

August 10, 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.*

CLARIFICATION TO SPECIFICATIONS:

1. Insert SPECIFICATION SECTION SPECIAL PROVISIONS, attached herewith. Omit SPECIFICATION SECTION 015000 - TEMPORARY FACILITIES AND CONTROLS.
2. Insert SPECIFICATION SECTION CONSTRUCTION SCHEDULE, attached herewith.
3. Remove SPECIFICATION SECTION 004116.11-PB-C and replace with revised SPECIFICATION SECTION 004116.17-PB-C, attached herewith.
4. Remove SPECIFICATION SECTION 004116.11-PB-G and replace with revised SPECIFICATION SECTION 004116.17-PB-G, attached herewith.
5. Remove SPECIFICATION SECTION 004116.11-PB-H and replace with revised SPECIFICATION SECTION 004116.17-PB-H, attached herewith.
6. Remove SPECIFICATION SECTION 004116.11-PB-E and replace with revised SPECIFICATION SECTION 004116.17-PB-E, attached herewith.
7. Remove SPECIFICATION SECTION 321216 ASPHALT PAVING and replace with revised SPECIFICATION SECTION 321216 ASPHALT PAVING, attached herewith.
8. Remove SPECIFICATION SECTION 321823.39 SYNTHETIC TRACK SURFACE and replace with revised SPECIFICATION SECTION 321823.39 SYNTHETIC TRACK SURFACE, attached herewith.
9. Insert SPECIFICATION SECTION 265668 LIGHTING SYSTEM WITH LED LIGHT SOURCE, attached herewith.

CLARIFICATION TO DRAWINGS:

1. REMOVE DRAWING G000.00 GENERAL NOTES, MAPS, DRAWINGS LIST, STAGING PLAN, EXIT PLAN AND LEGENDS AND REPLACE WITH REVISED DRAWING G000.00 GENERAL NOTES, MAPS, DRAWINGS LIST, STAGING PLAN, EXIT PLAN AND LEGENDS, attached herewith.
2. REMOVE DRAWING A100.00B FIRST FLOOR PLAN AND REPLACE WITH REVISED DRAWING A100.00B FIRST FLOOR PLAN, attached herewith.
3. REMOVE DRAWING CD100.00 EXISTING CONDITIONS AND SITE REMOVALS PLAN UPPER FIELD AND REPLACE WITH REVISED DRAWING CD100.00 EXISTING CONDITIONS AND SITE REMOVALS PLAN UPPER FIELD, attached herewith.

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4. REMOVE DRAWING CS100.00 DIMENSIONAL SITE PLAN UPPER FIELD AND REPLACE WITH REVISED DRAWING CS100.00 DIMENSIONAL SITE PLAN UPPER FIELD, attached herewith.
5. REMOVE DRAWING CS101.00 SITE IMPROVEMENTS PLAN RUNNING TRACK ADD ALTERNATE AND REPLACE WITH REVISED DRAWING CS101.00 SITE IMPROVEMENTS PLAN RUNNING TRACK ADD ALTERNATE, attached herewith
6. 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.
7. REMOVE DRAWING C500.00 SITE DETAILS AND REPLACE WITH REVISED DRAWING C500.00 SITE DETAILS, attached herewith.
8. REMOVE DRAWING C501.00 SITE DETAILS AND REPLACE WITH REVISED DRAWING C501.00 SITE DETAILS, attached herewith.
9. REMOVE DRAWING C502.00 SITE DETAILS AND REPLACE WITH REVISED DRAWING C502.00 SITE DETAILS, attached herewith.

REQUEST FOR INFORMATION FROM BRENDAN FORD (Nicky Diggs Excavation)

1. 1/C500 shows 6" base course. 2/C500 shows 4" Base course, 3/C500 shows 4 ½" base course. Please confirm the correct amount of base course.

RFI response: The correct amount of base course is 6" Please sheet revised details on sheet C500.

2. CS 100 says the existing score boards remain; CD 100 says the score boards are to be removed. Please confirm if the score boards are removed or remain.

RFI response: Scoreboards are to be removed, please see attached and revised sheets CS 100 and CD 100.

3. 7/C502 references sheet C6.2 for the underdrain, there is not sheet C6.2.

RFI Response: This detail has been revised to show the correct reference seen on sheet attached and revised C500.

4. Is there a concrete curb for the wood nailer? 2/C500 does not show a concrete curb

RFI Response: There is a concrete curb. Please see detail 2 on sheet C500.

5. What is the limit of asphalt removal for the track?

RFI Response: Please see notes regarding asphalt and trench drain repair on sheet CS101. Please also refer to Allowances C3 & C4.

6. Are the sand pits also being replace? The drawings do not show replacement.

RFI Response: The sand for the sand pits is being replaced. Please see sheet CS101.

7. Can you please provide the following information for the jellyfish unit, what model, how many Hi Flow cartridges there are, how many Drain Down Cartridges and what length the cartridge?

RFI Response: The drainage design has been modified and the Jellyfish Filtration system is no longer a part of the scope. Please see sheet C100.00.

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8. Is there an engineer's estimate for the job?

RFI Response: This is not available.

9. What type of asphalt is to be used under the track?

RFI Response: See revised note on Sheet CS101 and Specification Section 321823.39 SYNTHETIC TRACK SURFACE.

10. Is any of the soil contaminated on the current natural grass field?

RFI Response: There is no known contamination of soil at the current natural grass field.

11. Is the track drawn to scale? The detail shows the lanes 42" on center but using the scale the lanes are 30"

RFI Response: The scale has been revised, please see sheet CS 101.

12. In detail 1/C500 it shows the flat drain in the finish course in detail 2/C500 it shows the flat drains in the base course. Please confirm where the flat drain is supposed to be.

RFI Response: Please see revised details 1 and 2 on sheet C500.

13. After addendum 1 CS 100.00 still calls out a new jellyfish filtration system and there is a detail on C502.00 for a jellyfish filtration system. C 100.00 now does not call out a jellyfish filtration system. Please confirm if the jellyfish filtration system has been eliminated.

RFI Response: The drainage design has been modified and the Jellyfish Filtration system is no longer a part of the scope. See drawings C100.00 and CS 100.00.

14. Addendum 1 added a bioretention, can you please add a detail for the bio retention?

RFI Response: Please see detail 8 on sheet C502.

15. Addendum 1 added a drainage pipe from the cultec recharger to the bio retention, the size of the pipe is missing. The size of the piping is also missing for turf under pipe outfall.

RFI Response: Please see sheet C100 and detail 8 on sheet C502.

REQUEST FOR INFORMATION FROM LEANDRA BRADLEY (Landscape Unlimited, Inc.)

1. For track surfacing please clarify if the 100 system or 1000 system should be used?

RFI response: Specification section 321823.39 SYNTHETIC TRACK SURFACE has been revised to clarify the track surfacing system.

2. There are two (2) representations of this field in the contract documents, and one (1) shows a center field logo and endzone lettering. The other does not. See attached photos. There are not detail pages showing any graphics. Please verify if graphics are required and if so, provide details.

RFI response: These are two different fields. Sheet CD100, CS100, C100 refer to the new synthetic turf practice field which does not have a track surrounding it (referred to by the Owner as Field #12). The field shown on sheet CS101 is an existing synthetic turf field, and the scope of work is limited to the track area, there is no scope for the synthetic turf field here (referred to by the Owner as Field #8).

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REQUEST FOR INFORMATION FROM MARIO IACUONE (Cirone Construction)

1. Can you please provide a detail or description for the High netting that is to be installed in the retaining wall? Will this be cored and grouted as well similar to the chain link fence?

RFI response: Please see detail 6 on sheet C500 and detail 3 on sheet C501 for Netting system and grouted connection details.

2. The thickness of the base stone read 4" on detail 2 C500 and 6" detail on 1 C500, which is it? Also please confirm that flat drain will sit on the filter fabric below the base stone unlike detail 1 on C500.

RFI response: The correct thickness is 6", please see revised details 1 and 2 on sheet C500.

3. Can you please provide the invert and where the header drain will be tying into.

RFI response: Invert elevations have been added, please see sheet C100.

4. Will construction orange fence be sufficient for job separation or is a temp chain link fence required.

RFI response: Temporary fence is required surrounding all areas of work as needed and in accordance with the Special Provisions.

5. Please confirm the electric trenching and scoreboard work is with the electrician.

RFI response: Utility trenching is part of Contract C. Scoreboard installation is part of Contract E.

6. How much topsoil material will be placed at the lower field of the school and how much will be brought to the white plains recycling center?

RFI response: Please see Site Removal Note on sheet CD100.

7. Can you please confirm the specs for the track surfacing, during the meeting it was thought that it may be incorrectly spec'd?

RFI response: Please see revised Specification Section 321823.39 SYNTHETIC TRACK SURFACE.

8. There is no padding listed in the spec for the turf field. Please confirm there will be none required.

RFI response: Padding is not part of the scope.

9. What is the turf nailer sizing and how is it being secured?

RFI response: Please refer to manufacturer's specifications.

10. Scale of page CS 101.00 is wrong. Please advise of the square footage of track and D zones.

RFI response: The scale has been revised. Please see sheet CS101. Track and D-zone areas combined are approximately 69,060 SF.

11. Where is the line of paving ending? Is it right up against the fence or are we staying in a little bit. Need definitive line. If paving to fence line, then fence would need to be stripped down to just the poles to be able to make a clean edge.

RFI response: Please see notes regarding asphalt and trench drain repair on sheet CS101. Please also refer to Allowances C3 & C4.

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12. Is the asphalt walkway below the bleachers getting new asphalt?

RFI response: Please see notes regarding asphalt and trench drain repair on sheet CS101. Please also refer to Allowances C3 & C4.

13. Is the sand pit area getting new asphalt?

RFI response: Please see notes regarding asphalt and trench drain repair on sheet CS101. Please also refer to Allowances C3 & C4.

14. What is the material type to be used on this track? 6F or 7F top?

RFI response: See revised note on Sheet CS101 and Specification Section 321823.39 SYNTHETIC TRACK SURFACE.

REQUEST FOR INFORMATION FROM WILLIAM GAROFALO (The LandTek Group, Inc)

1. On plan C 100 Grading and Drainage Addendum #1 Turf Underdrain to Pipe Outfall to Bioretention – is that the only collector pipe on the top side of the field or does it loop around like in Detail #7 on C502.

RFI response: Please see revised detail 7 on sheet C502.

2. On plan C 100 Grading and Drainage Addendum #1 Please clarify inverts of Manholes.

RFI Response: Inverts have been added to manholes. Please see sheet C100.

3. On plan C 100 Grading and Drainage Addendum #1 New Drainage Manhole as 12" Smooth Pipe coming out that abruptly stops 6' out please clarify.

RFI Response: This pipe has been removed from the scope. Please see sheet C100.

4. On plan C100 Grading and Drainage addendum #1 1,800 SF Bioretention area please provide details.

RFI Response: Please see detail 8 on sheet C502.

5. On plan C 100 Grading and Drainage Addendum #1 what size pipe from the recharger chambers to the Nyloplast Drain Basin?

RFI Response: Please see detail 8 on sheet C502.

6. Side details C 500 Detail 1,2,3 have conflicting Turf Stone profiles please clarify finishing stone and base stone profile.

RFI Response: The respective details have been revised, please see revised attached sheet C500.00.

7. Site Details C 500 Detail 2 Synthetic Turf Edge calls for "wood nailer" and no concrete turf curb, please clarify the size of the wood nailer if no concrete curb is being used?

RFI Response: This detail has been revised to include concrete curb, please see attached sheet C500. Refer to manufacturer installation instructions for wood nailer specifications.

8. Electrical site plan ES 100.00 If Contract "C" is required to trench to run the conduit how long will trenches need to be opened?

RFI Response: Trenching for conduit installation will need to be coordinated with 'E' Contractor.

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9. CS 101. Running Track add alt – for clarification purposes is the limit of milling and paving within the confines of the Track and Dzones? Or do we need to mill and pave the asphalt section between the track and fence and the area where the sand pits are.

RFI Response: Please see notes regarding asphalt and trench drain repair on sheet CS101. Please also refer to Allowances C3 & C4.

10. Who performs the screening of the topsoil the contractor or the owner?

RFI Response: Please see Site Removal Note on sheet CD100.

11. Is topsoil only going to the designated dump site or is all topsoil and fill going to the designated dump site?

RFI Response: Please see Site Removal Note on sheet CD100.

12. Are we going to stockpile excess material, or does it need to be respread at designated dump site?

RFI Response: Please see Site Removal Note on sheet CD100.

13. Is the electrical contractor responsible for installing the new scoreboards on the existing I-beam foundation? Or is the site contractor responsible for this? Alternate 6 in the electrical bid form calls for the electrical contractor to install the scoreboard.

RFI Response: The electrical contractor is responsible for the installation of new scoreboards.

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

1. Specification section 0041161.11 PB-G-1 call out for Item 11- Division 11 - Equipment(Football Field Equipment/Athletic Field Ball Safety System/Soccer Scoreboard) to be part of GC work. Specification section 011100 Summary of work page 3 paragraph 1.06 C.1. calls out work includes (sports equipment). Please clarify if Division 11 is part of work for G Contract or part of C Contract - site work?

RFI response: Athletic Field Equipment is part of Contract 'C', see attached revised Contract 'C' Bidders Proposal Sheet (PB-C).

2. Specification section 011100 Summary of work (page 2, C.4. and page 3, C.2.) is excavation and backfilling part of E Work or part of C Work?

RFI response: Excavation and backfilling is part of Contract 'C'.

3. Drawing SC 100.00 calls out for new scoreboard, is there existing structure for new scoreboard or does scoreboard need new structural support including but not limited to concrete footing and steel support?

RFI response: The scoreboards are being removed and replaced by Contract 'E'. The structural supports are to remain (one support post to be removed) and existing remaining support structure is to be sandblasted, primed and painted by Contract 'C'.

4. Drawing SC 100.00 calls out for new ball safety netting system on top of the wall(retaining wall), drawing C 500.00 detail 6 calls out that ball safety netting system to be installed only on concrete footing, which method is to be used?

RFI response: Please see detail 3 on sheet C501.

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5. Drawing SC 101.00 site plan note 15 calls out for 2" aluminum track curbing, please provide more info for curbing with exact location.

RFI response: Aluminum track curb is to be located at the inside lane line of track. Location of aluminum track curbing is shown in detail 2 on sheet CS101.

6. At the bid walk it was mentioned that the grass is to be removed by others and we require quantity of top soil and debris to be removed?

RFI response: Please see Site Removal Note on sheet CD100.

7. Drawing C 100.00 calls out for a bioretention area, can you please provide a detail for bioretention pond?

RFI response: Please see detail 8 on sheet C502.

8. What is a drainage pipe size from bioretention to Cultech recharger?

RFI response: Please see detail 8 on sheet C502.

9. Are there any changes to RIM. & INV. for 3 manholes?

RFI response: Please see revised rim and invert elevations for the relocated manholes on sheet C100.

10. Drawing C 500.00, detail 2 calls out for a wood nailer, usually a concrete curb is placed with 2" x 4" treated poly nailer attached or what is the size of wood nailer depicted?

RFI response: Please see revised detail 2 on sheet C500.

11. Drawing C 500.00 detail 1 calls out for 6" layer of base course fill and detail 2 calls out for 4" layer of base course fill which one is to be used?

RFI response: The correct thickness is 6", please see revised details 1 and 2 on sheet C500.

12. Where is standard 6' high temporary fence required for site work (Contract C) ?

RFI response: 6' High Temporary fence is required surrounding all areas of work as needed and in accordance with Specification Section Special Provisions, see attached herewith.

13. Rock should be priced by cubic yard when configured as needed in excavation not just trenches. What should be deducted if not found?

RFI response: See attached revised Contract 'C' Bidders Proposal Sheet (PB-C), unit price is by CY of Rock Removal.

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

14. Detail 1 Typical Soffit Detail on A500.00, The "shaft wall" framing and drywall cannot be constructed as shown in the detail. The layers/construction needs to be reversed in front of the transom windows. The framing needs to be installed, the 1" Type X gypsum board is installed within the shaft wall studs, then the 5/8" gypsum board will be face fastened to the studs. There would be no way to build it as shown.

RFI response: The wall construction at the transom window can be reversed from what's shown in Detail 1/A500.00.

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15. Bid forms call for naming MEP's but this is not a single prime project AND it also calls for naming subcontractors and their dollar amounts but the form is only for experience. Please clarify what goes in the subcontractor qualification envelope.

RFI response: Please see revised Bidders Proposal Sheet attached and previously provided Instructions to Bidders for additional information.

End of Addendum No. 2

X:\WPSD (White Plains Central School District) - 10991\WPSD 2206 - (High School Upgrades and Turf Field)\03-Bid\Addenda\Addendum #1\WPSD 2206 Addendum 2.docx

SPECIAL PROVISIONS

These Special Provisions are in addition to the Plans, Specifications and the other Contract Documents and shall be part of this Agreement between the Owner and the Contractor. All references to "This Prime Contractor", "This Contractor" or "Contractor" refers to the **General Construction Prime Contractor, Civil Prime Contractor, Mechanical Prime Contractor** and the **Electrical Prime Contractor**. The following provisions shall apply for each individual project and each Prime Contractor associated with it. In cases of contradictions, the most stringent Provision shall govern.

General Requirements for Each Prime Contractor

I. General

1. All dates, durations, etc. defined herein shall be in business days.
2. Except for the basic building permit, each Prime Contractor's price shall include all fees and other costs for securing and maintaining (by the Prime Contractors or their subcontractors) for the life of the job; all permits, PE licenses, connection fees, inspections, etc., applicable to, or customarily secured for the Work. This provision includes any applications and/or permits to be issued by utility companies in the name of the Prime Contractor, or the Owner, as required for the Work. The originals of all permits are to be issued in the name of the Prime Contractor as required for the Work. Each Prime Contractor shall furnish the Construction Manager with original copies of all permits prior to the commencement of the Work, and shall prominently display a copy of all permits at a location agreed to with the Construction Manager.
3. One week prior to the start of physical work, each Prime Contractor shall provide two copies of a videotaped recording of all existing conditions to the Construction Manager. This taping shall provide a record of all-existing buildings, grounds, exterior conditions and interior conditions. The Contractor shall schedule a representative of both the Owner and the Construction Manager to be present at this taping. In the absence of this record, each Prime Contractor shall be responsible for paying the costs associated with any and all repairs or replacements of existing materials and/or conditions that were damaged in an area where the Prime Contractor is working or has worked, as may be deemed necessary by the Owner or the Construction Manager.
4. Each Prime Contractor is responsible for providing the required mock-ups defined by the Contract Documents out of sequence as needed by the Architect.
5. Each Prime Contractor is responsible for providing all required Engineered material calculations as defined by the contract documents.
6. Each Prime Contractor shall provide drinking water for his own employees.
7. On Site Communications. Each Prime Contractor shall provide, or otherwise see that, the project manager, or site managers, and/or responsible workers of each Prime Contractor and major subcontractor are equipped with cellular phones for the purpose of staying in contact with the Construction Manager.

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8. Each Prime Contractor shall include in his base price the cost of all rigging and equipment required for the performance and installation of the Work.

II. Schedule

1. All Contractors are to recognize that the Project Schedule is of critical importance to the Owner. All aspects of construction must reflect a 'time is of the essence' construction strategy. The attached 'Bid Schedules' serves as a guide of critical milestone dates to the Project. Failure to meet intermediate milestone dates will jeopardize the overall Project Schedule. This failure will mandate Contractor(s) to increase staff, work overtime, or use other means to recover time, at the costs of those Contractor(s) responsible for such delays. In addition, all costs due to delays in completion of the Work, which require additional Custodial Overtime, Construction Management services, Architectural services, and Engineering services beyond the Work duration in the Bid Schedule, shall be borne by Contractor(s) responsible for delays.
2. Each contractor, prior to being awarded the contract shall prepare and submit a Preliminary Master Project Schedule for their Work. **Within (3) weeks of NOA (Notice of Award) all Prime Contractors will provide a coordinated Draft master schedule.** Each Prime's Project Schedule are to reflect all requirements for submittals, material and equipment procurement, material stockpiling, setting up Contractor's staging area and surveying of existing conditions. These Schedules, reflecting the critical milestone dates established by the attached 'Bid Schedule', are to be coordinated and shall be inclusive of other Prime Contractor's activity. The "Final" agreed upon overall schedule of work shall be developed and maintained by the Prime Contractor for General Construction and the Prime Contractor for Civil Construction in conjunction with the Construction Manager utilizing each Prime Contractor's Preliminary and updated Schedule(s). Specific relationships between Contractors, sequencing of activities, phasing, and critical "ties" of coordinated Work must be detailed on the Project Schedule. All Contractors shall utilize "Sure Track Project Manager 3.0-" as produced by Primavera Systems, Inc., -or- equal platform producing Gant Style Scheduling.
3. All Prime Contractors shall review the completed "Final" detailed construction schedule and acknowledge their acceptance of this schedule by signing a copy to be kept on record by the Construction Manager. This agreed upon schedule must incorporate all milestone dates and shall be established within four (4) weeks of Notice of Award.
4. The Prime Contractor for General Construction and the Civil Construction shall update the detailed construction schedule with the Construction Manager and issue copies to the other Prime Contractors, the Owner, Construction Manager, and the Architect monthly. Each Prime Contractor shall provide the Prime Contractor for General Construction with all information necessary to provide these updates.
5. Each Prime Contractor is to submit a schedule of projected fabrication on long lead items (items requiring four weeks and over to fabricate) three weeks after Notice of Award. Progress/Status reports on fabrication to be submitted to the Construction Manager every two weeks. 'Rate of Change' chart and marked up shop drawings to be included in these reports.
6. Each Prime Contractor shall be responsible for coordinating and expediting their fabrication and delivery schedules and keeping the Construction Manager informed as to their progress and their anticipated ability to stay on schedule. Should it become necessary (in the opinion of the Construction

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Manager) to supplement the Prime Contractor's expediting efforts in order to maintain job progress, the Construction Manager may elect to charge all costs incurred to said Prime Contractor.

7. In the event that Owner makes special arrangements to open a building at the request of a Contractor and the Contractor does not show, the Prime Contractor shall pay the Owner all costs incurred. All parties agree that any action taken to enforce this requirement shall not be construed by any Prime Contractor or its subcontractors/suppliers, as a reason for a claim (for either time or money) for delay to the Work or to the Prime Contractor, its subcontractors, or suppliers.
8. The Owner shall take partial occupancy of the building's renovated spaces in accordance with the dates established by the Bid Schedule and the Special Provisions. The Contractors shall perform all Work necessary to maintain the Owner's move-in and occupancy schedule.
9. The Contractors shall include in their base price, all out of sequence Work and any Work required to be performed during overtime hours or non-working hours necessary to maintain the Master Schedule, the Prime Contractors' project schedule, or the Owner's move-in schedule.

III. Submittal Milestone Requirements

Submittal Priorities

The following submittal dates (in business days) are critical to allow for proper fabrication timeframes to ensure timely completion of the project to meet the attached bid schedule. A complete listing of all submittal requirements is located in "Section 01 3300 Submissions", which shall be accompanied by each division's specific submittal requirements.

Major General Construction Submittals

Metal Framing	15 days from Notice of Award
Sheetrock	15 days from Notice of Award
Ceiling Systems	15 days from Notice of Award
Glazing Film	15 days from Notice of Award
Interior Finishes	20 days from Notice of Award
Casework	20 days from Notice of Award
All remaining Submittals with-in	20 days from Notice of Award

Major Civil Construction Submittals

Stormwater Retention	15 days from Notice of Award
Soil Retention/ Masonry Retaining Walls	15 days from Notice of Award
Imported Soil Data	15 days from Notice of Award
Artificial Turf Product Data/ Shop Drawings	20 days from Notice of Award
Running Track Shop Drawings/ Product Data	20 days from Notice of Award
Fencing	20 days from Notice of Award
All remaining Submittals with-in	20 days from Notice of Award

Major HVAC Equipment

Duct Work	15 days from Notice of Award
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Equipment	15 days from Notice of Award
Controls	20 days from Notice of Award
HVAC Shop Drawings	20 days from Notice of Award
All remaining Submittals with-in	20 days from Notice of Award

Major Electrical Equipment

Service Equipment	15 days from Notice of Award
Fire Alarm	15 days from Notice of Award
Light Fixtures	15 days from Notice of Award
Athletic Field Scoreboards	20 days from Notice of Award
Athletic Field Lighting	20 days from Notice of Award
All remaining Submittal with-in	20 days from Notice of Award

IV. Construction Milestones

All Prime Contractors:

Special consideration should be made to the requirements of the project bid schedule attached in the Specifications. Prime Contractors will be required to man each contract to meet the milestone dates indicated below and/or in the contract bid schedule. All costs should be included in the bid for working multiple shifts, nights, weekends, and holidays to complete each phase of the project.

Time frames indicated show milestone dates required to be met by all Prime Contractors. These areas, once completed, will be punch-listed and given partial occupancy for the Owner to occupy. Occupying these areas is critical to the Owner. If said dates are not met Liquidated damages may be assessed and backcharged to the responsible Contractor.

KEY MILESTONE DATES:

CONTRACT: 'C' CIVIL & 'E' ELECTRICAL

NEW SYNTHETIC TURF FIELD, SCOREBOARDS AND LIGHTING (FIELD 12)

- Construction Start: **October 3, 2023** | Substantial Completion: **July 30, 2024**

LOUCKS FIELD TRACK REPLACEMENT

- Construction Start: **June 28, 2023** | Substantial Completion: **July 31, 2024**

CONTRACTS: 'G' GENERAL CONSTRUCTION, 'H' HVAC CONSTRUCTION & 'E' ELECTRICAL CONSTRUCTION

CEILINGS – WINGS 'C' & 'D'

- Construction Start: **October 3, 2023** | Substantial Completion: **January 31, 2024**

CEILINGS – WINGS 'A' & 'B'

- Construction Start: **February 1, 2024** | Substantial Completion: **May 29, 2024**

CEILINGS – WINGS 'G' & 'E'

- Construction Start: **April 30, 2024** | Substantial Completion: **August 28, 2024**

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CLASSROOM DUCT WORK AND SOFFIT INSTALLATIONS – ALL WINGS

- Construction Start: **June 24, 2024** | Substantial Completion: **August 28, 2024**

Any work that is outside of the school's summer recess (6/27/23-8/31/23) must be completed after-hours, at no additional cost to the contract. This includes punch-list work. After-hours are defined within section "VI. SCHOOL OPERATIONS & CONTRACTOR WORK HOURS".

V. Summary Overview

New Turf Field, Lighting and Scoreboards – Field 12

An existing natural grass field will be converted into a new synthetic turf system. The field will require rock removals to install portions of the underground drainage. Lighting for the field will be an alternate and with the 'E' contract. The field is planned to be up and running for the Fall '24 sports season. This work will start in the Fall '23 and continue into the Summer '24, under construction during normal business hours.

Loucks Field Track Replacement

A competitive style track which hosts national competitions. The Loucks Field Track is scheduled to receive a new surface. The track is planned to reopen for the later summer, and work will take place during normal business hours.

WPHS Ceiling Installations

Broken down into three different bid phases, the ceiling replacements will have areas within the C&D wing performed under base bid, and the remainder bid as alternates. All work that will take place over the school year will occur second-shift. While work planned for the Summer '24 will be during normal business hours. Classroom exhaust ductwork and soffit installation will happen over the Summer 2024.

VI. SCHOOL OPERATIONS & CONTRACTOR WORK HOURS

Each project will impact many areas within existing buildings, which in some cases will remain in operation during construction.

All contract work occurring **over the summer recess**, outside of normal school session, may be performed during the hours of 7:00am and 4:00pm, with second-shift work happening continuously until 11:00pm - once approved by the CM & Owner. Any other contract work impacting the operation of the school, at any point over the project schedule, must be performed on an after-hours schedule, weekends or school holidays.

All contract work being performed **before and after the summer recess** during normal school session, will need to be perform second-shift (4:00pm-11:00pm). If approved, the contractor is responsible for abiding by the local sound ordinance for construction activities and will be responsible for any fines they may incur if not followed. All punch-list work shall be performed after school hours on a second-shift schedule.

