of the Bid Documents.

This addendum will serve to answer technical questions received to date and provide updated Sheets to the Plans as needed:

1. Is there a detail for the Combo Pedestals (C-400)/Food Truck Pedestal (P1.1)?
    a. Electrical Site Drawing E2.0 calls out the Leviton Camphead RVST1 with stand.
2. P1.1 shows a water fountain (P-6A) and a yard hydrant (GYH) that do not show up on the Civil Plans. Will these be installed?
    a. Yes, please install as shown on the plumbing plan.

3. P1.1 and C-400 also show the waterline tying into the back side of the building, is this correct?
    a. Yes, 2" water shut-off needs to be in open area between overhead doors as shown on P1.1. (SEE REVISED PLAN C400 ATTACHED).
4. Is there a list of items that will be provided by the owner?
    a. Building wise, noted on drawings, Toilet Accessories: TA-1(toilet paper disp.), TA-7(soap disp.), TA-11(adult changing table), TA12 (paper towel disp.)
5. L100 – Is the field striping and City of Concord logo painted by the Owner?
    a. Contractor to Provide a full four-color mid-field inlaid logo as shown.

    Full Size Soccer – Provide Yellow inlaid/tufted lines

    U10 Soccer – Provide Blue inlaid/tufted lines

    Baseball – Provide White inlaid/tufted lines

Football - Provide Gray Tick Marks - The owner will only paint football when needed.

6. L100 – Is the pitching mound by the Owner?
    a. 2.1 OWNER PROVIDED EQUIPMENT TO BE ASSEMBLED AND INSTALLED BY THE CONTRACTOR
        i. Contractor to provide labor for assembly and placement of the following owner provided items.
            1. Four (4) sets of five row aluminum bleachers
            2. Four (4) 15’ long aluminum dugout benches
            3. Two (2) Regulation size soccer goals
            4. Four (4) U12 size soccer goals
            5. One (1) Full size NCAA portable mound
            6. Two (2) Bullpen Mounds
            7. Eight (8) Trash Cans
7. L100 – Who is responsible for relocating the scoreboard? Is this by Owner or GC? If by GC, would you provide the new location. It appears to be the same location on sheet L100 and C101.

a. The bidding contractor is responsible for relocating the scoreboard. The scoreboard currently is inside the proposed synthetic turf area. The existing scoreboard will move back approximately +/- 20 LF from the original position.

8. A1.1 - Includes TA-12, Paper Towel Dispenser in the Specialties schedule. However, TA-12 is not shown in the drawings. Please confirm if this item is used. If it is, please provide location.
   a. Used at Football Concession. See A1.2 Equipment Schedule - #1 Hand Sink.
9. Can you highlight or better label where the HD concrete paving changes to standard sidewalk. We see arrows pointing to general areas, but do not see a clear line or distinction in the hatching pattern that shows exactly where HD concrete paving starts and stops.
   a. Please see the updated L100 and L102 sheets attached.
10. Page A1.4 shows an area drain at the exterior of the McAlister Restroom floor plan. It references the site drawings for the drain

piping. The drain piping for this does not show up on the site drawings. Please clarify what is needed.

a. Please see the updated C300 sheet attached.

11. The specifications include a section for Irrigation. It is not clear on the drawings what the scope of this irrigation is. Please advise on which areas of the park will need to have irrigation.

a. The Irrigation specification can be deleted.

12. Please confirm that the only area of sod is located between the new restroom building and new dugout. Please confirm any other areas that are disturbed, and do not receive finished products (paving, concrete, stone, synthetic turf etc.) will be seeded, not sod.

a. Yes –the only area of sod is located between the new restroom building and the new dugout. The remainder of areas that are disturbed and do not receive finished products will be seeded.

13. Regarding Demolition Keynote 2 on Sheet A1.3, which states: *"Replace damaged wood studs in kind"*, what percentage per linear foot (LF) of wall should we include for wood stud replacement?

a. The intent of the note is that studs damaged through actions of the contractor's demolition work shall be replaced by the contractor in kind. New studs required around fixture supports and accessory blocking are the responsibility of the contractor. No major damage due to rot is expected. For bidding purposes, Base bid shall assume 10% of total wall length studs in the Gibson and McAllister restrooms need replacement due to rot. Stud damage due to rot over 10% of wall length shall be handled through a change order request.

14. Sheet A1.5, Detail 4, notes: *"Replace damaged or rotted sheathing in kind."* What percentage should we carry for sheathing replacement?

a. Base bid includes replacement of 100 SF of 4x8x1/2" sheets of OSB with H clips between rafters. Additionally, the base bid shall assume replacement of (6) 2x6x16' roof rafters onto existing. Sheathing and rafters above the base bid amount hall be handled per UP-1 in the bid form, approved prior to work.

15. Regarding Note on sheet A1.7, "Relocate any Existing Electrical Conduit that interferes with installation of brackets". Are the conduits surface mounted or embedded in the CMU? Is there a percentage or a certain number of outlets that need to be moved?
    a. Conduit is exposed surface mount with (4) outlets.
16. Has an asbestos/lead test been completed? Has any needed abatement been completed by Owner?
    a. See attachments for asbestos report.
17. Is owner providing the 12" fly fans noted on sheet A1.2? They are not clarified on the mechanical drawings.
    a. Contractor to provide fly fans. See equipment schedule for specification. Electrical drawings specify switched outlets for fans to plug into.
18. For Gibson Field Restroom on sheet A1.3 it states that the steel door for the concession area gets roomed, but the door schedule doesn't match up or clarify new door to be installed for the concession area? Please clarify.

a. Note 6 on A1.3 refers to removal of the outer steel plate security door. The inner existing hollow metal door is to remain.

19. The new French drain around the McAlister Restroom on sheet A1.4, where does it start and stop, and does it spill out to open ground or tie into an existing storm drain system? Please clarify.

a. The french drain runs along the rear and side of building, and along top of short (12' long +/-) retaining wall. See revised civil plan for connection to existing storm drain.

20. Note on L100 states to relocate any electrical power that interferes with backstop and net posts. There isn't a way to takeoff this quantity. Is there an allowance that can be used for bid purposes?

a. No, bidding contractor should visit the site and include any cost for this relocation in their base bid.

21. Is there any sports netting down the 3rd base line past the back stop netting? Please clarify.

a. There is no additional sports netting down the third base line past the back stop netting terminal post.

22. Asphalt trail 6'-0" and 8'-0" wide for Gibson Park states per detail 1/C200. Please clarify as there is no detail 1/C200.

a. Please see the updated C901 sheet attached.

23. The outflow appears to cross the asphalt path in the right field corner. We will need to demo the asphalt in that area to lay pipe. Is the asphalt repair to be considered in our scope?

a. Any asphalt repair as a result of construction activities is the responsibility of the contractor. Please include this in your base bid.

24. The specs call out that the owner will provide portable bullpen mounds for us to assemble. Is there a set area for the bullpens that they would want permanent Home plates installed as well or do they plan to use temporary plates/inlayed turf if they will be withing the turf profile.

a. Homeplate inlays only.

25. Will there be any permanent rubbers installed in the field on play. I.E. 6" 4 sided or dual stantion? Mostly asking in regards to a 43', 46', 50' which will be used for softball and youth baseball.

    a. No pitching rubbers.

26. Please confirm that the paving shown on L100 does not have 10 mil VB or need to have 6” stone base as shown on 8/D104. Heavy duty paving to follow 7/D100 4” stone base and 1.4 wire.

    a. Yes–the heavy duty concrete sidewalk on L100 to follow 7/D100. Please see the updated D104 sheet attached.

Concord
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High Performance Living
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ASBESTOS SURVEY REPORT

Engineering
Phone (704) 920-5425 ● Fax (704) 786-4521

SAMPLING OF SUSPECT ASBESTOS CONTAINING MATERIALS FOR DEMOLITION

Prepared for:

CITY OF CONCORD

POST OFFICE BOX 308

CONCORD, NORTH CAROLINA 28026-0308

Regarding:

ACADEMY RECREATION CENTER

TWO BUILDINGS @ BALLFIELD

165 ACADEMY AVENUE NW

CONCORD, NORTH CAROLINA 28025

ACES Project No.: 2025-02-005

DATE OF INSPECTION: February 4, 2025

DATE OF REPORT: February 14, 2025

SAMPLING OF SUSPECT ASBESTOS CONTAINING MATERIALS FOR DEMOLITION

Prepared for:

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ACES Project No.: 2025-02-005

DATE OF INSPECTION: February 4, 2025

DATE OF REPORT: FEBRUARY 14, 2025

Prepared by:

DeWitt Whitten, CHMM, REM, CES, REPA, CESCO
General Manager
NC Licensed Asbestos Inspector #10706

Reviewed by:

Steven C. Fender
Managing Partner

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SAMPLING OF SUSPECT ASBESTOS CONTAINING MATERIALS FOR DEMOLITION
ACADEMY RECREATION CENTER – TWO BUILDINGS @ BALLFIELD
165 ACADEMY AVENUE NW
CONCORD, NORTH CAROLINA

1.0 INTRODUCTION

As authorized by Mr. Enrique Blat, P.E. of the City of Concord on January 27, 2025, Allied Consulting and Environmental Services, LLC (ACES) personnel performed a sampling of suspect asbestos containing materials (ACM) for two buildings located on the ballfields present south of the Academy Recreation Center located at 147 Academy Avenue NW in Concord, North Carolina. The surveys were performed on February 4, 2025. The sampling was conducted for the purpose of identifying whether suspect ACM is present in either of the buildings that could be impacted by the proposed demolition of the buildings in the near future.

2.0 GENERAL BACKGROUND INFORMATION

2.1 Asbestos

The term "asbestos" refers to a group of naturally-occurring, fibrous minerals that are commercially mined throughout the world, primarily in Canada, Russia, and South Africa. Asbestos has been used in hundreds of products. Collectively, these products are referred to as asbestos-containing materials (ACMs). Asbestos gained wide use because it is plentiful, readily available, low in cost, and because of its unique properties – fire resistance, high tensile strength, resistance, and insulating characteristics.

As an insulator, asbestos received wide spread use for thermal insulation and condensation control. Asbestos is added to a variety of building materials to enhance strength. It is found in concrete and concrete-like products. Asbestos cement products are used as siding and roofing shingles, wallboard, as corrugated or flat sheets for roofing and partition walls, and as piping. Asbestos has also been added to asphalt, vinyl, and other materials to make products like roofing cements, felts and shingles, exterior siding materials, floor tiles, joint compounds, and mastics/adhesives. Asbestos also proved valuable as a component of acoustical plaster. This material was troweled on or sprayed on to ceilings or walls. As a decorative product, asbestos was frequently used to texture ceilings, walls, and other painted surfaces. Asbestos is still mined commercially and used in many common products, including brake shoes, roofing materials, and flooring products. It is important to realize that commercially available products containing asbestos can still be purchased. It is a common misconception that asbestos is no longer used.

The three most commonly encountered types of asbestos are sometimes referred to by their predominant color. Chrysotile (white) is by far the most frequently used asbestos mineral, constituting approximately 95% of all commercial and industrial applications. Chrysotile fibers

are long and flexible and can be spun or woven into cloth. Amosite (brown) and crocidolite (blue) are used in approximately 4-5% of asbestos-containing products.

The U.S. Environmental Protection Agency promulgated the National Emission Standards for Hazardous Air Pollutants (NESHAP) [40 CFR Part 61], which addresses the application, removal, and disposal of asbestos-containing materials (ACM). Under NESHAP the following categories are defined for asbestos-containing materials:

Friable - When dry, can be crumbled, pulverized, or reduced to powder by hand pressure.
Nonfriable - When dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.
Category I Nonfriable ACM - Packings, gaskets, resilient floor coverings, and asphalt roofing products containing more than 1% asbestos.
Category II Nonfriable ACM – Any material excluding Category I Nonfriable ACM containing more than 1% asbestos.

Regulated Asbestos Containing Material (RACM) – One of the following:

1. Friable ACM
2. Category I Nonfriable ACM that has become friable.
3. Category I Nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading.
4. Category II Nonfriable ACM that has a high probability of becoming, or has become, friable by the forces expected to act on the material in the course of demolition or renovation operations.

Under NESHAP, the following actions are required:

1. Prior to the commencement of demolition or renovation activities, the building owner must inspect the affected facility or part of the facility where the demolition or renovation activities will occur for the presence of asbestos.
2. Remove all RACM from the facility before any activity begins that would break up, dislodge, or similarly disturb the material or preclude access for subsequent removal.
3. RACM need not be removed if:
   a) It is Category I nonfriable ACM that is not in poor condition.
   b) It is on a facility component that is encased in concrete or other similar material and is adequately wet whenever exposed.
   c) It was not accessible for testing and was therefore not discovered until after demolition began and because of the demolition the material cannot be safely removed.

d) It is Category II nonfriable ACM and the probability is low that the material will become crumbled, pulverized, or reduced to powder during demolition.

The Occupational Safety and Health Administration (OSHA) has established three sets of regulatory standards pertaining to asbestos exposure:

29 CFR 1910.1001	General Industry
29 CFR 1926.1101	Construction Industry
29 CFR 1910.134	Respiratory Protection

The construction industry standard covers activities involving asbestos demolition, removal, alteration, repair, maintenance, installation, cleanup, transportation, disposal, and storage. The general industry standard covers other activities where asbestos exposure is possible. Addressed under the OSHA standards are building owner / employer responsibilities regarding the identification of identified or presumed asbestos containing materials (PACM), notification to tenants / employees of the presence of asbestos, employee training, and work procedures.

2.2 Project Scope

The project site includes two buildings located adjacent to the ballfield which is located south of the Academy Recreation Center located at 147 Academy Avenue NW (Figure 1 in Appendix 1). It is our understanding the two existing buildings are to be demolished as a part of the proposed renovation of the Academy Recreation Center in the near future. Building 1 is a single-story, masonry-walled structure that utilizes a concrete slab-on-grade floor slab system. The building covers approximately 330 square feet and utilizes a wood-truss supported roof with asphalt shingles. Building 2 is single-story, masonry-walled that utilized a concrete slab-on-grade floor slab system. The building covers approximately 2,050 square feet and has a wooden slatted wood beam supported roof system covered with metal sheathing. The construction dates of the buildings was not readily available.

3.0 METHODOLOGY

3.1 Asbestos

For this project, a visual survey and limited sampling for specific suspect asbestos containing materials (ACM) was conducted at the above referenced building. ACES personnel submitted a total of fifteen (15) bulk samples of suspect ACM from the buildings that will be impacted by the proposed demolition of the buildings. Samples were collected by a NC Licensed Asbestos Inspector (DeWitt Whitten - #10706) and submitted to a NVLAP Accredited Asbestos Laboratory (EMSL in Charlotte, NC). Samples were analyzed using Polarized Light Microscopy (PLM) by EPA Method 600/R-93/116. For each homogeneous area identified, the laboratory was requested to utilize a “positive stop” protocol during the analysis. A “positive stop” protocol is defined as using the first positive sample as indicative of the presence of asbestos for that particular

homogeneous area. A total of eighteen (18) samples were analyzed by the laboratory. Samples included the following materials: roofing materials, exterior door caulk, siding material, flooring material and associated mastic, drywall and spackling, and window glazing. Please refer to the Sample Location Plans (Figure Nos. 2 & 3) and the Chain of Custody sheet in Appendices 1 and 2, respectively, for the approximate sample locations and the specific materials sampled.

4.0 FINDINGS AND RECOMMENDATIONS

4.1 Non-Asbestos Containing Materials - Findings

None of the fifteen (15) samples of suspect ACM collected on February 4, 2025 and analyzed by EMSL contained asbestos, (i.e. greater than one percent asbestos) as shown in Table 1.

TABLE 1 - SUMMARY OF NUMBER OF SAMPLES ANALYZED WITH ASBESTOS NOT DETECTED			
BUILDING	**NUMBER OF SAMPLES OBTAINED**	**TOTAL NUMBER OF SAMPLES ANALYZED**	**SAMPLES WITH ASBESTOS NOT DETECTED**
Building 1	13	16	16
Building 2	2	2	2

4.2 Asbestos Containing Materials - Findings

Asbestos was not detected in eighteen (18) samples analyzed by EMSL.

4.3 Recommendations - Asbestos Containing Materials

Based upon the analysis of the suspect asbestos containing materials, it does not appear that asbestos containing materials are present in either of the two buildings being considered for demolition. Based upon this information, specialized procedures for removal and disposal of the materials will not be required.

