August 7, 2023

WHITE PLAINS CITY SCHOOL DISTRICT WHITE PLAINS HIGH SCHOOL UPGRADES AND TURF FIELD SED Control No. 66-22-00-01-0-016-029

CONTRACT G - GENERAL CONSTRUCTION WORK CONTRACT C - CIVIL CONSTRUCTION WORK CONTRACT H - HVAC CONSTRUCTION WORK CONTRACT E - ELECTRICAL CONSTRUCTION WORK

WESTCHESTER COUNTY, NEW YORK

NOTE: This clarification forms a part of the contract documents for the above project and must be acknowledged in the plans and specifications. Attach it to the inside front cover of each of the specifications.

GENERAL CLARIFICATION TO PROJECT:

 Contract 'C' – Civil contractor shall transport topsoil to on-site staging area for screening. Once screened, the contractor shall transport screened topsoil to 'The City of White Plains' at 87 Gedney Way, White Plains, NY. Debris and unwanted material remaining after screening process shall be removed and appropriately disposed of by contractor. See revised Contract 'C' Civil Drawings attached herewith for additional information.

CLARIFICATION TO SPECIFICATIONS:

- Remove SPECIFICATION SECTION 002113 INSTRUCTIONS FOR BIDDERS and replace with revised SPECIFICATION SECTION 002113 - INSTRUCTIONS FOR BIDDERS, attached herewith. Instructions to Bidders (IB-1), Line item 1 has been revised to indicate, 'Certified check or Bid Bond in the amount totaling 10% of the base bid.' to match the Bid Bond language throughout the Specifications.
- 2. Remove SPECIFICATION SECTION 004116.11-PB-C and replace with revised SPECIFICATION SECTION 004116.17-PB-C, attached herewith.
- 3. Remove SPECIFICATION SECTION 004116.11-PB-G and replace with revised SPECIFICATION SECTION 004116.17-PB-G, attached herewith.
- 4. Remove SPECIFICATION SECTION 004116.11-PB-H and replace with revised SPECIFICATION SECTION 004116.17-PB-H, attached herewith.
- 5. Remove SPECIFICATION SECTION 004116.11-PB-E and replace with revised SPECIFICATION SECTION 004116.17-PB-E, attached herewith.
- 6. Remove SPECIFICATION SECTION 011100 SUMMARY OF WORK and replace with revised SPECIFICATION SECTION 011100 SUMMARY OF WORK, attached herewith.
- 7. Remove SPECIFICATION SECTION 095113 ACOUSTICAL PANEL CEILINGS and replace with revised SPECIFICATION SECTION 095113 ACOUSTICAL PANEL CEILINGS, attached herewith.
- 8. Insert provided SPECIFICATION SECTION 099113 EXTERIOR PAINTING.
- 9. Insert provided SPECIFICATION SECTION REPORT OF GEOTECHNICAL INVESTIGATION.
- 10. Insert provided SPECIFICATION SECTION 321216 Asphaltic Concrete Paving.





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CLARIFICATION TO DRAWINGS:

- 1. Insert provided Drawing SB100.00 RECORD OF SUBSURFACE EXPLORATION AND SOIL BORING INFORMATION.
- 2. REMOVE DRAWING CS100.00 DIMENSIONAL SITE PLAN UPPER FIELD AND REPLACE WITH REVISED DRAWING CS100.00 DIMENSIONAL SITE PLAN UPPER FIELD attached herewith. Please note that this drawing has been revised to clarify scope for the existing scoreboards.
- REMOVE DRAWING C100.00 GRADING & DRAINAGE AND EROSION & SEDIMENT CONTROL PLAN UPPER FIELD AND REPLACE WITH REVISED DRAWING C100.00 GRADING & DRAINAGE AND EROSION & SEDIMENT CONTROL PLAN UPPER FIELD attached herewith. Please note that this drawing has been revised to clarify scope for drainage.
- 4. REMOVE DRAWING A100.00B FIRST FLOOR PLAN and replace with revised DRAWING A100.00B FIRST FLOOR PLAN attached herewith. Please note that this drawing has been revised to clarify scope for ceiling at the underside of the Stairs at 'A' Wing.
- REMOVE DRAWING A500.00 DETAILS and replace with revised DRAWING A500.00 DETAILS attached herewith. Please note that this drawing has been revised to clarify scope for ceiling at the underside of the Stairs at 'A' Wing.
- 6. REMOVE DRAWING E001 ELECTRICAL LEGENDS and replace with revised DRAWING E001 ELECTRICAL LEGENDS attached herewith.
- 7. REMOVE DRAWING ES100 ELECTRICAL SITE PLAN and replace with revised DRAWING ES100 ELECTRICAL SITE PLAN attached herewith.
- 8. REMOVE DRAWING E100 ELECTRICAL PARTIAL BASEMENT PLANS and replace with revised DRAWING E100 ELECTRICAL PARTIAL BASEMENT PLANS attached herewith.
- 9. REMOVE DRAWING E122 ELECTRICAL PARTIAL FIRST FLOOR PLANS and replace with revised DRAWING E122 ELECTRICAL PARTIAL FIRST FLOOR PLANS attached herewith.
- 10. REMOVE DRAWING E130 ELECTRICAL PARTIAL SECOND FLOOR PLANS and replace with revised DRAWING E130 ELECTRICAL PARTIAL SECOND FLOOR PLANS attached herewith.
- 11. REMOVE DRAWING E140 ELECTRICAL PARTIAL ROOF PLAN BUILDING A and replace with revised DRAWING E140 ELECTRICAL PARTIAL ROOF PLAN BUILDING A attached herewith.
- 12. REMOVE DRAWING E141 ELECTRICAL PARTIAL ROOF PLAN BUILDING B and replace with revised DRAWING E141 ELECTRICAL PARTIAL ROOF PLAN BUILDING B attached herewith.
- 13. REMOVE DRAWING E142 ELECTRICAL PARTIAL ROOF PLAN BUILDING C and replace with revised DRAWING E142 ELECTRICAL PARTIAL ROOF PLAN BUILDING C attached herewith.
- 14. REMOVE DRAWING E200 ELECTRICAL SINGLE LINE DIAGRAMS and replace with revised DRAWING E200 ELECTRICAL SINGLE LINE DIAGRAMS attached herewith.
- 15. REMOVE DRAWING E201 ELECTRICAL PANEL SCHEDULES and replace with revised DRAWING E201 ELECTRICAL PANEL SCHEDULES attached herewith.



August 7, 2023

REQUEST FOR INFORMATION FROM ANTHONY MONACO (Icon Const. Gr., Inc)

1. Please confirm you want a Certainteed ceiling tile with an ARMSTRONG 'clean room' gasketed grid system. It is unusual to utilize two different manufacturers and to use a 'clean room' grid system in a school at common areas.

RFI response: The ceiling tile and grid system shall be from the same manufacturer, Certainteed Symphony m 1222-75-1 Ceiling Tile with the 15/16" EZ Stab Classic Gird System or approved equal, see attached revised SPECIFICATION SECTION 095113 - ACOUSTICAL PANEL CEILINGS.

2. Detail 1 /A500.00 calls for "provide and install spandrel film on classroom side of glazing entire length of soffit, typ. Please provide a specification for this film.

RFI response: Omit Spandrel for classroom side of glazing. Contractor shall paint existing classroom side of glazing.

3. Shaft wall framing calls out for 18ga in the specifications, however 20ga is referenced on sheet A500 for the shaft wall assembly. Please clarify.

RFI response: Provide 20ga for shaft wall framing.

REQUEST FOR INFORMATION FROM TONY (Avanti Building Construction Corp.)

1. Drawing cover sheet G000.00 calls out for Civil Drawing SB 100.00 - Record of subsurface exploration and soil boring information. This drawings is missing from the drawing set, can you please provide this drawing.

RFI response: See attached DRAWING SB 100.00 - RECORD OF SUBSURFACE EXPLORATION AND SOIL BORING INFORMATION and REPORT OF GEOTECHNICAL INVESTIGATION.

2. Specification section 321216 - Asphaltic Concrete Paving is not on WPSD2206 - Final Bid Specs, please advise.

RFI response: See attached SPECIFICATION SECTION 321216 – Asphaltic Concrete Paving.

3. Drawing C 502.00 detail 5 calls out for Jellyfish filtration system, the factory needs to know what is the model of Jellyfish, how many Hi Flow cartridges there are, how many Drain Down Cartridges and what length the cartridges are?

RFI response: The drainage design has been modified and the Jellyfish Filtration system is no longer a part of the scope. See attached Drawing C100.00.

End of Addendum No. 1

X:\WPSD (White Plains Central School District) - 10991\WPSD 2206 - (High School Upgrades and Turf Field)\03-Bid\Addenda\Addendum #1\WPSD 2206 Addendum 1.docx

BIDS FOR PROJECT

The Board of Education of the Owner (hereafter called School District), will receive **SEALED PROPOSALS** for:

WHITE PLAINS CITY SCHOOL DISTRICT HIGH SCHOOL UPGRADES AND TURF FIELD White Plains SED: 66-22-00-01 0-016-029 CONTRACT G - GENERAL CONSTRUCTION WORK CONTRACT C - CIVIL CONSTRUCTION WORK CONTRACT H - HVAC CONSTRUCTION WORK CONTRACT E - ELECTRICAL CONSTRUCTION WORK

TIME AND PLACE

The sealed proposals are to be submitted at the:

WHITE PLAINS CITY SCHOOL DISTRICT ADMINISTRATION OFFICE 5 Homeside Lane

White Plains NY 10605

See notice to bidders for all dates and times.

REQUIRED BID SUBMISSIONS

Each bid submission shall consist of three (3) sealed envelopes containing the following items. The bidder shall carefully remove all forms from the project specification. The project manual should not be submitted or included in the bid package.

Envelope No. 1 - BID PROPOSAL:

This envelope shall be clearly marked with the name of the project, bidders name and marked "**BID PROPOSAL**" in large lettering on the envelope and shall contain the following items:

1. Certified check or Bid Bond in the amount totaling 10% of the base bid.

2. Certified letter from Bonding Company, indicating that they meet the criteria set forth in article 11 of the General Conditions.

3. Certified letter that the company bidding this project has been in business under the same name for a period of five years or longer, and is not currently disbarred from bidding or working on public works projects by the New York State Department of Labor.

- 4. One (1) fully executed original and one (1) copy (marked "copy") of the following:
 - a. Proposal forms (P-sheets).
 - b. Non-collusive form.
 - c. Hold Harmless Agreement.
 - d. Certification of Compliance with the Iran Divestment Act or Declaration of Bidder's Inability to provide Certification of Compliance with the Iran Divestment Act.
 - e. Sexual Harassment Certification form.
 - f. Insurance Certification.
 - g. If the bid is sent by mail, the sealed envelope shall be enclosed in a separate mailing envelope with the notation "SEALED BID ENCLOSED" on the face thereof. Each bib must be accompanied by the Insurance Certification Form located in the specifications Failure to provide may result in the School District finding the bidder "non-responsive" to the bid documents.

Envelope No. 2 - BID QUALIFICATIONS:

This envelope shall be clearly marked with the name of the project, bidders name and marked "**BID QUALIFICATIONS**" in large lettering on the envelope and shall contain the following items:

1. A description of its experience with projects of comparative size, complexity and cost together with documentary evidence showing that said projects were completed to the School District's satisfaction and were completed in a timely fashion.

- 2. Documentation from five projects completed within the past five years:
 - a. timeliness of performance of the work of the project.
 - b. evidence that the project was completed to the School District's satisfaction.
 - c. whether any extensions of time were requested and if such requests were granted.
 - d. whether litigation and/or arbitration was commenced by either the School District or the bidder as a result of the work of the project completed by the bidder.
 - e. whether any liens were filed on the project by subcontractors or material suppliers of the bidder.
 - f. whether the bidder was defaulted on the project by the School District.
 - g. whether the bidder made any claims for extra work on the project, including whether said claim resulted in a change order.

3. Documentation evidencing the bidder's financial responsibility, including a certified financial statement prepared by a Certified Public Accountant.

- 4. Fully completed statement of bidder's qualification.
- 5. Fully completed list of subcontractors.

Envelope No. 3 SUB-CONTRACTOR BID QUALIFICATIONS:

Each contract shall submit with their bid, a third and separate sealed envelope containing the list of names of the subcontractors that the bidder will use to perform work and the agreed upon amounts to be paid for each of the following as applicable to the project.

After the low bid for each contract is announced, the sealed list of subcontractors submitted by the apparent low bidder shall be opened and the names of the subcontractors announced.

DETERMINATION OF BIDDERS

In the consideration and acceptance of any proposal, the School District shall be entitled to exercise every measure of lawful discretion in evaluating the financial history and ability of the Bidder and its past performance in ventures of this or similar nature. Such data will be considered either as a material or controlling factor in the acceptance of any bid submitted.

1. Bidders must prove to the satisfaction of the School District that they are reputable, reliable and responsible.

2. The School District may make any investigation it deems necessary to assure itself of the ability of the Bidder to perform the work.

3. The School District reserves the right to reject any or all proposals and to accept the proposal it deems in the best interest of the School District.

4. A tie-bid is defined as an instance where bids are received from two or more Bidders who are the low responsive Bidders, and their offers are identical. It is the policy of the District to settle the outcome of tie-bids by either drawing a name from a hat or flipping a coin within 24 hours of the bid opening. All affected firms will be notified of the tie, the time and place of the resolution of the tie and shall be invited to witness the outcome. Attendance is not mandatory. The drawing/flip will be held at the District Administration Office. Two impartial witnesses will be provided and shall be present. All attendees will acknowledge the results of the tie-breaker on the bid tabulation sheet. All firms affected by the bids will be notified of the results. The results pursuant to this provision shall be considered final.

DEPOSITS

Bidders deposit will be refunded if the set is returned in good condition within thirty (30) days following the award of the contract or the rejection of the bids covered by such plans and specifications. Non-bidders shall receive partial reimbursement, in an amount equal to the amount of the deposit, less the actual cost of reproduction of the documents if the set is returned in good condition within thirty (30) days following the award of the contract or the rejection of the bids covered by such plans and specifications.

VERBAL ANSWERS

The School District, its agents, servants, employees and the Architect/Engineer shall not be responsible in any manner for **verbal** answers to inquiries made regarding the meaning of the contract documents, drawings or the specifications prior to the awarding of the contract.

For information with reference to the work and its location during bid phase by prospective bidders' questions shall be submitted in writing to:

Cole Podolsky Sr. Project Designer H2M Architects + Engineers 538 Broad Hollow Road, Suite 4E Melville, New York 11747 Phone: (63) 756-8000 ext. 1323 Fax: (631) 894-4122 E-mail: cpodolsky@h2m.com

To be given consideration, questions must be received in writing at least ten (10) days prior to the date fixed for the opening of bids.

ADDENDA AND INTERPRETATIONS

No interpretations of the meaning of the plans, specifications or other Contract Documents will be made to any bidder orally. Every request for such interpretation shall be made in writing, addressed to:

Cole Podolsky Sr. Project Designer H2M Architects + Engineers 538 Broad Hollow Road, Suite 4E Melville, New York 11747 Phone: (63) 756-8000 ext. 1323 Fax: (631) 894-4122 E-mail: cpodolsky@h2m.com

To be given consideration, questions must be received <u>in writing</u> at least ten (10) days prior to the date fixed for the opening of bids. Any and all interpretations and any supplement instructions will be in the form of written addenda to the specifications, and will be sent by mail or faxed to each of the Contractors who has taken out the Drawings and Contract Documents.

All addenda so issued shall become part of the Contract Documents. If any addenda may materially affect the bid, as solely determined by the School District, the School District may extend the bid date.

PRE-BID INSPECTION OF SITE

Each bidder shall conduct on-site inspections of the referenced project site during the pre-bid walkthrough prior to submission of a bid proposal. The bidder shall acquaint himself/herself with all apparent conditions and characteristics of the facility with regard to assessment of required materials

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quantities, evaluation of quality of existing materials, access to the site and equipment, location of underground utilities, clearances and all related information necessary to develop an understanding of the required scope of the work and all field conditions. Bidders must satisfy themselves by personal examination of the location of the proposed work and of the actual conditions and requirements of the work and shall not, at any time after the submission of the Proposal, dispute or complain of such estimate or assert there was any misunderstanding in regard to the depth or character or the nature of the work to be done. No consideration will be given for subsequent additional claims by the successful bidder after bidding with regard to apparent field conditions.

PRE-BID CONFERENCE

See Section "Notice to Bidders"

BIDDER TO BE FAMILIAR WITH PLANS AND REQUIREMENTS

It is the bidder's responsibility to examine carefully the plans and specifications, proposal and the site upon which the work is to be performed. A proposal submitted shall be prima facie evidence that the bidder has made such examination and that he/she is familiar with all of the conditions and requirements.

PREPARATION OF PROPOSAL

The Proposal forms for project contained herein must be used in preparing bids. Failure to use said Proposal forms or the inclusion of bids not requested shall result in rejection of the bid.

No proposal shall be considered by the School District unless the bidder tendering same demonstrates that it is skilled in work of a similar nature to that envisaged in the Contract/Bidding Documents.

Each bidder shall fill out in ink (in both words and figures) and signed by an officer of the corporation in the spaces provided, its unit or lump sum bid, as the case may be, for each item in the Proposal. If there is a discrepancy between the prices in words and figures, the prices in words shall govern as unit and lump sum prices.

No bid will be considered which does not include bids for all items listed in the proposal sheets.

NAME OF BIDDER

Each bidder must state in the Proposal its full name and business address, and the full name of every person, firm or corporation interested therein and the address of every person or firm, or president and secretary of every corporation interested with it; if no other person, firm or corporation be so interested, it must affirmatively state such fact. The Bidder must also state that the Proposal is made without any connection (directly or indirectly) with any other bidder for the work mentioned in its proposal and is (in all respects) without fraud or collusion; it has inspected the site of the work, has examined the Contract, General Conditions, Specifications, Plans, all addenda, and Information for Bidders; no person acting for or employed by the school district is directly or indirectly interested therein, or in the supplies or work to which it relates or in any portion of the prospective profits thereof; it proposes and agrees if its proposal or bid is accepted, to execute a contract with the school district to perform the work mentioned in the contract, plans and specifications attached; for the amount stated in the bid proposal.

CERTIFIED CHECK OR BID BOND/BONDING CERTIFICATION

Each bid must be accompanied by either a certified check drawn on a solvent bank with an office in the State of New York, or a bid bond equal to ten percent (10 %) of the total amount of the project bid, and payable to the "WHITE PLAINS CITY SCHOOL DISTRICT". This amount shall be the measure of liquidated damages sustained by the School District as a result of the failure, negligence or refusal of the Bidder to whom the contract is awarded to execute and deliver the contract. Provide a certified statement that the bonding company meets or exceeds the requirements set forth in Article 11 of the General Conditions.

A Performance and Payment bond will be required for the work. Each shall be in the amount of 100% of the contract sum. Refer to Article 11 of the General Conditions for requirements associated with such bonds.

PERMITS AND REGULATIONS

Each Contractor shall give all notices and comply with all laws, ordinances, rules and regulations bearing on the conduct of the work as drawn and specified. Each Contractor is required to observe all laws and ordinances including, but not limited to, relating to the obstructing of streets, maintaining signals, keeping open passageways and protecting them where exposed to danger, and all general ordinances affecting him, his employees, or his work hereunder in his relations to the School District or any person. Each contractor shall also obey all laws and ordinances controlling or limiting the Contractor while engaged in the prosecution of the work under this Contract.

If the Contractor observes that the drawings and specifications are at variance with laws and regulations, he/she shall promptly notify the Architect in writing and any necessary changes shall be adjusted as provided in the contract for changes in the work. If the Contractor performs any work knowing it be contrary to such laws, ordinances, rules, regulations, or specifications, or local, state or federal authorities without such notice to the Architect, he/she bear all costs arising therefrom.

CONTRACTOR'S UNDERSTANDING

It is understood and agreed that the bidder has, by careful examination, satisfied himself/herself as to the nature and location of the Work, and confirmation of the ground, the character, quality and quantity of the materials to be encountered, the character of equipment and facilities needed preliminary to and during the prosecution of the work, the general and local conditions, and all other matters which can in any way affect the work under the contract intended to be awarded.

No official, officer or agent of the School District is authorized to make any representations as to the materials or workmanship involved or the conditions to be encountered and the bidder agrees that no such statement or the evidence of any documents or plans, not a part of the contract to be awarded, shall constitute any grounds for claim as to conditions encountered. No verbal agreement or conversation with any officer, agent or employee of the School District either before or after the execution of this Contract, shall affect or modify any of the terms or obligations herein contained.

It is understood and agreed that the bidder has informed himself fully as to the conditions relating to construction and labor under which the work will be performed and agrees as far as possible to employ

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such methods and means in the performance of his work so as not to cause interruption or interference with the School District's operations or any other contractor performing work at the project site.

EQUIVALENTS

A. In the Specifications, one or more kinds, types, brands, or manufacturers or materials listed are regarded as the required standard of quality and are presumed to be equal. The bidder may select one of these items or, if the bidder desires to use any kind type, brand, or manufacturer or material other than those named in the specifications, they shall indicate in writing when requested, and prior to award of contract, what kind, type, brand or manufacturer is included in the base bid for the specified item.

B. Submission for equivalents shall be submitted to the Architect prior to the award of the contract.

C. Refer to Article 6(W) of the General Conditions for submission requirements. Bidder shall provide the Architect with the same documentation as required for substituted materials as set forth in Article 6(X) of the General Conditions.

BID EVALUATION

The School District and the Architect may make such investigation as they deem necessary to determine the ability of the bidder to perform the work, and the bidder shall furnish the School District with all such additional information and data for this purpose as may be requested. The School District reserves the right to reject any bid if the evidence submitted by, or investigation of such bidder fails to satisfy the School District that such bidder is properly qualified to carry out the obligations of the Contract and to complete the work contemplated therein.

BID WITHDRAWAL

No bids may be withdrawn for a period of 45 days after opening of bids. The School District may request an extension in writing, if necessary, for bidders to hold their bid for an additional 45 days.

SCHOOL DISTRICT RESERVATION OF RIGHTS

The School District reserves the right to waive what it deems to be informalities relating to a specific bid, to waive what it deems to be technical defects, irregularities and omissions relating to a specific bid, to reject any or all bids, to request additional information from any bidder or to re-advertise and invite new bids.

CONTRACTOR'S QUALIFICATION STATEMENT (POST BID)

The apparent low bidder must submit the required pre-award submittal package described below to the School District's Construction Representative within 48 hours after the bids are opened.

Triton Construction Co., Inc.

Attn: John Hansen

1279 Route 300, 1st Floor

Newburgh, NY 12550

Phone: (212) 388-5700

Email: jhansen@tritonconstruction.net

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Submissions must be emailed and must include the Project Name of this contract in the Subject Line of the Pre-Award submission email.

1. Pre-award Submittal Package

- a. Fully execute AIA-A305 Contractors Qualification Statement.
- b. Most recent financial statement by CPA.
- c. References and experience:
 - (1) List of all past contracts with K-12 Public School Districts.

(2) Provide three (3) references (Name, Title, Phone Number and email) of persons associated with three (3) different projects (public or private sector) of similar scope and size to the one identified in this contract. Additionally, include the names of two major suppliers used for each of these three (3) projects.

2. Workforce and Work Plan - Provide a detailed written Work Plan which shall / demonstrate the contractor's understanding of overall project scope and shall include, but not be limited, to the following:

- a. Sequential listing of specific project activities required to successfully complete the Work of the Contract.
 - (1) Include Schedule and list Critical Milestones.
 - (2) Include Phasing of the work, if required.
 - (3) Include listing of long lead-time items.
 - (4) Impact of weather and restricted work periods.
 - (5) Signed statement from a company officer that the Project can be completed in the established construction duration listed in the contract documents.

b. Resumes for the contractor's proposed project site supervisor and staff including qualifications for specialized expertise or any certifications required to perform the Work.

c. Names of proposed major sub-contractors (more than 15% of the bid amount) and a listing of the related trade work and value.

d. Any special coordination requirements with other trades or ongoing contracts under separate contract(s).

e. Any special storage and/ or staging requirements for construction materials required for the work.

f. Any other special requirements including those noted in the contract documents or known to the contractor / subcontractor(s).

3. Detailed Cost Estimate:

a. A copy of Detailed Cost Estimate outlined in CSI format for the contract work.

NOTICE OF ACCEPTANCE

The School District shall give notice of acceptance of a bid by either registered or certified mail, sent within forty five (45) days after the bids have been opened unless the time to award has been extended.

SIGNING OF CONTRACT

Each Bidder to whom a contract is awarded, shall, at the office of the School District within ten (10) business days after the date of notification by either registered or certified mail of acceptance of its proposal furnish the required payment and performance bonds in an amount of 100% of the contract, and the required insurance as set forth in Article 10 of the General Conditions, and sign the contract for the work for its performance and maintenance.

INSURANCE

The amounts, types and clauses to be included in the insurance is required to be carried by the successful bidder and its contractors, are listed as set forth in Article 10 of the General Conditions.

WAIVER OF IMMUNITY

Attention is directed to the statement of non-collusion required by Article 5A of the "General Municipal Law of the State of New York" concerning Waiver of Immunity and included in the attached Agreement.

RESPONSIBILITY OF BIDDER

The attention of Bidders is directed particularly to the contract provisions whereby the Contractor will be responsible for any loss or damage that may occur to the work or any part thereof during its progress and whereby the Contractor must make good any defects or faults in the work that may occur during the progress or within two (2) years after its acceptance.

Each Contractor shall provide for the continuation of the Performance Bond as a Maintenance Bond for two (2) full years after date of final payment request at the full contract price.

The work is to be performed and completed to the satisfaction of the School District & Architect/Engineer and in accordance with the specifications annexed hereto and the plans referred to therein.

LABOR RATES

Each Bidder awarded a contract shall pay not less than the minimum hourly wage rates on those contracts as established in accordance with Section 220 of the Labor Law as shown in the schedule.

Article 8, Section 220 of the Labor Law, as amended by Chapter 750 of the Laws of 1956, provides (among other things) that it shall be the duty of the fiscal officer to make a determination of the schedule of wages to be paid to all laborers, workers and mechanics employed on public work projects, including supplements for welfare, pension, vacation and other benefits. These supplements include hospital, surgical or medical insurance, or benefits; life insurance or death benefits; accidental death or dismemberment insurance; and pension or retirement benefits. If the amount of supplements provided by the employer is less than the total supplements shown on the wage schedule, the difference shall be paid in cash to the employee.

Article 8, Section 220 of the Labor Law, as amended by Chapter 750 of the Laws of 1956, also provides that the supplements to be provided to laborers, workers and mechanics upon public work, "...shall be in accordance with the prevailing practices in the locality..." The amount for supplements listed on the enclosed schedule does not necessarily include all types of prevailing supplements in the locality, and a future determination of the Industrial Commissioner may require the Contractor to provide additional supplements.

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The original payrolls or transcripts shall be preserved for three (3) years from the completion of the work on the awarded project by the Bidders awarded a contract. The School District shall receive such payroll record upon completion of project.

> WHITE PLAINS CITY SCHOOL DISTRICT Board of Education 5 Homeside Lane White Plains NY 10605



Note: The bidder is asked to use either black ink or typewriter (black ribbon) in completing this proposal form. Each line item amount must be completed. Failure to do so will be grounds for disqualification of the bidder.

BASE BID: Contract C – Civil Construction Work

ITEM 1 – BONDS and INSURANCES

(written in words)	(\$)
ITEM 2 – DIVISION 1 – GENERAL REQUIREMENTS		
(written in words)	(\$)
ITEM 3 – DIVISION 1 – PROJECT SUPERVISION		
(written in words)	(\$)
ITEM 4 – DIVISION 2 – DEMOLITION WORK		
(written in words)	(\$)
ITEM 5 – DIVISION 31 – EARTHWORK		
(written in words)	(\$)
ITEM 6 – DIVISION 32 – EXTERIOR IMPROVEMENTS		
(written in words)	(\$)
ITEM 7 – DIVISION 33 – UTILITIES		
(written in words)	(\$)
ITEM 8 – PROJECT CLOSEOUT		
(written in words)	(\$)
ALLOWANCE C1 – ALLOWANCE FOR GENERAL CONTINGENCY		
(written in words) Fifty Thousand Dollars and 00 Cents	(\$50,000.00)
ALLOWNACE C2 – ALLOWANCE FOR ROCK REMOVAL		
(written in words) Fifty Thousand Dollars and 00 Cents	(\$50,000.00)
ALLOWNACE C3 – ALLOWANCE FOR TRENCH DRAIN REPLACEMENT		
(written in words) <u>Twenty Thousand Dollars and 00 Cents</u>	(\$20,000.00)
ALLOWNACE C4 – ALLOWANCE FOR ASPHALT PAVING REPLACEMENT		
(written in words) <u>Thirty Thousand Dollars and 00 Cents</u>	(\$30,000.00)



)

TOTAL BASE BID (ITEMS 1 – 8 INCLUSIVE, PLUS ALLOWANCE C1, C2 AND C3)

(written in words)	 (\$
(written in words)	 (\$

ALTERNATES

The contractor shall clearly state whether cost indicated is to be added to or deducted from the base bid cost. Failure to clearly state same will be grounds for disqualification of the bidder.

All work included under this heading shall be subject to the general conditions of the project. All construction, workmanship and finishes required by the alternates shall be as specified in the applicable sections of the specifications manual.

The undersigned proposes and agrees that should the following alternates be accepted and included in the contract, the amount of the TOTAL BASE BID will be revised as follows. The undersigned further agrees that should the following Alternates be accepted at a subsequent date, after the base bid contract is awarded, due to additional funds provided to the school district through a Smart Schools Bond Act, the alternate bid prices indicated shall be held and honored for a period of one year from the date of contract signing.

