



July 8, 2025

**CN-296 NJSEA FIREHOUSE GARAGE
ADDITIONS AND RENOVATION**

East Rutherford, New Jersey

Proposal Due Date: July 17, 2025 by 12 PM

ADDENDUM No. 1

The Addendum is used for the purpose of amending the subject Bid Documents as below and is hereby made part of said Bid Documents to the same extent as though it were originally included therein. This Addendum makes the following changes and clarifications to the bid documents.

A. BID DOCUMENTS

I. Project Manual Book 1 of 3 – Modifications to the Project Manual

1. TABLE OF CONTENTS

Delete: Table of Contents – Issued on June 18, 2025.

Add: Table of Contents – Issued with this July 8, 2025 Addendum No. 1.

2. SECTION 00100.7.0 – SELF-PERFORMANCE REQUIREMENTS

Delete: “the Bid Envelope No. 2 form”

Add: “7.2 See also Instructions to Bidders Article 26.4 for Proposed Subcontractor Approval Form.”

3. SECTION 00100.26.0 – SUBCONTRACTORS

Add: “26.4 Upon Notice by NJSEA, during evaluation of bids, and/or during contract formation, and/or during performance of the contract, the bidders and/or successful bidder shall complete the proposed Subcontractor Approval Form for review by NJSEA.”

NJSEA Comment: The Proposed Subcontractor Approval Form is included under the “Addendum Document Summary” section of this Addendum for reference only. It does not need to be submitted with the required forms. This is provided solely for reference, based on the section and article mentioned above.

4. SECTION 00300 – BID SUBMISSION CHECKLIST

Delete: Bid Submission Checklist – Issued on June 18, 2025.

Add: Bid Submission Checklist – Issued with this July 8, 2025 Addendum No. 1.

5. SECTION 00400 – SAMPLE BID FORMS

Delete: Subcontractor Use Form – Issued on June 18, 2025.

Add: Self-Performance and Subcontracting Plan Form - Issued with this July 8, 2025 Addendum No. 1.

II. Project Manual Book 2 of 3 – Modifications to the Project Manual

1. No Modifications.

III. Project Manual Book 3 of 3 – Modifications to the Project Manual

1. Division 8 – Doors and Frames

Add: 080671 – Door_Hardware_Schedule

Add: 087100 – Door Hardware Specifications

IV. Modifications to Drawings prepared by DMR Architects and French & Parrello Associates

1. Electrical Drawings

Delete:

E3.0 Power Plan – Issued on June 18, 2025.

E5.0 Panel Schedules & Details – Issued on June 18, 2025

Add:

E1.1 Energy Compliance Sheet - Issued with this July 8, 2025 Addendum No. 1.

E3.0 Power Plan - Issued with this July 8, 2025 Addendum No. 1.

E5.0 Panel Schedules & Details - Issued with this July 8, 2025 Addendum No. 1.

2. Fire Protection Drawings

Delete:

FP1.0 Legend, Abbreviations & General Notes – Issued on June 18, 2025.

Add:

FP1.0 Legend, Abbreviations & General Notes – Issued with this July 8, 2025 Addendum No. 1.

B. BIDDER QUESTIONS AND RESPONSES:

1. **QUESTION:** Both the specs/drawings reference a geotechnical report named, “REPORT OF SUBSURFACE EXPLORATION & GEOTECHNICAL ENGINEERING ASSESSMENT BY FPA DATED MAY 16, 2025”. Please provide a copy of this geotechnical report and any associated plans prepared by FPA.

RESPONSE: Refer to the “Addendum Document Summary” section, which is included as part of this Addendum.

2. **QUESTION:** Specifications call out Section 087100 “Door Hardware” but it not found in Book 3. Hardware schedule is also not found in drawings. Please provide the hardware specifications for this job.

RESPONSE: Refer to the “Addendum Document Summary” section, which is included as part of this Addendum.

3. **QUESTION:** Please provide the exact specifications required in Section 083600 – Sectional Overhead Doors. What is currently being specified would not match the existing door. The Raynor TM200 (attached) matches the existing door. Would it serve as an approved equal?

RESPONSE: The door specified in Section 083600 is the basis of design for all bidders. It was selected due to its availability in New Jersey, its thermal performance, our positive experience specifying their products, and the compatibility of its low-profile track system with the project design.

While the successful bidder may submit a different manufacturer’s door for review, it must perform equal to or better than the basis of design to be considered an approved equal. Please note that we do not evaluate substitution requests during the bidding process, as it would be impractical to review numerous alternative products from different bidders prior to contract award.

4. **QUESTION:** Please confirm door #X100 is a 2” FRP Door and not a 2” Aluminum Thermal door.

RESPONSE: Door X100 is a 2" FRP door. See spec section 082550.

5. **QUESTION:** Specs Section 077200, Roof Accessories, paragraph 2.6, references roof hatches, however, none are indicated on the drawings. Please confirm whether any roof hatches are required for this project.

RESPONSE: No Roof Hatches required.

6. **QUESTION:** Specs Section 077200, Roof Accessories, paragraph 2.9, references metal roof walkways, however, none are indicated on the drawings. Please confirm whether any roof walkways are required for this project.

RESPONSE: No Roof Walkways required.

7. **QUESTION:** Is a Maintenance Bond required for this project? If so, please provide the percentage and coverage period.

RESPONSE: A Maintenance Bond will not be required for this project.

C. ADDENDUM DOCUMENT SUMMARY

1. Project Manual Book 1, Table of Contents – 2 pages.
2. Project Manual Book 1, Section 00100 – Instructions to Bidders – 32 pages.
3. Project Manual Book 1, Section 00300 – Bid Submission Checklist – 1 page.
4. Project Manual Book 1, Section 00400 – Self-Performance and Subcontracting Plan – 4 pages.
5. Proposed Subcontractor Approval Form “For reference purpose only.”
6. Addendum No. 1_Electrical Drawings
 - Drawing Sheet E1.1 – 1 page
 - Drawing Sheet E3.0 – 1 page
 - Drawing Sheet E5.0 – 1 page
7. Addendum No. 1_Fire Protection Drawing
 - Drawing Sheet FP1.0 – 1page
8. Addendum No. 1, Question #1 Response - Report of Subsurface Exploration & Geotechnical Engineering Assessment, dated 5.16.2025 – 15 pages.
9. Addendum No. 1, Question #2 Response - Project Manual Book 3, Division 8 – 080671 – Door_Hardware_Schedule – 6 pages.
10. Addendum No. 1, Question #2 Response - Project Manual Book 3, Division 8 – 087100 – Door Hardware – 14 pages.
11. NJSEA Pre-Bid Walk Sign-in Sheet – 1 page.

END OF ADDENDUM NO. 1

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SECTION 00100 – INSTRUCTIONS TO BIDDERS

SECTION 00100

INSTRUCTIONS TO BIDDERS

1.0 DEFINED TERMS:

- 1.1 The terms used in these Instructions to Bidders have the meanings assigned to them in the General Conditions. The term "Successful Bidder" means the lowest, qualified, responsible Bidder to whom the New Jersey Sports & Exposition Authority (NJSEA) makes the award, based on the NJSEA's evaluation of all bids received.
- 1.2 Bidding Documents include the Bidding Requirements and the Contract Documents. The Bidding Requirements consist of the Advertisement or Request for Bids (RFB), Instructions to Bidders, the Bid Forms, and other Sample Forms. The Contract Documents consist of the Form of Contract between the New Jersey Sports and Exposition Authority (NJSEA) and the successful Bidder, Instructions to Bidders, Project Labor Agreement (PLA), General Requirements, Drawings, Specifications, Project Manual and all Addenda issued prior to the Bid due date.
- 1.3 Definitions set forth in the Form of Contract, General Requirements, or in other Contract Documents are applicable to the Bidding Documents.
- 1.4 Addenda are written or graphic instruments issued by NJSEA prior to the Bid due date which modify or interpret the Bidding Documents by additions, deletions, clarifications, or corrections.
- 1.5 Work is as defined in the General Requirements.
- 1.6 A Bid is a complete and properly executed proposal to do the Work for the sums stipulated therein, submitted in accordance with the Bidding Documents.
- 1.7 The Base Bid is the sum stated in the Bid for which the Bidder offers to perform the Work described in the Bidding Documents as the base, to which Work may be added or from which Work may be deleted for sums stated in Alternate Bids.
- 1.8 An Alternate Bid (or Alternate), if utilized within the Price Proposal, is an amount stated in the Bid to be added or deducted from the amount of the Base Bid if the corresponding change in the Work, as described in the Bidding Documents, is accepted. Alternates, if utilized, are identified within Project Manual, drawings, specifications and other documents.
- 1.9 A Bidder is a person or entity who submits a Bid and who meets the requirements set forth in the Bidding Documents.

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2.0 COPIES OF CONTRACT DOCUMENTS:

- 2.1 Complete sets of the Contract Documents may be obtained as designated in the ADVERTISEMENT FOR BIDS. These Documents shall be used in preparing the bids. The NJSEA assumes no responsibility for errors or misinterpretations resulting from the use of incomplete sets of Contract Documents.

3.0 EXAMINATION OF CONTRACT DOCUMENTS AND WORK SITE:

- 3.1 Before submitting a Bid, each Bidder must: (A) examine the Contract Documents thoroughly; (B) visit the site to familiarize himself with local conditions that may in any manner affect cost, progress, or performance of the work; (C) familiarize himself with Federal, State, and local laws, ordinances, rules, and regulations that may in any manner affect cost, progress, or performance of the work; and, (D) study and carefully correlate his own observations with the Contract Documents.
- 3.2 On request, the NJSEA will provide each Bidder access to the site to conduct such investigations and tests, as each Bidder deems necessary for submission of a Bid. At least three days' notice shall be provided. The Bidder may be required to furnish a bond or certified check, payable to the NJSEA, as security to cover possible damages from the above investigations or tests. The Bidder shall fill-in all holes, cleanup, and restore the site to its former state, upon completion of such investigations. The security shall be returned to the Bidder after the site is restored, to the satisfaction of the NJSEA.
- 3.3 The lands upon which the work shall be performed, rights-of-way for access thereto, and other lands designated for use by the Contractor in performing the work, are identified in the Contract Documents.
- 3.4 The submission of a Bid will constitute an incontrovertible representation by the Bidder that it has complied with every requirement of this Article and that the Contract Documents are sufficient in scope and detail to indicate and convey understanding of all terms and conditions for performance of the work.
- 3.5 It is further agreed and understood that the successful Bidder will not use any of the information made available to it, or obtained in any examination made by it, as a basis or ground of a claim or demand of any nature against the NJSEA, arising from (or by reason of) any variance which may exist between the information offered and the actual materials or structures encountered during the construction work, except as may otherwise be so provided in the Contract Documents.

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4.0 INTERPRETATION AND ADDENDA:

- 4.1 Should a Bidder find discrepancies or omissions in any of the Contract Documents, or should it be in doubt as to their meaning, it shall immediately notify the NJSEA in writing, identify the discrepancies or omissions, and request a clarification of the Document's intent. In order to allow the NJSEA sufficient time to address inquiries regarding the Contract Documents, all inquiries must be RECEIVED by the NJSEA no later than seven (7) working days prior to the receipt of bids.

Send written questions to NJSEA at:

njseabids@njsea.com

Do not send any written Bid questions and/or perform communications of any nature, including, without limitation, telephone communications, concerning this procurement and Project to any other NJSEA personnel or NJSEA email address.

Separately, Bidders shall not contact any NJSEA Consultants concerning this procurement.

- 4.2 If the question involves equality of use of products or methods it must be accompanied by drawings specifications or other data in sufficient detail to enable the Engineer to determine the equality or suitability of the product or method. In general, the Engineer will neither approve nor disapprove particular products prior to opening of the bids such products will be considered when offered by the Contractor for incorporation into the work.
- 4.3 If the Bidder, prior to submission of its Bid, fails to call to the attention of the Engineer the existence of any such patent ambiguity, inconsistency, error, discrepancy, omission or doubt in the Contract Documents, its Bid will be conclusively presumed to have been based upon an interpretation of such ambiguity or inconsistency or the like, or upon any directions correcting such error, which may have been subsequently given by the Director.
- 4.4 Unless such action shall have been taken by the bidder and approval obtained, he agrees to use the product or method designated or described in the specifications as may be amended by addenda.

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- 4.5 No interpretation of the Contract Documents will be made orally. All interpretation and supplemental instructions will be in the form of written addenda to the Contract Documents. The NJSEA reserves the sole right to determine whether or not an extension of the bid date is necessary due to the nature of the inquiries. If necessary, an interpretation or correction will be uploaded to the NJSEA Bid document website by NJSEA as an addendum to the NJSEA website:

www.NJSEA.com

**Bidders are required to check the website frequently to
ensure receiving all Addenda prior to the Bid Submission date.**

Bidders shall use complete sets of Bidding Documents in preparing Bids; NJSEA assumes no responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents. Only the interpretation or correction of the Bidding Documents, by Addendum, issued by NJSEA shall be binding. Prospective Bidders are advised that no other source is authorized to give information concerning or to explain or interpret the Bidding Documents.

- 4.6 Receipt of addenda must be acknowledged in the space provided for that purpose on the Bid Forms. Should a Bidder not acknowledge receipt of all addenda, it shall still be required to comply with said addenda.
- 4.7 All addenda shall become part of the Contract Documents and shall supersede the original Contract Documents. Subsequent addenda shall supersede previously issued addenda.

5.0 SCOPE OF WORK

- 5.1 The Work must be completed in accordance with the Bidding Documents and drawings and specifications prepared DMR Architects and French & Parello Associates. The Work for this Contract is also specified within the Contract, Instructions to Bidders, General Requirements, Project Manual books and all other Contract Documents.

6.0 PROJECT LABOR AGREEMENT

- 6.1 A Project Labor Agreement (PLA) is required for this Contract. The PLA is binding on the successful Bidder, all Sub-bidders and future Subcontractors of all subcontracting tiers. The successful Bidder and all Sub-Bidders and future Subcontractors, of all subcontracting tiers, will be required to execute a Letter of Assent for the PLA and return same with the Contract at the Contract formation stage. Copies of the PLA and Letter of Assent are included in Book 2 of 3 with the Contract Documents.

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7.0 SELF-PERFORMANCE REQUIREMENTS

7.1 The Bidder is required to self-perform at least 10% of the Work. Self-performed work does not include supervision and/or management. Self-performed work is defined as tradespersons pursuant to New Jersey Prevailing Wage laws that are or who will be employees of the Bidder, who will be working at the NJSEA project site. Self-performance requirements are not optional, nor to be considered a Contractor's means and methods and are a material part of this Contract. Self-performance requirements may not be demonstrated through material supply, project cost or subcontracted work analyses; the successful Bidder must affirmatively demonstrate intended self-performance at the time of Bid through ~~the Bid Envelope No. 2 form~~ "Self-Performance and Subcontracting Plan." (To be issued by Addendum.)