5.0 LIMITATIONS

This report has been prepared for the exclusive use of The City of Concord and their agents for specific application to the two buildings (165 Academy Ave. NW) that are located adjacent to the ballfield located south of the Academy Recreation Center located at 147 Academy Avenue NW in Concord, North Carolina. This report has been prepared in accordance with generally accepted environmental practices. No other warranty, expressed or implied, is made. Our observations are based upon conditions readily visible at the time of our site visit. We have not verified the completeness or accuracy of the information provided by others.

During the site visit, accessible areas were visually surveyed for the presence of suspect asbestos containing materials (ACM). Inaccessible areas, such as above ceilings or behind walls may have not been surveyed; therefore, all ACM may not have been identified. Areas

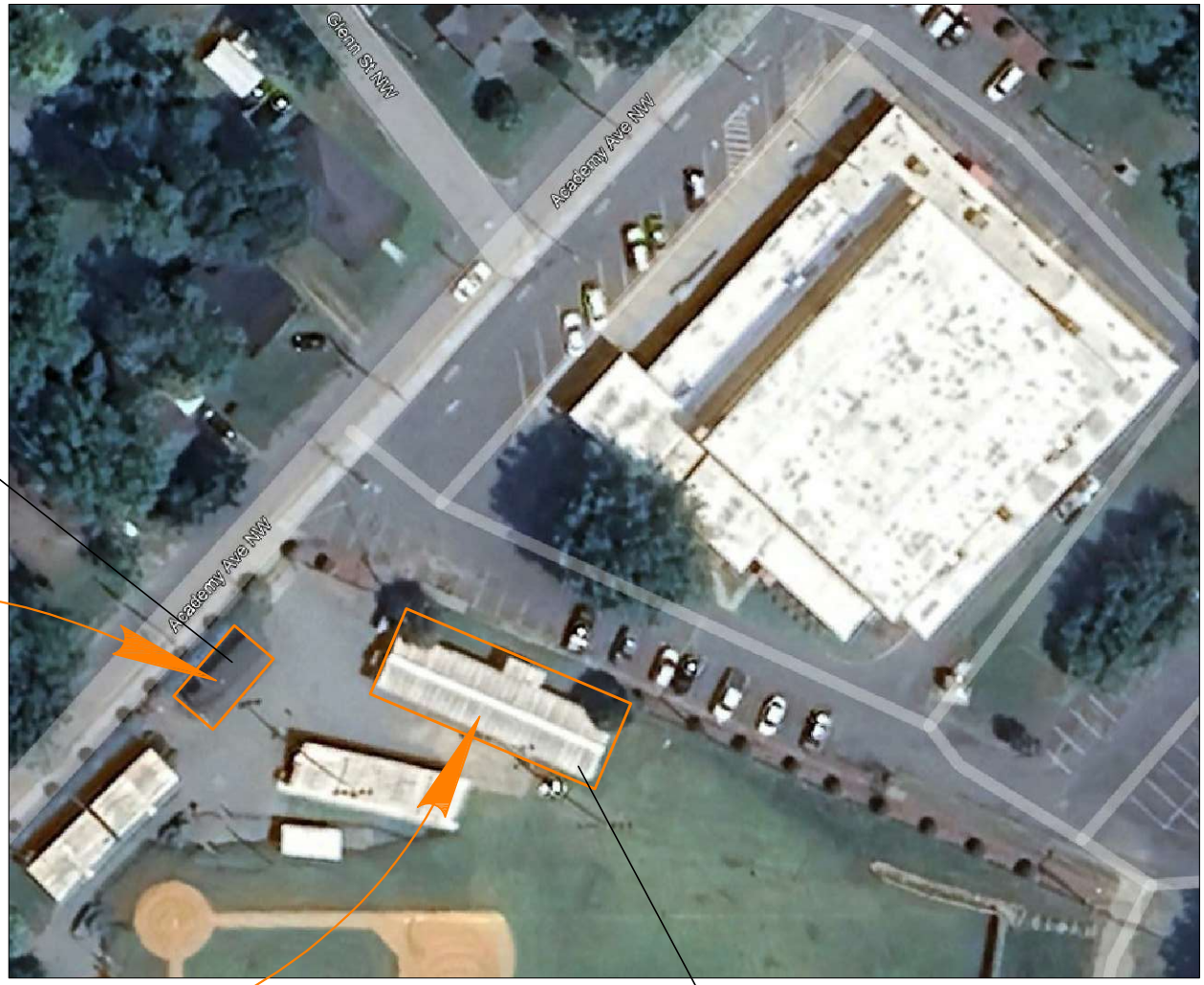
inspected were those designated by the scope of services. As with any similar survey of this nature, actual conditions exist only at the precise locations from which bulk samples were collected. Certain inferences are based on the results of this sampling and related testing to form a professional opinion of conditions in areas beyond those from which the samples were collected. No other warranty, expressed or implied, is made.

Under the scope of services, ACES assumes no responsibility regarding response actions (e.g. O&M Plan, encapsulation, abatement, removal, worker notification, etc.) initiated as a result of these findings. ACES assumes no liability for the duties and responsibilities of the Building Owner with respect to compliance with these regulations. Compliance with regulations and response actions are the sole responsibility of the Building Owner and should be conducted in accordance with local, state and/or federal requirements, and should be performed by appropriately qualified and licensed personnel, as warranted.

ACES, by virtue of providing the services described in this report, does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state, or federal public agencies any conditions at the site that may present a potential danger to public health, safety, or the environment. It is the client's responsibility to notify the appropriate local, state, or federal public agencies as required by law, or otherwise to disclose, in a timely manner, any information that may be necessary to prevent any danger to public health, safety, or the environment.

APPENDIX 1

FIGURES



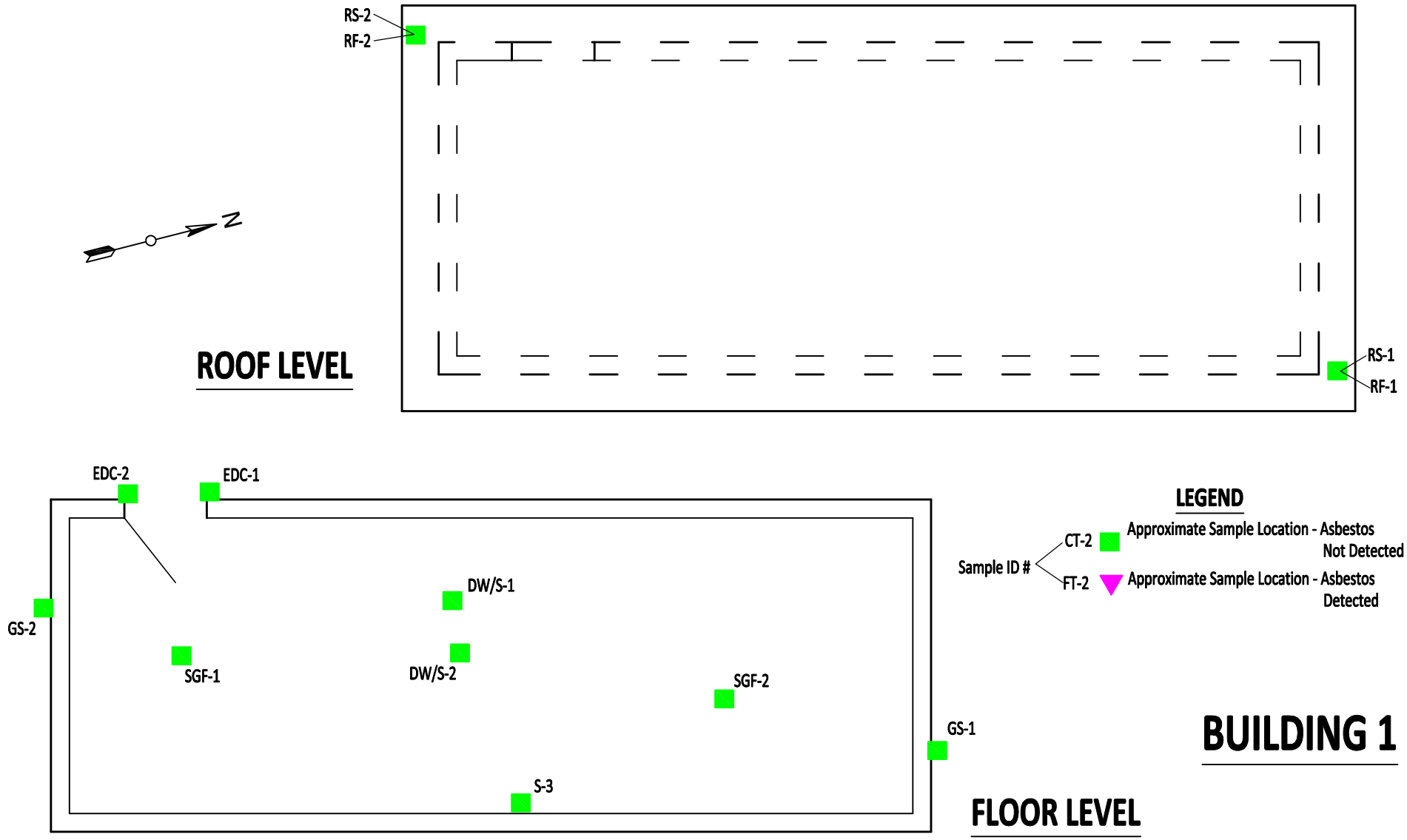
PROJ. NUM.: 2025 - 02 - 005
DATE: February 12, 2025

SITE
LOCATION PLAN

ALLIED CONSULTING &
ENVIRONMENTAL SERVICES
SHELBY, NORTH CAROLINA
P.O. BOX 2426 (28151-2426) 704-600-6255
409 E. MARION ST. (28150) FAX 704-482-5596

ASBESTOS SURVEY FOR DEMOLITION
TWO BUILDINGS @ BALLFIELD
165 ACADEMY AVENUE NW
CONCORD, NORTH CAROLINA

FIGURE
1



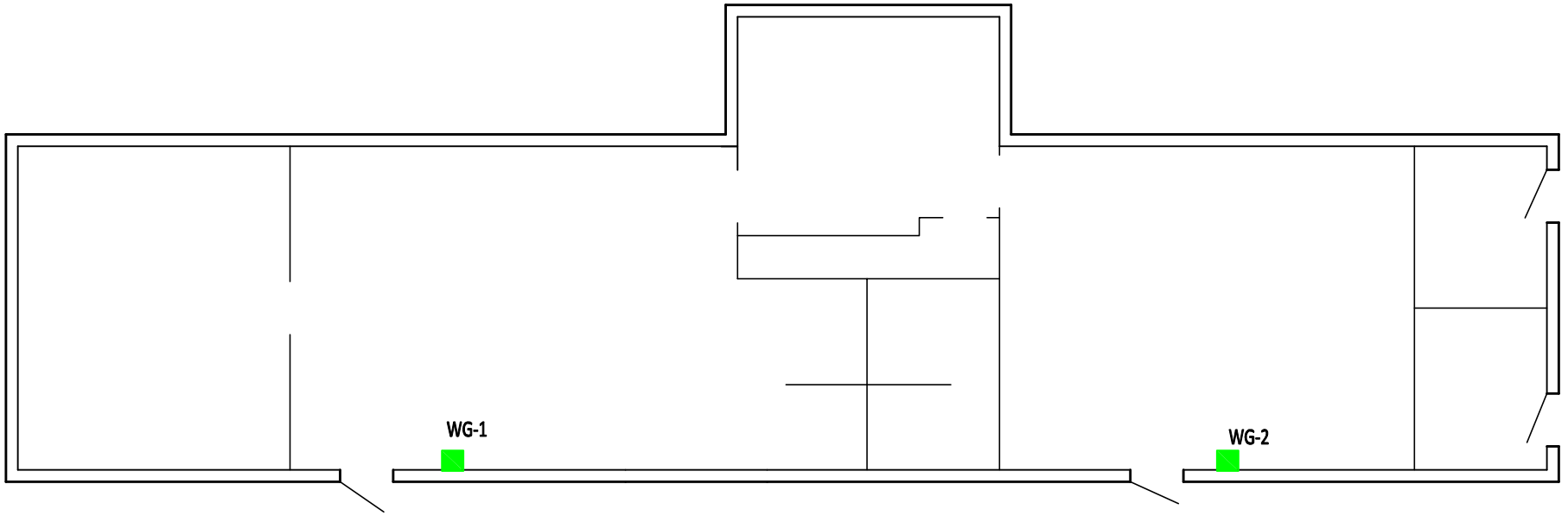
PROJ. NUM.: 2025 - 02 - 005
DATE: February 5, 2025

SITE LOCATION PLAN

ALLIED CONSULTING & ENVIRONMENTAL SERVICES
SHELBY, NORTH CAROLINA
P.O. BOX 2426 (28151-2426) 704-600-6255
409 E. MARION ST. (28150) FAX 704-482-5596

ASBESTOS SURVEY FOR DEMOLITION
TWO BUILDINGS - ACADEMY REC CENTER
165 ACADEMY AVENUE NW
CONCORD, NORTH CAROLINA

FIGURE
2



FLOOR LEVEL

N

LEGEND

Sample ID # CT-2 Approximate Sample Location - Asbestos Not Detected

Sample ID # FT-2 Approximate Sample Location - Asbestos Detected

BUILDING 2

PROJ. NUM.: 2025 - 02 - 005

DATE: February 5, 2025

SITE LOCATION PLAN

ALLIED CONSULTING & ENVIRONMENTAL SERVICES
SHELBY, NORTH CAROLINA
P.O. BOX 2426 (28151-2426) 704-600-6255
409 E. MARION ST. (28150) FAX 704-482-5596

ASBESTOS SURVEY FOR DEMOLITION
TWO BUILDINGS - ACADEMY REC CENTER
165 ACADEMY AVENUE NW
CONCORD, NORTH CAROLINA

FIGURE 3

APPENDIX 2

ASBESTOS ANALYTICAL RESULTS
CHAIN of CUSTODY SHEETS

EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

http://www.EMSL.com / charlottelab@emsl.com

EMSL Order:	412501237
Customer ID:	ALLC25
Customer PO:	
Project ID:	

Attention:	Dewitt Whitten	**Phone:**	(704) 232-0152
	Allied Consulting & Environmental Svs	**Fax:**	
	P.O. Box 2426	**Received Date:**	02/04/2025 1:55 PM
	Shelby, NC 28151	**Analysis Date:**	02/10/2025
		Collected Date:	
Project:	Academy Rec Ctr - Bldg 1 2025-02-05		

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-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
RS-1 *412501237-0001*	Roof - Shingle	Black Fibrous Homogeneous	30% Glass	5% Quartz 20% Ca Carbonate 45% Non-fibrous (Other)	None Detected
RS-2 *412501237-0002*	Roof - Shingle	Gray/Black Fibrous Homogeneous	20% Glass	10% Quartz 15% Ca Carbonate 55% Non-fibrous (Other)	None Detected
RF-1 *412501237-0003*	Roof - Felt	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
RF-2 *412501237-0004*	Roof - Felt	Black Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
GS-1 *412501237-0005*	Gable - Shingle	White/Black Fibrous Heterogeneous	20% Cellulose	5% Quartz 75% Non-fibrous (Other)	None Detected
GS-2 *412501237-0006*	Gable - Shingle	Gray/White/Black Fibrous Homogeneous	40% Cellulose	10% Quartz 5% Ca Carbonate 45% Non-fibrous (Other)	None Detected
EDC-1 *412501237-0007*	Exterior - Door Caulk	Tan Non-Fibrous Homogeneous		30% Quartz 70% Non-fibrous (Other)	None Detected
EDC-2 *412501237-0008*	Exterior - Door Caulk	Tan/Red Non-Fibrous Homogeneous		40% Quartz 60% Non-fibrous (Other)	None Detected
SF-1 *412501237-0009* *Result includes a small amount of inseparable attached mastic.*	Sheet Flooring	Brown/Tan Fibrous Homogeneous	15% Synthetic	10% Ca Carbonate 75% Non-fibrous (Other)	None Detected
SF-2-Sheet Flooring *412501237-0010*	Sheet Flooring	Beige Fibrous Homogeneous	15% Cellulose 5% Synthetic 2% Glass	78% Non-fibrous (Other)	None Detected
SF-2-Mastic *412501237-0010A*	Sheet Flooring	Tan/Yellow Non-Fibrous Homogeneous	<1% Cellulose	2% Quartz 98% Non-fibrous (Other)	None Detected
DW/S-1-Spackle *412501237-0011*	Ceiling - Drywall & Spackling	White Non-Fibrous Homogeneous		70% Ca Carbonate 30% Non-fibrous (Other)	None Detected
DW/S-1-Drywall *412501237-0011A*	Ceiling - Drywall & Spackling	Brown/Gray Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
DW/S-2-Spackle *412501237-0012*	Ceiling - Drywall & Spackling	White Non-Fibrous Homogeneous		80% Ca Carbonate 20% Non-fibrous (Other)	None Detected
DW/S-2-Drywall *412501237-0012A*	Ceiling - Drywall & Spackling	Gray Non-Fibrous Homogeneous	2% Cellulose <1% Glass	98% Non-fibrous (Other)	None Detected
S-3 *412501237-0013*	Ceiling - Spackling	White Non-Fibrous Homogeneous		70% Ca Carbonate 30% Non-fibrous (Other)	None Detected

Initial report from: 02/10/2025 14:11:10

EMSL Analytical, Inc.
10801 Southern Loop Blvd Pineville, NC 28134
Tel/Fax: (704) 525-2205 / (704) 525-2382
http://www.EMSL.com / charlottelab@emsl.com

EMSL Order:	412501237
Customer ID:	ALLC25
Customer PO:	
Project ID:	

Analyst(s)
David Zalewski (8)
Maggie Pasour (8)

Lee Plumley, Laboratory Manager
or Other Approved Signatory

Initial report from: 02/10/2025 14:11:10

OrderID: 412501237

EMSL ANALYTICAL, INC.

