DOCUMENT 00 91 13
ADDENDUM NUMBER 01

DATE:	June 15, 2026
PROJECT:	Piscataway Outdoor Play Area
PSA PROJECT:	10552
OWNER:	Educational Services Commission of New Jersey
ARCHITECT:	Parette Somjen Architects L.L.C.
TO:	Bidders

This Addendum forms a part of the Contract Documents and modifies the Bidding Documents dated May 29, 2026, with amendments and additions noted below. Acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to do so may disqualify the Bidder. This Addendum consists of 196 pages (including this section) and 37 full-size drawings.

1.1 Written Inquiries were due on June 09, 2026.

No written inquiries or exceptions to the Substantial Completion date were received.

1.2 Additional Information for Bidders

A. Bids will be received until **a rescheduled 1:00 PM**, prevailing local time, on Thursday, June 25, 2026.
B. **Bidders shall also be prequalified for, or include documentation for, prequalified subcontractors for (C060) ATHLETIC FIELDS / TRACKS / COURTS.**
C. Specification Section 00 10 00 “Table of Contents” Clarification:
   a. **Specification section has been removed in its entirety and replaced with the attached updated Specification Section 00 01 10 “Table of Contents”, dated 06/15/2026.**
D. Specification Section 00 21 13 “Instructions to Bidders” Clarification:
   a. **Subsection 1.14, Paragraph C has been updated to include (C060) Athletic Fields / Tracks / Courts.**
   b. **Specification section has been removed in its entirety and replaced with the attached updated Specification Section 00 21 13 “Instructions to Bidders”, dated 06/15/2026.**
E. Specification Section 00 43 00 “Procurement Form Supplements” Clarification:
   a. **Appendix A – “List of Subcontractors” has been updated to include (C060) Athletic Fields / Tracks / Courts.**
   b. **Specification section has been removed in its entirety and replaced with the attached updated Specification Section 00 43 00 “Procurement Form Supplements”, dated 06/15/2026.**
F. Specification Section 04 20 00 “Unit Masonry” Clarification:
   a. **Subsection 2.4, Paragraph B has been updated to include the bold text:**
      i. “Interior / **Exterior** Face: Provide Potassium Silicate coating.”
      ii. “Interior / **Exterior** Surface Coating: Potassium Silicate Coating…”
   b. **Specification section has been removed in its entirety and replaced with the attached updated Specification Section 04 20 00 “Unit Masonry”, dated 06/15/2026.**
G. **Specification Section 07 41 00 “Metal Roof Panels” has been created and included in this addendum.**

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H. **Specification Section 09 67 23 "Resinous Flooring" has been created and included in this addendum.**
I. **Specification Section 09 91 13 "Exterior Painting" has been created and included in this addendum.**
J. **Specification Section 09 91 23 "Interior Painting" has been created and included in this addendum.**
K. **Specification Section 10 71 00 "Aluminum Panel Privacy Screen" has been created and included in this addendum.**
L. Specification Section 10 73 13 "Awnings" Clarification:
    a. **Subsection 2.4, Paragraph A has been updated to include the bold text:**
        i. "Basis-of-Design Product: Subject to compliance with requirements, provide Eclipse Premier **Standard Hood** from Eclipse Shading or comparable product…".
    b. **Subsection 2.4, Paragraph C has been updated to include the bold text:**
        i. "Fabric Roll Protection: **Standard Hood** design to partially enclose fabric roll when awning is retracted."
    c. **Specification section has been removed in its entirety and replaced with the attached updated Specification Section 10 73 13 "Awnings", dated 06/15/2026.**
M. **Specification Section 10 73 16.13 "Stage Protective Shade Covers" has been created and included in this addendum.**
N. **Specification Section 10 73 16.14 "Amphitheater Protective Shade Covers" has been created and included in this addendum.**
O. **Specification Section 10 73 16.15 "Entry Seating Protective Shade Covers" has been created and included in this addendum.**
P. **Drawing Sheet T1.01 "Title Sheet", has been removed in its entirety and replaced with the attached updated T1.01 "Title Sheet", dated 06/15/2026.**
Q. **Drawing Sheet T1.02 "Phasing Plan", has been removed in its entirety and replaced with the attached updated T1.02 "Phasing Plan", dated 06/15/2026.**
R. **Drawing Sheet T1.03 "Code and Zoning Review", has been removed in its entirety and replaced with the attached updated T1.03 "Code and Zoning Review", dated 06/15/2026.**
S. **Drawing Sheet C-1.0 "Existing Conditions", has been removed in its entirety and replaced with the attached updated C-1.0 "Existing Conditions", dated 06/15/2026.**
T. **Drawing Sheet C-2.0 "Demolition Plan", has been removed in its entirety and replaced with the attached updated C-2.0 "Demolition Plan", dated 06/15/2026.**
U. **Drawing Sheet C-3.0 "Site Layout Plan", has been removed in its entirety and replaced with the attached updated C-3.0 "Site Layout Plan", dated 06/15/2026.**
V. **Drawing Sheet C-4.0 "Site Grading Plan", has been removed in its entirety and replaced with the attached updated C-4.0 "Site Grading Plan", dated 06/15/2026.**
W. **Drawing Sheet C-5.0 "Utility Plan", has been removed in its entirety and replaced with the attached updated C-5.0 "Utility Plan", dated 06/15/2026.**
X. **Drawing Sheet C-6.0 "Landscape Plan", has been removed in its entirety and replaced with the attached updated C-6.0 "Landscape Plan", dated 06/15/2026.**
Y. **Drawing Sheet C-7.0 "Soil Erosion and Sediment Control Plan", has been removed in its entirety and replaced with the attached updated C-7.0 "Soil Erosion and Sediment Control Plan", dated 06/15/2026.**
Z. **Drawing Sheet C-8.1 "Details", has been removed in its entirety and replaced with the attached updated C-8.1 "Details", dated 06/15/2026.**
AA. **Drawing Sheet C-8.3 "Details" has been created and included as part of this addendum.**

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BB. **Drawing Sheet S0.01 "Structural Notes and Design Criteria" has been created and included as part of this addendum.**

CC. **Drawing Sheet S0.02 "Special Inspection Notes and Schedules" has been created and included as part of this addendum.**

DD. **Drawing Sheet S1.01 "Foundation and Roof Framing Plans" has been created and included as part of this addendum.**

EE. **Drawing Sheet A1.01 "Overall Construction Plan", has been removed in its entirety and replaced with the attached updated A1.01 "Overall Construction Plan", dated 06/15/2026.**

FF. **Drawing Sheet A1.02 "Partial Construction Plan I", has been removed in its entirety and replaced with the attached updated A1.02 "Partial Construction Plan I", dated 06/15/2026.**

GG. **Drawing Sheet A1.03 "Partial Construction Plan II", has been removed in its entirety and replaced with the attached updated A1.03 "Partial Construction Plan II", dated 06/15/2026.**

HH. **Drawing Sheet A1.04 "Partial Construction Plan III", has been removed in its entirety and replaced with the attached updated A1.04 "Partial Construction Plan III", dated 06/15/2026.**

II. **Drawing Sheet A1.05 "Partial Construction Plan IV", has been removed in its entirety and replaced with the attached updated A1.05 "Partial Construction Plan IV", dated 06/15/2026.**

JJ. **Drawing Sheet A1.06 "Courtyard Construction Plans", has been removed in its entirety and replaced with the attached updated A1.06 "Courtyard Construction Plans", dated 06/15/2026.**

KK. **Drawing Sheet A2.01 "Awing Elevations and Details", has been removed in its entirety.**

LL. **Drawing Sheet A1.07 "Field House Construction Plans", has been removed in its entirety.**

MM. **Drawing Sheet A1.07 "Awning Elevations and Details" has been created and included as part of this addendum.**

NN. **Drawing Sheet A2.01 "Field House Construction Plans" has been created and included as part of this addendum.**

OO. **Drawing Sheet A2.02 "Field House Elevations and Sections", has been removed in its entirety and replaced with the attached updated A2.02 "Field House Elevations and Sections", dated 06/15/2026.**

PP. **Drawing Sheet A2.03 "Field House Wall Sections I", has been removed in its entirety and replaced with the attached updated A2.03 "Field House Wall Sections I", dated 06/15/2026.**

QQ. **Drawing Sheet A2.04 "Field House Wall Sections II", has been removed in its entirety and replaced with the attached updated A2.04 "Field House Wall Sections II", dated 06/15/2026.**

RR. **Drawing Sheet A3.01 "Schedule and Details", has been removed in its entirety.**

SS. **Drawing Sheet A3.02 "Field House Roof Details", has been removed in its entirety.**

TT. **Drawing Sheet A3.03 "Details III", has been removed in its entirety.**

UU. **Drawing Sheet A3.01 "Barrier Free Typical Details" has been created and included as part of this addendum.**

VV. **Drawing Sheet A3.02 "Door Schedule and Wall Type Details" has been created and included as part of this addendum.**

WW. **Drawing Sheet A3.03 "Field House Roof Details I" has been created and included as part of this addendum.**

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XX. **Drawing Sheet A3.04 "Field House Roof Details II" has been created and included as part of this addendum.**

YY. **Drawing Sheet A3.05 "Fence and Gate Details" has been created and included as part of this addendum.**

ZZ. **Drawing Sheet A3.06 "Miscellaneous Details" has been created and included as part of this addendum.**

AAA. **Drawing Sheet E-102 "Electrical New Work Site Plan", has been removed in its entirety and replaced with the attached updated E-102 "Electrical New Work Site Plan", dated 06/15/2026.**

BBB. **Drawing Sheet E-103 "IT Data New Work Site Plan", has been removed in its entirety and replaced with the attached updated E-103 "IT Data New Work Site Plan", dated 06/15/2026.**

CCC. **Drawing Sheet P-101 "Plumbing Floor Plan", has been removed in its entirety and replaced with the attached updated P-101 "Plumbing Floor Plan", dated 06/15/2026.**

DDD. **Drawing Sheet P-102 "Plumbing Site Plan", has been removed in its entirety and replaced with the attached updated P-102 "Plumbing Site Plan", dated 06/15/2026.**

EEE. **Drawing Sheet P-103 "Plumbing Enlarge Plan", has been removed in its entirety and replaced with the attached updated P-103 "Plumbing Enlarge Plan", dated 06/15/2026.**

1.3 Attachments

A. Specifications:
   a. Specification Section 00 01 10 "Table of Contents", dated 06/15/2026.
   b. Specification Section 00 21 13 "Instructions to Bidders", dated 06/15/2026.
   c. Specification Section 00 43 00 "Procurement Form Supplements", dated 06/15/2026
   d. Specification Section 04 20 00 "Unit Masonry", dated 06/15/2026.
   e. Specification Section 07 41 00 "Metal Roof Panels", dated 06/15/2026.
   f. Specification Section 09 67 23 "Resinous Flooring", dated 06/15/2026.
   g. Specification Section 09 91 13 "Exterior Painting", dated 06/15/2026.
   h. Specification Section 09 91 23 "Interior Painting", dated 06/15/2026.
   i. Specification Section 10 71 00 "Aluminum Panel Privacy Screen", dated 06/15/2026.
   j. Specification Section 10 73 13 "Awnings", dated 06/15/2026.
   k. Specification Section 10 73 16.13 "Stage Protective Shade Covers", dated 06/15/2026.
   l. Specification Section 10 73 16.14 "Amphitheater Protective Shade Covers", dated 06/15/2026.
   m. Specification Section 10 73 16.15 "Entry Seating Protective Shade Covers", dated 06/15/2026.

B. Drawings:
   a. Drawing Sheet T1.01 "Title Sheet", dated 06/15/2026.
   b. Drawing Sheet T1.02 "Phasing Plan", dated 06/15/2026.
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kk. Drawing Sheet P-103 “Plumbing Enlarge Plan”, dated 06/15/2026.

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The undersigned acknowledges receipt of and has reviewed Addendum No.01, and agrees to all conditions outlined herein. It is further agreed that this Addendum shall become part of the Contract Documents, and any resultant costs shall be included in the Bid Price.

Printed Name of Bidder	*Company*
Signature	*Date*

END OF DOCUMENT 00 91 13

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DOCUMENT 00 21 13
INSTRUCTIONS TO BIDDERS

1.1 SUMMARY

A. Document Includes:
1. Summary.
2. Bid submission.
3. Work identified in contract documents.
4. Contract Time.
5. Definitions.
6. Contract Documents identification.
7. Availability of documents.
8. Inquiries and Addenda.
9. Obligations of Bidders.
10. Product & Product Substitutions.
11. Site examination.
12. Pre-bid conference.
13. Bidder qualifications.
14. Subcontractors.
15. Submission procedure.
16. Bid ineligibility.
17. Bid Guarantee / Certificate of Surety.
18. Contract Bonds.
19. Insurance.
20. Bid Form requirements.
21. Fees for changes in the Work.
22. Bid Form signature.
23. Additional Bid Information (incl. Criminal History Record Check on employees).
24. Selection and award of alternates.
25. Bid opening.
26. Duration of offer.
27. Acceptance of offer / Award of Contract.
28. New Jersey Business Registration Requirements.
29. Prompt Payment.
30. Pay to Play Disclosure.
31. Waivers.
32. Laws.
33. Anti-Bullying Bill of Rights.
34. Bid Protests and Contractor’s Responsibility.

B. Related Documents:
1. Document 00 11 13 - Advertisement for Bids.
2. Document 00 41 13 - Bid Form - Stipulated Sum (Single-Prime Contract).
3. Document 00 43 00 - Procurement Form Supplements.

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1.2 BID SUBMISSION

A. Each Bidder is instructed to read the official Advertisement for Bids. Instructions and requirements in this "Instructions to Bidders" Section are intended to clarify and supplement the Advertisement.

B. Submit **one (1) original and two (2) copies** of the executed bid form and all required documentation on Bid Forms provided, signed and sealed with required bid guarantee in a closed opaque envelope, clearly identified with Bidder's name, Project name and number, and Owner's name on the outside of the sealed envelope.

C. Owner and Project Information:

1. **Owner:** Educational Services Commission of New Jersey
   Address: 1660 Stelton Road, 2nd Floor
   Piscataway, NJ, 08854
   References to the District, the Board, the Board of Education, or the **Educational Services Commission of New Jersey (ESCNJ)** shall all be interpreted as being to the "Owner" as listed here.

2. Representative: Mr. Timothy Havlusch
   Business Administrator / Board Secretary

3. Project Name: **Piscataway Outdoor Play Area**
   ESCNJ RFP # ESCNJ 26-27-09-Piscataway Outdoor Play Area

4. PSA Proj. No.: 10552

1.3 WORK IDENTIFIED IN CONTRACT DOCUMENTS

A. The Scope of Work for the Project is determined by the complete construction documentation, including all addenda thereto issued during the bid cycle, and the full Scope of Work is not limited by the brief summary of the Work provided here or in the Division 01 Summary of Work section, and including any Summary of Site Work section for projects involving exterior site improvements. Such "summaries" are issued to provide Bidders with a basic understanding of the general intent of the Project, and as such, the summaries are not exhaustive, all-inclusive listings of project scope. Absence of any specific detail in an offered summary does not remove such element from the Scope of Work presented by the complete document set.

B. The Scope of Work includes the following:

The scope of this project includes, but is not limited to, site improvements to a 63,700 sf area which includes: new 12 and older play equipment, a splash pad, a new masonry building with storage and changing rooms, new drainable rubber surfacing under existing equipment, a small amphitheater and a meandering accessible path with portions of concrete ramps and sidewalks. New automatic canopies, new accessible planting beds, a bioretention basin, new fencing and other new site furniture are included as part of this project. The contract documents define the full project scope.

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1.4 CONTRACT TIME

A. This Project's base bid and any awarded alternates (as applicable) must be substantially complete by the date(s) outlined in paragraph D below. This includes all testing, construction/restoration work, removal, and proper disposal of old material, final clean-up, and submission of final closeout documentation. It shall be understood that the surrounding buildings and property will be partially occupied and utilized during the period of this construction. No spaces or buildings will be without heat, ventilation, power, or other services without the prior approval of the Board of Education. The building involved in this project is on a public school site, and will be occupied with staff and students most times except during summer recess, when occupancy and use of buildings is significantly reduced. At times that the school is in session, there will be morning drop-off and afternoon pick-up by buses and cars.

B. All work to be performed on this Project shall be done First Shift, nominally 7:00 am–4:00 pm during weekdays, except as specifically noted otherwise, or at such other times as may be designated by the Owner, project conditions, and/or local ordinances.

1. The Contractor is responsible to pay for District's designated staff's overtime custodial time if they need to work outside the designated work hours to meet the project schedule or to avoid interference with Owner operations, and access to existing facilities is needed. See academic calendar reference in specification document 00 30 00, "Information Available to Bidders," for additional information. The Contractor cannot work in student occupied areas within the school building during the regular academic day without prior approval from the District. Refer to the Phasing Plan for areas in the school building to be renovated during the regular academic day, as applicable. All demolition and construction noise and dust to be limited inside the building during hours of operation. All "noise and dust" related to demolition and construction to be limited to before 7:30 am and after 3:30 pm. .

C. Following award, the Contractor is responsible for submitting a schedule in the required format (described in Section 01 32 13, "Scheduling of Work") to the Architect and Owner nominally seven business days after notice to proceed.Commencement of construction is not permitted prior to submission of a schedule. The timeline shall be consistent with the Phasing and Milestone dates or durations set forth in Paragraph D, below. Failure to submit schedule will be sufficient cause for the Architect to refuse to certify a Contractor's Application for Payments.

D. Time: Progress Schedule, specific durations:
The Schedule below contains durations and / or milestone dates that should be adhered to unless modified in writing by mutual agreement between the Contractor, the Owner, and Architect.

1.	Mobilization:	Starts at Notice to Proceed
2.	Commence Construction:	17/ July/ 2026
	Project Milestone:	
	Phase 1:	14 / August/ 2026
	Phase 2:	20/ November/2026
	Phase 3:	11/ June/ 2027
3.	Substantial Completion:	11/ June/ 2027

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4. Punch List / Closeout Completion: 30 Days after Substantial Completion

E. Additional Scheduling Items
1. The Contractor shall allow in their construction schedule for the occurrence of five (5) "no work" days per school year to accommodate unforeseen events for which Owner may be obligated to advise that they will not be able to work on site due to school activities. The District will generally provide notification seven (7) calendar days prior to any day, when using one of the "no work" days.

F. The Contractor acknowledges by submission of a bid proposal, that it has been advised of the above allowable work schedule, and as noted in the phasing plan as applicable, and will make no claim for acceleration based upon the completion date and work schedule. TIME SHALL BE OF THE ESSENCE**. Contractor acknowledges that the Notice to Proceed / Letter of Intent is the official first day of construction for the Project.**

G. If the Work is not complete by the Substantial Completion date, or the entire Project is not complete within the time required by Paragraph D above, the Owner reserves the right to terminate the Contract and have the work completed by others at the expense of the Contractor.

H. Liquidated Damages

1. The Contractor agrees to substantially complete this public works project to the complete satisfaction of the Board of Education by the stated contract substantial completion date or within the number of working days so specified in the contract.
2. For each milestone identified by the Contractor in their schedule (see Section 01 32 13 Scheduling of Work) that is missed, or if the project is not substantially complete by the Substantial Completion date, the Contractor will be liable to the Board of Education, as liquidated damages, and not as penalty, the sum per day for each calendar day the project is not completed, in accordance with NJSA 18A:18A-41 and 18A:18A-19, as provided in Section **00 73 00a** Modifications to the General Conditions, paragraph **8.5 Liquidated Damages**, subparagraph 8.5.1.
3. If the Punch List & Closeout phase is not complete by the time required by Paragraph D above, the Contractor will be liable to the Board of Education, as liquidated damages, and not as a penalty; the same established sum per day for each calendar day the project is not completed.
4. The Board may assess liquidated damages by deducting the amount from monies which may be due or become due to the contract.

I. Since the actual damages suffered by the Owner are incapable of precise calculation, the Bidder agrees that the foregoing amount is a fair and reasonable method of measuring the damages suffered by the Owner for each calendar day the project is delayed.

1.5 DEFINITIONS

A. Addendum: A written document that is issued prior to receipt of bids for the purpose of modifying or clarifying the Bidding Documents.

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B. Affiliate: The term "Affiliate" means any entity that (1) directly, indirectly, or constructively controls another entity, (2) is directly, indirectly, or constructively controlled by another entity, or (3) is subject to the control of a common entity. An entity controls another entity if it owns, directly or individually, more than 50% of the ownership interest in that entity.

C. Architect: The licensed professional or his / her representatives / team, and his / her consultants engaged by the Board of Education to undertake professional design services associated with the Project.

D. Bid: Executed Bid Form and required attachments submitted in accordance with these Instructions to Bidders.

E. Bidding Documents: Contract Documents supplemented with a Project Manual including any issued written Addenda.

F. Bid Price: Monetary sum identified by the Bidder on the Bid Form.

G. Construction Site: refers to the selected geographical area within the entire School property at which the Work under the contract is to be performed.

H. Contract Documents: As defined in AIA Document A201 -2017 Article 1, including the Instructions to Bidders, issued Addenda, forms required by applicable NJ State laws~~,~~ and other such documents enumerated in the Agreement Between the Owner and the Contractor.

I. Contractor: the person or persons, company, or companies with whom the Board of Education contracts to perform the necessary Work for this Project.

J. Debarred: The condition of having specified persons or entities being listed on the federal government's System for Award Management (SAM) database as being debarred from contracting with a federal government agency.

K. Owner: The specific Board of Education named at the beginning of this section, sometimes also called the Board, the School District, or the District. All such general references shall be interpreted as specifically referring to the Project Owner listed in **Paragraph 1.2.C** of this section.

L. Plans: means any drawings or reproductions thereof pertaining to the details of the Work contemplated by this contract.

M. Project: a general term for identification of the total contract. It includes the Work and all administrative aspects required to fully satisfy the contract requirements.

N. Project Manual: is part of the Contract Documents which includes **(1)** Div. 00 Bidding Requirements including the invitation to bid, bid proposal forms, list of specifications, general conditions, supplemental general conditions, and drawings included by reference; **(2)** Division 01 General Requirements including summary of work, alternates, administrative and procedural guidance; and **(3)** technical specifications in divisions 02 through 48.

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O. Punchlist: the list of incomplete or defective Work that remains to be completed after achievement of Substantial Completion. The punch list will not be provided until the Temporary Certificate of Occupancy (TCO) or Certificate of Occupancy (CO) has been issued by the local construction code official.

P. Specifications: written instructions or other information pertaining to materials and products, the method of performing the Work, and the results to be obtained therefrom that are required for this contract.

Q. Subcontractor: the person or persons, company, or companies with whom the Contractor has contracted to perform the necessary Work on this Project.

R. Substantial Completion: Substantial Completion shall be determined by the Architect and Owner upon review of the completed activities in accordance with the Contract Documents. Warranty and guarantee periods commence on the date the entire Work is fully complete and accepted. Substantial Completion of this contract is defined as being conditioned on the following basis:

1. All Work as described, detailed, and shown on both contract drawings and specifications must be completed to the satisfaction of the Architect and Owner, except as specifically indicated on an attached dated punch list which is referenced on the Certificate of Substantial Completion.
2. Contractor has submitted proper documentation indicating that all inspections and required testing requirements have been satisfied, and all final record documents and surveys have been delivered to the Owner and have been accepted.
3. A Temporary Certificate of Occupancy (TCO) or Certificate of Occupancy (CO) has been issued by the Authority having Jurisdiction for the identified construction.
4. For improvements to building systems or elements not eligible for a CO, a Certificate of Authorization (C of A) has been issued by the Authority having Jurisdiction.
5. The site and building are in an orderly, safe, and maintained condition.
6. The building, facility, system, or improvement is operational and is capable of serving its intended use.
7. The Contractor has removed its field office and storage trailers off site, if applicable.
8. All project close-out submittals have been received and have been accepted as satisfying contract requirements.

S. Work: as used herein comprises all construction efforts required by the contract documents and includes the Work and all supervision, labor, material, and equipment necessary to complete such construction.

1.6 EDUCATION FACILITIES CONSTRUCTION & FINANCING ACT (EFCFA)

A. The Board shall not enter into any contract for Work on a school facilities project with any person or firm who has been debarred, suspended, or disqualified from State, or Federal government contracting. The Contracted Party, its Subconsultants, or Subcontractors may be debarred, suspended, or disqualified from contracting and/or working on the School Facilities Project if found to have committed any of the acts listed in N.J.A.C. 17:19-3.1 *et seq*. and N.J.A.C. 6:20-7.1 *et seq*. All Bidders shall include the provisions of paragraph B in all agreements with all Subconsultants and Subcontractors involved in this project.

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B. All Bidders shall submit a sworn statement by the Bidder, or an officer or partner of the Bidder, indicating whether or not the Bidder is, at the time of the bid, included on the State Treasurer's or the Federal Government's List of Debarred, Suspended, or Disqualified Bidders as a result of action taken by any State or Federal agency, as the case may be. The District shall immediately notify the State and the Unit of Fiscal Integrity, in writing, whenever it appears or the district obtains knowledge that a Bidder, any contracted party, Subconsultant, or Subcontractor is on the Treasurer's or the Federal Government's List. The State reserves the right in such circumstances to immediately suspend such Bidder from contracting and/or engaging in work on the school facilities project and to take such other action as it deems appropriate pursuant to N.J.A.C. 17:19-3.1 *et seq*. A form entitled, "Appendix S – Certified Sworn Statement on Non-Disbarment / Disqualification / Suspension" is included as part of the bidding documents.

C. In addition to Appendix S that is to be attached to the bid, the successful Bidder after bid opening must, prior to award of contract, submit a different Certification of Non-Debarment for Federal Contracts as required by N.J.S.A. 52:32-44.1 (P/L/ 2019, c.406). Refer to instructions on page **3 and 4** of **Section 00 43 00** Procurement Form Supplements for further explanation and source for the required certification form.

1.7 CONTRACT DOCUMENTS IDENTIFICATION

A. The Contract Documents are identified as **Project Number 10552** as prepared by Parette Somjen Architects L.L.C. with offices at 439 Route 46 East, Rockaway, NJ 07866.

1.8 AVAILABILITY OF DOCUMENTS

A. Bidding Documents may be obtained as stated in Advertisement for Bids.

B. Partial sets of Bidding Documents will not be issued.

C. Bidding Documents are made available only for the purpose of obtaining offers for this Project. Their use does not grant a license for other purposes.

1.9 INQUIRIES AND ADDENDA

A. Bidders shall direct questions in writing to Tracy Boss at the office of Parette Somjen Architects L.L.C. by mail, by facsimile at 973.586.2401, or by email at TBoss@planetpsa.com.

B. Verbal answers will not be given, and if encountered, are not binding on any party. Written questions and answers will be part of the project record.

C. Questions must be received by the Architect by June, 9, 2026, not later than three (3) business days prior to the deadline for last issuance of addenda. Pursuant to N.J.S.A. 18A:18A-21c(2), any replies or other revisions will be made only by written Addendum, and will be issued no later than seven (7) days (Saturdays, Sundays, and holidays excepted) before date set for receipt of Bids.

D. Any prospective Bidder who wishes to challenge a bid specification shall file such challenge in writing with the School Business Administrator no less than three (3) business

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days prior to the bid opening. Challenges filed after that time shall be void and shall have no impact whatsoever on the Board of Education or the award of a contract.

E. Addenda may be issued during bidding period. Addenda will be provided to persons who are registered with the Architect as plan holders and pursuant to N.J.S.A.18A:18A-21(c) (2), will be sent or delivered to the address or telephone facsimile number furnished to the Architect by the Bidder or person who received a bid package. Addenda become part of the Contract Documents. Include resultant costs of Addenda, if any, in the Bid Price and acknowledge receipt of addenda on the Bid Form.

1.10 OBLIGATIONS OF BIDDERS

A. Each Bidder shall, by careful examination of the Notice to Bidders, Instructions to Bidders, Drawings, Specifications, Addenda, and other contract documents, satisfy itself as to the location of the Work, the foundation conditions, the quality and quantity of Work to be performed, and the materials to be furnished, the type of facilities needed for prosecution of the Work, the general and local conditions, all laws, permits, licenses, and ordinances applicable to the Work, and all other matters which in any way affect the performance of this Contract. Costs attendant to all these considerations and conditions are to be included in the base bid price. The Specifications, Drawings, and Addenda shall be considered as a whole and shall not be separated during the bidding or construction period. Division of Specifications into Divisions and Sections is solely for organization and is not intended to define trade responsibilities, unless specifically stated. Any decision on separation of the whole Contract Scope of Work into subcontract scopes is entirely the responsibility of the Bidder, who remains solely responsible for the completeness and coordination of their submitted bid. The Bidder acknowledges that following award, as the Contractor, they will be responsible for work on Division 1 as well as those items indicated under their Contract. The Contractor shall be held responsible for reviewing and understanding the relationship between its Work and the work of other Contracts by becoming thoroughly familiar with the drawings, specifications, addenda, and bulletins of other contracts.

B. At the time of the opening of bids, each Bidder will be presumed to have inspected the site or have otherwise become familiar with the site, and to have read, and to be thoroughly familiar with the Contract Documents. The failure or neglect of any Bidder to receive or examine any form, instrument, or document shall in no way relieve any Bidder from any obligation in respect to its bid. The Bidder shall examine the contents of the Project Manual and the set of Drawings and assure itself that all pages of the Specifications, Drawings, and other Contract Documents are included in the documents obtained for bidding purposes. Should the Specifications, Drawings, and other Contract Documents be incomplete, the Bidder shall notify the Architect in writing, who will supply the Bidder with any missing pages of Specifications, Drawings, or other Contract Documents. The lack of such written notification by the Bidder will be construed as evidence that the Specifications, Drawings, and other Contract Documents supplied to it for bidding purposes are full and complete and as a waiver of any subsequent claim to the contrary.

C. In the event there is a conflict between any of the Contract Documents or drawings, the provision most favorable to the Owner shall prevail.

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D. Submission of a bid will constitute the Bidder's representation that they understand and agree with these, and all other obligations set forth in the Contract Documents. No consideration will be given for any misunderstanding of the requirements of the Contract.

E. Following the opening of bids, the apparent low Bidder shall coordinate with the District's Business Administrator to assure that any documentation submittals in addition to the bid form and attachments, which are required prior to award of contract are duly executed and submitted for the Owner's review, use, and project record.

F. Return of Contracts and Related Contract Documents—Within Ten (10) Calendar Days.

1. Upon written notification of award of contract by the Board of Education, the Bidder becomes the Contractor, and in that awarded capacity, shall sign and execute a formal contract agreement between Board of Education and Contractor, and return the executed contracts along with:

   a. Performance Bond in the total amount of the contract.
   b. Insurance Certificate with the Board of Education named as an additional insured.
   c. Affirmative Action Form AA-201 - Initial Project Workforce Report - (Yellow copy).
   d. Other required documents as may be outlined in bid specifications.

2. The above documents may also be required for submission to the Board of Education upon receipt of the official Notice to Proceed. The contracts and related documents shall be returned to the Office of the School Business Administrator/Board Secretary within ten (10) calendar days of receipt of notification. Failure to execute the contract and return said contract and related required documents within the prescribed time may be cause for the annulment of award by the Board with the bid security becoming property of the Board of Education. Contracts are required by applicable law to be executed by all parties within twenty-one (21) days, Sundays and Holidays excepted, of the date of award.

G. The successful Bidder following award, as Contractor, shall use its best skill and attention, and shall be solely responsible for all construction means, methods, techniques, sequences, and procedures and for coordinating all portions of the Work under the contract. The Contractor shall provide and pay for all labor, materials, equipment, tools, construction equipment, and machinery for the proper execution and completion of the Work, whether temporary or permanent.

H. The successful Bidder following award, as Contractor, shall at all times enforce strict discipline and good work order among its employees and sub-contractors and shall not employ on the work force any unfit person or anyone not skilled in the task assigned.

1. The Bidder acknowledges that all individuals who will be employed for the school facility project will be in compliance with the requirements of NJSA 18A:6-7.2 et seq. in regard to undergoing criminal history record check, and obtaining approval for employment from the New Jersey Department of Education (DOE) Office of Student Protection (OSP).
2. Pre-Employment Requirements – Contracted Service Providers: When applicable, all contracted service providers, whose employees have regular contact

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with students, shall comply with the Pre-Employment Requirements in accordance with New Jersey P.L. 2018 c.5, N.J.S.A. 18A:6-7.6 et seq. The determination of "regular contact with students" will be made by the school district. Contracted service providers are to review the following New Jersey Department of Education—Pre-Employment Resource P.L. 2018 c.5 link below for guidance and compliance procedures.

https://www.nj.gov/education/crimhist/preemployment/

3. If it is discovered during the course of the contract that a Contractor or subcontractor employee has a disqualifying criminal history or the employee has not had a criminal history background check, that employee is to be removed from the project immediately.

I. The Contractor shall maintain the job sites in a clean, safe, and secure manner at all times. This shall include all hours when Work is not in progress including but not limited to evenings and weekends.

J. It is the Contractor's responsibility to submit the design drawings and specifications to the authority having jurisdiction (AHJ) for all local permits and authorizations. No work can be performed until the AHJ approves the plans and issues a permit or letter of approval to proceed.

K. The successful Bidder, as Contractor, shall execute the entire Work described in the contract documents or reasonably inferred as necessary to produce the results intended by the contract documents.

L. The successful Bidder, as Contractor, shall secure all certificates of inspection and of occupancy or approval that may be required by the authorities having jurisdiction over the work of the respective contract, and shall deliver same to the Owner upon completion of the Work. All work is to be performed in accordance with OSHA safety requirements.

M. The Asbestos Hazard Emergency Response Act (AHERA) management plan is available for inspection by all Bidders. All Contractors and Subcontractors will be required to review and acknowledge the management plan prior to the commencement of work.

1.11 PRODUCTS & PRODUCT SUBSTITUTIONS

A. In accordance with N.J.S.A. 18A:18A-20, only manufactured and farm products of the United States, wherever available, may be used in the Work.

B. As provided in N.J.A.C. 5:34-9.2(d), under no circumstance shall specifications require any form of "pre-approval" or "pre-qualification" of an equivalent product before the submission of bids. Requests for product substitution may be prepared and be submitted for review by the Contractor after contract award during the limited Substitution Request Submittal Period of forty-five (45) calendar days from issuance of the Notice to Proceed. The Contractor, in order for the Architect to consider such a substitution, must provide enough information to support the evaluation of equivalency. However, the Contractor assumes the risk that if not approved as "an equal" they are still

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responsible for providing the Basis of Design or an approved equal as part of their contract without any cost increase adjustments. Product substitution requests provided after the Substitution Request Submittal Period expires will not be permitted. Refer to Section 01 60 00, "Product Requirements," to find requirements for substitution consideration and procedures for submittal of requests by the Contractor within the Substitution Request Submittal Period.

1. In accordance with N.J.A.C. 5:34-9.2., where the specifications list a particular manufacturer as Basis of Design, the listed brand name shall serve as a reference or point of comparison for the functional or operational characteristics desired for the good or service being requested. Where the Contractor submits an equivalent~~,~~ it shall be the responsibility of the Contractor to document the equivalence claim. Failure to submit such documentation shall be grounds for rejection of the claim of equivalence.

C. The successful Bidder shall deliver products to the project site in original, unopened packages, with the manufacturer's labels identifying products legibly and intact. Include on labels names of products and manufacturers, date of manufacture and shelf life, where applicable. Also include UL labels for fire resistance ratings applicable to project. Labels must also conform to the New Jersey Right To Know Law (NJRTK). Supply to the Business Administrator any and all Material Safety Data Sheets (MSDS) for supplies brought onto, used, or stored on the site.

1.12 SITE EXAMINATION

A. Examine Project site before submitting a Bid. Under conditions where a governmental authority having jurisdiction imposes restrictions upon the Owner, access to the project site may involve restrictions. Contact the Architect's Project Manager or the School District Business Office to obtain clarification on rules for escorted access to the project site and procedures for obtaining an appointment. Conditions for obtaining access to the project site will apply to all Bidders equally. Requests for access should be made as early in the bidding cycle as possible.

B. At the time of the opening of the bids, each Bidder will be presumed to have inspected the site and to have read and become thoroughly familiar with the Notice to Bidders, Instructions to Bidders, Bid Specifications, and other bidding documents. The failure or omission of any Bidder to receive or examine any form, instrument, or document or to visit the site or otherwise acquaint itself with the conditions there existing, shall not relieve the Bidder from their obligation to furnish all the necessary labor and materials to complete the project at the bid price. A claim of mistake or omission will likewise not excuse a Bidder from any obligation under its bid. The submission of a bid will be considered conclusive evidence that the Bidder has made such an examination.

1.13 PREBID CONFERENCE

A. A Pre-Bid Conference has been scheduled as announced in the Advertisement for Bids at the School location identified in that Section. All Bidders are invited to attend. While not mandatory, attendance is highly recommended. Refer to **Section 00 11 13 Advertisement for Bids** in this Project Manual for the exact assembly location and date and time for the meeting.

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B. The purpose of a Pre-Bid Conference is to provide a general project overview and if needed, to discuss any details of the project which may be unclear. Also, Bidders will be allowed, as a group, the opportunity to inspect the facilities. Bidders may ask oral questions at a Pre-Bid Conference but are required to submit all questions for record via email to the Architect's Project Manager. Answers to such questions will be provided in an addendum released to all registered plan holders. Please be aware that the site will only be available for inspection on this day when ~~the~~ Pre-Bid Conference is scheduled. Subsequent site visits for the purpose of quantity take offs and assessment of staging considerations must be arranged with the School Business Administrator by appointment only.

C. The advertised Pre-Bid Conference may be canceled for a variety of reasons including unforeseen emergency conditions. If the pre-bid conference is canceled, Bidders of record who are properly registered with the Architect as plan holders will be notified by telephone, fax, or email no later than **1:00 pm on the business day before the advertised Pre-Bid Conference time**. All Bidders will be notified of any rescheduled date and time, via addendum, and be notified by telephone, fax, or email that the Pre-Bid Conference has been postponed and the reason therefore.

D. Representatives of the Architect may be in attendance.

E. Information relevant to Bidding Documents will be issued by Addendum in compliance with Section 00 21 13, Paragraph 1.9.E.

1.14 BIDDER QUALIFICATIONS

A. The Owner may make such investigations as it deems necessary to determine the ability of each Bidder to perform the work, and each Bidder shall furnish all such information and data for this purpose as the Owner may request.

B. It is the intent of the Owner not to award the contract to any Bidder who does not furnish satisfactory evidence that they are responsible and that they have sufficient capital, ability, experience, and resources to enable them to prosecute the Work successfully and, to fulfill all the requirements of the contract. Pursuant to N.J.S.A. 18A:18A-23, the Bidder shall certify (See Appendix E in Section 00 43 00 Procurement Form Supplements.) that it owns, leases, or controls all the necessary equipment required by the plans, specifications, and advertisements under which bids are asked for, and if the Bidder is not the actual owner or lessee of any such equipment, its certificate shall state the source from which the equipment will be obtained, and shall be accompanied by a certificate from the owner or person in control of the equipment required during such time as may be necessary for the completion of that portion of the contract for which it is necessary. Owner expressly reserves the right to reject any bid if the evidence submitted by, and/or investigation of such Bidder fails to satisfy the Owner that such Bidder is properly qualified to carry out the obligation of the contract and to complete the Work contemplated therein.

C. Pursuant to N.J.S.A. 18A:18A-27, all Contractors and Subcontractors shall be prequalified with the State Department of Treasury, Division of Property Management and Construction (DPMC). Refer to Appendix H in Section 00 43 00 Procurement Form Supplements. Bidders must be prequalified in one of the following classifications:

(C008) GENERAL CONSTRUCTION or

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(C009) GENERAL CONSTRUCTION / ALTERATIONS / ADDITIONS &
(C054) SITEWORK

Bidders shall also either be prequalified for, or include documentation for prequalified subcontractors for, the following classifications:
(C030) PLUMBING
(C047) ELECTRICAL
(C060) ATHLETIC FIELDS / TRACKS / COURTS
(C071) ROOFING - METAL

D. Bidders shall comply with the requirements contained in the Notice to Bidders, Instructions to Bidders, Bid Specifications, and other bidding documents. Each Bidder shall submit with its bid, in accordance with N.J.S.A. 18A:18A-32, the Bidder's notarized affidavit that there has been no material adverse change in its qualification information (see Appendix J in Section 00 43 00 Procurement Form Supplements.).

E. (i) Required Bid Forms: All Bidders must review the complete list of procurement form appendices in Section 00 43 00 Procurement Form Supplements. Use and complete Section 00 41 13 Bid Form along with all applicable Section 00 43 00 appendices in full, and compile the completed bid submittal packages (original and 2 copies) with the signed Bid Form on top. **Refer to Bidder's Checklist in Section 00 43 00 Procurement Form Supplements (Page 5) for the complete list presented in the correct order of Appendix attachments to the Bid Package, which instructs when documents are required to be submitted. Some are mandated to be submitted with the Bid, while others are required to be submitted prior to award of contract**. Note that some appendices are required only for the Bidder, while others are required for both the Bidder and listed Subcontractors, as annotated in the Bidder's Checklist of Requirements. If any given appendix is not required at all for this contract, that item in the checklist chart is noted as Not Applicable (N/A), and would therefore not be needed in the compiled bid packages. Use the Section 00 43 00 Bidder's Checklist to ensure a complete Bid submission.

(ii) If the Bidder is a joint venture (JV), care should be taken to note the specific bid submission requirements applicable to JVs.

1. Bid Proposal Form and Affidavit.
2. Appendix **A** – List of Subcontractors.
3. Appendix **B** – List of Unit Prices, if applicable.
4. Appendix **C** – Contract Allowances.
5. Appendix **D** – List of Alternates, if applicable.
6. Appendix **E** – Certificate of Bidder Showing Ability to Perform Contract. If a JV, the Certificate must show the JV's ability to perform.
7. Appendix **F** - Certified Check or Form of Bid Bond. If a JV, the Bid Bond must be submitted on its behalf.
8. Appendix **G** - Consent of Surety. If a JV, the Consent of Surety must be submitted on its behalf.
9. Appendix **L** - Non-Collusion Affidavit. If a JV, the Non-Collusion Affidavit must be submitted on behalf of each entity comprising the JV.

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10. Appendix **M** – Statement of Ownership Form. If a JV, the Statement of Ownership must be submitted by the JV.
11. Appendix **J** - Affidavit of No Material Adverse Change together with following attachments as to the **Bidder. Prior to award, the Successful Bidder shall submit required DPMC prequalification documents for all specialty trade subcontractors not listed in the Bid, for which DPMC classification is required.** If a JV, at least one of the entities comprising the JV must be qualified by DPMC for the applicable trade and all requirements set forth in Appendix J, H, I and X must be submitted by the JV.
12. Appendix **K** – Not required.
13. Appendix **H** - Notice of Classification from DPMC, as issued by the State of New Jersey, Department of Treasury, Division of Property Management and Construction (DPMC) for **Bidder and all listed Subcontractors**.
    a. Appendix **I** - Total Amount of Uncompleted Contracts, DPMC Form 701 for **Bidder and all listed Subcontractors**.
    b. Appendix **X** - Bidder Certification Form for **Bidder and all listed Subcontractors**.
    c. Contractor or Trade License required under applicable New Jersey Law for any trade or specialty area in which the Bidder or Subcontractor(s) will perform work.
14. Other attachments to be submitted by the Bidder and all Subcontractors:
    a. Appendix **N1** - Public Works Contractor Registration Certificate issued by the Department of Labor and Workforce Development indicating compliance with Act, N.J.S.A. 34:11-56.48. Note that the Bidder may provide these copies of the Contractor registration certificates with the bid, but if not, must submit the certificates for the Bidder and all listed Subcontractors prior to the date of contract award, confirming that the Registration was in effect on the date of the bid submission. If a JV, the Public Works Contractor Registration Certificate must be submitted by it.
    b. Appendix **N2** - Business Registration Certificate to perform work in New Jersey, pursuant to N.J.S.A. 52:32-44. Note that the Bidder may provide these copies of the business registration certificates with the bid, but if not, must submit the certificates for the Bidder and all listed Subcontractors prior to the date of contract award, confirming that the Registration was in effect prior to the date of contract award. If a JV, the Business Registration Certificate must be submitted by it.
    c. Certificate of Authority if the Bidder is a foreign corporation. If a JV, the Certificate of Authority must be submitted by it.
15. Appendix **O** - Prevailing Wage Affidavit. If a JV, the Prevailing Wage Affidavit must be submitted by it.
16. Appendix **P** - Equal Opportunity Mandatory Bid Statement. If a JV, the Equal Opportunity Mandatory Bid Statement must be submitted by it.
17. Appendix **Q** - Affirmative Action Affidavit- Exhibit B. If a JV, the Affirmative Action Affidavit must be submitted by it.
18. Appendix **R** – Disclosure Form. If a JV, the Disclosure Form must be submitted by it.
19. Appendix **S** - Statement on Non-Disbarment/Disqualification/Suspension. If a JV, the Statement on Non-Disbarment/Disqualification/Suspension must be submitted by each entity that comprises the JV.

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20. Appendix **T** - Asbestos Acknowledgement Form. If a JV, the Asbestos Acknowledgement Form must be submitted by it.
21. Appendix **U** - Political Contribution Disclosure Affidavit. If a JV, the Political Contribution Disclosure Affidavit must be submitted by each entity comprising the JV.
22. Appendix **V** – N/A.
23. Appendix **W** – Certification of Prohibited Activities in Russia and Belarus is not required for construction contracts. N/A.
24. Appendix W1 Investment Activities in Iran is not required for construction contracts. N/A.
25. Appendix **X** – Sworn Contractor Certification Requirements for both Bidder and all listed Subcontractors for which classification is required. (Item 12.c above) complete with any required Trade Licenses and other attachments referenced in the Certification. If a JV, the Sworn Contractor Certification Requirements must be submitted by it.

F. Bids must be submitted on the form of proposal furnished by the Board. Where the Bidder is a corporation or a partnership, the person submitting the bid must certify that they are duly authorized to submit a bid on behalf of the corporation or partnership (See Appendix **M**). The corporate seal should be affixed to the bid. Where alternates are specified, the Bidder shall indicate on the Bid Form the amount of the alternate(s) to be added or deducted from the base bid by circling the word “add” or “deduct” on the Bid Form. If an alternate item will not result in an increase or decrease in the base bid, the Bidder shall clearly so indicate by stating "zero (0)". The failure to bid an alternate, where specified, by leaving an alternate amount blank or stating "no bid" shall be considered a material defect, resulting in the rejection of the bid. No conditions, limitations, or provision may be placed on a bid. Any non-conforming bid may be rejected as being non-responsive to bid requirements.

G. Pursuant to N.J.S.A. 18A:18A-15, the Board of Education, through its authorized agent shall, upon completion of the contract, report to the State agency listed on the Pre-qualification / Notice of Classification certificate as to the Contractor's performance and shall furnish such report from time to time during performance if the Contractor is then in default.

H. Statement of Ownership. See Appendix **M** – Statement of Ownership Form)
1. Pursuant to N.J.S.A. 52:25-24.2, all forms of corporations and partnerships (including limited partnerships, limited liability companies, limited liability partnerships, and subchapter S corporations) shall submit a statement with their bid which sets forth the names and addresses of all stockholders in the corporation who own 10% or more of its stock or of all partners in the partnership who own a 10% or greater interest therein or members of limited liability companies owning 10% or more interest. If one or more such stockholder or partner or member is itself a business entity, the disclosure shall continue until all individual interest holders owning 10% or more interest in the business entity or any subsidiary thereof shall also be listed The disclosure shall be continued until names and addresses of every non-corporate stockholder and individual partner and member exceeding the 10% ownership criteria have been listed.
2. Any Bidder who does not have any 10% or greater interest holders shall certify to such fact on the form provided.

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3. A form affidavit (Appendix **M – Statement of Ownership**) is included as part of the bidding documents and must be completed by the Bidder. **Failure to submit a Statement of Ownership disclosure document with the bid shall result in rejection of the bid as it cannot be remedied after bids have been opened.**

I. Prevailing Wage Rate

1. The Board shall not award any contract to a Contractor or Subcontractor who is listed or who is on record with the Office of the Commissioner of Education and/or the Department of Labor and Workforce Development, as having failed to pay prevailing wages in accordance with the Prevailing Wage Act. Each Contractor and Subcontractor is required:
   a. To comply with the New Jersey Prevailing Wage Act, N.J.S.A. 34:11-56.47, and pay all workmen and/or subcontractors performing services in connection with the project not less than the prevailing rate of wages as determined by the State Department of Labor and Workforce Development, whereby said prevailing rate of wages are enumerated in the list of prevailing wage rates included as part of the Project Specifications and Contract Documents, are on file in the Board's office and/or the Architect's office and are made a part hereof and incorporated herein by reference.
   b. To obtain the determination issued by the State Department of Labor and Workforce Development that verifies the prevailing wage rates applicable to the Project.
   c. To furnish the Board with an affidavit stating that all workmen have been paid in accordance with the New Jersey Prevailing Wage Act.
   d. Upon request, file verified written statements with the Board certifying the amounts then due and owing to any and all workmen for wages due on account of the work and the names of the persons whose wages are unpaid and the amount due to each.
   e. To submit weekly payroll forms in full compliance with the Prevailing Wage Act.
   f. To keep an accurate record showing the name, craft or trade, and actual hourly rate of wages paid to each workman employed by it in connection with the project. Records shall be preserved for two (2) years from the date of payment.
   g. To post the prevailing wage rates for each craft and classification involved in the work, including the effective date of any changes thereof, in prominent and easily accessible places at the site of the project and at such place or places as are used to pay workmen their wages.

2. In the event that it is found that anyone employed by the Contractor, or any Subcontractor has been paid a rate of wages less than the prevailing wage required to be paid by such contract, the Board may terminate the Contractor's right to proceed with the Work or such part of the Work as to which there has been a failure to pay required wages and to prosecute the Work to completion or otherwise. The Contractor and his Sureties shall be liable to the Owner for any excess costs occasioned thereby.

J. PREVAILING WAGES: CONSTRUCTION, ALTERATIONS, REPAIRS

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1. The State of New Jersey Prevailing Wage Act, Chapter 150 Laws of 1963, as amended with applicable statewide wage rates and for the wage rates for the county of the location of the school district, as published by the Department of Labor and Workforce Development in conformance with N.J.S.A. 34:11-56.25 et seq., shall be included by the Owner in these bid contract documents. Copies of these wage rates shall be attached to and be incorporated into the contract by the Owner, and may be obtained from the State Department of Labor and Workforce Development, and/or viewed at http://lwd.dol.state.nj.us/ the Prevailing Wages Determination Section.

2. Compliance with New Jersey Prevailing Wage Act
   a. Every Contractor and Subcontractor performing services in connection with this project, shall pay all workers a wage rate not less than the published prevailing wage rates, for the locality the work is being performed, as designated by the New Jersey Department of Labor and Workforce Development.
   b. Every Contractor and Subcontractor performing services in connection with this project is required to follow all laws and regulations put forth by the New Jersey Department of Labor and Workforce Development (NJDOL). Any contractor that does not comply with NJDOL regulations shall be included on the Workplace Accountability in Labor List (The WALL). No Contractor may be awarded a contract by the Board of Education if it, or any of its Subcontractors, are appearing on The WALL. If the Contractor or any of its Subcontractors appear on the WALL during the course of the project the contract may be terminated. Reference N.J.S.A. 34:1A-1.16.

3. Certified Payrolls
   a. Every Contractor agrees to submit to the Board of Education a certified payroll for each payroll period within ten (10) days of the payment of wages. The Contractor further agrees that no payments will be made to the Contractor by the Board of Education if certified payrolls are not received by the Board. It is the Contractor's responsibility to ensure timely receipt by the District of certified payrolls. Reference N.J.A.C. 12:60-5.1 (c).
   b. The Contractor shall use the New Jersey Department of Labor and Workforce Development Form MW-562 for certifying payroll records.
   c. Public works contractor registration and payroll certification for public works projects to be completed online at https://njwages.nj.gov/.
   d. Agencies shall receive certified payroll via the Hub and hard copy from contractors and subcontractors.
   e. The New Jerey Wage Hub website link included above provides links to Resources for Contactors:
      1) Register to be a Public Works Contractor.
      2) About the Prevailing Wage Act.
      3) Digital Certified Payroll Form (MW-562).
      4) New Jersey Wage Hub User Guide for Contractors.

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4. Submission of Affidavit
   a. Before final payment, the Contractor shall furnish the Board of Education with an affidavit stating that all workers have been paid the prevailing rate of wages in accordance with State of New Jersey requirements. The Contractor shall keep an accurate record showing the name, craft, or trade and actual hourly rate of wages paid to each workman employed by it in connection with this Work.
   b. Furthermore, before final payment is made by the Board of Education, the Contractor(s) and each Subcontractor shall file written statements with the Board of Education certifying to the amounts then due and owing to any and all workmen for wages due on account of the Work, setting forth therein the names of the persons whose wages are unpaid and the amount due to each respectively. The statements shall be verified by the oaths of the Contractor or Subcontractor, as the case may be, that it has read such statement subscribed by it, knows the contents thereof, and that the same is true of its own knowledge; provided, however, that nothing herein shall impair the right of a Contractor to receive final payment because of the failure of any subcontractor to comply with provisions of this act. Reference N.J.S.A. 34:11-56.33.

5. Posting of Prevailing Wages
   a. The Contractor and Subcontractor shall post the prevailing wage rates for each craft and classification involved in the Work, including the effective date of any changes thereof, in prominent and easily accessible places at the Site of the work and in such place or places as used to pay workmen their wages. Ref. N.J.S.A. 18A:7G-23 and N.J.S.A. 34:11-56.32. Copy of the Prevailing Wage Determination for this project shall be attached to the contract.

6. Prevailing Wages Certification—Submission with Bid
   a. The Bidder shall submit a Prevailing Wages Certification with its bid package. (See Appendix **O**).

7. Non-compliance Statement
   a. If it is found that any worker, employed by the Contractor or any subcontractor covered by said contract, has been paid a rate of wages less than the prevailing wage required to be paid by such contract, the Board of Education, may begin proceedings to terminate the Contractor's or subcontractor's right to proceed with the Work, or such part of the Work as to which there has been a failure to pay required wages and to prosecute the Work to completion or otherwise. The Contractor and its sureties shall be liable for any excess costs occasioned thereby to the public body.

8. Lowest Bidder Added Prevailing Wage Certification = if Bid lower by 10%.
   a. Any Bidder who makes the lowest bid for the contract by ten (10 %) percent or more less than the amount of the next lowest bid shall, prior to the award of the contract, certify to the Board of Education on a form provided by the Board, that the prevailing wage rates required by the

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Prevailing Wage Act shall be paid in performing the Work under the contract.

b. If the Bidder does not provide the certification required prior to the award of the contract, the Board of Education shall award the contract to the next lowest responsible and responsive Bidder. Reference N.J.S.A. 34:11-56.27 (a); N.J.A.C. 12:60-9.1.

K. Public Works Contractor Registration Act

1. All Bidders and Subcontractors (as defined in N.J.S.A. 34:11-56.50) are to comply with the Public Works Contractor Registration Act N.J.S.A. 34:11-56.48 – 56.57, by registering with the NJ Department of Labor and Workforce Development, Division of Wage and Hour Compliance. No Contractor shall bid on or engage in any contract for public work as defined in N.J.S.A. 34:11-56.26 unless the Contractor is registered pursuant to this Act. Each Bidder is required to submit proof of registration of the Bidder and all Subcontractors identified in such bid prior to award of contract. (See Appendix **N1** and **N2**).

L. Non-Collusion

1. No official or employee of the Board who is authorized in their official capacity to negotiate, make, accept, approve, or to take part in such decision regarding a contract in connection with a school facilities project shall have any financial or other personal interest in any such contract. The Board and its officers and employees shall comply with the School Ethics Law, N.J.S.A. 18A:12-21 et seq. and N.J.A.C. 6A:28 et seq.
2. No Bidder shall directly or indirectly enter into any agreement, participate in any collusion, or otherwise take any action in restraint of free, competitive bidding in connection with this project.
3. A form affidavit of non-collusion (Appendix **L**) is included as part of the bidding documents and must be completed by the Bidder.

1.15 SUBCONTRACTORS

A. The Owner reserves the right to reject a proposed Subcontractor for reasonable cause. Rejection of a named Subcontractor is mandatory cause for rejection of Bid.

B. Refer to AIA Document A201-2017, Article 5 of General Conditions and the supplemental conditions contained in the Project Manual.

1.16 SUBMISSION PROCEDURE

A. Bidders shall be solely responsible for delivery of Bids in the manner and time prescribed in Advertisement for Bids.

B. **Submit one (1) original and two (2) copies** of the executed Bid offer and all required documentation on Bid Forms provided, signed, and sealed with required security deposit in a closed opaque envelope, clearly identified with Bidder's name, Project name and number, and Owner's name on the outside of the sealed envelope.

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C. The Owner is a public school system exempt by law from the payment of New Jersey Sales and Use taxes relative to the performance of the Work. Do not include such taxes or the cost of the bid deposit in the base bid.

D. An abstract summary of submitted Bids can be made available to all Bidders following the bid opening.

1.17 BID INELIGIBILITY

A. Proposals may be rejected for an omission, alteration, or addition to the prescribed form of proposal. However, the Owner hereby reserves the right to waive minor immaterial defects in accordance with applicable law. The Owner reserves the right to make such Base Bid award and/or Alternate awards as allowed by law. The Owner also reserves the right to reject all bids, making no award, as permitted under provisions of N.J.S.A. 18A:18A-22.

B. Bids that are unsigned, improperly signed or sealed, conditional, illegible, obscure, contain arithmetical errors, erasures, alterations, or irregularities of any kind, may be declared unresponsive pursuant to applicable law. Bid Forms, Appendices, and enclosures that are improperly prepared may be declared unresponsive pursuant to applicable law.

C. Failure to provide security deposit, bonds, or insurance requirements within prescribed timeframes may result in rejection of the Bid pursuant to applicable law.

1.18 BID GUARANTEE / CONSENT OF SURETY

A. Each Bid must be accompanied by a Certified Check, Cashier's Check, or Bid Bond payable to the Educational Services Commission of New Jersey in the amount of 10% of the Bid, but not in excess of $20,000.00 (Appendix **F**). The Bid must also be accompanied by a certificate from a Surety Company authorized to do business in the State of New Jersey certifying that said Company will provide the Bidder with the bonds required by 1.19 of these Instructions, in the event that the Bidder is awarded the Contract, which is commonly referred to as a "Consent of Surety" (Appendix **G**).

B. Failure to sign the bid bond by either the Surety or Principal, and/or failure to submit the properly executed bid bond with the bid package, shall be deemed cause for disqualification and rejection of the bid.

C. Failure to sign the Certificate (Consent) of Surety by either the Surety or Principal, and/or failure to submit the properly executed Certificate (Consent) of Surety with the bid package, shall be deemed cause for disqualification and rejection of the bid.

D. All bid bonds or checks except those of the three lowest Bidders shall be returned after ten (10) days from the opening of the bids, Sundays and holidays excepted. Once the bid security is returned, the bids of such Bidders shall be considered as withdrawn. The remaining bid bonds or checks will be returned within three (3) days, excluding Sundays and holidays, after the awarding of the contract and the approval of the Contractor's performance and payment bond and Certificate(s) of Insurance, or in the event that all bids are rejected by the Board No interest will be allowed to accrue on the bid security deposit.

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E. The Surety Company for any bid bond submitted pursuant to paragraph A above shall be a corporate surety licensed and authorized to do business within the State of New Jersey. If an attorney-in-fact signs a bid bond, performance bond, payment bond, maintenance bond, or certificate of surety, a certified and effectively dated copy of the power-of-attorney shall accompany each bond or consent.

F. If the successful Bidder fails to furnish the required Contract Documents and all guarantees, insurance, and other items required within ten (10) days from the date of "Notice of Acceptance" the Bidder will be in default, the award of the contract may be rescinded and awarded to the next lowest responsible Bidder. In such event, the bid security shall be retained by the Owner and executed upon for the difference between the rescinded contract and the contract awarded. If the additional cost is less than the bid security, any excess will be refunded to the defaulted contractor. If the additional cost of the contract awarded to the next lowest Bidder exceeds the bid security, the defaulted Contractor shall be liable to the Owner for all excess costs incurred because of the default.

G. The cost of the bid bond shall be paid by the Bidder and not be included in the bid price.

1.19 CONTRACT BONDS

A. Within ten (10) days after notification of the contract award, the successful Bidder shall deliver to the Owner both a performance bond in the amount of 100% of the accepted bid as security for the faithful performance of the contract and a payment bond in statutory form also in the amount of 100% of the accepted bid guaranteeing the prompt payment of all indebtedness incurred by the Contractor or his Subcontractors for supplies, materials, or labor furnished in connection with the contract.

B. The performance bond and the payment bond may be combined in a single instrument. Bonds shall be subject to the Owner's approval, conform to the requirements of N.J.S.A. 2A:44-133 through 147 and be issued by a corporate surety authorized to do business in New Jersey as of the date the contract is signed. If, at any time, either the performance bond or the payment bond or both shallbe found to be statutorily deficient, the Contractor shall furnish, at no expense to the Owner, a new or additional bond satisfactory to the Owner within seven (7) days after receipt of notice to do so.

C. When the Contractor considers the Work substantially complete, the Contractor shall provide the Owner with a maintenance bond subject to the Owner's approval, executed by a surety authorized to do business in New Jersey in the amount of 100% of the final contract sum, guaranteeing the faithful performance of the Bidder's obligation to remedy at its expense any defects which may develop within two (2) year(s) from the date on which the entire Work is fully complete and accepted, provided such defects, in the Owner's judgment, are caused by defective or inferior materials or workmanship.

D. The Contractor shall include the cost of all contract bonds in the Bid Price and shall identify the cost when requested by the Owner.

1.20 INSURANCE

A. It is expressly understood that the Contractor's liability on this project includes the cost of repairs to any damage to the existing building or facility and its grounds and surrounding

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area that were caused by the Contractor during the construction project. In a case where the actual cost of the damage cannot be definitively established, the Owner's Architect shall make a tentative determination of the approximate cost to repair the damage, and this amount shall be deducted from any progress payments until such point in time when actual repair cost can be calculated. To establish a common understanding of facility conditions prior to the start of Work, the Contractor, the Owner, and the Owner's Architect will inspect the buildings and grounds initially to determine a baseline for future inspections, including creation of a photographic record of visible principal locations and existing features. Occurrences of damage will be tracked in the project record, including notation of discovery date, description of condition, whether insurance claim is filed, and resolution date. At resolution of a damage and repair condition, any sums being held on account of that damage occurrence will have any preliminary hold amount released. At the point of substantial completion for the project, the Contractor, the Owner, and the Architect will convene to resolve final satisfaction of any remaining damage occurrences, which must resolve to the satisfaction of the Owner prior to project completion.

B. The Contractor shall provide the required insurance to the Board of Education together with evidence of such insurance as stated below before construction begins. The Contractor must provide evidence of all liability and workers' compensation policies with a certificate of insurance and policy endorsement setting forth the names of additional insureds. A copy of the builders' risk policy shall be provided as evidence of this coverage. All Certificates of Insurance shall include the following cancellation notice provision "Should any of the above-described policies be cancelled before the expiration date thereof, the issuing company will mail Sixty (60) days written notice to the certificate holder named to the left."

C. All Certificates of Insurance shall name the Contractor and identify the Project Name and School Name that are involved in the Project. All the Contractor's policies, with the exception of workers' compensation, shall be endorsed naming the Board of Education, its elected and appointed officials, and employees as additional insureds. The Contractor must also name the State of New Jersey, the NJDOE, and the Architect and staff as additional insured with respect to the Work. All policies shall require that the insured will pay all defense claims and any judgments entered therein. It is expected that all policies will be issued on an occurrence basis. The Board of Education may waive or modify any requirement stated herein if the Board of Education, in its sole judgment and discretion, deems it would be in its best interest to do so.

1. Workers' Compensation

   The Contractor shall obtain Standard New Jersey Workers' Compensation Insurance. Employer's Liability limit of $500,000 each accident shall be included. If the Contractor is incorporated outside the State of New Jersey, the policy must include the "Other States Endorsement."

2. General Liability

   The Contractor shall obtain General Liability Insurance on an occurrence basis with five million dollars ($5,000,000) combined single limit liability per occurrence. (The General Liability Limit may be combined with an Excess Liability Limit to have a total of $5,000,000 per occurrence).

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The policy will use the ISO Simplified Occurrence Form. The policy will contain no endorsements that would limit or eliminate the coverage provided by the ISO version. The policy must include ISO Form CG-25-03-97 Amendment-Aggregate Limits of Insurance (per project).

The limit of the General Liability policy and the Excess Liability policy may be combined to meet these requirements.

See Section 00 73 00a "Attachment – Modifications to General and Supplementary Conditions" Article 11 – Insurance and Bonds for additional information.

3. Automobile Liability

The Contractor shall obtain Automobile Liability Insurance with a minimum combined limit of liability of one million dollars ($1,000,000) per accident. The policy must include coverage for owned, non-owned and hired autos.

See Section 00 73 00a "Attachment – Modifications to General and Supplementary Conditions" Article 11– Insurance and Bonds for additional information.

4. Umbrella / Excess Liability

See 2 and 3 above.

See Section 00 73 00a "Attachment – Modifications to General Conditions" Article 11– Insurance and Bonds for additional information.

5. Builders Risk

The Contractor shall obtain and pay for within their bid amount, a Builder's Risk Policy providing coverage for all risk of physical loss or damage to the property in an amount equal to the total project value, less excavations and foundations. The policy must be maintained for the duration of the project from the beginning of construction until written acceptance by Architect, or substantial completion, and a temporary certificate of occupancy or certificate of occupancy has been issued. A copy of the policy must be delivered to the Board of Education before construction begins. All the Contractor's policies, with the exception of workers' compensation, shall be endorsed naming the Board of Education, its elected and appointed officials, and employees as additional insureds. The Contractor must also name the State of New Jersey, the NJDOE, and the Architect and staff as additional insured with respect to the Work on this Project.

D. If any of the foregoing policies shall become unsatisfactory to the Board of Education, as to form or substance, or if a company issuing any such policy shall be or become unsatisfactory to the Board of Education, the Contractor shall, upon notice to that effect from the Board of Education, have sixty (60) days to obtain a new policy, submit the same to the Board of Education for approval and submit a Certificate thereof as hereinabove provided. Upon failure of the Contractor to furnish, deliver, and maintain such insurance

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as required, the Board of Education may suspend and/or terminate the contract. All policies required above shall contain a sixty (60) day notice of cancellation and/or non-renewal and shall require the insured to notify the Board of Education of its intent to either cancel or not to renew immediately.

E. The Contractor shall use an Insurance Company(ies) that has (have) an A.M. Best rating of at least A: XV. All such requests must be submitted with the bid, with documentation justifying the request and providing a listing of the Insurance Company(s) that the Contractor is proposing to use to the Board of Education for its review and approval. The Contractor shall use an insurance company(s) that is / are authorized to underwrite insurance risks for the specific line(s) of coverage by the Department of Banking and Insurance of the State of New Jersey.

1.21 BID FORM REQUIREMENTS

A. Complete required information in Section 00 41 13 "Bid Form – Stipulated Sum (Single-Prime Contract)" and Section 00 43 00 "Procurement Form Supplements." Attach copies of other stipulated documents as requested. Submit the original and specified number of copies of the completed bid package indicated in these instructions. The Bid Form should be the top document on each assembled Bid Package.

1.22 FEES FOR CHANGES IN THE WORK

A. Refer to section 01 26 00 "Contract Modification Procedures" identifying the allowance for overhead and profit which will be used by the Bidder for changes in the Work on Bidder's own Work and Work by Subcontractors, whether additions to or deductions from the Work on which the Bid Price is based.

1.23 BID FORM SIGNATURE

A. Sign Bid Form, as follows:
   1. If the Bidder is a sole proprietor, its owner shall sign the form and insert "Owner" in the space for "Title."
   2. If the Bidder is a partnership, a partner shall sign the form and insert "Partner" in the space for "Title."
   3. If the Bidder is a corporation or other business entity, an officer authorized by the corporation to execute contracts shall sign the form and insert the name of their corporate title (for example, "president" or "secretary") in the space provided. The corporate seal must be affixed.
   4. If the Bidder is a joint venture, state the name of each entity undertaking the project and complete the rest of the form as appropriate to each such form of entity, in accordance with the above instructions. The Bidder must include a copy of the joint venture agreement with its bid. The role of each individual entity in the joint venture must be disclosed with the agreement.

B. By signing the Bid Form, the signer certifies and warrants that they are authorized to execute the proposal on behalf of the Bidder.

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1.24 ADDITIONAL BID INFORMATION

A. Assignment/Subcontract
1. The Bidder to whom the contract is awarded (hereinafter referred to as "Contractor") may not assign this contract to any person, partnership, or corporation nor may it subcontract any part of the Work required to be performed under the contract without obtaining the prior written approval of the Board.
2. Any assignee or successor in interest to the contract who is approved by the Board shall be bound by the terms of this contract.
3. Any Subcontractor approved by the Board shall be bound by the terms of this contract.

B. Receipted Bills for Materials, Etc.
1. It is hereby understood and agreed that no payments after the first payment shall be made by the Owner to any Contractor for materials delivered and accepted during any month covered by this contract or any work done or labor furnished during the same period, unless and until receipts and any and all other vouchers showing payment by the Contractor for materials and labor, including payments to subcontractor from the preceding payment to Contractor on the same basis set forth in the Certificate for Payment, having been filed with the Owner and annexed to the Certificate covering said payment applied for; anything to the contrary in any of the Contract Documents referred to herein notwithstanding.
2. It is further agreed and understood that the Contractor will require all subcontractors within thirty (30) days after any payment is made to subcontractors to submit sufficient proof of payment, covering both labor and material men so that the Contractor is satisfied that no stop notices can be filed against him for any money due the subcontractor or their labor or material men.
3. Contractor must provide proof of insurance covering all stored material.

C. Release of Liens
1. Neither the final payment nor any part of the retained percentage shall become due until the Contractors shall deliver to the Owner a complete Release of All Liens and Indemnification on the form included in these specifications, arising out of this Contract and an affidavit that so far as he has knowledge or information, the releases include all labor and material for which a lien could be filed, but the Contractor may, if any Subcontractor refuses to furnish a release in full, furnish a bond satisfactory to the Owner, to indemnify the Owner against any liens. If any claim remains unsatisfied after all payments are made, the Contractor shall indemnify, defend, and hold harmless the Owner and refund to the Owner all monies that the latter may be compelled to pay in discharging such a lien, including all costs and reasonable attorney's fees.

D. Board's Right to Occupancy
1. The Owner reserves the right to occupy any portion of the premises prior to the completion and acceptance of the project.
2. The occupancy of any portion of the premises does not constitute an acceptance of any Work nor does it waive the Board's right to demand completion of the Work in accordance with the contract documents or pursue any remedy it may have under contract or law.

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3. All personnel or agents of the Contractor shall observe all rules and regulations in effect at the Owner's premises. Employees or agents of the Contractor, while on the Owner's property, shall be subject to the control of the Owner, but under no circumstances shall such persons be deemed to be employees or agents of the Owner. Contractor's personnel are required to sign in at the Main Office each time they report for service.
4. Contractor's personnel are not to engage in any activities with the students, staff or other Owner's employees unless duly authorized to do so in writing by the Business Administrator or Superintendent of schools. Contractor's personnel are to wear uniforms whenever possible. All contracted personnel are required to wear, at all times, an identification badge with a photograph that identifies the name of the individual and the firm for which they are employed. Contractors shall assume full responsibility for the actions of all personnel in their employ. Contractors shall maintain proper supervision of the Work in progress at all times.
5. All personnel used by the Contractor for the performance of this Work shall be properly trained and qualified for work of this type and shall have at least the minimum ability and experience for his classification. Owner reserves the right to refuse to accept services from any personnel deemed by the Owner or its representative to be unqualified, disorderly, or unable to perform assigned work. The Contractor shall provide evidence of qualifications for any personnel performing work under contract upon request.
6. Owner (and/or the Owner's Representatives) reserves the right to direct the removal from the site of any person, equipment and/or entity which displays inappropriate behavior, including but not limited to, alcohol consumption, drugs, fighting, intimidating or disruptive behavior, vandalism, theft, smoking, improper storage, illegal acts, unfit persons, etc.
7. Contractor is required to provide background checks performed within the last year on all personnel who will be working on the project for Owner's review, acceptance, and retention of permanent record.
    a. Within five (5) days of receipt of Notice to Proceed, Contractor must submit a list of individuals (who will be employed for the school facility project by the Contractor and all subcontractors) that will be undergoing a criminal history record check. The Contractor's liaison with the Board of Education shall provide a copy of such list of employees to the District Superintendent's office and Human Resource Director through the School Business Administrator, as these offices will receive any adverse action correspondence from the NJ Department of Education (DOE) Office of Student Protection (OSP) related to the criminal history record check process.
    b. No employee of a contract service provider shall commence work at a school facility without having first obtained an approval for employment from the Office of Student Protection (OSP).
    c. Approvals for employment for these types of contracted employees shall be maintained with the Contractor's liaison, with copies forwarded to the Superintendent's Office.
    d. For information or clarification on the requirements for criminal history record checks, contact the NJDOE's Office of Student Protection at (609) 376-3999. Access to the OSP web address is available at: https://www.nj.gov/education/crimhist. Under the heading of Office of Student Protection, click on the Home page link to see initial instructions

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for application. Contractors not already having obtained their own contractor code should coordinate the application process through the School Business Administrator to use the school district's access code, by providing the full list of employees seeking application, and pay the related application fees. Note that this application process takes a minimum of fourteen (14) days for application review and processing.

e. On all prime contracts, the obligation to obtain approval for all employees who will be working at the school site extends to the level of Subcontractors for whom the Prime Contractor is responsible.

E. Access and Record Retention

1. The successful Bidder shall permit the Department of Community Affairs, Department of Education, the Department of Labor and Workforce Development and their duly authorized agents to investigate, audit, examine, and inspect in such manner and at such times as the Department of Community Affairs, the Department of Education, the Department of Labor and Workforce Development and their agents deem necessary. The New Jersey Office of the State Comptroller (OSC) shall have the right to have access to all work product produced in connection with audits made by the District or its accountant or by the contracted parties or their accountants.
2. The successful Bidder shall keep those records and accounts for the school facilities project as necessary in order to evidence compliance with the Educational Facilities Construction & Financing Act, N.J.S.A. 18A:7G-1 et seq. the Public School Contracts Law, N.J.S.A. 18A:18A-1 et seq., and all applicable regulations and requirements. Financial records, supporting documents, and all other records of the successful Bidder which relate in any way to the school facilities project shall be retained for ten (10) years following closeout, provided however, if any litigation, claim, or audit relating to the school facilities project is commenced prior to closeout. Such records and documents shall be retained until all litigation, claims, or audit findings involving the records have been fully resolved.
3. Pursuant to N.J.A.C. 19:70-1.1 et. seq., the Contractor shall maintain all documentation related to products, transactions, or services under this Contract for a period of five (5) years from the date of final payment. Such records shall be made available to the New Jersey Office of the State Comptroller (OSC) upon request.

F. Progress Payments

1. All payments shall be made in accordance with N.J.S.A. 2A:30A-1 et seq., the Prompt Payment Act. In accordance with the Prompt Payment Act, the Owner may with respect to the whole or a part of any monthly payment, not certify or approve payment, to such extent as may be necessary, to protect against loss on account of defective work not remedied or any form of payment claims against the Contractor that may subsequently have accrued. The Owner will provide a written statement of the amount not approved and the reason for same. All disputes regarding whether a party has failed to make payments pursuant to N.J.S.A. 2A:30A-1 et seq. may be submitted to a process of alternative dispute resolution.

G. Final Acceptance

1. The retainage as specified in Document 00 73 00a, "Modifications to the General Conditions," paragraph 9.3.1.3, shall be withheld until the Owner approves the

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Architect's determination that the Work has been satisfactorily completed and no unsettled claims exist. The final acceptance shall not be binding or conclusive upon the Owner should it subsequently discover that the Contractor has supplied inferior material or workmanship or has departed from the terms of its contract. Should such a condition arise, the Owner shall have the right, notwithstanding final acceptance and payment, to cause the Work to be properly done in accordance with the drawings and specifications at the cost and expense of the Contractor. Upon the presentation of a duly executed voucher, the contract amount shall be paid within thirty (30) days of completion of the project, including the submission of an application for payment approved by the Architect, all closeout documents, training sessions, and the production of the maintenance bond, manufacturer's warranty, and release of lien. A certificate requesting payment with the attached documentation shall be submitted on or before the billing date. In accordance with N.J.S.A. 2A:30A-2, the billing date is established fourteen (14) days prior to the regular meeting of the Owner.

H. Performance Evaluation

1. The District shall continually monitor the Contractor's performance to assure that time schedules are being met and that the completion of the school facilities project will occur in a timely, efficient, and effective manner. In the event of noncompliance, including but not limited to, default of any contracted party under any contract, or in the event of a breach of warranty with respect to any contract, the District shall reasonably exhaust the remedies against the defaulting contracted party and against each such surety for the performance of such contracts. The District shall diligently prosecute or defend any action or proceeding, or take any other action involving the contracted party that the District deems reasonably necessary or as recommended or required by any governmental authority with jurisdiction over the project.

I. Payment Schedule

1. Any contract, the total price of which exceeds $100,000.00, entered into by a Board of Education involving the construction, reconstruction, alteration, repair or maintenance of any building, structure, facility or other improvement to real property, shall provide for partial payments to be made at least once each month as the work progresses, unless the contractor shall agree to deposit bonds with the board of education pursuant to section 2 of P.L.1987, c.343 (C.18A:18A-40.2). All disputes regarding whether a party has failed to make payments pursuant to N.J.S.A. 2A:30A-1 et seq. may be submitted to a process of alternative dispute resolution. 5% of the amount due on each partial payment shall be withheld by the Board of Education pending completion of the contract if the contractor does not have a performance bond. If the contractor does have a performance bond, 2% of the amount due on each partial payment shall be withheld by the board of education when the outstanding balance of the contract exceeds $500,000, and 5% of the amount due on each partial payment shall be withheld by the Board of Education when the outstanding balance of the contract is $500,000 or less.

J. Warranty

1. In addition to the warranties set forth in the contract documents, the Bidder warrants that:

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a. All materials and equipment furnished under this contract shall be new unless otherwise authorized by the Board. Any applicable manufacturer's warranties shall be transferred to the Board.

b. Title to all Work, materials, and equipment will pass to the Owner free and clear of all liens, claims, security interests, or encumbrances.

c. All materials, equipment and Work will be furnished in a workmanlike (Industry Standard) manner and be of good quality, free from faults and defects, and will be in conformance with the contract documents and all applicable federal and state statutory requirements and administrative regulations. Work not conforming to these requirements, including substitutions not properly approved and authorized, may be considered defective. The Contractor's warranty excludes remedy for damage or defect caused by abuse, modifications not executed by the Contractor, improper or insufficient maintenance, improper operation, or normal wear and tear under normal usage. If required by the Architect, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment. A **two (2) year** guarantee of the materials, equipment and work shall commence from the date established by the Owner as of the date of substantial completion for the entire project. This will apply to all materials and equipment (including but not limited to HVAC equipment) that the Owner may begin to use prior to the established date of substantial completion.

d. During the twenty-third month after the date of substantial completion of the work, the Owner, Architect, and the Contractor shall review the work to confirm the requirements of the Contract have been satisfied. Any corrective work necessary will be addressed at that time, prior to expiration of the warranty. The requirement will not modify any of the Contractor's obligations relative to warranties that are in effect.

e. If within **two (2) years** after substantial completion of the project any portion of the materials, equipment and Work is found to be defective or not in accordance with the contract documents, the Contractor shall correct the problem at its own cost and expense. The payment of the contract sum shall not constitute an acceptance of the Work not performed in conformance with the contract documents.

f. Any applicable warranties shall be transferred to the Board by the Contractor at no additional cost or expense to the Board.

K. Liability

1. The Contractor shall assume full responsibility and liability for any and all injuries to any person and any and all damages to any property resulting from or in connection with the project which are caused by any error, omission, or negligent act of the Contractor, its agents and employees, and any Subcontractor which it may employ.
2. The Contractor shall be liable for any and all damages caused by a breach of the terms of the contract documents.

L. Indemnification

1. To the fullest extent permitted by law, the successful Bidder (also referred to herein as the "Contractor") shall indemnify and hold harmless the Owner, the Architect and any of its Consultants, the Engineer, and Construction Manager (if any), the

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State of New Jersey, the New Jersey Department of Education, their respective agents, officers, employees and servants, from any and all claims, demands, suits, damages, costs and expenses, including reasonable attorney's fees, whether or not caused, in part by any party indemnified hereunder, arising out of or in any way related to the project, as more particularly set forth in Article 3.18 of the AIA Document A201, General Conditions of the Contract for Construction, and including but not limited to the following:

a. the acts or omissions of the Contractor, its agents, servants, officers, employees, subcontractors, subconsultants or any other person working at the Contractor's request, subject to is discretion, or on its behalf;
b. the loss of life or property, or injury or damage to the person, body, or property of any person or persons whatsoever, that arises or results directly or indirectly from performance of the Work or delivery of deliverables by the Contractor, its agents, servants, officers, employees, subcontractors, subconsultants, or any other person acting at the Contractor's request, subject to its direction, or on its behalf, including any claims arising out of or resulting from the Contractor’s payment or nonpayment to Subcontractors, Sub-subcontractors, suppliers, fabricators, sources of supply, articles, devices, fixtures, pieces of equipment, materials, processes proposed for each item of work (referred to herein and elsewhere in this agreement as “subcontractors and materials suppliers”);
c. any negligence, default, breach, or errors or omissions of the Contractor, its agents, servants, officers, employees, Subcontractors, Subconsultants, or any other person acting at the Contractor's request, subject to its direction, or on its behalf;
d. violation or non-compliance, with federal, state, local, municipal laws and regulations, ordinances, building codes (including without limitation the Americans with Disabilities Act, OSHA, Environmental Protection Act) arising from the performance or non-performance of; or arising out of conditions created or caused to be created by, the Contractor, its agents, servants, officers, employees, Subcontractors, Subconsultants, or any other person acting at the Contractor's request, subject to its direction, or on its behalf;
e. the use, misuse or failure of any equipment, workmanship, and materials, and
f. the use of copyrighted or uncopyrighted materials, composition, secret process, patented or unpatented invention, article, or appliance furnished or used in the performance of the Work.

2. The Board may defend itself, at the Bidder's expense, from any claim or lawsuit or the Board may elect to have the Bidder provide the Board with legal representation at the Bidder's own expense.
3. The Indemnification obligations of the Contractor shall be deemed to include the indemnification obligations of the Contractor's Subcontractors and suppliers.
4. The indemnification obligations of the Contractor shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for the Contractor or any Subcontractor under Workmen's Compensation Acts, Disability Benefit Acts, or other Employee Benefit Acts. Such obligation shall not be construed to negate, abridge, or diminish other rights or obligations of indemnity which would otherwise exist as to any party or person indemnified herein.

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5. The Bidders acknowledge and agree that the obligations and duties of the Architect, if any, under the Architect's agreement with the Owner, are solely for the benefit of the Owner, that notwithstanding any action of the Architect in connection with the Project the Architect shall not in any respect be deemed to have assumed any duties or obligations in favor of the Bidder, and that the Architect is acting as agent of the Board to the extent provided herein.
6. The provisions of this section entitled “Indemnification” shall survive the termination of the contract documents.

1.25 SELECTION AND AWARD OF ALTERNATES

A. Indicate variation of Bid Price for alternates listed in Document 00 43 00 “Procurement Form Supplements.” This form requests a "difference" in Bid Price by adding to or deducting from base Bid Price.

B. Bids will be evaluated on total of Base Bid Price with full consideration of alternates selected for acceptance by the Board. The Board reserves the right to consider and award alternates, if any, in the order and / or combination that the Board deems, at their sole discretion, to be in their best interest.

1.26 BID OPENING

A. Bids will be opened publicly immediately after time for receipt of Bids as outlined in Advertisement for Bids. Bidders may be present and may ask to view any of the bids at that time immediately following the Owner’s opening procedures, and under the Owner’s observation. If health emergency circumstances or other governmental restrictions on open public meetings are in effect that prevent the conducting of an attended public bid opening, the Board of Education will announce such changed conditions as required by authorities having jurisdiction.

1.27 DURATION OF OFFER

A. Pursuant to N.J.S.A. 18A:18A-36a, the Board of Education shall award the contract or reject all bids within sixty (60) days of bid opening. Submitted Bids shall remain open to evaluation, acceptance, and shall be irrevocable for that sixty (60) day period, except under conditions described in this section.

B. Bids of any Bidders who consent to an extension requested by the Board of Education may be held for consideration for such longer period as may be agreed to in writing.

1.28 ACCEPTANCE OF OFFER / AWARD OF CONTRACT

A. An award of contract will be made, if at all, to the lowest responsible Bidder who has complied with the requirements of the Project Manual, Contract Documents, and Specifications. The Board of Education reserves the right to reject all bids and waive minor informalities in the bidding process in accordance with applicable law. The contract, if awarded, shall be awarded to the lowest responsible Bidder whose bid is responsive in all material respects to the bid requirements. No bid shall be deemed accepted until the adoption of a formal resolution by the Board of Education.

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1. In the event that two low bids are proposed for the selected award configuration that are for identical dollar amounts, the Board of Education will follow the provisions of N.J. S. A. 18A:18A-37.d in deciding upon which bid to base the contract award.

B. Such a Bidder shall present the skill, ability, and integrity necessary for the faithful performance of the Work.

C. Such Bidder shall also assure that submittals for all Contractor registration and business registration certificates and Certification of Non-Debarment for Federal Contracts as required by law and these instructions, have been submitted and received by the District prior to the date of contract award. Any delay in contract award resulting from the Owner not having such required submittals from the successful Bidder by the required deadline shall be at the sole responsibility of the Bidder.

D. After acceptance by the Owner, the Architect on behalf of the Owner will issue to the successful Bidder a Standard Form of Agreement between Owner and Contractor (AIA Document A101 – 2017) and the General Conditions of the Contract for Construction (AIA Document A201 – 2017), as amended by the Owner acceptable to the Board Attorney for execution. The Bidder to whom the contract is awarded shall execute the contract and return it to the Owner, together with the Certificates of Insurance and Contract Bonds required by the Contract Documents, within ten (10) days after notification of the contract award.

E. All bid guarantees will be returned as described in paragraph 1.18 BID GUARANTEE / CONSENT OF SURETY, subparagraph D.

F. If the lowest responsible Bidder is not a resident of the State of New Jersey, then the Bidder shall designate a proper agent in the State upon whom process may be served as a condition precedent for the awarding of the contract. If the lowest responsible Bidder is a foreign corporation (incorporated outside the State of New Jersey) then the awarding of the contract and payment of consideration thereunder is conditioned upon the Bidder filing a Certificate of Authority to transact business in the State of New Jersey and complying with the provisions of N.J.S.A. 14A:13-1 *et seq*. Refer also to paragraph 1.29 BUSINESS REGISTRATION below.

G. After notification of award, but prior to signing a construction contract, the Contractor shall submit to the public agency compliance officer and the Division of Public Contracts Equal Employment Opportunity Compliance, an initial project workforce report (Form AA 201) in accordance with N.J.A.C. 17:27:7.1 *et seq*. The Contractor also agrees to submit a copy of the Monthly Project Workforce Report once a month thereafter for the duration of this contract to the Division and to the public agency compliance officer. If the construction Contractor does not submit Form AA-201 as required herein, the Board of Education will declare the Contractor non-responsive, rescind the award, and award the contract to the next lowest responsible Bidder.

1.29 BUSINESS REGISTRATION

A. Pursuant to N.J.S.A. 52:32-44, the Educational Services Commission of New Jersey ("Contracting Agency") is prohibited from entering into a contract with an entity unless the

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Bidder/Proposer/Contractor, and each Subcontractor that is required by law to be named in a bid/proposal/contract has a valid Business Registration Certificate on file with the Division of Revenue and Enterprise Services within the Department of the Treasury.

B. Prior to contract award or authorization, the Contractor shall provide the Contracting Agency with its proof of business registration and that of any named Subcontractor(s).

C. Subcontractors named in a bid or other proposal shall provide proof of business registration to the Bidder, who in turn, shall provide it to the Contracting Agency prior to the time a contract, purchase order, or other contracting document is awarded or authorized.

D. During the course of contract performance:

1. the Contractor shall not enter into a contract with a Subcontractor unless the Subcontractor first provides the Contractor with a valid proof of business registration.
2. the Contractor shall maintain and submit to the Contracting Agency a list of subcontractors and their addresses that may be updated from time to time.
3. the Contractor and any Subcontractor providing goods or performing services under the contract, and each of their affiliates, shall collect and remit to the Director of the Division of Taxation in the Department of the Treasury, the use tax due pursuant to the Sales and Use Tax Act, (N.J.S.A. 54:32B-1 *et seq*.) on all sales of tangible personal property delivered into the State. Any questions in this regard can be directed to the Division of Taxation at (609)292-6400. Form NJ-REG can be filed online at http://www.state.nj.us/treasury/revenue/busregcert.shtml.

E. Before final payment is made under the contract, the Contractor shall submit to the Contracting Agency a complete and accurate list of all Subcontractors used and their addresses.

F. Pursuant to N.J.S.A. 54:49-4.1, a business organization that fails to provide a copy of a business registration as required, or that provides false business registration information, shall be liable for a penalty of $25 for each day of violation, not to exceed $50,000, for each proof of business registration not properly provided under a contract with a contracting agency.

1.29 PROMPT PAYMENT

A. The Owner will issue timely payments to the Contractor in accordance with the requirements of the "Prompt Payment Act", N.J.S.A. 2A:30A-1, *et. seq*. The Bidders are hereby notified that the Board of Education, as a public entity, requires all payments to be approved at scheduled public Board of Education meetings. The vote on authorization for payments will be made at the first public meeting of the Board following the Board's receipt of the Architect's authorization for payment and be paid during the subsequent payment cycle.

1.30 PAY TO PLAY DISCLOSURE – POLITICAL CONTRIBUTIONS

A. The Contractor is advised of the responsibility to file an annual disclosure statement on political contributions with the New Jersey Election Law Enforcement Commission

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(ELEC) pursuant to N.J.S.A. 19:44A-20.13 (P.L. 2005, c.271, s.3) if the Contractor receives contracts in excess of $50,000 from public entities in a calendar year. It is the Contractor's responsibility to determine if filing is necessary. Additional information on this requirement is available from ELEC at 888-313-3532 or at www.elec.state.nj.us.

B. Award of Contract – Reportable Contributions – N.J.A.C. 6A:23A-6.3 (a) (1) "No Board of Education will vote upon or award any contract in the amount of $17,500 or greater to any business entity which has made a contribution reportable by the recipient under N.J.S.A. 19:44A-1 *et seq*. to a member of the board of education during the preceding one-year period.

C. Contributions During Term of Contract – Prohibited – N.J.A.C. 6A:23A-6.3 (a) (2-3) "Contributions reportable by the recipient under P.L. 1973, c.83 N.J.S.A. 19:44A-1 *et seq*. to any member of the school board from any business entity doing business with the school district are prohibited during the term of the contract."

1. "When a business entity referred in (a) (2) above is a natural person, contribution by that person's spouse or child that resides therewith, shall be deemed to be a contribution by the business entity. When a business entity is other than a natural person, a contribution by any person or other business entity having an interest therein shall be deemed to be a contribution by the business entity."

D. Chapter 271 Political Contribution Disclosure Form – Required – N.J.A.C. 6A:23A-6.3 (a) Pursuant to N.J.S.A. 19:44A-20.26 (a), all business entities shall submit with their bid/proposal package a completed and signed Chapter 271 Political Contribution Disclosure Form (See Appendix U). The Chapter 271 form will be reviewed by the Board to determine whether the business entity is in compliance with the aforementioned N.J.A.C. 6A:23A-6.3 (a) (2) Award of Contract. It is noted that the disclosure requirements set forth in N.J.S.A. 19:44A-20.26 also shall apply when the contract is required by law to be publicly advertised for bids.

E. The Board of Education has provided a Chapter 271 Political Contribution Disclosure Form within the specifications package for use by the business entity. The Board has also provided a list of agencies with the Disclosure Form to assist the Contractor. The enclosed list of agencies is provided to assist the Contractor in identifying those public agencies whose elected official and/or candidate campaign committees are affected by the disclosure requirement. It is the Contractor's responsibility to identify the specific committees to which contributions may have been made and need to be disclosed. The disclosed information may exceed the minimum requirement.

1. The enclosed Chapter 271 Political Contribution Disclosure form, a content-consistent facsimile, or an electronic data file containing the required details (along with a signed cover sheet) may be used as the Contractor's submission and is disclosable to the public under the Open Public Records Act.

1.31 WAIVER

A. No action or failure to act by the Board shall constitute a waiver of any right it may have under the terms of this contract.

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1.32 LAWS

A. The Contractor shall comply with all applicable laws, statutes, regulations, and ordinances, and any order issued by any governmental entity. This contract shall be governed by the laws of the State of New Jersey.

B. False Material Representation / Truth in Contracting:
A person commits a crime if the person knowingly makes a material representation that is false in connection with the negotiation, award, or performance of a government contract. If the contract amount is $25,000.00 or above, the offender is guilty of a crime of the second degree. If the contract amount exceeds $2,500.00 but is less than $25,000.00, the offender is guilty of a crime of the third degree. If the contract amount is $2,500.00 or less, the offender is guilty of a crime of the fourth degree. Bidder should be aware of the following statutes that represent "Truth in Contracting" laws:

1. N.J.S.A. 2C:21-34, *et seq*. governs false claims and representations by Bidders. It is a serious crime for the Bidder to knowingly submit a false claim and/or knowingly make a material misrepresentation.
2. N.J.S.A. 2C:27-10 provides that a person commits a crime if said person offers a benefit to a public servant for an official act performed or to be performed by a public servant, which is a violation of official duty.
3. N.J.S.A. 2C:27-11 provides that a Bidder commits a crime if the said person, directly or indirectly, confers or agrees to confer any benefit not allowed by law to a public servant.
4. Bidder should consult the statutes such as N.J.S.A. 18A:7G-39 or legal counsel for further information.

C. The State of New Jersey shall have authority to audit or review contract records / NJAC 17:44-2.2.

1. See para 1.24.E.3 of this Section above for time requirements to maintain Contractor's records.

D. Number of working days: deduction for wages paid / NJSA 18A:18A-19.
These specifications fix the date before which the Work shall be completed; as such, the Contractor assents that any wages paid by the Board of Education to any inspector or inspectors necessarily employed by it on the Work, for any number of days in excess of the number allowed in the specifications, shall be deducted from the contract price. Change Orders / NJAC 6A:23A-21.1 - See Section 00 73 00a – Supplementary General Conditions.

1.33 ANTI-BULLYING BILL OF RIGHTS

A. The contracted service provider shall comply with all applicable provisions of the New Jersey Anti-Bullying Bill of Rights Act – N.J.S.A. 18A:37-13.1 *et seq*., all applicable codes and regulations, and the Anti-Bullying Policy of the Board of Education. The District shall provide to the contracted service provider a copy of the Board's Anti-Bullying Policy.

B. In accordance with N.J.A.C. 6A:16-7.7 (c), a contracted service provider, who has witnessed, or has reliable information that a student has been subject to harassment,

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intimidation, or bullying shall immediately report the incident to any school administrator or safe schools resource officer, or the School Business Administrator/Board Secretary.

1.34 BID PROTESTS AND CONTRACTOR'S RESPONSIBILITY

A. Vendors or Contractors may contact the School Business Administrator/ Purchasing Agent in writing when they feel it necessary to challenge a procurement specification item or to protest an award of contract. All challenges and protests will be reviewed by the School Business Administrator / Purchasing Agent, the District Administrator of the contract and the Board Attorney. All determinations shall be made in writing to the vendor or Contractor. The Purchasing Agent pursuant to N.J.S.A. 18A:18A-2 (b) is the School Business Administrator.

B. A protest filed shall:
   1. Include the name, street address, electronic mail address, and telephone and facsimile numbers of the protester;
   2. Be signed by the protester or its representative;
   3. Identify the bid or solicitation number and date of bid or solicitation;
   4. Include a detailed statement of the legal and factual grounds of protest including copies of relevant documents;
   5. Set forth all information establishing that the protester is an interested party for the purpose of filing a protest;
   6. Set forth all information establishing the timeliness of the protest; and
   7. Provide any or all information pertaining to the bid protest.

C. Provide any or all information pertaining to the bid protest.

END OF DOCUMENT 00 21 13

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DOCUMENT 00 43 00
PROCUREMENT FORM SUPPLEMENTS

To: Mr. Timothy Havlusch, Business Administrator / Board Secretary
Educational Services Commission of New Jersey
1660 Stelton Road, 2nd Floor
Piscataway, New Jersey 08854

Project: Piscataway Outdoor Play Area
Educational Services Commission of New Jersey
ESCNJ RFP # ESCNJ 26-27-09-Piscataway Outdoor Play Area
PSA No. 10552

Date: .....……..

Submitted by: .....…….
(full name of Bidder)

(full address) .....…….

.....…….