7.2 See also Instructions to Bidders – Article 26.4 for "Proposed Subcontractor Approval Form."

8.0 BASE BID & BID ALTERNATES

8.1 The Base Bid is specified as all work specified within the Project Manual, drawings, and specifications except for the Work described within any Bid Alternate(s).

8.2 The Following Bid Alternate(s) is (are) required to be included in the Contractor's Price Proposal:

Bid Alternate No. 1 – Alternate Time for Completion

9.0 BID IRREVOCABLE

9.1 Unless otherwise provided in the Instructions to Bidders, bid prices are irrevocable for 60 days following Bid opening.

10.0 TIME FOR COMPLETION

10.1 Work shall be commenced upon receipt of written Notice-to-Proceed.

10.2 The successful Bidder Contractor shall perform all Extra Work, if any, ordered in accordance with the provisions of this Contract as expeditiously as possible.

10.3 The successful Bidder's attention is directed to the fact that it may be necessary to pay overtime and/or shift differential wages and/or employ a larger work force than normal and/or retain more than one subcontractor for the same work scope and/or pay for expedited material and equipment fabrication in order to complete

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the simultaneous performance of the Work and the Contract within the times provided for both the Base Bid and Bid Alternate(s) is utilized. In such event, the successful Bidder shall not be entitled to any additional compensation by reason thereof. See Section 01 11 16 for costs and restrictions for work performed outside Normal Working Hours.

- 10.4 The successful Bidder recognizes and acknowledges that TIME IS OF THE ESSENCE IN THE COMMENCEMENT, PROSECUTION, AND CONSTRUCTION OF THE WORK. THE NJSEA FIREHOUSE IS A CRITICAL LIFE-SAFETY COMPONENT TO THE NJSEA COMPLEX AND FOR SUPPORTING ALL PLANNED HIGH-CAPACITY EVENTS INCLUDING, WITHOUT LIMITATION THE 2026 FIFA WORLD CUP. The successful Bidder guarantees that it can and will complete the Work within the Contract Time.
- 10.5 NJSEA, State of New Jersey and PLA work restrictions and work shift differentials will not be a reason for additions or reduced compensation, unless wages are related to an approved contract change.
- 10.6 Work must be completed for the following within the specified consecutive calendar days upon receipt of written Notice-to-Proceed as follows:

Phase	Milestone Description	Base Bid Required Time for Completion (255 CCD's)	Bid Alternate No. 1 – Alternate Time for Completion (215 CCD's)
I	<u>Mobilization & Preconstruction</u> <ul style="list-style-type: none"> • Site Specific Safety, logistics, and access plan • Approved CPM schedule & schedule of values • Obtain all Regulatory Permits • Perform GPR • Complete Temporary egress vestibule • Soil Erosion and sediment control in place 	30 CCD's	30 CCD's
II	<u>Selective Demolition & Utility Relocations</u> <ul style="list-style-type: none"> • Complete all selective demolition • Complete all underground utility relocations 	60 CCD's	50 CCD's
III	<u>Foundations and Slabs</u> <ul style="list-style-type: none"> • Complete the installation of all piles • Complete all Grade Beams and Slabs on Grade • Perform Anchor Bolt Survey 	125 CCD's	110 CCD's

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Phase	Milestone Description	Base Bid Required Time for Completion (255 CCD's)	Bid Alternate No. 1 – Alternate Time for Completion (215 CCD's)
IV	<u>Building Enclosure</u> <ul style="list-style-type: none"> • Exterior CMU Walls Complete • Roofing system Complete • Doors and windows Complete 	200 CCD's	170 CCD's
V	<u>Substantial Completion</u> <ul style="list-style-type: none"> • System startup and balancing • Final inspections (MEP, building, fire, site) • Punch list walk-through 	225 CCD's	185 CCD's
VI	<u>Closeout & Demobilization</u> <ul style="list-style-type: none"> • Punch list completion • Record documents & O&M manuals • Site cleanup and demobilization 	255 CCD's	215 CCD's

See Section 01 11 16 for work restrictions and occupancy requirements.

10.7 Right to Early Completion – The Contractor has the right to an early completion for the Contract and/or any specified milestone and/or any specified phase.

11.0 LIQUIDATED DAMAGES

11.1 Should the successful Bidder fail to complete the Work or portion of the Work fully and in conformity with all provisions of the Contract within the time stipulated in the Contract for a milestone or Substantial Completion, without obtaining an extension of time as approved in writing by the NJSEA, then the successful Bidder shall and hereby agrees to pay the amount(s) identified below for each consecutive day beyond the date allowed by the Contract that each milestone or Substantial Completion, identified below, has not been achieved. This amount is (These amounts are) agreed upon as a reasonable and proper measure of damages, at the time of Contract formation, that the Owner will sustain per day by failure of the successful Bidder to complete the portion of the Work leading to that milestone(s). Liquidated damages associated with each milestone are independent and cumulative.

11.2 Said amount for liquidated damages is fixed and agreed upon by and between the successful Bidder and NJSEA because of the impracticability and extreme difficulty of fixing and ascertaining the actual damages the Owner would in such

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event sustain, and said amount is determined at the time of Contract formation and agreed upon to be the amount of damages that the NJSEA would sustain.

- 11.3 Successful Bidder will not be charged liquidated damages when the NJSEA determines that the successful Bidder is without fault and the successful Bidder's reasons for requesting a time extension are acceptable to the Director, provided further, that the successful Bidder shall not be charged with liquidated damages or an excess cost when the delay in completion of Work is due to:
1. any preference, priority, or allocation order duly issued by the NJSEA.
 2. unforeseeable cause beyond the control and without the fault or negligence of the successful Bidder, included, but not restricted to, acts of God, or of other public enemy, act of NJSEA; acts of another contractor in the performance of another contract with NJSEA. The date the Contractor receives NTP is the first day of Contract Time.
- 11.4 Substantial Completion Damages shall be liquidated in the sum of \$10,000.00 for each day, which the Contractor fails to achieve Substantial Completion.
- 11.5 Intermediate Milestone Completion Damages shall be liquidated in the sum of \$500 per consecutive calendar day for each day by which the Contractor fails to achieve Intermediate Milestone Completion as summarized in the table within this section.

12.0 BID FORM AND SUBMISSION

- 12.1 Bids must be submitted on the prescribed form. Telephone or email bids shall not be accepted. An additional unbound copy of the Bid Forms is provided for that purpose with the Contract Documents. Do not use the Bid Forms bound in the Contract Documents.
- 12.2 The Bid Forms must be completed in ink or by computer. The bid price of each item must be stated in words and numerals. All blank spaces must be completed. Ditto marks shall not be used. Discrepancies between words and numerals will be resolved in favor of the words. Discrepancies in extension of unit prices will be resolved in favor of the unit price. Discrepancies between the indicated sum of a column of figures and the correct sum will be resolved in favor of the correct sum.
- 12.3 All unit prices shall be NET and shall include all incidental work normally required in connection with the particular type of work involved, and shall include (but not necessarily be limited to) the following:
- a. All engineering, including detailing and shop drawings.

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- b. All material costs, including an allowance for waste.
 - c. The provision of all necessary accessories.
 - d. All engineering, including detailing and shop drawings.
 - e. All material costs, including an allowance for waste.
 - f. The provision of all necessary accessories.
 - g. All fabrication and shop costs.
 - h. All shop and field labor, including supervision and engineering layout costs.
 - i. All temporary utilities required, including safety precautions.
 - j. All costs of standby trades during or beyond normal working hours.
 - k. All charges for transportation, freight, insurance, taxes, overhead, profit and any other item, as well as bonding costs, if applicable.
 - l. If unit prices are not deemed fair and reasonable by the NJSEA, Bids may be rejected.
- 12.4 Bids by corporations must be executed in the corporate name by the president or a vice-president (or other corporate officer accompanied by evidence of authority to sign) and the corporate seal must be affixed and attested by the secretary or an assistant secretary. The name and title of the signatory, the corporate address, and the state of incorporation shall be typed below the signature.
- 12.5 Bids by partnerships must be executed in the partnership name by a general partner, whose name, title, and official partnership address must be typed below the signature.
- 12.6 The Bid shall contain an acknowledgment of receipt of all addenda (the numbers of which shall be written on the Bid Forms in the appropriate place).
- 12.7 The address and telephone number, to which communications regarding the Bid will be directed, must also be shown.
- 12.8 Each Bidder who is not chartered under the laws of the State of New Jersey but licensed to do business in the State of New Jersey must submit with its Bid a certificate authorizing it to do business in the State of New Jersey. Also see Article 26 of the INSTRUCTIONS TO BIDDERS.
- 12.9 Each Bidder who is a corporation not organized under the laws of the State of New Jersey or is not authorized to do business in the State of New Jersey must obtain a certificate authorizing it to do business in the State of New Jersey prior to the award of the contract.

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- 12.10 Per NJSA 52:25-24.2, if the Bidder is a corporation or partnership, the Bidder shall complete the Section 00424; BIDDERS DISCLOSURE FORM, setting forth the names and addresses of all its owners holding a ten (10) percent or greater interest in the corporation or partnership.
- 12.11 See Article 28 of the INSTRUCTIONS TO BIDDERS for requirements of Executive Order 117.
- 12.12 Any Bid may be withdrawn prior to the time for termination of receipt of bids specified in the ADVERTISEMENT FOR BIDS.
- 12.13 Refer to the GENERAL CONDITIONS for additional information regarding the submission of the Bid.

13.0 RECEIPT AND OPENING OF BIDS:

- 13.1 To be considered valid, Bids must be received on or before the time specified in the ADVERTISEMENT FOR BIDS.
- 13.2 All Bidders agree the Bids shall remain open for 90 days after the day of opening, but the NJSEA may at its sole discretion, release any Bid and return the bid security prior to that date.
- 13.3 If, within 24 hours after Bids are opened, any Bidder files a duly signed written notice with NJSEA and promptly thereafter demonstrates to the reasonable satisfaction of NJSEA that there was a material and substantial mistake in the preparation of its Bid, that Bidder may withdraw its Bid and the bid security will be returned. Thereafter, that Bidder will be disqualified from further bidding on the Work.

14.0 BID SECURITY:

- 14.1 Each Bid must be accompanied by a bid security (in the form of a bid bond, issued by a surety licensed in the State of New Jersey; or a certified check, issued by a national bank or trust company) and payable to the order of the NJSEA, in the amount of five percent of the Bid, but not exceeding \$20,000.00. The bid bond must be executed by a company authorized to do business in the State of New Jersey.
- 14.2 The bid security shall be enclosed in the sealed envelope containing the Bid. The bid security will be held by the NJSEA as security for fulfillment of the Bidder's promises set forth in its Bid; that it will not withdraw its Bid while it is being considered, and will execute the Contract and furnish the required bonds, insurance certificates, and other documents, if its Bid is accepted.

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- 14.3 The successful Bidder, upon its failure or refusal to execute and deliver the contract, insurance, bonds, and other documents required within the time limits specified, shall forfeit the bid security deposited with its Bid. The forfeited bid security shall be credited towards the damages suffered; which shall be defined as the difference between the amount specified in the successful Bid and the amount for which the NJSEA may contract with another party to perform the work covered by said Bid (if the latter amount be in excess of the former) together with any additional expenses incurred by the NJSEA as a result of such Bidder's failure to enter into the contract; including, but not limited to, the expense for re-advertisement for bids and the processing of such bids. Any amount in excess of such damages shall be returned to the Bidder.
- 14.4 Except as specified above said bid security shall be returned to the Bidder as hereinafter provided. Bid security will be returned to all except the three lowest Bidders within ten working days after the formal opening of Bids, and to the three lowest Bidders within 5 working days after the successful Bidder and the NJSEA have executed the Contract. In the event that the Contract has not been awarded by the NJSEA within 60 days after the opening of the Bids, bid security will be returned promptly upon the demand of any Bidder whose Bid has not been accepted.
- 15.0 RIGHT TO REJECT, WAIVE, OR ACCEPT:**
- 15.1 The NJSEA reserves the right to reject any and/or all non-conforming, non-responsive, or conditional bids; to waive any informalities in any Bid; and to accept any Bid deemed to be in the best interest of the NJSEA.
- 16.0 EVALUATION OF BIDS:**
- 16.1 The NJSEA may make such investigations as it deems necessary to determine the ability of the Bidder to perform the work; and the Bidder shall furnish all such information and data for this purpose as NJSEA may request. The NJSEA reserves the right to reject any Bid if the evidence submitted by (or the investigation of) such Bidder fails to satisfy it that such Bidder is properly qualified to carry out the obligations of the Contract, and to complete the work contemplated therein.
- 16.2 Bidders shall be experienced in the kind of work to be performed, have the necessary equipment therefore, and possess sufficient capital to properly execute the work within the time allowed. Bids received from Bidders who have previously failed to complete contracts within the time required, or who have previously performed similar work in an unsatisfactory manner, may be rejected. A Bid may be rejected if the Bidder cannot show that it has the necessary ability, plant, and equipment to commence the work at the time prescribed, and thereafter to prosecute and complete the work at the rate or within the time specified.

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A Bid may also be rejected if the Bidder is already obligated for the performance of other work that would delay the commencement, prosecution, or completion of the Work.

- 16.3 In evaluating the Bids, the NJSEA shall consider the qualifications of the Bidders, whether or not the Bids comply with the prescribed requirements, and alternates and unit prices if requested in the Bid Forms. The NJSEA reserves the right to choose any of the alternates described in the Bid Forms. Final determination will be at the sole discretion of the NJSEA and will be made after receipt of Bids.
- 16.4 The NJSEA may consider the qualifications and experience of subcontractors and other persons and organizations (including those who are to furnish the principal items of material or equipment) proposed for those portions of the work. Operating costs, maintenance considerations, performance data, and guarantees of materials and equipment may also be considered.
- 16.5 The NJSEA reserves the right to reject the Bid of any Bidder who does not pass these investigations to the satisfaction of the NJSEA.
- 16.6 If requested by the NJSEA, the three lowest Bidders shall, within 10 days of such request, submit a financial statement prepared by a Certified Public Accountant.

17.0 AWARD AND SIGNING OF THE CONTRACT:

- 17.1 Award of the Contract, if made, will be to the lowest responsive Bidder whose Bid complies with the requirements stated herein, and whose evaluation indicates to the NJSEA that the award will be in the best interests of the NJSEA.
- 17.2 The NJSEA will award the Contract (or reject all bids) within 60 days from the bid opening date. If the NJSEA requests and the Bidders agree, the Bids may be held open for consideration for such longer time as may be agreed.
- 17.3 The contract shall be extended at the sole discretion of the NJSEA, as deemed to be in its own best interest.
- 17.4 Upon award of the Contract by the NJSEA, three (3) copies of the Contract will be sent to the Successful Bidder. All three copies shall be signed by the Bidder and returned along with the required bonds, insurance certificate and other documents. After acceptance of these documents, the NJSEA will execute the Contract and deliver two (2) fully signed copies of the Contract to the Contractor.

18.0 ESTIMATES OF QUANTITIES OF WORK:

- 18.1 The NJSEA reserves the right to increase or decrease the quantities of any item of Work as may be deemed necessary, or to leave out any item or to add new items, if and when the necessity arises.