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 412501237

PHONE:
FAX:

Company Name : Allied Consulting & Environmental Services		**EMSL Customer ID:**	
Street: Post Office Box 2426		**City:** Shelby	**State/Province:** NC
Zip/Postal Code: 28151	**Country:** USA	**Telephone #:** 704-600-6255	**Fax #:** 704-487-5596
Report To (Name): DeWitt Whitten		**Please Provide Results:** ☐ Fax ☑ Email	
Email Address: dewitt@aces-env.com 2025-02-05		**Purchase Order:**	
Project Name/Number: Academy Rec Ctr - Bldg 1		**EMSL Project ID** *(Internal Use Only)*:	
U.S. State Samples Taken:		**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt	

EMSL-Bill to: ☑ Same ☐ Different - If Bill to is Different note instructions in Comments**
Third Party Billing requires written authorization from third party

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour | ☐ 6 Hour | ☐ 24 Hour | ☐ 48 Hour | ☐ 72 Hour | ☐ 96 Hour | ☒ 1 Week | ☐ 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air ☐ Check if samples are from NY
☐ NIOSH 7400
☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
☒ PLM EPA 600/R-93/116 (<1%)
☐ PLM EPA NOB (<1%)
Point Count
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
Point Count w/Gravimetric
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
☐ NYS 198.1 (friable in NY)
☐ NYS 198.6 NOB (non-friable-NY)
☐ NYS 198.8 SOF-V
☐ NIOSH 9002 (<1%)

TEM – Air ☐ 4-4.5hr TAT (AHERA only)
☐ AHERA 40 CFR, Part 763
☐ NIOSH 7402
☐ EPA Level II
☐ ISO 10312

TEM - Bulk
☐ TEM EPA NOB
☐ NYS NOB 198.4 (non-friable-NY)
☐ Chatfield SOP
☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
Fibers >10µm ☐ Waste ☐ Drinking
All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
☐ Microvac - ASTM D 5755
☐ Wipe - ASTM D6480
☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
☐ PLM EPA 600/R-93/116 with milling prep (<1%)
☐ PLM EPA 600/R-93/116 with milling prep (<0.25%)
☐ TEM EPA 600/R-93/116 with milling prep (<0.1%)
☐ TEM Qualitative via Filtration Prep
☐ TEM Qualitative via Drop Mount Prep
☐ Cincinnati Method EPA 600/R-04/004 – PLM/TEM (BC only)

Other:
☐

☐ Check For Positive Stop – Clearly Identify Homogenous Group

Filter Pore Size (Air Samples): ☐ 0.8µm ☐ 0.45µm

Samplers Name: Dewitt Whitten **Samplers Signature:**

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
RS-1, 2	Roof Shingle		4 Feb 2025 AM
RF-1, 2	Roof Felt		"
GS-1, 2	Gable Shingle		"
EDC-1, 2	Exterior Door Caulk		"
SF-1, 2	Sheet Flooring		"

Client Sample # (s): see above **Total # of Samples:** 13

Relinquished (Client): **Date:** 4 Feb 2025 **Time:** 1351

Received (Lab): CC **Date:** 2/4/25 **Time:** 1355 WI

Comments/Special Instructions:

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*:

01237

PHONE:
FAX:

Acadamy Roc Ct - Boulder / 2025-02-005

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
DW/S-1,2	Cooling - drywall/spackle		4 Feb 2025 AM
S-3	Cooling spackle		"

***Comments/Special Instructions:**

Page 2 of 2 pages

EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

http://www.EMSL.com / charlottelab@emsl.com

EMSL Order:	412501236
Customer ID:	ALLC25
Customer PO:	
Project ID:	

Attention:	Dewitt Whitten	**Phone:**	(704) 232-0152
	Allied Consulting & Environmental Svs	**Fax:**	
	P.O. Box 2426	**Received Date:**	02/04/2025 1:55 PM
	Shelby, NC 28151	**Analysis Date:**	02/10/2025
		Collected Date:	
Project:	Academy Rec Ctr - Bldg 2 2025-02-05		

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-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
WG-1 *412501236-0001*	Front Side Windows - Window Glazing	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
WG-2 *412501236-0002*	Front Side Windows - Window Glazing	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected

Analyst(s)

Kelsie Dwyer (1)

Maggie Pasour (1)

Lee Plumley, Laboratory Manager
or Other Approved Signatory

Initial report from: 02/10/2025 11:43:10

OrderID: 412501236

EMSL ANALYTICAL, INC.

Asbestos Chain of Custody

EMSL Order Number (*Lab Use Only*): 412501236

PHONE:
FAX:

Company Name: Allied Consulting & Environmental Services		**EMSL Customer ID:**	
Street: Post Office Box 2426		**City:** Shelby	**State/Province:** NC
Zip/Postal Code: 28151	**Country:** USA	**Telephone #:** 704-600-6255	**Fax #:** 704-487-5596
Report To (Name): DeWitt Whitten		**Please Provide Results:** ☐ Fax ☑ Email	
Email Address: dewitt@aces-env.com		**Purchase Order:** 2025-02-005	
Project Name/Number: Academy Rec Ctr - Bldg 2		**EMSL Project ID** (*Internal Use Only*):	
U.S. State Samples Taken:		**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt	

EMSL-Bill to: ☑ Same ☐ Different - If Bill to is Different note instructions in Comments**
Third Party Billing requires written authorization from third party

Turnaround Time (TAT) Options* -- Please Check

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☒ 1 Week ☐ 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air ☐ Check if samples are from NY
☐ NIOSH 7400
☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
☒ PLM EPA 600/R-93/116 (<1%)
☐ PLM EPA NOB (<1%)
Point Count
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
Point Count w/Gravimetric
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
☐ NYS 198.1 (friable in NY)
☐ NYS 198.6 NOB (non-friable-NY)
☐ NYS 198.8 SOF-V
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☐ NIOSH 7402
☐ EPA Level II
☐ ISO 10312

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☐ Chatfield SOP
☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
Fibers >10µm ☐ Waste ☐ Drinking
All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
☐ Microvac - ASTM D 5755
☐ Wipe - ASTM D6480
☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
☐ PLM EPA 600/R-93/116 with milling prep (<1%)
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☐ TEM EPA 600/R-93/116 with milling prep (<0.1%)
☐ TEM Qualitative via Filtration Prep
☐ TEM Qualitative via Drop Mount Prep
☐ Cincinnati Method EPA 600/R-04/004 – PLM/TEM (BC only)

Other:
☐

☐ Check For Positive Stop – Clearly Identify Homogenous Group

Filter Pore Size (Air Samples): ☐ 0.8µm ☐ 0.45µm

Samplers Name: Dewitt Whitten **Samplers Signature:** [signature]

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
WG-1, 2	Windows Glass - FRONT 5000 WINDOWS		4 Feb 2025 AM

Client Sample # (s): see above **Total # of Samples:** 2

Relinquished (Client): [signature] **Date:** 4 Feb 2025 **Time:** 1357

Received (Lab): [signature] **Date:** 2/4/25 **Time:** 1:55 WI

Comments/Special Instructions:

APPENDIX 3

LOG OF PHOTOGRAPHS

1. Building 1 located adjacent to ballfield Academy Recreation Center in Concord, North Carolina

2. Building 1 located adjacent to ballfield Academy Recreation Center in Concord, North Carolina

3. Suspect ACM – roofing materials – no asbestos identified

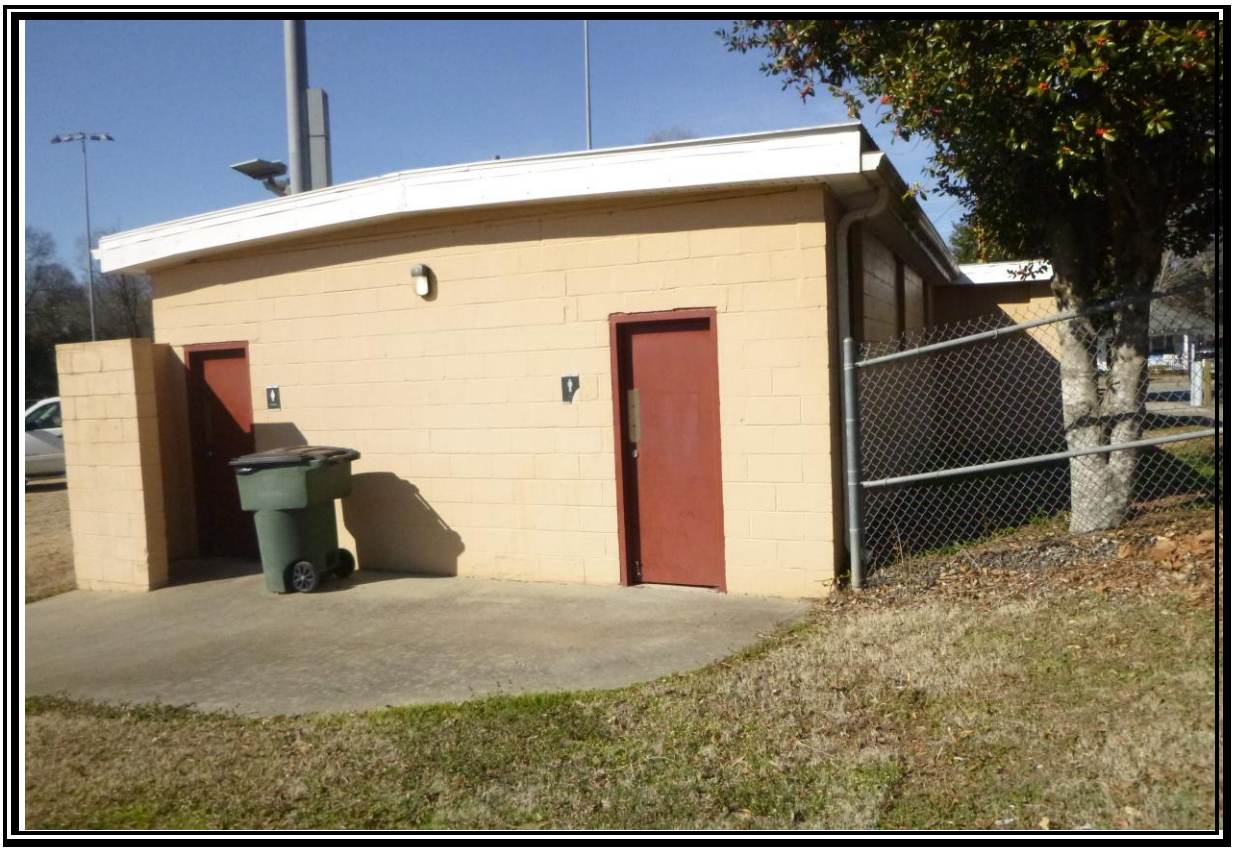
4. Suspect ACM – gable shingles – no asbestos identified

5. Suspect ACM – exterior door caulk – no asbestos identified

6. Suspect ACM – flooring materials – no asbestos identified

7. Suspect ACM – ceiling materials (drywall & spackling) – no asbestos identified

8. Building 2 located adjacent to ballfield Academy Recreation Center in Concord, North Carolina



9. Building 2 located adjacent to ballfield Academy Recreation Center in Concord, North Carolina

10. Suspect ACM – window glazing – no asbestos identified

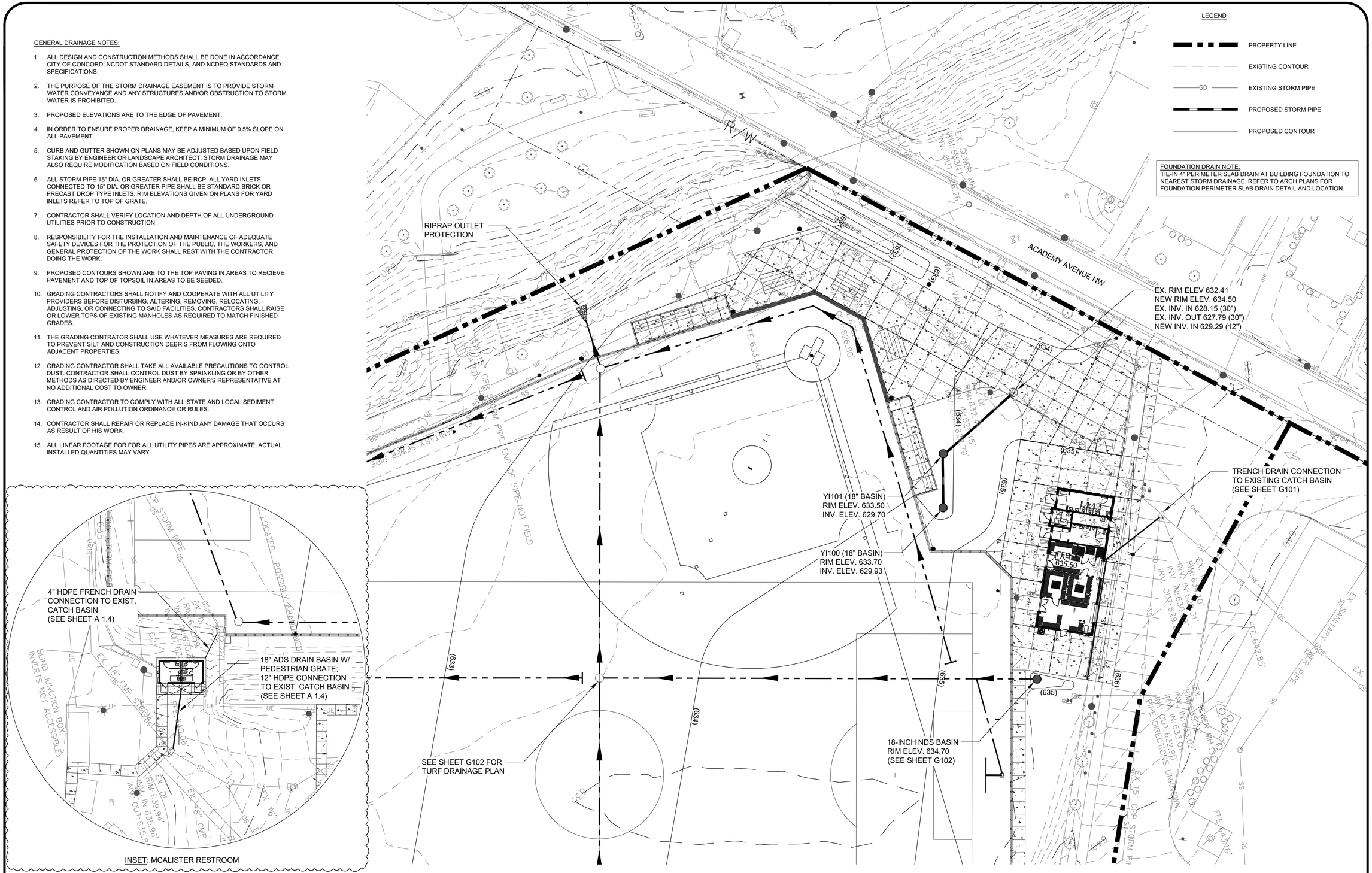
Concord
NORTH CAROLINA
High Performance Living
635 Alfred Brown Jr. Court SW, P.O. Box 308, Concord, NC 28026 – www.concordnc.gov

UPDATED PLAN SHEETS

Engineering
Phone (704) 920-5425 ● Fax (704) 786-4521

GENERAL DRAINAGE NOTES:

1. ALL DESIGN AND CONSTRUCTION METHODS SHALL BE DONE IN ACCORDANCE CITY OF CONCORD, NCDOT STANDARD DETAILS, AND NCDEQ STANDARDS AND SPECIFICATIONS.
2. THE PURPOSE OF THE STORM DRAINAGE EASEMENT IS TO PROVIDE STORM WATER CONVEYANCE AND ANY STRUCTURES AND/OR OBSTRUCTION TO STORM WATER IS PROHIBITED.
3. PROPOSED ELEVATIONS ARE TO THE EDGE OF PAVEMENT.
4. IN ORDER TO ENSURE PROPER DRAINAGE, KEEP A MINIMUM OF 0.5% SLOPE ON ALL PAVEMENT.
5. CURB AND GUTTER SHOWN ON PLANS MAY BE ADJUSTED BASED UPON FIELD STAKING BY ENGINEER OR LANDSCAPE ARCHITECT. STORM DRAINAGE MAY ALSO REQUIRE MODIFICATION BASED ON FIELD CONDITIONS.
6. ALL STORM PIPE 15" DIA. OR GREATER SHALL BE RCP. ALL YARD INLETS CONNECTED TO 15" DIA. OR GREATER PIPE SHALL BE STANDARD BRICK OR PRECAST DROP TYPE INLETS. RIM ELEVATIONS GIVEN ON PLANS FOR YARD INLETS REFER TO TOP OF GRATE.
7. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
8. RESPONSIBILITY FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SAFETY DEVICES FOR THE PROTECTION OF THE PUBLIC, THE WORKERS, AND GENERAL PROTECTION OF THE WORK SHALL REST WITH THE CONTRACTOR DOING THE WORK.
9. PROPOSED CONTOURS SHOWN ARE TO THE TOP PAVING IN AREAS TO RECIEVE PAVEMENT AND TOP OF TOPSOIL IN AREAS TO BE SEEDED.
10. GRADING CONTRACTORS SHALL NOTIFY AND COOPERATE WITH ALL UTILITY PROVIDERS BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING, OR CONNECTING TO SAID FACILITIES. CONTRACTORS SHALL RAISE OR LOWER TOPS OF EXISTING MANHOLES AS REQUIRED TO MATCH FINISHED GRADES.
11. THE GRADING CONTRATOR SHALL USE WHATEVER MEASURES ARE REQUIRED TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES.
12. GRADING CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING OR BY OTHER METHODS AS DIRECTED BY ENGINEER AND/OR OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST TO OWNER.
13. GRADING CONTRACTOR TO COMPLY WITH ALL STATE AND LOCAL SEDIMENT CONTROL AND AIR POLLUTION ORDINANCE OR RULES.
14. CONTRACTOR SHALL REPAIR OR REPLACE IN-KIND ANY DAMAGE THAT OCCURS AS RESULT OF HIS WORK.
15. ALL LINEAR FOOTAGE FOR FOR ALL UTILITY PIPES ARE APPROXIMATE; ACTUAL INSTALLED QUANTITIES MAY VARY.



North Carolina 811
www.ncc811.org

CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-632-4949) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

GRAPHIC SCALE
20 0 10 20 40
1 inch = 20 ft.

ROPER CIVIL ENGINEERING
3007 Hinsdale Street
Charlotte, NC 28210
(T) 704.582.3751

NORTH CAROLINA PROFESSIONAL SEAL 24914 ENGINEER MATTHEW G. ROPER
7-16-25

ROPER CIVIL ENGINEERING CORPORATE SEAL P-1266 NORTH CAROLINA

REVISIONS:
- 2.14.25 PLAN REVIEW COMMENTS
- 6.09.25 BID SET
- 7.16.25 ADDENDUM 1

OWNER:
CITY OF CONCORD
35 CABARRUS AVE. W
CONCORD, NORTH CAROLINA

ACADEMY COMPLEX RENOVATIONS
165 ACADEMY AVE. NW
CONCORD, NORTH CAROLINA

SCALE: 1" = 20'-0"
DATE: 06-09-25
SHEET NAME: STORM DRAINAGE PLAN
SHEET NO: C300

CONCORD GENERAL UTILITY NOTES:

1. PER CITY OF CONCORD CODE OF ORDINANCE CHAPTER 62, ARTICLE 3, SECTION 62-98 (2) ALL MATERIALS, EQUIPMENT, LABOR, AND WORKMANSHIP ASSOCIATED WITH PUBLIC WATER AND /OR SEWER EXTENSION AND/OR MODIFICATION SHALL BE IN ACCORDANCE WITH AND SUBJECT TO THE WATER AND SEWER AUTHORITY OF CABARRUS COUNTY'S STANDARD SPECIFICATIONS; THE CITY OF CONCORD'S ORDINANCES, POLICIES, AND STANDARD SPECIFICATIONS, AND THE NORTH CAROLINA ADMINISTRATIVE CODE FOR WASTEWATER COLLECTION AND WATER DISTRIBUTION SYSTEMS. IN THE EVENT OF CONFLICT BETWEEN THE WATER AND SEWER AUTHORITY OF CABARRUS COUNTY'S STANDARD SPECIFICATIONS;THE CITY OF CONCORD'S ORDINANCES, POLICIES, AND STANDARD SPECIFICATIONS, OR THE NORTH CAROLINA ADMINISTRATIVE CODE, THE MORE RESTRICTIVE REQUIREMENTS SHALL APPLY.

2. REVIEW AND APPROVAL OF THE PLANS DOES NOT RELIEVE THE OWNER, CONTRACTOR, OR DEVELOPER FROM MEETING THE REQUIREMENTS OF THE CITY OF CONCORD'S OR CABARRUS COUNTY ORDINANCES, POLICIES, AND STANDARD SPECIFICATIONS, (AS APPLICABLE), CONCORD WATER & SEWER POLICIES AND TECHNICAL SPECIFICATIONS, THE "STANDARD SPECIFICATION FOR WASTEWATER COLLECTION & WASTE DISTRIBUTION FOR CABARRUS COUNTY (WSACC MANUAL) AND ANY OTHER LOCAL, STATE, AND FEDERAL REGULATIONS & APPROVALS

3 THE CONTRACTOR MUST CONTACT THE CITY OF CONCORD ENGINEERING CONSTRUCTION MANAGER AT 704-920-5425 AT LEAST 24-HOURS PRIOR TO INITIATING ANY CONSTRUCTION ACTIVITY.

4. THE EXISTING WATER MAIN VALVE RIMS AND STEMS AND THE EXISTING SEWER MAIN MANHOLES RIMS ARE TO BE RAISED OR LOWERED TO FINAL GRADE, AS APPLICABLE AND AT LEAST 3-FT OF GROUND COVER IS TO BE MAINTAINED OVER THE EXISTING UTILITIES AT ALL TIMES PER THE CITY OF CONCORD CODE OF ORDINANCE CHAPTER 62, ARTICLE 3, SECTION 62-98.

5. CONCORD CODE OF ORDINANCES CHAPTER 62, ARTICLE II WATER AND SEWER SERVICE, SEC. 62-34(I) - THE CUSTOMER SHALL BE RESPONSIBLE FOR INSTALLING THE NECESSARY APPROVED DEVICE(S) TO MAKE ANY ADJUSTMENTS TO THE WATER PRESSURE SUPPLIED BY CONCORD UTILITIES AND SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL SUCH DEVICES.

6. PER THE CITY OF CONCORD CODE OF ORDINANCE CHAPTER 62, ARTICLE 3, SECTION 62-98- THE FOLLOWING MINIMUM SEPARATIONS MUST BE INDICATED, UNLESS OTHERWISE APPROVED BY THE CITY:

- A MINIMUM HORIZONTAL SEPARATION OF FIVE FEET SHALL BE MAINTAINED BETWEEN ANY TYPE OF MAINTENANCE OBSTRUCTION AND THE CITY'S WATER DISTRIBUTION LINES, WASTEWATER COLLECTION LINES, AND ASSOCIATED APPURTENANCES, UNLESS AN EXCEPTION IS GRANTED. GREATER SEPARATION DISTANCES MAY BE REQUIRED AS SPECIFIED BY FEDERAL, STATE, OR LOCAL REGULATIONS.
- A MINIMUM VERTICAL SEPARATION OF TWO FEET SHALL BE MAINTAINED BETWEEN ANY TYPE OF MAINTENANCE OBSTRUCTION, INCLUDING BUT NOT LIMITED TO ANY OTHER UTILITY PROVIDER'S LINES OR EQUIPMENT, AND THE CITY WATER DISTRIBUTION LINES, WASTEWATER COLLECTION LINES, AND ASSOCIATED APPURTENANCES, UNLESS AN EXCEPTION IS GRANTED. IF AN EXCEPTION IS GRANTED, A MINIMUM VERTICAL SEPARATION OF ONE FOOT MUST BE MAINTAINED AND THE CITY WATER DISTRIBUTION LINES, WASTEWATER COLLECTION LINES, AND ASSOCIATED APPURTENANCES SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE OR AN APPROVED FERROUS MATERIAL WITH JOINTS THAT ARE EQUIVALENT TO POTABLE WATER MAIN STANDARDS FOR A DISTANCE OF TEN FEET ON EITHER SIDE OF THE POINT OF CROSSING. GREATER SEPARATION DISTANCES MAY BE REQUIRED AS SPECIFIED BY FEDERAL,STATE, OR LOCAL REGULATIONS.
- A MINIMUM HORIZONTAL SEPARATION OF TEN FEET SHALL BE MAINTAINED BETWEEN THE CITY WATER DISTRIBUTION SYSTEM AND WASTEWATER COLLECTION LINES, AND ASSOCIATED APPURTENANCES,UNLESS AN EXCEPTION IS GRANTED.

UTILITY NOTES:

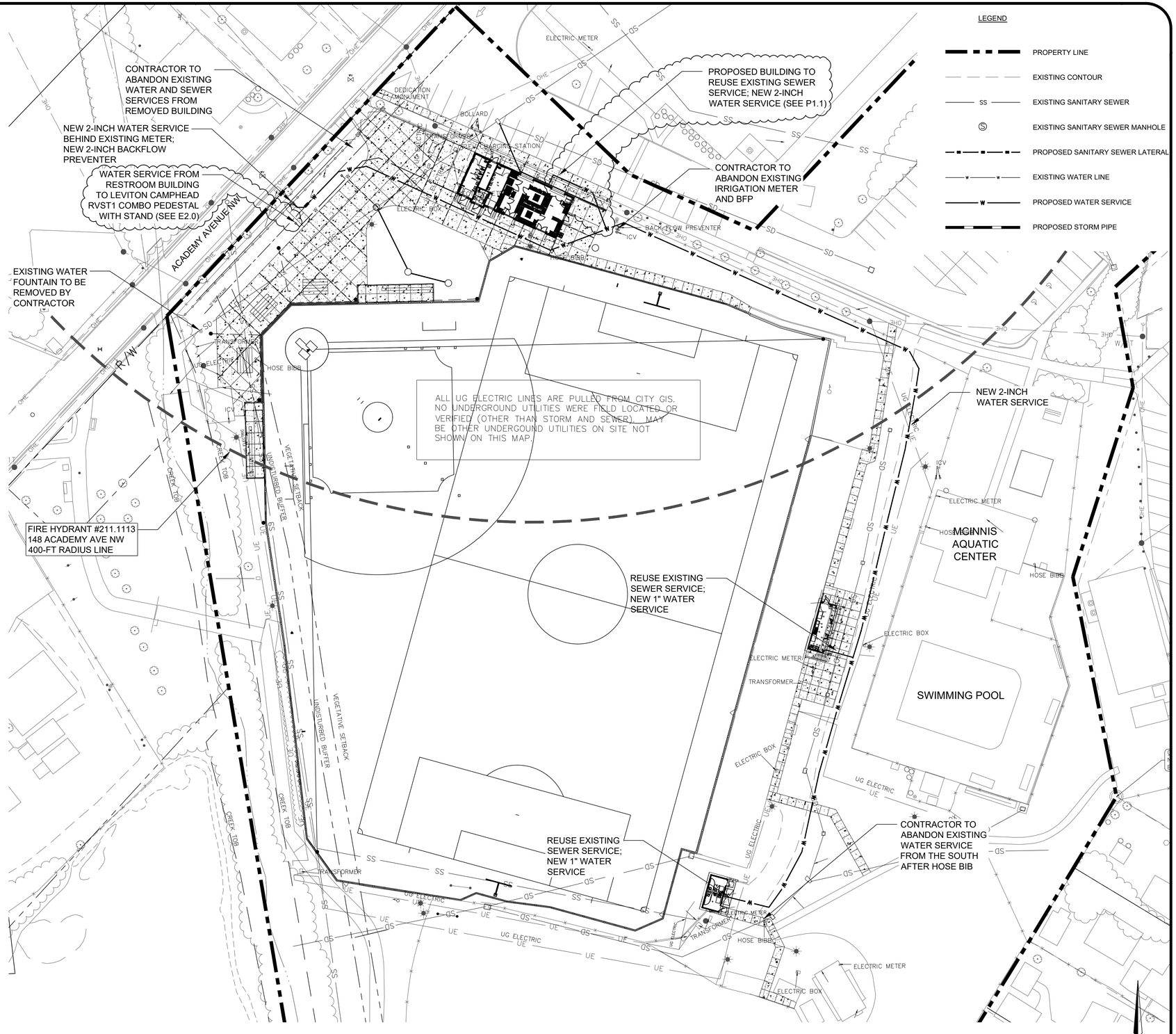
1. SEWER AND WATER SYSTEMS ARE TO BE CONSTRUCTED IN GENERAL ACCORDANCE WITH ALL CITY OF CONCORD AND NCDENR REGULATIONS, REFERENCE SEWER AND WATER STANDARDS AND PROJECT SPECIFICATIONS.
2. ALL APPLICABLE WATER/SEWER IMPACT AND METER FEES MUST BE PAID BEFORE ANY BUILDING PERMITS ARE ISSUED.
3 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF LOCATING AND MARKING ALL EXISTING UNDERGROUND UTILITIES.
4. THE CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ANY UTILITY DAMAGED DURING CONSTRUCTION.
5. THERE SHALL BE NO TAPS, PIPING BRANCHES, UNAPPROVED BYPASS PIPING, HYDRANTS, FIRE DEPARTMENT CONNECTION POINTS, OR OTHER WATER USING APPURTENANCES CONNECTED TO THE SUPPLY LINE BETWEEN ANY WATER METER AND THE REQUIRED BACKFLOW PREVENTER.
6. ALL WORK PERFORMED ON THE EXISTING SEWER LINE FOR THE INSTALLATION OF SEWER LATERALS SHALL BE COMPETED IN OFF-PEAK HOURS AND IN A MANNER SO AS NOT TO DISRUPT SERVICE TO THE SURROUNDING AREA.
7. A MINIMUM OF 36-INCHES OF GROUND COVER SHALL BE MAINTAINED OVER EXISTING AND PROPOSED UTILITIES AT ALL TIMES PER CITY OF CONCORD CODE OF ORDINANCE CHAPTER 62, ARTICLE 3, SECTION 62-98.
8. EXISTING WATER MAIN VALVE RIMS AND STEMS, AND EXISTING SEWER MANHOLE RIMS ARE TO BE ADJUSTED TO THE FINAL GRADE, AS APPROPRIATE.
9. EACH REQUIRED BACKFLOW PREVENTER ASSEMBLY IS REQUIRED TO BE TESTED BY A CITY OF CONCORD APPROVED CERTIFIED TESTER PRIOR TO PLACING THE WATER SYSTEM IN SERVICE.

UTILITY SERVICE NOTES:

1. PROPOSED SERVICES ARE TO BE INSTALLED BY THE DEVELOPER'S CONTRACTOR IN COORDINATION WITH THE DESIGNATED CITY OF CONCORD CONSTRUCTION INSPECTOR.
2. EXISTING SERVICES NOT PROPOSED FOR REUTILIZATION SHALL BE ABANDONED BY THE DEVELOPER'S CONTRACTOR AT THE PUBLIC MAIN AND ANY VOIDS FILLED WITH THE APPLICABLE STRUCTURAL FILL IN COORDINATION WITH THE DESIGNATED CITY OF CONCORD CONSTRUCTION INSPECTOR.

North Carolina 811 www.ncc811.org

CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-632-4949) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED.
CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.