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Each Prime Contractor may work Saturday & Sundays to make up for lost time (Saturday/Sunday work will be required if necessary to meet deadline) with prior approval from the Owner and after the Contractor has verified allowable working hours by any town ordinance. If any Prime Contractor must work on either a Saturday, Sunday or a Holiday, in order to make up time that has been lost due to their fault, that Contractor will be responsible to reimburse the District for any custodial overtime costs.

VII. SAFETY / LOGISTICS/STORAGE

1. Two weeks after the receipt of the Notice of Award, the Prime Contractor for **General Construction and Civil Construction** shall provide a Site Safety/Logistics Plan to the Construction Manager. The site logistics plan should minimally include locations of the six-foot high temporary fence, traffic plans for deliveries and removals, refuse container locations, crane locations, pick locations, boom radius, and lift locations. This plan shall also show the location of all staging and storage areas, non-rated and fire-rated partitions used to separate construction and school areas, made with plywood and/or gypsum wallboard, etc. The logistical information represented by the construction documents shall serve as a minimal guide.
2. Each prime contractor is to submit their corporate safety policy (2) weeks after Notice of Award. Plan to minimally meet OSHA standards. Each Prime Contractor shall make the participation of their subcontractors in this program mandatory. These Safety Programs should be a detailed Company Policy defining the specifics as to how a safe work environment shall be maintained.
3. Each Prime Contractor and Sub Contractors shall schedule weekly safety meetings (Job Site Safety Talks) and submit meeting minutes indicating attendees and topics to the Construction Manager.
4. Each Prime Contractor is to identify in writing to the Construction Manager their "OSHA Competent Person Regarding Safety" Definition. "Competent person" means one who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them.
5. All flagmen required for deliveries to the site are to be furnished by the Prime Contractor responsible for the delivery. Any and all deliveries crossing the site or student traffic areas shall be escorted by flagmen. All flagmen shall wear orange vests. All deliveries shall be scheduled and coordinated with the Construction Manager and the Owner. Delivery blackout periods for bus traffic interference shall be established with the Construction Manager.
6. Smoking, firearms, alcoholic beverages, and indecent photography are expressly prohibited on all school properties. All persons representing Contractors, subcontractors or suppliers shall wear shirts, long pants and other proper attire while on school property. All persons representing Contractors, subcontractors or suppliers shall conduct themselves in a professional manner consistent with the rules and policies of The School District, and the New York State Education Department while on school property or otherwise representing this project.
7. Each Prime Contractor will ensure that all their employees, while on school property, will wear hard hats, high visibility vests, and ID badges at all times. Anyone on site without this the proper Personal Protection Equipment (PPE) will be escorted off school property.

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8. Each Prime Contractor will ensure that every employee working on this project has completed a 10-hour OSHA training course. Any worker that cannot present a 10-hour OSHA safety-training card will be escorted off the property.
9. Food truck vendors for Construction Workers will only be allowed on school property with prior authorization from the School District. The District may allow or discontinue food vendor truck service at any time for any reason.
10. **Identification Badges.** Each Prime Contractor will provide an ID badge for each of their field personnel prior to coming on school property. All workmen shall display the badge on their person while on site, and at all times. Failure to wear identification badge at all times will result in the immediate removal from the jobsite.
11. **Background checks.** As a part of their existing visitor program, the District uses an electronic school visitor management system (Raptor), which requires visitors to present a valid drivers license or form of state identification. Workers may be required to provide their identification in effort for the District to identify a former sexual offender or any outstanding criminal charges. If a valid form of identification cannot be provided, the person may not be permitted to work on site.
12. Each Prime Contractor is responsible for their own storage and personnel trailers at each site. Each Contractor will be required to supply man trailers and storage box trailers as required. All costs related to its delivery, construction, protection, power, etc. is borne by the individual Contractors utilizing space. The Owner WILL NOT PROVIDE STORAGE SPACE. The placement of these trailers will be strictly limited to predetermined locations. Approval of the placement of any trailer or storage box must be received from the Construction Manager.
13. The parking for construction personnel shall be limited to designated parking areas only. Failure to abide by this rule will result in towing cars at the expense of the Prime Contractor who employs the individual.
14. All delivery vehicles/trucks/machinery/etc. permitted on site, must be equipped with back-up alarms and enter through the designated access points. Failure to demonstrate this ability will result in cancellation of delivery or stoppage of work. All delays associated with this cancellation will be the responsibility of the Prime Contractor responsible for the Work involved.
15. All temporary construction site fences installed by any Contractor shall be installed with a tightly woven, blind screen mesh. This mesh is to be installed on the "construction" side of the fence. The General Contractor will maintain all fencing daily and lock gates at the end of the day.
16. All crane picks, material delivery, etc. must be coordinated so as not to lift over any occupied area of the building. If absolutely necessary, this work shall be done during off hours to ensure the safety of the building occupants. Crane location must be carefully chosen to ensure the safety of building occupants. Crane picks must also not be conducted during academic hours within 20' of an occupied building.
17. The Owner or Construction Manager reserves the right to have all hoisting equipment periodically inspected by an independent inspector whose findings will be binding. The Prime Contractor at its own expense must make corrections before continuing work. The Owner or Construction Manager will not assume any responsibility for the safe operation of any hoisting equipment by exercising this right. Each Prime Contractor or Sub Contractor shall cooperate with the inspector by allowing time for the inspection. The Prime Contractor shall be notified 24 hours prior to the time of the inspection. These inspections do

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not release the Prime Contractor of their responsibility to provide all engineering, permits, and inspections as required by OSHA or the SED prior to use of any hoisting equipment.

18. All vehicular traffic (personal vehicles, trucks, equipment, deliveries, etc.) are to use the designated entrances as outlined on the Logistics Drawings. Access by other routes is to be on a requested exception basis only.

VIII. SUBMITTALS

1. Each copy of each submittal shall have attached as the cover page the specified "Submittal Cover Sheet". All information requested in "Section 01 33 00 Submittal Requirements" shall be provided by the respective Contractor. Submittals will be returned without review if the cover sheet is not accurately completed.
2. Each Prime Contractor shall generate a complete "Submittal Log" within one business week of the Notice of Award. This log is to list all required submittals specific to your trade as detailed in the Project Manual/Specs. See enclosed form for your use. "ROJ" stands for Required on Job to assist your judgment of the time gap between submission, Architect review, fabrication/procurement and on-site need for putting the work item into place.
3. Each Prime Contractor shall review all submissions for completeness. Each Prime Contractor is responsible to stamp all shop drawings prior to submission to the Architect. The Architect will not review any shop drawings unless first reviewed by said Contractor. Bundle similar material submissions for proper review. Use the Architects Submittal cover sheet located in the Specifications.
4. **All submissions shall be sent electronically to the Architect. Submittals will be processed and stored electronically, with access available to all Prime Contractors for coordination. The District has elected to use the program NewForma for all project correspondence.**
5. Each Prime Contractor shall provide one transmittal for each submission package identifying each unique submission individually. For each submittal with the submission package, the Prime Contractor shall identify the length of the delivery time and the necessary "last date" an item may be received on site. Each Prime Contractor shall keep a log of all submissions in a manner prescribed by the Construction Manager and the attached form. Minimally, the Contractor shall update this submittal log biweekly and provide a copy to the Construction Manager for review and information.
6. Each Prime Contractor shall copy the Construction Manager's Project Manager on all transmittals, correspondence, RFI's and any other documents sent to the Architect, his consultants or the Owner.
7. At the direction of the Construction Manager, each Prime Contractor shall provide copies of either document and/or data files for any requested document on one of the following programs: Microsoft Word, Microsoft Excel, or Primavera's SureTrack – Project Manager 2.0 scheduling program.

IX. LINE, LEVELS & GRADE

1. Both the Prime Contractor for General Construction and the Prime Contractor for Civil Construction shall establish a baseline and benchmark system for each area of renovation or component. This survey work

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shall be completed by a NYS licensed professional surveyor. The surveyor(s) employed to establish this system or to extend and maintain an existing benchmark system for the work of other trades shall not have less than five years' experience in performing construction surveys similar to the work they will perform for this project. The other Prime Contractors and their subcontractors shall be responsible for extending these lines, levels and grades, and for performing all layouts for their own work. Each Prime Contractor is solely responsible for any damage or loss due to incorrect extension of lines, level or grades in their layout. Each Prime Contractor and their subcontractors shall be responsible for the accuracy with respect to the layout of their work. Any discrepancies or errors in the drawings, perceived by a Prime Contractor or subcontractor, shall be immediately reported to the Construction Manager and Architect. If any corrections are necessary, they shall be executed in accordance with procedures approved by the Construction Manager.

2. Each Prime Contractor and their subcontractors shall be responsible to offset, or to protect, their markings from anything that may disturb them.
3. Both the Prime Contractor for General Construction and the Prime Contractor for Civil Construction and all other Contracts will build to existing conditions of the site and joining buildings. To confirm line, level and grade, the both the Prime Contractor for General Construction and the Prime Contractor for Civil Construction will employ a licensed NYS surveyor throughout the project to confirm the site is built to the correct elevations. By the end of the project both Prime Contractors shall produce an 'As-Built' drawing including final elevations and boundaries of any structural or earth modifications.

X. MANAGEMENT OF WORK

1. **Each Prime Contractor shall employ (from one week after Notice of Award until punch-list and closeout are complete) at a minimum, a full-time Project Manager and a dedicated full-time on-site Superintendent. The Project Manager and Site Superintendent shall represent the Prime Contractor. All communications given to the Project Manager or Site Superintendent -either verbal or written- shall be binding. Important communications shall be so confirmed in writing.**
2. Each Prime Contractor shall provide copies of their daily construction reports to the Construction Manager's either through the Submittal Program or Electronically via E-mail. These reports shall be submitted no later than 10:00am the following workday. The daily reports shall provide detailed information concerning the Prime Contractors' activities and operation only. Daily Construction Reports to the Construction Manager shall detail manpower for each subcontractor and direct workforce, weather and work activities on site.
3. Each Prime Contractor shall have responsible representation at the **MANDATORY** weekly job meetings held at the Construction Manager's job office from Notice of Award through close out. These meetings will be held to arrange for a satisfactory coordination of all building trades so as not to impede job progress. Prime Contractors or subcontractors who fail to attend the meetings will be **backcharged \$500.00 per each occurrence**.
4. Each Prime Contractor shall submit two-week look ahead schedules identifying the anticipated activity, and material needs for all of the work scheduled to be formed by the Prime Contractor and his subcontractors for the identified time period. Each Prime Contractor shall keep this schedule current and provide a biweekly report to the Construction Manager concerning the actual performance and activity

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compared to the two-week look ahead. The two-week look ahead shall be uploaded to the submittal Program by the End of Business of each weekly meeting.

5. The MEP Coordination shall follow the guidelines stated below:
 - a. Each Prime Contractor shall have sufficient and responsible representatives at MEP coordination meetings held at a location to be determined. These meetings shall be held as frequently as required by the Construction Manager or any other Prime Contractor. The General Construction Prime Contractor and the Civil Prime Contractor shall also include a representative at these meetings.
 - b. All Contractors are expected to jointly produce coordination drawings. Prime Contractors are to first submit their respective shop drawings for approval, to the Owner's Architect and Engineers in order to make any necessary changes prior to going through the coordination process. The HVAC Contractor shall provide orange line CAD Drawings showing all of the approved ductwork. The HVAC Contractor shall locate on these CAD Drawings all piping in orange pencil/ lines. The Plumbing Contractor shall locate the plumbing lines on these CAD Drawings in blue pencil/ lines. The Electrical Contractor shall indicate conduit runs in green pencil/ lines. The General Construction Prime or the Civil Prime Contractor will have the last coordination review. As each coordination drawing is completed, Contractors are to meet with the Construction Manager and the Architect to review and resolve all identified conflicts on the coordination drawings.

Note: for areas without HVAC work, the Mechanical Prime shall provide the necessary CAD Drawings with black line. All coordination meetings will be held at the Construction Manager's office.
 - c. It is the responsibility of the Prime Contractor for General Construction to coordinate all points of entry through the foundations, slab penetrations, sleeves, roof openings and penetrations, wall openings and penetrations etc. with the work of all other Contractors, including but not limited to M. E. P. Primes, kitchen equipment, casework and casework accessories.
 - d. It is the responsibility of each Prime Contractor to coordinate with the architectural details and elements, such as soffits, variations in ceiling height and materials, fire/smoke partitions or barriers, folding partition, doors, lockers, and any other general construction items that impact the space above the ceiling or otherwise requiring light framing and/or miscellaneous support or bracing.
6. Site cleanliness: If any Prime Contractor fails to keep the site safe and clean within four hours of being notified by the Construction Manager either verbally or in writing, the Construction Manager will have this work performed and back charged to the appropriate Prime Contractor at prevailing overtime rates plus 15%. Notice to field personnel is deemed notice to this Prime Contractor.
7. Dust and fume control is essential to the reduction of health risks to the surrounding personnel and the occupants of buildings and adjoining work areas. Methods of dust control shall include but not be limited to the following:
 - a. Adequate ventilation.
 - b. Wetting down.
 - c. Keeping bags of insulating materials, cement, etc. closed.
 - d. Controlled mixing of materials under field conditions.

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- e. Special attention should be utilized in sawing of insulation and certain acoustical materials and storage of materials.
 - f. Job housekeeping must be maintained.
 - g. Advising all personnel of hazardous conditions, including supervisors and workmen.
 - h. Installing temporary barriers.
 - i. Each Prime Contractor shall be responsible for instituting the above policies to insure minimal impact to surrounding occupied areas.
8. Each Prime Contractor shall confine operations on the premises to areas designated by the Construction Manager and permitted by law, ordinances, permits and the Contract Documents, and shall not unreasonably encumber the premises with any materials or equipment. Each Prime Contractor shall coordinate all of his operations with, and secure approval from, the Construction Manager before using any portion of the Premises. Field personnel are to be confined to the work area assigned.
9. Where material is specified to be furnished by others or furnished and delivered only, the Prime Contractor installing the material shall be responsible for scheduling the delivery and receiving, unloading, storing, handling, relocating, hoisting, distribution, laying out and installing this material. Upon receipt of material by the Prime Contractor installing the material, any risk of loss and damage of the material shall be the responsibility of that Prime Contractor accepting the material.
10. All Prime Contractors and their subcontractors shall allow sufficient time to inspect and accept the work of the previous Contractors. Should any discrepancies be discovered, The Construction Manager shall be notified sufficiently in advance so that corrective action can be agreed to and taken (by all necessary parties) without affecting the progress of any Contractor or the work.
11. All Prime Contractors are advised to exert the utmost care and diligence when working in or near any existing buildings or sitework which is to remain. The absence of protection around such items shall not excuse any of the Prime Contractors from their liability to provide protection. Any damage to the existing buildings, sitework or facilities shall be repaired and expensed to the responsible Prime Contractor.
12. Each Prime Contractor shall be solely responsible to remove and replace the existing ceiling tiles and grid in areas of the existing building where their work is required but new ceilings are not scheduled. In the event that the existing ceilings are damaged and cannot be replaced to the satisfaction of the Owner, the responsible Prime Contractor shall be solely responsible for replacing, in kind, the existing ceilings with new tile and grid. A qualified Contractor, acceptable to the Owner, shall perform all ceiling replacements.
13. All disconnect and/or tie-in work involving any utilities that would interfere with the ongoing operations of the Owner shall be completed on an after-hours basis. The performance of this work shall be projected on the required schedules and the Owners Representative is to be notified at least forty-eight hours in advance of commencing with this work. All overtime and standby personnel necessary to complete these tie-ins shall be the responsibility of the Prime Contractor performing the work.
14. At the same time the Prime Contractor submits their Insurance Certificate they shall also submit to the Construction Manager the labor rates of each category of labor for which he or his subcontractors shall employ (either directly or indirectly). This information shall be itemized in the format shown below.

Contractor's Name	
Contractor's Address	
Contractor's Office Phone	

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Contractor's Fax Number					
Contractor's Email Address					
Labor Rate Breakdown					
Worker's Title		Journey man	1.5 Rate	Fore man	1.5 Rate
Base Hourly Rate					
Payroll Tax & Insurance:	% Per Hr				
FICA					
Federal Unemployment					
State					
Workers Compensation					
Disability					
Other (Explanation Required)					
Subtotal					
Benefits:	\$ Per Hr				
Vacation					
Health & Welfare					
Pension					
Annuity					
401K Fund					
Other (Explanation Required)					
Other (Explanation Required)					
Subtotal					
Hourly Labor Rate					

XI. REQUEST FOR INFORMATION (RFIs)

1. Refer to the specifications for a complete explanation of the Request For Information process and copy of the RFI form. RFIs will be corresponded electronically and will be required for an interpretation needed by the Architect of the Drawings and Specifications. Questions asked within the field to the Architect or Engineer for direction, shall be recorded by the prime contractor asking the question and submitted via RFI for formality.

XII. TESTING/INSPECTIONS

1. If the New York School Education Department, the Architect or Owner or determines that any work requires special inspection, testing or approval, the Construction Manager will instruct the Prime

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Contractor of such special inspection, or testing. If such special inspection or testing reveals a failure of the work to comply with the requirements of the Contract Documents, the Prime Contractor responsible shall bear all costs thereof, including compensation for the Architect's, Construction Manager, and Testing Lab costs.

2. Each Prime Contractor shall furnish incidental labor to:
 - a. Provide access to the work to be tested, sampled and inspected.
 - b. Obtain and handle samples at the project site or at the source of the product to be tested.
 - c. Facilitate inspections, samplings and tests.
 - d. Coordinate with the Owners Rep and testing lab and submit schedule of required tests one week in advance.
 - e. Coordinate inspections
3. As they relate to the timely prosecution of the work, all Prime Contractors shall coordinate independent testing and inspections. If any Prime fails to coordinate such inspections and additional costs are incurred to the Owner, the Prime Contractor will be responsible for that inspection cost.
4. **The following is a list of intended controlled inspections:**
 - a. Soil bearing, sub-grade inspection and/or compaction
 - b. Concrete field and plant testing & rebar placement
 - c. Masonry or stone field inspection, mortar sampling, reinforcement placement inspection
 - d. Structural steel field welding, bolting, connections, and metal deck
 - e. Asphalt and sub-base inspection
 - f. Soil compaction, density and sieve analysis testing, soil bearing
 - g. Roofing & flashing – **by Contractor performing the work**
 - h. Waterproofing
 - i. Under slab plumbing work – **by Contractor performing the work**
 - j. Firestopping
 - k. Fireproofing
 - l. Underwriters/UL inspection – **by Contractor performing the work**
 - m. Asbestos air monitoring
5. The Architect and Construction Manager shall be notified forty-eight hours prior to the need of testing, in the event the Contractor does not give proper notification and the work is done with no test, that Contractor will bear all costs for such tests.
6. ***All controlled inspection testing costs will be paid for by the Owner except as noted “by Contractor performing the work” above.***
7. As part of the two-week look ahead, each Prime Contractor shall provide the Construction Manager with a schedule of all anticipated on-site Owner supplied inspections (if any are required). The Prime Contractor shall submit all requests for Owner-supplied inspection for all items of controlled inspection by 1:30 p.m. of the day previous.

XIII. CHANGES TO THE WORK

1. Refer to Article 8 of the General Conditions for additional information pertaining to this subject.

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2. All change proposals for extra work by the Prime Contractors shall be submitted to the Construction Manager, with a complete labor and material breakdown and on the basis of net difference in quantities. The Owner reserves the right to request adequate back-up such as invoices, subcontractor quotes, etc., to substantiate the change order cost. Current labor rates for all trades are to be submitted to the Construction Manager by the respective Prime Contractors at the first scheduled job meeting. When both additions and deductions are involved in any one change, the allowance for overhead and profit shall be figured on the basis of net increase or decrease.

All change requests shall follow the cost breakdown found in § C.1 of Article 8 located in the General Conditions.

XIV. SCHEDULE OF VALUES/PAYMENTS

1. Within one week after Notice of Award, the Prime Contractor shall submit a detailed billing breakdown on the AIA G702/ G703 – CM Version form for approval by Construction Manager and Architect. No payments will be made until such billing breakdown is approved. Each Prime Contractor will be required to breakdown the project cost for each building project, by NYSED #.
2. The schedule of values will be reviewed and adjusted if necessary. Once approved, the schedule of values is to be used for the AIA pay application. The schedule of value will take into account and include at minimum the following items:

- Reference 01 29 00, Section 1.05

Note: Punch list value will be dispersed only when the work has been confirmed to be completed 100%. ALL PAYMENT APPLICATIONS SHALL INCLUDE A 5% RETAINAGE FACTOR.

3. The Owner has elected to require the Prime Contractor to submit releases of liens with respect to all Work previously performed and for which payments were made under a preceding application. Beginning with the second payment requisition and with each subsequent payment requisition, each Prime Contractor shall furnish to Owner the following documents:
 - a. Labor and/or Materials Affidavit
 - b. Daily and Weekly Wage Affidavit
 - c. Prime Contractor's-Partial Release and Wavier of Lien
4. Monthly Payment Applications for Payments shall be made as per Article 9 of the General Conditions of the Contract
5. All Payment Applications for Payment are to include certified payroll for each employee working directly under the Prime Contractor, as well as all subcontractors working under agreements with the Prime Contractor.
6. All Payment Applications for Payment are to include 10-Hour (or higher) OSHA cards for all workers listed on the certified payrolls.

XV. PUNCH LIST

1. Upon substantial completion of each phase of work, each Prime Contractor is to submit to the Owner/Architect/Construction Manager a letter declaring the work is substantial complete. Included with said letter is to be the Contractor's punchlist.

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2. Upon the receipt of the Contractor's Punchlist, the Construction Manager will schedule with the Owner, Architect, and Contractor a walk through to develop an Owner's punchlist. This Owner's punchlist agreed by all parties shall serve as the only punchlist. Upon failure to complete the Owner's punchlist within four weeks from receipt, the Owner reserves the right to complete same work and backcharge the costs of material, labor, supervision and other incidental costs.

XVI. INSURANCE/INDEMNIFICATION

1. All Prime Contractors must issue a Certificate of Insurance with liability limits as defined in the General Conditions and Division 01, naming Triton Construction Company, the Architect, the Architect's Consultants and the School District as an 'Additional Insured' in addition to all other parties as stipulated in the General Conditions of the Contract in the project manual.
2. All Prime Contractors agree to indemnify and hold harmless Triton Construction Company, the Architect, the Architect's Consultants, the School District, its agents and employees in addition to all other parties as stipulated in the General Conditions of the Contract in the project manual.
3. All Prime Contractors and Sub-Contractors/sub-subcontractor's/vendors/etc. insurance/indemnification shall comply with Article 10 "Insurance Requirements" as specified in the General Conditions of the Contract in the project manual.

Specific Scope Requirements for Each Prime Contractor

Each Prime Contractor is to refer to the technical specifications and drawings for further, or more comprehensive requirements.

Prime Contractor for General Construction (PCGC) – For Work within the Building

Contracts: 'G'

1. This Prime Contractor shall provide, for all the building construction work, all necessary site refuse containers and disposal services to maintain the site in a clean and safe condition. This Prime Contractor shall be responsible for emptying and/or replacing all containers on a regular basis or when full. All containers and disposal services shall be provided by a single entity. This Prime Contractor shall provide sufficient labor to keep the site clean on a daily basis and shall be responsible for providing the daily broom cleaning as necessary to maintain site safety.
2. This Prime Contractor shall coordinate with the; Electrician and Mechanical Contractors to allow all Contractors unabated access to the building and surrounding work areas.
3. This Prime Contractor shall provide and maintain temporary chemical toilets for the duration of the project for the interior portions of work. The Civil Prime Contractor will be responsible to provide their own chemical toilets for the Field #12 renovations and track replacement. The quantity of these toilets should be as required to properly maintain sanitary facilities and easy access for the personnel on the job. This quantity shall be a minimum of two toilets per major work area. This requirement shall include all necessary paper products, supplies and services, as well as the maintenance of these toilets until all work

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is complete and the Owner assumes partial occupancy of the completed work areas. As a minimum, this Contractor shall include the pumping and servicing of these toilets twice per week.

4. All Scaffolding or Stair Towers shall be designed and stamped by a licensed NYS PE. When designing this scaffolding consideration should be given to the environment, scaffolding system being used, means of access, means of tying the scaffolding to the structure, location, length of time to be erected, climate conditions, wrapping/containment of building, purpose of use, loadings, etc. all scaffolding and/ or stair tower access points must be secured while not in use. If and when needed, the scaffolding may be used for access by other Prime Contractors during construction- this contractor will not restrict access by others using the scaffold.
5. This Prime Contractor shall provide testing and inspection of the scaffolding on a daily basis and per governing regulation (e.g.: OSHA). A log of these inspections is to be kept in the PCGC's job trailer, along with inspections tags that identify the status of the scaffolding (inspection dates, okay to use, caution, danger). Report to the Construction Manager all corrective work required through the course of the project.
6. This Prime Contractor shall include in his bid price, all costs to provide **6' high** chain link construction fencing and gates. All fencing shall have a tightly woven, blind screen mesh installed on the "construction" side of the fence. Mesh to be dark green or black. When directed by the Construction Manager, this Prime Contractor shall remove and dispose of this fencing and all related materials. Gates for man access shall be passive to the exterior of the jobsite during the event of an emergency but remain closed for unauthorized entry during construction. All gates shall be locked when the site is not active, with a double-keyed system, granting the District access to the site at all times.

Staging locations are not shown on the drawings due to the need for multiple locations that will require coordination with this Prime Contractor. The District will identify which areas to be used for logistics once the contract has been awarded. All areas will be on the outside of the building, either on grass or asphalt.
7. Construction Signage. The PCGC shall include in his base price all construction signage required by OSHA and the Site Logistics plans. At the site fence, "Construction Area keep out", "Hard Hats Required" and "Authorized personal only" signage shall be posted every 10' on site fencing. This Prime Contractor shall reference the logistics plans for each project to include any other signage designated for entry gates. Signs shall be made of either metal or durable PVC to endure the project duration.
8. This Prime Contractor is responsible for protection of finished work and existing conditions. Including but not limited to; floors, walls, and doors. This Prime Contractor will provide, maintain, and remove the appropriate protection materials necessary to adequately protect his finished product.
9. This Prime Contractor shall provide fire extinguishers for the life of the project, the extinguishers are to be hung and identified as per OSHA requirements (1 per 3000 sq ft, or better). These extinguishers are to be re-charged and inspected for the life of the project.
10. Abatement Work: This Prime Contractor will be responsible for hiring a qualified and DOL licensed Abatement Contractor to perform ALL Hazardous Material removal at areas indicated in the drawings. This work will only take place during the summer recess or over an extended break/holiday with the Owner's approval.
11. Openings in Existing Systems: Each respective Prime Contractor will be responsible to provide their own openings through existing wall, floor, and ceiling systems not shown to be removed on the Architectural

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Drawings. Where openings for MEPs are required in new wall, floor or ceiling systems, the GC shall coordinate with the respective MEP Prime contractor to locate those openings and frame the wall/shaft/ceiling system to incorporate the new opening.

12. Core Drilling: Each respective Prime Contractor shall provide their own core drilling through existing and new wall, floor, foundation, or slab systems.
13. Roof Systems: Roof cutting and patching is by the Mechanical Prime Contractor.
14. Each Prime Contractor is required to fire stop and/ or smoke stop all walls, floors and ceilings after completion of all their own work.
15. This Prime Contractor is responsible for the protection of finished work and existing conditions. This Prime Contractor will provide, maintain, and remove the appropriate protection materials necessary to adequately protect the finished product. **Due to the occupancy of the building, these items will be required to be removed and reinstalled on a daily basis.**
 - j) *Floor covering*: On finished floors (existing/new), this Prime Contractor shall install and maintain sufficient protection throughout the duration of the project. On finished walls (existing/new), this Prime Contractor shall protect the newly/existing installed wall finishes with sufficient protection. In either case of the above, the Prime Contractor for General Construction will be responsible for correcting all damages once the work is complete- prior to Substantial Completion.
16. This Prime Contractor will repair, replace, correct, or finish grade, topsoil, and seed all areas within the construction site that was disturbed by the work of this project, including any staging areas for material and equipment.
17. New Mechanical Roof Top Units, Exhaust Fans and Pipe Portals will be furnished and installed by the Mechanical Prime (including roof membrane/insulation cutting and patching), with final Electrical/ Fire-Alarm terminations by the Electrical Prime under separate contracts.