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19.0 SUBSTITUTE MATERIALS AND EQUIPMENT:

19.1 The Contract, if awarded, will be on the basis of the materials and equipment described in the Contract Documents without consideration of possible substitute or "or equal" items. The procedure for submittal of any request for such substitution by the Contractor, and consideration by the NJSEA, is set forth in the GENERAL CONDITIONS.

20.0 MATERIALS AND EQUIPMENT:

20.1 All materials and equipment for the work shall be furnished by the Contractor unless otherwise specified. They shall conform to the Contract Documents and shall be from an acceptable source.

20.2 Where possible, preference shall be given to New Jersey manufacturers and/or suppliers.

20.3 All materials and equipment for the work shall be new, except where the use of existing or previously used materials and equipment is specified.

21.0 BONDS AND INSURANCE:

21.1 The attention of the Bidder is directed to the GENERAL CONDITIONS regarding the requirements for bonds and insurance.

22.0 POWER-OF-ATTORNEY:

22.1 Attorneys-in-fact who sign bid bonds or contract bonds must file with each bond a certified copy of their power-of-attorney to sign said bonds.

23.0 ASSIGNMENTS:

23.1 The Contractor shall not assign the whole or any part of this Contract without prior written notice to and the written consent of the NJSEA. Money due or to become due the Contractor hereunder shall not be assigned for any purposes whatsoever.

24.0 APPLICABLE LAWS AND SAFETY REGULATIONS:

24.1 The attention of the Bidders is especially directed to the provisions of Federal, State, County, and Municipal laws, statutes, and regulations that may apply to the work; including particularly all safety regulations. Such provisions refer to obstruction of streets, open burning, maintaining of signals, storing and handling of explosives, etc. Particular note shall also be taken of those provisions affecting the Contractor or its employees in the prosecution of the work or its relation to any political subdivision or person. All pertinent laws, statutes, ordinances, and regulations shall be obeyed and complied with by the Contractor, its subcontractor

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, and all of its representatives.

- 24.2 The Contractor shall comply with all provisions of Federal and New Jersey State Labor Laws.
- 24.3 The Contractor shall comply with all current requirements of the Federal Department of Labor, Safety, and Health Regulations for construction promulgated under the Occupational Safety and Health Act of 1970 (PL 91-596); and under Section 107 of the Contract Work Hours and Safety Standards Act (PL 91-54); and the Superfund Amendments and Reauthorization Act of 1986 (PL 99-499).
- 24.4 The Contractor shall also comply with all current requirements for construction promulgated under the New Jersey Department of Labor and Industry's Bureau of Engineering and Safety regulations, Title 12 of the NJAC.
- 24.5 In accordance with generally accepted construction practices, the Contractor shall be solely and completely responsible for conditions in, on, or near the job site; including safety of all persons and property affected directly or indirectly by its operations during performance of the work. This requirement will apply continuously 24 hours per day until acceptance of the work by the NJSEA. It shall not be limited to normal working hours.
- 24.6 The duty of the NJSEA, or its authorized representative, to conduct construction review of the Contractor's performance does not include review of the adequacy of the Contractor's safety measures, in, on, or near the construction site.

25.0 OFFER OF GRATUITIES:

- 25.1 No vendor shall pay, offer to pay, or agree to pay, either directly or indirectly, any fee, commission, compensation, gift, gratuity, or other item of value of any kind to any State officer or employee or special State officer or employee, as defined by NJSA 52:13D-13b. and e., in the Department of the Treasury or any other agency with which such vend or transacts or offers or proposes to transact business, or to any member of the immediate family, as defined by NJSA 52:13D-13i., of any such officer or employee, or any partnership, firm, or corporation with which they are employed or associated, or in which such officer or employee has an interest within the meaning of NJSA 52:13D-13g.
- 25.2 The solicitation of any fee, commission, compensation, gift, gratuity or other item of value by any State officer or employee or special State officer or employee, from any State vendor shall be reported in writing forthwith by the vendor to the Attorney General and the Executive Commission or Ethical Standards.

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- 25.3 No vendor may directly or indirectly, undertake any private business, commercial or entrepreneurial relationship with, whether or not pursuant to employment, contract or other agreement, express or implied, or sell any interest in such vendor to, any State officer or employee, having any duties or responsibilities in connection with the purchase, acquisition or sale of any property or services by or to any State agency or any instrumentality thereof, or with any person, firm or entity with which he is employed or associated or in which he has an interest within the meaning of NJSA 52:13D-13g. Any relationships subject to this provision shall be reported in writing forthwith to the Executive Commission on Ethical Standards, which may grant a waiver of this restriction upon application of the State officer or employee or special State officer or employee upon a finding that the present or proposed relationship does not present the potential, actuality or appearance of a conflict of interest.
- 25.4 No vendor shall influence, attempt to influence, or cause to be influenced, any State officer or employee or special State officer or employee in his official capacity in any manner which might tend to impair the objectivity or independence of judgment of said officer or employee.
- 25.5 No vendor shall cause or influence, or attempt to cause or influence, any State officer or employee, or special State officer or employee, to use, or attempt to use, his official position to secure unwarranted privileges or advantages for the vendor or any other person.
- 25.6 The provisions cited above in paragraph 19.1 through 19.5 shall not be construed to prohibit a State officer or employee, or special State officer or employee, from receiving gifts from or contracting with vendors under the same terms and conditions as are offered or made available to members of the general public subject to any guidelines the Executive commission on Ethical Standards may promulgate under paragraph 19.3.

26.0 SUBCONTRACTORS:

- 26.1 A list of proposed subcontractors shall be included with the Bid as required by the Bid Forms. The list shall be accompanied by an experience statement for each subcontractor indicating each subcontractor's qualifications. If the NJSEA, after due investigation, has reasonable objection to any proposed subcontractor, the NJSEA may, before giving the notice of award, request the apparent Successful Bidder to submit an acceptable substitute without an increase in bid price. If the apparent Successful Bidder declines to make any such substitution, the Contract shall not be awarded to said Bidder; but its declining to make such a substitution will not constitute grounds for sacrificing its bid security. Any subcontractor, to whom the NJSEA does not make a written objection prior to the giving of the notice of award, shall be deemed acceptable to the NJSEA.

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26.2 No Contractor shall be required to employ any subcontractor against whom it has objection.

26.3 The attention of the bidder is directed to GENERAL CONDITIONS for further information on Subcontractors.

26.4 Upon Notice by NJSEA, during evaluation of bids, and/or during contract formation, and/or during performance of the contract, the bidders and/or successful bidder shall complete the proposed Subcontractor Approval Form for review by NJSEA.

27.0 PRE- START CONFERENCE:

27.1 The Contractor shall be prepared to attend a pre-start up conference after execution of the Contract, and prior to the beginning of work, at which representatives of the NJSEA will be present, to discuss performance of the work under this contract. The Contractor's representative must be authorized to speak for the Contractor and to act as an agent of the Contractor.

28.0 CONTRACT DOCUMENTS:

28.1 The information and requirements included as the INSTRUCTIONS TO BIDDERS are neither inclusive nor exclusive, and the Bidder or Contractor shall make no claim for lack of notice because information requirements are stated elsewhere in the Contract Documents, but are not repeated herein.

28.2 The Table of Contents, titles, headings, running headlines, and notes contained in the Contract Documents are solely to facilitate reference to various provisions of the Contract Documents; and in no way affect, limit, or cast light on the interpretation of the provisions to which they refer.

29.0 EQUAL EMPLOYMENT OPPORTUNITY AND AFFIRMATIVE ACTION:

29.1 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

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shall include, but not be limited to the following: employment, up-grading, 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 places 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 of 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 contractors' 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 the N.J.S.A. 10:5-31 et seq., as amended and supplemented from time to time with the Americans with Disabilities Act.

When hiring or scheduling workers in each construction trade, the contractor or subcontractor agrees to make good faith effort 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 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

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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 assurance from the construction trade union at least five business days prior to the commencement of the 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:
 1. 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 its 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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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 contractor 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 contractors 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.

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- (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 Division and submitted promptly to the Dept. of LWD, Construction Monitoring Program upon request.
- 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 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 ration 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

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initial project workforce report (Form AA201) electronically provided to the public agency by the Division, 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 to his contract to the Dept. of LWD, Construction EEO Monitoring Program, and to the public agency compliance officer.

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

The contractor and its subcontractor 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 NJAC 17:27-1.1 et seq.

The Executive Order No. 151 (Corzine, August 28, 2009) and P.L. 2009, Chapter 335 include a provision which require all state agencies, independent authorities and colleges and universities to include additional mandatory equal employment and affirmative action language in its construction contracts. It is important that this language is in addition to and does not replace the mandatory contract language and good faith efforts requirements for construction contracts required by N.J.A.C. 17-27-3.6, 3.7 and 3.8, also known as Exhibit B. The additional mandatory equal employment and affirmative action language is as follows:

It is the policy of the [Reporting Agency] that its contracts should create a workforce that reflects the diversity of the State of New Jersey. Therefore, contractors engaged by the [Reporting Agency] to perform under the construction contract shall put forth a good faith effort to engage in recruitment and employment practices that further the goal of fostering equal opportunities to minorities and women.

The contractor must demonstrate to the [Reporting Agency]'s satisfaction that a good faith effort was made to ensure that minorities and women have been afforded equal opportunity to gain employment under the [Reporting Agency]'s contract with the contractor. Payment may be

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withheld from a contractor's contract for failure to comply with these provisions.

Evidence of a "good faith effort" includes, but is not limited to:

1. The Contractor shall require prospective employees through the State Job bank website, managed by the Department of Labor and Workforce Development, available online at <http://NJ.gov/JobCentralNJ>;
2. The Contractor shall keep specific records of its efforts, including records of all individuals interviewed and hired, including the specific numbers of minorities and women;
3. The Contractor shall actively solicit and shall provide the [Reporting Agency] with proof of solicitations for employment, including but not limited to advertisements in general circulation media, professional service publications and electronic media; and
4. The Contractor shall provide evidence of efforts described at 2 above to the [Reporting Agency] no less frequently than once every 12 months.
5. The Contractor shall comply with the requirements set forth at N.J.A.C. 17:27.

To ensure successful implementation of Executive Order and Law, state agencies, independent authorities and colleges and universities must forward and Initial Project Workforce Report (AA201) for any projects funded with ARRA money to the Division of Public Contracts EEO Compliance immediately upon notification of award but prior to execution of the contract.

31.0 NEW JERSEY EQUAL PAY ACT:

- 31.1 Please be advised that in accordance with P.L. 2018, c. 9, also known as the Diane B. Allen Equal Pay Act, which was signed into law by Governor Phil Murphy on April 24, 2018, a contractor performing "qualifying services" or "public work" to the State or any agency or instrumentality of the State shall provide the Commissioner of Labor and Workforce Development a report regarding the compensation and hours worked by employees categorized by gender, race, ethnicity, and job category. For more information and report templates see <https://nj.gov/labor/equalpay/equalpay.html>.

3. STATE LAW REQUIRING MANDATORY COMPLIANCE BY CONTRACTORS UNDER CIRCUMSTANCES SET FORTH IN LAW OR BASED ON THE TYPE OF CONTRACT:

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3.8 DIANE B. ALLEN EQUAL PAY ACT Pursuant to N.J.S.A. 34:11-56.14, a contractor performing “qualifying services” or “public work” to the State or any agency or instrumentality of the State shall provide the Commissioner of Labor and Workforce Development a report regarding the compensation and hours worked by employees categorized by gender, race, ethnicity, and job category. For more information and report templates see <https://nj.gov/labor/equalpay/equalpay.html>.

32.0 BUSINESS REGISTRATION CERTIFICATE:

32.1 Pursuant to N.J.S.A. 52:32-44, the New Jersey Sports & Exposition Authority (“Contracting Agency”) is prohibited from entering into a contract with an entity unless the 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. A subcontractor named in a bid or other proposal shall provide a copy of its business registration to the Contractor who shall provide it to the Contracting Agency (NJSEA).

32.2 The bidder/proposer/contractor shall maintain and submit to the Contracting Agency a list of subcontractors and their addresses that may be updated from time to time with the Contracting Agency during the course of contract performance.

The bidder/proposer/contractor shall submit to the Contracting Agency a complete and accurate list of all subcontractors used and their addresses before final payment is made under the contract.

32.3 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.

32.4 The bidder/proposer/contractor and any subcontractor providing goods or performing services under the contract, and each of their affiliates, shall during the term of the contract, 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, P.L. 1966, c.30 (N.J.S.A. 54:32B-1 et seq.) on all sales of tangible personal property delivered in the State. Any questions in this regard can be directed to the Division of Revenue at (609) 292-1730. Form NJ-REG can be filed online at [HTTP://www.state.nj.us/treasury/revenue/busregcert.shtml](http://www.state.nj.us/treasury/revenue/busregcert.shtml).

A. Emergency Purchases or Contracts

For purchases of an emergent nature, the contractor shall provide its Business Registration Certificate within two weeks from the date of

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purchase or execution of the contract or prior to payment for goods or services, whichever is earlier.

33.0 REGISTRATION WITH THE PUBLIC WORKS CONTRACTOR:

- 33.1 The Contractor and all subcontractors shall provide, **with the Bid**, proof of registration with the Public Works Contractor Registration Act (NJSA 34:11-56.48 et. seq.). Registration information can be obtained on the worldwide web at <https://nj.gov/labor/wageandhour/registration-permits/register/publicworksregistration.shtml> or by calling 609-292-9464.
- 33.2 No Contractor shall bid on the Work of this Contract unless the Contractor is registered pursuant to this act **at the time the Bid is made.**
- 33.3 No Contractor shall list a subcontractor in the Bid for the Work of this Contract unless the subcontractor is registered pursuant to this act **at the time the Bid is made.**
- 33.4 Should a subcontractor be named after the Bid, that subcontractor must be registered pursuant to this Act prior to engaging in the Work of this Contract.

34.0 PAY TO PLAY PROBITIONS:

- 34.1 New Jersey law insulates the negotiation and award of State contracts from political contributions that pose a risk of improper influence, purchase of access or the appearance thereof. P.L.2005, c.51, as amended by the Elections Transparency Act, P.L.2023, c.30, codified at N.J.S.A. 19:44A-20.13 to 20.25 (“Chapter 51”) and Executive Order 333 (2023).