ROPER CIVIL ENGINEERING
3007 Hinsdale Street
Charlotte, NC 28210
(T) 704.582.3751

NORTH CAROLINA PROFESSIONAL SEAL 24914 ENGINEER MATTHEW G. ROPER
7-8-25

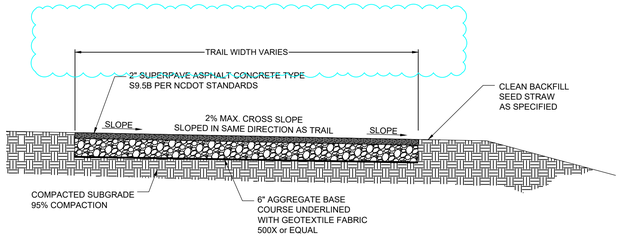
ROPER CIVIL ENGINEERING CORPORATE SEAL P-1266 NORTH CAROLINA

REVISIONS:
- 2.14.25 PLAN REVIEW COMMENTS
- 6.09.25 BID SET
- 7.16.25 ADDENDUM 1

OWNER:
CITY OF CONCORD
35 CABARRUS AVE. W
CONCORD, NORTH CAROLINA

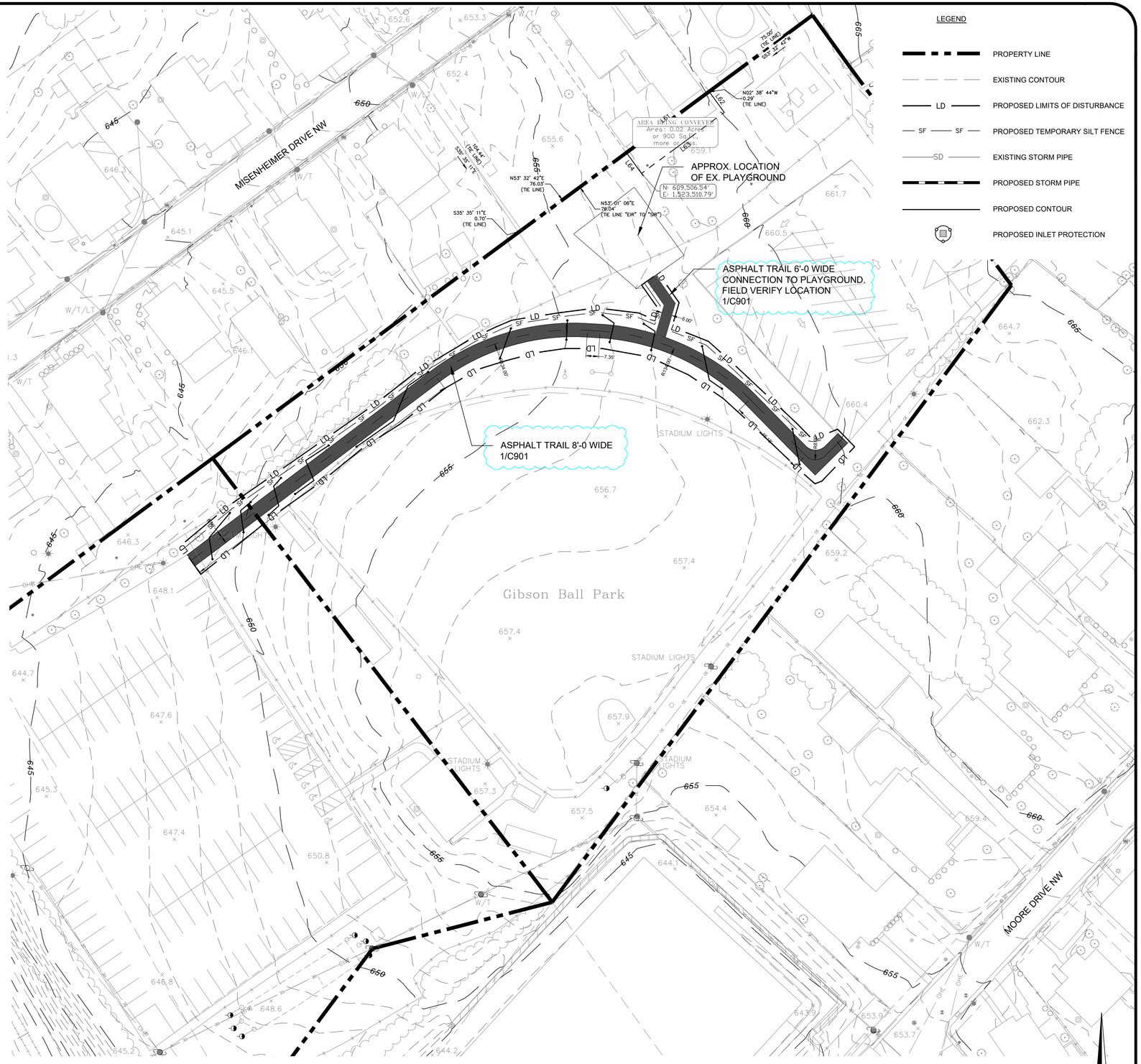
ACADEMY COMPLEX RENOVATIONS
165 ACADEMY AVE. NW
CONCORD, NORTH CAROLINA

SCALE: 1" = 30'-0"
DATE: 06-09-25
SHEET NAME: UTILITY PLAN
SHEET NO: C400



NOTES:
1. CONTRACTOR IS RESPONSIBLE FOR RE-ESTABLISHING ALL SLOPES DISTURBED BY CONSTRUCTION.
2. SIDE SLOPES SHALL NOT EXCEED 3:1. CUT & FILL SLOPES SHALL TIE INTO EXISTING SLOPES TO CREATE AN EVEN TRANSITION.
3. CROSS SLOPE TYPICALLY TO LOW SIDE BUT CROSS SLOPE TO INSIDE OF DOWNHILL CURVES, WITH GRADUAL TRANSITIONS BETWEEN ANY CROSS SLOPE DIRECTION CHANGES.

1 ASPHALT TRAIL
NOT TO SCALE



FITFIELDS
314 TOM HALL ST.
FORT MILL, SC
803.981.4330
FITFIELDS.com

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT No. 1589 DAVID A. BOOK

NORTH CAROLINA CERTIFICATE OF AUTHORIZATION FITFIELDS, PLLC COA# 389

REVISIONS:
6.09.25 BID SET
7.22.25 ADDENDUM 1

OWNER:
CITY OF CONCORD
35 CABARRUS AVE. W
CONCORD, NORTH CAROLINA

GIBSON FIELD TRAIL CONNECTOR
323 MISENHEIMER DR. NW
CONCORD, NORTH CAROLINA

SCALE: 1" = 30'-0"
DATE: 06-09-25
SHEET NAME: LAYOUT AND GRADING PLAN
SHEET NO: C901

LAYOUT NOTES:

1. ALL IMPROVEMENTS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF CONCORD, NC, AND STATE OF NORTH CAROLINA STANDARDS.

2. SHOULD ANY DISCREPANCIES BE FOUND IN THE FIELD THE CONTRACTOR SHALL CONTACT THE OWNER AND LANDSCAPE ARCHITECT PRIOR TO PROCEEDING.

3. ALL DIMENSIONS ARE TO FACE OF CURB, EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

4. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM ALL REGULATORY AUTHORITIES.

5. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY EXISTING ITEM AND/OR MATERIAL INSIDE OR OUTSIDE THE CONSTRUCTION LIMITS.

6. THE CONTRACTOR IS CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UTILITIES MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO BEGINNING

7. ELECTRICAL, TELEPHONE, AND CABLE LINES AND POLES TO BE ELIMINATED OR RELOCATED, SHALL BE COORDINATED WITH CITY OF CONCORD AND ASSOCIATED UTILITY PROVIDERS.

8. DO NOT SCALE DRAWING FOR ACTUAL DIMENSIONS AS IT IS A REPRODUCTION AND IS SUBJECT TO DISTORTION.

9. CONTRACTOR SHALL MAINTAIN THE SITE IN A SAFE AND CLEAN MANNER.

10. STAKE LAYOUT PRIOR TO CONSTRUCTION. VERIFY LOCATIONS WITH LANDSCAPE ARCHITECT OR OWNER

LEGEND

- HYDRANT
- WATER METER
- UTILITY PEDESTAL
- FLAG POLE
- ELECTRIC POLE
- LIGHT
- STORM CLEANOUT
- STORM DRAIN MANHOLE
- SIGN
- EXISTING CHAIN LINK FENCE
- CREEK
- OVERHEAD ELECTRIC
- TREES
- SHRUBS
- PROPOSED FENCE (6' HT.) (NOT TO SCALE-ILLUSTRATIVE PURPOSES ONLY)
- PROPOSED NETTING (14' HT.) ABOVE FENCE (6' HT.) (NOT TO SCALE-ILLUSTRATIVE PURPOSES ONLY)
- PROPOSED GATE LOCATION
- PROPOSED CONCRETE
- PROPOSED NATIVE GRASS
- PROPOSED GREEN TURF
- PROPOSED BROWN TURF
- PROPOSED SOD
- PROPOSED HEAVY DUTY CONCRETE

GENERAL INFORMATION:

1.	PROJECT NAME:	ACADEMY COMPLEX RENOVATIONS
2.	OWNER:	CITY OF CONCORD 35 CABARRUS AVE. W CONCORD, NC 28025
3.	SITE ADDRESS:	165 ACADEMY AVE. NW CONCORD, NC 28025
4.	PIN	56206805220000
5.	D/B REFERENCE	10965/0147
6.	PARCEL ACRES	8.447 AC
7.	PROJECT ACRES	3.6 AC
8.	ZONING	O-I
9.	SETBACKS	10' FRONT/STREET
10.	MAX IMPERVIOUS	70%
11.	PROPOSED IMPERVIOUS	23.9%
12.	MAX HEIGHT	35'
13.	NEW RESTROOM/STORAGE BLDG SF	1,582

14. THE PARCEL IS NOT LOCATED IN A FEMA FLOOD ZONE - FEMA MAP NO. 3710562000K DATED NOVEMBER 16, 2018.
15. EXISTING SURVEY AND INFORMATION PROVIDED BY AVIOIMAGE MAPPING SERVICES, INC.

ADJACENT LAND OWNER
CITY OF CONCORD
PIN 5620-58-6555
REAL ID: 12-021-0014.00
DEEP BOOK 14721, Page 227

TIE BACK POST BACK STOP NETTING SYSTEM - 1/D104
DECORATIVE FENCE 155 LF 2/D102
DECORATIVE FENCE SINGLE GATE 4/D102
WOODED AREA TO REMAIN
HEAVY DUTY CONCRETE SIDEWALK 7/D100
10' SETBACK LINE
POWER PEDESTAL SEE ELEC.
ACADEMY AVE NW
WEBB PRESS BOX SEE A1.5
5 ROW BLEACHERS TYP. OWNER PROVIDES
TIE BACK POST BACK STOP NETTING SYSTEM 1/D104
BRICK COLUMNS AND DECORATIVE FENCE 16' DOUBLE WIDE GATE 1,2,4/D102
CONTRACTOR TO RELOCATE ANY ELECTRICAL POWER THAT INTERFERES WITH BACKSTOP AND NET POST FOOTERS
SINGLE GATE 3/D101
DUGOUTS 2/D103
FENCE IN CURB 5/D101
BACKSTOP WALL 3/D103
POWER PEDESTAL SEE ELEC.
CONCRETE SIDEWALK 5/D100
EXPANSION JOINT TYP.
SPORTS NETTING (75 LF) 4/D101 FROM BACKSTOP POLE TO DEFLECTION ANGLE IN CURB.
TURF NAILER ATTACHED TO DUGOUT SLAB AND BACKSTOP WALL
SINGLE GATE 3/D101
HOME PLATE 2/D105
HOME PLATE AREA 2/D106
DECORATIVE FENCE 58 LF 2/D102
CHAIN LINK FENCE 1/D101 (160 LF)
TERMINAL POST BACK STOP NETTING SYSTEM - 1/D104
PITCHING MOUND 4/D105
HEAVY DUTY CONCRETE SIDEWALK 7/D100 (CONCOURSE AREA)
PITCHING MOUND TICK MARKS: 43' - 0" 46' - 0" 50' - 0" 60' - 6"
DUGOUTS 2/D103
BASEBALL INFIELD 1/D106
STORAGE/RESTROOM BUILDING (SEE ARCH. DRAWINGS)
NEW RESTROOM SEE A1.0
FOUL POLE 4/D105 (303 LF to HP)
END POINT FOR 20' HT SPORTSNETTING ABOVE 6' HT FENCE
ZOYSIA ZENNETH SOD AREA
EXPANSION JOINT AROUND BLDG
TERMINAL POST BACK STOP NETTING SYSTEM 1/D104 TIED TO TOP OF FENCE
BULLPEN INLAY
PROVIDE FULL SIZE FOOTBALL TIC MARKS (GRAY) AT EACH 10 YARD LINE INTERVAL (PAINTED BY OWNER)
SOCCER FIELD 4/D108
BASE, TYP. 1/D105
SINGLE GATE 3/D101
DOUBLE GATE 16' WIDE 2/D101
U10 SOCCER FIELD 4/D109
BULLPEN INLAY
FLAG POLE 5/D102
DOUBLE GATE 16' WIDE 2/D101
FENCE IN CURB 6/D101
BEGINNING POINT OF STANDARD CONCRETE SIDEWALK EAST TO FOUL POUL
SCOREBOARD TO BE RELOCATED
FOUR COLOR LOGO RED, WHITE, BLACK AND GRAY
FENCE IN CURB 5/D101
DOUBLE GATE 16' WIDE 2/D101 CONNECT TO BLDG AND EX. CLF
EX. CHAIN LINK FENCE TO REMAIN
FIELD GOAL POST 1/D107
FIELD GOAL POST 1/D107
FENCE IN CURB 6/D101
SINGLE GATE 3/D101
EX. CHAIN LINK FENCE TO REMAIN
PLANT HILLSIDE WITH A NO MOW NATIVE GRASS SEED MIX ERNST SEED MIX (ERNMX-310) OR APPROVED EQUAL (15 LBS REQUIRED)
SINGLE GATE 3/D101
CF FINISH POINT 18" FENCE IN CURB 412 LF (6/D101)
FENCE IN CURB 5/D101
SINGLE GATE 3/D101
SINGLE GATE 3/D101
RENOVATED RESTROOM BUILDING SEE A1.4
RENOVATED CONCESSION/ PRESS BOX BUILDING SEE A1.2
FENCE POSTS ON WALL TO REMAIN, NEW BLACK PVC FABRIC AND PAINT EX. POSTS BLACK
FOUL POLE 4/D105 (315 LF to HP)
SIDEWALK CONNECTION TO EXISTING BLEACHERS 5/D100
McALISTER PRESS BOX SEE A1.4
EX. GRAVEL ROAD TO REMAIN
SIDEWALK 5/D100
GRAPHIC SCALE
1 inch = 20 ft.

North Carolina 811 www.nc811.org

CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-632-4949) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

FITFIELDS
314 TOM HALL ST.
FORT MILL, SC
803.981.4330
FITFIELDS.com

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT No. 1589 DAVID A. BOOK

NORTH CAROLINA BOARD OF LANDSCAPE ARCHITECTURAL EXAMINERS FITFIELDS, PLLC COA# 389 CERTIFICATE OF AUTHORIZATION

REVISIONS:
- 2.14.25 PLAN REVIEW COMMENTS
- 3.21.25 PLAN REVIEW COMMENTS
- 6.09.25 BID SET
- 7.22.25 ADDENDUM 1

OWNER:
CITY OF CONCORD
35 CABARRUS AVE. W
CONCORD, NORTH CAROLINA

ACADEMY COMPLEX RENOVATIONS
165 ACADEMY AVE. NW
CONCORD, NORTH CAROLINA

SCALE: 1" = 20'-0"

DATE: 06-09-25

SHEET NAME: LAYOUT PLAN

SHEET NO: L100

LAYOUT NOTES:

1. ALL IMPROVEMENTS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF CONCORD, NC, AND STATE OF NORTH CAROLINA STANDARDS.

2. SHOULD ANY DISCREPANCIES BE FOUND IN THE FIELD THE CONTRACTOR SHALL CONTACT THE OWNER AND LANDSCAPE ARCHITECT PRIOR TO PROCEEDING.

3. ALL DIMENSIONS ARE TO FACE OF CURB, EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

4. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM ALL REGULATORY AUTHORITIES.

5. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY EXISTING ITEM AND/OR MATERIAL INSIDE OR OUTSIDE THE CONSTRUCTION LIMITS.

6. THE CONTRACTOR IS CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UTILITIES MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO BEGINNING

7. ELECTRICAL, TELEPHONE, AND CABLE LINES AND POLES TO BE ELIMINATED OR RELOCATED, SHALL BE COORDINATED WITH CITY OF CONCORD AND ASSOCIATED UTILITY PROVIDERS.