NUMBER	DESCRIPTION	COST
ALT-C1 (Add)	Contractor to provide all general construction and demolition work associated with the removal and disposal of existing track system, and associated items where indicated in drawings. Contractor to provide and install new track system and associated items where indicated in drawings. This alternate shall include all material and labor for this work.	(\$)
ALT-C2 (Add)	Builder's Risk Insurance: All costs associated with providing and purchasing a Builder's Risk Insurance Policy to include interest of the Owner and Contractor jointly in a form satisfactory to the owner. The limit must reflect the total completed value – all material and labor costs and provide coverage for fire, lightning, explosion, extended coverage, vandalism, malicious mischief, windstorm, hail and/or flood.	(\$)

UNIT PRICES

The contract shall include unit prices as herein stated. Should the amount of work required by the contract documents be increased or decreased, the following unit prices shall be used as a basis for computing the cost to the district, or the credit due the district as the case may be, for such increases or decreases in the work. The listed unit prices will also be used for determining the value of quantities included in the specifications. Prices shall reflect the basis for furnishing all labor, material, equipment and other related items necessary for completion of work (in place). The quoted figure shall include contractor's overhead and profit.

THE OWNER/ARCHITECT HEREBY RESERVES THE RIGHT TO ORDER ANY ADDITION OR DEDUCTION OF MATERIALS ON BASIS OF UNIT COST FIGURES QUOTED.

NUMBER	DESCRIPTION	COST
CU-1	Trench Rock Provide all labor, material and equipment to trench rock and replace with compacted structural fill, to be used as an add or deduct from allocation of bid allowance. Unit of Measurement: per cubic yard of trench rock measured in place.	\$cy

CU-2	Trench Drain Replacement Provide all labor, material and equipment to remove and replace damaged existing track trench drain system in kind, to be used as an add or deduct from allocation of bid allowance. Unit of Measurement: per linear foot of trench drain replacement.	\$Inft
CU-3	Asphalt Paving Replacement Provide all labor, material and equipment to demolish and replace existing asphalt paving system in kind, to be used as an add or deduct from allocation of bid allowance. Unit of Measurement: per ton of asphalt paving.	\$ton

Note: The WHITE PLAINS CITY SCHOOL DISTRICT is exempt from Federal, New York State and local taxes. TOTAL AMOUNT BID shall be exclusive of all taxes.

EACH BIDDER <u>SHALL SUBMIT WITH IT'S BID A SEPARATE SEALED LIST THAT NAMES THE SUBCONTRACTORS</u> THAT THE BIDDER WILL USE TO PERFORM WORK AND THE AGREED UPON AMOUNT TO BE PAID FOR A.) HEATING, VENTILATION AND AIR-CONDITIONING WORK, B.) PLUMBING WORK AND C.) ELECTRICAL WORK. AFTER THE LOW BID IS ANNOUNCED, THE SEALED LIST OF SUBCONTRACTORS SUBMITTED BY THE APPARENT LOW BIDDER SHALL BE OPENED AND THE NAMES OF THE SUBCONTRACTORS ANNOUNCED. ANY CHANGE OF SUBCONTRACTOR OR AGREED UPON AMOUNT TO BE PAID SHALL REQUIRE THE APPROVAL OF THE PUBLIC OWNER, UPON A SHOWING OF "LEGITIMATE CONSTRUCTION NEED" FOR SUCH CHANGE.

"LEGITIMATE CONSTRUCTION NEED" SHALL INCLUDE, BUT NOT BE LIMITED TO:

A CHANGE IN PROJECT SPECIFICATIONS, A CHANGE IN CONSTRUCTION MATERIAL COSTS, A CHANGE IN SUBCONTRACTOR STATUS, OR THE SUBCONTRACTOR HAS BECOME UNWILLING, UNABLE OR UNAVAILABLE TO PERFORM THE SUBCONTRACT.

THE SEALED LISTS OF SUBCONTRACTORS SUBMITTED BY ALL OTHER BIDDERS SHALL BE RETURNED TO THEM UNOPENED AFTER THE CONTRACT AWARD.

PAYMENTS TO SUBCONTRACTORS AND MATERIAL MEN MUST BE MADE WITHIN 7 CALENDAR DAYS AS OPPOSED TO 15 CALENDAR DAYS OF THE RECEIPT OF PAYMENT FORM THE PUBLIC OWNER. FAILURE TO PAY WITHIN 7 CALENDAR DAYS WILL RESULT IN INTEREST DUE FOR ALL CALENDAR DAYS SUBSEQUENT TO THE SEVENTH DAY THROUGH THE DATE THAT PAYMENT IS MADE.

THE BIDDER UNDERSTANDS THAT THE OWNER RESERVES THE RIGHT TO REJECT ANY OR ALL BIDS AND TO WAIVE ANY INFORMALITIES IN THE BIDDING.

THE BIDDER AGREES THAT THE BID SHALL BE GOOD AND MAY NOT BE WITHDRAWN FOR A PERIOD OF **FORTY-FIVE (45)** CALENDAR DAYS AFTER THE SCHEDULED CLOSING TIME FOR RECEIVING BIDS.

THE BIDDER HAS SUBMITTED ALL REQUESTS FOR OTHER BRAND NAMES OR PRODUCTS NOT LISTED IN THE SPECIFICATIONS IN ACCORDANCE WITH ARTICLE 6(W) OF THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION.



SITE SUPERVISION

THE SUCCESSFUL CONTRACTOR IS TO PROVIDE FULL TIME SITE SUPERVISION FOR HIS OR HER STAFF, SUBCONTRACTORS AND SUPPLIERS FOR THE DURATION OF THIS PROJECT. A COMPETENT SUPERINTENDENT SHALL BE IN ATTENDANCE AT THE JOB SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED UNDER THEIR CONTRACT. THE SUPERINTENDENT IS RESPONSIBLE TO VISIT THE JOB SITE DAILY WHEN WORK IS NOT BEING PERFORMED UNDER THEIR CONTRACT AND TO MONITOR THE OVERALL CONSTRUCTION PROGRESS. A QUALIFIED SITE SUPERINTENDENT MUST HAVE THE AUTHORITY TO REPRESENT AND MAKE DECISIONS FOR HIS OR HER COMPANY WITH REGARDS TO THE SUBJECT JOB, MUST BE ABLE TO GIVE GUIDANCE AND DIRECTION TO EMPLOYEES, SUBCONTRACTORS AND SUPPLIERS, AND MUST BE KNOWLEDGEABLE ABOUT THE WORK TO BE PROVIDED. FAILURE TO PROVIDE A QUALIFIED SITE SUPERINTENDENT AT THE JOB SITE SHALL SUBJECT SAID PRIME CONTRACTOR TO A PENALTY OF \$1,000 PER DAY FOR EVERY OCCURRENCE.

TIME OF COMPLETION

ALL WORK UNDER THIS CONTRACT SHALL BE COMPLETED BETWEEN THE FOLLOWING HOURS, IN ACCORDANCE WITH THE FOLLOWING DATES:

WORK DAYS:

WORK HOURS:

CONSTRUCTION START DATE:

NEW TURF FIELD CONSTRUCTION DATES:

LOUCKS TRACK CONSTRUCTION DATES:

SUBSTANTIAL COMPLETION:

FINAL COMPLETION:

August 31, 2024

August 18, 2024

Monday – Saturday

7:00 AM - 8:00 PM

October 1, 2023

November 1 2023 - July 31, 2024

June 1, 2024 - August 31, 2024

IF NECESSARY, WEEKEND, HOLIDAY AND EVENING WORK SHALL BE PROVIDED TO ENSURE THE COMPLETION DATES LISTED ABOVE, AT THE SOLE COST AND EXPENSE OF THE BIDDER.

FAILURE OF THE CONTRACTOR TO COMPLETE WORK BY THE SPECIFIED TIME SHALL SUBJECT HIM/HER TO LIQUIDATED DAMAGES AS SET FORTH IN ARTICLE 13 OF THE GENERAL CONDITIONS.

THE ARCHITECT/ENGINEER SHALL ACT AS THE RECORD KEEPER OF CONTRACT DAYS; HE WILL BE THE SOLE JUDGE OF DELAYS CAUSED BY WEATHER. ONLY WEATHER DELAYS, AS ADJUDGED BY THE ARCHITECT/ENGINEER, WILL BE CONSIDERED FOR EXTENSIONS OF THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL SUBMIT A BI-WEEKLY REQUEST FOR DELAYS DUE TO WEATHER TO THE ARCHITECT/ENGINEER FOR APPROVAL. NO OTHER DELAY CLAIMS WILL BE ACCEPTED, FOR CREDIT TOWARDS THE PROJECT COMPLETION SCHEDULE, REGARDLESS OF THE SOURCE OF THE DELAY.

FAILURE OF THE CONTRACTOR TO COMPLETE ALL WORK SHOWN AND SPECIFIED IN THE CONTRACT DOCUMENTS, BY ALL OF THE SPECIFIED TIME FRAMES, SHALL SUBJECT THE CONTRACTOR TO LIQUIDATED DAMAGES, AS SET FORTH IN ARTICLE 13 OF THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, IN THE SUM OF ONE THOUSAND DOLLARS (\$1,000.00) PER CALENDAR DAY. SUCH DAMAGES WILL COMMENCE ON THE DAY



AFTER THE COMPLETION DATE OR THE DAY AFTER ANY LISTED MILESTONE DATE IN THE NOTICE TO PROCEED.

WITHIN TEN (10) CONSECUTIVE CALENDAR DAYS AFTER THE DATE OF THE NOTICE OF AWARD, THE BIDDER SHALL EXECUTE THE CONTRACT AND FURNISH THE REQUIRED PERFORMANCE BOND, PAYMENT BOND AND INSURANCES.

THE BOARD OF EDUCATION OF THE DISTRICT RESERVES THE RIGHT TO AWARD THIS CONTRACT TO OTHER THAN THE LOW BIDDER IF THE LAW SO PERMITS.

THE UNDERSIGNED HEREBY ACKNOWLEDGES RECEIPT OF THE FOLLOWING ADDENDA (IF ANY):

ADDENDUM NO.

DATED

SPECIFIC DAMAGES WILL BE ASSESSED AND DEDUCTED FROM AMOUNTS OTHERWISE DUE THE CONTRACTOR FOR ADDITIONAL INSPECTION (FIELD) AND CONTRACT ADMINISTRATION (OFFICE) TIME EXPENDED BY THE ARCHITECT/ENGINEER AND/OR OTHER CONSTRUCTION EMPLOYEE(S) HIRED TO ADMINISTER OR OBSERVE THE CONTRACT, SHOULD THE CONTRACTOR COMPLETE THE CONTRACT BEYOND THE CONTRACT COMPLETION PERIOD SPECIFIED ABOVE.

SUCH DEDUCTION SHALL BE IN ACCORDANCE WITH THE ARCHITECT, ENGINEER'S, AND/OR OTHER CONSTRUCTION EMPLOYEE(S) STANDARD HOURLY BILLING RATES IN EFFECT AT THE TIME FOR THE SCHOOL DISTRICT.

THE REQUIREMENTS OF THE PROPOSAL HAVE BEEN COMPLETELY READ, UNDERSTOOD AND ACKNOWLEDGED BY THE BIDDER.

BIDDER: _____

BIDDER'S ADDRESS:

SIGNED BY: ______ TITLE: _____

DATE			

Telephone number where the contractor or a competent representative can accept a telephone message and provide a reasonable reply as soon as possible, but not later than twenty-four (24) hours:

DAY: (_____ NIGHT: (____)

FAX:	()	

FEDERAL I.D. NO. OR SOCIAL SECURITY NO.:



Note: The bidder is asked to use either black ink or typewriter (black ribbon) in completing this proposal form. Each line item amount must be completed. Failure to do so will be grounds for disqualification of the bidder.

BASE BID: Contract E – Electrical Construction Work

ITEM 1 – BONDS and INSURANCES		
(written in words)	(\$)
ITEM 2 – DIVISION 1 – GENERAL REQUIREMENTS		
(written in words)	(\$)
ITEM 3 – DIVISION 1 – PROJECT SUPERVISION		
(written in words)	(\$)
ITEM 4 – DIVISION 2 – EXISTING CONDITIONS & DEMOLITION WORK		
(written in words)	(\$)
ITEM 5 – DIVISION 7 – FIRE STOPPING		
(written in words)	(\$)
ITEM 6 – DIVISION 26 – ELECTRICAL DEMOLITION		
(written in words)	(\$)
ITEM 7 – DIVISION 26 – GROUNDING AND BONDING		
(written in words)	(\$)
ITEM 8 – DIVISION 26 – SUPPORT DEVICES and HANGERS		
(written in words)	(\$)
ITEM 9 – DIVISION 26 – ELECTRICAL IDENTIFICATION		
(written in words)	(\$)
ITEM 10 – DIVISION 26 – SWITCHGEAR		
(written in words)	(\$)
ITEM 11 – DIVISION 26 – PANELBOARDS		
(written in words)	(\$)
ITEM 12 – DIVISION 26 – WIRING DEVICES		
(written in words)	(\$)

ITEM 13 – DIVISION 26 UTILITY SERVICES

(written in words)	_(\$)
ITEM 14 – DIVISION 28 – TEMPORARY CONTROLS		
(written in words)	_(\$)
ITEM 15 – DIVISION 31 & 32 – EARTHWORK & EXTERIOR IMPROVEMENTS		
(written in words)	_(\$)
ITEM 16 – AS-BUILT DRAWINGS		
(written in words)	_(\$)
ITEM 17 – PROJECT CLOSEOUT		
(written in words)	_(\$)
ALLOWANCE E1 – ALLOWANCE FOR GENERAL CONTINGENCY		
(written in words) Fifty Thousand Dollars and 00 Cents	(\$50,000.00)
TOTAL BASE BID (ITEMS 1 –17 INCLUSIVE, PLUS ALLOWANCE E1)		
(written in words) (\$)

ALTERNATES

The contractor shall clearly state whether cost indicated is to be added to or deducted from the base bid cost. Failure to clearly state same will be grounds for disqualification of the bidder.

All work included under this heading shall be subject to the general conditions of the project. All construction, workmanship and finishes required by the alternates shall be as specified in the applicable sections of the specifications manual.

The undersigned proposes and agrees that should the following alternates be accepted and included in the contract, the amount of the TOTAL BASE BID will be revised as follows. The undersigned further agrees that should the following Alternates be accepted at a subsequent date, after the base bid contract is awarded, due to additional funds provided to the school district through a Smart Schools Bond Act, the alternate bid prices indicated shall be held and honored for a period of one year from the date of contract signing.

NUMBER	DESCRIPTION	COST	
ALT-E1 (Add)	Contractor shall include all labor and material cost associated with electrical work in Wing A in this alternate. Refer to floor plans for additional information.	(\$)
ALT-E2 (Add)	Contractor shall include all labor and material cost associated with electrical work in Wing B in this alternate. Refer to floor plans for additional information.	(\$)



ALT-E3 (Add)	Contractor shall include all labor and material cost associated with electrical work in Wing G in this alternate. Refer to floor plans for additional information.	(\$)
ALT-E4 (Add)	Contractor shall include all labor and material cost associated with electrical work in Wing E in this alternate. Refer to floor plans for additional information.	(\$)
ALT-E5 (Add)	Contractor shall include all labor and material cost associated with providing and install the field sports lighting and associated control panel, accessories and hardware in this alternate. Base bid will only include empty conduits and associated pullboxes with nylon pull strings. Refer to site plan for additional information.	(\$)
ALT-E6 (Add)	Contractor shall include all labor and material cost associated with providing and installing new exterior scoreboards and associated items where indicated in drawings in this alternate.	(\$)
ALT-E7 (Add)	Contractor shall include all labor and material cost associated with new spare conduit with nylon pull strings and pull box(s) for field 10. Refer to site plan for additional information.	(\$)
ALT-E8 (Add)	Builder's Risk Insurance: All costs associated with providing and purchasing a Builder's Risk Insurance Policy to include interest of the Owner and Contractor jointly in a form satisfactory to the owner. The limit must reflect the total completed value – all material and labor costs and provide coverage for fire, lightning, explosion, extended coverage, vandalism, malicious mischief, windstorm, hail and/or flood	(\$)

Note: The WHITE PLAINS CITY SCHOOL DISTRICT is exempt from Federal, New York State and local taxes. TOTAL AMOUNT BID shall be exclusive of all taxes.

EACH BIDDER SHALL SUBMIT WITH IT'S BID A SEPARATE SEALED LIST THAT NAMES THE SUBCONTRACTORS THAT THE BIDDER WILL USE TO PERFORM WORK AND THE AGREED UPON AMOUNT TO BE PAID FOR A.) HEATING, VENTILATION AND AIR-CONDITIONING WORK, B.) PLUMBING WORK AND C.) ELECTRICAL WORK. AFTER THE LOW BID IS ANNOUNCED, THE SEALED LIST OF SUBCONTRACTORS SUBMITTED BY THE APPARENT LOW BIDDER SHALL BE OPENED AND THE NAMES OF THE SUBCONTRACTORS ANNOUNCED. ANY CHANGE OF SUBCONTRACTOR OR AGREED UPON AMOUNT TO BE PAID SHALL REQUIRE THE APPROVAL OF THE PUBLIC OWNER, UPON A SHOWING OF "LEGITIMATE CONSTRUCTION NEED" FOR SUCH CHANGE.

"LEGITIMATE CONSTRUCTION NEED" SHALL INCLUDE, BUT NOT BE LIMITED TO:

A CHANGE IN PROJECT SPECIFICATIONS, A CHANGE IN CONSTRUCTION MATERIAL COSTS, A CHANGE IN SUBCONTRACTOR STATUS, OR THE SUBCONTRACTOR HAS BECOME UNWILLING, UNABLE OR UNAVAILABLE TO PERFORM THE SUBCONTRACT.

THE SEALED LISTS OF SUBCONTRACTORS SUBMITTED BY ALL OTHER BIDDERS SHALL BE RETURNED TO THEM UNOPENED AFTER THE CONTRACT AWARD.

PAYMENTS TO SUBCONTRACTORS AND MATERIAL MEN MUST BE MADE WITHIN 7 CALENDAR DAYS AS OPPOSED TO 15 CALENDAR DAYS OF THE RECEIPT OF PAYMENT FORM THE PUBLIC OWNER. FAILURE TO PAY WITHIN 7 CALENDAR DAYS WILL RESULT IN INTEREST DUE FOR ALL CALENDAR DAYS SUBSEQUENT TO THE SEVENTH DAY THROUGH THE DATE THAT PAYMENT IS MADE.

H 2 M

THE BIDDER UNDERSTANDS THAT THE OWNER RESERVES THE RIGHT TO REJECT ANY OR ALL BIDS AND TO WAIVE ANY INFORMALITIES IN THE BIDDING.

THE BIDDER AGREES THAT THE BID SHALL BE GOOD AND MAY NOT BE WITHDRAWN FOR A PERIOD OF **FORTY-FIVE (45)** CALENDAR DAYS AFTER THE SCHEDULED CLOSING TIME FOR RECEIVING BIDS.

THE BIDDER HAS SUBMITTED ALL REQUESTS FOR OTHER BRAND NAMES OR PRODUCTS NOT LISTED IN THE SPECIFICATIONS IN ACCORDANCE WITH ARTICLE 6(W) OF THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION.

SITE SUPERVISION

THE SUCCESSFUL CONTRACTOR IS TO PROVIDE FULL TIME SITE SUPERVISION FOR HIS OR HER STAFF, SUBCONTRACTORS AND SUPPLIERS FOR THE DURATION OF THIS PROJECT. A COMPETENT SUPERINTENDENT SHALL BE IN ATTENDANCE AT THE JOB SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED UNDER THEIR CONTRACT. THE SUPERINTENDENT IS RESPONSIBLE TO VISIT THE JOB SITE DAILY WHEN WORK IS NOT BEING PERFORMED UNDER THEIR CONTRACT AND TO MONITOR THE OVERALL CONSTRUCTION PROGRESS. A QUALIFIED SITE SUPERINTENDENT MUST HAVE THE AUTHORITY TO REPRESENT AND MAKE DECISIONS FOR HIS OR HER COMPANY WITH REGARDS TO THE SUBJECT JOB, MUST BE ABLE TO GIVE GUIDANCE AND DIRECTION TO EMPLOYEES, SUBCONTRACTORS AND SUPPLIERS, AND MUST BE KNOWLEDGEABLE ABOUT THE WORK TO BE PROVIDED. FAILURE TO PROVIDE A QUALIFIED SITE SUPERINTENDENT AT THE JOB SITE SHALL SUBJECT SAID PRIME CONTRACTOR TO A PENALTY OF \$1,000 PER DAY FOR EVERY OCCURRENCE.

TIME OF COMPLETION

ALL WORK UNDER THIS CONTRACT SHALL BE COMPLETED BETWEEN THE FOLLOWING HOURS, IN ACCORDANCE WITH THE FOLLOWING DATES:

WORK DAYS:	Monday – Saturday
WORK HOURS:	7:00 AM - 8:00 PM
CONSTRUCTION START DATE:	October 1, 2023
CORRIDOR CEILINGS - WINGS C&D (BASE BID):	October 1 2023 – Jan 31, 2024 (Second Shift)
CORRIDOR CEILINGS - WING A&B (ALTS. E1 & E2):	February 1, 2024 – May 31, 2024 (Second Shift)
CORRIDOR CEILINGS - WING G&E (ALTS. E3 & E4):	June 1, 2024 – August 31, 2024 (Second Shift > Normal Shift)
FIELD SPORTS LIGHTING & SCOREBOARDS CONSTRUCTION DATES (ALTS. E5, E6 & E7):	November 1 2023 – July 31, 2024 (Second Shift > Normal Shift)
SUBSTANTIAL COMPLETION:	August 18, 2024
FINAL COMPLETION:	August 31, 2024

IF NECESSARY, WEEKEND, HOLIDAY AND EVENING WORK SHALL BE PROVIDED TO ENSURE THE COMPLETION DATES LISTED ABOVE, AT THE SOLE COST AND EXPENSE OF THE BIDDER.

FAILURE OF THE CONTRACTOR TO COMPLETE WORK BY THE SPECIFIED TIME SHALL SUBJECT HIM/HER TO LIQUIDATED DAMAGES AS SET FORTH IN ARTICLE 13 OF THE GENERAL CONDITIONS.

THE ARCHITECT/ENGINEER SHALL ACT AS THE RECORD KEEPER OF CONTRACT DAYS; HE WILL BE THE SOLE JUDGE OF DELAYS CAUSED BY WEATHER. ONLY WEATHER DELAYS, AS ADJUDGED BY THE ARCHITECT/ENGINEER, WILL BE CONSIDERED FOR EXTENSIONS OF THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL SUBMIT A BI-WEEKLY REQUEST FOR DELAYS DUE TO WEATHER TO THE ARCHITECT/ENGINEER FOR APPROVAL. NO OTHER DELAY CLAIMS WILL BE ACCEPTED, FOR CREDIT TOWARDS THE PROJECT COMPLETION SCHEDULE, REGARDLESS OF THE SOURCE OF THE DELAY.

FAILURE OF THE CONTRACTOR TO COMPLETE ALL WORK SHOWN AND SPECIFIED IN THE CONTRACT DOCUMENTS, BY ALL OF THE SPECIFIED TIME FRAMES, SHALL SUBJECT THE CONTRACTOR TO LIQUIDATED DAMAGES, AS SET FORTH IN ARTICLE 13 OF THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, IN THE SUM OF ONE THOUSAND DOLLARS (\$1,000.00) PER CALENDAR DAY. SUCH DAMAGES WILL COMMENCE ON THE DAY AFTER THE COMPLETION DATE OR THE DAY AFTER ANY LISTED MILESTONE DATE IN THE NOTICE TO PROCEED.

WITHIN TEN (10) CONSECUTIVE CALENDAR DAYS AFTER THE DATE OF THE NOTICE OF AWARD, THE BIDDER SHALL EXECUTE THE CONTRACT AND FURNISH THE REQUIRED PERFORMANCE BOND, PAYMENT BOND AND INSURANCES.

THE BOARD OF EDUCATION OF THE DISTRICT RESERVES THE RIGHT TO AWARD THIS CONTRACT TO OTHER THAN THE LOW BIDDER IF THE LAW SO PERMITS.

THE UNDERSIGNED HEREBY ACKNOWLEDGES RECEIPT OF THE FOLLOWING ADDENDA (IF ANY):

ADDENDUM NO.

DATED

SPECIFIC DAMAGES WILL BE ASSESSED AND DEDUCTED FROM AMOUNTS OTHERWISE DUE THE CONTRACTOR FOR ADDITIONAL INSPECTION (FIELD) AND CONTRACT ADMINISTRATION (OFFICE) TIME EXPENDED BY THE ARCHITECT/ENGINEER AND/OR OTHER CONSTRUCTION EMPLOYEE(S) HIRED TO ADMINISTER OR OBSERVE THE CONTRACT, SHOULD THE CONTRACTOR COMPLETE THE CONTRACT BEYOND THE CONTRACT COMPLETION PERIOD SPECIFIED ABOVE.

SUCH DEDUCTION SHALL BE IN ACCORDANCE WITH THE ARCHITECT, ENGINEER'S, AND/OR OTHER CONSTRUCTION EMPLOYEE(S) STANDARD HOURLY BILLING RATES IN EFFECT AT THE TIME FOR THE SCHOOL DISTRICT.

THE REQUIREMENTS OF THE PROPOSAL HAVE BEEN COMPLETELY READ, UNDERSTOOD AND ACKNOWLEDGED BY THE BIDDER.

BIDDER:
BIDDER'S ADDRESS:
SIGNED BY: TITLE:
DATE:
Telephone number where the contractor or a competent representative can accept a telephone message and provide a reasonable reply as soon as possible, but not later than twenty-four (24) hours:
DAY: () NIGHT: ()
FAX: ()
FEDERAL I.D. NO. OR SOCIAL SECURITY NO.:

ITEM 1 – BONDS and INSURANCES



Note: The bidder is asked to use either black ink or typewriter (black ribbon) in completing this proposal form. Each line item amount must be completed. Failure to do so will be grounds for disqualification of the bidder.

BASE BID: Contract G – General Construction Work

(written in words)	(\$)
ITEM 2 – DIVISION 1 – GENERAL REQUIREMENTS		
(written in words)	(\$)
ITEM 3 – DIVISION 1 – PROJECT SUPERVISION		
(written in words)	(\$)
ITEM 4 – DIVISION 2 – EXISTING CONDITIONS & DEMOLITION WORK		
(written in words)	(\$)
ITEM 5 – DIVISION 3 – CONCRETE		
(written in words)	(\$)
ITEM 6 – DIVISION 5 – METALS		
(written in words)	(\$)
ITEM 7 – DIVISION 6 – WOOD, PLASTICS AND COMPOSITES		
(written in words)	(\$)
ITEM 8 – DIVISION 7 – FIRESTOPPING AND SEALANTS		
(written in words)	(\$)
ITEM 9 – DIVISION 8 – OPENINGS		
(written in words)	(\$)
ITEM 10 – DIVISION 9 - FINISHES		
(written in words)	(\$)
ITEM 11 – DIVISION 11 - EQUIPMENT		
(written in words)	(\$)
ITEM 12 – PROJECT CLOSEOUT		
(written in words)	(\$)



(written in words) Fifty Thousand Dollars and 00 Cents

<u>(</u>\$50,000.00)

TOTAL BASE BID (ITEMS 1 – 12 INCLUSIVE, PLUS ALLOWANCE G1)	
(written in words)	\$)

ALTERNATES

The contractor shall clearly state whether cost indicated is to be added to or deducted from the base bid cost. Failure to clearly state same will be grounds for disqualification of the bidder.

All work included under this heading shall be subject to the general conditions of the project. All construction, workmanship and finishes required by the alternates shall be as specified in the applicable sections of the specifications manual.

The undersigned proposes and agrees that should the following alternates be accepted and included in the contract, the amount of the TOTAL BASE BID will be revised as follows. The undersigned further agrees that should the following Alternates be accepted at a subsequent date, after the base bid contract is awarded, due to additional funds provided to the school district through a Smart Schools Bond Act, the alternate bid prices indicated shall be held and honored for a period of one year from the date of contract signing.

NUMBER	DESCRIPTION	COST	
ALT-G1 (Add)	Contractor to provide and install new acoustical ceiling system and associated items where indicated in drawings (Wing A). This alternate shall include all material and labor for this work.	(\$))
ALT-G2 (Add)	Contractor to provide and install new acoustical ceiling system and associated items where indicated in drawings (Wing B). This alternate shall include all material and labor for this work.	(\$))
ALT-G3 (Add)	Contractor to provide all general construction and demolition work associated with the removal and disposal of existing acoustical ceiling tile system, and associated items where indicated in drawings (Wing G). Contractor to provide and install new acoustical ceiling system and associated items where indicated in drawings. This alternate shall include all material and labor for this work.	(\$))
ALT-G4 (Add)	Contractor to provide all general construction and demolition work associated with the removal and disposal of existing acoustical ceiling tile system, and associated items where indicated in drawings (Wing E). Contractor to provide and install new acoustical ceiling system and associated items where indicated in drawings. This alternate shall include all material and labor for this work.	(\$))
ALT-G5 (Add)	Builder's Risk Insurance: All costs associated with providing and purchasing a Builder's Risk Insurance Policy to include interest of the Owner and Contractor jointly in a form satisfactory to the owner. The limit must reflect the total completed value – all material and labor costs and provide coverage for fire, lightning, explosion, extended coverage, vandalism, malicious mischief, windstorm, hail and/or flood.	(\$))

Note: The WHITE PLAINS CITY SCHOOL DISTRICT is exempt from Federal, New York State and local taxes. TOTAL AMOUNT BID shall be exclusive of all taxes.

EACH BIDDER <u>SHALL SUBMIT WITH IT'S BID A SEPARATE SEALED LIST THAT NAMES THE</u> <u>SUBCONTRACTORS</u> THAT THE BIDDER WILL USE TO PERFORM WORK AND THE AGREED UPON AMOUNT TO BE PAID FOR A.) HEATING, VENTILATION AND AIR-CONDITIONING WORK, B.) PLUMBING WORK AND C.) ELECTRICAL WORK. AFTER THE LOW BID IS ANNOUNCED, THE SEALED LIST OF SUBCONTRACTORS SUBMITTED BY THE APPARENT LOW BIDDER SHALL BE OPENED AND THE NAMES OF THE SUBCONTRACTORS ANNOUNCED. ANY CHANGE OF SUBCONTRACTOR OR AGREED UPON AMOUNT TO BE PAID SHALL REQUIRE THE APPROVAL OF THE PUBLIC OWNER, UPON A SHOWING OF "LEGITIMATE CONSTRUCTION NEED" FOR SUCH CHANGE.