(phone number) ……

In accordance with Document 00 21 13 "Instructions to Bidders" and Document 00 41 13 "Bid Form - Stipulated Sum (Single-Prime Contract)," we include the Appendices to Procurement Form Supplements listed below. The information provided shall be considered an integral part of the Bid Form. Refer to the "Summary – Bidder's Checklist of Requirements" on 00 43 00 – page 5 for submission requirements.

The following Appendices are attached to this document:

Summary – Bidder's checklist of bid form requirements and supplemental forms.

Appendix A – List of Subcontractors: In accordance with N.J.S.A. 18A:18A-18, include names and branch of work of each subcontractor to whom the bidder will subcontract the general construction, plumbing/gas, HVACR, electric, & structural steel work, each of whom must be prequalified by the DPMC.

Appendix B – Unit Prices [Not applicable].

Appendix C – Allowances: Include all allowances in the stipulated lump sum price submitted on Document 00 41 13 "Bid Form - Stipulated Sum (Single Prime Contract)."

Appendix D – List of Alternates.

Appendix E – Certificate of Bidder Showing Ability to Perform Contract (N.J.S.A. 18A:18A-23).

Appendix F – Bid Security (N.J.S.A. 18A:18A-24) Sample Bid Bond enclosed. Provide original

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document as part of bid submission.

Appendix G – Certificate of Surety (N.J.S.A. 18A:18A-25) Sample certificate enclosed. Provide original document as part of bid submission.

Appendix H – Prequalification/Notice of Classification Certificates (Department of Treasury Form, DPMC - N.J.S.A. 18A:18A-26) Sample Certificates enclosed. To provide copies of original documents as part of bid submission is requested for **both Bidder and ALL listed Subcontractors for which classification is required. If not included with Bid, documents must be submitted prior to award of contract.**

Appendix I – Amount of Uncompleted Contracts Certification (Department of Treasury Form, DPMC) Sample certification enclosed. Provide original documents as part of bid submission for **both Bidder and ALL listed Subcontractors for which classification is required.**

Appendix J – No Material Adverse Change in Qualification Certification (N.J.S.A. 18A:18A-32). Provide original documents as part of bid submission for **Bidder.**

Appendix K – New Jersey Schools Development Authority, Certificate of Prequalification. [Not required]

Appendix L – Non-Collusion Affidavit.

Appendix M – Statement of Ownership Form.

Appendix N1 – Contractor Registration Certificate (Department of Labor and Workforce Development, Division of Wage and Hour Compliance) Sample certificate enclosed. Contractor may provide copy of originals with bid submission **for both Bidder and ALL listed Subcontractors**, but must be submitted prior to the award of contract.

Appendix N2 – Business Registration Certificate. Sample certificate enclosed. Contractor may provide copies of original documents as part of bid submission **for both Bidder and ALL listed Subcontractors,** but must be submitted prior to the award of contract.

Appendix O – Prevailing Wage Affidavit.

Appendix P – Equal Opportunity Mandatory Bid Statement.

Appendix Q – Affirmative Action Mandatory Bid Statement.

Appendix R – Disclosure Form.

Appendix S – Certified Sworn Statement on Non-Debarment/Disqualification/Suspension.

Appendix T – Asbestos Acknowledgment Form.

Appendix U – Political Contribution Disclosure Affidavit.

Appendix V – N/A.

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Appendix W – Certification: prohibited activities in Russia and Belarus is not required for Construction Contracts. N/A.

Appendix W1 Disclosure of Investment activities in Iran is not required for Construction Contracts. N/A.

Appendix X – Sworn Contractor Certification Requirements **both Bidder and all listed Subcontractors for which classification is required.**

Appendix Y – Exhibit E-2: Form of Contractor Certification and Consent [Not required].

Appendix Z – Supplemental Conditions: Educational Facilities Construction [Not required].

Certification of Non-Debarment for Federal Government Contracts

Note:
Bidders are advised to review the BIDDER'S CHECKLIST OF REQUIREMENTS below carefully to ensure that the Bid Submission package includes all mandatory attachments, and that those forms, documents, and affidavits requiring signature have been signed, and further, that those documents requiring a Notarized Signature have been duly executed with the Notary's signature and seal.

Many attachments are mandated by law to be included with the bid submission, and failure to include certain ones of them cannot be repaired after bids have been opened. This is why the BIDDER'S CHECKLIST OF REQUIREMENTS should be checked with care.

However, please note that some appendices may be requested to accompany the bid, but are not mandated by law to be attached to the bid at time of submission. In such instances as listed below, the requested documents still must be provided to the Owner prior to award of contract. Since the Bidder may not be fully aware of the Owner's intended date for resolving to award the contract, the Board of Education is requesting the provision of such documents be submitted with the Bid, so that Bidders can assure themselves that they have complied with the legal deadline. For example, (and Bidders are directed to consult the Checklist for a complete list of documents not required with the Bid submission but required prior to award), Appendix N1 and Appendix N2, are not required to be submitted together with the Bid by the deadline, but are required to be submitted prior to award of the contract; and Bids may not be rejected solely for lack of those exhibits (N1 and N2) listed below, but must be rejected if such documents are not received prior to award:

Appendix H – Prequalification/Notice of Classification Certificates (Department of Treasury Form, DPMC - N.J.S.A. 18A:18A-26) Sample Certificates enclosed. Provide copies of original documents prior to award for **both Bidder and ALL listed Subcontractors for which classification is required.**

Appendix N1 – Contractor Registration Certificate (Department of Labor and Workforce Development, Division of Wage and Hour Compliance) Sample certificate enclosed. Contractor may provide copy of originals with bid submission **for both Bidder and ALL listed Subcontractors,** but must submit the Certificate(s) prior to the date of contract award, confirming that the Registration was in effect on the date of the bid submission.

Appendix N2 – Business Registration Certificate. Sample certificate enclosed. Contractor may provide copies of original documents as part of bid submission **for both Bidder and ALL listed Subcontractors,** but must submit the Certificate(s) prior to the date of contract award.

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Appendix W - Certification: Prohibited Activities in Russia and Belarus is not required.
Appendix W1 - Disclosure of Investment Activities in Iran is not required for Construction Contracts.

Post bid submittals:
In addition to Appendices N1, N2, and W listed above, which may be submitted post bid, but still prior to award of contract, the successful Bidder must submit, prior to award of contract, a Certification of Non-Debarment for Federal Government Contracts per N.J.S.A. 52:32-44.1. The required Certification form may be obtained from the District's Business Administrator but is also included at the end of Section 00 30 00 Information Available to Bidders, for use by the successful Bidder. It must be completed, signed, and submitted prior to award of contract.

This Certification of Non-Debarment for Federal Government Contracts is not the same as Appendix S in this Section, which is to be submitted with the bid by all Bidders. This post-bid Certification of Non-Debarment by the successful Bidder discloses information on those persons or entities having a controlling interest (more than 50% ownership) in the Bidder. It also contains controlling ownership information on any affiliated companies owned or controlled by the Bidder or its owning or controlling entities. Submittal by the successful Bidder, and review of the completed Certification by the District are both required prior to award of contract to the successful Bidder.

The BIDDER'S CHECKLIST OF REQUIREMENTS follows this page.

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SUMMARY – BIDDER'S CHECKLIST OF REQUIREMENTS

In compliance with N.J.S.A.18A:18A-1 et seq., the following is the list of supplemental required information referenced in the bid submitted by:

(Bidder) .....

To (Owner) Mr. Timothy Havlusch, Business Admin. / Bd. Sec'y.
Educational Services Commission of New Jersey

Documents have different submittal requirements. Some must be attached to Bid. See footnotes for timing requirements per document.

Dated ..... and which is an integral part of the Bid Form. **Please Initial**

DESCRIPTION	Foot notes	REQUIRED Contr.	REQUIRED Sub(s)	**PROVIDED** Contr.	**PROVIDED** Sub(s)
Appendix A – List of Subcontractors	a	X			
Appendix B – List of Unit Prices [N/A]	a	--	--	--	--
Appendix C – List of Contract Allowances	b	X	--		--
Appendix D – List of Alternates	b	X	--		--
Appendix E – Certificate of Bidder Showing Ability to Perform Contract	b	X	--		--
Appendix F – Bid Security / Bid Bond	a	X	--		--
Appendix G – Certificate of Surety, Performance Bond and Surety Disclosure Statement and Certification	a	X	--		--
Appendix H – Prequalification/Notice of Classification Certificates (DPMC) for **Bidder and ALL listed Subs**.w/Classification req'd.	c	X	+		
Appendix I – Amount of Uncompleted Contracts Certification (Dpt. of Treasury Form, DPMC) for **Bidder and ALL listed Subcontractors w/Classification required.**	a	X	+		
Appendix J – No Material Adverse Change in Qualification Certification	a	X	--		--
Appendix K – N/A		--	--	--	--
Appendix L – Non-Collusion Affidavit	b	X	--		--
Appendix M – Statement of Ownership Form	a	X	--		--
Appendix N 1– Contractor Registration Certificate **may be submitted w/ bid for Bidder and ALL listed & prequalified Subcontractors.** (DOL, Div. of Wage and Hour Compliance)	c	X	+		
Appendix N 2– Business Registration Certificate **may be submitted w/ bid for Bidder and ALL listed & prequalified Subcontractors.**	c	X	+		
Appendix O – Prevailing Wage Affidavit	b	X	--		--
Appendix P – Equal Opportunity Mandatory Bid Statement Including Americans with Disabilities Act 1990	b	X	--		--
Appendix Q – Affirmative Action Mandatory Bid Statement	b	X	--		--
Appendix R – Disclosure of Interest Form	b	X	--		--
Appendix S – Statement on Non-Debarment/Disqualification/Suspension	b	X	--		--
Appendix T – Asbestos Acknowledgement Form	b	X	--		--
Appendix U – Political Contribution Disclosure Affidavit	c	X	--		--
Appendix V – N/A		--	--	--	--
Appendix W – Certification of Prohibited Activities in Russia and Belarus and Appendix W1 Prohibited Investment Activities in Iran are both **not required.**		--	--	--	--
Appendix X – Sworn Contractor Certification Requirements for **Bidder and ALL listed Subcontractors w/ Classification required.**	b	X	+		
Appendix Y - N/A		--	--	--	--
Appendix Z - N/A		--	--	--	--
Certification of Non-Debarment for Federal Contracts	c	X			

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FOOTNOTES – for BIDDER'S CHECKLIST OF REQUIREMENTS

Bidders are responsible for assembly and submission of a responsive Bid Package, inclusive of the Bid Form and attached documents. Some attachments are in the form of a provided Appendix document to be filled in and signed, while others are in the form of a "Sample" document where the Bidder provides a copy of their own official document that they have obtained from various authorities.

The BIDDER'S CHECKLIST above should be used in conjunction with the Section 00 21 13 Instructions to Bidders to compile a complete Bid Submission that complies with instructions and with applicable state laws. Some attachments are mandatory and failure to provide them will result in a rejected bid. Others are requested to accompany the bid, but may be submitted prior to contract award. Selected documents are mandatory for both the Prime Bidder and the listed Subcontractors in N.J.S.A. 18A:18A-18. The BIDDER'S CHECKLIST helps to clarify which requested documents are in each category. The following Footnotes and Symbol Keys are used in the Checklist.

FOOTNOTES AND SYMBOL KEY

Footnotes for Document Submission:

a. MANDATORY Submittal with the Bid.

b. Requested with submission of the Bid.

c. Requested with Bid, but REQUIRED submittal prior to Contract Award.

Symbol Key:

N/A Not Applicable for this Project.

X Attachment REQUIRED for the indicated Column. See Footnotes for Mandatory Items.

-- Attachment NOT Required for the indicated Column.

+ REQUIRED for all LISTED SUBCONTRACTORS per N.J.S.A. 18A:18A-18.

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APPENDIX A - LIST OF SUBCONTRACTORS

Herewith is the list of subcontractors referenced in the bid submitted by:

(Bidder) .....

To (Owner) Mr. Timothy Havlusch, Business Administrator / Board Secretary
Educational Services Commission of New Jersey

Dated ..... and which is an integral part of the Bid Form.

Identify each major subcontractor **for each of the major trades and the specialty trade(s) indicated below,** if shown. By indicating the subcontractors below, the Contractor certifies that if awarded the bid, the Subcontractors listed below will be awarded subcontracts provided they are approved by the Architect**. All prequalification documentation required for the Bidder shall also be submitted for each listed Subcontractor as indicated on the Bidder's Checklist above, for each of the major trades, with other selected documents as listed in the Instructions to Bidders.**

The Bidder shall be classified by the New Jersey Department of the Treasury, Division of Property Management and Construction (DPMC) in at least **one (1)** of the following trades:

(C008) GENERAL CONSTRUCTION or
(C009) GENERAL CONSTRUCTION/ ALTERATIONS/ ADDITIONS &
(C054) SITEWORK

In addition, for each trade listed below in which the Bidder is not so classified, the Bidder shall engage a properly classified subcontractor. All subcontractors shall be named in the spaces provided below, under the section entitled, "Major Subcontractors" or "Specialty Trade" as applicable. The Bidder shall provide with the bid the requisite documentation listed in the Bidder Checklist for the Bidder and for each named subcontractor as required in these specifications.

All listed Subcontractors **(**required to be identified by N.J.S.A. 18A:18A-18**)** must be registered at the time of the bid by the State of New Jersey pursuant to the Public Works Contractor Registration Act, N.J.S.A. 34:11-56.48 et seq. to work on school construction projects. Bidders are requested to include the Public Works Contractor Registration Act Certificate and a Business Registration Certificate pursuant to N.J.S.A. 52:32-44, for each listed subcontractor.

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WORK SUBJECT, listed per N.J.S.A. 18A:18A-18: NAME

(C030) Plumbing ……

(C047) Electrical ……

(C060) Athletic Fields / Tracks / Courts ……

(C071) ROOFING - METAL ……

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APPENDIX C – ALLOWANCES

Allowances shall be included in the bidders base bid (Document 00 41 13 "Bid Form-Stipulated Sum (Single-Prime Contract)") and shall be enumerated on the Schedule of Values in the amounts identified below. Since the allowances are in the base bid, Contractor's base bid shall include the bonding, overhead & profit costs for all allowances. Unused allowances will be credited to the Owner.

PRIME CONTRACTOR ALLOWANCES:

A. **GENERAL ALLOWANCE FOR THE CONTRACT:**
Refer to Section 00 41 13 Bid Form, for Allowance Dollar Amount to be included in the Base Bid dollar amount entered on the Bid Form.

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APPENDIX D - LIST OF ALTERNATES

The following is the list of alternates referenced in the bid submitted by:

(Bidder) .....

To (Owner) Mr. Timothy Havlusch, Business Administrator / Board Secretary
Educational Services Commission of New Jersey

Dated ....., and which is an integral part of the Bid Form.

On the Section 00 41 13 Bid Form, Bidder must indicate what amounts shall be added to, deducted from or no change to the Contract Sum, and shall become part of the Contract Documents if accepted by the Owner. Refer to Section 01 23 00 Alternates for further information concerning the alternates.

On the Bid Form, the failure to bid the alternate by leaving the amount blank or stating "no bid" shall be considered a material defect, resulting in the rejection of the bid. If an alternate item will result in no change in the base bid, Bidder shall clearly so indicate by entering "zero" for the dollar amount, and circling the "No Change" option.

For each Alternate price entry on the Bid Form, Bidder shall indicate whether the amount for each alternate results in an increase, decrease, or no change from the contract sum by circling "Add" or "Deduct" or "No Change" for each alternate. In the absence of any such marking by the Bidder, the Owner shall interpret which action seems appropriate based on the wording of the question.

The Base Bid is for all work (labor and material) for all work outlined in the drawings, project manual and specifications. Alternates are described below, but the alternate bid values must be entered on the Section 00 41 13 Bid Form, page 2 on the appropriate lines. **Do <u>not</u>** put Alternate bid dollar amounts on this appendix page.

<u>ALT- 1:</u>

Alternate Description: The scope of this alternate includes, but is not limited to, providing fence slat at entire perimeter of new chain link fence where indicated on the construction drawings.

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APPENDIX E – CERTIFICATE OF BIDDER SHOWING ABILITY TO PERFORM CONTRACT

State of New Jersey, County of

I, _____of _____ in the county of _____

State of _____ of full age, being duly sworn according to law on my oath deposed and say that: I am _____ of the company of _____, the Bidder making the Proposal for the above named projects, and that I executed the said Proposal with full authority to do so; and that said Bidder, pursuant to N.J.S.A. 18A:18A-23, certifies that it owns, leases or controls all the necessary equipment required by the plans, specifications and advertisements under which bids are requested. If the Bidder is not the actual owner or lessee of any such equipment, this certificate shall state the source from which the equipment will be obtained, and shall be accompanied by a certificate from the owner or person in control of the equipment required during such time as may be necessary for the completion of that portion of the contract for which it is necessary.

_____
(also type or print name of affiant under signature)

Subscribed and sworn to before me

this ____day _____, 20____

_____
(Seal) Notary Public of New Jersey

My Commission Expires _____

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APPENDIX F – BID SECURITY (SAMPLE BID BOND)

Sample language illustrated below. Include original bid security document with bid submission

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned _____ as Principal, and _____ as Surety, are hereby and firmly bound unto the Educational Services Commission of New Jersey in the penal sum of TEN PERCENT of amount bid, not to exceed TWENTY THOUSAND and 00/100---(10%, not to exceed $20,000.00) for payment which, well and truly be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns.

Signed this _____ day of _____.

The condition of the above obligation is such that whereas the Principal has submitted to the Owner as defined, a certain Bid, attached hereto, and hereby made a part hereof, to enter into a contract in writing for:

Piscataway Outdoor Play Area

NOW, THEREOF,

A. If said Bid shall be rejected, or, in the alternative,
B. If said bid shall be accepted and the Principal shall execute and deliver a contract in the form of Contract provided (properly completed in accordance with said Bid) and shall furnish a bond for its faithful performance of said Contract, and shall in all other respects perform the Agreement created by the acceptance of the Bid.

Then , this obligation shall be void, otherwise the same shall remain in force, and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of the obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of the Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Principal may accept such Bid; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have set their hands and seals, and such of them as are corporations having caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

Principal:
_____ (L.S.)
Surety: _____ By:
_____

STATE OF)
: SS:
COUNTY OF)

On this _____ day of _____ 20___, before me personally came _____- to me known, who, being by me duly sworn, did depose and say; he/she resides in _____ that he/she is the _____ of the instrument; that he/she knows the seal of said corporation; that the seal affixed to said instrument is

SAMPLE

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such corporate seal; that it was so affixed by the order of the Board of Directors of said corporation, and that he/she signed his/her name thereto by like order.

(SEAL)

_____
Notary Public of _____
My Commission Expires _____

SAMPLE

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APPENDIX G – CERTIFICATE OF SURETY (SAMPLE)

Sample language illustrated below. Include original document with bid submission.

KNOW ALL MEN BY THESE PRESENT, that for and in consideration of the sum of One Dollar, lawful money of the United States, the receipt whereof is hereby acknowledged, paid the undersigned Surety, and for other valuable consideration, the (INSERT SURETY'S NAME) a corporation organized and existing under the laws of the State of (INSERT NAME) and licensed to do business in the State of New Jersey, consents and agrees, that if the contract for the (INSERT TYPE OF WORK) for the (INSERT PROJECT NAME) be awarded to (INSERT CONTRACTOR'S NAME) the undersigned corporation agrees with the said Contractor to execute the final bonds as required by the specifications, and to become Surety in the full amount in accordance with specifications for the faithful performance of the contract. The undersigned Surety does further agree that having examined the INSTRUCTIONS TO BIDDERS, GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS, SPECIFICATIONS, and all other CONTRACT DOCUMENTS, and the bid of (INSERT CONTRACTOR'S NAME) hereto attached, we hereby declare that, if said bid or any part thereof be accepted, we are willing to be bound with the said bidder upon the terms and conditions mentioned in the proposal and specifications in two-hundred (200%) percent of the contract sum through the issuance of both a Performance Bond in one-hundred (100%) percent of the contract sum, and a Labor and Materials Payment Bond in one-hundred (100%) percent of the contract sum, conditioned upon the faithful and satisfactory performance or all obligations and requirements of the contract.

The undersigned Surety does further agree that they will supply a Maintenance Bond in the amount of (100%) percent of the contract sum, (including all change orders) conditioned upon the faithful and satisfactory performance of all obligations and requirements for correction of work for (2) year(s) from date of Substantial Completion.

IN WITNESS WHEREOF, the undersigned (INSERT SURETY'S NAME) has caused this agreement to be signed by its duly authorized representative and its corporate seal to be hereto affixed this _____day of _____, 20_____.

Countersigned by:

By:_____(Attorney-in-fact)

_____
Resident Agent

NOTE: If the organization of the Surety is other than a corporation, substitute the proper type for the word "corporation", such as "Partnership, Proprietorship", etc.

Each executed bond should be accompanied by (a) appropriate acknowledgments of the respective parties; (b) appropriate duly certified copy of Power of Attorney or other certificate of authority where bond is executed by agent, officer or other representative of Principal or Surety; (c) a duly certified extract from By-Laws or resolutions of Surety under which Power of Attorney or other certificate of authority of its agent officer or representative was issued; and (d) duly certified copy of latest published financial statement of assets and liabilities of Surety.

Affix acknowledgments and justifications of Sureties.

Surety companies executing bonds must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State of New Jersey.

SAMPLE

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PERFORMANCE BOND (SAMPLE)

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned _____, as Principal, and _____ SURETY COMPANY, a corporation of the State of _____ _____ duly authorized to do business in the State of New Jersey, having an office at _____ _____, are hereby held and firmly bound unto the _____ in the penal sum of _____ Dollars, for payment of which well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns.

Signed this _____ day of _____, 20_____.

THE CONDITION OF THE ABOVE OBLIGATION IS SUCH THAT, WHEREAS, the above named Principal did on the _____ day _____, 20_____ enter into a written contract with the _____ for _____ _____ which said contract is made a part of this bond as set forth herein.

NOW, if the said _____ shall well and faithfully do and perform the things agreed by _____ to be done and performed according to the terms of the said contract, and shall pay all lawful claims of beneficiaries as defined by N.J.S.A. 2A:44-143 for labor performed or materials, provisions, provender or other supplies or teams, fuels, oils, implements or machinery furnished, used or consumed in the carrying forward, performing or completing of said contract, we agreeing and assenting that this undertaking shall be for the benefit of any beneficiary as defined in N.J.S.A. 2A:44-143 having a just claim, as well as for the obligee herein; then this obligation shall be void, otherwise the same shall remain in full force and effect; it being expressly understood and agreed that the liability of the surety for any and all claims hereunder shall in no event exceed the penal amount of this obligation as herein stated.

The said surety hereby stipulated and agrees that no modifications, omissions, or additions in or to the terms of the said contract, or in or to the plans or specifications therefore shall in any wise effect the obligation of said surety on its bond.

This bond is given in compliance with the requirements of the statutes of the State of New Jersey in respect to bonds on contractors on public works. Revised Statutes of New Jersey, 1937, Sections 2A:44-143-147, and amendments thereof, and liability hereunder is limited as in said statutes provided.

_____	_____
Witness	Principal
_____	_____
Witness as to Surety	

SAMPLE

SURETY DISCLOSURE STATEMENT AND CERTIFICATION

, surety(ies) on the attached bond, hereby certifies(y) the following:

(1) The surety meets the applicable capital and surplus requirements of R.S. 17:17-6 or R.S. 17:17-7 as of the surety's most current annual filing with the New Jersey Department of Insurance.

(2) The capital (where applicable) and surplus, as determined in accordance with the applicable laws of this State, of the surety(ies) participating in the issuance of the attached bond is (are) in the following amount(s) as of the calendar year ended December 31, ____ (most recent calendar year for which capital and surplus amounts are available), which amounts have been certified as indicated by certified public accountants (indicating separately for each surety that surety's capital and surplus amounts, together with the name and address of the firm of certified public accounts that shall have certified those amounts):

_____

_____

_____

_____

(3) (a) With respect to each surety participating in the issuance of the attached bond that has received from the United States Secretary of the Treasury a certificate of authority pursuant to 31 U.S.C. ' 9305, the underwriting limitation established therein and the date as of which that limitation was effective is as follows (indicating for each such surety that surety's underwriting limitation and the effective date thereof):

_____

_____

_____

_____

(b) With respect to each surety participating in the issuance of the attached bond that has not received such a certificate of authority from the United States Secretary of the Treasury, the underwriting limitation of that surety as established pursuant to R.S. 17:18-9 as of (date on which such limitation was so established) is as follows (indicating for each such surety that surety's underwriting limitation and the date on which that limitation was established):

_____

_____

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(4) The amount of the bond to which this statement and certification is attached is $_____.

(5) If, by virtue of one or more contracts of reinsurance, the amount of the bond indicated under item (4) above exceeds the total underwriting limitation of all sureties on the bond as set forth in items (3)(a) or (3)(b) above, or both, then for each such contract of reinsurance:

(a) The name and address of each such reinsurer under that contract and the amount of that reinsurer's participation in the contract is as follows:

_____

_____

_____

_____; and

(b) Each surety that is party to any such contract of reinsurance certifies that each reinsurer listed under item (5)(a) satisfies the credit for reinsurance requirement.

CERTIFICATE
(to be completed by an authorized certifying agency
for each surety on the bond)

I, _____ (name of agent), as _____ (title of agent) for _____ (name of surety), a corporation/mutual insurance company/other (indicating type of business organization) (circle one) domiciled in _____ (state of domicile), DO HEREBY CERTIFY that to the best of my knowledge, the foregoing statements made by me are true and ACKNOWLEDGE that, if any of those statements are false, this bond is VOIDABLE.

_____
(Signature of certifying agent)

_____
(Printed name of certifying agent)

_____
(Title of certifying agent)

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APPENDIX H – PREQUALIFICATION/NOTICE OF CLASSIFICATION CERTIFICATE

Samples shown. Include copies of original documents with bid submission.

1. Department of Treasury, Division of Property Management and Construction Notice of Classification:

State of New Jersey

DEPARTMENT OF THE TREASURY
DIVISION OF PROPERTY MANAGEMENT AND CONSTRUCTION
50 BARRACK STREET
PO BOX 235
TRENTON, NEW JERSEY 08625-0235

NOTICE OF CLASSIFICATION

TO:

TEL: (609) 633-3990
TEL: (609) 984-4708
FAX: 609-292-7651

NOTICE TYPE

AGGREGATE AMOUNT	TRADE(S)	EFFECTIVE DATE	EXPIRATION DATE

ELECTRICAL LICENSE NO. | PLUMBING LICENSE NO. | OTHER LICENSE NO.

VALID ELECTRICAL LICENSE ON FILE DBC
VALID PLUMBING LICENSE ON FILE DBC
FIRM QUALIFIED FOR WIRING WITH A POTENTIAL OF 30 VOLTS OR LESS, NO LICENSE ON FILE
ELECTRICAL LICENSE NUMBER MUST BE VERIFIED AS VALID BEFORE AWARD OF CONTRACT
PLUMBING LICENSE NUMBER MUST BE VERIFIED AS VALID BEFORE AWARD OF CONTRACT.

IN accordance with N.J.S.A. 18A:18A-*27 et seq* (Department of Education) and N.J.S.A. 52:35-1 (Department of the Treasury) and any rules and regulations issued pursuant hereto, you are hereby notified of your classification to do State work in the Department(s) as noted above.

SAMPLE

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APPENDIX I – AMOUNT OF UNCOMPLETED CONTRACTS CERTIFICATION

Sample shown. Include original documents with bid submission.

State of New Jersey
DEPARTMENT OF THE TREASURY
DIVISION OF BUILDING AND CONSTRUCTION
50 BARRACK STREET
P.O. BOX 235
TRENTON, NEW JERSEY 08625-0235

OFFICE OF THE DIRECTOR

REPLY TO:
TEL: (609) 633-3990
TEL: (609) 984-4708
FAX: 609-292-7651

TOTAL AMOUNT OF UNCOMPLETED CONTRACTS

(This form is to be used with the NOTICE OF CLASSIFICATION when submitting bids to the Department of Education.)

I certify that the amount of uncompleted work on contracts is $_____.

The amount claimed includes uncompleted portions of all currently held contracts from all sources (public and private) in accordance with N.J.A.C. 17:19-2.12.

I further certify that the amount of this bid proposal, including all outstanding incomplete contracts does not exceed my prequalification dollar limit.

Respectfully submitted,

Affix corporate seal here

By _____
Name of Firm

_____
Signature

_____
Title

_____
Business Address

_____

_____

_____
Phone

Sworn to and subscribed before me this day of

Notary Public

SAMPLE

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APPENDIX J – NO MATERIAL ADVERSE CHANGE IN
QUALIFICATION CERTIFICATION

To the Bidder: This Affidavit must be submitted with your bid for public school work.

STATE OF _____)
ss:
COUNTY OF _____)

_____ being duly sworn, according to law, deposes and says that he is the _____ of _____ and that the answers to the following statements are true and correct and that there has been no material adverse change in the qualification information subsequent to the latest statement submitted as required under Chapter 105, Laws of 1962 (N.J.S.A. 18A:18A:27 *et seq.*) as amended, except as set forth herewith: _____ is classified by the State of New Jersey under Chapter 105, Laws of 1962, as amended. This classification became effective _____ _____, and will expire on _____.

Type of Contract/Trade Classified: _____

_____

_____

_____

Approved Amount $_____

_____

A copy of my valid and active prequalification/classification certificate from the Department of Treasury, Division of Property Management and Construction is attached.
The total amount of uncompleted work on contracts is $_____

I hereby certify, under penalty as provided by law, that there is not now pending any litigation or other action that may jeopardize my rating, status, or contract limits from their current levels and that at the time of the bid submission, the value of all outstanding incomplete contracts does not exceed this firm's existing aggregate rating limit.

_____
Signature

Sworn before me this _____day of
_____, 20_____

_____
Notary Public of _____
My Commission expires _____/_____/_____

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APPENDIX L – NON-COLLUSION AFFIDAVIT

STATE OF NEW JERSEY

COUNTY OF _____

PROJECT: _____

I _____, of the City of _____ in the County of and the State of _____ of full age, being duly sworn according to law on my oath depose and say that:

I am _____ of the firm of _____, the bidder making the Proposal for the above named project, and that I executed the said Proposal with full authority so to do; that said bidder has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint for free, competitive bidding in connection with the above-named project; and that all statements contained in said Proposal and in this affidavit are true and correct, and made with Full knowledge that the Board of Education relies upon the truth of statements contained in said Proposal and in the statements contained in the affidavit awarding the contract for the said project.

I further warrant that no person or selling agency has been employed or retained to solicit or secure such contract upon an agreement or understanding for a commission, percentage, brokerage or contingent fee, except bonafide employees or bonafide established commercial or selling agencies maintained by (name of Contractor)_____(N.J.S.A.52:34-15).

_____

Also type or print name of affiant under signature)

Subscribed and sworn to before me

this ____day _____, 20____

_____

(Seal) Notary Public of New Jersey

My Commission Expires _____

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APPENDIX M – STATEMENT OF OWNERSHIP FORM
N.J.S.A. 52:25-24.2 (P.L. 1977, c.33, as amended by P.L. 2016, c.43)

This statement shall be completed, certified to, and included with all bid and proposal submissions. Failure to submit the required information is cause for automatic rejection of the bid or proposal.

Name of Organization: _____

Organization Address: _____

Part I Check the box that represents the type of business organization:

☐ Sole Proprietorship

☐ Non-Profit Corporation (skip Parts II and III, execute certification in Part IV)

☐ For-Profit Corporation (any type) ☐ Limited Liability Company (LLC)

☐ Partnership ☐ Limited Partnership ☐ Limited Liability Partnership (LLP)

☐ Other (be specific): _____

Part II

☐ The list below contains the names and addresses of all stockholders in the corporation who own 10 percent or more of its stock, of any class, or of all individual partners in the partnership who own a 10 percent or greater interest therein, or of all members in the limited liability company who own a 10 percent or greater interest therein, as the case may be. (**COMPLETE THE LIST BELOW IN THIS SECTION**)

OR

☐ No one stockholder in the corporation owns 10 percent or more of its stock, of any class, or no individual partner in the partnership owns a 10 percent or greater interest therein, or no member in the limited liability company owns a 10 percent or greater interest therein, as the case may be. (**SKIP TO PART IV**)

(Please attach additional sheets if more space is needed*):*

Name of Individual or Business Entity	Address

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Part III DISCLOSURE OF 10% OR GREATER OWNERSHIP IN THE STOCKHOLDERS, PARTNERS OR LLC MEMBERS LISTED IN PART II

If a bidder has a direct or indirect parent entity which is publicly traded, and any person holds a 10 percent or greater beneficial interest in the publicly traded parent entity as of the last annual federal Security and Exchange Commission (SEC) or foreign equivalent filing, ownership disclosure can be met by providing links to the website(s) containing the last annual filing(s) with the federal Securities and Exchange Commission (or foreign equivalent) that contain the name and address of each person holding a 10% or greater beneficial interest in the publicly traded parent entity, along with the relevant page numbers of the filing(s) that contain the information on each such person. **Attach additional sheets if more space is needed**.

Website (URL) containing the last annual SEC (or foreign equivalent) filing	Page #'s

Please list the names and addresses of each stockholder, partner or member owning a 10 percent or greater interest in any corresponding corporation, partnership and/or limited liability company (LLC) listed in Part II **other than for any publicly traded parent entities referenced above**. The disclosure shall be continued until names and addresses of every noncorporate stockholder, and individual partner, and member exceeding the 10 percent ownership criteria established pursuant to N.J.S.A. 52:25-24.2 has been listed. **Attach additional sheets if more space is needed.**

Stockholder/Partner/Member and Corresponding Entity Listed in Part II	Address

Part IV Certification

I, being duly sworn upon my oath, hereby represent that the foregoing information and any attachments thereto to the best of my knowledge are true and complete. I acknowledge: that I am authorized to execute this certification on behalf of the Bidder/Proposer; that the Board of Education is relying on the information contained herein and that I am under a continuing obligation from the date of this certification through the completion of any contracts with Board of Education to notify the Board of Education in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I am subject to criminal prosecution under the law and that it will constitute a material breach of my agreement(s) with the Board of Education, permitting the Board of Education to declare any contract(s) resulting from this certification void and unenforceable.

Full Name (Print):		Title:	
Signature:		Date:	

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APPENDIX N 1 and N 2– REGISTRATION CERTIFICATES

Samples shown below of the Contractor Registration Certificate from the Department of Labor and Workforce Development (Appendix N 1), and the Business Registration Certificate from the Department of Treasury (Appendix N 2). Bidders may include copy of both original certificate documents with bid submission, **for the Bidder and All listed subcontractors,** but must submit prior to the time of contract award, both certificates showing that the registrations were in effect for each entity on the date of the bid.



Certificate Number

Expiration Date

State of New Jersey

Department of Labor

Division of Wage and Hour Compliance

Public Works Contractor Registration Act

Pursuant to Public Law 1999 Chapter 238, the Public Works Contractor Registration Act, this certificate of registration, for purposes of bidding on and engaging in public work is issued to

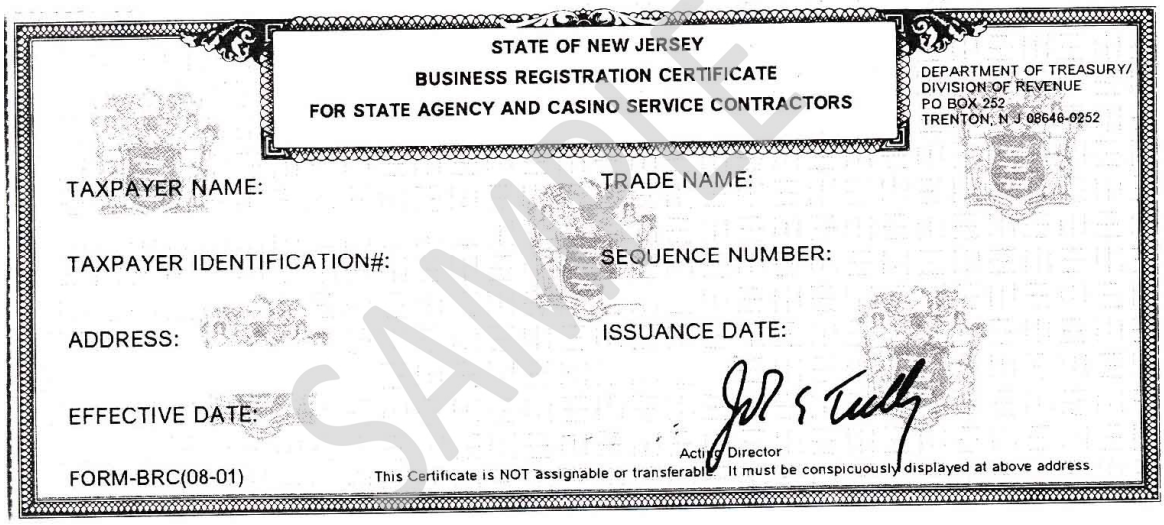
This certificate may not be transferred or assigned and may be revoked for cause by the Commissioner of Labor.

ALBERT G. KROLL, Commissioner
Department of Labor

NON TRANSFERABLE

MARTIN GARTZMAN, Director
Division of Wage and Hour Compliance

SAMPLE



STATE OF NEW JERSEY
BUSINESS REGISTRATION CERTIFICATE
FOR STATE AGENCY AND CASINO SERVICE CONTRACTORS

DEPARTMENT OF TREASURY/
DIVISION OF REVENUE
PO BOX 252
TRENTON, N J 08646-0252

TAXPAYER NAME:

TRADE NAME:

TAXPAYER IDENTIFICATION#:

SEQUENCE NUMBER:

ADDRESS:

ISSUANCE DATE:

EFFECTIVE DATE:

Acting Director

FORM-BRC(08-01)

This Certificate is NOT assignable or transferable. It must be conspicuously displayed at above address.

SAMPLE

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APPENDIX O – PREVAILING WAGE AFFIDAVIT

Piscataway Outdoor Play Area

The Board of Education determines that this is a public works project that in total will exceed $2,000.00 (two thousand dollars), therefore prevailing wages rules and regulations apply as promulgated by the New Jersey Prevailing Wage Act and in conformance with N.J.S.A. 34:11-56:25 et seq. and P.L. 2023, c. 138.

Certification
I certify that our company/firm understands that we shall pay all workers a wage rate not less than the published prevailing wage rates, for the locality in which the Work is being performed, as designated by the New Jersey Department of Labor and Workforce Development.

I further certify that all subcontractors named in this bid understand that this project requires the subcontractor to pay its workers prevailing wages in full accordance with the law.

Certified Payrolls—Form MW 562
I agree to submit to the Board of Education and the Department of Labor and Workforce Development certified payrolls for each payroll period within ten (10) days of the payment of wages and acknowledge Contractors shall be required to provide certified payroll records to both the department through online submission and to the public body awarding the contract. The Contractor shall use the New Jersey Department of Labor and Workforce Development **Form MW-562** for certifying payroll records. I further understand that no payments will be made by the Board of Education if certified payrolls are not received by the Board. Public works contractor registration and payroll certification for public works projects to be completed online at https://njwages.nj.gov/. Agencies shall receive certified payroll via the Hub and hard copy from contractors and subcontractors.

Non-compliance Statement
I understand that if it is found that any worker, employed by the Contractor or any subcontractor covered by said contract, has been paid a rate of wages less than the prevailing wage required to be paid by such contract, the Board of Education, may begin proceedings to terminate the Contractor's or subcontractor's right to proceed with the Work, or such part of the Work as to which there has been a failure to pay required wages and to prosecute the Work to completion or otherwise. The Contractor and its sureties shall be liable for any excess costs occasioned thereby to the public body.

NOTIFICATION OF VIOLATIONS – New Jersey Department of Labor and Workforce Development
Has the Bidder or any person having an "interest" with the Bidder, been notified by the New Jersey Department of Labor and Workforce Development by a notice issued pursuant to N.J.S.A. 34:11-56:37 that they have been in violation for failure to pay prevailing wages as required within the last five (5) years?

* Yes _____ No _____

*If yes, please attach a signed document explaining any/or all administrative proceedings with the Department within the last five (5) years. Please include any pending administrative proceedings with the Department if any.

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Submission of Certified Payroll Records

All certified payroll records are to be submitted both via the New Jersey Wage Hub online at https://njwages.nj.gov/ and in hard copy to the person named below who is coordinating the activities for the project:

_____
Mr. Timothy Havlusch, Business Administrator
Educational Services Commission of New Jersey

I further warrant that, in the event that the prevailing wage as listed above shall change as of the date of the award of this contract, I shall, if awarded the contract, issue a revised affidavit and forward the same to the Board of Education. N.J.S.A. 34:11-56.25 et seq. and N.J.S.A. 34:1B-5.1

_____

(also type or print name of affiant under signature)

Subscribed and sworn to before me

this ____day _____, 20____

_____

(Seal) Notary Public of New Jersey

My Commission Expires _____

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APPENDIX P – EQUAL OPPORTUNITY MANDATORY BID STATEMENT

A. For **Construction Contract (refer to Exhibit B** following): The parties to this contract agree to incorporate into this contract the mandatory language of subsection 3.4 (a) of the Regulations promulgated by the Treasurer pursuant to N.J.S.A. 10:5-31 *et. seq*., as amended and supplemented from time to time and the Contractor or subcontractor agrees to comply fully with the terms, provisions, and obligations of said subsection 3.4 (a) provided that said subsection shall be applied subject to the terms of subsection 3.4 (d) of said regulations.

The parties to this contract agree to incorporate into this contract the mandatory language of subsections 7.4 (a) and (b) of the Regulations promulgated by the Treasurer pursuant to N.J.S.A. 10:5-31 *et. seq*., as amended and supplemented from time to time and Contractor or subcontractor agrees to comply fully with the terms, provisions and obligations of subsections, 7.4 (a) and (b).

SIGNATURE _____

TITLE _____

COMPANY _____

ADDRESS _____

CITY _____

STATE _____

ZIP CODE _____

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Attachment 3

EXHIBIT B

MANDATORY EQUAL EMPLOYMENT OPPORTUNITY LANGUAGE
N.J.S.A. 10:5-31 et seq. (P.L.1975, c.127)
N.J.A.C. 17:27-1.1 et seq.

CONSTRUCTION CONTRACTS

During the performance of this contract, the contractor agrees as follows:

The contractor or subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Except with respect to affectional or sexual orientation and gender identity or expression, the contractor will ensure that equal employment opportunity is afforded to such applicants in recruitment and employment, and that employees are treated during employment, without regard to their age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Such equal employment opportunity shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Public Agency Compliance Officer setting forth provisions of this nondiscrimination clause.

The contractor or subcontractor, where applicable will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex.

The contractor or subcontractor will send to each labor union, with which it has a collective bargaining agreement, a notice, to be provided by the agency contracting officer, advising the labor union or workers' representative of the contractor's commitments under this act and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

The contractor or subcontractor, where applicable, agrees to comply with any regulations promulgated by the Treasurer, pursuant to N.J.S.A. 10:5-31 et seq., as amended and supplemented from time to time and the Americans with Disabilities Act.

When hiring or scheduling workers in each construction trade, the contractor or subcontractor agrees to make good faith efforts to employ minority and women workers in each construction trade consistent with the targeted employment goal prescribed by N.J.A.C. 17:27-7.2; provided, however, that the Dept. of LWD, Construction EEO Monitoring Program, may, in its discretion, exempt a contractor or subcontractor from compliance with the good faith procedures prescribed by the following provisions, A, B, and C, as long as the Dept. of LWD, Construction EEO Monitoring Program is satisfied that the contractor or subcontractor is employing workers

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EXHIBIT B (*Cont*)

provided by a union which provides evidence, in accordance with standards prescribed by the Dept. of LWD, Construction EEO Monitoring Program, that its percentage of active "card carrying" members who are minority and women workers is equal to or greater than the targeted employment goal established in accordance with N.J.A.C. 17:27-7.2. The contractor or subcontractor agrees that a good faith effort shall include compliance with the following procedures:

(A) If the contractor or subcontractor has a referral agreement or arrangement with a union for a construction trade, the contractor or subcontractor shall, within three business days of the contract award, seek assurances from the union that it will cooperate with the contractor or subcontractor as it fulfills its affirmative action obligations under this contract and in accordance with the rules promulgated by the Treasurer pursuant to N.J.S.A. 10:5-31 et. seq., as supplemented and amended from time to time and the Americans with Disabilities Act. If the contractor or subcontractor is unable to obtain said assurances from the construction trade union at least five business days prior to the commencement of construction work, the contractor or subcontractor agrees to afford equal employment opportunities minority and women workers directly, consistent with this chapter. If the contractor's or subcontractor's prior experience with a construction trade union, regardless of whether the union has provided said assurances, indicates a significant possibility that the trade union will not refer sufficient minority and women workers consistent with affording equal employment opportunities as specified in this chapter, the contractor or subcontractor agrees to be prepared to provide such opportunities to minority and women workers directly, consistent with this chapter, by complying with the hiring or scheduling procedures prescribed under (B) below; and the contractor or subcontractor further agrees to take said action immediately if it determines that the union is not referring minority and women workers consistent with the equal employment opportunity goals set forth in this chapter.

(B) If good faith efforts to meet targeted employment goals have not or cannot be met for each construction trade by adhering to the procedures of (A) above, or if the contractor does not have a referral agreement or arrangement with a union for a construction trade, the contractor or subcontractor agrees to take the following actions:

(l) To notify the public agency compliance officer, the Dept. of LWD, Construction EEO Monitoring Program, and minority and women referral organizations listed by the Division pursuant to N.J.A.C. 17:27-5.3, of its workforce needs, and request referral of minority and women workers;

(2) To notify any minority and women workers who have been listed with it as awaiting available vacancies;

(3) Prior to commencement of work, to request that the local construction trade union refer minority and women workers to fill job openings, provided the contractor or subcontractor has a referral agreement or arrangement with a union for the construction trade;

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EXHIBIT B (*Cont*)

(4) To leave standing requests for additional referral to minority and women workers with the local construction trade union, provided the contractor or subcontractor has a referral agreement or arrangement with a union for the construction trade, the State Training and Employment Service and other approved referral sources in the area;

(5) If it is necessary to lay off some of the workers in a given trade on the construction site, layoffs shall be conducted in compliance with the equal employment opportunity and non-discrimination standards set forth in this regulation, as well as with applicable Federal and State court decisions;

(6) To adhere to the following procedure when minority and women workers apply or are referred to the contractor or subcontractor:

(i) The contactor or subcontractor shall interview the referred minority or women worker.

(ii) If said individuals have never previously received any document or certification signifying a level of qualification lower than that required in order to perform the work of the construction trade, the contractor or subcontractor shall in good faith determine the qualifications of such individuals. The contractor or subcontractor shall hire or schedule those individuals who satisfy appropriate qualification standards in conformity with the equal employment opportunity and non-discrimination principles set forth in this chapter. However, a contractor or subcontractor shall determine that the individual at least possesses the requisite skills, and experience recognized by a union, apprentice program or a referral agency, provided the referral agency is acceptable to the Dept. of LWD, Construction EEO Monitoring Program. If necessary, the contractor or subcontractor shall hire or schedule minority and women workers who qualify as trainees pursuant to these rules. All of the requirements, however, are limited by the provisions of (C) below.

(iii) The name of any interested women or minority individual shall be maintained on a waiting list, and shall be considered for employment as described in (i) above, whenever vacancies occur. At the request of the Dept. of LWD, Construction EEO Monitoring Program, the contractor or subcontractor shall provide evidence of its good faith efforts to employ women and minorities from the list to fill vacancies.

(iv) If, for any reason, said contractor or subcontractor determines that a minority individual or a woman is not qualified or if the individual qualifies as an advanced trainee or apprentice, the contractor or subcontractor shall inform the individual in writing of the reasons for the determination, maintain a copy of the determination in its files, and send a copy to the public agency compliance officer and to the Dept. of LWD, Construction EEO Monitoring Program.

(7) To keep a complete and accurate record of all requests made for the referral of workers in any trade covered by the contract, on forms made available by the Dept. of LWD, Construction EEO Monitoring Program and submitted promptly to the Dept. of LWD, Construction EEO Monitoring Program upon request.

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EXHIBIT B (*Cont*)

(C) The contractor or subcontractor agrees that nothing contained in (B) above shall preclude the contractor or subcontractor from complying with the union hiring hall or apprenticeship policies in any applicable collective bargaining agreement or union hiring hall arrangement, and, where required by custom or agreement, it shall send journeymen and trainees to the union for referral, or to the apprenticeship program for admission, pursuant to such agreement or arrangement. However, where the practices of a union or apprenticeship program will result in the exclusion of minorities and women or the failure to refer minorities and women consistent with the targeted county employment goal, the contractor or subcontractor shall consider for employment persons referred pursuant to (B) above without regard to such agreement or arrangement; provided further, however, that the contractor or subcontractor shall not be required to employ women and minority advanced trainees and trainees in numbers which result in the employment of advanced trainees and trainees as a percentage of the total workforce for the construction trade, which percentage significantly exceeds the apprentice to journey worker ratio specified in the applicable collective bargaining agreement, or in the absence of a collective bargaining agreement, exceeds the ratio established by practice in the area for said construction trade. Also, the contractor or subcontractor agrees that, in implementing the procedures of (B) above, it shall, where applicable, employ minority and women workers residing within the geographical jurisdiction of the union.

After notification of award, but prior to signing a construction contract, the contractor shall submit to the public agency compliance officer and the Dept. of LWD, Construction EEO Monitoring Program an initial project workforce report (Form AA-201) electronically provided to the public agency by the Dept. of LWD, Construction EEO Monitoring Program, through its website, for distribution to and completion by the contractor, in accordance with N.J.A.C. 17:27-7. The contractor also agrees to submit a copy of the Monthly Project Workforce Report once a month thereafter for the duration of this contract to the Dept. of LWD, Construction EEO Monitoring Program, and to the public agency compliance officer.

The contractor agrees to cooperate with the public agency in the payment of budgeted funds, as is necessary, for on-the-job and/or off-thejob programs for outreach and training of minorities and women.

(D) The contractor and its subcontractors shall furnish such reports or other documents to the Dept. of LWD, Construction EEO Monitoring Program as may be requested by the Dept. of LWD, Construction EEO Monitoring Program from time to time in order to carry out the purposes of these regulations, and public agencies shall furnish such information as may be requested by the Dept. of LWD, Construction EEO Monitoring Program for conducting a compliance investigation pursuant to N.J.A.C. 17:27-1.1 et seq.

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Attachment 7

Official Use Only

Assignment

Code

STATE OF NEW JERSEY

DEPARTMENT OF LABOR & WORKFORCE DEVELOPMENT
CONSTRUCTION EEO COMPLIANCE MONITORING PROGRAM

FORM AA-201
Revised 11/11

INITIAL PROJECT WORKFORCE REPORT CONSTRUCTION

For instructions on completing the form, go to: http://www.state.nj.us/treasury/contract_compliance/pdf/aa201ins.pdf

1. FID NUMBER | **2. CONTRACTOR ID NUMBER**

3. NAME AND ADDRESS OF PRIME CONTRACTOR

(Name)

(Street Address)

(City) (State) (Zip Code)

4. IS THIS COMPANY MINORITY OWNED [ ] OR WOMAN OWNED [ ]

5. NAME AND ADDRESS OF PUBLIC AGENCY AWARDING CONTRACT

Name:
Address:

CONTRACT NUMBER **DATE OF AWARD** **DOLLAR AMOUNT OF AWARD**

6. NAME AND ADDRESS OF PROJECT

Name:
Address:

7. PROJECT NUMBER

COUNTY

8. IS THIS PROJECT COVERED BY A PROJEC LABOR AGREEMENT (PLA)? YES

9. TRADE OR CRAFT	PROJECTED TOTAL EMPLOYEES				PROJECTED MINORITY EMPLOYEES				PROJECTED PHASE - IN DATE	PROJECTED COMPLETION DATE
	MALE		FEMALE		MALE		FEMALE			
	J	AP	J	AP	J	AP	J	AP		
1. ASBESTOS WORKER										
2. BRICKLAYER OR MASON										
3. CARPENTER										
4. ELECTRICIAN										
5. GLAZIER										
6. HVAC MECHANIC										
7. IRONWORKER										
8. OPERATING ENGINEER										
9. PAINTER										
10. PLUMBER										
11. ROOFER										
12. SHEET METAL WORKER										
13. SPRINKLER FITTER										
14. STEAMFITTER										
15. SURVEYOR										
16. TILER										
17. TRUCK DRIVER										
18. LABORER										
19. OTHER										
20. OTHER										

I hereby certify that the foregoing statements made by me are true. I am aware that if any of the foregoing statements are willfully false, I am subject to punishment.

(Signature)

10. (Please Print Your Name) (Title)

(Area Code) (Telephone Number) (Ext.) (Date)

SAMPLE

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Attachment 8

FORM AA-202
REVISED 11/11

State Of New Jersey

Department of Labor & Workforce Development
Construction EEO Compliance Monitoring Program

MONTHLY PROJECT WORKFORCE REPORT - CONSTRUCTION

For instructions on completing the form, go to:
http://www.state.nj.us/treasury/contract_compliance/pdf/aa202ins.pdf

3. FID or SS Number

1.Name and address of Prime Contractor

2. Contractor ID Number

4. Reporting Period

(NAME)

5. Public Agency Awarding Contract

Date of Award

(ADDRESS)

6. Name and Location of Project

County

7. Project ID Number

(CITY) (STATE) (ZIP CODE)

8. CONTRACTOR NAME (LIST PRIME CONTRACTOR WITH SUBS FOLLOWING)	9. PERCENT OF WORK COMPLETED	10. TRADE OR CRAFT	CLASSIFICATION (SEE REVERSE)	11. NUMBER OF EMPLOYEES: A. TOTAL	B. BLACK	C. HISPANIC	D. AMERICAN INDIAN	E. ASIAN	F. FEMALES	12. TOTAL NO. OF MIN. EMP.	13. WORK HOURS: TOTAL WORK HOURS	A. MIN. WH	B. FEMALE WH	14. % OF WORKERS: A. % OF MIN. WH	B. % OF FEMALE WH	15. CUM. WORK HRS: TOTAL WORK HOURS	A. MIN. HOURS	B. FEMALE HOURS	16. CUM. % OF W/H: A. % OF MIN. WH	B. % OF FEM. WH
			J																	
			AP																	
			J																	
			AP																	
			J																	
			AP																	
			J																	
			AP																	
			J																	
			AP																	

17. COMPLETED BY (PRINT OR TYPE)

(NAME) (SIGNATURE) (TITLE)

(AREA CODE) (TELEPHONE NUMBER) (EXT.) (DATE)

DEPT. OF LABOR & WORKFORCE DEVELOPMENT CONSTRUCTION EEO COMPLIANCE MONITORING PROGRAM

SAMPLE

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AMERICANS WITH DISABILITIES ACT OF 1990
Equal Opportunity for Individuals with Disability

The Contractor and the Board of Education (hereafter "Owner") do hereby agree that the provisions of Title II of the Americans With Disabilities Act of 1990 (the "Act"), (42 U.S.C. S121 01 *et seq*.), which prohibits discrimination on the basis of disability by public entities in all services, programs, and activities provided or made available by public entities, and the rules and regulations promulgated pursuant there unto, are made a part of this contract. In providing any aid, benefit, or service on behalf of the Owner pursuant to this contract, the Contractor agrees that the performance shall be in strict compliance with the Act. In the event that the Contractor, its agents, servants, employees, or subcontractors violate or are alleged to have violated the Act during the performance of this contract, the Contractor shall defend the owner in any action or administrative proceeding commenced pursuant to this Act. The Contractor shall indemnify, protect, and save harmless the Owner, its agents, servants, and employees from and against any and all suits, claims, losses, demands, or damages, of whatever kind or nature arising out of or claimed to arise out of the alleged violation. The Contractor shall, at its own expense, appear, defend, and pay any and all charges for legal services and any and all costs and other expenses arising from such action or administrative proceeding or incurred in connection therewith. In any and all complaints brought pursuant to the Owner's grievance procedure, the Contractor agrees to abide by any decision of the owner which is rendered pursuant to said grievance procedure. If any action or administrative proceeding results in an award of damages against the Owner, or if the Owner incurs any expense to cure a violation of the ADA which has been brought pursuant to its grievance procedure, the Contractor shall satisfy and discharge the same at its own expense.

The Owner shall, as soon as practicable after a claim has been made against it, give written notice thereof to the Contractor along with full and complete particulars of the claim, If any action or administrative proceeding is brought against the Owner or any of its agents, servants, and employees, the *Owner shall* expeditiously forward or have forwarded to the Contractor every demand, complaint, notice, summons, pleading, or other process received by the Owner or its representatives.

It is expressly agreed and understood that any approval by the Owner of the services provided by the Contractor pursuant to this contract will not relieve the Contractor of the obligation to comply with the Act and to defend, indemnify, protect, and save harmless the Owner pursuant to this paragraph.

It is further agreed and understood that the Owner assumes no obligation to indemnify or save harmless the Contractor, its agents, servants, employees, and subcontractors for any claim which may arise out of their performance of this Agreement. Furthermore, the Contractor expressly understands and agrees that the provisions of this indemnification clause shall in no way limit the Contractor's obligations assumed in this Agreement, nor shall they be construed to relieve the Contractor from any liability, nor preclude the Owner from taking any other actions available to it under any other provisions of the Agreement or otherwise at law.

Name of Company_____

Authorized Agent_____

Title or Position _____

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Signature_____ Date_____

ANTI-DISCRIMINATION PROVISIONS—N.J.S.A. 10:2-1

N.J.S.A. 10:2-1. Antidiscrimination provisions. Every contract for or on behalf of the State or any county or municipality or other political subdivision of the State, or any agency of or authority created by any of the foregoing, for the construction, alteration, or repair of any public building or public work or for the acquisition of materials, equipment, supplies, or services shall contain provisions by which the contractor agrees that:

a. In the hiring of persons for the performance of work under this contract or any subcontract hereunder, or for the procurement, manufacture, assembling or furnishing of any such materials, equipment, supplies or services to be acquired under this contract, no contractor, nor any person acting on behalf of such contractor or subcontractor, shall, by reason of race, creed, color, national origin, ancestry, marital status, gender identity or expression, affectional or sexual orientation or sex, discriminate against any person who is qualified and available to perform the work to which the employment relates;

b. No contractor, subcontractor, nor any person on his behalf shall, in any manner, discriminate against or intimidate any employee engaged in the performance of work under this contract or any subcontract hereunder, or engaged in the procurement, manufacture, assembling or furnishing of any such materials, equipment, supplies or services to be acquired under such contract, on account of race, creed, color, national origin, ancestry, marital status, gender identity or expression, affectional or sexual orientation or sex;

c. There may be deducted from the amount payable to the Contractor by the contracting public agency, under this contract, a penalty of $50.00 for each person for each calendar day during which such person is discriminated against or intimidated in violation of the provisions of the contract; and

d. This contract may be canceled or terminated by the contracting public agency, and all money due or to become due hereunder may be forfeited, for any violation of this section of the contract occurring after notice to the Contractor from the contracting public agency of any prior violation of this section of the contract.

No provision in this section shall be construed to prevent a board of education from designating that a contract, subcontract or other means of procurement of goods, services, equipment, or construction shall be awarded to a small business enterprise, minority business enterprise, or a women's business enterprise pursuant to P.L.1985, c.490 (C.18A:18A-51 *et seq*.).

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Attachment 10

STATE OF NEW JERSEY
DEPARTMENT OF LABOR & WORKFORCE DEVELOPMENT
CONSTRUCTION CONTRACT COMPLIANCE

ATTENTION ALL CONSTRUCTION CONTRACTORS

For your convenience, all contractors have two options in filing the Form AA-202, Monthly Project Workforce Report. As always, you may complete the form manually and mail it to the Dept. of LWD, Construction EEO Monitoring Program, with a copy to the Public Agency Compliance Officer, or you may input your employment data directly onto the Form AA-202 located on our website, with a copy to the Public Agency Officer. To access the Division's website, simply follow these steps:

1. Type **http://www.state.nj.us/treasury/contract_compliance/.**

2. Select the "Premier Business Services Online Forms Account Instructions" link.

3. Please follow all the instructions to set up online access to the web application.

The web application will provide access to current and past reports that can be printed and submitted to the Public Agency awarding the contract as required.

NJ Department of Labor & Workforce Development
Office of Diversity Compliance
Construction Contract Compliance Unit
PO Box 209
Trenton, New Jersey 08625-0209
Telephone (609) 292-9550
Fax (609) 984-4023

SAMPLE

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APPENDIX Q – AFFIRMATIVE ACTION MANDATORY BID STATEMENT

During the performance of the contract, the Contractor agrees as follows:

1. The Contractor or subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, or sex. The Contractor will take affirmative action to ensure that such applicants are recruited and employed, and that employees are treated during their employment, without regard to their age, race, creed, color, national origin, ancestry, marital status, or sex. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the public agency compliance officer setting forth provisions of this nondiscrimination clause.

2. The Contractor or subcontractor, where applicable, will in all solicitations and advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status or sex.

3. The Contractor or subcontractor, where applicable, will send to each labor union or representative or workers with which it has a collective bargaining agreement or other contract or understanding, a notice to be provided by the agency contracting officer, advising that labor union or workers' representative of the Contractor's commitments under this act and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

4. The Contractor or subcontractor, where applicable, agrees to comply with the regulations promulgated by the treasurer pursuant to N.J.S.A. 10:5-31 et. seq., as amended and supplemented from time to time.

5. The Contractor or subcontractor agrees to attempt in good faith to employ minority and female workers consistent with the applicable county employment goals prescribed by N.J.A.C. 17:27-5.2 promulgated by the treasurer pursuant to N.J.S.A. 10:5-31 et. seq., as amended and supplemented from time to time or in accordance with a binding determination of the applicable county employment goals determined by the affirmative action office pursuant to N.J.A.C. 17:27-5.2 promulgated by the treasurer pursuant to N.J.S.A. 10:5-31 et. seq., as amended and supplemented from time to time.

6. The Contractor or subcontractor agrees to inform in writing appropriate recruitment agencies in the area, including employment agencies, placement bureaus, colleges, universities, labor unions that it does not discriminate on the basis of age, race, creed, color, national origin, ancestry, marital status, or sex, and that it will discontinue the use of any recruitment agency which engages in direct or indirect discriminatory practices.

7. The Contractor or subcontractor agrees to revise any of its testing procedures, if necessary, to assure that all personnel testing conforms with the principles of job-related testing, as established by the statutes and court decisions of the state of New Jersey, and as established by applicable federal law and applicable federal court decisions.

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8. The Contractor or subcontractor agrees to review all procedures relating to transfer, upgrading, downgrading, and layoff to ensure that all such actions are taken without regard to age, race, creed, color, national origin, ancestry, marital status, or sex, and conform with the applicable employment goals, consistent with the statutes and court decisions of the state of New Jersey, and applicable federal law and applicable federal court decisions.

The Contractor and its subcontractors shall furnish such reports or other documents to the affirmative action office as may be requested by the office from time to time in order to carry out the purposes of these regulation, and public agencies shall furnish such information as may be requested by the affirmative action office for conducting a compliance investigation pursuant to Subchapter 10 of the Administrative Code (N.J.A.C. 17:27).

No firm may be issued a purchase order or contract unless they comply with the affirmative action regulations.

Please check the appropriate box (only one):

☐ I have a valid Federal Affirmative Action Plan Approval Letter.

☐ I have a current New Jersey Affirmative Action Certificate. (see sample copy Exhibit Q-1)

☐ I have completed an Initial Project Workforce Report (AA201).
(see sample copy Exhibit Q-2, submit most current version)

SIGNATURE _____

TITLE _____

COMPANY _____

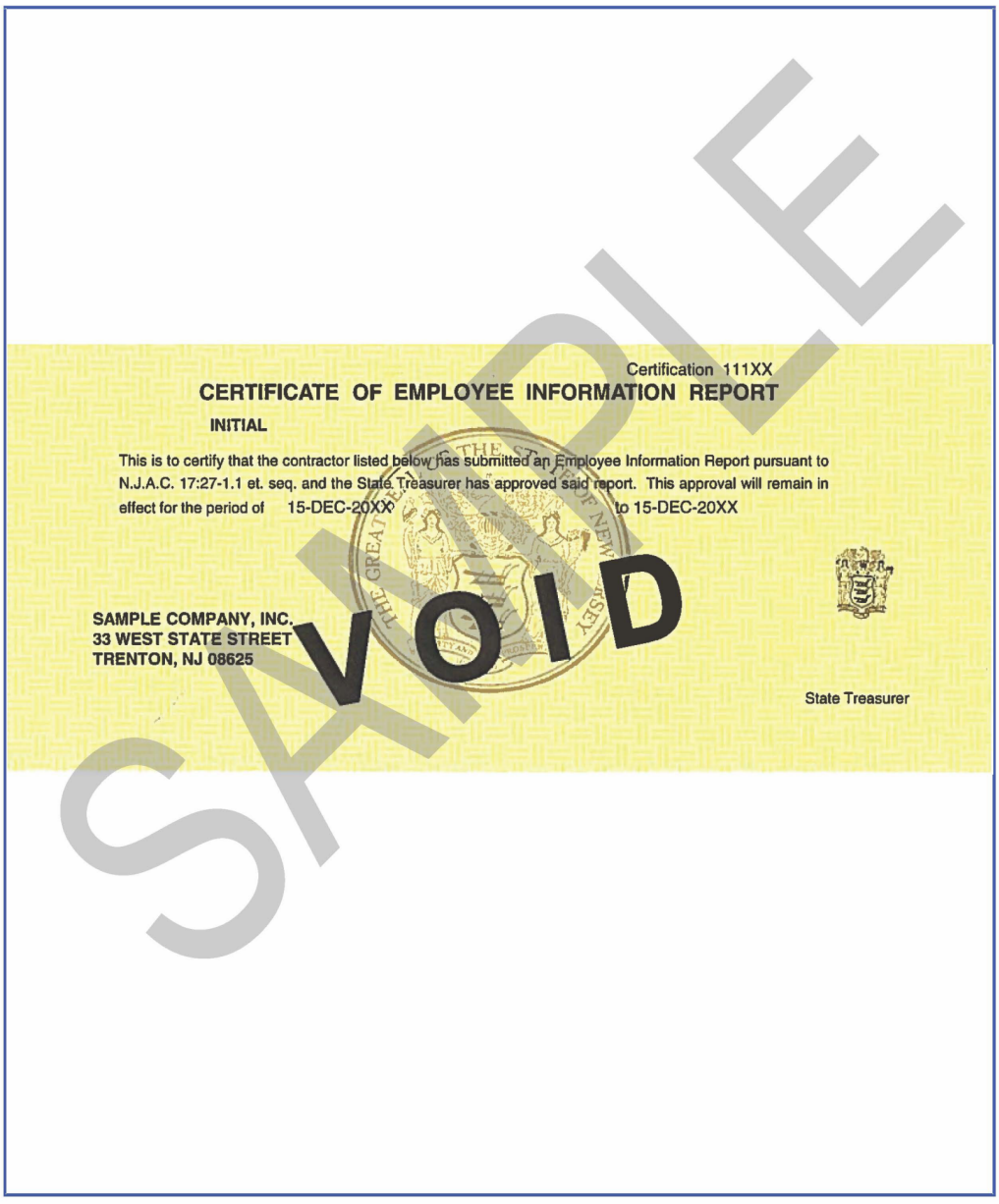
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Exhibit Q-1

NEW JERSEY AFFIRMATIVE ACTION CERTIFICATE (sample)

Attachment 5

SAMPLE CERTIFICATE OF EMPLOYEE INFORMATION REPORT



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Exhibit Q-2

EMPLOYEE INFORMATION REPORT (sample)

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FORM AA-201
Revised 11/11

STATE OF NEW JERSEY

DEPARTMENT OF LABOR & WORKFORCE DEVELOPMENT
CONSTRUCTION EEO COMPLIANCE MONITORING PROGRAM

INITIAL PROJECT WORKFORCE REPORT CONSTRUCTION

Official Use Only

Assignment

Code

For instructions on completing the form, go to: https://www.nj.gov/treasury/contract_compliance/documents/pdf/forms/aa201ins.pdf

1. FID NUMBER

2. CONTRACTOR ID NUMBER

3. NAME AND ADDRESS OF PRIME CONTRACTOR

(Name)

(Street Address)

(City) (State) (Zip Code)

4. IS THIS COMPANY MINORITY OWNED [ ] OR WOMAN OWNED [ ]

5. NAME AND ADDRESS OF PUBLIC AGENCY AWARDING CONTRACT

Name:
Address:

CONTRACT NUMBER **DATE OF AWARD** **DOLLAR AMOUNT OF AWARD**

6. NAME AND ADDRESS OF PROJECT

Name:
Address:

COUNTY

7. PROJECT NUMBER

8. IS THIS PROJECT COVERED BY A PROJEC LABOR AGREEMENT (PLA)? YES

9. TRADE OR CRAFT	PROJECTED TOTAL EMPLOYEES				PROJECTED MINORITY EMPLOYEES				**PROJECTED PHASE - IN DATE**	**PROJECTED COMPLETION DATE**
	MALE		FEMALE		MALE		FEMALE			
	J	AP	J	**AP**	J	AP	J	AP		
1. ASBESTOS WORKER										
2. BRICKLAYER OR MASON										
3. CARPENTER										
4. ELECTRICIAN										
5. GLAZIER										
6. HVAC MECHANIC										
7. IRONWORKER										
8. OPERATING ENGINEER										
9. PAINTER										
10. PLUMBER										
11. ROOFER										
12. SHEET METAL WORKER										
13. SPRINKLER FITTER										
14. STEAMFITTER										
15. SURVEYOR										
16. TILER										
17. TRUCK DRIVER										
18. LABORER										
19. OTHER										
20. OTHER										

I hereby certify that the foregoing statements made by me are true. I am aware that if any of the foregoing statements are willfully false, I am subject to punishment.

(Signature)

10. (Please Print Your Name) **(Title)**

(Area Code) **(Telephone Number)** **(Ext.)** **(Date)**

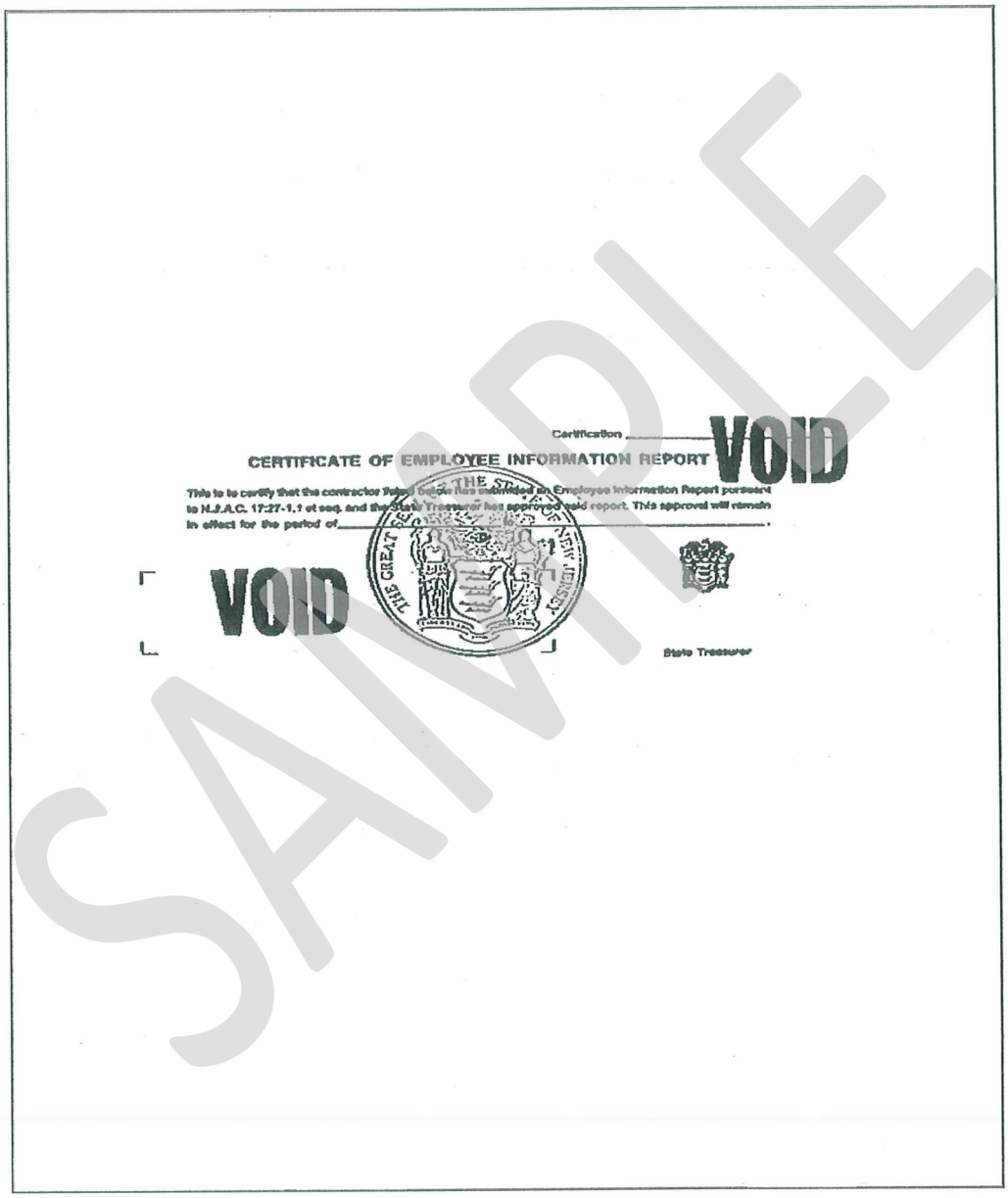
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Exhibit Q-3

CERTIFICATE OF EMPLOYEE INFORMATION REPORT (sample)

Attachment # 6

SAMPLE CERTIFICATE OF EMPLOYEE INFORMATION REPORT



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APPENDIX R – DISCLOSURE OF INTEREST FORM

The attention of prospective Bidders is drawn to the provisions of the School Ethics Law (N.J.S.A. 18A:12-24, *et. seq*.) which prohibits an Officer or Employee of the Owner or member of their immediate family from having an interest in a business organization or engaging in any business transaction, or professional activity which is in substantial conflict with the proper discharge of their duties in the public interest.

In furtherance thereof, every Bidder must disclose below, being an Officer or Employee of the Owner, or whether an immediate family member is an Officer or Employee of the Owner. If the Bidder is a business organization, then disclosure shall be made with respect to anyone having an interest in the business and their immediate family members.

Please answer the following:

Is the Bidder, or a member of the Bidder's immediate family, or anyone having an interest in the Bidder's business organization including their immediate family members, an Officer or Employee of the Owner.

No_____ Yes_____

S_____
*President, Vice President, or Signature of Authorized Representative

_____
Print Name

_____
Title

If Yes, provide the name of the individual and identify the position held in writing to the:

Mr. Timothy Havlusch, Business Administrator / Board Secretary
Educational Services Commission of New Jersey
1660 Stelton Road, 2nd Floor
Piscataway, NJ, 08854

(Attach a copy of the correspondence to this form)

NOTE: All terms used herein are to be construed in accordance with their meaning under the School Ethics Law, cited above.

*FAILURE TO SIGN THIS AFFIDAVIT BY A DULY AUTHORIZED COMPANY OFFICIAL MAY RESULT IN REJECTION OF THIS PROPOSAL.

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APPENDIX S – CERTIFIED SWORN STATEMENT ON
NON-DISBARMENT/DISQUALIFICATION/SUSPENSION

I, _____of the _____ of in the county of _____ State of _____ of full age, being duly sworn according to law on my oath deposed and say that: I am _____ of the firm of _____, the Bidder making the Proposal for the above named projects, and that I executed the said Proposal with full authority to do so; and that said Contractor so swears at this time is not included on the State Treasurer's, the Authority's, the Corporation's, or the Federal Government's list of Debarred, Suspended or Disqualified Bidders as a result of action taken by any State or Federal agency. I furthermore understand that the District shall immediately notify the State, the Authority, the Corporation, and the Unit of Fiscal Integrity in writing whenever it appears that a Bidder is on the Treasurer's, the Authority's, the Corporation's, or the Federal Government's List. The State and/or the Authority, and/or the Corporation reserve the right in such circumstances to immediately suspend such Bidder from contracting and to take such other action as is deemed appropriate pursuant to N.J.A.C. 17:19-4 *et seq*. or any applicable regulation issued by the Authority.

_____
(also type or print name of affiant under signature)

Subscribed and sworn to before me

this ____day _____, 20____

_____
(Seal) Notary Public of New Jersey

My Commission Expires _____

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APPENDIX T - ASBESTOS ACKNOWLEDGEMENT FORM

TO ALL CONTRACTORS/WORKERS

Pursuant to AHERA (Asbestos Hazard Emergency Response Act) Regulations, you are hereby informed that the Owner has conducted an inspection of its buildings for asbestos containing building materials. A Management Plan has been developed and approved. The plan identifies asbestos containing building materials, assesses their friability (the potential to be crumbled or reduced to powder by hand pressure), and recommends action based upon the potential release of asbestos fibers.

You are hereby informed that you have the right to inspect the Management Plan prior to the commencement of your work. You are also directed to inform the Owner if you are going to be working in an area that may cause you to disturb any existing asbestos containing building materials.

Your signature below acknowledges that you have been informed prior to the commencement of work that you have been made aware of your rights under the AHERA Regulations. Each Prime Contractor shall notify its subcontractors of the above notification.

Name (printed)	Signature
Company Name (printed)	Date

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APPENDIX U - POLITICAL CONTRIBUTION DISCLOSURE AFFIDAVIT

STATE OF _____)

ss:

COUNTY OF _____)

I, _____, residing in the _____ of _____ in the County of _____ and State of _____, of full age, being duly sworn according to law on my oath depose and say:

I am _____ of the firm of _____, the Bidder making the proposal for the above named project. I am aware that:

A. Pursuant to N.J.A.C. 6A:23A-6.3, no business entity which has made a reportable contribution (as defined in N.J.S.A. 19:44A-1 *et seq*.) to a member of the Board of Education during the preceding one (1) year shall be awarded a contract in excess of $17,500. Certification shall include requirements, limitations, and updated monetary limits imposed by The Election Transparency Act of 2023, effective January 1, 2023, and amending various parts of the statutory law, supplementing P.L.1973, c.83(19:44A-1 *et seq*.), and repealing section 1 of P.L.2005, c.271.

B. Any business entity doing business with the School District is precluded from making any reportable contributions to any member of the Board of Education during the term of the Contract.

C. When a business entity is a natural person, a contribution by that person's spouse or child that resides therewith shall be deemed to be a contribution by the business entity. Where a business entity is other than a natural person, a contribution by the person or other business entity having an interest therein shall be deemed to be a contribution by the business entity.

D. A political contribution disclosure (hereinafter referred to as "PCD") form is required to be submitted for all contracts greater than $17,500. No contract award shall be made unless the completed PCD is submitted to the Board office prior to the award. Failure to submit the PCD shall result in the rejection of the bid. A Sample Form is included as part of the bidding documents and must be completed by the Bidder.

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I aver that no reportable contributions have been made by the Bidder in violation of the provisions set forth in N.J.A.C. 6A:23A-6.3. If the Bidder is the lowest responsible Bidder, a completed PCD form shall be submitted to the Board office ten (10) days prior to the contract award.

Sworn to and subscribed
to this _____ day of
_____, 20__

By:_____
Signature of Principal

_____
(Name)

_____
Notary Public of New Jersey

_____
(Title)

My Commission expires __/__/

Certification on Behalf of a Company, Partnership, or Organization and All Individuals Whose Contributions are Attributable to the Entity Pursuant to Executive Order No. 117 (2008)

I hereby certify as follows:

Neither the below-named entity nor any individual whose contributions are attributable to the entity pursuant to Executive Order No. 117 (2008) has solicited or made any reportable contribution of money or pledge of contribution, including in-kind contributions or company or organization contributions, to the following:

a) Any candidate committee and/or election fund of the Governor;

b) A State political party committee;

c) A legislative leadership committee;

d) A county political party committee; or

e) A municipal political party committee.

I certify as an officer or authorized representative of the Company or Organization identified below that, to the best of my knowledge and belief, the foregoing statements by me are true. I am aware that if any of the statements are willfully false, I am subject to punishment.

Name of Company, Partnership or Organization:

_____

Signed: _____ **Title:** _____

Print Name: _____ **Date:** _____

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Circle One of the Following Which Applies:

(A) The Company, Partnership or Organization is the vendor;

or

(B) the Company, Partnership or Organization is a Principal (more than 10% ownership or control) of the vendor, a Subsidiary controlled by the vendor, or a Political Organization (e.g., PAC) controlled by the vendor.

**Please note that if the person signing this Certification is not signing on behalf of all individuals whose contributions are attributable to the entity pursuant to Executive Order No. 117 (2008), each of those individuals will be required to submit a separate individual Certification*.

Individual Certification of Compliance with Executive Order No. 117 (2008)

I hereby certify as follows:

On or after November 15, 2008, I have not solicited or made any reportable contribution of money or pledge of contribution, including in-kind contributions or company or organization contributions, to the following:

a) Any candidate committee and/or election fund of the Governor;

b) A State political party committee;

c) A legislative leadership committee;

d) A county political party committee; or

e) A municipal political party committee.

I certify that, to the best of my knowledge and belief, the foregoing statements by me are true. I am aware that if any of the statements are willfully false, I am subject to punishment.

Signed: _____

Print Name: _____ **Date:** _____

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C. 271 POLITICAL CONTRIBUTION DISCLOSURE FORM

Contractor Instructions, amended for Boards of Education pursuant to N.J.A.C. 6A:23A-6.3

Pursuant to N.J.A.C. 6A:23A-6.3, business entities (contractors) receiving contracts from boards of education are subject to the provisions of P.L. 2005, c. 271, s.2 (N.J.S.A. 19:44A-20.26). This law provides that the contractor shall disclose contributions to:

- any State, county, or municipal committee of a political party
- any legislative leadership committee
- any continuing political committee (a.k.a., political action committee)
- any candidate committee of a candidate for, or holder of, an elective office:
    - of the public entity awarding the contract
    - of that county in which that public entity is located
    - of another public entity within that county, or
    - of a legislative district in which that public entity is located or, when the public entity is a county, of any legislative district which includes all or part of the county

The disclosure must list reportable contributions to any of the committees that exceed $200 per election cycle that were made during the 12 months prior to award of the contract. See N.J.S.A. 19:44A-8 and 19:44A-16 for more details on reportable contributions.

The enclosed list of agencies is intended to assist the Contractor in identifying the public agencies whose elected officials or candidate committees are affected by the disclosure requirement. It is the Contractor's responsibility to identify the specific committees to which contributions have been made and need to be disclosed. The disclosed information may exceed the minimum requirement.

N.J.S.A. 19:44A-20.26 itemizes the parties from whom contributions must be disclosed when a business entity is not a natural person. This includes the following:

- individuals with an "interest" ownership or control of more than 10% of the profits or assets of a business entity or 10% of the stock in the case of a business entity that is a corporation for profit
- all principals, partners, officers, or directors of the business entity or their spouses
- any subsidiaries directly or indirectly controlled by the business entity
- IRS Code Section 527 New Jersey based organizations, directly or indirectly controlled by the business entity, and filing as continuing political committees (PACs).

When the business entity is a natural person, "a contribution by that person's spouse or child, residing therewith, shall be deemed to be a contribution by the business entity." [N.J.S.A. 19:44A-20.26(b)] The contributor must be listed on the disclosure.

Any business entity that fails to comply with the disclosure provisions shall be subject to a fine imposed by ELEC in an amount to be determined by the Commission which may be based upon the amount that the business entity failed to report.

The attached disclosure form, a content-consistent facsimile, or an electronic data file containing the required details (along with a signed cover sheet) may be used as the Contractor's submission and is disclosable to the public under the Open Public Records Act.

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C. 271 POLITICAL CONTRIBUTION DISCLOSURE FORM

Required Pursuant to N.J.S.A. 19:44A-20.26 and N.J.A.C. 6A:23A-6.3(a)(4)

Part I – Contractor Information

Contractor Name: _____
Address: _____
City: State: Zip: _____

The undersigned being authorized to certify, hereby certifies that the submission provided herein represents compliance with the provisions of N.J.S.A. 19:44A-20.26.

_____ _____ _____
Signature Printed Name Title

Part II – Contribution Disclosure

Disclosure requirement: Pursuant to N.J.S.A. 19:44A-20.26 this disclosure must include all reportable political contributions (more than $200 per election cycle) over the 12 months prior to submission to the committees of the government entities listed on the form provided by the local unit.

☐ Check here if disclosure is provided in electronic form.

Contributor Name	Recipient Name	Date	Dollar Amount
			$

Contractor may attach continuation page as needed.

This form or its permitted facsimile must be submitted to the local unit no later than ten (10) days prior to the award of the contract.

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Continuation Page, as needed

C. 271 POLITICAL CONTRIBUTION DISCLOSURE FORM
Required Pursuant To N.J.S.A. 19:44A-20.26

Page ___ of _____

Vendor Name:

Contributor Name	Recipient Name	Date	Dollar Amount
			$

☐ Check here if the information is continued on subsequent page(s)

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List of Agencies with Elected Officials Required for Political Contribution Disclosure
N.J.S.A. 19:44A-20.26

County Name: Middlesex
State: Governor, and Legislative Leadership Committees
Legislative District #s: 13, 14, 17, 18, 19, 22
State Senator and two members of the General Assembly per district.

County:
Commissioners County Clerk Sheriff Surrogate

Municipalities (Mayor and members of governing body, regardless of title):

Carteret Borough
Cranbury Township
Dunellen Borough
East Brunswick Township
Edison Township
Helmetta Borough
Highland Park Borough
Jamesburg Borough
Metuchen Borough
Middlesex Borough
Milltown Borough
Monroe Township
New Brunswick City
North Brunswick Township
Old Bridge Township
Perth Amboy City
Piscataway Township
Plainsboro Township
Sayreville Borough
South Amboy City
South Brunswick Township
South Plainfield Borough
South River Borough
Spotswood Borough
Woodbridge Township

Boards of Education (Members of the Board):

Carteret Borough
Cranbury Township
Dunellen Borough
East Brunswick Township
Edison Township
Helmetta Borough
Highland Park Borough
Jamesburg Borough
Metuchen Borough
Middlesex Borough
Milltown Borough
Monroe Township
North Brunswick Township
Old Bridge Township
Perth Amboy City
Piscataway Township
Sayreville Borough
South Amboy City
South Brunswick Township
South Plainfield Borough
South River Borough
Spotswood Borough
West Windsor-Plainsboro Regional
Woodbridge Township

Fire Districts (Board of Fire Commissioners):

East Brunswick Township Fire District No. 1
East Brunswick Township Fire District No. 2
East Brunswick Township Fire District No. 3
Jamesburg Borough Fire District No. 1
Monroe Township Fire District No. 1
Monroe Township Fire District No. 2
Monroe Township Fire District No. 3
Old Bridge Township Fire District No. 1
Old Bridge Township Fire District No. 2
Old Bridge Township Fire District No. 3
Old Bridge Township Fire District No. 4
Piscataway Township Fire District No. 1
Piscataway Township Fire District No. 2
Piscataway Township Fire District No. 3
Piscataway Township Fire District No. 4
Plainsboro Township Fire District No. 1
South Brunswick Township Fire District No 1
South Brunswick Township Fire District No. 2
South Brunswick Township Fire District No. 3
Woodbridge Township Fire District No. 1
Woodbridge Township Fire District No. 2
Woodbridge Township Fire District No. 4
Woodbridge Township Fire District No. 5
Woodbridge Township Fire District No. 7
Woodbridge Township Fire District No. 8
Woodbridge Township Fire District No. 9
Woodbridge Township Fire District No. 10
Woodbridge Township Fire District No. 11
Woodbridge Township Fire District No. 12

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-APPENDIX X - SWORN CONTRACTOR CERTIFICATION REQUIREMENTS

In accordance with N.J.S.A. 18A:7G-37, a pre-qualified Contractor seeking to bid school facilities projects, and any subcontractors, that are required to be named under N.J.S.A. 18A:7G-1 et.seq. shall, as a condition of bidding, submit this Sworn Contractor Certification regarding qualifications and credentials.

NOTE: This list of submittals in the Public School Contracts Law applies to the Bidder and to all listed subcontractors required to be identified by N.J.S.A. 18A:18A-18, in these Bid Documents, being included. REFER TO BIDDER'S CHECKLIST TO AID IN ASSURING A COMPLETE BID SUBMISSION. Failure to complete, sign, and submit the certification for Bidder and subs may lead to the bid being rejected.

By Signing and submitting this Sworn Contractor Certification the principal Owner or Officer of the Company or Corporation certifies that the firm has the following qualifications and credentials:

1. A current, valid **certificate of contractor registration** issued pursuant to "The Public Works Contractor Registration Act," N.J.S.A. 34:11-56:48 et.seq. A copy of which may be submitted with its bid (Appendix N1) but which must be submitted prior to contract award;
2. A current, valid **Business Registration Certificate** issued by the Department of Treasury, a copy of which may be included with its bid (Appendix N2); but which must be submitted prior to contract award if not submitted with the bid. A current, valid Certificate of Authority will be required for foreign corporations to allow them to perform work in New Jersey.
   For foreign corporations, they may submit this with their bid, but must provide it prior to award if not included with the bid.
3. A current valid **Contractor trade license** required under applicable New Jersey Law for any specialty trade or specialty area in which the firm seeks to perform work, a copy of which is submitted with its bid (ref. Section 00 21 13, Para. 1.14.E.7.d);
4. During the term of the school facilities project, I as Principal Owner or Officer of the Company or corporation, as Contractor, will have in place a suitable quality control and quality assurance program and an appropriate safety and health plan.
5. Verifies that, at the time of bidding, the amount of its bid proposal and value of all of its outstanding **incomplete contracts** does not exceed the firm's existing aggregate rating limit (Appendix I).

As the principal Owner or Officer of the Company or Corporation, I certify that, at the time of bidding this project, the amount of the bid proposal and the value of all this firm's outstanding incomplete contracts does not exceed the firm's existing aggregate rating limit.

Name of Company submitting this Certification:_____

Printed Name of
Authorized Representative:_____ Signature: _____

Date: _____

Corporate Seal

END OF DOCUMENT 00 43 00

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STANDARD BID DOCUMENT REFERENCE	
Name of Form:	**FEDERAL NON-DEBARMENT CERTIFICATION**
Statutory Reference:	N.J.S.A. 52:32-44.1
Description:	Meets NJ statutory criteria for certification of non-debarment by a federal government agency.

Explanation of the Certification Requirements under N.J.S.A. 52:32-44.1

Pursuant to New Jersey state law, any natural person, company, firm, association, corporation, or other entity that is prohibited, or "debarred," from contracting with the federal government agencies, shall also be prohibited from contracting for public work in the state of New Jersey. This prohibition also extends to any affiliate organization(s) held by or subject to the control of that prohibited person or entity.

Prior to awarding a contract for public work a local unit must obtain written certification from the contracting person or entity through the form below, attesting to their non-debarment from contracting with federal government agencies.

The Contracting Unit for this project has filled-in the boilerplate information in the certification sections of Parts II and III regarding their name and type of contracting unit so that the form is ready for use by the successful Bidder.

Certification Form follows:

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CERTIFICATION OF NON-DEBARMENT FOR FEDERAL GOVERNMENT CONTRACTS

N.J.S.A. 52:32-44.1 (P.L. 2019, c.406)

As used herein, "Affiliate" means any entity that (1) directly, indirectly, or constructively controls another entity, (2) is directly, indirectly, or constructively controlled by another entity, or (3) is subject to the control of a common entity. An entity controls another entity if it owns, directly or individually, more than 50% of the ownership interest in that entity.

This certification shall be completed, certified to, and submitted to the Educational Services Commission of New Jersey prior to contract award.

PART I: BIDDER INFORMATION	
Individual or Organization Name (Bidder)	
Address of Bidder	
DUNS Code (if applicable)	
CAGE Code (if applicable)	
Check the box that represents the type of business organization:	

☐Sole Proprietorship ☐Non-Profit Corporation

☐For-Profit Corporation (any type) ☐Limited Liability Company (LLC) ☐Partnership

☐Limited Partnership ☐Limited Liability Partnership (LLP)

☐Other (be specific): _____

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PART II – IDENTIFICATION OF AFFILIATES: **Individual or Entity Owning Greater than 50 Percent of Bidder (Parent Organization)**	
Section A (Check the Box that applies)	
☐	Below is the name and address of the interest holder(s) owning, directly, indirectly, or constructively, as the case may be, a greater than 50 percent interest in the Bidder.
Name of Individual or Organization	
Address	
OR	
☐	No one interest holder(s) owns, directly, indirectly, or constructively, a greater than 50 percent interest in the Bidder.
PART II – IDENTIFICATION OF AFFILIATES, Continued: **Bidder-Controlled Entities (Child Entities)**	
Section A (Check the Box that applies)	
☐	Below is the name and address of the entities in which the **Bidder listed in Part I** owns, directly, indirectly, or constructively, as the case may be, a greater than 50 percent interest.
Name of Individual or Organization	**Address**
** Add additional sheets if necessary**	
OR	
	The **Bidder listed above in Part I** does not own, directly,

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☐	indirectly or constructively, a greater than 50 percent interest in any other entity.
PART II – IDENTIFICATION OF AFFILIATES, Continued: **Entities under Common Control with Bidder (Sister Entities)**	
Section A (Check the Box that applies)	
☐	Below is the name and address of all entities, **other than the Bidder listed in Part I and the Bidder-Controlled Entities listed above in Part II**, of which the **Parent Organization listed in Part II** owns, directly, indirectly, or constructively, as the case may be, a greater than 50 percent interest.
Name of Individual or Organization	**Address**
** Add additional sheets if necessary**	
OR	
☐	The **Parent Organization listed above in Part II** does not own, directly, indirectly, or constructively, as the case may be, a greater than 50 percent interest in any entity other than the **Bidder listed in Part I and the Bidder-Controlled Entities listed above in Part II**.

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PART III – CERTIFICATION OF NON-DEBARMENT: Individual or Organization			
I hereby certify that the **individual or organization listed above in Part I** (i.e. the **"Bidder"**) is not debarred by the federal government from contracting with a federal agency, **nor are any of its "Affiliates", as defined above and identified herein in Part II**, so debarred. I further acknowledge: that I am authorized to execute this certification on behalf of the above-named organization; that the ***<Educational Services Commission of New Jersey >*** is relying on the information contained herein and that I am under a continuing obligation from the date of this certification through the date of contract award by the above named public agency to notify the Board of Education in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I am subject to criminal prosecution under the law and that it will constitute a material breach of my agreement(s) with the Board of Education, permitting said Board of Education to declare any contract(s) resulting from this certification void and unenforceable.			
Full Name (Print):		Title:	
Signature:		Date:	

End of Certification Form.

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SECTION 04 20 00
UNIT MASONRY

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Concrete masonry units.
2. Lintels.
3. Reinforcement.
4. Embedded flashing.
5. Mortar and grout mixes.

B. Related Requirements:

1. Section 047200 "Cast Stone Masonry" for cast stone trim units.
2. Section 047300 "Manufactured Stone Veneer" for stone set as adhered veneer.

1.2 ALLOWANCES

A. See Section 012100 "Allowances" for description of allowances affecting items specified in this Section.

1.3 DEFINITIONS

A. CMU(s): Concrete masonry unit(s).

B. Exposed: Weather-exposed side of a constructed wall.

C. Reinforced Masonry: Masonry containing reinforcing steel within grouted cells.

1.4 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site .

1.5 ACTION SUBMITTALS

A. Product Data: For each type of specified product.

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B. Shop Drawings:

1. Masonry Units: Indicate sizes, profiles, coursing, and locations of special shapes.
2. Reinforcing Steel: Indicate bending, lap lengths, and placement of unit masonry reinforcing bars. Comply with ACI PRC 315R. Indicate elevations of reinforced walls.
3. Lintel design and types required.
4. Fabricated Flashing: Detail corner units, end-dam units, and other special applications.

C. Samples for Initial Selection:

1. Prefaced CMUs: Full-size units, minimum of five .
2. Colored Mortar: Full range of manufacturer's standard colors.
3. Surface Coating: Potassium Silicate Coating

D. Samples for Verification: For each type and color of the following:

1. Prefaced CMUs: Full-size units, minimum of five .
2. Colored mortar.
3. Surface Coating: Potassium Silicate.
4. Special Masonry Shapes: One of each unique shape.
5. Pigmented Mortar: Make Samples using same sand and mortar ingredients to be used on Project.
6. Colored-Aggregate Mortar: Make Samples using same sand and mortar ingredients to be used on Project.
7. Cavity drainage material.
8. Accessories embedded in masonry.

1.6 INFORMATIONAL SUBMITTALS

A. List of Materials Used in Constructing Mockups: List generic product names together with manufacturers, manufacturers' product names, model numbers, lot numbers, batch numbers, source of supply, and other information as required to identify materials used. Include mix proportions for mortar and grout and source of aggregates.

1. Submittal is for information only. Receipt of list does not constitute approval of deviations from the Contract Documents unless such deviations are specifically brought to the attention of Architect and approved in writing.

B. Material Certificates: For each type of the following:

1. Masonry units.

a. Include material test reports substantiating compliance with requirements .
b. For brick, include size-variation data verifying that actual range of sizes falls within specified tolerances.
c. For exposed brick, include test report for efflorescence in accordance with ASTM C67/C67M.
d. For surface-coated brick, include test report for durability of surface appearance after 50 cycles of freezing and thawing in accordance with ASTM C67/C67M .
e. For masonry units used in structural masonry , include data and calculations

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establishing average net-area compressive strength of units.