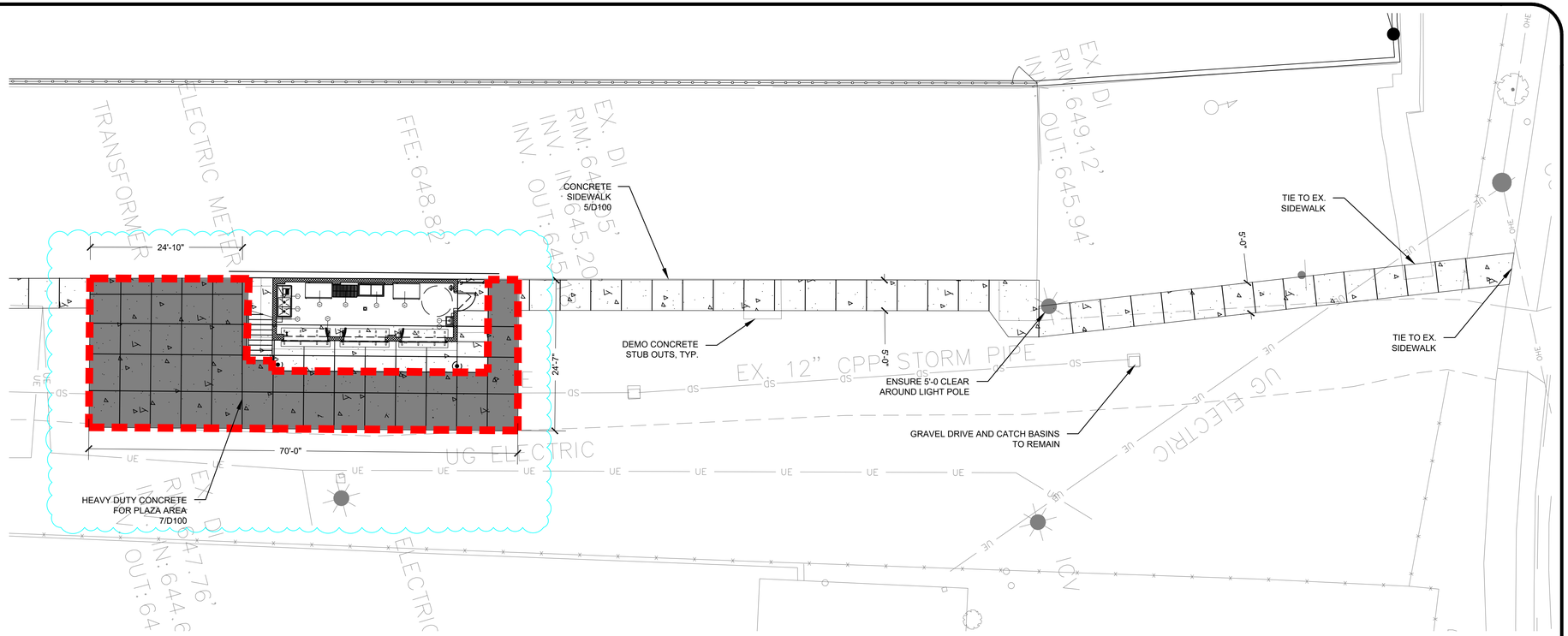
8. DO NOT SCALE DRAWING FOR ACTUAL DIMENSIONS AS IT IS A REPRODUCTION AND IS SUBJECT TO DISTORTION.

9. CONTRACTOR SHALL MAINTAIN THE SITE IN A SAFE AND CLEAN MANNER.

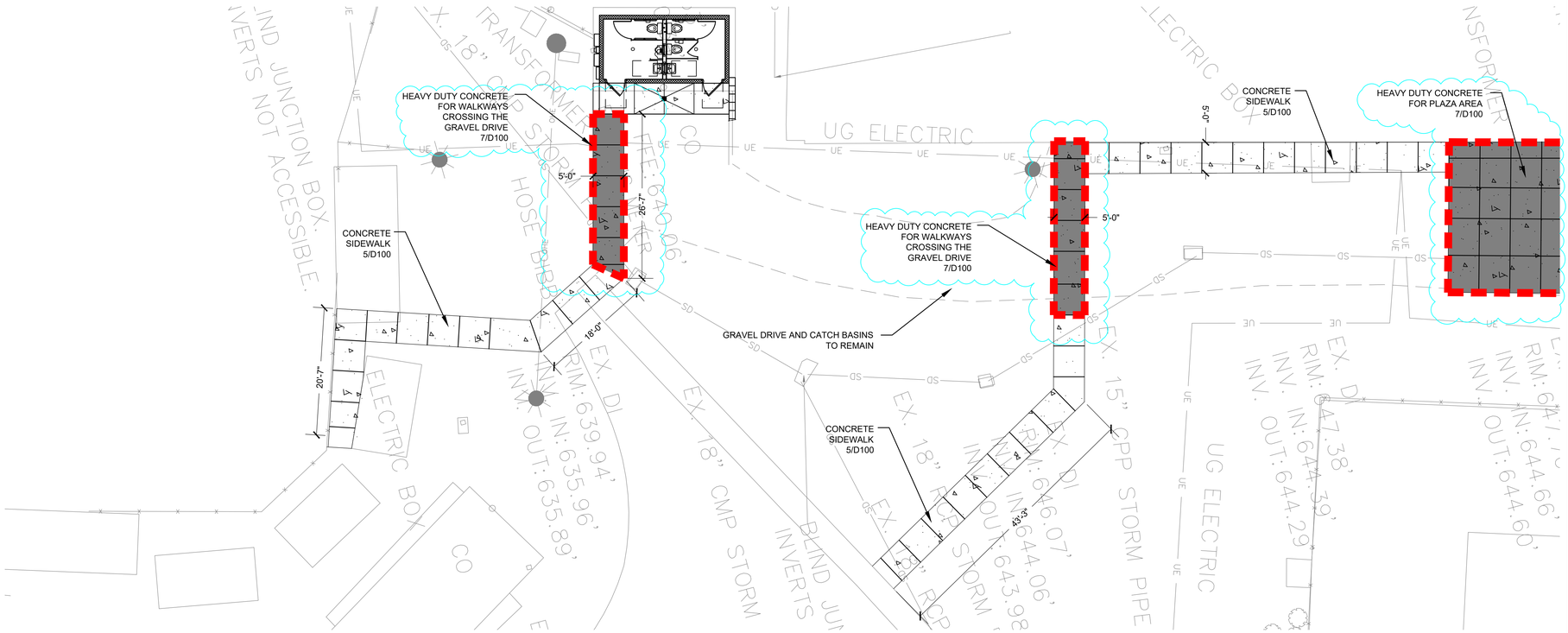
10. STAKE LAYOUT PRIOR TO CONSTRUCTION. VERIFY LOCATIONS WITH LANDSCAPE ARCHITECT OR OWNER

LEGEND

- HYDRANT
- WATER METER
- UTILITY PEDESTAL
- FLAG POLE
- ELECTRIC POLE
- LIGHT
- STORM CLEANOUT
- STORM DRAIN MANHOLE
- SIGN
- EXISTING CHAIN LINK FENCE
- CREEK
- OVERHEAD ELECTRIC
- TREES
- SHRUBS
- PROPOSED FENCE (6' HT.) (NOT TO SCALE-ILLUSTRATIVE PURPOSES ONLY)
- PROPOSED NETTING (14' HT.) ABOVE FENCE (6' HT.) (NOT TO SCALE-ILLUSTRATIVE PURPOSES ONLY)
- PROPOSED GATE LOCATION
- PROPOSED CONCRETE
- PROPOSED HEAVY DUTY CONCRETE



PRESS BOX LAYOUT PLAN A



PRESS BOX LAYOUT PLAN B

CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-632-4949) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

GRAPHIC SCALE
10 0 5 10 20
1 inch =10 ft.

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FITFIELDS.com

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT No. 1589 DAVID A. BOOE

NORTH CAROLINA CERTIFICATE OF AUTHORIZATION FITFIELDS, PLLC COA# 389

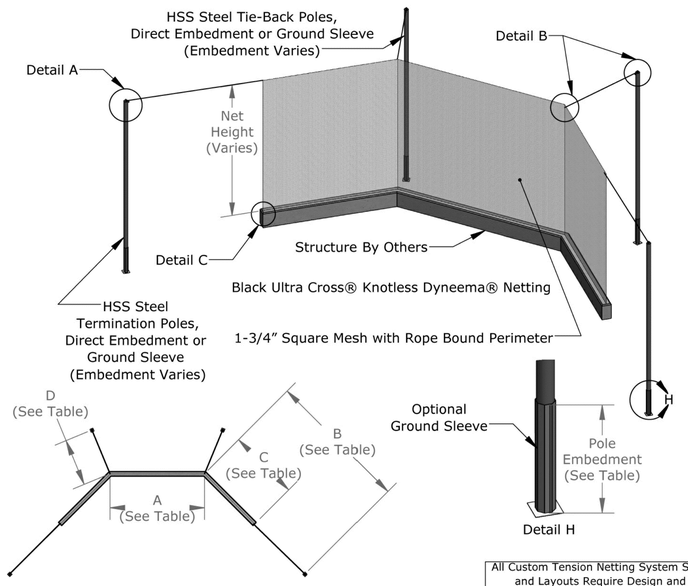
REVISIONS:
- 2.14.25 PLAN REVIEW COMMENTS
- 6.09.25 BID SET
- 7.22.25 ADDENDUM 1

OWNER:
CITY OF CONCORD
35 CABARRUS AVE. W
CONCORD, NORTH CAROLINA

ACADEMY COMPLEX RENOVATIONS
165 ACADEMY AVE. NW
CONCORD, NORTH CAROLINA

SCALE: 1" = 10'-0"
DATE: 06-09-25
SHEET NAME: LAYOUT PLAN PRESS BOX
SHEET NO: L102

Standard Black Powder Coated Finish



All Custom Tension Netting System Sizes and Layouts Require Design and Professional Engineering

SSI Tension Netting System Poles are Designed to Strength, Not Deflection. As a Result Some Deflection Will Occur During Installation and Should Be Considered Normal. Deflection May Also Be Evident in Calm Conditions, Particularly on the Outer Most Poles of a Given Tension Netting System

Foundation Requirements Based on Local Codes and Soil Conditions

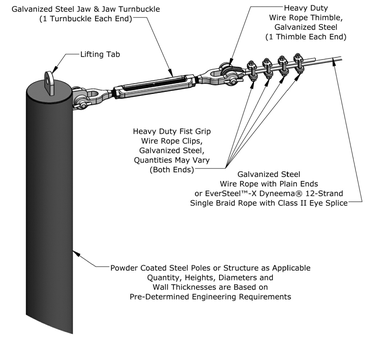
Part No.	Model	Net Material	System Height	Pole Size	Pole Embedment	A	B	C	D
TNTBB36	Standard Baseball	#36 Nylon	40'-0"	HSS 12.750 x 0.375	5'-0"	40'-0"	80'-0"	40'-0"	30'-0"
TNTBBUC	Standard Baseball	Ultra Cross	40'-0"	HSS 10.750 x 0.250	5'-0"	40'-0"	80'-0"	40'-0"	30'-0"
TNTBS36	Standard Softball	#36 Nylon	30'-0"	HSS 8.625 x 0.322	4'-0"	20'-0"	70'-0"	30'-0"	30'-0"
TNTBSUC	Standard Softball	Ultra Cross	30'-0"	HSS 8.625 x 0.250	4'-0"	20'-0"	70'-0"	30'-0"	30'-0"
TNTB36	Custom System	#36 Nylon	Varies	Varies	Varies	Varies	Varies	Varies	Varies
TNTBUC	Custom System	Ultra Cross	Varies	Varies	Varies	Varies	Varies	Varies	Varies

NOTES:

1. CONTRACTOR TO PROVIDE A COMPLETE SET OF NC PE SIGNED AND SEALED CONSTRUCTION PLANS FOR THE TIE BACK NETTING SYSTEM, INCLUDING BUT NOT LIMITED TO FOOTER DESIGN, POLE, CABLES SIZES AND INSTALLATION DETAILS.
2. NETTING TO BE 30' TALL.
3. A 6 POLE SYSTEM IS ACCEPTABLE, IF THE SPAN OF THE WINGS ARE TO LONG FOR A 4 POLE SYSTEM OR IF THERE IS A COST SAVINGS TO THE PROJECT.
4. NET DIMENSIONS TO BE VERIFIED BY CONTRACTOR. LEFT WING 113 LF, BACKSTOP 25 LF, RIGHT WING 113 LF
5. APPROVED EQUAL SUBMITTALS SHALL BE REVIEWED PRIOR TO BID.
6. BASIS OF DESIGN: SPORTFIELD SPECIALTIES TNTBUC

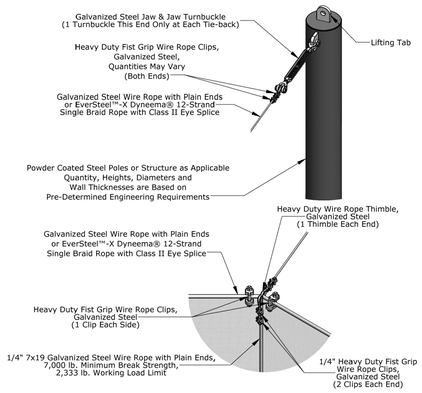
1 TIE-BACK TENSION BACKSTOP NETTING SYSTEM - 30' HT

NOT TO SCALE



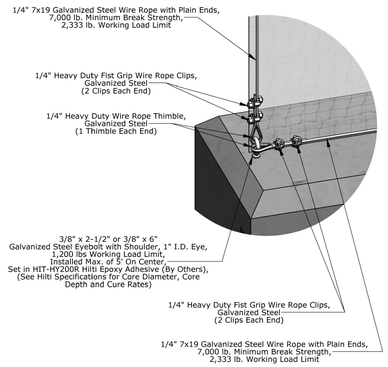
2 TERMINATION POLES AND MAIN CABLE - DETAIL A

NOT TO SCALE



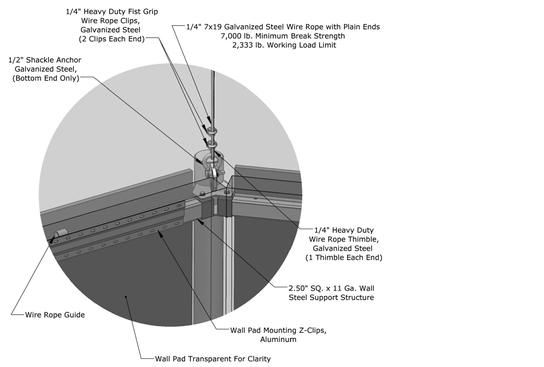
3 POLES AND SUPPORT CABLE - DETAIL B

NOT TO SCALE



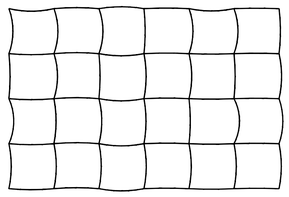
4 CABLE TERMINATION - DETAIL C

NOT TO SCALE



5 BOTTOM TERMINATION CONNECTION - DETAIL D

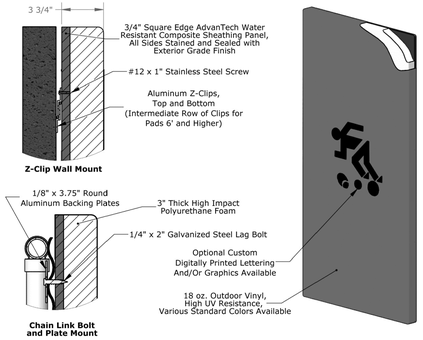
NOT TO SCALE



- LENGTH, HEIGHT AND CONFIGURATION AS REQUIRED
-ULTRA CROSS KNOTLESS DYNEEMA NETTING
- DYNEEMA ULTRA -HIGH MOLECULAR WEIGHT POLYETHYLENE (UHMWPE) SK-75 BLACK FIBER CONSTRUCTION
- 4 PLY, 1.2mm (0.0472") DIAMETER TWINE
- 95% OPEN MESH AREA (SEE-THROUGH VISBILITY)
- 58,445 PSI MINIMUM BREAKING STRENGTH
- 30% MAXIMUM ELONGATION AT BREAK
- 1-3/4" (44mm) SQUARE MESH SIZE, 0.009 LBS. PER SQUAE FOOT
- 4 STRAND, BRAIDED, CONTINUOUS MONOFILMENT DYNEEMA FIBER
- SEWN PERIMETER BLACK MULTI-FILAMENT POLYPROPYLENE SOILD BRAID ROPE BOND BORDER - 1/4" DIAMETER, 530 LB. MINIMUM BREAKING STRENGTH
- URETHANE BLACK BONDED FINISH (OTHER COLOR CHOICES AVAILABLE)
- STRONG RESISTANCE TO ULTRAVIOLET (UV) LIGHT DEGRADATION
- EXCELLENT RESISTANCE TO CHEMICALS AND WATER ABSORPTION

6 ULTRA CROSS KNOTLESS DYNEEMA NETTING (BACKSTOP ONLY)

NOT TO SCALE

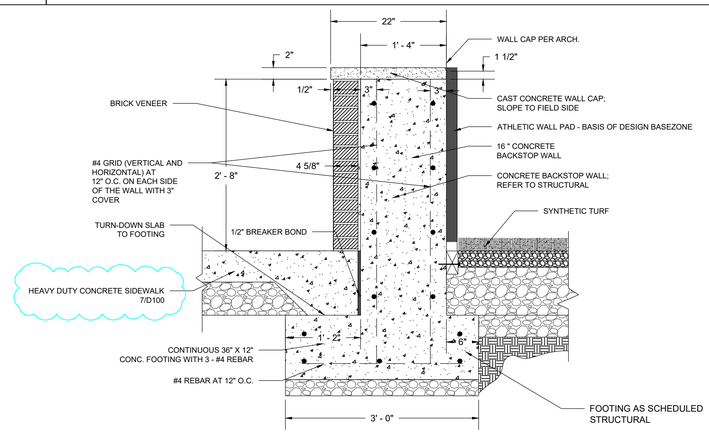


NOTES:

1. PAD TO BE ATTACHED TO FIELD SIDE OF THE BACKSTOP WALL
2. COLOR TBD BY OWNER VIA SUBMITTAL.
3. BASIS OF DESIGN: BASEZONE BY SPORTFIELD SPECIALITES.
4. APPROVED EQUAL SUBMITTALS SHALL BE REVIEWED PRIOR TO BID.