Roof Top Curbs and Pipe Portals will be furnished, lifted/picked, and set/installed by the Mechanical Prime Contractor. Blocking for curbs, final flashing, roof deck penetrations/openings and structural reinforcing shall be by the Mechanical Prime Contractor. Coordination between each trade to install the roof system and new curbs in a seamless matter is required per each Prime's contract. The following sequence clarifies the coordination between the Mechanical (PCMC) and Electrical (PCEC) trades for New Mechanical Exhaust Fan Equipment:

- A. Roof Top Unit Curbs (Exhaust Fans, Etc.):
 1. Furnished, coordinated, lifted/picked and installed (excludes roof flashing and blocking) by Mechanical (PCMC) Prime
 2. Deck/Roof Opening, Structural Reinforcing, Blocking, Insulation and Roof Flashing by Mechanical (PCMC) Prime.
 3. Pipe Portals/ Pitch Pockets Furnished by Mechanical (PCMC) Prime
 4. Pipe Portals/ Pitch Pockets Installed and Flashed by Mechanical (PCMC) Prime.
- B. Mechanical Equipment (Exhaust Fans, Etc.):
 1. Furnished, hoisted/picked and installed by Mechanical (PCMC) Prime.
 2. Piping by Mechanical (PCMC) Prime
 3. Ductwork by Mechanical (PCMC) Prime
 4. Controls by Mechanical (PCMC) Prime

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5. Electrical by Electrical (PCEC) Prime
6. Fire Alarm/ Shutdowns by Electrical (PCEC) Prime

Temporary protection of open curbs prior to units being installed, will be provided and maintained, by the by Mechanical (PCMC) Prime in cooperation of all other trades. Water infiltration as a result of any other Prime Contractor not re-protecting open roof curbs, will be the sole responsibility of that trade to reimburse the PCMC - to correct the temporary protection. Any damage to the interior finishes of the building, caused by water infiltration, will be the responsibility of that Prime Contractor causing the leak, to correct the damages per the terms of the General Conditions.

Prime Contractor for Civil Construction (PCCC) – For Work within the Building

Contracts: 'C'

1. This Prime Contractor shall provide, for all the site construction work, all necessary site refuse containers and disposal services to maintain the site in a clean and safe condition. This Prime Contractor shall be responsible for emptying and/or replacing all containers on a regular basis or when full. All containers and disposal services shall be provided by a single entity. This Prime Contractor shall provide sufficient labor to keep the site clean on a daily basis and shall be responsible for providing the daily brooming of hard surfaces (asphalt/concrete) cleaning as necessary to maintain site safety.
2. This Prime Contractor shall establish a stabilized site entrance from one location of the site, as shown on the drawings. This location must be maintained throughout the duration of the project, and it will be this Prime Contractor's responsibility to sweep and clean the roadway adjoining the entrance when soiled with dirt and debris. Maintenance of both the roadway and entrance shall be daily, and as requested by the CM or Owner. If for any reason the roadway is not maintained to the requirements set forth in the contract documents, the District may hire a street cleaning company to perform the roadway cleaning and back-charge any costs to this Prime Contractor.
3. This Prime Contractor shall coordinate with the; Electrician Contractor to allow all Contractors unabated access to the building and surrounding work areas.
4. This Prime Contractor shall provide and maintain temporary chemical toilets for the duration of the project for the sitework portion of this project, for all Prime Contractors. The quantity of these toilets should be as required to properly maintain sanitary facilities and easy access for the personnel on the job. This quantity shall be a minimum of two toilets per major work area. This requirement shall include all necessary paper products, supplies and services, as well as the maintenance of these toilets until all work is complete and the Owner assumes partial occupancy of the completed work areas. As a minimum, this Contractor shall include the pumping and servicing of these toilets twice per week.
5. All Scaffolding or Stair Towers shall be designed and stamped by a licensed NYS PE. When designing this scaffolding consideration should be given to the environment, scaffolding system being used, means of access, means of tying the scaffolding to the structure, location, length of time to be erected, climate conditions, wrapping/containment of building, purpose of use, loadings, etc. all scaffolding and/ or stair tower access points must be secured while not in use. If and when needed, the scaffolding may be used for access by other Prime Contractors during construction- this contractor will not restrict access by others using the scaffold.
6. This Prime Contractor shall provide testing and inspection of the scaffolding on a daily basis and per governing regulation (e.g.: OSHA). A log of these inspections is to be kept in the PCGC's job trailer, along

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with inspections tags that identify the status of the scaffolding (inspection dates, okay to use, caution, danger). Report to the Construction Manager all corrective work required through the course of the project.

7. This Prime Contractor shall include in his bid price, all costs to provide **6' high** chain link construction fencing and gates. All fencing shall have a tightly woven, blind screen mesh installed on the "construction" side of the fence. Mesh to be dark green or black. When directed by the Construction Manager, this Prime Contractor shall remove and dispose of this fencing and all related materials. Gates for man access shall be passive to the exterior of the jobsite during the event of an emergency but remain closed for unauthorized entry during construction. All gates shall be locked when the site is not active, with a double-keyed system, granting the District access to the site at all times.
8. Construction Signage. This Prime Contractor shall include in his base price all construction signage required by OSHA and the Site Logistics plans. At the site fence, "Construction Area keep out", "Hard Hats Required" and "Authorized personal only" signage shall be posted every 10' on site fencing. This Prime Contractor shall reference the logistics plans for each project to include any other signage designated for entry gates. Signs shall be made of either metal or durable PVC to endure the project duration.
9. This Prime Contractor is responsible for the protection of finished work and existing conditions. Including but not limited to; finished grade, turf, fencing, etc.. This Prime Contractor will provide, maintain, and remove the appropriate protection materials necessary to adequately protect his finished product.
10. This Prime Contractor shall provide fire extinguishers for the life of the project, the extinguishers are to be hung and identified as per OSHA requirements (1 per 3000 sq ft, or better). These extinguishers are to be re-charged and inspected for the life of the project.
11. This Prime Contractor will hire the services of an underground utility surveyor, via Ground Penetrating Radar, to locate and mark all existing underground utilities and services within the Area of Work. The contractor shall then provide the Owner with an As-Built drawing showing the locations of all found utilities. The As-Built drawings shall be performed via Auto-Cad and in color, representing the different utilities found.
12. This Prime Contractor will repair, replace, correct, or finish grade, topsoil, and seed all areas within the construction site that was disturbed by the work of this project, including any staging areas for material and equipment.
13. This Prime Contractor shall hire the services of a NYS Professional Surveyor to provide interval surveying as required in 32 18 23. A survey shall also be performed to establish the line, level and grade elevations. At the completion of the project, a final As-Built Survey for the elevations of the new turf field and surrounding impacted areas will be provided by this Prime Contractor and delivered to the Architect, CM and Owner. The survey shall be included in this Prime Contractor's Closeout documents, via full-size drawings.
14. This Prime Contractor shall include all of the utility trenching for utilities to the new field lighting and both new scoreboards. This Prime contractor shall provide the bedding, backfill, compaction and patching of grass, asphalt or concrete, once the trench is closed. At no point should more trench be opened than what can be backfilled within a 24 hour period. The 24 hour period includes the time for the electrician to install their conduit.

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This Prime Contractor shall include protection around any open trench, by the means of steel plating, barricades and fencing. By no means should any open trench be left unattended without such provisions.

Prime Contractor for Mechanical (PCMC)

Contracts: H

1. The PCGC shall provide dumpsters for this contractor to use for day-to-day rubbish. Each Prime Contractor is responsible for collecting, moving, placing, breaking down boxes and pallets, and disposing rubbish, on a daily basis, all debris from their activities into a dumpster supplied by the PCGC. Each Prime Contractor is responsible to broom clean the areas they worked in at the end of each day. **This Prime Contractor (PCMC) will include in his bid price the provision to remove large HVAC equipment from the site, at his own costs, including but not limited to RTUs, Chillers, Unit Ventilators, and Air Handlers.** All other debris is to be disposed of in the PCGC's dumpsters.
2. **Existing Ceilings:** This Prime Contractor (PCMC) should note there are numerous areas where the existing ceilings are remaining. **This Contractor will be required to remove and reinstall any ceilings displaced by installation of this Contractor's Work, where ceilings are not being removed on the Architectural Plans.** If open ceilings are not replaced within a twenty-four hour period after a request by the Construction Manager, either verbal or written, the Construction Manager will have said ceilings reinstalled and all related costs will be back charged to said Contractor.

Any damage or dirt from the removal and reinstallation of ceiling systems, caused by this Prime Contractor will the responsibility of this contractor to replace in kind, or better.
3. This Prime Contractor shall coordinate with the Electrician and General Construction Prime Contractor to allow all Contractors unabated access to the building.
4. **Access to Work within Existing Walls, Ceiling & Floors:** Unless otherwise noted in the construction documents, this Prime Contractor will cut and cap their own work inside finished walls, floors and ceilings. Access for removals, installation and capping within existing chase walls, walls, soffits or hard ceilings that are not indicated on the drawings for the PCGC to remove and replace- will be cut and patched by the MEP contractor requiring access. For shared access to the same wall/ceiling systems, the contractor with the most work will be responsible for cutting and patching the shared openings. Patching must be performed by a skilled tradesman of the associated work (carpentry, taping, painting, etc.,).
5. Each Prime Contractor is required to fire stop and/ or smoke stop all walls, floors and ceilings after completion of all their own work.
6. This Prime Contractor is responsible for protection of finished work and existing finishes. This Prime Contractor will provide, maintain, and remove the appropriate protection materials necessary to adequately protect his finished product.
7. **Openings in Existing Systems:** Each respective Prime Contractor will be responsible to provide their own openings through existing walls, floors, slabs, ceiling and roofing systems not indicated to be removed by the PCGC on the Contract Drawings. Where openings for MEPs are required in new walls, floors, slabs, ceilings or roof systems, the GC shall coordinate with the respective MEP Prime contractor to locate those openings and frame the system to incorporate the new opening.

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8. Core Drilling: Each respective Prime Contractor shall provide their own core drilling through existing and new wall, floor/slab or foundation systems.
9. Roof Systems: In any case, this Prime Contractor (PCMC) shall make all penetrations through the existing Roofing System with a qualified roofer who is certified on the existing roof system. Openings in the roof deck shall be coordinated by the respective contractor requiring the opening, and the opening shall be made by the hired roofing contractor through the Prime Contractor for Mechanical Construction.
15. New Mechanical Roof Top Units, Exhaust Fans and Pipe Portals will be furnished and installed by the Mechanical Prime (including roof membrane/insulation cutting and patching), with final Electrical/ Fire-Alarm terminations by the Electrical Prime under separate contracts.

Roof Top Curbs and Pipe Portals will be furnished, lifted/picked, and set/installed by the Mechanical Prime Contractor. Blocking for curbs, final flashing, roof deck penetrations/openings and structural reinforcing shall be by the Mechanical Prime Contractor. Coordination between each trade to install the roof system and new curbs in a seamless matter is required per each Prime's contract. The following sequence clarifies the coordination between the Mechanical (PCMC) and Electrical (PCEC) trades for New Mechanical Exhaust Fan Equipment:

- C. Roof Top Unit Curbs (Exhaust Fans, Etc.):
 1. Furnished, coordinated, lifted/picked and installed (excludes roof flashing and blocking) by Mechanical (PCMC) Prime.
 2. Deck/Roof Opening, Structural Reinforcing, Blocking, Insulation and Roof Flashing by Mechanical (PCMC) Prime.
 3. Pipe Portals/ Pitch Pockets Furnished by Mechanical (PCMC) Prime.
 4. Pipe Portals/ Pitch Pockets Installed and Flashed by Mechanical (PCMC) Prime.
- D. Mechanical Equipment (Exhaust Fans, Etc.):
 1. Furnished, hoisted/picked and installed by Mechanical (PCMC) Prime.
 2. Piping by Mechanical (PCMC) Prime
 3. Ductwork by Mechanical (PCMC) Prime
 4. Controls by Mechanical (PCMC) Prime
 5. Electrical by Electrical (PCEC) Prime
 6. Fire Alarm/ Shutdowns by Electrical (PCEC) Prime

Temporary protection of open curbs prior to units being installed, will be provided and maintained, by the by Mechanical (PCMC) Prime in cooperation of all other trades. Water infiltration as a result of any other Prime Contractor not re-protecting open roof curbs, will be the sole responsibility of that trade to reimburse the PCMC - to correct the temporary protection. Any damages to the interior finishes of the building, caused by water infiltration, will be the responsibility of that Prime Contractor causing the leak, to correct the damages per the terms of the General Conditions.

Prime Contractor for Electrical (PCEC)

Contract: 'E'

1. The PCGC and the PCCC shall provide dumpsters for this contractor to use for day-to-day rubbish. Each Prime Contractor is responsible for collecting, moving, placing, breaking down boxes and pallets, and disposing rubbish, on a daily basis, all debris from their activities into a dumpster supplied by the PCGC or

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the PCCC. Each Prime Contractor is responsible to broom clean the areas they worked in at the end of each day.

2. The Prime Contractor for Electrical is to temporarily support existing ceiling mounted equipment/devices (i.e., speakers, fire alarm apparatuses, exit signs, wiring, light fixtures, etc.) as required for demolition of existing ceilings until new equipment/devices are installed or existing equipment/device can be permanently remounted in the new ceiling by this Prime Contractor – whether shown on the plans or not.
3. The Prime Contractor for Electrical shall provide and keep temporary light and power operational for a period from fifteen minutes before the earliest starting time of the earliest trade, to fifteen minutes after the established quitting time of the trade which stops latest in the evening (fifteen foot candles) throughout the entire construction area (normal working hours 7:00 am to 4:00 pm, second-shift 3:00pm-11:00pm).

This applies to all scheduled workdays, Monday through Saturday inclusive, which are established as regular workdays for any trade engaged in the work, including such days that are holidays for Electricians but are regular workdays for other trades. These services are to be kept operational until the CM determines that they are no longer required for the execution of the work. Temporary light shall consist of a minimum of (1) bulb and cage per 10 square feet of floor space in all spaces no matter of size throughout the existing building spaces being renovated.

The Prime Contractor for Electrical shall include in his base price all costs associated with providing and maintaining adequate temporary light and power to all areas of work required by the construction documents. Each major area of work shall be provided with an adequate sized distribution panel for temporary light and power.

4. The Prime Contractor for Electrical shall provide temporary power for masonry work, mixers, steel work, or fire proofing work, compressors etc. that may require 220V temporary power. Power is to be provided at each major area of work if required.
5. **Existing Ceilings:** This Prime Contractor (PCEC) should note there are numerous areas where the existing ceilings are remaining. **This Contractor will be required to remove and reinstall any ceilings displaced by installation of this Contractor's Work, where ceilings are not being removed on the Architectural Plans.** If open ceilings are not replaced within a twenty-four hour period after a request by the Construction Manager, either verbal or written, the Construction Manager will have said ceilings reinstalled and all related costs will be back charged to said Contractor.

Any damage or dirt from the removal and reinstallation of ceiling systems, caused by this Prime Contractor will the responsibility of this contractor to replace in kind, or better.

6. This Prime Contractor shall coordinate with the General Construction Prime and Mechanical Prime Contractors to allow all Contractors unabated access to the building.
7. **Access to Work within Existing Walls, Ceiling & Floors:** Unless otherwise noted in the construction documents, this Prime Contractor will cut and cap their own work inside finished walls, floors and ceilings. Access for removals, installation and capping within existing chase walls, walls, soffits or hard ceilings that are not indicated on the drawings for the PCGC to remove and replace- will be cut and patched by the MEP contractor requiring access. For shared access to the same wall/ceiling systems, the contractor with the most work will be responsible for cutting and patching the shared openings. Patching must be performed by a skilled tradesman of the associated work (carpentry, taping, painting, etc.,).

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8. Each Prime Contractor is required to fire stop and/ or smoke stop all walls, floors and ceilings after completion of all their own work.
9. This Prime Contractor is responsible for protection of finished work. This Prime Contractor will provide, maintain, and remove the appropriate protection materials necessary to adequately protect his finished product.
10. Existing Fire Alarm: This Prime Contractor (PCEC) shall include in their base price all costs associated to temporarily maintain the existing fire alarm during construction, through a qualified vendor certified to work on the building's FA system. In the case that the fire alarm needs to be taken off-line, the EC is to provide a dedicated Firewatch per NFPA and NYSED's requirements.

This Prime Contractor will modify all existing Fire Alarm devices that are part of the existing building being renovated, maintain the devices throughout construction, and or disconnect as needed. This Prime Contractor will assure that no troubles exist, by hiring a Fire Alarm vendor who is licensed to modify the existing Fire Alarm system to accept any temporary changes through construction.

Any work which modifies the existing Fire Alarm shall take place after-hours in buildings that are occupied with Students and Faculty. This includes Student and Faculty occupancy over the Summer academic-recess months.

Surface Mounted Devices: This Prime Contractor shall remove all existing surface-mounted Fire Alarm Devices such as Strobes, Horns, etc., on walls receiving new finishes, such as ceilings, and shall reinstall devices on face of a new finished wall/ceiling system. This includes any type of surface-mounted conduit/ wire-mold.

Recessed Devices: This Prime Contractor shall modify any in-wall/recessed Fire-Alarm boxes for devices such as Strobes, Horns, etc., with collars or extensions to extend the devices below the ceiling system in areas where existing walls are receiving new finishes, such new ceilings, etc.,.

11. This Prime contractor will modify existing power devices where walls are receiving new finishes, such as new ceilings, etc..

Surface Mounted Devices: This Prime Contractor shall remove all existing surface-mounted Electrical Devices such as receptacles, junction boxes, speakers, clocks, security cameras etc., on walls receiving new finishes, such as new ceilings, etc., and shall reinstall devices in new locations . This includes any type of surface-mounted conduit/ wire-mold.

Recessed Devices: This Prime Contractor shall modify any in-wall/recessed Electrical Devices such as light switches, receptacles, junction boxes, etc., with collars or extensions to meet the face of the new wall finish in areas where existing walls are receiving new finishes, such as tile, etc..

12. This Prime Contractor is to develop a separate site-specific electrical service shutdown/upgrade schedule within four weeks after Notice of Award. This schedule will be developed in conjunction with the Construction Manager and the Owner. No shutdown/transfer will be permitted at any time without prior written notification. The Prime Contractor for Electrical shall provide temporary power for all 'others' work ongoing at the site during any electrical shutdown or transfer period that would otherwise deny other contractors power. No shutdown or transfer shall be allowed during active school hours. Any and all shutdowns must be scheduled on the Owners off days (weekends, holidays). Any shutdown longer than three days will require this Prime Contractor to supply temporary power for the Owner (i.e., generators). The Electrical Prime Contractor shall provide a minimum of forty-eight hours' notice to the Owner and the Construction Manager or any necessary power shutdown.

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13. New Mechanical Roof Top Units, Exhaust Fans and Pipe Portals will be furnished and installed by the Mechanical Prime (including roof membrane/insulation cutting and patching), with final Electrical/ Fire-Alarm terminations by the Electrical Prime under separate contracts.

Roof Top Curbs and Pipe Portals will be furnished, lifted/picked, and set/installed by the Mechanical Prime Contractor. Blocking for curbs, final flashing, roof deck penetrations/openings and structural reinforcing shall be by the Mechanical Prime Contractor. Coordination between each trade to install the roof system and new curbs in a seamless matter is required per each Prime's contract. The following sequence clarifies the coordination between the Mechanical (PCMC) and Electrical (PCEC) trades for New Mechanical Exhaust Fan Equipment:

- E. Roof Top Unit Curbs (Exhaust Fans, Etc.):
1. Furnished, coordinated, lifted/picked and installed (excludes roof flashing and blocking) by Mechanical (PCMC) Prime.
 2. Deck/Roof Opening, Structural Reinforcing, Blocking, Insulation and Roof Flashing by Mechanical (PCMC) Prime.
 3. Pipe Portals/ Pitch Pockets Furnished by Mechanical (PCMC) Prime.
 4. Pipe Portals/ Pitch Pockets Installed and Flashed by Mechanical (PCMC) Prime.
- F. Mechanical Equipment (Exhaust Fans, Etc.):
1. Furnished, hoisted/picked and installed by Mechanical (PCMC) Prime.
 2. Piping by Mechanical (PCMC) Prime
 3. Ductwork by Mechanical (PCMC) Prime
 4. Controls by Mechanical (PCMC) Prime
 5. Electrical by Electrical (PCEC) Prime
 6. Fire Alarm/ Shutdowns by Electrical (PCEC) Prime

Temporary protection of open curbs prior to units being installed, will be provided and maintained, by the by Mechanical (PCMC) Prime in cooperation of all other trades. Water infiltration as a result of any other Prime Contractor not re-protecting open roof curbs, will be the sole responsibility of that trade to reimburse the PCMC - to correct the temporary protection. Any damages to the interior finishes of the building, caused by water infiltration, will be the responsibility of that Prime Contractor causing the leak, to correct the damages per the terms of the General Conditions.

14. Openings in Existing Systems: Each respective Prime Contractor will be responsible to provide their own openings through existing wall, floor, and ceiling systems not shown to be removed on the Architectural Drawings. Where openings for MEPs are required in new wall, floor or ceiling systems, the GC shall coordinate with the respective MEP Prime contractor to locate those openings and frame the system to incorporate the new opening.
15. Core Drilling: Each respective Prime Contractor shall provide their own core drilling through existing and new wall, floor/slab or foundation systems.
16. Roof Systems: Electrical penetrations in the roof deck must be coordinated with the PCMC, and must be performed by this Prime Contractor. This Prime Contractor shall use the provided pitch-pockets/ pipe portals to run their conduit and cable.

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17. Trenching for Field Lighting and Scoreboards: This Prime Contractor shall include adjusting the elevation of provided bedding by the Prime Contractor for Civil Construction (PCCC) contractor to lay their conduit in trenches dug by the PCCC. This Prime contractor will lay their conduit promptly after the excavation of trenches within 12 hours of the trench being excavated. This Prime Contractor shall perform their underwriters certification prior to having the PCCC backfill. At no time shall more trench be open than can be backfilled within a 24 hour window. This Prime Contractor (PCEC) will insure that they abide by all Federal (OSHA/NIOSH) and local guidelines while performing their conduit installation within trenches.
18. Field Lighting: This Prime Contractor shall include furnishing and installing all new field lighting, including all new power provisions, the erection of masts and the installation of footings/foundations. Excavation for the field lighting foundations is to be included by this Prime Contractor, including the design, forming, reinforcing, and pouring of foundations. Utility trenching shall be by this Prime Contractor, 5'-0" from the foundation of the light pole.

This Prime Contractor will provide all of the testing and training required to turn over the new field lighting to the District, for Owner acceptance.

19. Scoreboards: This Prime Contractor shall include furnishing and installing both new scoreboards, including the removal of both existing scoreboards and any modifications to the existing scoreboard structure. This Prime Contractor shall include all new power and communication provisions to each scoreboard as shown on the drawings. This Prime Contractor shall include excavation for utilities, 5'-0" from the foundation of the scoreboard structure to the utility trench provided by the PCCC.

This Prime Contractor will provide all of the testing and training required to turn over the new signs to the District, for Owner acceptance.

Act ID	Description	Orig Dur	Early Start	Early Finish	2023												2024												2025
					JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN					
WPHS - CEILINGS AT WINGS 'C & D'																													
1200	MOBILIZE (2ND SHIFT)	0	03OCT23																										
1240	INSTALL/MODIFY MEP ROUGH-IN (2ND SHIFT)	45	03OCT23	04DEC23																									
1250	INSTALL CEILING GRID (2ND SHIFT)	45	20OCT23	21DEC23																									
1260	INSTALL LIGHTING (2ND SHIFT)	45	08NOV23	11JAN24																									
1270	INSTALL CEILING TILES (2ND SHIFT)	46	27NOV23	31JAN24																									
1280	SUBSTANTIAL COMPLETION OF AREA	0		31JAN24																									
1310	CLOSEOUT (IF ALTERNATES ARE NOT ACCEPTED)	25	01FEB24	06MAR24																									
WPHS - CEILINGS AT WINGS 'A & B'																													
2000	MOBILIZE (2ND SHIFT)	0	01FEB24																										
2040	INSTALL/MODIFY MEP ROUGH-IN (2ND SHIFT)	45	01FEB24	03APR24																									
2050	INSTALL CEILING GRID (2ND SHIFT)	45	20FEB24	22APR24																									
2060	INSTALL LIGHTING (2ND SHIFT)	45	08MAR24	09MAY24																									
2070	INSTALL CEILING TILES (2ND SHIFT)	46	27MAR24	29MAY24																									
2080	SUBSTANTIAL COMPLETION	0		29MAY24																									
2110	CLOSEOUT (IF ALTERNATE IS ACCEPTED)	25	30MAY24	03JUL24																									
WPHS - CEILINGS AT WINGS 'G & E'																													
1100	MOBILIZE (2ND SHIFT)	0	30APR24																										
1106	INSTALL/MODIFY MEP ROUGH-IN (2ND SHIFT)	45	30APR24	01JUL24																									
1109	INSTALL CEILING GRID (2ND SHIFT BEFORE JUNE 26)	45	17MAY24	19JUL24																									
1115	INSTALL LIGHTING (2ND SHIFT BEFORE JUNE 26)	45	05JUN24	07AUG24																									
1121	INSTALL CEILING TILES	47	24JUN24	28AUG24																									
1175	SUBSTANTIAL COMPLETION	0		28AUG24																									
1375	CLOSEOUT (IF ALTERNATE IS ACCEPTED)	25	29AUG24	02OCT24																									
WPHS - DUCTWORK AND SOFFIT IN CLASSROOMS																													
4000	MOBILIZE	0	24JUN24																										
4005	INSTALL PROTECTION IN CLASS ROOMS	5	24JUN24	28JUN24																									
4010	INSTALL TRANSOM FILM	20	01JUL24	29JUL24																									
4030	INSTALL NEW CLASSROOM EXHAUST DUCT	25	09JUL24	12AUG24																									
4040	INSTALL CURBS AND EQUIPMENT	10	16JUL24	29JUL24																									
4050	INSTALL NEW CLASSROOM SOFFIT	27	23JUL24	28AUG24																									
4055	SUBSTANTIAL COMPLETION	0		28AUG24																									
4060	CLOSEOUT	23	29AUG24	30SEP24																									
Company name		TRITON/ H2M		WHITE PLAINS CITY SCHOOL DISTRICT																						<div><div></div> Early bar</div>			
Project name		WPCSD PH-1 BID ...																											
Project title		WPCSD - PHASE-1 BID SCHEDULE																											
Number/Version		BID 1.0_ADD#2		'22 CAPITAL IMPROVEMENT PROJECT																						<div><div></div> Progress bar</div>			
Page number		2A																											
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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 11 – EQUIPMENT

(written in words) _____ (\$ _____)

ITEM 6 – DIVISION 31 – EARTHWORK

(written in words) _____ (\$ _____)

ITEM 7 – DIVISION 32 – EXTERIOR IMPROVEMENTS

(written in words) _____ (\$ _____)

ITEM 8 – DIVISION 33 – UTILITIES

(written in words) _____ (\$ _____)

ITEM 9 – 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) Twenty Thousand Dollars and 00 Cents (\$20,000.00)

ALLOWNACE C4 – ALLOWANCE FOR ASPHALT PAVING REPLACEMENT

(written in words) Thirty Thousand Dollars and 00 Cents (\$30,000.00)

ALLOWNACE C5 – ALLOWANCE FOR BIORETENTION PLANTING

(written in words) Ten Thousand Dollars and 00 Cents (\$10,000.00)

TOTAL BASE BID (ITEMS 1 – 9 INCLUSIVE, PLUS ALLOWANCE C1, C2, C3, C4 & C5)

(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	Rock Removal Provide all labor, material and equipment to excavate / remove 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 rock removal 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 SHALL SUBMIT WITH THEIR 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 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 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 FROM 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 – Friday
WORK HOURS:	7:00 AM - 4:00 PM
CONSTRUCTION START DATE:	October 2, 2023
NEW TURF FIELD CONSTRUCTION DATES:	October 2, 2023 – July 31, 2024
LOUCKS TRACK CONSTRUCTION DATES:	June 1, 2024 – July 31, 2024
SUBSTANTIAL COMPLETION:	July 31, 2024
FINAL COMPLETION:	August 29, 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 G – General 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 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 – PROJECT CLOSEOUT

(written in words) _____ (\$ _____)

ALLOWANCE G1 – ALLOWANCE FOR GENERAL CONTINGENCY

(written in words) Fifty Thousand Dollars and 00 Cents (\$50,000.00)

TOTAL BASE BID (ITEMS 1 – 11 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 SHALL SUBMIT WITH THEIR 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 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 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 FROM 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 – Friday
WORK HOURS:	7:00 AM - 4:00 PM
CONSTRUCTION START DATE:	October 3, 2023
CORRIDOR CEILINGS - WINGS C&D (BASE BID):	October 3 2023 – Jan 31, 2024 (Second Shift)
CORRIDOR CEILINGS - WING A&B (ALTS. G1 & G2):	February 1, 2024 – May 29, 2024 (Second Shift)
CORRIDOR CEILINGS - WING G&E (ALTS. G3 & G4):	April 30, 2024 – August 28, 2024 (Second Shift > Normal Shift)
CLASSROOM SOFFITS & CHASE - (BASE BID):	June 24, 2024 – August 28, 2024 (Normal Shift)
SUBSTANTIAL COMPLETION:	August 28, 2024
FINAL COMPLETION:	October 2, 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

(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) Forty Thousand Dollars and 00 Cents (\$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 THEIR 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 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 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 FROM 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 – Friday
WORK HOURS:	7:00 AM - 4:00 PM
CONSTRUCTION START DATE:	June 24, 2024
SUBSTANTIAL COMPLETION:	August 28, 2024
FINAL COMPLETION:	October 2, 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.