2. Integral water repellent used within CMUs.
3. Cementitious materials. Include name of manufacturer, brand name, and type.
4. Mortar admixtures.
5. Preblended, dry mortar mixes. Include description of type and proportions of ingredients.
6. Grout mixes. Include description of type and proportions of ingredients.
7. Reinforcing bars.
8. Joint reinforcement.
9. Anchors, ties, and metal accessories.

C. Mix Designs: For each type of mortar and grout . Include description of type and proportions of ingredients.

1. Include test reports for mortar mixes required to comply with property specification. Test in accordance with ASTM C109/C109M for compressive strength, ASTM C1506 for water retention, and ASTM C91/C91M for air content.
2. Include test reports, in accordance with ASTM C1019, for grout mixes required to comply with compressive strength requirement.

D. Qualification Statements: For testing agency.

E. Weather Procedures: Detailed description of methods, materials, and equipment to be used to comply with requirements for cold and hot weather.

1.7 QUALITY ASSURANCE

A. Installer Qualifications: All masonry flashing installers must complete the International Masonry Institute Flashing Upgrade training course.

B. Testing Agency: Qualified in accordance with ASTM C1093 for testing indicated.

1.8 MOCKUPS

A. Wall Mockups: Build mockups to verify selections made under Sample submittals and to set quality standards for installation .

1. Build mockups for each type of exposed unit masonry construction in sizes approximately 48 inches long by 48 inches high by full thickness, including face and backup wythes and accessories.

a. Include a sealant-filled joint at least 16 inches long in each mockup.
b. Include wall substrate and cavity materials, veneer anchors, flashing , and weep holes in exterior masonry-veneer wall mockup.
c. Include specified unit masonry on one face of interior unit masonry wall mockup.

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1.9 DELIVERY, STORAGE, AND HANDLING

A. Store masonry units on elevated platforms in a dry location. If units are not stored in an enclosed location, cover tops and sides of stacks with waterproof sheeting, securely tied. If units become wet, do not install until they are dry.

B. Store cementitious materials on elevated platforms, under cover, and in a dry location. Do not use cementitious materials that have become damp.

C. Store aggregates where grading and other required characteristics can be maintained and contamination avoided.

D. Deliver preblended, dry mortar mix in moisture-resistant containers. Store preblended, dry mortar mix in delivery containers on elevated platforms in a dry location or in covered weatherproof dispensing silos.

E. Store masonry accessories, including metal items, to prevent corrosion and accumulation of dirt and oil.

1.10 FIELD CONDITIONS

A. Protection of Masonry: During construction, cover tops of walls, projections, and sills with waterproof sheeting at end of each day's work. Cover partially completed masonry when construction is not in progress.

1. Extend cover a minimum of 24 inches down both sides of walls, and hold cover securely in place.
2. Where one wythe of multiwythe masonry walls is completed in advance of other wythes, secure cover a minimum of 24 inches down face next to unconstructed wythe, and hold cover in place.

B. Do not apply uniform floor or roof loads for at least 12 hours and concentrated loads for at least three days after building masonry walls or columns.

C. Stain Prevention: Prevent grout, mortar, and soil from staining the face of masonry to be left exposed or painted. Immediately remove grout, mortar, and soil that come in contact with such masonry.

1. Protect base of walls from rain-splashed mud and from mortar splatter by spreading coverings on ground and over wall surface.
2. Protect sills, ledges, and projections from mortar droppings.
3. Protect surfaces of window and door frames, as well as similar products with painted and integral finishes, from mortar droppings.
4. Turn scaffold boards near the wall on edge at the end of each day to prevent rain from splashing mortar and dirt onto completed masonry.

D. Cold-Weather Requirements: Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen substrates. Remove and replace unit masonry damaged by frost or by freezing conditions. Comply with cold-weather construction requirements contained in TMS 402/602.

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1. Cold-Weather Cleaning: Use liquid cleaning methods only when air temperature is 40 deg F and higher and will remain so until masonry has dried, but not less than seven days after completing cleaning.

E. Hot-Weather Requirements: Comply with hot-weather construction requirements contained in TMS 402/602.

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

A. Obtain exposed masonry units and mortar aggregate from single source .

B. For exposed masonry units and cementitious mortar components , obtain each color and grade from single source with resources to provide materials of consistent quality in appearance and physical properties.

2.2 PERFORMANCE REQUIREMENTS

A. Provide structural unit masonry that develops indicated net-area compressive strengths at 28 days.

1. Determine net-area compressive strength of masonry from average net-area compressive strengths of masonry units and mortar types (unit-strength method) in accordance with TMS 402/602.
2. Determine net-area compressive strength of masonry by testing masonry prisms in accordance with ASTM C1314.

2.3 UNIT MASONRY, GENERAL

A. Masonry Standard: Comply with TMS 402/602, except as modified by requirements in the Contract Documents.

B. Defective Units: Referenced masonry unit standards may allow a certain percentage of units to contain chips, cracks, or other defects exceeding limits stated. Do not use units where such defects are exposed in the completed Work.

2.4 CONCRETE MASONRY UNITS

A. General: Provide shapes indicated and as follows, with exposed surfaces matching exposed faces of adjacent units unless otherwise indicated.

1. Provide special shapes for lintels, corners, jambs, sashes, movement joints, headers, bonding, and other special conditions.
2. Provide bullnose units for outside corners unless otherwise indicated.

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B. CMUs : ASTM C90, medium weight unless otherwise indicated.

1. Size (Width): Manufactured to dimensions 3/8 inch less than nominal dimensions.
2. Exposed Faces: Provide color and texture matching the range represented by Architect's sample.
3. Interior / **Exterior** Face: Provide Potassium Silicate coating.
4. Faces to Receive Plaster: Where units are indicated to receive a direct application of plaster, provide textured-face units made with gap-graded aggregates.

C. Prefaced CMUs: ASTM C90, lightweight, with manufacturer's standard smooth resinous facing complying with ASTM C744.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following :

    a. Echelon Masonry, an Oldcastle APG brand
    b. Eastern Concrete Materials
    c. York Building Products
    d. Or approved equal.

2. Composition: Hollow Solid units.
3. Size: Manufactured to dimensions specified in "CMUs" Paragraph but with prefaced surfaces having 1/16-inch- wide returns of facing to create 1/4-inch- wide mortar joints with modular coursing.
4. Colors and Patterns: As selected by Architect from manufacturer's full range .

D. Interior / **Exterior** Surface Coating: Potassium Silicate Coating, applied to interior following manufacturer's standard instructions.

1. Manufacture: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following :

    a. Jahn Masonry Restoration System
    b. Edison Coatings
    c. Or approved equal.

2. Colors: As selected by Architect from manufacturer’s full catalog range.

2.5 LINTELS

A. Masonry Lintels : Prefabricated or built-in-place masonry lintels made from bond beam CMUs matching adjacent CMUs in color, texture, and density classification, with reinforcing bars placed as indicated and filled with coarse grout. Cure precast lintels before handling and installing. Temporarily support built-in-place lintels until cured.

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2.6 MORTAR AND GROUT MATERIALS

A. General: Provide mortar and grout materials to achieve performance requirements as specified in mortar and grout mixes.

B. Colored Mortar: Packaged blend made from portland cement-lime mix and mortar pigments, all complying with specified requirements, and containing no other ingredients.

1. Formulate blend as required to produce color indicated or, if not indicated, as selected from manufacturer's standard colors.
2. Pigments do not exceed 10 percent of portland cement by weight.
3. Pigments do not exceed 5 percent of mortar cement by weight.

C. Water: Potable.

2.7 REINFORCEMENT

A. Masonry-Joint Reinforcement for Single-Wythe Masonry:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

a. Echelon Masonry, an Oldcastle APG brand
b. Eastern Concrete Materials
c. Hohmann & Barnard, Inc
d. Or approved equal.

2. Type: Ladder or truss with single pair of side rods.

2.8 TIES AND ANCHORS

A. General: Ties and anchors extend at least 1-1/2 inches into veneer but with at least a 5/8-inch cover on outside face.

B. Materials: Provide ties and anchors specified in this article that are made from materials that comply with the following unless otherwise indicated:

1. Mill-Galvanized, Carbon-Steel Wire: ASTM A1064/A1064M, with ASTM A641/A641M, Class 1 coating.
2. Hot-Dip Galvanized, Carbon-Steel Wire: ASTM A1064/A1064M, with ASTM A153/A153M, Class B coating.
3. Stainless Steel Wire: ASTM A580/A580M, Type 316 .
4. Galvanized-Steel Sheet: ASTM A653/A653M, Commercial Steel, G60 zinc coating.
5. Steel Sheet, Galvanized after Fabrication: ASTM A1008/A1008M, Commercial Steel, with ASTM A153/A153M, Class B coating.
6. Stainless Steel Sheet: ASTM A240/A240M or ASTM A666/A666M, Type 316 .
7. Steel Plates, Shapes, and Bars: ASTM A36/A36M.
8. Stainless Steel Bars: ASTM A276 or ASTM A666/A666M, Type 304.

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2.9 EMBEDDED FLASHING

A. Metal Flashing: Provide metal flashing complying with SMACNA's "Architectural Sheet Metal Manual."

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following :

    a. Cheney Flashing Company
    b. Hohmann & Barnard, Inc
    c. Or approved equal.

2. Stainless Steel: ASTM A240/A240M or ASTM A666/A666M, Type 316 , 0.016 inch thick.
3. Fabricate continuous flashings in sections 96 inches long minimum, but not exceeding 12 ft.. Provide splice plates at joints of formed, smooth metal flashing.
4. Fabricate metal drip edges from stainless steel. Extend at least 3 inches into wall and 1/2 inch out from wall, with outer edge bent down 30 degrees and hemmed.
5. Fabricate metal sealant stops from stainless steel. Extend at least 3 inches into wall and out to exterior face of wall. At exterior face of wall, bend metal back on itself for 3/4 inch and down into joint 1/4 inch to form a stop for retaining sealant backer rod.
6. Fabricate metal expansion-joint strips from stainless steel to shapes indicated.
7. Solder metal items at corners.

B. Flexible Flashing: Where flashing is fully concealed in masonry, use one of the following unless otherwise indicated:

C. Preformed Corners, End Dams, and Seaming Shapes for Flashing: Flashing manufacturer's standard products or products recommended by flashing manufacturer for waterproofing openings.

D. Solder and Sealants for Sheet Metal Flashings: As specified in Section 076200 "Sheet Metal Flashing and Trim."

1. Solder for Stainless Steel: ASTM B32, Grade Sn60 , with acid flux of type recommended by stainless steel sheet manufacturer.
2. Elastomeric Sealant: ASTM C920, chemically curing urethane sealant; of type, grade, class, and use classifications required to seal joints in sheet metal flashing and remain watertight.

E. Adhesives, Primers, and Seam Tapes for Flashings: Flashing manufacturer's standard products or products recommended by flashing manufacturer for bonding flashing sheets to each other and to substrates.

F. Termination Bars for Flexible Flashing:

1. Material: Stainless steel .
2. Size: 1/8 by 1 inch .

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2.10 ACCESSORIES

A. Compressible Filler: Premolded filler strips complying with ASTM D1056, Grade 2A1; compressible up to 35 percent; of width and thickness indicated; formulated from urethane .

B. Preformed Control-Joint Gaskets: Made from styrene-butadiene-rubber compound, complying with ASTM D2000, Designation M2AA-805 and designed to fit standard sash block and to maintain lateral stability in masonry wall; size and configuration as indicated.

C. Bond-Breaker Strips: Asphalt-saturated felt complying with ASTM D226/D226M, Type I (No. 15 asphalt felt).

D. Masonry Cell Fill: Lightweight-Aggregate Fill: ASTM C331/C331M .

2.11 MORTAR AND GROUT MIXES

A. General: Do not use admixtures, including pigments, air-entraining agents, accelerators, retarders, water-repellent agents, antifreeze compounds, or other admixtures unless otherwise indicated.

1. Do not use calcium chloride in mortar or grout.
2. Use portland cement-lime mortar unless otherwise indicated.
3. For exterior masonry, use portland cement-lime mortar.
4. For reinforced masonry, use portland cement-lime mortar.
5. Add cold-weather admixture (if used) at same rate for all mortar that will be exposed to view, regardless of weather conditions, to ensure that mortar color is consistent.

B. Preblended, Dry Mortar Mix: Furnish dry mortar ingredients in form of a preblended mix. Measure quantities by weight to ensure accurate proportions, and thoroughly blend ingredients before delivering to Project site.

C. Mortar for Unit Masonry: Comply with ASTM C270, Proportion Specification. Provide the following types of mortar for applications stated unless another type is indicated or needed to provide required compressive strength of masonry .

1. For masonry below grade or in contact with earth, use Type M.
2. For reinforced masonry, use Type S .
3. For mortar parge coats, use Type S .
4. For exterior, above-grade, load-bearing, nonload-bearing walls, and parapet walls; for interior load-bearing walls; for interior nonload-bearing partitions; and for other applications where another type is not indicated, use Type N.
5. For interior nonload-bearing partitions, Type O may be used instead of Type N.

D. Pigmented Mortar: Use colored cement product or select and proportion pigments with other ingredients to produce color required. Do not add pigments to colored mortar cement .

1. Pigments do not exceed 10 percent of portland cement by weight.
2. Pigments do not exceed 5 percent of mortar cement by weight.
3. As selected by Architect per manufacturer’s full range catalog.

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E. Colored-Aggregate Mortar: Produce required mortar color by using colored aggregates and natural color or white cement as necessary to produce required mortar color.

1. As selected by Architect per manufacturer's full range catalog.

F. Grout for Unit Masonry: Comply with ASTM C476.

1. Use grout of type indicated or, if not otherwise indicated, of type (fine or coarse) that will comply with TMS 402/602 for dimensions of grout spaces and pour height.
2. Proportion grout in accordance with ASTM C476, paragraph 4.2.1.2 for specified 28-day compressive strength indicated, but not less than 2000 psi .
3. Provide grout with a slump of 8 to 11 inches as measured in accordance with ASTM C143/C143M.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

1. For the record, prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.
2. Verify that foundations are within tolerances specified.
3. Verify that reinforcing dowels are properly placed.
4. Verify that substrates are free of substances that impair mortar bond.

B. Before installation, examine rough-in and built-in construction for piping systems to verify actual locations of piping connections.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

A. Thickness: Build cavity and composite walls and other masonry construction to full thickness shown. Build single-wythe walls to actual widths of masonry units, using units of widths indicated.

B. Build chases and recesses to accommodate items specified in this and other Sections.

C. Leave openings for equipment to be installed before completing masonry. After installing equipment, complete masonry to match construction immediately adjacent to opening.

D. Use full-size units without cutting if possible. If cutting is required to provide a continuous pattern or to fit adjoining construction, cut units with motor-driven saws; provide clean, sharp, unchipped edges. Allow units to dry before laying unless wetting of units is specified. Install cut units with cut surfaces and, where possible, cut edges concealed.

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E. Select and arrange units for exposed unit masonry to produce a uniform blend of colors and textures. Mix units from several pallets or cubes as they are placed.

F. Matching Existing Masonry: Match coursing, bonding, color, and texture of existing masonry.

G. Wetting of Brick: Wet brick before laying if initial rate of absorption exceeds 30 g/30 sq. in. per minute when tested in accordance with ASTM C67/C67M. Allow units to absorb water so they are damp but not wet at time of laying.

3.3 TOLERANCES

A. Dimensions and Locations of Elements:

1. For dimensions in cross section or elevation, do not vary by more than plus 1/2 inch or minus 1/4 inch.
2. For location of elements in plan, do not vary from that indicated by more than plus or minus 1/2 inch.
3. For location of elements in elevation, do not vary from that indicated by more than plus or minus 1/4 inch in a story height or 1/2 inch total.

B. Lines and Levels:

1. For bed joints and top surfaces of bearing walls, do not vary from level by more than 1/4 inch in 10 ft., or 1/2-inch maximum.
2. For conspicuous horizontal lines, such as lintels, sills, parapets, and reveals, do not vary from level by more than 1/8 inch in 10 ft., 1/4 inch in 20 ft., or 1/2-inch maximum.
3. For vertical lines and surfaces, do not vary from plumb by more than 1/4 inch in 10 ft., 3/8 inch in 20 ft., or 1/2-inch maximum.
4. For conspicuous vertical lines, such as external corners, door jambs, reveals, and expansion and control joints, do not vary from plumb by more than 1/8 inch in 10 ft., 1/4 inch in 20 ft., or 1/2-inch maximum.
5. For lines and surfaces, do not vary from straight by more than 1/4 inch in 10 ft., 3/8 inch in 20 ft., or 1/2-inch maximum.
6. For vertical alignment of exposed head joints, do not vary from plumb by more than 1/4 inch in 10 ft., or 1/2-inch maximum.
7. For faces of adjacent exposed masonry units, do not vary from flush alignment by more than 1/16 inch except due to warpage of masonry units within tolerances specified for warpage of units.

C. Joints:

1. For bed joints, do not vary from thickness indicated by more than plus or minus 1/8 inch, with a maximum thickness limited to 1/2 inch.
2. For exposed bed joints, do not vary from bed-joint thickness of adjacent courses by more than 1/8 inch.
3. For head and collar joints, do not vary from thickness indicated by more than plus 3/8 inch or minus 1/4 inch.
4. For exposed head joints, do not vary from thickness indicated by more than plus or minus 1/8 inch. Do not vary from adjacent bed-joint and head-joint thicknesses by more than 1/8 inch.

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5. For exposed bed joints and head joints of stacked bond, do not vary from a straight line by more than 1/16 inch from one masonry unit to the next.

3.4 INSTALLATION OF MASONRY WALLS

A. Lay out walls in advance for accurate spacing of surface bond patterns with uniform joint thicknesses and for accurate location of openings, movement-type joints, returns, and offsets. Avoid using less-than-half-size units, particularly at corners, jambs, and, where possible, at other locations.

B. Bond Pattern for Exposed Masonry: Unless otherwise indicated, lay exposed masonry in bond pattern indicated on Drawings ; do not use units with less-than-nominal 4-inch horizontal face dimensions at corners or jambs.

C. Lay concealed masonry with all units in a wythe in running bond or bonded by lapping not less than 4 inches . Bond and interlock each course of each wythe at corners. Do not use units with less-than-nominal 4-inch horizontal face dimensions at corners or jambs.

D. Stopping and Resuming Work: Stop work by stepping back units in each course from those in course below; do not tooth. When resuming work, clean masonry surfaces that are to receive mortar, remove loose masonry units and mortar, and wet brick if required before laying fresh masonry.

E. Built-In Work: As construction progresses, build in items specified in this and other Sections. Fill in solidly with masonry around built-in items.

F. Fill space between steel frames and masonry solidly with mortar unless otherwise indicated.

G. Where built-in items are to be embedded in cores of hollow masonry units, place a layer of metal lath, wire mesh, or plastic mesh in the joint below, and rod mortar or grout into core.

H. Fill cores in hollow CMUs with grout 24 inches under bearing plates, beams, lintels, posts, and similar items unless otherwise indicated.

I. Rigid, Cellular Thermal Insulation, CMUs: Install molded-polystyrene insulation units into masonry unit cells before laying units.

J. Build nonload-bearing interior partitions full height of story to underside of solid floor or roof structure above unless otherwise indicated.

1. Install compressible filler in joint between top of partition and underside of structure above.
2. Fasten partition top anchors to structure above and build into top of partition. Grout cells of hollow CMUs solidly around plastic tubes of anchors, and push tubes down into grout to provide 1/2-inch clearance between end of anchor rod and end of tube. Space anchors 48 inches o.c. unless otherwise indicated.
3. Wedge nonload-bearing partitions against structure above with small pieces of tile, slate, or metal. Fill joint with mortar after dead-load deflection of structure above approaches final position.
4. At fire-rated partitions, treat joint between top of partition and underside of structure

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above to comply with Section 078443 "Joint Firestopping."

3.5 INSTALLATION OF MORTAR BEDDING AND JOINTING

A. General: Lay masonry units as follows:

1. Bed face shells in mortar and make head joints of depth equal to bed joints.
2. Bed webs in mortar in all courses of piers, columns, and pilasters.
3. Bed webs in mortar in grouted masonry, including starting course on footings.
4. Fully bed entire units, including areas under cells, at starting course on footings where cells are not grouted.
5. Fully bed units and fill cells with mortar at anchors and ties as needed to fully embed anchors and ties in mortar.

B. Solid Masonry Units: Lay units with completely filled bed and head joints; butter ends with sufficient mortar to fill head joints and shove into place. Do not deeply furrow bed joints or slush head joints.

C. Trim Units: Set stone trim units in full bed of mortar with full vertical joints. Fill dowel, anchor, and similar holes.

1. Clean soiled surfaces with fiber brush and soap powder and rinse thoroughly with clear water.
2. Allow cleaned surfaces to dry before setting.
3. Wet joint surfaces thoroughly before applying mortar.
4. Rake out mortar joints for pointing with sealant.

D. Rake out mortar joints at prefaced CMUs to a uniform depth of 1/4 inch and point with epoxy mortar to comply with epoxy-mortar manufacturer's written instructions.

E. Tool exposed joints slightly concave when thumbprint hard, using a jointer larger than joint thickness unless otherwise indicated.

1. For glazed masonry units, use a nonmetallic jointer 3/4 inch or more in width.

F. Cut joints flush for masonry walls to receive plaster or other direct-applied finishes (other than paint) unless otherwise indicated.

G. Cut joints flush where indicated to receive waterproofing unless otherwise indicated.

3.6 INSTALLATION OF MASONRY-JOINT REINFORCEMENT

A. General: Install entire length of longitudinal side rods in mortar with a minimum cover of 5/8 inch on exterior side of walls, 1/2 inch elsewhere. Lap reinforcement a minimum of 6 inches.

1. Space reinforcement not more than 16 inches o.c.
2. Space reinforcement not more than 8 inches o.c. in foundation walls and parapet walls.
3. Provide reinforcement not more than 8 inches above and below wall openings and extending 12 inches beyond openings in addition to continuous reinforcement .

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B. Interrupt joint reinforcement at control and expansion joints unless otherwise indicated.

C. Provide continuity at wall intersections by using prefabricated T-shaped units.

D. Provide continuity at corners by using prefabricated L-shaped units.

E. Cut and bend reinforcing units as directed by manufacturer for continuity at corners, returns, offsets, column fireproofing, pipe enclosures, and other special conditions.

3.7 ANCHORING OF MASONRY TO STRUCTURAL STEEL AND CONCRETE

A. Anchor masonry to structural steel and concrete, where masonry abuts or faces structural steel or concrete, to comply with the following:

1. Provide an open space not less than 1/2 inch wide between masonry and structural steel or concrete unless otherwise indicated. Keep open space free of mortar and other rigid materials.
2. Anchor masonry with anchors embedded in masonry joints and attached to structure.
3. Space anchors as indicated, but not more than 24 inches o.c. vertically and 36 inches o.c. horizontally.

3.8 INSTALLATION OF CONTROL AND EXPANSION JOINTS

A. General: Install control- and expansion-joint materials in unit masonry as masonry progresses. Do not allow materials to span control and expansion joints without provision to allow for in-plane wall or partition movement.

B. Indicate locations of joints on Drawings. Form control joints in concrete masonry as follows:

1. Fit bond-breaker strips into hollow contour in ends of CMUs on one side of control joint. Fill resultant core with grout, and rake out joints in exposed faces for application of sealant.
2. Install preformed control-joint gaskets designed to fit standard sash block.
3. Install interlocking units designed for control joints. Install bond-breaker strips at joint. Keep head joints free and clear of mortar, or rake out joint for application of sealant.
4. Install temporary foam-plastic filler in head joints, and remove filler when unit masonry is complete for application of sealant.

C. Provide horizontal, pressure-relieving joints by either leaving an airspace or inserting a compressible filler of width required for installing sealant and backer rod specified in Section 079200 "Joint Sealants," but not less than 3/8 inch .

1. Locate horizontal, pressure-relieving joints beneath shelf angles supporting masonry.

3.9 INSTALLATION OF LINTELS

A. Provide lintel types where indicated on Drawings and where openings of more than 12 inches for brick-size units and 24 inches for block-size units are indicated without structural steel or

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other supporting lintels.

B. Provide minimum bearing of 8 inches at each jamb unless otherwise indicated.

3.10 INSTALLATION OF EMBEDDED FLASHING

A. General: Install embedded flashing and weep holes in masonry at shelf angles, lintels, ledges, other obstructions to downward flow of water in wall, and where indicated.

B. Install flashing as follows unless otherwise indicated:

1. Prepare masonry surfaces so they are smooth and free from projections that could puncture flashing. Where flashing is within mortar joint, place through-wall flashing on sloping bed of mortar and cover with mortar. Before covering with mortar, seal penetrations in flashing with adhesive, sealant, or tape as recommended by flashing manufacturer .
2. At lintels and shelf angles, extend flashing 6 inches minimum , to edge of next full unit at each end. At heads and sills, extend flashing 6 inches minimum , to edge of next full unit and turn ends up not less than 2 inches to form end dams.
3. Interlock end joints of sawtooth sheet metal flashing by overlapping ribs not less than 1-1/2 inches or as recommended by flashing manufacturer, and seal lap with elastomeric sealant complying with requirements in Section 079200 "Joint Sealants" for application indicated.
4. Install metal drip edges with sawtooth sheet metal flashing by interlocking hemmed edges to form hooked seam. Seal seam with elastomeric sealant complying with requirements in Section 079200 "Joint Sealants" for application indicated.
5. Install metal drip edges beneath flexible flashing at exterior face of wall. Stop flexible flashing 1/2 inch back from outside face of wall, and adhere flexible flashing to top of metal drip edge.
6. Install metal flashing termination beneath flexible flashing at exterior face of wall. Stop flexible flashing 1/2 inch back from outside face of wall, and adhere flexible flashing to top of metal flashing termination.
7. Cut flexible flashing off flush with face of wall after masonry wall construction is completed.

C. Install reglets and nailers for flashing and other related construction where they are indicated to be built into masonry.

3.11 INSTALLATION OF REINFORCED UNIT MASONRY

A. Temporary Formwork and Shores: Construct formwork and shores as needed to support reinforced masonry elements during construction.

1. Construct formwork to provide shape, line, and dimensions of completed masonry as indicated. Make forms sufficiently tight to prevent leakage of mortar and grout. Brace, tie, and support forms to maintain position and shape during construction and curing of reinforced masonry.
2. Do not remove forms and shores until reinforced masonry members have hardened sufficiently to carry their own weight and that of other loads that may be placed on them

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during construction.

B. Placing Reinforcement: Comply with requirements in TMS 402/602.

C. Grouting: Do not place grout until entire height of masonry to be grouted has attained enough strength to resist grout pressure.

1. Comply with requirements in TMS 402/602 for cleanouts and for grout placement, including minimum grout space and maximum pour height.
2. Limit height of vertical grout pours to not more than 60 inches .

3.12 INSTALLATION OF MASONRY CELL FILL

A. Loose-Fill Insulation: Pour into cavities to fill void spaces. Maintain inspection ports to show presence of fill at extremities of each pour area. Close the ports after filling has been confirmed. Limit the fall of fill to one story high, but not more than 20 ft..

B. Lightweight-Aggregate Fill: Pour into cavities to fill void spaces. Maintain inspection ports to show presence of fill at extremities of each pour area. Close the ports after filling has been confirmed. Limit the fall of fill to one story high, but not more than 20 ft..

C. Foamed-in-Place Masonry Cell Fill: Drill holes in mortar bed joints at spacing as indicated in writing by foamed-in-place masonry fill manufacturer, and inject foam to fill masonry cell voids.

3.13 FIELD QUALITY CONTROL

A. Testing Agency: Engage a qualified testing agency to perform tests and inspections. Allow inspectors access to scaffolding and work areas as needed to perform tests and inspections. Retesting of materials that fail to comply with specified requirements will be at Contractor's expense.

B. Inspections: Special inspections in accordance with Level 2 in TMS 402/602.

1. Begin masonry construction only after inspectors have verified proportions of site-prepared mortar.
2. Place grout only after inspectors have verified compliance of grout spaces and of grades, sizes, and locations of reinforcement.
3. Place grout only after inspectors have verified proportions of site-prepared grout.

C. Testing Prior to Construction: One set of tests.

D. Testing Frequency: One set of tests for each 5000 sq. ft. of wall area or portion thereof.

E. Concrete Masonry Units: Test each type of unit provided, in accordance with ASTM C140/C140M for compressive strength.

F. Clay Masonry Units: Test each type of unit provided, in accordance with ASTM C67/C67M for compressive strength.

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G. Mortar Aggregates: Ratio test (Proportion Specification) for each mix provided, in accordance with ASTM C780.

H. Mortar: Test each mix provided in accordance with ASTM C780. Test mortar for mortar air content and compressive strength .

I. Grout: Test each mix provided in accordance with ASTM C1019.

J. Prism Test: For each type of construction provided, in accordance with ASTM C1314 at 28 days.

3.14 PARGING

A. Parge exterior faces of below-grade masonry walls, where indicated, in two uniform coats to a total thickness of 3/4 inch. Dampen wall before applying first coat, and scarify first coat to ensure full bond to subsequent coat.

B. Use a steel-trowel finish to produce a smooth, flat, dense surface with a maximum surface variation of 1/8 inch per foot. Form a wash at top of parging and a cove at bottom.

C. Damp-cure parging for at least 24 hours and protect parging until cured.

3.15 REPAIRING AND POINTING

A. Remove and replace masonry units that are loose, chipped, broken, stained, or otherwise damaged or that do not match adjoining units. Install new units to match adjoining units; install in fresh mortar, pointed to eliminate evidence of replacement.

B. Pointing: During the tooling of joints, enlarge voids and holes, except weep holes, and completely fill with mortar. Point up joints, including corners, openings, and adjacent construction, to provide a neat, uniform appearance. Prepare joints for sealant application, where indicated.

3.16 CLEANING

A. In-Progress Cleaning: Clean unit masonry as work progresses by dry brushing to remove mortar fins and smears before tooling joints.

B. Final Cleaning: After mortar is thoroughly set and cured, clean exposed masonry as follows:

1. Remove large mortar particles by hand with wooden paddles and nonmetallic scrape hoes or chisels.
2. Test cleaning methods on sample wall panel; leave one-half of panel uncleaned for comparison purposes. Obtain Architect's approval of sample cleaning before proceeding with cleaning of masonry.
3. Protect adjacent stone and nonmasonry surfaces from contact with cleaner by covering them with liquid strippable masking agent or polyethylene film and waterproof masking tape.

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4. Wet wall surfaces with water before applying cleaners; remove cleaners promptly by rinsing surfaces thoroughly with clear water.
5. Clean brick by bucket-and-brush hand-cleaning method described in BIA Technical Notes 20.
6. Clean concrete masonry by applicable cleaning methods indicated in TEK 08-04A.
7. Clean masonry with a proprietary acidic masonry cleaner applied in accordance with manufacturer's written instructions.

3.17 MASONRY WASTE DISPOSAL

A. Salvageable Materials: Unless otherwise indicated, excess masonry materials are Contractor's property. At completion of unit masonry work, remove from Project site.

B. Waste Disposal as Fill Material: Dispose of clean masonry waste, including excess or soil-contaminated sand, waste mortar, and broken masonry units, by crushing and mixing with fill material as fill is placed.

1. Crush masonry waste to less than 4 inches in each dimension.
2. Mix masonry waste with at least two parts of specified fill material for each part of masonry waste. Fill material is specified in Section 312000 "Earth Moving."
3. Do not dispose of masonry waste as fill within 18 inches of finished grade.

C. Masonry Waste Recycling: Return broken masonry units not used as fill to manufacturer for recycling.

D. Excess Masonry Waste: Remove excess clean masonry waste that cannot be used as fill, as described above or recycled, and other masonry waste, and legally dispose of off Owner's property.

END OF SECTION 04 20 00

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SECTION 07 41 00
METAL ROOF PANELS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Structural standing seam metal roofing system complete with clips, insulation, perimeter and penetration flashing, closures and sealants:
   1. Over Wood Plank Deck
      a. New 1 layer polyisocyanurate (3")
      b. New ½" Securock or Densdeck Prime.
      c. New Intelliwrap PR (or approved equal) underlayment membrane on gypsum board.
      d. New R-Mer Shield (or approved equal) with clips attached through insulation into the wood deck.

B. Standing seam metal roofing accessories.

C. Gutters and downspouts

D. Snow retention system installed with non-penetrating clamps.

1.2 RELATED SECTIONS

A. Section 06150 – Wood Decking

1.3 REFERENCES

A. ASTM A 240 - Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications.

B. ASTM A 653/A 653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

C. ASTM D 1056 - Standard Specification for Flexible Cellular Materials - Sponge or Expanded Rubber.

D. ASTM D 3575 - Standard Test Methods for Flexible Cellular Materials made from Olefin Polymers.

E. ASTM E 84 - Standard Test for Surface Burning Characteristics of Building Materials.

F. ASTM E 283 - Standard Test Method for Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.

G. ASTM E 331 - Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.

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H. ASTM E 1592 - Standard Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference.

I. ASTM E 1646 - Standard Test Method for Water Penetration of Exterior Metal Roof Panel Systems by Uniform Static Air Pressure Difference.

J. ASTM E 1680 - Standard Test Method for Rate of Air Leakage Through Exterior Metal Roof Panel Systems.

K. ASTM E 2140 - Standard Test Method for Water Penetration of Metal Roof Panel Systems by Static Water Pressure Head.

L. AAMA 501.1 - Standard Test Method for Water Penetration of Windows, Curtain Walls and Doors Using Dynamic Pressure.

M. ASCE 7 - Minimum Design Loads for Buildings and Other Structures.

N. FM 4470 Approval Standard for Class 1 Panel Roofs.

O. FM 4471 - Class 1 Panel Roof; Factory Mutual Research Corporation.

P. UL 263 - Fire Tests of Building Constructions and Materials.

Q. UL 580 - Standard for Tests for Uplift Resistance of Roof Assemblies.

R. UL 790 - Standard Test Methods for Fire Tests of Roof Coverings.

S. UL 1897 - Uplift Test for Roof Covering Systems.

T. ICC-ES AC166 - Test Procedure for Wind Driven Rain Resistance of Metal Roof Coverings.

U. SMACNA - Architectural Sheet Metal Manual.

V. National Coil Coating Association (NCCA)

W. NRCA - The NRCA Roofing and Waterproofing Manual.

1.4 DESIGN / PERFORMANCE REQUIREMENTS

A. Standing Seam Roofing System: Basis of Design - R-Mer Shield by The Garland Company, Inc. (or approved equal)

1. Thermal Expansion and Contraction:

a. Completed metal roofing and flashing system shall be capable of withstanding expansion and contraction of components caused by changes in temperature without buckling, producing excess stress on structure, anchors or fasteners, or reducing performance ability.
b. Design temperature differential shall be not less than 200°F
c. Interface between panel and top rail/clip shall provide for unlimited thermal movement in each direction along the longitudinal direction. The roof panel clips must be completely isolated from the sealant within the panel seam cap.

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d. Location of metal roofing rigid connector shall be at roof ridge unless otherwise approved by the Project Architect. Metal ridge connectors may require design as per job conditions by specified manufacturer.

2. Uniform Wind Load Capacity: Installed roof system shall withstand negative (uplift) design wind loading pressures complying with the following criteria.

   a. Roof Areas:

      1) Design Code: ASCE 7, Method 2 for Components and Cladding.
      2) Safety Factor: 1.67 after any load reduction or material stress increase.
      3) Category III Building with an Importance Factor of 1.
      4) Wind Speed: 126 mph.
      5) Ultimate Pullout Value: 991 pounds per each of the two fasteners holding the panel anchor to the roof decking.
      6) Exposure Category: C.
      7) Design Roof Height: 15 feet.
      8) Minimum Building Width: 21 feet.
      9) Roof Pitch: 1 inches per foot.
      10) Roof Area Design Uplift Pressure:

         a) Zone 1 - Field of roof: 29 psf.
         b) Zone 2 – Ridge and Eave: 32.6 psf.
         c) Zone 2’ – Rakes: 37.8 psf.
         d) Zone 3 – Corners @ Eaves: 41.3 psf.
         e) Zone 3’ – Corners @ Ridge 55.4 psf.

      11) Maximum Clip Spacing Per Roof Zone (must be confirmed by manufacturer’s provided ASCE 7 uplift calculations) (16.75” Panel)

         a) Zone 1 - Field of roof: 5’
         b) Zone 2 – Ridge and Eave: 5’
         c) Zone 2’ – Rakes: 4’11”
         d) Zone 3 – Corners @ Eaves: 4’6”
         e) Zone 3’ – Corners @ Ridge 3’4”

   b. ASTM E 1592: Capacity shall be determined using pleated airbag method in accordance with ASTM E 1592, testing of sheet metal roof panels. Allowable safe working loads shall be determined by dividing the ultimate test load by the safety factor specified above.

3. Uniform Positive Load Capacity.

   a. Installed roof system shall be capable of resisting the following positive uniform roof loads: Roof Live Load of 20 psf.
   b. Dead Load: Loading of the roof structure, due to tear off of existing, and/or installation of new roofing materials shall not exceed the present loading due to weight of the existing roofing system.
   c. Installed roof system shall carry positive uniform design loads with a maximum system deflection of L/180 as measured at the rib (web) of the panel.

4. Snow Retention Design

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a. Ground Snow Load: 48 psf
b. Balanced Uniform Roof Snow Load: 36.59 psf
c. Minimum Unbalanced Surcharge Load: 10.37 psf
d. Unbalanced Width: 16.39 feet
e. Drift from Higher Roof: No
f. Total Average Snow Load: 44.68 psf
g. Thermal Factor: 1.1
h. Safety Factor: 2
i. Equivalent Uniform Design Snow Load: 44.68 psf vertical
j. Sliding Force: 3.7 psf along slope
k. Tributary Vector Force: 109 lbs per panel
l. Snow Guard Requirement: 1 row minimum at all roof areas
m. ¼" cold finish bolts per seam: 1

5. Underwriters' Laboratories, Inc., (UL):

   a. Underwriters' Laboratories, Inc., (UL) fire resistance P ratings for roof assemblies: If applicable, panel system shall be approved for use in an appropriate Construction Assembly, as defined by UL 263.
   b. Underwriters' Laboratories, Inc., (UL) Class A fire rating per UL 790.

6. ASTM E 1680: Static pressure air infiltration (roof panels):
   a. Pressure Leakage Rate:
      1) 1.57 PSF 0.034 cfm/sq.ft.
      2) 6.24 PSF 0.048 cfm/sq.ft.
      3) 12.0 PSF 0.051 cfm/sq.ft.
      4) 20.0 PSF 0.010 cfm/sq.ft.

7. ASTM E 1646: Static pressure water infiltration (roof panels):

   a. Pressure Result:

      1) 5 Gal. /Hr. per S.F. and Static No Leakage
      2) Pressure of 12.0 Psf for 15 minutes

8. Capacities for gauge, span or loading other than those tested may be determined by interpolation of test results within the range of test data. Extrapolations for conditions outside test range are not acceptable.
9. Submit third party validation of environmental claims, prepared UL Environment, for all metal roof panels containing recycled content and/or bio-based content.

1.5 SUBMITTALS

A. Submit under provisions of Section 01300.

B. Product Data: Submit product data, test reports, and certifications in accordance with quality assurance and performance requirements specified herein.

C. Design Loads: Submit manufacturer's minimum design load calculations according to ASCE 7, Method 2 for Components and Cladding. In no case shall the design loads be taken to be less than those specified herein.

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D. Shop Drawings: Prepared specifically for this project; showing dimensions of metal roofing and accessories, fastening details and connections and interface with other products.

E. Selection Samples: For each finish product specified, two complete sets of samples representing manufacturer's full range of available colors and textures.

F. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and textures.

G. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

H. Closeout Submittals:

1. Provide manufacturer's maintenance instructions that include recommendations for periodic checking and maintenance of installed roof system.
2. Provide executed copy of manufacturer's warranty.

1.6 QUALITY ASSURANCE

A. Manufacturer Qualifications: Manufacturer shall have in place a documented, standardized quality control program such as ISO-9001 approval.

B. Installer Qualifications: Certified and approved installer of the metal roofing panel manufacturer.

C. If required, fabricator/installer shall submit work experience and evidence of adequate financial Responsibility. The Owner’s representative reserves the right to inspect fabrication facilities in determining qualifications.

D. Source Limitations: Obtain all components of the standing seam roof, low-slope membrane roof, and soffit panel system from a single manufacturer. Secondary products that are required shall be recommended and approved in writing by the Manufacturer

1. Upon request of the Architect, submit Manufacturer’s written approval of secondary components in list form, signed by an authorized agent of the Manufacturer.
2. Manufacturer shall have direct authority and control over all fabrication of steel components as well as the raw materials used in their fabrication.

E. Engage the Manufacturer’s Field Representative to conduct required periodic inspections of work in progress as described herein and shall furnish written documentation of all such inspections.

F. Manufacturer shall provide the Owner project with a written statement that they will provide a site inspection every 3 days per week that confirms that the project is being constructed as specified, by an experienced, full-time employee of the company.

G. Alternate Manufacturers: The following manufacturer criteria must be submitted. Alternate systems will not be considered for approval unless each of these items has been submitted for review.

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1. Submit each item listed in article 1.4 (A through E) for evaluation of the proposed system.
2. Tests shall have been made for identical systems within the ranges of specified performance criteria.
3. Empirical calculations for wall performance shall only be acceptable for positive loads.
4. A list of a minimum of five (5) projects where the proposed alternate material was used under similar conditions. The reference list shall include date of project, size of project, project address, and telephone number of architect/owner contact.
5. A written statement from the manufacturer stating that they will provide the building owner and architect of record with a daily site inspection for a minimum of one (1) hour per day, 3 days per week minimum, by an experienced, full time employee of the company.
6. A written statement from a corporate officer of the manufacturing company stating that he or she has reviewed the specifications and confirms that the proposed system meets or exceeds all performance requirements listed as well as meets the panel size, gauge, weight, clip design, sealant design, uplift pressures and height of the vertical seam.
7. A copy of manufacturer's warranty.
8. Proof that the manufacturer has been in business for a minimum number of years equal to the warranty period required for this project.

1.7 PRE-INSTALLATION CONFERENCE

A. Convene a pre-roofing conference approximately two weeks before scheduled commencement of roofing system installation and associated work.

B. Require attendance of installers of deck or substrate construction to receive roofing, installers of rooftop units and other work in and around roofing which must precede or follow roofing work including mechanical work, Architect, Owner, roofing system manufacturer's representative.

C. Objectives include:

1. Review foreseeable methods and procedures related to roofing work, including set up and mobilization areas for stored material and work area.
2. Tour representative areas of roofing substrates, inspect and discuss condition of substrate, roof drains, curbs, penetrations and other preparatory work.
3. Review structural loading limitations of deck and inspect deck for loss of flatness and for required attachment.
4. Review roofing system requirements, Drawings, Specifications and other Contract Documents.
5. Review and finalize schedule related to roofing work and verify availability of materials, installer's personnel, equipment and facilities needed to make progress and avoid delays.
6. Review required inspection, testing, certifying procedures.
7. Review weather and forecasted weather conditions and procedures for coping with unfavorable conditions, including possibility of temporary roofing.

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8. Record conference including decisions and agreements reached. Furnish a copy of records to each party attending.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

B. Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

1. Store materials above ground, on skids.
2. Protect material with waterproof covering and allow sufficient ventilation to prevent condensation buildup or moisture entrapment on the materials.
3. Store insulation materials in a manner to prevent moisture or UV damage during storage. Any insulation that has been exposed to moisture shall be removed from the project site.

1.9 PROJECT CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.10 WARRANTY

A. Warranty:

1. 30-year, no dollar limit, warranty.
2. Provide installers 5-year warranty covering roofing system installation and water-tightness.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Basis of Design Manufacturer: Garland Company, Inc. (The); http://www.garlandco.com

B. Alternative Manufacturers: Approved Equal. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 STANDING SEAM METAL ROOFING

A. Metal Roof Panels: R-Mer Shield

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1. Width of Standing T-Seam Panel: 1 inch T-seam.
    a. 16.75 inches.
2. Standing Seam: 2-1/16 inch tall mechanically seamed with factory installed hot melt sealant in-seam cap. Panel/Cap is configured with a total of 4 layers of metal surrounding anchor clip and top rail.
3. Panel Profile: Provided with minimum 1-1/2 inches wide elevated mesa's every 2 inches on center continuous throughout panel. Stiffening ribs shall also be located in flat of panel next to the standing seam legs. Panel profile shall be symmetric in shape.
    a. Symmetrical design with snap on seam cap configuration such that individual panels may be removable for replacement without removing adjacent panels.
4. Slope: Open Purlins or Solid Substrate down to 1/4:12 minimum.
5. Panel material:
    a. Steel, G-90 Galvanized, smooth as per ASTM A 653, 24-gauge thickness.
6. Flashing and flat stock material: Fabricate in profiles indicated on Drawings of same material, thickness, and finish as roof system, unless indicated otherwise.
7. Accessory Components:
    a. Anchor Clips:
        1) Concealed Standard Anchor Clips: Clips must be extruded aluminum ONE (1) piece clip with projecting legs for additional panel alignment and provision for unlimited thermal movement in each direction along the longitudinal dimension.
        2) Top Rail shall be snap-in-place extruded aluminum retainer. The top rail shall be used as a 6 inch length aligned with each panel clip, or in continuous lengths spanning one or more wind uplift zones, as required by the manufacturer's testing data and project engineering calculations.
            a) Two piece clips are unacceptable.
            b) Sealant applied in panel cap must be isolated from clip to ensure that no sealant damage occurs from the movement of the panel during expansion and contraction.
            c) Clip must maintain a clearance of a minimum of 1/2 inch between panel and substrate for proper ventilation to help prevent condensation on underside of panel and eliminate the contact of panel fastener head to panel.
    b. Gable anchor clips for:
        1) Standing Seam style.
            a) Extruded aluminum.
    c. Fasteners:
        1) Concealed fasteners: Corrosion resistant steel fasteners (zinc plated, stainless steel or equal) designed to meet structural loading requirements. Length shall not exceed thickness of roof deck in exposed application.
        2) Exposed fasteners: Series 410 stainless steel fasteners or 1/8 inch diameter stainless steel waterproof rivets. All exposed fasteners shall be factory painted to match the color of the standing seam panels.
    d. Closures: Factory precut closed cell foam meeting ASTM D 1056 or ASTM D

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3575, enclosed in metal channel matching panels when used at hip, ridge, rake, and jamb.

e. Provide all miscellaneous accessories for complete installation.

2.3 STANDING SEAM METAL ROOFING ACCESSORIES

A. Underlayment:

1. 25 mil minimum, high temperature, self-adhesive membrane, vapor permeable and self-sealing, installed in accordance with manufacturer's recommendations.

a. Intelliwrap PR by Imetco, or approved equal.

B. Insulation:

1. Type: Rigid Polyisocyanurate Roof Insulation, ASTM C1289

a. Qualities: Rigid, closed cell polyisocyanurate foam core bonded to fiber reinforced facers
b. Minimum Thickness: 3” (supplied in 1 layer, installed with joints staggered)

2. Cover Board: Gypsum roof cover board (Securock or DensDeck Prime)
a. Qualities: Gypsum composition board with primed surface
b. Minimum Thickness: .5”

C. Fasteners: Corrosion resistant screw fasteners as recommended by the roof system manufacturer.

1. Concealor #14-13 DP1, for attachment of panel clips.
2. For temporary insulation securement, provide Factory Mutual Tested and Approved with three (3) inch coated disc for 1-90 rating, length required to penetrate metal deck one (1) inch.

D. Sealant:

1. Concealed Applications: Non-Curing Butyl Sealant - Schnee-Morehead, Inc. SM5430 Acryl-R, or equal.
2. Exposed Applications: UV Resistant Tripolymer Sealant - Geocel Corporation, 2300 Tripolymer Sealant, or equal.

2.4 METAL ROOFING ACCESSORIES

A. R-Mer SS Sheet Stock: High gloss, factory painted with fluorocarbon finish to match pre-formed panels (or approved equal).

1. Material and Thickness:

a. 24-gauge G90 galvanized steel.

B. S-5! Snow Retention System: Compatible with Garland's R-Mer Shield metal panel systems (or approved equal).

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1. Roof attachment clamps: Provide aluminum standing steam roof clamp. Carbon steel or plastic parts are not acceptable. No fastener penetrations of the roof will be permitted. Clamp to attach to the standing seam will have two stainless steel set screws (3/8" minimum diameter) having rounded point. One clamp shall be installed per standing seam for each row.
2. Cross member: Extrusion with receptacle in face to provide for insert of color strip. Color strip is to be the same pre-finished material and originate from the same supplier as the roof panels. Cross member is to be continuous and include splice connectors to join adjacent sections, ensuring alignment and structural continuity. Cross member is attached to clamps using 3/8" diameter stainless steel bolts.
3. Snow/ Ice Clips: "Snow Clips" are to be aluminum or stainless steel, with rubber "foot". Clip to attach to cross member and rest on panel flat, between panel seams to retard movement of snow/ice beneath cross member. Use one clip per panel.

C. Gutters

1. Gutter material: .050 aluminum painted to match roof panel.
2. Gutters are to be single piece lengths fabricated as required to meet the drainage capacity of the roof system.
3. Gutter brackets are to be a minimum of 3/16" x 1" aluminum.
4. Gutters are to be supported by brackets spaced 36" on center minimum. Gutters shall be further supported by spacers every 36" on center and spaced alternately with brackets.

D. Fascia

1. Fascia components shall be aluminum, in thickness of .050" nom, painted finish to match roof panels.

2.5 FINISH ON SURFACES

A. Exposed surfaces for coated panels:

1. Two-coat, coil-applied, baked-on full-strength (70% resin) fluorocarbon coating system (polyvinylidene fluoride, PVF2), applied by manufacturer's approved applicator.
2. Coating system shall provide nominal 1.0 mil dry film thickness, consisting of primer and color coat.
3. Color shall be selected from manufacturer's standard color selection.

B. Unexposed surfaces for coated panels shall be baked-on polyester coating with .20 - .30 dry film thickness (TDF).

C. Exposed and unexposed surfaces for uncoated panels shall be as shipped from the mill.

PART 3 EXECUTION

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3.1 EXAMINATION

A. Examine surfaces to receive metal roofing. Notify the Architect/Engineer in writing of any defective conditions encountered. Starting of work shall constitute acceptance of such conditions.

B. Structural Deck Substrate:

1. Inspect roof deck to verify deck is clean and smooth, free of depressions, waves, or projections, and properly sloped.
2. Verify deck is dry and joints are solidly supported and fastened.
3. Verify wood nailers are installed and correctly located. Do not use pressure-treated wood containing salt-based preservatives or materials corrosive to steel.

C. Verify roof openings, curbs, pipes, sleeves, ducts, or vents through roof are solidly set, reglets are in place, and nailing strips located.

D. Verify that fasteners into exposed plank wood deck are sized appropriately. Fastener length must be selected to meet minimum embedment requirements for pull-out resistance while not penetrating through deck into interior space.

E. Correct defective conditions before beginning work.

3.2 INSTALLATION – METAL ROOF PANELS

A. Install in conformance with the NRCA Roofing and Waterproofing Manual and Manufacturers installation requirements.

B. Manufacturer to provide panels specific to the project. Fabrication of the panels by the installing contractor is prohibited.

C. Establish straight side and crosswise benchmarks.

D. Use proper size and length fasteners for strength requirements. Approximately 5/16” is allowable for maximum fastener head size beneath the panel.

E. Rectangular roofs shall be checked for square and straightness. Gable ends may not be straight; set a true line for the gable clips and flashing with a stringline.

F. Measure the roof lengthwise to confirm panel lengths, overhangs, coverage of flashings at eaves and ridges and verify clearances for thermal movement.

G. Form panel shape as indicated on Drawings, accurate in size, square, and free from distortion or defects.

H. Install thermal insulation and cover board over prepared substrate (where indicated on drawings). Secure insulation with screws and plates to secure in place until panels are installed and providing permanent attachment. Ensure proper sizing for all fasteners with 1” penetration into wood deck. Stagger all joints.

I. Install underlayment and eave protection sheet underlayment as recommended by the

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Manufacturer.

1. Starting at low point, position membrane into place and peel back release liner. Press membrane to substrate surface to activate adhesive backing. Roll surface of sheet to fully engage adhesive.
2. Install subsequent rolls shingle fashion, rolling each sheet to promote adhesion. Particular attention is required at laps to ensure complete seal. Overlap end laps by 6" minimum, overlap side laps 3" minimum.
3. Ensure that all installed insulation is covered by the end of the day. No boards should be left exposed to weather overnight.

J. Install all panels continuous from ridge to eave. Transverse seams are not permitted.

K. Panel lengths that exceed maximum shipping lengths shall be field rolled on equipment owned by the panel manufacturer. Seam sealant must be factory applied.

L. Exposed fasteners, screws and/or roof mastic are unacceptable and will be rejected. System configuration only allows for exposed fasteners at panel overlap, if required, and at trim details in accordance with the Manufacturer's requirements.

M. Attach the panel clips to the roof deck using minimum 2 fasteners per clip. Install with additional fasteners when indicated by roof system manufacturer's wind uplift design. Clip spacing shall be prescribed by roof system manufacturer's wind calculations and approved shop drawings.

N. Installation of Roof Panels: Roof panels can be installed starting from either end and working towards the opposite end. Due to the symmetrical design of the specified panel system, it is also acceptable to start from the middle of the roof and work toward each end.
1. Lay roof panel in place on roof deck, position clips according to manufacturer's clip spacing diagram in shop drawings, clamp clip to panel leg, place shims beneath clip as needed over uneven deck surfaces.
2. Set adjacent panel into position with panel leg engaged into each clip. Snap on top rail over each clip, centering 6" top rail over 4" clip.
3. Typical fixed ridge installation: A #10-16 DP3 x 5/8" fastener shall be secured through the anchor reveal of the panel leg and extend into the arms of the panel clip located at the ridge of the system. This is done at each arm of the clip along the ridge. Refer to manufacturer's shop drawings for increased requirements in size and/or number of fasteners.
    a. Capture all drilling debris with a rag or cloth placed on the panels during the drilling to protect the paint finish.
4. Seam caps are shipped with two rows of factory applied hot melt sealant located inside the caps. To install the caps, hook one side of the cap over the panel edge and rotate over the opposite panel leg. For ease of installation, start at one end of the panel and work toward the opposite end.
5. A hand crimping tool is used to crimp the cap around the top of two adjacent panels.
6. The caps shall then be permanently seamed with manufacturer's mechanical seamer.

O. Anchorage shall allow for temperature expansion/contraction movement without stress or elongation of panels, clips, or anchors. Attach clips to structural substrate using fasteners of

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size and spacing as determined by manufacturer's design analysis to resist specified uplift and thermal movement forces.

P. Where not otherwise indicated conform to SMACNA details including flashings and trim. Coordinate flashing and sheet metal work to form weathertight conditions at roof terminations.

Q. Install sealants where indicated to clean dry surfaces only without skips or voids..

R. Install metal edge treatment in accordance with the manufacturer's instructions and the approved shop drawings. Coordinate installation of metal roof panels with metal wall panels, gutter, and all accessory components. Roof and wall system manufacturer’s shop drawings shall incorporate installation details for all components of new roof and wall system.

S. Install metal roofing accessories in accordance with the manufacturer's instructions and the approved shop drawings.

3.3 INSTALLATION – SNOW RETENTION

A. Layout: Carefully lay out desired assembly locations true-to-line prior to installing clamps. Clamps shall avoid panel attachment clips.

B. Clamp Installation: Assemble set screws to clamp and clamp to seam following all manufacturers printed instructions. Both set screws are to be at the same side of clamp. When application relies upon tested load-to-failure values, manufacturer’s minimum recommended set screw tension shall be randomly verified using calibrated torque wrench per manufacturer’s instructions.

C. System Installation: Install snow retention assemblies straight and true-to-line. Secure all color strip material to ColorGard per manufacturer’s instructions. Join adjacent sections with splice pieces provided. Do not cantilever crossmember more than 6” past the last clamp in an assembly.

3.4 CLEANING AND PROTECTION

A. Protect installed products until completion of project.

B. Remove protective film (if applicable) from exposed surfaces of metal panels and/or trim components promptly upon installation. Strip with care to avoid damaging finishes. Clean exposed surfaces of roofing and accessories after completion of installation. Leave in clean condition at date of substantial completion.

C. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION 07 41 00

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SECTION 09 67 23
RESINOUS FLOORING

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes labor, products, equipment and services necessary for resinous flooring Work in accordance with the Contract Drawings covering the following components:
   1. Primer: Sikafloor® 161 (or approved equal).
   2. 1st Body Coat: Sikafloor® 264 w/ Broadcast Decorative Flakes to Rejection (or approved equal).
   3. Top Coat: Sikafloor® 217 (or approved equal).
   4. Optional Top Coat: Sikafloor® 315N (or approved equal).

1.2 RELATED SECTIONS

A. Section 03 30 00 Cast-in-Place Concrete.

1.3 REFERENCES

A. ASTM C579, Standard Test Methods for Compressive Strength of Chemical-Resistant Mortars, Grouts, Monolithic Surfacings, and Polymer Concretes.
B. ASTM D2240, Standard Test Method for Rubber Property—Durometer Hardness.
C. ASTM D2369, Standard Test Method for Volatile Content of Coatings.
D. ASTM D4060, Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser.
E. ASTM D4541, Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers.
F. For additional standards please refer to Product Data Sheets.

1.4 SUBMITTALS

A. Comply with Section 01 33 00 – Submittal Procedures.
B. Product Data: For each type of product indicated.
C. Installer Certificates for Qualification: Signed by manufacturer stating that installers comply with specified requirements.
D. Material Certificates: For each resinous flooring component, from manufacturer.
E. Maintenance Data: For maintenance manuals.
F. Samples: Submit two 6” X 6” samples of each resinous flooring system applied to a rigid backing. Provide sample which is a true representation of proposed field applied finish. Provide sample color and texture for approval from Owner in writing or approved by General Contractor prior to installation.
G. Product Schedule: For resinous flooring.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications:
   1. Basis of Design Manufacturer: Sika Corporation, 201 Polito Drive, Lyndhurst, NJ 07071 – Dan Alves. 609.500.0260 – alves.dan@us.sika.com

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2. Alternative Manufacturers: Approved Equal. No request for substitution shall be considered that would change the generic type of system specified. Equivalent materials of other manufacturers may be substituted only on approval of the Architect or Engineer. Requests for substitution will be considered only if submitted 10 days prior to bid date. Requests shall include the respective manufacturer's technical literature for each product giving the name, generic type, descriptive information, recommended dry film thickness (DFT), Material Safety Data Sheet (MSDS), and certified test reports showing results to equal performance criteria of products specified herein.

B. Applicator Qualifications:
   1. Pre-Qualification: Each bidder for this project shall be pre-qualified and approved in writing by the material manufacturer.
   2. Applicator Experience: Each bidder must have a minimum 5 years experience in the application of the type of system specified. Contractor shall submit a list of five projects of similar size, scope and complexity.

C. Mock-Up:
   1. Construct one 100 sq.ft. (10 sq.m.) mock-up of each type and color of resinous flooring in location acceptable to Architect/Engineer to demonstrate quality of finished system, complying with manufacturer's instructions.
   2. Arrange for Architect/Engineer's review and acceptance, obtain written acceptance before proceeding with Work.
   3. Upon acceptance, mock-up shall serve as a minimum standard of quality for the balance of the work of this Section. Mock-up shall be left in place for the duration of the work.

D. Pre-application Meeting: Convene a pre-application meeting two (2) weeks before start of application of floor coating. Require attendance of parties directly affecting work of this section, including Contractor, Architect, applicator, and manufacturer's representative. Review surface preparation, priming, application, curing, protection, and coordination with other work.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Delivery:
   1. Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name, manufacturer, batch or lot number, and date of manufacture.
   2. Material should be delivered to job site and checked for completeness and shipping damage prior to job start.

B. Storage:
   1. Store materials in accordance with manufacturer's written instructions.
   2. Keep containers sealed until ready for use. Material should be stored in a dry, enclosed, protected area from the elements.
   3. Do not subject material to excessive heat or freezing.
   4. Shelf life: Established based on manufacturer's written recommendation for each material being used.

C. Handling: Protect materials during handling and application to prevent damage or contamination.

D. Condition materials for use accordingly to manufacturer's written instructions prior to application.

E. Record material lot number and quantity delivered to jobsite/storage.

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1.7 SITE CONDITIONS

A. Do not install the Work of this Section outside of the following environmental ranges with Manufacturers' written acceptance:
   1. Material Temperature: Precondition material for at least 24 hours between 65° to 75°F (18° to 24°C)
   2. Ambient Temperature: Minimum/Maximum 50˚/85˚F (10˚/30˚C)
   3. Substrate Temperature: Minimum/Maximum 50˚/85˚F (10˚/30˚C). Substrate temperature must be at least 5˚F (3˚C) above measured Dew Point.
   4. Mixing and Application attempted at Material, Ambient and/or Substrate Temperature conditions less than 65˚F (18˚C) will result in a decrease in product workability and slower cure rates.
   5. Relative Ambient Humidity: Minimum ambient humidity 30%, maximum ambient humidity 75% (during application and curing)
   6. Measure and confirm Substrate Moisture Content, Ambient Relative Humidity, Ambient and Surface Temperature and Dew Point.

B. Substrate moisture:
   1. Moisture content of concrete substrate must be ≤ 4% by mass as measured with a Tramex® CME/CMExpert type concrete moisture meter.
   2. Additionally, relative humidity tests may be conducted per ASTM F2170 and values must be ≤ 85%.
   3. If moisture content of concrete substrate is > 4% by mass as measured with Tramex® CME/CMExpert type and/or if relative humidity tests per ASTM F2170 exceed values > 85%, consider moisture mitigation systems or moisture tolerant primer.

C. Utilities, including electric, water, HVAC and permanent lighting to be supplied by General Contractor

D. Maintain constant ambient room temperature of plus or minus 15ºF (plus or minus 7ºC) with a minimum temperature of 50ºF (10ºC) and maximum temperature of 85ºF (30ºC). Maintain constant ambient room temperature for 48 hours before, during and after installation, or until cured. Do not apply while ambient and temperatures are rising.

E. Erect suitable barriers and post legible signs at points of entry to prevent traffic and trades from entering the work area during application and cure period of the floor.

F. Protection of finished floor from damage by subsequent trades shall be the responsibility of the General Contractor.

G. Ensure adequate ventilation and air flow.

1.8 WARRANTY

A. Manufacturer must warranty all products for (2) two years from date of install.

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PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturer shall be certified under ISO 9001: 2008 All liquid materials, including primers, resins, curing agents, finish coats, and sealants are manufactured and tested under an ISO 9001:2008 registered quality system.

B. Manufacturers: Subject to compliance with requirements, provide products by:
   1. Sika Corporation, Sika Corporation, Industrial Flooring, 201 Polito Avenue, Lyndhurst, NJ 07071, Phone 201.933.8800, Fax 201.933.6225, www.sikafloorusa.com
   2. Or Approved Equal.

2.2 SYSTEM

A. Resinous flooring system: Sikafloor DecoDur Flake FX is an aesthetic, easy to clean, seamless floor consisting of a clear epoxy binder, broadcast with multi-color vinyl chips and sealed with transparent, or UV stable topcoats. The system is highly customizable with an extensive color palette and variable application thicknesses. Typically applied between 1/16 – 1/8 in (1.5 – 3 mm) thick. System to consist of the following components:
   1. Primer: Sikafloor 161 applied between 8 – 10 mils.
   2. 1st Body Coat: Sikafloor 264 with Broadcast Decorative Flakes to Rejection applied at 12 mils.
   3. Top Coat: Sikafloor 217 applied at 16 mils.
   4. Optional Top Coat: Sikafloor 315N applied between 3 – 3.5 mils.

2.3 MATERIALS

A. Primer: Sikafloor 161 is a two part, epoxy resin for priming and leveling mortars with the following properties:
   1. Pull-off Strength (ASTM D4541): > 400 psi (2.7 MPa) with 100% concrete failure.
   2. Shore D Hardness (ASTM D2240): 76 at 7 days.
   3. Solid Content: ~ 100% (by volume) / ~ 100% (by weight).
   4. VOC Content (ASTM D2369): ≤ 50 g/L.
   5. Permeability (ASTM E96): 9.0 g/m² (24 hours / +75°F).
   6. Water Absorption (ASTM D570): 0.14 g/h - m2.
   7. Viscosity (approximately) of Components A + B: 775 (SP2/100).

B. 1st Body Coat: Sikafloor 264 is a pigmented two part, low viscosity, self-priming, epoxy coating binder in [Refer to Sikafloor color chart] color with the following properties:
   1. Pull-off Strength (ASTM D4541): > 400 psi (2.7 MPa) with 100% concrete failure.
   2. Shore D Hardness (ASTM D2240): 76 at 7 days.
   3. Solid Content: ~ 100% (by volume) / ~ 100% (by weight).
   4. VOC Content (ASTM D2369): ≤ 50 g/L.
   5. Compressive Strength (ASTM C579): 7,250 psi (50 N/mm²) at 28 days.
   6. Flexural Strength (ASTM C580): 2,900 psi (20 N/mm²) at 28 days.

C. Broadcast Vinyl Flakes: Decorative Flakes.

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D. 2nd Body Coat and Top Coat: Sikafloor®-217 is a low odor, high solids, epoxy resin primarily designed for high build coatings, decorative quartz and decorative flake applications. Sikafloor®-217 can be used as clear or pigmented coat using Sikafloor® Epoxy Pigment Packs. Sikafloor®-217 is an ideal top coat with an aliphatic urethane when increased chemical and abrasion resistance are required.
   1. Pull-off Strength (ASTM D4541): > 400 psi (2.7 MPa) with 100% concrete failure.
   2. Shore D Hardness (ASTM D2240): 78 - 82 at 7 days.
   3. Solid Content: ~ 100% (by volume) / ~ 100% (by weight).
   4. VOC Content (ASTM D2369): ≤ 50 g/L.
   5. Compressive Strength (ASTM C579): 7,250 psi (50 N/mm²) at 28 days.
   6. Flexural Strength (ASTM C580): 2,900 psi (20 N/mm²) at 28 days.

E. Broadcast Vinyl Flakes: Decorative Flakes.

F. Optional Top Coat: Sikafloor 315N is a high solids, low VOC abrasion resistant, aliphatic polyurethane coating in [Refer to Sikafloor color chart] color with the following properties:
   1. Pull-off Strength to Primed Concrete (ASTM D4541): > 400 psi (2.76 MPa) with 100% concrete failure.
   2. Hardness (ASTM D 3363 Pencil): 2H to 3H concrete failure.
   3. VOC Content (ASTM D2369): With Wear Aggregate ≤ 100 g/L, With Sikafloor Urethane Color Add Only ≤ 50 g/L.
   4. Tensile Strength (ASTM D2370): 2,882 psi.
   5. Elongation: 2.29.
   6. Abrasion Resistance (ASTM D4060): 0.01 - 0.02 grams (CS-17 Wheel, 1000 gm load, 1000 cycles).
   7. Coefficient Of Friction (ASTM D2047): 0.6 - 0.7.
   8. Slip Resistance: Equivalent to ASTM D2047 Passes.

G. Cove base: Polyurethane mortar cove based.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine surfaces to receive flooring system. Notify Architect/General Contractor/Owner/Owner's representative if surfaces are not acceptable. Do not begin surface preparation or application until unacceptable conditions have been corrected. Do not apply to substrate treatments for moisture, repair, or leveling not of the same Manufacturer.

B. Surface must be clean, sound and dry. Remove dust, laitance, grease, curing compounds bond inhibiting impregnations, waxes and any other contaminants. All projections, rough spots, etc. should be dressed off to achieve a level surface prior to the application.

C. Concrete substrate to have a minimum compressive strength of 3,500 psi (24 MPa) at 28 days and a minimum of 215 psi (1.5 MPa) in tension at time of application.

D. Substrate moisture:
   1. Measure and confirm Substrate Moisture Content, Ambient Relative Humidity, Ambient and Surface Temperature and Dew Point.

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2. Confirm and record above values at least once every 3 hours during installation, or more frequently whenever conditions change (e.g. Ambient Temperature rise/fall, Relative Humidity increase/decrease, etc.).

E. Ensure concrete substrate conforms to the minimum requirements of the flooring manufacturer.

F. Flooring system shall not be applied to sand-cement setting beds. Sand-cement beds shall be removed to structural concrete substrate and re-leveled/sloped as necessary to achieve grade and/or adequate drainage.

G. Flooring system shall not be applied to asphaltic or bitumen membranes, soft wood, aluminum, copper or fiberglass reinforced polyester/vinyl ester composites.

H. Application to glazed or vitrified brick and tile, structural wood, steel shall only be permitted with Manufacturer's written recommendation.

3.2 SURFACE PREPARATION

A. Prepare surface to receive flooring systems in accordance with manufacturer's written instructions.

B. Remove dirt, oil, grease, wax, laitance, curing compounds, water-soluble concrete hardeners, and other surface contaminants. Remove sealers, finishes, and paints. Remove unsound concrete by appropriate mechanical means.

C. Concrete: Shall be cleaned and prepared to achieve laitance-free and contaminant-free, open textured surface by shot blasting or equivalent mechanical means (CSP level as per ICRI guidelines and manufacturer's written recommendation).

D. Chemical Surface Preparation: Chemical surface preparation (acid etching) is unacceptable and will void Manufacturer's warranty.

E. Control joints and cracks: Provide repair and treatment of control joints and surface cracks utilizing manufacturer's standard materials and installation details.

3.3 APPLICATION

A. Mix and apply material with strict adherence to manufacturer's written installation procedures and coverage rates.

B. Follow Manufacturer's written recommendations on terminations and connections to walls, drains, doorways, columns and floor-to-floor transitions.

C. Do not apply while ambient and substrate temperatures are rising.

D. Apply resinous flooring with care to ensure that no laps, voids, or other marks or irregularities are visible, and with an appearance of uniform color, sheen and texture, all within limitations of materials and areas concerned.

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E. Match colors and textures of approved samples.

F. Install cove base with radius in accordance with manufacturer's written instructions.

3.4 CLEAN UP

A. Disposal of this product, solution and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

B. Empty containers should be taken to an approved waste handling site for recycling or disposal.

3.5 PROTECTION

A. Freshly applied material should be protected from dampness, condensation and water for at least 72 hrs.

B. Beware of air flow and changes in air flow. Introduction of dust, debris, and particles, etc. may result in surface imperfections and other defects.

C. Follow manufacturer's written recommendation with respect to cure, wait time and return to service.

END OF SECTION 09 67 23

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SECTION 09 91 13
EXTERIOR PAINTING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes surface preparation and the application of paint systems on the following exterior substrates:
   1. Wood & Exterior Finish Carpentry

B. Related Requirements:

1.3 DEFINITIONS

A. MPI Gloss Level 1: Not more than five units at 60 degrees and 10 units at 85 degrees, according to ASTM D523.

B. MPI Gloss Level 3: 10 to 25 units at 60 degrees and 10 to 35 units at 85 degrees, according to ASTM D523.

C. MPI Gloss Level 4: 20 to 35 units at 60 degrees and not less than 35 units at 85 degrees, according to ASTM D523.

D. MPI Gloss Level 5: 35 to 70 units at 60 degrees, according to ASTM D523.

E. MPI Gloss Level 6: 70 to 85 units at 60 degrees, according to ASTM D523.

F. MPI Gloss Level 7: More than 85 units at 60 degrees, according to ASTM D523.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product. Include preparation requirements and application instructions.

   1. Include printout of current "MPI Approved Products List" for each product category specified, with the proposed product highlighted.
   2. Indicate VOC content.

B. Sustainable Design Submittals:

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1. Product Data: For paints and coatings, indicating VOC content.

2. Environmental Product Declaration: For each product.

3. Health Product Declaration: For each product.

4. Sourcing of Raw Materials: Corporate sustainability report for each manufacturer.

C. Samples for Initial Selection: For each type of topcoat product.

D. Samples for Verification: For each type of paint system and each color and gloss of topcoat.

1. Submit Samples on rigid backing, 4 inches square.
2. Apply coats on Samples in steps to show each coat required for system.
3. Label each coat of each Sample.
4. Label each Sample for location and application area.

E. Product List: Cross-reference to paint system and locations of application areas. Use same designations indicated on Drawings and in schedules. Include color designations.

1.5 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials**,** that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Paint: **5** percent, but not less than **1 gal.** of each material and color applied.

1.6 QUALITY ASSURANCE

A. Mockups: Apply mockups of each paint system indicated and each color and finish selected to verify preliminary selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.

1. Architect will select one surface to represent surfaces and conditions for application of each paint system.

a. Vertical and Horizontal Surfaces: Provide samples of at least 16 sq. ft.
b. Other Items: Architect will designate items or areas required.

2. Final approval of color selections will be based on mockups.

a. If preliminary color selections are not approved, apply additional mockups of additional colors selected by Architect at no added cost to Owner.

3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.

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4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F.

1. Maintain containers in clean condition, free of foreign materials and residue.
2. Remove rags and waste from storage areas daily.

1.8 FIELD CONDITIONS

A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 deg F.

B. Do not apply paints in snow, rain, fog, or mist; when relative humidity exceeds 85 percent; at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:

1. Sherwin-Williams Company (The). Abbreviated: S-W (Basis of Design Products)
2. Benjamin Moore & Co. Abbreviated: B-M
3. PPG Paints. Abbreviated: PPG

B. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to products listed in the Exterior Painting Schedule for the paint category indicated.

2.2 PAINT, GENERAL

A. MPI Standards: Products shall comply with MPI standards indicated and shall be listed in its "MPI Approved Products Lists."

B. Material Compatibility:

1. Materials for use within each paint system shall be compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
2. For each coat in a paint system, products shall be recommended in writing by topcoat manufacturers for use in paint system and on substrate indicated.

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C. VOC Content: For field applications, paints and coatings shall comply with VOC content limits of authorities having jurisdiction and the following VOC content limits:

1. Flat Paints and Coatings: 50 g/L.
2. Nonflat Paints and Coatings: 50 g/L.
3. Dry-Fog Coatings: 150 g/L.
4. Primers, Sealers, and Undercoaters: 100 g/L.
5. Rust-Preventive Coatings: 100 g/L.
6. Zinc-Rich Industrial Maintenance Primers: 100 g/L.

D. Colors: As selected by Architect from manufacturer's full range.

2.3 SOURCE QUALITY CONTROL

A. Testing of Paint Materials: Owner reserves the right to invoke the following procedure:

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

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.

B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:

1. Concrete: 12 percent.
2. Cementitious Composition Board: 12 percent.
3. Masonry (Clay and CMU): 12 percent.
4. Wood: 15 percent.
5. Portland Cement Plaster (Stucco): 12 percent

C. Verify suitability of substrates, including surface conditions and compatibility, with existing finishes and primers.

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D. Proceed with coating application only after unsatisfactory conditions have been corrected.

1. Application of coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates and paint systems indicated.

B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.

1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection.

C. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.

1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.

D. Concrete Substrates: Remove release agents, curing compounds, efflorescence, and chalk. Do not paint surfaces if moisture content or alkalinity of surfaces to be painted exceeds that permitted in manufacturer's written instructions.

E. Masonry Substrates: Remove efflorescence and chalk. Do not paint surfaces if moisture content or alkalinity of surfaces or mortar joints exceeds that permitted in manufacturer's written instructions.

F. Wood Substrates:

1. Scrape and clean knots. Before applying primer, apply coat of knot sealer recommended in writing by topcoat manufacturer for exterior use in paint system indicated.
2. Sand surfaces that will be exposed to view, and dust off.
3. Prime edges, ends, faces, undersides, and backsides of wood.
4. After priming, fill holes and imperfections in the finish surfaces with putty or plastic wood filler. Sand smooth when dried.

3.3 APPLICATION

A. Apply paints according to manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual."

1. Use applicators and techniques suited for paint and substrate indicated.
2. Paint surfaces behind movable items same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed items with prime coat only.

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3. Paint both sides and edges of exterior doors and entire exposed surface of exterior door frames.

4. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
5. Primers specified in painting schedules may be omitted on items that are factory primed or factory finished if acceptable to topcoat manufacturers.

B. Tint undercoats same color as topcoat, but tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Provide sufficient difference in shade of undercoats to distinguish each separate coat.

C. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.

D. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.

E. Painting Fire Suppression, Plumbing, HVAC, Electrical, Communication, and Electronic Safety and Security Work:

1. Paint the following work where exposed to view:

a. Equipment, including panelboards and switch gear.
b. Uninsulated metal piping.
c. Uninsulated plastic piping.
d. Pipe hangers and supports.
e. Metal conduit.
f. Plastic conduit.

3.4 FIELD QUALITY CONTROL

A. Dry Film Thickness Testing: Owner may engage the services of a qualified testing and inspecting agency to inspect and test paint for dry film thickness.

1. Contractor shall touch up and restore painted surfaces damaged by testing.
2. If test results show that dry film thickness of applied paint does not comply with paint manufacturer's written recommendations, Contractor shall pay for testing and apply additional coats as needed to provide dry film thickness that complies with paint manufacturer's written recommendations.

3.5 CLEANING AND PROTECTION

A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.

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B. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.

C. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.

D. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.6 EXTERIOR PAINTING SCHEDULE

A. Concrete, Nontraffic Surfaces:

1. Latex System:

a. Prime Coat: Primer sealer, latex.

1) S-W Loxon Concrete & Masonry Primer Sealer, A24W8300, at 8.0 mils (0.203 mm) wet, 3.2 mils (0.081 mm) dry.

b. Prime Coat: Latex, exterior, matching topcoat.
c. Intermediate Coat: Latex, exterior, matching topcoat.
d. Topcoat: Latex, exterior, flat.

1) S-W A-100 Exterior Latex Flat, A6 Series, at 4.0 mils (0.102 mm) wet, 1.2 mils (0.030 mm) dry, per coat.

e. Topcoat: Latex, exterior, low sheen.

1) S-W A-100 Exterior Latex Low Sheen, A12 Series, at 4.0 mils (0.102 mm) wet, 1.5 mils (0.038 mm) dry, per coat.

f. Topcoat: Latex, exterior, satin.

1) S-W A-100 Exterior Latex Satin, A82 Series, at 4.0 mils (0.102 mm) wet, 1.5 mils (0.038 mm) dry, per coat.

g. Topcoat: Latex, exterior, semi-gloss.

1) S-W Solo Acrylic Semi-Gloss, A76 Series, at 4.0 mils (0.102 mm) wet, 1.5 mils (0.038 mm) dry, per coat.

h. Topcoat: Latex, exterior, gloss.

1) S-W A-100 Exterior Latex Gloss, A8 Series, at 4.0 mils (0.102 mm) wet, 1.3 mils (0.033 mm) dry, per coat.

2. Latex over Latex Aggregate System:

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a. Prime Coat: Block Filler, Latex, Interior/Exterior.

1) S-W Loxon Block Surfacer, A24W200, at 50 to 100 sq. ft. per gal. (1.23 to 2.45 sq. m per liter).

b. Topcoat: Latex, exterior flat, fine texture.

1) S-W UltraCrete Textured Masonry Topcoat, A44-800 Series, 50 to 80 sq. ft. per gal. (1.23 to 1.96 sq. m per liter).

3. Concrete Stain System (Water-based):

a. First Coat: Low-luster opaque finish matching topcoat.
b. Topcoat: Low-luster opaque finish:

1) S-W H&C Colortop Water-Based Solid Color Concrete Stain, at 50 to 250 sq. ft. per gal. (1.23 to 6.14 sq. m per liter).

B. Concrete Substrates, Pedestrian Traffic Surfaces:

1. Latex Floor Paint System:

a. First Coat: Floor paint, latex, slip-resistant, matching topcoat.
b. Topcoat: Floor paint, latex, slip-resistant, low gloss.

1) S-W ArmorSeal Tread-Plex, B90 Series, at 1.5 to 2.0 mils (0.038 to 0.051 mm) dry per coat.

2. Concrete Stain System (Water-based) for Vertical Surfaces:

a. First Coat: Low-luster opaque finish matching top coat.
b. Topcoat: Low-luster opaque finish.

1) S-W H&C Colortop Water-Based Solid Color Concrete Stain, at 50 to 250 sq. ft. per gal. (1.23 to 6.14 sq. m per liter).

C. CMU Substrates:

1. Latex System:

a. Block Filler: Block filler, latex, interior/exterior:

1) S-W PrepRite Block Filler, B25W25, at 75 to 125 sq. ft. per gal. (1.84 to 3.07 sq. m per liter).

b. Intermediate Coat: Latex, exterior, matching topcoat.
c. Topcoat: Latex, exterior, flat.

1) S-W A-100 Exterior Latex Flat, A6 Series, at 4.0 mils (0.102 mm) wet, 1.2 mils (0.030 mm) dry, per coat.

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d. Topcoat: Latex, exterior, low sheen.

1) S-W A-100 Exterior Latex Low Sheen, A12 Series, at 4.0 mils (0.102 mm) wet, 1.5 mils (0.038 mm) dry, per coat.

2. CMU Stain System (Water-Based):

a. First Coat: Low-luster opaque finish matching topcoat.
b. Topcoat: Low-luster opaque finish.

1) S-W H&C Colortop Water-Based Solid Color Concrete Stain, at 50 to 250 sq. ft. per gal. (1.23 to 6.14 sq. m per liter).

D. Wood Substrates (including Exterior Finish Carpentry/Cellular PVC Trim)**:**

1. Latex System :

a. Primer, latex, interior/exterior**, MPI #6**.
1) S-W - Prep-Rite ProBlock Primer Sealer – B51W00620
2) B-M – Ultra Spec Exterior Latex Primer – N558
3) PPG – Seal Grip Universal Primer/Sealer – 17-921XI

b. Intermediate Coat: Latex, Exterior Semi-gloss, matching topcoat.

c. Topcoat: Latex, Exterior Semi-gloss, (MPI Gloss Level 5)**, MPI #11**.
1) S-W - Duration Exterior Acrylic Gloss – K34 series
2) B-M – Ultra Spec Waterborne Exterior Gloss – N449/K449
3) PPG – Permanizer Exterior 100% Acrylic Latex Semi-Gloss –749-10 series

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SECTION 09 91 23

INTERIOR PAINTING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes surface preparation and the application of paint systems on interior substrates, including, but not necessarily limited to , the following:
   1. Concrete masonry units (CMUs).
   2. Steel and iron.
   3. Galvanized metal.
   4. Aluminum (not anodized or otherwise coated).
   5. Wood.

B. Related Requirements:

   1. Section 05 12 00 "Structural Steel Framing" for shop priming structural steel.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product. Include preparation requirements and application instructions.

   1. Include Printout of current "MPI Approved Products List" for each product category specified, with the proposed product highlighted.
   2. Indicate VOC content.

B. Samples for Initial Selection: For each type of topcoat product.

C. Samples for Verification: For each type of paint system and in each color and gloss of topcoat.

   1. Submit Samples on rigid backing, 8 inches square.
   2. Apply coats on Samples in steps to show each coat required for system.
   3. Label each coat of each Sample.
   4. Label each Sample for location and application area.

D. Product List: Cross-reference to paint system and locations of application areas. Use same designations indicated on Drawings and in schedules. Include color designations.

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1.4 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials from the same product run that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Paint: 5 percent, but not less than 1 gal. of each material and color applied.

1.5 QUALITY ASSURANCE

A. Mockups: Apply mockups of each paint system indicated and each color and finish selected to verify preliminary selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.

1. Architect will select one surface to represent surfaces and conditions for application of each paint system.

a. Vertical and Horizontal Surfaces: Provide samples of at least 16 sq. ft.
b. Other Items: Architect will designate items or areas required.

2. Final approval of color selections will be based on mockups.

a. If preliminary color selections are not approved, apply additional mockups of additional colors selected by Architect at no added cost to Owner.

3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F.

1. Maintain containers in clean condition, free of foreign materials and residue.
2. Remove rags and waste from storage areas daily.

1.7 FIELD CONDITIONS

A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 deg F.

B. Do not apply paints when relative humidity exceeds 85 percent; at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.

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PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:

1. Sherwin-Williams Company (The). Abbreviated: S-W (Basis of Design)
2. Benjamin Moore & Co. Abbreviated: B-M
3. PPG Paints. Abbreviated: PPG

B. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to products listed in the Interior Painting Schedule for the paint category indicated.

2.2 PAINT, GENERAL

A. MPI Standards: Products shall comply with MPI standards indicated and shall be listed in its "MPI Approved Products Lists."

B. Material Compatibility:

1. Materials for use within each paint system shall be compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
2. For each coat in a paint system, products shall be recommended in writing by topcoat manufacturers for use in paint system and on substrate indicated.

C. For field applications that are inside the weatherproofing system, paints and coatings shall comply with VOC content limits of authorities having jurisdiction and the following VOC content limits:

1. Flat Paints and Coatings: 50 g/L.
2. Nonflat Paints and Coatings: 50 g/L.
3. Dry-Fog Coatings: 150 g/L.
4. Primers, Sealers, and Undercoaters: 100 g/L.
5. Rust-Preventive Coatings: 100 g/L.
6. Zinc-Rich Industrial Maintenance Primers: 100 g/L.
7. Pretreatment Wash Primers: 420 g/L.
8. Shellacs, Clear: 730 g/L.
9. Shellacs, Pigmented: 550 g/L.

D. Low-Emitting Materials: For field applications that are inside the weatherproofing system, 90 percent of paints and coatings shall comply with the requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."

E. Colors: To be selected by architect from manufacturer’s full range.

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2.3 SOURCE QUALITY CONTROL

A. Testing of Paint Materials: Owner reserves the right to invoke the following procedure:

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

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.

B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:

1. Concrete: 12 percent.
2. Masonry (Clay and CMUs): 12 percent.
3. Wood: 12 percent

C. Verify suitability of substrates, including surface conditions and compatibility, with existing finishes and primers.

D. Proceed with coating application only after unsatisfactory conditions have been corrected.

1. Application of coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates and paint systems indicated.

B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.

1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.

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C. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.

1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.

D. Concrete Substrates: Remove release agents, curing compounds, efflorescence, and chalk. Do not paint surfaces if moisture content or alkalinity of surfaces to be painted exceeds that permitted in manufacturer's written instructions.

E. Masonry Substrates: Remove efflorescence and chalk. Do not paint surfaces if moisture content or alkalinity of surfaces or mortar joints exceeds that permitted in manufacturer's written instructions.

F. Steel Substrates: Remove rust, loose mill scale, and shop primer, if any. Clean using methods recommended in writing by paint manufacturer, but not less than the following:

1. SSPC-SP 2.
2. SSPC-SP 3.

G. Shop-Primed Steel Substrates: Clean field welds, bolted connections, and areas where shop paint is abraded. Paint exposed areas with the same material as used for shop priming to comply with SSPC-PA 1 for touching up shop-primed surfaces.

H. Galvanized-Metal Substrates: Remove grease and oil residue from galvanized sheet metal by mechanical methods to produce clean, lightly etched surfaces that promote adhesion of subsequently applied paints.

I. Cotton or Canvas Insulation Covering Substrates: Remove dust, dirt, and other foreign material that might impair bond of paints to substrates.

J. Interior Wood Items Scheduled to Receive Paint Finish: Wipe off dust and grit prior to priming. Seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after primer has dried; sand between coats.

3.3 APPLICATION

A. Apply paints according to manufacturer's written instructions and to recommendations in "MPI Manual."

1. Use applicators and techniques suited for paint and substrate indicated.
2. Paint surfaces behind movable equipment and furniture same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed equipment or furniture with prime coat only.
3. Paint front and backsides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.
4. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.

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5. Primers specified in painting schedules may be omitted on items that are factory primed or factory finished if acceptable to topcoat manufacturers.

B. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Tint undercoats to match color of topcoat, but provide sufficient difference in shade of undercoats to distinguish each separate coat.

C. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.

D. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.

E. Painting Plumbing, HVAC, Electrical, Communication, and Electronic Safety and Security Work:

1. Paint the following work where exposed in equipment rooms:
   a. Uninsulated metal piping.
   b. Uninsulated plastic piping.
   c. Pipe hangers and supports.
   d. Metal conduit.
   e. Plastic conduit.

2. Paint the following work where exposed in occupied spaces:

   a. Equipment, including panelboards.
   b. Uninsulated metal piping.
   c. Uninsulated plastic piping.
   d. Pipe hangers and supports.
   e. Metal conduit.
   f. Plastic conduit.
   g. Other items as directed by Architect.

3. Paint portions of internal surfaces of metal ducts, without liner, behind air inlets and outlets that are visible from occupied spaces.

3.4 FIELD QUALITY CONTROL

A. Dry Film Thickness Testing: Owner may engage the services of a qualified testing and inspecting agency to inspect and test paint for dry film thickness.

1. Contractor shall touch up and restore painted surfaces damaged by testing.
2. If test results show that dry film thickness of applied paint does not comply with paint manufacturer's written recommendations, Contractor shall pay for testing and apply additional coats as needed to provide dry film thickness that complies with paint manufacturer's written recommendations.

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3.5 CLEANING AND PROTECTION

A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.

B. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.

C. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.

D. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.6 INTERIOR PAINTING SCHEDULE

A. CMU Substrates – Normal Use (All corridors, changing room and utility room):

1. Latex System :

a. Block Filler: Block filler, latex, interior/exterior**, MPI #4x green**.
   1) S-W - Prep-Rite Interior/Exterior Block Filler - B25W00025
   2) B-M – Ultra Spec Hi Build masonry Block – 571/K571
   3) PPG – Speedhide Int/Ext Masonry Hi Fill Latex Block Filler – 6-15XI

b. Intermediate Coat: Latex, interior, matching topcoat.

c. Topcoat: Latex, interior (MPI Gloss Level 3)**, MPI #52x green**.
   1) S-W - ProMar 200 Zero VOC Interior Latex Eg-Shel - B20W12651
   2) B-M – Supre Hide Zero VOC Interior Eggshell – 357//K357
   3) PPG – Speedhide Zero Interior Zero VOC Latex Satin – 6-4410XI

B. CMU Substrates – High Performance (All corridors, changing room and utility room) :

1. Water-Based Light Industrial Coating System:

a. Block Filler: Block filler, latex, interior/exterior**, MPI #4x green**.
   1) S-W - Prep-Rite Interior/Exterior Block Filler - B25W00025
   2) B-M – Ultra Spec Hi Build masonry Block – 571/K571
   3) PPG – Speedhide Int/Ext Masonry Hi Fill Latex Block Filler – 6-15XI

b. Intermediate Coat: Light industrial coating, interior, water based, matching topcoat.

c. Topcoat: Light industrial coating, interior, water based (MPI Gloss Level 3)**, MPI #151**.
   1) S-W - Pro-Industrial Pre-Cat Epoxy Eg-Shel – K45W01151
   2) B-M – Corotech Pre-Catalyzed Epoxy Eggshell – V342
   3) PPG – Pitt-Glaze WB1 Int. Eggshell Pre-Cat. WB Acrylic Epoxy – 16-310

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C. Steel Substrates:

1. Water-Based Light Industrial Coating System:

a. Prime Coat: Unless shop primed- Primer, rust-inhibitive, water based **MPI #107**.
   1) S-W - Pro-Cryl Universal Primer- B66W01310
   2) B-M – Ultra-Spec HP Acrylic Metal Primer – HP04/FP04
   3) PPG – Pitt-Tech Int/Ext DTM Industrial Primer – 90-712

b. Intermediate Coat: Light industrial coating, interior, water based, matching topcoat.

c. Topcoat: Light industrial coating, interior, water based (MPI Gloss Level 5)**, MPI #153**.
   1) S-W - Pro-Industrial Pre-Cat Epoxy Semi-gloss – K46W01151
   2) B-M – Super Spec HP DTM Acrylic Semi gloss – HP29/FP29
   3) PPG – Pitt-Glaze WB1 Int. Semi-Gloss Pre-Cat. WB Acrylic Epoxy– 16-510

D. Galvanized-Metal Substrates:

1. Latex System:

a. Prime Coat: Primer, galvanized, water based**, MPI #134**.
   1) S-W - Pro-Cryl Universal Primer- B66W01310
   2) B-M - Ultra-Spec HP Acrylic Metal Primer – HP04/FP04
   3) PPG - Pitt-Tech IPlus 4020 PF / Devflex 4020PF – 4020

b. Intermediate Coat: Latex, interior, matching topcoat.

c. Topcoat: Latex, interior (MPI Gloss Level 3)**, MPI #52 x green**.
   1) S-W - ProMar 200 Zero VOC Interior Latex Primer - B28W02600/ B28WQ2600
   2) B-M – Supre Hide Zero VOC Interior Eggshell – 357//K357
   3) PPG – Speedhide Zero Interior Zero VOC Latex Sealer – 6-4900XI

E. Wood Substrates:
1. Latex over Latex Sealer System:
   a. Prime Coat: Primer sealer, latex interior,
      1) S-W - PrepRite ProBlock Primer Sealer, B51-620 Series
      2) B-M - Fresh Start Multi-Purpose Primer N023 (44 g/L), MPI # 6, 17, X-Green 17, 39, 137, X-Green 137
      3) PPG – 6-2 Series Speedhide Interior Quick-Drying Latex Sealer Zero Interior Zero VOC
   b. Intermediate Coat: Latex, interior, matching topcoat.
   c. Topcoat: Latex, interior semi-gloss:
      1) S-W - ProMar 200 Zero VOC Latex Semi-Gloss, B31-2600 Series
      2) B-M - Coronado Rust Scat Waterborne Acrylic Semi-Gloss 90 (134 g/L), MPI # 153
      3) PPG - 6-500 Series Speedhide, Interior Latex Semi-gloss

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SECTION 10 71 00
ALUMINUM PANEL PRIVACY SCREEN

PART 1 - GENERAL

1.01 DESCRIPTION OF PRODUCT

A. Shelter Type: Windscreen With Aluminum Laser Cut Panels.
B. Roof Slope: **0:12**

1.02 REFERENCES

A. REFERENCED STANDARDS
   1. AISC – American Institute of Steel Construction
      a. AISC Steel Construction Manual – 14th edition
      b. AISC 360-10 Specification for Structural Steel Buildings
   2. ASTM – American Society for Testing and Materials
      a. ASTM A36/A36M – Standard Specification for Carbon Structural Steel; 2008
      b. ASTM A325 – Standard Specification for Structural Steel Bolts, Heat Treated, 120/105 ksi Minimum Tensile Strength; 2010
      c. ASTM A563 – Standard Specification for Carbon and Alloy Steel Nuts; 2007a
      d. ASTM A500 – Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes; 2010a
      e. ASTM A653/A653M – Standard Specification for Sheet Steel, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvanealed) by the Hot Dip Process; 2010
      f. ASTM A792/A792M – Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy Coated by the Hot-Dip Process; 2010
      g. ASTM F1554 – Standard Specification for Anchor Bolts, Steel, 36, 50 and 105 ksi Yield Strength; 2007a
   3. AWS – American Welding Society
      a. D1.1
      b. D1.3
      c. D1.8
   4. OSHA – Occupational Safety and Health Administration
      a. Steel Erection Standard 29 CFR 1926.750 Part R
   5. SSPC – Steel Structures Painting Council
      a. SSPC-SP 2 – Hand Tool Cleaning; 2004
      b. SSPC-SP 10/NACE No. 2 – Near White Blast Cleaning; 2007
   6. LEED – Leadership in Energy and Environmental Design
   7. ISO – International Organization for Standardization

1.03 SYSTEM DESCRIPTION

A. The structure shall be a pre-engineered package and shall be shipped as a pre-cut (excluding standing seam roof panels) and pre-fabricated package that shall include the structural framing members, roof panels, fasteners and roof trim as well as job specific installation instructions. The structure will be shipped in an un-assembled package for ease of shipment and minimum shipping charges.

1.04 SUBMITTALS

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A. Submit a minimum of four (4) sets of submittal drawings and (2) sets of structural calculations signed and sealed by a Professional Engineer licensed in the state of New Jersey.

B. PRODUCT DESIGN REQUIREMENTS:
   1. The structure shall meet the following design requirements:
      a. Building Code: New Jersey UCC Building Subcode 2021
      b. Ground Snow Load: 30 p.s.f.
      c. Live Load: 20 p.s.f.
      d. Wind Speed: 100 m.p.h. Exp “C”
      e. Seismic Design Category: D

C. SUBMITTAL REQUIREMENTS
   1. Calculations:
      a. Design according to the requirements of the national, state, or local building codes as indicated in Section 1.04.B.
      b. Calculations shall include all member design for each different member type.
      c. Connection design for each different connection that will determine the design of the bolts, welds, plate thickness and anchorage to the foundation.
      d. Foundation design shall be for the loads applied, not a generic foundation design, while taking into account all soils information.
   2. Submittal Drawings:
      a. Anchor bolt layout with all appropriate dimensions for installation.
      b. Site specific foundation design.
      c. Isometric as well as elevation and plan views of the framing members along with the member sizes and locations indicated on the drawings.
      d. Connection details for every connection on the frame.
      e. Roof panel connections and trim installation details.
      f. All accessories on the structure shall have an installation detail as well as connection details.

D. FOUNDATION DESIGN
   1. The foundation design shall be supplied by the manufacturer.
   2. Anchor bolts shall be supplied by the manufacturer.
   3. Foundation materials and labor shall be provided by the structure contractor.
   4. Owner should provide site specific soils information for proper foundation design, if that data is not provided the foundation will be design for the minimum soil values allowed by code.