"LEGITIMATE CONSTRUCTION NEED" SHALL INCLUDE, BUT NOT BE LIMITED TO:

A CHANGE IN PROJECT SPECIFICATIONS, A CHANGE IN CONSTRUCTION MATERIAL COSTS, A CHANGE IN SUBCONTRACTOR STATUS, OR THE SUBCONTRACTOR HAS BECOME UNWILLING, UNABLE OR UNAVAILABLE TO PERFORM THE SUBCONTRACT.

THE SEALED LISTS OF SUBCONTRACTORS SUBMITTED BY ALL OTHER BIDDERS SHALL BE RETURNED TO THEM UNOPENED AFTER THE CONTRACT AWARD.

PAYMENTS TO SUBCONTRACTORS AND MATERIAL MEN MUST BE MADE WITHIN 7 CALENDAR DAYS AS OPPOSED TO 15 CALENDAR DAYS OF THE RECEIPT OF PAYMENT FORM THE PUBLIC OWNER. FAILURE TO PAY WITHIN 7 CALENDAR DAYS WILL RESULT IN INTEREST DUE FOR ALL CALENDAR DAYS SUBSEQUENT TO THE SEVENTH DAY THROUGH THE DATE THAT PAYMENT IS MADE.

THE BIDDER UNDERSTANDS THAT THE OWNER RESERVES THE RIGHT TO REJECT ANY OR ALL BIDS AND TO WAIVE ANY INFORMALITIES IN THE BIDDING.

THE BIDDER AGREES THAT THE BID SHALL BE GOOD AND MAY NOT BE WITHDRAWN FOR A PERIOD OF **FORTY-FIVE (45)** CALENDAR DAYS AFTER THE SCHEDULED CLOSING TIME FOR RECEIVING BIDS.

THE BIDDER HAS SUBMITTED ALL REQUESTS FOR OTHER BRAND NAMES OR PRODUCTS NOT LISTED IN THE SPECIFICATIONS IN ACCORDANCE WITH ARTICLE 6(W) OF THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION.

SITE SUPERVISION

THE SUCCESSFUL CONTRACTOR IS TO PROVIDE FULL TIME SITE SUPERVISION FOR HIS OR HER STAFF, SUBCONTRACTORS AND SUPPLIERS FOR THE DURATION OF THIS PROJECT. A COMPETENT SUPERINTENDENT SHALL BE IN ATTENDANCE AT THE JOB SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED UNDER THEIR CONTRACT. THE SUPERINTENDENT IS RESPONSIBLE TO VISIT THE JOB SITE DAILY WHEN WORK IS NOT BEING PERFORMED UNDER THEIR CONTRACT AND TO MONITOR THE OVERALL CONSTRUCTION PROGRESS. A QUALIFIED SITE SUPERINTENDENT MUST HAVE THE AUTHORITY TO REPRESENT AND MAKE DECISIONS FOR HIS OR HER COMPANY WITH REGARDS TO THE SUBJECT JOB, MUST BE ABLE TO GIVE GUIDANCE AND DIRECTION TO EMPLOYEES, SUBCONTRACTORS AND SUPPLIERS, AND MUST BE KNOWLEDGEABLE ABOUT THE WORK TO BE PROVIDED. FAILURE TO PROVIDE A QUALIFIED SITE SUPERINTENDENT AT THE JOB SITE SHALL SUBJECT SAID PRIME CONTRACTOR TO A PENALTY OF \$1,000 PER DAY FOR EVERY OCCURRENCE.



TIME OF COMPLETION

ALL WORK UNDER THIS CONTRACT SHALL BE COMPLETED BETWEEN THE FOLLOWING HOURS, IN ACCORDANCE WITH THE FOLLOWING DATES:

WORK DAYS:	Monday – Saturday
WORK HOURS:	7:00 AM - 8:00 PM
CONSTRUCTION START DATE:	October 1, 2023
CORRIDOR CEILINGS - WINGS C&D (BASE BID):	October 1 2023 – Jan 31, 2024 (Second Shift)
CORRIDOR CEILINGS - WING A&B (ALTS. G1 & G2):	February 1, 2024 – May 31, 2024 (Second Shift)
CORRIDOR CEILINGS - WING G&E (ALTS. G3 & G4):	June 1, 2024 – August 31, 2024 (Second Shift > Normal Shift)
CLASSROOM SOFFITS & CHASE - (BASE BID):	July 1, 2024 – August 31, 2024 (Normal Shift)
SUBSTANTIAL COMPLETION:	August 18, 2024
FINAL COMPLETION:	August 31, 2024

IF NECESSARY, WEEKEND, HOLIDAY AND EVENING WORK SHALL BE PROVIDED TO ENSURE THE COMPLETION DATES LISTED ABOVE, AT THE SOLE COST AND EXPENSE OF THE BIDDER.

FAILURE OF THE CONTRACTOR TO COMPLETE WORK BY THE SPECIFIED TIME SHALL SUBJECT HIM/HER TO LIQUIDATED DAMAGES AS SET FORTH IN ARTICLE 13 OF THE GENERAL CONDITIONS.

THE ARCHITECT/ENGINEER SHALL ACT AS THE RECORD KEEPER OF CONTRACT DAYS; HE WILL BE THE SOLE JUDGE OF DELAYS CAUSED BY WEATHER. ONLY WEATHER DELAYS, AS ADJUDGED BY THE ARCHITECT/ENGINEER, WILL BE CONSIDERED FOR EXTENSIONS OF THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL SUBMIT A BI-WEEKLY REQUEST FOR DELAYS DUE TO WEATHER TO THE ARCHITECT/ENGINEER FOR APPROVAL. NO OTHER DELAY CLAIMS WILL BE ACCEPTED, FOR CREDIT TOWARDS THE PROJECT COMPLETION SCHEDULE, REGARDLESS OF THE SOURCE OF THE DELAY.

FAILURE OF THE CONTRACTOR TO COMPLETE ALL WORK SHOWN AND SPECIFIED IN THE CONTRACT DOCUMENTS, BY ALL OF THE SPECIFIED TIME FRAMES, SHALL SUBJECT THE CONTRACTOR TO LIQUIDATED DAMAGES, AS SET FORTH IN ARTICLE 13 OF THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, IN THE SUM OF ONE THOUSAND DOLLARS (\$1,000.00) PER CALENDAR DAY. SUCH DAMAGES WILL COMMENCE ON THE DAY AFTER THE COMPLETION DATE OR THE DAY AFTER ANY LISTED MILESTONE DATE IN THE NOTICE TO PROCEED.

WITHIN TEN (10) CONSECUTIVE CALENDAR DAYS AFTER THE DATE OF THE NOTICE OF AWARD, THE BIDDER SHALL EXECUTE THE CONTRACT AND FURNISH THE REQUIRED PERFORMANCE BOND, PAYMENT BOND AND INSURANCES.



THE BOARD OF EDUCATION OF THE DISTRICT RESERVES THE RIGHT TO AWARD THIS CONTRACT TO OTHER THAN THE LOW BIDDER IF THE LAW SO PERMITS.

THE UNDERSIGNED HEREBY ACKNOWLEDGES RECEIPT OF THE FOLLOWING ADDENDA (IF ANY):

ADDENDUM NO.

DATED

SPECIFIC DAMAGES WILL BE ASSESSED AND DEDUCTED FROM AMOUNTS OTHERWISE DUE THE CONTRACTOR FOR ADDITIONAL INSPECTION (FIELD) AND CONTRACT ADMINISTRATION (OFFICE) TIME EXPENDED BY THE ARCHITECT/ENGINEER AND/OR OTHER CONSTRUCTION EMPLOYEE(S) HIRED TO ADMINISTER OR OBSERVE THE CONTRACT, SHOULD THE CONTRACTOR COMPLETE THE CONTRACT BEYOND THE CONTRACT COMPLETION PERIOD SPECIFIED ABOVE.

SUCH DEDUCTION SHALL BE IN ACCORDANCE WITH THE ARCHITECT, ENGINEER'S, AND/OR OTHER CONSTRUCTION EMPLOYEE(S) STANDARD HOURLY BILLING RATES IN EFFECT AT THE TIME FOR THE SCHOOL DISTRICT.

THE REQUIREMENTS OF THE PROPOSAL HAVE BEEN COMPLETELY READ, UNDERSTOOD AND ACKNOWLEDGED BY THE BIDDER.

BIDDER:	
BIDDER'S ADDRESS:	
SIGNED BY:	TITLE:
DATE:	

Telephone number where the contractor or a competent representative can accept a telephone message and provide a reasonable reply as soon as possible, but not later than twenty-four (24) hours:

DAY: (_____ NIGHT: (_____

FAX: (_____

FEDERAL I.D. NO. OR SOCIAL SECURITY NO.: _____

Note: The bidder is asked to use either black ink or typewriter (black ribbon) in completing this proposal form. Each line item amount must be completed. Failure to do so will be grounds for disqualification of the bidder.

BASE BID: Contract H – HVAC Construction Work

ITEM 1 – BONDS and INSURANCES		
(written in words)	_(\$)
ITEM 2 – DIVISION 1 – GENERAL REQUIREMENTS		
(written in words)	_(\$)
ITEM 3 – DIVISION 1 – PROJECT SUPERVISION		
(written in words)	_(\$)
ITEM 4 – DIVISION 2 – EXISTING CONDITIONS & DEMOLITION WORK		
(written in words)	_(\$)
ITEM 5 – DIVISION 7 – FIRE STOPPING		
(written in words)	_(\$)
ITEM 6 – DIVISION 23 – PIPE, VALVES, FITTINGS, PIPE HANGERS AND SUPPORTS	6	
(written in words)	_(\$)
ITEM 7 – DIVISION 23 – MECHANICAL SYSTEM IDENTIFICATION		
(written in words)	_(\$)
ITEM 8 – DIVISION 23 – BALANCING OF AIR SYSTEMS		
(written in words)	_(\$)
ITEM 9 – DIVISION 23 – PIPING & DUCTWORK INSULATION		
(written in words)	_(\$)
ITEM 10 – DIVISION 23 – CONTROLS		
(written in words)	_(\$)
ITEM 11 – DIVISION 23 – SHEET METAL WORK		
(written in words)	_(\$)
ITEM 12 – DIVISION 23 – DIFFUSERS, REGISTERS AND GRILLES		
(written in words)	_(\$)

ITEM 13 – AS-BUILT DRAWINGS

(written in words)	(\$)
ITEM 14 – PROJECT CLOSEOUT		
(written in words)	(\$)
ALLOWANCE H1 – ALLOWANCE FOR GENERAL CONTINGENCY		
(written in words) <u>Forty Thousand Dollars and 00 Cents</u>	(\$40,000.00)
TOTAL BASE BID (ITEMS 1 –14 INCLUSIVE, PLUS ALLOWANCE H1)		
(written in words)	_(\$)

ALTERNATES

The contractor shall clearly state whether cost indicated is to be added to or deducted from the base bid cost. Failure to clearly state same will be grounds for disqualification of the bidder.

All work included under this heading shall be subject to the general conditions of the project. All construction, workmanship and finishes required by the alternates shall be as specified in the applicable sections of the specifications manual.

The undersigned proposes and agrees that should the following alternates be accepted and included in the contract, the amount of the TOTAL BASE BID will be revised as follows. The undersigned further agrees that should the following Alternates be accepted at a subsequent date, after the base bid contract is awarded, due to additional funds provided to the school district through a Smart Schools Bond Act, the alternate bid prices indicated shall be held and honored for a period of one year from the date of contract signing.

NUMBER	DESCRIPTION	COST
ALT-H1 (Add)	Builder's Risk Insurance: All costs associated with providing and purchasing a Builder's Risk Insurance Policy to include interest of the Owner and Contractor jointly in a form satisfactory to the owner. The limit must reflect the total completed value – all material and labor costs and provide coverage for fire, lightning, explosion, extended coverage, vandalism, malicious mischief, windstorm, hail and/or flood.	(\$)

Note: The WHITE PLAINS CITY SCHOOL DISTRICT is exempt from Federal, New York State and local taxes. TOTAL AMOUNT BID shall be exclusive of all taxes.

EACH BIDDER SHALL SUBMIT WITH IT'S BID A SEPARATE SEALED LIST THAT NAMES THE SUBCONTRACTORS THAT THE BIDDER WILL USE TO PERFORM WORK AND THE AGREED UPON AMOUNT TO BE PAID FOR A.) HEATING, VENTILATION AND AIR-CONDITIONING WORK, B.) PLUMBING WORK AND C.) ELECTRICAL WORK. AFTER THE LOW BID IS ANNOUNCED, THE SEALED LIST OF SUBCONTRACTORS SUBMITTED BY THE APPARENT LOW BIDDER SHALL BE OPENED AND THE NAMES OF THE SUBCONTRACTORS ANNOUNCED. ANY CHANGE OF SUBCONTRACTOR OR AGREED UPON AMOUNT TO BE PAID SHALL REQUIRE THE APPROVAL OF THE PUBLIC OWNER, UPON A SHOWING OF "LEGITIMATE CONSTRUCTION NEED" FOR SUCH CHANGE.

"LEGITIMATE CONSTRUCTION NEED" SHALL INCLUDE, BUT NOT BE LIMITED TO:



A CHANGE IN PROJECT SPECIFICATIONS, A CHANGE IN CONSTRUCTION MATERIAL COSTS, A CHANGE IN SUBCONTRACTOR STATUS, OR THE SUBCONTRACTOR HAS BECOME UNWILLING, UNABLE OR UNAVAILABLE TO PERFORM THE SUBCONTRACT.

THE SEALED LISTS OF SUBCONTRACTORS SUBMITTED BY ALL OTHER BIDDERS SHALL BE RETURNED TO THEM UNOPENED AFTER THE CONTRACT AWARD.

PAYMENTS TO SUBCONTRACTORS AND MATERIAL MEN MUST BE MADE WITHIN 7 CALENDAR DAYS AS OPPOSED TO 15 CALENDAR DAYS OF THE RECEIPT OF PAYMENT FORM THE PUBLIC OWNER. FAILURE TO PAY WITHIN 7 CALENDAR DAYS WILL RESULT IN INTEREST DUE FOR ALL CALENDAR DAYS SUBSEQUENT TO THE SEVENTH DAY THROUGH THE DATE THAT PAYMENT IS MADE.

THE BIDDER UNDERSTANDS THAT THE OWNER RESERVES THE RIGHT TO REJECT ANY OR ALL BIDS AND TO WAIVE ANY INFORMALITIES IN THE BIDDING.

THE BIDDER AGREES THAT THE BID SHALL BE GOOD AND MAY NOT BE WITHDRAWN FOR A PERIOD OF **FORTY-FIVE (45)** CALENDAR DAYS AFTER THE SCHEDULED CLOSING TIME FOR RECEIVING BIDS.

THE BIDDER HAS SUBMITTED ALL REQUESTS FOR OTHER BRAND NAMES OR PRODUCTS NOT LISTED IN THE SPECIFICATIONS IN ACCORDANCE WITH ARTICLE 6(W) OF THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION.

SITE SUPERVISION

THE SUCCESSFUL CONTRACTOR IS TO PROVIDE FULL TIME SITE SUPERVISION FOR HIS OR HER STAFF, SUBCONTRACTORS AND SUPPLIERS FOR THE DURATION OF THIS PROJECT. A COMPETENT SUPERINTENDENT SHALL BE IN ATTENDANCE AT THE JOB SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED UNDER THEIR CONTRACT. THE SUPERINTENDENT IS RESPONSIBLE TO VISIT THE JOB SITE DAILY WHEN WORK IS NOT BEING PERFORMED UNDER THEIR CONTRACT AND TO MONITOR THE OVERALL CONSTRUCTION PROGRESS. A QUALIFIED SITE SUPERINTENDENT MUST HAVE THE AUTHORITY TO REPRESENT AND MAKE DECISIONS FOR HIS OR HER COMPANY WITH REGARDS TO THE SUBJECT JOB, MUST BE ABLE TO GIVE GUIDANCE AND DIRECTION TO EMPLOYEES, SUBCONTRACTORS AND SUPPLIERS, AND MUST BE KNOWLEDGEABLE ABOUT THE WORK TO BE PROVIDED. FAILURE TO PROVIDE A QUALIFIED SITE SUPERINTENDENT AT THE JOB SITE SHALL SUBJECT SAID PRIME CONTRACTOR TO A PENALTY OF \$1,000 PER DAY FOR EVERY OCCURRENCE.

TIME OF COMPLETION

ALL WORK UNDER THIS CONTRACT SHALL BE COMPLETED BETWEEN THE FOLLOWING HOURS, IN ACCORDANCE WITH THE FOLLOWING DATES:

WORK DAYS:	Monday – Saturday
WORK HOURS:	7:00 AM - 8:00 PM
CONSTRUCTION START DATE:	July 1, 2024
SUBSTANTIAL COMPLETION:	August 18, 2024
FINAL COMPLETION:	August 31, 2024

IF NECESSARY, WEEKEND, HOLIDAY AND EVENING WORK SHALL BE PROVIDED TO ENSURE THE COMPLETION DATES LISTED ABOVE, AT THE SOLE COST AND EXPENSE OF THE BIDDER.

FAILURE OF THE CONTRACTOR TO COMPLETE WORK BY THE SPECIFIED TIME SHALL SUBJECT HIM/HER TO LIQUIDATED DAMAGES AS SET FORTH IN ARTICLE 13 OF THE GENERAL CONDITIONS.

THE ARCHITECT/ENGINEER SHALL ACT AS THE RECORD KEEPER OF CONTRACT DAYS; HE WILL BE THE SOLE JUDGE OF DELAYS CAUSED BY WEATHER. ONLY WEATHER DELAYS, AS ADJUDGED BY THE ARCHITECT/ENGINEER, WILL BE CONSIDERED FOR EXTENSIONS OF THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL SUBMIT A BI-WEEKLY REQUEST FOR DELAYS DUE TO WEATHER TO THE ARCHITECT/ENGINEER FOR APPROVAL. NO OTHER DELAY CLAIMS WILL BE ACCEPTED, FOR CREDIT TOWARDS THE PROJECT COMPLETION SCHEDULE, REGARDLESS OF THE SOURCE OF THE DELAY.

FAILURE OF THE CONTRACTOR TO COMPLETE ALL WORK SHOWN AND SPECIFIED IN THE CONTRACT DOCUMENTS, BY ALL OF THE SPECIFIED TIME FRAMES, SHALL SUBJECT THE CONTRACTOR TO LIQUIDATED DAMAGES, AS SET FORTH IN ARTICLE 13 OF THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, IN THE SUM OF ONE THOUSAND DOLLARS (\$1,000.00) PER CALENDAR DAY. SUCH DAMAGES WILL COMMENCE ON THE DAY AFTER THE COMPLETION DATE OR THE DAY AFTER ANY LISTED MILESTONE DATE IN THE NOTICE TO PROCEED.

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THE UNDERSIGNED HEREBY ACKNOWLEDGES RECEIPT OF THE FOLLOWING ADDENDA (IF ANY):

ADDENDUM NO.

DATED

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THE REQUIREMENTS OF THE PROPOSAL HAVE BEEN COMPLETELY READ, UNDERSTOOD AND ACKNOWLEDGED BY THE BIDDER.

NOTICE TO BIDDERS WHITE PLAINS CITY SCHOOL DISTRICT

BIDDER:
BIDDER'S ADDRESS:
SIGNED BY: TITLE:
DATE:
Telephone number where the contractor or a competent representative can accept a telephone message and provide a reasonable reply as soon as possible, but not later than twenty-four (24) hours:
DAY: (NIGHT: (
FAX: ()

FEDERAL I.D. NO. OR SOCIAL SECURITY NO.:

PART 1 - GENERAL

1.01 BRIEF PURPOSE OF PROJECT / GENERAL

- A. The purpose of the project is to remove existing corridor ceilings and provide new corridor ceilings with associated lighting, new classroom soffits and chase, new classroom ventilation, new turf field, new track and site drainage..
- B. This Section provides an abbreviated summary of the work for the Construction Contracts associated with the Owner's program to construct the project.
- C. In the event that any of the provisions in the technical specifications conflicts with the general conditions, the provision more favorable to the owner, as determined by the owner in its sole discretion, shall govern.

1.02 NOMENCLATURE

- A. Where the terms "Engineer/Architect", "Architect/Engineer", "Engineer", or "Architect" are used throughout these Contract Documents, they shall mean the firm of H2M architects + engineers as may be abbreviated by H2M or H2M Group.
- B. Where the terms "Owner" or "Owner's Construction Representative" are used, they will be defined as a person selected by the Owner, or the actual Owner, WHITE PLAINS CITY SCHOOL DISTRICT.

1.03 ABBREVIATED SUMMARY OF CONTRACT G WORK

- A. Furnish all labor, equipment, materials, tools, means, methods, and incidentals necessary to complete the Work as required by the Contract Documents for this Construction Contract. Each contractor shall coordinate, through the Owner/Architect, the work of their contract with the work by others.
- B. This following abbreviated summary is provided in order to briefly describe the work covered by the Contract Documents for this Construction Contract. It is not all inclusive of the work under the Contract.
- C. The work includes, but is not limited to, the following:
 - 1. To remove existing corridor ceilings and provide new corridor ceilings and provide new classroom soffits and chases.
 - 2. Project closeout submittals.
- D. All other work shown and specified within the Contract Documents for Contract G.

1.04 ABBREVIATED SUMMARY OF CONTRACT E WORK

- A. Furnish all labor, equipment, materials, tools, means, methods, and incidentals necessary to complete the Work as required by the Contract Documents for this Construction Contract. Each Contractor shall coordinate, through the Owner/Architect, the work of their contract with the work by others.
- B. This following abbreviated summary is provided in order to briefly describe the work covered by the Contract Documents for this Construction Contract. It is not all inclusive of the work under the Contract.

- C. The work includes, but is not limited to, the following:
 - 1. Provide, install, maintain, and repair, if necessary, temporary power and light throughout the site and to the Owner/Architect's field office. Temporary power shall be provided at location(s) selected by the Architect based on input by the General Contractor.
 - 2. Arrange for and install primary electric service.
 - 3. Main secondary feeders, power distribution, and instrumentation control wiring. Provide, mount, and install electrical conduit, wire, fittings, boxes, panels, and electrical accessories.
 - 4. All clearing, excavation, filling, and backfilling associated with the installation of underground conduit, duct bank, or wiring.
 - 5. Setting of electrical sleeves and/or embedded conduit in all concrete construction. All conduit for new construction shall be embedded in concrete slabs, decks, or walls.
 - 6. Electrical connections (final termination) to all equipment, control panels, ventilating equipment and electrical devices.
 - 7. Startup participation for the various equipment and systems of the project and provide complete service to troubleshoot and assist manufacturer service representatives in obtaining a completely functional installation.
 - 8. New secondary feeders, power distribution, and instrumentation control wiring. New electrical conduit, wire, fittings, boxes, panels, and electrical accessories.
 - 9. New lighting fixtures, wiring and associated equipment.
 - 10. Wiring connections to all electrical equipment (including equipment furnished by others).
 - 11. Testing, programming and adjusting of all electrical systems.
 - 12. Project closeout submittals.
- D. All other work shown and specified in the Contract Documents for Contract E.
- 1.05 ABBREVIATED SUMMARY OF CONTRACT H WORK
 - A. Furnish all labor, equipment, materials, tools, means, methods, and incidentals necessary to complete the Work as required by the Contract Documents for this Construction Contract. Each contractor shall coordinate, through the Owner/Architect, the work of their contract with the work by others.
 - B. This following abbreviated summary is provided in order to briefly describe the work covered by the Contract Documents for this Construction Contract. It is not all inclusive of the work under the Contract.
 - C. The work includes, but is not limited to, the following:
 - 1. Startup participation for the various equipment and systems of the project and provide complete service to troubleshoot and assist manufacturer service representatives in obtaining a completely functional installation.
 - 2. New hydronic unit heaters and associated piping.
 - 3. New exhaust fans, supports, and associated equipment.
 - 4. New grilles, registers, duct work, supports and accessories.
 - 5. Furnish louvers and coordinate location for Contract G to install.
 - 6. New air conditioning system.
 - 7. Testing and balancing of systems.
 - 8. Project closeout submittals.
 - D. All other work shown and specified in the Contract Documents for Contract H.
1.06 ABBREVIATED SUMMARY OF CONTRACT C WORK

- A. Furnish all labor, equipment, materials, tools, means, methods, and incidentals necessary to complete the Work as required by the Contract Documents for this Construction Contract. Each contractor shall coordinate, through the Owner/Architect, the work of their contract with the work by others.
- B. This following abbreviated summary is provided in order to briefly describe the work covered by the Contract Documents for this Construction Contract. It is not all inclusive of the work under the Contract.
- C. The work includes, but is not limited to, the following:
 - 1. Provide and install new sports track, Field 12 excavation, drainage systems, retaining walls, fencing, sports equipment, turf field and associated items as per Contract Documents.
 - 2. All excavation, trenching, backfilling, rough grading and final restoration associated with the installation of pull-boxes, underground conduit, and wiring.
 - 3. Project closeout submittals.
- D. All other work shown and specified in the Contract Documents for Contract C.

1.07 PARTIAL LISTING OF SPECIFIC CONTRACT REQUIREMENTS

- A. The Contract Documents detail the work included in the Contract. Related requirements and conditions covered by the Contract Documents include, but are not limited to, the following:
 - 1. Adherence to work restrictions as specified in Section 012100. Such restrictions include, but are not limited to:
 - a. Guidelines and requirements of the New York State Department of Environmental Conservation (NYSDEC)
 - 2. The General Contractor shall comply with the requirements of Section 312333 Trenching. The cost associated with test holes and utility mapping shall be as specified therein, and is subject to change based on conditions existing at the time of construction.
 - 3. The contractor shall adhere to all New York State Education Department requirements, including but not limited to NYCRR, Title 8, Chapter 2, Part 155.5 Uniform Safety Standards for School Construction and Maintenance.

1.08 PARTIAL LISTING OF OVERALL CONTRACT REQUIREMENTS

- A. The Contract Documents detail the work included in the Contract. Related requirements and conditions covered by the Contract Documents include, but is not limited to, the following:
 - 1. Debris removal and daily and final cleaning up.
 - 2. Coordination with the Owner and other contractors who have been awarded work by the Owner.
 - 3. Coordination with utility companies necessary to schedule connection of services, and management of the installation.
 - 4. Site utilization and management so as not to disrupt the Owner's ability to operate the existing facilities in a safe and efficient manner.
 - 5. Maintain the Owner's ability to operate the facility at all times during the construction period.
 - 6. Facilities to be used during the contract period that are to be used by the Owner or his representatives and others involved with constructing the project.
 - 7. Product and equipment storage and handling requirements.

- 8. Starting and adjusting of the equipment and systems required under the project.
- 9. Site safety in accordance with all applicable federal, state, and local regulations.
- 10. Project submittals, testing services, work plans, schedules, shop drawings, closeout procedures and documents, manuals, as-built drawings, final commissioning, of the work shall be provided as required by the Contract.
- 11. Provide and maintain, at all times, temporary roadways for site access to all parties involved with the project.
- 12. Sequence and schedule the construction so that new facilities come on-line before pre-existing facilities are demolished, dismantled or taken offline.
- 13. Temporary facilities and controls necessary to construct the project and to maintain permit levels of sewage treatment at all time.
- 14. Site utilization and management so as to allow other prime contractors to perform work in conjunction with this project and to afford them equal opportunity and space to complete their contractual obligations with the Owner as solely defined by the Architect.
- 15. To not hinder the Owner's ability to deliver a safe and potable water supply.
- 16. To not hinder the Owner's ability to maintain permit levels of sewage treatment at all times.
- B. The Owner has or will award other construction contracts associated with this project.
- C. It is anticipated that work of all the contracts will coincide with work of this Contract.
- D. Each Contractor shall coordinate the work between the various construction contracts, through the Owner/Architect, as required to complete the contract requirements in accordance with the requirements contained in Section 013100.

1.09 OWNER SUPPLIED PRODUCTS AND UTILITIES

- A. The Owner will not be supplying equipment, labor, or tools for the project.
- B. The Owner will be supplying products or materials for the project as follows:
 1. Products shown on the Drawings or specified elsewhere.

1.10 EXISTING CONDITIONS

- A. The Drawings show certain information that has been obtained by the Owner regarding various conditions that exist at the location of the project both below and at grade.
- B. The Owner and the Architect expressly disclaims all responsibility for the accuracy or completeness of the information given on the Drawings with regard to existing facilities.
- C. In the case where the Contractor discovers an obstruction not indicated on the Drawings or not described via specification reference, then the Contractor shall immediately notify the Architect of the obstructions' existence.
- D. The Architect will determine if the obstruction is to be relocated or removed.
- E. Compensation for this extra work will be paid for in accordance with the provisions in the Contract for "Extra Work".

PART 2 - PRODUCTS

NOT USED

PART 3 - EXECUTION

NOT USED

END OF SECTION 011100

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. Section includes acoustical panels and exposed suspension systems with accessories and trims for ceilings.
- B. Products furnished, but not installed under this Section, include anchors, clips, and other ceiling attachment devices.
- C. Seamless Acoustical Ceiling Panels.
- D. Exposed Grid Suspension Systems 15/16 inch
- E. Acoustical Sealants.

1.03 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. LEED Submittals:
 - 1. Product Data for Credit MR 4: For products having recycled content, documentation indicating percentages by weight of postconsumer and preconsumer recycled content. Include statement indicating costs for each product having recycled content.
 - 2. Product Data for Credit EQ 4.1: For sealants, documentation including printed statement of VOC content.
 - 3. Laboratory Test Reports for Credit EQ 4: For ceiling systems and sealants, documentation indicating that products comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."
- C. Samples: For each exposed product and for each color and texture specified, 6 inches (150 mm) in size.

1.04 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For testing agency.
- B. Product Test Reports: For each acoustical panel ceiling, for tests performed by manufacturer and witnessed by a qualified testing agency.