Pursuant to N.J.S.A. 19:44A-20.13 et seq. (P.L.2005, c.51, rev. P.L.2023, c.30) a “fair and open process” means, at a minimum, that the contract shall be: publicly advertised in newspapers or on the internet website maintained by the public entity in sufficient time to give notice in advance of the contract; awarded under a process that provides for public solicitation of proposals or qualifications and awarded and disclosed under criteria established in writing by the public entity prior to the solicitation of proposals or qualifications; and publicly opened and announced when awarded. A contract awarded under a process that includes public bidding or competitive contracting pursuant to State contracts law shall constitute a fair and open process. N.J.S.A. 19:44A-20.23. The agency conducting the procurement will need to determine whether the procurement meets the Election Transparency Act definition of a “fair and open process” and instruct vendors on the applicability of Chapter 51.

a. For Contracts Awarded Pursuant to a Fair and Open Process

Pursuant to P.L.2005, c.51, as amended by the Elections Transparency Act, P.L.2023, c.30, codified at N.J.S.A. 19:44A-20.13 to 20.25 (“Chapter 51”), and

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Executive Order No. 333 (2003), contracts awarded pursuant to a fair and open process do not require a certification or disclosure of any solicitation or contribution of money, or pledge of contribution, including in-kind contributions.

b. For Contracts Awarded Pursuant to a Non-Fair and Open Process

Pursuant to N.J.S.A. 19:44A-20.13 et seq. (P.L.2005, c.51, rev. P.L.2023, c.30), and Executive Order 333 (2023), the State shall not enter into a Contract to procure services or any material, supplies or equipment, or to acquire, sell, or lease any land or building from any Business Entity, where the value of the transaction exceeds \$17,500, if that Business Entity has solicited or made any contribution of money, or pledge of contribution, including in-kind contributions, to a Continuing Political Committee or to a candidate committee and/or election fund of any candidate for or holder of the public office of Governor or Lieutenant Governor during certain specified time periods. It shall be a breach of the terms of the contract for the Business Entity to:

- (1) Make or solicit a contribution in violation of the statute;
- (2) Knowingly conceal or misrepresent a contribution given or received;
- (3) Make or solicit contributions through intermediaries for the purpose of concealing or misrepresenting the source of the contribution;
- (4) Make or solicit any contribution on the condition or with the agreement that it will be contributed to a campaign committee or any candidate of holder of the public office of Governor or Lieutenant Governor;
- (5) Engage or employ a lobbyist or consultant with the intent or understanding that such lobbyist or consultant would make or solicit any contribution, which if made or solicited by the business entity itself, would subject that entity to the restrictions of the Legislation;
- (6) Fund contributions made by third parties, including consultants, attorneys, family members, and employees;
- (7) Engage in any exchange of contributions to circumvent the intent of the Legislation; or
- (8) Directly or indirectly through or by any other person or means, do any act which would subject that entity to the restrictions of the Legislation.

Further the Contractor is required, on a continuing basis, to report any contributions it makes during the term of the Contract, and any extension(s) thereof, at the time any such contribution is made.

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A “Continuing Political Committee” means any political organization (a) organized under section 527 of the Internal Revenue Code; and (b) consisting of any group of two or more persons acting jointly, or any corporation, partnership, or any other incorporated or unincorporated association, including a political club, political action committee, civic association or other organization, which in any calendar year contributes or expects to contribute at least \$5,500 to the aid or promotion of the candidacy of an individual, or of the candidacies of individuals, for elective public office, or the passage or defeat of a public question or public questions, and which may be expected to make contributions toward such aid or promotion or passage or defeat during a subsequent election, provided that the group, corporation, partnership, association or other organization has been determined to be a Continuing Political Committee by the New Jersey Election Law Enforcement Commission under N.J.S.A. 19:44A-8. A Continuing Political Committee does not include a “political party committee,” a “legislative leadership committee,” or an “independent expenditure committee,” as defined in N.J.S.A. 19:44A-3.

Prior to awarding any Contract or agreement to any Business Entity pursuant to a non-fair and open process, the Business Entity proposed as the intended Contractor of the Contract shall submit the Two-Year Chapter 51/Executive Order 333 Vendor Certification and Disclosure of Political Contributions for Non-Fair and Open Contracts, certifying either that no contributions to a Continuing Political Committee or to a candidate committee or election fund of a gubernatorial candidate have been made by the Business Entity and reporting all qualifying contributions made by the Business Entity or any person or entity whose contributions are attributable to the Business Entity. The required form and instructions, available for review on the Division’s website at <http://www.state.nj.us/treasury/purchase/forms/eo134/Chapter51.pdf>.

POLITICAL CONTRIBUTION DISCLOSURE:

The contractor is advised of its responsibility to file an annual disclosure statement on political contributions with the New Jersey Election Law Enforcement Commission (ELEC), pursuant to N.J.S.A. 19:44A-20.27 (P.L.2005, c.271, rev. P.L.2023, c.30) if in a calendar year the contractor receives one or more contracts valued at \$50,000.00 or more. It is the contractor’s responsibility to determine if filing is necessary. Failure to file can result in the imposition of penalties by ELEC. Additional information about this requirement is available from ELEC

Contract CN-296_NJSEA Firehouse Garage Additions and Renovation
SECTION 00100 – INSTRUCTIONS TO BIDDERS

by calling 1(888)313-3532 or on the internet at
<http://www.elec.state.nj.us/>.

35.0 EXECUTIVE ORDER 117:

35.1 Executive Order No. 117 builds on the provisions of P.L. 2005, c. 51 (“Chapter 51”), which limits contributions to certain political candidates and committees by for-profit business entities that are, or seek to become, State government vendors.

Executive Order No. 117 extends the provisions of Chapter 51 in two ways:

- a. The definition of “business entity” is revised and expanded so that contributions by the following individuals also are considered contributions attributable to the business entity:
 1. Officers of corporations and professional services corporations, with the term “officer” being defined in the same manner as in the regulations of the Election Law Enforcement Commission regarding vendor disclosure requirements (N.J.A.C. 19:25-26.1), with the exception of officers of non-profit entities;
 2. Partners of general partnerships, limited partnerships, and limited liability partnerships and members of limited liability companies (LLCs), with the term “partner” being defined in the same manner as in the regulations of the Election Law Enforcement Commission regarding vendor disclosure requirements (N.J.A.C. 19:25-26.1); and
 3. Spouses, civil union partners, and resident children of officers, partners, LLC members and persons owning or controlling 10% or more of a corporation’s stock are included within the new definition, except for contributions by spouses, civil union partners, or resident children to a candidate for whom the contributor is eligible to vote or to a political party committee within whose jurisdiction the contributor resides.
- b. Reportable contributions (those over \$300.00 in the aggregate) to legislative leadership committees, municipal political party committees, and candidate committees or election funds for Lieutenant Governor are disqualifying contributions in the same manner as reportable contributions to State and county political party committees and candidate committees or election funds for Governor have been disqualifying contributions under Chapter 51.

36.0 NEW JERSEY PREVAILING WAGE ACT:

36.1 The New Jersey Prevailing Wage Act, P.L. 1963, Chapter 150, is hereby made a part of every contract entered into by the Authority, except those contracts which

Contract CN-296_NJSEA Firehouse Garage Additions and Renovation
SECTION 00100 - INSTRUCTIONS TO BIDDERS

are not within the contemplation of the Act. The Proposer's submission of its Proposal is its guarantee that neither it nor any subcontractors might employ to

perform the work covered by this bid are listed or are on record in the Office of the Commissioner of the Department of Labor and Industry as one who has failed to pay prevailing wages in accordance with the provisions of the Act.

Attention is directed to the Prevailing Wage Rate List and to the applicable provisions of "The New Jersey Prevailing Wage Act" Chapter 150 of the Laws of 1963 governing the prevailing rates of wage for workers who are employed in this project. All provisions of said Wage Act and amendments thereto, shall be considered part of the Contract and made part thereof.

The Proposer, by submitting the Proposal, declares to the Authority that it is aware of the provisions of said Wage Act with relation to prevailing rates of wages for workers to be employed on this project.

37.0 NOTICE OF SETOFF FOR STATE TAXES:

37.1 Pursuant to N.J.S.A. 54:49-19, if the Contractor is entitled to payment under the Contract at the same time as it is indebted for any State tax (or is otherwise indebted to the State), the NJSEA may set off that payment by the amount owed.

37.2 The Bidder shall certify acknowledgement of this by completing the form contained in the SAMPLE BID FORMS.

38.0 NEW JERSEY PROMPT PAYMENT ACT:

38.1 The New Jersey prompt Payment Act (N.J.S.A. 52:32-32 et seq.) requires state agencies to pay for goods and services within sixty (60) days of the agency's receipt of a properly executed State Payment Voucher or within sixty (60) of receipt and acceptance of goods and services, whichever is later. Properly executed performance security, when required, must be received by the state prior to processing any payments for goods and services accepted by state agencies. Interest will be paid on delinquent accounts at a rate established by the State Treasurer. Interest will not be paid until it exceeds \$5.00 per properly executed invoice.

39.0 CORPORATE RESOLUTION FORM

39.1 Bidders to complete a corporate resolution form per BID SAMPLE FORMS.

Contract CN-296_NJSEA Firehouse Garage Additions and Renovation
SECTION 00100 – INSTRUCTIONS TO BIDDERS

40.0 OWNER DISCLOSURE FORM and MACBRIDE PRINCIPLES:

40.1 The successful bidder is required to complete Division of Purchase and Property Ownership Disclosure Forms (N.J.S.A. 52:25-24.2 et seq.) including Disclosure of Investigations, Disclosures of Investment Activities in Iran pursuant to Public Law 2012, c. 25, MacBride Principles Form pursuant to Public Law 1995, c. 134, and Certification of Non-Involvement in Prohibited Activities in Russia or Belarus pursuant to Public Law 2022, c.3.

40.2 Forms and Instructions are included in the Appendix.

41.0 PROOF OF COMPETENCY OF BIDDERS

41.1 Any Bidder may be required to furnish evidence satisfactory to the NJSEA that the Bidder and his proposed Subcontractors have sufficient means and experience in the types of work called for to assure completion of the Contract in a satisfactory manner. In particular, the Contractor must have the appropriate licenses to perform the required remediation.

41.2 The NJSEA reserves the right to reject any Bid if the evidence submitted fails to satisfy the NJSEA that the Bidder and/or Bidder's proposed Subcontractors are qualified to carry out and complete the Contract.

42.0 ANTI-KICKBACK ACT

42.1 The Contractor shall comply with the applicable regulations of the Secretary of Labor, United States Department of Labor, promulgated pursuant to the so-called "Anti-Kickback Act" of June 13, 1934 (48 Stat. 863: Title 18 U.S.C., Sec. 874, and Title 40 U.S.C., Sec. 276c), and any amendments or modifications thereof, and shall cause appropriate provisions to be inserted in Subcontracts to insure compliance therewith by all Subcontractors.

43.0 BUY AMERICAN

43.1 Only manufactured and farm products of the United States, wherever available, shall be used under this Contract, pursuant to N.J.S.A. 40A:11-18.

44.0 LAWS, ORDINANCES, CODES AND REGULATIONS

44.1 All "work" to be provided for this project shall conform to the following and subsequent revisions thereto:

- a. The State Uniform Construction Code Act (N.J.S.A. 52:27D-119 et seq.); and the Uniform Construction Code and all applicable Sub codes thereof.
- b. All applicable published communications by the Department of Community Affairs (DCA) including but not limited to the following:

Contract CN-296_NJSEA Firehouse Garage Additions and Renovation
SECTION 00100 – INSTRUCTIONS TO BIDDERS

1. DCA Interpretations
 2. DCA Formal Technical Opinions
 3. DCA Bulletins
 4. Related Regulations
 5. Miscellaneous
- c. The Americans with Disabilities Act of 1990.
- d. NJDOT Standard Specifications and details except as outlined otherwise.
- 44.2 The Specifications make reference to certain laws, ordinances, codes and regulations, whether they be by Federal, State, County and/or Municipal Governments. This is done to alert those involved with the Project of unique requirements that pertain to building construction work for the NJSEA. This is not intended as a limitation of the Contractor's responsibility to comply with any and all other Federal, State and Local building codes and ordinances that relate to this project.
- 45.0 STOCKHOLDER DISCLOSURE:**
- 45.1 All corporations and partnerships submitting a bid are required to enclose a list of the names and addresses of all stockholders owning 10% or more of their stock or 10% or more of the stock of their corporate stockholders or in the case of a partnership, the names and addresses of those owning a 10% or greater interest therein.
- 46.0 WITHDRAWAL OF BIDS**
- 46.1 Upon proper request and identification a bidder may withdraw his bid prior to the scheduled time for the opening thereof. However, no bid may be withdrawn after the first bid has been opened and thereafter not for a period of 60 days after the date of the opening thereof.
- 47.0 LIQUIDATED DAMAGES FOR FAILURE TO ENTER INTO CONTRACT**
- 47.1 The successful bidder upon his failure or refusal to execute and deliver the Contract and Contract Bond required within 5 days after he has received notice of the acceptance of his bid shall forfeit to the Owner as liquidated damages for such failure or refusal the security deposited with his bid.

Contract CN-296_NJSEA Firehouse Garage Additions and Renovation
SECTION 00100 – INSTRUCTIONS TO BIDDERS

48.0 PENALTIES FOR FALSE STATEMENTS

48.1 Any person who makes or causes to be made a false deceptive or fraudulent statement in the statement or answers in response to the questionnaire, or in the course of any hearing hereunder, shall be guilty of a misdemeanor, and upon conviction shall be punishable by a fine of not less than \$ 100.00 no more than \$1,000.00, and shall be permanently disqualified from bidding all public work or contracts of the contracting unit which submitted the questionnaire; or , in the case of an individual or an officer or employee charged with the duty of responding to the questionnaire for a person, firm, co partnership, association or corporation, by such fine or by imprisonment, not exceeding-6 months, or both (40A: 11-34).

49.0 PAYMENT RETENTION

- 49.1** During construction, a retention of five percent (5%) payments claimed until acceptance of the work, provided that the Contractor is making satisfactory progress and there is no specific cause for greater withholding.
- 49.2** Retention's for payments of claims, defective work, potential losses, etc., may also be withheld. The attention of the bidder is directed to GENERAL CONDITIONS for further information on payment retention.

50.0 NJSEA RESERVED RIGHTS

50.1 The NJSEA reserves the right to:

1. Reject any or all bids received in response to the Advertisement for Bids or the "Procurement";
2. Withdraw the Procurement at any time, at NJSEA's sole discretion;
3. Make an award under the Procurement;
4. Seek clarifications and revisions of Bid submission;
5. Use information obtained through site visits, management interviews and NJSEA's investigation of a Bidder's qualifications, experience, ability or financial standing, and any material or information submitted by the Bidder in response to the NJSEA's request for clarifying information in the course of evaluation and/or selection under the Procurement;
6. Prior to the bid submission, amend the Procurement specifications to correct errors or oversights, or to supply additional information, as it becomes available;
7. Prior to the bid submission, direct Bidders to submit Bid modifications addressing subsequent Procurement Addenda;
8. Change any of the scheduled dates;

Contract CN-296_NJSEA Firehouse Garage Additions and Renovation
SECTION 00100 – INSTRUCTIONS TO BIDDERS

9. Eliminate any mandatory, non-material specifications that cannot be complied with by all of the prospective bidders;
10. Waive any requirements that are not material;
11. Negotiate with the successful Bidder within the scope of the Procurement in the best interests of the NJSEA;
12. Conduct contract negotiations with the next responsible Bidder, should the NJSEA be unsuccessful with negotiating with the selected Bidder;
13. Require clarification at any time during the Procurement process and/or require correction of arithmetic or other apparent errors for the purpose of assuring a full and complete understanding of a Bid and/or to determine a Bidder's compliance with the requirements of the Procurement.
14. After the Bid submission, the NJSEA reserves the right to communicate with any of the Bidders, for the purpose of gaining a better understanding of its Bid, but it is not obligated to do so. The NJSEA may discuss the Bids of any Bidder concurrently or sequentially, as the NJSEA may determine to be in its best interest. No Bidder has any rights against the NJSEA arising from any such discussion. Separately, in addition to written communications, in order to further better understand the Bidder's abilities, capacities and limitations, the NJSEA, in its sole discretion, may also conduct structured one-on-one Post-Bid Conferences, in person or through teleconferences and/or video conferences after the Bid due date and prior to any award.