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.: _____

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 11 – EQUIPMENT

(written in words) _____ (\$)

ITEM 7 – DIVISION 26 – ELECTRICAL DEMOLITION

(written in words) _____ (\$)

ITEM 8 – DIVISION 26 – GROUNDING AND BONDING

(written in words) _____ (\$)

ITEM 9 – DIVISION 26 – SUPPORT DEVICES and HANGERS

(written in words) _____ (\$)

ITEM 10 – DIVISION 26 – ELECTRICAL IDENTIFICATION

(written in words) _____ (\$)

ITEM 11 – DIVISION 26 – SWITCHGEAR

(written in words) _____ (\$)

ITEM 12 – DIVISION 26 – PANELBOARDS

(written in words) _____ (\$)

ITEM 13 – DIVISION 26 – WIRING DEVICES

(written in words) _____ (\$)

ITEM 14 – DIVISION 26 - UTILITY SERVICES

(written in words) _____ (\$)

ITEM 15 – DIVISION 28 – TEMPORARY CONTROLS

(written in words) _____ (\$)

ITEM 16 – DIVISION 31 & 32 – EARTHWORK & EXTERIOR IMPROVEMENTS

(written in words) _____ (\$)

ITEM 17 – AS-BUILT DRAWINGS

(written in words) _____ (\$)

ITEM 18 – 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 –18 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 THEIR 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 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 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 FROM 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 – Friday
WORK HOURS:	7:00 AM - 4:00 PM
CONSTRUCTION START DATE:	October 3, 2023
CORRIDOR CEILINGS - WINGS C&D (BASE BID):	October 3 2023 – Jan 31, 2024 (Second Shift)
CORRIDOR CEILINGS - WING A&B (ALTS. E1 & E2):	February 1, 2024 – May 29, 2024 (Second Shift)
CORRIDOR CEILINGS - WING G&E (ALTS. E3 & E4):	April 30, 2024 – August 28, 2024 (Second Shift > Normal Shift)
FIELD SPORTS LIGHTING & SCOREBOARDS CONSTRUCTION DATES (ALTS. E5, E6 & E7):	October 3 2023 – July 30, 2024 (Second Shift > Normal Shift)
SUBSTANTIAL COMPLETION:	August 28, 2024
FINAL COMPLETION:	October 2, 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.

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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 SECTION INCLUDES

- A. Aggregate base course.
- B. Single course bituminous concrete paving.
- C. Double 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.
- D. ASTM D946 - Standard Specification for Penetration-Graded Asphalt Cement for Use in Pavement Construction; 2009a.

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.

1.05 FIELD CONDITIONS

- A. Do not place asphalt when ambient air or base surface temperature is less than 40 degrees F (4 degrees C), or surface is wet or frozen.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Asphalt Cement: ASTM D946.
- B. Aggregate for Base Course : Angular crushed washed stone; free of shale, clay, friable material and debris.
 - 1. Graded in accordance with ASTM C136/C136M, within the following limits:

- a. 2 inch (50 mm) sieve: 100 percent passing.
 - b. 1 1/2 inch (37.5 mm) sieve: 90-100 percent passing.
 - c. 1 inch (25 mm) sieve: 78 to 95 percent passing.
 - d. 1/2 inch (12.7 mm) sieve: 57 to 84 percent passing.
 - e. 1/4 inch (6.35 mm) sieve: 40 to 72 percent passing.
 - f. 1/8 inch (3.18 mm) sieve: 26 to 57 percent passing.
 - g. No. 20 (840 micro m): 12 to 36 percent passing.
 - h. No. 40 (450 micro m): 8 to 25 percent passing.
 - i. No. 80 (177 micro m): 4 to 16 percent passing.
 - j. No. 200 (75 micro m): 2 to 8 percent passing.
- C. Aggregate for Binder Course : Angular crushed washed stone; free of shale, clay, friable material and debris.
- 1. Graded in accordance with ASTM C136/C136M, within the following limits:
 - a. 1 1/2 inch (37.5 mm) sieve: 100 percent passing.
 - b. 1 inch (25 mm) sieve: 95 to 100 percent passing.
 - c. 1/2 inch (12.7 mm) sieve: 70 to 90 percent passing.
 - d. 1/4 inch (6.35 mm) sieve: 48 to 74 percent passing.
 - e. 1/8 inch (3.18 mm) sieve: 32 to 62 percent passing.
 - f. No. 20 (840 micro m): 15 to 39 percent passing.
 - g. No. 40 (450 micro m): 8 to 27 percent passing.
 - h. No. 80 (177 micro m): 4 to 16 percent passing.
 - i. No. 200 (75 micro m): 2 to 8 percent passing.
- D. 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:
 - 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.
- E. Fine Aggregate: In accordance with State of New York Highways standards.

2.02 ASPHALT PAVING MIXES AND MIX DESIGN

- A. Asphalt Binder Course: 4.5 to 6 percent of asphalt cement by weight in mixture in accordance with AI ____.
- B. Asphalt Wearing Course: 5 to 7 percent of asphalt cement by weight in mixture in accordance with AI MS-2.

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 PLACING ASPHALT PAVEMENT - DOUBLE COURSE

3.05 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.

3.06 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.

3.07 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.

- C. Place asphalt binder course within 24 hours of applying primer or tack coat.
- D. Place asphalt wearing course within two hours of placing and compacting binder course.
- E. Compact pavement by rolling to specified density. Do not displace or extrude pavement from position. Hand compact in areas inaccessible to rolling equipment.
- F. Perform rolling with consecutive passes to achieve even and smooth finish, without roller marks.

END OF SECTION

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Synthetic track system

1.02 RELATED SECTIONS

- A. Section 321216 - Asphaltic Concrete Paving.

1.03 SUBMITTALS

- A. Submit under provisions of Section 013300.
- B. Product Data: Submit manufacturer's literature on primer, binder, and EPDM surface.
- C. Contractor shall submit two (2) 2' x 4' samples of the synthetic track system.
- D. Manufacturer's Installation instructions: submit instructions that describe installation methods.
- E. Submit color chart showing full range of manufacturer's colors.

1.04 DELIVERY, STORAGE AND HANDLING

- A. Deliver, store and handle products to the site under provisions of Section 016500.
- B. Deliver all materials in original unopened packages with labels intact.
- C. Store all materials at temperatures not less than 40 degrees Fahrenheit.
- D. Do not install products unless ambient air temperature is at least 40 degrees Fahrenheit and is expected to remain above 40 degrees Fahrenheit for seven (7) days.

1.05 QUALIFICATIONS

- A. Manufacturer: Minimum five (5) years documented experience in the manufacturing of synthetic track systems. Striping layout and certification of accuracy must be indicated.
- B. Installer: Trained and registered by manufacturer.
- C. Layout of site and certification of accuracy must be completed by a licensed land surveyor licensed by the state of New York.

1.06 QUALITY ASSURANCE

- A. Obtain all materials from one manufacturer.
- B. Track shall be installed to the requirements of the manufacturer.

1.07 PROJECT RECORD DOCUMENTS

- A. Submit under provision of Section 017839.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Beynon Sporting Surfaces.: BSS 1000 SYNTHETIC TRACK SURFACING SYSTEM (Black base mat, colored structural spray wearing course)
- B. Substitutions shall be permitted only after receiving written approval from the Engineer.

2.02 MATERIALS

- A. Primer: Single component moisture cured polyurethane primer.
- B. Pigmented Spray Binder: Elastic Polyurethane Pre-Polymer, MDI based. Extremely low odor, capable of excellent weathering and binding characteristics. Binder shall contain 0% TDI Monomers; color to be selected by Owner.
- C. EPDM Spray Rubber Granulate - Pigmented structural spray: 0.5mm to 1.5mm rubber granules; minimum 20% EPDM; color to be selected by Owner.
- D. Clear Base Mat Binder: 100% Polyurethane Pre-Polymer, MDI based. Extremely low odor, capable of excellent weathering and binding characteristics. Binder shall contain 0% TDI Monomers.
- E. EPDM Rubber Base Mat Granulate: 1 mm to 4mm rubber granules; containing no dust and having a density of 1.5 - 0.05.
- F. Line Markers: Two (2) component polyurethane

2.03 MIXES

- A. Black Base Mat:
 - 1. 20% Base Mat Binder; 80% EPDM Rubber Base Mat Granulate
 - 2. Applied to depth of 1/2".
- B. Structural Spray Application:
 - 1. 60% Pigmented spray binder; 40% pigmented spray rubber granulate
 - 2. Installed in two (2) spray applications. Minimum of 1.8 lbs. of structural spray per square yard to be installed per coat.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify elevations of the asphalt pavement and/or existing track surface are as indicated on the plans.
- B. Beginning of installation means installer accepts existing conditions.

3.02 PREPARATION

- A. Prepare asphalt surface and/or existing track surface in accordance with the manufacturer's requirements.

3.03 INSTALLATION

- A. Install full pure track system in accordance with the manufacturer's instructions.
- B. Install synthetic overlay in accordance with the manufacturer's instructions.
- C. Install striping in accordance with manufacturer's instructions.

END OF SECTION

PART 1 – GENERAL

1.01 SUMMARY

- A. Work covered by this section of the specifications shall conform to the contract documents, engineering plans as well as state and local codes.
- B. The purpose of these specifications is to define the lighting system performance and design standards for White Plains High School Athletic Field using an LED Lighting source. The manufacturer / contractor shall supply lighting equipment to meet or exceed the standards set forth in these specifications.
- C. The sports lighting will be for the following venues:
 - 1. Multipurpose Athletic Field
- D. The primary goals of this sports lighting project are:
 - 1. Guaranteed Light Levels: Selection of appropriate light levels impact the safety of the players and the enjoyment of spectators. Therefore, light levels are guaranteed to not drop below specified target values for a period of 25 years.
 - 2. Environmental Light Control: It is the primary goal of this project to minimize spill light to adjoining properties and glare to the players, spectators, and neighbors.
 - 3. Cost of Ownership: In order to reduce the operating budget, the preferred lighting system shall be energy efficient and cost effective to operate. All maintenance costs shall be eliminated for the duration of the warranty.
 - 4. All lighting designs shall comply with IESNA RP-6-20.

1.02 FIELD LIGHTING PERFORMANCE

- A. Illumination Levels and Design Factors: Playing surfaces shall be lit to an average target illumination level and uniformity as specified in the chart below. Lighting manufacturers will provide a guarantee that light levels will be sustained over the life of the warranty period. Lighting calculations shall be developed and field measurements taken on the grid spacing with the minimum number of grid points specified below.
 - 1. Manufacturers will provide lumen maintenance data of the LED luminaires used per TM-21-11 and will incorporate the lumen maintenance projections into the lighting designs to ensure target light levels are achieved throughout the guaranteed period of the system. Per IES guidelines, lumen maintenance hours should be reported based on the 6x multiplier of testing hours.

AREA OF LIGHTING	AVERAGE TARGET ILLUMINATION LEVELS	MAXIMUM TO MINIMUM UNIFORMITY RATIO	GRID POINTS	GRID SPACING
FOOTBALL	50 FOOTCANDLES	2:1	72	30' X 30'

- A. Color Temperature: The lighting system shall have a minimum color temperature of 5700K and a CRI of 75.
- B. Playability: Lighting design and luminaire selection should be optimized for playability by reducing glare on the field and providing sufficient uplight.

1. Aiming Angles: To reduce glare, luminaire aiming should ensure the top of the luminaire field angle (based on sample photometric reports) is a minimum of 10 degrees below horizontal.
2. Glare Control Technology – Luminaires selected should have glare control technology including, but not limited to: external visors, internal shields and louvers. No symmetrical beam patterns are acceptable.
3. Aerial Lighting – Adequate illumination must be provided above the field in order to see the ball in flight. It is recommended that a lighting analysis be performed above the field of play to evaluate the visibility of the ball over its typical trajectory to ensure the participants will adequately see the ball. Calculation planes should be evaluated up to the maximum anticipated height for the level of play.
4. Mounting Heights: To ensure proper aiming angles, minimum mountings heights shall be as described below. Higher mounting heights may be necessary for luminaire with lesser glare control to meet field angle requirements of section 1.2.C.1.

# OF POLES	POLE DESIGNATION	POLE HEIGHT
4	F5, F6, F7, F8	60'

1.03 ENVIRONMENTAL LIGHT CONTROL

- A. Light Control Luminaires: All luminaires shall be fully shielded utilize spill light and glare control devices including, but not limited to, internal shields, louvers and external shields. No symmetrical beam patterns are accepted.
- B. Spill Light and Glare Control: To minimize impact on adjacent properties, spill light and candela values must not exceed the following levels taken at 3 feet above grade.

	MAXIMUM
HORIZONTAL FOOTCANDLES AT 150FT FROM FIELD PERIMETER	0.05 FC
VERTICAL FOOTCANDLES AT 150FT FROM FIELD PERIMETER	0.1 FC
CANDELA AT 150FT FROM FIELD PERIMETER	1750 CD

- A. Environmental glare impact scans must be submitted showing the maximum candela from the field edge on a map of the surrounding area until 500 candela or less is achieved.
- B. Spill Scans: Spill scans must be submitted indicating the amount of horizontal and vertical footcandles along the specified lines. Light levels shall be provided in 30-foot intervals along the boundary line at 3 ft above grade.
- C. Sample Photometry: The first page of a photometric report for all luminaire types proposed showing horizontal and vertical axial candle power shall be provided to demonstrate the capability of achieving the specified performance. Reports shall be certified by a qualified testing laboratory with a minimum of five years of experience or by a manufacturer's laboratory with a current accreditation under the National Voluntary Laboratory Accreditation Program for Energy Efficient Lighting Products. A summary of the horizontal and vertical aiming angles for each luminaire shall be included with the photometric report.

- D. Field Verification: Lighting manufacturer shall supply field verification of environmental light control using a meter calibrated within the last 12 months:
 - 1. Spill verification: Illumination levels shall be taken in accordance with IESNA LM-5-04. The light sensing surface of the light meter should be held 36 inches above the playing surface with the sensing surface horizontal (for horizontal readings) or vertically pointed at the brightest light bank (for max vertical readings)

1.04 COST OF OWNERSHIP

- A. Manufacturer shall submit a 25-year Cost of Ownership summary that includes energy consumption, anticipated maintenance costs, and control costs. All costs associated with faulty luminaire replacement - equipment rentals, removal and installation labor, and shipping - are to be included in the maintenance costs.

PART 2 – PRODUCT

2.01 SPORTS LIGHTING SYSTEM CONSTRUCTION

- A. Manufacturing Requirements: All components shall be designed and manufactured as a system. All luminaires, wire harnesses, drivers and other enclosures shall be factory assembled, aimed, wired and tested.
- B. Durability: All exposed components shall be constructed of corrosion resistant material and/or coated to help prevent corrosion. All exposed carbon steel shall be hot dip galvanized per ASTM A123. All exposed aluminum shall be powder coated with high performance polyester or anodized. All exterior reflective inserts shall be anodized, coated, and protected from direct environmental exposure to prevent reflective degradation or corrosion. All exposed hardware and fasteners shall be stainless steel, passivated and coated with aluminum-based thermosetting epoxy resin for protection against corrosion and stress corrosion cracking. Structural fasteners may be carbon steel and galvanized meeting ASTM A153 and ISO/EN 1461 (for hot dipped galvanizing), or ASTM B695 (for mechanical galvanizing). All wiring shall be enclosed within the cross-arms, pole, or electrical components enclosure.
- C. System Description: Lighting system shall consist of the following:
 - 1. Galvanized steel poles and cross-arm assembly.
 - 2. Non-approved pole technology:
 - a. Square static cast concrete poles will not be accepted.
 - b. Direct bury steel poles which utilize the extended portion of the steel shaft for their foundation will not be accepted due to potential for internal and external corrosive reaction to the soils and long-term performance concerns.
 - 1) Lighting systems shall use concrete foundations. See Section 2.4 for details.
 - (a) For a foundation using a pre-stressed concrete base embedded in concrete backfill the concrete shall be air-entrained and have a minimum compressive design strength at 28 days of 3,000 PSI. 3,000 PSI concrete specified for early pole erection, actual required minimum allowable concrete strength is 1,000 PSI. All piers and concrete backfill must bear on and against firm undisturbed soil.
 - (b) For anchor bolt foundations or foundations using a pre-stressed concrete base in a suspended pier or re-inforced pier design pole erection may occur after 7 days. Or after a concrete sample from the same batch achieves a certain strength.
 - 2) Manufacturer will supply all drivers and supporting electrical equipment

- (a) Remote drivers and supporting electrical equipment shall be mounted approximately 10 feet above grade in aluminum enclosures. The enclosures shall be touch-safe and include drivers and fusing with indicator lights on fuses to notify when a fuse is to be replaced for each luminaire. Disconnect per circuit for each pole structure will be located in the enclosure. Drivers located at the top of the poles are not allowed.
- (b) Manufacturer shall provide surge protection at the pole equal to or greater than 40 kA for each line to ground (Common Mode) as recommended by IEEE C62.41.2_2002.
- 3) Wire harness complete with an abrasion protection sleeve, strain relief and plug-in connections for fast, trouble-free installation.
- 4) All luminaires, visors, and cross-arm assemblies shall withstand 150 mi/h winds and maintain luminaire aiming alignment.
- 5) Control cabinet to provide remote on-off control, monitoring, and entertainment features of the lighting system. See Section 2.3 for further details.
- 6) Manufacturer shall provide lightning grounding as defined by NFPA 780 and be UL Listed per UL 96 and UL 96A.
 - (a) Integrated grounding via concrete encased electrode grounding system.
 - (b) If grounding is not integrated into the structure, the manufacturer shall supply grounding electrodes, copper down conductors, and exothermic weld kits. Electrodes and conductors shall be sized as required by NFPA 780. The grounding electrode shall be minimum size of 5/8 inch diameter and 8 feet long, with a minimum of 10 feet embedment. Grounding electrode shall be connected to the structure by a grounding electrode conductor with a minimum size of 2 AWG for poles with 75 feet mounting height or less, and 2/0 AWG for poles with more than 75 feet mounting height.

D. Safety: All system components shall be UL listed for the appropriate application.

2.02 ELECTRICAL

- A. Electric Power Requirements for the Sports Lighting Equipment:
 - 1. Electric power: 208 Volt, 3 Phase
 - 2. Maximum total voltage drop: Voltage drop to the disconnect switch located on the poles shall not exceed three (3) percent of the rated voltage.
- B. Energy Consumption: The kW consumption for the field lighting system shall be 45 kW or less.

2.03 CONTROL

- A. Instant On/Off Capabilities: System shall provide for instant on/off of luminaires.
- B. Lighting contactor cabinet(s) constructed of NEMA Type 4 aluminum, designed for easy installation with contactors, labeled to match field diagrams and electrical design. Manual off-on-auto selector switches shall be provided.
- C. Contactor control of lights: To minimize wear on drivers and other electrical components and prevent lights from turning on due to communication loss, circuits must be controlled via contactor switching, not dimming driver output to zero.
- D. Dimming: System shall provide for 3-stage dimming (high-medium-low). Dimming will be set via scheduling options (Website, app, phone, fax, email).

- E. Remote Lighting Control System: System shall allow owner and users with a security code to schedule on/off system operation via a web site, phone, fax or email up to ten years in advance. Manufacturer shall provide and maintain a two-way TCP/IP communication link. Trained staff shall be available 24/7 to provide scheduling support and assist with reporting needs.
 - 1. The owner may assign various security levels to schedulers by function and/or fields. This function must be flexible to allow a range of privileges such as full scheduling capabilities for all fields to only having permission to execute "early off" commands by phone. Scheduling tool shall be capable of setting curfew limits.
 - 2. Controller shall accept and store 7-day schedules, be protected against memory loss during power outages, and shall reboot once power is regained and execute any commands that would have occurred during outage.
- F. Remote Monitoring System: System shall monitor lighting performance and notify manufacturer if individual luminaire outage is detected so that appropriate maintenance can be scheduled. The controller shall determine switch position (manual or auto) and contactor status (open or closed).
- G. Management Tools: Manufacturer shall provide a web-based database and dashboard tool of actual field usage and provide reports by facility and user group. Dashboard shall also show current status of luminaire outages, control operation and service. Mobile application will be provided suitable for IOS, Android and Blackberry devices.
 - 1. Hours of Usage: Manufacturer shall provide a means of tracking actual hours of usage for the field lighting system that is readily accessible to the owner.
 - a. Cumulative hours: shall be tracked to show the total hours used by the facility
 - b. Report hours saved by using early off and push buttons by users.
- H. Communication Costs: Manufacturer shall include communication costs for operating the control and monitoring system for a period of 25 years.
- I. Communication with luminaire drivers: Control system shall interface with drivers in electrical components enclosures by means of powerline communication.

2.04 STRUCTURAL PARAMETERS

- A. Wind Loads: Wind loads shall be based on the 2018 International Building Code. Wind loads to be calculated using ASCE 7-16, an ultimate design wind speed of 120 mph and exposure category C.
- B. Pole Structural Design: The stress analysis and safety factor of the poles shall conform to 2013 AASHTO Standard Specification for Structural Supports for Highway Signs, Luminaires, and Traffic Signals (LTS-6).
- C. Foundation Design: The foundation design shall be based on soil parameters as outlined in the geotechnical report.
- D. Foundation Drawings: Project specific foundation drawings stamped by a registered engineer in the state where the project is located are required. The foundation drawings must list the moment, shear (horizontal) force, and axial (vertical) force at ground level for each pole. These drawings must be submitted at time of bid to allow for accurate pricing.

PART 3 – EXECUTION

3.01 SOIL QUALITY CONTROL

- A. It shall be the Contractor's responsibility to notify the Owner if soil conditions exist other than those on which the foundation design is based, or if the soil cannot be readily excavated. Contractor may issue a change order request / estimate for the Owner's approval / payment for additional costs associated with:
 - 1. Providing engineered foundation embedment design by a registered engineer in the State of New York for soils other than specified soil conditions.
 - 2. Additional materials required to achieve alternate foundation.
 - 3. Excavation and removal of materials other than normal soils, such as rock, caliche, etc.

3.02 DELIVERY TIMING

- A. Delivery Timing Equipment On-Site: The equipment must be on-site 8-10 weeks from receipt of approved submittals and receipt of complete order information.

3.03 FIELD QUALITY CONTROL

- A. Illumination Measurements: Upon substantial completion of the project and in the presence of the Contractor, Project Engineer, Owner's Representative, and Manufacturer's Representative, illumination measurements shall be taken and verified. The illumination measurements shall be conducted in accordance with IESNA LM-5-04.
- B. Field Light Level Accountability
 - 1. Light levels are guaranteed not to fall below the target maintained light levels for the entire warranty period of 25 years. These levels will be specifically stated as "guaranteed" on the illumination summary provided by the manufacturer.
 - 2. The contractor/manufacturer shall be responsible for conducting initial light level testing and an additional inspection of the system, in the presence of the owner, one year from the date of commissioning of the lighting.
 - 3. The contractor/manufacturer will be held responsible for any and all changes needed to bring these fields back to compliance for light levels and uniformities. Contractor/Manufacturer will be held responsible for any damage to the fields during these repairs.
- C. Correcting Non-Conformance: If, in the opinion of the Owner or his appointed Representative, the actual performance levels including footcandles, uniformity ratios, uplight for aerial visibility, and offsite candela readings are not in conformance with the requirements of the performance specifications and submitted information, the Manufacturer shall be required to make adjustments to meet specifications and satisfy Owner.

3.04 WARRANTY AND GUARANTEE

- A. 25-Year Warranty: Each manufacturer shall supply a signed warranty covering the entire system for 25 years from the date of shipment. Warranty shall guarantee specified light levels. Manufacturer shall maintain specifically funded financial reserves to assure fulfillment of the warranty for the full term. Warranty does not cover weather conditions events such as lightning or hail damage, improper installation, vandalism or abuse, unauthorized repairs or alterations, or product made by other manufacturers.

- B. Maintenance: Manufacturer shall monitor the performance of the lighting system, including on/off status, hours of usage and luminaire outage for 25 years from the date of equipment shipment. Parts and labor shall be covered such that individual luminaire outages will be repaired when the usage of any field is materially impacted. Manufacturer is responsible for removal and replacement of failed luminaires, including all parts, labor, shipping, and equipment rental associated with maintenance. Owner agrees to check fuses in the event of a luminaire outage.

3.05 PART 4 – DESIGN APPROVAL

3.06 4.1 PRE-BID SUBMITTAL REQUIREMENTS (NON-APPROVED PRODUCTS)

- A. Design Approval: The owner / engineer will review pre-bid submittals per section 4.1.B from all the manufacturers to ensure compliance to the specification 10 days prior to bid. If the design meets the design requirements of the specifications, a letter and/or addendum will be issued to the manufacturer indicating approval for the specific design submitted.
- B. Approved Product: Musco's Light-Structure System™ with TLC for LED® is the approved product. All substitutions must provide a complete submittal package for approval as outlined in Submittal Information at the end of this section at least 10 days prior to bid. Special manufacturing to meet the standards of this specification may be required. An addendum will be issued prior to bid listing any other approved lighting manufacturers and designs.
- C. All listed manufacturers not pre-approved shall submit the information at the end of this section at least 10 days prior to bid. An addendum will be issued prior to bid; listing approved lighting manufacturers and the design method to be used.
- D. Bidders are required to bid only products that have been approved by this specification or addendum by the owner or owner's representative. Bids received that do not utilize an approved system/design, will be rejected.
- E. REQUIRED SUBMITTAL INFORMATION FOR ALL MANUFACTURERS (NOT PRE-APPROVED) 10 DAYS PRIOR TO BID

3.07 ALL ITEMS LISTED BELOW ARE MANDATORY, SHALL COMPLY WITH THE SPECIFICATION AND BE SUBMITTED ACCORDING TO PRE-BID SUBMITTAL REQUIREMENTS. COMPLETE THE YES/NO COLUMN TO INDICATE COMPLIANCE (Y) OR NONCOMPLIANCE (N) FOR EACH ITEM. SUBMIT CHECKLIST BELOW WITH SUBMITTAL.