1.05 CLOSEOUT SUBMITTALS

A. Maintenance Data: For finishes to include in maintenance manuals.

1.06 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Acoustical Ceiling Panels: Full-size panels equal to 2 percent of quantity installed.
 - 2. Suspension-System Components: Quantity of each exposed component including decorative moldings, equal to 2 percent of quantity installed.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Deliver acoustical panels, suspension-system components, and accessories to Project site in original, unopened packages and store them in a fully enclosed, conditioned space where they will be protected against damage from moisture, humidity, temperature extremes, direct sunlight, surface contamination, and other causes.
- B. Before installing acoustical panels, permit them to reach room temperature and a stabilized moisture content.
- C. Handle acoustical panels carefully to avoid chipping edges or damaging units in any way.

1.08 FIELD CONDITIONS

- A. Environmental Limitations: Do not install acoustical panel ceilings until spaces are enclosed and weatherproof, wet work in spaces is complete and dry, work above ceilings is complete, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
 - 1. Pressurized Plenums: Operate ventilation system for not less than 48 hours before beginning acoustical panel ceiling installation.

1.09 WARRANTY

- A. Provide manufacturer's 30-year limited systems warranty covering defects in materials and / or factory workmanship for ceiling panels and suspension systems.
- B. Provide manufacturer's 10-year limited warranty covering sagging and warping defects caused by materials or factory workmanship for Humidity and Moisture-resistant ceiling systems.

PART 2 - PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

- A. Seismic Performance: Acoustical ceiling shall withstand the effects of earthquake motions determined according to ASCE/SEI 7.
- B. Surface-Burning Characteristics: Comply with ASTM E84 testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 - 1. Flame-Spread Index: Comply with ASTM E1264 for Class A materials.
 - 2. Smoke-Developed Index: 50 or less.

2.02 ACOUSTICAL PANELS, GENERAL

- A. Low-Emitting Materials: Acoustical panel ceilings shall comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."
- B. Source Limitations:
 - 1. Acoustical Ceiling Panel: Obtain each type from single source from single manufacturer.
 - 2. Suspension System: Obtain each type from single source from single manufacturer.
- C. Source Limitations: Obtain each type of acoustical ceiling panel and supporting suspension system from single source from single manufacturer.
- D. Recycled Content: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 25 percent.
- E. Acoustical Panel Standard: Provide manufacturer's standard panels of configuration indicated that comply with ASTM E1264 classifications as designated by types, patterns, acoustical ratings, and light reflectance unless otherwise indicated.
 - 1. Mounting Method for Measuring NRC: Type E-400; plenum mounting in which face of test specimen is 15-3/4 inches away from test surface according to ASTM E795.
- F. Acoustical Panel Colors and Patterns: Match appearance characteristics indicated for each product type.
 - 1. Where appearance characteristics of acoustical panels are indicated by referencing pattern designations in ASTM E1264 and not manufacturers' proprietary product designations, provide products selected by Architect from each manufacturer's full range that comply with requirements indicated for type, pattern, color, light reflectance, acoustical performance, edge detail, and size.

2.03 ACOUSTICAL PANELS

- A. Basis-of-Design Product Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:
 - 1. CertainTeed Corp.: Symphony m 1222-75-1.
 - 2. Armstrong World Industries, Inc.
 - 3. or Architect approved equivalent.
- B. Classification: Provide panels complying with ASTM E1264 for type, form, and pattern as follows:
 - 1. Type and Form: Type III, mineral base with factory-applied latex paint; Form 2, water felted; with Durabrite acoustically transparent membrane.
 - 2. Pattern: As indicated by manufacturer's designation.
- C. Color: White.
- D. LR: Not less than 0.83.
- E. NRC: Not less than 0.75.
- F. CAC: Not less than 35.

- G. Edge/Joint Detail: Square Lay-in.
- H. Thickness: 7/8 inch.
- I. Modular Size: 24 by 24 inches (610 by 610 mm).

2.04 METAL SUSPENSION SYSTEMS, GENERAL

- A. Recycled Content: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 25 percent.
- B. Metal Suspension-System Standard: Provide manufacturer's standard direct-hung metal suspension systems of types, structural classifications, and finishes indicated that comply with applicable requirements in ASTM C635/C635M.
 - 1. High-Humidity Finish: Comply with ASTM C635/C635M requirements for "Coating Classification for Severe Environment Performance" where high-humidity finishes are indicated.
- C. Attachment Devices: Size for five times the design load indicated in ASTM C635/C635M, Table 1, "Direct Hung," unless otherwise indicated. Comply with seismic design requirements.
- D. Wire Hangers, Braces, and Ties: Provide wires complying with the following requirements:
 - 1. Zinc-Coated, Carbon-Steel Wire: ASTM A641/A641M, Class 1 zinc coating, soft temper.
 - Size: Select wire diameter so its stress at three times hanger design load (ASTM C635/C635M, Table 1, "Direct Hung") will be less than yield stress of wire, but provide not less than 0.135-inch- (3.5-mm-) diameter wire.
- E. Hanger Rods Flat Hangers: 1/4 inch diameter, Mild steel, zinc coated or protected with rust-inhibitive paint.
- F. Angle Hangers: Angles with legs not less than 7/8 inch (22 mm) wide; formed with 0.04-inch-(1-mm-) thick, galvanized-steel sheet complying with ASTM A653/A653M, G90 (Z275) coating designation; with bolted connections and 5/16-inch- (8-mm-) diameter bolts.
- G. Cold Rolled Channel: 1 1/2 inch deep, 16 MSG cold rolled steel with protective zinc coating. Tie to supporting structure with 12 SWG galvanized wire ties. Install at 4'-0" o.c. maximum or as indicated on the drawings.
- H. Seismic Stabilizer Bars: Manufacturer's standard perimeter stabilizers designed to accommodate seismic forces.
- I. Seismic Struts: Manufacturer's standard compression struts designed to accommodate seismic forces.
- J. Seismic Clips: Manufacturer's standard seismic clips designed and spaced to secure acoustical panels in place. Conform to "Code of Practices for Acoustical Ceiling System Installations" by CISCA Ceilings & Interior Systems Contractors Association.

2.05 METAL SUSPENSION SYSTEM - 15/16 GRID

A. Basis-of-Design Product Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:

- 1. CertainTeed Corp.: 15/16" EZ Stab Classic Gird System.
- 2. Armstrong World Industries, Inc.
- 3. Chicago Metallic Corporation.
- B. Wide-Face, Capped, Double-Web, Steel Suspension System: Main and cross runners roll formed from cold-rolled steel sheet; prepainted, electrolytically zinc coated, or hot-dip galvanized according to ASTM A 653/A 653M, not less than G30 (Z90) coating designation; with prefinished 15/16-inch (24 mm) wide metal caps on flanges.
 - 1. Structural Classification: Heavy-duty system.
 - 2. End Condition of Cross Runners: butt-edge type.
 - 3. Face Design: Flat, flush.
 - 4. Grid and Cap Material: Hot-dip galvanized steel with Aluminum cap.
 - 5. Cap Finish:
 - a. White for acoustical panel installations.
 - b. Color as selected by the Architect for the 360 Painted Grid system.
- C. Suspended Ceiling Grid Moldings: StyleStix TM Rigid PVC; Sag, mold, mildew and bacteria resistant; snap-on grid and perimeter moldings (Items #1310, 1311 and 1312) in lengths required. System connects to a standard 15/16" grid suspension system with wall molding profile. The StyleStix system shall have the following physical characteristics:
 - 1. Dimensions: 1 1/2 inch wide x 3/4 inch deep x 72 inch long (#1310)
 - 2. Sag Resistance: HumiGuard Plus.
 - 3. Fire Rating: Class A
 - 4. Anti-microbial: Mold, Mildew and Bacteria resistant
 - 5. Durability: Soil, scratch and impact resistant
 - 6. Material: PVC
 - 7. Finish: White, paintable surface.
 - 8. Warranty: Limited Lifetime manufacturer's warranty.

2.06 METAL EDGE MOLDINGS AND TRIM

- A. Basis-of-Design Product : Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:
 - 1. CertainTeed Corp. 15/16 inch edge Angles, Moldings and Trims compatible with the grid specified.
 - 2. Armstrong World Industries, Inc.
 - 3. Chicago Metallic Corporation.
- B. Roll-Formed, Sheet-Metal Edge Moldings and Trim: Type and profile indicated or, if not indicated, manufacturer's standard moldings for edges and penetrations that comply with seismic design requirements; formed from sheet metal of same material, finish, and color as that used for exposed flanges of suspension-system runners.
 - 1. Provide manufacturer's standard edge moldings that fit acoustical panel edge details and suspension systems indicated and that match width and configuration of exposed runners unless otherwise indicated.
 - 2. For lay-in panels with reveal edge details, provide stepped edge molding that forms reveal of same depth and width as that formed between edge of panel and flange at exposed suspension member.
 - 3. For circular penetrations of ceiling, provide edge moldings fabricated to diameter required to fit penetration exactly.

C. Extruded Aluminum, Sheet-Metal Edge Moldings and Trim: Axiom Trim type and profile indicated.

2.07 ACOUSTICAL SEALANT

- A. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Acoustical Sealant for Exposed and Concealed Joints
 - a. Pecora Corporation ; AC-20 FTR Acoustical and Insulation Sealant.
 - b. USG Corporation: SHEETROCK Acoustical Sealant.
- B. Acoustical Sealant: Manufacturer's standard sealant complying with ASTM C834 and effective in reducing airborne sound transmission through perimeter joints and openings in building construction as demonstrated by testing representative assemblies according to ASTM E 90.
 - 1. Exposed and Concealed Joints: Nonsag, paintable, nonstaining latex sealant.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine substrates, areas, and conditions, including structural framing to which acoustical panel ceilings attach or abut, with Installer present, for compliance with requirements specified in this and other Sections that affect ceiling installation and anchorage and with requirements for installation tolerances and other conditions affecting performance of acoustical panel ceilings.
- B. Examine acoustical panels before installation. Reject acoustical panels that are wet, moisture damaged, or mold damaged.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

A. Measure each ceiling area and establish layout of acoustical panels to balance border widths at opposite edges of each ceiling. Avoid using less-than-half-width panels at borders, and comply with layout shown on reflected ceiling plans.

3.03 INSTALLATION

- A. General: Install acoustical panel ceilings to comply with ASTM C636/C636M and seismic design requirements indicated, according to manufacturer's written instructions and CISCA's "Ceiling Systems Handbook."
- B. Suspend ceiling hangers from building's structural members and as follows:
 - 1. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structure or of ceiling suspension system.
 - 2. Splay hangers only where required to miss obstructions; offset resulting horizontal forces by bracing, countersplaying, or other equally effective means.
 - 3. Where width of ducts and other construction within ceiling plenum produces hanger spacings that interfere with location of hangers at spacings required to support standard suspension-system members, install supplemental suspension members and hangers in form of trapezes or equivalent devices.

- 4. Secure wire hangers to ceiling-suspension members and to supports above with a minimum of three tight turns. Connect hangers directly either to structures or to inserts, eye screws, or other devices that are secure and appropriate for substrate and that will not deteriorate or otherwise fail due to age, corrosion, or elevated temperatures.
- 5. Secure flat, angle, channel, and rod hangers to structure, including intermediate framing members, by attaching to inserts, eye screws, or other devices that are secure and appropriate for both the structure to which hangers are attached and the type of hanger involved. Install hangers in a manner that will not cause them to deteriorate or fail due to age, corrosion, or elevated temperatures.
- 6. When steel framing does not permit installation of hanger wires at spacing required, install carrying channels or other supplemental support for attachment of hanger wires.
- 7. Do not attach hangers to steel deck tabs.
- 8. Do not attach hangers to steel roof deck. Attach hangers to structural members.
- 9. Space hangers not more than 48 inches (1200 mm) o.c. along each member supported directly from hangers unless otherwise indicated; provide hangers not more than 8 inches (200 mm) from ends of each member.
- 10. Size supplemental suspension members and hangers to support ceiling loads within performance limits established by referenced standards and publications.
- C. Secure bracing wires to ceiling suspension members and to supports with a minimum of four tight turns. Suspend bracing from building's structural members as required for hangers, without attaching to permanent metal forms, steel deck, or steel deck tabs. Fasten bracing wires into concrete with cast-in-place or post-installed anchors.
- D. Install edge moldings and trim of type indicated at perimeter of acoustical ceiling area and where necessary to conceal edges of acoustical panels.
 - 1. Apply acoustical sealant in a continuous ribbon concealed on back of vertical legs of moldings before they are installed.
 - 2. Screw attach moldings to substrate at intervals not more than 16 inches (400 mm) o.c. and not more than 3 inches (75 mm) from ends, leveling with ceiling suspension system to a tolerance of 1/8 inch in 12 feet (3.2 mm in 3.6 m). Miter corners accurately and connect securely.
 - 3. Do not use exposed fasteners, including pop rivets, on moldings and trim.
- E. Install suspension-system runners so they are square and securely interlocked with one another. Remove and replace dented, bent, or kinked members.
- F. Install acoustical panels with undamaged edges and fit accurately into suspension-system runners and edge moldings. Scribe and cut panels at borders and penetrations to provide a neat, precise fit.
 - 1. Arrange directionally patterned acoustical panels as follows:
 - a. As indicated on reflected ceiling plans.
 - b. Install panels with pattern running in one direction parallel to short axis of space.
 - 2. For reveal-edged panels on suspension-system runners, install panels with bottom of reveal in firm contact with top surface of runner flanges.
 - 3. Paint cut edges of panel remaining exposed after installation; match color of exposed panel surfaces using coating recommended in writing for this purpose by acoustical panel manufacturer.
 - 4. Install hold-down clips in areas indicated, in areas required by authorities having jurisdiction, and for fire-resistance ratings; space as recommended by panel manufacturer's written instructions unless otherwise indicated.

3.04 FIELD QUALITY CONTROL

- A. Testing Agency: a qualified testing agency to perform tests and inspections and prepare test reports.
- B. Perform the following tests and inspections of completed installations of acoustical panel ceiling hangers and anchors and fasteners in successive stages. Do not proceed with installations of acoustical panel ceiling hangers for the next area until test results for previously completed installations show compliance with requirements.
 - 1. Extent of Each Test Area: When installation of ceiling suspension systems on each floor has reached 20 percent completion but no panels have been installed.
 - a. Within each test area, testing agency will select one of every 10 power-actuated fasteners and post-installed anchors used to attach hangers to concrete and will test them for 200 lbf (890 N) of tension; it will also select one of every two post-installed anchors used to attach bracing wires to concrete and will test them for 440 lbf (1957 N) of tension.
 - b. When testing discovers fasteners and anchors that do not comply with requirements, testing agency will test those anchors not previously tested until 20 pass consecutively and then will resume initial testing frequency.
- C. Acoustical panel ceiling hangers and anchors and fasteners will be considered defective if they do not pass tests and inspections.
- D. Prepare test and inspection reports.
- 3.05 CLEANING
 - A. Clean exposed surfaces of acoustical panel ceilings, including trim, edge moldings, and suspension-system members. Comply with manufacturer's written instructions for cleaning and touchup of minor finish damage. Remove and replace ceiling components that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION 095113

PART 1 - GENERAL

- 1.01 RELATED DOCUMENTS
 - A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. Section includes surface preparation and the application of paint systems on the following exterior substrates:
 - 1. Concrete.
 - 2. Concrete masonry units (CMU).
 - 3. Galvanized metal.
 - 4. Steel.

1.03 DEFINITIONS

- A. Gloss Level 1: Not more than 5 units at 60 degrees and not more than 10 units at 85 degrees, according to ASTM D523.
- B. Gloss Level 2: Not more than 10 units at 60 degrees and 10 to 35 units at 85 degrees, according to ASTM D523.
- C. Gloss Level 3: 10 to 25 units at 60 degrees and 10 to 35 units at 85 degrees, according to ASTM D523.
- D. Gloss Level 4: 20 to 35 units at 60 degrees and not less than 35 units at 85 degrees, according to ASTM D523.
- E. Gloss Level 5: 35 to 70 units at 60 degrees, according to ASTM D523.
- F. Gloss Level 6: 70 to 85 units at 60 degrees, according to ASTM D523.
- G. Gloss Level 7: More than 85 units at 60 degrees, according to ASTM D523.

1.04 ACTION SUBMITTALS

- A. Product Data: For each type of product. Include preparation requirements and application instructions.
- B. Samples for Initial Selection: For each type of topcoat product.
- C. Samples for Verification: For each type of paint system and each color and gloss of topcoat.
 - 1. Submit Samples on rigid backing, 8 inches square.
 - 2. Step coats on Samples to show each coat required for system.
 - 3. Label each coat of each Sample.
 - 4. Label each Sample for location and application area.
- D. Product List: For each product indicated, include the following:
 - 1. Cross-reference to paint system and locations of application areas. Use same designations indicated on Drawings and in schedules.

- 2. Printout of current "MPI Approved Products List" for each product category specified, with the proposed product highlighted.
- 3. VOC content.
- E. LEED Certification Product Data:
 - 1. See Section 013516 Alteration Project Procedures.
 - 2. Submittals Required:
 - a. MRc3 Resource Reuse (LEED Form).
 - b. MRc4 Recycled Content (LEED Form).
 - c. MRc5 Local and Regional Materials (LEED Form).
 - d. EQc4.2 Low Emitting Materials Paint (VOC Certification Letter).

1.05 CLOSEOUT SUBMITTALS

A. Coating Maintenance Manual: Upon conclusion of the project, the Contractor or paint manufacturer/supplier shall furnish a coating maintenance manual, such as Sherwin-Williams "Custodian Project Color and Product Information report or equal. Manual shall include an Area Summary with finish schedule, Area Detail designating where each product/color/finish was used, product data pages, Material Safety Data Sheets, care and cleaning instructions, touch-up procedures, and color samples of each color and finish used.

1.06 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Paint: 5 percent, but not less than 1 gal. of each material and color applied.

1.07 QUALITY ASSURANCE

- A. Mockups: Apply mockups of each paint system indicated and each color and finish selected to verify preliminary selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
 - 1. Architect will select one surface to represent surfaces and conditions for application of each paint system specified in Part 3.
 - a. Vertical and Horizontal Surfaces: Provide samples of at least 100 sq. ft..
 - b. Other Items: Architect will designate items or areas required.
 - 2. Final approval of color selections will be based on mockups.
 - a. If preliminary color selections are not approved, apply additional mockups of additional colors selected by Architect at no added cost to Owner.
 - b. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
 - c. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.08 DELIVERY, STORAGE, AND HANDLING

- A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F.
 - 1. Maintain containers in clean condition, free of foreign materials and residue.
 - 2. Remove rags and waste from storage areas daily.

- B. Delivery and Handling: Deliver products to Project site in an undamaged condition in manufacturer's original sealed containers, complete with labels and instructions for handling, storing, unpacking, protecting, and installing. Packaging shall bear the manufacture's label with the following information:
 - 1. Product name and type (description).
 - 2. Batch date.
 - 3. Color number.
 - 4. VOC content.
 - 5. Environmental handling requirements.
 - 6. Surface preparation requirements.
 - 7. Application instructions.

1.09 FIELD CONDITIONS

- A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 deg F.
- B. Do not apply paints in snow, rain, fog, or mist; when relative humidity exceeds 85 percent; at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Benjamin Moore & Co.
 - 2. PPG Architectural Finishes, Inc.
 - 3. Sherwin Williams
- B. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to products listed in other Part 2 articles for the paint category indicated.

2.02 PAINT, GENERAL

- A. MPI Standards: Provide products that comply with MPI standards indicated and that are listed in its "MPI Approved Products List."
- B. Material Compatibility:
 - 1. Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
 - 2. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.
- C. VOC Content: Provide materials that comply with VOC limits of authorities having jurisdiction.
- D. Colors: As selected by Architect from manufacturer's full range.

2.03 SOURCE QUALITY CONTROL

- A. Testing of Paint Materials: Owner reserves the right to invoke the following procedure:
 - 1. Owner will engage the services of a qualified testing agency to sample paint materials. Contractor will be notified in advance and may be present when samples are taken. If paint materials have already been delivered to Project site, samples may be taken at Project site. Samples will be identified, sealed, and certified by testing agency.
 - 2. Testing agency will perform tests for compliance with product requirements.
 - 3. Owner may direct Contractor to stop applying paints if test results show materials being used do not comply with product requirements. Contractor shall remove noncomplying paint materials from Project site, pay for testing, and repaint surfaces painted with rejected materials. Contractor will be required to remove rejected materials from previously painted surfaces if, on repainting with complying materials, the two paints are incompatible.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers. Where acceptability of substrate conditions is in question, apply samples and perform in-situ testing to verify compatibility, adhesion, and film integrity of new paint application.
 - 1. Report, in writing, conditions that may affect application, appearance, or performance of paint.
- B. Substrate Conditions:
 - 1. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
 - a. Concrete: 12 percent.
 - b. Masonry (Clay and CMU): 12 percent.
 - c. Wood: 15 percent.
 - d. Portland Cement Plaster: 12 percent.
 - e. Gypsum Board: 12 percent.
 - 2. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.
 - Proceed with coating application only after unsatisfactory conditions have been corrected.
 a. Application of coating indicates acceptance of surfaces and conditions.

3.02 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations in "MPI Manual" applicable to substrates and paint systems indicated.
- B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
 - 1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection.
- C. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.

- 1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.
- D. Concrete Substrates: Remove release agents, curing compounds, efflorescence, and chalk. Do not paint surfaces if moisture content or alkalinity of surfaces to be painted exceeds that permitted in manufacturer's written instructions.
- E. Masonry Substrates: Remove efflorescence and chalk. Do not paint surfaces if moisture content or alkalinity of surfaces or mortar joints exceeds that permitted in manufacturer's written instructions.
- F. Steel Substrates: Remove rust, loose mill scale, and shop primer if any. Clean using methods recommended in writing by paint manufacturer but not less than the following:
 - 1. SSPC-SP 3, "Power Tool Cleaning."
 - 2. SSPC-SP 7/NACE No. 4, "Brush-off Blast Cleaning."
 - 3. SSPC-SP 11, "Power Tool Cleaning to Bare Metal."
- G. Shop-Primed Steel Substrates: Clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with the same material as used for shop priming to comply with SSPC-PA 1 for touching up shop-primed surfaces.
- H. Galvanized-Metal Substrates: Remove grease and oil residue from galvanized sheet metal by mechanical methods to produce clean, lightly etched surfaces that promote adhesion of subsequently applied paints.
- I. Aluminum Substrates: Remove loose surface oxidation.
- J. Wood Substrates:
 - 1. Scrape and clean knots. Before applying primer, apply coat of knot sealer recommended in writing by topcoat manufacturer for exterior use in paint system indicated.
 - 2. Sand surfaces that will be exposed to view, and dust off.
 - 3. Stain edges, ends, faces, undersides, and backsides of wood.
 - 4. After priming, fill holes and imperfections in the finish surfaces with putty or plastic wood filler. Sand smooth when dried.
- K. Plastic Trim Fabrication Substrates: Remove dust, dirt, and other foreign material that might impair bond of paints to substrates.

3.03 APPLICATION

- A. Apply paints according to manufacturer's written instructions and recommendations in "MPI Manual."
 - 1. Use applicators and techniques suited for paint and substrate indicated.
 - 2. Paint surfaces behind movable items same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed items with prime coat only.
 - 3. Paint both sides and edges of exterior doors and entire exposed surface of exterior door frames.
 - 4. Paint entire exposed surface of window frames and sashes.
 - 5. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
 - 6. Primers specified in painting schedules may be omitted on items that are factory primed or factory finished if acceptable to topcoat manufacturers.

- B. Tint undercoats same color as topcoat, but tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Provide sufficient difference in shade of undercoats to distinguish each separate coat.
- C. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.
- D. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.
- E. Painting Fire Suppression, Plumbing, HVAC, Electrical, Communication, and Electronic Safety and Security Work:
 - 1. Paint the following work where exposed to view:
 - a. Equipment, including panelboards and switch gear.
 - b. Uninsulated metal piping.
 - c. Uninsulated plastic piping.
 - d. Pipe hangers and supports.
 - e. Metal conduit.
 - f. Plastic conduit.
 - g. Tanks that do not have factory-applied final finishes.

3.04 FIELD QUALITY CONTROL

- A. Dry Film Thickness Testing: Owner may engage the services of a qualified testing and inspecting agency to inspect and test paint for dry film thickness.
 - 1. Contractor shall touch up and restore painted surfaces damaged by testing.
 - 2. If test results show that dry film thickness of applied paint does not comply with paint manufacturer's written recommendations, Contractor shall pay for testing and apply additional coats as needed to provide dry film thickness that complies with paint manufacturer's written recommendations.

3.05 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- B. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- C. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.
- D. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.06 EXTERIOR PAINTING SCHEDULE

- A. Concrete, Cementitious Siding and Plaster Substrates, Non-traffic Surfaces:
 - 1. Latex System:

- a. Prime Coat: Primer sealer, latex, exterior, MPI #3: BM Ultra Spec Masonry Int/Ext 100% Acrylic Sealer 0608, at 1 mils dry per coat.
- b. Prime Coat: Latex, exterior, matching topcoat.
- c. Intermediate Coat: Latex, exterior, matching topcoat.
- d. Topcoat: Latex, exterior, low-sheen, (Gloss Level 3-4), MPI #214: BM Ultra Spec EXT Exterior Paint- Low Lustre N455, at 1.5 mils dry per coat.
- B. Concrete Substrates, Traffic Surfaces: (MPI EXT 3.2C)
 - 1. Pigmented Polyurethane over Epoxy Slip-Resistant Deck Coating System:
 - a. Prime Coat: Epoxy Pre-Primer: BM Corotech 100% Solids Epoxy Pre-Primer V155, at 2.6 mils dry per coat.
 - b. Intermediate: Epoxy Gloss, Gloss Level 6, MPI #82: BM Corotech Polyamide Epoxy Coating V400, at 2.3 mils dry per coat.
 - c. Topcoat: Polyurethane, two-component, pigmented, gloss, Gloss Level 6, MPI #72, 83: BM Corotech Aliphatic Acrylic Urethane Gloss V500, at 2.8 mils dry per coat, with manufacturer's slip resistant aggregate V630 to produce a non-slip finish.
- C. CMU Substrates:
 - 1. Pigmented Polyurethane over High-Build Epoxy System: (MPI EXT 4.2G)
 - a. Block Filler: Block filler, epoxy, MPI# 116: BM Corotech Epoxy Mastic, at 5.6 mils dry per coat.
 - b. Intermediate Coat: Epoxy, high build, low gloss, MPI #108: BM Corotech Polyamide Epoxy Coating Semi-Gloss V400SG at 2.3 mils dry per coat.
 - c. Topcoat: Polyurethane, two-component, pigmented, semi-gloss, Gloss Level 5, MPI #174: BM Corotech Aliphatic Acrylic Urethane Semi-Gloss V510, at 2.4 mils dry per coat.
 - 2. Latex System: (MPI EXT 4.2L)
 - a. Block Filler: Block filler, latex, interior/exterior: Benjamin Moore Block Filler 0244, at 75 to 100 sq. ft. per gal (9.6 dry mils per coat).
 - b. Intermediate Coat: Latex, exterior, matching topcoat.
 - c. Topcoat: Latex, exterior, semi-gloss, (Gloss Level 5), MPI #11: BM Ultra Spec EXT Exterior Paint- Gloss N449, at 1.5 mils dry per coat.
- D. Steel Substrates:
 - 1. Pigmented Polyurethane System: (MPI EXT 5.1H)
 - a. Prime Coat: Alkyd anti-corrosive, quick dry for metal, MPI #79: Benjamin Moore Super Spec Alkyd Metal Primer P06, at 1.9 mils dry per coat.
 - b. Intermediate/Topcoat: Polyurethane, two component, pigmented, semi-gloss, Gloss Level 5, MPI #174: BM Corotech Aliphatic Acrylic Urethane Semi-Gloss V510, at 2.4 mils dry per coat.
 - c. Intermediate/Topcoat: Polyurethane, two-component, pigmented, gloss (Gloss Level 6), MPI #72: BM Corotech Aliphatic Acrylic Urethane Gloss V500, at 2.8 mils dry per coat.
- E. Galvanized-Metal Substrates:
 - 1. Alkyd System:
 - a. Prime Coat: Primer, galvanized, water based, MPI# 107, 134: Benjamin Moore HP D.T.M. Acrylic Metal Primer HP04, at 2 mils dry per coat.
 - b. Intermediate Coat: Exterior alkyd enamel matching topcoat.
 - c. Topcoat: Alkyd, quick dry, semi-gloss (Gloss Level 5), MPI# 81: BM Corotech Quick Dry Alkyd Enamel Semi-Gloss V231

- d. Topcoat: Alkyd, Quick Dry Enamel Gloss (Gloss Level 6), MPI# 96: BM Corotech Quick Dry Alkyd Enamel Gloss V230
- 2. Water-Based Light Industrial Coating System:
 - a. Prime Coat: Primer, water-based, anti-corrosive for metal, MPI #107, 134: Benjamin Moore HP D.T.M. Acrylic Metal Primer HP04, at 2 mils dry per coat
 - b. Intermediate Coat: Light industrial coating, exterior, water based, matching topcoat.
 - c. Topcoat: Light industrial coating, exterior, water based, gloss, (Gloss Level 6), MPI #154: Benjamin Moore HP D.T.M. Acrylic Enamel Gloss HP28, at 2.3 mils dry, per coat.

END OF SECTION 099113

PART 1 GENERAL

- 1.01 SECTION INCLUDES
 - A. Aggregate base course.
 - B. Single course bituminous concrete paving.

1.02 RELATED REQUIREMENTS

- A. Section 321613 Portland Cement Concrete Curb
- B. Section 321728 Pavement Markings Traffic Paint
- C. Section 321823.39 Synthetic Track Surface

1.03 REFERENCE STANDARDS

- A. AASHTO M 147 Standard Specification for Materials for Aggregate and Soil–Aggregate Subbase, Base, and Surface Courses; 2017 (Reapproved 2021).
- B. AI MS-2 Asphalt Mix Design Methods; 2015.
- C. ASTM C136/C136M Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates; 2019.