END OF SECTION 00100

Contract CN-296_NJSEA Firehouse Garage Additions and Renovation
SECTION 00300 – BID SUBMISSION CHECKLIST

SECTION 00300

BID SUBMISSION CHECKLIST – Addendum No. 1

TO: The New Jersey Sports and Exposition Authority (NJSEA)

RE: NJSEA Firehouse Garage Additions and Renovation

This bid will not be accepted after 12:00 PM prevailing local time on July 17, 2025. The bidder agrees that this bid will not be withdrawn for a period of 60 calendar days after the closing time for receipt of bids.

(Name of Firm Submitting Bid)

The following documents are to be included with this bid:

- ☐ Bid Submission Checklist (this form)
- ☐ Addenda Acknowledgement Form
- ☐ Bid Price Form
- ☐ Bid Security (including Power of Attorney if bid security is in the form of a bond)
- ☐ Consent of Surety
- ☐ Bidder's Experience Affidavit
- ☐ Bidder's Disclosure Form
- ☐ Bidder's Affidavit of Authorization
- ☐ Corporate Resolution Form
- ☐ Moral Integrity Affidavit
- ☐ Non-Collusion Affidavit
- ☐ Proof of Valid Business Registration Certificate (For Contractor and all listed subcontractors)
- ☐ Proof of Registration in accordance with the Public Works Contractor Registration Act (For Contractor and all listed subcontractors)
- ☐ Notice to All Bidders of Set-Off for State Tax
- ☐ Disclosure of Investment Activities in Iran Form
- ☐ MacBride Principles Form
- ☐ Certification of Non-Involvement in Prohibited Activities in Russia or Belarus
- ☐ Affirmative Action EEO Form
- ☐ Acknowledgement of Notice of Penalties
- ☐ Self-Performance and Subcontracting Plan

**Contract CN-296_NJSEA Firehouse Garage Additions and Renovation
SECTION 00400 - SAMPLE BID FORMS - Addendum No. 1**

A. SELF-PERFORMED WORK

- i. Proposers are reminded that Self-Performance of 10% of the trade work, by the Bidder or a Bidder Team Member. Self-performed work does not include supervision and/or management or material supply. Self-performed work is defined as craft tradesperson's, subject to the New Jersey Prevailing Wage Act (N.J.S.A. 34:11-56.25 et seq.) that are employees and/or intended employees of the Proposer who will be working at the Meadowlands site.

Describe self-performed work below:

Type of Work:_____

Trade(s) To Be Employed by Bidder:_____

Type of Work:_____

Trade(s) To Be Employed by Bidder:_____

Type of Work:_____

Trade(s) To Be Employed by Bidder:_____

Type of Work:_____

Trade(s) To Be Employed by Bidder:_____

Type of Work:_____

Trade(s) To Be Employed by Bidder:_____

Type of Work:_____

Trade(s) To Be Employed by Bidder:_____

Type of Work:_____

Trade(s) To Be Employed by Bidder:_____

Type of Work:_____

Trade(s) To Be Employed by Bidder:_____

**Contract CN-296_NJSEA Firehouse Garage Additions and Renovation
SECTION 00400 - SAMPLE BID FORMS - Addendum No. 1**

Type of Work:_____

Trade(s) To Be Employed by Bidder:_____

Type of Work:_____

Trade(s) To Be Employed by Bidder:_____

Type of Work:_____

Trade(s) To Be Employed by Bidder:_____

Type of Work:_____

Trade(s) To Be Employed by Bidder:_____

Type of Work:_____

Trade(s) To Be Employed by Bidder:_____

B. SUB-CONTRACTED WORK

- i. For the purposes of bid evaluation, where work is known or likely to be subcontracted (i.e. Piles, Structural Steel, roofing, etc.) list the various Sub-Contractors who have been used in preparing this proposal and to whom subcontracts are expected to be awarded. If the Contract is awarded to this bidder, NJSEA reserves and maintains the right to approve or reject all Subcontractors, second-tier Subcontractors and any Subcontractors or fabricators to them.

Describe Sub-Contracted work below:

Type of Work:_____

Name:_____

Address:_____

Subcontractor's EIN No. _____

Type of Work:_____

Name:_____

Address:_____

Subcontractor's EIN No. _____

**Contract CN-296_NJSEA Firehouse Garage Additions and Renovation
SECTION 00400 - SAMPLE BID FORMS - Addendum No. 1**

Type of Work: _____

Name: _____

Address: _____

Subcontractor's EIN No. _____

Type of Work: _____

Name: _____

Address: _____

Subcontractor's EIN No. _____

Type of Work: _____

Name: _____

Address: _____

Subcontractor's EIN No. _____

Type of Work: _____

Name: _____

Address: _____

Subcontractor's EIN No. _____

Type of Work: _____

Name: _____

Address: _____

Subcontractor's EIN No. _____

Type of Work: _____

Name: _____

Address: _____

Subcontractor's EIN No. _____

**Contract CN-296_NJSEA Firehouse Garage Additions and Renovation
SECTION 00400 - SAMPLE BID FORMS - Addendum No. 1**

Respectfully submitted,

By: _____

Name of Firm

Date

Signature

Type or Print Name and Title

Business Address

Telephone

Contract CN-296_NJSEA Firehouse Garage Additions and Renovation
PROPOSED SUBCONTRACTOR APPROVAL FORM

PROPOSED SUBCONTRACTOR APPROVAL FORM

The work scopes contained within this form do not represent a complete project scope of work.

1. If Work is planned to be self-performed, indicate "self-performed" in Column "B" and indicate "NA" for all other columns.
2. Indicate your organization's name in Column "C" if direct proposed subcontractor.
3. If the organization is a proposed 2nd or 3rd tier subcontractor, indicate the name of the organization holding proposed contract in Column "C" and insert "NA" for "Subcontract Dollar Amount" column.
4. **Add additional rows as necessary for additional work scopes and/or if more than one subcontractor is planned for the same work scope on the Project.**

Provide documented experience to demonstrate that each proposed subcontractor has successfully performed work on contracts of a similar size and scope to the work that the subcontractor is designated to perform in the **Respondent's bid**. This form is subject to changes and/or additional category information as determined by the NJSEA and/or NJSEA's Authorized Representative.

	A.	B.	C.	D.	E.	F.	G.
	Work Scope	Name of organization proposed to perform <u>work on-site</u>	Subcontract to	Principal place of business address (not P.O. Box)	Telephone number	Subcontract Dollar Amount	Contact person / title
1	Site Work / Site Utilities						
2	Foundation / Excavation						
3	Demolition / Selective Demolition						

**Contract CN-296_NJSEA Firehouse Garage Additions and Renovation
PROPOSED SUBCONTRACTOR APPROVAL FORM**

	A.	B.	C.	D.	E.	F.	G.
	Work Scope	Name of organization proposed to perform <u>work on-site</u>	Subcontract to	Principal place of business address (not P.O. Box)	Telephone number	Subcontract Dollar Amount	Contact person / title
5	Concrete Foundations						
6	Concrete Reinforcing Steel						
7	Unit Masonry						
8	Structural Steel						
9	Structural Steel Erection						
10	Structural Steel Crane / Rigging						
11	Roofing						

**Contract CN-296_NJSEA Firehouse Garage Additions and Renovation
PROPOSED SUBCONTRACTOR APPROVAL FORM**

	A.	B.	C.	D.	E.	F.	G.
	Work Scope	Name of organization proposed to perform <u>work on-site</u>	Subcontract to	Principal place of business address (not P.O. Box)	Telephone number	Subcontract Dollar Amount	Contact person / title
12	Roof Blocking						
13	Aluminum Gutters						
14	Acoustic Ceilings						
15	Overhead Doors						
16	Doors, Frames & Hardware						
17	Glazing						
18	Windows						

**Contract CN-296_NJSEA Firehouse Garage Additions and Renovation
PROPOSED SUBCONTRACTOR APPROVAL FORM**

	A.	B.	C.	D.	E.	F.	G.
	Work Scope	Name of organization proposed to perform <u>work on-site</u>	Subcontract to	Principal place of business address (not P.O. Box)	Telephone number	Subcontract Dollar Amount	Contact person / title
19	Signage						
20	Painting						
21	Plumbing						
22	Plumbing Insulation						
23	Fire Sprinklers						
24	HVAC						
25	HVAC Ductwork						

**Contract CN-296_NJSEA Firehouse Garage Additions and Renovation
PROPOSED SUBCONTRACTOR APPROVAL FORM**

	A.	B.	C.	D.	E.	F.	G.
	Work Scope	Name of organization proposed to perform <u>work on-site</u>	Subcontract to	Principal place of business address (not P.O. Box)	Telephone number	Subcontract Dollar Amount	Contact person / title
26	Louvers						
27	Temperature Controls						
28	HVAC Crane / Rigging						
29	Temporary Control Wiring						
30	Electrical						
31	Fire Alarm System Integrator						
32							

**Contract CN-296_NJSEA Firehouse Garage Additions and Renovation
PROPOSED SUBCONTRACTOR APPROVAL FORM**

	A.	B.	C.	D.	E.	F.	G.
	Work Scope	Name of organization proposed to perform <u>work on-site</u>	Subcontract to	Principal place of business address (not P.O. Box)	Telephone number	Subcontract Dollar Amount	Contact person / title
33							
34							
34							
35							
36							
37							
38							

COMcheck Software Version COMcheckWeb
Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2022) Standard
Project Title: NJSEA Firehouse Garage
Project Type: Addition
Construction Site: Block:107.01, Lot 1
East Rutherford, New Jersey 07073
Owner/Agent: NJSEA
Designer/Contractor: Amin Gomaa
FPA
1800 Route 34
Wall Township, New Jersey 07719

Efficiency Packages

Description	Credit
Not applicable	

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts
1-APPARATUS BAY 2 #120 (Common Space Types:Emergency Vehicle Garage)	2000	0.51	1020
2-APPARATUS BAY 3 #130 (Common Space Types:Emergency Vehicle Garage)	1642	0.51	837
3-PUBLIC VESTIBULE #100 (Common Space Types:Corridor/Transition <8 ft wide)	114	0.44	50
Total Allowed Watts =			2190

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-APPARATUS BAY 2 #120 (Common Space Types:Emergency Vehicle Garage)				
A: A: LED:	0	12	100	1200
X: X: LED:	0	2	7	14
2-APPARATUS BAY 3 #130 (Common Space Types:Emergency Vehicle Garage)				
A: A: LED:	0	9	100	900
X: X: LED:	0	1	7	7
3-PUBLIC VESTIBULE #100 (Common Space Types:Corridor/Transition <8 ft wide)				
F: F: LED:	0	2	30	60
X: X: LED:	0	1	7	7
Total Proposed Watts =				2188

Proposed Interior Lighting Controls

Project Title: NJSEA Firehouse Garage
Data filename: Report date: 06/12/25
Page 1 of 7

Fixture Lighting Control

1-APPARATUS BAY 2 #120 (Common Space Types:Emergency Vehicle Garage)

A: A: LED: Local Control
X: X: LED: Local Control

2-APPARATUS BAY 3 #130 (Common Space Types:Emergency Vehicle Garage)

A: A: LED: Local Control
X: X: LED: Local Control

3-PUBLIC VESTIBULE #100 (Common Space Types:Corridor/Transition <8 ft wide)

F: F: LED: Local Control, Scheduled Shutoff
X: X: LED: Local Control

Interior Lighting PASSES: Design 0.1% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2022) Standard requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Project Title: NJSEA Firehouse Garage
Data filename: Report date: 06/12/25
Page 2 of 7

COMcheck Software Version COMcheckWeb
Exterior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2022) Standard
Project Title: NJSEA Firehouse Garage
Project Type: Addition
Exterior Lighting Zone: 3 (Other (L23))
Construction Site: Block:107.01, Lot 1
East Rutherford, New Jersey 07073
Owner/Agent: NJSEA
Designer/Contractor: Amin Gomaa
FPA
1800 Route 34
Wall Township, New Jersey 07719

Efficiency Packages

Description	Credit
Not applicable	

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
IN FRONT OF BAY 2 (Emergency services, loading area)	415 ft ²	0.26	No	108
ENTRANCE TO VESTIBULE #100 1 (Walkway >= 10 feet wide)	36 ft of	0.55	Yes	20
OUT FRONT OF BAY 3 (Emergency services, loading area)	821 ft ²	0.26	No	213
ENTRANCE TO VESTIBULE #100 (Pedestrian and vehicular entrances and exits)	45 ft of	14	Yes	630
Total Tradable Watts (a) =				650
Base Site Allowance (b) =				500
Total Allowed Watts =				971

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A base site allowance equal to 500 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
IN FRONT OF BAY 2 (Emergency services, loading area, 415 ft ²): Non-tradable Wattage				
C: C: LED:	0	2	67	134
D: D: LED:	0	1	36	36
ENTRANCE TO VESTIBULE #100 1 (Walkway >= 10 feet wide, 36 ft of walkway length): Tradable Wattage				
E: E: LED:	0	2	80	160
D: D: LED:	0	1	36	36
OUT FRONT OF BAY 3 (Emergency services, loading area, 821 ft ²): Non-tradable Wattage				
B: B: LED:	0	3	12	36
C: C: LED:	0	4	67	268
E: E: LED:	0	2	80	160

Project Title: NJSEA Firehouse Garage
Data filename: Report date: 06/12/25
Page 3 of 7

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
D: D: LED:	0	1	36	36
ENTRANCE TO VESTIBULE #100 (Pedestrian and vehicular entrances and exits, 45 ft of door width): Tradable				
D: D: LED:	0	1	36	36
Total Tradable Proposed Watts =				232

Proposed Exterior Lighting Controls

Fixture	Lighting Control
IN FRONT OF BAY 2 (Emergency services, loading area, 415 ft ²): Non-tradable Wattage	
C: C: LED:	Daylight Shutoff
D: D: LED:	Daylight Shutoff

ENTRANCE TO VESTIBULE #100 1 (Walkway >= 10 feet wide, 36 ft of walkway length): Tradable Wattage

E: E: LED: Daylight Shutoff
D: D: LED: Daylight Shutoff

OUT FRONT OF BAY 3 (Emergency services, loading area, 821 ft²): Non-tradable Wattage

B: B: LED: Daylight Shutoff
C: C: LED: Daylight Shutoff
E: E: LED: Daylight Shutoff
D: D: LED: Daylight Shutoff