YES/ NO	TAB	ITEM	DESCRIPTION
	A	LETTER/ CHECKLIST	LISTING OF ALL INFORMATION BEING SUBMITTED MUST BE INCLUDED ON THE TABLE OF CONTENTS. LIST THE NAME OF THE MANUFACTURER'S LOCAL REPRESENTATIVE AND HIS/HER PHONE NUMBER. SIGNED SUBMITTAL CHECKLIST TO BE INCLUDED.
	B	EQUIPMENT LAYOUT	DRAWING(S) SHOWING FIELD LAYOUTS WITH POLE LOCATIONS

	C	ON FIELD LIGHTING DESIGN	<p>LIGHTING DESIGN DRAWING(S) SHOWING:</p> <p>A. FIELD NAME, DATE, FILE NUMBER, PREPARED BY</p> <p>B. OUTLINE OF FIELD(S) BEING LIGHTED, AS WELL AS POLE LOCATION REFERENCED TO THE CENTER OF THE FIELD (X & Y), ILLUMINANCE LEVEL AT GRID SPACING SPECIFIED</p> <p>C. POLE HEIGHT, NUMBER OF FIXTURES PER POLE, HORIZONTAL AND VERTICAL AIMING ANGLES, AS WELL AS LUMINAIRE INFORMATION INCLUDING WATTAGE, LUMENS, AND OPTICS</p> <p>D. HEIGHT OF LIGHT TEST METER ABOVE FIELD SURFACE.</p> <p>E. SUMMARY TABLE SHOWING THE NUMBER AND SPACING OF GRID POINT AVERAGE, MINIMUM AND MAXIMUM ILLUMINANCE LEVELS IN FOOT CANDLE (FC); UNIFORMITY INCLUDING MAXIMUM TO MINIMUM RATIO, COEFFICIENT OF VARIANCE (CV), COEFFICIENT OF UTILIZATION (CU) UNIFORMITY GRADIENT; NUMBER OF LUMINARIES, TOTAL KILOWATTS, AVERAGE TIME FACTOR; LIGHT LOSS FACTOR.</p>
	D	OFF FIELD LIGHTING DESIGN	<p>LIGHTING DESIGN DRAWING SHOWING INITIAL SPILL LIGHT LEVELS ALONG THE BOUNDARY LINE (DEFINED ON BID DRAWINGS) IN FOOTCANDLES. LIGHTING DESIGN SHOWING GLARE ALONG THE BOUNDARY LINE IN CANDELA. LIGHT LEVELS SHALL BE TAKEN AT 30-FOOT INTERVALS ALONG THE BOUNDARY LINE. READINGS SHALL BE TAKEN WITH THE METER ORIENTATION AT BOTH HORIZONTAL AND AIMED TOWARDS THE MOST INTENSE BANK OF LIGHTS.</p>
	E	PHOTOMETRIC REPORT	<p>PROVIDE FIRST PAGE OF PHOTOMETRIC REPORT FOR ALL LUMINAIRE TYPES BEING PROPOSED SHOWING CANDELA TABULATIONS AS DEFINED BY IESNA PUBLICATION LM-35-02. PHOTOMETRIC DATA SHALL BE CERTIFIED BY LABORATORY WITH CURRENT NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM OR AN INDEPENDENT TESTING FACILITY WITH OVER 5 YEARS OF EXPERIENCE.</p>
	F	PERFORMANCE GUARANTEE	<p>PROVIDE PERFORMANCE GUARANTEE INCLUDING A WRITTEN COMMITMENT TO UNDERTAKE ALL CORRECTIONS REQUIRED TO MEET THE PERFORMANCE REQUIREMENTS NOTED IN THESE SPECIFICATIONS AT NO EXPENSE TO THE OWNER. LIGHT LEVELS MUST BE GUARANTEED TO NOT FALL BELOW TARGET LEVELS FOR WARRANTY PERIOD.</p>
	G	STRUCTURAL CALCULATIONS	<p>POLE STRUCTURAL CALCULATIONS AND FOUNDATION DESIGN SHOWING FOUNDATION SHAPE, DEPTH BACKFILL REQUIREMENTS, REBAR AND ANCHOR BOLTS (IF REQUIRED). POLE BASE REACTION FORCES SHALL BE SHOWN ON THE FOUNDATION DRAWING ALONG WITH SOIL BEARING PRESSURES. DESIGN MUST BE STAMPED BY A STRUCTURAL ENGINEER IN THE STATE OF NEW YORK, IF REQUIRED BY OWNER.</p>
	H	CONTROL & MONITORING SYSTEM	<p>MANUFACTURER OF THE CONTROL AND MONITORING SYSTEM SHALL PROVIDE WRITTEN DEFINITION AND SCHEMATICS FOR AUTOMATED CONTROL SYSTEM. THEY WILL ALSO PROVIDE TEN (10) REFERENCES OF CUSTOMERS CURRENTLY USING PROPOSED SYSTEM IN THE STATE OF NEW YORK.</p>
	I	ELECTRICAL DISTRIBUTION PLANS	<p>MANUFACTURER BIDDING AN ALTERNATE PRODUCT MUST INCLUDE A REVISED ELECTRICAL DISTRIBUTION PLAN INCLUDING CHANGES TO SERVICE ENTRANCE PANELS AND WIRE SIZING, SIGNED BY A LICENSED ELECTRICAL ENGINEER IN THE STATE OF NEW YORK.</p>
	J	WARRANTY	<p>PROVIDE WRITTEN WARRANTY INFORMATION INCLUDING ALL TERMS AND CONDITIONS. PROVIDE TEN (10) REFERENCES OF CUSTOMERS CURRENTLY UNDER SPECIFIED WARRANTY IN THE STATE OF NEW YORK.</p>

LIGHTING SYSTEM WITH LED LIGHT SOURCE
 WHITE PLAINS CITY SCHOOL DISTRICT
 HIGH SCHOOL UPGRADES AND TURF FIELD
 White Plains High School
 SED No.: 66-22-00-01 0-016-029

H2M

	K	PROJECT REFERENCE S	MANUFACTURER TO PROVIDE A LIST OF TEN (10) PROJECTS WHERE THE TECHNOLOGY AND SPECIFIC FIXTURE PROPOSED FOR THIS PROJECT HAS BEEN INSTALLED IN THE STATE OF NEW YORK. REFERENCE LIST WILL INCLUDE PROJECT NAME, PROJECT CITY, INSTALLATION DATE, AND IF REQUESTED, CONTACT NAME AND CONTACT PHONE NUMBER.
	L	PRODUCT INFORMATION	COMPLETE BILL OF MATERIAL AND CURRENT BROCHURES/CUT SHEETS FOR ALL PRODUCTS BEING PROVIDED.
	M	DELIVERY	MANUFACTURER SHALL SUPPLY AN EXPECTED DELIVERY TIMEFRAME FROM RECEIPT OF APPROVED SUBMITTALS AND COMPLETE ORDER INFORMATION.
	N	NON-COMPLIANCE	MANUFACTURER SHALL LIST ALL ITEMS THAT DO NOT COMPLY WITH THE SPECIFICATIONS. IF IN FULL COMPLIANCE, TAB MAY BE OMITTED.
	O	COST OF OWNERSHIP	DOCUMENT COST OF OWNERSHIP AS DEFINED IN THE SPECIFICATION. IDENTIFY ENERGY COSTS FOR OPERATING THE LUMINAIRES. MAINTENANCE COST FOR THE SYSTEM MUST BE INCLUDED. ALL COSTS SHOULD BE BASED ON 25 YEARS.
	P	ENVIRONMENTAL LIGHT CONTROL DESIGN	ENVIRONMENTAL GLARE IMPACT SCANS MUST BE SUBMITTED SHOWING THE MAXIMUM CANDELA FROM THE FIELD EDGE ON A MAP OF THE SURROUNDING AREA UNTIL 500 CANDELA OR LESS IS ACHIEVED.

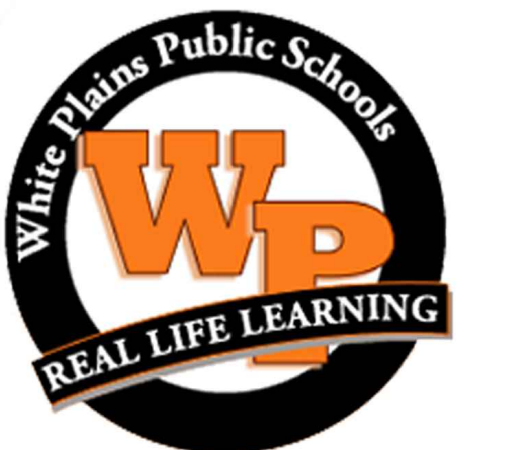
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CLIENT

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

CONTRACT G

GENERAL CONSTRUCTION

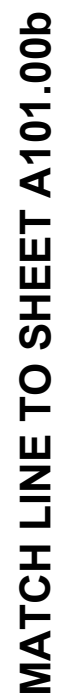
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SHEET TITLE

**FLOOR PLAN
FIRST FLOOR**

DRAWING No.

A 100.00b



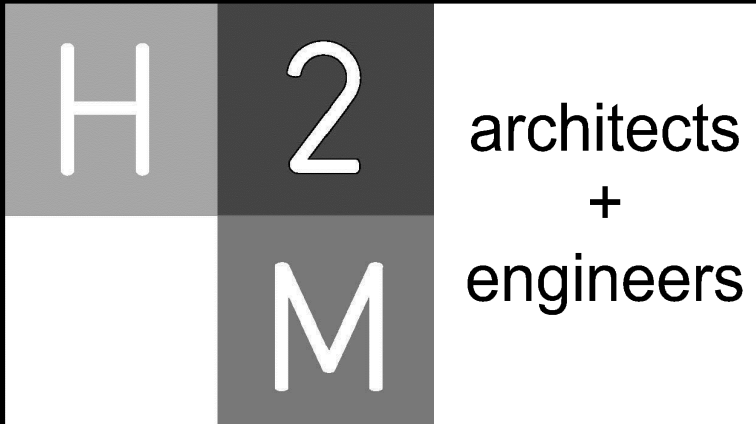
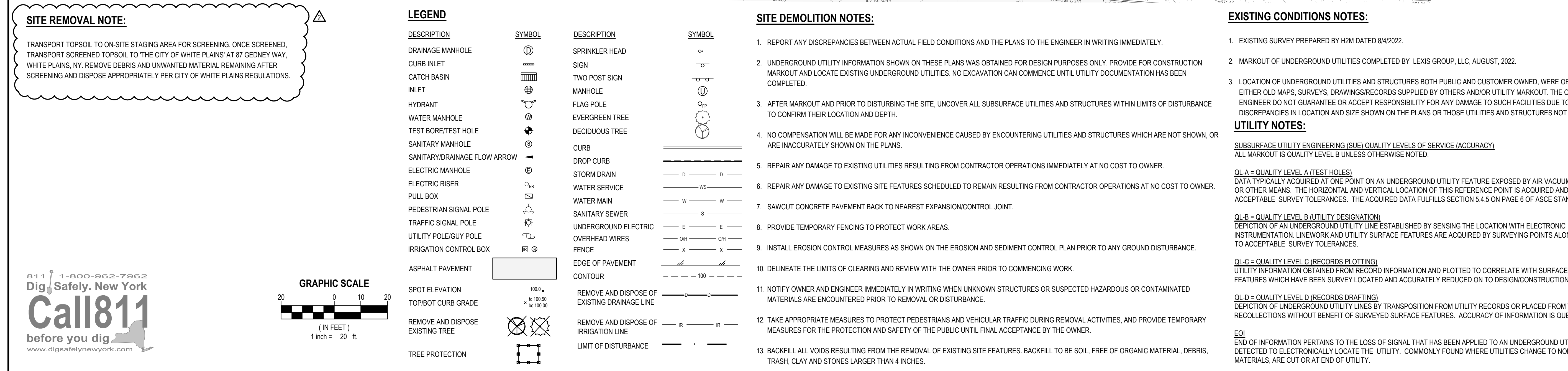
Existing First Floor Plan



Key Plan

SCALE: N.T.S.





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

CONSULTANTS:

[illegible]

*ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL.			
DESIGNED BY: KAK	DRAWN BY: NR	CHECKED BY: WJA	REVIEWED BY: SPC
PROJECT No.: WPSD 2206	DATE: AUGUST 2023	SCALE: AS SHOWN	

CLIENT

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

CONTRACT C
CIVIL AND SITE WORK

STATUS

FINAL BID SET

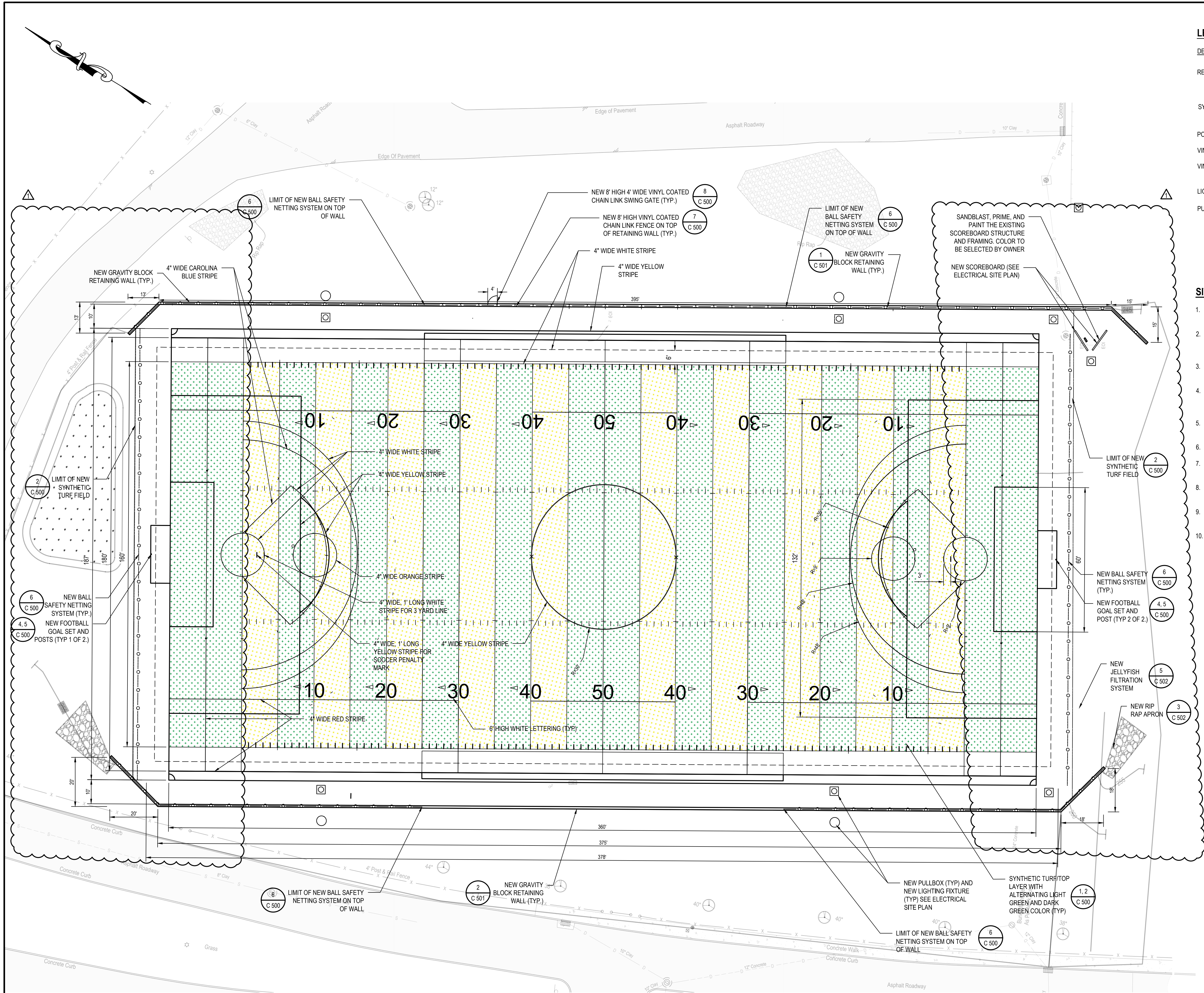
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EXISTING CONDITIONS AND SITE REMOVALS PLAN UPPER FIELD

DRAWING No.

CD 100.00

WVPSD (White Plains Central School District) - 1999 WVPSD 2206 - (High School) Librardes and Tuff Field 02-BM-CALPD/Can-does/cv/CD 100 Existing Conditions & Site Removals Plan dwg Last Modified: Aug 09, 2023 - 10:20am Plotted on: Aug 09, 2023 - 10:21am By: wackerman



LEGEND

DESCRIPTION

RETAINING WALL

SYNTHETIC TURF PLAYING FIELD

POST & NETTING

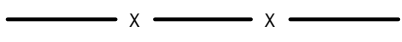
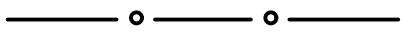
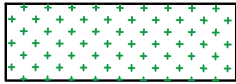
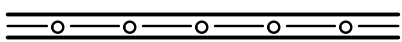
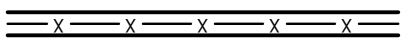
VINYL COATED CHAIN LINK FENCE

VINYL COATED CHAIN LINK GATE

LIGHT FIXTURE

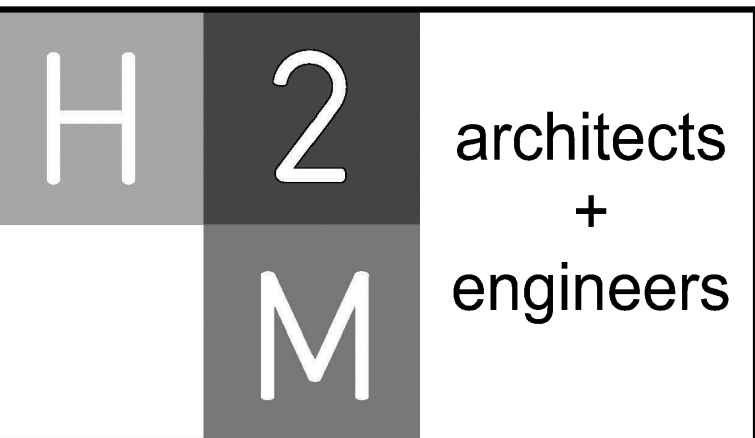
PULLBOX

SYMBOL



SITE PLAN NOTES:

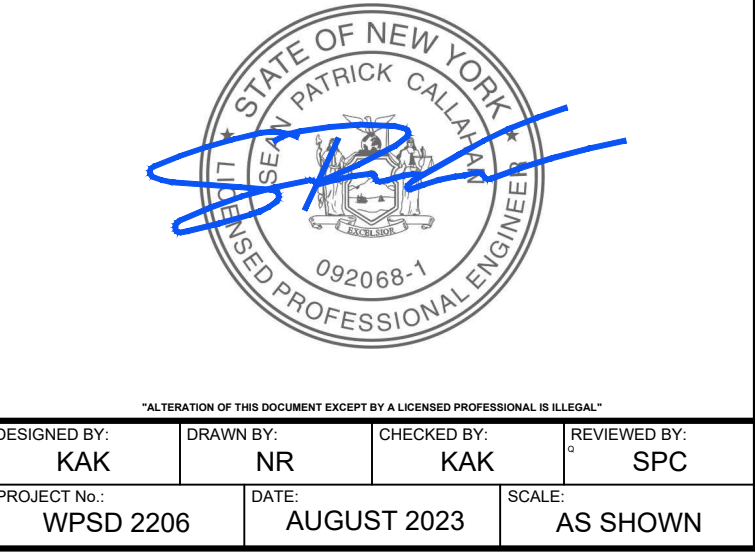
1. INSPECT THE SITE PRIOR TO SUBMISSION OF BIDS AND MAKE NO ADDITIONAL CLAIMS REGARDING SITE CONDITIONS THEREAFTER.
2. NOTIFY THE OWNER AND H2M (TELEPHONE 631-756-8000) AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF THE WORK. THE SAME NOTICE SHALL BE REQUIRED WHEN RESUMING WORK AFTER ANY STOPPAGE OR DELAY.
3. COMPLETE ALL SURVEY AND STAKEOUT AS REQUIRED TO PROPERLY COMPLETE THE WORK.
4. 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.



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Purchase, NY 10577
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CONSULTANTS:

MARK	DATE	DESCRIPTION
-	07-24-2023	FINAL BID SET
1	08-07-2023	ADDENDUM NO. 1
2	08-09-2023	ADDENDUM NO. 2



CLIENT
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

**CONTRACT C
CIVIL AND SITE WORK**

STATUS

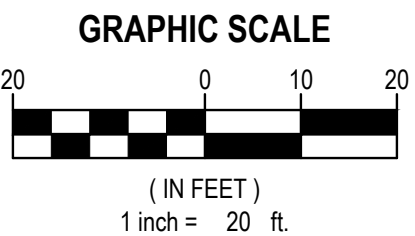
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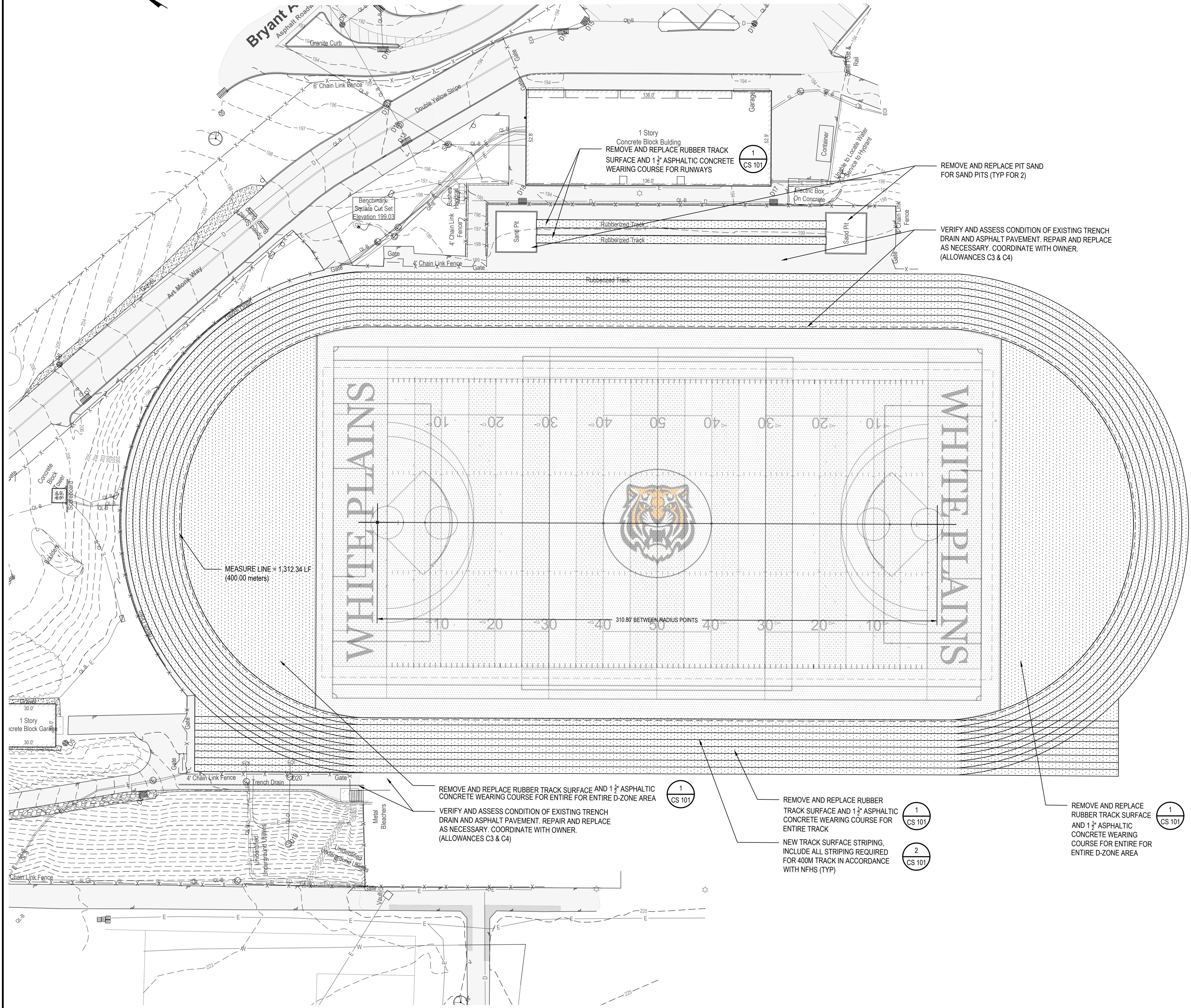
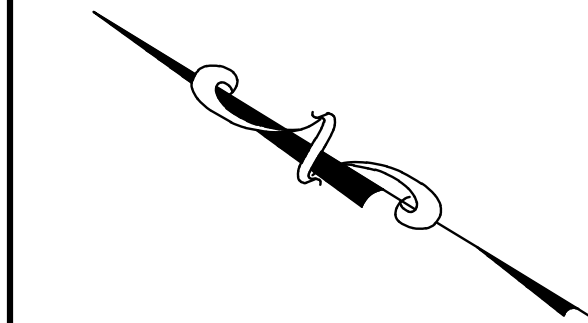
SHEET TITLE

**DIMENSIONAL SITE PLAN
UPPER FIELD**

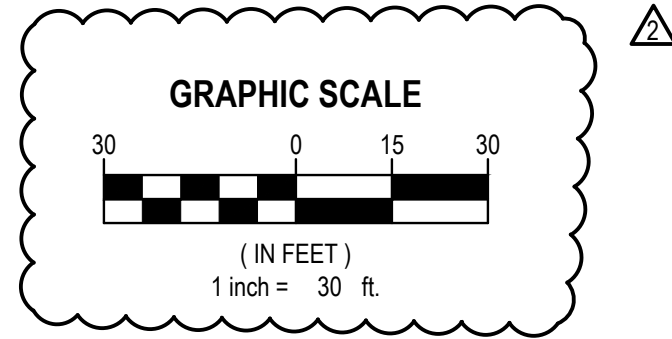
DRAWING No.