1.04 QUALITY ASSURANCE

- A. Perform Work in accordance with State of New York Highways standard.
- B. Mixing Plant: Complying with State of New York Highways standard.
- C. Obtain materials from same source throughout.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Wearing Course: NYSDOT Type 6; 5.8 to 7.0 percent of asphalt cement by weight in mixture.
 1. Graded in accordance with ASTM C136/C136M, within the following limits:
 - Graded in accordance with ASTM C150/C150M, within the
 - a. 1 inch (25 mm) sieve: 100 percent passing.
 - b. 1/2 inch (12.7 mm) sieve: 95-100 percent passing.
 - c. 1/4 inch (6.35 mm) sieve: 65 to 85 percent passing.
 - d. 1/8 inch (3.18 mm) sieve: 36 to 65 percent passing.
 - e. No. 20 (840 micro m) sieve: 15 to 39 percent passing.
 - f. No. 40 (450 micro m): 8 to 27 percent passing.
 - g. No. 80 (177 micro m): 4 to 16 percent passing.
 - h. No. 200 (75 micro m): 3 to 6 percent passing.
- B. Fine Aggregate: In accordance with State of New York Highways standards.

2.02 ASPHALT PAVING MIXES AND MIX DESIGN

PART 3 EXECUTION

3.01 PREPARATION - PRIMER

- A. Apply primer in accordance with manufacturer's instructions.
- B. Apply primer on aggregate base or subbase at uniform rate of 1/3 gal/sq yd (1.5 L/sq m).
- C. Use clean sand to blot excess primer.

3.02 PREPARATION - TACK COAT

- A. Apply tack coat in accordance with manufacturer's instructions.
- B. Apply tack coat on asphalt or concrete surfaces over subgrade surface at uniform rate of 1/3 gal/sq yd (1.5 L/sq m).
- C. Do not apply tack coat to wet or frozen surfaces.

3.03 PLACING ASPHALT PAVEMENT - SINGLE COURSE

- A. Install Work in accordance with State of New York Highways standards.
- B. Place asphalt within 24 hours of applying primer or tack coat.
- C. Compact pavement by rolling to specified density. Do not displace or extrude pavement from position. Hand compact in areas inaccessible to rolling equipment.
- D. Perform rolling with consecutive passes to achieve even and smooth finish without roller marks.

3.04 TOLERANCES

- A. Maximum Variation From Flatness: 1/8 inch measured with 10 foot straight edge.
- B. Maximum Variation From Scheduled Compacted Thickness: 1/8 inch.
- C. Maximum Variation From True Elevation: 1/4 inch.

3.05 FIELD QUALITY CONTROL

- A. Perform field inspection and testing under provisions of Section 014500.
- B. Take samples and perform tests in accordance with AI MS-2.
- C. Tests are to include percent compaction, gradation and asphalt content.
- D. Provide an asphalt thermometer for determining the asphalt temperature during paving operations.
- E. Frequency of Tests: One test for every 1,000 square feet of each pavement course.

3.06 PROTECTION

- A. Protect finished work under provisions of Section 015000.
- B. Immediately after placement, protect pavement from mechanical injury until project is accepted by the Owner.

END OF SECTION



REPORT OF GEOTECHNICAL INVESTIGATION

PROPOSED WHITE PLAINS HIGH SCHOOL IMPROVEMENTS 550 NORTH STREET WHITE PLAINS, WESTCHESTER COUNTY, NEW YORK



Prepared for:

H2M ARCHITECTS & ENGINEERS 538 Broad Hollow Road Fourth Floor East Melville, New York 11747 Prepared by:

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Whitestone Project No.: GJ2219662.Y00 November 2, 2022

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November 2, 2022

via email

H2M ARCHITECTS & ENGINEERS 538 Broad Hollow Road Fourth Floor East

Melville, New York 11747

Attention: Cole Podolsky, LEED AP Project Designer

Regarding: REPORT OF GEOTECHNICAL INVESTIGATION PROPOSED WHITE PLAINS HIGH SCHOOL IMPROVEMENTS 550 NORTH STREET WHITE PLAINS, WESTCHESTER COUNTY, NEW YORK WHITESTONE PROJECT NO.: GJ2219662.Y00

Dear Mr. Podolsky:

Whitestone Associates Engineering & Geology NY, PLLC in conjunction with Whitestone Associates, Inc. (collectively, Whitestone) is pleased to submit the attached *Report of Geotechnical Investigation* for the above-referenced project. The attached report presents the results of Whitestone's soils exploration efforts and presents recommendations for design of the proposed structural foundations, floor slabs, pavements, and related earthwork.

Whitestone's Geotechnical Division appreciates the opportunity to be of continued service to H2M Architects & Engineers (H2M). Please note that Whitestone has the capability to conduct the additional geotechnical engineering services recommended herein.

Please contact us at (908) 668-7777 with any questions or comments regarding the enclosed report.

Sincerely,

WHITESTONE

Mudar Khantamr, P.E. Associate

Keller

Laurence W. Keller, P.E. Vice President

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REPORT OF GEOTECHNICAL INVESTIGATION PROPOSED WHITE PLAINS HIGH SCHOOL IMPROVEMENTS 550 North Street White Plains, Westchester County, New York

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REPORT OF GEOTECHNICAL INVESTIGATION PROPOSED WHITE PLAINS HIGH SCHOOL IMPROVEMENTS 550 North Street White Plains, Westchester County, New York

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APPENDICES

- APPENDIX A Records of Subsurface Exploration
- APPENDIX B Laboratory Test Results
- APPENDIX C Infiltration Test Results
- APPENDIX D Supplemental Information (USCS, Terms & Symbols)

SECTION 1.0 Summary of Findings

Whitestone has conducted an exploration and evaluation of the subsurface conditions for the proposed White Plains High School improvements located at 550 North Street in White Plains, Westchester County, New York. The site of the proposed construction is shown on the *Test Location Plan* included as Figure 1.

At the time of Whitestone's exploration, the site housed the White Plains High School including multiple buildings, athletic fields, tennis courts, and associated pavements, landscaping, and utilities. The existing pavements were observed to be in fair to poor structural condition with multiple areas of variable cracking.

Based on the September 2022 *Soil Boring Plan* prepared by H2M, the proposed redevelopment is anticipated to include demolishing the existing building located within the northwestern portion of the site and constructing an approximately 36,000-square feet building, pavement areas, and turf athletic field with associated subsurface drainage. The proposed building is anticipated to be less than three stories in height and will not contain any below-grade levels. Detailed grading has not been finalized and the finished floor elevation of the proposed structure or pavement grades are not known at this time. However, based on existing grades, Whitestone anticipates that the proposed site will be redeveloped at or near existing grades with maximum cut/fill on the order of five feet.

The subsurface exploration included conducting a reconnaissance of the project site, drilling eight soil test borings and one pavement core, conducting in-situ infiltration testing, and collecting soil samples for laboratory analyses. The data from this exploration and analysis were analyzed by Whitestone in light of the project information provided by H2M.

Subsurface Profile	Subsurface Profile Description			
Surface Cover Material	The soil borings encountered approximately six inches of topsoil at the surface. The pavement core conducted within the existing paved area encountered approximately 3.5 inches of asphaltic concrete at the surface underlain by approximately 5.5 inches of granular subbase materials.	0.5 to 0.75		
Glacial Deposits	Consisting of poorly graded sand (USCS: SP) with variable amounts of silt and clay (USCS: SM and SC), and sandy silt (USCS: ML) with variable amounts of gravel and lesser amounts of apparent cobbles/boulders.	28.4		

A summary of Whitestone's findings is presented below in tabular format and detailed descriptions of the subsurface conditions encountered are presented in Section 4.0.

Subsurface Profile	Description	Bottom of Stratum (fbgs)
Groundwater	Static groundwater was not encountered within the borings conducted to the deepest depth explored of approximately 28.4 fbgs. However, perched/trapper water was encountered within several soil borings at depths ranging from approximately nine fbgs to 10 fbgs. Static groundwater and perched/trapped water conditions likely will fluctuate seasonally, tidally, and following periods of precipitation.	+28.4

fbgs: feet below ground surface

Recommendations developed upon consideration of these findings are summarized in the table below and presented in greater detail in the indicated sections of the report.

Geotechnical Considerations	Recommendation	Report Section		
Foundation System	Whitestone recommends supporting the proposed structure on conventional shallow foundations designed to bear within the underlying naturally occurring site soils and/or on properly placed and compacted structural fill.	5.5		
Floor Slabs and Pavements	Whitestone anticipates that the underlying natural soils and/or controlled structural fill will be suitable for support of the proposed floor slabs and pavements provided these materials are properly recompacted, proofrolled, and evaluated during the construction phase.	5.6 & 5.7		
On-Site Soil Reuse	<i>On-Site Soil Reuse</i> Whitestone anticipates that a majority of the underlying natural materials will be suitable for selective reuse as structural fill and/or backfill throughout the site provided that moisture contents are controlled within two percent of the optimum moisture content.			
Difficult Excavation Considerations	Naturally occurring cobbles/boulders were encountered during this subsurface investigation at highly variable depths ranging between approximately 4.0 fbgs and 28.4 fbgs. As such, removal of dense glacial materials in deeper excavations may be required during construction. Excavation difficulties will be more prevalent in confined excavations, such as foundations and utilities, footing and utility excavations may inadvertently become oversized due to the presence of boulders and require additional backfill materials.	5.2		

SECTION 2.0 Introduction

2.1 AUTHORIZATION

Cole Podolsky, LEED AP of H2M issued authorization to Whitestone to conduct a geotechnical investigation and SWM area evaluation on this site relevant to the proposed site improvements. The geotechnical investigation was conducted in general accordance with Whitestone's October 3, 2022 proposal to H2M.

2.2 PURPOSE

The purpose of this subsurface exploration and analysis was to:

- ► ascertain the various soil profile components at test locations;
- ▶ estimate the engineering characteristics of the proposed foundation bearing and subgrade materials;
- provide geotechnical criteria for use by the design engineers in preparing the foundation and floor slab design;
- ▶ provide recommendations for required earthwork and subgrade preparation;
- record groundwater levels and/or bedrock levels (where encountered) at the time of the investigation and discuss the potential impact on the proposed construction; and
- ► recommend additional investigation and/or analysis (if warranted).

2.3 SCOPE

The scope of the exploration and analysis included the subsurface exploration; field testing and sampling; laboratory analysis; and a geotechnical engineering analysis and evaluation of the subsurface materials. This *Report of Geotechnical Investigation* is limited to addressing the site conditions related to the physical support of the proposed construction. Any references to suspicious odors, materials, or conditions are provided strictly for the client's information.

2.3.1 Field Exploration

Field exploration of the project site was conducted by means of eight soil borings (identified as B-1 through B-8) advanced with a track-mounted drill rig equipped with hollow stem augers and split-spoon sampling

techniques, one pavement core, and seven in-situ infiltration tests (identified as I-1 through I-7). The soil borings were conducted within the areas of the proposed site improvements to depths ranging from approximately four fbgs to 28.4 fbgs. The soil borings were backfilled with excavated soils generated from the investigation. The locations of the soil borings are shown on the *Test Location Plan* included as Figure 1.

The borings were conducted in the presence of a Whitestone engineer who conducted field tests, recorded visual classifications, and collected samples of the various strata encountered. The boring locations were located in the field using normal taping procedures and estimated right angles. These locations are presumed to be accurate within a few feet.

Soil borings and standard penetration tests (SPTs) were conducted in general accordance with ASTM International (ASTM) designation D-1586. The SPT resistance value (N) can be used as an indicator of the consistency of fine-grained soils and the relative density of coarse-grained soils. The N-value for various soil types can be correlated with the engineering behavior of earthworks and foundations.

Groundwater level observations, where encountered, were recorded during and at the completion of field operations prior to backfilling the borings. Seasonal variations, temperature effects, and recent rainfall conditions may influence the levels of the groundwater, and the observed levels will depend on the permeability of the soils. Groundwater elevations derived from sources other than seasonally observed groundwater monitor wells may not be representative of true groundwater levels.

2.3.2 Laboratory Program

In addition to the field investigation, a laboratory program was conducted to determine additional, pertinent engineering characteristics of representative samples of on-site soils. The laboratory program was conducted in general accordance with applicable ASTM standard test methods and included physical/textural testing of representative samples of various strata.

Physical/Textural Analysis: Representative samples of selected strata encountered were subjected to a laboratory program that included Atterberg limits determination (ASTM D-4318), moisture content determinations (ASTM D-2216), and washed gradation analyses (ASTM D-422) in order to conduct supplementary engineering soil classifications in general accordance with ASTM D-2487. The soil strata tested were classified by the Unified Soil Classification System (USCS) and results of the laboratory testing are summarized in the following table.

PHYSICAL/TEXTURAL ANALYSES SUMMARY							
Source of Sample	Sample Number	Depth (fbgs)	Natural Moisture (%)	Liquid Limit (%)	Plastic Index (%)	Passing No. 200 Sieve (%)	USCS Classification
B-1	S-4	6.0 - 8.0	9.8	NP	NP	33.2	SM
B-4	S-5	8.0 - 10.0	4.7	NP	NP	33.1	SM
B-8	S-3	4.0 - 6.0	6.3	27	11	44.5	SC

Notes: NP = Non-Plastic

The engineering classifications are useful when considered in conjunction with the additional site data to estimate properties of the soil types encountered and to predict the soil's behavior under construction and service loads. Laboratory test results are provided in Appendix B.

2.3.3 Infiltration Testing

Infiltration tests were conducted at the anticipated level of infiltration within the proposed SWM areas at borings B-1, B-2, and B-4 through B-8. Infiltration testing was conducted in general accordance with the *New York State Stormwater Design Manual*. The tests conducted resulted in field infiltration rates ranging from approximately less than 0.2 inches per hour (iph) to 6.7 iph. Infiltration test results are provided in Appendix C.

SECTION 3.0 Site Description

3.1 LOCATION AND DESCRIPTION

The subject site is located at 550 North Street in White Plains, Westchester County, New York. The site is bound to the north by a church and Bryant Avenue, to the east by Bryant Avenue and Westchester Avenue, to the south by residential buildings, and to the west by North Street. The site of the proposed construction is shown on the *Test Location Plan* included as Figure 1.

3.2 EXISTING CONDITIONS

Surface Cover/Development: At the time of Whitestone's exploration, the site housed the White Plains High School including multiple buildings, athletic fields, tennis courts, and associated pavements, landscaping, and utilities. The existing pavements were observed to be in fair to poor structural condition with multiple areas of variable cracking.

Topography: A topographic survey was not available at the time of Whitestone's investigation, however, based on visual observation, the site appeared be generally flat lying with moderate west dipping slopes within the central portion of the site and overall grade changes on the order of approximately 50 feet across the property.

Utilities: At the time of Whitestone's subsurface field investigation, the subject site was serviced by public and private utilities including aboveground and underground electric, telephone, communication, water, natural gas, sanitary and stormwater sewer lines. Other utilities were not observed at the subject site by Whitestone but may be present. The utility information contained in this report is presented for general discussion only and is not intended for construction purposes.

Site Drainage: Surface runoff generally consists of sheet flow across the existing ground surface and generally appeared to flow in an easterly direction.

3.3 SITE GEOLOGY

The area of the subject site is situated within the Manhattan Prong of the New England Uplands Physiographic Province of the Northeastern United States. The site reportedly is underlain by the Middle Ordovician to Lower Cambrian-age Hartland Formation. This formation generally consists of basal amphibolite overlain by pelitic schists. Overburden materials in the region also typically include glacial deposits associated with Wisconsinan Glaciation that reached a most southerly advance approximately 20,000 years ago. Overlying materials also include manmade fill associated with past and present development of the site.

3.4 PROPOSED CONSTRUCTION

Based on the *Soil Boring Plan* prepared by H2M, the proposed redevelopment is anticipated to include demolishing the existing building located within the northwestern portion of the site and constructing an approximately 36,000-square feet building, pavement areas, and turf athletic field with associated subsurface drainage. The proposed building is anticipated to be less than three stories in height and will not contain any below-grade levels.

Detailed grading has not been finalized and the finished floor elevations of the proposed structure or pavement grades are not known at this time. However, based on existing grades, Whitestone anticipates that the proposed site will be redeveloped at or near existing grades with maximum cut/fill on the order of five feet.

The anticipated maximum loads for the proposed structures are expected to be as follows:

- ► column loads 225 kips;
- ► wall loads 3.0 kips/linear foot;
- ► floor slab loads 125 pounds per square foot (psf);

Detailed structural information has not yet been provided. The above-referenced loads are based on past experience with similar facilities and should be confirmed by the project structural engineer. The scope of Whitestone's investigation and the professional advice contained in this report were generated based on the project details and loading noted herein. Any revisions or additions to the design details enumerated in this report should be brought to the attention of Whitestone for additional evaluation as warranted.

SECTION 4.0 Subsurface Conditions

4.1 SUBSURFACE SOIL CONDITIONS

Details of the subsurface materials encountered are presented on the *Records of Subsurface Exploration* presented in Appendix A of this report. The subsurface soil conditions encountered in the soil borings consisted of the following generalized strata in order of increasing depth.

Surface Cover: The subsurface tests were conducted within the existing landscaped and paved areas. The soil borings encountered approximately six inches of topsoil at the surface. The pavement core conducted within the existing paved area encountered approximately 3.5 inches of asphaltic concrete at the surface underlain by approximately 5.5 inches of granular subbase materials.

Glacial Deposits: Underlying the surface cover, the subsurface tests encountered natural glacial deposits consisting of poorly graded sand (USCS: SP) with variable amounts of silt and clay (USCS: SM and SC), and sandy silt (USCS: ML) with variable amounts of gravel and occasional apparent cobbles/boulders. The borings were terminated within the glacial deposits at depths ranging from approximately four fbgs to 28.4 fbgs. SPT N-values within coarse-grained portions of this stratum ranged between two blows per foot (bpf) and refusal (defined as greater than 50 blows per six-inch advancement of the split-spoon sampler), generally indicating very loose to very dense relative density and averaging approximately 29 bpf.

4.2 GROUNDWATER

Static groundwater was not encountered within the borings conducted to the deepest depth explored of approximately 28.4 fbgs. However, perched/trapper water was encountered within several soil borings at depths ranging from approximately nine fbgs to 10 fbgs. Static groundwater and perched/trapped water conditions likely will fluctuate seasonally and following periods of precipitation.

SECTION 5.0 Conclusions and Recommendations

5.1 GENERAL

Whitestone recommends supporting the proposed structure on conventional shallow foundations bearing on the underlying natural soils and/or properly placed structural fill that are properly inspected, placed, and compacted in accordance with Sections 5.2, 5.3, and 5.11 of this report. The proposed floor slabs and pavements also may be supported on the underlying natural soils and/or properly placed structural fill.

Machine auger and split-spoon refusal on naturally deposited cobbles/boulders was encountered during this subsurface investigation at highly variable depths. As such, removal of dense glacial materials in deeper excavations may be required during construction. Excavation difficulties will be more prevalent in confined excavations, such as foundations and utilities, footing and utility excavations may inadvertently become oversized due to the presence of boulders and require additional backfill materials.

5.2 SITE PREPARATION AND EARTHWORK

Surface Cover Stripping and Demolition: Prior to stripping operations, all utilities should be identified and secured. The existing structure and pavements to be demolished and stripped should be removed from within the limits of any areas requiring structural fill. Existing structural elements, such as foundation walls, or any concrete foundations, walls or slabs encountered during excavations, should be removed entirely from below proposed foundations and associated zones of influence (as determined by lines extending at least one foot laterally beyond footing edges for each vertical foot of depth) and excavated to at least two feet below proposed construction subgrade levels elsewhere. Foundations and slabs may remain in place below these depths below proposed ground-supported slabs, drive isles, and landscaped areas provided there is no interference with future construction. Any existing slab to remain should be thoroughly broken such that maximum particle size is 12 inches to allow vertical drainage of water. The demolition contractor should be required to conduct all earthwork in accordance with the recommendations in this report including backfilling any excavation, utility, etc. with structural fill. All fill or backfill placed in structural areas during any demolition operations should be placed as structural fill in accordance with Section 5.2, 5.3, and 5.11 of this report.

Difficult Excavation Considerations: Naturally deposited cobbles/boulders were encountered during this subsurface investigation at highly variable depths ranging between approximately four fbgs and 28.4 fbgs. As such, removal of dense glacial materials in deeper excavations may be required during construction, depending on final grading. Excavation difficulties will be more prevalent in confined excavations, such as foundations and utilities, footing and utility excavations may inadvertently become oversized due to the presence of boulders and require additional backfill materials.

Surface Preparation/Proofrolling: Prior to placing any fill or subbase materials to raise grades to the desired subgrade elevations, the existing exposed soils should be compacted to a firm and unyielding surface with several passes in two perpendicular directions of a minimum 10-ton, smooth drum roller. The surface should be proofrolled with a loaded tandem axle truck in the presence of the geotechnical engineer to help identify soft or loose pockets which may require removal and replacement or further investigation. Any fill or backfill should be placed and compacted in accordance with Section 5.3.

Weather Performance Criteria: Because portions of the site soils are moderately to highly moisture sensitive and may soften when exposed to water, every effort must be made to maintain drainage of surface water runoff away from construction areas by grading and limiting the exposure of excavations and prepared subgrades to rainfall. Accordingly, excavation and fill placement procedures should be conducted during favorable weather conditions. Overexcavation of saturated soils and replacement with controlled structural fill per Section 5.3 of this report may be required prior to resuming work on disturbed subgrade soils.

Subgrade Protection and Inspection: Every effort should be made to minimize disturbance of the on-site materials by construction traffic and surface runoff. The on-site soils will deteriorate when subjected to repeated wetting and construction traffic and likely will require extensive drying or overexcavation and replacement. Construction schedules and budgets should account for contingencies, such as importing materials to raise grades or restore overexcavations when construction must occur following wet weather or on an expedited basis. However, if properly protected and maintained during warm, dry weather as recommended herein, the site soils will provide adequate support for the proposed construction. The site contractors should employ necessary means and methods to protect the subgrade including, but not limited to the following:

- leaving the existing pavement in place as long as practical to protect the subgrade from freeze-thaw cycles and exposure to inclement weather;
- ► sealing exposed subgrade soils on a daily basis with a smooth drum roller operated in static mode;
- ► regrading the site as needed to maintain positive drainage away from construction areas;
- ► removing wet surficial soils and ruts immediately; and
- ► limiting exposure to construction traffic especially following inclement weather and subgrade thawing.

5.3 STRUCTURAL FILL AND BACKFILL

Imported Fill Material: Any imported material placed as structural fill or backfill to raise elevations or restore design grades should consist of clean, relatively well graded sand or gravel with a maximum particle
size of three inches and five percent to 10 percent of material finer than a #200 sieve. Silts, clays, and silty or clayey sands and gravels with higher percentage of fines and with a liquid limit less than 40 and a plasticity index less than 20 may be considered subject to the owner's approval, provided that the required moisture content and compaction controls are met. The material should be free of clay lumps, organics and deleterious material. Imported structural fill material should be approved by a qualified geotechnical engineer prior to delivery to the site.

On-Site Material: Based on the conditions disclosed by the soil borings, Whitestone anticipates that a majority of the underlying natural soils will be suitable for selective reuse as structural fill and/or backfill provided moisture contents are controlled within two percent of the optimum during favorable weather conditions. The reuse of the fine-grained soils (USCS: ML) and granular site soils with more than 12 percent fines (USCS: SM) typically is possible only during extended periods of ideal weather conditions. Reuse of these soils may require mixing with a granular material, extensive moisture conditioning, and/or drying to facilitate their reuse, workability, and compaction in fill areas.

The on-site soils will become increasingly difficult to reuse and compact where wetted beyond the optimum moisture content. Immediate re-use of on-site soil should not be anticipated. Materials that are, or become, exceedingly wet likely will require discing and aerating that may not be practical during wet seasons. Alternatively, imported fill materials may be used to attain the desired grades and expedite earthwork operations. The stripped asphaltic concrete pavement and topsoil should not be used as fill or backfill.

Cobble- and boulder-sized materials or similarly sized materials greater than three inches in diameter will need to be separated from on-site soils to be placed as structural fill or backfill. Cobble-sized materials between three inches to 12 inches may be crushed or individually placed in structural fill or backfill layers deeper than two feet below proposed foundation and pavement subgrade levels. Care must be taken to individually seat any large particles and to compact soil around large particles with hand operated equipment to minimize risk of void formation. Boulder-sized materials greater than 12 inches in diameter need to be crushed prior to replacement as structural fill materials. Materials greater than three inches in size should be placed a minimum of three feet from utilities.

Demolition Material: Demolition material, free of environmental restrictions, may be used as fill material provided the material is properly segregated and processed as recommended herein. Concrete masonry materials, if generated, should be crushed to a well graded blend with a maximum size of three inches in diameter. Stripped asphaltic materials and deleterious building materials such as wood, insulation, metal shingles etc. should not be used as general structural fill material.

Compaction and Placement Requirements: All fill and backfill should be placed in maximum nine- inch loose lifts and compacted to 95 percent of the maximum dry density within two percent of the optimum moisture content as determined by ASTM D 1557 (Modified Proctor). Whitestone recommends using a vibratory drum roller to compact the on-site soils or a small handheld vibratory compactor within excavations.

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Structural Fill Testing: A sample of the imported fill material or any on-site material proposed for reuse as structural fill or backfill should be submitted to the geotechnical engineer for analysis and approval at least one week prior to its use. The placement of all fill and backfill should be monitored by a qualified engineering technician to ensure that the specified material and lift thicknesses are properly installed. A sufficient number of in-place density tests should be conducted to ensure that the specified compaction is achieved throughout the height of the fill or backfill.

5.4 GROUNDWATER CONTROL

Static groundwater was not encountered within borings conducted to the deepest depth explored of approximately 28.4 fbgs. However, perched/trapper water was encountered within several soil borings at depths ranging from approximately nine fbgs to 10 fbgs. As such, Whitestone anticipates that static groundwater will be deeper than proposed foundation and utility excavations and does not anticipate the need for extensive dewatering or permanent groundwater control. Trapped/perched water may be encountered within the finer-grained natural site soils, especially following precipitation events. As such, construction phase dewatering of trapped/perched water through the use of gravity fed sump pumps should be anticipated during excavation activities for this site. A gravity fed sump pump should be suitable for minor temporary dewatering of any trapped water or surface runoff encountered during excavations.

Because the subsurface soils will soften when exposed to water, every effort must be made to maintain drainage of surface water runoff away from construction areas by grading and limiting the exposure of excavations to rainfall. Overexcavation of saturated soils and replacement with controlled structural fill and/or one foot to two feet of open graded gravel (such as 3/4-inch clean crushed stone) may be required prior to resuming work on disturbed subgrade soils.

5.5 FOUNDATIONS

Foundation Design Criteria: Whitestone recommends supporting the proposed structures on either conventional shallow spread foundations designed to bear within the underlying natural materials or controlled structural fill provided these materials are properly evaluated, placed and compacted in accordance with the recommendations in this report. Foundations bearing within the natural site soils or controlled structural fill may be designed to impart a maximum allowable net bearing pressure of 4,000 pounds per square foot.

All footing bottoms should be improved by in-trench compaction in the presence of the owner's geotechnical engineer. Regardless of loading conditions, proposed foundations should be sized no less than minimum dimensions of 24 inches for continuous wall footings and 36 inches for isolated column footings.

Below-grade wall footings should be designed so that the maximum toe pressure due to the combined effect of vertical loads and overturning moment does not exceed the recommended maximum allowable net bearing pressure. In addition, positive contact pressure should be maintained throughout the base of the footings such that no uplift or tension exists between the base of the footings and the supporting soil. Uplift loads should be resisted by the weight of the concrete. Lateral resistance should be provided by friction resistance at the base of the footings. A coefficient of friction against sliding of 0.35 is recommended for use for foundations bearing within on-site soils or imported structural fill soils.

Foundation Inspection/Overexcavation Criteria: Whitestone recommends that the suitability of the bearing soils along and below the footing bottoms be verified by a geotechnical engineer prior to placing concrete for the footings. Where areas of unsuitable materials are encountered in footing excavations, overexcavation and recompaction or replacement may be necessary to provide a suitable footing subgrade in accordance with Sections 5.2 and 5.3. Any overexcavation to be restored with structural fill will need to extend at least one foot laterally beyond footing edges for each vertical foot of overexcavation. Lateral overexcavation can be reduced if the grade is restored with lean concrete or approved flowable fill. The bottom of overexcavation should be compacted with vibrating plates or plate tampers ("jumping jacks") to compact locally disturbed materials.

Settlement: Whitestone estimates post construction settlements of proposed foundations of less than one inch if the recommendations outlined in this report are properly implemented. Differential settlements of building foundations should be less than one-half inch.

Frost Coverage: Footings subject to frost action should be placed at least 42 inches below adjacent exterior grades or the depth required by local building codes to provide protection from frost penetration. Interior footings not subject to frost action could be placed at a minimum depth of 18 inches below the slab subgrade provided the footings bear on properly prepared site soils or on properly placed structural subgrade.

5.6 FLOOR SLAB

Whitestone anticipates that the underlying natural soils and/or compacted structural fill and/or backfill placed to raise or restore design elevations are expected to be suitable for support of the proposed floor slabs provided these materials are properly compacted and proofrolled in accordance with Sections 5.2, 5.3, and 5.11 of this report during favorable weather conditions. Any areas that are, or become, softened or disturbed as a result of wetting and/or repeated exposure to construction traffic should be removed and replaced with compacted structural fill. The properly prepared on-site soils are expected to yield a minimum subgrade modulus (k) of 150 psi/in.

A minimum four-inch layer of coarse aggregate, such as AASHTO #57 stone, dense graded aggregate, or equal, should be installed below ground-supported floor slabs to provide a capillary break. An impervious membrane also should be provided as a moisture vapor barrier beneath all floor slabs.

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5.7 PAVEMENT DESIGN CRITERIA

General: Whitestone anticipates that the underlying natural materials, and/or compacted structural fill and/or backfill placed to raise or restore design elevations are expected to be suitable for support of the proposed pavements provided these materials are properly evaluated, compacted, and proofrolled in accordance with Sections 5.2, 5.3, and 5.11 of this report during favorable weather conditions. Localized areas of overexcavation may be anticipated if the subgrades are exposed to precipitation.