1.05 QUALITY ASSURANCE

A. MANUFACTURER QUALIFICATIONS
   1. The product shall be designed, engineered and fabricated at a facility operated and directly supervised by the manufacturer.
   2. The manufacturer shall have a minimum of 15 years in steel shelter fabrication.
   3. Full Time on Staff Quality Assurance Manager.
   4. American Society for Quality (ASQ) Certified Quality Manager/Organizational Excellence and/or ASQ Certified Quality Engineer on staff.
   5. All welders must be AWS certified for welding steel structures.
   6. Membership in the American Welding Society (AWS).
   7. Membership in the American Institute of Steel Construction (AISC).
   8. Full Time on Staff Licensed Engineer.
   9. Published Quality Control System manual.
   10. Quality Control System must pass an annual audit by a Third-Party Agency.
   11. ISO 9001 certification for Powder Coating System.
   12. LEED AP on staff.

B. MANUFACTURER’S CERTIFICATIONS

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1. Clark County, NV Approved Fabricator.
2. City of Los Angeles, CA Approved Fabricator Structural Steel
3. State of Utah
4. City of Phoenix, AZ
5. City of San Bernardino, CA
6. Riverside, CA

1.06 FIELD OR SITE CONDITIONS

A. Foundations shall be installed per the ICON installation drawings.
   1. All foundations shall be cast at the same elevation unless specifically noted on the ICON installation drawings.

B. Anchor bolts shall be placed in the foundation as per the ICON installation drawings utilizing the anchor bolt template supplied with the anchor bolts.
   1. Anchor bolts shall be installed per the dimensions and orientation shown on the drawings.

1.07 MANUFACTURER WARRANTY

A. Shelter shall have a 15-year limited warranty on the steel framing members.

B. For all Metal Roofing there will be a pass-through warranty direct from the metal Roofing supplier, warranty shall be provided on request.

2.01 SHELTER SYSTEM AND MATERIALS

A. MANUFACTURERS:
   1. Basis of Design Manufacturer: ICON Shelter Systems, Inc., 1455 Lincoln Rd., Holland, MI, 49423. Email: info@iconshelters.com, Website: www.iconshelters.com.
   2. Pricing for this specific project and specified shelter can be requested from:
      1) Ben Shaffer Recreation
         P.O. Box 844
         Lake Hopatcong, NJ 07849
         (973) 663-2021
         Kim@benshaffer.com
   3. Alternative Manufacturers: Approved Equal. The product shall be designed and fabricated at a facility operated and directly supervised by the manufacturer.

B. SUBSTITUTION LIMITATIONS:
   1. Substitutions must be approved a minimum of ten (10) business days prior to bid. All approved manufacturers shall be notified in writing before the bid date and shall not be allowed to bid without written notification. Any approval of an alternate manufacturer shall be through an official bid addendum prior to the bid date.
   2. Alternate manufacturers shall meet the requirements, qualifications and provide proof of certifications listed under Section 1.05 QUALITY ASSURANCE.
   3. Alternate manufacturers shall provide documentation that the power-coat system being provided meets or exceeds the ICON supplied powder-coat system listed under Section 2.01(c)(8).

C. PRODUCT REQUIREMENTS AND MATERIALS:
   1. GENERAL:
      a. The pre-engineered and pre-fabricated package of parts shall be pre-cut and packaged unless noted otherwise. These packages will include all parts and pieces necessary to field assemble

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the shelter at the jobsite. The shelter shall be shipped in knocked down format to minimize shipping expenses. Field labor will be kept to a minimum with no on-site welding required.

2. CONCRETE FOR FOUNDATIONS:
   a. Concrete shall have a minimum 28-day compressive strength of 2,500 psi unless noted otherwise on the foundation detail.
   b. Reinforcing steel shall be ASTM A615, Grade 60.
3. COLUMNS:
   a. Hollow Structural Section (HSS) columns shall meet ASTM A500, Grade B with a minimum wall thickness of 3/16" (0.1875").
   b. Unless the columns are direct buried in the foundation the columns shall attach to the foundation with a minimum of four (4) anchor rods and shall meet OSHA Steel Erection Standard 29 CFR 1926.755(a)(1).
4. STRUCTURAL FRAMING:
   a. All Hollow Structural Sections (HSS) shall meet ASTM A500, Grade B.
   b. Wide flange beams, tapered columns or open channel sections shall meet ASTM A36.
5. COMPRESSION RINGS:
   a. Compression rings shall be made of ASTM A36 structural plate or of structural channel welded together to form the ring. All connections not requiring compression rings shall use ASTM A500, Grade B HSS sections for these connections.
6. CONNECTION REQUIREMENTS:
   a. Anchor rods shall be ASTM F1554, Grade 36 unless otherwise noted.
   b. Structural fasteners shall be ASTM A325 high strength bolts and A563 nuts.
   c. All structural fasteners shall be hidden within the framing members whenever possible.
   d. No field welding shall be required to finish the construction of the shelter.
7. ROOFING MATERIALS:
8. a. No roofing materials for this project.

   a. COASTAL FACTORY FRAME FINISH:
      1) All structural steel shall be cleaned, pre-treated and finished in the following manner:
      2) The steel shall be shot-blasted to the specification of SSPC-SP10 near white blast cleaning. SSPC-SP2 hand tool cleaning will not be an acceptable alternative.
      3) The shot-blasted parts are then washed with zinc-phosphate in an eight (8) stage washer.
      4) The steel is then immersed in a liquid epoxy and coated through an electro-deposition process (E-coat).
      5) The parts are then coated with two coats of TGIC Super durable polyester powder of 8 to 12 mils.
9. ACCESSORIES
   a. ELECTRICAL ACCESS
      1) Standard in all column bases is a 3" diameter hole, located in the center of the plate. This allows electrical wiring into the column base.

PART 3 - EXECUTION

3.01 STORAGE AND HANDLING

A. When the shelter arrives at the jobsite protect the products from weather, sunlight and damage.

B. When unloading, pad the forks and use other precautions to protect the powder-coated finish. Do not use chains to move the materials, use straps. Handle all materials carefully in the field to avoid scratching the powder-coat finish.

C. Contractor shall store the product elevated from the soil to allow full air circulation around the materials as to not introduce mold, decay, fungi or insects into or on the materials. One end of the

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materials shall be elevated higher than the other end if storage will be longer than a few days as to allow the water to run off the materials.

3.02 INSTALLATION OF MATERIALS

A. The shelter shall be placed on prepared foundations that were designed by the manufacturer (unless otherwise noted). Materials for these foundations are not supplied by ICON but by the foundation installation contractor. Foundation shall be constructed to all local building code requirements and per good construction practices for the specific site conditions.
   1. In accordance with OSHA Steel Erection Standard 29 CFR 1926.750 Part R, anchor rods shall be installed for proper column stability and shall have a minimum of four (4) anchor bolts per column. Therefore, no single anchor rod column base connections shall be allowed.

B. The contractor shall install all parts and pieces per the manufacturer's supplied installation instructions and these specifications.

C. The interface with other work required is to be coordinated by the customer or the customer's agent. Some design may have electrical or plumbing requirements that are not supplied by ICON.

D. Tolerances on structural steel members are set according to AISC Code of Standard Practice for Steel Buildings and Bridges and have been used for the fabrication of this product. These tolerances will not and cannot be increased. No field slotting or opening of holes will be allowed without proper guidance from the ICON Engineering Department.

3.03 REPAIR

A. No field modifications or corrections are allowed without authorization from the ICON Engineering Department.

3.04 SITE QUALITY CONTROL

A. ICON does not require any on-site inspections or testing but these may be required by local authorities and the local building inspector. Please be aware of any on-site requirements prior to starting installation.

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SECTION 10 73 13
AWNINGS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Motorized retractable awnings.

B. Related Requirements:

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Include styles, material descriptions, construction details, fabrication details, dimensions of individual components and profiles, hardware, fittings, mounting accessories, features, and finishes for awnings.
2. Include rated capacities, operating characteristics, electrical characteristics, and furnished specialties and accessories.

B. Shop Drawings:

1. Include plans, elevations, sections, mounting heights, and attachment details.
2. Detail fabrication and assembly of awnings , including seam layout, spacing, and orientation of awning fabric .
3. Include diagrams for power, signal, and control wiring.
4. Show locations for blocking, reinforcement, and supplementary structural support.
5. Graphics: Show text message, font, character sizes, and other graphic forms; character, word, and line spacing; margin widths; position of copy; and other information related to graphic design.

C. Samples: For each exposed product and for each color and texture specified.

D. Samples for Initial Selection: For each type of exposed finish.

1. Include Samples of graphics on fabric and accessories involving color or finish selection.

E. Samples for Verification: For the following:

1. Awning Fabric: 12-inch- square section of fabric from dye lot to be used for the Work, with specified treatments applied. Mark face of fabric.
2. Seam, Edge, and Corner Condition: Not less than 12-inch- long section showing seam, edge, and corner treatment.
3. Valance: Full-size unit, not less than 12 inches long.
4. Frame Finish: Not less than 6-inch lengths.

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F. Product Schedule: For awnings. Use same designations indicated on Drawings.

1.3 INFORMATIONAL SUBMITTALS

A. Welding certificates.

B. Sample Warranty: For special warranty.

1.4 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For awnings to include in operation and maintenance manuals.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: Fabricator of products.

B. Welding Qualifications: Qualify procedures and personnel according to the following:

1. AWS D1.1/D1.1M, "Structural Welding Code - Steel."
2. AWS D1.2/D1.2M, "Structural Welding Code - Aluminum."

1.6 WARRANTY

A. Special Warranty: Manufacturer and fabricator agree to repair or replace components of awnings that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

a. Structural failures including framework.
b. Deterioration of fabric including seam failure.
c. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
d. Faulty operation of operator.

2. Awning Warranty Period: 8 years from date of Substantial Completion.
3. Fabric Warranty Period: 12 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes.

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1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

B. Fire-Test-Response Characteristics: Provide awning fabrics with the fire-test-response characteristics indicated, as determined by testing identical products according to test method indicated below by UL or another testing and inspecting agency acceptable to authorities having jurisdiction:

1. Flame-Resistance Ratings: Passes NFPA 701 .
2. Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency for Flame-Spread Index of 25 or less.
3. Permanently attach label to each awning fabric indicating whether fabric is inherently and permanently flame resistant or is treated with flame-retardant chemicals, and whether it requires retreatment after designated time period or cleaning.

2.2 FABRIC

A. Basis-of-Design Product: Subject to compliance with requirements, provide Sunbrella Exceed FR or comparable product by one of the following:

1. Recasen Recsystem
2. Or approved equal.

B. Fabric: Per manufacturer’s standard.

C. Decorative Trims: Borders .

1. Colors: As selected by Architect from manufacturer's full range .

D. Fringe: As indicated by manufacturer's designation for style and color .

2.3 AWNING FRAME AND ACCESSORY MATERIALS

A. Steel:

1. Steel Plates, Shapes, and Bars: ASTM A36/A36M.
2. Steel Tubing: ASTM A500/A500M.
3. Galvanized Steel Tubing: ASTM A787/A787M.
4. Steel Pipe: ASTM A53/A53M, Standard Weight (Schedule 40).

B. Aluminum: Alloy and temper recommended by awning manufacturer for type of use and finish indicated and with not less than the strength and durability properties of alloy and temper required by structural loads.

1. Aluminum Plate and Sheet: ASTM B209.
2. Aluminum Extrusions: ASTM B221.
3. Extruded Structural Pipe and Round Tubing: ASTM B429/B429M, standard weight (Schedule 40).
4. Drawn Seamless Tubing: ASTM B210.

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C. Anchors, Fasteners, Fittings, Hardware, and Installation Accessories: Complying with performance requirements indicated and suitable for exposure conditions, supporting structure, anchoring substrates, and installation methods indicated. Corrosion-resistant or noncorrodible units; weather-resistant, tamperproof, vandal- and theft-resistant, compatible, nonstaining materials. Provide as required for awning assembly, mounting, and secure attachment. Number as needed to comply with performance requirements and to maintain uniform appearance; evenly spaced. Where exposed to view, provide finish and color as selected by Architect from manufacturer's full range.

1. Wood Screws: ASME B18.6.1.
2. Lag Bolts: ASME B18.2.1.
3. Zinc-Coated High-Strength Bolts, Nuts, and Washers: ASTM F3125/F3125M,Grade A325, Type 1, heavy-hex steel structural bolts; ASTM A563, Grade DH, heavy-hex carbon-steel nuts; and ASTM F436/F436M, Type 1, hardened carbon-steel washers, zinc coated.
4. Expansion Anchors: Anchor bolt and sleeve assembly with capability to sustain, without failure, a load equal to six times the load imposed when installed in unit masonry assemblies and equal to four times the load imposed when installed in concrete as determined by testing according to ASTM E488 conducted by a qualified independent testing and inspecting agency.
    a. Material: Stainless steel with bolts and nuts complying with ASTM F593 and ASTM F594, Alloy Group 1 or 2.
5. Adhesive-Bonded Anchors: Anchor bolt and sleeve assembly with capability to sustain, without failure, a load equal to six times the load imposed when installed in unit masonry assemblies and equal to four times the load imposed when installed in concrete as determined by testing according to ASTM E1512 conducted by a qualified independent testing and inspecting agency.
    a. Material: Stainless steel with bolts and nuts complying with ASTM F593 and ASTM F594, Alloy Group 1 or 2.
6. Grommets: Stainless steel, No. 2 .
7. Lacing: 100 percent polyester, braided No. 4 .

D. Galvanizing Repair Paint: High-zinc-dust-content paint for regalvanizing welds in steel, complying with SSPC-Paint 20.

E. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D1187.

2.4 MOTORIZED RETRACTABLE AWNINGS

A. Basis-of-Design Product: Subject to compliance with requirements, provide Eclipse Premier **Standard Hood** from Eclipse Shading or comparable product by one of the following:

1. KE Outdoor Design
2. Somfy Systems Inc.
3. Or approved equal.

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B. Type: Retractable awning, fabricated form aluminum, with hinged arms attached to torsion bar, with tensioning system designed to keep fabric taut in any position.

C. Fabric Roll Protection: **Standard Hood** design to partially enclose fabric roll when awning is retracted.

D. Motorized Operator: Provide factory-assembled, motorized, retractable-awning operator designed for retracting awnings of type, size, weight, construction, use, and operation frequency indicated.

E. Mounting Brackets: Configured for mounting to surface indicated, with adjustable pitch.

F. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

G. Control Equipment: Comply with NEMA ICS 1, NEMA ICS 2, and NEMA ICS 6 with NFPA 70, Class 2 control circuit, maximum 24-V ac or dc .

H. Electric Motors: UL-approved or -recognized, totally enclosed, insulated motor, complying with NEMA MG 1, with thermal-overload protection and internal limit switches; sized by awning manufacturer to start and operate size and weight of awning considering service factor or considering Project's service conditions without exceeding nameplate ratings.

1. Service Factor: According to NEMA MG 1 unless otherwise indicated.
2. Motor Characteristics: Single phase, V, 60 Hz.
3. Coordinate wiring requirements and electrical characteristics of motors with building electrical system.
4. Motor Mounting: Within manufacturer's standard roller enclosure.

I. Remote Controls: Electric controls with NEMA ICS 6, Type 4 enclosure for surface mounting. Provide the following devices for remote-control activation of awnings:

1. Keyed Control Stations: Momentary -contact, three-position, switch-operated control station with open, close, and off functions. Provide two keys per station.
2. Control Stations: Momentary -contact, three-position, toggle or rocker -style, wall-switch-operated control station with open, close, and center-off functions.

    a. Function: Combined individual and group.
    b. Color: White .

3. Sun Sensor Controls: Programmable system activated by LEDs detecting daylight intensity and responding by automatically adjusting awnings.
4. Radio Controls: Digital system consisting of code-compatible universal coaxial receiver, one per awning .

    a. Multi-Channel Radio Transmitters: Portable multi-channel transmitters for operating 7 awnings individually, each with a single button to open and close awnings; provide 7 units.

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J. Operating Features: Include the following:

1. Capable of accepting input from building automation control system.
2. Override switch.
3. Backup gear and crank operator for manual operation during power failures with detachable handle, manufacturer's standard length .
4. Limit Switches: Adjustable switches, interlocked with motor controls and set to automatically stop awning at fully raised and fully lowered positions.
5. Preset Position Function: Stop and hold awning at any position .

K. Finish: Manufacturer's standard primed and top-coated decorative finish complying with finish manufacturer's written instructions for surface preparation including pretreatment, application, baking, and minimum dry film thickness.

1. Color: As selected by Architect from manufacturer's full range .

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for supporting members, blocking, inserts, installation tolerances, operational clearances, accurate locations of connections to building electrical system, and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. General: Install awnings and motor controls at locations and in position indicated, securely connected to supports, free of rack, and in proper relation to adjacent construction. Use mounting methods of types described and in compliance with Shop Drawings and fabricator's written instructions.

B. Install awnings after other finishing operations, including joint sealing and painting, have been completed.

C. Slip fit frame connections accurately together to form hairline joints, and tighten to secure.

D. Weld frame connections that are not to be left as exposed joints but cannot be shop welded because of shipping size limitations.

1. Field Welding: Comply with the following requirements:

a. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.

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b. Obtain fusion without undercut or overlap.
c. Remove welding flux immediately.
d. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.

E. Anchoring to In-Place Construction: Use anchors, fasteners, fittings, hardware, and installation accessories where necessary for securing awnings to structural support and for properly transferring load to in-place construction.

F. Corrosion Protection: Coat concealed surfaces of aluminum that come in contact with grout, concrete, masonry, wood, or dissimilar metals with a heavy coat of bituminous paint.

G. Coordinate awning installation with flashing and joint-sealant installation so these materials are installed in sequence and in a manner that prevents exterior moisture from passing through completed exterior wall and roof assemblies.

3.3 ADJUSTING

A. Adjust hardware and moving parts to function smoothly, and lubricate as recommended by retractable-awning manufacturer.

3.4 CLEANING AND PROTECTION

A. Touch up factory-applied finishes to restore damaged or soiled areas.

B. Galvanized Surfaces: Clean field welds, connections, and abraded areas and repair galvanizing to comply with ASTM A780.

3.5 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain retractable awnings.

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SECTION 10 73 16.13
STAGE PROTECTIVE SHADE COVERS

PART 1 - GENERAL

1.01 DESCRIPTION OF PRODUCT

A. Shelter Type: 12'X28' Filtered Light Straight Cantilever Arbor with Aluminum Laser Cut Panels
B. Roof Slope: **2:12**
C. Clear height under Tie Beam (UTB): **8'-0".** This is the clearance under the tie beam which spans between the columns.

1.02 REFERENCES

A. REFERENCED STANDARDS
   1. AISC – American Institute of Steel Construction
      a. AISC Steel Construction Manual – 14th edition
      b. AISC 360-10 Specification for Structural Steel Buildings
   2. ASTM – American Society for Testing and Materials
      a. ASTM A36/A36M – Standard Specification for Carbon Structural Steel; 2008
      b. ASTM A325 – Standard Specification for Structural Steel Bolts, Heat Treated, 120/105 ksi Minimum Tensile Strength; 2010
      c. ASTM A563 – Standard Specification for Carbon and Alloy Steel Nuts; 2007a
      d. ASTM A500 – Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes; 2010a
      e. ASTM A653/A653M – Standard Specification for Sheet Steel, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvanealed) by the Hot Dip Process; 2010
      f. ASTM A792/A792M – Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy Coated by the Hot-Dip Process; 2010
      g. ASTM F1554 – Standard Specification for Anchor Bolts, Steel, 36, 50 and 105 ksi Yield Strength; 2007a
   3. AWS – American Welding Society
      a. D1.1
      b. D1.3
      c. D1.8
   4. OSHA – Occupational Safety and Health Administration
      a. Steel Erection Standard 29 CFR 1926.750 Part R
   5. SSPC – Steel Structures Painting Council
      a. SSPC-SP 2 – Hand Tool Cleaning; 2004
      b. SSPC-SP 10/NACE No. 2 – Near White Blast Cleaning; 2007
   6. LEED – Leadership in Energy and Environmental Design
   7. ISO – International Organization for Standardization

1.03 SYSTEM DESCRIPTION

A. The structure shall be a pre-engineered package and shall be shipped as a pre-cut (excluding standing seam roof panels) and pre-fabricated package that shall include the structural framing members, roof panels, fasteners and roof trim as well as job specific installation instructions. The structure will be shipped in an un-assembled package for ease of shipment and minimum shipping charges.

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1.04 SUBMITTALS

A. Submit a minimum of four (4) sets of submittal drawings and (2) sets of structural calculations signed and sealed by a Professional Engineer licensed in the state of New Jersey.

B. PRODUCT DESIGN REQUIREMENTS:
   1. The structure shall meet the following design requirements:
      a. Building Code: New Jersey UCC Building Subcode 2021
      b. Ground Snow Load: 30 p.s.f.
      c. Live Load: 20 p.s.f.
      d. Wind Speed: 100 m.p.h. Exp “C”
      e. Seismic Design Category: D

C. SUBMITTAL REQUIREMENTS
   1. Calculations:
      a. Design according to the requirements of the national, state, or local building codes as indicated in Section 1.04.B.
      b. Calculations shall include all member design for each different member type.
      c. Connection design for each different connection that will determine the design of the bolts, welds, plate thickness and anchorage to the foundation.
      d. Foundation design shall be for the loads applied, not a generic foundation design, while taking into account all soils information.
   2. Submittal Drawings:
      a. Anchor bolt layout with all appropriate dimensions for installation.
      b. Site specific foundation design.
      c. Isometric as well as elevation and plan views of the framing members along with the member sizes and locations indicated on the drawings.
      d. Connection details for every connection on the frame.
      e. Roof panel connections and trim installation details.
      f. All accessories on the structure shall have an installation detail as well as connection details.

D. FOUNDATION DESIGN
   1. The foundation design shall be supplied by the manufacturer.
   2. Anchor bolts shall be supplied by the manufacturer.
   3. Foundation materials and labor shall be provided by the structure contractor.
   4. Owner should provide site specific soils information for proper foundation design, if that data is not provided the foundation will be design for the minimum soil values allowed by code.

1.05 QUALITY ASSURANCE

A. MANUFACTURER QUALIFICATIONS
   1. The product shall be designed, engineered and fabricated at a facility operated and directly supervised by the manufacturer.
   2. The manufacturer shall have a minimum of 15 years in steel shelter fabrication.
   3. Full Time on Staff Quality Assurance Manager.
   4. American Society for Quality (ASQ) Certified Quality Manager/Organizational Excellence and/or ASQ Certified Quality Engineer on staff.
   5. All welders must be AWS certified for welding steel structures.
   6. Membership in the American Welding Society (AWS).
   7. Membership in the American Institute of Steel Construction (AISC).
   8. Full Time on Staff Licensed Engineer.
   9. Published Quality Control System manual.
   10. Quality Control System must pass an annual audit by a Third-Party Agency.
   11. ISO 9001 certification for Powder Coating System.

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12. LEED AP on staff.

B. MANUFACTURER'S CERTIFICATIONS
   1. Clark County, NV Approved Fabricator.
   2. City of Los Angeles, CA Approved Fabricator Structural Steel
   3. State of Utah
   4. City of Phoenix, AZ
   5. City of San Bernardino, CA
   6. Riverside, CA

1.06 FIELD OR SITE CONDITIONS

A. Foundations shall be installed per the ICON installation drawings.
   1. All foundations shall be cast at the same elevation unless specifically noted on the ICON installation drawings.

B. Anchor bolts shall be placed in the foundation as per the ICON installation drawings utilizing the anchor bolt template supplied with the anchor bolts.
   1. Anchor bolts shall be installed per the dimensions and orientation shown on the drawings.

1.07 MANUFACTURER WARRANTY

A. Shelter shall have a 15-year limited warranty on the steel framing members.

B. For all Metal Roofing there will be a pass-through warranty direct from the metal Roofing supplier, warranty shall be provided on request.

2.01 SHELTER SYSTEM AND MATERIALS

A. MANUFACTURERS:
   1. Basis of Design Manufacturer: ICON Shelter Systems, Inc., 1455 Lincoln Rd., Holland, MI, 49423. Email: info@iconshelters.com, Website: www.iconshelters.com.
   2. Pricing for this specific project and specified shelter can be requested from:
      1) Ben Shaffer Recreation
         P.O. Box 844
         Lake Hopatcong, NJ 07849
         (973) 663-2021
         Kim@benshaffer.com
   3. Alternative Manufacturers: Approved Equal. The product shall be designed and fabricated at a facility operated and directly supervised by the manufacturer.

B. SUBSTITUTION LIMITATIONS:
   1. Substitutions must be approved a minimum of ten (10) business days prior to bid. All approved manufacturers shall be notified in writing before the bid date and shall not be allowed to bid without written notification. Any approval of an alternate manufacturer shall be through an official bid addendum prior to the bid date.
   2. Alternate manufacturers shall meet the requirements, qualifications and provide proof of certifications listed under Section 1.05 QUALITY ASSURANCE.
   3. Alternate manufacturers shall provide documentation that the power-coat system being provided meets or exceeds the ICON supplied powder-coat system listed under Section 2.01(c)(8).

C. PRODUCT REQUIREMENTS AND MATERIALS:

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1. GENERAL:
   a. The pre-engineered and pre-fabricated package of parts shall be pre-cut and packaged unless noted otherwise. These packages will include all parts and pieces necessary to field assemble the shelter at the jobsite. The shelter shall be shipped in knocked down format to minimize shipping expenses. Field labor will be kept to a minimum with no on-site welding required.
2. CONCRETE FOR FOUNDATIONS:
   a. Concrete shall have a minimum 28-day compressive strength of 2,500 psi unless noted otherwise on the foundation detail.
   b. Reinforcing steel shall be ASTM A615, Grade 60.
3. COLUMNS:
   a. Hollow Structural Section (HSS) columns shall meet ASTM A500, Grade B with a minimum wall thickness of 3/16" (0.1875").
   b. Unless the columns are direct buried in the foundation the columns shall attach to the foundation with a minimum of four (4) anchor rods and shall meet OSHA Steel Erection Standard 29 CFR 1926.755(a)(1).
4. STRUCTURAL FRAMING:
   a. All Hollow Structural Sections (HSS) shall meet ASTM A500, Grade B.
   b. Wide flange beams, tapered columns or open channel sections shall meet ASTM A36.
5. COMPRESSION RINGS:
   a. Compression rings shall be made of ASTM A36 structural plate or of structural channel welded together to form the ring. All connections not requiring compression rings shall use ASTM A500, Grade B HSS sections for these connections.
6. CONNECTION REQUIREMENTS:
   a. Anchor rods shall be ASTM F1554, Grade 36 unless otherwise noted.
   b. Structural fasteners shall be ASTM A325 high strength bolts and A563 nuts.
   c. All structural fasteners shall be hidden within the framing members whenever possible.
   d. No field welding shall be required to finish the construction of the shelter.
7. ROOFING MATERIALS:
   a. 1/8" 5052 Aluminum Laser Cut Panel
   b. COASTAL FACTORY FRAME FINISH:
      1) All structural steel shall be cleaned, pre-treated and finished in the following manner:
      2) The steel shall be shot-blasted to the specification of SSPC-SP10 near white blast cleaning. SSPC-SP2 hand tool cleaning will not be an acceptable alternative.
      3) The shot-blasted parts are then washed with zinc-phosphate in an eight (8) stage washer.
      4) The steel is then immersed in a liquid epoxy and coated through an electro-deposition process (E-coat).
      5) The parts are then coated with two coats of TGIC Super durable polyester powder of 8 to 12 mils.
8. ACCESSORIES
   a. ELECTRICAL ACCESS
      1) Standard in all column bases is a 3" diameter hole, located in the center of the plate. This allows electrical wiring into the column base.

PART 3 - EXECUTION

3.01 STORAGE AND HANDLING

A. When the shelter arrives at the jobsite protect the products from weather, sunlight and damage.

B. When unloading, pad the forks and use other precautions to protect the powder-coated finish. Do not use chains to move the materials, use straps. Handle all materials carefully in the field to avoid scratching the powder-coat finish.

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C. Contractor shall store the product elevated from the soil to allow full air circulation around the materials as to not introduce mold, decay, fungi or insects into or on the materials. One end of the materials shall be elevated higher than the other end if storage will be longer than a few days as to allow the water to run off the materials.

3.02 INSTALLATION OF MATERIALS

A. The shelter shall be placed on prepared foundations that were designed by the manufacturer (unless otherwise noted). Materials for these foundations are not supplied by ICON but by the foundation installation contractor. Foundation shall be constructed to all local building code requirements and per good construction practices for the specific site conditions.
   1. In accordance with OSHA Steel Erection Standard 29 CFR 1926.750 Part R, anchor rods shall be installed for proper column stability and shall have a minimum of four (4) anchor bolts per column. Therefore, no single anchor rod column base connections shall be allowed.

B. The contractor shall install all parts and pieces per the manufacturer's supplied installation instructions and these specifications.

C. The interface with other work required is to be coordinated by the customer or the customer's agent. Some design may have electrical or plumbing requirements that are not supplied by ICON.

D. Tolerances on structural steel members are set according to AISC Code of Standard Practice for Steel Buildings and Bridges and have been used for the fabrication of this product. These tolerances will not and cannot be increased. No field slotting or opening of holes will be allowed without proper guidance from the ICON Engineering Department.

3.03 REPAIR

A. No field modifications or corrections are allowed without authorization from the ICON Engineering Department.

3.04 SITE QUALITY CONTROL

A. ICON does not require any on-site inspections or testing but these may be required by local authorities and the local building inspector. Please be aware of any on-site requirements prior to starting installation.

END OF SECTION 10 73 16.13

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SECTION 10 73 16.14
AMPHITHEATER PROTECTIVE SHADE COVERS

PART 1 - GENERAL

1.01 DESCRIPTION OF PRODUCT

A. Shelter Type: **20' X 87' Arbor Curved Cantilievered with Aluminum Laser Cut Panels**
B. Roof Slope: **2:12**
C. Clear height under Tie Beam (UTB): **8'-0".** This is the clearance under the tie beam which spans between the columns.

1.02 REFERENCES

A. REFERENCED STANDARDS
   1. AISC – American Institute of Steel Construction
      a. AISC Steel Construction Manual – 14th edition
      b. AISC 360-10 Specification for Structural Steel Buildings
   2. ASTM – American Society for Testing and Materials
      a. ASTM A36/A36M – Standard Specification for Carbon Structural Steel; 2008
      b. ASTM A325 – Standard Specification for Structural Steel Bolts, Heat Treated, 120/105 ksi Minimum Tensile Strength; 2010
      c. ASTM A563 – Standard Specification for Carbon and Alloy Steel Nuts; 2007a
      d. ASTM A500 – Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes; 2010a
      e. ASTM A653/A653M – Standard Specification for Sheet Steel, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvanealed) by the Hot Dip Process; 2010
      f. ASTM A792/A792M – Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy Coated by the Hot-Dip Process; 2010
      g. ASTM F1554 – Standard Specification for Anchor Bolts, Steel, 36, 50 and 105 ksi Yield Strength; 2007a
   3. AWS – American Welding Society
      a. D1.1
      b. D1.3
      c. D1.8
   4. OSHA – Occupational Safety and Health Administration
      a. Steel Erection Standard 29 CFR 1926.750 Part R
   5. SSPC – Steel Structures Painting Council
      a. SSPC-SP 2 – Hand Tool Cleaning; 2004
      b. SSPC-SP 10/NACE No. 2 – Near White Blast Cleaning; 2007
   6. LEED – Leadership in Energy and Environmental Design
   7. ISO – International Organization for Standardization

1.03 SYSTEM DESCRIPTION

A. The structure shall be a pre-engineered package and shall be shipped as a pre-cut (excluding standing seam roof panels) and pre-fabricated package that shall include the structural framing members, roof panels, fasteners and roof trim as well as job specific installation instructions. The structure will be shipped in an un-assembled package for ease of shipment and minimum shipping charges.

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1.04 SUBMITTALS

A. Submit a minimum of four (4) sets of submittal drawings and (2) sets of structural calculations signed and sealed by a Professional Engineer licensed in the state of New Jersey.

B. PRODUCT DESIGN REQUIREMENTS:
   1. The structure shall meet the following design requirements:
      a. Building Code: New Jersey UCC Building Subcode 2021
      b. Ground Snow Load: 30 p.s.f.
      c. Live Load: 20 p.s.f.
      d. Wind Speed: 100 m.p.h. Exp “C”
      e. Seismic Design Category: D

C. SUBMITTAL REQUIREMENTS
   1. Calculations:
      a. Design according to the requirements of the national, state, or local building codes as indicated in Section 1.04.B.
      b. Calculations shall include all member design for each different member type.
      c. Connection design for each different connection that will determine the design of the bolts, welds, plate thickness and anchorage to the foundation.
      d. Foundation design shall be for the loads applied, not a generic foundation design, while taking into account all soils information.
   2. Submittal Drawings:
      a. Anchor bolt layout with all appropriate dimensions for installation.
      b. Site specific foundation design.
      c. Isometric as well as elevation and plan views of the framing members along with the member sizes and locations indicated on the drawings.
      d. Connection details for every connection on the frame.
      e. Roof panel connections and trim installation details.
      f. All accessories on the structure shall have an installation detail as well as connection details.

D. FOUNDATION DESIGN
   1. The foundation design shall be supplied by the manufacturer.
   2. Anchor bolts shall be supplied by the manufacturer.
   3. Foundation materials and labor shall be provided by the structure contractor.
   4. Owner should provide site specific soils information for proper foundation design, if that data is not provided the foundation will be design for the minimum soil values allowed by code.

1.05 QUALITY ASSURANCE

A. MANUFACTURER QUALIFICATIONS
   1. The product shall be designed, engineered and fabricated at a facility operated and directly supervised by the manufacturer.
   2. The manufacturer shall have a minimum of 15 years in steel shelter fabrication.
   3. Full Time on Staff Quality Assurance Manager.
   4. American Society for Quality (ASQ) Certified Quality Manager/Organizational Excellence and/or ASQ Certified Quality Engineer on staff.
   5. All welders must be AWS certified for welding steel structures.
   6. Membership in the American Welding Society (AWS).
   7. Membership in the American Institute of Steel Construction (AISC).
   8. Full Time on Staff Licensed Engineer.
   9. Published Quality Control System manual.
   10. Quality Control System must pass an annual audit by a Third-Party Agency.
   11. ISO 9001 certification for Powder Coating System.

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12. LEED AP on staff.

B. MANUFACTURER'S CERTIFICATIONS
   1. Clark County, NV Approved Fabricator.
   2. City of Los Angeles, CA Approved Fabricator Structural Steel
   3. State of Utah
   4. City of Phoenix, AZ
   5. City of San Bernardino, CA
   6. Riverside, CA

1.06 FIELD OR SITE CONDITIONS

A. Foundations shall be installed per the ICON installation drawings.
   1. All foundations shall be cast at the same elevation unless specifically noted on the ICON installation drawings.

B. Anchor bolts shall be placed in the foundation as per the ICON installation drawings utilizing the anchor bolt template supplied with the anchor bolts.
   1. Anchor bolts shall be installed per the dimensions and orientation shown on the drawings.

1.07 MANUFACTURER WARRANTY

A. Shelter shall have a 15-year limited warranty on the steel framing members.

B. For all Metal Roofing there will be a pass-through warranty direct from the metal Roofing supplier, warranty shall be provided on request.

2.01 SHELTER SYSTEM AND MATERIALS

A. MANUFACTURERS:
   1. Basis of Design Manufacturer: ICON Shelter Systems, Inc., 1455 Lincoln Rd., Holland, MI, 49423. Email: info@iconshelters.com, Website: www.iconshelters.com.
   2. Pricing for this specific project and specified shelter can be requested from:
      1) Ben Shaffer Recreation
         P.O. Box 844
         Lake Hopatcong, NJ 07849
         (973) 663-2021
         Kim@benshaffer.com
   3. Alternative Manufacturers: Approved Equal. The product shall be designed and fabricated at a facility operated and directly supervised by the manufacturer.

B. SUBSTITUTION LIMITATIONS:
   1. Substitutions must be approved a minimum of ten (10) business days prior to bid. All approved manufacturers shall be notified in writing before the bid date and shall not be allowed to bid without written notification. Any approval of an alternate manufacturer shall be through an official bid addendum prior to the bid date.
   2. Alternate manufacturers shall meet the requirements, qualifications and provide proof of certifications listed under Section 1.05 QUALITY ASSURANCE.
   3. Alternate manufacturers shall provide documentation that the power-coat system being provided meets or exceeds the ICON supplied powder-coat system listed under Section 2.01(c)(8).

C. PRODUCT REQUIREMENTS AND MATERIALS:

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1. GENERAL:
   a. The pre-engineered and pre-fabricated package of parts shall be pre-cut and packaged unless noted otherwise. These packages will include all parts and pieces necessary to field assemble the shelter at the jobsite. The shelter shall be shipped in knocked down format to minimize shipping expenses. Field labor will be kept to a minimum with no on-site welding required.
2. CONCRETE FOR FOUNDATIONS:
   a. Concrete shall have a minimum 28-day compressive strength of 2,500 psi unless noted otherwise on the foundation detail.
   b. Reinforcing steel shall be ASTM A615, Grade 60.
3. COLUMNS:
   a. Hollow Structural Section (HSS) columns shall meet ASTM A500, Grade B with a minimum wall thickness of 3/16" (0.1875").
   b. Unless the columns are direct buried in the foundation the columns shall attach to the foundation with a minimum of four (4) anchor rods and shall meet OSHA Steel Erection Standard 29 CFR 1926.755(a)(1).
4. STRUCTURAL FRAMING:
   a. All Hollow Structural Sections (HSS) shall meet ASTM A500, Grade B.
   b. Wide flange beams, tapered columns or open channel sections shall meet ASTM A36.
5. COMPRESSION RINGS:
   a. Compression rings shall be made of ASTM A36 structural plate or of structural channel welded together to form the ring. All connections not requiring compression rings shall use ASTM A500, Grade B HSS sections for these connections.
6. CONNECTION REQUIREMENTS:
   a. Anchor rods shall be ASTM F1554, Grade 36 unless otherwise noted.
   b. Structural fasteners shall be ASTM A325 high strength bolts and A563 nuts.
   c. All structural fasteners shall be hidden within the framing members whenever possible.
   d. No field welding shall be required to finish the construction of the shelter.
7. ROOFING MATERIALS:
8. A. 1/8" Aluminum Laser Cut Panel
   a. COASTAL FACTORY FRAME FINISH:
      1) All structural steel shall be cleaned, pre-treated and finished in the following manner:
      2) The steel shall be shot-blasted to the specification of SSPC-SP10 near white blast cleaning. SSPC-SP2 hand tool cleaning will not be an acceptable alternative.
      3) The shot-blasted parts are then washed with zinc-phosphate in an eight (8) stage washer.
      4) The steel is then immersed in a liquid epoxy and coated through an electro-deposition process (E-coat).
      5) The parts are then coated with two coats of TGIC Super durable polyester powder of 8 to 12 mils.
9. ACCESSORIES
   a. ELECTRICAL ACCESS
      1) Standard in all column bases is a 3" diameter hole, located in the center of the plate. This allows electrical wiring into the column base.

PART 3 - EXECUTION

3.01 STORAGE AND HANDLING

A. When the shelter arrives at the jobsite protect the products from weather, sunlight and damage.

B. When unloading, pad the forks and use other precautions to protect the powder-coated finish. Do not use chains to move the materials, use straps. Handle all materials carefully in the field to avoid scratching the powder-coat finish.

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C. Contractor shall store the product elevated from the soil to allow full air circulation around the materials as to not introduce mold, decay, fungi or insects into or on the materials. One end of the materials shall be elevated higher than the other end if storage will be longer than a few days as to allow the water to run off the materials.

3.02 INSTALLATION OF MATERIALS

A. The shelter shall be placed on prepared foundations that were designed by the manufacturer (unless otherwise noted). Materials for these foundations are not supplied by ICON but by the foundation installation contractor. Foundation shall be constructed to all local building code requirements and per good construction practices for the specific site conditions.
   1. In accordance with OSHA Steel Erection Standard 29 CFR 1926.750 Part R, anchor rods shall be installed for proper column stability and shall have a minimum of four (4) anchor bolts per column. Therefore, no single anchor rod column base connections shall be allowed.

B. The contractor shall install all parts and pieces per the manufacturer's supplied installation instructions and these specifications.

C. The interface with other work required is to be coordinated by the customer or the customer's agent. Some design may have electrical or plumbing requirements that are not supplied by ICON.

D. Tolerances on structural steel members are set according to AISC Code of Standard Practice for Steel Buildings and Bridges and have been used for the fabrication of this product. These tolerances will not and cannot be increased. No field slotting or opening of holes will be allowed without proper guidance from the ICON Engineering Department.

3.03 REPAIR

A. No field modifications or corrections are allowed without authorization from the ICON Engineering Department.

3.04 SITE QUALITY CONTROL

A. ICON does not require any on-site inspections or testing but these may be required by local authorities and the local building inspector. Please be aware of any on-site requirements prior to starting installation.

END OF SECTION 10 73 16.14

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SECTION 10 73 16.15
ENTRY SEATING PROTECTIVE SHADE COVERS

PART 1 - GENERAL

1.01 DESCRIPTION OF PRODUCT

A. Shelter Type: **12' X 53' Arbor Curved Cantilievered with Aluminum Laser Cut Panels**
B. Roof Slope: **2:12**
C. Clear height under Tie Beam (UTB): **8'-0".** This is the clearance under the tie beam which spans between the columns.

1.02 REFERENCES

A. REFERENCED STANDARDS
   1. AISC – American Institute of Steel Construction
      a. AISC Steel Construction Manual – 14th edition
      b. AISC 360-10 Specification for Structural Steel Buildings
   2. ASTM – American Society for Testing and Materials
      a. ASTM A36/A36M – Standard Specification for Carbon Structural Steel; 2008
      b. ASTM A325 – Standard Specification for Structural Steel Bolts, Heat Treated, 120/105 ksi Minimum Tensile Strength; 2010
      c. ASTM A563 – Standard Specification for Carbon and Alloy Steel Nuts; 2007a
      d. ASTM A500 – Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes; 2010a
      e. ASTM A653/A653M – Standard Specification for Sheet Steel, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvanealed) by the Hot Dip Process; 2010
      f. ASTM A792/A792M – Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy Coated by the Hot-Dip Process; 2010
      g. ASTM F1554 – Standard Specification for Anchor Bolts, Steel, 36, 50 and 105 ksi Yield Strength; 2007a
   3. AWS – American Welding Society
      a. D1.1
      b. D1.3
      c. D1.8
   4. OSHA – Occupational Safety and Health Administration
      a. Steel Erection Standard 29 CFR 1926.750 Part R
   5. SSPC – Steel Structures Painting Council
      a. SSPC-SP 2 – Hand Tool Cleaning; 2004
      b. SSPC-SP 10/NACE No. 2 – Near White Blast Cleaning; 2007
   6. LEED – Leadership in Energy and Environmental Design
   7. ISO – International Organization for Standardization

1.03 SYSTEM DESCRIPTION

A. The structure shall be a pre-engineered package and shall be shipped as a pre-cut (excluding standing seam roof panels) and pre-fabricated package that shall include the structural framing members, roof panels, fasteners and roof trim as well as job specific installation instructions. The structure will be shipped in an un-assembled package for ease of shipment and minimum shipping charges.

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1.04 SUBMITTALS

A. Submit a minimum of four (4) sets of submittal drawings and (2) sets of structural calculations signed and sealed by a Professional Engineer licensed in the state of New Jersey.

B. PRODUCT DESIGN REQUIREMENTS:
   1. The structure shall meet the following design requirements:
      a. Building Code: New Jersey UCC Building Subcode 2021
      b. Ground Snow Load: 30 p.s.f.
      c. Live Load: 20 p.s.f.
      d. Wind Speed: 100 m.p.h. Exp “C”
      e. Seismic Design Category: D

C. SUBMITTAL REQUIREMENTS
   1. Calculations:
      a. Design according to the requirements of the national, state, or local building codes as indicated in Section 1.04.B.
      b. Calculations shall include all member design for each different member type.
      c. Connection design for each different connection that will determine the design of the bolts, welds, plate thickness and anchorage to the foundation.
      d. Foundation design shall be for the loads applied, not a generic foundation design, while taking into account all soils information.
   2. Submittal Drawings:
      a. Anchor bolt layout with all appropriate dimensions for installation.
      b. Site specific foundation design.
      c. Isometric as well as elevation and plan views of the framing members along with the member sizes and locations indicated on the drawings.
      d. Connection details for every connection on the frame.
      e. Roof panel connections and trim installation details.
      f. All accessories on the structure shall have an installation detail as well as connection details.

D. FOUNDATION DESIGN
   1. The foundation design shall be supplied by the manufacturer.
   2. Anchor bolts shall be supplied by the manufacturer.
   3. Foundation materials and labor shall be provided by the structure contractor.
   4. Owner should provide site specific soils information for proper foundation design, if that data is not provided the foundation will be design for the minimum soil values allowed by code.

1.05 QUALITY ASSURANCE

A. MANUFACTURER QUALIFICATIONS
   1. The product shall be designed, engineered and fabricated at a facility operated and directly supervised by the manufacturer.
   2. The manufacturer shall have a minimum of 15 years in steel shelter fabrication.
   3. Full Time on Staff Quality Assurance Manager.
   4. American Society for Quality (ASQ) Certified Quality Manager/Organizational Excellence and/or ASQ Certified Quality Engineer on staff.
   5. All welders must be AWS certified for welding steel structures.
   6. Membership in the American Welding Society (AWS).
   7. Membership in the American Institute of Steel Construction (AISC).
   8. Full Time on Staff Licensed Engineer.
   9. Published Quality Control System manual.
   10. Quality Control System must pass an annual audit by a Third-Party Agency.
   11. ISO 9001 certification for Powder Coating System.

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12. LEED AP on staff.

B. MANUFACTURER'S CERTIFICATIONS
1. Clark County, NV Approved Fabricator.
2. City of Los Angeles, CA Approved Fabricator Structural Steel
3. State of Utah
4. City of Phoenix, AZ
5. City of San Bernardino, CA
6. Riverside, CA

1.06 FIELD OR SITE CONDITIONS

A. Foundations shall be installed per the ICON installation drawings.
1. All foundations shall be cast at the same elevation unless specifically noted on the ICON installation drawings.

B. Anchor bolts shall be placed in the foundation as per the ICON installation drawings utilizing the anchor bolt template supplied with the anchor bolts.
1. Anchor bolts shall be installed per the dimensions and orientation shown on the drawings.

1.07 MANUFACTURER WARRANTY

A. Shelter shall have a 15-year limited warranty on the steel framing members.

B. For all Metal Roofing there will be a pass-through warranty direct from the metal Roofing supplier, warranty shall be provided on request.

2.01 SHELTER SYSTEM AND MATERIALS

A. MANUFACTURERS:
1. Basis of Design Manufacturer: ICON Shelter Systems, Inc., 1455 Lincoln Rd., Holland, MI, 49423. Email: info@iconshelters.com, Website: www.iconshelters.com.
2. Pricing for this specific project and specified shelter can be requested from:
1) Ben Shaffer Recreation
P.O. Box 844
Lake Hopatcong, NJ 07849
(973) 663-2021
Kim@benshaffer.com
3. Alternative Manufacturers: Approved Equal. The product shall be designed and fabricated at a facility operated and directly supervised by the manufacturer.

B. SUBSTITUTION LIMITATIONS:
1. Substitutions must be approved a minimum of ten (10) business days prior to bid. All approved manufacturers shall be notified in writing before the bid date and shall not be allowed to bid without written notification. Any approval of an alternate manufacturer shall be through an official bid addendum prior to the bid date.
2. Alternate manufacturers shall meet the requirements, qualifications and provide proof of certifications listed under Section 1.05 QUALITY ASSURANCE.
3. Alternate manufacturers shall provide documentation that the power-coat system being provided meets or exceeds the ICON supplied powder-coat system listed under Section 2.01(c)(8).

C. PRODUCT REQUIREMENTS AND MATERIALS:

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1. GENERAL:
   a. The pre-engineered and pre-fabricated package of parts shall be pre-cut and packaged unless noted otherwise. These packages will include all parts and pieces necessary to field assemble the shelter at the jobsite. The shelter shall be shipped in knocked down format to minimize shipping expenses. Field labor will be kept to a minimum with no on-site welding required.
2. CONCRETE FOR FOUNDATIONS:
   a. Concrete shall have a minimum 28-day compressive strength of 2,500 psi unless noted otherwise on the foundation detail.
   b. Reinforcing steel shall be ASTM A615, Grade 60.
3. COLUMNS:
   a. Hollow Structural Section (HSS) columns shall meet ASTM A500, Grade B with a minimum wall thickness of 3/16" (0.1875").
   b. Unless the columns are direct buried in the foundation the columns shall attach to the foundation with a minimum of four (4) anchor rods and shall meet OSHA Steel Erection Standard 29 CFR 1926.755(a)(1).
4. STRUCTURAL FRAMING:
   a. All Hollow Structural Sections (HSS) shall meet ASTM A500, Grade B.
   b. Wide flange beams, tapered columns or open channel sections shall meet ASTM A36.
5. COMPRESSION RINGS:
   a. Compression rings shall be made of ASTM A36 structural plate or of structural channel welded together to form the ring. All connections not requiring compression rings shall use ASTM A500, Grade B HSS sections for these connections.
6. CONNECTION REQUIREMENTS:
   a. Anchor rods shall be ASTM F1554, Grade 36 unless otherwise noted.
   b. Structural fasteners shall be ASTM A325 high strength bolts and A563 nuts.
   c. All structural fasteners shall be hidden within the framing members whenever possible.
   d. No field welding shall be required to finish the construction of the shelter.
7. ROOFING MATERIALS:
8. 1/8" 5052 Aluminum Laser Cut Panels
9. FACTORY FRAME FINISH:
   a. COASTAL FACTORY FRAME FINISH:
      1) All structural steel shall be cleaned, pre-treated and finished in the following manner:
      2) The steel shall be shot-blasted to the specification of SSPC-SP10 near white blast cleaning. SSPC-SP2 hand tool cleaning will not be an acceptable alternative.
      3) The shot-blasted parts are then washed with zinc-phosphate in an eight (8) stage washer.
      4) The steel is then immersed in a liquid epoxy and coated through an electro-deposition process (E-coat).
      5) The parts are then coated with two coats of TGIC Super durable polyester powder of 8 to 12 mils.
10. ACCESSORIES
    a. ELECTRICAL ACCESS
       1) Standard in all column bases is a 3" diameter hole, located in the center of the plate. This allows electrical wiring into the column base.

PART 3 - EXECUTION

3.01 STORAGE AND HANDLING

A. When the shelter arrives at the jobsite protect the products from weather, sunlight and damage.

B. When unloading, pad the forks and use other precautions to protect the powder-coated finish. Do not use chains to move the materials, use straps. Handle all materials carefully in the field to avoid scratching the powder-coat finish.

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C. Contractor shall store the product elevated from the soil to allow full air circulation around the materials as to not introduce mold, decay, fungi or insects into or on the materials. One end of the materials shall be elevated higher than the other end if storage will be longer than a few days as to allow the water to run off the materials.

3.02 INSTALLATION OF MATERIALS

A. The shelter shall be placed on prepared foundations that were designed by the manufacturer (unless otherwise noted). Materials for these foundations are not supplied by ICON but by the foundation installation contractor. Foundation shall be constructed to all local building code requirements and per good construction practices for the specific site conditions.
   1. In accordance with OSHA Steel Erection Standard 29 CFR 1926.750 Part R, anchor rods shall be installed for proper column stability and shall have a minimum of four (4) anchor bolts per column. Therefore, no single anchor rod column base connections shall be allowed.

B. The contractor shall install all parts and pieces per the manufacturer's supplied installation instructions and these specifications.

C. The interface with other work required is to be coordinated by the customer or the customer's agent. Some design may have electrical or plumbing requirements that are not supplied by ICON.

D. Tolerances on structural steel members are set according to AISC Code of Standard Practice for Steel Buildings and Bridges and have been used for the fabrication of this product. These tolerances will not and cannot be increased. No field slotting or opening of holes will be allowed without proper guidance from the ICON Engineering Department.

3.03 REPAIR

A. No field modifications or corrections are allowed without authorization from the ICON Engineering Department.

3.04 SITE QUALITY CONTROL

A. ICON does not require any on-site inspections or testing but these may be required by local authorities and the local building inspector. Please be aware of any on-site requirements prior to starting installation.

END OF SECTION 10 73 16.15

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PROJECT GENERAL NOTES

DRAWINGS ARE NOT TO BE SCALED. DIMENSIONS ARE PROVIDED TO INDICATE DESIGN INTENT ONLY.

THE CONTRACTOR SHALL:

1. COORDINATE THE WORK OF ALL TRADES AND THE OWNER'S REQUIREMENTS FOR ALL WORK INDICATED IN THESE CONTRACT DOCUMENTS AND ASSUME FINAL RESPONSIBILITY FOR ALL CONSTRUCTION COORDINATION.
2. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, ETC. AT THE SITE. REPORT ANY DISCREPANCIES TO THE ARCHITECT IN WRITING PRIOR TO CONSTRUCTION. CONTRACTOR SHALL ALSO COORDINATE WORK WITH THE WORK OF OTHER TRADES.
3. BE RESPONSIBLE FOR ALL DEMOLITION AS REQUIRED FOR COMPLETION OF THE PROJECT. REMOVE ALL DEMOLISHED MATERIALS, NOT DESIGNED FOR REUSE, FROM THE PREMISES. EXISTING CONDITIONS DISTURBED BY ALTERATION WORK SHALL BE PATCHED, REPAIRED, OR REPLACED TO MATCH EXISTING CONDITIONS & FINISHES TO A LIKE NEW CONDITION. REMOVE ALL DEBRIS FROM THE SITE DURING CONSTRUCTION PROCESS & LEAVE THE PREMISES CLEAN, NEAT AND ORDERLY AT THE COMPLETION OF THE PROJECT.
4. PERFORM ALL WORK SHOWN ON THESE DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE.
5. OBTAIN ALL PERMITS, INSPECTIONS AND CERTIFICATES NECESSARY FOR OCCUPANCY, TEMPORARY CERTIFICATE OF OCCUPANCY (T.C.O.) OR C. OF O. IS A PREREQUISITE FOR PUNCHLIST PREPARATION.
6. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL APPLICABLE CODES, LAWS, RULES, AND REGULATIONS OF ALL CONSTITUTED AUTHORITIES HAVING JURISDICTION.
7. CAP & IDENTIFY ALL EXISTING UTILITIES PRIOR TO DEMOLITION IN THE CONSTRUCTION AREAS.
8. PREPARE COORDINATION DRAWINGS OF ALL TRADES PRIOR TO ORDERING ANY AND/OR ALL MATERIALS INCLUDING LEAD ITEMS.
9. VERIFY ALL NEW MATERIALS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S LATEST PRINTED SPECIFICATIONS AND CODE REQUIREMENTS.
10. SUBMIT SHOP DRAWINGS OF ALL ITEMS, MATERIAL SAMPLES AND EQUIPMENT CUT-SHEET. SHOP DRAWINGS SHALL INCLUDE DETAILED FABRICATION AND ERECTION DRAWINGS, SETTING DRAWINGS, DIAGRAMMATIC DRAWINGS AND MATERIAL. ALL ITEMS SHALL BE CLEARLY INDICATED. FABRICATION SHALL BEGIN ONLY AFTER RECEIVING APPROVED SHOP DRAWINGS.
11. PROVIDE PROPER PROTECTION FOR ALL EXISTING WORK, FURNITURE, MATERIALS, EQUIPMENT, AND FIXTURES WHICH ARE LIKELY TO BE DAMAGED DURING CONSTRUCTION. THE EXISTING STRUCTURAL SYSTEM SHALL ALSO BE PROTECTED AND STRUCTURAL INTEGRITY MAINTAINED. TEMPORARY PARTITIONS TO SEPARATE WORK AREAS FROM OCCUPIED AREAS SHALL BE PROVIDED TO PREVENT THE SPREAD OF DUST, MOISTURE, AND OTHER CONSTRUCTION DEBRIS.
12. BE RESPONSIBLE FOR MAINTAINING THE SECURITY OF THE BUILDING THROUGHOUT THE PROJECT TO FINAL COMPLETION AND OWNER'S ACCEPTANCE. COOPERATE WITH BUILDING OWNER ON SECURITY PROCEDURES.
13. VERIFY REQUIREMENTS FOR FIRE EXTINGUISHER LOCATIONS AND INSTALLATION, PER REQUIREMENTS OF THE LOCAL FIRE MARSHALL.
14. PERFORM ALL WORK SHOWN ON THESE DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE.

CONSTRUCTION STAGING NOTES

1. THE STAGING AREA CAN BE USED FOR LOCATION OF DUMPSTER, STORAGE, ETC. COORDINATE ON-SITE LOCATION AND USAGE OF STAGING AREA WITH OWNERS REPRESENTATIVE OF THE EDUCATIONAL SERVICES OF NEW JERSEY REPRESENTATIVE & ARCHITECT PRIOR TO DELIVERY OF CONSTRUCTION TRAILERS AND DUMPSTERS. OWNER WILL NOT BE RESPONSIBLE FOR STORED ITEMS. KEEP ALL DUMPSTERS, EQUIPMENT, MATERIAL 15'-0" MIN. OFF OF BUILDING FACE. CONTRACTOR TO SECURE ALL REQUIRED PERMITS AT NO ADDITIONAL COST TO THE OWNER. APPROXIMATE AREA TO BE ±15'-0" X 30'-0". STORED ITEMS TO BE ENCLOSED IN A 8'-0" HIGH CHAIN LINK FENCE WITH LOCK AND CHAIN. CONTRACTOR TO PROVIDE ADDITIONAL KEY TO DISTRICT REPRESENTATIVE. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGED LANDSCAPING, SIDEWALKS, PAVEMENT, ETC.
2. INSTALL 8-FOOT HIGH TEMPORARY CONSTRUCTION SECURITY FENCING AROUND THE PERIMETER OF ALL CONSTRUCTION AREAS TO PROTECT THE GENERAL PUBLIC. NO EXACT AMOUNT OF FENCING IS SHOWN IN THE DRAWINGS AND THE OWNER RESERVES THE RIGHT TO REQUIRE AS MUCH FENCING AS NEEDED TO MAINTAIN CONSTRUCTION SITE SAFETY AND SECURITY. AS A MINIMUM, THE CONTRACTOR SHALL PROVIDE ENOUGH TEMPORARY CONSTRUCTION FENCING TO ENCOMPASS THE ENTIRE LIMIT OF DISTURBANCE AS NOTED ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN. ALL ACTIVE WORK AREAS SHALL BE FENCED TO PREVENT PUBLIC ACCESS UNTIL SUCH TIME AS ALL SURFACES ARE RESTORED TO A SAFE AND UNIFORMLY GRADED CONDITION.
3. CONTRACTOR PARKING AND STORAGE MATERIAL MUST BE COORDINATED WITH THE OWNER AFTER AWARD OF PROJECT.
4. THE CONDITION OF THE STAGING AREA MUST BE LEFT IN THE SAME CONDITION AS EXISTS PRIOR TO CONSTRUCTION. ANY SEEDING, PAVING, AND / OR RESTORATION WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

ADDITIONAL NOTES

GEOTECHNICAL (SOILS) ENGINEER AND MATERIAL TESTING / INSPECTIONS:
THE CONTRACTOR SHALL:

1. ENGAGE A GEOTECHNICAL ENGINEER TO OVERSEE ALL EXCAVATION, DEMOLITION AND EARTHWORK. THE GEOTECHNICAL ENGINEER SHALL CERTIFY THAT ALL SOILS HAVE BEEN PROPERLY COMPACTED AND STABILIZED. REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR MORE INFORMATION.
2. ENGAGE A MATERIALS TESTING AND INSPECTION COMPANY TO OVERSEE ALL DAILY CONSTRUCTION WORK, PREPARE DAILY REPORTS AND TEST THE MATERIALS USED IN THE PROJECT. REFER TO CIVIL DRAWINGS AND CIVIL DRAWINGS FOR MORE INFORMATION.
3. SUBMIT TO THE ARCHITECT AND ENGINEER WATER PERMEABILITY TESTING OF PREPARED SUBBASES STONE MATERIAL TO DOCUMENT ADEQUATE PERMEABILITY. REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR MORE INFORMATION.

PRIVATE UNDERGROUND UTILITY UNDERGROUND MARK OUT COMPANY:
THE CONTRACTOR SHALL:

1. ENGAGE A PRIVATE UNDERGROUND UTILITY LOCATING SERVICE TO VERIFY THE LOCATION OF UNDERGROUND UTILITIES AND DRAINAGE PIPING WITHIN THE ENTIRE AREA OF DISTURBANCE, PLUS 50 FEET BEYOND ALL DIRECTIONS, AS INDICATED ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN. THE NJ ONE CALL SERVICE MAY NOT PERFORM A MARK-OUT WITHIN THE SCHOOL SITE, THEREFORE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERTAKE THIS WORK. MAINTAIN THE UNDERGROUND UTILITY MARK-OUT THROUGHOUT CONSTRUCTION. REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR MORE INFORMATION.

LAND SURVEYOR:
THE CONTRACTOR SHALL:

1. ENGAGE A NJ LICENSED PROFESSIONAL LAND SURVEYOR TO TAKE MEASUREMENTS AND PERFORM PERIODIC CONTROL SURVEYS AS NEEDED THROUGHOUT THE DURATION OF THE PROJECT TO CONFIRM THAT ALL WORK IS BEING CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ALL SURVEY WORK (CONSTRUCTION STAKE OUT, INTERIM TOPOGRAPHIC SURVEYS, AS-BUILT SURVEYS, ETC.) REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR MORE INFORMATION.
2. SUBMIT A NJ LICENSED SIGNED AND SEALED AS-BUILT SURVEY TO THE ARCHITECT AS EXPLAINED IN THE PROJECT SPECIFICATIONS. REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR MORE INFORMATION.

PLAYGROUND:
THE CONTRACTOR SHALL:

1. COORDINATE AND VERIFY THE FINAL LOCATIONS OF THE PLAYGROUND EQUIPMENT FOOTINGS DO NOT CONFLICT WITH NEW UNDERDRAINS FOR THE PLAYGROUND AREA, IF APPLICABLE. REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR MORE INFORMATION.
2. NOT PROCEED WITH THE PLAYGROUND SURFACE INSTALLATION UNTIL ALL APPLICABLE SITE WORK, INCLUDING SUBBASE PREPARATION, DRAINAGE COURSE, CONCRETE WORK, PLAYGROUND EQUIPMENT INSTALLATION, AND OTHER RELEVANT WORK, HAS BEEN COMPLETED.
3. INSTALL ALL GROUND SURFACES IN ACCESSIBLE AREAS IN COMPLIANCE WITH ICC / ANSI 117.1 CHAPTER 1108.4.1.6 USE ZONES NEED TO COMPLY WITH ASTM F-1292.

SYMBOLS

- MULTI-ELEVATION MARKER — Elevation Number, Sheet Number
- SINGLE ELEVATION MARKER — Elevation Number, Sheet Number
- DETAIL MARKER — Detail Number, Sheet Number
- SECTION MARKER — Section Number, Sheet Number
- COLUMN GRID INDICATOR
- LEVEL TAG
- SPOT ELEVATION
- ROOM MARKER — Room Number, Room Name, Ceiling Height, Room Occupancy, Room Area
- NEW PARTITION TYPE
- REVISION MARKER
- DRAWING KEY NOTE
- NEW WINDOW TAG

ABBREVIATIONS

A.F.F.	Above Finished Floor
ALUM.	Aluminum
A.N.S.I.	American National Standards Institute
B.F.	Barrier Free
BLDG.	Building
CLG.	Ceiling
℄	Centerline
C.O.	Certificate of Occupancy
CLR.	Clear
COL.	Column
CONC.	Concrete
C.J.	Control Joint
ED	Edition
EQ	Equal
ETC.	Etcetera
EXIST.	Existing
F.E.C.	Fire Extinguisher Cabinet
G.C.	General Contractor
G.W.B.	Gypsum Wall Board
H.P.	High Point
H.V.A.C.	Heating Ventilating Air Conditioning
L.F.	Linear Footage
MAX.	Maximum
MTL.	Metal
MIN.	Minimum
N.A.	Not Applicable
N.D.L.	No Dollar Limit
N.I.C.	Not in Contract
NJUCC	New Jersey Uniform Construction Code
N.T.S.	Not To Scale
O.C.	On Center
P.T.	Pressure Treated
PTD.	Painted
REQ'D.	Required
R.O.	Rough Opening
S.F.	Square Foot (Feet)
S.S.	Stainless Steel
TYP.	Typical
U.O.N.	Unless Otherwise Noted
U.N.O.	Unless Noted Otherwise
U.V.	Unit Ventilator
VCT.	Vinyl Composition Tile
V.I.F.	Verify in Field

MAIN TITLE

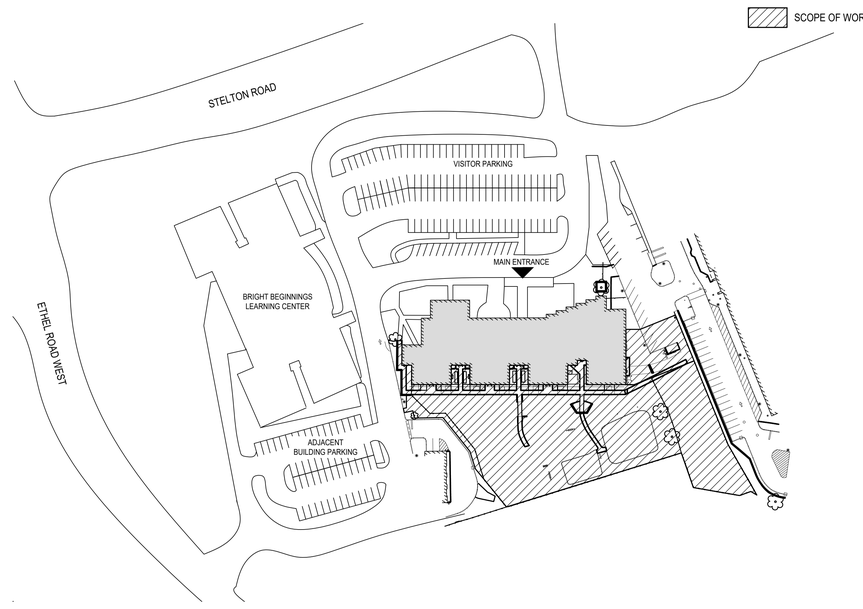
PROPOSED IMPROVEMENTS FOR EDUCATIONAL SERVICES COMMISSION OF NEW JERSEY:

PISCATAWAY OUTDOOR PLAY AREA

SITE PLAN

NORTH

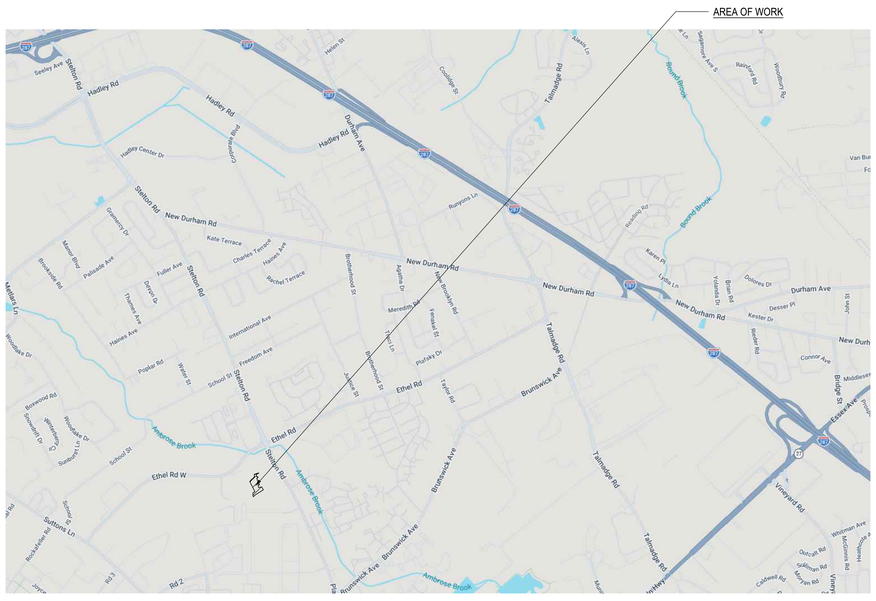
SCALE: N.T.S



AERIAL MAP

NORTH

SCALE: N.T.S



CODE DATA

NJUCC:	NEW JERSEY UNIFORM CONSTRUCTION CODE
NJIBC:	INTERNATIONAL BUILDING CODE 2021 NJ ED.
REHABILITATION CODE:	ALTERATION NJAC 5:23-6
USE GROUP:	EDUCATION, BUSINESS
TYPE OF CONSTRUCTION:	III-B
ACCESSORY BUILDING:	V-B
SPRINKLER:	YES
BUILDING GROSS SQUARE FOOTAGE (EXISTING):	±30,130 S.F.
BUILDING AREA AFFECTED BY CONSTRUCTION:	±3,280 S.F.
ACCESSORY BUILDING FOOT PRINT (PROPOSED):	±670 S.F.

ALL WORK SHALL CONFORM TO ALL RULES AND REGULATIONS OF MIDDLESEX COUNTY, EDUCATIONAL SERVICES COMMISSION OF NEW JERSEY AND ALL GOVERNING AUTHORITIES HAVING JURISDICTION. THIS INCLUDES BUT IS NOT LIMITED TO: FIRE CODES, BUILDING AND CONSTRUCTION CODES, CONTROLLED INSPECTIONS, MATERIAL TESTING, LABOR LAW, AND ZONING AND HEALTH REGULATIONS.

LISTED BELOW ARE THE CURRENT ADOPTED CODES UNDER THE NEW JERSEY STATE UNIFORM CONSTRUCTION CODE (U.C.C.):

N.J.A.C.	5:23-3.14 - BUILDING SUBCODE - INTERNATIONAL BUILDING CODE, NJ ED.	2021
N.J.A.C.	5:23-3.15 - PLUMBING SUBCODE - NATIONAL STANDARD PLUMBING CODE, NJ ED.	2021
N.J.A.C.	5:23-3.16 - ELECTRICAL SUBCODE - NATIONAL ELECTRICAL CODE (NFPA 70)	2020
N.J.A.C.	5:23-3.18 - ENERGY SUBCODE - ASHRAE 90.1 (COMMERCIAL)	2019
N.J.A.C.	5:23-3.20 - MECHANICAL SUBCODE - INTERNATIONAL MECHANICAL CODE	2021
N.J.A.C.	5:23-3.22 - FUEL GAS SUBCODE - INTERNATIONAL FUEL GAS CODE	2021
N.J.A.C.	5:23-6 - REHABILITATION SUBCODE	NJUCC SUBCHAPTER 6
N.J.A.C.	5:23-7 - BARRIER FREE SUBCODE	2021
	(CHAPTER 11 OF NJ IBC & STANDARD ICC A117.1-2017 ED.)	2017
N.J.A.C.	5:23-11 - PLAYGROUND SAFETY SUBCODE (HANDBOOK FOR PUBLIC PLAYGROUND SAFETY)	2010

ANY WORK WHICH DEVIATES FROM SUCH STANDARDS SHALL BE RECTIFIED TO THE SATISFACTION OF THE GOVERNING AUTHORITY. THE REQUIREMENTS OF GOVERNING AUTHORITIES SHALL SUPERSEDE THE DRAWINGS AND SPECIFICATIONS IN ALL CASES. THE ARCHITECT SHALL BE NOTIFIED BY WRITTEN CHANGE ORDER BEFORE SUCH WORK IS STARTED. NON-FAMILIARITY WITH GOVERNING RULES AND REGULATIONS SHALL NOT BE CAUSE FOR AN EXTRA CHARGE IN THE EVENT THAT WORK MUST BE REPLACED FOR NONCOMPLIANCE.

LIST OF DRAWINGS

GENERAL:	
T1.01	TITLE SHEET
T1.02	PHASING PLAN
T1.03	CODE AND ZONING REVIEW
CIVIL:	
C-1.0	EXISTING CONDITIONS
C-2.0	DEMOLITION PLAN
C-3.0	SITE LAYOUT PLAN
C-4.0	SITE GRADING PLAN
C-5.0	UTILITY PLAN
C-6.0	LANDSCAPE PLAN
C-7.0	SOIL EROSION AND SEDIMENT CONTROL PLAN
C-7.1	SOIL EROSION AND SEDIMENT CONTROL PLAN
C-8.0	DETAILS
C-8.1	DETAILS
C-8.2	DETAILS
C-8.3	DETAILS
STRUCTURAL:	
S0.01	STRUCTURAL NOTES AND DESIGN CRITERIA
S0.02	SPECIAL INSPECTION NOTES AND SCHEDULES
S1.01	FOUNDATION AND ROOF FRAMING PLANS
ARCHITECTURAL:	
A1.01	OVERALL CONSTRUCTION PLAN
A1.02	PARTIAL CONSTRUCTION PLAN I
A1.03	PARTIAL CONSTRUCTION PLAN II
A1.04	PARTIAL CONSTRUCTION PLAN III
A1.05	PARTIAL CONSTRUCTION PLAN IV
A1.06	COURTYARD CONSTRUCTION PLAN
A1.07	AWNING ELEVATIONS AND DETAILS
A2.01	FIELD HOUSE CONSTRUCTION PLANS
A2.02	FIELD HOUSE ELEVATIONS AND SECTIONS
A2.03	FIELD HOUSE WALL SECTIONS I
A2.04	FIELD HOUSE WALL SECTIONS II
A3.01	BARRIER FREE TYPICAL DETAILS
A3.02	DOOR SCHEDULE AND WALL TYPE DETAILS
A3.03	FIELD HOUSE ROOF DETAILS I
A3.04	FIELD HOUSE ROOF DETAILS II
A3.05	FENCE AND GATE DETAILS
A3.06	MISCELLANEOUS DETAILS
ELECTRICAL:	
E-001	ELECTRICAL GENERAL NOTES AND SYMBOL LIST
ED-101	BASEMENT DEMOLITION PLAN
E-101	ELECTRICAL NEW WORK PLAN
E-102	ELECTRICAL NEW WORK SITE PLAN
E-103	IT DATA NEW WORK SITE PLAN
E-201	ONE LINE DIAGRAM AND SCHEDULES
PLUMBING:	
P-001	GENERAL NOTES AND SYMBOL LIST
P-101	PLUMBING FLOOR PLAN
P-102	PLUMBING SITE PLAN
P-103	PLUMBING ENLARGE PLAN

LIST OF ALTERNATES

ALTERNATE #01 - THE SCOPE OF THIS ALTERNATE INCLUDES, BUT IS NOT LIMITED TO, PROVIDING FENCE SLATS AT ENTIRE PERIMETER OF NEW CHAIN LINK FENCE WHERE INDICATED ON THE CONSTRUCTION DRAWINGS.

PSA Beyond Architecture

Parette Somjen Architects

A LIMITED LIABILITY CORPORATION
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PROPOSED IMPROVEMENTS FOR EDUCATIONAL SERVICES COMMISSION OF NEW JERSEY:

PISCATAWAY OUTDOOR PLAY AREA

1670 STELTON ROAD,
PISCATAWAY, NJ, 08854
BLOCK: 9201 LOT: 46.12

1 06/15/26 ADDENDUM #01
Δ 05/29/26 ISSUED FOR BIDDING

REV	DATE	REMARK

- Gregory J. Somjen A.I.A., CID
  - Connecticut Architect 8622
  - Delaware Architect 6116
  - Massachusetts Architect 9629
  - NCARB Registration 47178
  - New Jersey Architect 13349
  - New York Architect 32435
  - North Carolina Architect 16879
- William H. Bannister, A.I.A. LEEDap
  - Connecticut Architect 14499
  - NCARB Registration 96145
  - New Jersey Architect 19142
  - New York Architect 47812
  - North Carolina Architect 15027
  - Pennsylvania Architect RA409555
  - South Carolina Architect 10382
- Richard J. Trautwein, A.I.A.
  - New Jersey Architect 12199

SIGNATURE

TITLE SHEET

THE SCALE REPRESENTED ON THESE DRAWINGS IS ONLY VALID IF THE DRAWING IS 42" x 30". DRAWINGS WHICH ARE NOT PLOTTED AT THE SPECIFIED SHEET SIZE ARE NOT TO SCALE.

10552	SHEET NUMBER: 1 T1.01
PROJECT NUMBER	
05/29/2026	
RELEASE DATE	
TFB	AR / KG — RT
PROJECT MANAGER:	DRAWN BY: — CHECKED BY:

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PHASE 1 NOTES:

*THESE NOTES ARE SPECIFIC TO THIS ONLY.

APPROXIMATE DURATION:
- 07/17/2026 - 08/14/2026

GENERAL GOALS:
- MOBILIZATION.
- STAGING.
- DEMOLISH EXISTING WALKWAY.
- PROVIDE NEW WALKWAY TO EXISTING 5-12 PLAYGROUND.
- NEW RESILIENT DRAINABLE SURFACE AT 5-12 PLAYGROUND AND SWING AREA.
- INSTALL TEMPORARY CONSTRUCTION, PROTECTION, SIGNAGE.
- COMPLETION OF SPLASH PAD AREA CLEANUP.

PHASE 2 NOTES:

*THESE NOTES ARE SPECIFIC TO THIS ONLY.

APPROXIMATE DURATION:
- 08/14/2026 - 11/20/2026

GENERAL GOALS:
- COMPLETE ALL WALKWAY PATH.
- BIO RETENTION BASIN.
- AMPHITHEATER SEATING AND STAGING AREA.

NOTE A:
CONTRACTOR TO PROVIDE NEW 6-FOOT HIGH TEMPORARY CONSTRUCTION SECURITY FENCING WITH GATES AND LOCKING SYSTEM AS OUTLINED FOR PHASE #2 ONWARD. NO EXACT AMOUNT OF FENCING IS SHOWN IN DRAWINGS; THE PLAN LAYOUT AND GATES AS NEEDED IS DIAGRAMMATIC ONLY. OWNER RESERVES THE RIGHT TO REQUIRE AS MUCH FENCING AND GATES AS NEEDED TO MAINTAIN CONSTRUCTION SITE SAFETY AND SECURITY. PROVIDE FENCE FABRIC AT FENCING ADJACENT TO HIGH TRAFFIC PEDESTRIAN AND VEHICULAR AREAS. THE INTENT IS FOR THE CLIENT TO HAVE ACCESS TO THE EXISTING PLAYGROUND WHILE PHASE #2 AND #3 ARE SIMULTANEOUSLY TAKING PLACE.

PHASE 3 NOTES:

*THESE NOTES ARE SPECIFIC TO THIS ONLY.

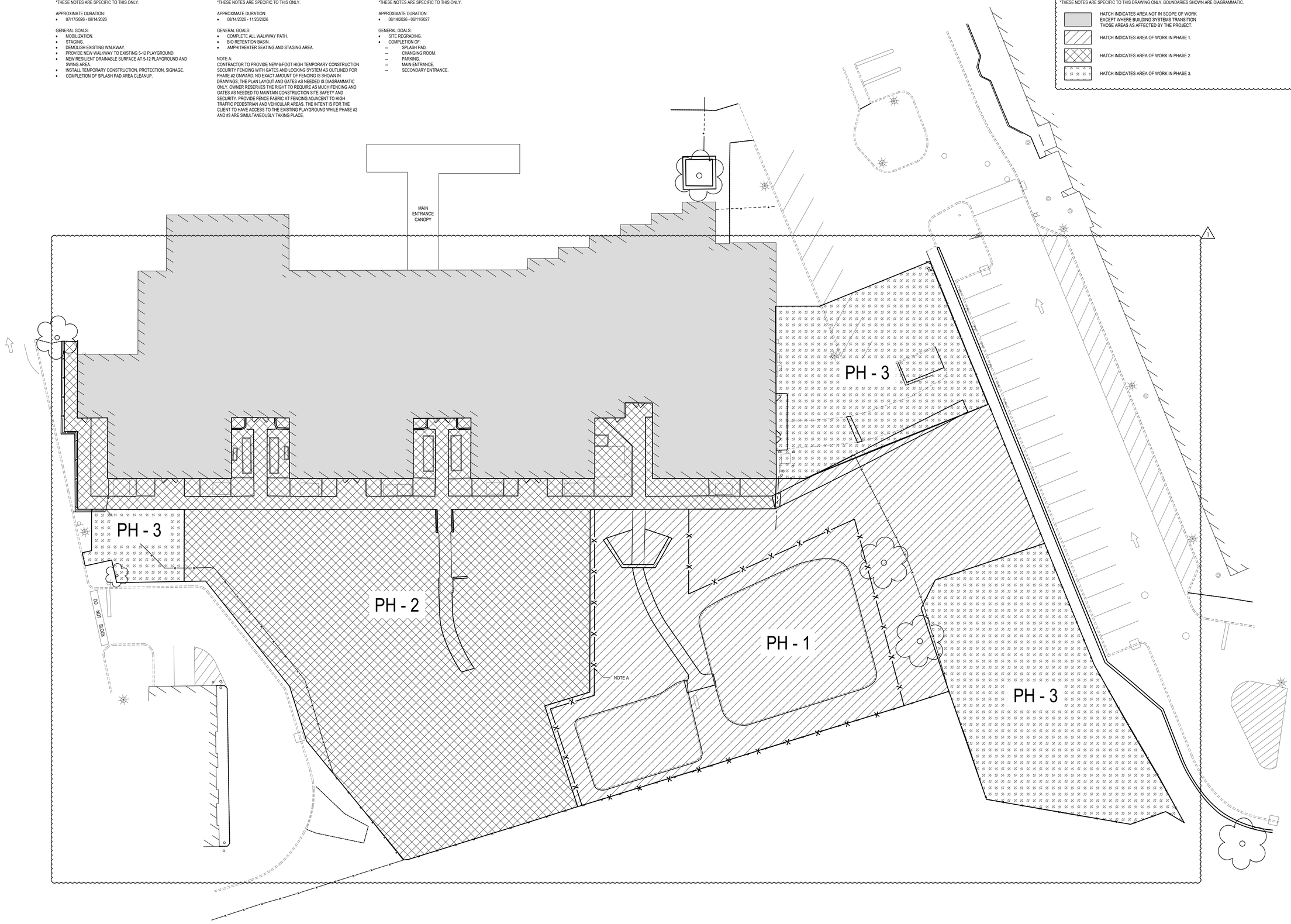
APPROXIMATE DURATION:
- 08/14/2026 - 06/11/2027

GENERAL GOALS:
- SITE REGRADING.
- COMPLETION OF:
  - -- SPLASH PAD.
  - -- CHANGING ROOM.
  - -- PARKING.
  - -- MAIN ENTRANCE.
  - -- SECONDARY ENTRANCE.

PHASING SYMBOL LEGEND

*THESE NOTES ARE SPECIFIC TO THIS DRAWING ONLY. BOUNDARIES SHOWN ARE DIAGRAMMATIC.

- HATCH INDICATES AREA NOT IN SCOPE OF WORK EXCEPT WHERE BUILDING SYSTEMS TRANSITION THOSE AREAS AS AFFECTED BY THE PROJECT.
- HATCH INDICATES AREA OF WORK IN PHASE 1.
- HATCH INDICATES AREA OF WORK IN PHASE 2.
- HATCH INDICATES AREA OF WORK IN PHASE 3.



1 **OVERALL EXISTING SITE PLAN**
SCALE: 1/16" = 1'-0"

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  - South Carolina Architect 10382
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SIGNATURE

PHASING PLAN

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10552	SHEET NUMBER 1 T1.02
PROJECT NUMBER	
05/29/2026	
RELEASE DATE	
TFB	KG / RT
PROJECT MANAGER:	DRAWN BY: / CHECKED BY:

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CODE

2021 INTERNATIONAL BUILDING CODE - NEW JERSEY EDITION

CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION

E EDUCATIONAL (305.1)
EDUCATION GROUP "E" OCCUPANCY INCLUDES, AMONG OTHERS, THE USE OF A BUILDING OR STRUCTURE, OR PORTION THEREOF, BY SIX OR MORE PERSONS AT ANY ONE TIME FOR EDUCATIONAL PURPOSES THROUGH THE 12TH GRADE.

CHAPTER 6 - TYPES OF CONSTRUCTION

TABLE 601 - FIRE RESISTANT RATING OF BUILDING ELEMENTS

BUILDING ELEMENTS	TYPE I		TYPE II		TYPE III		TYPE IV				TYPE V	
	A	B	A	B	A	B	A	B	C	HT	A	B
PRIMARY STRUCTURAL FRAME	3_a, b	$2_{a, b, c}$	$1_{b, c}$	0_c	$1_{b, c}$	0	3_a	2_a	2_a	HT	$1_{b, c}$	0
BEARING WALLS:												
EXTERIOR (NA)	3	2	1	0	2	2	3	2	2	2	1	0
INTERIOR	3_a	2_a	1	0	1	0	3	2	2	$1/HT_g$	1	0
NONBEARING WALLS AND PARTITIONS EXTERIOR	SEE TABLE 705.5											
NONBEARING WALLS AND PARTITIONS INTERIOR	0	0	0	0	0	0	0	0	0	SEE SECTION 2304.11.2	0	0
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY STRUCTURAL MEMBERS	2	2	1	0	1	0	1	0	1	HT	1	0
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY STRUCTURAL MEMBERS	1 1/2b	$1_{b, c}$	$1_{b, c}$	0_c	$1_{b, c}$	0	$1_{b, c}$	0	$1_{b, c}$	HT	$1_{b, c}$	0

FOR SI: 1 FOOT = 304.9 MM.

a. ROOF SUPPORTS = FIRE-RESISTANCE RATINGS OF PRIMARY STRUCTURAL FRAME AND BEARING WALLS ARE PERMITTED TO BE REDUCE BY 1 HOUR WHERE SUPPORTING A ROOF ONLY.
b. EXCEPT IN GROUP F-1, H, M AND S-1 OCCUPANCIES, FIRE PROTECTION OF STRUCTURAL MEMBERS IN ROOF CONSTRUCTION SHALL NOT BE REQUIRED, INCLUDING PROTECTION OF PRIMARY STRUCTURAL FRAME MEMBERS, ROOF FRAMING AND DECKING WHERE EVERY PART OF THE ROOF CONSTRUCTION IS 20 FEET OR MORE ABOVE ANY FLOOR OR MEZZANINE IMMEDIATELY BELOW. FIRE-RETARDANT TREATED WOOD MEMBERS SHALL BE ALLOWED TO BE USED FOR SUCH UNPROTECTED MEMBERS.
c. IN ALL OCCUPANCIES, HEAVY TIMBER COMPLYING WITH SECTION 2304.11 SHALL BE ALLOWED FOR ROOF CONSTRUCTION, INCLUDING PRIMARY STRUCTURAL FRAME MEMBERS, WHERE A 1-HOUR OR LESS FIRE-RESISTANCE RATING IS REQUIRED
d. NOT LESS THAN THE FIRE-RESISTANCE RATING REQUIRED BY OTHER SECTIONS OF THIS CODE.
e. NOT LESS THAN THE FIRE-RESISTANCE RATING BASED ON FIRE SEPARATION DISTANCE (SEE TABLE 705.5).
f. NOT LESS THAN THE FIRE-RESISTANCE RATING AS REFERENCED IN SECTION 704.9.
g. HEAVY TIMBER BEARING WALLS SUPPORTING MORE THAN TWO FLOORS OR MORE THAN A FLOOR AND A ROOF SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 1 HOUR.

CHAPTER 7 - FIRE AND SMOKE PROTECTION FEATURES

TABLE 705.5 - FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE

FIRE SEPERATION DISTANCE = X(feet)	TYPE OF CONSTRUCTION	OCCUPANCY GROUP H	OCCUPANCY GROUP F-1, M, S-1	OCCUPANCY GROUP A, B, E, F-2, I, R, S-2
X < 5	ALL	3	2	1
5≤ X < 10	IA, IVA	3	2	1
	OTHERS	2	1	1
10≤ X < 30	IA, IB, IVA, IVB	2	1	1
	IIB, VB	1	0	0
	OTHERS	1	1	1
X≥ 30	ALL	0	0	0

TABLE 705.8 - MAXIMUM AREA OF EXTERIOR WALL OPENINGS BASED ON FIRE SEPARATION DISTANCE AND DEGREE OF OPENING PROTECTION

OCCUPANCY		
10 to less than 15	Unprotected, Nonsprinklered (UP,NS)	15%

OPEN AREA CALCULATION
PERMITTED:15%
DESIGNED = 44'X9' = 396SF OF WALL X 15% = 59.4SF PERMITTED OPENING
DESIGNED: 29'X1' = 29SF (complies)

BULK REQUIREMENTS

	ZONE	MAXIMUM HEIGHT		MINIMUM YARD SETBACKS			MAXIMUM COVERAGE OF BUILDING % OF LOT AREA
	GB	PRINCIPAL BUILDING	ACCESSORY STRUCTURE	FRONT	REAR	EACH SIDE	
REQUIRED		40'	18'	PB: 25'	20'	8'	60%
PROPOSED		NO CHANGE	12.4'	NO CHANGE	NO CHANGE	10'	8.02%

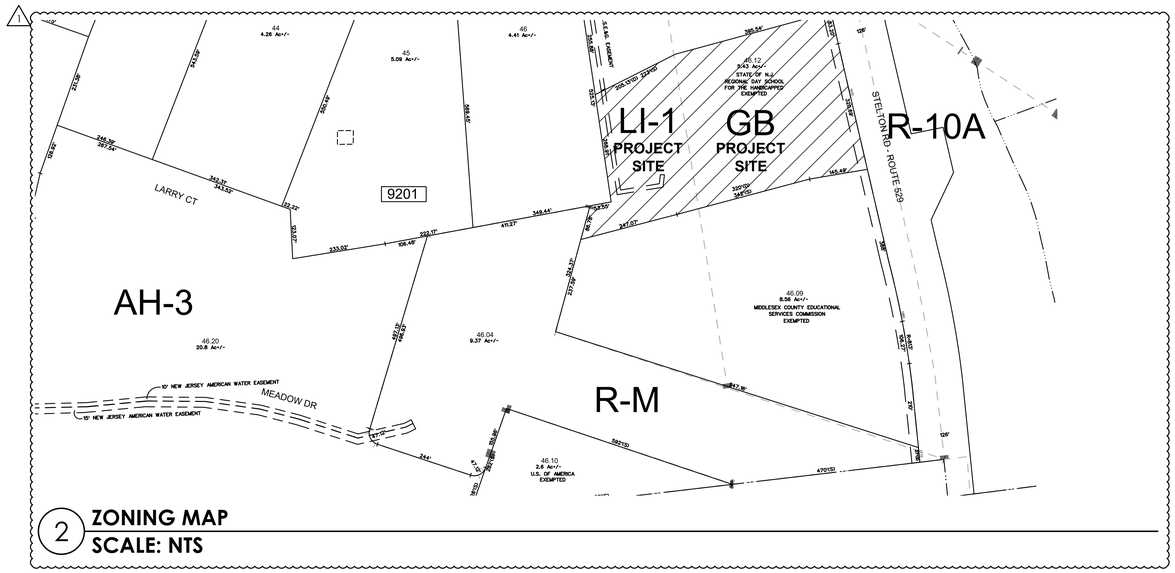
	ZONE	PRINCIPAL BUILDING	ACCESSORY STRUCTURE	MINIMUM YARD SETBACKS			MAXIMUM COVERAGE OF BUILDING % OF LOT AREA
	LI-1			FRONT	REAR	EACH SIDE	
REQUIRED		40'	25'	PB: 50'	20'	25'	35 %
PROPOSED		NO CHANGE	12.4'	NO CHANGE	NO CHANGE	N/A	8.02%

BUILDING COVERAGE	
EXISTING PRINCIPAL BUILDING	28,486 SF
PROPOSED ACCESSORY BUILDING	810 SF
LOT AREA	364,964 SF

ZONING



1 **ZONING AREA MAP**
SCALE: NTS



2 **ZONING MAP**
SCALE: NTS

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  - New Jersey Architect 19142
  - New York Architect 47812
  - North Carolina Architect 15027
  - Pennsylvania Architect RA409555
  - South Carolina Architect 10382
- Richard J. Trautwein, A.I.A.
  - New Jersey Architect 12199

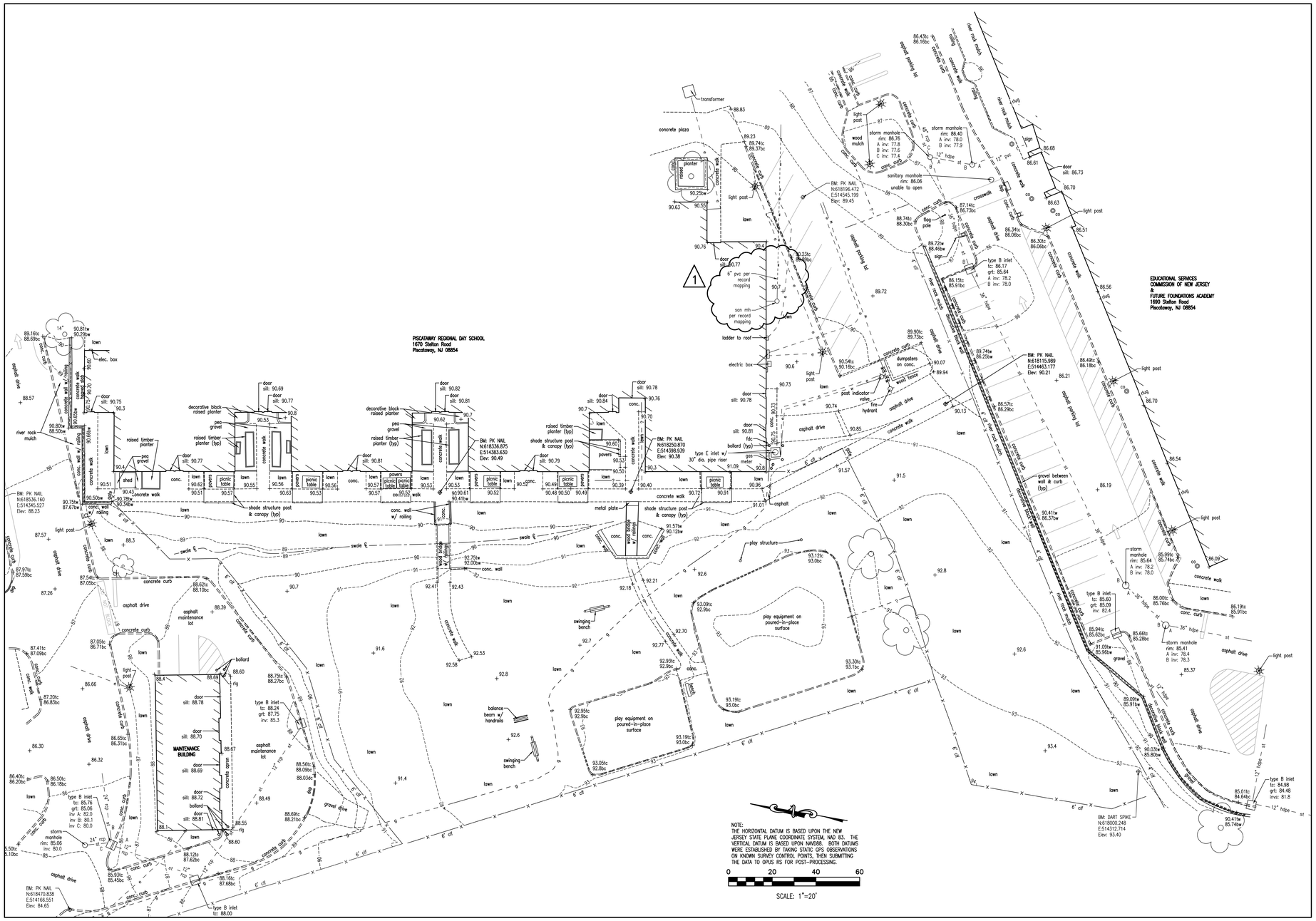
SIGNATURE

CODE AND ZONING REVIEW

THE SCALE REPRESENTED ON THESE DRAWINGS IS ONLY VALID IF THE DRAWING IS 42" x 30". DRAWINGS WHICH ARE NOT PLOTTED AT THE SPECIFIED SHEET SIZE ARE NOT TO SCALE.