CS 100.00





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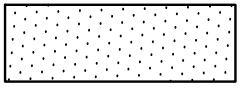


LEGEND

DESCRIPTION

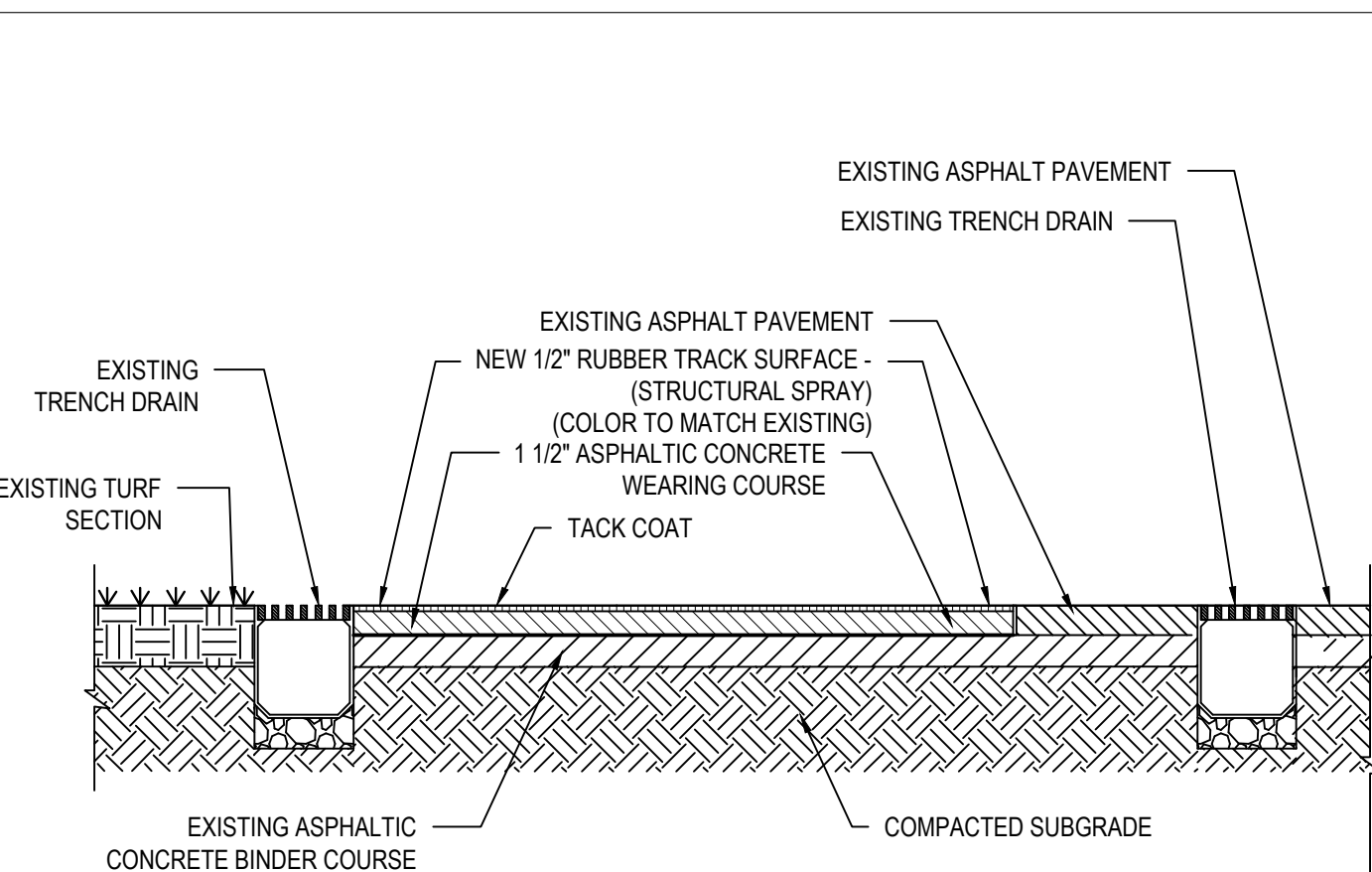
RUBBER TRACK SURFACING

SYMBOL



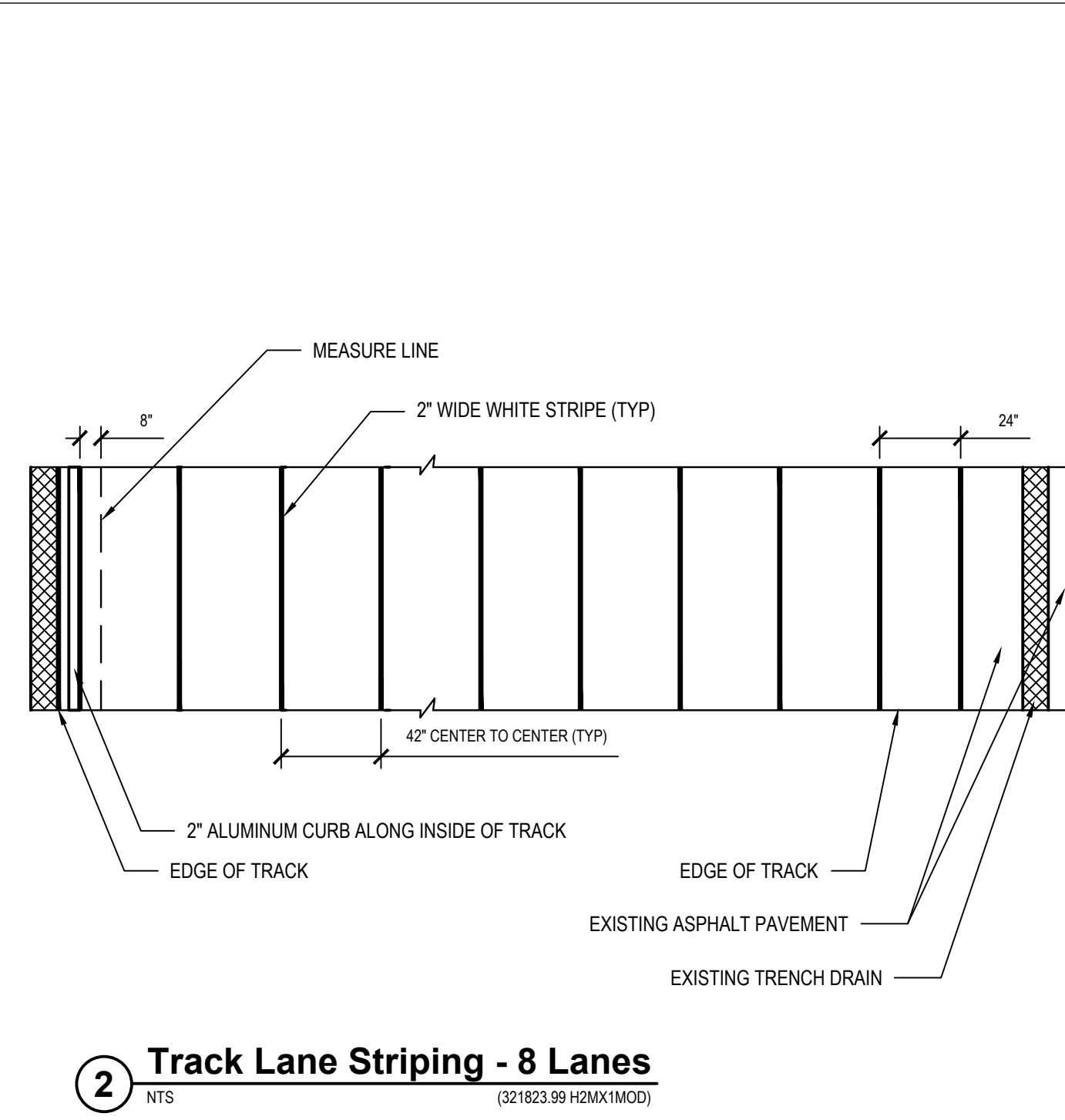
SITE PLAN NOTES:

1. INSPECT THE SITE PRIOR TO SUBMISSION OF BIDS AND MAKE NO ADDITIONAL CLAIMS REGARDING SITE CONDITIONS THEREAFTER.
2. 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.
3. COMPLETE ALL SURVEY AND STAKEOUT AS REQUIRED TO PROPERLY COMPLETE THE WORK.
4. 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.
11. REMOVE ALL ASPHALT FROM EXISTING CASTINGS.
12. SEAL ALL JOINTS BETWEEN NEW ASPHALT AND EXISTING ASPHALT WITH HOT ASPHALT CEMENT.
13. ALL EVENTS AND EQUIPMENT ARE PER NFHS RECOMMENDATIONS AND REQUIREMENTS.
14. LAY OUT AND MACHINE SPRAY ALL LANE LINES AND EVENT MARKINGS. CONTRACTOR TO COORDINATE LIST OF EVENTS WITH SCHOOL DISTRICT AND TRACK AND FIELD COACHING STAFF PRIOR TO LAYOUT OF LANE LINES AND EVENT MARKINGS.
15. 2" ALUMINUM TRACK CURBING TO BE SET ON INSIDE LANE LINE OF TRACK. TRACK CURBING TO INCLUDE REMOVABLE SECTIONS AT STEEPLECHASE EVENT AS REQUIRED.



- NOTES:**
1. SYNTHETIC RUBBER TRACK SURFACE AS MANUFACTURED BY CRAFTCO, INC.

1 Running Track Section
NTS (322823.33 H2MX1) MOD



2 Track Lane Striping - 8 Lanes
NTS (321823.99 H2MX1) MOD

H2M

architects
+
engineers

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

CONSULTANTS:		

MARK	DATE	DESCRIPTION
-	07-24-2023	FINAL BID SET
1	08-07-2023	ADDENDUM NO. 1
2	08-09-2023	ADDENDUM NO. 2

"ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL."

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
NR	NR	KAK	SPC
PROJECT NO:	DATE:	SCALE:	
WPSD 2206	AUGUST 2023	AS SHOWN	

CLIENT

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

**CONTRACT C
CIVIL AND SITE WORK**

STATUS

FINAL BID SET

SHEET TITLE

**SITE IMPROVEMENTS PLAN
RUNNING TRACK
ADD ALTERNATE**

DRAWING No.

CS 101.00

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

CONSULTANTS:

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2	08-09-2023	ADDENDUM NO. 2



DESIGNED BY:	NR	DRAWN BY:	NR	CHECKED BY:	KAK	REVIEWED BY:	MRM
PROJECT NO.:	WPSPD 2206	DATE:	AUGUST 2023	SCALE:	AS SHOWN		

CLIENT
White Plains City School District

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



**550 North Street
White Plains, NY 10605**

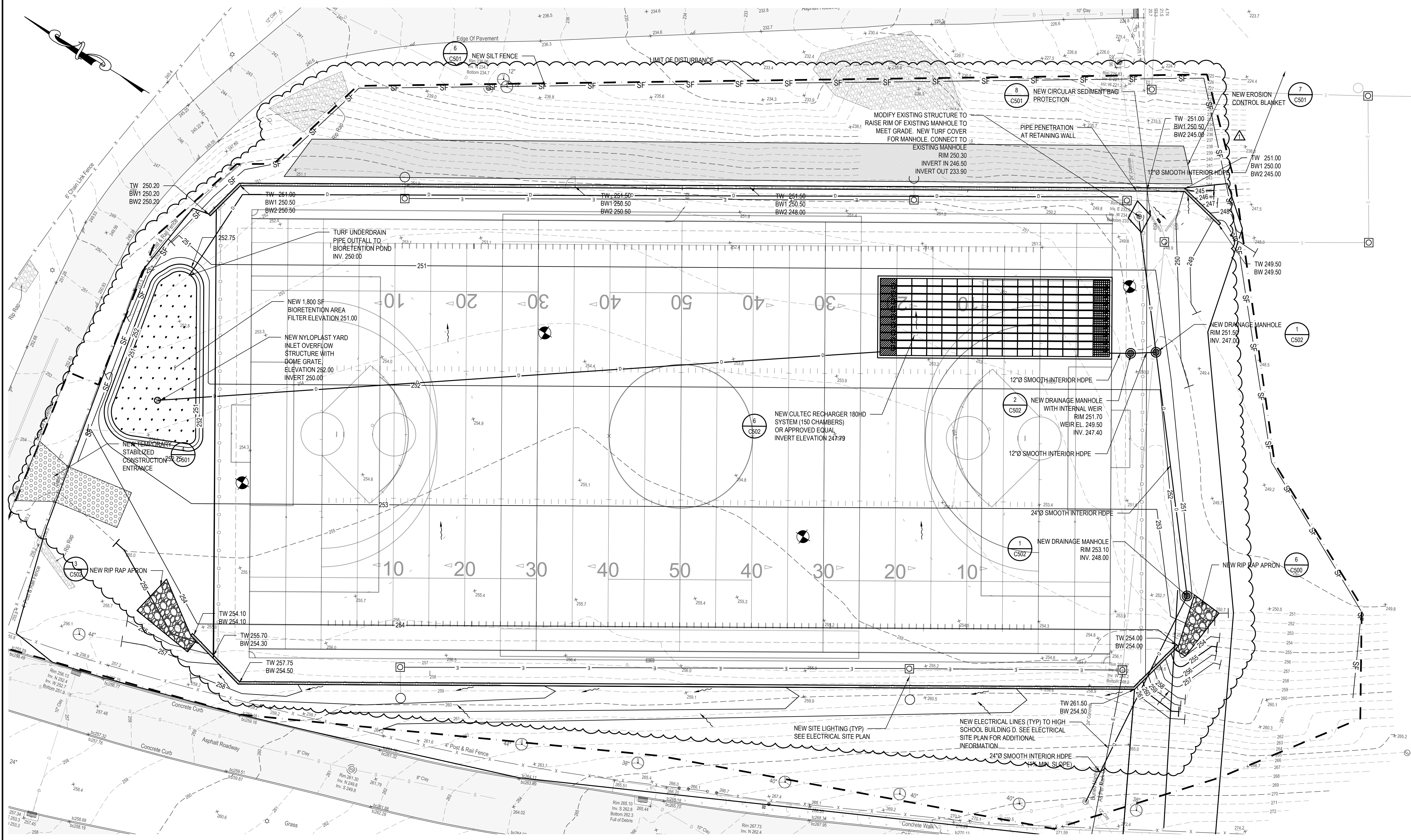
SED No. 66-22-00-01-0-16-029

CONTRACT
**CONTRACT C
CIVIL AND SITE WORK**

STATUS
FINAL BID SET

SHEET TITLE
**GRADING & DRAINAGE AND
EROSION & SEDIMENT CONTROL
PLAN
UPPER FIELD**

DRAWING No.
C 100.00



GRADING AND DRAINAGE NOTES:

- FOR NEW CONSTRUCTION THAT MEETS EXISTING CONDITIONS, ABUTTING SURFACES SHALL BE FLUSH AND ALIGNED.
- ADJUST ALL EXISTING CASTINGS AND VALVE COVERS TO MEET PROPOSED GRADE.
- CONSTRUCTION DEBRIS AND EXCESS SOIL SHALL BE REMOVED AND LEGALLY DISPOSED OFF SITE.
- UNSATURABLE SOILS ENCOUNTERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER IMMEDIATELY IN WRITING BEFORE REMOVAL OR DISTURBANCE.

PIPE MATERIAL SPECIFICATIONS:

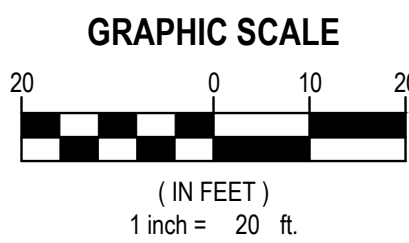
- LINEAR LEACHING CHAMBERS TO MANHOLE CONNECTION: 12" Ø SMOOTH INTERIOR HDPE
- MANHOLE TO HYDRODYNAMIC SEPARATOR CONNECTION: 12" Ø SMOOTH INTERIOR HDPE
- MANHOLE TO MANHOLE CONNECTION: 24" Ø SMOOTH INTERIOR HDPE

EROSION CONTROL NOTES:

- DURING THE COURSE OF CONSTRUCTION, EROSION AND SEDIMENT CONTROL MEASURES ARE NECESSARY TO PREVENT THE TRANSPORT OF SEDIMENT TO UNDISTURBED AREAS, PONDS, WATER COURSES, DRAINAGE SYSTEMS, RECHARGE BASINS, AND ROADS. THE MINIMUM EROSION CONTROL MEASURES REQUIRED ARE INDICATED ON THIS PLAN. IN ADDITION, THE FOLLOWING GENERAL CONDITIONS SHALL BE OBSERVED:
 - EXISTING VEGETATION SCHEDULED TO REMAIN SHALL BE PROTECTED AND REMAIN UNDISTURBED.
 - INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AS REQUIRED TO PREVENT THE INCIDENTAL DISCHARGE OF SEDIMENT FROM THE SITE.
- SPECIFIC METHODS AND MATERIALS EMPLOYED IN THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL MEASURES MUST CONFORM TO THE LATEST EDITION OF THE "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL".
- INSTALL PROPRIETARY EROSION AND SEDIMENT CONTROL PRODUCTS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
- ADJUST EROSION AND SEDIMENT CONTROL MEASURES TO ACCOMMODATE CONSTRUCTION PHASING TO MAINTAIN EFFECTIVENESS OF EROSION AND SEDIMENT CONTROL MEASURES.
- PROTECT EXISTING DRAINAGE INLETS WITHIN THE PROJECT LIMITS AND NEW DRAINAGE INLETS INSTALLED AS PART OF THIS PROJECT FROM SEDIMENT INTRUSION.

- PERFORM INSPECTION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES ON A WEEKLY BASIS AND AFTER HEAVY OR PROLONGED STORMS. MAINTENANCE MEASURES INCLUDE, BUT ARE NOT LIMITED TO, CLEANING AND REPAIR OF ALL EROSION AND SEDIMENT CONTROL MEASURES.
- UTILIZE APPROPRIATE MEANS TO CONTROL DUST DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO APPLYING WATER TO BARE SOIL SURFACES.
- MAINTAIN THE STABILIZED CONSTRUCTION ENTRANCE TO PREVENT SOIL AND LOOSE DEBRIS FROM BEING TRACKED ONTO LOCAL ROADS. MAINTAIN THE CONSTRUCTION ENTRANCE WEEKLY UNTIL THE SITE IS PERMANENTLY STABILIZED.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED. AFTER PERMANENT STABILIZATION, REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND ALL ACCUMULATED SEDIMENT AND DEBRIS FROM THE SITE AND DRAINAGE STRUCTURES.

TOTAL LAND DISTURBANCE = 3.18 ACRES



STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

NOTES:

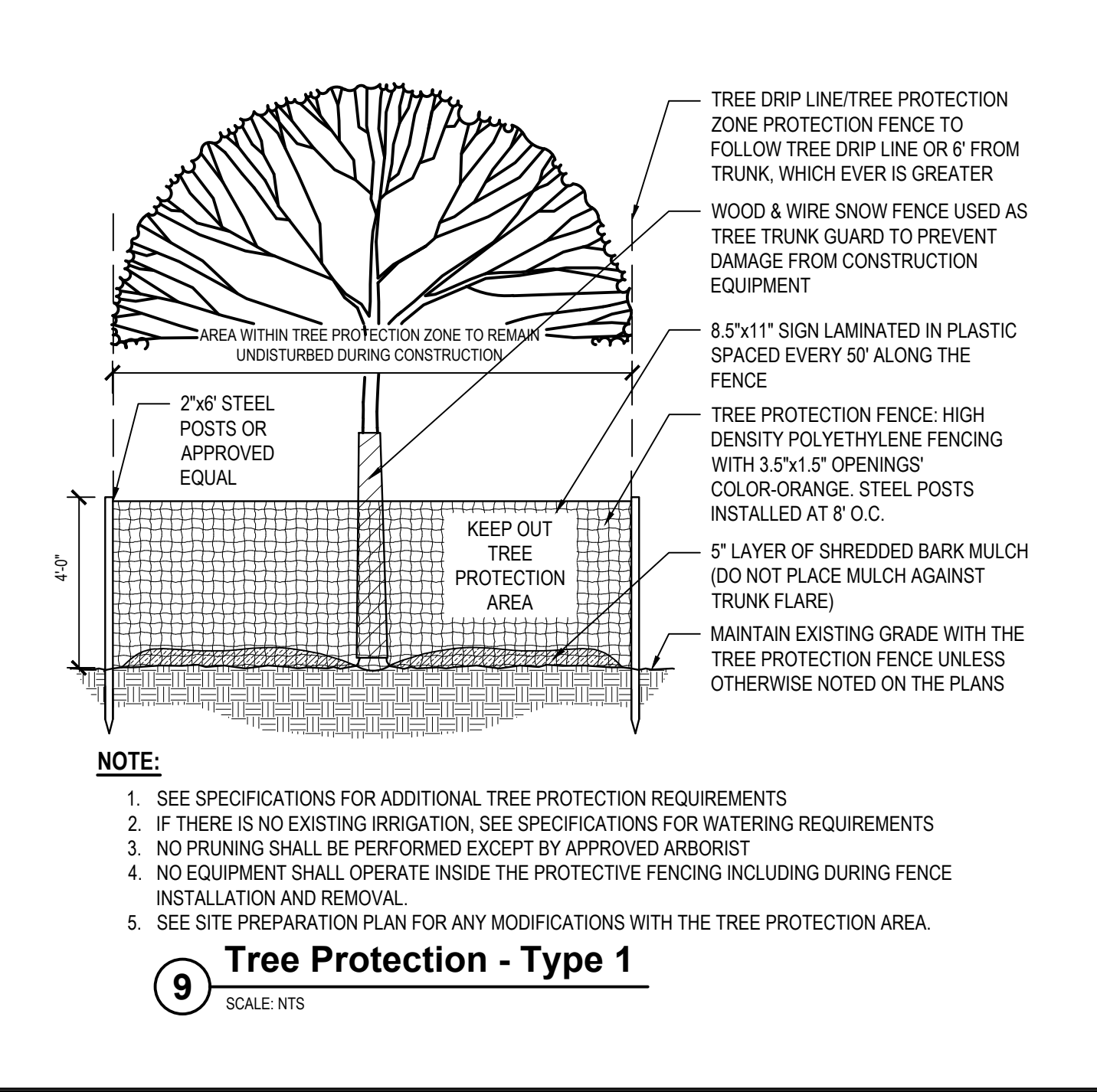
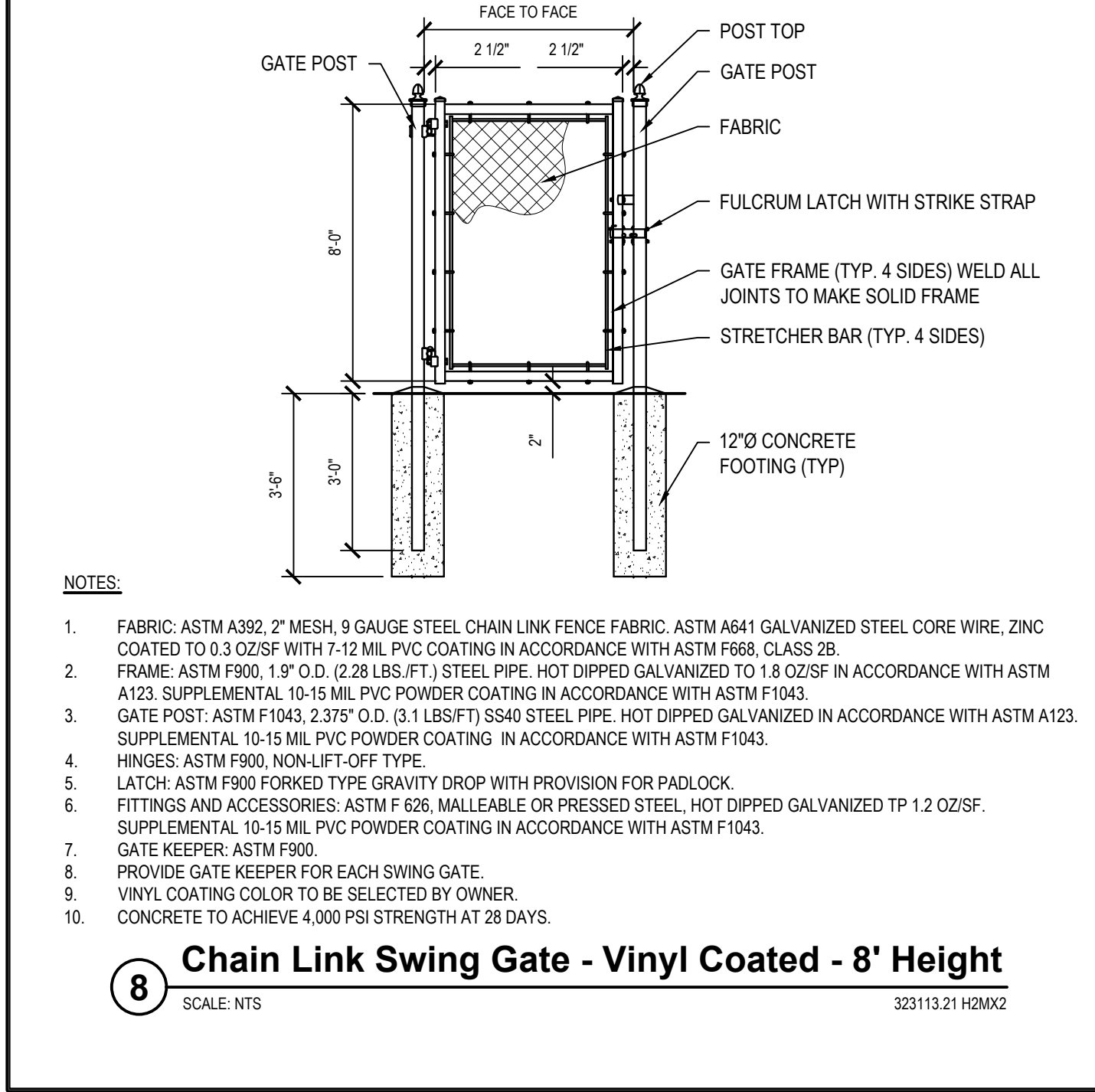
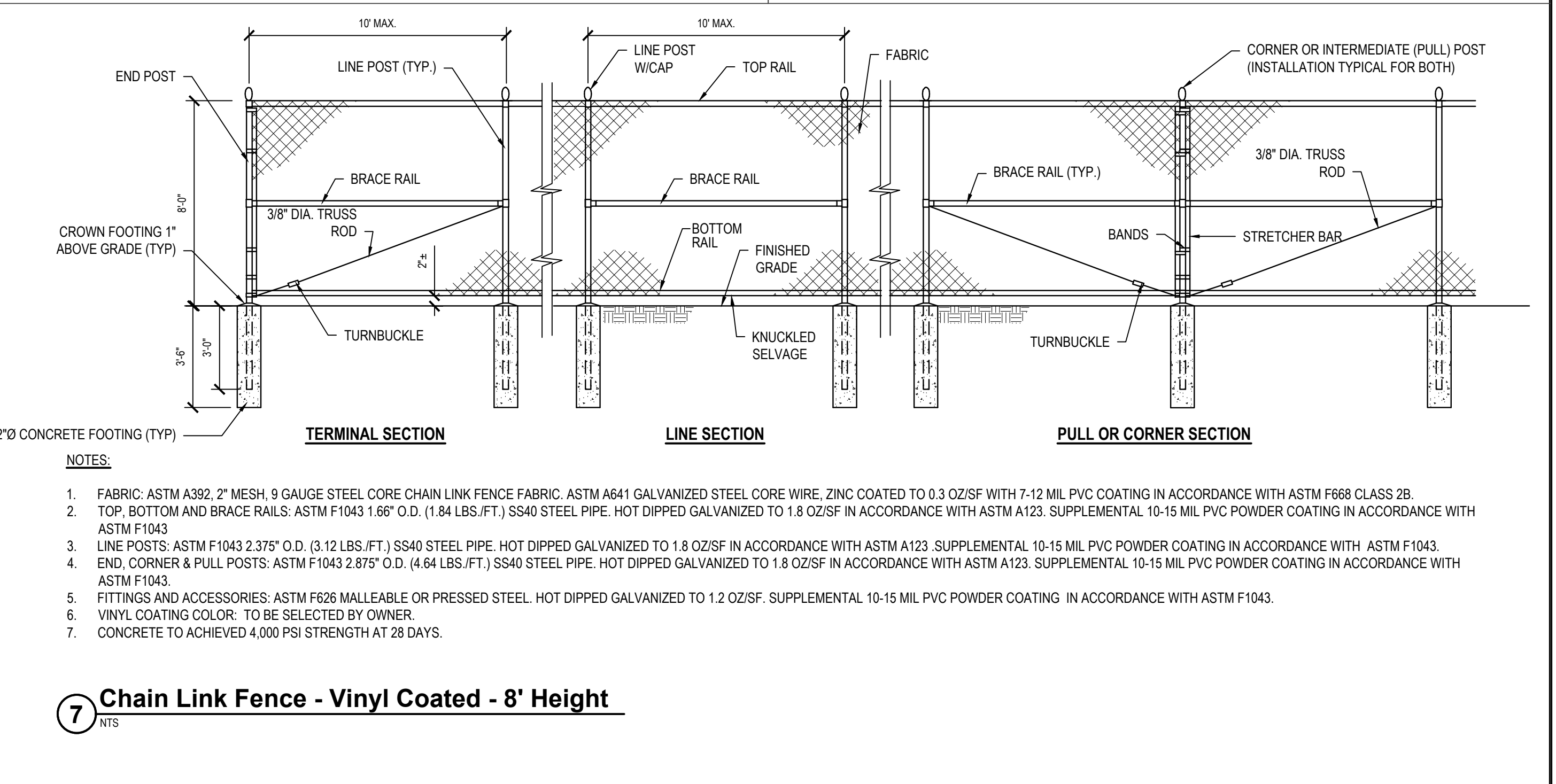
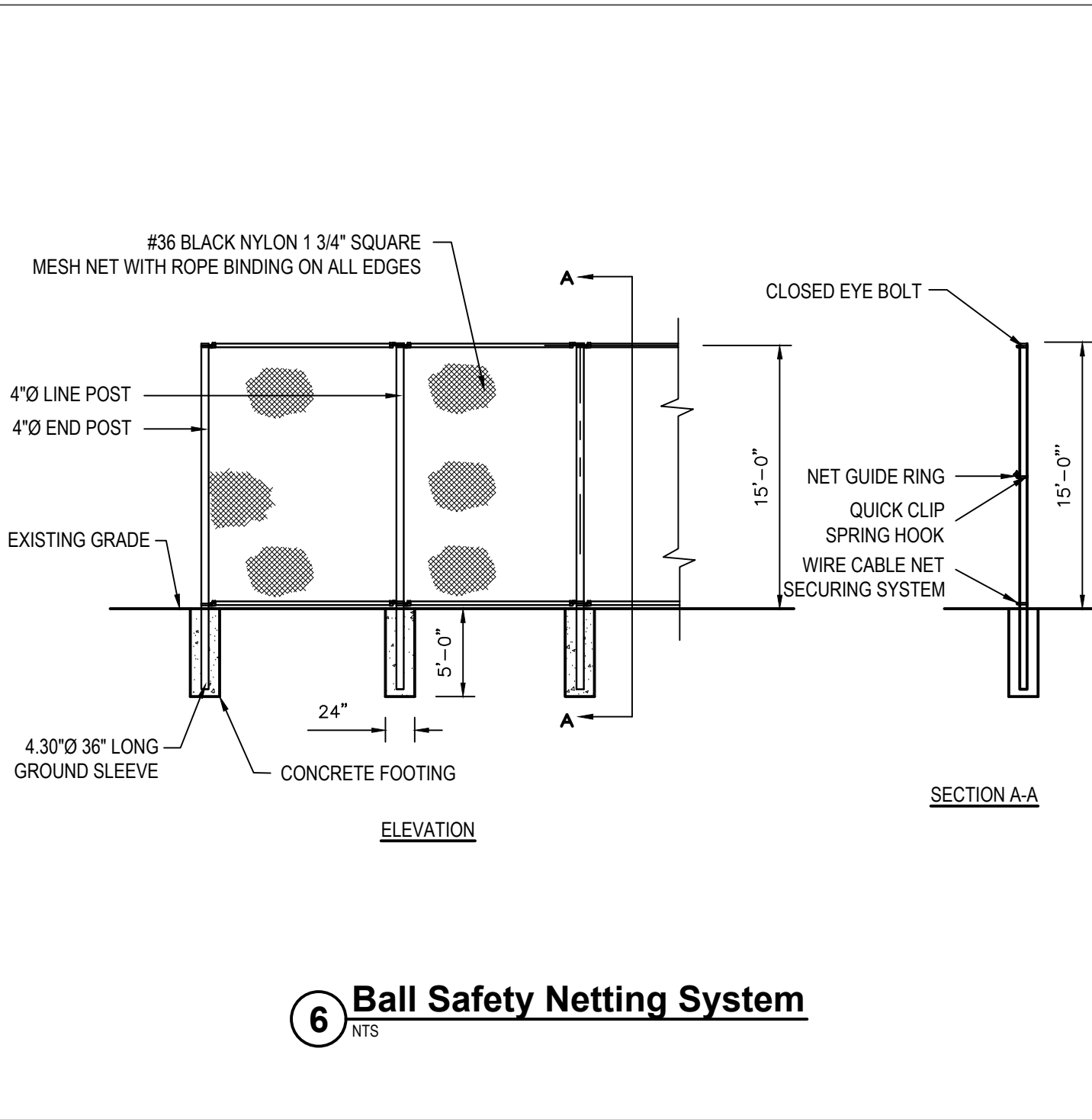
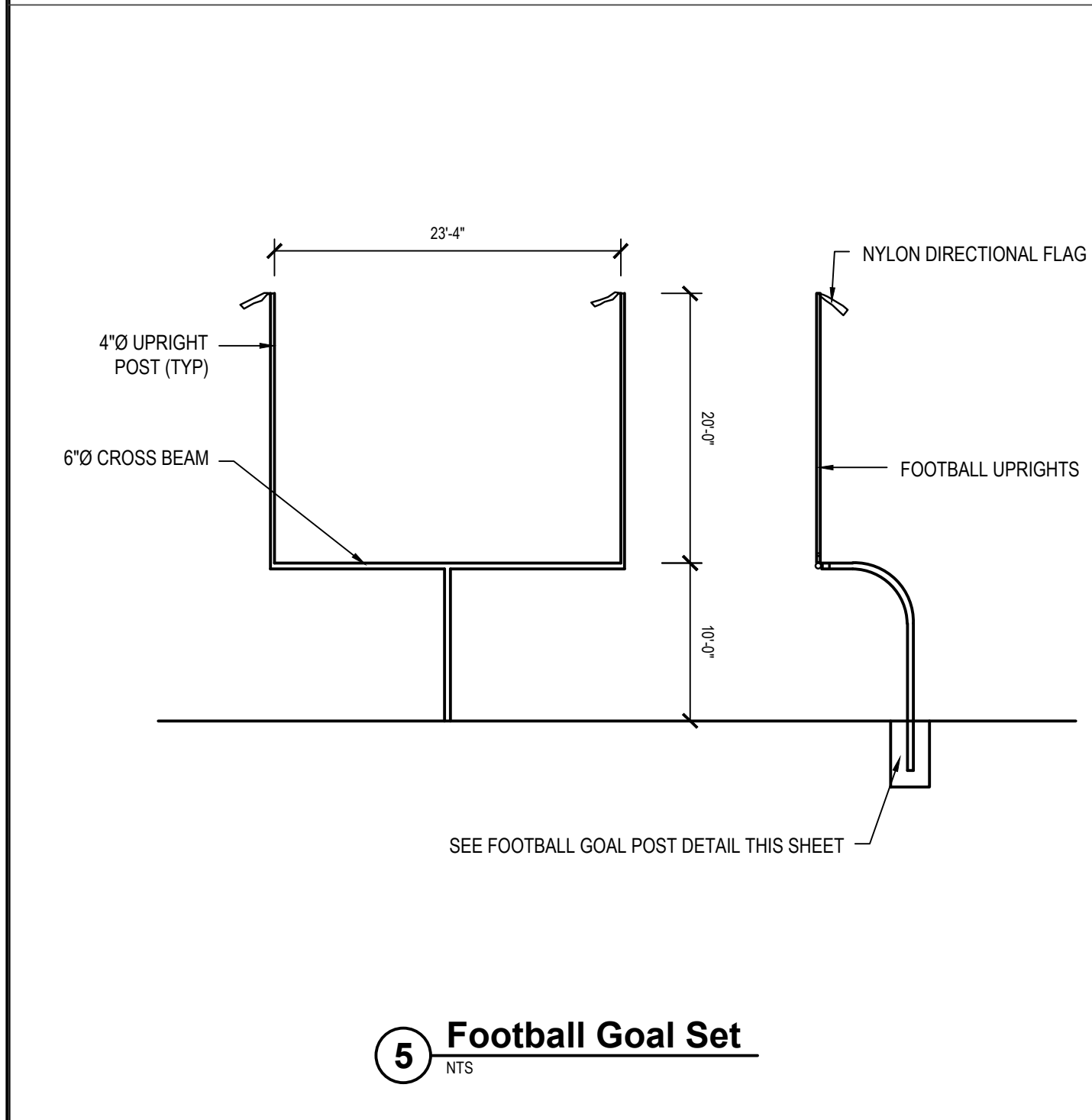
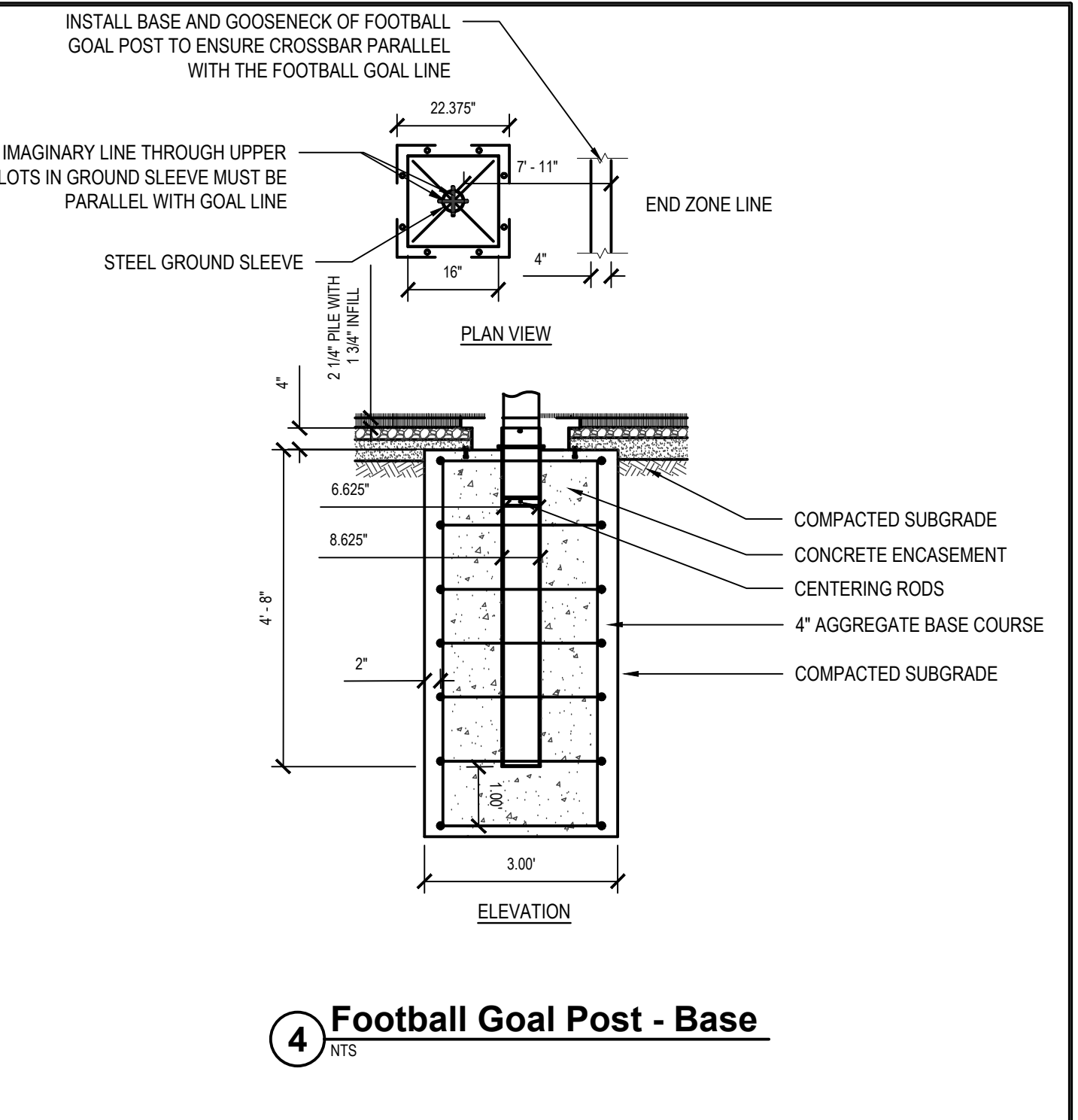
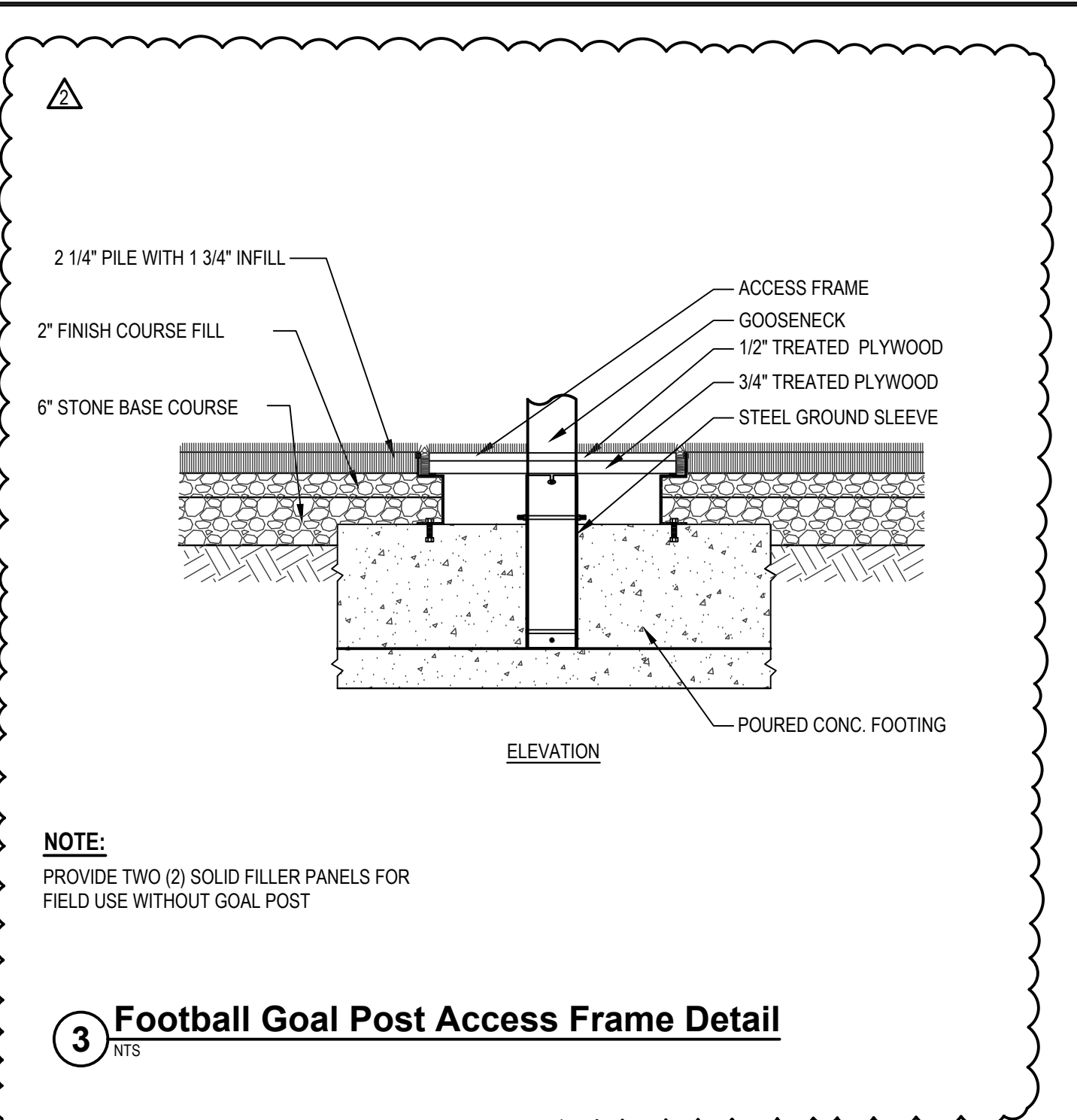
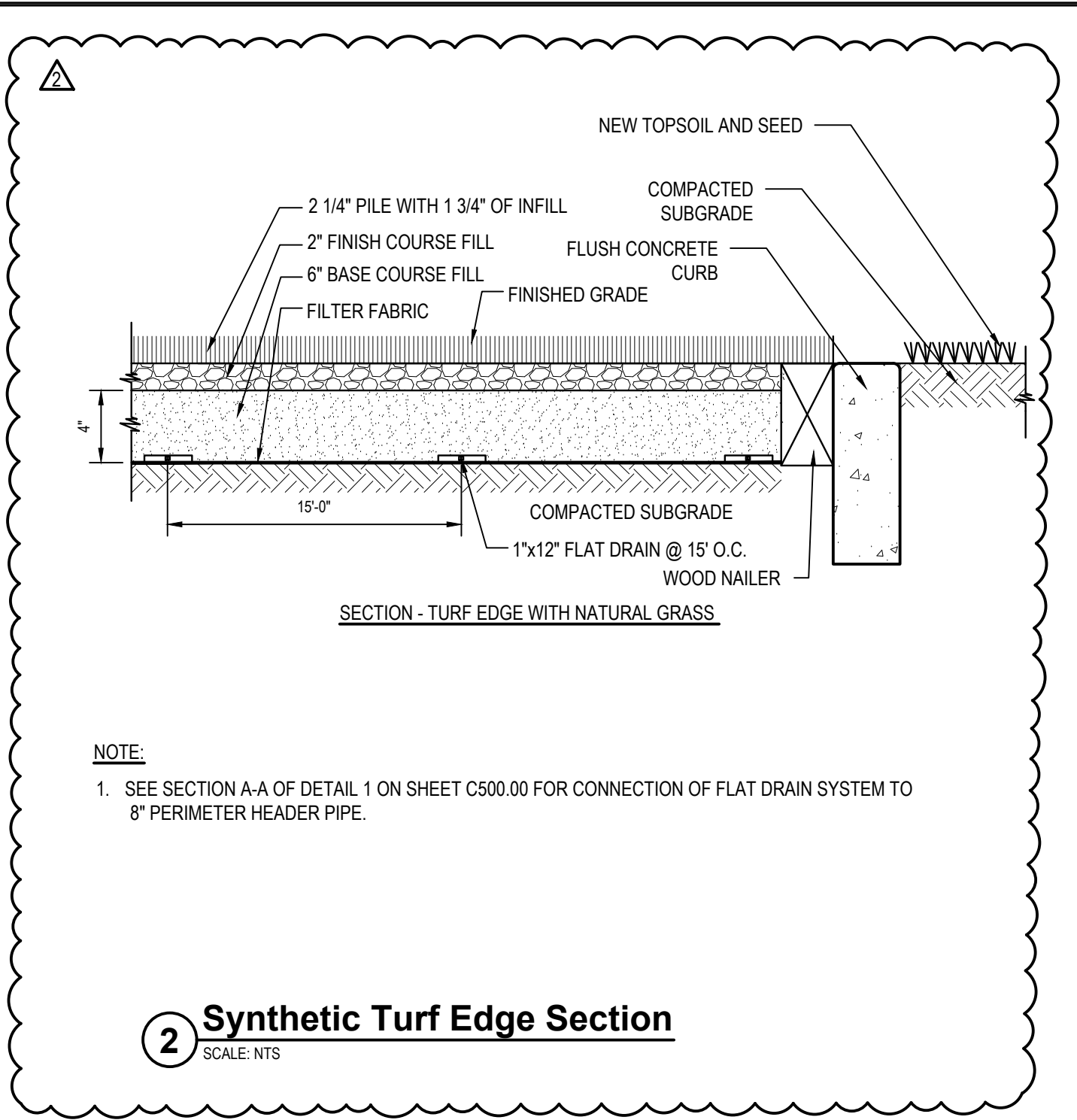
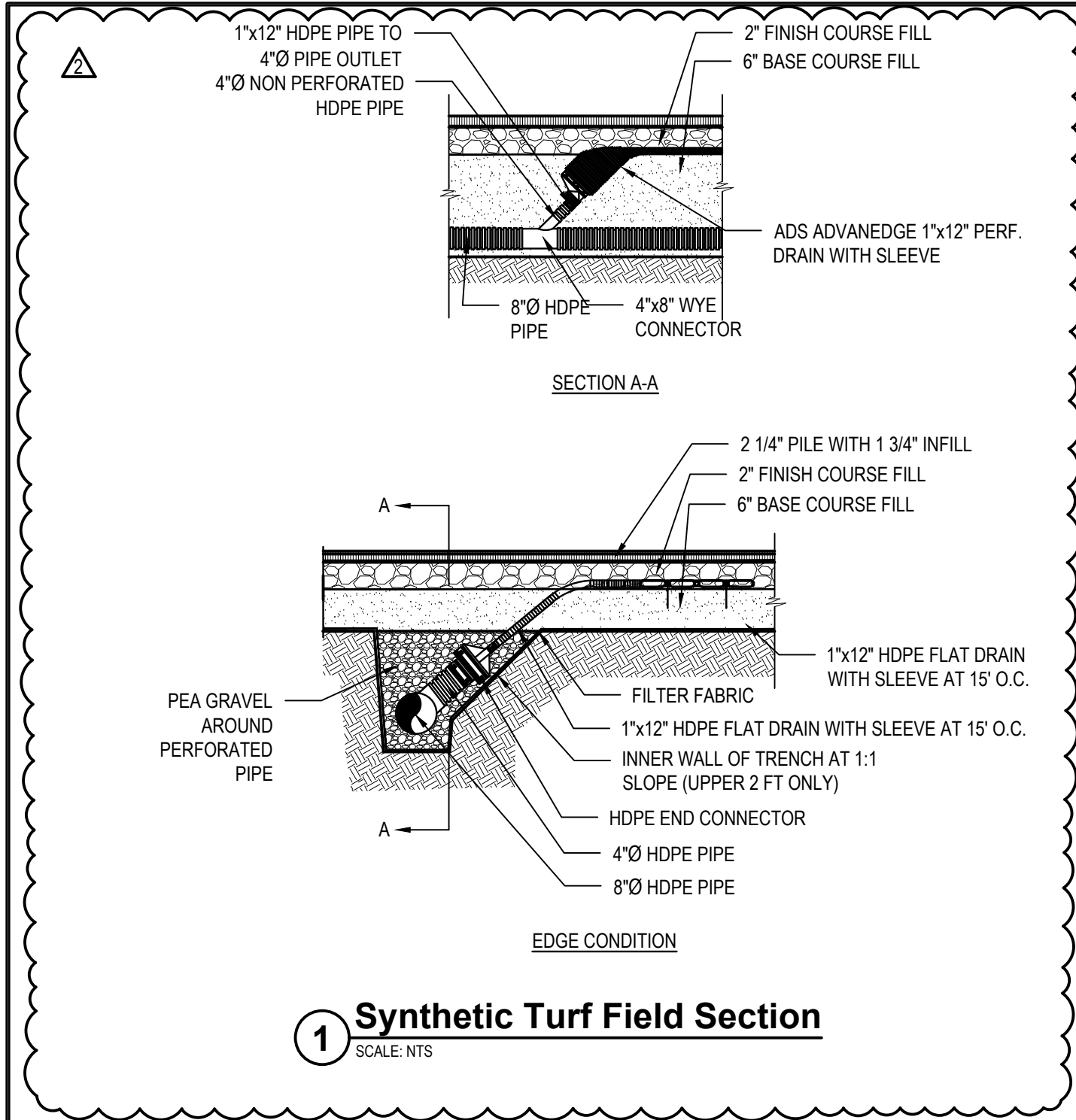
- PURSUANT TO THE REQUIREMENTS OF SPDES GENERAL PERMIT FOR CONSTRUCTION ACTIVITY GP-0-20-001 ESTABLISHED BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN PREPARED FOR THIS PROJECT. ADHERE TO AND IMPLEMENT ALL REQUIREMENTS OF THE SWPPP AND EROSION AND SEDIMENT CONTROL PLAN.
- REVIEW THE SWPPP AND SIGN IN THE LOCATION SHOWN STATING THAT ALL WORK PERTAINING TO EROSION AND SEDIMENT CONTROL WILL BE PERFORMED WITHIN REQUIREMENTS OF THE SWPPP AND EROSION AND SEDIMENT CONTROL PLAN.
- THE OWNER SHALL PROVIDE A QUALIFIED INSPECTOR WHO WILL PERFORM WEEKLY INSPECTIONS AT THE CONSTRUCTION SITE. THE QUALIFIED INSPECTOR SHALL MEET THE REQUIREMENTS OUTLINED IN SPDES GENERAL PERMIT FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITY (GP-0-20-001). IF THE INSPECTIONS FIND ANY DEVIATIONS FROM THE SWPPP OR THE EROSION AND SEDIMENT CONTROL PLAN IT WILL BE NOTED. THE CONTRACTOR WILL HAVE 7 DAYS TO CORRECT ANY DEVIATIONS SO THAT IT COMPLIES WITH THE REQUIREMENTS OF THE SWPPP AND OR EROSION AND SEDIMENT CONTROL PLAN. IN THE EVENT THAT MORE THAN 5 ACRES OF SOIL IS DISTURBED AT ANY TIME, 2 WEEKLY INSPECTIONS WILL BE PERFORMED.

GRADING AND DRAINAGE LEGEND

DESCRIPTION	SYMBOL
SPOT ELEVATION	121.50
TOP AND BOTTOM CURB ELEVATION	TC140.00 BC139.50
MAJOR CONTOUR	240
MINOR CONTOUR	241
BORING / TEST HOLE LOCATION	
RETAINING WALL	
FIELD INLET	
DRAINAGE MANHOLE	
FLOW ARROW	
DRAINAGE LINE	D
ELECTRIC LINE	E
WATER LINE	W
WATER SERVICE LINE	WS
NEW RIP RAP APRON	

EROSION CONTROL LEGEND

DESCRIPTION	SYMBOL
NEW SILT FENCE	SF
LIMIT OF DISTURBANCE	
NEW INLET SEDIMENT BAG PROTECTION	
NEW STABILIZED CONSTRUCTION ENTRANCE	
NEW EROSION CONTROL BLANKET	