ENTRANCE TO VESTIBULE #100 (Pedestrian and vehicular entrances and exits, 45 ft of door width): Tradable

D: D: LED: Daylight Shutoff

Exterior Lighting PASSES: Design 71% better than code

Exterior Lighting Compliance Statement

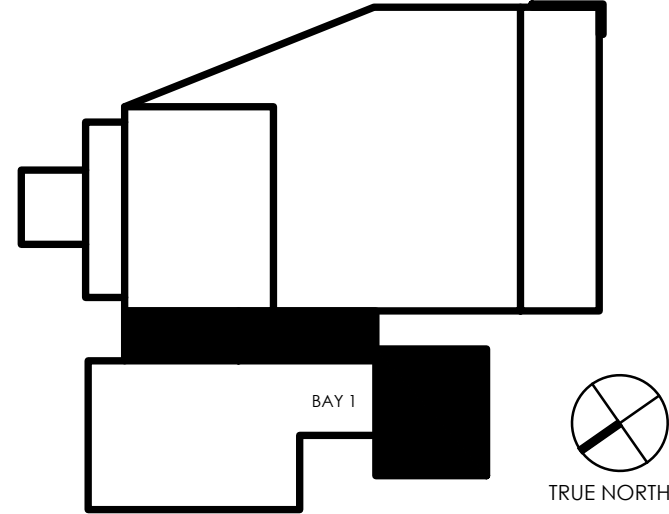
Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 90.1 (2022) Standard requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Project Title: NJSEA Firehouse Garage
Data filename: Report date: 06/12/25
Page 4 of 7



Department of Community Affairs
Construction Project Review
Project No: 1070-25
partial release
electric
Scott Borsos
Released: 7/2/2025
N.J.S.A. 52:27D-119 ET SEQ., AS AMENDED



CLIENT



PROJECT

NJSEA FIREHOUSE
GARAGE ADDITIONS
& RENOVATION

MEADOWLANDS SPORTS COMPLEX
East Rutherford, NJ 07073
Block:107.01 Lot: 1

STRUCTURAL / MEP / CIVIL CONSULTANT:



FRENCH & PARRELLO
ASSOCIATES
1800 NJ-34, Suite 101
WALL TOWNSHIP, NJ 07719
T: (732) 312-9800

New Jersey New York Pennsylvania Georgia

AMIN H. GOMAA, PE
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DWG

ENERGY
COMPLIANCE
SHEET

SCALE

DATE	DESCRIPTION	DRN	CHK
6/10/2025	DCA SUBMISSION		

REV

DATE	DESCRIPTION
1 6/28/2025	REVISED AS PER DCA COMMENTS

PROJECT NO.

SHEET NO.

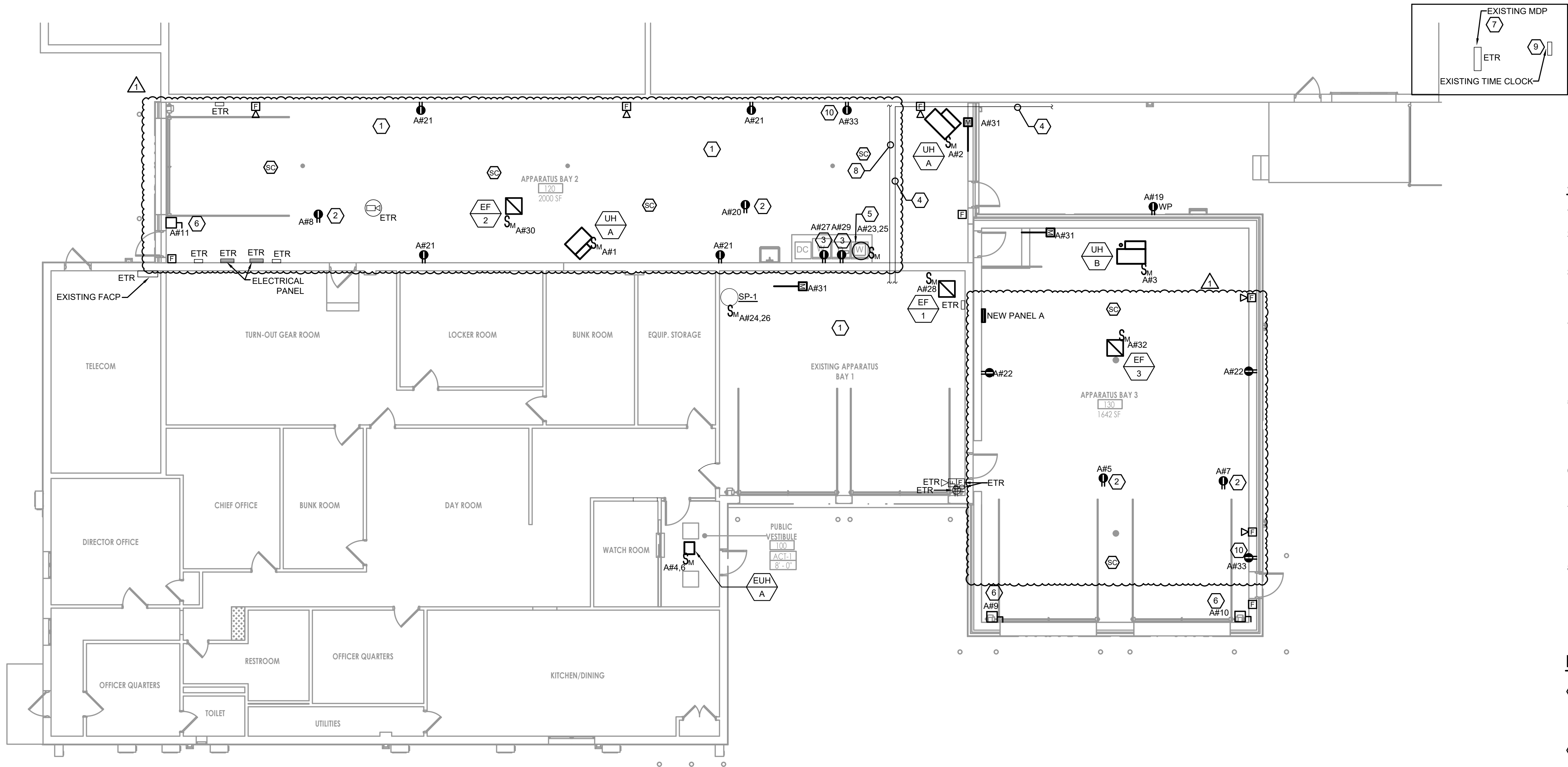
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POWER PLAN
SCALE: 1/8" = 1' - 0"

SHEET NOTES

1. PROTECT THE AREA OF WORK FROM ANY DAMAGE, DUST AND DEBRIS.
2. CONTRACTOR SHALL COORDINATE SCHEDULING WITH THE OWNER AND GENERAL CONTRACTOR TO COMPLY WITH THE OWNERS USAGE OF THE BUILDING.
3. IN ALL AREAS WHERE WORK IS BEING PERFORMED UNDER THIS CONTRACT, CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORTING ALL EXISTING ELECTRICAL DEVICES AND WIRING/CONDUIT ABOVE THE EXISTING CEILING(S), PER NEC.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER CARE OF ALL OWNER'S EQUIPMENT AND/OR FURNISHINGS WHICH ARE REQUIRED TO BE TEMPORARILY REMOVED, STORED OR RELOCATED. CONTRACTOR SHALL REPLACE, REPAIR OR REIMBURSE OWNER FOR ALL DAMAGES TO SUCH PROPERTIES AT FULL REPLACEMENT VALUE AND EQUIVALENCY. CONTRACTOR SHALL ADVISE OWNER FOR DISPOSITION OF REMOVED EQUIPMENT AND/OR MATERIALS.
5. CONTRACTOR SHALL PROVIDE AND INSTALL A LOCAL LOCKABLE DISCONNECT SWITCH BY EACH PIECE OF MOTORIZED OR PACKAGED EQUIPMENT. DISCONNECT AMPACITY RATING SHALL AT LEAST MATCH THAT OF THE UPSTREAM CIRCUIT BREAKER PROTECTING THE EQUIPMENT. INDOOR DISCONNECTS SHALL BE NEMA 1 TYPE AND OUTDOOR DISCONNECTS SHALL BE NEMA 3R TYPE.
6. CIRCUIT NUMBERS ARE INDICATED FOR INTENT ONLY. THE CONTRACTOR SHALL ADJUST ACCORDINGLY IN THE FIELD TO BALANCE CIRCUITS EVENLY ON ALL PHASES.
7. CONNECT THE NEW FIRE ALARM DEVICES TO THE EXISTING BUILDING FIRE ALARM SYSTEM. CONFIRM THAT ALL THE NEW FIRE ALARM DEVICES ARE SYNCHRONIZED WITH THE EXISTING FIRE ALARM DEVICES/SYSTEM. THE EXISTING FIRE ALARM CONTROL PANEL IS LOCATED IN TELCOM. THE FIRE ALARM CONTROL PANEL IS HONEYWELL XLS140.
8. CONTRACTOR SHALL CONFIRM THE HEIGHT OF ALL RECEPTACLES WITH THE ARCHITECTURAL DRAWINGS.

KEY NOTES

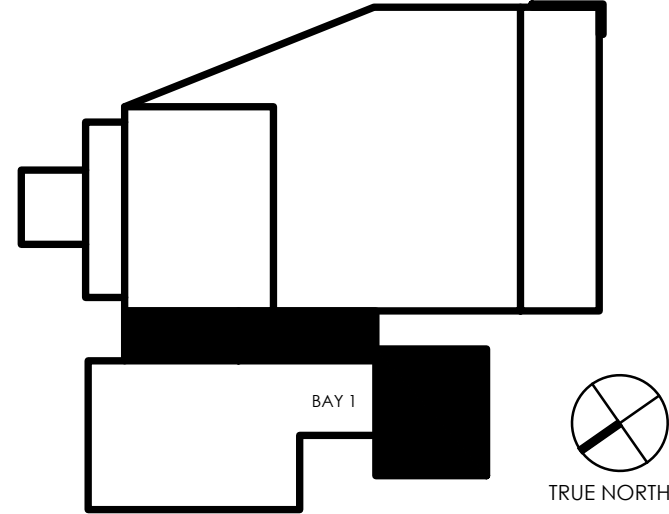
- ① ALL ELECTRICAL DEVICES JUNCTION BOXES, AND ASSOCIATED WIRING/CONDUIT THAT ARE TO REMAIN SHALL BE RELOCATED FOR CLEARANCE PURPOSES AND OR DUE TO THE REMOVAL OF WALLS IN THIS SPACE. ALL WIRING/CONDUIT SHALL BE RE-ROUTED AND EXTENDED. ALL WIRING SHALL BE EXTENDED USING THE EXISTING WIRE SIZE.
- ② PROVIDE A CEILING MOUNTED RECEPTACLE FOR CORD REELS. COORDINATE THE EXACT LOCATION WITH THE ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL PROVIDE ULNINE RETRACTABLE CORD REELS MODEL#H-5644.
- ③ REUSE THE WIRING THAT WAS SAFED OFF DURING DEMOLITION TO CONNECT THE RECEPTACLES FOR THE EXISTING WASHER AND DRYER. EXTEND THE WIRING/CONDUIT AS REQUIRED USING THE EXISTING WIRE SIZE.
- ④ RE-ROUTE AND EXTEND ALL EXTERIOR CONDUIT/WIRING AS REQUIRED DUE TO THE RENOVATIONS. EXTEND THE WIRING USING THE EXISTING WIRE SIZE. PROVIDE (1) 3" CONDUIT WITH 4#350MC & #2GND. PROVIDE (1) 2" CONDUIT WITH #4/0 & #4 GND.
- ⑤ NEW EWH. REFER TO PANEL SCHEDULE FOR WIRE SIZE.
- ⑥ PROVIDE A 120V DISCONNECT SWITCH FOR THE OVER HEAD DOOR. REFER TO PANEL SCHEDULES FOR WIRE INFORMATION.
- ⑦ APPROXIMATE LOCATION OF MDP LOCATED IN THE ELECTRIC ROOM. PROVIDE A NEW FEEDER AND CONDUIT FROM EXISTING MDP TO CONNECT TO NEW PANEL A. NEW PANEL A IS APPROXIMATELY 180 FEET FROM THE EXISTING MDP. REFER TO THE PANEL SCHEDULES FOR FEEDER SIZE.
- ⑧ PROVIDE (3) 1" CONDUIT WITH #4/0 & #8 GND.
- ⑨ APPROXIMATE LOCATION OF TIME CLOCK LOCATED IN THE ELECTRIC ROOM.
- ⑩ PROVIDE A RECEPTACLE FOR THE CO NOx MONITORING SYSTEM. REFER TO THE PANEL SCHEDULE FOR WIRING INFORMATION.



Department of Community Affairs
Construction Project Review
Project No: 1070-25

partial release
electric
Scott Borsos

Released: 7/2/2025
N.J.S.A. 52:27D-119 ET SEQ., AS AMENDED



CLIENT



PROJECT

NJSEA FIREHOUSE GARAGE ADDITIONS & RENOVATION

MEADOWLANDS SPORTS COMPLEX
East Rutherford, NJ 07073
Block:107.01 Lot: 1

STRUCTURAL / MEP / CIVIL CONSULTANT:



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ELECTRICAL POWER PLAN

SCALE

DATE	DESCRIPTION	DRN	CHK
6/10/2025	DCA SUBMISSION		

REV	DATE	DESCRIPTION
1	6/28/2025	REVISED AS PER DCA COMMENTS

PROJECT NO.