10552 PROJECT NUMBER	SHEET NUMBER 1 T1.03
05/29/2026 RELEASE DATE	
TFB PROJECT MANAGER:	CK DRAWN BY: / RT CHECKED BY:

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LEGEND OF SYMBOLS

EXISTING	PROPOSED	ITEM
lowercase text	*UPPERCASE TEXT*	TEXT & NOTES
○	●/◪	MANHOLE– NEW/RECONSTRUCT
□	■/◧	INLET– NEW/RECONSTRUCT
◎ c.o.	◉	CLEANOUT
○ rl ○ rlug	○	ROOF LEADER
gv ⋈ wv	*GV* ⋈ *WV*	VALVE–TYPE
		FIRE HYDRANT/FDC
		UTIL. POLE/W–LIGHT/W–TRANSF.
		STREET/TRAFFIC SIGNS:
		FREESTANDING LIGHT
		NEW ELEC. HAND HOLE
○	●/○	BOLLARD– PERMANENT/REMOVABLE
		CHAIN LINK FENCE
		ORNAMENTAL FENCE
70.25	*x70.25*	SPOT ELEVATIONS
68	68	CONTOUR LINE
– – g – –	G	GAS LINE
//		OVERHEAD POWER LINE
– – e – –	E	ELEC. SERVICE/CONDUIT
		PAVEMENT EDGE
		CURB/DEPRESSED CURB (DC)

EXISTING	PROPOSED	ITEM
		FULL DEPTH DEMOLITION
		STANDARD DUTY HOT MIX ASPHALT PAVEMENT
	1	CLEAN, CRUSHED, ANGULAR DRAINAGE STONE
		PORTLAND CEMENT CONCRETE
		RESILIENT RUBBER PLAYGROUND SURFACE
		ALL–WEATHER RESILIENT SURFACE
		PAVER SURFACE
		ADA DETECTABLE WARNING SURFACE
		TREE/WOOD LINE
– – st – –	– – st – –	STORM SEWER >=12" DIA.
– – st – –		STORM SEWER <12" DIA
– – sa – –	SA	SANITARY SEWER
– – w – –	W	WATER LINE

ABBREVIATIONS

ADA	AMERICAN DISABILITIES ACT
APPROX	APPROXIMATE
BF	BARRIER FREE
BC	BOTTOM OF CURB REVEAL
BDC	BOTTOM OF DEPRESSED CURB
BIT	BITUMINOUS
BM	BENCHMARK
BR	BOTTOM OF RAMP
BS	BOTTOM OF STEP
BW	BOTTOM WALL (GRADE)
COMM	DATA/COMMUNICATION CABLE
CONFIG.	CONFIGURATION
CLF	CHAIN LINK FENCE
C.O.	CLEAN OUT
CONC	CONCRETE
DC	DEPRESSED CURB (FLUSH TO PAVEMENT)
DEP	DEPRESSED CURB
DEMO	DEMOLITION
DIP	DUCTILE IRON PIPE
E	ELECTRIC
ELEV	ELEVATION (FT.)
EX	EXISTING
FDC	FIRE DEPT. CONN.
FO	FIBER OPTIC CABLE
FTG.	FOOTING
FFE	FINISHED FLOOR ELEVATION
G	GAS PIPE LINE
GRT	GRATE (ELEVATION)
GV	GAS VALVE
HC	HANDICAPPED
HP	HIGH POINT
HYD	FIRE HYDRANT
INV	INVERT (ELEV.)
LF	LINEAR FEET
LP	LOW POINT
MH	MANHOLE
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
O/H	OVERHEAD
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PEP	POLYETHYLENE PIPE (HDPE)
PROP	PROPOSED
PT	POINT OF TANGENT
PVC	POLYVINYL CHLORIDE PIPE
RCP	REINFORCED CONC. PIPE
RL	ROOF LEADER
RLUG	ROOF LEADER UNDERGROUND
SCD	SOIL CONSERVATION DISTRICT
ST	STORM SEWER PIPE
SS/SAN	SANITARY SEWER PIPE
TEL	TELEPHONE
TB	TOP OF BORDER
TBR	TO BE REMOVED
TC	TOP OF CURB
TCW	TOP OF CURB WALL+
TDC	TOP OF DEPRESSED CURB
TP	TEST PIT
TR	TOP OF RAMP
TRANSF	TRANSFORMER
TS	TOP OF STEP
TW	TOP OF WALL
TYP	TYPICAL
U/G	UNDERGROUND
UP	UTILITY POLE
V.I.F.	VERIFY IN FIELD
W	WATER
WV	WATER VALVE

PROPERTY SURVEY INFORMATION

1. TOPOGRAPHIC INFORMATION SHOWN ON THIS MAPPING WAS PREPARED BY EDWARDS ENGINEERING GROUP IN MARCH 2026.

SOIL EROSION & SEDIMENT CONTROL NOTES:

1. SEE DRAWING THE SOIL EROSION & SEDIMENT CONTROL PLAN FOR SOIL EROSION AND SEDIMENT CONTROL MEASURES TO BE USED THROUGHOUT THE PROJECT.
2. SOIL EROSION & SEDIMENT CONTROL MEASURES SHALL BE INSTALLED BEFORE LAND DISTURBANCE OR ANY DEMOLITION WORK THAT WILL CAUSE EXCAVATION INTO THE SUBGRADE SOILS.

UNDERGROUND UTILITIES:

1. ALL UNDERGROUND UTILITIES REPRESENTED ON THIS PLAN ARE SHOWN APPROXIMATELY. IN ALL CASES THE EXACT DEPTH, SIZE AND ALIGNMENT OF UNDERGROUND PIPES, WIRES, AND OTHER FEATURES SHALL BE CONSIDERED UNKNOWN AND MUST BE FIELD VERIFIED AT THE START OF THE PROJECT.
2. ENGAGE THE SERVICES OF A PRIVATE UNDERGROUND UTILITY LOCATING AND MARK OUT SERVICE TO PERFORM A MARK OUT OF THE ENTIRE SITE. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION ON THE MARK OUT AND REQUIRED TEST PITS.
3. CONDUCT TEST PITS AT ALL LOCATIONS WHERE UTILITIES ARE INDICATED TO BE VERIFIED IN FIELD (VIF) AND WHERE PROPOSED UNDERGROUND UTILITIES (STORM, SANITARY, ELECTRIC, GAS, DATA) WILL CONNECT TO OR CROSS EXISTING UNDERGROUND UTILITIES. RECORD THE DEPTH, SIZE, AND ALIGNMENT OF EACH UTILITY AT TEST PIT LOCATION. VERIFY UTILITY CROSSING CLEARANCES CAN BE ACHIEVED WITHOUT DEVIATING FROM THE DESIGN INTENT. REPORT TO THE OWNER'S REPRESENTATIVE ANY POTENTIAL CONFLICTS VIA THE R.F.I. PROCESS.

SITE MAINTENANCE REQUIREMENTS:

1. INSTALL DE–WATERING MEASURES AT THE COMMENCEMENT OF EARTHWORK OPERATIONS AND MAINTAIN DE–WATERING OF ALL OPEN EXCAVATIONS THROUGHOUT CONSTRUCTION. STORM WATER RUNOFF MUST BE IMMEDIATELY EVACUATED FROM THE PROJECT SITE THROUGH DE–WATERING PRACTICES. WATER MUST NOT BE TRAPPED OR ALLOWED TO POOL IN ANY AREA. DE–WATERING MEASURES SHALL INCLUDE DE–WATERING PUMPS AND A MEANS OF FILTERING SEDIMENT AND SILT FROM THE WATER BEFORE IT IS DISCHARGED INTO DOWNSTREAM DRAINAGE SYSTEMS.
2. ENGAGE A NJ LICENSED GEOTECHNICAL ENGINEER TO OVERSEE ALL EARTHWORK RELATED TO SITE WORK. CONTRACTOR MUST INSURE THAT EXISTING SOILS ARE CONDITIONED TO BE AT OR NEAR OPTIMUM MOISTURE LEVELS FOR COMPACTION. THE GEOTECHNICAL ENGINEER MUST DOCUMENT SOIL CONDITIONS AND MAKE RECOMMENDATIONS FOR RE–CONDITIONING SAME TO INSURE MAXIMUM COMPACTION.
3. ANY SOIL THAT IS SATURATED SHALL BE DRIED BY THE CONTRACTOR TO RESTORE OPTIMUM MOISTURE LEVEL (VERIFIED BY THE GEOTECHNICAL ENGINEER.) SOILS THAT ARE SATURATED AND CANNOT BE RECONDITIONED IN SUFFICIENT TIME, WITHOUT AFFECTING THE PROJECT SCHEDULE, SHALL BE REMOVED AND REPLACED WITH SUITABLE COMPACTED SOIL (DENSE GRADED AGGREGATE) AT THE CONTRACTOR'S EXPENSE. SEE NOTE #1 ABOVE.
4. PROTECT ADJACENT AREAS TO MAINTAIN THEIR ORIGINAL CONDITION THROUGHOUT CONSTRUCTION. ANY AREAS DAMAGED OR DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO A "LIKE NEW" CONDITION AT THE CONTRACTOR'S EXPENSE.
5. MAINTAIN THE UNDERGROUND UTILITY MARK–OUT THROUGHOUT CONSTRUCTION.
6. PRESERVE AND MAINTAIN SURVEY CONTROL POINTS THROUGHOUT CONSTRUCTION.
7. SWEEP AND MAINTAIN ALL PAVEMENT AREAS TO A "BROOM CLEAN" CONDITION AROUND ALL WORK AREAS. SOIL AND DEBRIS SHALL NOT BE TRACKED OUTSIDE THE WORK AREA.
8. INSTALL TEMPORARY 6 FOOT HIGH CONSTRUCTION FENCING AS NEEDED TO SECURE THE SITE. THE OWNER RESERVES THE RIGHT TO REQUIRE THE INSTALLATION OF ADDITIONAL CONSTRUCTION FENCING TO MAINTAIN SITE SAFETY AND SECURITY AT NO ADDITIONAL COST. ALL TEMPORARY CONSTRUCTION FENCE THAT SERVES TO SECURE THE PERIMETER OF THE WORK AREA SHALL HAVE WIND/DUST SCREEN INSTALLED ALONG ALL SIDES. REFER TO THE PROJECT SPECIFICATIONS FOR TEMPORARY FENCING REQUIREMENTS.ALL CONSTRUCTION AREAS SHALL BE SECURED AT ALL TIMES FROM PUBLIC ACCESS. FURNISH LOCKABLE ACCESS GATES, AND MAN GATES AS NEEDED AND FURNISH THE OWNER DUPLICATE KEYS TO ALL LOCKS.

TEST PIT NOTES:

1. EXCAVATE TEST PITS AT THE COMMENCEMENT OF WORK TO VERIFY THE DEPTH, SIZE, PIPE MATERIAL AND ALIGNMENT OF EXISTING WATER AND SEWER UTILITIES AT THE POINT OF CONNECTION TO NEW SERVICES AND AT PROPOSED PIPE CROSSINGS. REPORT ANY POSSIBLE CONFLICTS TO THE ARCHITECT AND ENGINEER.
2. INCLUDE IN THE CONTRACT AN ADDITIONAL (10) TEST PITS TO BE USED AT THE ARCHITECT'S OR ENGINEER'S DISCRETION FOR ANY REASON WHATSOEVER. THE TEST PITS SHALL BE INCLUDE GEOTECHNICAL OVERSIGHT, MEASUREMENTS BY THE CONTRACTOR'S NJ LICENSED LAND SURVEYOR, DISPOSAL OF WASTE, AND BACKFILL AND COMPACTION OF EACH TEST PIT.

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A Limited Liability Corporation
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Rockaway, NJ 07866
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fax. 973.586.2401
www.planetPSA.com

PROPOSED IMPROVEMENTS FOR EDUCATIONAL SERVICES COMMISSION OF NEW JERSEY:

PISCATAWAY OUTDOOR PLAY AREA

1670 STELTON ROAD,
PISCATAWAY, NJ, 08854
BLOCK: 9201 LOT: 46.12

EDWARDS ENGINEERING GROUP
AN L2A COMPANY
Certificate of Authorization: 24GA28130900
P.O. Box 8437 * Somerville, NJ * 08876-8437
908.231.9595 Fax 908.231.9696
BETH E. KENDERDINE, P.E. 05-29-26
Professional Engineer NJ Lic. No. GE45532 Date
EEG 16944A

1	06/15/26 ADDENDUM #01
2	05/29/26 ISSUED FOR BIDDING

REV	DATE	REMARK

- Gregory J. Somjen A.I.A., CID
  - Connecticut Architect 8622
  - Delaware Architect 6116
  - Massachusetts Architect 9629
  - NCARB Registration 47178
  - New Jersey Architect 13349
  - New York Architect 32435
  - North Carolina Architect 16879
- William H. Bannister, A.I.A. LEEDap
  - Connecticut Architect 14499
  - NCARB Registration 96145
  - New Jersey Architect 19142
  - New York Architect 47812
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  - Pennsylvania Architect RA409555
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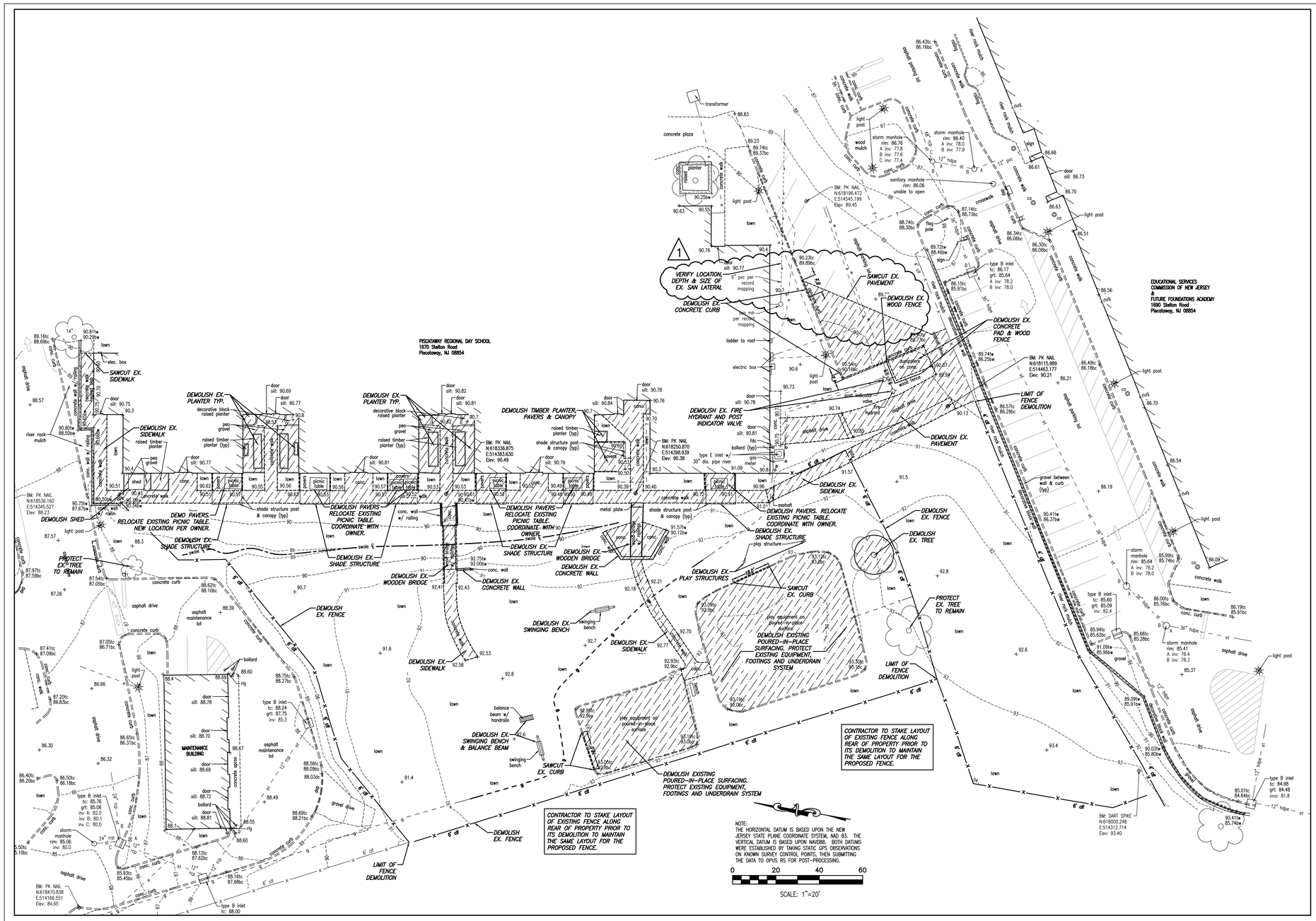
SIGNATURE

EXISTING CONDITIONS

THE SCALE REPRESENTED ON THESE DRAWINGS IS ONLY VALID IF THE DRAWING IS 42" x 30". DRAWINGS WHICH ARE NOT PLOTTED AT THE SPECIFIED SHEET SIZE ARE NOT TO SCALE.

10552 PROJECT NUMBER	SHEET NUMBER C-1.0
05/29/2026 RELEASE DATE	
TFB PROJECT MANAGER	EEG DRAWN BY / BEK CHECKED BY

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GENERAL DEMOLITION NOTES:

1. THE LOCATIONS OF ALL UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE APPROXIMATE. ENGAGE THE SERVICES OF A PRIVATE UNDERGROUND UTILITY LOCATION AND MARK OUT SERVICE TO MARK THE LOCATION OF ALL UNDERGROUND UTILITIES WITHIN THE SCOPE OF THIS PROJECT. THE NJ ONE CALL SERVICE MAY NOT PERFORM A LOCATION WITH THE SCHOOL SITE, THEREFORE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERTAKE THIS WORK. MAINTAIN THE MARK OUT THROUGHOUT THE ENTIRE PROJECT, UNTIL SUCH TIME AS SURFACES ARE INSTALLED AND NO FURTHER SUBSURFACE PENETRATIONS WILL OCCUR.
2. THE CONTRACTOR MUST VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES WITHIN THE SCOPE OF CONSTRUCTION BEFORE COMMENCING WITH ANY WORK. EXCAVATE TEST PITS AT ALL LOCATIONS WHERE EXISTING STORM SEWERS ARE INDICATED AS "APPROXIMATE" OR "VERIFY IN FIELD". REPORT TO THE ENGINEER VIA ARCHITECTS, THE DEPTH (ELEVATION), SIZE, AND ALIGNMENT OF ALL UNDERGROUND UTILITIES EXPOSED AS PART OF THE TEST PIT OPERATION.
3. THE REMOVAL OF ALL WASTE ITEMS, INCLUDING, BUT NOT LIMITED TO EXCESS FILL, EMBANKMENT, FENCING, CONCRETE, PAVEMENT, ETC. INCLUDES HAULING TO AND DISPOSAL OF SAME IN A LEGAL MANNER OFF-SITE.
4. ALL ITEMS ACCIDENTALLY DISTURBED OR DAMAGED BY DEMOLITION, SAW CUTTING, EXCAVATION, ETCETERA, THAT ARE TO REMAIN, SHALL BE REPLACED, RESET, OR RECONSTRUCTED AS REQUIRED TO RESTORE STRUCTURAL INTEGRITY AND SUITABLE (LIKE NEW) APPEARANCE AT NO ADDITIONAL COST.
5. ALL MATERIALS AND EQUIPMENT THAT ARE TO BE RE-USED IN NEW CONSTRUCTION SHALL BE STORED IN A SAFE LOCATION AT THE PROJECT WORK SITE. ALL MATERIALS THAT ARE NOTED TO BE RE-USED SHALL BE CAREFULLY DISMANTLED TO AVOID DAMAGE. ALL PARTS SHALL BE IDENTIFIED AND SECURELY BAGGED. ANY DAMAGED OR LOST EQUIPMENT, HARDWARE, PARTS, OR MATERIALS THAT ARE TO BE RE-USED SHALL BE REPLACED WITH NEW MATERIAL OF EQUIVALENT SIZE AND COMPOSITION. DISASSEMBLE AND DISMANTLE EQUIPMENT ONLY AS MUCH AS NEEDED TO SAFELY REMOVE AND RELOCATE SAME WITHOUT DAMAGING OR COMPROMISING ITS INTEGRITY.
6. A SMOOTH UNIFORM EDGE MUST BE PROVIDED ALONG THE LIMIT OF PAVEMENT REMOVAL. THE CONTRACTOR SHALL SAW-CUT THE PAVEMENT ALONG THE LIMIT OF PAVEMENT DEMOLITION.
7. REMOVE ALL OBSTRUCTIONS WITHIN THE LIMIT OF SITE CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, PAVEMENT, CURB & GUTTER, SIDEWALKS, SIGNS, BOLLARDS, FENCES, TREES, CONCRETE SLABS, WALLS, DEBRIS, GRASS & ROOT MASS, AND FOLIAGE.
8. THE VOIDS CREATED BY THE DEMOLITION AND REMOVAL OF SITE FEATURES AND OTHER STRUCTURES SHALL BE BACKFILLED WITH CERTIFIED CLEAN DENSE GRADED AGGREGATE. ALL BACKFILL SHALL BE PLACED IN 8" LIFTS AND COMPACTED TO 95% MODIFIED PROCTOR DENSITY PER ASTM D-1557.
9. PHASE THE DEMOLITION OF HARD SURFACES AND THE STRIPPING OF LAWN AREAS TO MINIMIZE THE EXPOSURE OF SUBGRADE SOILS TO INCLEMENT WEATHER.
10. MAINTAIN PEDESTRIAN WALKWAYS AND EGRESS ROUTES AROUND ALL WORK AREAS UNTIL SUCH TIME AS NEW PAVEMENT SURFACES WILL BE RECONSTRUCTED TO MAINTAIN SITE ACCESSIBILITY.
11. DEMOLISH ALL PAVEMENT SURFACES, SUBBASE STONE, AND SUBGRADE SOIL AS HATCHED TO THE SUBGRADE DEPTH NEEDED FOR THE NEW SITE IMPROVEMENT (I.E. PAVEMENT, STRUCTURE, FOUNDATION). DISPOSE OF ALL WASTE MATERIAL IN A LEGAL MANNER OFF-SITE.
12. PHASE THE DEMOLITION OF STORM DRAINAGE SYSTEM PIPING, IN ORDER TO MAINTAIN PROPER DRAINAGE AT ALL TIMES. PROVIDE DE-WATERING MEASURES AND THE FILTRATION OF PUMPED WATER AS SHOWN ON THE SOIL EROSION & SEDIMENT CONTROL PLAN.
13. DEMOLISH ALL STORM SEWER PIPING, INLETS, AND DRAIN PIPING AS NOTED ON THE PLANS. BACKFILL ALL VOIDS WITH CERTIFIED CLEAN DENSE GRADED AGGREGATE AND COMPACT IN 6" – 8" LIFTS TO 95 PERCENT OF MODIFIED PROCTOR DENSITY PER ASTM D-1557. ALL BACKFILLING AND SOIL COMPACTION SHALL BE OBSERVED AND TESTED BY THE GEOTECHNICAL ENGINEER.
14. INSTALL DE-WATERING MEASURES AREA-BY-AREA, AS EARTHWORK PROGRESSES. SEE SITE MAINTENANCE NOTES AND EARTHWORK SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
15. REFER TO THE SITE UTILITY PLAN FOR THE LOCATION, ALIGNMENT, AND DEPTH OF NEW STORM SEWER SYSTEM PIPING AND INLETS.
16. **THE CONTRACTOR SHALL ENGAGE A LICENSED GEOTECHNICAL ENGINEER TO OVERSEE THE DEMOLITION OF ALL PAVEMENT AREAS SO THAT SUBGRADE SOIL CONDITIONS CAN BE EVALUATED AFTER THEY ARE UNCOVERED. THE GEOTECHNICAL ENGINEER SHALL IMMEDIATELY PROVIDE A WRITTEN FIELD REPORT IDENTIFYING THE LOCATION AND EXTENT OF ANY UNSTABLE SUBGRADE SOILS. FAILURE TO REPORT THE SUBGRADE SOILS IMMEDIATELY UPON THEIR EXPOSURE WILL OBLIGATE THE CONTRACTOR TO PERFORM SUBGRADE RECONSTRUCTION OF SAME WITHOUT COMPENSATION. REFER TO DETAIL 15 ON C-7.0 FOR SUBGRADE RECONSTRUCTION REQUIREMENTS. THE OWNER WILL NOT COMPENSATE THE CONTRACTOR TO RESTORE SUBGRADE SOILS THAT HAVE BEEN DAMAGED DUE TO POOR CONSTRUCTION SITE MAINTENANCE AND POOR DE-WATERING PRACTICES.**

LEGEND OF SYMBOLS

EXISTING	PROPOSED	ITEM
lowercase text	*UPPERCASE TEXT*	TEXT & NOTES
○	●/◪	MANHOLE– NEW/RECONSTRUCT
□	■/◪	INLET– NEW/RECONSTRUCT
c.o.	⊙	CLEANOUT
rl / rlug	○	ROOF LEADER
gv / wv	GV / WV	VALVE–TYPE
		FIRE HYDRANT/FDC
		UTIL. POLE/W–LIGHT/W–TRANSF.
		STREET/TRAFFIC SIGNS:
		FREESTANDING LIGHT
		NEW ELEC. HAND HOLE
		BOLLARD– PERMANENT/REMOVABLE
		CHAIN LINK FENCE
		ORNAMENTAL FENCE
70.25	x70.25	SPOT ELEVATIONS
68	68	CONTOUR LINE
g	G	GAS LINE
		OVERHEAD POWER LINE
e	E	ELEC. SERVICE/CONDUIT
		PAVEMENT EDGE
		CURB/DEPRESSED CURB (DC)

EXISTING	PROPOSED	ITEM
		FULL DEPTH DEMOLITION
		STANDARD DUTY HOT MIX ASPHALT PAVEMENT
	1	CLEAN, CRUSHED, ANGULAR DRAINAGE STONE
		PORTLAND CEMENT CONCRETE
		RESILIENT RUBBER PLAYGROUND SURFACE
		ALL-WEATHER RESILIENT SURFACE
		PAVER SURFACE
		ADA DETECTABLE WARNING SURFACE
		TREE/WOOD LINE
st	st	STORM SEWER >=12" DIA.
st	st	STORM SEWER <12" DIA
so	SA	SANITARY SEWER
w	W	WATER LINE

ABBREVIATIONS

ADA	AMERICAN DISABILITIES ACT	LF	LINEAR FEET
APPROX	APPROXIMATE	LP	LOW POINT
BF	BARRIER FREE	MH	MANHOLE
BC	BOTTOM OF CURB REVEAL	NEC	NATIONAL ELECTRICAL CODE
BDC	BOTTOM OF DEPRESSED CURB	NIC	NOT IN CONTRACT
BIT	BITUMINOUS	O/H	OVERHEAD
BM	BENCHMARK	PC	POINT OF CURVE
BR	BOTTOM OF RAMP	PCC	POINT OF COMPOUND CURVE
BS	BOTTOM OF STEP	PEP	POLYETHYLENE PIPE (HDPE)
BW	BOTTOM WALL (GRADE)	PROP	PROPOSED
COMM	DATA/COMMUNICATION CABLE	PT	POINT OF TANGENT
CONFIG.	CONFIGURATION	PVC	POLYVINYL CHLORIDE PIPE
CLF	CHAIN LINK FENCE	RCP	REINFORCED CONC. PIPE
C.O.	CLEAN OUT	RL	ROOF LEADER
CONC	CONCRETE	RLUG	ROOF LEADER UNDERGROUND
DC	DEPRESSED CURB (FLUSH TO PAVEMENT)	SCD	SOIL CONSERVATION DISTRICT
DEP	DEPRESSED CURB	ST	STORM SEWER PIPE
DEMO	DEMOLITION	SS/SAN	SANITARY SEWER PIPE
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ELEV	ELEVATION (FT.)	TBR	TO BE REMOVED
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FTG.	FOOTING	TP	TEST PIT
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BETH E. KENDERDINE, P.E. 05-29-26
Professional Engineer NJ Lic. No. GE45532 Date
EEG 1694A

1	06/15/26 ADDENDUM #01
2	05/29/26 ISSUED FOR BIDDING

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- Gregory J. Somjen A.I.A., CID
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SIGNATURE

DEMOLITION PLAN

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10552 PROJECT NUMBER	SHEET NUMBER C-2.0
05/29/2026 RELEASE DATE	
TFB PROJECT MANAGER	EEG DRAWN BY / BEK CHECKED BY

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PLAYGROUND EQUIPMENT SCHEDULE BY BCI BURKE OR APPROVED EQUAL	
KEY	INSTRUCTIONS
A	CONSTRUCT PORTABLE 8' ADAAG TABLE
B	CONSTRUCT A-424
C	CONSTRUCT SERENITY SPOT
D	CONSTRUCT 6' STATIONARY TRADITIONAL BENCH
E	CONSTRUCT WHEELCHAIR PLATFORM SWING
F	CONSTRUCT VERO
G	CONSTRUCT BRAVA UNIVERSAL SWING
H	CONSTRUCT PLAY ENSAMBLE NU-3710
I	NOT USED
J	CONSTRUCT PLAY ENSAMBLE NU-3711
K	CONSTRUCT SOUND GARDEN BB-2337
L	CONSTRUCT VOLTA SPINNER
M	CONSTRUCT CORE-N-MORE
N	CONSTRUCT CHESS PRESS
O	CONSTRUCT STRETCH & CORE
P	CONSTRUCT RECUMBENT BIKE
Q	CONSTRUCT BENCH PRESS
R	CONSTRUCT EXO SERPENTINE
S	CONSTRUCT LEAFCROWN
T	CONSTRUCT UMBRELLA
SPLASH PAD EQUIPMENT SCHEDULE BY AQUATIX OR APPROVED EQUAL	
U	CONSTRUCT AQUAGATHER STATION
V	CONSTRUCT TOTPACK TURTLE
W	CONSTRUCT TOTPACK LADYBUG
X	CONSTRUCT CENTER PILLAR RING
Y	CONSTRUCT STREAM JET
Z	CONSTRUCT TRIPLE ARCH JET
AA	CONSTRUCT HYDROLOGY
AB	CONSTRUCT SPLASH PAD USER SIGN
COLOR BY OWNER FOR ALL EQUIPMENT	

CONTRACTOR SHALL PURCHASE AND INSTALL ALL PLAYGROUND AND SPLASHPAD EQUIPMENT PER THE MANUFACTURER'S INSTRUCTIONS AND GUIDELINES. ALL EQUIPMENT SHALL BE INSTALLED BY AN IPEMA CERTIFIED INSTALLER. SPLASHPAD EQUIPMENT SHALL INCLUDE A NON-ELECTRICAL WATER DELIVERY SYSTEM (HYDROLOGY BY AQUATIX OR EQUAL), TIMER KIT AND VALVE BOX.

PISCATAWAY REGIONAL DAY SCHOOL
1670 Stelton Road
Piscataway, NJ 08854

EDUCATIONAL SERVICES COMMISSION OF NEW JERSEY
&
FUTURE FOUNDATIONS ACADEMY
1690 Stelton Road
Piscataway, NJ 08854

NOTE:
THE HORIZONTAL DATUM IS BASED UPON THE NEW JERSEY STATE PLANE COORDINATE SYSTEM, NAD 83. THE VERTICAL DATUM IS BASED UPON NAVD88. BOTH DATUMS WERE ESTABLISHED BY TAKING STATIC GPS OBSERVATIONS ON KNOWN SURVEY CONTROL POINTS, THEN SUBMITTING THE DATA TO OPUS RS FOR POST-PROCESSING.

0 20 40 60
SCALE: 1"=20'

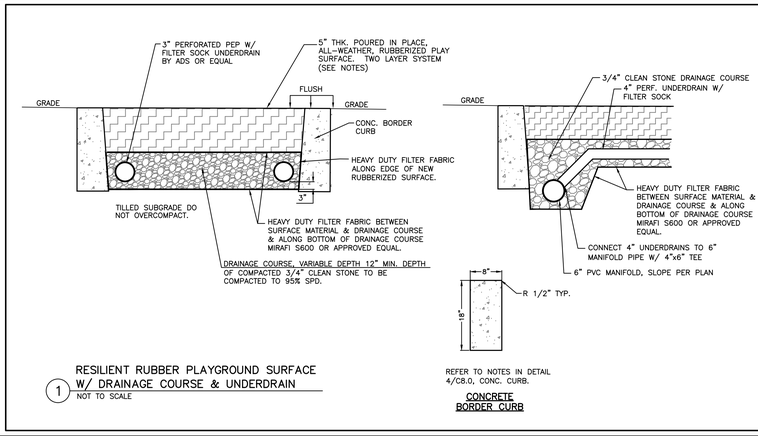
LEGEND OF SYMBOLS

EXISTING	PROPOSED	ITEM
lowercase text	*UPPERCASE TEXT*	TEXT & NOTES
○	●/◐	MANHOLE– NEW/RECONSTRUCT
□	■/◪	INLET– NEW/RECONSTRUCT
⊛ c.o.	⊙	CLEANOUT
○ rl ○ rlug	○	ROOF LEADER
gv ⋈ wv	GV ⋈ WV	VALVE–TYPE
		FIRE HYDRANT/FDC
		UTIL. POLE/W–LIGHT/W–TRANSF.
		STREET/TRAFFIC SIGNS:
		FREESTANDING LIGHT
		NEW ELEC. HAND HOLE
○	●/◐	BOLLARD– PERMANENT/REMOVABLE
		CHAIN LINK FENCE
		ORNAMENTAL FENCE
x70.25	x70.25	SPOT ELEVATIONS
68	62	CONTOUR LINE
– – – g – – –	—G—	GAS LINE
//		OVERHEAD POWER LINE
– – – e – – –	—E—	ELEC. SERVICE/CONDUIT
		PAVEMENT EDGE
═══		CURB/DEPRESSED CURB (DC)

EXISTING	PROPOSED	ITEM
		FULL DEPTH DEMOLITION
		STANDARD DUTY HOT MIX ASPHALT PAVEMENT
		CLEAN, CRUSHED, ANGULAR DRAINAGE STONE
		PORTLAND CEMENT CONCRETE
		RESILIENT RUBBER PLAYGROUND SURFACE
		ALL–WEATHER RESILIENT SURFACE
		PAVER SURFACE
		ADA DETECTABLE WARNING SURFACE
		TREE/WOOD LINE
– – – st – – –		STORM SEWER >=12" DIA.
– – – st – – –		STORM SEWER <12" DIA
– – – so – – –	—SA—	SANITARY SEWER
– – – w – – –	—W—	WATER LINE

ABBREVIATIONS

ADA	AMERICAN DISABILITIES ACT		
APPROX	APPROXIMATE	LF	LINEAR FEET
BF	BARRIER FREE	LP	LOW POINT
BC	BOTTOM OF CURB REVEAL	MH	MANHOLE
BDC	BOTTOM OF DEPRESSED CURB	NEC	NATIONAL ELECTRICAL CODE
BIT	BITUMINOUS	NIC	NOT IN CONTRACT
BM	BENCHMARK	O/H	OVERHEAD
BR	BOTTOM OF RAMP	PC	POINT OF CURVE
BS	BOTTOM OF STEP	PCC	POINT OF COMPOUND CURVE
BW	BOTTOM WALL (GRADE)	PEP	POLYETHYLENE PIPE (HDPE)
COMM	DATA/COMMUNICATION CABLE	PROP	PROPOSED
CONFIG.	CONFIGURATION	PT	POINT OF TANGENT
CLF	CHAIN LINK FENCE	PVC	POLYVINYL CHLORIDE PIPE
C.O.	CLEAN OUT	RCP	REINFORCED CONC. PIPE
CONC	CONCRETE	RL	ROOF LEADER
DC	DEPRESSED CURB	RLUG	ROOF LEADER UNDERGROUND
	(FLUSH TO PAVEMENT)	SCD	SOIL CONSERVATION DISTRICT
DEP	DEPRESSED CURB	ST	STORM SEWER PIPE
DEMO	DEMOLITION	SS/SAN	SANITARY SEWER PIPE
DIP	DUCTILE IRON PIPE	TEL	TELEPHONE
E	ELECTRIC	TB	TOP OF BORDER
ELEV	ELEVATION (FT.)	TBR	TO BE REMOVED
EX	EXISTING	TC	TOP OF CURB
FDC	FIRE DEPT. CONN.	TCW	TOP OF CURB WALL+
FD	FIBER OPTIC CABLE	TDC	TOP OF DEPRESSED CURB
FTG.	FOOTING	TP	TEST PIT
FFE	FINISHED FLOOR ELEVATION	TR	TOP OF RAMP
G	GAS PIPE LINE	TRANSF	TRANSFORMER
GRT	GRATE (ELEVATION)	TS	TOP OF STEP
GV	GAS VALVE	TW	TOP OF WALL
HC	HANDICAPPED	TYP	TYPICAL
HP	HIGH POINT	U/G	UNDERGROUND
HYD	FIRE HYDRANT	UP	UTILITY POLE
INV	INVERT (ELEV.)	V.I.F.	VERIFY IN FIELD
		W	WATER
		WV	WATER VALVE



1 RESILIENT RUBBER PLAYGROUND SURFACE W/ DRAINAGE COURSE & UNDERDRAIN
NOT TO SCALE

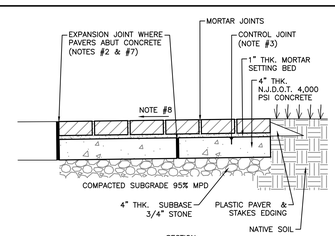
REFER TO NOTES IN DETAIL 4/C5.0, CONC. CURB.

CONCRETE BORDER CURB

NOTES:
1. PLAYGROUND SURFACING SHALL BE POROUS, MULTI-LAYERED, RUBBER BOUND ALL-WEATHER SYSTEM, COMPRISED OF A 4.5" THICK SBR RUBBER BASE LAYER, AND A ±1/2" THICK POROUS COLORED SURFACE LAYER. THE INSTALLED SYSTEM SHALL BE SAFE FOR PLAYGROUND EQUIPMENT FALL HEIGHTS UP TO 12 FEET. THE BASIS OF DESIGN PRODUCT IS: PLAYBOUND, POURED IN PLACE, POROUS ALL WEATHER PLAYGROUND SURFACE, "EXTREME–10" (10 YEAR WARRANTY), BY SURFACE AMERICA, INC., OR APPROVED EQUAL. COLOR BY OWNER.
2. UNDERDRAINS SHALL BE 3" PERFORATED POLYETHYLENE DRAINAGE PIPE, WITH CEREX FILTER SOCK, BY ADS, OR EQUAL, INSTALLED AT MIN. 10' ON CENTER AND POSITIONED TO AVOID EQUIPMENT FOOTINGS.
3. PROVIDE ALL REQUIRED FITTINGS TO CONNECT ALL PIPES IN THE CONFIGURATION SHOWN ON THE PLANS. INCLUDE ALL COUPLERS & TRANSITION PIECES NEEDED TO MEET THE DESIGN INTENT.
4. ELEVATIONS SHOWN ON THE GRADING PLAN ARE TO THE FINISHED SURFACE ELEVATION.

GENERAL CONSTRUCTION NOTES:
1. ALL CONSTRUCTION SHALL BE FINISHED TO INDUSTRY STANDARDS AND COMPLETED IN A PROFESSIONAL "WORKMANLIKE" MANNER. ALL PERMANENT SURFACES SHALL BE FINISHED UNIFORMLY AND SURFACES SHALL NOT HAVE ANY NOTICEABLE DEFECTS, PATCHES, VOIDS, CRACKS, STAINS OR UNDULATIONS.
2. THE PLANS SHALL BE ON–SITE DURING ALL TIMES OF CONSTRUCTION.
3. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED BEFORE ANY LAND DISTURBANCE OCCURS AND SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.
4. AREAS ADJACENT TO CONSTRUCTION MUST BE RESTORED TO ORIGINAL ("LIKE NEW") CONDITION, IF DISTURBED, AT NO ADDITIONAL COST. MINIMUM RESTORATION IN GRADED AREAS SHALL BE 5" OF TOPSOIL, FERTILIZER, AND SEEDING PER SOIL EROSION AND SEDIMENT CONTROL PLAN. IN ADDITION, AREAS ADJACENT TO CONSTRUCTION SHALL BE GRADED TO INSURE THE PROPER CONVEYANCE OF OVERLAND STORM WATER RUNOFF AWAY FROM THE SITE IMPROVEMENTS.
5. WHERE SIDEWALK IS BEING REMOVED AND REPLACED TO ACCOMMODATE GRADE CHANGES, OR UNDERGROUND UTILITY WORK, OR OTHER CONSTRUCTION WORK, REMOVE AT NEAREST CONTROL JOINT. IF A CONTROL JOINT IS NOT PRESENT WITHIN 5 FEET OF THE LIMITS SHOWN GRAPHICALLY ON THE PLAN, THE CONTRACTOR SHALL SAW–CUT THE CURB, CONCRETE SIDEWALK, OR CONCRETE SLAB, AT THE LIMIT SHOWN. INSTALL EXPANSION JOINT MATERIAL AT SAW–CUT LINE. ALIGN ALL EDGES TO MEET FLUSH.
6. THE LIMITS OF GRADING, CONSTRUCTION, SAW–CUTTING, PAVEMENT AND SIDEWALK RESTORATION, ARE APPROXIMATE. IF NECESSARY, INCREASE THE DEMOLITION AND RECONSTRUCTION LIMITS BY UP TO 5 FEET IN ANY HORIZONTAL DIRECTION, AND UP TO 2 FEET IN ANY VERTICAL DIRECTION, IN ORDER TO MAINTAIN STRUCTURAL STABILITY OF THE SITE WORK AND TO AVOID CONFLICTS WITH EXISTING SITE FEATURES AND UTILITIES. NO SEPARATE PAYMENT WILL BE MADE FOR INCREASING THE CONSTRUCTION OR DEMOLITION LIMITS AS NOTED HEREIN.
7. CONSTRUCT TEMPORARY WALKWAYS AND DRIVEWAY PAVEMENT AS REQUIRED TO MAINTAIN PEDESTRIAN AND EMERGENCY ACCESS TO THE SCHOOL BUILDING.
8. THE PLANS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS PROVIDED TO THE CONTRACTOR. READ THE SPECIFICATIONS.
9. **A DETAILED "AS–BUILT" SURVEY MUST BE FURNISHED TO THE ENGINEER VIA ARCHITECT AT LEAST 5 DAYS BEFORE SCHEDULING A SUBSTANTIAL COMPLETION INSPECTION. THE SURVEY MUST CONTAIN SUFFICIENT SPOT ELEVATIONS AND SLOPES TO DOCUMENT THAT THE HORIZONTAL AND VERTICAL POSITION OF ALL SITE IMPROVEMENTS MEETS THE DESIGN INTENT AND APPLICABLE CODES.**
10. ALL OBSTRUCTIONS WHICH CONFLICT WITH NEW CONSTRUCTION SHALL BE REMOVED, ADJUSTED, OR RELOCATED IN FAVOR OF THE NEW SITE IMPROVEMENTS AT NO EXTRA COST TO THE OWNER. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO UNDERGROUND OBSTRUCTIONS, EXISTING CONSTRUCTION, FOLIAGE, FENCES, WALLS, GUIDE RAILS, TREE ROOTS, AND OTHER MISCELLANEOUS DEBRIS ENCOUNTERED WITHIN THE SCOPE OF WORK.
11. THE CONTRACTOR SHALL SECURE ALL REQUIRED CONSTRUCTION PERMITS AND SCHEDULE INSPECTIONS AT THE TIMES REQUIRED BY THE LOCAL BUILDING DEPARTMENT.
12. ALL TRENCHES SHALL BE IN COMPLIANCE WITH OSHA REQUIREMENTS, PER 029 CFR 1926.
13. CONTRACTOR SHALL PROVIDE DE–WATERING IN ALL EXCAVATIONS AS NEEDED TO PROTECT SOILS AT NO ADDITIONAL COST TO THE OWNER.
14. **REFER TO SPECIFICATIONS FOR INSPECTION AND TESTING REQUIREMENTS FOR ALL SITE WORK. THE CONTRACTOR MUST ENGAGE A CERTIFIED MATERIALS TESTING AND INSPECTION COMPANY TO DOCUMENT THE THICKNESS, COMPOSITION, AND STRENGTH OF ALL MATERIALS USED IN THE PROJECT.**
15. OBTAIN ROAD OPENING PERMITS FROM THE MUNICIPALITY FOR ANY WORK WITHIN PUBLIC RIGHTS–OF–WAY. POST REQUIRE INSURANCE CERTIFICATES AND INSPECTION FEES.

FIELD ENGINEERING NOTES:
1. ALL AVAILABLE SURVEY CONTROL INFORMATION IS SHOWN ON THE DRAWINGS. ELEVATION BENCHMARKS AND CONTROL LAYOUT DIMENSIONS HAVE BEEN PROVIDED ON THE PLAN SET IN KEY LOCATIONS. THE ENGINEER WILL NOT RELEASE THE PLAN SET IN AUTOCAD DRAWING FORMAT. A SEPARATE CAD FILE CONTAINING THE DESIGN INFORMATION SHOWN ON THE PLANS MAY BE PROVIDED TO THE CONTRACTOR AT THE COMPLETION OF A "USE & INDEMNIFICATION" AGREEMENT. IT SHOULD BE UNDERSTOOD BY THE CONTRACTOR AND/OR HIS SURVEYOR THAT THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED IN THE ELECTRONIC FORMAT IS NEITHER GUARANTEED NOR IMPLIED.
2. CONSTRUCTION SURVEY STAKE–OUT AND LAYOUT WORK SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR. ALL PROPOSED CONSTRUCTION SHALL HAVE A SURVEY STAKE OUT.
3. IF THE CONTRACTOR BELIEVES THAT A MAJOR DISCREPANCY EXISTS BETWEEN THE INFORMATION SHOWN ON THESE PLANS AND ACTUAL FIELD CONDITIONS, THEN THE CONTRACTOR'S LICENSED LAND SURVEYOR SHALL PERFORM WORK NECESSARY TO CLEARLY DOCUMENT THE DISCREPANCY IN MAP FORM FOR PRESENTATION TO THE ENGINEER FOR REVIEW AND ACTION.
4. THE CONTRACTOR MUST ENGAGE A LICENSED GEOTECHNICAL (SOILS) ENGINEER TO OVERSEE AND CERTIFY ALL EARTHWORK AND SOIL COMPACTION FOR SITE WORK IN THE PROJECT. SOIL COMPACTION TEST REPORTS MUST BE SUBMITTED TO THE OWNER (VIA ARCHITECT) FOR REVIEW AND ACCEPTANCE PRIOR TO CONSTRUCTING SURFACE IMPROVEMENTS. THE OWNER WILL NOT ACCEPT ANY WORK THAT IS CONSTRUCTED ATOP SOILS THAT HAVE NOT BEEN TESTED (AND APPROVED) FOR COMPACTION. LEAVE SUFFICIENT TIME IN THE CONSTRUCTION SCHEDULE FOR SOIL COMPACTION TESTING, AND THE ARCHITECT'S REVIEW OF THE TEST RESULTS.
5. THE CONTRACTOR MUST ENGAGE A CERTIFIED MATERIALS TESTING AND INSPECTION COMPANY TO VERIFY THE COMPOSITION, THICKNESS, SIZE, AND STRENGTH OF ALL MATERIALS USED IN THE PROJECT, IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, RECOGNIZED INDUSTRY STANDARDS, AND AS FURTHER STIPULATED IN THE PROJECT SPECIFICATIONS.
6. **A FINAL, SIGNED AND SEALED, AS–BUILT SURVEY MUST BE SUBMITTED AS EXPLAINED IN THE PROJECT SPECIFICATIONS. THE SURVEY MUST BE SUFFICIENTLY DETAILED SO AS TO CLEARLY DOCUMENT THE LOCATION, ALIGNMENT AND DEPTH OF CONSTRUCTED IMPROVEMENTS AND TO CONFIRM THAT THE SITE GRADING OF ALL IMPROVEMENTS HAS BEEN COMPLETED IN ACCORDANCE WITH THE DESIGN INTENT. ALL BARRIER–FREE PARKING AREAS AND PEDESTRIAN ROUTES SHALL BE SURVEYED IN GREAT DETAIL TO VERIFY THAT ALL SLOPES AND ELEVATIONS MEET CURRENT CODES.**
7. SUBMITTALS SHALL BE PROVIDED TO THE ENGINEER AT THE BEGINNING OF THE PROJECT, DURING THE DEMOLITION STAGE OR EARLIER. SUBMITTALS FOR "LONG LEAD" PRODUCTS AND MATERIALS SHALL BE SUBMITTED FIRST. SUBMITTALS MUST NOT PROPOSE DEVIATIONS FROM THE DESIGN INTENT DEPICTED ON THE PLANS, UNLESS SAID DEVIATION HAS ALREADY BEEN APPROVED BY THE ENGINEER VIA THE REQUEST FOR INFORMATION (RFI) PROCESS. THE RFI PROCESS MUST BE DOCUMENTED IN WRITING FROM THE OWNER'S ARCHITECT AND/OR ENGINEER.



SECTION

NOTES:
1. PORTLAND CEMENT CONCRETE TO BE NJ DOT, 4,000 PSI, AIR ENTRAINED.
2. PROVIDE PREFORMED BITUMINOUS FIBER EXPANSION JOINTS, 1/2" THICK ALONG ALL BUILDING WALLS AND OTHER RIGID SURFACES. THE MAXIMUM SPACING OF EXPANSION JOINTS SHALL BE AS FOLLOWS:
   4" THICK SLAB: 16 FT.
   6" THICK SLAB: 24 FT.
3. CONTROL JOINTS SHALL BE TOOLED TO A DEPTH = 25% OF THE SLAB THICKNESS. CONTROL JOINTS MAY BE SAWCUT WITH AN EARLY ENTRY DRY CUT SAW. SAWCUT LINES SHALL CLEAN AND UNCHIPPED. THE MAXIMUM SPACING SHALL BE AS FOLLOWS:
   4" THICK SLAB: 8 FT.
   6" THICK SLAB: 12 FT.
4. ALL CONSTRUCTION SHALL BE ON COMPACTED SUBGRADE PER SPECIFICATIONS.
5. MAXIMUM CROSS SLOPE FOR SIDEWALKS IS 2%. SEE GRADING PLAN FOR SLOPES IN PLAZAS AND ALL PAVEMENT AREAS.
6. MAX. RUNNING SLOPE ALONG ANY SIDEWALK OR PLAZA IS 5 PERCENT.
7. CONCRETE SHALL BE DOWELED TO ADJACENT BUILDING FOUNDATION USING #4 GRADE 60 REBARS, MIN. 12" LONG. USE SPEED DOWEL BY GREENSTREAK, OR EQUAL PLACED AT 18" O.C. PROVIDE EXPANSION SLEEVE FOR EACH DOWEL.
8. JOINT WIDTH PER PAVER MANUFACTURER RECOMMENDATION
9. PAVER BASIS OF DESIGN: 4–1/2 X 9 LEDGESTONE SMOOTH PAVER BY CAMBRIDGE PAVERS OR APPROVED EQUAL.
10. PAVERS TO BE LAID IN RUNNING BOND PATTERN. COLOR BY OWNER.

2 CONCRETE PAVERS
NOT TO SCALE

PSA Beyond Architecture
Parette Somjen Architects
A Limited Liability Corporation
CERT. NO. 21AC00039800
439 Route 46 East
Rockaway, NJ 07866
Tel. 973.586.2400
fax. 973.586.2401
www.planetPSA.com

PROPOSED IMPROVEMENTS FOR EDUCATIONAL SERVICES COMMISSION OF NEW JERSEY:

PISCATAWAY OUTDOOR PLAY AREA

1670 STELTON ROAD,
PISCATAWAY, NJ, 08854
BLOCK: 9201 LOT: 46.12

EDWARDS ENGINEERING GROUP
AN L2A COMPANY
Certificate of Authorization: 24GA28130900
P.O. Box 8437 * Somerville, NJ * 08876-8437
908.231.9595 Fax 908.231.9696
BETH E. KENDERDINE, P.E. 05-29-26
Professional Engineer NJ Lic. No. GE45532 Date
EEG 16944

1 06/15/26 ADDENDUM #01
- 05/29/26 ISSUED FOR BIDDING

REV	DATE	REMARK

Gregory J. Somjen A.I.A., CID
Connecticut Architect 8622
Delaware Architect 6116
Massachusetts Architect 9629
NCARB Registration 47178
New Jersey Architect 13349
New York Architect 32435
North Carolina Architect 16879

William H. Bannister, A.I.A. LEEDap
Connecticut Architect 14499
NCARB Registration 96145
New Jersey Architect 19142
New York Architect 47812
North Carolina Architect 15027
Pennsylvania Architect RA409555
South Carolina Architect 10382

Richard J. Traufwein, A.I.A.
New Jersey Architect 12199

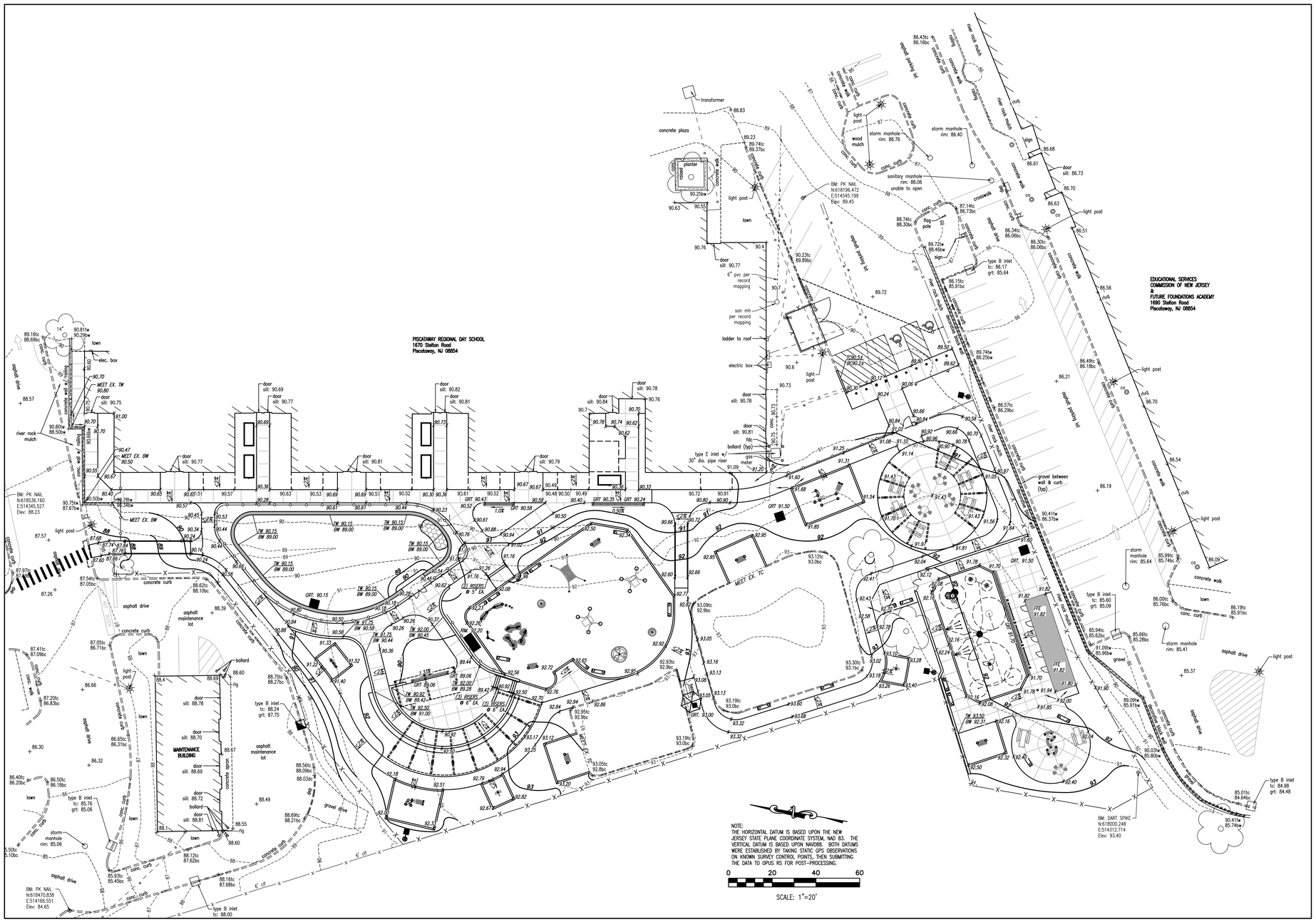
SIGNATURE

SITE LAYOUT PLAN

THE SCALE REPRESENTED ON THESE DRAWINGS IS ONLY VALID IF THE DRAWING IS 42" x 30". DRAWINGS WHICH ARE NOT PLOTTED AT THE SPECIFIED SHEET SIZE ARE NOT TO SCALE.

10552	SHEET NUMBER C-3.0
PROJECT NUMBER	
05/29/2026	
RELEASE DATE	
TFB	EEG / BEK
PROJECT MANAGER	DRAWN BY / CHECKED BY

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GRADING NOTES:

1. ALL UTILITY VALVE COVERS SHALL BE RESET TO FINAL PAVEMENT GRADE. BROKEN OR SEVERELY WORN CASTINGS SHALL BE REPLACED "IN KIND." INCLUDE AT LEAST SIX (6) GAS AND WATER VALVE CASTING REPLACEMENTS IN THE CONTRACT.
2. THE PLANS DESIGNATE AT LEAST TWO (2) BENCHMARKS. ONLY DESIGNATED BENCHMARKS SHALL BE USED WHEN ESTABLISHING INTERIM AND FINAL ELEVATIONS FOR ALL NEW CONSTRUCTION IMPROVEMENTS. THE CONTRACTOR IS PROCEEDING AT ITS OWN RISK IF NEW ELEVATIONS ARE ESTABLISHED BY REFERENCING ANY ELEVATION OTHER THAN A DESIGNATED BENCHMARK.
3. REFER TO THE PROJECT SPECIFICATIONS FOR SPECIFIC EARTHWORK AND COMPACTION REQUIREMENTS AFTER DEMOLITION AND ROUGH GRADING HAS BEEN COMPLETED.
4. THE MAXIMUM RUNNING AND CROSS SLOPES OF SIDEWALKS ALONG A MEANS OF EGRESS SHALL BE AS FOLLOWS:
   CROSS SLOPE: 2% MAXIMUM
   RUNNING SLOPE: 5% MAXIMUM
   ADA COMPLIANT RAMP: 8.3% MAXIMUM
5. SPOT ELEVATIONS ARE SHOWN ON THE PLAN IN KEY LOCATIONS AND PROPOSED CONSTRUCTION IS REQUIRED TO ACHIEVE THESE ELEVATIONS TO ENSURE CODE COMPLIANCE. THE PROPOSED SPOT ELEVATIONS SHOWN ON THE PLAN ENSURE THAT THE REQUIREMENTS IN NOTE #4 ARE MET.
6. FURNISH A DETAILED "AS-BUILT" SURVEY DOCUMENTING THAT THE GRADES AND ELEVATIONS SHOWN ON THE GRADING PLAN HAVE BEEN MET DURING CONSTRUCTION AND COMPLY WITH NOTES ABOVE. ANY CONSTRUCTION (ESPECIALLY BARRIER FREE (ADA) PARKING STALLS, CURB RAMPS & WALKWAYS) THAT EXCEEDS THE GRADES SHOWN IN NOTE #4 WILL BE RECONSTRUCTED AT THE CONTRACTOR'S EXPENSE.
7. **ENGAGE A LICENSED PROFESSIONAL LAND SURVEYOR TO STAKE OUT CONSTRUCTION AND SET CONTROL POINTS SO THAT THE LINES AND GRADES SHOWN ON THE PLAN ARE MET.**
8. LAWN AREAS AROUND NEW CONSTRUCTION SHALL BE GRADED TO PROVIDE A FLUSH EDGE AND UNIFORM TRANSITION BETWEEN EXISTING AND PROPOSED ELEVATIONS. THE LIMITS OF GRADING (WHEN NOT CLEARLY DISCERNABLE BY CONTOUR LINES AND SPOT ELEVATIONS) SHALL BE EXTENDED UP TO 5 FEET BEYOND THE LIMIT OF CONSTRUCTION TO ENSURE THAT A SMOOTH TRANSITION IS PROVIDED.
9. ALL AREAS OF THE SITE SHALL BE GRADED TO ENSURE THAT STORM WATER DOES NOT POOL OR BECOME IMPOUNDED.
10. THE RECOMMENDED MINIMUM SLOPE IN LAWN AREAS IS ONE AND ONE-HALF (1.5) PERCENT. IN SOME AREAS IT IS NECESSARY FOR LAWN AREAS TO SLOPE AS LITTLE AS ONE (1) PERCENT. IN THESE AREAS, THE CONTRACTOR SHALL TAKE ADDITIONAL MEASURES TO FINE GRADE FINISHED SURFACES TO MAINTAIN POSITIVE DRAINAGE.
11. ALL IMPORTED FILL AND DENSE GRADED AGGREGATE SHALL BE CERTIFIED CLEAN PER THE NJ RESIDENTIAL SITE REMEDIATION STANDARDS.

LEGEND OF SYMBOLS

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BETH E. KENDERDINE, P.E. 05-29-26
Professional Engineer NJ Lic. No. GE45532 Date
EEG 1694A

REV	DATE	REMARK
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  - Delaware Architect 6116
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  - NCARB Registration 47178
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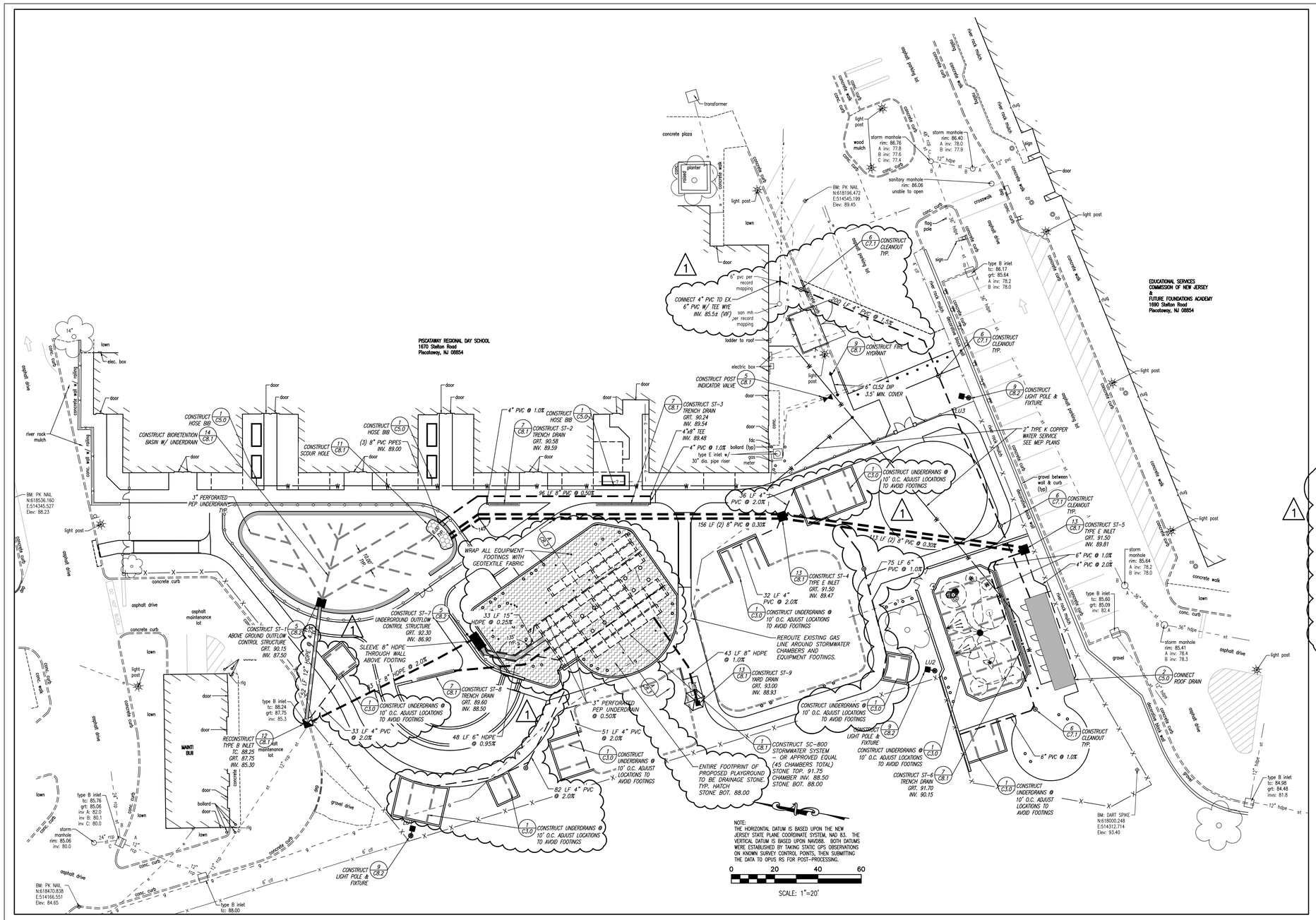
SITE GRADING PLAN

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RELEASE DATE	
05/29/2026	

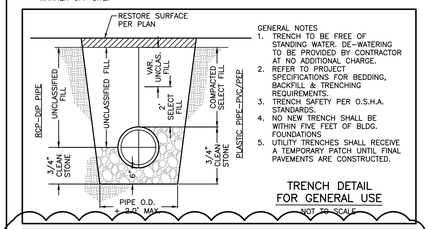
PROJECT MANAGER	DRAWN BY	CHECKED BY
TFB	EEG	BEK

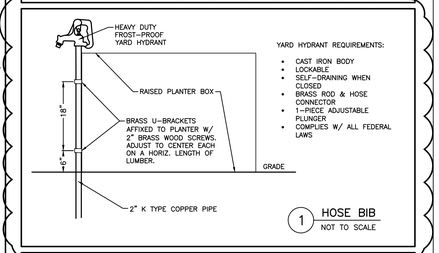
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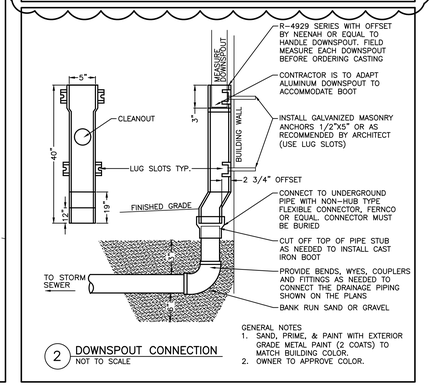


UTILITY NOTES:

1. CONTACT NJ ONE CALL SERVICE TO MARKOUT ALL UNDERGROUND UTILITIES THAT ARE PRESENT IN WORK AREAS. FOR ANY AREA NOT MARKED BY THE NJ ONE CALL SERVICE, CONTRACTOR MUST ENGAGE A PRIVATE UNDERGROUND UTILITY MARKOUT COMPANY TO LOCATE UNDERGROUND UTILITIES IN THOSE AREAS.
2. THE LOCATION OF UTILITIES ARE SHOWN APPROXIMATELY. EXCAVATE TEST PITS IN ALL LOCATIONS WHERE NEW UNDERGROUND UTILITIES/SEWERS WILL CONNECT TO OR CROSS EXISTING UTILITIES. AT ALL TEST PIT LOCATIONS, MEASURE AND RECORD THE SIZE, DEPTH, AND ALIGNMENT OF THE EXISTING UTILITY AND CONFIRM THAT NEW SERVICE CAN CONNECT OR CROSS WITHOUT CONFLICT. REPORT ANY CONFLICTS TO THE ENGINEER. TEST PITS PERFORMED IN PAVED AREAS SHALL BE TEMPORARILY PATCHED WITH ASPHALT PAVEMENT. THE PATCHED AREAS SHALL BE CONTINUOUSLY MAINTAINED.
3. ALL NEW INLET AND MANHOLES CASTINGS MUST BE EQUIPPED WITH ADA OR BICYCLE-SAFE GRATES, AS NOTED ON THE PLANS.
4. MAINTAIN THE EXISTING STORM SEWER SYSTEM IN WORKING ORDER AT ALL TIMES. THERE MUST BE PROVISIONS IN PLACE TO INSURE THE PROPER CONVEYANCE OF STORM WATER AWAY FROM CONSTRUCTION AREAS AND AWAY FROM BUILDINGS AT ALL TIMES. PROVIDE EITHER NATURAL GRADED DIVERSIONS, MECHANICALLY PUMPED DE-WATERING SYSTEMS, OR TEMPORARY PIPE INTERCONNECTIONS AS NEEDED TO DIVERT STORM WATER AND TO MAINTAIN A DRY CONSTRUCTION SITE.
5. ALL INLETS AND MANHOLES WITH NEW CONNECTIONS OR REMOVED PIPE SHALL BE RE-BLOCKED AND RE-GROUTED TO RESTORE STRUCTURAL INTEGRITY. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE OVERALL BID AMOUNT.
6. PIPE TRENCHES MUST BE SUFFICIENTLY WIDE TO INSURE SAFETY PER OSHA REQUIREMENTS. ALL EXCAVATIONS AND TRENCHES SHALL HAVE PROPER BRACING, SIDE SLOPES, AND TERRACING AS REQUIRED BY OSHA HEALTH AND SAFETY FOR EXCAVATIONS, 29 CFR, PART 1926, OR AS AMENDED.
7. ALL UTILITY VALVE COVERS SHALL BE RESET TO FINAL PAVEMENT GRADE. BROKEN OR SEVERELY WORN CASTINGS SHALL BE REPLACED "IN KIND." INCLUDE AT LEAST SIX (6) GAS AND WATER VALVE CASTING REPLACEMENTS IN THE CONTRACT.
8. THE PLANS DESIGNATE TWO (2) BENCHMARKS. ONLY DESIGNATED BENCHMARKS SHALL BE USED WHEN ESTABLISHING INTERIM AND FINAL ELEVATIONS FOR ALL NEW CONSTRUCTION IMPROVEMENTS. THE CONTRACTOR IS PROCEEDING AT ITS OWN RISK IF NEW ELEVATIONS ARE ESTABLISHED BY REFERENCING ANY ELEVATION OTHER THAN A DESIGNATED BENCHMARK.
9. ALL STORM SEWER CONSTRUCTION SHALL BEGIN AT THE LOWER ELEVATION AND PROCEED UPSTREAM. FAILURE TO PROCEED IN THIS MANNER MAY RESULT IN THE INABILITY TO ADJUST THE ALIGNMENT OR UPSTREAM PIPES TO AVOID POTENTIAL CONFLICTS. PRIOR TO CONSTRUCTING ANY NEW SEWERS, THE CONTRACTOR SHALL EXCAVATE TEST PITS AT ALL LOCATIONS WHERE THE NEW SEWER PIPE WILL CROSS EXISTING UTILITIES IN ORDER TO VERIFY SUITABLE CLEARANCES.
10. REFER TO THE PROJECT SPECIFICATIONS FOR SPECIFIC EARTHWORK AND COMPACTION REQUIREMENTS AFTER DEMOLITION AND ROUGH GRADING HAS BEEN COMPLETED.
11. REFER TO THE ELECTRICAL PLANS FOR FINAL LOCATIONS AND SIZES OF UNDERGROUND POWER CONDUITS AND JUNCTION BOXES.
12. THE DEPTH AND ALIGNMENT OF GRAVITY FED UTILITIES SUCH AS STORM SEWERS SHALL GOVERN WHERE THERE IS CONFLICTING INFORMATION. ADJUST THE DEPTH AND ALIGNMENT OF CONDUITS, TO LOOP UNDER STORM AND SANITARY SEWERS. IN ALL AREAS WHERE UTILITIES CROSS STORM AND SANITARY SEWERS, ASSUME THE UTILITY SHALL BE INSTALLED DEEPER AND INCLUDE THIS WORK IN THE CONTRACT.
13. CLEANOUTS IN PAVEMENT AND WALKWAY AREAS SHALL BE INSTALLED FLUSH WITH GRADE WITH A HEAVY DUTY COVER.
14. ALL DRAINAGE STRUCTURES, I.E. PIPES, MANHOLES, OUTFLOW STRUCTURES, AND INLETS, SHALL BE CLEANED OF ALL SEDIMENT AND DEBRIS. ALL DEBRIS SHALL BE DISPOSED OF IN A LEGAL MANNER OFF SITE.







LEGEND OF SYMBOLS

EXISTING (lowercase text)	PROPOSED (UPPERCASE TEXT)	ITEM
		TEXT & NOTES
○	● / ◪	MANHOLE- NEW/RECONSTRUCT
□	■ / ◪	INLET- NEW/RECONSTRUCT
◎ c.o.	◉	CLEANOUT
○ rl / rlug	○	ROOF LEADER
gv pd wv	GV PD WV	VALVE-TYPE
		FIRE HYDRANT/FDC
		UTIL. POLE/W-LIGHT/W-TRANSF.
		STREET/TRAFFIC SIGNS:
		FREESTANDING LIGHT
		NEW ELEC. HAND HOLE
		BOLLARD- PERMANENT/REMOVABLE
		CHAIN LINK FENCE
		ORNAMENTAL FENCE
70.25	70.25	SPOT ELEVATIONS
68	68	CONTOUR LINE
g	G	GAS LINE
//		OVERHEAD POWER LINE
e	E	ELEC. SERVICE/CONDUIT
		PAVEMENT EDGE
		CURB/DEPRESSED CURB (DC)

EXISTING	PROPOSED	ITEM
		FULL DEPTH DEMOLITION
		STANDARD DUTY HOT MIX ASPHALT PAVEMENT
1		CLEAN, CRUSHED, ANGULAR DRAINAGE STONE
		PORTLAND CEMENT CONCRETE
		RESILIENT RUBBER PLAYGROUND SURFACE
		ALL-WEATHER RESILIENT SURFACE
		PAVER SURFACE
		ADA DETECTABLE WARNING SURFACE
		TREE/WOOD LINE
st		STORM SEWER >=12" DIA.
st		STORM SEWER <12" DIA
sa	SA	SANITARY SEWER
w	W	WATER LINE

ABBREVIATIONS

ADA	AMERICAN DISABILITIES ACT	LF	LINEAR FEET
APPROX	APPROXIMATE	LP	LOW POINT
BF	BARRIER FREE	MH	MANHOLE
BC	BOTTOM OF CURB REVEAL	NEC	NATIONAL ELECTRICAL CODE
BDC	BOTTOM OF DEPRESSED CURB	NIC	NOT IN CONTRACT
BIT	BITUMINOUS	O/H	OVERHEAD
BM	BENCHMARK	PC	POINT OF CURVE
BR	BOTTOM OF RAMP	PCC	POINT OF COMPOUND CURVE
BS	BOTTOM OF STEP	PEP	POLYETHYLENE PIPE (HDPE)
BW	BOTTOM WALL (GRADE)	PROP	PROPOSED
COMM	DATA/COMMUNICATION CABLE	PT	POINT OF TANGENT
CONFIG.	CONFIGURATION	PVC	POLYVINYL CHLORIDE PIPE
CLF	CHAIN LINK FENCE	RCP	REINFORCED CONC. PIPE
C.O.	CLEAN OUT	RL	ROOF LEADER
CONC	CONCRETE	RLUG	ROOF LEADER UNDERGROUND
DC	DEPRESSED CURB (FLUSH TO PAVEMENT)	SCD	SOIL CONSERVATION DISTRICT
DEP	DEPRESSED CURB	ST	STORM SEWER PIPE
DEMO	DEMOLITION	SS/SAN	SANITARY SEWER PIPE
DIP	DUCTILE IRON PIPE	TEL	TELEPHONE
E	ELECTRIC	TB	TOP OF BORDER
ELEV	ELEVATION (FT.)	TBR	TO BE REMOVED
EX	EXISTING	TC	TOP OF CURB
FDC	FIRE DEPT. CONN.	TCW	TOP OF CURB WALL+
FO	FIBER OPTIC CABLE	TDC	TOP OF DEPRESSED CURB
FTG.	FOOTING	TP	TEST PIT
FFE	FINISHED FLOOR ELEVATION	TR	TOP OF RAMP
G	GAS PIPE LINE	TRANSF	TRANSFORMER
GRT	GRATE (ELEVATION)	TS	TOP OF STEP
GV	GAS VALVE	TW	TOP OF WALL
HC	HANDICAPPED	TYP	TYPICAL
HP	HIGH POINT	U/G	UNDERGROUND
HYD	FIRE HYDRANT	UP	UTILITY POLE
INV	INVERT (ELEV.)	V.I.F.	VERIFY IN FIELD
		W	WATER
		WV	WATER VALVE

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PROPOSED IMPROVEMENTS FOR EDUCATIONAL SERVICES COMMISSION OF NEW JERSEY:

PISCATAWAY OUTDOOR PLAY AREA

1670 STELTON ROAD,
PISCATAWAY, NJ, 08854
BLOCK: 9201 LOT: 46.12

EDWARDS ENGINEERING GROUP
AN L2A COMPANY
Certificate of Authorization: 24GA28130900
P.O. Box 8437 * Somerville, NJ * 08876-8437
908.231.9595 Fax 908.231.9696
BETH E. KENDERDINE, P.E. 05-29-26
Professional Engineer NJ Lic. No. GE45532 Date
EEG 1694A

1	06/15/26 ADDENDUM #01
-	05/29/26 ISSUED FOR BIDDING

REV	DATE	REMARK

Gregory J. Somjen A.I.A., CID
Connecticut Architect 8622
Delaware Architect 6116
Massachusetts Architect 9629
NCARB Registration 47178
New Jersey Architect 13349
New York Architect 32435
North Carolina Architect 16879

William H. Bannister, A.I.A. LEEDap
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NCARB Registration 96145
New Jersey Architect 19142
New York Architect 47812
North Carolina Architect 15027
Pennsylvania Architect RA409555
South Carolina Architect 10382

Richard J. Trautwein, A.I.A.
New Jersey Architect 12199

SIGNATURE

UTILITY PLAN

THE SCALE REPRESENTED ON THESE DRAWINGS IS ONLY VALID IF THE DRAWING IS 42" x 30". DRAWINGS WHICH ARE NOT PLOTTED AT THE SPECIFIED SHEET SIZE ARE NOT TO SCALE.

10552	SHEET NUMBER C-5.0
PROJECT NUMBER	
05/29/2026	
RELEASE DATE	
TFB	EEG / BEK
PROJECT MANAGER	DRAWN BY / CHECKED BY

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PLANT SCHEDULE

SHADE TREES				
KEY	BOTANICAL NAME	COMMON NAME	SIZE	QTY
AO	'OCTOBER GLORY' ACER RUBRUM	'OCTOBER GLORY' RED MAPLE	2"–2.5" CAL.	5
CO	CELTIS OCCIDENTALIS	HACKBERRY	2"–2.5" CAL.	7
NS	NYSSA SYLVATICA	BLACK GUM	2"–2.5" CAL.	3
TA	TILIA AMERICANA	BASSWOOD	2"–2.5" CAL.	4

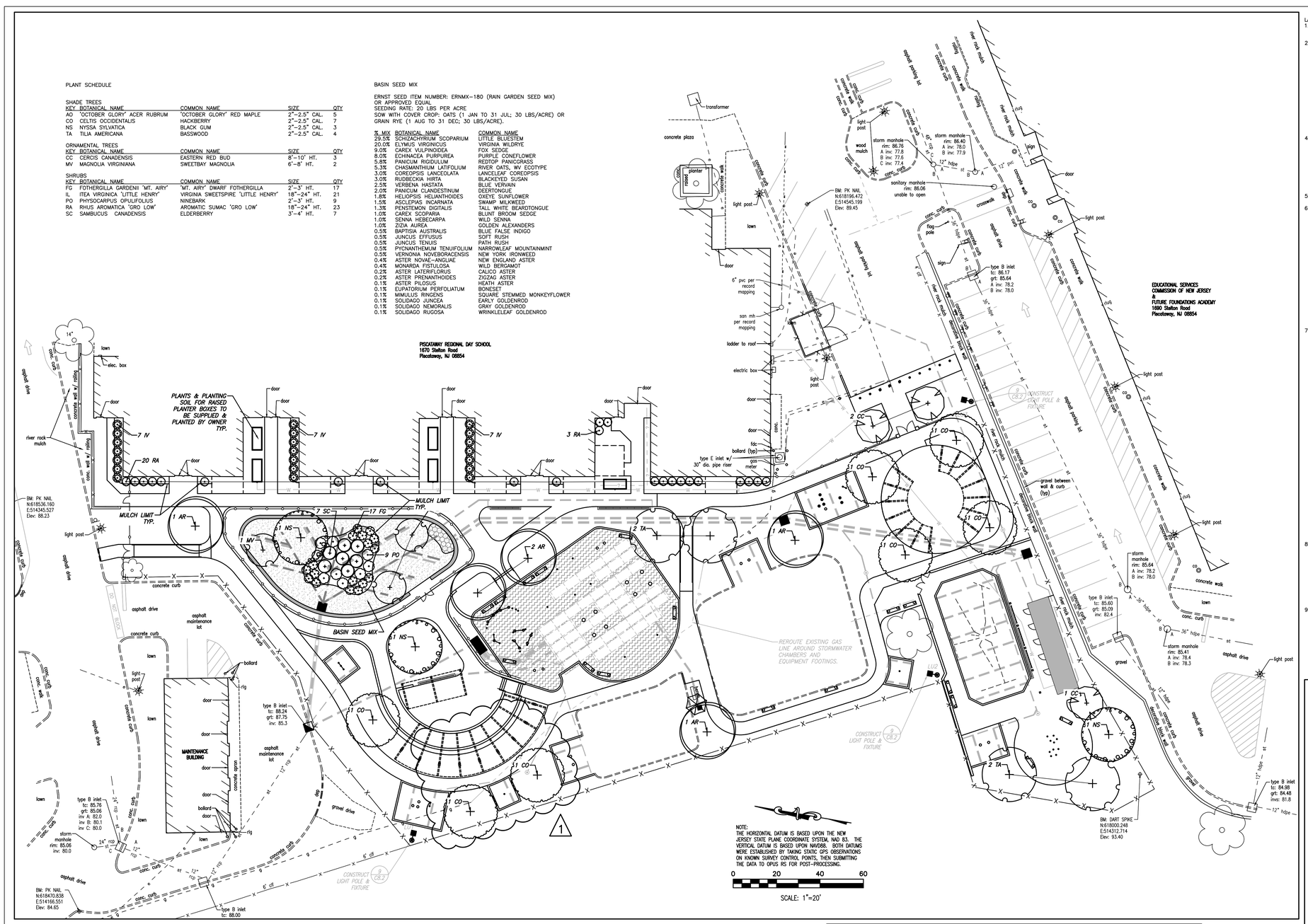
ORNAMENTAL TREES				
KEY	BOTANICAL NAME	COMMON NAME	SIZE	QTY
CC	CERCIS CANADENSIS	EASTERN RED BUD	8'–10' HT.	3
MV	MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA	6'–8' HT.	2

SHRUBS				
KEY	BOTANICAL NAME	COMMON NAME	SIZE	QTY
FG	FOTHERGILLA GARDENII 'MT. AIRY'	'MT. AIRY' DWARF FOTHERGILLA	2'–3' HT.	17
IL	ITEA VIRGINICA 'LITTLE HENRY'	VIRGINIA SWEETSPIRE 'LITTLE HENRY'	18"–24" HT.	21
PO	PHYSOCARPUS OPULIFOLIUS	NINEBARK	2'–3' HT.	9
RA	RHUS AROMATICA 'GRO LOW'	AROMATIC SUMAC 'GRO LOW'	18"–24" HT.	23
SC	SAMBUCUS CANADENSIS	ELDERBERRY	3'–4' HT.	7

BASIN SEED MIX

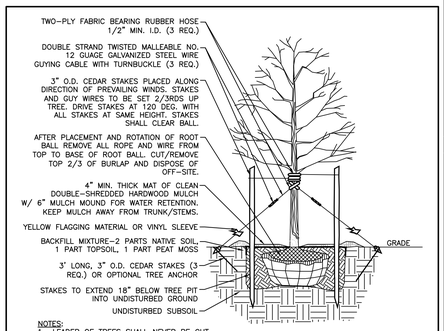
ERNST SEED ITEM NUMBER: ERNMX-180 (RAIN GARDEN SEED MIX)
OR APPROVED EQUAL
SEEDING RATE: 20 LBS PER ACRE
SOW WITH COVER CROP: OATS (1 JAN TO 31 JUL; 30 LBS/ACRE) OR
GRAIN RYE (1 AUG TO 31 DEC; 30 LBS/ACRE).

% MIX	BOTANICAL NAME	COMMON NAME
29.5%	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM
20.0%	ELYMUS VIRGINICUS	VIRGINIA WILDRYE
9.0%	CAREX VULPINOIDEA	FOX SEDGE
8.0%	ECHINACEA PURPUREA	PURPLE CONEFLOWER
5.8%	PANICUM RIGIDULUM	REDTOP PANICGRASS
5.3%	CHASMANTHIUM LATIFOLIUM	RIVER OATS, W/ ECOTYPE
3.0%	COREOPSIS LANCEOLATA	LANCELEAF COREOPSIS
3.0%	RUDBECKIA HIRTA	BLACKEYED SUSAN
2.5%	VERBENA HASTATA	BLUE VERVAIN
2.0%	PANICUM CLANDESTINUM	DEERTONGUE
1.8%	HELIOPSIS HELIANTHOIDES	OXEYE SUNFLOWER
1.5%	ASCLEPIAS INCARNATA	SWAMP MILKWEED
1.3%	PENSTEMON DIGITALIS	TALL WHITE BEARDTONGUE
1.0%	CAREX SCOPARIA	BLUNT BROOM SEDGE
1.0%	SENNA HEBECARPA	WILD SENNA
1.0%	ZIZIA AUREA	GOLDEN ALEXANDERS
0.5%	BAPTISIA AUSTRALIS	BLUE FALSE INDIGO
0.5%	JUNCUS EFFUSUS	SOFT RUSH
0.5%	JUNCUS TENUIS	PATH RUSH
0.5%	PYCNANTHEMUM TENUIFOLIUM	NARROWLEAF MOUNTAINMINT
0.5%	VERNONIA NOVEBORACENSIS	NEW YORK IRONWEED
0.4%	ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER
0.4%	MONARDA FISTULOSA	WILD BERGAMOT
0.2%	ASTER LATERIFLORUS	CALICO ASTER
0.2%	ASTER PRENANTHOIDES	ZIGZAG ASTER
0.1%	ASTER PILOSUS	HEATH ASTER
0.1%	EUPATORIUM PERFOLIATUM	BONESET
0.1%	MIMULUS RINGENS	SQUARE STEMMED MONKEYFLOWER
0.1%	SOLIDAGO JUNCEA	EARLY GOLDENROD
0.1%	SOLIDAGO NEMORALIS	GRAY GOLDENROD
0.1%	SOLIDAGO RUGOSA	WRINKLELEAF GOLDENROD



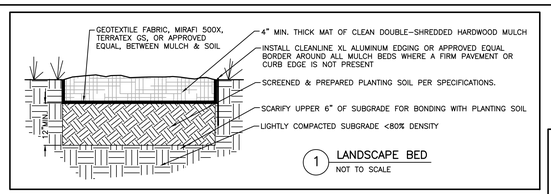
LANDSCAPING NOTES:

1. THIS WORK SHALL CONSIST OF CLEARING, SOIL PREPARATION, FINISH GRADING, PLANTING AND DRAINAGE, INCLUDING ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY. THE CONTRACTOR SHALL COORDINATE WITH LIGHTING AND IRRIGATION CONTRACTORS REGARDING TIMING OF INSTALLATION.
2. MATERIALS:
   A. ALL MATERIALS SHALL BE BEST OF ITS KIND AVAILABLE.
   B. PLANTS SHALL CONFORM TO CURRENT "AMERICAN STANDARDS FOR NURSERY STOCK" BY AMERICAN ASSOCIATION OF NURSERYMEN.
   C. ALL PLANTS SHALL HAVE NORMAL, WELL-DEVELOPED BRANCHES & VIGOROUS ROOT SYSTEMS AND BE HEALTHY, VIGOROUS, FREE FROM DEFECTS, DISFIGURING KNOTS, INJURIES, DISEASES, PESTS, AND INFECTION. ALL PLANTS SHALL BE NURSERY GROWN AND GRADE "A" NURSERY STOCK.
   D. ALL B&B OR CONTAINER PLANTS SHALL BE PROPERLY IDENTIFIED BY WEATHERPROOF LABELS SECURELY ATTACHED THERETO. LABELS SHALL IDENTIFY PLANTS BY GENUS, SPECIES, VARIETY AND SIZE AND SHALL NOT BE REMOVED UNTIL THE FINAL INSPECTION BY THE AGENT IN CHARGE.
   E. PLANTS PLANTED IN ROWS SHALL BE MATCHED SPECIMENS AND BE UNIFORM IN SIZE AND FORM.
   F. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN CONSENT OF THE OWNER OR AGENT IN CHARGE.
   G. HARDWOOD MULCH TO BE DOUBLE-SHREDDED HARDWOOD MULCH TO MEET THE STANDARDS SET FORTH IN THE "SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY STANDARDS" (SESC STANDARDS).
3. GENERAL WORK PROCEDURES:
   A. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND NOTIFY THE ENGINEER IF ANY DISCREPANCIES ARE ENCOUNTERED.
   B. IN THE EVENT OF VARIATIONS BETWEEN WRITTEN QUANTITIES SHOWN ON THE PLAN AND THE PLANT LIST, THE PLANS SHALL CONTROL. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES PRIOR TO THE COMMENCEMENT OF WORK. ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER FOR CLARIFICATION PRIOR TO BIDDING.
   C. THE CONTRACTOR SHALL INSURE THAT HIS WORK DOES NOT INTERRUPT ESTABLISHED OR PROJECTED DRAINAGE PATTERNS.
   D. PERMEABLE WEED RETARDANT BARRIER SHALL BE USED IN ALL NON-GRASSED AREA.
4. WEEDING: BEFORE AND DURING PRELIMINARY GRADING AND FINISH GRADING, ALL WEEDS SHALL BE DUG OUT BY THE ROOTS AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
5. TOPSOILING:
   A. CULTIVATE ALL AREAS TO BE PLANTED TO A DEPTH OF 6". ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
   B. CONTRACTOR TO PROVIDE SIX INCHES (6") MIN. THICK TOPSOIL LAYER IN ALL PLANTING AREAS AND FIVE INCHES (5") MIN. THICK TOPSOIL LAYER IN ALL SEEDED AREAS.
   C. TOPSOIL TO MEET THE STANDARDS SET FORTH IN THE SESC STANDARDS. BEFORE PLANTING, CONTRACTOR SHALL TEST TOPSOIL UTILIZED AND ADJUST LEVELS AS REQUIRED BY STANDARDS SET FORTH IN THE SESC STANDARDS.
   D. THE CONTRACTOR SHALL FERTILIZE ALL PLANT MATERIAL WITH 5-10-5 FERTILIZER, OR APPROVED EQUAL AT THE RATE SPECIFIED BY THE MANUFACTURER AS NECESSARY. ALL TURF AREAS SHALL BE LIMED AND FERTILIZED APPROPRIATELY FOR THE TYPES OF SOILS ON THE SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE THE SOIL ACIDITY AND A SOIL TEST CONDUCTED TO ESTABLISH THE SOIL'S LIME AND FERTILIZER RATES.
   E. THOROUGHLY TILL ORGANIC MATTER INTO THE TOP SIX INCHES (6") OF PLANTING SOILS. USE COMPOSTED BARK, RECYCLED YARD WASTE, OR PEAT MOSS. ALL PRODUCTS SHOULD BE COMPOSTED TO A DARK COLOR AND BE FREE OF PIECES WITH IDENTIFIABLE LEAF OR WOOD STRUCTURE. AVOID MATERIAL WITH A PH HIGHER THAN 7.5. MODIFY HEAVY CLAY OR SILT (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED MATERIALS (UP TO 30% BY VOLUME). IMPROVE DRAINAGE IN HEAVY SOILS BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.
7. PLANTING:
   A. POSITION TREES AND SHRUBS AT THEIR INTENDED LOCATIONS, MAKING NECESSARY ADJUSTMENTS AS DIRECTED. IF UTILITY LINES ARE ENCOUNTERED IN EXCAVATION OF TREE PITS, OTHER LOCATIONS FOR TREES SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COMPENSATION. NO CHANGES OF LOCATION SHALL BE MADE WITHOUT APPROVAL OF THE AGENT IN CHARGE.
   B. PLANTS SHALL BE PRUNED OF DEAD, DAMAGED, OR DISEASED BRANCHES PRIOR TO DELIVERY. PRUNING SHALL MAINTAIN THE NATURAL FORM OR HABIT OF THE PLANT. FLOWERING SHRUBS/TREES TO BE PRUNED AFTER FLOWERING. TREE LEADERS SHALL NEVER BE CUT. ALL INJURED ROOTS SHALL BE PRUNED WITH A PERPENDICULAR CUT USING A SHARP IMPLEMENT PRIOR TO PLANTING. PRUNE ALL PROPOSED TREES DIRECTLY ADJACENT TO WALKWAYS TO A MIN. OF 7' BRANCHING HEIGHT.
   C. PLANTS SHOULD BE PLANTED ON DAY OF DELIVERY; CONTRACTOR SHALL PROTECT AND WATER MATERIALS NOT PLANTED ON DAY OF DELIVERY. ALL MATERIALS TO BE PLANTED WITHIN THREE (3) DAYS AFTER DELIVERY.
   D. PREPARED SOIL SHALL BE TAMPED FIRMLY AT BOTTOM OF PIT. ALL PREPARED SOIL AROUND BALL OF PLANT 1/2 WAY, AND FERTILIZE. COMPLETE BACKFILL AND WATER THOROUGHLY.
   E. CUT AND REMOVE FROM PIT BURLAP, ROPE, AND WIRE BASKET FROM THE TOP 1/3 OF THE ROOT BALL. NYLON ROPE AND/OR NYLON BALLING MATERIAL SHALL NOT BE USED.
   F. ALL PLANTS SHALL BE SET SO THAT THEY BEAR THE SAME RELATION TO THE REQUIRED GRADE AS THEY BORE TO THE NATURAL GRADE BEFORE BEING TRANSPLANTED.
   G. WATER SHALL BE APPLIED TO EACH PLANT IN SUCH MANNER AS NOT TO DISTURB BACK FILL AND TO THE EXTENT THAT ALL MATERIALS IN THE PLANTING HOLE ARE THOROUGHLY SATURATED. WATER TO BE APPLIED AT A RATE OF 5 GALLONS OF WATER PER SQUARE YARD OF PLANT PIT IMMEDIATELY AFTER PLANTING AND INSTALLATION. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ADEQUATE IRRIGATION TO ALL PLANT MATERIALS AND LAWN AREAS INSTALLED AS PART OF THIS CONTRACT DURING THE CONSTRUCTION TIME PERIOD UP TO AND INCLUDING THE TIME PERIOD ESTABLISHED FOR PLANT MATERIAL SURVIVAL GUARANTEE.
   H. ROOT BARRIER PRODUCT SHALL BE INSTALLED IN THE PLANTING PITS OF TREES BEING INSTALLED WITHIN TEN FEET OF NEW OR EXISTING PAVEMENT, CURB OR SIDEWALK. ROOT BARRIER SHALL ONLY BE INSTALLED IN SIDE(S) OF PLANTING PITS THAT ARE WITHIN TEN (10) FEET OF NEW OR EXISTING PAVEMENT OR CURBS.
   I. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR STABILITY AND CONDITIONS OF ALL TREES AND SHRUBS AND SHALL BE LEGALLY LIABLE FOR ANY DAMAGE CAUSED BY INSTABILITY OF ANY PLANT MATERIALS.
   J. ALL GROUND COVER AREAS SHALL BE TREATED WITH A PRE-EMERGENT BEFORE FINAL LANDSCAPE INSPECTION. GROUND COVER AREAS SHALL BE WEEDED PRIOR TO APPLYING PRE-EMERGENT. PRE-EMERGENT TO BE APPLIED AS PER MANUFACTURER'S RECOMMENDATION.
8. GUARANTEE:
   G. CONTRACTOR SHALL GUARANTEE ALL PLANTS AND LAWN FOR A PERIOD OF TWO (2) YEARS FROM ACCEPTANCE OF JOB TO BE ALIVE AND IN VIGOROUS GROWING CONDITION DURING AND AT THE END OF THE GUARANTEE PERIOD. REMOVE UNSATISFACTORY AND DEAD PLANTS EVERY MONTH DURING THE GUARANTEE PERIOD AND REPLACE WITH PLANTS OF THE SAME KIND, QUALITY, AND SIZE AS SPECIFIED.
   H. UPON COMPLETION OF THE TWO (2) YEAR PLANT GUARANTEE PERIOD, THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR REMOVING TREE STAKES AND GUY WIRES FROM ALL TREES. THIS SHALL BE DONE IN CONSULTATION WITH THE LANDSCAPE ARCHITECT.
   I. STORMWATER BASIN SHALL BE NO MORE THAN 15% WEED SPECIES AT THE END OF FIRST TWO (2) GROWING SEASONS.
9. CLEANUP: UPON THE COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE BROOM CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE. MAINTAIN TREES, SHRUBS AND OTHER PLANTS BY PRUNING, CULTIVATING AND WEEDING AS REQUIRED FOR HEALTHY GROWTH. RESTORE PLANTING SAUCERS. TIGHTEN AND REPAIR STAKE AND GUY SUPPORTS AND RESET TREES AND SHRUBS TO PROPER GRADES OR VERTICAL POSITION AS REQUIRED. SPRAY WITH HERBICIDE AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE. MAINTAIN LAWNS BY WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING, AND OTHER OPERATIONS SUCH AS ROLLING, REGRADING AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS.

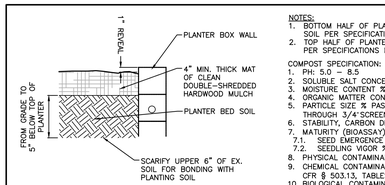


NOTES:
1. LEADER OF TREES SHALL NEVER BE CUT.
2. STAKING IS REQUIRED FOR ALL DECIDUOUS TREES UNDER 3" IN CALIPER AND ALL EVERGREEN TREES UNDER 8' IN HEIGHT.
3. GUYING IS REQUIRED FOR ALL DECIDUOUS TREES 3" IN CALIPER AND GREATER AND ALL EVERGREEN TREES OVER 8' IN HEIGHT.
4. DECIDUOUS TREES SHALL BE PRUNED TO THIN AND SHAPE CANOPY. EVERGREEN TREES SHALL HAVE ONLY DAMAGED OR BROKEN BRANCHES REMOVED.
5. TREE SHALL BEAR SAME RELATION TO GRADE AS IT BORE TO PREVIOUS GRADE IN THE NURSERY.