H2M

architects
+
engineers

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2	08-09-2023	ADDENDUM NO. 2

LANDSCAPE ARCHITECT

KEITH ADAM KATY

STATE OF NEW YORK

No. 001951

Ken Keltai

DESIGNED BY: NR
PROJECT NO: WPSD 2206

DRAWN BY: NR
DATE: AUGUST 2023

CHECKED BY: KAK
SCALE: AS SHOWN

REVIEWED BY: MRM

CLIENT

White Plains City School District

WHITE PLAINS HIGH SCHOOL UPGRADES AND TURF FIELD

White Plains Public School

WP

REAL LIFE LEARNING

550 North Street
White Plains, NY 10605

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

CONTRACT

CONTRACT C
CIVIL AND SITE WORK

STATUS

FINAL BID SET

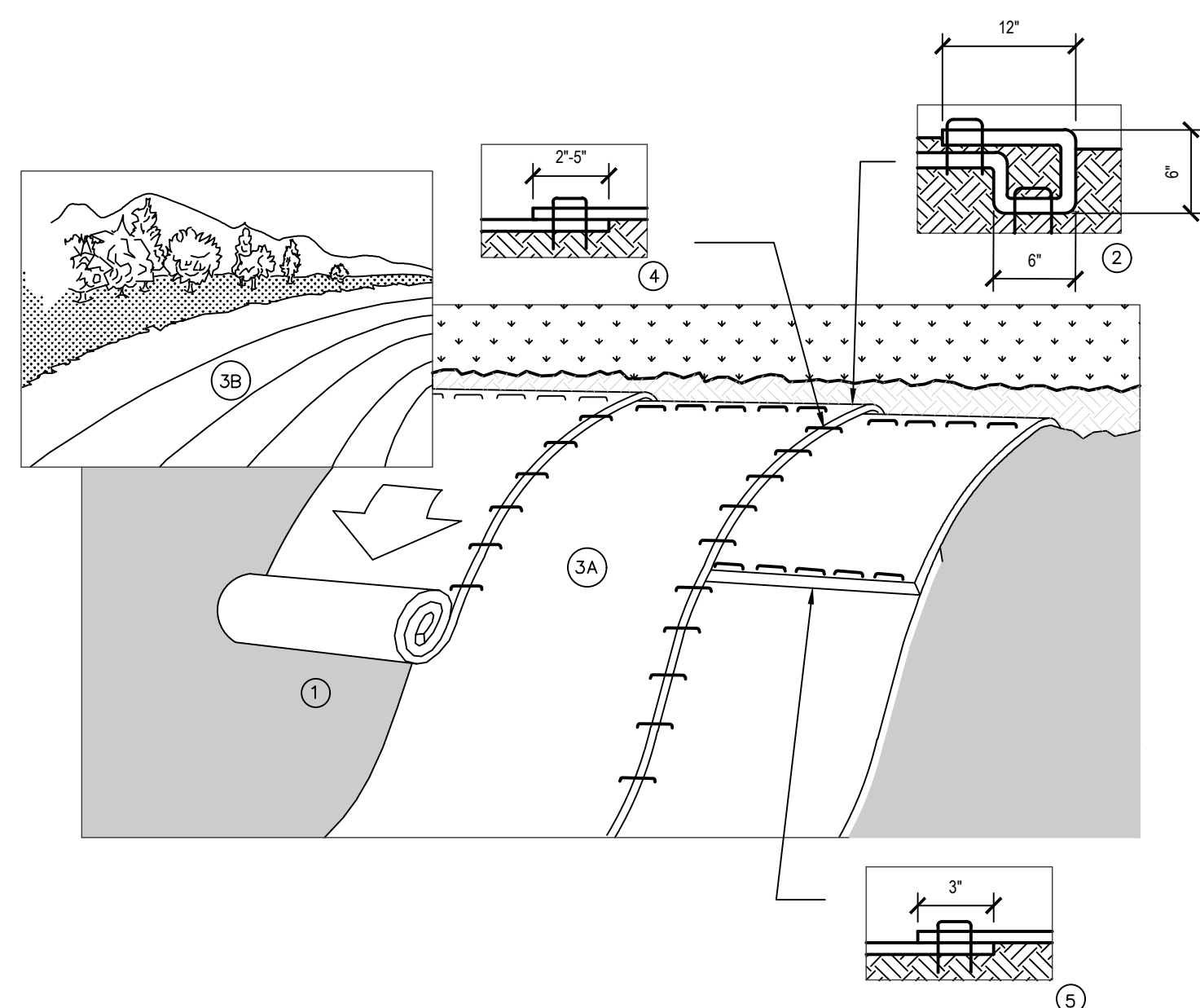
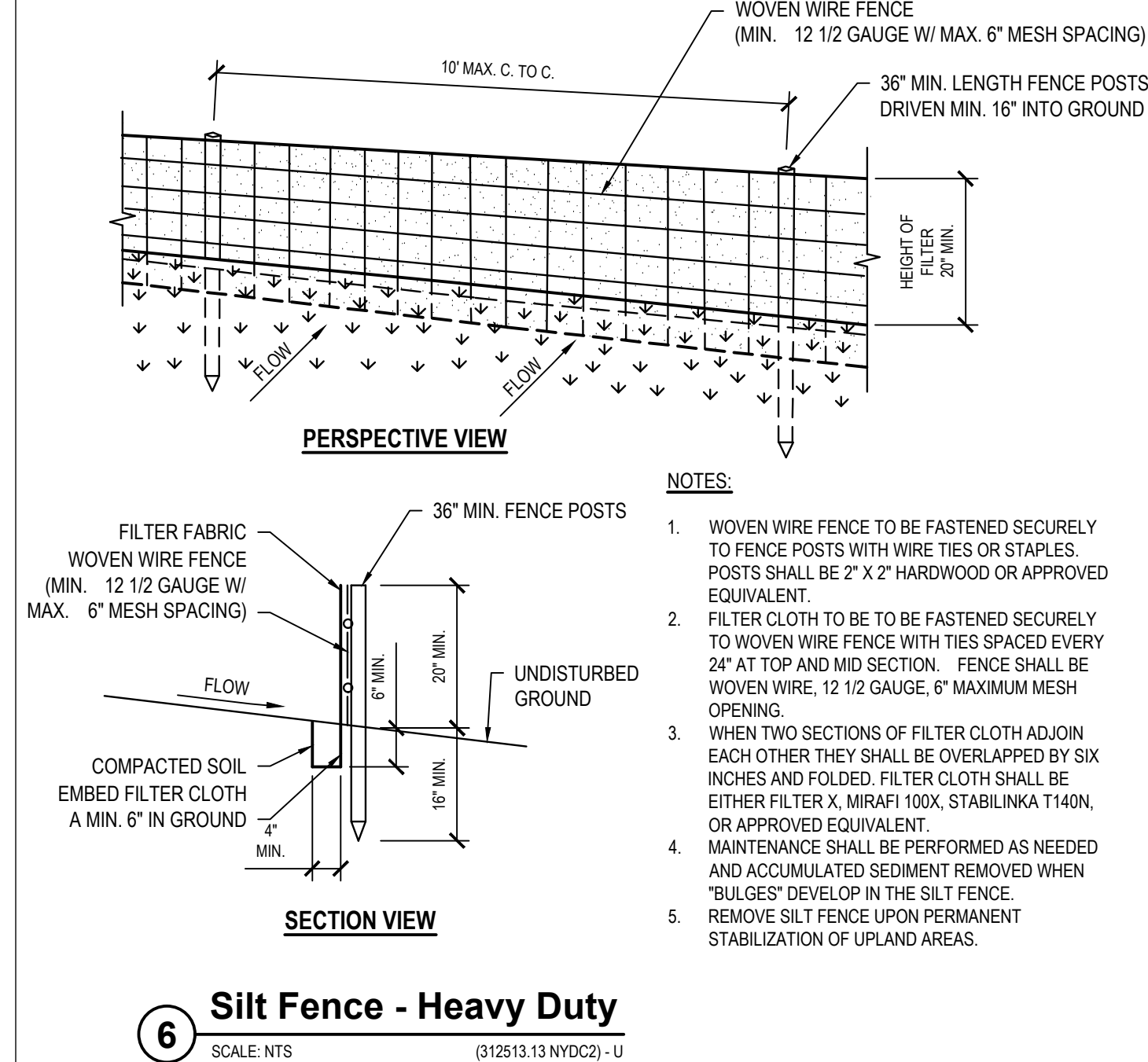
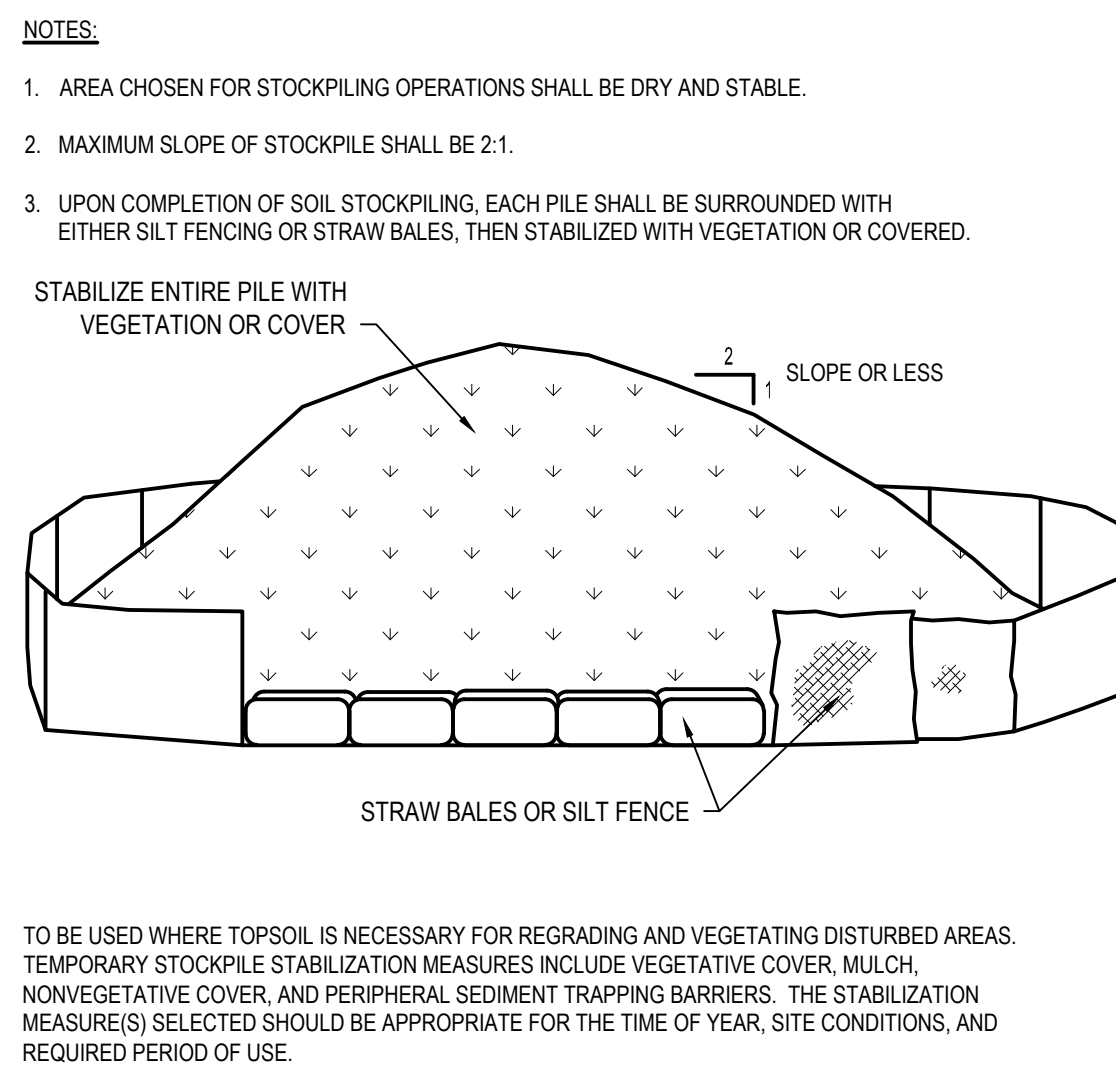
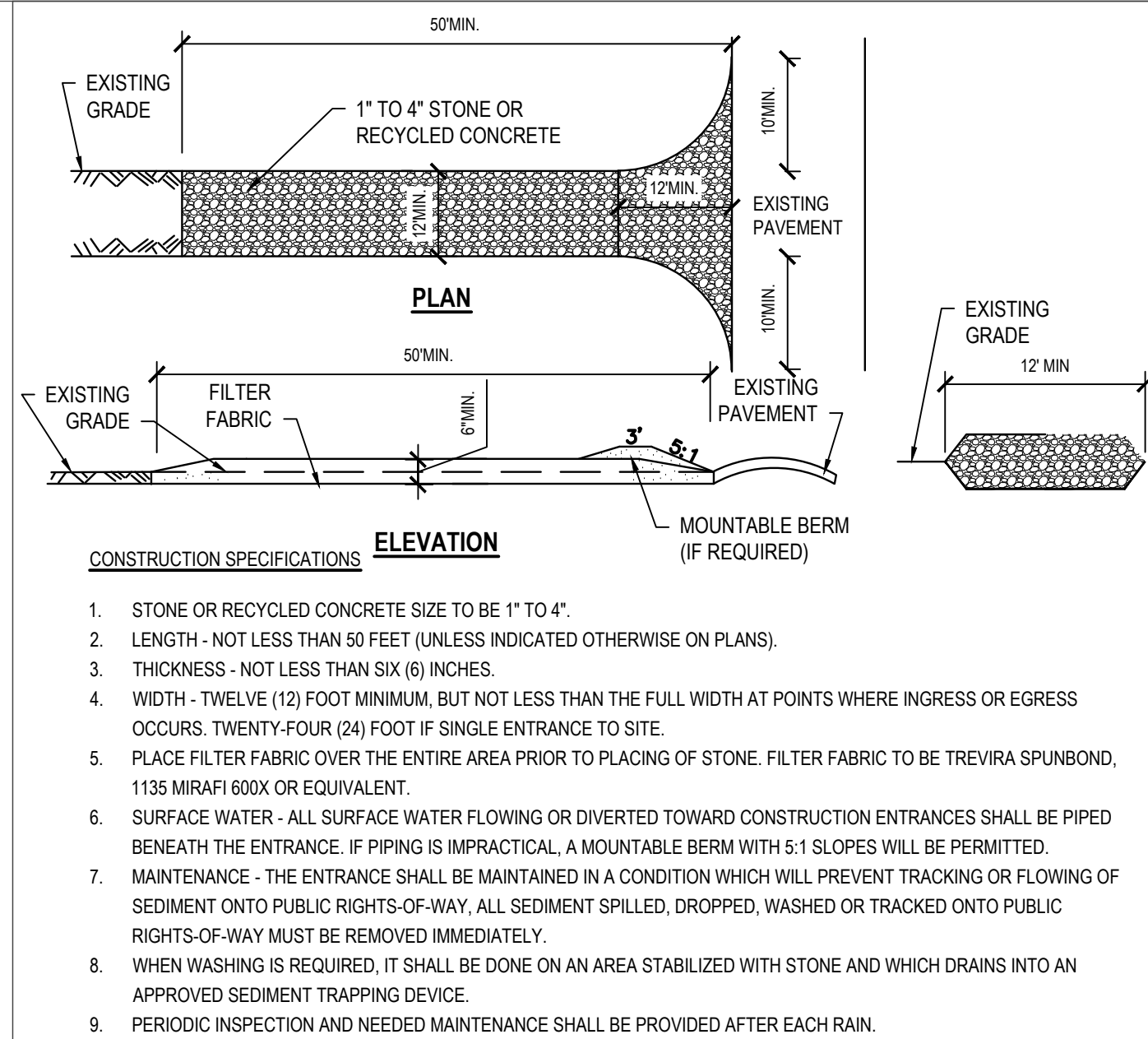
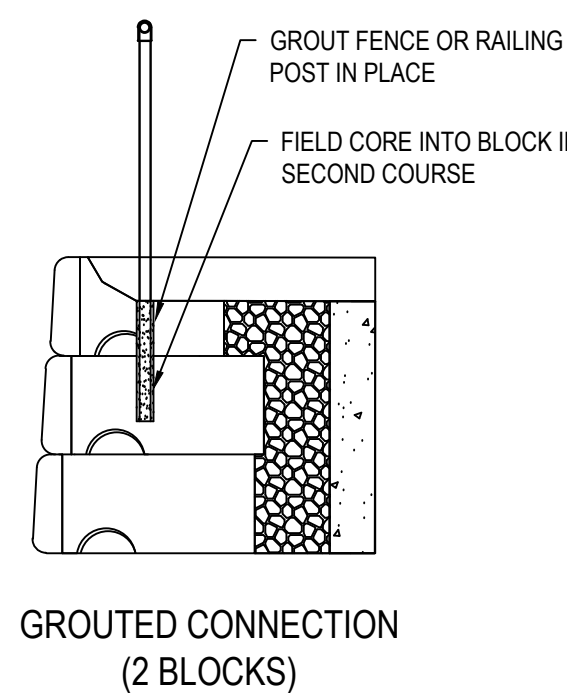
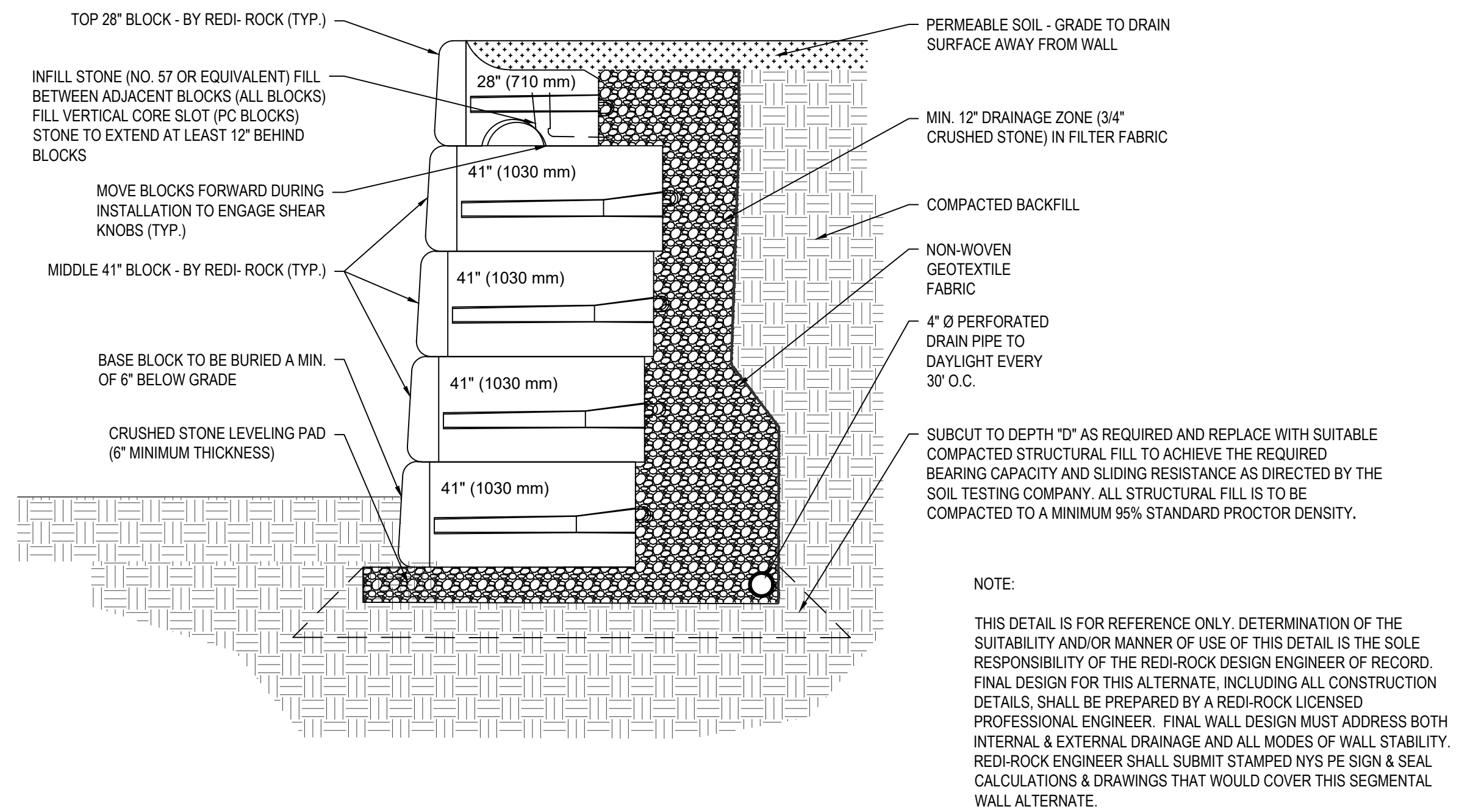
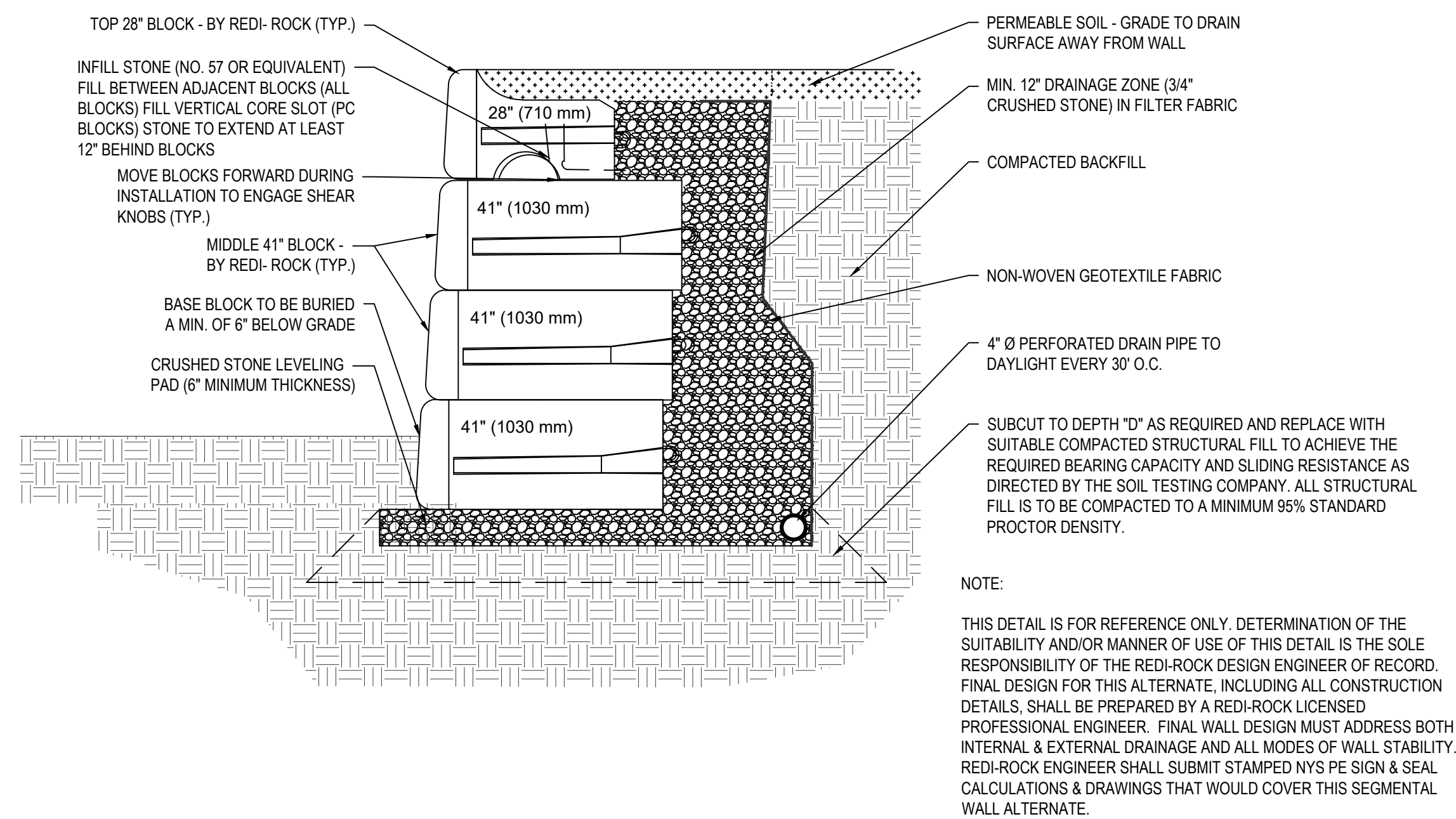
SHEET TITLE

SITE DETAILS

DRAWING No.

C 500.00

WPSD (White Plains City School District) - 10891WPSD 2206 - WPSD School Upgrades and Turf Field/2022-2023/2023-2024/2024-2025/2025-2026/2026-2027/2027-2028/2028-2029/2029-2030/2030-2031/2031-2032/2032-2033/2033-2034/2034-2035/2035-2036/2036-2037/2037-2038/2038-2039/2039-2040/2040-2041/2041-2042/2042-2043/2043-2044/2044-2045/2045-2046/2046-2047/2047-2048/2048-2049/2049-2050/2050-2051/2051-2052/2052-2053/2053-2054/2054-2055/2055-2056/2056-2057/2057-2058/2058-2059/2059-2060/2060-2061/2061-2062/2062-2063/2063-2064/2064-2065/2065-2066/2066-2067/2067-2068/2068-2069/2069-2070/2070-2071/2071-2072/2072-2073/2073-2074/2074-2075/2075-2076/2076-2077/2077-2078/2078-2079/2079-2080/2080-2081/2081-2082/2082-2083/2083-2084/2084-2085/2085-2086/2086-2087/2087-2088/2088-2089/2089-2090/2090-2091/2091-2092/2092-2093/2093-2094/2094-2095/2095-2096/2096-2097/2097-2098/2098-2099/2099-2100/2100-2101/2101-2102/2102-2103/2103-2104/2104-2105/2105-2106/2106-2107/2107-2108/2108-2109/2109-2110/2110-2111/2111-2112/2112-2113/2113-2114/2114-2115/2115-2116/2116-2117/2117-2118/2118-2119/2119-2120/2120-2121/2121-2122/2122-2123/2123-2124/2124-2125/2125-2126/2126-2127/2127-2128/2128-2129/2129-2130/2130-2131/2131-2132/2132-2133/2133-2134/2134-2135/2135-2136/2136-2137/2137-2138/2138-2139/2139-2140/2140-2141/2141-2142/2142-2143/2143-2144/2144-2145/2145-2146/2146-2147/2147-2148/2148-2149/2149-2150/2150-2151/2151-2152/2152-2153/2153-2154/2154-2155/2155-2156/2156-2157/2157-2158/2158-2159/2159-2160/2160-2161/2161-2162/2162-2163/2163-2164/2164-2165/2165-2166/2166-2167/2167-2168/2168-2169/2169-2170/2170-2171/2171-2172/2172-2173/2173-2174/2174-2175/2175-2176/2176-2177/2177-2178/2178-2179/2179-2180/2180-2181/2181-2182/2182-2183/2183-2184/2184-2185/2185-2186/2186-2187/2187-2188/2188-2189/2189-2190/2190-2191/2191-2192/2192-2193/2193-2194/2194-2195/2195-2196/2196-2197/2197-2198/2198-2199/2199-2200/2200-2201/2201-2202/2202-2203/2203-2204/2204-2205/2205-2206/2206-2207/2207-2208/2208-2209/2209-2210/2210-2211/2211-2212/2212-2213/2213-2214/2214-2215/2215-2216/2216-2217/2217-2218/2218-2219/2219-2220/2220-2221/2221-2222/2222-2223/2223-2224/2224-2225/2225-2226/2226-2227/2227-2228/2228-2229/2229-2230/2230-2231/2231-2232/2232-2233/2233-2234/2234-2235/2235-2236/2236-2237/2237-2238/2238-2239/2239-2240/2240-2241/2241-2242/2242-2243/2243-2244/2244-2245/2245-2246/2246-2247/2247-2248/2248-2249/2249-2250/2250-2251/2251-2252/2252-2253/2253-2254/2254-2255/2255-2256/2256-2257/2257-2258/2258-2259/2259-2260/2260-2261/2261-2262/2262-2263/2263-2264/2264-2265/2265-2266/2266-2267/2267-2268/2268-2269/2269-2270/2270-2271/2271-2272/2272-2273/2273-2274/2274-2275/2275-2276/2276-2277/2277-2278/2278-2279/2279-2280/2280-2281/2281-2282/2282-2283/2283-2284/2284-2285/2285-2286/2286-2287/2287-2288/2288-2289/2289-2290/2290-2291/2291-2292/2292-2293/2293-2294/2294-2295/2295-2296/2296-2297/2297-2298/2298-2299/2299-2300/2300-2301/2301-2302/2302-2303/2303-2304/2304-2305/2305-2306/2306-2307/2307-2308/2308-2309/2309-2310/2310-2311/2311-2312/2312-2313/2313-2314/2314-2315/2315-2316/2316-2317/2317-2318/2318-2319/2319-2320/2320-2321/2321-2322/2322-2323/2323-2324/2324-2325/2325-2326/2326-2327/2327-2328/2328-2329/2329-2330/2330-2331/2331-2332/2332-2333/2333-2334/2334-2335/2335-2336/2336-2337/2337-2338/2338-2339/2339-2340/2340-2341/2341-2342/2342-2343/2343-2344/2344-2345/2345-2346/2346-2347/2347-2348/2348-2349/2349-2350/2350-2351/2351-2352/2352-2353/2353-2354/2354-2355/2355-2356/2356-2357/2357-2358/2358-2359/2359-2360/2360-2361/2361-2362/2362-2363/2363-2364/2364-2365/2365-2366/2366-2367/2367-2368/2368-2369/2369-2370/2370-2371/2371-2372/2372-2373/2373-2374/2374-2375/2375-2376/2376-2377/2377-2378/2378-2379/2379-2380/2380-2381/2381-2382/2382-2383/2383-2384/2384-2385/2385-2386/2386-2387/2387-2388/2388-2389/2389-2390/2390-2391/2391-2392/2392-2393/2393-2394/2394-2395/2395-2396/2396-2397/2397-2398/2398-2399/2399-2400/2400-2401/2401-2402/2402-2403/2403-2404/2404-2405/2405-2406/2406-2407/2407-2408/2408-2409/2409-2410/2410-2411/2411-2412/2412-2413/2413-2414/2414-2415/2415-2416/2416-2417/2417-2418/2418-2419/2419-2420/2420-2421/2421-2422/2422-2423/2423-2424/2424-2425/2425-2426/2426-2427/2427-2428/2428-2429/2429-2430/2430-2431/2431-2432/2432-2433/2433-2434/2434-2435/2435-2436/2436-2437/2437-2438/2438-2439/2439-2440/2440-2441/2441-2442/2442-2443/2443-2444/2444-2445/2445-2446/2446-2447/2447-2448/2448-2449/2449-2450/2450-2451/2451-2452/2452-2453/2453-2454/2454-2455/2455-2456/2456-2457/2457-2458/2458-2459/2459-2460/2460-2461/2461-2462/2462-2463/2463-2464/2464-2465/2465-2466/2466-2467/2467-2468/2468-2469/2469-2470/2470-2471/2471-2472/2472-2473/2473-2474/2474-2475/2475-2476/2476-2477/2477-2478/2478-2479/2479-2480/2480-2481/2481-2482/2482-2483/2483-2484/2484-2485/2485-2486/2486-2487/2487-2488/2488-2489/2489-2490/2490-2491/2491-2492/2492-2493/2493-2494/2494-2495/2495-2496/2496-2497/2497-2498/2498-2499/2499-2500/2500-2501/2501-2502/2502-2503/2503-2504/2504-2505/2505-2506/2506-2507/2507-2508/2508-2509/2509-2510/2510-2511/2511-2512/2512-2513/2513-2514/2514-2515/2515-2516/2516-2517/2517-2518/2518-2519/2519-2520/2520-2521/2521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FILTER FABRIC PROPERTIES			
Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	lbs	365 ± 200
Grab Tensile Elongation	ASTM D 4632	%	24 ± 10
Puncture Strength	ASTM D 4683	lbs	90
Million Burst Strength	ASTM D 3786	psi	490
Triaxial Tear Strength	ASTM D 3845	psi	115 ± 75
UV Resistance	ASTM D 4355	-	5
Apparent Opening Size	ASTM D 4751	US Std Sieve	40
Static Charge	ASTM D 4881	Volts	145
Permeability	ASTM D 4751	Sec	2.1

[illegible]

WHITE PLAINS HIGH SCHOOL UPGRADES AND TURF FIELD

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

CONTRACT

CONTRACT C

CIVIL AND SITE WORK

STATUS	FINAL BID SET
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SHEET TITLE

SITE DETAILS

DRAWING No.

C 501.00