7 BACKSTOP PADDING

NOT TO SCALE



8 BACKSTOP WALL SECTION

NOT TO SCALE

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314 TOM HALL ST.
FORT MILL, SC
803.981.4330
FITFIELDS.com

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT No. 1589 DAVID L. BOOK

NORTH CAROLINA CERTIFICATE OF AUTHORIZATION FITFIELDS, PLLC COA# 389

REVISIONS:
- 2.14.25 PLAN REVIEW COMMENTS
- 6.09.25 BID SET
- 7.22.25 ADDENDUM 1

OWNER:
CITY OF CONCORD
35 CABARRUS AVE. W
CONCORD, NORTH CAROLINA

ACADEMY COMPLEX RENOVATIONS
165 ACADEMY AVE. NW
CONCORD, NORTH CAROLINA

SCALE: NTS

DATE: 06-09-25

SHEET NAME:
DETAILS

SHEET NO:
D104

PLUMBING FIXTURE SCHEDULES

SHOP DRAWINGS

1. SHOP DRAWINGS SHALL BE SUBMITTED ON THE FOLLOWING ITEMS: CLEANOUTS, DRAINS, PLUMBING FIXTURES, BRASS, TRIM, FIXTURE CARRIERS, DOMESTIC WASTE AND VENT PIPING ABOVE GRADE, DOMESTIC WASTE PIPING BELOW GRADE, COUPLINGS AND DOMESTIC WATER PIPING.

CLEANOUTS - CAST IRON PIPE

1. EXPOSED PIPE (INSIDE SPACES AND CEILING PLENUMS): CAST IRON CLEANOUT TEE WITH BRASS PLUG.
2. IN WALLS: (WCO) CAST IRON FERRULE, CENTER TAPPED BRONZE PLUG WITH STAINLESS STEEL COVER NOT TO EXCEED 8" IN DIAMETER WADE W-8550/W-8480R, EQUAL: ZURN Z-1440-1.
3. IN VINYL COMPOSITION AND QUARRY TILE FLOORS: (FCO) SATIN NIKALOY SCORIATED COVER AND RIN, CLEANOUT PLUG WITH LEAD SEAL, CAST IRON BODY, CAULKED OUTLET AND LEVELING SCREWS. WADE W-6000S, EQUAL: ZURN Z-1400T.
4. IN CARPET FLOORS: (FCO) SAME AS FOR TILE FLOORS ABOVE PLUS CARPET MARKER.
5. OUTDOOR OR GRADE CLEANOUTS: (GCO) TRACTOR GRATE, NIKALOY SCORIATED COVER, C.O. PLUG WITH LEAD SEAL, CAST IRON BODY, CAULKED OUTLET AND ADJUSTABLE HEAD. SET IN 18"x18"x6" CONCRETE PAD. WADE W-6000Z-1, EQUAL: ZURN ZN-1400-HD.
6. ALL CLEANOUTS SHALL BE OF THE SAME NOMINAL SIZE AS THE PIPE UP TO 4" PIPES AND SHALL BE IN 4" IN SIZE FOR LARGER PIPING.

DRAINS - ALL FLOOR DRAINS TO HAVE TRAP PRIMERS PER LOCAL CODE

1. (FD-1) FLOOR DRAIN: CAST IRON BODY, LEVELING SCREWS, INSIDE CAULK, FLASHING COLLAR, ADJUSTABLE STRAINER. DRAIN SIZE SHALL BE 3" UNLESS NOTED OTHERWISE ON THE PLANS. WADE W-1100-G6-1, EQUAL: ZURN ZN-415-6S.
2. (FD-2) FLOOR DRAIN: CAST IRON BODY, LEVELING SCREWS, SEDIMENT BUCKET. WADE W-1340-27, EQUAL: ZURN Z-520-Y.
3. (RD) ROOF DRAIN: CAST IRON BODY AND CAST IRON DOME, GRAVEL STOP FLASHING COLLAR AND DECK CLAMP. WADE W-3000-42-AE-53, EQUAL: ZURN ZC-100-EA-C.
4. (RD) ROOF DRAIN: HEAVY WALLED PVC BODY COMPLETE WITH GALVANIZED STEEL THREADED INSERTS TO ACCEPT SECURING BOLTS, GRAVEL STOP FLASHING COLLAR AND DECK CLAMP, CAST IRON DOME STRAINER. ZURN RD2080-PV3 OR APPROVED EQUAL. OVER-FLOW DRAIN ZURN RD208-PV3 WITH 2" HIGH EXTERNAL WATER DAM.
5. ALL FLOOR DRAINS EXCEPT WHERE INSTALLED IN SLAB-ON-GRADE SHALL BE FLASHED WITH 24"x24", 3 lb. PER SQ. FT. SHEET LEAD EMBEDDED IN FLOOR CONSTRUCTION.
6. (FS) FLOOR SINK: CAST IRON 12"x12"x6" DEEP WITH WHITE ACID RESISTING PORCELAIN ENAMEL TOP AND INTERIOR. SEE PLANS FOR PIPE SIZE AND TOP CONFIGURATION (HALF OR FULL GRATE). WADE W-9130LF-64, EQUAL: ZURN Z-1900.

PLUMBING FIXTURES - GENERAL

1. ALL LIKE FIXTURES AND TRIM SHALL BE OF ONE MANUFACTURER.
2. PROVIDE STOPS ON WATER SUPPLIES TO ALL PLUMBING FIXTURES, INCLUDING FIXTURES NOT FURNISHED UNDER THIS SECTION OF THE WORK, AND ALL WALL HYDRANTS. STOPS ON LAVATORY SUPPLIES SHALL BE CHROME PLATED.
3. PLUMBING FIXTURES SHALL BE AMERICAN STANDARD, KOHLER OR CRANE. FLUSH VALVES TO BE ZURN OR EQUAL BY SLOAN.
4. ALL FIXTURES SHALL BE GRADE 'A'. NAME AND TRADEMARK OF MANUFACTURER SHALL BE PRINTED OR PRESSED ON ALL FIXTURES AND A LABEL WHICH CANNOT BE REMOVED WITHOUT DESTROYING IT, CONTAINING THE MANUFACTURER'S NAME OR TRADEMARK AND THE QUALITY OR CLASS OF THE FIXTURE SHALL BE AFFIXED TO ALL FIXTURES AND NOT REMOVED UNTIL AFTER THE WORK HAS BEEN ACCEPTED.
5. EACH WALL HUNG FIXTURE SHALL BE HUNG BY MEANS OF WALL HANGERS, WHICH SHALL BE ANCHORED TO THE PARTITIONS BY MEANS OF 3/8 INCH TOGGLE BOLTS.

PLUMBING FIXTURES - CONNECTIONS

THE FOLLOWING MATERIALS SHALL BE USED TO CONNECT EACH PLUMBING FIXTURE TO THE DRAINAGE SYSTEM:

1. WATER CLOSET: (CONNECTION INCLUDED IN FIXTURE CARRIER).
2. URINAL: RED BRASS PIPE WITH 125# CAST BRONZE SCREWED FITTINGS.
3. LAVATORY: COPPER DWV DRAINAGE PIPE WITH WROUGHT COPPER DWV DRAINAGE FITTINGS. (EXPOSED CHROME PLATED). PROVIDE WHITE ADA INSULATION KITS ON ALL ADA AND GROUP LAVATORIES, TRUEBRO, INC., HANDI LAV-GUARD OR EQUAL.
4. COUNTER SINK: SAME AS FOR LAVATORY.
5. SERVICE SINK: SCHEDULE 40 GALVANIZED STEEL PIPE.
6. DRINKING FOUNTAIN: SAME AS FOR LAVATORY.

PLUMBING FIXTURES - EXECUTION

1. ALL SUPPLIES AND WASTE CONNECTIONS AND FIXTURE ANCHORING SHALL BE FIRMLY SECURED INSIDE WALL AND CHASES. SHOULD ANY SLIPPAGE BE DETECTED DURING OR AFTER INSTALLATION, THE PLUMBING SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE CORRECTION. NO PORTION OF THE WATER PIPING MAY HAVE DISSIMILAR METALS SECURING IT.
2. NO GALVANIZED PIPE WILL BE PERMITTED IN ANY PORTION OF THE WATER SYSTEM WHERE RIGID SCREWED PIPE IS REQUIRED. USE RED BRASS.
3. ALL WATER RUNOUTS TO FIXTURES SHALL BE SECURED INSIDE PLUMBING CHASE TO RIGID BUILDING STRUCTURE OR TO RIGID PLUMBING DRAINAGE PIPING.
4. FILL VOID UNDER FAUCETS ON LAVATORIES AND SINKS WITH PLUMBER'S PUTTY TO PREVENT WATER FROM DRAINING THROUGH FIXTURE HOLES.
5. CAULK FIXTURES TO WALL.

PLUMBING FIXTURE CONNECTION SCHEDULE

LABEL	FIXTURE NAME	COLD WATER	HOT WATER	WASTE	VENT
P-1	WATER CLOSET	1"	-	4"	1-1/2"
P-1A	WATER CLOSET (ADA)	1"	-	4"	1-1/2"
P-1B	WATER CLOSET (TANK TYPE)	1/2"	-	4"	1-1/2"
P-2	URINAL	3/4"	-	2"	1-1/2"
P-4	SINK	1/2"	1/2"	2"	1-1/2"
P-4B	SINK (DOUBLE BOWL)	1/2"	1/2"	2"	1-1/2"
P-6A	DRINKING FOUNTAIN (ADA)	1/2"	-	1-1/2"	1-1/2"
P-5	JANITORS SINK	1/2"	1/2"	3"	1-1/2"
P-8A	WALL MOUNTED LAVATORY	1/2"	1/2"	2"	1-1/2"
FPHB	FROST PROOF HOSE BIB	3/4"	-	-	-

PLUMBING MATERIALS AND NOTES

DOMESTIC WATER PIPING:

1. DOMESTIC WATER PIPING AND JOINTS BELOW GRADE: PROVIDE TYPE 'K' SOFT ANNEALED SEAMLESS COPPER TUBING (ASTM B 88) WITH NO JOINTS FOR PIPING 2½" AND SMALLER.
2. DOMESTIC WATER PIPING AND JOINTS ABOVE GRADE: PROVIDE TYPE 'L' HARD DRAWN SEAMLESS COPPER TUBING (ASTM B 88) AND CAST COPPER ALLOY FITTINGS (ASME B16.18). JOINTS 1" AND SMALLER SHALL BE LEAD FREE 95-5 TIN/SILVER SOLDER JOINTS (ASTM B 32), JOINTS 1¼" AND LARGER SHALL BE BCUP SILVER/PHOSPHORUS/COPPER BRAZED JOINTS (AWS A5.8) OR PROVIDE COPPER PIPE AND FITTINGS AS SPECIFIED ABOVE EXCEPT WITH GROOVED ENDS (ASTM B 88, ASME B16.18) AND JOINTS UTILIZING GROOVED MECHANICAL COUPLINGS MEETING (ASTM F1476). "TYPE A" PEX (EQUAL TO UPONOR PEX-A) MAY BE USED ONLY IN BELOW GRADE INSTAKKATIONS WITH PRIOR WRITTEN OWNER'S APPROVAL.
3. STERILIZE THE DOMESTIC WATER SYSTEM IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION'S SPECIFICATIONS AND LOCAL HEALTH DEPARTMENT REGULATIONS.
4. INSULATE DOMESTIC WATER PIPING ABOVE GRADE (EXCEPT EXPOSED CONNECTIONS TO PLUMBING FIXTURES) WITH GLASS FIBER INSULATION HAVING A VAPOR BARRIER AND JACKET. PIPE INSULATION SHALL HAVE A CONDUCTIVITY NOT EXCEEDING 0.27 BTUH x SQ. FT. FOLLOW SCHEDULE BELOW:

SERVICE TYPE	PIPE SIZES	INSULATION THICKNESS
DOMESTIC HOT WATER & CIRCULATION	1/2" - 1-1/4"	1"
DOMESTIC HOT WATER & CIRCULATION	1-1/2" - 4"	1-1/2"
DOMESTIC COLD WATER	1/2" - 1-1/4"	1/2"
DOMESTIC COLD WATER	1-1/2" - 4"	1"

5. DOMESTIC WATER PIPING INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVES ARE REQUIRED TO MEET A FLAME-SPREAD RATING OF 25 OR LESS AND A SMOKE-DEVELOPED RATING OF 50 OR LESS, AS TESTED BY ASTM E84 (NFPA 255) METHOD AND SHALL BE PLENUM RATED.
6. PROVIDE FULL PORT, BALL TYPE SHUT-OFF VALVES AND INSTALL IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS.
7. PROTECT COPPER PIPING AGAINST CONTACT WITH DISSIMILAR METALS, ALL HANGERS, SUPPORTS, ANCHORS AND CLIPS SHALL BE COPPER OR COPPER PLATED. WHERE COPPER PIPING IS CARRIED ON TRAPEZE HANGERS WITH OTHER PIPING, PROVIDE A PERMANENT ELECTROLYTIC ISOLATION MATERIAL TO PREVENT CONTACT WITH DISSIMILAR OTHER METALS.
8. PROTECT COPPER PIPING AGAINST CONTACT WITH ALL MASONRY. WHERE COPPER IS SLEEVED THROUGH MASONRY, PROVIDE COPPER OR RED BRASS SLEEVES. WHERE COPPER MUST BE CONCEALED IN OR AGAINST MASONRY PARTITIONS, PROVIDE A HEAVY COATING OF ASPHALTIC ENAMEL ON THE COPPER PIPING AND 15# ASPHALT SATURATED FELT BETWEEN THE PIPING AND THE MASONRY PARTITION.
9. DOMESTIC WATER PIPING SHALL BE SLOPED FOR DRAINAGE WITH DRAIN VALVES INSTALLED AT LOW POINTS.