3 TREE INSTALLATION
NOT TO SCALE



1 LANDSCAPE BED
NOT TO SCALE

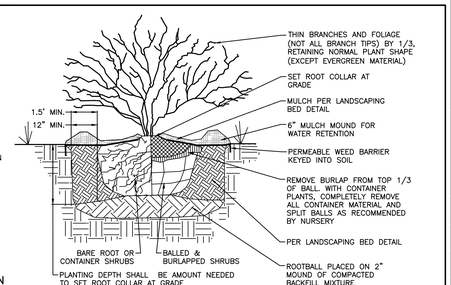


2 RAISED PLANTER BOX FILL
NOT TO SCALE

NOTES:
1. BOTTOM HALF OF PLANTER BED SHALL BE FILLED WITH SCREENED & PREPARED PLANTING SOIL PER SPECIFICATIONS AND LIGHTLY TAMPED.
2. TOP HALF OF PLANTER BED SHALL BE FILLED WITH A MIXTURE OF PREPARED PLANTING SOIL PER SPECIFICATIONS MIXED WITH 20% COMPOST BY VOLUME.

COMPOST SPECIFICATION:
1. PH: 5.0 – 8.5
2. SOLUBLE SALT CONCENTRATION DS/M (MMHOS/CM): MAXIMUM 10
3. MOISTURE CONTENT %, WET WEIGHT BASIS: 30–60
4. ORGANIC MATTER CONTENT %, DRY WEIGHT BASIS: 30–65
5. PARTICLE SIZE % PASSING A SELECTED MESH SIZE, DRY WEIGHT BASIS: 98% PASS THROUGH 3/4"SCREEN OR SMALLER
6. STABILITY, CARBON DIOXIDE EVOLUTION RATE MG CO2-C PER G OM PER DAY: < 8
7. MATURITY (BIOASSAY)
   7.1. SEED EMERGENCE AND %, RELATIVE TO POSITIVE CONTROL: MINIMUM 80%
   7.2. SEEDLING VIGOR %, RELATIVE TO POSITIVE CONTROL: MINIMUM 80%
8. PHYSICAL CONTAMINANTS (INERTS) %, DRY WEIGHT BASIS: < 1
9. CHEMICAL CONTAMINANTS4 MG/KG (PPM): MEET OR EXCEED US EPA CLASS A STANDARD, 40 CFR § 503.13, TABLES 1 AND 3 LEVELS
10. BIOLOGICAL CONTAMINANTS, SELECT PATHOGENS
   10.1. FECAL COLIFORM BACTERIA, OR MPN PER GRAM PER DRY WEIGHT: MEET OR EXCEED US EPA CLASS A
   10.2. SALMONELLA MPN PER 4 GRAMS PER DRY WEIGHT STANDARD, 40 CFR § 503.32(A) LEVELS: MEET OR EXCEED US EPA CLASS A

NOTES:
1. MAINTAIN SAME GROUND LINE AS IN THE NURSERY.
2. DO NOT PRUNE EVERGREEN SHRUBS EXCEPT TO REMOVE DEAD AND BROKEN BRANCHES
3. ALL SHRUBS ARE TO BE FULL AND HAVE GOOD CONFORMANCE.
4. WHERE CLUSTERED IN A BED, THE HOLE FOR SHRUBS MUST BE A CONTINUOUS HOLE AND BE PREPARED PER LANDSCAPE BED DETAIL.



4 SHRUB INSTALLATION
NOT TO SCALE

LEGEND OF SYMBOLS

EXISTING	PROPOSED	ITEM
lowercase text	*UPPERCASE TEXT*	TEXT & NOTES
○	●/◪	MANHOLE– NEW/RECONSTRUCT
□	■/◪	INLET– NEW/RECONSTRUCT
◎ c.o.	◎	CLEANOUT
⌂ rlug	○	ROOF LEADER
gv ⋈ wv	*GV* ⋈ *WV*	VALVE–TYPE
		FIRE HYDRANT/FDC
		UTIL. POLE/W–LIGHT/W–TRANSF.
		STREET/TRAFFIC SIGNS:
		FREESTANDING LIGHT
	NEW ELEC. HAND HOLE	
		BOLLARD– PERMANENT/REMOVABLE
		CHAIN LINK FENCE
		ORNAMENTAL FENCE
70.25	*70.25*	SPOT ELEVATIONS
68	*68*	CONTOUR LINE
g	G	GAS LINE
//		OVERHEAD POWER LINE
e	E	ELEC. SERVICE/CONDUIT
		PAVEMENT EDGE
		CURB/DEPRESSED CURB (DC)

EXISTING	PROPOSED	ITEM
		FULL DEPTH DEMOLITION
		STANDARD DUTY HOT MIX ASPHALT PAVEMENT
1		CLEAN, CRUSHED, ANGULAR DRAINAGE STONE
		PORTLAND CEMENT CONCRETE
		RESILIENT RUBBER PLAYGROUND SURFACE
		ALL-WEATHER RESILIENT SURFACE
		PAVER SURFACE
		ADA DETECTABLE WARNING SURFACE
		TREE/WOOD LINE
st		STORM SEWER >=12" DIA.
st		STORM SEWER <12" DIA
sa	SA	SANITARY SEWER
w	W	WATER LINE

ABBREVIATIONS

ADA	AMERICAN DISABILITIES ACT		
APPROX	APPROXIMATE	LF	LINEAR FEET
BF	BARRIER FREE	LP	LOW POINT
BC	BOTTOM OF CURB REVEAL	MH	MANHOLE
BDC	BOTTOM OF DEPRESSED CURB	NEC	NATIONAL ELECTRICAL CODE
BIT	BITUMINOUS	NIC	NOT IN CONTRACT
BM	BENCHMARK	O/H	OVERHEAD
BR	BOTTOM OF RAMP	PC	POINT OF CURVE
BS	BOTTOM OF STEP	PCC	POINT OF COMPOUND CURVE
BW	BOTTOM WALL (GRADE)	PEP	POLYETHYLENE PIPE (HDPE)
COMM	DATA/COMMUNICATION CABLE	PROP	PROPOSED
CONFIG.	CONFIGURATION	PT	POINT OF TANGENT
CLF	CHAIN LINK FENCE	PVC	POLYVINYL CHLORIDE PIPE
C.O.	CLEAN OUT	RCP	REINFORCED CONC. PIPE
CONC	CONCRETE	RL	ROOF LEADER
DC	DEPRESSED CURB (FLUSH TO PAVEMENT)	RLUG	ROOF LEADER UNDERGROUND
		SCD	SOIL CONSERVATION DISTRICT
DEP	DEPRESSED CURB	ST	STORM SEWER PIPE
DEMO	DEMOLITION	SS/SAN	SANITARY SEWER PIPE
DIP	DUCTILE IRON PIPE	TEL	TELEPHONE
E	ELECTRIC	TB	TOP OF BORDER
ELEV	ELEVATION (FT.)	TBR	TO BE REMOVED
EX	EXISTING	TC	TOP OF CURB
FDC	FIRE DEPT. CONN.	TCW	TOP OF CURB WALL+
FO	FIBER OPTIC CABLE	TDC	TOP OF DEPRESSED CURB
FTG.	FOOTING	TP	TEST PIT
FFE	FINISHED FLOOR ELEVATION	TR	TOP OF RAMP
G	GAS PIPE LINE	TRANSF	TRANSFORMER
GRT	GRATE (ELEVATION)	TS	TOP OF STEP
GV	GAS VALVE	TW	TOP OF WALL
HC	HANDICAPPED	TYP	TYPICAL
HP	HIGH POINT	U/G	UNDERGROUND
HYD	FIRE HYDRANT	UP	UTILITY POLE
INV	INVERT (ELEV.)	V.I.F.	VERIFY IN FIELD
		W	WATER
		WV	WATER VALVE

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PROPOSED IMPROVEMENTS FOR EDUCATIONAL SERVICES COMMISSION OF NEW JERSEY:

PISCATAWAY OUTDOOR PLAY AREA

1670 STELTON ROAD,
PISCATAWAY, NJ, 08854
BLOCK: 9201 LOT: 46.12

EDWARDS ENGINEERING GROUP
AN L2A COMPANY
Certificate of Authorization: 24GA28130900
P.O. Box 8437 * Somerville, NJ * 08876-8437
908.231.9595 Fax 908.231.9696

BETH E. KENDERDINE, P.E. 05-29-26
Professional Engineer NJ Lic. No. GE45532 Date
EEG 1694A

1	06/15/26 ADDENDUM #01
-	05/29/26 ISSUED FOR BIDDING

REV	DATE	REMARK

Gregory J. Somjen A.I.A., CID
Connecticut Architect 8622
Delaware Architect 6116
Massachusetts Architect 9629
NCARB Registration 47178
New Jersey Architect 13349
New York Architect 32435
North Carolina Architect 16879

William H. Bannister, A.I.A. LEEDap
Connecticut Architect 14499
NCARB Registration 96145
New Jersey Architect 19142
New York Architect 47812
North Carolina Architect 15027
Pennsylvania Architect RA-609555
South Carolina Architect 10382

Richard J. Trautwein, A.I.A.
New Jersey Architect 12199

SIGNATURE

LANDSCAPE PLAN

THE SCALE REPRESENTED ON THESE DRAWINGS IS ONLY VALID IF THE DRAWING IS 42" x 30". DRAWINGS WHICH ARE NOT PLOTTED AT THE SPECIFIED SHEET SIZE ARE NOT TO SCALE.

10552 PROJECT NUMBER	SHEET NUMBER C-6.0
05/29/2026 RELEASE DATE	
TFB PROJECT MANAGER	EEG DRAWN BY / BEK CHECKED BY

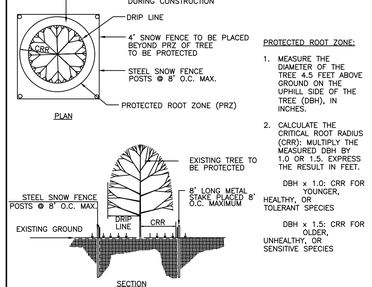
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AREA OF DISTURBANCE:
60,630 S.F. / 1.39 AC.

1

LEGEND – SOIL EROSION

SYMBOL	DESCRIPTION
SLANTED TEXT	TEXT & NOTES
	SILTATION CONTROL FENCE
	INLET SEDIMENT FILTER
15	CONTOUR LINE
+ 22.75	SPOT ELEVATION
⟹	DRAINAGE PATTERN
	LIMIT OF DISTURBANCE
	WHEEL CLEANING BLANKET
	TOPSOIL STOCKPILE



PROTECTED ROOT ZONE:

1. MEASURE THE DIAMETER OF THE TREE 4.5 FEET ABOVE GROUND ON THE UPHILL SIDE OF THE TREE (DBH), IN INCHES.
2. CALCULATE THE CRITICAL ROOT RADIUS (CRR): MULTIPLY THE MEASURED DBH BY 1.0 OR 1.5. EXPRESS THE RESULT IN FEET.

DBH x 1.0: CRR FOR YOUNGER, HEALTHY, OR TOLERANT SPECIES

DBH x 1.5: CRR FOR OLDER, UNHEALTHY, OR SENSITIVE SPECIES

NOTES:

1. TREE PROTECTION SHALL BE PROVIDED FOR ANY AND ALL TREES TO BE PRESERVED DURING AND AFTER CONSTRUCTION. THE CONTRACTOR SHALL TAKE WHATEVER ADDITIONAL MEASURES NECESSARY TO PROTECT EXISTING TREES TO REMAIN AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF MATERIALS OR EXCAVATED MATERIAL WITHIN PRZ, EXCESS FOOT OR VEHICLE TRAFFIC OR PARKING OF VEHICLES WITHIN PRZ.
2. BOARDS WILL NOT BE NAILED TO TREES DURING BUILDING OPERATIONS.
3. FEEDER ROOTS SHOULD NOT BE CUT IN AN AREA INSIDE THE PRZ.
4. DAMAGED TRUNKS OR EXPOSED ROOTS SHOULD HAVE DAMAGED BARK REMOVED IMMEDIATELY AND NO PAINT SHALL BE APPLIED. EXPOSED RROTS SHOULD BE COVERED WITH TOPSOIL IMMEDIATELY AFTER EXCAVATION IS COMPLETE. ROOTS SHALL BE PRUNED TO GIVE A CLEAN, SHARP SURFACE AMENABLE TO HEALING. ROOTS EXPOSED DURING HOT WEATHER SHOULD BE IRRIGATED TO PREVENT PERMANENT TREE INJURY. CARE FOR SERIOUS INJURY SHOULD BE PRESCRIBED BY A PROFESSIONAL FORESTER OR LICENSED TREE EXPERT.
5. TREE LIMB REMOVAL, WHERE NECESSARY, WILL BE DONE AS NATURAL TARGET PRUNING TO REMOVE THE DESIRED BRANCH AS CLOSE AS POSSIBLE TO THE BRANCH COLLAR. THERE SHOULD BE NO FLUSH CUTS. NO TREE PAINT SHALL BE APPLIED. ALL CUTS SHALL BE MADE AT THE OUTSIDE EDGE OF THE BRANCH COLLAR.

EXISTING TREE PROTECTION
N.T.S.

DEWATERING

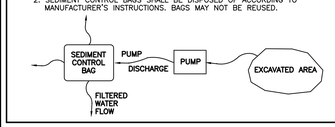
CONTRACTOR IS ADVISED THAT DE-WATERING PROCEDURES ARE REQUIRED DURING CONSTRUCTION PRACTICES. ALL DE-WATERING PROCEDURES MUST INCLUDE A METHOD OF REMOVING SEDIMENT PRIOR TO DISCHARGING. SEDIMENT REMOVAL METHODS SHALL FOLLOW STANDARDS FOR SOIL EROSION & SEDIMENT CONTROL IN NEW JERSEY, SECTION 14.

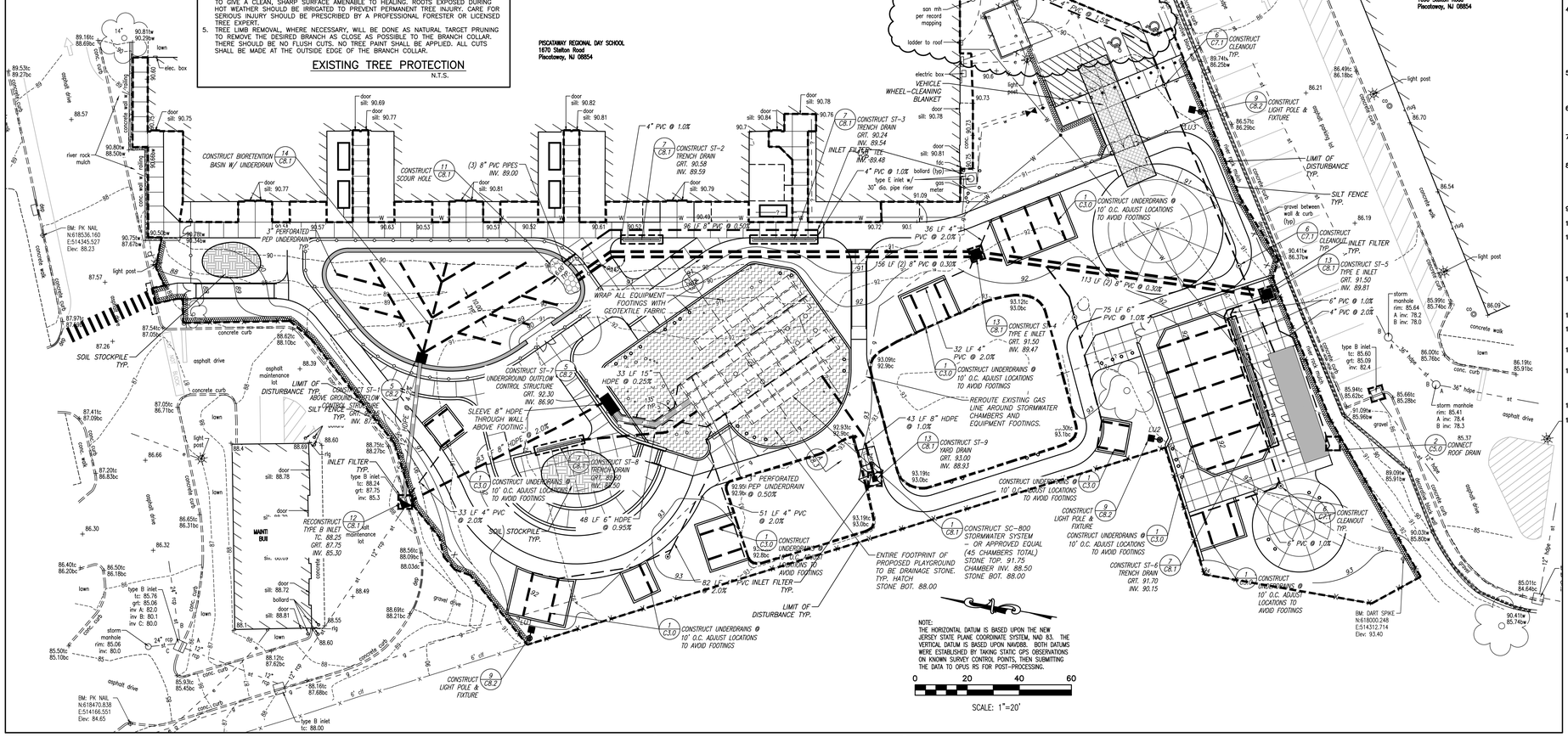
TEMPORARY FILTERS (SMALL IMPOUNDMENTS)

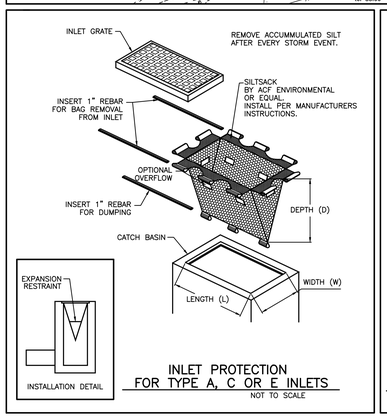
FOR SMALL QUANTITIES OF PONDED WATER SUCH AS MAY BE FOUND IN SHALLOW EXCAVATIONS (SMALL TRENCHES, MANHOLE INSTALLATIONS, ETC.) A SEDIMENT FILTER MAY BE CONSTRUCTED USING COMBINATIONS OF HAY BALES, SMALL CLEAN STONE AND FILTER FABRIC. THIS METHOD IS LIMITED TO SMALL QUANTITIES OF TRAPPED SURFACE WATER AND WHERE SEDIMENTS ARE NOT HIGHLY COLLOIDAL IN NATURE.

SEDIMENT CONTROL BAG

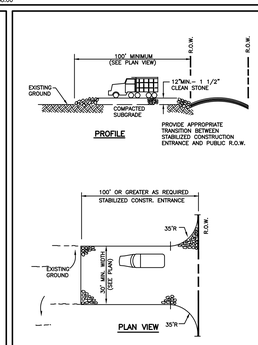
1. BAGS SHALL BE LOCATED FOR EASE OF CLEAN-OUT AND DISPOSAL OF THE TRAPPED SEDIMENT AND TO MINIMIZE INTERFERENCE WITH CONSTRUC-TION ACTIVITIES AND PEDESTRIAN TRAFFIC. BAGS SHALL NOT BE PLACED DIRECTLY INTO RECEIVING WATERS.
2. SEDIMENT CONTROL BAGS SHALL BE DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS. BAGS MAY NOT BE REUSED.







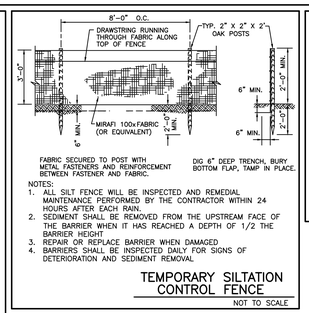
INLET PROTECTION FOR TYPE A, C OR E INLETS
NOT TO SCALE



MAINTENANCE NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO ROADWAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO ROADWAYS OR OTHER IMPERVIOUS SURFACES MUST BE REMOVED IMMEDIATELY.
2. WHERE ACCUMULATION OF DUST/SEDIMENT IS INADEQUATELY CLEANED OR REMOVED BY CONVENTIONAL METHODS, A POWER BROOM OR STREET SWEEPER WILL BE REQUIRED TO CLEAN PAVED OR IMPERVIOUS SURFACES. ALL OTHER ACCESS POINTS WHICH ARE NOT STABILIZED SHALL BE BLOCKED OFF.

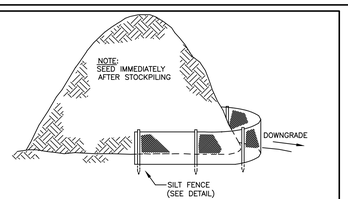
VEHICLE WHEEL–CLEANING BLANKET
NOT TO SCALE



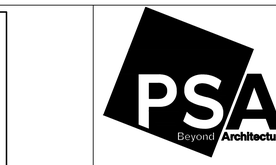
NOTES:

1. ALL SILT FENCE WILL BE INSPECTED AND REMEDIAL MAINTENANCE PERFORMED BY THE CONTRACTOR WITHIN 24 HOURS AFTER EACH RAIN.
2. SEDIMENT SHALL BE REMOVED FROM THE UPSTREAM FACE OF THE BARRIER WHEN IT HAS REACHED A DEPTH OF 1/2 THE BARRIER HEIGHT
3. REPAIR OR REPLACE BARRIER WHEN DAMAGED
4. BARRIERS SHALL BE INSPECTED DAILY FOR SIGNS OF DETERIORATION AND SEDIMENT REMOVAL

TEMPORARY SILTATION CONTROL FENCE
NOT TO SCALE



TYPICAL TOPSOIL STOCKPILE



LOCATION MAP – NOT TO SCALE

SOIL EROSION AND SEDIMENT CONTROL NOTES
FREEHOLD SOIL CONSERVATION DISTRICT

1. THE FREEHOLD SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY SOIL DISTURBING ACTIVITY.
2. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
3. ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLANS WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT FOR RE-CERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT STATE SOIL EROSION AND SEDIMENT CONTROL STANDARDS.
4. N.J.S.A 4:24–39 ET. SEQ. REQUIRES THAT NO CERTIFICATES OF OCCUPANCY BE ISSUED BEFORE THE DISTRICT DETERMINES THAT A PROJECT OR PORTION THEREOF IS IN FULL COMPLIANCE WITH THE CERTIFIED PLAN AND STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY AND A REPORT OF COMPLIANCE HAS BEEN ISSUED, UPON WRITTEN REQUEST FROM THE APPLICANT, THE DISTRICT MAY ISSUE A REPORT OF COMPLIANCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
5. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN SIXTY (60) DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF 2 TO 2 ½ TONS PER ACRE, ACCORDING TO STATE STANDARD FOR STABILIZATION WITH MULCH ONLY.
6. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AND A MULCH ANCHOR, IN ACCORDANCE WITH STATE STANDARDS.
7. A SUB–BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS TO STABILIZE STREETS, ROADS, DRIVEWAYS, AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB–BASE SHALL BE INSTALLED WITHIN FIFTEEN (15) DAYS OF THE PRELIMINARY GRADING.
8. THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A PAD OF CLEAN CRUSHED STONE AT POINTS WHERE TRAFFIC WILL BE ACCESSING THE CONSTRUCTION SITE. AFTER INTERIOR ROADWAYS ARE PAVED, INDIVIDUAL LOTS REQUIRE A STABILIZED CONSTRUCTION ENTRANCE CONSISTING OF ONE INCH TO TWO INCH (1" - 2") STONE FOR A MINIMUM LENGTH OF TEN FEET (10') EQUAL TO THE LOT ENTRANCE WIDTH. ALL OTHER ACCESS POINTS SHALL BE BLOCKED OFF.
9. ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHT–OF–WAYS WILL BE REMOVED IMMEDIATELY.
10. PERMANENT VEGETATION IS TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING.
11. AT THE TIME THAT SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT IT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON–VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
12. IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE ULTIMATELY PLACED OR BURIED WITH LIMESTONE APPLIED AT THE RATE OF 10 TONS/ACRE, (OR 450 LBS/50 FT OF SURFACE AREA) AND COVERED WITH A MINIMUM OF 12" OF SETTLED SOIL WITH A PH OF 5 OR MORE, OR 24 WHERE TREES OR SHRUBS ARE TO BE PLANTED.
13. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
14. UNFILTERED DEWATERING IS NOT PERMITTED. NECESSARY PRECAUTIONS MUST BE TAKEN DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER. ANY DEWATERING METHODS USED MUST BE IN ACCORDANCE WITH THE STANDARD FOR DEWATERING.
15. SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET, TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED AS REQUIRED BY THE STANDARD FOR DUST CONTROL.
16. STOCKPILE AND STAGING LOCATIONS ESTABLISHED IN THE FIELD SHALL BE PLACED WITHIN THE LIMIT OF DISTURBANCE ACCORDING TO THE CERTIFIED PLAN. STAGING AND STOCKPILES NOT LOCATED WITHIN THE LIMIT OF DISTURBANCE WILL REQUIRE CERTIFICATION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN. CERTIFICATION OF A NEW SOIL EROSION AND SEDIMENT CONTROL PLAN MAY BE REQUIRED FOR THESE ACTIVITIES IF AN AREA GREATER THAN 5,000 SQUARE FEET IS DISTURBED.
17. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL NOTE #6.
18. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.

FREEHOLD SOIL CONSERVATION DISTRICT
4000 KOZLOSKI ROAD,
FREEHOLD, NJ 07728–5033
TEL (732) 683–8500
FAX (732) 683–9140
EMAIL: INFO@FREEHOLDSCD.ORG
REVISED MARCH 2014

SEQUENCE OF CONSTRUCTION

TIME (WEEKS)	WORK DESCRIPTION
1	INSTALL PERIMETER SEDIMENT BARRIER (SILT FENCE), STABILIZED CONSTRUCTION ENTRANCE AND SOIL EROSION MEASURES INCLUDING TREE PROTECTION WHERE SHOWN ON THE PLAN.
4	PERFORM DEMOLITION OPERATIONS REQUIRED FOR PAVING CONSTRUCTION.
4	CONSTRUCT STORM WATER MANAGEMENT SYSTEM.
4	PERFORM EARTHWORK OPERATIONS.
8	CONSTRUCT NEW CURBS, WALLS, WALKWAYS, AND PLAY STRUCTURES.
2	CONSTRUCT BALANCE OF SITE WORK.
2	RESTORE LAWN AREAS PER SEEDING SPECIFICATIONS.
1	WHEN SITE IS COMPLETELY AND PERMANENTLY STABILIZED, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES.
CONTINUOUS	MAINTENANCE OF ALL SOIL EROSION CONTROL MEASURES. TRACKING PADS SHALL BE TOP–DRESSED AS NEEDED TO PROVIDE A STABLE CONSTRUCTION ENTRANCE AND PROHIBIT TRACKING OF SILT AND SEDIMENT ONTO PUBLIC ROADWAYS. SILT FENCE SHALL BE CLEANED AND MAINTAINED IN AN UPRIGHT POSITION. INLET PROTECTION SHALL BE CLEANED AND MAINTAINED REGULARLY TO PROHIBIT DOWNSTREAM SILTATION WHILE MAINTAINING POSITIVE DRAINAGE.

THE ACTIVITIES LISTED ABOVE MAY OVERLAP. THE ESTIMATED CONSTRUCTION TIME FOR THIS PROJECT IS 3 MONTHS.

THE ABOVE SEQUENCE IS INTENDED FOR GUIDANCE PURPOSES ONLY, IN ORDER TO MINIMIZE DISTURBANCE AND EXPOSURE OF SITE SOILS. REFER TO MANDATORY CONSTRUCTION MILESTONES LISTED IN THE PROJECT MANUAL FOR SPECIFIC PHASING.

RESTORATION NOTES:

1. VEGETATED AREAS ADJACENT TO CONSTRUCTION SHALL BE RESTORED AS LAWN AND ADDITIONAL SCREENED TOPSOIL SHALL BE CONSTRUCTED AS NEEDED TO MEET NEW SURFACES FLUSH. FINISH THE TOPSOIL WITH A SURFACE GRADE OF AT LEAST 1.5 PERCENT WHENEVER POSSIBLE, TO MAINTAIN POSITIVE OVERLAND DRAINAGE.
2. RE–GRADE AREAS ALONGSIDE NEW PAVEMENT, CURBING, AND SIDEWALKS TO MEET SURFACES FLUSH. IN NO CASE SHALL TOPSOIL BE MORE THAN 1/2 INCH BELOW THE ADJACENT PAVEMENT SURFACE.

SOIL TYPE:
ENTIRE SITE IS WITHIN KkuB – KLINESVILLE–URBAN LAND COMPLEX, 0–6 PERCENT SLOPES SOIL TYPE.

SOIL RESTORATION, DE–COMPACTION, AND TESTING REQUIREMENTS:

THE PROJECT SITE IS LOCATED WITHIN A METROPOLITAN PLANNING AREA ACCORDING TO THE STATE PLAN POLICY MAP. THE EXISTING SITE IS NOT COVERED IN WOODY VEGETATION, THEREFORE THIS SITE IS EXCLUDED FROM SOIL RESTORATION REMEDIATION REQUIREMENTS.

DUST CONTROL NOTES:
ANY OF THE FOLLOWING METHODS SHALL BE USED FOR DUST CONTROL:

1. MULCHES: SEE STABILIZATION SPECIFICATIONS.
2. TILLAGE: TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL–TYPE PLOWS SPACED APPROXIMATELY 12" APART AND SPRING–TOOTHED HARROWS ARE EXMAPLED OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.
3. SPRINKLING: THE SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET.
4. BARRIERS: BALES OF HAY AND/OR SILT STOP FENCES CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.

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PROPOSED IMPROVEMENTS FOR EDUCATIONAL SERVICES COMMISSION OF NEW JERSEY:

PISCATAWAY OUTDOOR PLAY AREA

1670 STELTON ROAD,
PISCATAWAY, NJ, 08854
BLOCK: 9201 LOT: 46.12

EDWARDS ENGINEERING GROUP
AN L2A COMPANY
Certificate of Authorization: 24GA28130900
P.O. Box 8437 * Somerville, NJ * 08876-8437
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BETH E. KENDERDINE, P.E. 05-29-26
Professional Engineer NJ Lic. No. GE45532 Date
EEG 1694A

1 06/15/26 ADDENDUM #01
- 05/29/26 ISSUED FOR BIDDING

REV	DATE	REMARK

Gregory J. Somjen A.I.A., CID
Connecticut Architect 8622
Delaware Architect 6116
Massachusetts Architect 9629
NCARB Registration 47178
New Jersey Architect 13349
New York Architect 32435
North Carolina Architect 16879

William H. Bannister, A.I.A. LEEDap
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NCARB Registration 96145
New Jersey Architect 19142
New York Architect 47812
North Carolina Architect 15027
Pennsylvania Architect RA409555
South Carolina Architect 10382

Richard J. Trautwein, A.I.A.
New Jersey Architect 12199

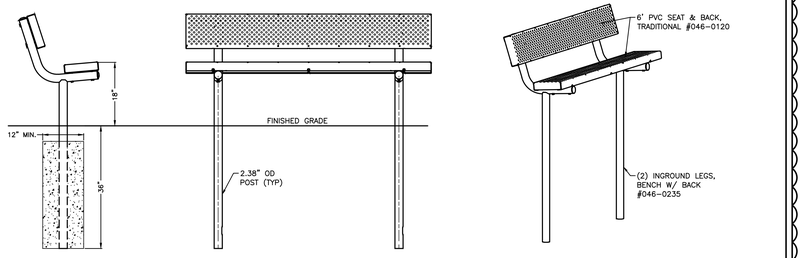
SIGNATURE

SOIL EROSION & SEDIMENT CONTROL PLAN

THE SCALE REPRESENTED ON THESE DRAWINGS IS ONLY VALID IF THE DRAWING IS 42" x 30". DRAWINGS WHICH ARE NOT PLOTTED AT THE SPECIFIED SHEET SIZE ARE NOT TO SCALE.

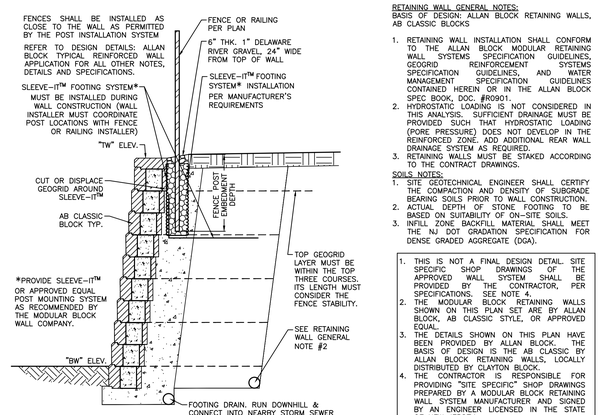
10552	SHEET NUMBER
PROJECT NUMBER	C-7.0
05/29/2026	
RELEASE DATE	
TFB	EEG BEK
PROJECT MANAGER	DRAWN BY CHECKED BY

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1 6' STATIONARY TRADITIONAL BENCH
NOT TO SCALE

NOTES:
1. BENCH TO BE "6' PVC, TRADITIONAL BENCH W/ BACK, STATIONARY" ITEM #580-0172 AS MANUFACTURED BY BCI BURKE CO. OR APPROVED EQUAL. APPROVED EQUAL MUST BE FROM SAME MANUFACTURER AS APPROVED PLAY EQUIPMENT.
2. FOOTING SIZE APPROXIMATE. FOLLOW FOOTING DETAIL AS PROVIDED BY MANUFACTURER.
3. COLOR BY OWNER



6 MODULAR BLOCK RETAINING WALL WITH FENCE IN LAWN
NOT TO SCALE

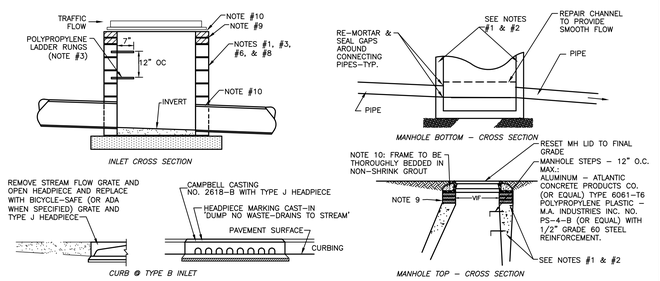
RETAINING WALL GENERAL NOTES:
BASIS OF DESIGN: ALLAN BLOCK RETAINING WALLS, AB CLASSIC BLOCKS

1. RETAINING WALL INSTALLATION SHALL CONFORM TO THE ALLAN BLOCK MODULAR RETAINING WALL SYSTEMS SPECIFICATION GUIDELINES, GEOGRID REINFORCEMENT SYSTEMS SPECIFICATION GUIDELINES, AND WATER MANAGEMENT SPECIFICATION GUIDELINES CONTAINED HEREIN OR IN THE ALLAN BLOCK SPEC BOOK; DOC. #R0901.
2. HYDROSTATIC LOADING IS NOT CONSIDERED IN THIS ANALYSIS. SUFFICIENT DRAINAGE MUST BE PROVIDED SUCH THAT HYDROSTATIC LOADING (PORE PRESSURE) DOES NOT DEVELOP IN THE REINFORCED ZONE. ADD ADDITIONAL REAR WALL DRAINAGE SYSTEM AS REQUIRED.
3. RETAINING WALLS MUST BE STAKED ACCORDING TO THE CONTRACT DRAWINGS.

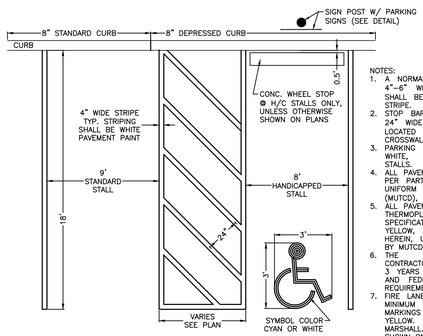
SOILS NOTES:
1. SITE GEOTECHNICAL ENGINEER SHALL CERTIFY THE COMPACTION AND DENSITY OF SUBGRADE BEARING SOILS PRIOR TO WALL CONSTRUCTION.
2. ACTUAL DEPTH OF STONE FOOTING TO BE BASED ON SUITABILITY OF ON-SITE SOILS.
3. INFILL ZONE BACKFILL MATERIAL SHALL MEET THE NJ DOT GRADATION SPECIFICATION FOR DENSE GRADED AGGREGATE (DGA).

1. THIS IS NOT A FINAL DESIGN DETAIL. SITE SPECIFIC SHOP DRAWINGS OF THE APPROVED WALL SYSTEM SHALL BE PROVIDED BY THE CONTRACTOR, PER SPECIFICATIONS. SEE NOTE 4.
2. THE MODULAR BLOCK RETAINING WALLS SHOWN ON THIS PLAN SET ARE BY ALLAN BLOCK, AB CLASSIC STYLE, OR APPROVED EQUAL.
3. THE DETAILS SHOWN ON THIS PLAN HAVE BEEN PROVIDED BY ALLAN BLOCK. THE BASIS OF DESIGN IS THE AB CLASSIC BY ALLAN BLOCK RETAINING WALLS, LOCALLY DISTRIBUTED BY CLAYTON BLOCK.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING "SITE SPECIFIC" SHOP DRAWINGS PREPARED BY A MODULAR BLOCK RETAINING WALL SYSTEM MANUFACTURER AND SIGNED BY AN ENGINEER LICENSED IN THE STATE OF NEW JERSEY.
5. GEOTECHNICAL OVERSIGHT IS REQUIRED. PLEASE REFER TO THE SPECIFICATIONS.

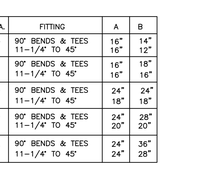
GENERAL NOTES
1. INSPECT CHAMBER WALL FOR MISSING OR LOOSE BLOCK AND REMOVE SAME. IT MAY BE NECESSARY TO REMOVE SOLID BLOCK TO ACCESS LOOSE BLOCK.
2. CLEAN BLOCK OF ALL MORTAR. REPLACE ANY BLOCK THAT CANNOT BE RE-USED. RE-MORTAR BLOCKS TO EXISTING WALLS USING MORTAR PER PROJECT SPECIFICATIONS.
3. PROVIDE POLYPROPYLENE LADDER RUNGS AT 12" O.C. MAXIMUM, INCLUDE UP TO 4 LADDER RUNGS PER STRUCTURE.
4. REPLACE OPEN TYPE B INLET HEAD PIECES WITH THE ECO FRIENDLY STYLE SHOWN BELOW.
5. REPLACE STREAM FLOW GRATE WITH BICYCLE SAFE GRATES. USE ADA GRATES WHEN LOCATED WITHIN WALKWAYS AND SIMILAR PEDESTRIAN AREAS.
6. INCLUDE ALL EXCAVATION COST TO EXPOSE THE EXTERIOR OF THE CHAMBER AS NEEDED TO REPAIR THE STRUCTURE & BACKFILL WITH DGA PER NJ DOT SPECS.
7. SAWCUT PAVEMENT AROUND EACH INLET/MANHOLE AS NEEDED. DEMOLISH PAVEMENT TO THE EXTENT NEEDED FOR RECONSTRUCTION WORK.
8. BACKFILL AROUND THE STRUCTURE WITH COMPACTED DENSE GRADED AGGREGATE AND RECONSTRUCT WITH FULL DEPTH HEAVY DUTY PAVEMENT CROSS SECTION.
9. ADD/REMOVE BRICK (OR PRE-CAST RINGS) AS NEEDED TO RESET THE CASTING TO FINAL GRADE, PER THE GRADING & DRAINAGE PLANS
10. RE-MORTAR CASTING TO STRUCTURE AND SEAL ALL GAPS AROUND CONNECTING PIPES.



12 MANHOLE & INLET RECONSTRUCTION
NOT TO SCALE



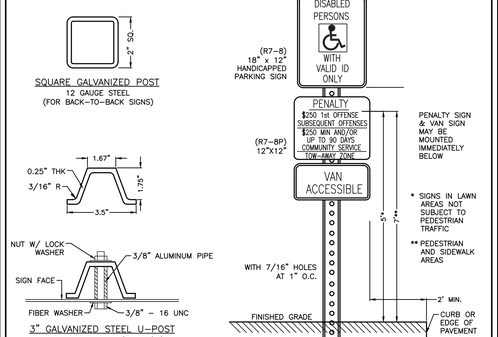
STALL MARKINGS



CROSSWALK STRIPES
WHITE PAINT

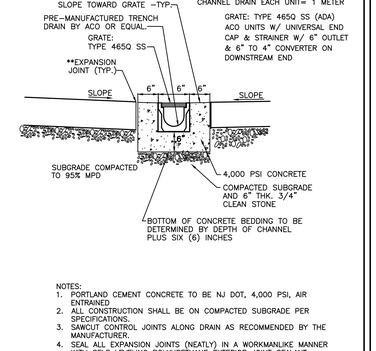
NOTES:
1. A NORMAL WIDTH LINE SHALL BE 4"-6" WIDE, DOUBLE CENTERLINE SHALL BE 4" STRIPE, 4" GAP, 4" STRIPE.
2. STOP BARS SHALL BE A MINIMUM 24" WIDE, WHITE, AND SHALL BE LOCATED 4' AHEAD OF A CROSSWALK.
3. PARKING STALL LINES SHALL BE WHITE, EXCEPT BARRIER-FREE STALLS.
4. ALL PAVEMENT MARKINGS SHALL BE PER PART 3 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
5. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PER NJDOT SPECIFICATIONS, COLOR WHITE, YELLOW, OR BLUE AS SPECIFIED HEREIN, UNLESS NOTES OTHERWISE BY MUTCD.
6. THE PAVEMENT MARKING CONTRACTOR SHALL HAVE AT LEAST 3 YEARS EXPERIENCE WITH NJDOT AND FEDERAL PAVEMENT MARKING REQUIREMENTS.
7. FIRE LANE LETTERING SHALL BE A MINIMUM OF 24 INCHES HIGH & MARKINGS SHALL TYPICALLY BE YELLOW. VERIFY WITH LOCAL FIRE MARSHALL. A SAMPLE LAYOUT IS SHOWN ON THE PLANS.
8. DIAGONAL STRIPING, DENOTING "NO PARKING" AREAS SHALL TYPICALLY BE YELLOW, UNLESS NOTED OTHERWISE.

2 PAVEMENT MARKINGS
NOT TO SCALE



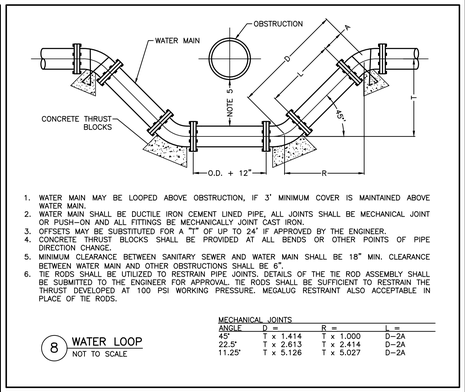
NOTES:
1. ALL SIGNS SHALL BE INSTALLED AS SHOWN FOR THE HANDICAPPED SIGN ON THIS DETAIL. DOUBLE FACED (BACK TO BACK) SIGNS SHALL HAVE A SQUARE POST AS SHOWN.
2. ALL SIGN BLANKS SHALL BE MANUFACTURED PER U.S BUREAU OF PUBLIC ROADS STANDARDS AND SHALL BE TREATED PER ASTM B449.
3. THE SIGN FINISH SHALL BE ENGINEER GRADE.
4. ALL SIGN POSTS SHALL HAVE PRE-DRILLED HOLES, 7/16" @ 1" O.C.
5. SIGNS SHOWN ALONG DRIVEWAYS, ROADWAYS, AND PARKING LOTS SHALL BE POSITIONED TO THE NEAREST SIGN EDGE IS AT LEAST 2 FEET FROM THE TRAVELED WAY, WHENEVER POSSIBLE.
6. ALL SIGNS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
7. SIGN POST BASES SHALL BE EQUIPPED WITH BREAKAWAY HARDWARE.

3 TRAFFIC SIGNS WITH TYPICAL POSTS
NOT TO SCALE



NOTES:
1. PORTLAND CEMENT CONCRETE TO BE NJ DOT, 4,000 PSI, AIR ENTRAINED
2. ALL CONSTRUCTION SHALL BE ON COMPACTED SUBGRADE PER SPECIFICATIONS.
3. SAWCUT CONTROL JOINTS ALONG DRAIN AS RECOMMENDED BY THE MANUFACTURER.
4. SEAL ALL EXPANSION JOINTS (NEATLY) IN A WORKMANLIKE MANNER WITH SELF LEVELING POLYURETHANE EXTERIOR JOINT SEALANT, QUIK-RETE SEALANT 8660, SIKAFLEX OR EQUAL.

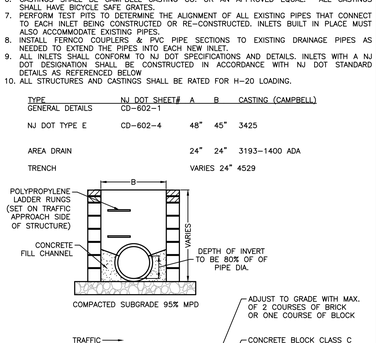
7 PRE-MANUFACTURED TRENCH DRAIN
NOT TO SCALE



1. WATER MAIN MAY BE LOOPED ABOVE OBSTRUCTION, IF 3' MINIMUM COVER IS MAINTAINED ABOVE WATER MAIN.
2. WATER MAIN SHALL BE DUCTILE IRON CEMENT LINED PIPE, ALL JOINTS SHALL BE MECHANICAL JOINT OR PUSH-ON AND ALL FITTINGS BE MECHANICALLY JOINT CAST IRON.
3. OFFSETS MAY BE SUBSTITUTED FOR A "T" OF UP TO 24' IF APPROVED BY THE ENGINEER.
4. CONCRETE THRUST BLOCKS SHALL BE PROVIDED AT ALL BENDS OR OTHER POINTS OF PIPE DIRECTION CHANGE.
5. MINIMUM CLEARANCE BETWEEN SANITARY SEWER AND WATER MAIN SHALL BE 18" MIN. CLEARANCE BETWEEN WATER MAIN AND OTHER OBSTRUCTIONS SHALL BE 6".
6. TIE RODS SHALL BE UTILIZED TO RESTRAIN PIPE JOINTS. DETAILS OF THE TIE ROD ASSEMBLY SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. TIE RODS SHALL BE SUFFICIENT TO RESTRAIN THE THRUST DEVELOPED AT 100 PSI WORKING PRESSURE. MEGALUG RESTRAINT ALSO ACCEPTABLE IN PLACE OF TIE RODS.

MECHANICAL JOINTS			
ANGLE	D =	R =	L =
45°	T x 1.414	T x 1.000	D-2A
22.5°	T x 2.613	T x 2.414	D-2A
11.25°	T x 5.126	T x 5.027	D-2A

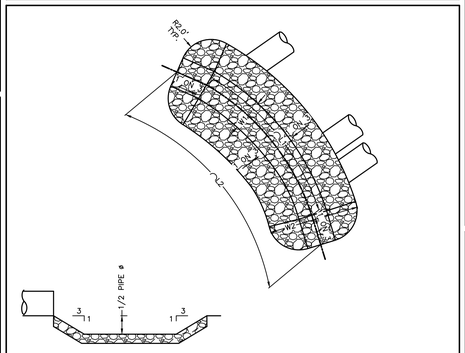
8 WATER LOOP
NOT TO SCALE



13 INLET CONSTRUCTION
NOT TO SCALE

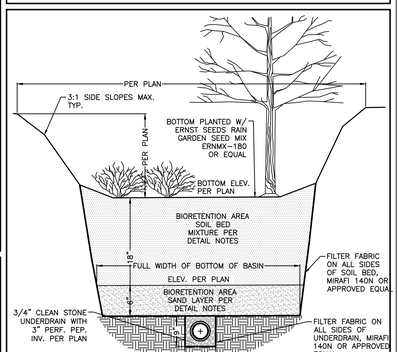
GENERAL NOTES:
1. FOOTING TO BE NJDOT CLASS 'C' CONCRETE, 3000 PSI. FOR PRECAST INLETS USE 6" OF 3/4" CLEAN STONE.
2. CONCRETE CHANNELS (INVERTS) TO BE NJDOT CLASS 'C' CONCRETE, 3000 PSI.
3. IF WALL CONSTRUCTION IS OTHER THAN CONCRETE, THEN THE WALLS SHALL BE PLASTERED INSIDE & OUT WITH A 1/2" THICK CEMENT PLASTER.
4. PROVIDE POLYPROPYLENE LADDER RUNGS AT 12" O.C. MAXIMUM.
5. ALL PRECAST STRUCTURES SHALL RECEIVE BITUMASTIC TAR COAT OUTSIDE ONLY.
6. CASTINGS SHALL BE CAMPBELL CASTING CO. OR AN APPROVED EQUAL. ALL CASTINGS SHALL HAVE BICYCLE SAFE GRATES.
7. PERFORM TEST PITS TO DETERMINE THE ALIGNMENT OF ALL EXISTING PIPES THAT CONNECT TO EACH INLET BEING CONSTRUCTED OR RE-CONSTRUCTED. INLETS BUILT IN PLACE MUST ALSO ACCOMMODATE EXISTING PIPES.
8. INSTALL FERNCO COUPLERS & PVC PIPE SECTIONS TO EXISTING DRAINAGE PIPES AS NEEDED TO EXTEND THE PIPES INTO EACH NEW INLET.
9. ALL INLETS SHALL CONFORM TO NJ DOT SPECIFICATIONS AND DETAILS. INLETS WITH A NJ DOT DESIGNATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH NJ DOT STANDARD DETAILS AS REFERENCED BELOW
10. ALL STRUCTURES AND CASTINGS SHALL BE RATED FOR H-20 LOADING.

TYPE	NJ DOT SHEET #	A	B	CASTING (CAMPBELL)
GENERAL DETAILS	CD-602-1			
NJ DOT TYPE E	CD-602-4	48"	45°	3425
AREA DRAIN		24"	24"	3193-1400 ADA
TRENCH		VARIES	24"	4529



SCOUR HOLE	D	W1	W2	L1	L2	d50	THK
BIORETENTION BASIN	4"	3.00'	6.0'	2.0'	15.0'	6"	12"

11 SCOUR HOLE
NOT TO SCALE



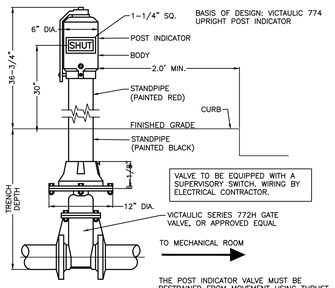
NOTES:
1. THE SOIL BED MATERIAL MUST CONSIST OF THE FOLLOWING MIX, BY WEIGHT: 85 TO 95% SAND, WITH NO MORE THAN 25% OF THE SAND AS FINE OR VERY FINE SANDS; NO MORE THAN 15% SILT AND CLAY WITH 2% TO 5% CLAY CONTENT. THE ENTIRE MIX MUST THEN BE AMENDED WITH 3 TO 7% ORGANICS, BY WEIGHT.
2. PRE-MIXED SOIL MUST BE CERTIFIED TO BE CONSISTENT WITH THE REQUIREMENT ABOVE BY EITHER THE VENDOR OR BY A PROFESSIONAL ENGINEER LICENSED BY THE STATE OF NEW JERSEY. THE CONTENT OF ANY SOIL MIXED ON-SITE MUST BE CERTIFIED BY A PROFESSIONAL ENGINEER LICENSED BY THE STATE OF NEW JERSEY; IN ADDITION, THE ENGINEER MUST BE PRESENT WHILE THE SOIL IS MIXED.
3. THE PH OF THE SOIL BED MATERIAL MUST RANGE FROM 5.5 TO 6.5.
4. THE SOIL BED MATERIAL MUST BE PLACED IN LIFTS NOT TO EXCEED 8 INCHES. ADDITIONAL MATERIALS MAY BE NECESSARY TO ACCOUNT FOR SETTLING OVER TIME.
5. THE SAND LAYER, WHICH ACTS AS A TRANSITION BETWEEN THE SOIL BED AND THE SUBSEQUENT LAYERS, MUST BE AT LEAST 6 INCHES IN DEPTH AND MUST CONSIST OF CLEAN, MEDIUM-AGGREGATE CONCRETE SAND (AASHTO M-6/ASTM C-33). TO ENSURE PROPER SYSTEM OPERATION, THE PERMEABILITY RATE OF THE SAND LAYER MUST BE AT LEAST TWICE THE DESIGN PERMEABILITY RATE OF THE SOIL BED.

14 BIORETENTION AREA SECTION
NOT TO SCALE

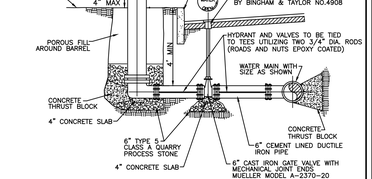
PIPE DIA.	FITTING	A	B
4"/6"	90° BENDS & TEES 11-1/4° TO 45°	16" 16"	14" 12"
8"	90° BENDS & TEES 11-1/4° TO 45°	16" 16"	18" 16"
10"	90° BENDS & TEES 11-1/4° TO 45°	24" 18"	24" 18"
12"	90° BENDS & TEES 11-1/4° TO 45°	24" 20"	28" 20"
16"	90° BENDS & TEES 11-1/4° TO 45°	24" 24"	36" 28"

NOTES:
1. ALL THRUST BLOCKS TO BE POURED AGAINST UNDISTURBED SOIL.
2. ALL JOINTS TO BE CLEAR OF CONCRETE.

4 CONCRETE THRUST BLOCKS
NOT TO SCALE



5 POST INDICATOR VALVE
NOT TO SCALE



9 HYDRANT ASSEMBLY
NOT TO SCALE

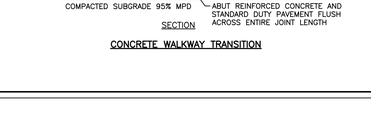


SPOT ELEVATIONS SHOWN ON GRADING PLAN ARE THE FINISHED SURFACE OF PAVEMENT. ADD DEPTH OF RESILIENT SURFACING (14± MM) TO DETERMINE FINISHED SURFACE OF TRACK OR EVENT AREA.

RESILIENT SURFACE TO CONSIST OF: TWO LAYER SANDWICH STYLE POLYURETHANE TRACK SYSTEM, 14± MM (0.55 IN) THICK

NOTES:
1. BASIS OF DESIGN ALL-WEATHER SURFACING IS A SANDWICH-STYLE POLYURETHANE BASED SYSTEM, ±14 MM THICK. ACCEPTABLE PRODUCTS INCLUDE BSS 300 EMBEDDED BY BEYNON, REKORTAN M BY REKORTAN, OR APPROVED EQUAL.
2. RESILIENT SURFACE CONSTRUCTION REQUIRES A HIGH LEVEL OF PAVING PRECISION TO MEET THE STRICT TOLERANCES ALLOWED IN THESE SPECIFICATIONS. ONLY PAVING CONTRACTORS WITH PROVEN SUCCESS IN THE CONSTRUCTION OF NOT LESS THAN 5 RUNNING TRACKS SHALL PERFORM THIS WORK.
3. PERFORM A TOPOGRAPHIC SURVEY OF THE FINISHED ASPHALT SURFACE, PRIOR TO CONSTRUCTING THE ALL-WEATHER SURFACE.
4. SPOT ELEVATIONS SHOWN ON THE GRADING PLAN ARE TO FINISHED PAVEMENT.

10 ALL-WEATHER RESILIENT SURFACE
NOT TO SCALE



SECTION

CONCRETE WALKWAY TRANSITION

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PROPOSED IMPROVEMENTS FOR EDUCATIONAL SERVICES COMMISSION OF NEW JERSEY:

PISCATAWAY OUTDOOR PLAY AREA

1670 STELTON ROAD,
PISCATAWAY, NJ, 08854
BLOCK: 9201 LOT: 46.12

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AN L2A COMPANY
Certificate of Authorization: 24GA28130900
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908.231.9595 Fax 908.231.9696
BETH E. KENDERDINE, P.E. 05-29-26
Professional Engineer NJ Lic. No. GE45532 Date
EEG 1694A

REV	DATE	REMARK
1	06/15/26	ADDENDUM #01
-	05/29/26	ISSUED FOR BIDDING

- Gregory J. Somjen A.I.A., CID
  - Connecticut Architect 8622
  - Delaware Architect 6116
  - Massachusetts Architect 9629
  - NCARB Registration 47178
  - New Jersey Architect 13349
  - New York Architect 32435
  - North Carolina Architect 16879
- William H. Bannister, A.I.A. LEEDap
  - Connecticut Architect 14499
  - NCARB Registration 96145
  - New Jersey Architect 19142
  - New York Architect 47812
  - North Carolina Architect 15027
  - Pennsylvania Architect RA-609555
  - South Carolina Architect 10382
- Richard J. Trautwein, A.I.A.
  - New Jersey Architect 12199

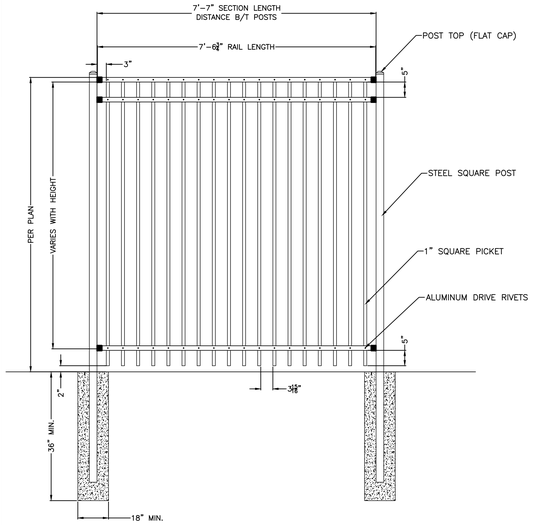
SIGNATURE

DETAILS

THE SCALE REPRESENTED ON THESE DRAWINGS IS ONLY VALID IF THE DRAWING IS 42" x 30". DRAWINGS WHICH ARE NOT PLOTTED AT THE SPECIFIED SHEET SIZE ARE NOT TO SCALE.

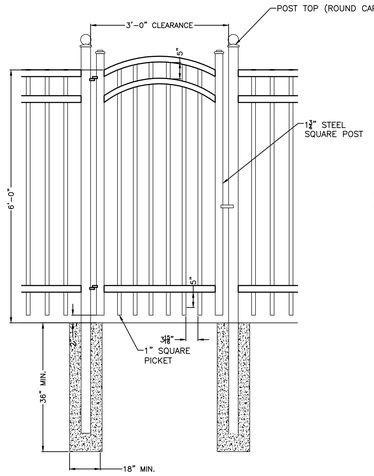
10552	SHEET NUMBER
PROJECT NUMBER	C-8.1
05/29/2026	
RELEASE DATE	
TFB	EEG
PROJECT MANAGER	DRAWN BY
BEK	CHECKED BY

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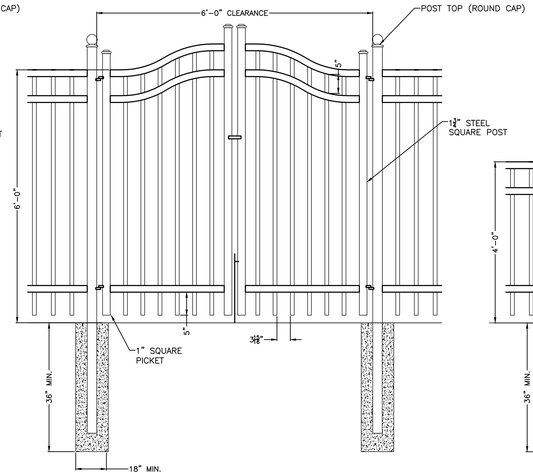


1 ORNAMENTAL METAL FENCE
NOT TO SCALE

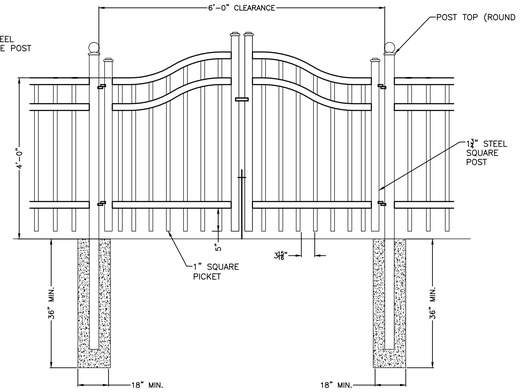
NOTES:
1. POST SIZE: 3" X 11 GA
2. PICKET SIZE: 1" X 18 GA
3. RAIL: 1-3/4" SQ X 11 GA
4. CAP STYLE: FLAT STYLE
5. COLOR: BY OWNER FROM STANDARD COLORS.



A – 3' WIDE SINGLE SWING GATE



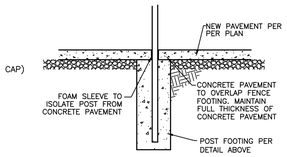
B – 6' WIDE DOUBLE SWING GATE



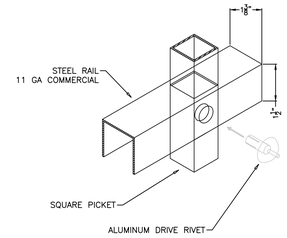
C – 12' WIDE DOUBLE SWING GATE

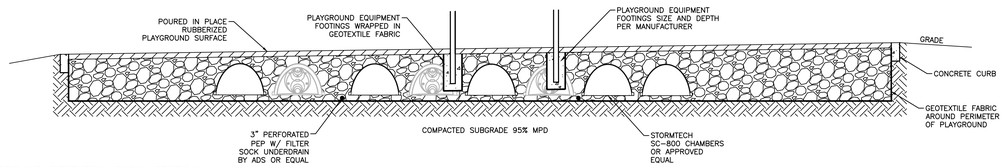
NOTES:
1.) BASIS OF DESIGN IS THE INTREPID STEEL FENCING COMMERCIAL "HAWK" FENCE & "ARCH HAWK" GATES WITH 1 INCH PICKETS. THE FENCE HEIGHT SHALL BE A MINIMUM OF 48 INCHES AS MEASURED FROM THE BASE OF THE FENCE POST TO THE TOP RAIL. SUBSTITUTIONS ARE PERMITTED, PROVIDED EQUIVALENCE OR SUPERIORITY IS DEMONSTRATED.
2.) ALL MATERIALS AND HARDWARE SHALL BE INDUSTRIAL GRADE.
3.) SOME CUSTOM FENCE SECTIONS MAY BE NEEDED TO FOLLOW THE ALIGNMENT OF RETAINING WALLS AND TO TRANSITION TO ALIGN. VERIFY IN THE FIELD.
4.) THE MANUFACTURER'S FULL LINE OF CUSTOM COLORS MUST BE AVAILABLE AND INCLUDED IN THE CONTRACT.

SITE FENCING INSTALLATION NOTES:
1. THE MAXIMUM GAP BETWEEN THE BOTTOM FENCE RAIL AND FINISHED GRADE IS 3 INCHES. TWO (2) INCHES IS PREFERRED.
2. THE MAXIMUM GAP BETWEEN A FENCE POST AND SPINDLE (BALUISTER) MUST BE LESS THAN FOUR (4) INCHES.
3. VERIFY THE EXACT DEPTH AND LOCATION OF UNDERGROUND PIPING AND UTILITIES AND POSITION ALL NEW FENCE POSTS TO CLEAR THESE UTILITIES/PIPES. IN THE CASE OF CONFLICTS USE SHALLOWER AND WIDER FENCE POST BASES TO AVOID SHIFTING THE DESIRED LOCATION, IF POSSIBLE.
4. LOCATE THE FACE OF NEW FENCE POSTS APPROXIMATELY THREE (3) INCHES FROM THE EDGE OF RETAINING WALLS. SEE PLANS FOR ACTUAL DIMENSIONS.
5. END FENCE POSTS SHALL BE NOT MORE THAN THREE (3) INCHES FROM EXISTING WALLS.
6. SET ALL FENCE POSTS PLUMB AND ALL FENCE RAILS LEVEL, EXCEPT WHEN THE FENCE IS LOCATED ON A SLOPING WALL OR RAMP. IN THIS CASE, THE RAILS MAY BE RACKED, SO THAT THE RAILS ARE PARALLEL TO THE RAMP SURFACE. FENCE POSTS AND PICKETS SHALL BE VERTICAL.
7. SET THE TOP OF ALL FENCE POST FOOTINGS AT LEAST SIX (6) INCHES BELOW FINISHED GRADE SO THE SURFACE PAVEMENT COURSE WILL COVER THE FOOTING.
8. FOR FENCE POSTS PLACED IN PORTLAND CEMENT (RIGID) CONCRETE PAVEMENT, INSTALL A 1/2" ISOLATION JOINT (EXPANSION) AROUND EACH FENCE POST, BEFORE POURING THE CONCRETE SLAB. THIS REQUIREMENT DOES NOT APPLY TO FENCING THAT IS ANCHORED INTO CONCRETE WALLS OR RAMPS.
9. SEE POST MOUNT DETAIL ABOVE FOR MOUNTING POSTS IN CONCRETE WALLS.

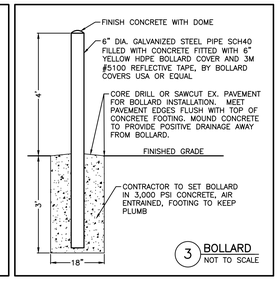


POST INSTALLED IN CONCRETE
NOT TO SCALE





2 UNDERGROUND DETENTION BASIN SECTION A-A
NOT TO SCALE



3 BOLLARD
NOT TO SCALE

PSA Beyond Architecture

Parette Somjen Architects
A Limited Liability Corporation
CERT. NO. 21AC00039800
439 Route 46 East
Rockaway, NJ 07866
Tel. 973.586.2400
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PROPOSED IMPROVEMENTS FOR
EDUCATIONAL SERVICES
COMMISSION OF NEW JERSEY:

PISCATAWAY OUTDOOR PLAY AREA

1670 STELTON ROAD,
PISCATAWAY, NJ, 08854
BLOCK: 9201 LOT: 46.12

EDWARDS ENGINEERING GROUP
AN L2A COMPANY
Certificate of Authorization: 24GA28130900
P.O. Box 8437 * Somerville, NJ * 08876-8437
908.231.9595 Fax 908.231.9696

BETH E. KENDERDINE, P.E. 05-29-26
Professional Engineer NJ Lic. No. GE45532 Date
EEG 1694A

1 06/15/26 ADDENDUM #01

REV	DATE	REMARK

- Gregory J. Somjen A.I.A., CID
  - Connecticut Architect 8622
  - Delaware Architect 6116
  - Massachusetts Architect 9629
  - NCARB Registration 47178
  - New Jersey Architect 13349
  - New York Architect 32435
  - North Carolina Architect 16879
- William H. Bannister, A.I.A. LEEDap
  - Connecticut Architect 14499
  - NCARB Registration 96145
  - New Jersey Architect 19142
  - New York Architect 47812
  - North Carolina Architect 15027
  - Pennsylvania Architect RA409555
  - South Carolina Architect 10382
- Richard J. Trautwein, A.I.A.
  - New Jersey Architect 12199

SIGNATURE

DETAILS

THE SCALE REPRESENTED ON THESE DRAWINGS IS ONLY VALID IF THE DRAWING IS 42" x 30". DRAWINGS WHICH ARE NOT PLOTTED AT THE SPECIFIED SHEET SIZE ARE NOT TO SCALE.

10552 PROJECT NUMBER	1 C-8.3
05/29/2026 RELEASE DATE	
TFB PROJECT MANAGER	EEG DRAWN BY / BEK CHECKED BY

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GENERAL STRUCTURAL NOTES

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS IN THE FIELD BEFORE COMMENCING WORK AND SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF DISCREPANCIES BEFORE BEGINNING WORK.

2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT BUILDING CODE OF THE GOVERNING AUTHORITIES.

3. THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS THAT MAY AFFECT THE WORK OR COST PRIOR TO SUBMITTING HIS BID.

4. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS AND THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES OR OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON NOR ISSUE DIRECTION AS TO SAFETY PRECAUTIONS AND PROGRAMS.

6. THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

7. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE METHODS, TECHNIQUES AND SEQUENCES OF PROCEDURES TO PERFORM THE WORK. THE SUPERVISION OF THE WORK IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

8. THE DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO THE APPROVAL BY THE ENGINEER.

9. ALL STRUCTURAL SYSTEMS WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH THE SUPPLIER'S INSTRUCTIONS AND REQUIREMENTS.

10. ALL ASTM AND OTHER REFERENCES ARE PER THE LATEST EDITIONS OF THESE STANDARDS, UNLESS OTHERWISE NOTED.

11. SHOP DRAWINGS AND OTHER ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR BEFORE SUBMITTAL. THE ENGINEER'S REVIEW IS FOR CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE RELEVANT CONTRACT DOCUMENTS. THE ENGINEER'S REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW, CHECK AND COORDINATE THE SHOP DRAWINGS PRIOR TO SUBMISSION. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, DIMENSIONS, ETC.

12. IN NO CASE SHALL A REPRODUCTION OF THE CONTRACT DRAWINGS BE USED AS SHOP DRAWINGS. AS A MINIMUM SUBMIT THE FOLLOWING ITEMS FOR REVIEW.
    A. CONCRETE DESIGN MIX
    B. REINFORCEMENT (REBAR) DRAWINGS
    C. STRUCTURAL STEEL SHOP DRAWINGS
    E. METAL DECK
    F. COLD-FORMED FRAMING (EXTERIOR WALLS AND PARAPET)

    OTHER SUBMITTALS MAY BE REQUIRED PER THE SPECIFICATIONS OR SEPARATE NOTES CONTAINED HEREIN.

DESIGN CRITERIA NOTES

1. THE INTENDED DESIGN STANDARDS AND/OR CRITERIA ARE AS FOLLOWS:

GENERAL	NJIBC 2021
MINIMUM DESIGN LOADS	ASCE 7-16
CONCRETE	ACI 318-19
MASONRY	TMS 402-2016

2. THIS STRUCTURE HAS BEEN DESIGNED WITH SAFETY FACTORS IN ACCORDANCE WITH GENERALLY ACCEPTED PRINCIPALS OF STRUCTURAL ENGINEERING. THE FUNDAMENTAL NATURE OF THE SAFETY FACTOR IS TO COMPENSATE FOR UNCERTAINTIES IN THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL BUILDING COMPONENTS. IT IS INTENDED THAT SAFETY FACTORS BE USED SO THAT THE LOAD CARRYING CAPACITY OF THE STRUCTURE DOES NOT FALL BELOW THE DESIGN LOAD AND THAT THE BUILDING WILL PERFORM UNDER THE DESIGN LOADS WITHOUT DISTRESS. WHILE THE USE OF SAFETY FACTORS IMPLIES SOME EXCESS CAPACITY BEYOND THE DESIGN LOADS, SUCH EXCESS CAPACITY CANNOT BE ACCURATELY PREDICTED AND SHALL NOT BE RELIED UPON.

EARTHWORK AND FOUNDATION NOTES

1. ALL SITE, SUBGRADE, AND FOUNDATION PREPARATION WORK SHALL BE PERFORMED UNDER THE DIRECTION OF A GEOTECHNICAL ENGINEER LICENSED IN THE STATE OF NEW JERSEY.

2. A LICENSED GEOTECHNICAL ENGINEER WILL BE RETAINED BY THE OWNER.

3. THE FOUNDATION HAS BEEN DESIGNED FOR THE PRESUMPTIVE NET SOIL BEARING CAPACITY INDICATED ON THE FOUNDATION PLAN(S). ALL FOOTINGS SHALL BEAR ON UNDISTURBED, FIRM NATURAL SOIL OR COMPACTED FILL. NET SOIL BEARING CAPACITY SHALL BE VERIFIED BY A LICENSED GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE. IF REQUIRED BY THE GEOTECHNICAL ENGINEER, LOWER THE BOTTOM OF FOOTINGS TO THE DEPTH THAT SATISFIES THE DESIGN SOIL BEARING CAPACITY, NOTIFY THE ENGINEER OF RECORD OF ANY CHANGES IN FOOTING DEPTHS.

4. ALL CONTROLLED FILL MATERIAL SHALL BE A SELECT GRANULAR MATERIAL FREE FROM ALL ORGANICS OR OTHERWISE DELETERIOUS MATERIAL WITH NOT MORE THAN 20% BY WEIGHT PASSING A NO. 200 SIEVE AND WITH A PLASTICITY INDEX NOT EXCEEDING 6% OR OTHER APPROVED MATERIAL. PLACE CONTROLLED FILL IN 8 INCH LOOSE LIFTS AND COMPACT TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D-698.

5. PRIOR TO COMMENCING ANY FOUNDATION WORK, COORDINATE WITH THE CIVIL, ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL DRAWINGS AND THE EXISTING UTILITIES. SEE DETAILS CONTAINED HEREIN FOR TYPICAL DETAILS OF PIPE AT FOOTING AND FOUNDATION WALL.

6. UNLESS OTHERWISE NOTED, THE CENTERLINES OF COLUMN FOUNDATIONS SHALL BE LOCATED ON THE COLUMN CENTERLINES.

7. TOP OF ALL PIERS TO BE 8" BELOW FINISHED FLOOR UNLESS NOTED ON THE PLAN.

8. TOP OF FOOTING TO MATCH TOP OF COLUMN FOOTING, STEP WALL FOOTING AS REQUIRED. SEE DETAILS CONTAINED HEREIN FOR FOOTING STEP.

9. EXTERIOR CONCRETE WALLS AND PIERS SHALL BE PLACED MONOLITHICALLY.

10. THE FOUNDATION PLANS SHOW SUGGESTED LOCATION OF CONSTRUCTION AND CONTROL JOINTS. THE CONTRACTOR SHALL SUBMIT A PLAN SHOWING THE LOCATION OF CONTROL AND CONSTRUCTION JOINTS FOR REVIEW BY THE ENGINEER.

11. ALL SURPLUS EXCAVATED MATERIAL SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR.

12. THE CONTRACTOR SHALL MAINTAIN AND OPERATE PROPER PUMPS OR OTHER EQUIPMENT AS REQUIRED TO KEEP EXCAVATION DRY DURING CONSTRUCTION

SLAB ON GRADE NOTES

1. REFER TO VAPOR MITIGATION SYSTEM DESIGN PLAN DATED MARCH 6, 2025 BY LANGAN ENGINEERING AND ENVIRONMENT SERVICES LLC FOR ALL UNDERSLAB PREPARATION AND MATERIALS INFORMATION INCLUDING BUT NOT LIMITED TO CRUSHED STONE, GEOTEXTILE AND VAPOR BARRIER AS REQUIRED PRIOR TO SLAB CONSTRUCTION.

2. ALL WELDED WIRE FABRIC SHALL BE IN ACCORDANCE WITH ASTM A-185. LAP ADJOINING PIECES AT LEAST ONE FULL MESH.

3. INSTALL ALL UNDERGROUND UTILITIES BEFORE PLACING CONCRETE FOR SLAB ON GRADE.

4. THE SLAB ON GRADE HAS FLOOR DRAINS AND OTHER OPENINGS. THE CONTRACTOR SHALL COORDINATE THE FOUNDATION DRAWING WITH THE OTHER TRADES FOR LOCATION AND ELEVATION OF ALL FLOOR DRAINS AND OPENINGS. REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS.

5. SLAB JOINTS SHALL BE FILLED WITH THE APPROVED JOINT FILLER MATERIAL. THIS SHOULD TAKE PLACE AS LATE AS POSSIBLE, PREFERABLY 4 TO 6 WEEKS AFTER THE SLAB HAS BEEN CAST. PRIOR TO FILLING, REMOVE ALL DEBRIS FROM THE SLAB JOINTS AND THEN FILL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

6. WALKWAYS AND OTHER EXTERIOR SLABS ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS. SEE THE CIVIL AND ARCHITECTURAL PLANS FOR LOCATIONS, DIMENSIONS, ELEVATIONS, JOINTING DETAILS AND FINISHING DETAILS.

7. THE WIRES OF THE WELDED WIRE FABRIC MUST BE PRECUT AT THE SLAB CONTRACTION JOINT LOCATIONS TO CREATE A WEAKENED PLANE.

8. THE USE OF POLYPROPYLENE FIBERS IN LIEU OF WELDED WIRE FABRIC IS PROHIBITED WITHOUT THE AUTHORIZATION OF THE ENGINEER.

9. SEE THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND DIMENSIONS OF DEPRESSED SLAB AREAS AND DRAINS, COORDINATE WITH THE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR THE EXACT LOCATIONS AND DIMENSIONS OF HOUSEKEEPING PADS.

CAST-IN-PLACE CONCRETE NOTES

1. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI-318) LATEST EDITION AND THE SPECIFICATIONS. ALSO COMPLY WITH THE LATEST EDITIONS OF THE FOLLOWING ACI PUBLICATIONS: ACI-301, ACI-302, ACI-304, ACI-305, ACI-308, ACI-309, ACI-315, ACI-347 AND ACI-211.1.

2. MATERIALS SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:

CEMENT, TYPE 1	C150
AGGREGATES	C33
REINFORCEMENT	A615
ADMIXTURES (EXCEPT AIR)	C494
CURING AND HARDENING COMPOUND	C309
READY MIX CONCRETE	C94
WELDED WIRE FABRIC	A185

3. THE COMPRESSIVE STRENGTH OF THE CONCRETE FOR EACH PORTION OF THE STRUCTURE SHALL BE AS DESIGNATED BELOW. THE STRENGTH REQUIREMENTS SHALL BE BASED ON 28-DAY TESTS UNLESS OTHERWISE DIRECTED.

    FOOTINGS
    (1) NORMAL WEIGHT CONCRETE
    (2) STRENGTH: 3,000 PSI AT 28 DAYS
    (3) AIR CONTENT: 4.5% TO 7.5%
    (4) SLUMP: 1" TO 3"
    (5) ADMIXTURES: WATER REDUCING AGENT (EUCON WR-75)
    (6) W/C RATIO: 0.50 MAXIMUM BY WEIGHT. MINIMUM 5.5 CEMENT BAGS PER CUBIC YARD.

    PIERS, SLABS AND WALLS
    (1) NORMAL WEIGHT CONCRETE
    (2) STRENGTH: 4,000 PSI AT 28 DAYS
    (3) AIR CONTENT: 4.5% TO 7.5%
    (4) SLUMP: 8" MAXIMUM AT POINT OF DEPOSIT IF PUMPED AFTER SITE-VERIFIED 2" TO 3" SLUMP
    (5) ADMIXTURES:
        WATER REDUCING AGENT (EUCON WR-75)
    (6) W/C RATIO: 0.45 MAXIMUM BY WEIGHT. MINIMUM 6.0 CEMENT BAGS PER CUBIC YARD.

4. A DESIGN MIX SHALL BE PROPORTIONED IN ACCORDANCE WITH SECTION 5.3 (FIELD EXPERIENCE AND/OR TRIAL MIXTURES) OF ACI-318. DESIGN MIX(S) SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW JERSEY AND SUBMITTED FOR THE ENGINEER'S REVIEW PRIOR TO PLACING ANY CONCRETE.

5. SHOP DRAWINGS SHALL BE PREPARED FOR FABRICATION, BENDING AND PLACEMENT OF CONCRETE REINFORCEMENT ACCORDING TO ACI SP-66, "ACI DETAILING MANUAL". DRAWINGS SHALL INDICATE BAR SCHEDULE, STIRRUP SPACING, DIAGRAM OF BENT BARS AND ARRANGEMENT OF REINFORCEMENT REQUIRED FOR OPENINGS THROUGH CONCRETE STRUCTURES. THE SHOP DRAWINGS FOR REINFORCEMENT SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK AND SUBMITTED FOR THE ENGINEER'S REVIEW PRIOR TO PLACEMENT OF THE REINFORCEMENT.

6. CONCRETE SHALL BE PLACED AS NEARLY AS PRACTICABLE IN ITS FINAL POSITION AND CONSOLIDATED BY RODDING, SPADING OR INTERNAL TYPE OF MECHANICAL VIBRATORS. MECHANICAL VIBRATORS SHALL NOT BE USED TO MOVE CONCRETE LATERALLY.

7. ALL INSERTS, ANCHOR BOLTS, SLEEVES ETC SHALL BE SET IN PLACE PRIOR TO PLACING CONCRETE,

8. ALL GROUT SHALL BE NON-SHRINK GROUT BY EUCLID CHEMICAL COMPANY OR APPROVED EQUAL.

9. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.

10. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185.

11. ALL REINFORCEMENT SHALL BE PROPERLY SUPPORTED ON METAL CHAIRS AND TIED AS REQUIRED TO INSURE MINIMUM CONCRETE COVER AND SPLICE LENGTHS.

12. ALL REINFORCING STEEL SHALL BE SET AND TIED IN PLACE PRIOR TO POURING OF CONCRETE, DO NOT FIELD BEND BARS PARTIALLY EMBEDDED IN CONCRETE UNLESS SPECIFICALLY INDICATED OR APPROVED BY THE ENGINEER.

13. REINFORCING STEEL, INCLUDING HOOKS AND BENDS, SHALL BE DETAILED IN ACCORDANCE WITH ACI 315. ALL REINFORCING STEEL MARKED CONTINUOUS (CONT.) ON THE PLANS AND DETAILS SHALL BE LAPPED 36 BAR DIAMETERS AT SPLICES UNLESS OTHERWISE NOTED.

14. UNLESS OTHERWISE NOTED THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT PER SECTION 7.7. OF ACI 318

15. ALL UNFORMED CONCRETE SURFACES SHALL BE CURED WITH VOLATILE ORGANIC COMPOUND (VOC) COMPLIANT CURING AND SEALING COMPOUND APPLIES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. USE SUPER DIAMOND CLEAR VOX BY EUCLID CHEMICAL COMPANY, MINIMUM 30% SOLIDS, OR APPROVED EQUAL.

16. ALL SLABS SHALL RECEIVE A TROWEL FINISH.

17. ALL EDGES OF PERMANENTLY EXPOSED CONCRETE SURFACES SHALL BE CHAMFERED ¾" UNLESS OTHERWISE NOTED.

18. CONCRETE TESTING SHALL BE MADE BY AN INDEPENDENT LABORATORY ENGAGED BY AND PAID FOR BY THE CONTRACTOR. A SET OF FOUR CYLINDERS TESTED AT 7 DAYS (2) AND 28 DAYS (2) IN ACCORDANCE WITH ASTM C39 SHALL BE DOCUMENTED FOR EACH DAYS POUR. SUBMIT RESULTS IN A REPORT FORM FOR THE OWNERS REVIEW.

DELEGATED DESIGN NOTES

1. ALL DESIGN REQUIREMENTS, LOADING, PERFORMANCE CRITERIA, SUBMISSION STANDARDS AND ANY OTHER APPLICABLE INFORMATION IS LOCATED IN THE GENERAL NOTES, DESIGN DATA, PLANS, SECTIONS, DETAILS AND SPECIFICATIONS (CONTRACT DOCUMENTS) FOR THE DELEGATED DESIGN OF THE COMPONENTS NOTED.

2. BY BIDDING ON THIS PROJECT, THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR THE DESIGN OF THE COMPONENTS DELEGATED BY THESE CONTRACT DOCUMENTS AND ACCEPTS THAT THERE IS ADEQUATE INFORMATION SHOWN ON THE CONTRACT DOCUMENTS TO PERFORM THE REQUIRED DELEGATED DESIGN.

3. A BID SUBMISSION THAT DOES NOT INCLUDE THE REQUIRED DELEGATED DESIGN WILL RESULT IN THE REJECTION OF ANY AND ALL CONSTRUCTION PHASE SUBMISSIONS, RFI'S AND SHOP DRAWINGS WHICH DO NOT CONTAIN THE REQUIRED DELEGATED DESIGN SUBMISSIONS.

4. BOTH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS MAY SHOW DETAILS FOR DELEGATED DESIGN COMPONENTS INCLUDING BUT NOT LIMITED TO MAXIMUM OR MINIMUM ASSEMBLY REQUIREMENTS (I.E. DEPTH, GAGE, THICKNESS, LENGTH, SPAN OR SPACING), OR SUGGESTED ATTACHMENT METHODS. THESE DETAILS AND INFORMATION ARE INTENDED TO BE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO BE USED FOR BID QUANTITIES. THE CONTRACTOR SHALL MAKE ALLOWANCES IN THEIR BID TO ACCOMMODATE THE COST OF THE ACTUAL ASSEMBLIES AFTER DELEGATED DESIGN IS COMPLETE.

5. THE DESIGN OF DELEGATED DESIGN COMPONENTS IS THE RESPONSIBILITY OF THE CONTRACTOR'S ENGINEER WHO MUST BE REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. ALL SUBMITTALS SHALL BEAR THIS ENGINEER'S SEAL AND SIGNATURE. THE ENGINEER MUST BE QUALIFIED TO DESIGN THE DESIGNATED ASSEMBLY AND MUST BE ABLE TO DEMONSTRATE PRIOR EXPERIENCE WITH THE DESIGN OF THE ASSEMBLY. REVIEW BY THE ENGINEER OF RECORD SHALL BE FOR GENERAL CONFORMANCE WITH THE PROJECT REQUIREMENTS AS INDICATED IN THE CONTRACT DOCUMENTS.

6. DELEGATED DESIGN SUBMITTALS MAY ALSO BE REQUIRED TO BE SUBMITTED TO THE LOCAL BUILDING OFFICIAL AS PART OF THE PERMIT APPROVAL PROCESS.

7. DELEGATED DESIGN FOR THIS PROJECT INCLUDE BUT ARE NOT LIMITED TO:
    A. STRUCTURAL STEEL CONNECTIONS
    B. COLD FORMED METAL FRAMING DESIGN AND CONNECTIONS (EXTERIOR WALLS)

    OTHER DELEGATED DESIGN SUBMITTALS MAY BE REQUIRED PER THE SPECIFICATIONS OR OTHER NOTES CONTAINED HEREIN.

GRAVITY DESIGN LOADS

REF: INTERNATIONAL BUILDING CODE 2021, NJ EDITION

	ROOF						
FINISH/ROOFING	8						
CEILING AND MECH.	5						
MATERIAL SELFWEIGHT (DECK, WOOD)	7						
TOTAL DEAD LOAD (PSF)	20						
LIVE LOAD (PSF)	20						
TOTAL LOAD (PSF)	40						

ROOF SNOW LOADS

REF: NJIBC SECTION 1608 AND ASCE 7-16 CHAPTER 7

GROUND SNOW LOAD (Pg)	25 PSF
BUILDING RISK CATEGORY	II
SNOW EXPOSURE FACTOR (Ce)	1.00
SNOW IMPORTANCE FACTOR (Is)	1.00
THERMAL FACTOR (Ct)	1.00
FLAT ROOF SNOW LOAD (Pf)	20 PSF
DRIFT AND SLIDING SNOW SURCHARGE AS APPLICABLE IN ACCORDANCE WITH ASCE 7-16	

WIND DESIGN DATA

REF: NJIBC SECTON 1609 AND ASCE 7-16

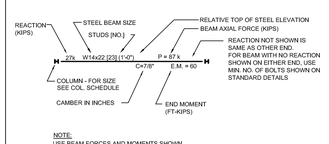
BUILDING RISK CATEGORY	II
ULTIMATE DESIGN WIND SPEED (Vult)	115 MPH
NOMINAL DESIGN WIND SPEED (Vasd)	88 MPH
WIND EXPOSURE CATEGORY	B
INTERNAL PRESSURE COEFFICIENT	+/- 0.18

SEISMIC DESIGN DATA

REF: NJIBC SECTION 1613 AND ASCE 7-16

BUILDING RISK CATEGORY	II
SEISMIC IMPORTANCE FACTOR (Ie)	1.00
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS	
S_S	0.263
S_1	0.057
SITE CLASS (ASSUMED)	D (DEFAULT)
DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS	
S_{DS}	0.278
S_{D1}	0.090
SEISMIC DESIGN CATEGORY	B
BASIC SEISMIC FORCE RESISTING SYSTEM	
ORDINARY REINFORCED MASONRY SHEAR WALLS	
SEISMIC RESPONSE COEFFICIENT (CS)	0.139
RESPONSE MODIFICATION COEFFICIENT (R)	2
ANALYSIS PROCEDURE USED	
EQUIVALENT LATERAL FORCE PROCEDURE	

FRAMING PLAN NOMENCLATURE



NOTE:
USE BEAM FORCES AND MOMENTS SHOWN FOR CONNECTION DESIGN.

ABBREVIATIONS

BOF	BOTTOM OF FOOTING	MAX.	MAXIMUM
BL	BUILDING LINE	MC	MOMENT CONNECTION
B/S	BOTH SIDES	MIN.	MINIMUM
CJ	CONTROL/CONSTRUCTION JOINT	NIC	NOT IN CONTRACT
℄	CENTER LINE	NTS	NOT TO SCALE
COL.	COLUMN	O.C./OC	ON CENTER
CANT.	CANTILEVER	PJF	PREMOLDED JOINT FILLER
COL.	COLUMN	ℙ	PLATE
CONC.	CONCRETE	REINF.	REINFORCING
CONT.	CONTINUOUS	SECT.	SECTION
EF	EACH FACE	TOC	TOP OF CONCRETE
EW	EACH WAY	TOS	TOP OF STEEL
EOD	EDGE OF DECK	TOW	TOP OF WALL
EOS	EDGE OF SLAB	T & B	TOP AND BOTTOM
EL.,ELEV.	ELEVATION	TYP.	TYPICAL
EXIST.,(E)	EXISTING	UON	UNLESS OTHERWISE NOTED
EXP. JT	EXPANSION JOINT	VERT.	VERTICAL
FTG.	FOOTING	VIF	VERIFY IN FIELD
FDN	FOUNDATION	W/	WITH
HP	HIGH POINT	WP	WORKING POINT
HORIZ.	HORIZONTAL		
KB	KNEE BRACE		
LP	LOW POINT		
LLV	LONG LEG VERTICAL		
LLH	LONG LEG HORIZONTAL		

Parette Somjen Architects

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NJ CERTIFICATE OF AUTHORIZATION NO. 24GA28112800

DAVID M. BUSH
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE40475

1 06/15/26 ADDENDUM #01

REV	DATE	REMARK

- Gregory J. Somjen A.I.A., CID

Connecticut Architect	8622
Delaware Architect	6116
Massachusetts Architect	9629
NCARB Registration	47178
New Jersey Architect	13349
New York Architect	32435
North Carolina Architect	16879

- William H. Bannister, A.I.A. LEEDap

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North Carolina Architect	15027
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South Carolina Architect	10382

- Richard J. Trautwein, A.I.A.

New Jersey Architect	12199

SIGNATURE

STRUCTURAL NOTES AND DESIGN CRITERIA

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10552 PROJECT NUMBER	SHEET NUMBER S0.01
05/29/2026 RELEASE DATE	
TFB PROJECT MANAGER	MDR DRAWN BY: / RT CHECKED BY:

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SPECIAL INSPECTION NOTES:

1. THE OWNER SHALL RETAIN A QUALIFIED INDEPENDENT TESTING AND INSPECTION AGENCY LICENSED IN THE STATE OF NEW JERSEY APPROVED BY THE ARCHITECT AND ENGINEER TO PERFORM THE FOLLOWING SERVICES.
   A. SPECIAL INSPECTIONS, VERIFICATIONS AND TESTING SHALL BE PERFORMED IN ACCORDANCE WITH NJIBC 2021 CHAPTER 17 AND THE STATEMENT OF SPECIAL INSPECTIONS CONTAINED HEREIN.
   B. CONCRETE AND REINFORCEMENT SHALL BE INSPECTED PER THE REQUIREMENTS OF TABLE 1705.3 IN NJIBC 2021
   C. MASONRY AND REINFORCEMENT SHALL BE INSPECTED PER THE LEVEL 1 REQUIREMENTS SECTION 1705.4 OF THE NJIBC 2018.

2. WRITTEN REPORTS SHALL BE SUBMITTED TO THE ARCHITECT STATING COMPLIANCE OR NONCOMPLIANCE WITH THE DESIGN DOCUMENTS. ALL REPORTS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW JERSEY. SUBMIT ALL REPORTS WITHIN ONE WEEK OF INSPECTION OR ONE WEEK OF TEST COMPLETION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR AND ARCHITECT/ENGINEER FOR CORRECTION AT THE TIME OF THE INSPECTION SO CORRECTIVE MEASURES MAY BE MADE PRIOR TO PROCEEDING OR COMPLETION OF INCORRECT WORK.

3. COORDINATE AND PROVIDE ACCESS TO THE WORK FOR REQUIRED SPECIAL INSPECTIONS AND PROVIDE NOTICE OF REQUIRED SPECIAL INSPECTIONS.

4. THE STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR CONSTRUCTION SITE SAFETY AND IS NOT REQUIRED TO INSPECT THE WORK FOR COMPLIANCE WITH THE STRUCTURAL CONSTRUCTION DOCUMENTS OR FOR COMPLIANCE WITH THE APPLICABLE BUILDING CODE OR OSHA REQUIREMENTS AFTER COMPLETION OF THE WORK.

5. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING CONSTRUCTION DOCUMENTS FOR ADDITOINAL NON-STRUCTURAL SPECIAL INSPECTIONS REQUIRED.