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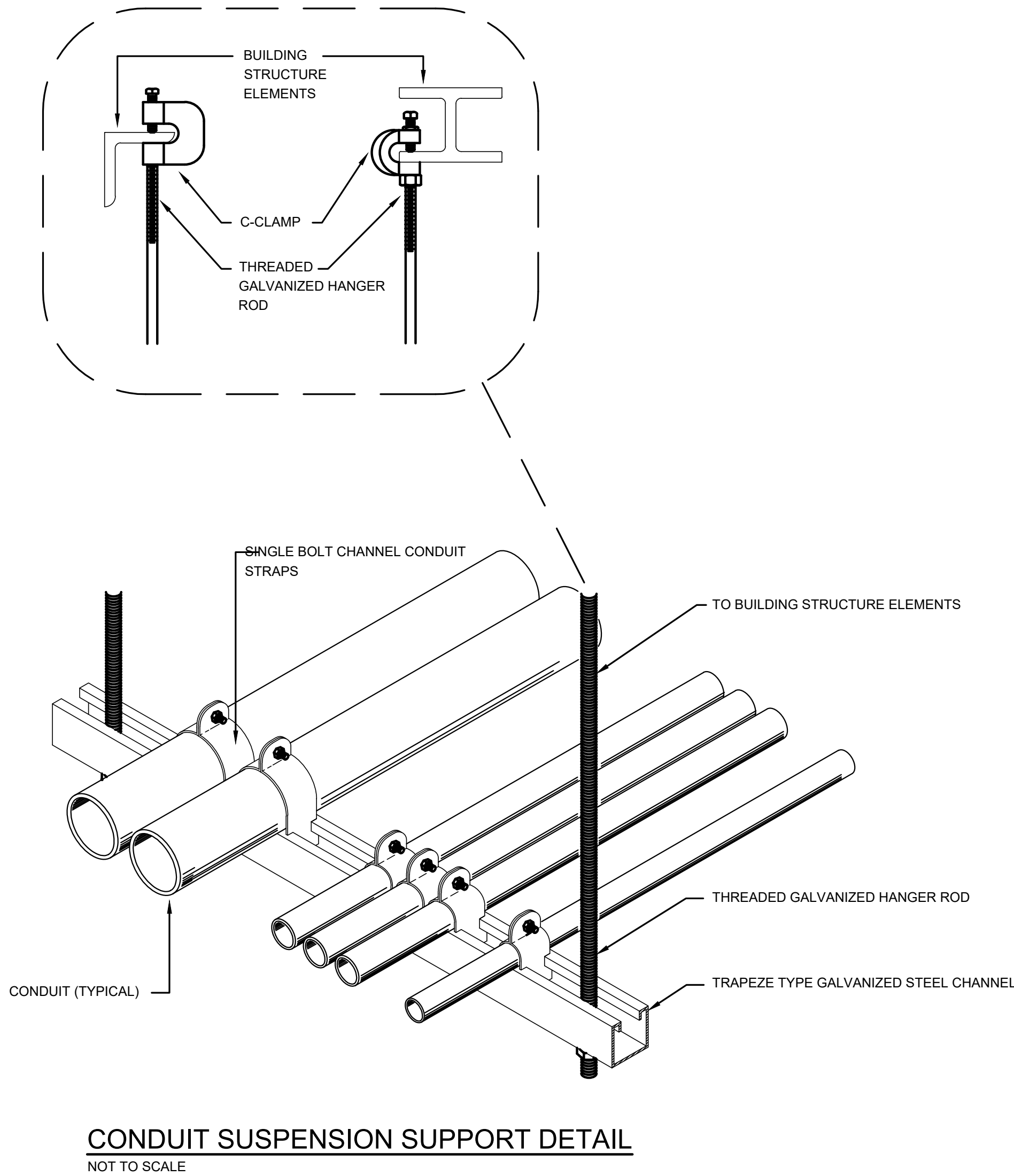
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LIGHT FIXTURE SCHEDULE										
TYPE	SYMBOL	DESCRIPTION	MANUFACTURER	CATALOG NO.	LAMPS	BALLAST		VOLTS	TOTAL WATTAGE	MOUNTING
						TYPE	QTY			
A		HIGH BAY LED	NICOR	HBC-5-150S-U-S-8-BK MOUNTING:HBC4100-200YOKE EMERGENCY:EMB4002UNVBK	LED	L	1	UNV	150	PENDANT
B		EXTERIOR VAPOR PROOF LIGHT	RAB	VXRGB-12-RED-DN FINISH: NATURAL SHOT	LED	L	1	UNV	12	SURFACE
C		EXTERIORLED LINEAR SURFACE MOUNT FIXTURE	IN - STRIP SQUARE *	SS-1284-67-20-IG-3K-UNV-EA24 BRACKET: -1045-IG	LED	L	1	UNV	67	BRACKET
D		EXTERIOR LED BUILDING MOUNTED FIXTURE	IN - MIMIK 30	M30-M-36-T4-IG-3K-UNV-NA EMERGENCY:M30-M-36-T4-IG-3K- UNV-NA-REM	LED	E	1	UNV	36	SURFACE
E		EXTERIOR LED WALL PACK FIXTURE	IN - SHIELD+2	SH2-80-IG-3K-UNV-0/10V	LED	E	1	UNV	80	SURFACE
F		2X2' LAY IN LED	MINDSET	PTF-22-R-G-D-8035-E-M EMERGENCY:PTF-22-R-G-D-8035-E-M- B1-MJM1	LED	E	1	UNV	30	LAY IN
G		EXIT LIGHT	ISOLITE	RL-EM-R-U-WH-MTEB	LED	E	1	UNV	7	SURFACE
NOTES:				BALLAST TYPES		EMERGENCY FIXTURES				
1. VERIFY ALL CEILING TYPES PRIOR TO ORDERING FIXTURES				L LED DRIVER		 FIXTURES DESIGNATED WITH A "1/2 SHADE" OR "FULL SHADE" AND ALL EXIT SIGNS SHALL HAVE AN EMERGENCY BATTERY PACK, UNLESS SPECIFICALLY NOTED OTHERWISE. BATTERY SHALL BE ABLE TO OPERATE LED FIXTURES FOR MINIMUM 90 MINS.				
2. VERIFY ALL OPERATING VOLTAGES PRIOR TO ORDERING FIXTURES										
3. COORDINATE THE HEIGHT OF ALL SUSPENDED FIXTURES WITH THE OWNER, ARCHITECT, AND ENGINEER PRIOR TO INSTALLATION										
4. ALL LAMPS SHALL HAVE A COLOR TEMPERATURE OF 3500 DEG. KELVIN AND A CRI OF 85 UNLESS SPECIFICALLY NOTED OTHERWISE										

SENSOR SCHEDULE					
SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.	MOUNTING	NOTES
CS	OCCUPANCY SENSOR - 360 DEGREE	WATTSTOPPER	LMPC-100	CEILING	DIGITAL PASSIVE IR
SD	DIGITAL WALLBOX DIMMING SWITCH	WATTSTOPPER	LMDM-101	WALL	IR TRANSCIEVER, (2) RJ45 PORT
RD ^A	DIGITAL ON/OFF/0-10V DIMMING ROOM CONTROLLER	WATTSTOPPER	LMRC-211	ABOVE CEILING	0-10V, NOTES 1,2
RD ^B	DIGITAL ON/OFF ROOM CONTROLLER	WATTSTOPPER	LMRC-101/102	ABOVE CEILING	LINE VOLTAGE, NOTES 1,2
NOTES:					
1. REFER TO ELECTRICAL SPECIFICATIONS AND ADDITIONAL REQUIREMENTS WHICH MAY NOT NECESSARILY BE REFLECTED IN CATALOG					
2. NUMBER AND/OR DESCRIPTION IN THE SCHEDULE.					
3. CONTRACTOR SHALL PROVIDE THE APPROPRIATE NUMBER OF ROOM CONTROLLERS FOR THE PROJECT. COORDINATE WITH THE MANUFACTURER FOR THE CORRECT QUANTITY.					
4. CONTRACTOR SHALL PROVIDE 4"x4" JUNCTION BOX AS REQUIRED. SEE DETAILS ON DRAWING E-500.00					



MDP (EXISTING)										
POLE	LOAD KVA	BKRL	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	BKRL	LOAD KVA	POLE
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38
39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40
41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41
42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42
43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43
44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45
46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46
47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47
48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48
49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49
50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50
51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51
52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52
53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53
54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54
55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55
56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56
57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57
58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58
59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60
TOTAL CONNECTED LOAD: 31.9 KVA, 88.7 AMPS										

JOB NAME: NISNA FIREHOUSE											JOB NO: 18704-018										
RATES: 209.120V, 3 PH, 4W, 225A											LOCATION: APPARATUS BAY 3										
CIRCUIT			CIRCUIT			A (NEW)			CIRCUIT			CIRCUIT			CIRCUIT			CIRCUIT			
NO.	DESCRIPTION	POLE	LOAD KVA	BKR	BRANCH CIRCUIT	A	B	C	BRANCH CIRCUIT	BKR	LOAD KVA	POLE	DESCRIPTION	NO.	DESCRIPTION	POLE	LOAD KVA	BKR	BRANCH CIRCUIT	NO.	
1	1#1A	1	0.5	20	2#12 & 1#12EG IN 3/4"	1.7			2#12 & 1#12EG IN 3/4"	20	1.2	1	1#1B	4						4	
2	1#1A	1	1.2	20	2#12 & 1#12EG IN 3/4"	2.0	2.3	2.7	2#12 & 1#12EG IN 3/4"	20	1.7	2	1#1B	4						4	
3	RECEPTACLES-CORD REEL	1	1.0	20	2#12 & 1#12EG IN 3/4"				2#12 & 1#12EG IN 3/4"	20	1.0	1	1#1B	4						4	
7	RECEPTACLES-CORD REEL	1	1.0	20	2#12 & 1#12EG IN 3/4"	2.0			2#12 & 1#12EG IN 3/4"	20	1.0	1	RECEPTACLES-CORD REEL	8						8	
9	OVERHEAD CORD	1	1.0	20	2#12 & 1#12EG IN 3/4"				2#12 & 1#12EG IN 3/4"	20	1.0	1	OVERHEAD CORD	10						10	
10	OVERHEAD CORD	1	1.2	20	2#12 & 1#12EG IN 3/4"			2.3	2#12 & 1#12EG IN 3/4"	20	0.9	1	LIGHTING-APPARATUS BAY 2	12						12	
11	LIGHTING-APPARATUS BAY 2	1	0.8	20	2#12 & 1#12EG IN 3/4"				2#12 & 1#12EG IN 3/4"	20	1.2	1	LIGHTING-APPARATUS BAY 2	14						14	
15	EXTERIOR LIGHTING-WAREHOUSE	1	0.5	20	2#12 & 1#12EG IN 3/4"				2#12 & 1#12EG IN 3/4"	20	0.5	1	EXTERIOR LIGHTING-WAREHOUSE	16						16	
16	EXTERIOR LIGHTING-WAREHOUSE	1	0.5	20	2#12 & 1#12EG IN 3/4"			0.6	2#12 & 1#12EG IN 3/4"	20	0.2	1	LIGHTING-VESTIBULE	18						18	
19	RECEPTACLES-EXTERIOR	1	0.3	20	2#12 & 1#12EG IN 3/4"				2#12 & 1#12EG IN 3/4"	20	1.2	1	RECEPTACLES-CORD REEL	20						20	
20	RECEPTACLES-APPARATUS BAY 3	1	0.5	20	2#12 & 1#12EG IN 3/4"				2#12 & 1#12EG IN 3/4"	20	1.5	1	RECEPTACLES-APPARATUS BAY 3	22						22	
23	EWI#	2	3.0	35	3#8 & 1#12EG IN 3/4"			3.4	2#12 & 1#12EG IN 3/4"	15	0.4	2	SP-1	24						24	
24	WASHER	1	1.0	20	2#12 & 1#12EG IN 3/4"				2#12 & 1#12EG IN 3/4"	20	1.0	1	SP-2	25						25	
25	DRYER	1	1.0	20	2#12 & 1#12EG IN 3/4"			2.0	2#12 & 1#12EG IN 3/4"	20	1.0	1	SP-3	26						26	
31	MOTORIZED DAMPERS	1	1.0	20	2#12 & 1#12EG IN 3/4"	1.0	0.0	0.0	2#12 & 1#12EG IN 3/4"	20	1.0	1	SP-3	32						32	
33	CORNER PAPER	1	0.3	20	2#12 & 1#12EG IN 3/4"								SP-4	34						34	
35	SPACE							0.0					SPACE	36						36	
37	SPACE							0.0					SPACE	38						38	
39	SPACE							0.0					SPACE	40						40	
41	SPACE							0.0					SPACE	42						42	
PANEL TYPE: NEMA-1						TOTAL (PHASE):					11.8	9.4	10.7								
MOUNTING: 18"																					
MAIN CIRCUIT BREAKER: 225A						TOTAL CONNECTED LOAD:					31.9	KVA									
TRANSFORMER: 225V/240V																					
FED FROM: EXISTING MD																					
NOTES																					
1. ALL BUSING TO BE COPPER																					
2. BOLT ON BRACKETS ONLY																					
3. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE SHORT CIRCUIT RATING PRIOR TO PURCHASING ANY EQUIPMENT.																					
4. ALL WIRE SIZES ARE BASED ON 75 DEGREE WIRE.																					
5. SHORT CIRCUIT RATING: PANEL SHALL BE FLA Y RATED TO INTERRUPT SYMMETRICAL SHORT CIRCUIT CURRENT AVAILABLE AT TERMINALS.																					