SANITARY WASTE / VENT PIPING:

1. SANITARY WASTE PIPING BELOW GRADE: PROVIDE SERVICE WEIGHT CAST IRON HUB AND SPIGOT PIPE (ASTM A 74) WITH COMPRESSION JOINTS (CISPI HSN) AND NEOPRENE GASKETS (ASTM C 564) OR NO-HUB PIPE AND FITTINGS (CISPI 301) WITH NEOPRENE GASKET/STAINLESS STEEL CLAMP JOINTS (CISPI 310) OR PROVIDE SCHEDULE 40 PVC PIPE AND SOCKET FITTINGS (ASTM D 2665) WITH SOLVENT WELD JOINTS (ASTM D2855). FOAM CORE PVC PIPE IS NOT APPROVED. PROVIDE CAST IRON PIPING SPECIFIED ABOVE FOR ALL KITCHEN AND MECHANICAL ROOM WASTE PIPING, PVC IS NOT ACCEPTABLE IN THESE AREAS.
2. SANITARY WASTE/VENT PIPING ABOVE GRADE: PROVIDE SERVICE WEIGHT CAST IRON NO-HUB PIPE AND FITTINGS (CISPI 301) WITH NEOPRENE GASKET AND STAINLESS STEEL CLAMP JOINTS (CISPI 310) OR PROVIDE SCHEDULE 40 PVC PIPE AND SOCKET FITTINGS (ASTM D 2665) WITH SOLVENT WELD JOINTS (ASTM D2855). FOAM CORE PIPE IS NOT APPROVED. DO NOT INSTALL PVC PIPING IN RETURN AIR PLENUMS.
3. SLOPE SANITARY WASTE PIPING AT ¼" PER FOOT MINIMUM FOR PIPING 2½" AND SMALLER AND ⅛" PER FOOT MINIMUM FOR PIPING 3" AND LARGER UNLESS NOTED OTHERWISE.
4. PROVIDE CLEAN-OUTS AT THE BASE OF SANITARY WASTE STACKS AND AT EVERY TURN IN PIPING IN EXCESS OF 45° AND NO FURTHER THAN 100'-0" APART IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS.
5. PROVIDE FLOOR CLEANOUTS WITH TOPS DESIGNED TO MATCH SPECIFIC FLOOR FINISHES SUCH AS CARPET, TILE, ETC. YARD CLEANOUTS SHALL BE PROVIDED IN AN 18"x18"x6" CONCRETE PAD.
6. WHERE WASTE PIPING IS EXPOSED IN REST ROOM AREAS, PROVIDE CHROME PLATED BRASS PIPING, REMOVABLE P-TRAPS, MATCHING STOPS AND ESCUTCHEONS FOR ALL LAVATORIES.
7. PIPING INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVES ARE REQUIRED TO MEET A FLAME-SPREAD RATING OF 25 OR LESS AND A SMOKE-DEVELOPED RATING OF 50 OR LESS, AS TESTED BY ASTM E84 (NFPA 255) METHOD.

PLUMBING DRAWING INDEX

PLUMBING GENERAL NOTES

GENERAL REQUIREMENTS:

1. PLUMBING WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2018 NORTH CAROLINA PLUMBING AND FUEL GAS CODE AND WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.
2. GENERAL AND SPECIAL CONDITIONS ARE HEREBY MADE AN INTEGRAL PART OF THE PLUMBING SPECIFICATIONS INSOFAR AS THE GENERAL AND SPECIAL CONDITIONS ARE APPLICABLE TO THE PLUMBING WORK, UNLESS OTHERWISE SPECIFIED.
3. SCOPE: PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL PLUMBING SYSTEMS IN ACCORDANCE WITH ALL APPLICABLE CODES.
4. PERMITS: APPLY AND PAY FOR ALL NECESSARY PERMITS, FEES AND INSPECTIONS REQUIRED BY ANY PUBLIC AUTHORITY HAVING JURISDICTION. ACREAGE CHARGES, FACILITIES CHARGES AND BOND PROPERTY ASSESSMENTS ARE NOT TO BE CONSTRUED TO BE A PART OF THIS CONTRACT.
5. WARRANTY: PROVIDE A ONE YEAR WARRANTY, FROM THE DATE OF ACCEPTANCE OF WORK BY THE OWNER, FOR ALL PLUMBING MATERIALS AND EQUIPMENT.
6. COORDINATE ALL PLUMBING PIPING LOCATIONS, ROUGH-IN LOCATIONS AND EQUIPMENT LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES. FINAL PIPING AND EQUIPMENT LOCATIONS SHALL BE A CODE COMPLIANT INSTALLATION FOR ALL TRADES.
7. FIELD VERIFY PROPER OPERATION OF EXISTING SYSTEMS BEFORE STARTING CONSTRUCTION. NOTIFY THE ARCHITECT / ENGINEER OF RECORD OF ANY PROBLEMS OR DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS AND/OR ANY POTENTIAL PROBLEMS OBSERVED BEFORE CONTINUING WORK IN THE EFFECTED AREAS.
8. CUT WALLS, FLOORS AND CEILINGS AS REQUIRED FOR INSTALLATION OF PLUMBING WORK. ALL CUTTING SHALL BE HELD TO A MINIMUM. PATCH AND FINISH SURFACES TO MATCH ADJOINING SURFACES.
9. PLUMBING PLANS SHALL NOT BE SCALED. REFERENCE THE ARCHITECTURAL PLANS FOR ALL LOCATIONS OF PLUMBING FIXTURES, WALLS, DOORS, WINDOWS, ETC.
10. PLUMBING PIPING SHALL BE LOCATED CONCEALED IN WALLS, PARTITIONS OR ABOVE CEILINGS UNLESS NOTED OTHERWISE. PLUMBING PIPING IN EXPOSED AREAS SHALL BE RUN TIGHT TO UNDERSIDE OF STRUCTURE.
11. PLUMBING PIPING, VENTS, ETC. EXTENDING THROUGH EXTERIOR WALLS AND/OR THE ROOF SHALL BE FLASHED AND COUNTER FLASHED IN A WATERPROOF MANNER. COORDINATE FLASHING WITH THE GENERAL CONTRACTOR.
12. DO NOT INSTALL PLUMBING PIPING IN AREAS SUBJECT TO FREEZING TEMPERATURES. INSTALL PLUMBING PIPING SHOWN IN EXTERIOR WALLS ON THE CONDITIONED SIDE OF THE WALL INSULATION.
13. PROVIDE NON-CONDUCTING DIELECTRIC UNIONS WHENEVER CONNECTING DISSIMILAR METALS.
14. ATTACH HANGERS TO STRUCTURE, HANGERS SHALL NOT ATTACH TO THE DECK.
15. PROVIDE ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTORS, TRAP PRIMERS, ETC. CONCEALED IN MASONRY WALLS, GYPBOARD WALLS AND/OR CEILINGS THAT WILL REQUIRE MAINTENANCE ACCESS.
16. PLUMBING SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO: PLUMBING FIXTURES AND EQUIPMENT, FIRE STOPPING, SEISMIC BRACING, PIPE IDENTIFICATION, DOMESTIC WATER SYSTEM, SANITARY WASTE AND VENT SYSTEM, STORM DRAIN SYSTEM, NATURAL GAS SYSTEM

PLUMBING FIXTURES AND EQUIPMENT:

1. PROVIDE COMPLETE PLUMBING FIXTURES AND EQUIPMENT. INCLUDE SUPPLIES, STOPS, VALVES, FAUCETS, DRAINS, TRAPS, TAIL PIECES, ESCUTCHEONS, ETC.
2. PLUMBING FIXTURES AND EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS.
3. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH SUBSTITUTIONS TO SPECIFIED PLUMBING FIXTURES AND EQUIPMENT INCLUDING BUT NOT LIMITED TO; PROVIDING MAINTENANCE ACCESS CLEARANCE, PIPING, ELECTRICAL, REPLACEMENT OF OTHER SYSTEM COMPONENTS, BUILDING ALTERATIONS, ETC. AND ANY MODIFICATIONS TO ASSOCIATED MECHANICAL, ELECTRICAL OR PLUMBING SYSTEMS REQUIRED BY THE EQUIPMENTS INSTALLATION INSTRUCTIONS. ALL COSTS ASSOCIATED WITH SUBSTITUTIONS SHALL BE INCLUDED IN THE ORIGINAL BASE BID.

FIRE STOPPING:

1. FIRE STOP ALL PENETRATIONS, BY PIPING OR CONDUITS, OF FIRE RATED WALLS, FLOORS AND PARTITIONS. PROVIDE A DEVICE(S) OR SYSTEM(S) WHICH HAS BEEN TESTED AND LISTED AS COMPLYING WITH ASTM E-814 AND INSTALL IN ACCORDANCE WITH THE CONDITIONS OF THEIR LISTING. PROVIDE A DEVICE(S) OR SYSTEM(S) WITH AN 'F' RATING EQUAL TO THE RATING OF THE ASSEMBLY BEING PENETRATED. REFER TO ARCHITECTURAL PLANS FOR WALL AND FLOOR TYPES.

SEISMIC BRACING:

1. PROPERLY SUPPORT AND BRACE VERTICALLY AND HORIZONTALLY ALL PIPING, APPARATUS, EQUIPMENT, ETC. IN ACCORDANCE WITH APPLICABLE CODES TO PREVENT EXCESSIVE MOVEMENT DURING SEISMIC CONDITIONS.

PIPE IDENTIFICATION:

1. PROVIDE PIPING LABELS FOR ALL PLUMBING PIPING. PIPING LABELS SHALL BE ACRYLIC FACED, WRAP-AROUND TYPE. EACH LABEL SHALL INDICATE THE PIPING CONTENTS, DIRECTION OF FLOW AND SHALL BEAR THE MANUFACTURER'S STANDARD COLOR FOR THE SERVICE INDICATED.
2.

WATER SYSTEM DRAIN DOWN

TYPICAL STEPS TO DRAIN A WATER SYSTEM

NOTE - SOME STEPS MAY NOT BE NECESSARY DEPENDING ON EQUIPMENT INSTALLED. THIS LIST IS PROVIDED AS AN EXAMPLE, PC SHALL USE INDUSTRY APPROVED METHODS, AND SHALL PROVIDE ANY VALVES, FITTINGS, OR OTHER APPURTENANCES NECESSARY TO ACHIEVE DRAIN-DOWN FOR FREEZE PROTECTION.

1. TURN OFF ELECTRICITY TO THE WATER PUMP SYSTEM
2. TURN OFF ELECTRICITY TO WATER HEATER IF ELECTRIC OR TURN OFF GAS SUPPLY IF THE WATER HEATER IS GAS-FIRED.
3. SHUT OFF WATER SYSTEMS BY SHUTTING THE VALVE ON THE MUNICIPAL WATER.
4. DRAIN THE PRESSURE TANK
5. OPEN ALL FAUCETS
6. DISCONNECT HOSES FROM EXTERIOR FAUCETS
7. OPEN DRAIN VALVE CLOSEST TO THE MAIN SHUT-OFF VALVE SO WATER WILL DRAIN OUT TO CLEAR THE SHUT-OFF VALVE
8. DRAIN HOLDING TANK
9. FLUSH ALL TOILETS AND DIP ALL WATER OUT OF THE FLUSH TANK (OR PUMP IT OUT USING A HAND BILGE PUMP)
10. DRAIN ALL FLEXIBLE SPRAY HOSES IN SHOWERS AND SINKS
11. OPEN DIVERTER VALVE TO SHOWER HEAD SO WATER DRAINS OUT
12. DRAIN WATER SOFTENERS SO WATER WILL DRAIN BACK FROM SOFT WATER PIPES AND CONTROLS. (BRINE TANK PROBABLY WILL NOT FREEZE)
13. DRAIN ANY OTHER WATER TREATMENT EQUIPMENT - SUCH AS FILTERS
14. DRAIN WATER HEATERS
15. BLOW OUT ANY REMAINING WATER FROM THE SYSTEM USING AN AIR COMPRESSOR.

PLUMBING FIXTURE SCHEDULES (CON'T)

P-1 - WATER CLOSET (FLOOR MOUNTED)
KOHLER K-96057-B, 1.6 GPF, 16-5/8" HIGH ELONGATED BOWL, SIPHON JET, VITREOUS CHINA; ZURN Z-6000-1 MANUAL FLUSH VALVE MOUNTED 11" ABOVE WATER CLOSET; CHURCH 9500CT OPEN FRONT SEAT, WHITE SOLID PLASTIC.

P-1A - WATER CLOSET (FLOOR MOUNTED, ADA COMPLIANT)
KOHLER K-96057-B, 1.6 GPF, 16-5/8" HIGH ELONGATED BOWL, SIPHON JET, VITREOUS CHINA; ZURN Z-6000-1 MANUAL FLUSH VALVE MOUNTED 11" ABOVE WATER CLOSET; CHURCH 9500CT OPEN FRONT SEAT, WHITE SOLID PLASTIC.

P-1B - WATER CLOSET (FLOOR MOUNTED, TANK TYPE, PRESSURE ASSISTED)
AMERICAN STANDARD 2467.016.02. 1.6 GPF, ELONGATED BOWL, SIPHON JET, VITREOUS CHINA, SUPPLY WITH STOP; CHURCH 9500CT OPEN FRONT SEAT, WHITE SOLID PLASTIC.

P-2 - URINAL
AMERICAN STANDARD 6581.001.020, APPROVED BY: KOHLER, CRANE; SIPHON JET, VITREOUS CHINA; ZURN Z-6003-EWS FLUSH VALVE; (ROUGH WASTE OUTLET AT 17"). PROVIDE MOUNTING HEIGHT REQUIRED FOR HANDICAPPED. PROVIDE WITH ZURN 1221 WALL CARRIER.

P-4 - SINK (SINGLE BOWL)
EAGLE HSAE-10-FA; 18-7/8"X13-3/4"X12-3/4"; STAINLESS STEEL CONSTRUCTION, GOOSENECK FAUCET. INCLUDED P-TRAP.

P-4B - SINK (DOUBLE BOWL)
ADVANCE TABCO FC-2-1824-24R; 2-COMPARTMENT, 24" RIGHT DRAINBOARD, BOWL SIZE 18" X 24" X 14" DEEP, 16 GAUGE 304 STAINLESS STEEL; LK-35 DRAIN; LK-53 PIPE; LK-2433C FAUCET.

P-6A - DRINKING FOUNTAIN (BI-LEVEL, ADA COMPLIANT, OUTDOOR)
MURDOCK GRM45-JF1; BARRIER FREE PEDESTAL MOUNTED, JUG FILLER, BI-LEVEL,18 GAUGE, 304 STAINLESS STEEL BOWLS, GREEN POWDER COATED, HEAVY DUTY, 12 GAUGE WELDED STAINLESS STEEL PEDESTAL.

P-8A - LAVATORY (ADA COMPLIANT)
KOHLER K-2867; 20"X18" ENAMELED CAST IRON, WALL HUNG LAVATORY, 4" CENTERS, CHICAGO FAUCETS 802-665ACP WITH GRID DRAIN. ZURN Z1231, FLOOR MOUNTED HORIZONTAL ARM CARRIER. PROVIDE AND INSTALL 0.5GPM AERATOR.

P-5 - JANITOR'S MOP SERVICE BASIN
FIAT TSB-100, 24"X24"X12" MOLDED STONE BASIN WITH 3" CAST BRASS DRAIN AND DOME STRAINER; SERVICE FAUCET #830-AA WITH VACUUM BREAKER; INTEGRAL STOPS; #832-AA-30" HOSE AND HOSE BRACKET.

HB - HOSE BIB & LOCK BOX
ZURN Z1330-C; WALL HYDRANT WITH INTEGRAL BREAKER, POLISHED CHROME WITH LOOSE KEY CONNECTION AND 3/4" SWEAT INLET. WOODFORD B24, KEY OPERATED, CHROME PLATED, EQUAL.

FPHB - FREEZE PROOF HOSE BIB
MIFAB MHY-20, EXPOSED NON-FREEZE WALL HYDRANT WITH INTEGRAL VACUUM BREAKER, POLISHED CHROME PLATED FACE AND 3/4" SWEAT INLET.

GYH - IN-GROUND YARD HYDRANT (FREEZE PROOF)
WOODFORD MODEL Y95, NON-FREEZE YARD HYDRANT WITH INTEGRAL VACUUM BREAKER, BRASS BOX AND 3/4" SWEAT INLET.

EWH-1 - ELECTRIC WATER HEATER
A.O. SMITH DEL-20 (3.0KW, 208V, SINGLE PHASE 20GPH @ 60° TEMP. RISE) WATER HEATERS SHALL HAVE COMBINATION TEMPERATURE AND PRESSURE RELIEF VALVE, MAGNESIUM ANODE; GLASS-LINED, 5 YEAR WARRANTY ON TANK, STANDARD WARRANTY ON ACCESSORIES, SEE PLANS FOR SIZES. PROVIDE A 2 GALLON BLADDER TYPE EXPANSION TANK ON WATER HEATERS ABOVE 3 GALLON STORAGE.

EWH-2 - ELECTRIC WATER HEATER
A.O. SMITH DEL-50 (6KW, 208V, SINGLE PHASE 30GPH @ 80° TEMP. RISE) WATER HEATERS SHALL HAVE COMBINATION TEMPERATURE AND PRESSURE RELIEF VALVE, MAGNESIUM ANODE; GLASS-LINED, 5 YEAR WARRANTY ON TANK, STANDARD WARRANTY ON ACCESSORIES, SEE PLANS FOR SIZES. PROVIDE A 2 GALLON BLADDER TYPE EXPANSION TANK ON WATER HEATERS ABOVE 3 GALLON STORAGE.

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CONCORD, NORTH CAROLINA

SCALE: 1/4"= 1'-0"
DATE: 05/21/2025
SHEET NAME: PLUMBING SCHEDULES, DETAILS AND NOTES
SHEET NO: P0.1

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END OF ADDENDUM 1

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