SPECIAL INSPECTION AND VERIFICATION OF SOILS

SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION	NJIBC 2021 REFERENCE
YES	1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	PERIODIC	TABLE 1705.6
YES	2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	PERIODIC	TABLE 1705.6
YES	3. PERFORM CLASSIFICATIONS AND TESTING OF COMPACTED FILL MATERIALS.	PERIODIC	TABLE 1705.6
YES	4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT OF COMPACTED FILL.	PERIODIC	TABLE 1705.6
YES	5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	PERIODIC	TABLE 1705.6

SPECIAL INSPECTION OF FABRICATED ITEMS

SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION	REFERENCE FOR CRITERIA	
			REF. STANDARD	NJIBC 2021 REF.
YES	WHERE FABRICATION OF STRUCTURAL, LOAD-BEARING, OR LATERAL LOAD-RESISTING MEMBERS OR ASSEMBLIES IS BEING CONDUCTED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTIONS OF THE FABRICATED ITEMS SHALL BE PERFORMED DURING FABRICATION. REFER TO NJIBC 1704.2.5.1 FOR FABRICATOR APPROVAL EXCEPTION	AS INDICATED PER TASK	—	1704.2.5 1704.2.5.1

SPECIAL INSPECTION OF CONCRETE CONSTRUCTION

SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION	REFERENCE FOR CRITERIA	
			REF. STANDARD	NJIBC 2021 REF.
YES	SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THIS SECTION AND TABLE 1705.3. REFER TO SECTION 1705.3 FOR EXCEPTIONS FROM SPECIAL INSPECTION REQUIREMENTS	—	—	1705.2
YES	1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	PERIODIC	ACI 318 CH. 20, 25.2, 25.3, 26.5.1-26.5.3	1908.4
	2. REINFORCING BAR WELDING			
NO	a. VERIFY WELDABILITY OF REINF. BARS OTHER THAN ASTM A706	PERIODIC	AWS D1.4 ACI 318 26.5.4	—
NO	b. INSPECT SINGLE-PASS FILLED WELDS, MAX. 5/16", AND	PERIODIC		
NO	c. INSPECT ALL OTHER WELDS	CONTINUOUS		
NO	3. INSPECT ANCHORS CAST IN CONCRETE	PERIODIC	ACI 318 17.8.2	—
	4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS			
NO	a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	CONTINUOUS	ACI 318 17.8.2.4	—
YES	b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a	PERIODIC	ACI 318 17.8.2	—
YES	5. VERIFY USE OF REQUIRED DESIGN MIX	PERIODIC	ACI 318 CH. 19, 26.4.3, 26.4.4	1904.1 1904.2 1908.2 1908.3
YES	6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	CONTINUOUS	ASTM C172 ASTM C31 ACI 318 26.4.5, 26.12	1908.10
YES	7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	CONTINUOUS	ACI 318 26.4.5	1908.6 1908.7 1908.8
YES	8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC	ACI 318 26.4.7, 24.4.9	1908.9
	9. INSPECT PRESTRESSED CONCRETE FOR:			
NO	a. APPLICATION OF PRESTESSED FORCES, AND	CONTINUOUS	ACI 318 26.9.2.1	—
NO	b. GROUTING OF BONDED PRESTRESSING TENDONS	CONTINUOUS	ACI 318 26.9.2.3	—
NO	10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	PERIODIC	ACI 318 26.8	—
NO	11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PERIODIC	ACI 318 26.10.2	—
YES	12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	PERIODIC	ACI 318 26.10.1(b)	—

SPECIAL INSPECTION OF MASONRY CONSTRUCTION

MINIMUM VERIFICATION REQUIREMENTS - Q/A LEVEL 2

SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION	CODE REFERENCE
			TMS 602-16 TABLE 3 (S-25)
NO	PRIOR TO CONSTRUCTION, VERIFICATION OF COMPLIANCE OF SUBMITTALS	REQUIRED	ART. 1.5
NO	PRIOR TO CONSTRUCTION, VERIFICATION OF f'm AND f'AAC, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE CODE	REQUIRED	ART. 1.4 B
NO	DURING CONSTRUCTION, VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE	REQURIED	ART. 1.5 & 1.6.3
NO	DURING CONSTRUCTION, VERIFICATION OF f'm AND f'AAC FOR EVERY 5,000 SQ. FT.	REQUIRED	ART. 1.4 B
NO	DURING CONSTRUCTION, VERIFICATION OF PROPORTIONS OF MATERIALS AS DELIVERED TO THE PROJECT SITE FOR PREMIXED OR PREBLENDED MORTAR, PRESTRESSING GROUT, AND GROUT OTHER SELF-CONSOLIDATING GROUT	REQUIRED	ART. 1.4 B

MINIMUM SPECIAL INSPECTION REQUIREMENTS- Q/A LEVEL 2

SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION	CODE REFERNECE	
			TMS 402-16	TMS 602-16 TABLE 4 (S-26)
	1. AS MASONRY CONSTRUCTION BEGINS, VERIFY TAT THE FOLLOWING ARE IN COMPLIANCE:			
NO	a. PROPORTIONS OF SITE-PREPARED MORTAR	PERIODIC	—	ART. 2.1, 2.6 A, & 2.6 C
NO	b. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES	PERIODIC	—	ART. 2.4 B & 2.4 H
NO	c. GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES	PERIODIC	—	ART. 3.4 & 3.6 A
NO	d. PRESTRESSING TECHNIQUE	PERIODIC	—	ART. 3.6 B
NO	e. PROPERTIES OF THIN-BED MORTAL FOR ACC MASONRY	CONTINUOUS/ PERIODIC	—	ART. 2.1 C.1
NO	f. SAMPLE PANEL CONSTRUCTION	PERIODIC	—	ART. 1.6 D
	2. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:			
NO	a. GROUT SPACE	PERIODIC	—	ART. 3.2 D & 3.2 F
NO	b. PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES	PERIODIC	SEC. 10.8 & 10.9	ART. 2.4 & 3.6
NO	c. PLACEMENT OF REINFORCEMENT, CONNECTORS AND ANCHOR BOLTS	PERIODIC	SEC. 6.1, 6.3.1, 6.3.6 & 6.3.7	ART. 3.2 E & 3.4
NO	d. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	PERIODIC	—	ART. 2.6 B & 2.6 C.1.b
	3. VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION:			
NO	a. MATERIALS AND PROCEDURES WITH APPROVED SUBMITTALS	PERIODIC	—	ART. 1.5
NO	b. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION.	PERIODIC	—	ART. 3.3 B
NO	c. SIZE AND LOCATION OF STRUCTURAL MEMBERS	PERIODIC	—	ART. 3.3 F
NO	d. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, AND OTHER CONSTRUCTION.	PERIODIC	SEC. 1.2.1(e), 6.2.1 & 6.3.1	—
NO	e. WELDING OF REINFORCEMENT	CONTINUOUS	SEC. 6.1.6.1.2	—
NO	f. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURES BELOW 40°F (4.4°C)) OR HOT WEATHER (TEMPERATURES ABOVE 90°F (32.2°C))	PERIODIC	—	ART. 1.8 C & 1.8 D
NO	g. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	PERIODIC	—	ART. 3.6 B
NO	h. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	PERIODIC	—	ART. 3.5 & 3.6 C
NO	i. PLACEMENT OF ACC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	CONTINUOUS/ PERIODIC	—	ART. 3.3 B.9 & 3.3 F.1.b
NO	4. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMEN AND/OR PRISMS	PERIODIC	—	ART 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3 & 1.4 B.4

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1 06/15/26 ADDENDUM #01

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  - Delaware Architect 6116
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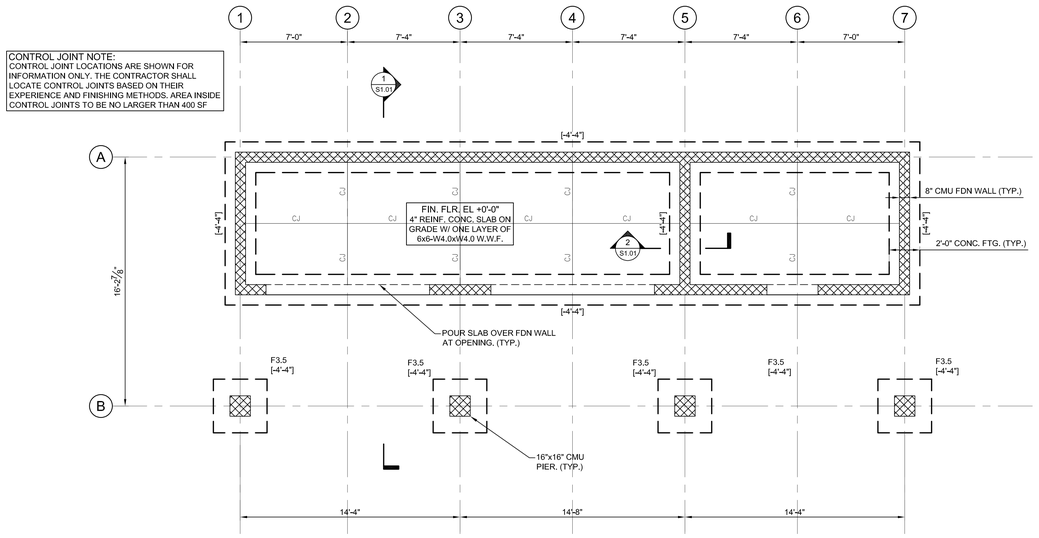
SIGNATURE

SPECIAL INSPECTION NOTES AND SCHEDULES

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10552 PROJECT NUMBER	SHEET NUMBER
05/29/2026 RELEASE DATE	S0.02
TFB PROJECT MANAGER:	MDR DRAWN BY: / RT CHECKED BY:

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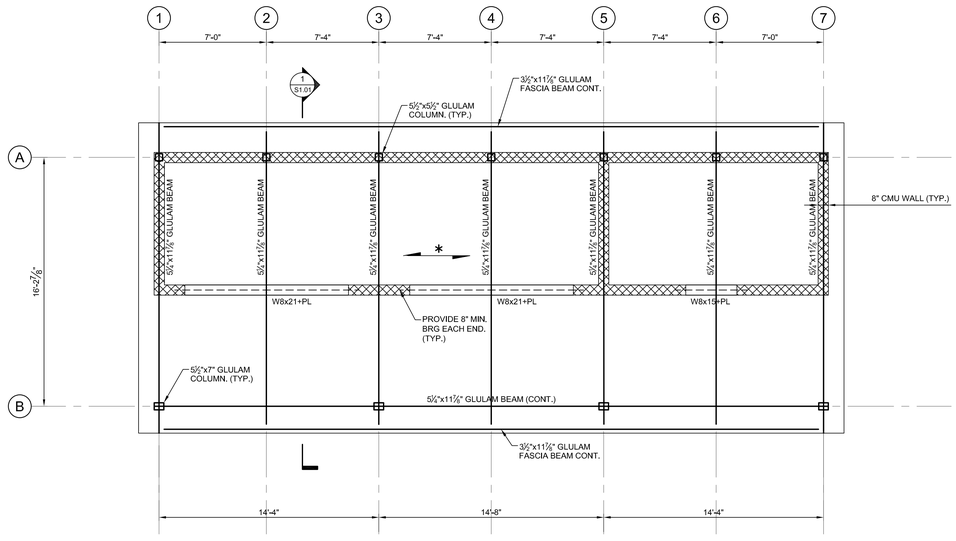


A FOUNDATION PLAN
S1.01 SCALE: 1/4" = 1'-0"

FOOTING SCHEDULE					
PRESUMED SOIL BEARING CAPACITY = 3,000 PSF					
MARK	SIZE			REINFORCING AT BOTTOM EACH WAY UON	REMARKS
	LENGTH (L)	WIDTH (W)	DEPTH (D)		
F3.5	3' - 6"	3' - 6"	1' - 0"	(4) #5	

NOTES:

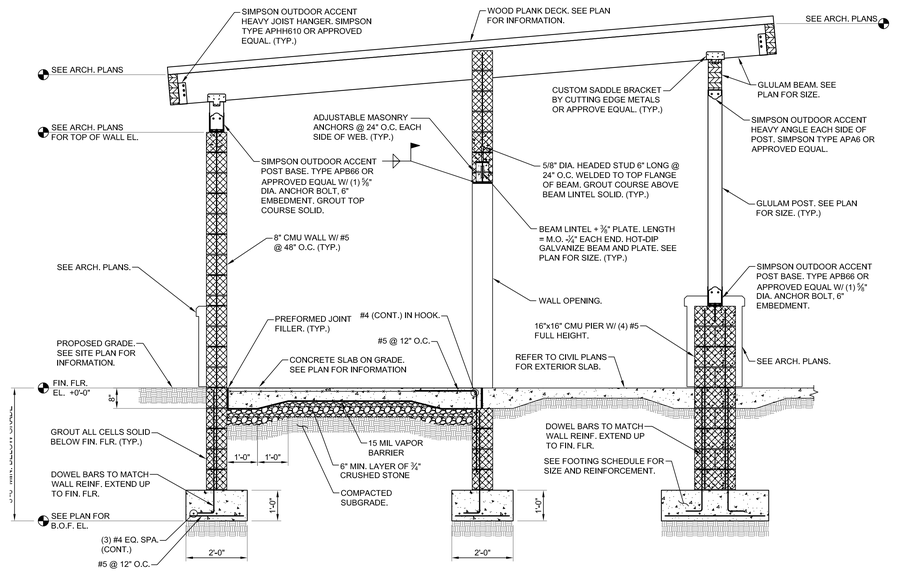
1. THE FOUNDATION DESIGN IS BASED ON A PRESUMPTIVE SOIL BEARING CAPACITY OF 3,000 PSF UON. ALL BOTTOM OF FOOTING ELEVATIONS SHALL BE VERIFIED BY A GEOTECHNICAL ENGINEER LICENSED IN THE STATE OF NEW JERSEY THAT IS RETAINED AND PAID FOR BY THE OWNER TO CONFIRM THE SUITABILITY OF THE BOTTOM OF EXCAVATION FOR THE PROPOSED FOUNDATIONS.
3. DATUM (FINISHED FLOOR) ELEV. XXX.XX = +0'-0" FOR CONSTRUCTION PURPOSES.
4. [-] INDICATES BOTTOM OF FOOTING ELEVATION.
5. BOTTOM OF EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 3'-6" BELOW FINISHED EXTERIOR GRADE.
6. ALL COLUMN FOOTINGS SHALL BE CENTERED UNDER COLUMN CENTERLINES UON.
7. ANY PIPE PENETRATIONS SHOWN ARE APPROXIMATE AND MAY NOT INCLUDE ALL REQUIRED PENETRATIONS. THE GENERAL CONTRACTOR SHALL COORDINATE THIS WORK WITH THE OTHER TRADES FOR THE FULL EXTENT OF THE REQUIRED PIPE PENETRATIONS. REFER TO THE TYPICAL DETAIL FOR PIPE PENETRATION THROUGH FOOTING.
8. ALL FOOTING STEP LOCATIONS SHOW ARE APPROXIMATE AND SHOW FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR TO LOCATE FOOTING STEPS AS REQUIRED TO MAINTAIN THE MINIMUM BOTTOM OF DEPTH BELOW GRADE INDICATED.



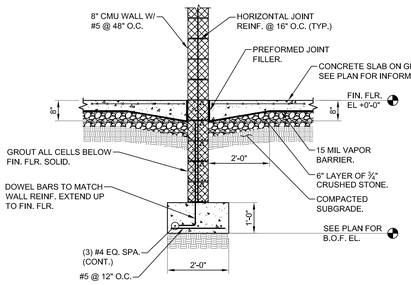
B ROOF FRAMING PLAN
S1.01 SCALE: 1/4" = 1'-0"

NOTES:

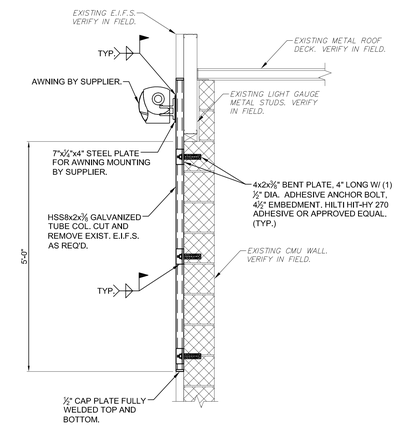
1. * INDICATES 3" TONGUE AND GROOVE WOOD PLANK DECK.
2. SEE ARCHITECTURAL PLANS FOR TOP OF STEEL AND TOP OF WALL ELEVATIONS.
3. ALL BEAMS AND COLUMNS TO BE POWER PRESERVED GLULAM BY ANTHONY FOREST PRODUCTS, LLC (Fb = 2,400psi, E = 1800ksi), OR APPROVED EQUAL.



1 SECTION
S1.01 SCALE: 1/2" = 1'-0"



2 SECTION
S1.01 SCALE: 1/2" = 1'-0"



3 AWNING MOUNTING DETAIL
S1.01 SCALE: 3/4" = 1'-0"

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FOUNDATION & ROOF FRAMING PLANS

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10552	SHEET NUMBER	
PROJECT NUMBER	S1.01	
05/29/2026		
RELEASE DATE		
TFB	MDR	RT
PROJECT MANAGER:	DRAWN BY:	CHECKED BY:

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GENERAL NOTES:

G1. DIMENSIONS ARE FROM FACE OF GYP. BOARD / FINISH CMU (TYP.) AND WALL THICKNESS IS INDICATED BY DETAILS, UNLESS NOTED OTHERWISE.

G2. WHERE REQUIRED DUE TO DEMOLITION AND / OR NEW CONSTRUCTION, CONTRACTOR SHALL SATISFACTORILY PATCH, REPAIR AND / OR REPLACE EXISTING CONSTRUCTION (TO PROVIDE "AS NEW SURFACES" TO MATCH EXISTING).

G3. ALL SURFACES TO BE PROPERLY PREPARED TO RECEIVE NEW FINISH MATERIALS. SUBCONTRACTOR IS NOT TO APPLY FINISHES UNTIL SUBSTRATE SURFACE IS SMOOTH, DRY, AND READY TO RECEIVE MATERIALS AS SPECIFIED IN MANUFACTURER'S WRITTEN INSTRUCTIONS FOR INSTALLATION OR APPLICATION.

G4. CONTRACTOR TO PROTECT, REPAIR AND CLEAN ALL "EXISTING TO REMAIN" ITEMS AS NEEDED TO PROVIDE "AS NEW" APPEARANCE.

G5. CONTRACTOR TO CHALK FLOOR WITH PARTITION LAYOUT FOR REVIEW PRIOR TO INSTALLATION. NOTIFY ARCHITECT WITH ANY DISCREPANCIES OR CONFLICTS.

G6. CONSTRUCTION SHALL BE NON COMBUSTIBLE. ANY LUMBER MUST BE FIRE RETARDANT AS PER IBC 2018 NJ EDITION SECTION 2303.2, AS PER NEW JERSEY UNIFORM CONSTRUCTION CODE N.J.A.C.5:23-9.6(G)1.

G7. PATCH, REPAIR, INFILL ALL EXISTING FIREPROOFING AS REQUIRED TO MAINTAIN FIRE RATING.

G8. ALL EXISTING AND NEW PENETRATIONS THROUGH RATED ASSEMBLIES TO BE SEALED TO MAINTAIN FIRE RATING.

G9. PROVIDE BLOCKING IN WALLS FOR SUPPORT OF ALL WALL HUNG ITEMS. REFER TO ELEVATIONS AND DETAILS FOR LOCATIONS AND MOUNTING HEIGHTS.

G10. FIRE EXTINGUISHER AND EMERGENCY DEVICE LOCATIONS SHALL BE REVIEWED BY FIRE CODE OFFICIAL. ADDITIONAL ITEMS MAY BE REQUIRED, AS REQUESTED BY LOCAL OFFICIAL.

G11. CONTRACTOR TO PROVIDE NEW ACCESSIBLE SIGNAGE AT ALL AREAS OF REFUGE AND ALL ACCESSIBLE RESTROOMS THROUGHOUT THE SPACE. ALL SIGNAGE TO COMPLY WITH ICC / ANSI A117.1/2009. COORDINATE EXACT REQUIREMENTS WITH THE OWNERS REPRESENTATIVE. REFER TO TYPICAL BARRIER FREE DETAILS ON SHEET A3.01 FOR FURTHER INFORMATION.

G12. CONTRACTOR TO PROVIDE NEW ACCESSIBLE SINAGE AT ALL INTERIOR ROOMS THROUGHOUT THE SPACE. ALL SIGNAGE TO COMPLY WITH ICC/ANSI A117.1/2009. COORDINATE EXACT REQUIREMENTS WITH THE OWNERS REPRESENTATIVE. REFER TO DETAIL 10 ON SHEET A8.02 FOR FURTHER INFORMATION.

G13. CONTRACTOR SHALL MAINTAIN AN OPERATIONAL LIFE SAFETY SYSTEM DURING ENTIRE PROJECT, INCLUDING BUT NOT LIMITED TO, EMERGENCY LIGHTS, EXIT SIGNS, SPRINKLER SYSTEMS, FIRE EXTINGUISHERS, SMOKE DETECTORS, HORNS & STROBES.

G14. EXAMINE ALL FIELD CONDITIONS FOR EXACT LOCATION OF UTILITIES, DRAINS, ETC., AND NOTIFY THE OWNER/ARCHITECT ABOUT ANY DISCREPANCIES BEFORE STARTING WORK. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY ANY PERSON, VEHICLE, EQUIPMENT, OR TOOLS RELATED TO THE EXECUTION OF THIS CONTRACT.

G15. ALL UNDERGROUND UTILITIES REPRESENTED ARE SHOWN APPROXIMATELY. IN ALL CASES THE EXACT DEPTH, SIZE, AND ALIGNMENT OF UNDERGROUND PIPES, WIRES, AND OTHER FEATURES SHALL BE CONSIDERED UNKNOWN AND MUST BE FIELD VERIFIED AT THE START OF THE PROJECT.

G16. ENGAGE THE SERVICES OF A PRIVATE UNDERGROUND UTILITY LOCATION AND MARK OUT SERVICE TO MARK THE LOCATION OF ALL UNDERGROUND UTILITIES WITHIN THE SCOPE OF THIS PROJECT. THE NJ ONE CALL SERVICE MAY NOT PERFORM A LOCATION WITH THE SCHOOL SITE, THERE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERTAKE THIS WORK. MAINTAIN THE MARK OUT THROUGHOUT THE ENTIRE PROJECT, UNTIL SUCH TIME AS SURFACES ARE INSTALLED AND NO FURTHER SUBSURFACE PENETRATIONS WILL OCCUR.

G17. THE DEMOLITION AND REMOVAL OF ALL WASTE ITEMS, INCLUDING, BUT NOT LIMITED TO: EXCESS FILL, EMBANKMENT, FENCING, CONCRETE, PAVEMENT, ETC. INCLUDES HAULING TO AND DISPOSAL OF SAME IN A LEGAL MANNER OFF-SITE.

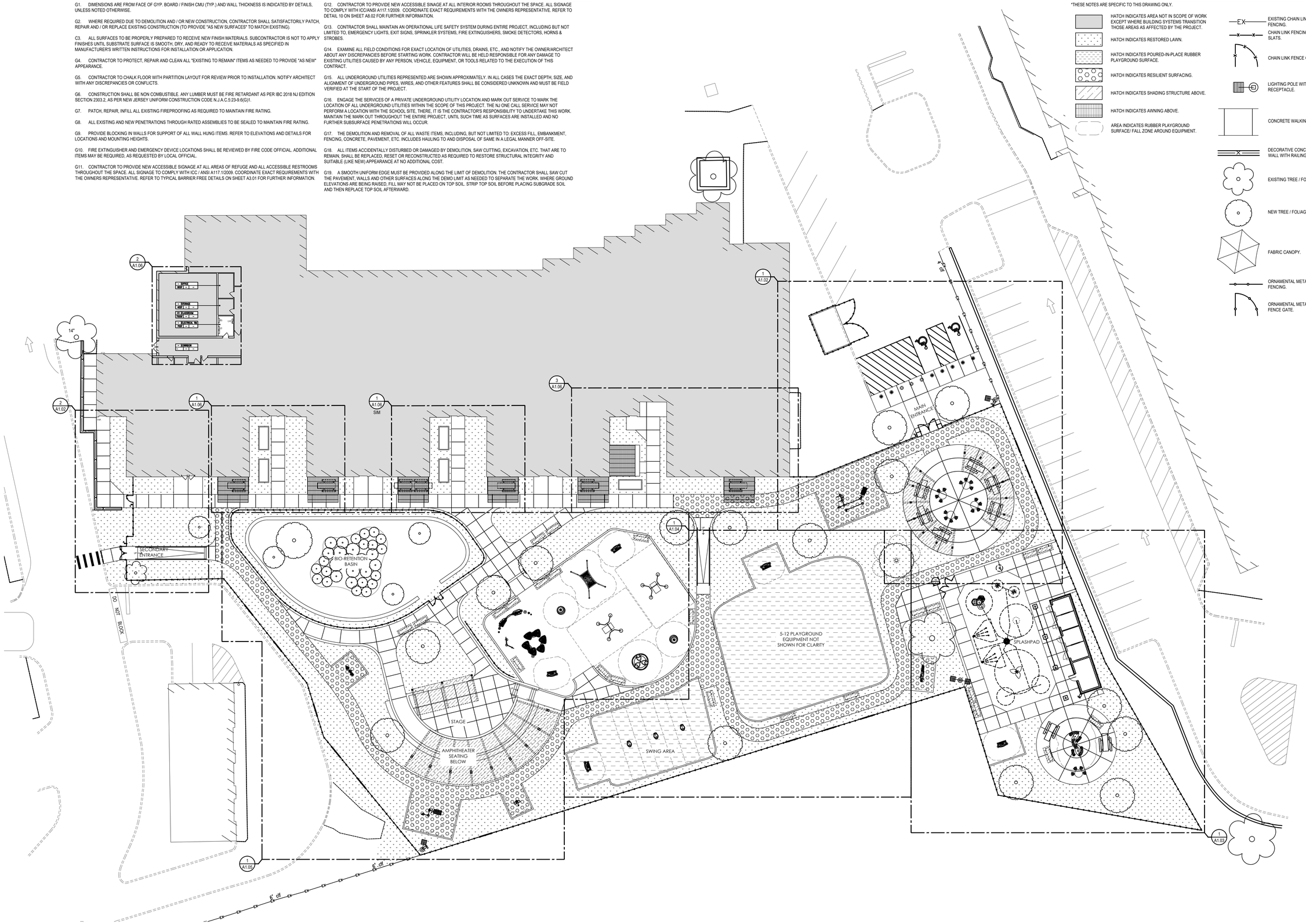
G18. ALL ITEMS ACCIDENTALLY DISTURBED OR DAMAGED BY DEMOLITION, SAW CUTTING, EXCAVATION, ETC. THAT ARE TO REMAIN, SHALL BE REPLACED, RESET OR RECONSTRUCTED AS REQUIRED TO RESTORE STRUCTURAL INTEGRITY AND SUITABLE (LIKE NEW) APPEARANCE AT NO ADDITIONAL COST.

G19. A SMOOTH UNIFORM EDGE MUST BE PROVIDED ALONG THE LIMIT OF DEMOLITION. THE CONTRACTOR SHALL SAW CUT THE PAVEMENT, WALLS AND OTHER SURFACES ALONG THE DEMO LIMIT AS NEEDED TO SEPARATE THE WORK. WHERE GROUND ELEVATIONS ARE BEING RAISED, FILL MAY NOT BE PLACED ON TOP SOIL. STRIP TOP SOIL BEFORE PLACING SUBGRADE SOIL AND THEN REPLACE TOP SOIL AFTERWARD.

SYMBOL LEGEND

*THESE NOTES ARE SPECIFIC TO THIS DRAWING ONLY.

- HATCH INDICATES AREA NOT IN SCOPE OF WORK EXCEPT WHERE BUILDING SYSTEMS TRANSITION THOSE AREAS AS AFFECTED BY THE PROJECT.
- HATCH INDICATES RESTORED LAWN.
- HATCH INDICATES POURED-IN-PLACE RUBBER PLAYGROUND SURFACE.
- HATCH INDICATES RESILIENT SURFACING.
- HATCH INDICATES SHADING STRUCTURE ABOVE.
- HATCH INDICATES AWNING ABOVE.
- AREA INDICATES RUBBER PLAYGROUND SURFACE/ FALL ZONE AROUND EQUIPMENT.
- EX — EXISTING CHAIN LINK FENCING.
- CHAIN LINK FENCING WITH SLATS.
- CHAIN LINK FENCE GATE.
- LIGHTING POLE WITH RECEPTACLE.
- CONCRETE WALKING PATH.
- DECORATIVE CONCRETE WALL WITH RAILING.
- EXISTING TREE / FOLIAGE.
- NEW TREE / FOLIAGE.
- FABRIC CANOPY.
- ORNAMENTAL METAL FENCING.
- ORNAMENTAL METAL FENCE GATE.



1 OVERALL CONSTRUCTION SITE PLAN
SCALE: 1/16" = 1'-0"

PSA Beyond Architecture

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PROPOSED IMPROVEMENTS FOR EDUCATIONAL SERVICES COMMISSION OF NEW JERSEY:

PISCATAWAY OUTDOOR PLAY AREA

1670 STELTON ROAD,
PISCATAWAY, NJ, 08854
BLOCK: 9201 LOT: 46.12

1 06/15/26 ADDENDUM #01
- 05/29/26 ISSUED FOR BIDDING

REV	DATE	REMARK

- Gregory J. Somjen A.I.A., CID
  - Connecticut Architect 8622
  - Delaware Architect 6116
  - Massachusetts Architect 9629
  - NCARB Registration 47178
  - New Jersey Architect 13349
  - New York Architect 32435
  - North Carolina Architect 16879
- William H. Bannister, A.I.A. LEEDap
  - Connecticut Architect 14499
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  - New Jersey Architect 19142
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  - North Carolina Architect 15027
  - Pennsylvania Architect RA409555
  - South Carolina Architect 10382
- Richard J. Trautwein, A.I.A.
  - New Jersey Architect 12199

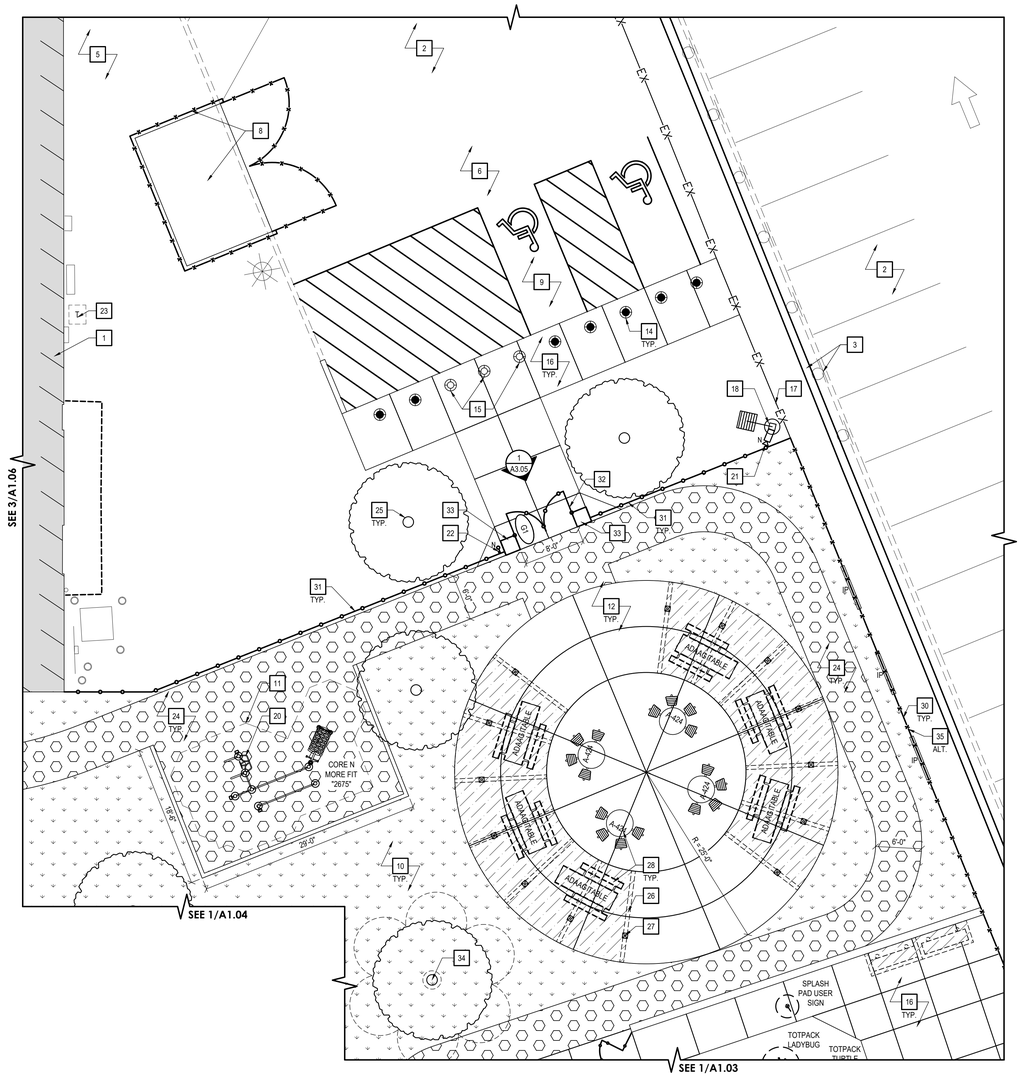
SIGNATURE

OVERALL CONSTRUCTION PLAN

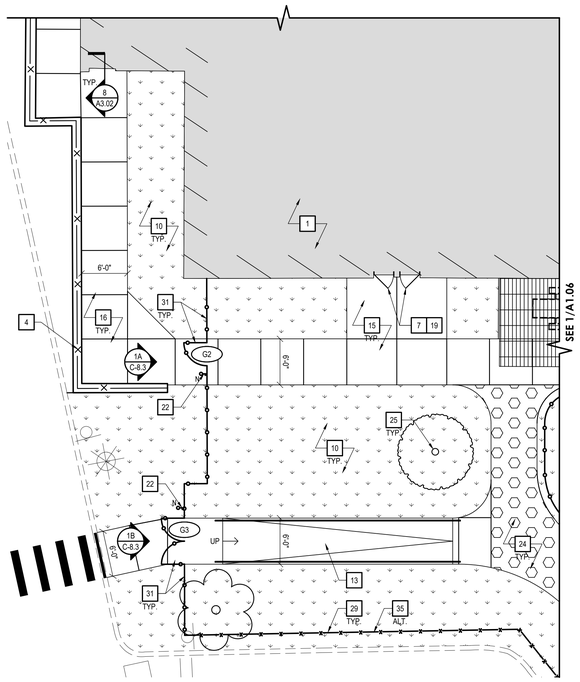
THE SCALE REPRESENTED ON THESE DRAWINGS IS ONLY VALID IF THE DRAWING IS 42" x 30". DRAWINGS WHICH ARE NOT PLOTTED AT THE SPECIFIED SHEET SIZE ARE NOT TO SCALE.

10552 PROJECT NUMBER	SHEET NUMBER 1 A1.01
05/29/2026 RELEASE DATE	
TFB PROJECT MANAGER:	AR / KG DRAWN BY: / RT CHECKED BY:

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1 CONSTRUCTION PLAN - MAIN ENTRANCE AND PARKING LOT
SCALE: 1/8" = 1'-0"



2 CONSTRUCTION PLAN - SIDE ENTRANCE
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

REFER TO SHEET A1.01 FOR GENERAL NOTES.

DRAWING KEYNOTES:

*THESE NOTES ARE SPECIFIC TO THIS DRAWING ONLY.

1. EXISTING BUILDING TO REMAIN. PROTECT (WINDOWS, DOORS, WALL-MOUNTED EQUIPMENT, ETC.) THROUGHOUT DURATION OF THE PROJECT.
2. EXISTING ASPHALT PARKING LOT TO REMAIN. PROTECT THROUGHOUT DURATION OF THE PROJECT.
3. EXISTING FENCE AND DECORATIVE BLOCK WALL TO REMAIN. PROTECT THROUGHOUT DURATION OF THE PROJECT.
4. EXISTING CONCRETE WALL AND RAILING TO REMAIN. PROTECT THROUGHOUT DURATION OF THE PROJECT.
5. EXISTING LAWN AREA TO REMAIN. PROTECT THROUGHOUT DURATION OF THE PROJECT. RESTORE ALL DISTURBED AREAS AFFECTED BY CONSTRUCTION. PROVIDE TOPSOIL, FERTILIZER AND SEEDING. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
6. EXISTING ASPHALT PARKING LOT TO BE MODIFIED AS REQUIRED TO ACCEPT NEW ASPHALT PAVEMENT EXTENSION AND STRIPING AT AREA OF WORK. PROTECT THROUGHOUT DURATION OF THE PROJECT. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
7. EXISTING DOOR SADDLE TO BE REMOVED IN ITS ENTIRETY. PROTECT EXISTING DOOR AND INTERIOR FINISHED FLOOR SURFACE THROUGHOUT DURATION OF THE PROJECT.
8. PROVIDE DUMPSTER PAD AND 8' CHAIN LINK FENCE AND SWING DOUBLE GATE. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
9. PROVIDE ASPHALT PAVEMENT AND CONCRETE CURB TO MEET EXISTING FLUSH. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
10. PROVIDE LAWN IN DISTURBED AREAS. MINIMUM RESTORATION IN GRADED AREAS AFFECTED BY CONSTRUCTION SHALL BE 5" OF TOPSOIL, FERTILIZER, AND SEEDING; UNLESS NOTED OTHERWISE. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
11. PROVIDE RUBBER SAFETY SURFACE IN SPECIFIED AREA. REFER TO DETAILS AND CIVIL DRAWINGS FOR FURTHER INFORMATION.
12. PROVIDE STANDARD DUTY CONCRETE PAVEMENT AS SHOWN. REFER TO DETAILS AND CIVIL DRAWINGS FOR FURTHER INFORMATION.
13. PROVIDE BARRIER-FREE SLOPED CONCRETE RAMP AND RAILING. REFER TO DETAILS AND CIVIL DRAWINGS FOR FURTHER INFORMATION.
14. PROVIDE 4" DIAMETER STEEL BOLLARDS FILLED WITH CONCRETE AND ENCASED WITH DECORATIVE BOLLARD COVER. COLOR TO BE YELLOW REFLECTIVE FINISH. REFER TO DETAILS AND CIVIL DRAWINGS FOR FURTHER INFORMATION.
15. PROVIDE 4" DIAMETER REMOVABLE BOLLARDS ENCASED WITH DECORATIVE BOLLARD COVER. COLOR TO BE YELLOW REFLECTIVE FINISH. REFER TO DETAILS AND CIVIL DRAWINGS FOR FURTHER INFORMATION.
16. PROVIDE CONCRETE SIDEWALK. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
17. EXISTING CHAIN LINK FENCE TO BE MODIFIED TO ACCOMMODATE INSTALLATION OF NEW ADJACENT ORNAMENTAL METAL FENCE AND CHAIN LINK FENCE. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
18. PROVIDE LIGHT POLE WITH RECEPTACLE. REFER TO ELECTRICAL DRAWINGS, DETAILS AND SPECIFICATIONS FOR FURTHER INFORMATION.
19. PROVIDE BARRIER-FREE DOOR THRESHOLD AND SWEEP. PROVIDE SHIMMING AS REQUIRED. REFER TO DETAILS FOR FURTHER INFORMATION.
20. INSTALL PLAYGROUND EQUIPMENT, FOOTINGS, AND ASSOCIATED COMPONENTS. REFER TO CIVIL DRAWINGS, DETAILS AND SPECIFICATIONS FOR FURTHER INFORMATION.
21. PROVIDE POLE-MOUNTED SECURITY CAMERA, CABLE AND CONDUIT. REFER TO ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
22. PROVIDE KEYCARD ACCESS SYSTEM. REFER TO ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
23. EXISTING TRANSFORMER AND CONCRETE PAD TO BE RELOCATED TO FIELD HOUSE STORAGE ROOM. REFER TO ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
24. PROVIDE PAVEMENT WITH ALL-WEATHER RESILIENT SURFACE. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
25. PROVIDE NEW TREE / FOLIAGE. LOCATION SHOWN IS APPROXIMATE. REFER TO CIVIL DRAWINGS FOR LOCATION, QUANTITY, TYPE, AND PLANTING INSTRUCTIONS.
26. PROVIDE CANTILEVERED SHADING STRUCTURE OVER SEATING. CANOPY TO BE 10 GAUGE ALUMINUM PANELS WITH LASER CUT DESIGN. BASIS OF DESIGN: PANEL DESIGN 9 BY ICON SHELTER SYSTEMS INC., OR APPROVED EQUAL. REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR FURTHER INFORMATION.
27. PROVIDE CONCRETE FOOTINGS FOR CANTILEVERED SHADING STRUCTURE PER MANUFACTURER RECOMMENDATIONS. REFER TO DETAILS, CIVIL DRAWINGS AND SPECIFICATIONS FOR FURTHER INFORMATION.
28. PROVIDE BARRIER FREE SEATING. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
29. PROVIDE 8' CHAIN LINK FENCE. MODIFY AS NEEDED TO ACCOMMODATE NEW INTERACTIVE PANELS. FINAL LOCATION AND HEIGHT TO BE COORDINATED AND APPROVED BY OWNER / ARCHITECT DURING SUBMITTAL PERIOD. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
30. PROVIDE 6' CHAIN LINK FENCE. MODIFY AS NEEDED TO ACCOMMODATE NEW INTERACTIVE PANELS. FINAL LOCATION AND HEIGHT TO BE COORDINATED AND APPROVED BY OWNER / ARCHITECT DURING SUBMITTAL PERIOD. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
31. PROVIDE 6' ORNAMENTAL METAL FENCE AND GATE. REFER TO DETAILS AND CIVIL DRAWINGS FOR FURTHER INFORMATION.
32. PROVIDE 8' ORNAMENTAL METAL GATE. REFER TO DETAILS AND CIVIL DRAWINGS FOR FURTHER INFORMATION.
33. PROVIDE MAIN ENTRANCE PILLAR. REFER TO DETAILS AND CIVIL DRAWINGS FOR FURTHER INFORMATION.
34. EXISTING TREE TO BE REMOVED IN ITS ENTIRETY. PROVIDE NEW TREE. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
35. ALT #01 - PROVIDE FENCE SLATS AT CHAIN LINK FENCE. (BASIS OF DESIGN: CUSTOM FENCE SLATS BY SIGNS FOR SUCCESS OR APPROVED EQUAL).

SYMBOL LEGEND

*THESE NOTES ARE SPECIFIC TO THIS DRAWING ONLY.

- HATCH INDICATES AREA NOT IN SCOPE OF WORK EXCEPT WHERE BUILDING SYSTEMS TRANSITION THOSE AREAS AS AFFECTED BY THE PROJECT.
- HATCH INDICATES RESTORED LAWN.
- HATCH INDICATES RESILIENT SURFACING.
- AREA INDICATES RUBBER PLAYGROUND SURFACE/ FALL ZONE AROUND EQUIPMENT.
- EX — EXISTING CHAIN LINK FENCING.
- CHAIN LINK FENCING WITH SLATS.
- CHAIN LINK FENCE GATE AND TAG.
- LIGHTING POLE WITH RECEPTACLE.
- PLAYGROUND EQUIPMENT.
- OUTDOOR SEATING BENCHES.
- ORNAMENTAL METAL FENCING.
- ORNAMENTAL METAL FENCE GATE AND TAG.
- CONCRETE WALKING PATH.
- DECORATIVE CONCRETE WALL WITH RAILING.
- EXISTING TREE/FOLIAGE.
- NEW TREE/FOLIAGE.
- POLE/WALL - MOUNTED SECURITY CAMERA.
- REMOVABLE BOLLARD.
- BOLLARD.
- KEYCARD ACCESS SYSTEM.
- TRANSFORMER.
- HATCH INDICATES AWNING ABOVE.
- SHADED OUTDOOR BENCH.
- IP — INTERACTIVE FENCE PANEL.

Parette Somjen Architects

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PISCATAWAY, NJ, 08854
BLOCK: 9201 LOT: 46.12

1 06/15/26 ADDENDUM #01
- 05/29/26 ISSUED FOR BIDDING

REV	DATE	REMARK

- Gregory J. Somjen A.I.A., CID
  - Connecticut Architect 8622
  - Delaware Architect 6116
  - Massachusetts Architect 9629
  - NCARB Registration 47178
  - New Jersey Architect 13349
  - New York Architect 32435
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- William H. Bannister, A.I.A. LEEDap
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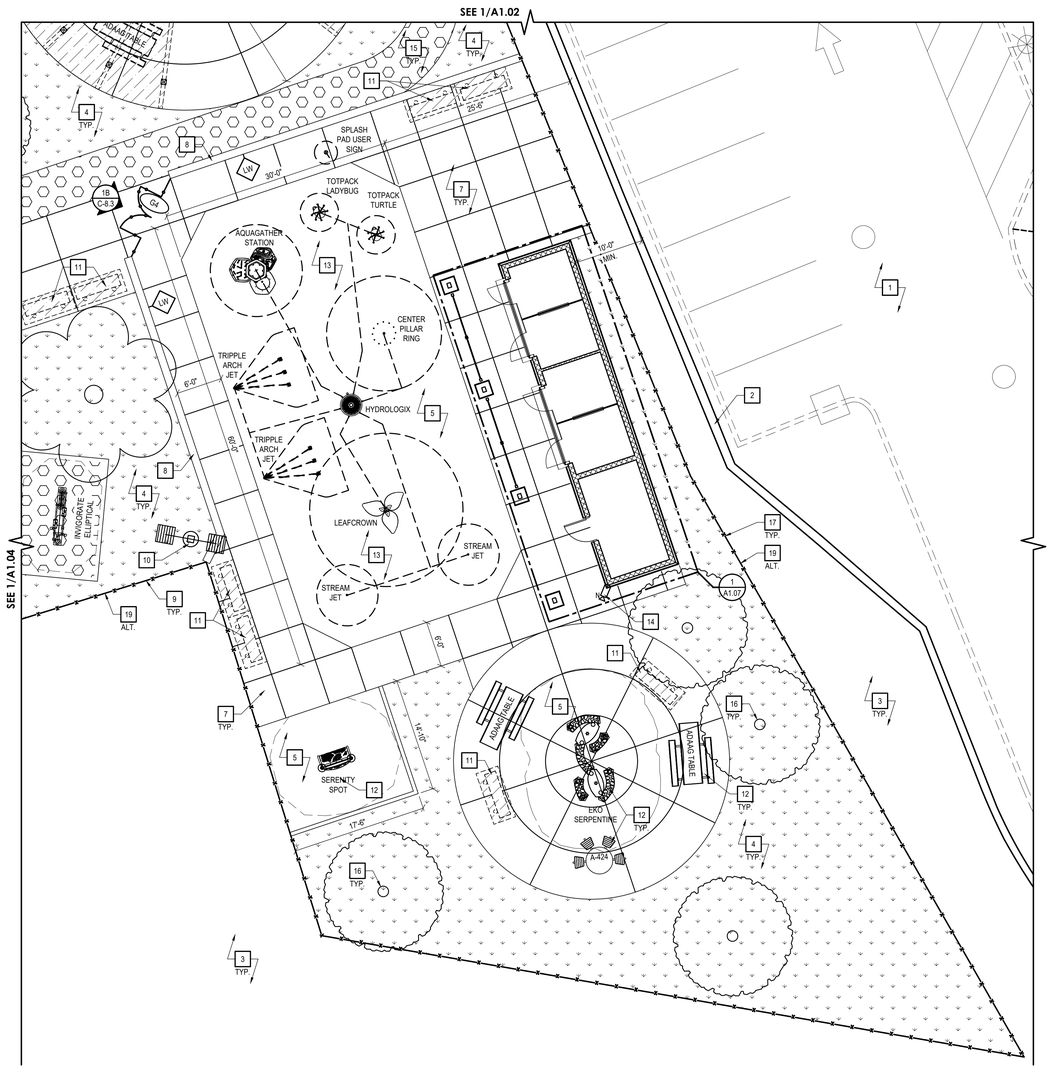
SIGNATURE

PARTIAL CONSTRUCTION PLAN I

THE SCALE REPRESENTED ON THESE DRAWINGS IS ONLY VALID IF THE DRAWING IS 42" x 30". DRAWINGS WHICH ARE NOT PLOTTED AT THE SPECIFIED SHEET SIZE ARE NOT TO SCALE.

10552 PROJECT NUMBER	SHEET NUMBER 1 A1.02
05/29/2026 RELEASE DATE	
TFB PROJECT MANAGER:	AR / KG DRAWN BY: / RT CHECKED BY:

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1 CONSTRUCTION PLAN - SPLASH PAD & FIELD HOUSE, SHADED SEATING
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

REFER TO SHEET A1.01 FOR GENERAL NOTES.

DRAWING KEYNOTES:

*THESE NOTES ARE SPECIFIC TO THIS DRAWING ONLY.

1. EXISTING ASPHALT PARKING LOT TO REMAIN. PROTECT THROUGHOUT DURATION OF THE PROJECT.
2. EXISTING FENCE AND DECORATIVE BLOCK WALL TO REMAIN. PROTECT THROUGHOUT DURATION OF THE PROJECT.
3. EXISTING LAWN AREA TO REMAIN. PROTECT THROUGHOUT DURATION OF THE PROJECT. RESTORE ALL DISTURBED AREAS AFFECTED BY CONSTRUCTION. PROVIDE TOPSOIL, FERTILIZER AND SEEDING. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
4. PROVIDE LAWN IN DISTURBED AREAS. MINIMUM RESTORATION IN GRADED AREAS AFFECTED BY CONSTRUCTION SHALL BE 5" OF TOPSOIL, FERTILIZER, AND SEEDING; UNLESS NOTED OTHERWISE. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
5. PROVIDE RUBBER SAFETY SURFACE IN SPECIFIED AREA. REFER TO DETAILS AND CIVIL DRAWINGS FOR FURTHER INFORMATION.
6. PROVIDE STANDARD DUTY CONCRETE PAVEMENT AS SHOWN. REFER TO DETAILS AND CIVIL DRAWINGS FOR FURTHER INFORMATION.
7. PROVIDE CONCRETE SIDEWALK. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
8. PROVIDE CMU MASONRY WALL WITH CULTURED STONE COVERING AND STONE CAP. REFER TO DETAILS AND CIVIL DRAWINGS FOR FURTHER INFORMATION.
9. PROVIDE 8' CHAIN LINK FENCE. MODIFY AS NEEDED TO ACCOMMODATE NEW INTERACTIVE PANELS. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
10. PROVIDE LIGHT POLE WITH RECEPTACLE. REFER TO ELECTRICAL DRAWINGS, DETAILS AND SPECIFICATIONS FOR FURTHER INFORMATION.
11. PROVIDE BENCH WITH SHADING. (BASIS OF DESIGN: SHADEPLAY MAX COMFORT BENCH BY BCI BURKE OR APPROVED EQUAL). REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR FURTHER INFORMATION.
12. INSTALL PLAYGROUND EQUIPMENT, FOOTINGS, AND ASSOCIATED COMPONENTS. REFER TO CIVIL DRAWINGS, DETAILS AND SPECIFICATIONS FOR FURTHER INFORMATION.
13. INSTALL SPLASH PAD EQUIPMENT, FOOTINGS, AND ASSOCIATED COMPONENTS. REFER TO CIVIL AND PLUMBING DRAWINGS, DETAILS AND SPECIFICATIONS FOR FURTHER INFORMATION.
14. PROVIDE POLE / WALL-MOUNTED SECURITY CAMERA, CABLE AND CONDUIT. REFER TO ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
15. PROVIDE PAVEMENT WITH ALL-WEATHER RESILIENT SURFACE. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
16. PROVIDE NEW TREE / FOLIAGE. LOCATION SHOWN IS APPROXIMATE. REFER TO CIVIL DRAWINGS FOR LOCATION, QUANTITY, TYPE, AND PLANTING INSTRUCTIONS.
17. PROVIDE 6' CHAIN LINK FENCE. FINAL LOCATION AND HEIGHT TO BE COORDINATED AND APPROVED BY OWNER / ARCHITECT DURING SUBMITTAL PERIOD. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
18. PROVIDE 6' ORNAMENTAL METAL FENCE AND GATE. REFER TO DETAILS AND CIVIL DRAWINGS FOR FURTHER INFORMATION.
19. ALT #01 - PROVIDE FENCE SLATS AT CHAIN LINK FENCE. (BASIS OF DESIGN: CUSTOM FENCE SLATS BY SIGNS FOR SUCCESS OR APPROVED EQUAL).

SYMBOL LEGEND

*THESE NOTES ARE SPECIFIC TO THIS DRAWING ONLY.

- HATCH INDICATES AREA NOT IN SCOPE OF WORK EXCEPT WHERE BUILDING SYSTEMS TRANSITION THOSE AREAS AS AFFECTED BY THE PROJECT.
- HATCH INDICATES RESTORED LAWN.
- HATCH INDICATES RESILIENT SURFACING.
- AREA INDICATES RUBBER PLAYGROUND SURFACE/ FALL ZONE AROUND EQUIPMENT.
- LOW LANDSCAPE WALL.
- CMU MASONRY WALL.
- EX — EXISTING CHAIN LINK FENCING.
- CHAIN LINK FENCING WITH SLATS.
- XXX — NEW DOOR AND TAG.
- PLAYGROUND EQUIPMENT.
- OUTDOOR SEATING BENCHES.
- ORNAMENTAL METAL FENCING.
- GX — ORNAMENTAL METAL FENCE GATE AND TAG.
- CONCRETE WALKING PATH.
- EXISTING TREE/FOLIAGE.
- NEW TREE/FOLIAGE.
- N — POLE/WALL - MOUNTED SECURITY CAMERA.
- LIGHTING POLE WITH RECEPTACLE.
- SHADED OUTDOOR BENCH.
- SPLASH PAD EQUIPMENT.

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BLOCK: 9201 LOT: 46.12

REV	DATE	REMARK
1	06/15/26	ADDENDUM #01
0	05/29/26	ISSUED FOR BIDDING

- Gregory J. Somjen A.I.A., CID
  - Connecticut Architect 8622
  - Delaware Architect 6116
  - Massachusetts Architect 9629
  - NCARB Registration 47178
  - New Jersey Architect 13349
  - New York Architect 32435
  - North Carolina Architect 16879
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  - New Jersey Architect 19142
  - New York Architect 47812
  - North Carolina Architect 15027
  - Pennsylvania Architect RA409555
  - South Carolina Architect 10382
- Richard J. Trautwein, A.I.A.
  - New Jersey Architect 12199

SIGNATURE

PARTIAL CONSTRUCTION PLAN II

THE SCALE REPRESENTED ON THESE DRAWINGS IS ONLY VALID IF THE DRAWING IS 42" x 30". DRAWINGS WHICH ARE NOT PLOTTED AT THE SPECIFIED SHEET SIZE ARE NOT TO SCALE.

10552 PROJECT NUMBER	SHEET NUMBER 1 A1.03
05/29/2026 RELEASE DATE	
TFB PROJECT MANAGER:	AR / KG DRAWN BY: / RT CHECKED BY:

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1 **CONSTRUCTION PLAN - 5-12 PLAYGROUND AND SWING AREA**
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

REFER TO SHEET A1.01 FOR GENERAL NOTES.

DRAWING KEYNOTES:

*THESE NOTES ARE SPECIFIC TO THIS DRAWING ONLY.

1. EXISTING LAWN AREA TO REMAIN. PROTECT THROUGHOUT DURATION OF THE PROJECT. RESTORE ALL DISTURBED AREAS AFFECTED BY CONSTRUCTION. PROVIDE TOPSOIL, FERTILIZER AND SEEDING. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
2. EXISTING PLAYGROUND EQUIPMENT AND OUTDOOR BENCHES TO REMAIN. PROTECT THROUGHOUT DURATION OF THE PROJECT. PROVIDE POURED-IN-PLACE RUBBERIZED SURFACE. REFER TO CIVIL DRAWINGS AND DETAILS FOR FURTHER INFORMATION.
3. EXISTING PLAYGROUND SWING EQUIPMENT TO BE REMOVED DOWN TO FOUNDATION. EXISTING SWING FRAME FOUNDATION TO REMAIN. PROTECT THROUGHOUT DURATION OF THE PROJECT. PROVIDE POURED-IN-PLACE RUBBERIZED SURFACE. INSTALL NEW PLAYGROUND SWINGS AND ASSOCIATED COMPONENTS ONTO EXISTING FOUNDATION. REFER TO DETAILS AND CIVIL DRAWINGS FOR FURTHER INFORMATION.
4. PROVIDE LAWN IN DISTURBED AREAS. MINIMUM RESTORATION IN GRADED AREAS AFFECTED BY CONSTRUCTION SHALL BE 5" OF TOPSOIL, FERTILIZER, AND SEEDING; UNLESS NOTED OTHERWISE. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
5. PROVIDE RUBBER SAFETY SURFACE AND SURROUNDING CONCRETE CURB IN SPECIFIED AREA. REFER TO CIVIL DRAWINGS AND DETAILS FOR FURTHER INFORMATION.
6. PROVIDE BARRIER-FREE SLOPED CONCRETE RAMP AND RAILING. REFER TO DETAILS AND CIVIL DRAWINGS FOR FURTHER INFORMATION.
7. PROVIDE CONCRETE SIDEWALK. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
8. PROVIDE 8' CHAIN LINK FENCE. MODIFY AS NEEDED TO ACCOMMODATE NEW INTERACTIVE PANELS. FINAL LOCATION AND HEIGHT TO BE COORDINATED AND APPROVED BY OWNER / ARCHITECT DURING SUBMITTAL PERIOD. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
9. PROVIDE BENCH WITH SHADING. (BASIS OF DESIGN: SHADEPLAY MAX COMFORT BENCH BY BCI BURKE OR APPROVED EQUAL). REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR FURTHER INFORMATION.
10. INSTALL PLAYGROUND EQUIPMENT, FOOTINGS, AND ASSOCIATED COMPONENTS. REFER TO CIVIL DRAWINGS, DETAILS AND SPECIFICATIONS FOR FURTHER INFORMATION.
11. PROVIDE PAVEMENT WITH ALL-WEATHER RESILIENT SURFACE. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
12. PROVIDE NEW TREE / FOLIAGE. LOCATION SHOWN IS APPROXIMATE. REFER TO CIVIL DRAWINGS FOR LOCATION, QUANTITY, TYPE, AND PLANTING INSTRUCTIONS.
13. EXISTING CONCRETE CURB TO BE MODIFIED TO ACCOMMODATE RUBBER SAFETY SURFACE AND SURROUNDING CONCRETE CURB. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
14. EXISTING BENCH TO BE REMOVED IN ITS ENTIRETY.
15. ALT #01 - PROVIDE FENCE SLATS AT CHAIN LINK FENCE. (BASIS OF DESIGN: CUSTOM FENCE SLATS BY SIGNS FOR SUCCESS OR APPROVED EQUAL).

SYMBOL LEGEND

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- HATCH INDICATES AREA NOT IN SCOPE OF WORK EXCEPT WHERE BUILDING SYSTEMS TRANSITION THOSE AREAS AS AFFECTED BY THE PROJECT.
- HATCH INDICATES RESTORED LAWN.
- HATCH INDICATES POURED-IN-PLACE RUBBER PLAYGROUND SURFACE.
- HATCH INDICATES RESILIENT SURFACING.
- AREA INDICATES RUBBER PLAYGROUND SURFACE/ FALL ZONE AROUND EQUIPMENT.
- OUTDOOR BENCH.
- PLAYGROUND EQUIPMENT.
- SHADED OUTDOOR BENCH.
- IP — INTERACTIVE FENCE PANEL.
- CONCRETE WALKING PATH.
- EXISTING TREE/FOLIAGE.
- NEW TREE/FOLIAGE.

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BLOCK: 9201 LOT: 46.12

1	06/15/26	ADDENDUM #01
0	05/29/26	ISSUED FOR BIDDING

REV	DATE	REMARK

- Gregory J. Somjen A.I.A., CID
  - Connecticut Architect 8622
  - Delaware Architect 6116
  - Massachusetts Architect 9629
  - NCARB Registration 47178
  - New Jersey Architect 13349
  - New York Architect 32435
  - North Carolina Architect 16879
- William H. Bannister, A.I.A. LEEDap
  - Connecticut Architect 14499
  - NCARB Registration 96145
  - New Jersey Architect 19142
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  - North Carolina Architect 15027
  - Pennsylvania Architect RA409555
  - South Carolina Architect 10382
- Richard J. Trautwein, A.I.A.
  - New Jersey Architect 12199

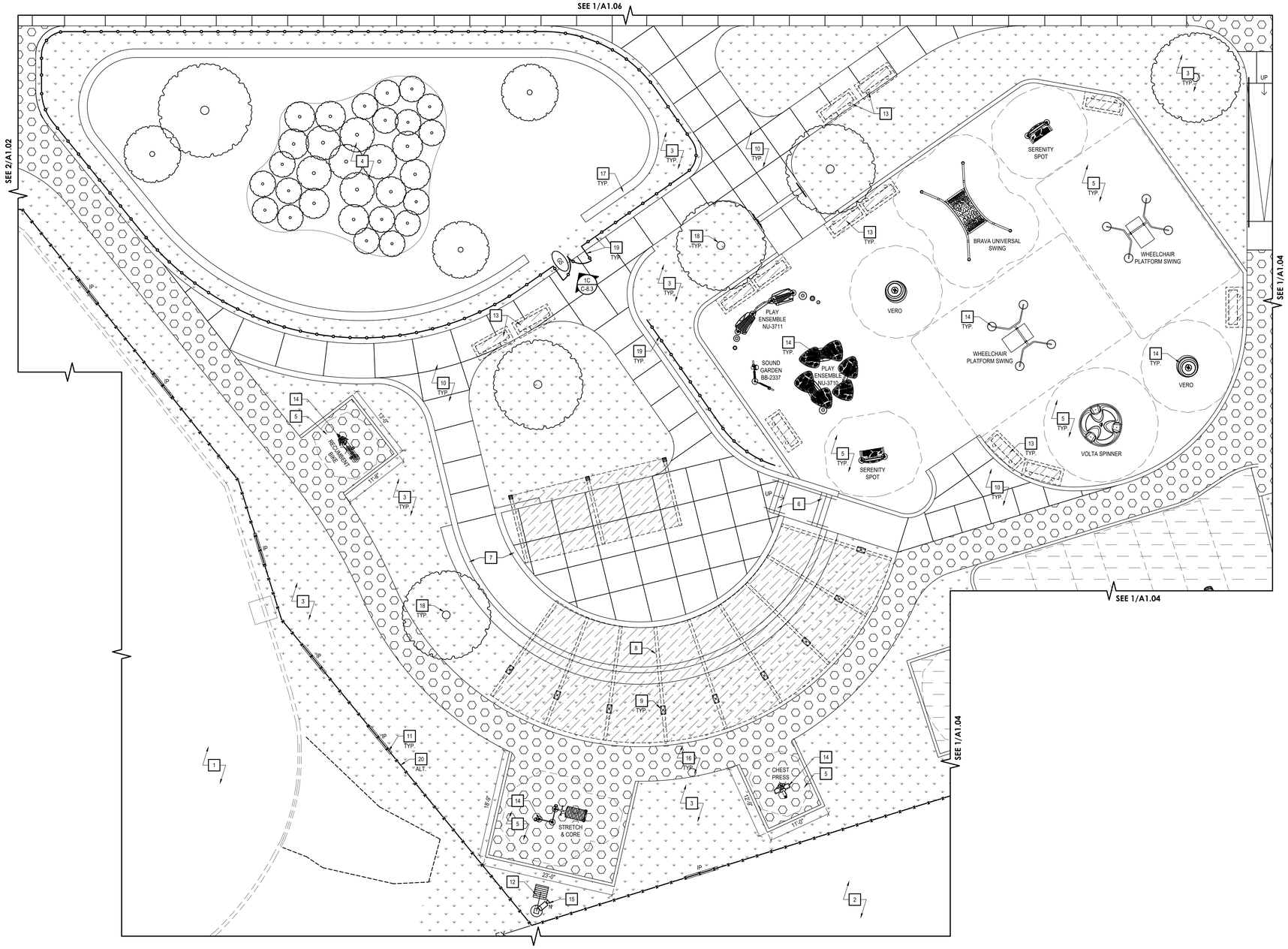
SIGNATURE

PARTIAL CONSTRUCTION PLAN III

THE SCALE REPRESENTED ON THESE DRAWINGS IS ONLY VALID IF THE DRAWING IS 42" x 30". DRAWINGS WHICH ARE NOT PLOTTED AT THE SPECIFIED SHEET SIZE ARE NOT TO SCALE.

10552 PROJECT NUMBER	SHEET NUMBER 1 A1.04
05/29/2026 RELEASE DATE	
TFB PROJECT MANAGER:	AR / KG DRAWN BY: / RT CHECKED BY:

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1 **CONSTRUCTION PLAN - BIO-RETENTION BASIN, AMPHITHEATER, 12+ PLAY AREA & SOUND GARDEN**
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

REFER TO SHEET A1.01 FOR GENERAL NOTES.

DRAWING KEYNOTES:

*THESE NOTES ARE SPECIFIC TO THIS DRAWING ONLY.

1. EXISTING ASPHALT PARKING LOT TO REMAIN. PROTECT THROUGHOUT DURATION OF THE PROJECT.
2. EXISTING LAWN AREA TO REMAIN. PROTECT THROUGHOUT DURATION OF THE PROJECT. RESTORE ALL DISTURBED AREAS AFFECTED BY CONSTRUCTION. PROVIDE TOPSOIL, FERTILIZER AND SEEDING. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
3. PROVIDE LAWN IN DISTURBED AREAS. MINIMUM RESTORATION IN GRADED AREAS AFFECTED BY CONSTRUCTION SHALL BE 5" OF TOPSOIL, FERTILIZER, AND SEEDING; UNLESS NOTED OTHERWISE. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
4. PROVIDE BIO-RETENTION BASIN WITH DECORATIVE PERIMETER FENCING. REFER TO CIVIL DRAWINGS AND DETAILS FOR FURTHER INFORMATION.
5. PROVIDE RUBBER SAFETY SURFACE AND SURROUNDING CONCRETE CURB IN SPECIFIED AREA. REFER TO CIVIL DRAWINGS AND DETAILS FOR FURTHER INFORMATION.
6. PROVIDE CONCRETE STEPS WITH CHEEK WALLS. REFER TO CIVIL DRAWINGS AND DETAILS FOR FURTHER INFORMATION.
7. PROVIDE CONCRETE RETAINING WALL WITH INTEGRATED CONTINUOUS SEATING. REFER TO CIVIL DRAWINGS AND DETAILS FOR FURTHER INFORMATION.
8. PROVIDE CANTILEVERED SHADING STRUCTURE OVER SEATING. CANOPY TO BE 10 GAUGE ALUMINUM PANELS WITH LASER CUT DESIGN. BASIS OF DESIGN: PANEL DESIGN 9 BY ICON SHELTER SYSTEMS INC., OR APPROVED EQUAL. REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR FURTHER INFORMATION.
9. PROVIDE CONCRETE FOOTINGS FOR CANTILEVERED SHADING STRUCTURE PER MANUFACTURER RECOMMENDATIONS. REFER TO DETAILS, CIVIL DRAWINGS AND SPECIFICATIONS FOR FURTHER INFORMATION.
10. PROVIDE CONCRETE SIDEWALK. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
11. PROVIDE 8' CHAIN LINK FENCE. MODIFY AS NEEDED TO ACCOMMODATE NEW INTERACTIVE PANELS. FINAL LOCATION AND HEIGHT TO BE COORDINATED AND APPROVED BY OWNER / ARCHITECT DURING SUBMITTAL PERIOD. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
12. PROVIDE LIGHT POLE WITH RECEPTACLE. REFER TO MEP DRAWINGS, DETAILS AND SPECIFICATIONS FOR FURTHER INFORMATION.
13. PROVIDE BENCH WITH SHADING. (BASIS OF DESIGN: SHADEPLAY MAX COMFORT BENCH BY BCI BURKE OR APPROVED EQUAL). REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR FURTHER INFORMATION.
14. INSTALL PLAYGROUND EQUIPMENT, FOOTINGS, AND ASSOCIATED COMPONENTS. (BASIS OF DESIGN: PRODUCTS NAMED BY BCI BURKE OR APPROVED EQUAL). REFER TO CIVIL DRAWINGS, DETAILS AND SPECIFICATIONS FOR FURTHER INFORMATION.
15. PROVIDE POLE-MOUNTED SECURITY CAMERA, CABLE AND CONDUIT. REFER TO ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
16. PROVIDE PAVEMENT WITH ALL-WEATHER RESILIENT SURFACE. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
17. PROVIDE CONCRETE RETAINING WALL. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
18. PROVIDE NEW TREE / FOLIAGE. LOCATION SHOWN IS APPROXIMATE. REFER TO CIVIL DRAWINGS FOR LOCATION, QUANTITY, TYPE, AND PLANTING INSTRUCTIONS.
19. PROVIDE 4' ORNAMENTAL METAL FENCE AND GATE. REFER TO DETAILS AND CIVIL DRAWINGS FOR FURTHER INFORMATION.
20. ALT #01 - PROVIDE FENCE SLATS AT CHAIN LINK FENCE. (BASIS OF DESIGN: CUSTOM FENCE SLATS BY SIGNS FOR SUCCESS OR APPROVED EQUAL).

SYMBOL LEGEND

*THESE NOTES ARE SPECIFIC TO THIS DRAWING ONLY.

- HATCH INDICATES AREA NOT IN SCOPE OF WORK EXCEPT WHERE BUILDING SYSTEMS TRANSITION THOSE AREAS AS AFFECTED BY THE PROJECT.
- HATCH INDICATES RESTORED LAWN.
- HATCH INDICATES AMPHITHEATER CANOPY.
- HATCH INDICATES RESILIENT SURFACING.
- AREA INDICATES RUBBER PLAYGROUND SURFACE/ FALL ZONE AROUND EQUIPMENT.
- CHAIN LINK FENCING WITH SLATS.
- SHADED OUTDOOR BENCH.
- CONCRETE WALKING PATH.
- NEW TREE/FOLIAGE.
- POLE/WALL - MOUNTED SECURITY CAMERA.
- LIGHTING POLE WITH RECEPTACLE.
- INTERACTIVE FENCE PANEL.
- PLAYGROUND EQUIPMENT.
- ORNAMENTAL METAL FENCING.
- ORNAMENTAL METAL FENCE GATE AND TAG.

PSA Beyond Architecture

Parette Somjen Architects

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PROPOSED IMPROVEMENTS FOR EDUCATIONAL SERVICES COMMISSION OF NEW JERSEY:

PISCATAWAY OUTDOOR PLAY AREA

1670 STELTON ROAD,
PISCATAWAY, NJ, 08854
BLOCK: 9201 LOT: 46.12

REV	DATE	REMARK
1	06/15/26	ADDENDUM #01
-	05/29/26	ISSUED FOR BIDDING

- Gregory J. Somjen A.I.A., CID
  - Connecticut Architect 8622
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  - South Carolina Architect 10382
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  - New Jersey Architect 12199

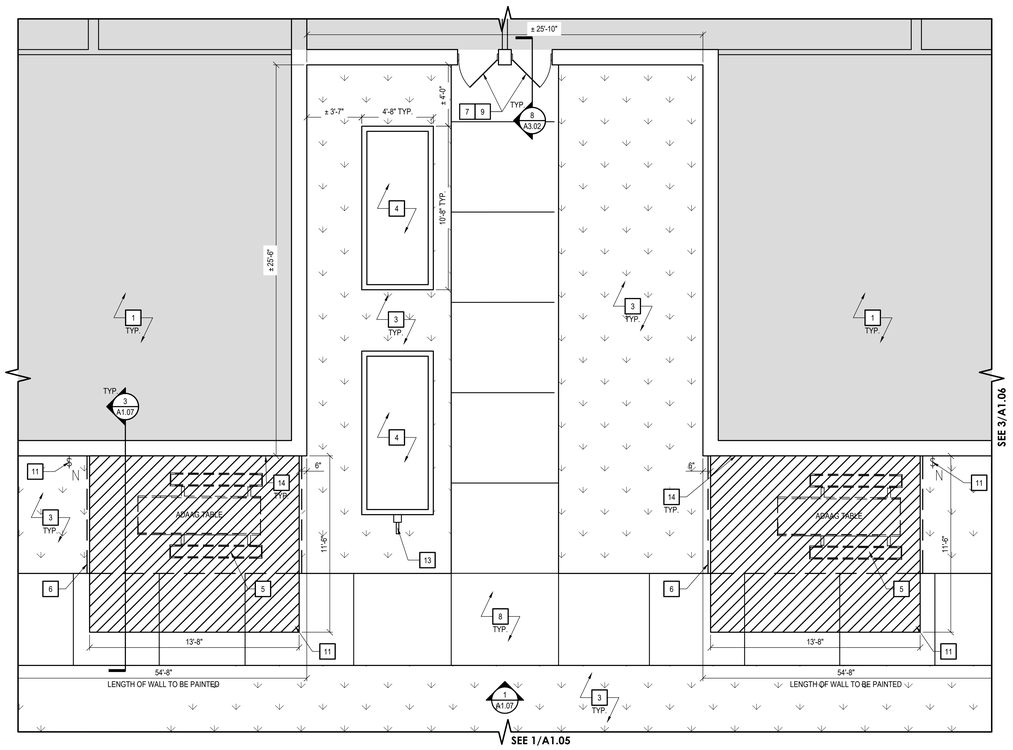
SIGNATURE

PARTIAL CONSTRUCTION PLAN IV

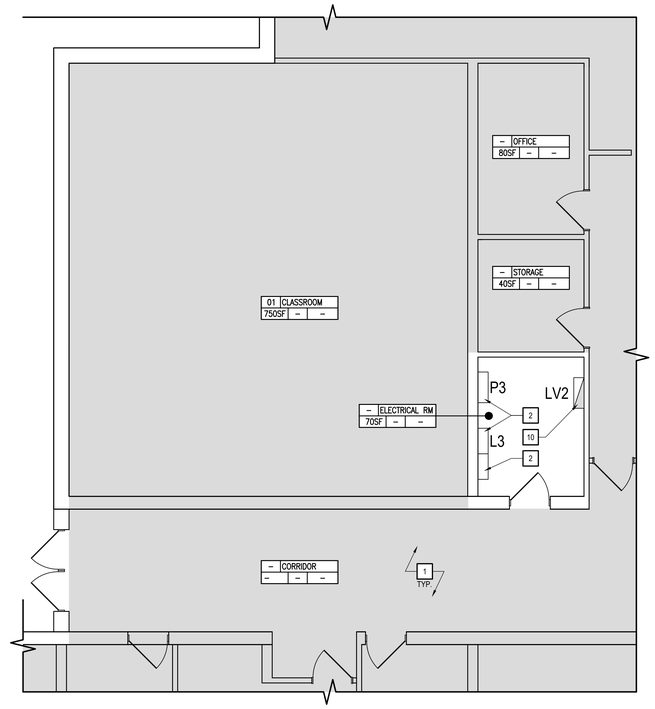
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10552 PROJECT NUMBER	SHEET NUMBER 1 A1.05
05/29/2026 RELEASE DATE	
TFB PROJECT MANAGER:	AR / KG DRAWN BY: / RT CHECKED BY:

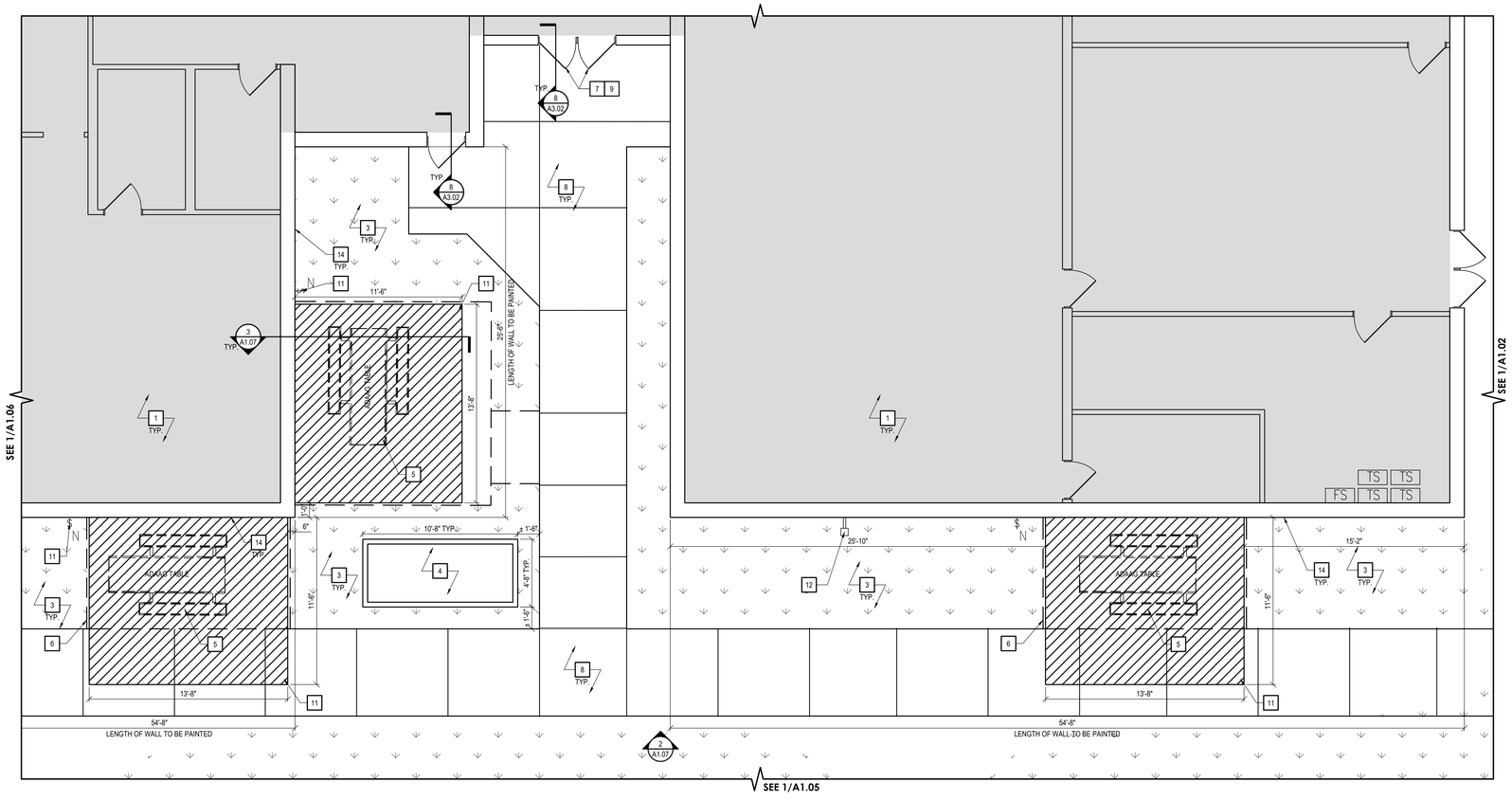
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1 COURTYARD CONSTRUCTION PLAN A & B
SCALE: 1/4" = 1'-0"



2 ELECTRICAL ROOM CONSTRUCTION PLAN
SCALE: 1/4" = 1'-0"



3 COURTYARD CONSTRUCTION PLAN C
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

REFER TO SHEET A1.01 FOR GENERAL NOTES.

DRAWING KEYNOTES:

*THESE NOTES ARE SPECIFIC TO THIS DRAWING ONLY.

1. EXISTING BUILDING TO REMAIN. PROTECT (WINDOWS, DOORS, WALL-MOUNTED EQUIPMENT, ETC.) THROUGHOUT DURATION OF THE PROJECT.
2. EXISTING ELECTRICAL PANEL TO REMAIN. REFER TO ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
3. EXISTING LAWN AREA TO REMAIN. PROTECT THROUGHOUT DURATION OF THE PROJECT. RESTORE ALL DISTURBED AREAS AFFECTED BY CONSTRUCTION. PROVIDE TOPSOIL, FERTILIZER AND SEEDING. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
4. EXISTING PLANTER BOXES TO BE REMOVED IN THEIR ENTIRETY. PROVIDE NEW PLANTER BOXES. REFER TO CIVIL DETAILS FOR FURTHER INFORMATION.
5. EXISTING PICNIC TABLE TO BE REMOVED IN ITS ENTIRETY. PROVIDE NEW PICNIC TABLE. BASIS OF DESIGN: PORTABLE 8' ADAAG TABLE BY BCI BURKE OR APPROVED EQUAL. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
6. EXISTING PAVERS TO BE REMOVED IN THEIR ENTIRETY AND REPLACED IN KIND. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
7. EXISTING DOOR SADDLE TO BE REMOVED IN ITS ENTIRETY. PROTECT EXISTING DOOR AND INTERIOR FINISHED FLOOR SURFACE THROUGHOUT DURATION OF THE PROJECT.
8. PROVIDE CONCRETE SIDEWALK. REFER TO CIVIL DRAWINGS FOR FURTHER INFORMATION.
9. PROVIDE BARRIER-FREE DOOR THRESHOLD AND SWEEP. PROVIDE SHIMMING AS REQUIRED. REFER TO DETAILS FOR FURTHER INFORMATION.
10. PROVIDE ELECTRICAL PANEL. REFER TO ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
11. PROVIDE MOTORIZED FABRIC AWNING WITH CONTROL SWITCH IN WEATHER-PROOF RECEPTACLE BOX. COLOR TO BE SELECTED BY OWNER / ARCHITECT. BASIS OF DESIGN: ECLIPSE PREMIER BY ECLIPSE SHADING OR APPROVED EQUAL. REFER TO ELECTRICAL DRAWINGS AND STANDARD HOOD SPECIFICATIONS FOR FURTHER INFORMATION. REFER TO BARRIER-FREE DETAILS FOR MOUNTING HEIGHT.
12. EXISTING HOSE BIB TO REMAIN. PROTECT THROUGHOUT DURATION OF THE PROJECT. REFER TO PLUMBING DRAWINGS FOR FURTHER INFORMATION.
13. PROVIDE NEW HOSE BIB. REFER TO PLUMBING DRAWINGS FOR FURTHER INFORMATION.
14. PAINT ENTIRE LENGTH OF E.I.F.S. WALL WHERE AWNING IS TO BE MOUNTED. COLOR TO MATCH EXISTING ADJACENT WALL NOT AFFECTED BY AWNING INSTALLATION.

SYMBOL LEGEND

*THESE NOTES ARE SPECIFIC TO THIS DRAWING ONLY.

- HATCH INDICATES AREA NOT IN SCOPE OF WORK EXCEPT WHERE BUILDING SYSTEMS TRANSITION THOSE AREAS AS AFFECTED BY THE PROJECT.
- HATCH INDICATES RESTORED LAWN.
- HATCH INDICATES AMPHITHEATER CANOPY.
- EXISTING DOOR.
- PLANTER BOX.
- PICNIC TABLE.
- EP NEW ELECTRICAL PANEL.
- EP EXISTING ELECTRICAL PANEL.
- $_N WEATHER-PROOF SWITCH.
- WEATHER-PROOF SWITCH.

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PISCATAWAY OUTDOOR PLAY AREA

1670 STELTON ROAD,
PISCATAWAY, NJ, 08854
BLOCK: 9201 LOT: 46.12

REV	DATE	REMARK
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2	05/29/26	ISSUED FOR BIDDING

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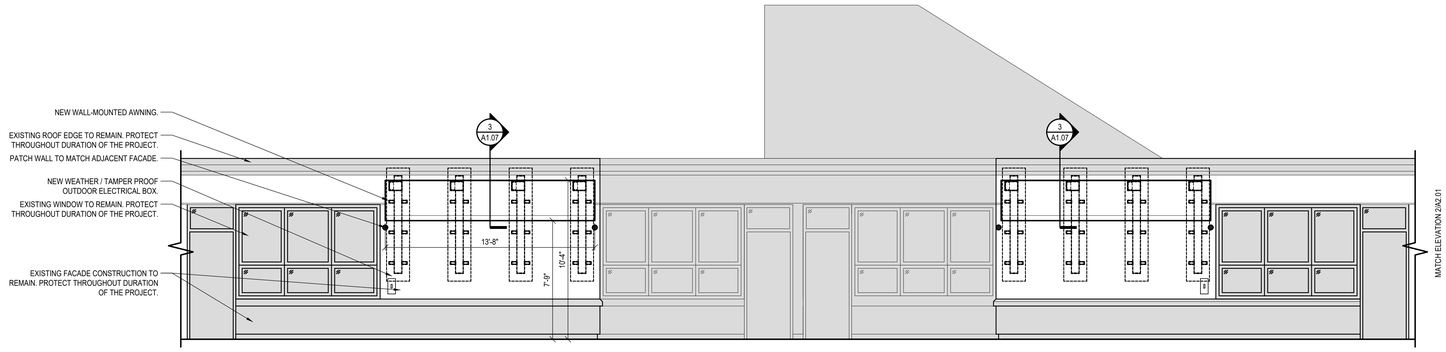
SIGNATURE

COURTYARD CONSTRUCTION PLANS

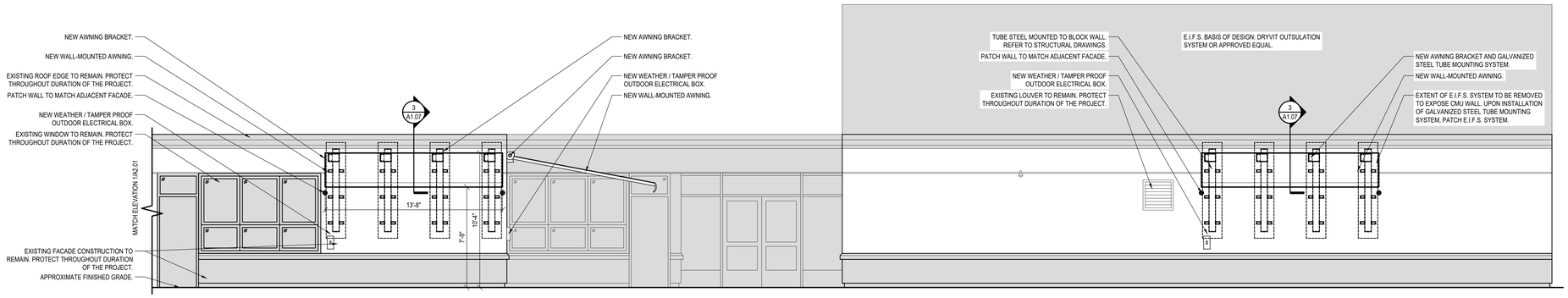
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10552 PROJECT NUMBER	SHEET NUMBER 1 A1.06
05/29/2026 RELEASE DATE	
TFB PROJECT MANAGER:	KG DRAWN BY: / RT CHECKED BY:

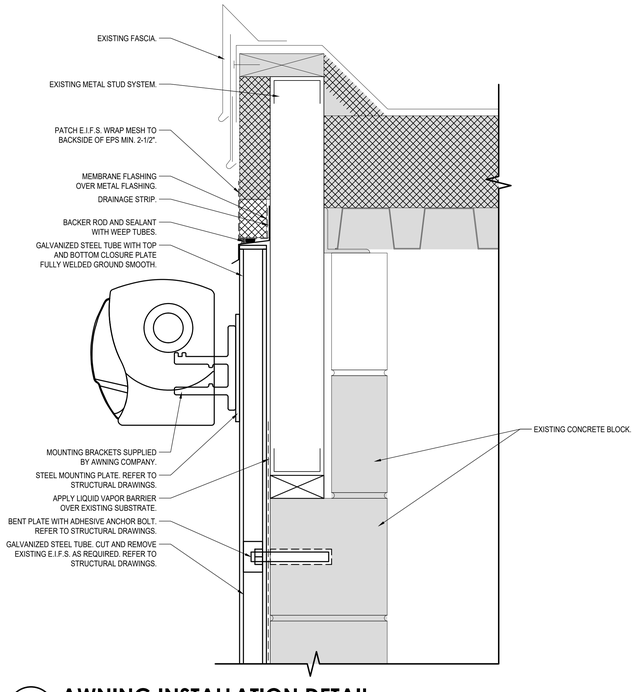
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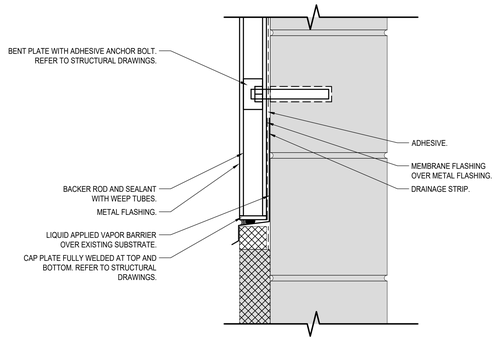
1 BUILDING ELEVATION - COURTYARD A & B
SCALE: 1/4" = 1'-0"

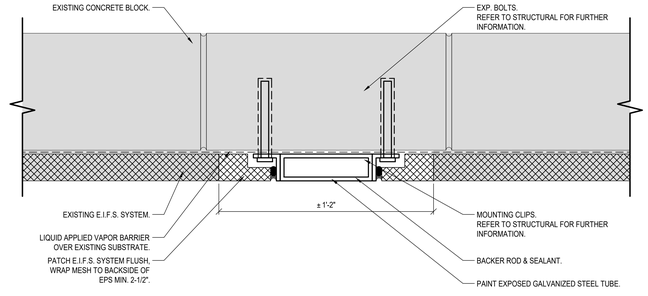


2 BUILDING ELEVATION - COURTYARD C
SCALE: 1/4" = 1'-0"

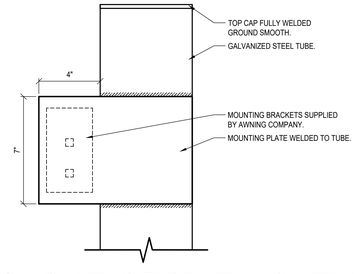


4 AWNING INSTALLATION DETAIL
SCALE: 3" = 1'-0"





3 AWNING MOUNTING TUBE PLAN DETAIL
SCALE: 3" = 1'-0"



5 AWNING MOUNTING TUBE WITH MOUNTING PLATE DETAIL
SCALE: 3" = 1'-0"

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1 06/15/26 ADDENDUM #01

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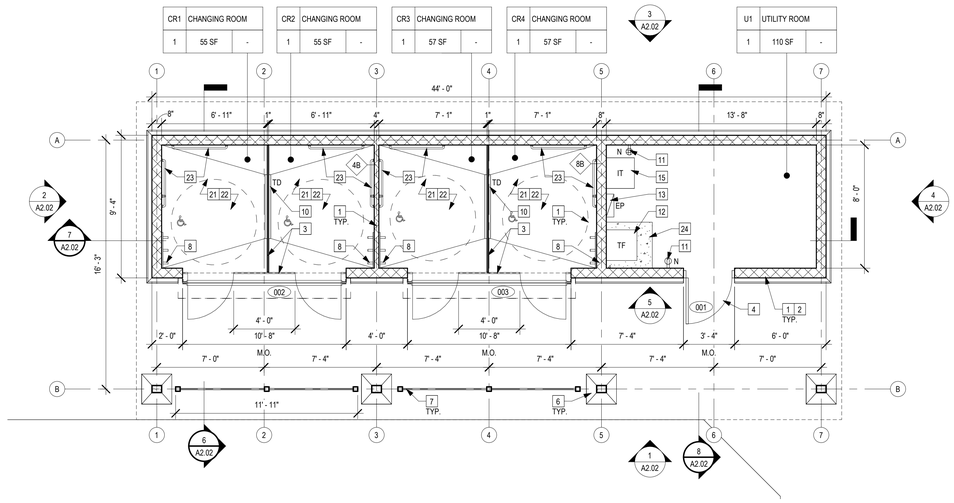
SIGNATURE

AWNING ELEVATIONS AND DETAILS

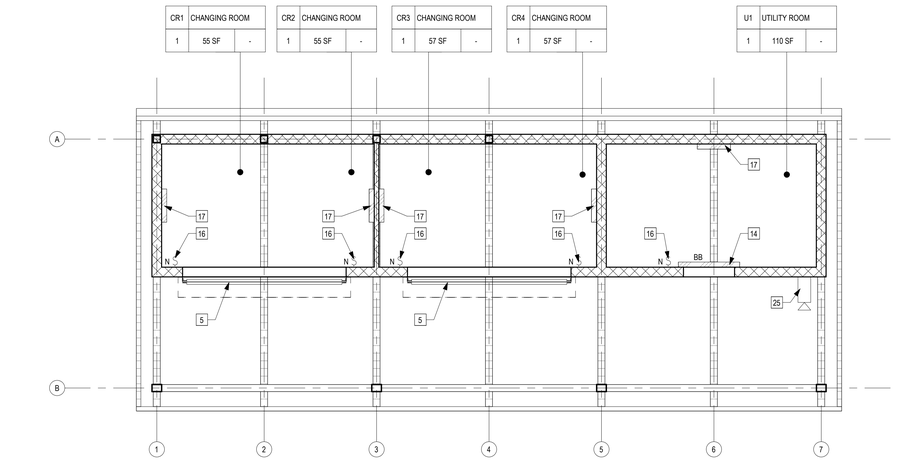
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10552 PROJECT NUMBER	SHEET NUMBER A1.07
05/29/2026 RELEASE DATE	
TFB PROJECT MANAGER:	KG DRAWN BY: / RT CHECKED BY:

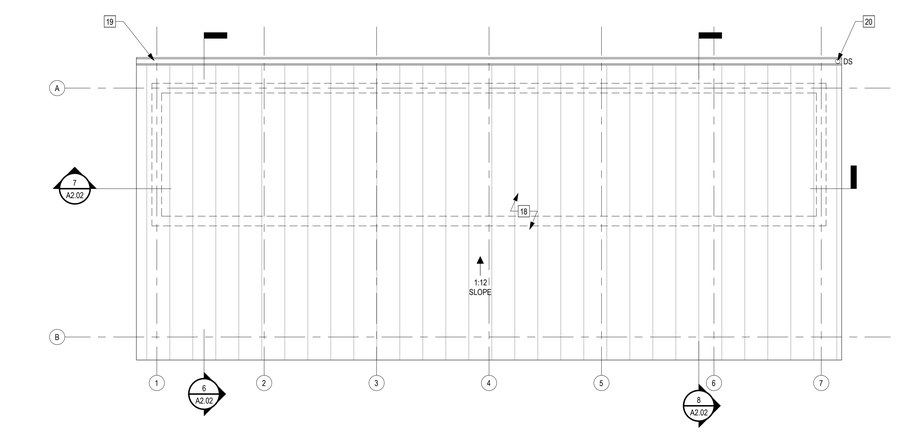
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1 CONSTRUCTION FLOOR PLAN - FIELD HOUSE
SCALE: 1/4" = 1'-0"



2 CONSTRUCTION REFLECTED CEILING PLAN - FIELD HOUSE
SCALE: 1/4" = 1'-0"



3 CONSTRUCTION ROOF PLAN - FIELD HOUSE
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

REFER TO SHEET A1.01 FOR GENERAL NOTES.

DRAWING KEYNOTES:

*THESE NOTES ARE SPECIFIC TO THIS DRAWING ONLY.

1. PROVIDE CONCRETE FILLED MASONRY WALL. REFER TO DETAILS FOR FURTHER INFORMATION.
2. PROVIDE WALL-MOUNTED CULTURED STONE WITH CAST STONE CAP. (BASIS OF DESIGN: CULTURED STONE, COUNTRY LEDGESTONE BY WESTLAKE ROYAL BUILDING PRODUCTS OR APPROVED EQUAL). COLOR TO BE SELECTED BY OWNER / ARCHITECT DURING SUBMITTAL PERIOD. REFER TO DETAILS FOR FURTHER INFORMATION.
3. PROVIDE FLOOR-MOUNTED TOILET PARTITION AND PARTITION DOOR WITH OVERHEAD BRACING, STAINLESS STEEL HARDWARE, CONTINUOUS WALL-MOUNTING BRACKETS AND STAINLESS STEEL TAMPER-RESISTANT ANCHOR BOLTS. PROVIDE BLOCKING AS REQUIRED. (BASIS OF DESIGN: SIERRASERIES 1092 SERIES OVERHEAD-BRACED BY BOBRICK WASHROOM EQUIPMENT OR APPROVED EQUAL).
4. PROVIDE DOOR, FRAME, HARDWARE AND ALL ASSOCIATED COMPONENTS. REFER TO DOOR SCHEDULE FOR FURTHER INFORMATION.
5. PROVIDE OVERHEAD ROLLING DOOR MOUNTED TO MASONRY ABOVE OPENING. (BASIS OF DESIGN: CORROSION RESISTANT SERVICE DOOR BY CORNELL COOKSON OR APPROVED EQUAL.) REFER TO DOOR SCHEDULE AND SPECIFICATIONS FOR FURTHER INFORMATION.
6. PROVIDE FIELD HOUSE COLUMN WITH GLULAM COLUMN EXTENSION. REFER TO DETAILS FOR FURTHER INFORMATION.
7. PROVIDE PRIVACY PARTITION PANEL WITH POSTS. (BASIS OF DESIGN: ALUMINUM LASER CUT PANELS DESIGN #09 BY ICON SHELTER SYSTEMS OR APPROVED EQUAL). INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
8. PROVIDE WALL-MOUNTED HOOKS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
9. NOT USED.
10. PROVIDE TRENCH DRAIN. REFER TO PLUMBING DRAWINGS FOR FURTHER INFORMATION.
11. PROVIDE CMU WALL-MOUNTED ELECTRICAL OUTLET, MOUNT 18" A.F.F. (U.N.O.). PROVIDE RECEPTACLE, PLATE COVER, CONDUIT, WIREMOLD COVER AND CABLING. REFER TO ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
12. RELOCATE EXISTING TRANSFORMER AND DISCONNECT SWITCH TO BE INSTALLED ABOVE CONCRETE PAD. REFER TO ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
13. PROVIDE ELECTRICAL PANEL. REFER TO ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
14. PROVIDE ELECTRIC BASEBOARD WITH BUILT-IN THERMOSTAT ABOVE DOOR. REFER TO ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
15. PROVIDE INFORMATION TECHNOLOGY EQUIPMENT, RACK, CABLING, AND ASSOCIATED COMPONENTS. REFER TO ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
16. PROVIDE LIGHT SWITCH. REFER TO ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
17. PROVIDE WALL-MOUNTED LIGHT FIXTURES. REFER TO ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
18. PROVIDE STANDING SEAM METAL ROOFING SYSTEM AND ASSOCIATED ACCESSORIES. (BASIS OF DESIGN: GARLAND R-MER SHIELD OR APPROVED EQUAL). REFER TO DETAILS AND SPECIFICATIONS FOR FURTHER INFORMATION.
19. PROVIDE 6"x6" GUTTER SYSTEM. COLOR TO MATCH METAL ROOF. REFER TO DETAILS AND SPECIFICATIONS FOR FURTHER INFORMATION.
20. PROVIDE DOWNSPOUT WITH BOOT AND ACCESSIBLE CLEANOUT DOOR AT GRADE. (BASIS OF DESIGN: PIEDMONT PIPE MANUFACTURING B1 "DOWNSPOUT BOOT" OR APPROVED EQUAL). COORDINATE DROP AND DISCHARGE BELOW AND TIE INTO NEW UNDERGROUND STORM WATER PIPING BELOW. FASTEN WITH MOUNTING BRACKETS AS REQUIRED. REFER TO DETAILS AND CIVIL DRAWINGS FOR FURTHER INFORMATION.
21. PROVIDE EPOXY FLOOR WITH CONTINUOUS STAINLESS STEEL TRANSITION STRIP AT MASONRY OPENING.
22. PROVIDE FINISH COAT ON ALL EXPOSED FACES AND TOP OF CONCRETE BLOCK.
23. PROVIDE GRAB BAR WITH PEENED GRIP SURFACE. COORDINATE MOUNTING HEIGHTS WITH OTHER ACCESSORIES IN FIELD. REFER TO DETAILS FOR MOUNTING HEIGHTS.
24. PROVIDE CONCRETE PAD. REFER TO ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
25. PROVIDE SECURITY CAMERA. REFER TO ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.

SYMBOL LEGEND:

***THESE NOTES ARE SPECIFIC TO THIS DRAWING ONLY.**

- MASONRY WALL.
- CULTURED STONE.
- RESTROOM PARTITION AND DOOR.
- NEW DOOR AND DOOR FRAME.
- OVERHEAD ROLLING DOOR.
- PORCH COLUMN WITH GLULAM EXTENSION.
- TD — TRENCH DRAIN.
- PARTITION-MOUNTED HOOKS.
- PRIVACY PARTITION PANEL.
- WALL-MOUNTED LIGHT FIXTURE.
- INTERIOR BENCH.
- FLOOR TRANSITION STRIP.
- SECURITY CAMERA.
- OUTLET / POWER RECEPTACLE. (N) INDICATES NEW.
- LIGHT SWITCH.
- BARRIER FREE TURNING RADIUS CLEARANCE.
- IT — IT RACK.
- TF — RELOCATED TRANSFORMER.
- EP — ELECTRICAL PANEL.
- BB — ELECTRIC BASEBOARD.
- CONCRETE PAD.