Design Criteria: A California Bearing Ratio value of five has been assigned to the properly prepared subgrade soils for pavement design purposes based on laboratory test results and climatic factors. This value was correlated with pertinent soil support values and assumed traffic loads to prepare flexible and rigid pavement designs per the AASHTO *Guide for the Design of Pavement Structures*.

Design traffic loads were assumed based on typical volumes for similar facilities and correlated with 18kip equivalent single axle loads (ESAL) for a 20 year life. An estimated maximum load of 25,000 ESAL was used for all pavement areas assuming the pavement primarily will accommodate both automobile and limited heavier truck traffic. Actual pavement loads should be less than this value.

FLEXIBLE PAVEMENT SECTION													
Layer Material Thickness (Inches)													
Asphalt Surface	NYSDOT Type 7 or 7F Top	1.5											
Asphalt Base	NYSDOT Type 3 Binder	2.5											
Granular Subbase	NYSDOT Type 2 Subbase	6.0											

Pavement Sections: The recommended flexible pavement section is presented below:

A rigid concrete pavement should be used to provide suitable support at areas of high traffic or severe turns (such as at ingress/egress locations). The recommended rigid pavement is presented below in tabular format:

RIGID PAVEMENT SECTION											
Layer	Material	Thickness (Inches)									
Surface	4,000 psi air-entrained concrete	5.0^{1}									
Base	NYSDOT Type 2 Subbase	6.0									

Note¹: The outer edges of concrete pavements are susceptible to damage as trucks move from rigid pavement to adjacent flexible pavement. Therefore, the thickness at the outer two feet of the rigid concrete pavement should be 12 inches.

5.8 LATERAL EARTH PRESSURES

General: No proposed retaining structures were identified on the *Soil Boring Plan* prepared by H2M however, below-grade walls may be required. While the design and investigation of retaining structures are beyond Whitestone's current scope of work, Whitestone would be pleased to assist with the calculation of lateral earth pressures based on the soil parameters presented herein during the structural design phase when final grading and wall geometries are available.

Lateral Earth Pressures: Temporary retaining structures and permanent retaining/below-grade walls may be required to resist lateral earth pressures. Proposed retaining/below-grade walls must be capable of withstanding active and at-rest earth pressures. Retaining/below-grade walls free to rotate generally can be designed to resist active earth pressures. Retaining/below-grade walls corners and restrained walls need to be designed to resist at-rest earth pressures. Such structures should be properly designed by the Owner's engineer. The following soil parameters apply to the encountered subsurface strata and may be used for design of the proposed temporary and permanent retaining structures.

LATERAL EARTH PRESSURE PARAMETERS											
Parameter	On-Site Soils	Imported Granular Backfill									
Moist Density (y _{moist})	140 pcf	140 pcf									
Internal Friction Angle (q)	28°	30°									
Active Earth Pressure Coefficient (K _a)	0.36	0.33									
Passive Earth Pressure Coefficient (K _p)	2.77	3									
At-Rest Earth Pressure Coefficient (K _o)	0.53	0.5									

Lateral earth pressure will depend on the backfill slope angle and the wall batter angle. A sloped backfill will add surcharge load and affect the angle of the resultant force. The effect of other surcharges will also need to be included in earth pressure calculations, including the loads imposed by adjacent structures and traffic. The effects of proposed sloped backfill surface grades, and proposed slopes beyond the toe of the retaining structure, if applicable, must be considered when calculating resultant forces to be resisted by the retaining structure. A coefficient of friction of 0.35 against sliding can be used for concrete on the existing site soils. Retaining/below-grade wall footings should be designed so that the combined effect of vertical and horizontal resultants and overturning moment does not exceed the maximum soil bearing capacity provided in Section 5.5.

Backfill Criteria: Whitestone recommends that granular soils be used to backfill behind the proposed retaining/below-grade walls. The granular backfill materials should consist of clean, relatively well graded sand or gravel with a maximum particle size of three inches and five percent to 15 percent of material finer than a #200 sieve. The material should be free of clay lumps, organics, and deleterious material. Limited portions of the on-site soils encountered consisted of poorly graded sand (USCS: SP) which are anticipated

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to be satisfactory for retaining/below-grade wall backfill, if encountered during site excavations. The remaining portions of the existing site soils are not anticipated to be suitable for retaining/below-grade wall backfill. Cobbles/boulders greater than three inches should also not be used as backfill. Accordingly, imported granular soils may be required. A maximum density of 140 pcf should not be exceeded to avoid creating excessive lateral pressure on the walls during compaction operations.

Whitestone recommends that backfill directly behind any walls be compacted with light, hand-held compactors. Heavy compactors and grading equipment should not be allowed to operate within a zone of influence measured at a 45-degree angle from the base of the walls during backfilling to avoid developing excessive temporary or long-term lateral soil pressures.

Wall Drainage: Positive gravity drainage of the backfill should be provided at the base of the retaining/below-grade walls by a series of perforated pipes surrounded by at least 12 inches of clean crushed stone that discharges into a stormwater sewer or daylight to appropriate site surface drainage. Whitestone recommends that a two-foot wide zone of clean crushed stone or washed sand, separated from the backfill by a filter fabric, be constructed adjacent to the back of the wall. This zone should prevent the buildup of hydrostatic pressures and pressures from freezing moisture in the backfill. The vertical drain should be tied into the gravity drainage system (perforated pipe) installed at the base of the wall. Alternatively, temporary retaining walls may include weep holes instead of a drain tied to the site drainage system. If wall drainage is not provided, the wall should be designed to withstand full hydrostatic pressure.

Whitestone should be notified if any other retaining structures or design considerations requiring lateral earth pressure estimations are proposed. Specific recommendations for temporary retaining structures are beyond Whitestone's scope of work.

5.9 SEISMIC AND LIQUEFACTION CONSIDERATIONS

Based on a review of the subsurface conditions relevant to the *New York State International Building Code* (2020), the subject site may be assigned a Site Class D. Based on the seismic zone and soil profile liquefaction considerations are not expected to have a substantial impact on design.

5.10 EXCAVATIONS

The soils encountered during this investigation within anticipated excavation depths are at least consistent with Type C Soil Conditions as defined by 29 CFR Part 1926 (OSHA) which require a maximum unbraced excavation angle of 1.5:1 (horizontal:vertical). Actual conditions encountered during construction should be evaluated by a competent person (as defined by OSHA) to ensure that safe excavation methods and/or shoring and bracing requirements are implemented.

5.11 SUPPLEMENTAL POST INVESTIGATION SERVICES

Supplemental Borings and Test Pits/ Final Design Review: Apparent naturally deposited cobbles/boulders were encountered during this subsurface investigation at highly variable depths ranging between approximately four fbgs and 28.4 fbgs. As such, removal of dense glacial materials in deeper excavations may be required during construction. Whitestone recommends that a supplemental subsurface investigation designed to address site-specific conditions for proposed construction, including refusal depths on apparent obstructions within the natural glacial deposits, should be conducted following demolition of the existing structures and finalization of the design concept, structural loading, grading, and general site layout. The final subsurface investigation and geotechnical evaluation should be conducted to obtain subsurface information across the site at more closely spaced intervals within the building footprint and new pavements areas as well as to confirm the recommendations provided within this report.

Construction Monitoring and Testing: The owner's geotechnical engineer with specific knowledge of the subsurface conditions and design recommendations should conduct inspection, testing, and consultation during construction as described in previous sections of this report. Monitoring and testing should also be conducted to verify that the existing site structures are properly demolished and subsequently backfilled, existing surface cover materials are properly removed, and suitable materials used for controlled fill are properly placed and compacted over suitable subgrade soils. The proofrolling of all subgrades prior to structural support should be witnessed and documented by the owner's geotechnical engineer.

SECTION 6.0 General Comments

Supplemental recommendations may be required upon finalization of construction plans or if significant changes are made in the characteristics or location of the proposed structure. Soil bearing conditions should be checked at the appropriate time for consistency with those conditions encountered during Whitestone's geotechnical investigation.

The recommendations presented herein should be utilized by a qualified engineer in preparing the project plans and specifications. The engineer should consider these recommendations as minimum physical standards which may be superseded by local and regional building codes and structural considerations. These recommendations are prepared for the sole use of H2M Architects & Engineers for the specific project detailed and should not be used by any third party. These recommendations are relevant to the design phase and should not be substituted for construction specifications.

The possibility exists that conditions between borings may differ from those at specific boring locations, and conditions may not be as anticipated by the designers or contractors. In addition, the construction process may alter soil and rock conditions. Therefore, experienced geotechnical personnel should observe and document the construction procedures used and the conditions encountered.

Whitestone assumes that a qualified contractor will be employed to conduct the construction work, and that the contractor will be required to exercise care to ensure all excavations are conducted in accordance with applicable regulations and good practice. Particular attention should be paid to avoiding damaging or undermining adjacent properties and maintaining slope stability. Whitestone recommends that the services of the geotechnical engineer be engaged to test and evaluate the soils in the footing excavations prior to concreting in order to determine that the soils will support the bearing capacities. Monitoring and testing also should be conducted to verify that suitable materials are used for controlled fills and that they are properly placed and compacted over suitable subgrade soils.

The exploration and analysis of the foundation conditions reported herein are considered sufficient in detail and scope to form a reasonable basis for the foundation design. The recommendations submitted for the proposed construction are based on the available soil information and the design details furnished by H2M Architects & Engineers. Deviations from the noted subsurface conditions encountered during construction should be brought to the attention of the geotechnical engineer.

The geotechnical engineer warrants that the findings, recommendations, specifications, or professional advice contained herein have been promulgated after being prepared in accordance with generally accepted professional engineering practice in the fields of foundation engineering, soil mechanics, and engineering geology. No other warranties are implied or expressed.

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FIGURE 1 Test Location Plan





APPENDIX A Records of Subsurface Exploration



Project:		White	e Plains High School	l Impro	ovemen	ts	WAI Project No.: GJ2219662.Y00						
Location:		550 N	lorth Street; White P	Plains,	Westch	ester Co	unty, NY				Client:	H2M Architects &	Engineers
Surface El	evatio	n:	± NS feet	t			Date Started:		10/10/2022	Water Depth	Elevation	Cave-Ir	Depth Elevation
Terminatio	on Dep	th:	27.0 feet	t bgs			Date Complet	ed:	10/10/2022	(feet bgs)	(feet)	(fe	et bgs) (feet)
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Boring No.: B-1

Page 2 of 2

Project:		White Plains High School Improvements								WAI P	roject No.:	GJ2219662.Y00	
Location:		550 N	lorth Street; White P	'lains,	Westch	ester Co	unty, NY				Client:	H2M Architects 8	Engineers
Surface El	levatio	n:	± <u>NS</u> fee	t			Date Started:	_	10/10/2022	Water Depth	Elevation	Cave-Ir	Depth Elevation
Terminatio	on Dep	th:	fee	t bgs			Date Complet	ed:	10/10/2022	(feet bgs)	(feet)	(fe	et bgs) (feet)
Proposed	Locati	on:	Building				Logged By:	MO		During: 9.0 (P)	NS T		
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							Equipment:	AMS-9	9580	24 Hours:	<u> </u> ▼	24 Hours:	<u>\\</u>
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Boring No.: B-2

Project:		White	Plains High School	Impro	vement	s					WAI Project No.:	GJ2219662.Y00	
Location:		550 N	lorth Street; White P	Plains,	Westch	ester Cou	inty, NY			Client: H2M Architec			Engineers
Surface El	evatio	n:	± NS feet	t		I	Date Started:	_	10/10/2022	Wate	er Depth Elevation	Cave-In	Depth Elevation
Terminatio	on Dep	th:	28.4 feet	t bgs		1	Date Complete	ed:	10/10/2022	(fe	eet bgs) (feet)	(fe	et bgs) (feet)
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Drill / Test	Metho	d:	HSA / SPT				Contractor:	ECG		At Completion:	🗸	At Completion:	🖂
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4 - 6	S-3	X	6 - 11 - 13 - 16	17	24	5.0			Brown Silty Sand v	vith Gravel, Moist, M	ledium Dense (SM)		
6 - 8	S-4	$\left \right\rangle$	12 - 13 - 17 - 16	18	30	-			As Above, Dense	SM)			
8 - 10	S-5	X	11 - 15 - 11 - 13	24	26	10.0	 		As Above, Very M	bist, Medium Dense	(SM)		
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15 - 17	S-7	X	32 - 37 - 43 - 50	24	60	- - - - -			Gray Poorly Grade	d Sand with Gravel,	Moist, Very Dense (SP)		
20 - 22	S-8	X	14 - 15 - 21 - 21	16	36	20.0			Gray/Brown Silty S	and, Wet, Dense (S	M)		
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Page 2 of 2

Project:		White	Plains High School	Impro	ovement	ts				WAI Project No.: 0	GJ2219662.Y00	
Location:		550 N	lorth Street; White F	Plains,	Westch	nester Co	unty, NY			Client: H	H2M Architects &	Engineers
Surface El	evatio	n:	± NS fee	t			Date Started:	-	10/10/2022	Water Depth Elevation	Cave-In	Depth Elevation
Terminatio	on Dep	th:	28.4 fee	t bgs			Date Complet	ed:	10/10/2022	(feet bgs) (feet)	(fe	et bgs) (feet)
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Surface El	levatio	n:	± NS fee	t			Date Started:		10/11/2022	Water Depth	Elevation	Cave-Ir	Depth Elevation
Terminatio	on Dep	th:	4.0 fee	t bgs			Date Complete	ed:	10/11/2022	(feet bgs)	(feet)	(fe	et bgs) (feet)
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						0.5	TOPSOIL	<u>\\\/</u>	6" Topsoil				
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Project:		White	Plains High School	Impro	vement	S	WAI Project No.: GJ2219662.Y00							
Location:		550 N	lorth Street; White P	lains,	Westch	ester Cou	unty, NY			-		Client:	H2M Architects 8	Engineers
Surface E	levatio	n:	± <u>NS</u> feet	t		1	Date Started:	-	10/11/2022	Water I	Depth	Elevation	Cave-Ir	Depth Elevation
Terminatio	on Dep	th:	12.0 feet	t bgs			Date Complet	ed:	10/11/2022	(feet	t bgs)	(feet)	(fe	et bgs) (feet)
Proposed	Locati	on:	Building				Logged By:	MO		During:	NE	<u> </u>		
Drill / Test	Metho	od:	HSA / SPT				Contractor:	ECG		At Completion:	NE	<u> </u>	At Completion:	<u> </u> <u>k</u>
							Equipment:	AMS-9	9580	24 Hours:		¥	24 Hours:	<u> </u> <u>\</u>
	SA	MPL	E INFORMATION			DEPTH				•				
Depth		1		Rec.	1		STRAT	A		DESCRIPTION	OF MA	ATERIALS	;	REMARKS
(feet)	No	Туре	Blows Per 6"	(in.)	N	(feet)		1		(Classi	ificatio	n)		
						0.0	TOPSOIL	NU/	6" Topsoil					
		\mathbf{V}				-	GLACIAL	1111	Brown Silty Sand,	Moist, Very Loose (SM)	l)			
0 - 2	S-1	Å	1 - 1 - 1 - 2	13	2		DEPOSITS							
		/					1							
		$\setminus /$					4							
2 - 4	S-2	X	3 - 6 - 3 - 11	15	9		4		As Above, Loose	(SM)				
		$/ \setminus$				-	4							
		$\left(\rightarrow \right)$				1 —	1							
1.6	6.2	\mathbf{V}	12 11 10 10	10	21	5.0	1		As Above Medium	n Danaa (SM)				
4 - 0	5-3	Λ	12 - 11 - 10 - 10	12	21]		AS ADOVE, MEDIUN	n Dense (Sivi)				
		\square				I _	4							
		$\backslash /$				-	$\frac{1}{2}$							
6 - 8	S-4	Х	12 - 10 - 10 - 10	14	20		4		As Above (SM)					
		/				-	1							
		$\overline{}$				1 —	1							
8 - 10	S-5	V	9 - 10 - 31 - 22	15	41]		As Above with Gr	avel Dense (SM)				
		\wedge	0 10 01 22				4							
		$\left(\rightarrow \right)$				10.0	4							
		\bigvee				-	4							
10 - 11.9	S-6	Å	32 - 26 - 16 - 5"	15	42	_	1		As Above (SM)					Auger Refusal @
						12.0	1							12.0 fbgs
						-	4		Boring Log B-4 Te Auger and Spoon	erminated at a Depth of Refusal	12.0 Fee	t Below Grour	nd Surface Due to	Spoon Refusal @ 12.0 fbgs
							+		· ·					-
						-	4							
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						15.0]							
						-	4							
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						-	1							
							1							
						25.0	1							



Project:		White	Plains High School	Impro	ovement	ts	WAI Project No.: GJ2219662.Y00						
Location:		550 N	lorth Street; White P	lains,	Westch	nester Co	unty, NY			Client:	H2M Architects &	Engineers	
Surface El	evatio	n:	± <u>NS</u> feet	t			Date Started:	_	10/11/2022	Water Depth Elevation	Cave-In	Depth Elevation	
Terminatio	on Dep	th:	6.4 feet	t bgs			Date Complete	ed:	10/11/2022	(feet bgs) (feet)	(fe	et bgs) (feet)	
Proposed	Locati	on:	Athletic Field				Logged By:	MO		During: NE 🝸			
Drill / Test	Metho	od:	HSA / SPT				Contractor:	ECG		At Completion: NE 🗸	At Completion:	🖂	
							Equipment:	AMS-9	9580	24 Hours: 🗶 2	24 Hours:	🔟	
				1									
	SA	MPL				DEPTH	I STRAT	-Δ		DESCRIPTION OF MATERIALS		REMARKS	
Depth (foot)	No	Type	Blows Por 6"	Rec.	N	(foot)	UIIIAI	^		(Classification)		ILEMAN ICO	
(1661)	NO	Type	Diowa i ei o	()		0.0				(01400110141011)			
						0.5	TOPSOIL	<u>\\\/</u>	6" Topsoil				
		\mathbf{V}					GLACIAL	1414	Brown Silty Sand,	Moist, Medium Dense (SM)			
0 - 2	S-1	Å	4 - 5 - 6 - 14	18	11		DEPOSITS						
		/					1						
		\setminus /]						
2 - 4	S-2	V	12 - 12 - 11 - 8	16	23				As Above, with Gr	avel (SM)			
		Λ											
		()				4.0	4	HH					
		\ /					4						
4 - 6	S-3	X	12 - 18 - 24 - 50/	22	42	5.0	4		Brown/White Poo	ly Graded Sand with Gravel, Slightly Moist, Den	nse (SP)		
		/	5			60	4						
6-64	S-4	$ \Leftrightarrow$	50/5"		50/5"	6.4	4	90	White Poorly Grad	ded Gravel with Sand, Moist, Very Dense (GP)			
	5.4	\sim	00,0		30/0			02	Boring Log B-5 Te	rminated at a Depth of 6.4 Feet Below Ground	Surface Due to	Auger and Spoon	
							-		Auger and Spoon	Refusal		Refusal @ 6.5 fbgs	
							1						
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						10.0							
							4						
							4						
							4						
							4						
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						20.0	4						
						-	4						
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							1						
						_	4						
						05.0	4						
						25.0	4						



Boring No.: B-6

Project:		White	Plains High School	Impro	ovement	S				WAI Project No.:	GJ2219662.Y00	
Location:		550 N	lorth Street; White P	Plains,	Westch	ester Cou	unty, NY			Client:	H2M Architects &	Engineers
Surface El	levatio	n:	± <u>NS</u> feet	t			Date Started:	-	10/12/2022	Water Depth Elevation	Cave-In	Depth Elevation
Terminatio	on Dep	th:	feet	t bgs			Date Complete	ed:	10/12/2022	(feet bgs) (feet)	(fe	et bgs) (feet)
Proposed	Locati	on:	Athletic Field				Logged By:	MO		During: NE 🐺		
Drill / Test	Metho	od:	HSA / SPT				Contractor:	ECG		At Completion: NE V	At Completion:	<u> ﷺ</u>
							Equipment:	AMS-9	9580	24 Hours:	24 Hours:	I <u></u> 💆
	SA	MPLE				DEPTH						
Depth		T	Diama Dan Oli	Rec.		(STRAT	A		DESCRIPTION OF MATERIAL	S	REMARKS
(feet)	NO	Туре	Blows Per 6"	(in.)	N	(feet) 0.0		1		(Classification)		
						0.5	TOPSOIL	<u>\\\/</u>	6" Topsoil			
		\mathbf{V}			10	-	GLACIAL	14131	Light Brown Silty	Sand with Gravel (rock chips), Moist, Medium	Dense (SM)	
0 - 2	S-1	Å	4 - 6 - 6 - 8	14	12		DEPOSITS					
		/										
		$\sqrt{7}$.	1					
2 - 4	S-2	ΙXΙ	6 - 3 - 5 - 10	16	8	_	4		As Above (SM)			
		$ / \rangle$				4.0	4		. ,			
		\ominus	E0/0"		E0/0"	4.0		14344	Boring Log B-6 T	erminated at a Depth of 4.0 Feet Relow Group	nd Surface Due to	
4 - 4	<u>১-</u> 3	\bigtriangleup	20/0	NK	ວບ/ປ"	5.0 -	4		Refusal	Similated at a Depth of 4.0 1 det Delow Gloui		
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						25.0]					



WHITESTONE

RECORD OF SUBSURFACE EXPLORATION

Project:		White	Plains High School	Impro	ovement	S				WAI Project No.:	GJ2219662.Y00	
Location:		550 N	lorth Street; White F	Plains,	Westch	ester Co	unty, NY			Client:	H2M Architects 8	Engineers
Surface El	levatio	n:	± NS fee	t			Date Started:	_	10/12/2022	Water Depth Elevation	Cave-Ir	Depth Elevation
Terminatio	on Dep	th:	5.3 fee	t bgs			Date Complete	ed:	10/12/2022	(feet bgs) (feet)	(fe	et bgs) (feet)
Proposed	Locati	on:	Athletic Field				Logged By:	мо		During: NE 🔻		
Drill / Test	Metho	od:	HSA / SPT				Contractor:	ECG		At Completion: NE V	At Completion:	🜌
							Equipment:	AMS-9	9580	24 Hours:	24 Hours:	I M
							· ·			·		'¥
	SA	MPL	E INFORMATION	I		DEPTH					_	
Depth				Rec.			STRAT	Ά		DESCRIPTION OF MATERIAL	S	REMARKS
(feet)	No	Туре	Blows Per 6"	(in.)	N	(feet)		1		(Classification)		
						0.0	TORCOIL		C" Tanaail			
		$\backslash /$				0.5		<u> </u>	6 Tupsoli Light Brown Silty 9	Sand with Croval Maint Madium Danas (SM	\	
0 - 2	S-1	X	4 - 6 - 8 - 10	16	14	—	DEPOSITS		Light Brown Sity s)	
		/				-	4					
		(\rightarrow)				-	4					
		$\backslash /$					4					
2 - 4	S-2	Х	8 - 7 - 8 - 23	17	15		4		As Above (SM)			
		/					4					
						1 -	1					
4 - 5.3	S-3	X	29 - 27 - 50/3"	13	77/9"	· ·	1		As Above, Very D	ense (SM)		
		\land				5.3	1	19191	_			
							1		Boring Log B-7 Te Auger Refusal	erminated at a Depth of 5.3 Feet Below Grou	nd Surface Due to	
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						10.0	4					
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Boring No.: B-8

Project:		White	e Plains High School	Impro	vemen	ts				WAI Project No.:	GJ2219662.Y00	
Location:		550 N	North Street; White P	lains,	Westch	nester Cou	unty, NY			Client:	H2M Architects 8	Engineers
Surface El	levatio	n:	± NS feet	t			Date Started:	_	10/12/2022	Water Depth Elevation	Cave-Ir	Depth Elevation
Terminatio	on Dep	th:	15.0 feet	t bgs			Date Complet	ed:	10/12/2022	(feet bgs) (feet)	(fe	et bgs) (feet)
Proposed	Locati	on:	Athletic Field				Logged By:	MO		During: NE 🍸		
Drill / Test	Metho	od:	HSA / SPT				Contractor:	ECG		At Completion: NE 🗸	At Completion:	I <u>⊠</u>
							Equipment:	AMS-9	9580	24 Hours: 🕎	24 Hours:	I 🔟
	S۷	MDI		1			-					
Donth				Ree		DEPTE	STRAT	A		DESCRIPTION OF MATERIAL	S	REMARKS
(feet)	No	Туре	Blows Per 6"	(in.)	N	(feet)				(Classification)		
						0.0						
0 - 2	S-1	X	1 - 2 - 3 - 4	16	5	0.5	GLACIAL DEPOSITS		6" Topsoil Brown Silty Sand,	Moist, Loose (SM)		
2 - 4	S-2	X	8 - 7 - 12 - 16	14	19	4.0			As Above, with Gr	avel, Medium Dense (SM)		
4 - 6	S-3	X	4 - 3 - 5 - 6	13	8	5.0			Dark Brown Claye	y Sand, Moist, Loose (SC)		
6 - 8	S-4	X	2 - 6 - 5 - 4	15	11	8.0			Dark Brown Sand	y Silt, Moist, Stiff (ML)		Qu = 1.0 tsf
8 - 10	S-5	X	6 - 16 - 12 - 14	12	28	10.0			As Above with Gra	avel, Very Still (ML)		Qu = 2.0 tsf
10 - 12	S-6	X	49 - 9 - 6 - 6	14	14				As Above, Stiff (M	L)		Qu = 2.5 tsf
						15.0						
						20.0			Boring Log B-7 Te Auger Refusal	erminated at a Depth of 15.0 Feet Below Gro	und Surface Due to	Auger Refusal @ 15.0 fbgs (Broke the Split Spoon)



APPENDIX B Laboratory Test Results









APPENDIX C Infiltration Test Results

k w	THITEST	fone			INFIL	FRATIO	N TEST
Client:	H2M Archited	cts & Engineers	6	. 1	Test Hole No.:	I-1@B-1	
Project:	White Plains	High School In	nprovements	_	Date:	10/10/2022	
Location:	550 North St	reet			Weather:	Clear	
	White Plains	, Westchester (County, NY	- Surfa	ace Elevation:	NS	
File No.	GJ2219662.\	Y00		Test	Depth (Feet):	8.2	
Field Engir	neer: MO		-	Test Dept	h (Elevation):	NS	
Reading	Т	ime	Water Lev (inc	el Reading hes)	Water	Time Interval	Rate of Flow
No.	Start	Finish	Start	Finish	(Inches)	(Hours)	(Inches/Hour)
PS	10:55	11:55	24.0	8.0	16.0	1.0	
1	11:55	12:55	24.0	16.0	8.0	1.0	8.0
2	12:55	1:55	24.0	18.0	6.0	1.0	6.0
3	1:55	2:55	24.0	18.0	6.0	1.0	6.0
Remarks:						F	ield <i>i</i> = 6.7 in/hr

W	THITEST	fone			INFIL	FRATIO	N TEST
Client:	H2M Archited	cts & Engineers	6	. 1	Fest Hole No.:	I-2@B-2	
Project:	White Plains	High School In	nprovements	_	Date:	10/10/2022	
Location:	550 North Sti	reet		_	Weather:	Clear	
	White Plains. Westchester County. NY			Surfa	ace Elevation:	NS	
File No.	GJ2219662.\	Y00		Test	Depth (Feet):	8.4	
Field Engir	neer: MO		_	Test Dept	h (Elevation):	NS	
Reading	Ti	ime	Water Lev (inc	el Reading hes)	Water	Time Interval	Rate of Flow
No.	Start	Finish	Start	Finish	(Inches)	(Hours)	(Inches/Hour)
PS	12:53	1:53	24.0	19.0	5.0	1.0	
1	1:55	2:55	24.0	20.0	4.0	1.0	4.0
2	2:55	3:55	24.0	20.0	4.0	1.0	4.0
Remarks:						F	field $i = 4.0$ in/hr

k w	THITEST	fone			INFIL	FRATIO	N TEST
Client:	H2M Archited	cts & Engineers	6	. 1	Fest Hole No.:	I-3@B-4	
Project:	White Plains	High School In	nprovements	_	Date:	10/11/2022	
Location:	550 North Sti	reet			Weather:	Clear	
	White Plains,	, Westchester (County, NY	Surfa	ace Elevation:	NS	
File No.	GJ2219662.\	Y00		- Test	Depth (Feet):	8.0	
Field Engir	neer: MO		-	Test Dept	h (Elevation):	NS	
Pooding	Ti	ime	Water Lev (inc	el Reading hes)	Water		Poto of Flow
No.	Start	Finish	Start	Finish	(Inches)	(Hours)	(Inches/Hour)
PS	11:21	12:21	24.0	22.0	2.0	1.0	
1	12:21	1:21	24.0	24.0	0.0	1.0	< 0.2
2	1:21	2:21	24.0	24.0	0.0	1.0	< 0.2
Remarks:						Fie	ld <i>i</i> = < 0.2 in/hr

k w	HITEST	fone			INFIL	FRATIO	N TEST
Client:	H2M Archited	cts & Engineers	5	T	Fest Hole No.:	I-4@B-5	
Project:	White Plains	High School In	nprovements	_	Date:	10/11/2022	
Location:	550 North Str	reet		_	Weather:	Clear	
	White Plains,	Westchester (County, NY	Surfa	ace Elevation:	NS	
File No.	GJ2219662.\	/00		Test	Depth (Feet):	5.0	
Field Engir	neer: MO		-	Test Dept	h (Elevation):	NS	
Reading	Ti	ime	Water Lev (inc	el Reading hes)	Water	Time Interval	Rate of Flow
No.	Start	Finish	Start	Finish	(Inches)	(Hours)	(Inches/Hour)
PS	2:56	3:56	24.0	22.0	2.0	1.0	
1	3:58	4:58	24.0	23.0	1.0	1.0	1.0
Remarks:	:			-	•	F	ield <i>i</i> = 1.0 in/hr

k w	THITEST	fone			INFIL	FRATIO	N TEST
Client:	H2M Archited	cts & Engineers	8	. 1	Fest Hole No.:	I-5@B-6	
Project:	White Plains	High School In	nprovements	_	Date:	10/12/2022	
Location:	550 North Sti	reet		_	Weather:	Clear	
	White Plains, Westchester County, NY			Surfa	ace Elevation:	NS	
File No.	GJ2219662.\	Y00		Test	Depth (Feet):	2.0	'
Field Engir	neer: MO		-	Test Dept	h (Elevation):	NS	•
Reading	Ti	ime	Water Lev (inc	el Reading hes)	Water	Time Interval	Rate of Flow
No.	Start	Finish	Start	Finish	(Inches)	(Hours)	(Inches/Hour)
PS	9:36	10:36	24.0	23.0	1.0	1.0	
1	10:36	11:36	24.0	24.0	0.0	1.0	< 0.2
2	11:36	12:36	24.0	24.0	0.0	1.0	< 0.2
Remarks:						Fie	ld <i>i</i> = < 0.2 in/hr

k w	'HITEST	fone			INFIL	FRATIO	N TEST
Client:	H2M Archited	cts & Engineers	6	. 1	Fest Hole No.:	I-6@B-7	
Project:	White Plains	High School In	nprovements	_	Date:	10/12/2022	
Location:	550 North St	reet		_	Weather:	Clear	
	White Plains,	, Westchester (County, NY	Surfa	ace Elevation:	NS	
File No.	GJ2219662.	Y00		Test	Depth (Feet):	2.5	
Field Engir	neer: MO		-	Test Dept	h (Elevation):	NS	
Reading	Т	ime	Water Lev (inc	el Reading hes)	Water	Time Interval	Rate of Flow
No.	Start	Finish	Start	Finish	(Inches)	(Hours)	(Inches/Hour)
PS	10:01	11:01	24.0	23.0	1.0	1.0	
1	11:01	12:01	24.0	23.0	1.0	1.0	1.0
2	12:01	1:01	24.0	23.0	1.0	1.0	1.0
Remarks:						F	ield <i>i</i> = 1.0 in/hr

k w	HITEST	fone			INFIL	FRATIO	N TEST
Client:	H2M Archited	cts & Engineers	5	T	Fest Hole No.:	I-7@B-8	
Project:	White Plains	High School In	nprovements	_	Date:	10/12/2022	
Location:	550 North Str	reet		_	Weather:	Clear	
	White Plains,	, Westchester (County, NY	Surfa	ace Elevation:	NS	
File No.	GJ2219662.\	/00		Test	Depth (Feet):	7.0	
Field Engir	neer: MO		_	Test Dept	h (Elevation):	NS	
Reading	Ti	ime	Water Lev (inc	el Reading hes)	Water	Time Interval	Rate of Flow
No.	Start	Finish	Start	Finish	(Inches)	(Hours)	(Inches/Hour)
PS	11:49	12:49	24.0	23.8	0.2	1.0	
1	12:49	1:49	24.0	23.8	0.2	1.0	0.2
Remarks:						F	ield <i>i</i> = 0.2 in/hr



APPENDIX D Supplemental Information (USCS, Terms & Symbols)



UNIFIED SOIL CLASSIFICATION SYSTEM

I	MAJOR DIVISIONS		LETTER SYMBOL	TYPICAL DESCRIPTIONS
	GRAVEL AND	CLEAN GRAVELS	GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
	GRAVELLY SOILS	(LITTLE OR NO FINES)	GP	POORLY-GRADED GRAVELS, GRAVEL- SAND MIXTURES, LITTLE OR NO FINES
COARSE GRAINED SOILS	MORE THAN 50% OF COARSE FRACTION	GRAVELS WITH FINES	GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
	RETAINED ON NO. 4 SIEVE	(APPRECIABLE AMOUNT OF FINES)	GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
	SAND AND SANDY	CLEAN SAND (LITTLE OR NO	SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
	SOILS	FINES)	SP	POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
MORE THAN	MORE THAN 50% OF	SANDS WITH	SM	SILTY SANDS, SAND-SILT MIXTURES
50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	COARSE FRACTION <u>PASSING</u> NO. 4 SIEVE	APPRECIABLE AMOUNT OF FINES)	SC	CLAYEY SANDS, SAND-CLAY MIXTURES
FINE	SILTS		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
SOILS	AND CLAYS	LESS THAN 50	CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
			OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
MORE THAN 50% OF	0.11 70		МН	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
<u>SMALLER</u> THAN NO. 200 SIEVE	AND CLAYS	GREATER THAN 50	СН	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
SIZE			ОН	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
F	HIGHLY ORGANIC SOILS		PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

SOIL CLASSIFICATION CHART

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS FOR SAMPLES WITH 5% TO 12% FINES

COMPACTNESS*

Sand and/or Gravel

GRADATION*

% FINER BY WEIGHT

TRACE. 1% TO 10% LITTL SOM AND.

0			10/0	
LE	10%	то	20%	
E	20%	то	35%	
	35%	то	50%	

LOOS MEDIU DENS VERY

Е	0% TO	40%
JM DENSE	. 40% TO	70%
E	. 70% TO	90%
DENSE	90% TO ²	100%

RELATIVE

DENSITY

CONSISTENCY* Clay and/or Silt

RANGE OF SHEARING STRENGTH IN POUNDS PER SQUARE FOOT

VERY SOFT	. LESS THAN 250
SOFT	250 TO 500
MEDIUM	500 TO 1000
STIFF	1000 TO 2000
VERY STIFF	2000 TO 4000
HARD GRE	ATER THAN 4000

* VALUES ARE FROM LABORATORY OR FIELD TEST DATA, WHERE APPLICABLE. WHEN NO TESTING WAS PERFORMED, VALUES ARE ESTIMATED.

L:\Geotechnical Forms and References\Reports\USCSTRMSSYM NJ.docx

Other Office Locations:

CHALFONT, PA	SOUTHBOROUGH, MA	ROCKY HILL, CT	WALL. NJ	PHILADELPHIA, PA	BEDFORD, NH	TAMPA, FL	MIAMI, FL
215.712.2700	508.485.0755	860.726.7889	732.592.2101	215.848.2323	603.514.2230	813.851.0690	786.783.6966

Environmental & Geotechnical Engineers & Consultants



GEOTECHNICAL TERMS AND SYMBOLS

SAMPLE IDENTIFICATION

The Unified Soil Classification System is used to identify the soil unless otherwise noted.

SOIL PROPERTY SYMBOLS

- N: Standard Penetration Value: Blows per ft. of a 140 lb. hammer falling 30" on a 2" O.D. split-spoon.
- Qu: Unconfined compressive strength, TSF.
- Qp: Penetrometer value, unconfined compressive strength, TSF.
- Mc: Moisture content, %.
- LL: Liquid limit, %.
- PI: Plasticity index, %.
- δd: Natural dry density, PCF.
- ▼: Apparent groundwater level at time noted after completion of boring.

DRILLING AND SAMPLING SYMBOLS

- NE: Not Encountered (Groundwater was not encountered).
- SS: Split-Spoon 1 ³/₈" I.D., 2" O.D., except where noted.
- ST: Shelby Tube 3" O.D., except where noted.
- AU: Auger Sample.
- OB: Diamond Bit.
- CB: Carbide Bit
- WS: Washed Sample.

RELATIVE DENSITY AND CONSISTENCY CLASSIFICATION

Term (Non-Cohesive Soils)

Torm (Cohoging Soile)

Very Loose	0-4
Loose	4-10
Medium Dense	10-30
Dense	30-50
Very Dense	Over 50

On (TEE)

Term (Concisive Bons)	$\overline{\mathbf{Qu}(\mathbf{IDI})}$
Very Soft	0 - 0.25
Soft	0.25 - 0.50
Firm (Medium)	0.50 - 1.00
Stiff	1.00 - 2.00
Very Stiff	2.00 - 4.00
Hard	4.00 +

PARTICLE SIZE

Boulders	8 in.+	Coarse Sand	5mm-0.6mm	Silt	0.074mm-0.005mm
Cobbles	8 in3 in.	Medium Sand	0.6mm-0.2mm	Clay	-0.005mm
Gravel	3 in5mm	Fine Sand	0.2mm-0.074mm	-	

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Other Office Locations:

Standard Penetration Resistance

CHALFONT, PA	SOUTHBOROUGH, MA	ROCKY HILL, CT	WALL, NJ	PHILADELPHIA, PA	BEDFORD, NH	TAMPA, FL	MIAMI, FL
215.712.2700	508.485.0755	860.726.7889	732.592.2101	215.848.2323	603.514.2230	813.851.0690	786.783.6966

Environmental & Geotechnical Engineers & Consultants
White Plains High School Improvements Baring No.: B-1 Project: White Plains High School Improvements Wal Project No.: GJ2219662.Y00 Location: 550 North Street; White Plains, Westchester County, NY Client: H2M Architects & Engineers Surface Elevation: ± NS feet Date Started: 10/10/2022 Water Depth Elevation Cave-In Depth Elevation Yroposed Location: Building Date Started: 10/10/2022 Drill / Test Method: HSA / SPT Contractor: ECG Equipment: AMS-9580 24 Hours: Yet Hours:	WHITESTONE Bering No.: B-1 Project: White Plains High School Improvements Building Page 2 of 2 Project: 550 North Street; White Plains, Westchester County, NY Client: H2M Architects & Engineers Surface Elevation: ± NS feet Date Started: 10/10/2022 Water Depth Elevation Cave-In Depth Elevation Surface Elevation: ± NS feet Date Started: 10/10/2022 (feet bgs) (feet) (feet bgs) (feet) Proposed Location: Building Date Completed: 10/10/2022 Utring: 9.0 (P) NS At Completion:	WHITESTONE RECORD OF SUBSURFACE EXPLORATION Boring No.: B-2 Project: White Plains High School Improvements Page 1 of 2 Location: 550 North Street; White Plains, Westchester County, NY Client: H2M Architects & Engineers Surface Elevation: ± NS feet Date Started: 10/10/2022 Water Depth Elevation Cave-In Depth Elevation Termination Depth: 28.4 feet bgs Date Completed: 10/10/2022 Urring: 10.0 (P) NS V Proposed Location: Building Dorntractor: ECG At Completion:	Project: White Plain Location: 550 North S Surface Elevation: ± Termination Depth: Proposed Location: Drill / Test Method:
Depth (feet) No Type Blows Per 6" Rec. (in.) N (feet) STRATA DESCRIPTION OF MATERIALS (Classification) REMARKS 0 - 2 S-1 V - <	Depth (feet) No Type Blows Per 6" Rec. (in.) N (feet) STRATA DESCRIPTION OF MATERIALS (Classification) REMARKS 25 - 25.4 S-9 50/4" - 50/4" - 6LACIAL DEPOSITS Itight Brown Poorly Graded Sand, Wet, Very Dense (SP) Itight Brown Poorly Graded Sand, Wet, Very Dense (SP)	SAMPLE INFORMATION DEPTH STRATA DESCRIPTION OF MATERIALS (Classification) REMARKS Depth (feet) No Type Blows Per 6" Ref. (in.) N (feet) TOPSOIL TOPSOIL Classification) Remarks 0 - 2 S-1 1 - 1 - 1 - 2 15 2 -	Depth (feet) No Type Bit 25 - 25.8 S-9
2 - 4 S-2 X 3 - 9 - 14 - 21 14 23 4.0 4 - 6 S-3 13 - 14 - 10 18 28 5.0 5.0 5.0 6 - 8 S-4 10 - 11 - 11 - 9 18 22 8.0 8.0 As Above, with Gravel, Medium Dense (SM)		2 - 4 S-2 X 3 - 2 - 1 - 3 14 3 - 4 - 6 S-3 6 - 11 - 13 - 16 17 24 5.0 - - 6 - 8 S-4 12 - 13 - 17 - 16 18 30 - <th>28-28.4 \$-10</th>	28-28.4 \$-10
8 - 10 S - 5 9 - 8 - 10 - 11 16 18 10.0 10 - 12 S - 6 5 - 15 - 16 - 21 18 31 10.0 10 10 10 10 10 10		8 - 10 S - 5 11 - 15 - 11 - 13 24 26 10.0 As Above, Very Moist, Medium Dense (SM) 10 - 12 S - 6 8 - 10 - 13 - 18 22 23 1 1 10 - 12 S - 6 8 - 10 - 13 - 18 22 23 1 1 1	
15 - 15.9 S-7 37 - 50/5" 10 50/5" 1 1 50/5" 10 50/5"		15 - 17 S-7 32 - 37 - 43 - 50 24 60 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	
20-21.4 S-8 34 - 35 - 36 - 50/ 4" - 71 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -		20 - 22 S-8 14 - 15 - 21 - 21 16 36	
NOTES: bgs = below ground surface, NA = Not Applicable, NE = Not Encountered, NS = Not Surveyed, P = Perched RECORD OF SUBSURFACE EXPLORATION 19662_Blogs 11/2/2022	NOTES: bgs = below ground surface, NA = Not Applicable, NE = Not Encountered, NS = Not Surveyed, P = Perched RECORD OF SUBSURFACE EXPLORATION 19662_Blogs 11/2/2022	NOTES: bgs = below ground surface, NA = Not Applicable, NE = Not Encountered, NS = Not Surveyed, P = Perched RECORD OF SUBSURFACE EXPLORATION 19662_Blogs 11/2/2022	NOTES: bgs = below ground surface, N4

Date Started:

ate Completed:

STRATA

ogged By:

Contractor:

ect:		White F	lains High Schoo	l Improv	/ements	6				WAI Project No.:	GJ2219662.Y00		Project:		Whit	e Plains High Schoo	l Imprc	vemen	ts	
tion:		550 No	th Street; White	Plains, V	Nestche	ester Cou	unty, NY			Client:	H2M Architects &	Engineers	Location		550	North Street; White	Plains,	Westch	nester Co	unty,
ice El	evatio	n:	± <u>NS</u> fee	et		1	Date Started:	-	10/11/2022	Water Depth Elevation	Cave-Ir	Depth Elevation	Surface E	levatio	on:	± <u>NS</u> fee	ət			Date
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LEGEND

DESCRIPTION RETAINING WALL

SYNTHETIC TURF PLAYING FIELD

POST & NETTING VINYL COATED CHAIN LINK FENCE VINYL COATED CHAIN LINK GATE

LIGHT FIXTURE PULLBOX

<u>SYMBOL</u> 17 \bigcirc 0

SITE PLAN NOTES:

- INSPECT THE SITE PRIOR TO SUBMISSION OF BIDS AND MAKE NO ADDITIONAL CLAIMS REGARDING SITE CONDITIONS THEREAFTER.
- NOTIFY THE OWNER AND H2M (TELEPHONE 631-756-8000) AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF THE WORK. THE SAME NOTICE SHALL BE REQUIRED WHEN RESUMING WORK AFTER ANY STOPPAGE OR DELAY.
- COMPLETE ALL SURVEY AND STAKEOUT AS REQUIRED TO PROPERLY COMPLETE THE WORK.
- PERFORM DAILY CLEANUP OPERATIONS INCLUDING REMOVAL OF DEBRIS AND EXCESS CONSTRUCTION MATERIAL, AND DRIVEWAY/STREET CLEANING TO THE SATISFACTION OF THE OWNER.
- 5. DURING ALL NON-WORKING HOURS, STORE ALL EQUIPMENT AND MATERIALS WITHIN AN AREA DESIGNATED BY THE OWNER AT THE PROJECT SITE.
- 6. ALL CURB DIMENSIONS SHOWN REFER TO THE FACE OF CURB.
- 7. ALL CONSTRUCTION TO CONFORM WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODE REQUIREMENTS.
- 8. COORDINATE CONSTRUCTION ACTIVITIES WITH OWNER TO MINIMIZE INTERRUPTION TO THE OWNER'S OPERATIONS.
- 9. RESTORE SURROUNDING AREAS DAMAGED OR DISTURBED DURING CONSTRUCTION. RESTORE TO NEW CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
- 10. RESTORE ALL DISTURBED GRASS AREAS AND ALL AREAS NOT SPECIFICALLY IDENTIFIED FOR OTHER IMPROVEMENTS WITH 6 INCHES OF TOPSOIL AND HYDROSEED.



architects engineers

2700 Westchester Ave., Suite 415 Purchase, NY 10577 914.358.5623 • www.h2m.com

ONSULTANTS

MARK	DATE	DESCRIPTION
-	07-24-2023	FINAL BID SET
1	08-07-2023	ADDENDUM NO. 1

"ALTER	ATION OF T	HIS DOCUMENT EXCEPT I	BY A LICENSED PROFESS	BIONAL IS ILI	LEGAL"
ESIGNED BY: KAK	DRAWN BY: NR		CHECKED BY: KAK		REVIEWED BY:
PROJECT No.: WPSD 2200	6	DATE: AUGUS	GT 2023	SCALE:	AS SHOWN

White Plains City School District

WHITE PLAINS HIGH SCHOOL **UPGRADES AND TURF FIELD**



550 North Street White Plains, NY 10605

SED No. 66-22-00-01-0-16-029

CONTRACT C **CIVIL AND SITE WORK**

FINAL BID SET

DIMENSIONAL SITE PLAN UPPER FIELD

CS 100.00



OVERALI					5/8" TYPE "X" GYPSUM BOARD FINISH AS SCHEDULED 1 LAYER 2-1/2" FIBERGLASS INSULATION C-H METAL STUDS @ 24" O.C 1" GYPSUM BOARD LINER PANEL FINISH AS SCHEDULED
OVERALL DIMENSIONS	STUD SIZE	FIRE RATING	UL No.	STC Rating	COMMENTS
3 1/8"	2 1/2"	1 HR	U415	-	-
1 Me	etal S erior Pai	Stud S	H2M Ref #MI-135		

1

Η			architects						
	N	+ engineers							
	2700 Westch Purch 914.358.56	ester Av ase, NY 23 • wwv	re., Suite 415 10577 v.h2m.com						
CONSULTANTS:	CONSULTANTS:								
MARK	DATE		DESCRIPTION						
-	07-24-2023		FINAL BID SET						
1	08-07-2023		ADDENDUM NO. 1						
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Existing First Floor Plan

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	9'-0"		
			M engineers
CORRIDOR C127C ±490 S.F	E ELECTRICAL C127P ±46 S.F.		
OFFICE MGR C129P ±137 S.F.			2700 Westchester Ave., Suite 415
SCHED C127E ±130 S.F. C127E ±130 S.F.			914.358.5623 • www.h2m.com
SCHED CONFERENCE			CONSULTANTS:
C129Q ±260 S.F.			
			MARK DATE DESCRIPTION
C127A ±220 S.F. GALLERY WORK LOBBY C127 ±367 S.F. C127K ±360 S.F.	TOILET C127H ±63 S.F.		- 07-24-2023 FINAL BID SET 1 08-07-2023 ADDENDUM NO. 1
C128 -	COMPUTER C126 ±846 S.F.		
	PERIODICALS C127J ±483 S.F.		
	€		
C129A ±231 S.F. Image: Construction of the state of the sta	STORAGE C126A ±28 S.F.		
COMPUTER C127L ±890 S.F.	ADING COMPUTER		
© (127N)	±4,100 S.F.		
QUIET READ C127M ±965 S.F.			
PRINCIPAL	G		"ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL" DESIGNED BY: DRAWN BY: CHECKED BY: REVIEWED BY: CWP DOD/NPO CWP KMM PROJECT No.: DATE: SCALE:
29B ±275 S.F.	TACK		WPSD 2206 AUGUST 2023 AS SHOWN
C127N	±2,180 S.F.		White Plains City School
			District
			WHITE PLAINS HIGH SCHOOL
			UPGRADES AND TURF FIELD
			Plains Public School
		BASE BID ALT. G1 ALT. G2 BLDG F	LIFE LEARNING
			REAL
		BLDG/E	
RCP KEY NOTES: (NOT ALL NOTES USED ON EACH PLAN)	LEGEND	ALT. G3	550 North Street White Plains, NY 10605
1 THE CONTRACTOR SHALL PROVIDE AND INSTALL METAL STUD AND GYPSUM WALL BOARD SOFFIT, REFER TO DETAIL 2 ON SHEET A500.00 FOR ADDITIONAL INFORMATION	NAME ROOM DESIGNATION 2X2 ACOUSTICAL		SED No. 66-22-00-01-0-16-029
2 THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW ACOUSTICAL CEILING SYSTEM AS INDICATED ON THE DRAWINGS. INCLUDING BUT NOT	NO. S.F. TAG	BLDG C EAST	CONTRACT
LIMITED TO CEILING TILES, GRID, RUNNERS, CROSS TEES, FURRING STRIPS, WALL ANGLES TRIM, HANGER WIRE, TIES AND ALL DEVICES USED TO SECURE THE CEILING IN PLACE. COORDINATE WITH 'H' AND 'E'	8'-3" CEILING HEIGHT TAG GYPSUM WALL BOARD SOFFIT (TAPE, PRIME & PAINT)	BASE BID ALT. 62	CONTRACT G GENERAL CONSTRUCTION
DRAWINGS REGARDING PROTECTION, REMOVAL AND INSTALLATION OF CEILING MOUNTED ITEMS.	EXISTING WALL LIGHT. COORDINATE		STATUS
<u>NOTES:</u> CONTRACTOR SHALL COORDINATE WITH 'H' AND 'E' DRAWINGS REGARDING INSTALLATION OF NEW ITEMS THROUGHOUT SPACE.	WITH 'E' DRAWINGS		FINAL BID SET
CONTRACTOR SHALL PATCH AND PREPARE NEW SLAB/FLOORING WORK FOR ALL FLOOR MOUNTED ITEMS.	EXISTING WINDOW TO REMAIN COORDINATE WITH 'E' DRAWINGS		
CONTRACTOR SHALL COORDINATE LAYOUT OF NEW EQUIPMENT AND ACCESSORIES WITH ALL WALL-MOUNTED ITEMS AND FINISHED SURFACES		ALT. G1	FLOOR PLAN FIRST FLOOR
		Kev Plan 🕢	
		SCALE: N.T.S.	A 100.00b

	ELECTRICAL LE	EGENDS				SINGLE LINE DIAGRAM LEGEND	LIST OF DRAWINGS	
SYMBOL	DESCRIPTION	COMMENTS	ABBREVIATION	DESCRIPTION	COMMENTS SYMBOL	DESCRIPTION COMMENTS	E 001 ELECTRICAL LEGENDS, SCHEDULES AND DETAILS	architects
S3 S4	THREE - WAY SWITCH FOUR - WAY SWITCH	46" AFF TO CL UON 46" AFF TO CL UON	AFF AFC	ABOVE FINISHED FLOOR ABOVE FINISHED CEILING		LINE VOLTAGE THERMOSTAT, 120V, 10A.	ED 100ELECTRICAL PARTIAL BASEMENT DEMOLITION PLANED 110ELECTRICAL PARTIAL GROUND FLOOR DEMOLITION PLANS	
Si	ILLUMINATED SWITCH	46" AFF TO CL UON	AFCI	ARC FAULT CIRCUIT INTERRUPTER	100AF	CIRCUIT BREAKER WITH TRIP AND POLES AS NOTED; 100 AMP FRAME, 100 AMP TRIP.	ED 111 ELECTRICAL PARTIAL GROUND FLOOR DEMOLITION PLANS	engineers
S ^A S₀	SINGLE POLE SWITCH; "A" INDICATES SWITCH CONTROL SINGLE POLE DIMMER SWITCH	46" AFF TO CL UON 46" AFF TO CL UON	AFG AHJ	ABOVE FINISHED GRADE AUTHORITY HAVING JURISDICTION	•/ 100AT		ED 120 ELECTRICAL PARTIAL FIRST FLOOR DEMOLITION PLANS ED 121 ELECTRICAL PARTIAL FIRST FLOOR DEMOLITION PLANS	
S3D	THREE - WAY DIMMER SWITCH	46" AFF TO CL UON	AMP, A			TRANSFER SWITCH 'TS1'; SEE TRANSFER SWITCH SCHEDULE.	ED 122 ELECTRICAL PARTIAL FIRST FLOOR DEMOLITION PLANS ED 130 ELECTRICAL PARTIAL SECOND FLOOR DEMOLITION PLANS	
 Sкз	KEYED THREE - WAY SWITCH	46" AFF TO CL UON 46" AFF TO CL UON	ATS	SCHEDULE	ATS1		ES 100 ELECTRICAL SITE PLAN	2700 Westchester Ave., Suite 415 Purchase, NY 10577 914 358 5623 • www b2m com
Sk4	KEYED FOUR - WAY SWITCH	46" AFF TO CL UON	BFC	BELOW FINISHED CEILING		DISTRIBUTION PANEL P1 WITH 30A, 2 POLE M.C.B.; SEE DISTRIBUTION PANEL SCHEDULE.	E 100 ELECTRICAL PARTIAL BASEMENT PLANS E 110 ELECTRICAL PARTIAL GROUND FLOOR PLANS	914.390.9023 - www.nzm.com
Sr	SWITCH AND FILOT LIGHT SWITCH WITH THERMAL OVERLOAD PROTECTION (CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE WITH EQUIPMENT)		CL	CENTERLINE COUNTER TOP	"P1"		E 111 ELECTRICAL PARTIAL GROUND FLOOR PLANS	CONSULTANTS:
Sosivs	OCCUPANCY/VACANCY SENSOR WITH MANUAL OVERRIDE, WALL MOUNT		E.C.	ELECTRICAL CONDUIT		UNFUSED DISCONNECT SWITCH DS1, 100 AMP; SEE DISCONNECT SWITCH SCHEDULE.	E 120 ELECTRICAL PARTIAL FIRST FLOOR PLANS E 121 ELECTRICAL PARTIAL FIRST FLOOR PLANS	
			EM			FUSED DISCONNECT SWITCH 'DSI', FUSED AT 100 AMP SIZE, 100 AMP FUSED, 3 POLES; SEE	E 122 ELECTRICAL PARTIAL FIRST FLOOR PLANS	
	2 #12 AWG + #12 AWG GND IN 3/4" E.C. CONCEALED IN WALL OR CEILING		GFI	GROUND FAULT INDICATOR		DISCONNECT SWITCH SCHEDULE.	E 130 ELECTRICAL PARTIAL SECOND FLOOR PLANS E 140 ELECTRICAL PARTIAL ROOF PLAN BUILDING A	
	3 #12 AWG + #12 AWG GND IN 3/4" E.C. CONCEALED IN OR BELOW SLAB		GND		G	GENERATOR SET 'G'	E 141 ELECTRICAL PARTIAL ROOF PLAN BUILDING B	
	DEDICATED HOME RUN TO PANEL LP1 FOR CIRCUIT NO. 35 ONLY. 2 #12 AWG + #12 AWG GND IN 3/4" E.C. CONCEALED IN		CON-ED			ELECTRIC METER AND METER PAN AS PER PSEG REQUIREMENTS	E 142 ELECTRICAL PARTIAL ROOF PLAN BUILDING C	MARK DATE DESCRIPTION - 07-24-2023 FINAL BID SET
 ⊖	SIMPLEX RECEPTACLE: 120V, 20A. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR	FLUSH	MLO	MAIN LUGS ONLY			E 200 LEGEND, RISER AND NOTES E 201 ELECTRICAL PANEL SCHEDULES	1 08-07-2023 ADDENDUM NO. 1
	DUPLEX RECEPTACLE: 120V, 20A. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR BASEBOARDS	FLUSH	NTS TYP	NOT TO SCALE			E 300 ELECTRICAL DETAILS	
 ⊕	QUAD RECEPTACLE, DOUBLE DUPLEX RECEPTACLE: 120V, 20A. COORDINATE MOUNTING HEIGHT WITH MECHANICAL	FLUSH	UON	UNLESS OTHERWISE NOTED	Стѕ	CURRENT TRANSFORMERS.	E 400 ELECTRICAL FIELD LIGHTING POLE AND FOUNDATION DETAILS	
e ^c	DUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "C" INDICATES CEILING MOUNT.	FLUSH	UC V	UNDER COUNTER VOLT		VOL FAGE TRANSFORMERS.	SITE PLAN LEGEND	
	DUPLEX RECEPTACLE: 120V, 20A; FLOOR MOUNTED.	FLUSH	VAC	VOLTS ALTERNATING CURRENT		UNINTERRUPTIBLE POWER SUPPLY		
			VDC X-FMR	VOLTS DIRECT CURRENT TRANSFORMER		TRANSFORMER 'T2' WITH SIZE PRIMARY AND SECONDARY VOLTAGES AS NOTED	UTILITY POWER/TELEPHONE POLE	
	DUFLEA RECEPTACLE AND DATA JACK: 120V, 20A; FLOUK MOUNTED.		WP	WEATHERPROOF	277/480		G EXISTING NATURAL GAS SERVICE	
	ISOLATED GROUND DUPLEX RECEPTACLE. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR BASEBOARDS	FLUSH					Sever Service	
GFI	DUPLEX RECEPTACLE: 120V, 20A; WITH GROUND FAULT INDICATOR. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR BASEBOARDS	FLUSH			$\begin{pmatrix} b \\ c \end{pmatrix} \underline{100AF}_{100AT}$	RACK OUT CIRCUIT BREAKER		TE OF NEW KOULD
⊖ ^{uc}	DUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "UC" INDICATES UNDER COUNTER	AS PER ENGINEER			¥,			ST WOONG H4
€ ^{CT}	DUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "CT" INDICATES COUNTER TOP.	AS PER ENGINEER			RVRM 10	REDUCED VOLTAGE SOLID STATE RAMPING MODULE, SIZED FOR 10 H.P.	EXISTING ELECTRICAL LINES	
⊖= WP	DUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "WP" INDICATED WEATHER PROOF.	AS PER ENGINEER			RVSS 150	REDUCED VOLTAGE SOLID STATE STARTER, SIZED FOR 150 H.P.	E E NEW ELECTRICAL LINES	092583
	DUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "USB" INDICATES INTEGRAL USB.	FLUSH			VFD	VARIABLE FREQUENCY DRIVE, RATED FOR 25 H.P.		OFESSIONAL
$\begin{array}{c} \begin{array}{c} \Psi_{240}^{40} \\ \end{array}$	SPECIAL PURPOSE OUTLET: 240V, 40A. VERIFY NEMA CONFIGURATION WITH EQUIPMENT MANUFACTURER.	AS PER ENGINEER					OH/E	"ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL"
	SURFACE RACEWAY WITH 2 GROUNDED AND ISOLATED TYPE DUPLEX RECEPTACLES AND 1 DATA OUTLET PER POSITION,	AS PER ENGINEER					— x — x — x — EXISTING FENCE	LK/SAN LK/SAN PROJECT NO.: DATE:
	18" AFF UNLESS OTHERWISE NOTED. MAGNETIC STARTER "S1"; SEE STARTER SCHEDULE					FULL VOLTAGE REVERSING STARTER, NEMA SIZE 5	ELECTRIC PULL BOX	WPSD 2206 AUGUST 2023 AS SHOWN
	DISCONNECTION SWITCH "DS1"; SEE DISCONNECT SWITCH SCHEDULE.					FAST ACTING SOLID STATE FUSES AS PER MANUFACTURER.	HH HANDHOLE	White Plains City School
O _{4X}	NEMA 4X STAINLESS STEEL JUNCTION BOX WITH GASKET COVER.					MULTIPLE BRANCH CIRCUITS AS REQUIRED.		District
0 _s	JUNCTION BOX RECESSED IN WALL WITH BLANK COVER. PROVIDE 3/4" E.C. AND DRAG LINE TO ABOVE FINISHED CEILING. MOUNT 18" AFF, UNLESS OTHERWISE NOTED.					CONTROL CIRCUIT; MIN 2 #12 AWG IN \mathbf{Z}_4 E.C.	Image: Structure Room designation	
0 _M	FOR MONITOR, JUNCTION BOX RECESSED IN WALL WITH BLANK COVER. PROVIDE 3/4" E.C. AND DRAG LINE TO ABOVE FINISHED CEILING.						BUILDING SECTION CUT	and By Ke
	FOR HAND DRYER, JUNCTION BOX RECESSED IN WALL WITH BLANK COVER. PROVIDE 3/4" E.C. AND DRAG LINE TO ABOVE FINISHED CEILING. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.						WALL SECTION CUT	023 - 4:48
	TRANSFORMER "T1"; SEE TRANSFORMER SCHEDULE.							WHITE PLAINS HIGH SCHOOL
P1	ELECTRICAL PANEL "P1", SURFACE MOUNT; SEE PANEL SCHEDULE.							
C	CONDUIT GOING UP.						ELEVATION KEY	D.28am Ple
	CONDUIT GOING DOWN.							ins Public Sch
T A	CABLE TELEVISION. PROVIDE 3/4" E.C. WITH DRAG LINE TO AFC AND EMPTY J. BOX RECESSED IN WALL WITH BLANK COVER.							
	DATA. PROVIDE 3/4" E.C. WITH DRAG LINE TO AFC AND EMPTY J. BOX RECESSED IN WALL WITH BLANK COVER.						DRAWING TITLE	st Modifie
D/T	COMBINED DATA AND TV. PROVIDE 3/4" E.C. WITH DRAG LINE TO AFC AND EMPTY J. BOX RECESSED IN WALL WITH BLANK COVER.						3 1 INTERIOR ELEVATION REFERENCE	T FARNING
▲ S	SECURITY CAMERA. PROVIDE 3/4" E.C. WITH DRAG LINE TO AFC AND EMPTY J. BOX RECESSED IN WALL WITH BLANK COVER.							REAL LIFE LUCING
							# ON DWG #	001 Electri
	FIXTURE SCHEDULE							
DESIGNATION	SYMBOL MANUFACTURER MODEL NUMBER TYPE WATTS COLOR VOLT		ITING	REMARKS MOUNTING HEIGHT DETAIL				Sou North StreetهوWhite Plains, NY 10605هو
F1		2782 RECE	SSED	- CEILING	LIGHT SW			SED No. 66-22-00-01-0-16-029
					-			
F1E	COLUMBIA LIGHTING LCAT22-40LW-G-EDU-ELL14 LED 23 4000K UNV	2782 RECE	SSED EMERGE	NCY BATTERY BACKUP MINUTES OF BACK-UP CEILING				CONTRACT E
						PROVIDE ADDITIONAL WIRES AS NECESSARY		ELECTRICAL CONSTRUCTION
F2		3431 RECE	SSED	- CEILING				
FAE		2424	EMERGE			Typical Dotail of Light Eisturg with		SHEET TITLE [660]
F2E	COLUMBIA LIGHTING LUATZZ-40ML-G-EDU-ELLT4 LED 28 4000K UNV	ی ۲۵۹۵ RECE	WIIH 90 WIIH 90	CAPACITY CEILING		<u>Emergency Battery Backup</u>		ELECTRICAL LEGENDS,
		I	I	I I	-	SCALE:NTS		SCHEDULES, AND DETAILS
								DRAWING No.
								E 001.00