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PISCATAWAY OUTDOOR PLAY AREA

1670 STELTON ROAD,
PISCATAWAY, NJ, 08854
BLOCK: 9201 LOT: 46.12

REV	DATE	REMARK
1	06/15/2026	ADDENDUM #01

- Gregory J. Somjen, A.I.A. CID
  - Connecticut Architect 8622
  - Delaware Architect 6116
  - Massachusetts Architect 9629
  - NCARB Registration 47178
  - New Jersey Architect 13349
  - New York Architect 32435
  - North Carolina Architect 16879
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  - Pennsylvania Architect RA409555
  - South Carolina Architect 10382
- Richard J. Trautwein, A.I.A.
  - New Jersey Architect 12199

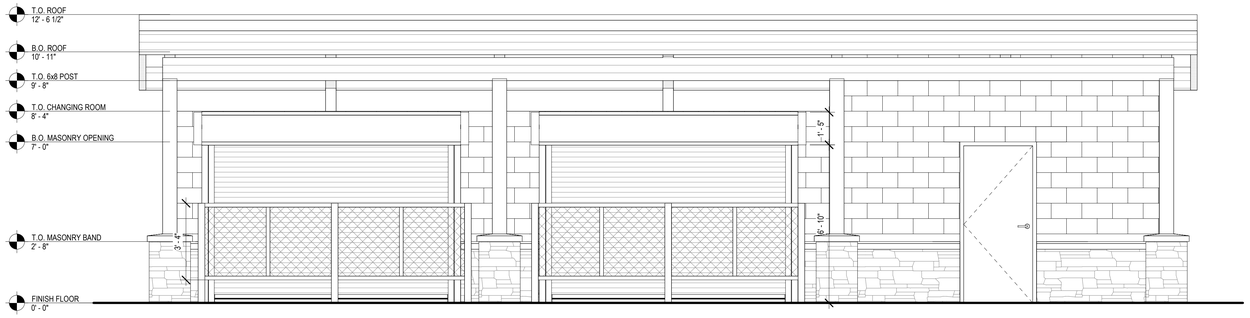
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FIELD HOUSE CONSTRUCTION PLANS

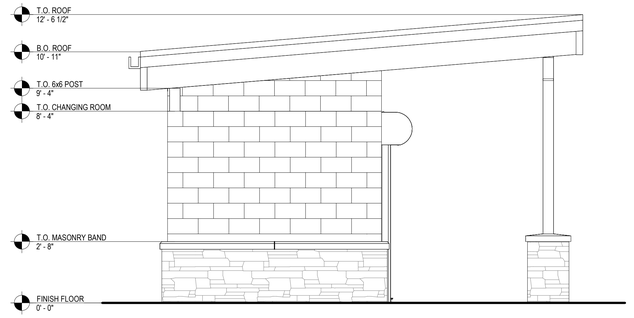
THE SCALE REPRESENTED ON THESE DRAWINGS IS ONLY VALID IF THE DRAWING IS 42" x 30". DRAWINGS WHICH ARE NOT PLOTTED AT THE SPECIFIED SHEET SIZE ARE NOT TO SCALE.

10552 PROJECT NUMBER	SHEET NUMBER 1 A2.01
05/29/2026 RELEASE DATE	
TFB PROJECT MANAGER	KG DRAWN BY / RT CHECKED BY

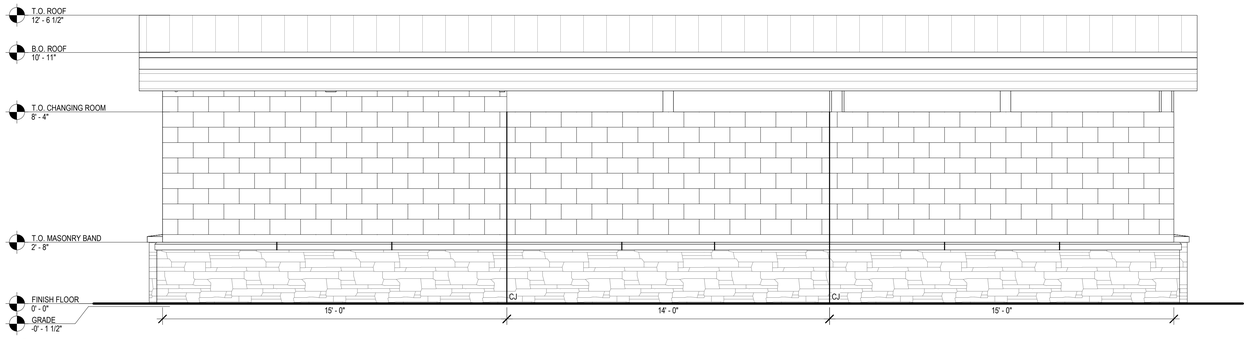
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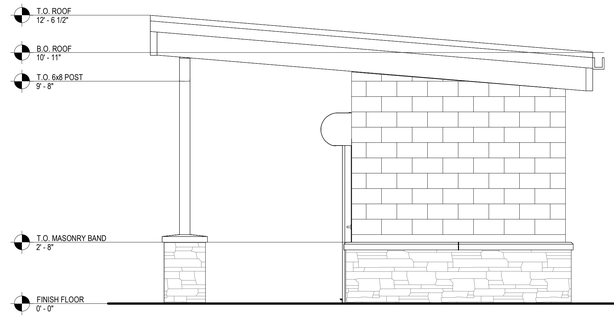
1 CHANGING ROOM WEST ELEVATION
SCALE: 3/8" = 1'-0"



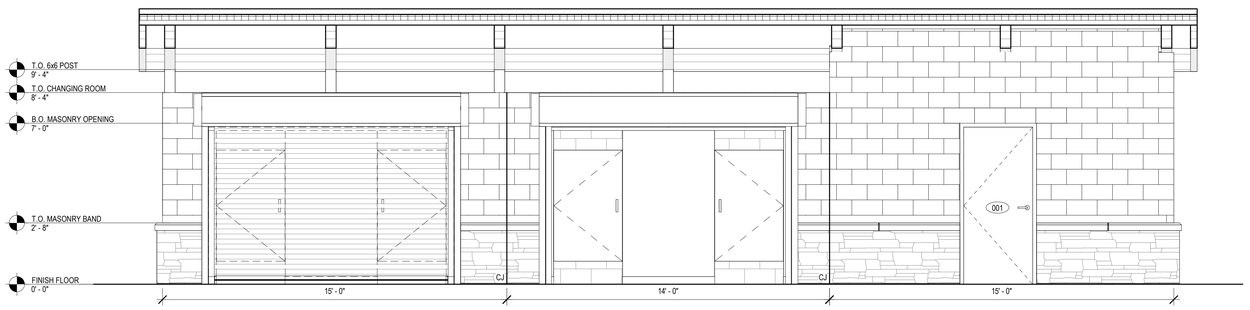
2 CHANGING ROOM NORTH ELEVATION
SCALE: 3/8" = 1'-0"



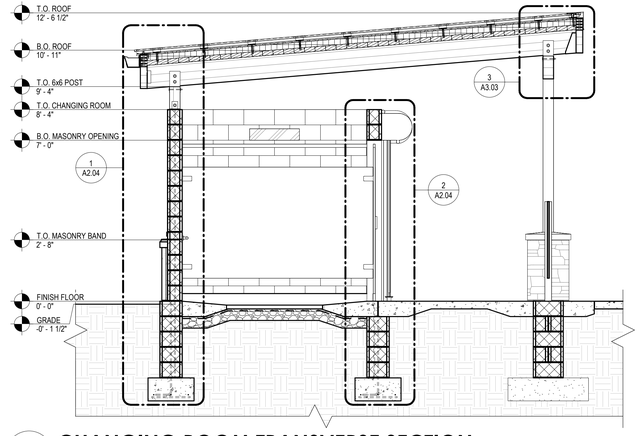
3 CHANGING ROOM EAST ELEVATION
SCALE: 3/8" = 1'-0"



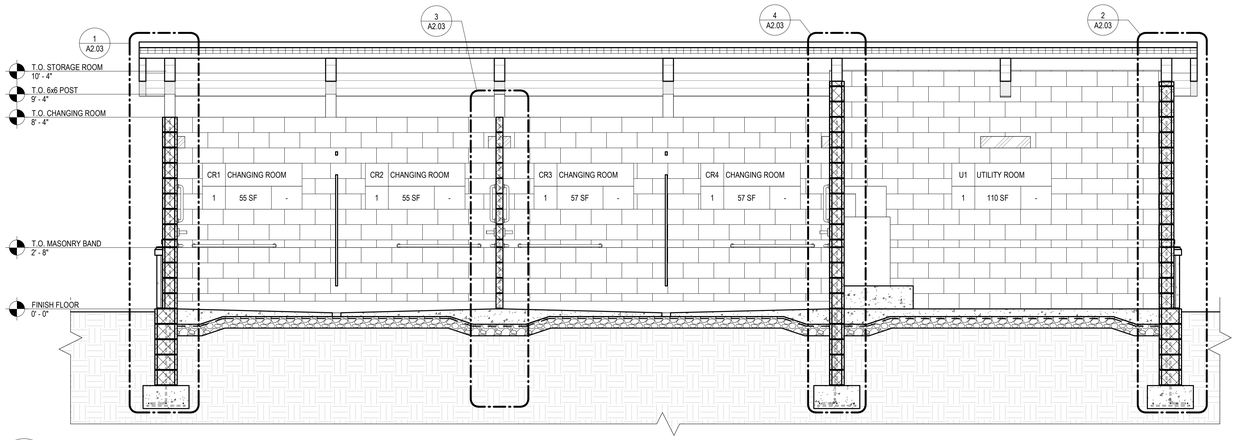
4 CHANGING ROOM SOUTH ELEVATION
SCALE: 3/8" = 1'-0"



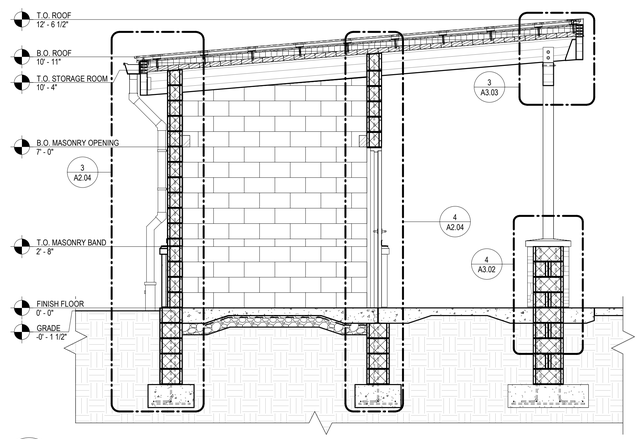
5 CHANGING ROOM DOOR ELEVATION
SCALE: 3/8" = 1'-0"



6 CHANGING ROOM TRANSVERSE SECTION
SCALE: 3/8" = 1'-0"



7 FIELD HOUSE LONGITUDINAL SECTION
SCALE: 3/8" = 1'-0"



8 UTILITY ROOM TRANSVERSE SECTION
SCALE: 3/8" = 1'-0"

Parette Somjen Architects
A Limited Liability Corporation
CERT. NO. 21AC00039800
439 Route 46 East
Rockaway, NJ 07866
Tel. 973.586.2400
fax. 973.586.2401
www.planetPSA.com

PROPOSED IMPROVEMENTS FOR EDUCATIONAL SERVICES COMMISSION OF NEW JERSEY:

PISCATAWAY OUTDOOR PLAY AREA

1670 STELTON ROAD,
PISCATAWAY, NJ, 08854
BLOCK: 9201 LOT: 46.12

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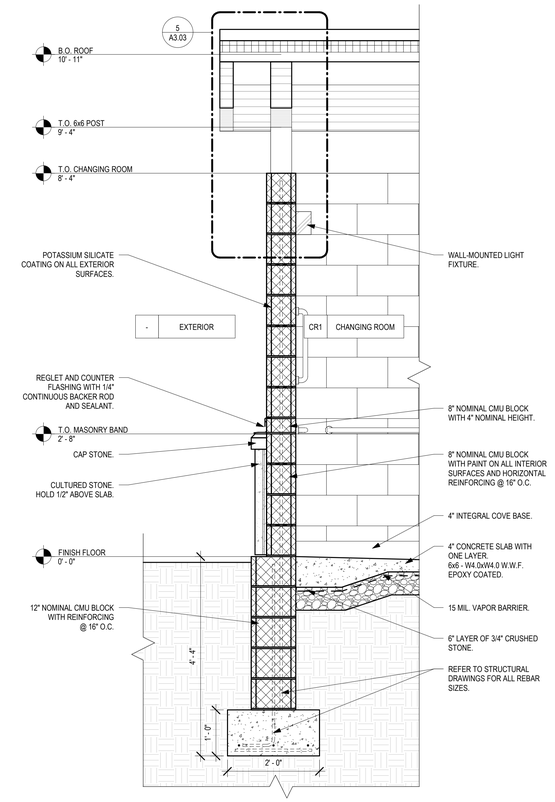
SIGNATURE

FIELD HOUSE ELEVATIONS AND SECTIONS

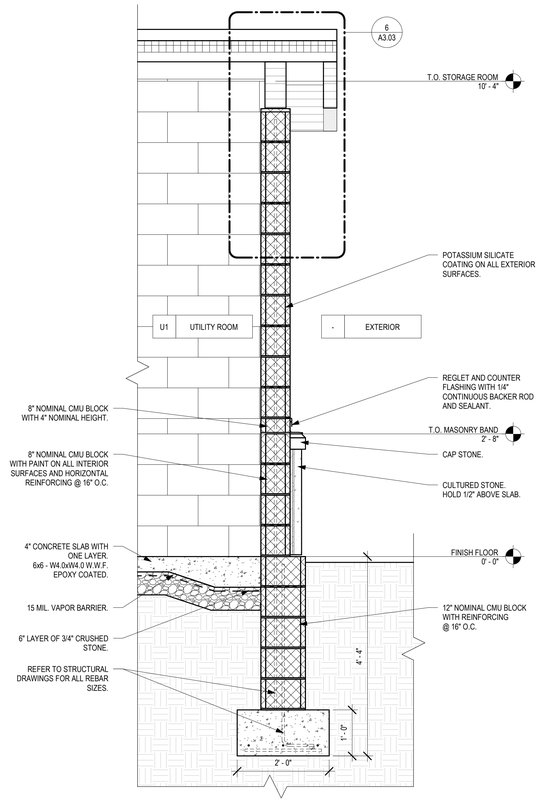
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10552	SHEET NUMBER
PROJECT NUMBER	A2.02
05/29/2026	
RELEASE DATE	
TFB	KG / RT
PROJECT MANAGER	DRAWN BY / CHECKED BY

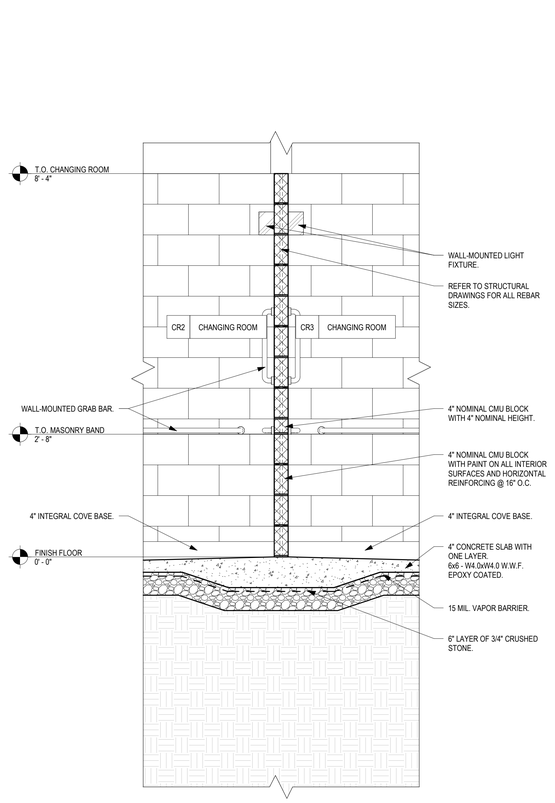
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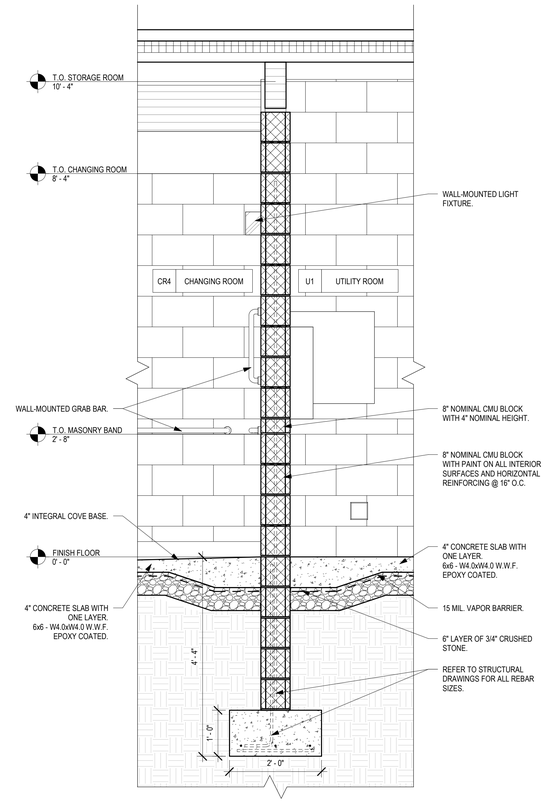
1 WALL SECTION @ NORTH WALL
SCALE: 3/4" = 1'-0"



2 WALL SECTION @ SOUTH WALL
SCALE: 3/4" = 1'-0"



3 WALL SECTION @ INTERIOR 4" CMU WALL
SCALE: 3/4" = 1'-0"



4 WALL SECTION @ INTERIOR 8" CMU WALL
SCALE: 3/4" = 1'-0"

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PISCATAWAY OUTDOOR PLAY AREA

1670 STELTON ROAD,
PISCATAWAY, NJ, 08854
BLOCK: 9201 LOT: 46.12

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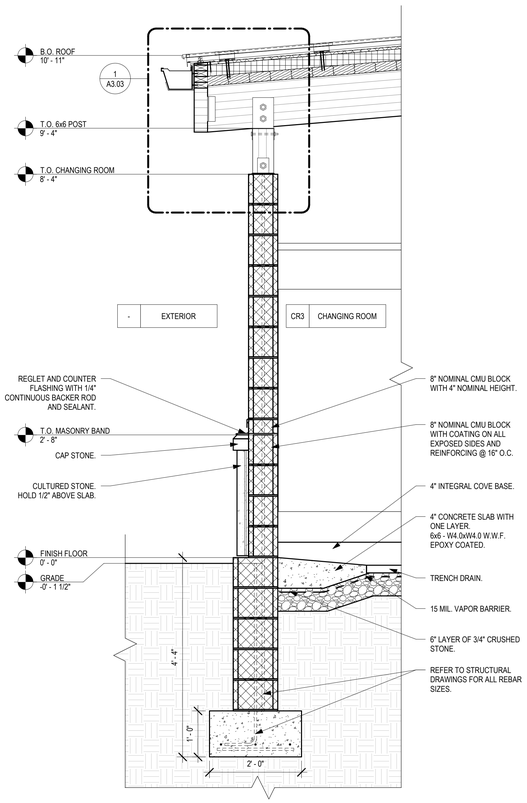
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FIELD HOUSE WALL SECTIONS I

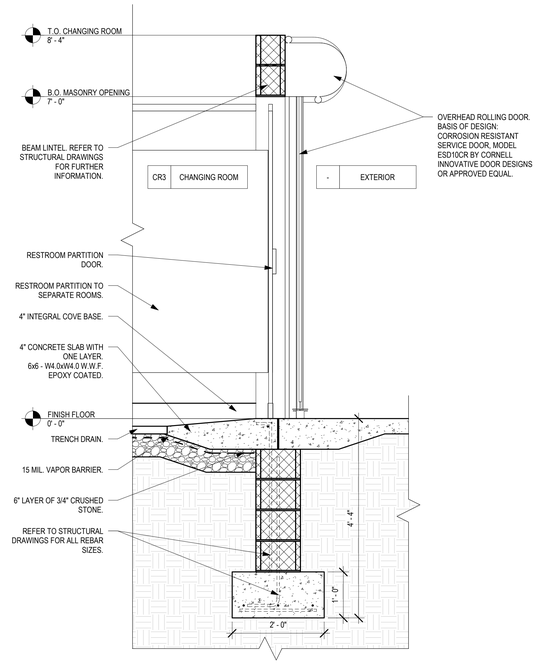
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10552 PROJECT NUMBER	SHEET NUMBER 1 A2.03
05/29/2026 RELEASE DATE	
TFB PROJECT MANAGER	KG DRAWN BY / RT CHECKED BY

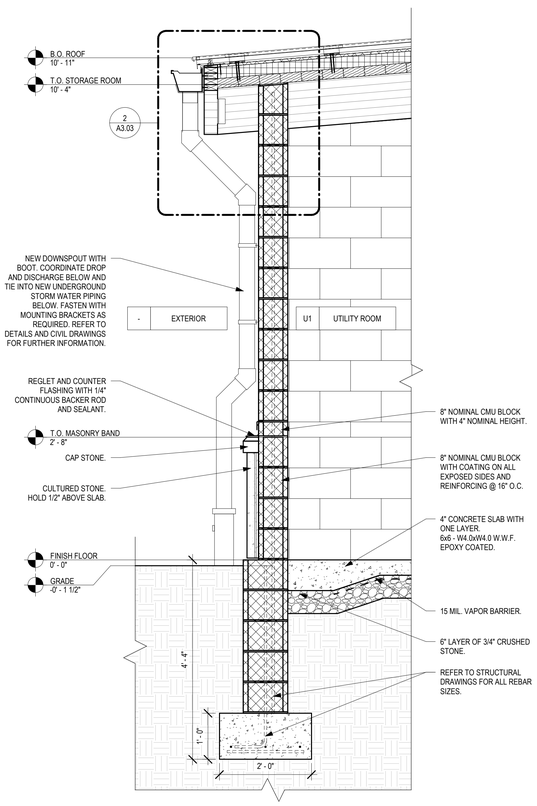
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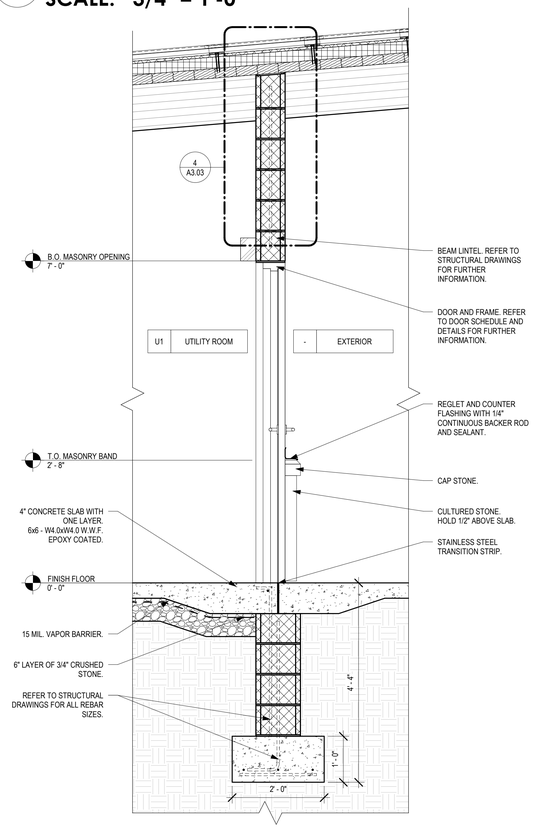
1 WALL SECTION @ REAR CHANGING ROOM WALL
SCALE: 3/4" = 1'-0"



2 WALL SECTION @ FRONT CHANGING ROOM WALL
SCALE: 3/4" = 1'-0"



3 WALL SECTION @ REAR UTILITY ROOM WALL
SCALE: 3/4" = 1'-0"



4 WALL SECTION @ FRONT UTILITY ROOM WALL
SCALE: 3/4" = 1'-0"

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1670 STELTON ROAD,
PISCATAWAY, NJ, 08854
BLOCK: 9201 LOT: 46.12

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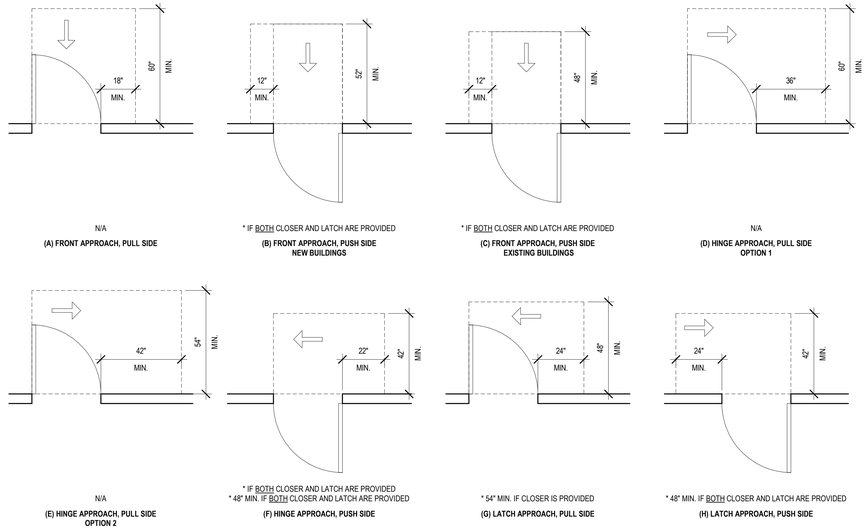
SIGNATURE

FIELD HOUSE WALL SECTIONS II

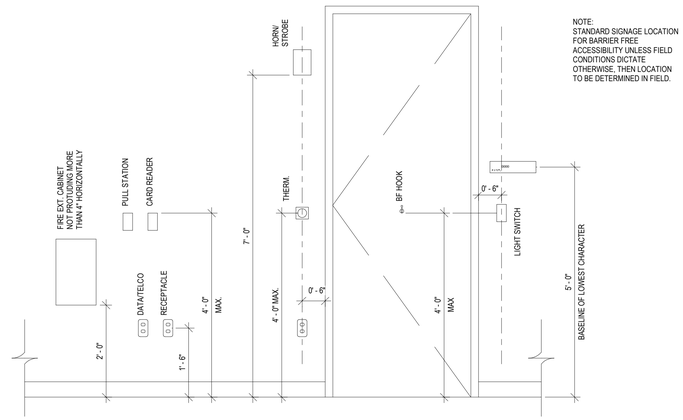
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10552	1 SHEET NUMBER A2.04
PROJECT NUMBER	
05/29/2026	
RELEASE DATE	
TPB	KG RT
PROJECT MANAGER	DRAWN BY CHECKED BY

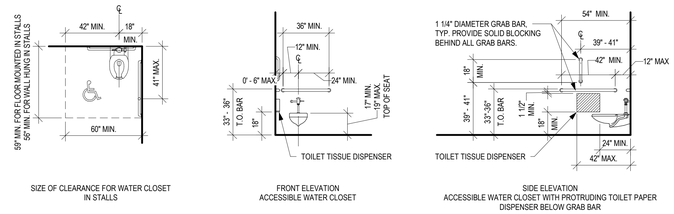
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1 BARRIER FREE MANEUVERING CLEARANCES
SCALE: 3/8" = 1'-0"

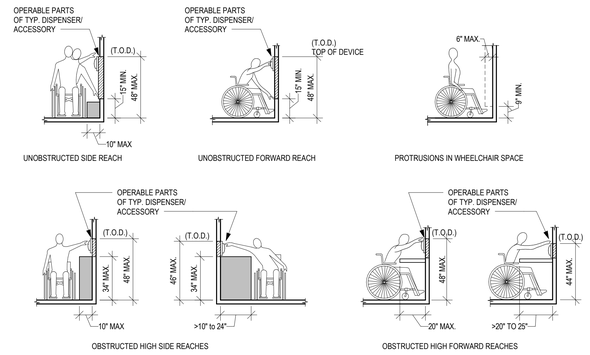


2 TYPICAL WALL ITEMS
SCALE: 3/4" = 1'-0"

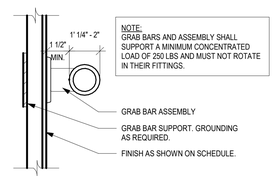


NOTE:
DIMENSION LOCATIONS ARE TO OPERATING CONTROLS OF THE MECHANISM, UNLESS OTHERWISE NOTED.

3 BARRIER FREE CLEARANCES FOR GRAB BARS
SCALE: 1/4" = 1'-0"



4 WHEELCHAIR REACH DIMENSIONS AND PROTRUSIONS
SCALE: 1/4" = 1'-0"



5 GRAB BAR DETAIL (TYP.)
SCALE: 3" = 1'-0"

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⚠ 06/15/2026 ADDENDUM #01

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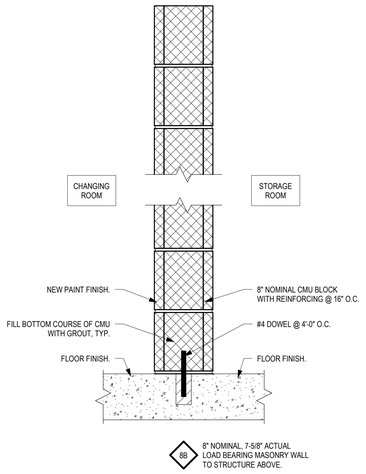
SIGNATURE

BARRIER FREE TYPICAL DETAILS

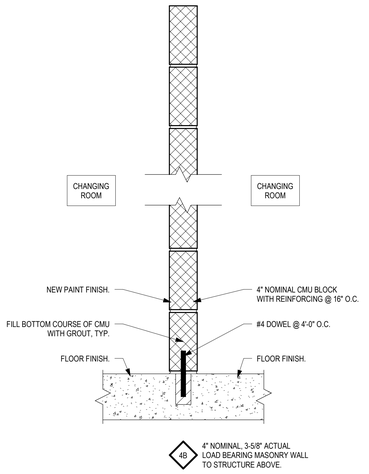
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05/29/2026 RELEASE DATE	
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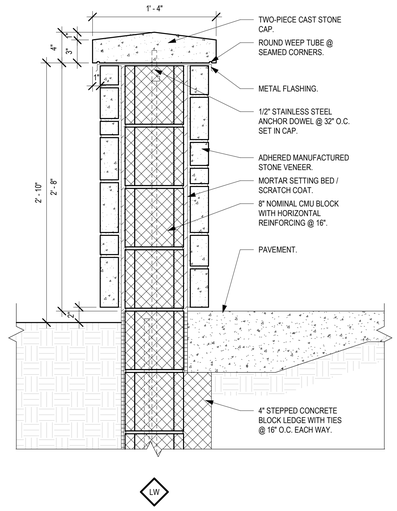
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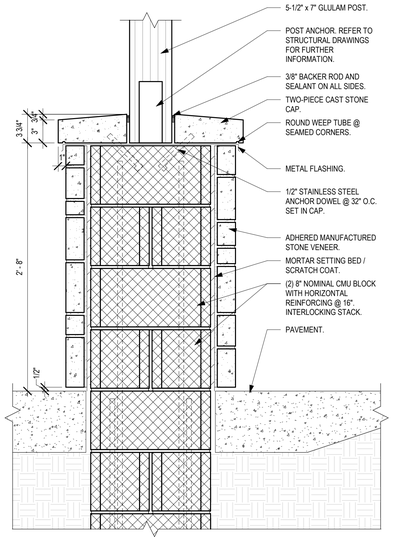
1 WALL TYPE - 8B
SCALE: 1 1/2" = 1'-0"



2 WALL TYPE - 4B
SCALE: 1 1/2" = 1'-0"



3 LANDSCAPE WALL (LW)
SCALE: 1 1/2" = 1'-0"

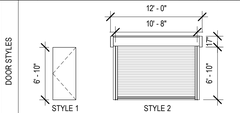


4 PIER / POST DETAIL
SCALE: 1 1/2" = 1'-0"

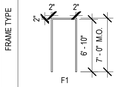
DOOR SCHEDULE

DOOR SYMBOL	DOOR SIZE WIDTH X HEIGHT	DOOR STYLE	DOOR CORE	DOOR MATERIAL	DOOR FINISH	FRAME STYLE	FRAME TYPE	FRAME FINISH	ASSEMBLY STOP	ASSEMBLY HARDWARE SET	ASSEMBLY CLOSER	ASSEMBLY TRANSITION	ASSEMBLY SILENCER	ASSEMBLY FIRE RATING	REMARKS REFER TO NOTES SECTION
001	3'-0" x 6'-10"	1	FRP	FRP	FRP	F1	AL	PT	•	H	•	•	•	20 MIN.	SEE NOTES 1, 2, 3, 4 & 5
002	10'8"W x 8'0"H	2	N/A	AL	AL	•	STL	PT	•	H	•	•	•	N/A	SEE NOTES 1, 2, 3, 4, 5 & 6
003	10'8"W x 8'0"H	2	N/A	AL	AL	•	STL	PT	•	H	•	•	•	N/A	SEE NOTES 1, 2, 3, 4, 5 & 6

DOOR STYLES



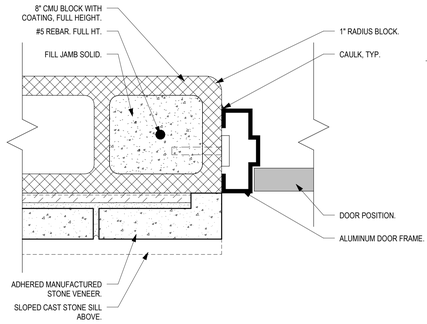
FRAME TYPE

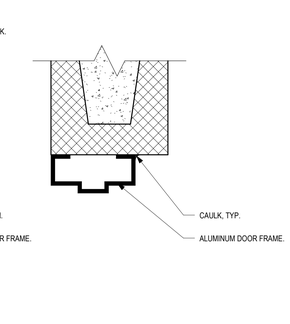


DOOR INFO	DOOR MATERIAL	DOOR FINISH
	FRP: FIBERGLASS REINFORCED POLYESTER AL: ALUMINUM	FRP: COLOR TO BE SELECTED BY OWNER / ARCHITECT
FRAME INFO	FRAME TYPE	FRAME FINISH
	AL: ALUMINUM	PT: PAINT DOOR FRAMES (SEE FINISH SCHEDULE)
ASSEMBLY INFO	STOP TYPE	HARDWARE TYPE
	WM: WALL MOUNTED OH: OVERHEAD	H: NEW HARDWARE (SEE SPECIFICATIONS) EXTERIOR RATED MORTISE STORAGE ROOM. LOCKSET WITH LEVER. BASIS OF DESIGN: SCHLAGE L9000 SERIES, HINGES 4" NRP, BALL-BEARING HINGES, STAINLESS STEEL, HEAVY DUTY CLOSER.

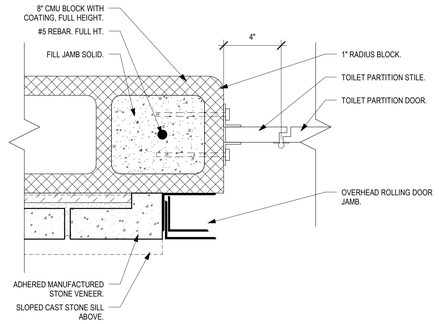
NOTES

1. ALL NEW HARDWARE SHALL BE BARRIER FREE COMPLIANT LEVER HARDWARE AS PER BUILDING STANDARD. CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO ORDER / INSTALLATION ON ALL HARDWARE TYPES (ie. PASSAGE, PRIVACY, KEYED, ETC.). TYP.
2. CONTRACTOR TO COORDINATE WITH OWNER FOR KEYING & SECURITY REQUIREMENTS ON ALL DOORS PRIOR TO ORDER & INSTALLATION. TYP.
3. DOOR KEY CORES ARE SFIC, TO MATCH WITH THE REST OF THE SCHOOL.
4. DOT INDICATES SPECIFICATIONS FOR ASSEMBLY INFORMATION.
5. DOT INDICATES INCLUDED IN BASIS OF DESIGN.
6. OVERHEAD ROLLING DOOR BASIS OF DESIGN: CORROSION RESISTANT SERVICE DOOR BY CORNELL COOKSON OR APPROVED EQUAL.

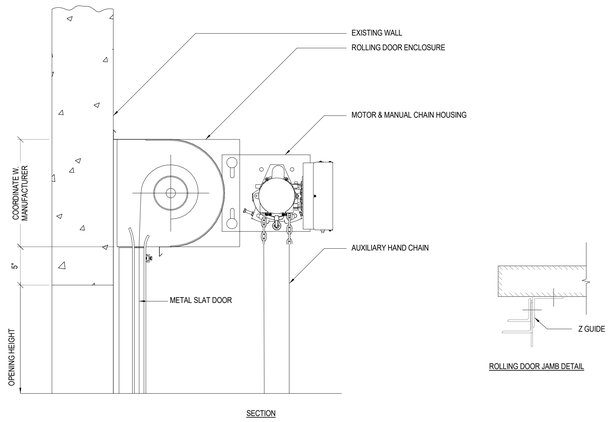




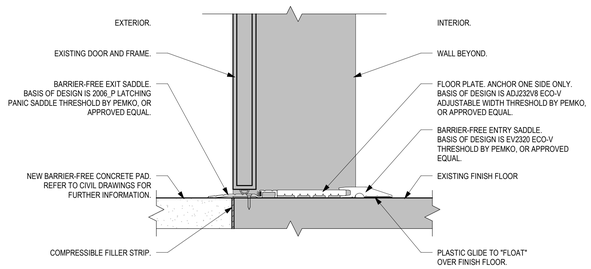
5 DOOR FRAME DETAIL - UTILITY ROOM
SCALE: 3" = 1'-0"



6 DOOR FRAME DETAIL - CHANGING ROOM
SCALE: 3" = 1'-0"



7 OVERHEAD ROLLING DOOR HEADER DETAIL
SCALE: 1 1/2" = 1'-0"



8 EXTERIOR THRESHOLD DETAIL (TYP.)
SCALE: 3" = 1'-0"

Parette Somjen Architects
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CERT. NO. 21AC00039800
439 Route 46 East
Rockaway, NJ 07866
Tel. 973.586.2400
fax. 973.586.2401
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PROPOSED IMPROVEMENTS FOR EDUCATIONAL SERVICES COMMISSION OF NEW JERSEY:

PISCATAWAY OUTDOOR PLAY AREA

1670 STELTON ROAD,
PISCATAWAY, NJ, 08854
BLOCK: 9201 LOT: 46.12

REV	DATE	REMARK
1	06/15/2026	ADDENDUM #01

- Gregory J. Somjen, A.I.A. CID
  - Connecticut Architect 8622
  - Delaware Architect 6116
  - Massachusetts Architect 9629
  - NCARB Registration 47178
  - New Jersey Architect 13349
  - New York Architect 32435
  - North Carolina Architect 16879
- William H. Bannister, A.I.A. LEEDap
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  - Pennsylvania Architect RA409555
  - South Carolina Architect 10382
- Richard J. Trautwein, A.I.A.
  - New Jersey Architect 12199

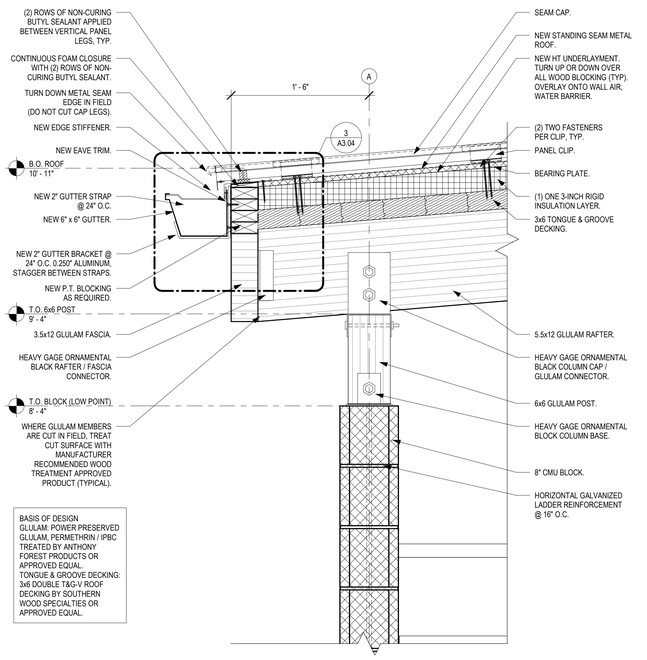
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DOOR SCHEDULE AND WALL TYPE DETAILS

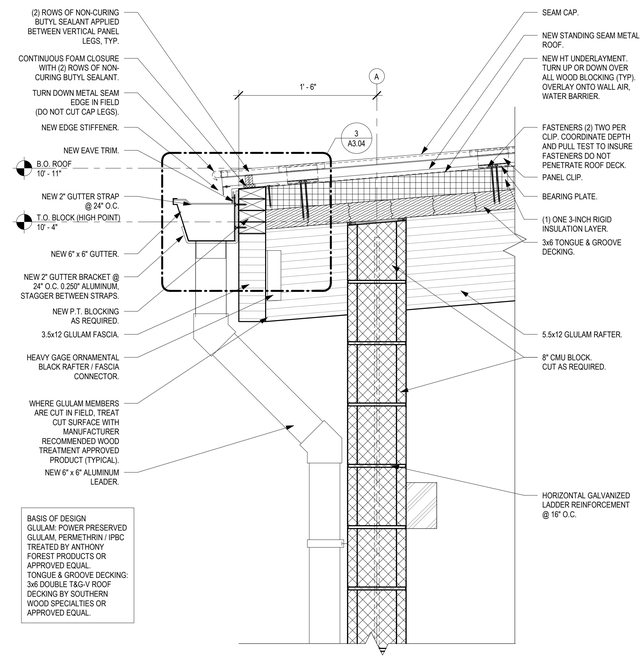
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10552	SHEET NUMBER 1 A3.02
PROJECT NUMBER	
05/29/2026	
RELEASE DATE	
TR	KG / RT
PROJECT MANAGER	DRAWN BY / CHECKED BY

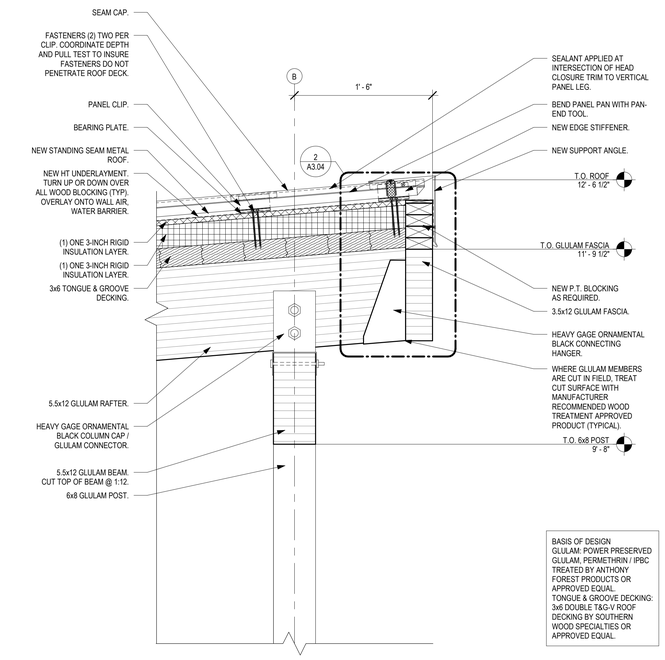
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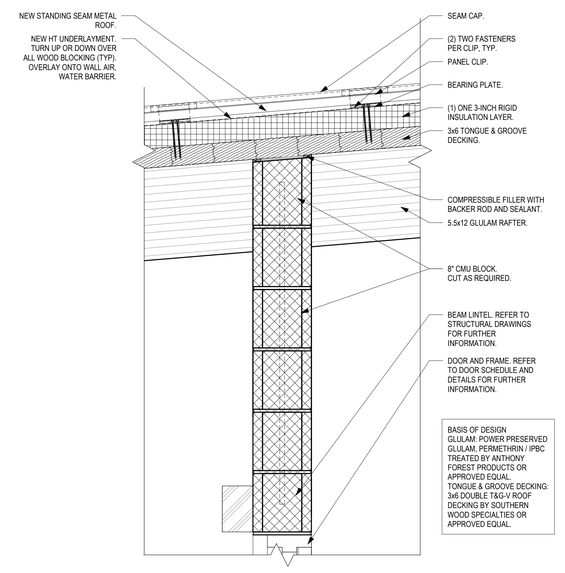
1 ROOF DETAIL @ REAR OVERHANG, CHANGING ROOM
SCALE: 1 1/2" = 1'-0"



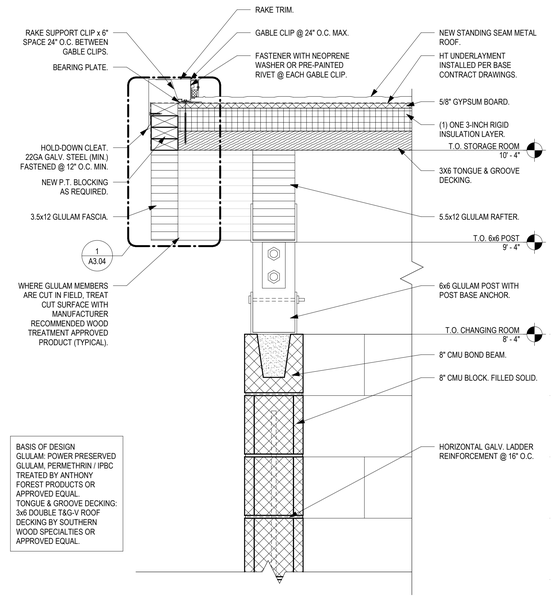
2 ROOF DETAIL @ REAR OVERHANG, STORAGE ROOM
SCALE: 1 1/2" = 1'-0"



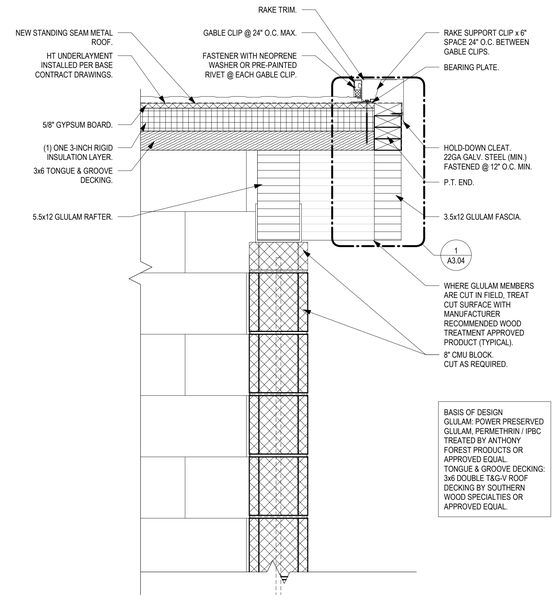
3 ROOF DETAIL @ FRONT OVERHANG
SCALE: 1 1/2" = 1'-0"



4 ROOF DETAIL @ STORAGE ROOM ENTRANCE
SCALE: 1 1/2" = 1'-0"



5 ROOF RAKE DETAIL @ CHANGING ROOM
SCALE: 1 1/2" = 1'-0"



6 ROOF RAKE DETAIL @ STORAGE ROOM
SCALE: 1 1/2" = 1'-0"

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PISCATAWAY OUTDOOR PLAY AREA

1670 STELTON ROAD,
PISCATAWAY, NJ, 08854
BLOCK: 9201 LOT: 46.12

REV	DATE	REMARK
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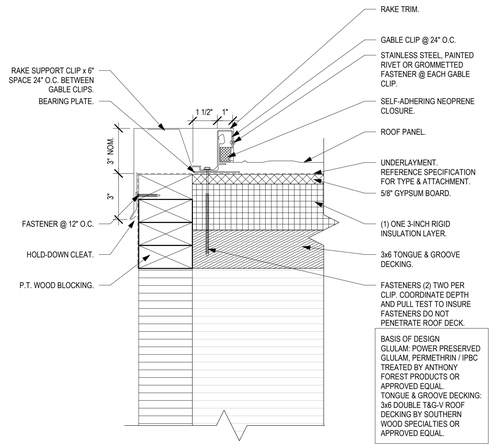
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FIELD HOUSE ROOF DETAILS I

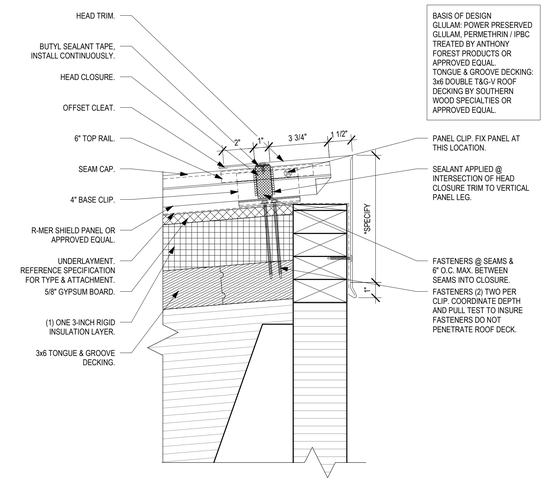
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10552 PROJECT NUMBER	SHEET NUMBER 1 A3.03
05/29/2026 RELEASE DATE	
TFB PROJECT MANAGER	KG DRAWN BY / RT CHECKED BY

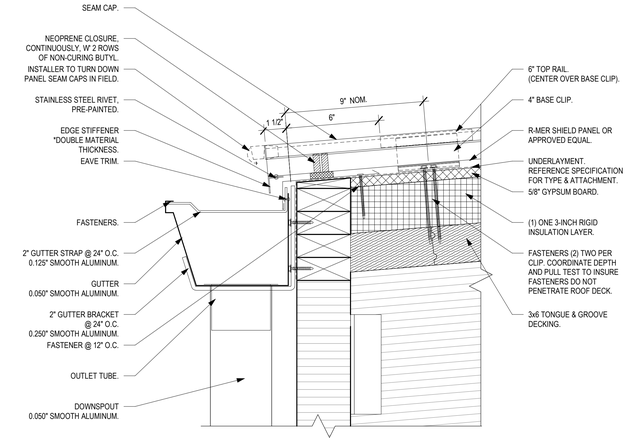
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1 RAKE DETAIL (TYP.)
SCALE: 3" = 1'-0"



2 FIXED SHED RIDGE DETAIL (TYP.)
SCALE: 3" = 1'-0"



3 EXPANDED EAVE AT BRACKETED GUTTER DETAIL (TYP.)
SCALE: 3" = 1'-0"

4 FIXED PANEL DETAIL (TYP.)
SCALE: 3" = 1'-0"

5 RAKE CLOSURE DETAIL (TYP.)
SCALE: 3" = 1'-0"

6 JAMB PAN TO PANEL DETAIL
SCALE: 3" = 1'-0"

7 LEADER DETAIL (TYP.)
SCALE: 3" = 1'-0"

8 GUTTER ASSEMBLY DETAIL
SCALE: 3" = 1'-0"

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PROPOSED IMPROVEMENTS FOR EDUCATIONAL SERVICES COMMISSION OF NEW JERSEY:

PISCATAWAY OUTDOOR PLAY AREA

1670 STELTON ROAD,
PISCATAWAY, NJ, 08854
BLOCK: 9201 LOT: 46.12

⚠ 06/15/2026 ADDENDUM #01

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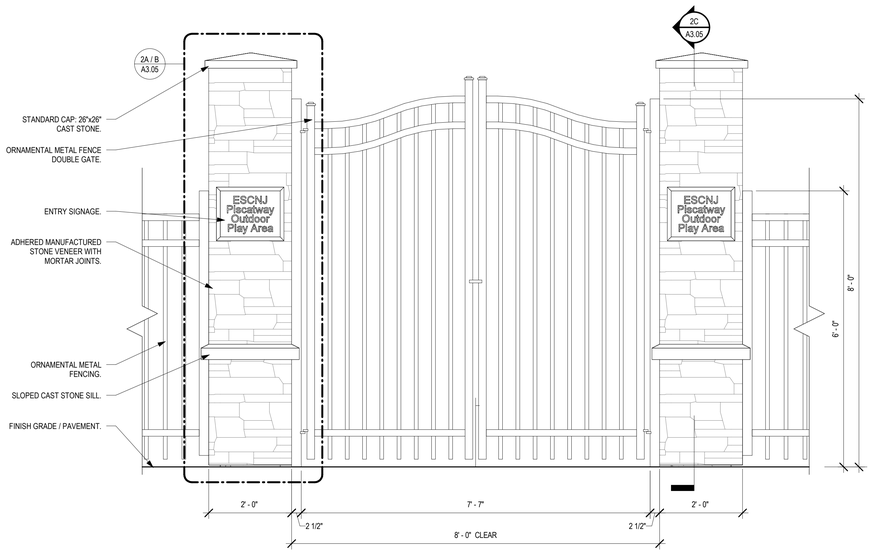
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FIELD HOUSE ROOF DETAILS II

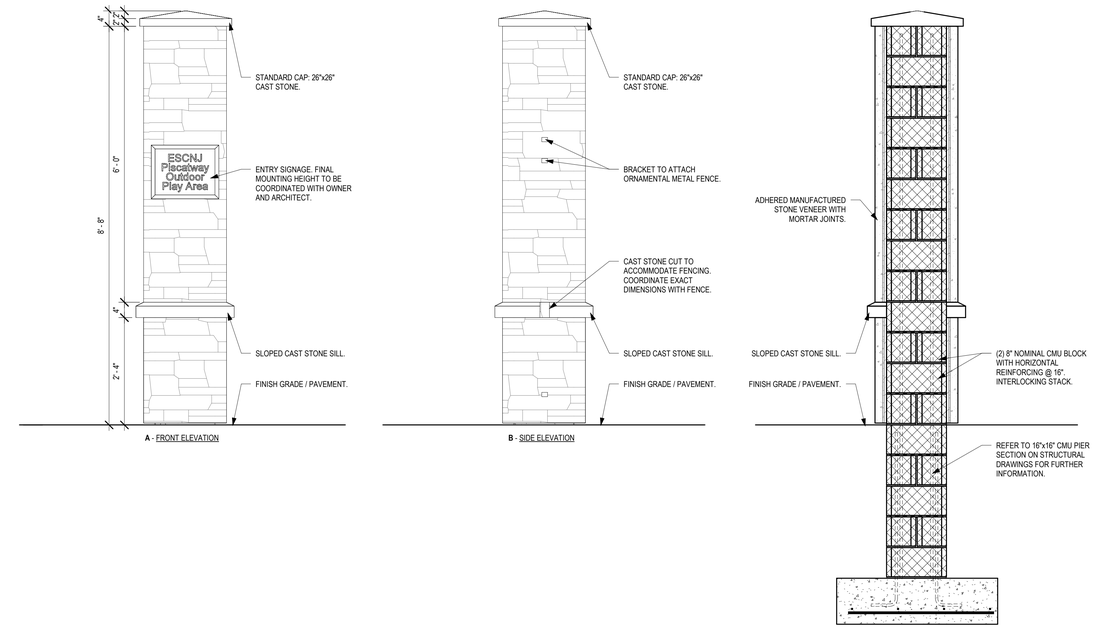
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10552	⚠ SHEET NUMBER
PROJECT NUMBER	A3.04
05/29/2026	
RELEASE DATE	
TR	KG / RT
PROJECT MANAGER	DRAWN BY / CHECKED BY

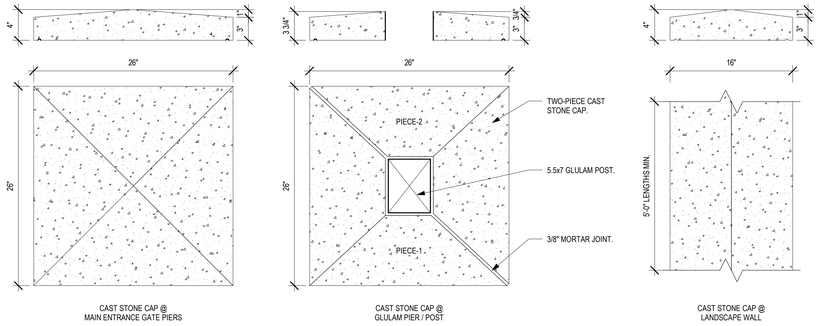
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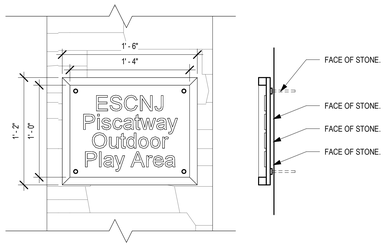


1 MAIN ENTRANCE ELEVATION
SCALE: 3/4" = 1'-0"



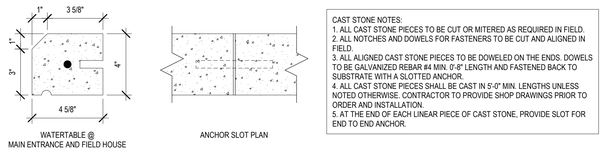
2 MAIN ENTRANCE PILLAR ELEVATIONS AND SECTION
SCALE: 3/4" = 1'-0"





NOTE:
CONTRACTOR TO VERIFY MOUNTING HEIGHT WITH CLIENT AND ARCHITECT PRIOR TO ORDER AND INSTALLATION.

3 MAIN ENTRANCE SIGNAGE ELEVATION
SCALE: 1 1/2" = 1'-0"



CAST STONE NOTES:
1. ALL CAST STONE PIECES TO BE CUT OR MITERED AS REQUIRED IN FIELD.
2. ALL NOTCHES AND DOWELS FOR FASTENERS TO BE CUT AND ALIGNED IN FIELD.
3. ALL ALIGNED CAST STONE PIECES TO BE DOWELED ON THE ENDS. DOWELS TO BE GALVANIZED REBAR #4 MIN. 0'-8" LENGTH AND FASTENED BACK TO SUBSTRATE WITH A SLOTTED ANCHOR.
4. ALL CAST STONE PIECES SHALL BE CAST IN 5'-0" MIN. LENGTHS UNLESS NOTED OTHERWISE. CONTRACTOR TO PROVIDE SHOP DRAWINGS PRIOR TO ORDER AND INSTALLATION.
5. AT THE END OF EACH LINEAR PIECE OF CAST STONE, PROVIDE SLOT FOR END TO END ANCHOR.

4 CAST STONE CAP DETAILS
SCALE: 1 1/2" = 1'-0"

5 CAST STONE DETAIL
SCALE: 3" = 1'-0"

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1670 STELTON ROAD,
PISCATAWAY, NJ, 08854
BLOCK: 9201 LOT: 46.12

REV	DATE	REMARK
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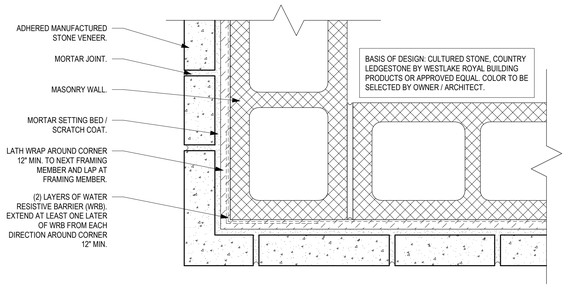
SIGNATURE

FENCE AND GATE DETAILS

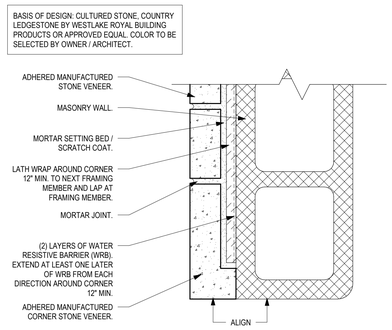
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05/29/2026 RELEASE DATE	
TFB PROJECT MANAGER	KG DRAWN BY / RT CHECKED BY

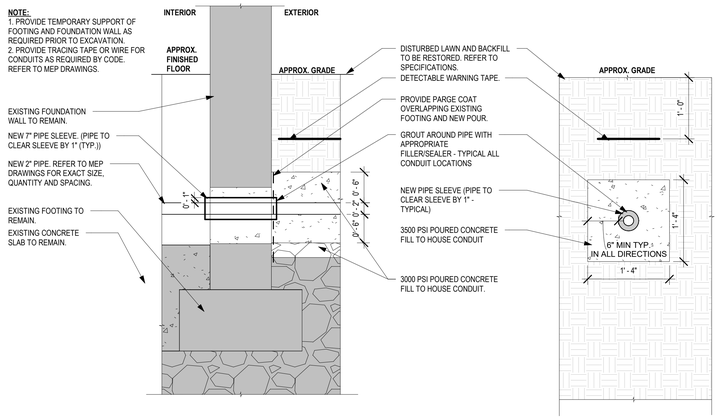
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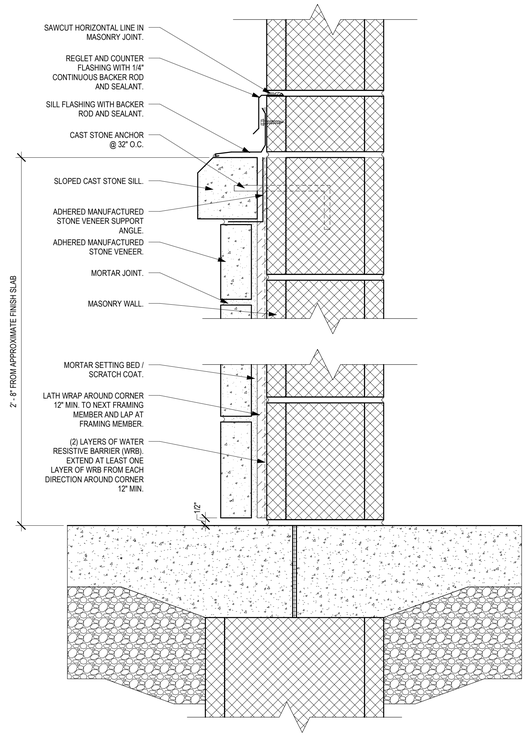
1 STACK STONE - EXTERIOR CORNER DETAIL
SCALE: 3" = 1'-0"



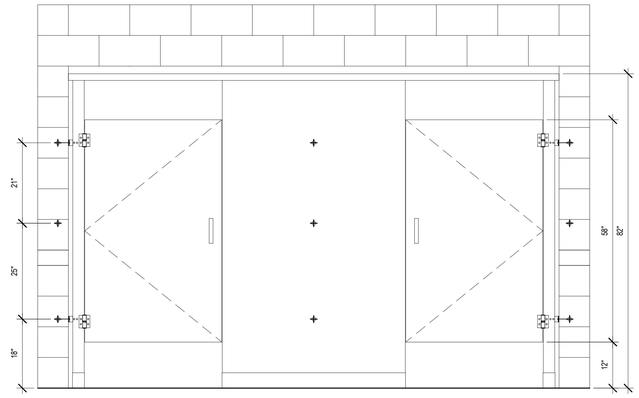
2 STACK STONE - TERMINATION DETAIL
SCALE: 3" = 1'-0"

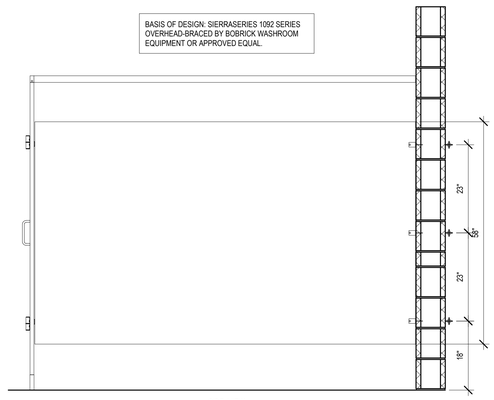


3 FOOTING PIPE PENETRATION DETAIL
SCALE: 1" = 1'-0"

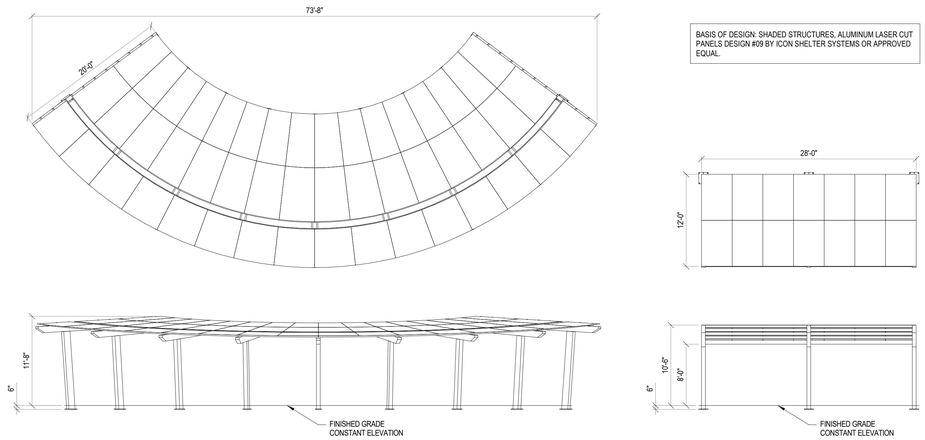


4 STACK STONE - MOUNTING DETAIL
SCALE: 3" = 1'-0"

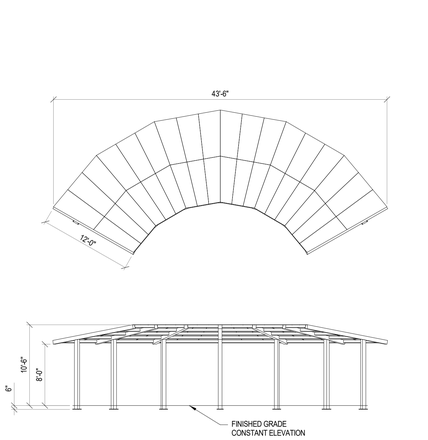




5 RESTROOM PARTITION ELEVATIONS
SCALE: 3/4" = 1'-0"

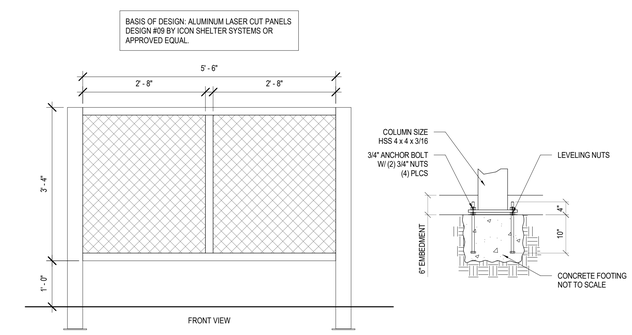


BASIS OF DESIGN: SHADED STRUCTURES, ALUMINUM LASER CUT PANELS DESIGN #09 BY ICON SHELTER SYSTEMS OR APPROVED EQUAL.



6 SHADED STRUCTURE DETAILS
SCALE: 1/8" = 1'-0"

BASIS OF DESIGN: ALUMINUM LASER CUT PANELS DESIGN #09 BY ICON SHELTER SYSTEMS OR APPROVED EQUAL.



7 PRIVACY PARTITION PANEL DETAIL
SCALE: 3/4" = 1'-0"

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⚠ 06/15/2026 ADDENDUM #01

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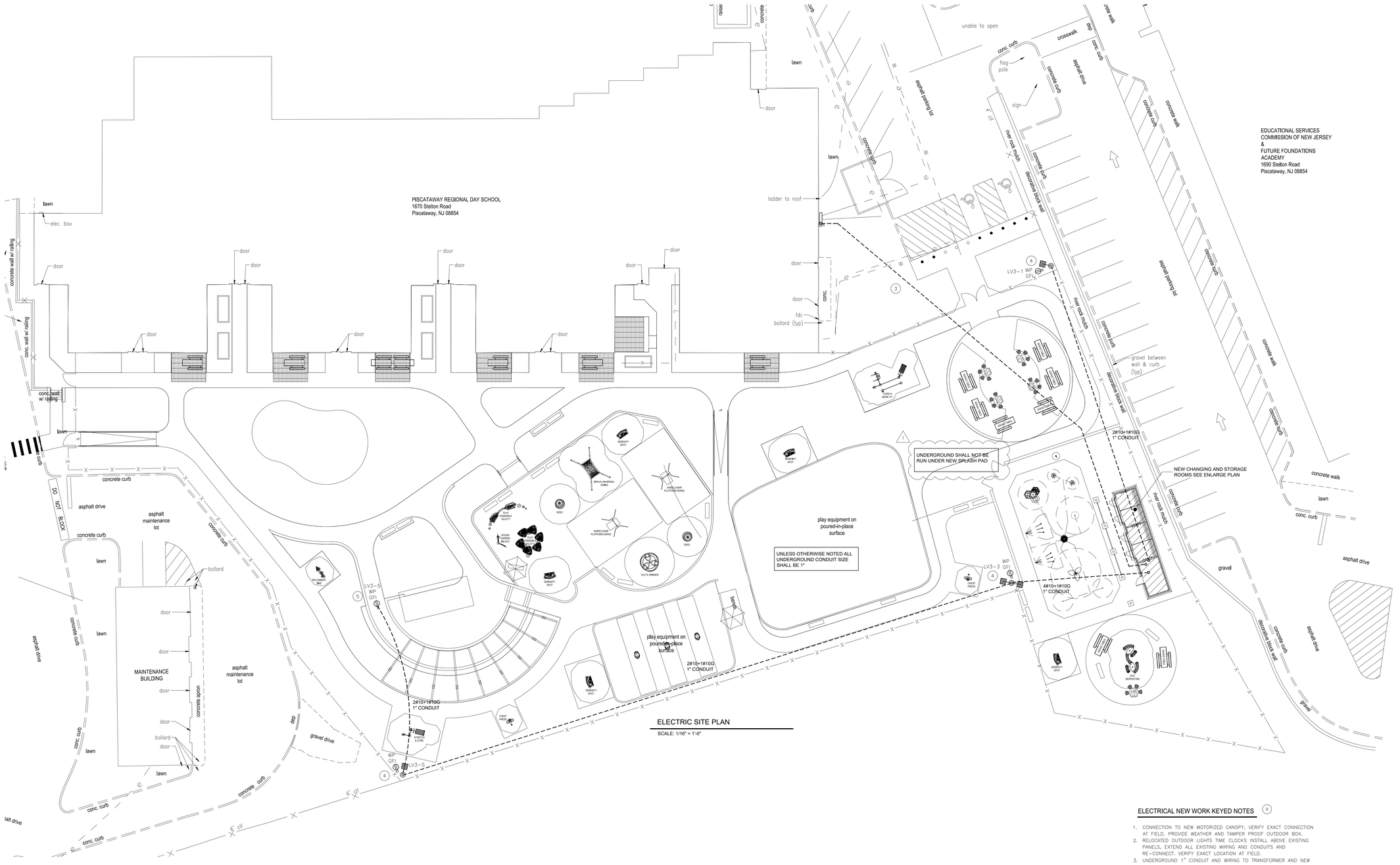
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MISCELLANEOUS DETAILS

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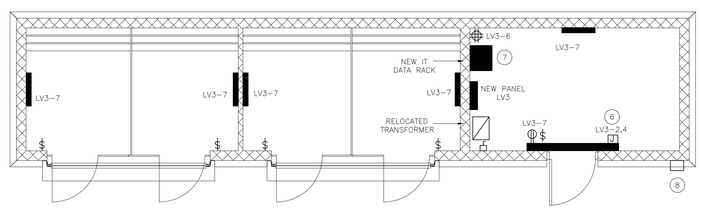
10552	⚠ SHEET NUMBER
PROJECT NUMBER	A3.06
05/29/2026	
RELEASE DATE	
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PROJECT MANAGER	DRAWN BY / CHECKED BY

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ELECTRIC SITE PLAN

SCALE: 1/16" = 1'-0"



CHANGING ROOM AND STORAGE ROOM ENLARGE PLAN

SCALE: 1/4" = 1'-0"

ELECTRICAL NEW WORK KEYED NOTES (X)

1. CONNECTION TO NEW MOTORIZED CANOPY, VERIFY EXACT CONNECTION AT FIELD. PROVIDE WEATHER AND TAMPER PROOF OUTDOOR BOX.
2. RELOCATED OUTDOOR LIGHTS TIME CLOCKS INSTALL ABOVE EXISTING PANELS, EXTEND ALL EXISTING WIRING AND CONDUITS AND RE-CONNECT. VERIFY EXACT LOCATION AT FIELD.
3. UNDERGROUND 1" CONDUIT AND WIRING TO TRANSFORMER AND NEW PANEL LV3 SEE PARTIAL RISER DIAGRAM.
4. NEW LIGHTING POLE WITH RECEPTACLE AND SECURITY CAMERA. CAMERA BY OWNER, TWO CAT 6A CABLE AND CONDUIT BY CONTRACTOR. REFER TO CIVIL PLANS FOR LIGHTING POLE SPECIFICATION.
5. GENERAL USE OUTLET FIELD VERIFY EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION.
6. FURNISH AND INSTALL ABOVE DOOR 6' ELECTRIC BASEBOARD QMARK MODEL 208V 1500W WITH BUILT IN THERMOSTAT OR APPROVED EQUAL.
7. NEW IT RACK.
   - 7.1. FURNISH AND INSTALL NEW 12U IT RACK TRIPPLITE MODEL SRW12US.
   - 7.2. SECURE RACK TO WALL AS PER MANUFACTURE REQUIREMENTS AND SPECIFICATIONS.
   - 7.3. RUN 2 CAT 6A FROM NEW RACK TO IDF DATA RACK #1 IN AND CONNECT TO EXISTING SWITCH.
   - 7.4. TERMINATE ALL WIRES IN NEW PATCH PANEL. PATCH PANEL FURNISH AND INSTALL BY CONTRACTOR;
8. 4" BOX FOR SECURITY CAMERA RUN 2 CAT 6A TO IT RACK WITH 1" CONDUIT SLEEVE.

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BLOCK: 9201 LOT: 46.12

CONSULTANT
Eden Engineering
14 Quaker Drive
East Brunswick, NJ 08816
732-568-4866 (O)
Certificate of Authorization: 24GA28156200
Yoram Ozer, P.E.
NJ License #24GE04672100

1 06/15/26 ADDENDUM #01
- 05/29/26 ISSUED FOR BIDDING

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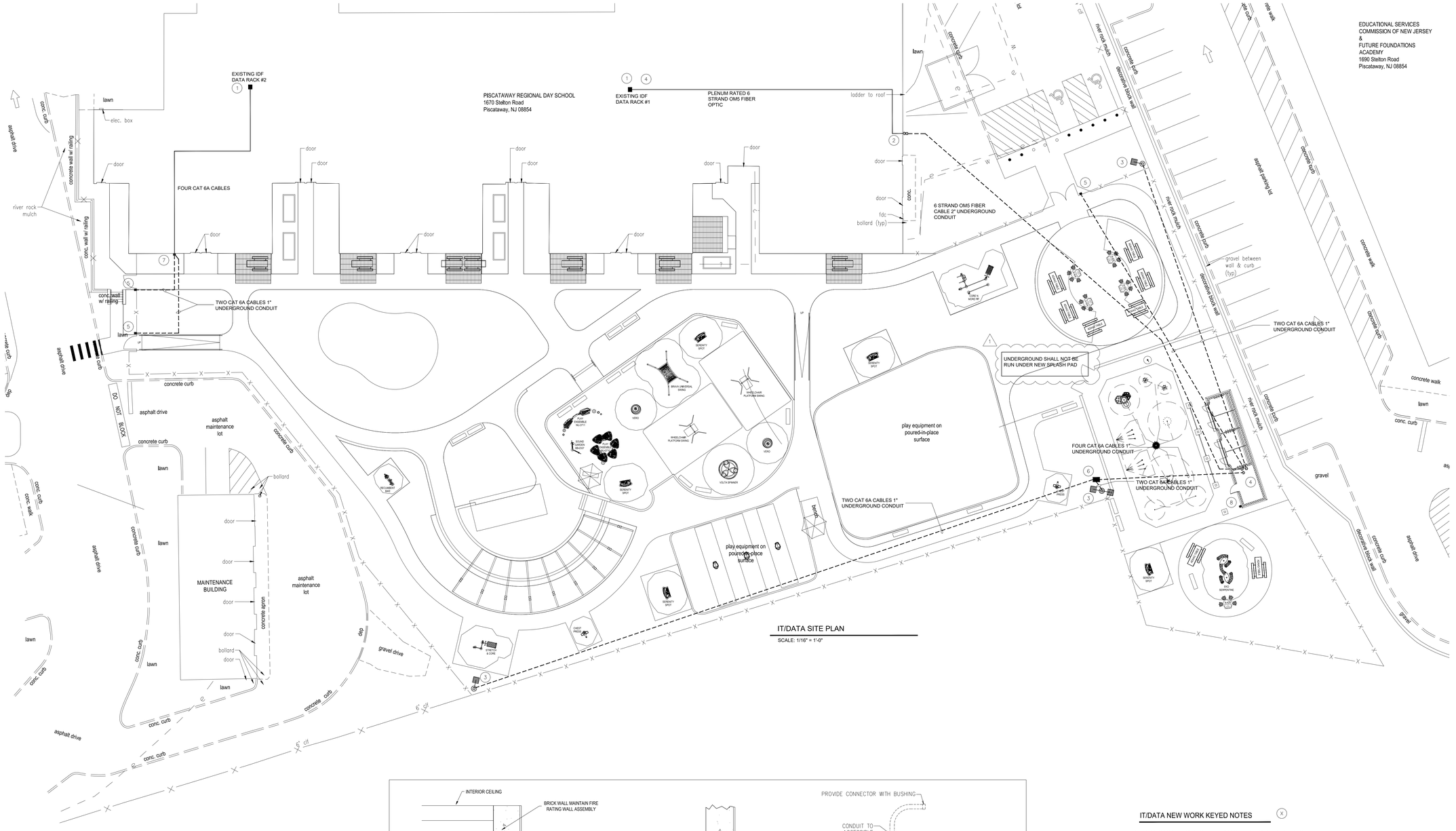
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ELECTRICAL NEW WORK SITE PLAN

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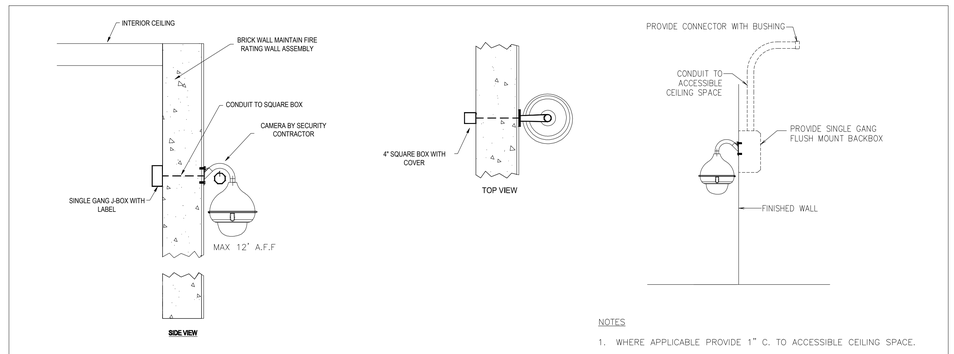
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05/29/2026 RELEASE DATE	
BLJ PROJECT MANAGER:	XXXX DRAWN BY: / XXXX CHECKED BY:

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IT/DATA SITE PLAN

SCALE: 1/16" = 1'-0"



EXTERIOR CAMERA CONDUIT DETAIL

IT/DATA NEW WORK KEYED NOTES (X)

1. APPROXIMATE LOCATION OF EXISTING IDF DATA RACK #1/2.
2. RUN 2" CONDUIT THROUGH WALL AND DOWN TO WALL MOUNTED 12X12 WEATHER PROOF PULL BOX. RUN 2" CONDUIT FROM PULL BOX TO NEW IT RACK IN STORAGE ROOM.
3. NEW LIGHTING POLE TO HAVE SECURITY CAMERA INSTALLED BY OWNER, RUN CONDUIT AND WIRES UNDERGROUND AND UP TO TOP OF POLE AND LEAVE SUFFICIENT CABLE LENGTH OF MINIMUM 10'.
4. TERMINATED FIBER OPTIC WITH A CCH WITH LC STANDARD PATCH PANEL. A 15' SERVICE LOOP SHALL BE LEFT PROPERLY SUPPORTED ABOVE THE RACK MOUNTED INTERCONNECT HOUSING.
5. NEW GATE WITH CARD ACCESS RUN CONDUIT AND WIRES UNDERGROUND AND LEAVE SUFFICIENT CABLE LENGTH OF MINIMUM 10'.
6. NEW 12X12X10 HAND HELD BOX.
   - 6.1. RUN WIRES AND CONDUIT THROUGH BOX TO NEAREST POLE MOUNTED CAMERA. DO NOT SPLICE WIRES.
   - 6.2. INSTALL OUTDOOR RATED POE/DATA EXTENDER TRIPP LITE MODEL NPOE-EXT-1G30WP OR APPROVED EQUAL.
   - 6.3. RUN NEW WIRING AND CONDUIT TO THE SECOND POLE MOUNTED CAMERA.
7. RUN 1" CONDUIT THROUGH WALL AND DOWN TO WALL MOUNTED 8X8 WEATHER PROOF PULL BOX. RUN 1" CONDUIT FROM PULL BOX TO NEW CARD ACCESS BOX.

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PROPOSED IMPROVEMENTS FOR EDUCATIONAL SERVICES COMMISSION OF NEW JERSEY:

PISCATAWAY OUTDOOR PLAY AREA

1670 STELTON ROAD,
PISCATAWAY, NJ, 08854
BLOCK: 9201 LOT: 46.12

CONSULTANT

Eden Engineering
14 Quaker Drive
East Brunswick, NJ 08816
732-568-4866 (O)
Certificate of Authorization: 24GA28156200
Yoram Ozer, P.E.
NJ License #24GE04672100

REV	DATE	REMARK
1	06/15/26	ADDENDUM #01
-	05/29/26	ISSUED FOR BIDDING

- Gregory J. Somjen A.I.A., CID
  - Connecticut Architect 8622
  - Delaware Architect 6116
  - Massachusetts Architect 9629
  - NCARB Registration 47178
  - New Jersey Architect 13349
  - New York Architect 32435
  - North Carolina Architect 16879
- William H. Bannister, A.I.A. LEEDap
  - Connecticut Architect 14499
  - NCARB Registration 96145
  - New Jersey Architect 19142
  - New York Architect 47812
  - North Carolina Architect 15027
  - Pennsylvania Architect RA409555
  - South Carolina Architect 10382
- Richard J. Trautwein, A.I.A.
  - New Jersey Architect 12199

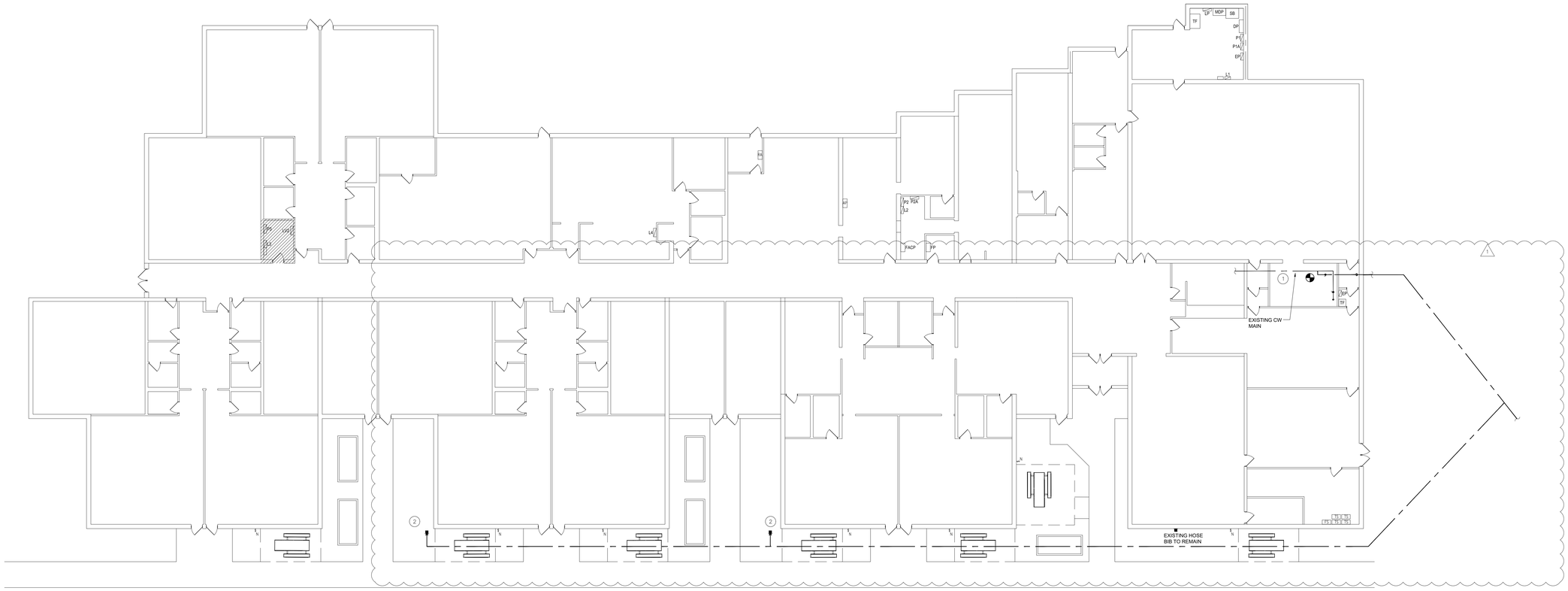
SIGNATURE

IT DATA NEW WORK SITE PLAN

THE SCALE REPRESENTED ON THESE DRAWINGS IS ONLY VALID IF THE DRAWING IS 42" x 30". DRAWINGS WHICH ARE NOT PLOTTED AT THE SPECIFIED SHEET SIZE ARE NOT TO SCALE.

10552 PROJECT NUMBER	SHEET NUMBER E-103
05/29/2026 RELEASE DATE	
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PLUMBING NEW WORK FLOOR PLAN

SCALE: 3/32" = 1'-0"

PLUMBING KEYED NOTES (X)

1. EXISTING 3" CW MAIN.
   1.1. CONNECT NEW 2" CW MAIN TO EXISTING.
   1.2. RUN NEW INSULATED PIPING AT CEILING AS INDICATED.
   1.3. CAREFULLY DIG EXISTING FLOOR TO BELOW FROST LINE.
   1.4. DROP CW MAIN DOWN AT WALL AND OUTSIDE BELOW FROST LEVEL.
   1.5. RUN "UNDERGROUND" CW MAIN TO STORAGE ROOM "SEE SITE PLAN"
2. NEW FREEZE PROOF OUTDOOR FAUCET.
   2.1. APPROXIMATE LOCATION FIELD VERIFY EXACT LOCATION WITH OWNER AND ARCHITECT.
   2.2. CONNECT NEW CW PIPING TO NEW MAIN.
   2.3. COORDINATE EXACT PIPING PATH WITH ARCHITECT PRIOR TO INSTALLATION.
   2.4. INSTALL FROST FREE DRAIN VALVE BELOW FROST LINE.
   2.5. PROTECT THE UNDERGROUND DRAIN HOLE WITH COVER AND BUCKET OF SMALL STONES.

1

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SIGNATURE

PLUMBING FLOOR PLAN

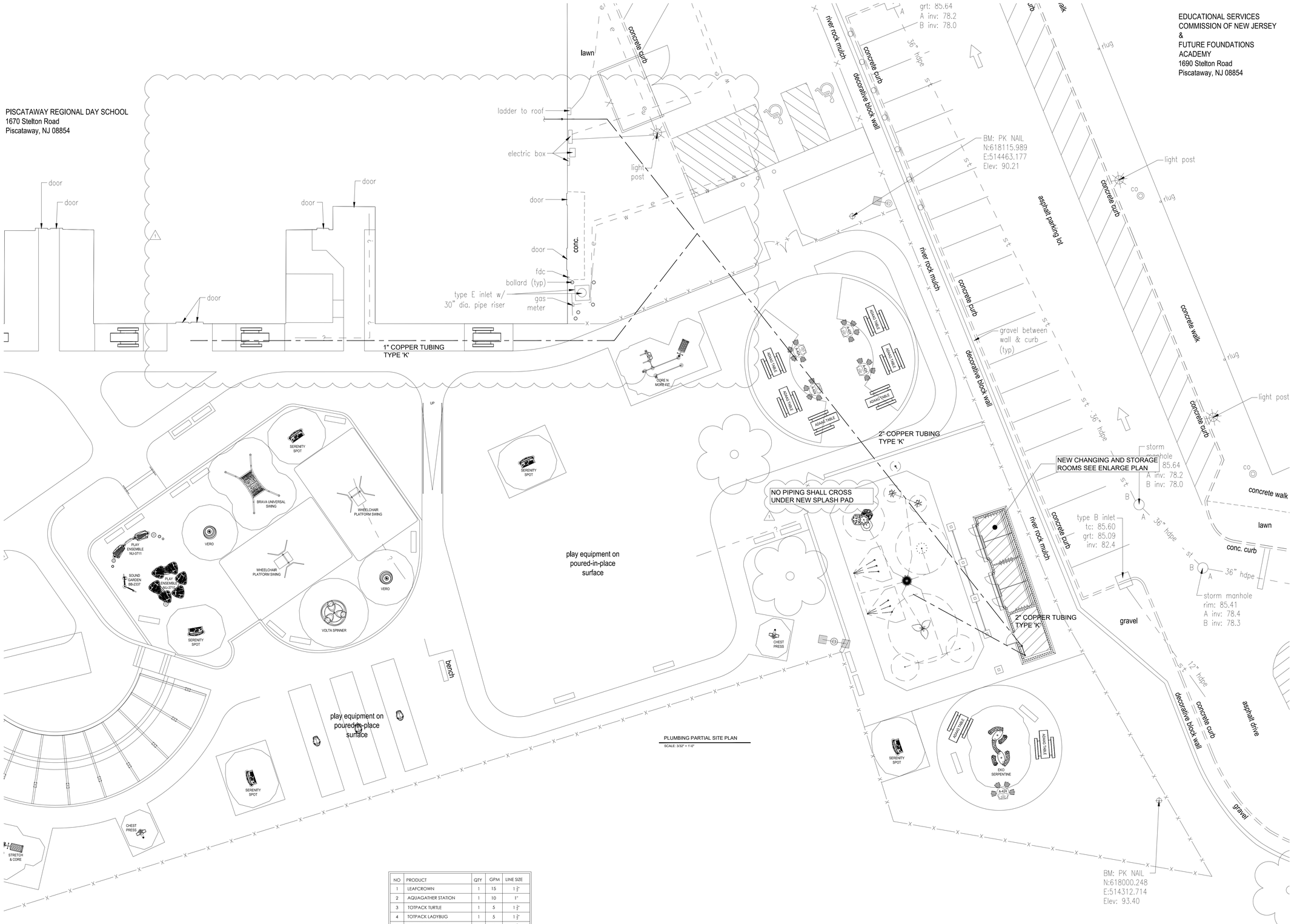
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PISCATAWAY REGIONAL DAY SCHOOL
1670 Stelton Road
Piscataway, NJ 08854

EDUCATIONAL SERVICES
COMMISSION OF NEW JERSEY
&
FUTURE FOUNDATIONS
ACADEMY
1690 Stelton Road
Piscataway, NJ 08854



PLUMBING PARTIAL SITE PLAN
SCALE: 3/32" = 1'-0"

NO	PRODUCT	QTY	GPM	LINE SIZE
1	LEAFCROWN	1	15	1 ½"
2	AQUAGATHER STATION	1	10	1"
3	TOTPACK TURTLE	1	5	1 ½"
4	TOTPACK LADYBUG	1	5	1 ½"
5	CENTER PILLAR RING	1	13	1 ½"
6	STREAM JET	2	1 EA.	1" EA.
7	TRIPLE ARCH JET	2	3 EA.	1" EA.
8	HYDROLOGIX®	1	N/A	N/A
9	SPLASH PAD USER SIGN	1	N/A	N/A

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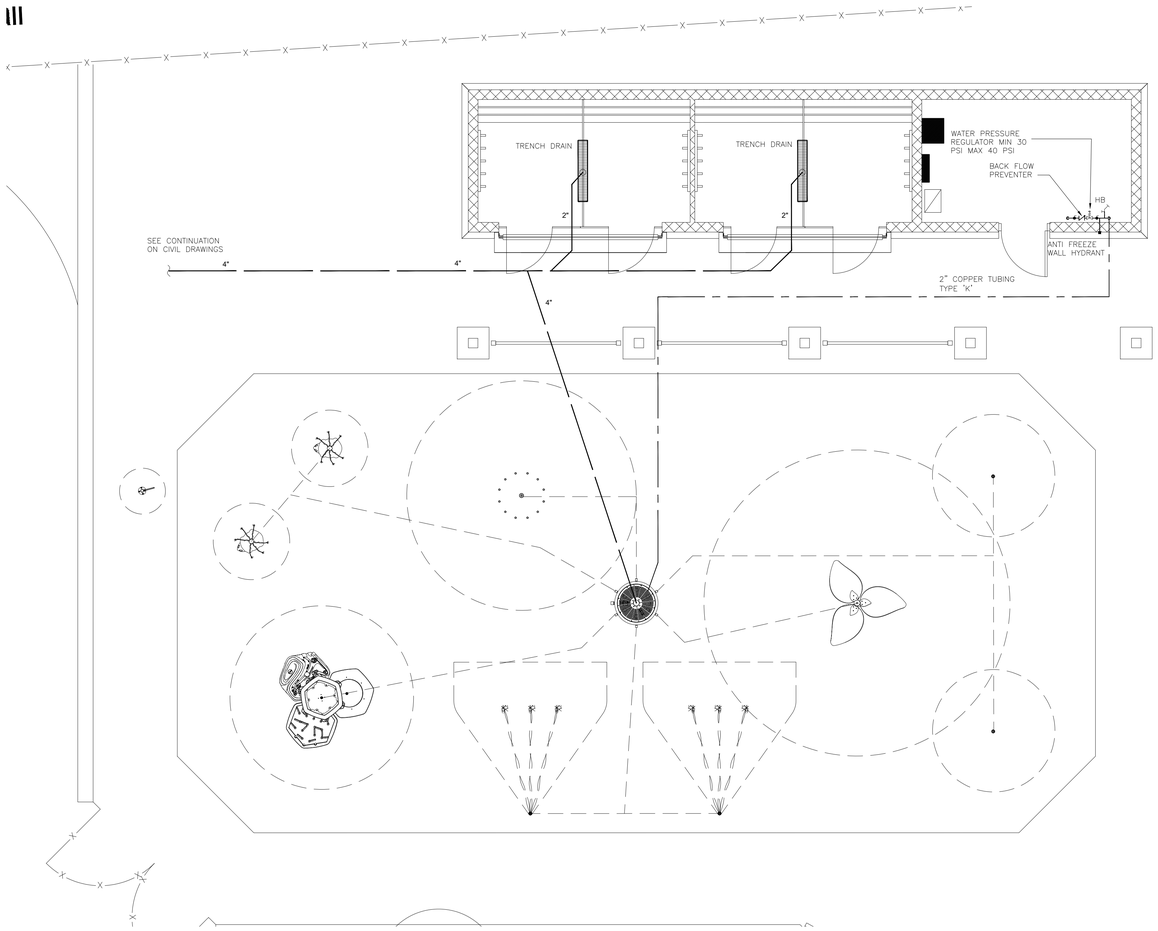
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PLUMBING SITE PLAN

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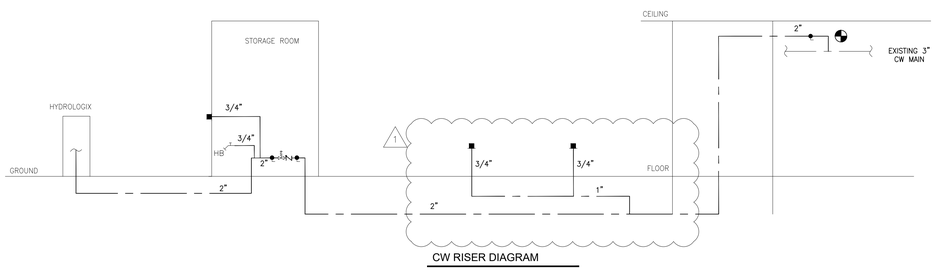
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PLUMBING PARTIAL ENLARGE PLAN

SCALE: 1/4" = 1'-0"



CW RISER DIAGRAM

NO	PRODUCT	QTY	GPM	LINE SIZE
1	LEAFCROWN	1	15	1 1/2"
2	AQUAGATHER STATION	1	10	1"
3	TOTPACK TURTLE	1	5	1 1/2"
4	TOTPACK LADYBUG	1	5	1 1/2"
5	CENTER PILLAR RING	1	13	1 1/2"
6	STREAM JET	2	1 EA.	1" EA.
7	TRIPLE ARCH JET	2	3 EA.	1" EA.
8	HYDROLOGIX®	1	N/A	N/A
9	SPLASH PAD USER SIGN	1	N/A	N/A

TRENCH DRAIN SCHEDULE

FIXTURE	FIXTURE DESCRIPTION	MANUFACTURE	MODEL #	DIMENSIONS WxLxD (IN)	CONNECTION SIZE	REMARK
TRENCH DRAIN	48" STAINLESS STEEL DRAIN	ZURN	ZS880-48	4-15/32 x 50 x2-3/4	2"	STAINLESS STEEL, LINEAR SHOWER DRAIN

PSA Beyond Architecture

Parette Somjen Architects

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