LIGHTING		E SCHEDULI	E									
DESIGNATION	SYMBOL	MANUFACTURER	MODEL NUMBER	TYPE	WATTS	COLOR TEMP	VOLT	LUMENS	MOUNTING	REMARKS	MOUNTING HEIGHT	DETAIL
F1		COLUMBIA LIGHTING	LCAT22-40LWG-G-EDU	LED	23	4000K	UNV	2782	RECESSED	-	CEILING	
F1E		COLUMBIA LIGHTING	LCAT22-40LW-G-EDU-ELL14	LED	23	4000K	UNV	2782	RECESSED	EMERGENCY BATTERY BACKUP WITH 90 MINUTES OF BACK-UP CAPACITY	CEILING	
F2		COLUMBIA LIGHTING	LCAT22-40MLG-G-EDU	LED	28	4000K	UNV	3431	RECESSED	-	CEILING	
F2E		COLUMBIA LIGHTING	LCAT22-40ML-G-EDU-ELL14	LED	28	4000K	UNV	3431	RECESSED	EMERGENCY BATTERY BACKUP WITH 90 MINUTES OF BACK-UP CAPACITY	CEILING	1 E 001





- NEW SCOREBOARD IN ADD/ALTERNATE E6, ONLY ASSOCIATED PULLBOXES WITH NYLON PULL STR

		H 2 archited + enginee	rs;
		2700 Westchester Ave., Suite 415 Purchase, NY 10577 914.358.5623 - www.h2m.com	
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SED LOCATION TURE SPORTS (O(NOTE 8)		White Plains City School District	
MATERIAL COST ASSOCIATED WITH PROVIDING AND INSTALL CONTROL PANEL, ACCESSORIES, CONCRETE BASE AND BID WILL ONLY INCLUDE EMPTY CONDUIT AND ASSOCIATE		550 North Street White Plains, NY 10605	
MATERIAL COST ASSOCIATED WITH PROVIDING AND INSTALL Y. BASE BID WILL ONLY INCLUDE EMPTY CONDUIT AND RING. MATERIAL COST ASSOCIATED WITH NEW SPARE CONDUIT AND			
U 10 IN ADD/ALTERNATE E7, ONLY.		STATUS FINAL BID SET	
	A B 1 1 1 1 1 1 1 1 1 1	SHEET TITLE ELECTRICAL SITE PLAN	
	before you dig www.digsafelynewyork.com	ES 100.00	



GL1. PROVIDE ALL REQUIRED WIRING NECESSARY BETWEEN SWITCHES & CONTROLLERS. WHERE 3 OR 4 WAY SWITCHES ARE USED, PROVIDE ALL REQUIRED WIRING BETWEEN SWITCHES. WIRE SIZE SHALL EQUAL POWER

GL2. FIXTURES SHALL BE CONNECTED TO LINE SIDE OF CIRCUIT.

GL3. PROVIDE AND INSTALL A DEDICATED NEUTRAL FOR EACH CIRCUIT. CONTRACTOR IS NOT PERMITTED TO USE

GL4. PROVIDE BOX AND ACCESSORIES AS PER MANUFACTURER'S RECOMMENDATION FOR ALL SWITCHES.

GL5. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT/ENGINEER IN FIELD.

GL6. ALL CEILING MOUNTED FIXTURES WITH EMERGENCY DRIVERS AND ALL FIXTURES THAT ARE PART OF AN EMERGENCY LIGHTING SYSTEM, FED FROM AN EMERGENCY BATTERY BACKUP SHALL BE LABELED. THESE LABELS SHALL BE EASILY READ FROM THE FLOOR LEVEL AND STATE THAT THE FIXTURE IS AN EMERGENCY FIXTURE AND CONTAIN THE PANEL NAME AND CIRCUIT NUMBER THAT IT IS FEED FROM.

GL7. WIRING FOR EMERGENCY DRIVER IS NOT SHOWN ON PLANS. FIXTURES WITH EMERGENCY DRIVERS SHALL BE PROVIDED WITH AN UNSWITCHED POWER FEED FROM CIRCUIT FEEDING LIGHT FIXTURE.

L1. CONTRACTOR SHALL PROVIDE AND EXTEND WIRE AND CONDUIT FROM THE EXISTING LIGHTING CIRCUIT SERVING THIS ROOM TO TERMINATE AT NEW LIGHT FIXTURE AND SWITCH. WIRE AND CONDUIT SHALL BE 2 #12

L2. CONTRACTOR SHALL PROVIDE AND INSTALL AN UNSWITCHED POWER FEED FROM THE LINE SIDE OF THE LIGHT SWITCH SERVING THE LIGHT FIXTURES IN THE ROOM WHERE THE NEW EMERGENCY LIGHT FIXTURE IS SCHEDULED TO BE INSTALLED. UNSWITCHED FEED SHALL ORIGINATE FROM THE SAME CIRCUIT FEEDING LIGHT FIXTURES IN THE ROOM WHERE THE EMERGENCY LIGHT FIXTURE IS SCHEDULED TO BE INSTALLED. PROVIDE AND INSTALL WIRE AND CONDUIT AS REQUIRED. CONTRACTOR SHALL PATCH, REPAIR, RESTORE, PRIME, PAINT AND REFINISH TO MATCH ORIGINAL APPEARANCE OF ALL WALLS, CEILINGS, AND ALL BUILDING FINISHES THAT ARE DISTURBED DURING INSTALLATION OF THE UNSWITCHED POWER FEED. WIRE AND CONDUIT SHALL BE 2 #12 AWG + #12 AWG GND IN 3/4" E.C.

L3. LIGHT FIXTURE WITH SUBSCRIPT "NL" SHALL BE NIGHT LIGHT. LIGHT FIXTURES SHALL BE ON 24 HOURS AND EMERGENCY BATTERY BACKUP. FIXTURE SHALL NOT BE CONTROLLED BY SWITCH. PROVIDE AN UNSWITCHED POWER FEED FROM CIRCUIT SERVING LIGHT IN THIS AREA. TERMINATE UNSWITCHED POWER FEED TO EMERGENCY DRIVE/BATTERY AND NORMAL UTILITY DRIVER.

A1. CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIAL COST ASSOCIATED WITH WORK SHOWN ON THIS

A2. CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIAL COST ASSOCIATED WITH PROVIDING AND INSTALL THE FIELD SPORTS LIGHTING AND ASSOCIATED CONTROL PANEL, ACCESSORIES, CONCRETE BASE AND HARDWARE IN ADD/ALTERNATE E5, ONLY. BASE BID WILL ONLY INCLUDE EMPTY CONDUIT AND ASSOCIATE

1. CONTRACTOR SHALL TERMINATE SPARE CONDUITS TO NEW NEMA 1 JUNCTION BOX FOR FUTURE SPORTS LIGHTING ON FIELD 10. PROVIDE AND INSTALL A LABEL ON THE JUNCTION BOX STATING "FUTURE USE FOR SPORTS LIGHTING ON FIELD 10". JUNCTION BOX SHALL BE SIZED IN ACCORDANCE WITH NEC REQUIREMENTS.



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CONSULTANTS:				
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White Plains City School District

AUGUST 2023

AS SHOWN

WPSD 2206

WHITE PLAINS HIGH SCHOOL **UPGRADES AND TURF FIELD**



550 North Street White Plains, NY 10605

SED No. 66-22-00-01-0-16-029

CONTRACT E **ELECTRICAL CONSTRUCTION**

FINAL BID SET

SHEET TITLE

ELECTRICAL PARTIAL BASEMENT PLANS

E 100.00



1 Electrical First Floor Plan (Building C)

ELECTRICAL GENERAL LIGHTING NOTES:

GL1. PROVIDE ALL REQUIRED WIRING NECESSARY BETWEEN SWITCHES & CONTROLLERS. WHERE 3 OR 4 WAY SWITCHES ARE USED, PROVIDE ALL REQUIRED WIRING BETWEEN SWITCHES. WIRE SIZE SHALL EQUAL POWER

GL2. FIXTURES SHALL BE CONNECTED TO LINE SIDE OF CIRCUIT.

GL3. PROVIDE AND INSTALL A DEDICATED NEUTRAL FOR EACH CIRCUIT. CONTRACTOR IS NOT PERMITTED TO USE COMMON NEUTRALS.

GL4. PROVIDE BOX AND ACCESSORIES AS PER MANUFACTURER'S RECOMMENDATION FOR ALL SWITCHES.

GL5. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT/ENGINEER IN FIELD.

GL6. ALL CEILING MOUNTED FIXTURES WITH EMERGENCY DRIVERS AND ALL FIXTURES THAT ARE PART OF AN EMERGENCY LIGHTING SYSTEM, FED FROM AN EMERGENCY BATTERY BACKUP SHALL BE LABELED. THESE LABELS SHALL BE EASILY READ FROM THE FLOOR LEVEL AND STATE THAT THE FIXTURE IS AN EMERGENCY FIXTURE AND CONTAIN THE PANEL NAME AND CIRCUIT NUMBER THAT IT IS FEED FROM.

GL7. WIRING FOR EMERGENCY DRIVER IS NOT SHOWN ON PLANS. FIXTURES WITH EMERGENCY DRIVERS SHALL BE PROVIDED WITH AN UNSWITCHED POWER FEED FROM CIRCUIT FEEDING LIGHT FIXTURE.

ELECTRICAL LIGHTING KEY NOTES:

L1. CONTRACTOR SHALL PROVIDE AND EXTEND WIRE AND CONDUIT FROM THE EXISTING LIGHTING CIRCUIT SERVING THIS ROOM TO TERMINATE AT NEW LIGHT FIXTURE AND SWITCH. WIRE AND CONDUIT SHALL BE 2 #12 AWG + #12 AWG GND IN 3/4" E.C.

CONTRACTOR SHALL PROVIDE AND INSTALL AN UNSWITCHED POWER FEED FROM THE LINE SIDE OF THE LIGHT SWITCH SERVING THE LIGHT FIXTURES IN THE ROOM WHERE THE NEW EMERGENCY LIGHT FIXTURE IS SCHEDULED TO BE INSTALLED. UNSWITCHED FEED SHALL ORIGINATE FROM THE SAME CIRCUIT FEEDING LIGHT FIXTURES IN THE ROOM WHERE THE EMERGENCY LIGHT FIXTURE IS SCHEDULED TO BE INSTALLED. PROVIDE AND INSTALL WIRE AND CONDUIT AS REQUIRED. CONTRACTOR SHALL PATCH, REPAIR, RESTORE, PRIME, PAINT AND REFINISH TO MATCH ORIGINAL APPEARANCE OF ALL WALLS, CEILINGS, AND ALL BUILDING FINISHES THAT ARE DISTURBED DURING INSTALLATION OF THE UNSWITCHED POWER FEED. WIRE AND CONDUIT SHALL BE 2 #12 AWG + #12 AWG GND IN 3/4" E.C.

LIGHT FIXTURE WITH SUBSCRIPT "NL" SHALL BE NIGHT LIGHT. LIGHT FIXTURES SHALL BE ON 24 HOURS AND EMERGENCY BATTERY BACKUP. FIXTURE SHALL NOT BE CONTROLLED BY SWITCH. PROVIDE AN UNSWITCHED POWER FEED FROM CIRCUIT SERVING LIGHT IN THIS AREA. TERMINATE UNSWITCHED POWER FEED TO EMERGENCY DRIVE/BATTERY AND NORMAL UTILITY DRIVER.

ELECTRICAL KEY NOTE

CONTRACTOR SHALL PROVIDE AND INSTALL A NEW TIME CLOCK "TC" (TORK MODEL DG100A OR APPROVED EQUAL) FOR EACH NEW EXHAUST FAN 'EF-13', 'EF-14', 'EF-15', AND 'EF-16'. PROVIDE AND INSTALL A PHENOLIC NAMEPLATE STATING "TIME CLOCK FOR ROOF EXHAUST FAN "EF-X" ('X' SHALL BE REPLACED WITH EXHAUST DAN NUMBER DESIGNATION ASSOCIATED WITH THE NEW TIME CLOCK) . COORDINATE SCHEDULING WITH SCHOOL DISTRICT AND PROGRAM AS REQUIRED.



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White Plains City School District

WHITE PLAINS HIGH SCHOOL **UPGRADES AND TURF FIELD**



550 North Street White Plains, NY 10605

SED No. 66-22-00-01-0-16-029

CONTRACT E **ELECTRICAL CONSTRUCTION**

FINAL BID SET

SHEET TITL

ELECTRICAL PARTIAL FIRST FLOOR PLANS







-2 #10 AWG + #10 AWG GND IN 3/4" E.C.

EF-5 (BY CONTRACT 'H')

-----EF-6 (BY CONTRACT 'H')

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-EF-9 (BY CONTRACT 'H')

-2 #10 AWG + #10 AWG GND IN 3/4" E.C.

EF-12 (BY CONTRACT 'H')

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	E 142.00







ALL WIRING TO BE INSTALLED ACCORDING TO THE LATEST REVISION OF THE NATIONAL ELECTRIC CODE AND N.F.P.A 72 AS REQUIRED BY LOCAL ORDINANCE.

2. ALL CONDUCTORS MUST BE TEST FREE OF OPENS, SHORTS AND GROUNDS.

GROUNDING MUST COMPLY WITH THE NATIONAL ELECTRIC CODE. GROUNDING MUST BE No.

4. ALL PANEL TERMINATIONS TO BE SUPERVISED BY A FACTORY AUTHORIZED TECHNICIAN PRIOR TO POWERING EQUIPMENT.

5. FOR COMPONENT WIRING AND INSTALLATION INFORMATION REFER TO MANUFACTURERS

REFER TO CONTRACT DRAWINGS FOR APPROXIMATE DEVICE LOCATIONS. DRAWINGS REPRESENT DEVICE QUANTITIES. SHOP DRAWINGS SHALL BE SUBMITTED SHOWING SCALED LOCATIONS. CONTRACTOR TO SUBMIT PLANS STAMPED BY LICENSED NEW YORK PROFESSIONAL ENGINEER ONLY. SHOP DRAWINGS WITHOUT P.E STAMP WILL BE

7. CONTRACTOR RESPONSIBLE TO PATCH & PAINT ALL OPENINGS AS A RESULT OF REMOVAL

INSTALL DETECTORS A MINIMUM OF 3'-0" FROM ANY SUPPLY OR RETURN AIR REGISTERS. COORDINATE EXACT LOCATIONS OF SUPPLY/RETURNS REGISTERS WITH MECHANICAL

9. WHEN INSTALLING SHIELDED CABLE THE FOLLOWING MUST BE OBSERVED:

A. METALLIC CONTINUITY MUST BE MAINTAINED THROUGHOUT THE CABLE RUN.

B. THE CABLE SHIELD MUST BE ISOLATED FROM GROUND AND TERMINATED ONLY IN THE ASSOCIATED CONTROL PANEL AT THE TERMINAL INDICATED ON THE CONTROL PANEL DRAWINGS. THE REMOTE END OF THE SHIELD (AT LAST DEVICE) MUST BE TAPED AND ISOLATED FROM GROUND.

10. AFTER ALARM INDICATION, ALL FANS SHALL BE MANUALLY RESET INDEPENDENT FROM F.A.C.P. SYSTEM RESET. PROVIDE ALL REQUIRED HARDWARE ACCESSORIES, MOTOR STARTERS, CONTROLS, POWER AND CONTROL WIRING AND CONDUITS TO PROVIDE INDEPENDENT RESET OF ALL FANS AFTER ALARM INDICATION.

11. INSTALL ALL DEVICES IN ACCORDANCE WITH A.D.A REQUIREMENTS. ALL DEVICES SHALL BE

A. MANUAL PULL STATIONS 48" O.C.

B. ALARM INDICATING APPLIANCE 80" A.F.F.

C. VERIFY WITH CONTRACT SPECIFICATIONS FOR ANY DEVIATIONS.

12. ALL EQUIPMENT TO BE RECESSED MOUNTED AND ALL WIRING AND CONDUIT TO BE RUN

13. PROVIDE AND INSTALL ALL NECESSARY CONTROL MODULES, SYNCHRONIZATION MODULES, STARTERS AND MONITOR MODULES AS REQUIRED BY MANUFACTURER.

14. PROVIDE ALL REQUIRED DUCT SMOKE DETECTORS. CONTRACTOR TO INSTALL DUCT SMOKE DETECTORS. CONTRACTOR TO INTERFACE ALL DUCT DETECTORS WITH FACP.

15. FIRE ALARM RISER DIAGRAM IS SCHEMATIC. REFER TO FLOOR PLANS FOR DEVICE TYPES

16. ALL HVAC EQUIPMENT WITH A CFM RATING OF 1000 CFM OR GREATER SHALL BE INTERCONNECTED TO THE FIRE ALARM SYSTEM AND SHUT DOWN UPON FIRE ALARM SYSTEM ALARM ACTIVATION. CONTRACTOR SHALL ALSO PROVIDE AND INSTALL NEW SUPPLY AND RETURN DUCT SMOKE DETECTORS WITH REMOTE LED'S FOR ALL HVAC UNITS WITH A CFM RATING OF 2000 CFM OR GREATER. CONTRACTOR SHALL PROVIDE IN BASE BID PRICE A COST FOR INTERCONNECTING TWO (2) ADDITIONAL HVAC UNITS TO SHUTDOWN UPON ALARM ACTIVATION AND ALL COSTS FOR PROVIDING AND INSTALLING TWO (2) DUCT SMOKE DETECTORS WITH REMOTE LEDS INCLUDING ALL ASSOCIATED CONTROL MODULES AND WIRING/CONDUIT. CONTRACTOR SHALL INTERFACE WITH ALL EXISTING STARTERS AND PROVIDE NEW STARTERS WHERE REQUIRED.

ACTUATE COMMON ALAF	ACTUATE VISUAL ALARN	ACTUATE COMMON SUPE	ACTUATE COMMON TROU	ACTUATE ZONE INDICATI	ACTUATE FULL BUILDING	DISPLAY CHANGE OF ST/	TRANSMIT FIRE ALARM S	TRANSMIT SUPERVISION	
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CONTROL UNIT

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SINGLE LINE DIAGRAM AND SITE PLAN FEEDER SCHEDULE

FEEDER	CONDUTOR AND CONDUITS FEEDER SCHEDULE
A	3 #6 AWG + #6 AWG GND IN 1" E.C. (FROM PANEL "PP-11" TO FOR CONTACTOR C1 IN CONTROL PANEL)
B	3 #4 AWG + #4 AWG GND IN 1-1/4" E.C. (FROM PANEL "PP-11" TO FOR CONTACTOR C2 IN CONTROL PANEL)
C	3 #3 AWG + #3 AWG GND IN 1-1/2" E.C. (FROM PANEL "PP-11" TO FOR CONTACTOR C3 IN CONTROL PANEL)
D	3 #2 AWG + #2 AWG GND IN 1-1/2" E.C. (FROM PANEL "PP-11" TO FOR CONTACTOR C4 IN CONTROL PANEL)
(A1)	3 #6 AWG + #6 AWG GND IN 1" E.C.
B1	3 #4 AWG + #4 AWG GND IN 1-1/4" E.C.
<u>C1</u>	3 #3 AWG + #3 AWG GND IN 1-1/2" E.C.
D1	3 #2 AWG + #2 AWG GND IN 1-1/2" E.C.
E	3 #2 AWG + #2 AWG GND IN 1-1/2" E.C.
F	3 #1/0 AWG + #1/0 AWG GND IN 2" E.C.
G	2" SPARE E.C. WITH NYLON PULL STRING

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White Plains City School District

WHITE PLAINS HIGH SCHOOL **UPGRADES AND TURF FIELD**

550 North Street White Plains, NY 10605

SED No. 66-22-00-01-0-16-029

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CONTRACT E **ELECTRICAL CONSTRUCTION**

FINAL BID SET

ELECTRICAL FIELD LIGHTING SINGLE LINE DIAGRAMS, FIRE ALARM LEGEND, RISER AND NOTES

E 200.00

NOTIFICATIONSUPPLEMENTARY

Panel Wir	ing Schedu	ne (3-Ph	iase)													Pa Pa
Panelboard Manufacturer	PP-1	1 (EXISTIN EATON	<u>G)</u>	Voltage Mains	22	277/48 5A MC	80 B	Ph Ma	nase ains Ra	<u>3</u> ating	Wire	4	_ AIC Ra	ting	EXISTING	Pan Man
Panel Type NEMA Type Er	Iclosure	PRL2A	1	Mountii	ng	SURF/	ACE	Op	otions		-	Not	e	-		Pan NEM
LOAD DESCRIPTION	BREAKER OPTION	TRIP AMPS & POLES	CON	NECTED LO VOLT AMPERES	DAD	CIRC. NO.	A E	3 C	CIRC. NO.	co	NNECTED L VOLT AMPERES	.OAD	TRIP AMPS & POLES	BREAKER OPTION	LOAD DESCRIPTION	LOAD DESCRIP
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EXISTING		100A/3P			//////////////////////////////////////	- 7 - 9 - 11			8				20A/3P		SPARE	EXISTING SPA EXISTING SPA EXISTING SPA
LIGHT FIXTURE "F5"		30A/3P	4792	4792	4792	13			- 14 - 16 - 18				20A/3P		SPARE	EXISTING EXISTING EXISTING
LIGHT FIXTURE "F6"		30A/3P	4792	4792	4792	19 21 23			20	/////			20A/3P		SPARE	EXISTING EXISTING EXISTING
LIGHT FIXTURE "F7"		30A/3P	4792	4792	4792	25			26	/////			20A/3P		SPARE	EXISTING EXISTING EXISTING
LIGHT FIXTURE "F8"		30A/3P	4792	4792	4132	25 31 33 25			30 32 34	 - 			20A/3P		SPARE	EXISTING EXISTING EF-1,3
GHTING CONTROL PANEL NEW SCOREBOARDS		20A/1P 15A/1P	3600	1440		35 37 39			36 38 40				20A/1P 20A/1P		SPARE SPARE	EF-2 EXISTING SPA
SPARE		20A/1P	<u>V////X</u>		-	41		1	1 42 (/////	<u> </u>	<u>Breake</u>	20A/1P er Options:	Presker	SPARE	EXISTING SPA
			Connected To	otals:	ØA_ ØB_	EXIS	STING STING	<u> </u>				LO - H ST - SI	andle lock- hunt Trip Ty	off device pe		
(All Phases to	be balanced to v	vithin 7% u	sing Actual Lo	ad Totals.)	ØC _ Total	EXIS	STING	<u> </u>	_	EXISTIN	<u>G</u> Amperes	AUX -	Auxiliary Co andle Padlo	ontacts ock Attachment	ntor	(All
												GFCI - HACR SF - SI	Ground Fa - Heating, A ubfeed	/C & Refrigeratio	pter n	
												TC - Ti	me Clock C	ontrol		
Panel Wir	ing Schedu	ıle (3-Ph	nase)													Pa
Panelboard	PP-1	0 (EXISTIN	G)	Voltage		277/48	80	Ph	ase	3	Wire	4	_ AIC Ra	ting	EXISTING	Pan
Manufacturer Panel Type		EATON PRL1A		Mains Mountii	ng	MLO SURF/	ACE	Ma Op	ains Ra otions	ating	100A _	Not	e	-		Man Pan
NEMA Type Er	closure		<u> </u>													NEN
LOAD DESCRIPTION	BREAKER OPTION	TRIP AMPS & POLES	ØA	NECTED LO VOLT AMPERES Ø B	Ø C	CIRC. NO.		B Ç	CIRC. NO.	CO Ø A	NNECTED L VOLT AMPERES Ø B	OAD ØC	TRIP AMPS & POLES	BREAKER OPTION	LOAD DESCRIPTION	LOAD DESCRIP
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EXISTING		20A/1P 20A/1P		-		15 17			16 18				20A/1P 20A/1P		SPARE SPARE	EXISTING SPA
SPARE SPARE		20A/1P 20A/1P		-		19 21			20		¥/////		20A/1P 20A/1P		SPARE SPARE	EXISTING EXISTING SPA
SPARE SPACE		20A/1P	<i>\////</i>			23			24	360	¥////		20A/1P		SPARE SCOREBOARD 1	EF-4,6
SPACE		-		·/////		27			28		360	¥////	15A/1P		SCOREBOARD 2	EF-5
SPACE		-	<u>V/////</u>		-	29		T	1 30 [/	/////	<u> </u>	<u>Breake</u>	- er Options:		SPACE	EXISTING
			Connected To	otals:	ØA_	EXIS		<u> </u>				AS - P LO - H	owerlink AS andle lock-	Breaker off device		EXISTING EXISTING SPA
					ØB_ ØC_	EXIS	STING	<u> </u>				ST - SI AUX -	hunt Trip Ty Auxiliary Co	pe ontacts		EXISTING
(All Phases to	be balanced to w	vithin 7% u	sing Actual Loa	ad Totals.)	Total _	EXIS	STING	<u> </u>	_	EXISTIN	<u>G</u> <u>A</u> mperes	PA - H GFCI -	andle Padic Ground Fa	ck Attachment ult Circuit Interru	pter	
												HACR SF - Si	- Heating, A ubfeed	/C & Refrigeratio	n	
												TC - Ti	me Clock C	ontrol]
Panel Wir	ing Schedu	ıle (3-Pł	nase)													(All
Panelboard	LPCE (l	.EFT) (EXIS	TING)	Voltage		120/20)8	Ph	nase	3	Wire	4	_ AIC Ra	ting		
Manufacturer Panel Type		EATON PRL2a		Mains Mountii	150)A MC SURF/	B ACE	Ma Op	ains Ra otions	ating	125A -	Not	e	-		
NEMA Type Er	closure		<u>1</u>			1-1							1			
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ACLES		20A/1P	/////	-		3 —	$\left \right $	4	/////	· ·	V////	20A/1P		EXISTING	CONVENIENCE RECEPTACLES		20A/1P	V/////	-
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architects + engineers

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CONSULTANTS:

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-	07-24-2023	FINAL BID SET
1	08-07-2023	ADDENDUM NO. 1

White Plains City School District

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