FIRE PROTECTION GENERAL NOTES

- DO NOT SCALE FROM THESE DRAWINGS.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE AND ADOPTED REGULATIONS INCLUDING BUT NOT LIMITED TO NFPA REQUIREMENTS, NATIONAL CITY, STATE, LOCAL CODES AND ORDINANCES WHICH MAY BE IN EFFECT. ALL FIRE PROTECTION MATERIALS, INSTALLATION PROCEDURES AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION. THE FIRE PROTECTION CONTRACTOR SHALL OBTAIN FIRE SPRINKLER PERMIT/FILE THE SHOP DRAWINGS AND HYDRAULIC CALCULATIONS WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS INSTALLATION.
- THE DRAWINGS HAVE BEEN PRODUCED ENTIRELY ON FPA CADD SYSTEM. ANY OTHER LETTERING, LINES OR SYMBOLS, OTHER THAN PROFESSIONAL STAMPS AND SIGNATURES, HAVE BEEN MADE WITHOUT THE AUTHORIZATION OF FPA AND ARE INVALID.
- REPRODUCTION OF ANY PORTION OF THE CONTRACT DRAWINGS FOR RESUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.
- SHOP DRAWINGS BEARING THE APPROVAL OF THE INSURANCE UNDERWRITER SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE BEFORE ANY WORK IS STARTED.
- IF THERE ARE ANY QUESTIONS CONCERNING WHAT THE INSURANCE UNDERWRITER WILL REQUIRE IN ORDER TO APPROVE THE COMPLETED INSTALLATION (PIPING SIZING, LOCATION OF RISERS, TEST STATIONS, HYDRANTS, ALARMS, ETC.) THE BIDDER SHALL CONSULT WITH THE INSURANCE UNDERWRITER BEFORE SUBMITTING HIS BID. FAILURE TO CONSULT WITH THE INSURANCE UNDERWRITER DOES NOT RELIEVE THIS CONTRACTOR FROM HIS RESPONSIBILITY BY THE COMPLETION OF ANY AND ALL WORK REQUIRED WITH NO EXTRA CHARGES TO THE OWNER.
- FURNISH AND LABOR, MATERIALS AND EQUIPMENT REQUIRED FOR A COMPLETE FIRE SUPPRESSION SYSTEM WHERE SHOWN ON DRAWINGS AND REQUIRED BY NFPA 13 AND LOCAL AUTHORITIES.
- THE CONTRACTOR SHALL RUN A CERTIFIED FLOW TEST AS REQUIRED BY NFPA 13, APPENDIX B TO DETERMINE THE ADEQUACY OF THE WATER PRESSURE. PRIOR TO BID, COORDINATE WITH ARCHITECT/ENGINEER IF RESIDUAL WATER PRESSURE IS LOWER THAN THE DESIGN PRESSURE SPECIFIED ON DRAWINGS. PROVIDE ALTERNATE PRICE FOR A WATER PRESSURE BOOSTER SYSTEM IF REQUIRED.
- THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, DETAILED CONSTRUCTION DRAWINGS AND HYDRAULIC CALCULATIONS TO THE ENGINEER AND FIRE SUB-CODE OFFICIAL, PRIOR TO THE INSTALLATION OF ANY EQUIPMENT. OBTAIN CERTIFICATE OF INSPECTION AND APPROVAL FROM THE SAME AGENCY HAVING JURISDICTION AFTER INSTALLATION. FIRE SUPPRESSION CONSTRUCTION DRAWINGS SHALL BE SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE AREA WHERE THE PROJECT IS LOCATED.
- CONTRACTOR MUST VISIT THE SITE TO DETERMINE THE FULL EXTENT OF THE EXISTING FIRE PROTECTION WORK AND EXISTING CONDITIONS, BECOME FAMILIAR WITH THE DISCONNECTIONS, REMOVAL, RELOCATIONS, AND/OR RECONNECTIONS OF EXISTING FIRE PROTECTION EQUIPMENT REQUIRED. NO EXTRA COMPENSATION SHALL BE PROVIDED FOR LACK OF SUCH DETERMINATION, FAMILIARIZATION, AND/OR ALLOWANCE.
- PRIOR TO CONSTRUCTION, FIRE PROTECTION CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND NOTIFY ARCHITECT/OWNER OF CONFLICTS OR CONDITIONS WHICH INTERFERE WITH REQUIREMENTS ON THESE DOCUMENTS.
- UNLESS INDICATED OTHERWISE, DISCONNECT AND REMOVE ALL EXISTING FIRE PROTECTION COMPONENTS NOT INTENDED TO BE REUSED.
- CONTRACTOR RESPONSIBLE TO COORDINATE WITH MECHANICAL CONTRACTOR.
- SPRINKLER HEADS SHALL NOT INTERFERE WITH LIGHTING FIXTURES, SPEAKERS, AIR CONDITIONING DIFFUSERS AND GRILLES, ETC. COORDINATE WITH ARCHITECT'S REFLECTED CEILING PRIOR TO SUBMITTING SHOP DRAWING.
- THE FIRE PROTECTION DRAWINGS ARE INTENDED TO INDICATE, ONLY DIAGRAMMATICALLY, THE EXTENT AND THE GENERAL CHARACTER AND LOCATIONS OF THE WORK INCLUDED.
- COORDINATE ALL FIRE SPRINKLER WORK WITH ARCHITECTURAL REFLECTED CEILING PLANS AND OTHER TRADES. SPRINKLER SHALL BE LOCATED IN CENTER OF CEILING TILE OR IN QUARTER POINT OF 4' DIMENSION AND CENTER OF 2' DIMENSION.
- ALL NEW SPRINKLER PIPING SHALL BE SEISMICALLY BRACED AND PITCHED FOR DRAINAGE.
- FIRE SPRINKLER SYSTEMS NOT ASSOCIATED WITH THE DEMOLITION SHALL BE LEFT IN SERVICE.
- ALL CONNECTIONS TO EXISTING BUILDING SERVICES SHALL BE CAREFULLY COORDINATED WITH THE UTILITY COMPANY AND THE OWNER'S SCHEDULE. SERVICE WORK OF THIS NATURE TO OCCUR DURING UNOCCUPIED BUILDING HOURS. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL EXISTING EQUIPMENT IS OPERATIONAL AFTER ANY SHUTDOWN OCCURS.
- CHANGES OR SUBSTITUTIONS OF EQUIPMENT WILL NOT BE ALLOWED WITHOUT SPECIFIC WRITTEN APPROVAL FROM THE ARCHITECT OR ENGINEER. ALL COSTS RESULTING FROM THE SELECTION OF OTHER THAN SPECIFIED EQUIPMENT SHALL BE BORNE BY THE CONTRACTOR, INCLUDING, BUT NOT LIMITED TO WORK AFFECTING OTHER CONTRACTORS, THE OWNER, OR RE-DESIGN ISSUES.
- ALL INDICATED WORK SHALL BE PERFORMED BY THE FIRE PROTECTION CONTRACTOR UNLESS OTHERWISE NOTED.
- DO NOT USE ANY PART OF THE OWNER'S BUILDING AS A SHOP, EXCEPT PARTS DESIGNATED FOR SUCH PURPOSES BY THE OWNER.
- ALL CONTRACT WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE WRITTEN SPECIFICATIONS FOR THIS PROJECT WHICH ARE CONSIDERED TO BE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS. ALL CONTRACTORS AND SUBCONTRACTORS SHALL MAINTAIN (AT THE JOB SITE) AND REFER TO COPIES OF THE WRITTEN SPECIFICATIONS AS PART OF THESE DRAWINGS. REFER TO THE WRITTEN SPECIFICATIONS IN CONJUNCTION WITH THE PLANS FOR FULL PROJECT SCOPE. IN ALL CASES OF DISCREPANCY BETWEEN PLANS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN AND WHERE IT IS UNCLEAR, SUCH CASES SHALL BE REFERRED TO THE ENGINEER FOR ADJUDICATION.
- ANY DISCREPANCIES OR INADEQUACIES WITHIN THESE BID DOCUMENTS OR BETWEEN THESE BID DOCUMENTS AND RELATED HVAC, ELECTRICAL, FIRE PROTECTION, ARCHITECTURAL, INTERIOR DECOR AND FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR ENGINEER PRIOR TO BID SUBMISSION.
- THE FIRE PROTECTION CONTRACTOR SHALL REVIEW THESE PLANS AND SPECIFICATIONS, AS WELL AS THE RELATED HVAC, ELECTRICAL, ARCHITECTURAL, INTERIOR DECOR AND SITE ENGINEERING DRAWINGS TO BECOME FAMILIAR WITH THE FULL PROJECT SCOPE. DURING THE COURSE OF CONSTRUCTION COORDINATION AND ACTUAL CONSTRUCTION, THE FIRE PROTECTION CONTRACTOR SHALL COOPERATE WITH ALL OTHER CONTRACTORS AND TRADES ON THIS PROJECT TO ENSURE A SMOOTH RUNNING AND CAREFULLY COORDINATED INSTALLATION.
- CONTRACTOR SHALL COORDINATE HIS SCHEDULING WITH THE OWNER AND GENERAL CONTRACTOR TO COMPLY WITH THE OWNERS USAGE OF THE BUILDING.
- IF ANY UNEXPECTED DISCOVERY OF SUSPECTED HAZARDOUS MATERIALS IS MADE DURING THE COURSE OF WORK, THE CONTRACTOR SHALL REPORT THE DISCOVERY IMMEDIATELY TO THE OWNER. THE CONTRACTOR SHALL STOP ANY WORK THAT MAY DISTURB THE SUSPECTED HAZARDOUS MATERIAL. CONTRACTOR SHALL RESUME WORK AFTER ALL HAZARDOUS MATERIAL HAS BEEN REMEDIATED.
- CONTRACTOR RESPONSIBLE FOR THE PROPER CARE OF ALL OWNER'S EQUIPMENT AND/OR FURNISHINGS WHICH ARE REQUIRED TO BE TEMPORARILY REMOVED, STORED OR RELOCATED. CONTRACTOR SHALL REPLACE, REPAIR OR REIMBURSE OWNER FOR ALL DAMAGES TO SUCH PROPERTIES AT FULL REPLACEMENT VALUE AND EQUIVALENCY. CONTRACTOR SHALL ADVISE OWNER FOR DISPOSITION OR REMOVED EQUIPMENT AND/OR MATERIALS.
- CONTRACTOR'S WORK MAY BE REQUIRED OUTSIDE OF DESIGNATED SPACE. ALL SYSTEMS BEING DEMOLISHED AND REMOVED, MODIFIED, AND/OR TERMINATED SHALL BE FIELD VERIFIED TO INSURE NO WORK OR REMOVED, INSIDE OR OUTSIDE OF THE DESIGNATED SPACE. SHALL DISRUPT ANY SERVICE OR SYSTEMS OF ANY OTHER AREAS. IF ANY CONDITIONS ARISE THAT ARE NOT IDENTIFIED ON DRAWINGS, IMMEDIATE NOTIFICATION SHALL BE PROVIDED TO THE ENGINEER OR OWNER. NO WORK SHALL PROCEED WITHOUT APPROVALS FROM ENGINEER OR OWNER.

- DRAWINGS ARE DIAGRAMMATIC IN NATURE AND MAY HAVE TO BE ADAPTED TO COMPLY WITH BUILDING CONDITIONS. CONTRACTOR SHALL SUBMIT FIRE PROTECTION SHOP DRAWINGS, INDICATING LOCATIONS, AND ROUTING OF DUCTS, PIPING, AND WIRING.
- PIPING SHOWN ON DRAWINGS SHOW THE GENERAL RUN AND CONNECTIONS AND MAY OR MAY NOT IN ALL PARTS BE SHOWN IN ITS EXACT POSITION. CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTING THE PIPING SUITABLE IN EVERY RESPECT FOR THE WORK. PIPING SHALL BE INSTALLED SO THAT CLEARANCE, CLEARANCE, HEADROOM AND PITCH ARE MAINTAINED. CONTRACTORS OF THE VARIOUS TRADES SHALL COORDINATE THE INSTALLATION.
- ALL CONTRACTORS SHALL PROVIDE CUTTING AND PATCHING FOR THEIR RESPECTIVE TRADES.
- REMOVE AND REINSTALL CEILING SYSTEM AS REQUIRED FOR THE INSTALLATION OF FIRE PROTECTION WORK AND REPLACE IN KIND ANY COMPONENTS DAMAGED BY PERSONNEL OR EQUIPMENT DURING PERFORMANCE OF THE WORK. PATCH AND REPAIR ALL DAMAGE CAUSED BY REMOVAL, MATCH EXISTING ADJACENT SURFACES.
- ALL SPRINKLER PIPING TO RUN AS HIGH AS POSSIBLE. ALL MAINS SHALL BE RUN TIGHT TO STEEL. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR.
- ALL EXPOSED HORIZONTAL AND VERTICAL PIPING SHALL BE INSTALLED IN A NEAT ARRANGEMENT IN LOCATIONS WHICH ARE THE MOST INCONSPICUOUS. VERTICAL DROPS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AND THEIR FINAL LOCATIONS SHALL BE COORDINATED AND RUN WITHIN CHASES, WALLS, SOFFITS WITH OTHER MECHANICAL/ELECTRICAL FEEDS. ALL SUCH LOCATIONS ARE TO BE REVIEWED WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
- ALL PIPING SYSTEM PENETRATIONS OF FIRE-RATED WALLS AND FLOOR SHALL BE SEALED WITH UL APPROVED FIRE RESISTANT JOINT SEALER, SPECIFIED TECHNOLOGIES "PENBIL 200" OR EQUAL, TWO-PART FOAMED-IN-PLACE SILICONE SEALANT. FIRE RESISTANT SEALER SHALL BE TESTED IN ACCORDANCE WITH ASTM 814. INSTALL SEALANT, INCLUDING FORMING, PACKING AND OTHER ACCESSORY MATERIALS TO FILL OPENINGS WHERE FIRE-RATED WALL PENETRATIONS OCCUR. COMPLY WITH INSTALLATION REQUIREMENTS ESTABLISHED BY TESTERS AND INSPECTION AGENCY.
- ALL CONTRACTORS REMOVING ANY EQUIPMENT, PIPES, DUCTS, CONDUITS, ETC. SHALL PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.
- THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE TEST CONNECTION.
- REFER TO SPECIFICATIONS FOR SPRINKLER HEAD AND ESCUTCHEON FINISHES AND COLORS.
- THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE A COMPLETE SET OF "AS-BUILT" DRAWINGS INDICATING THE PRECISE LOCATION OF ALL SYSTEMS, EQUIPMENT CONCEALED OR EMBEDDED PIPES, PIPE CONNECTIONS AND ACCESS DOORS. THESE PLANS SHALL ALSO INCLUDE ALL CHANGES AND DEVIATIONS FROM BID DOCUMENTS.
- GUARANTEE ALL WORK, MATERIAL AND EQUIPMENT FOR A PERIOD OF ONE (1) YEAR FROM DATE OF CERTIFICATE OF OCCUPANCY.

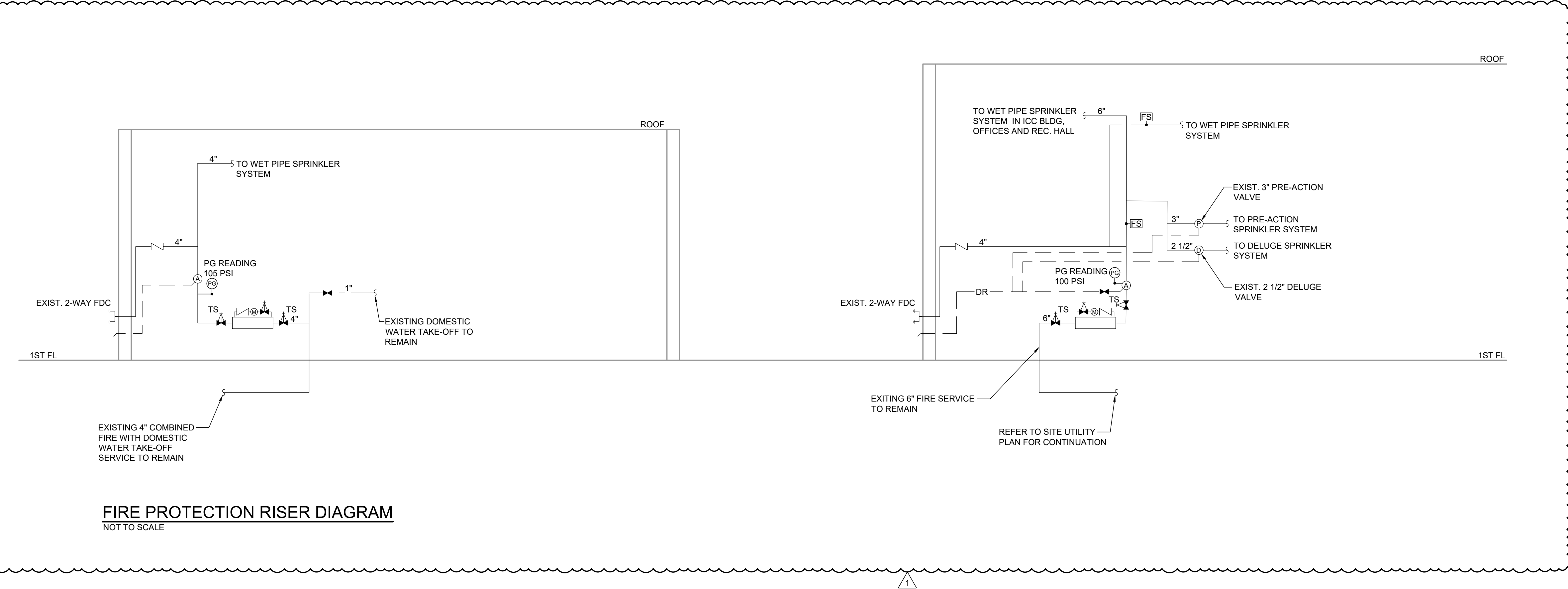
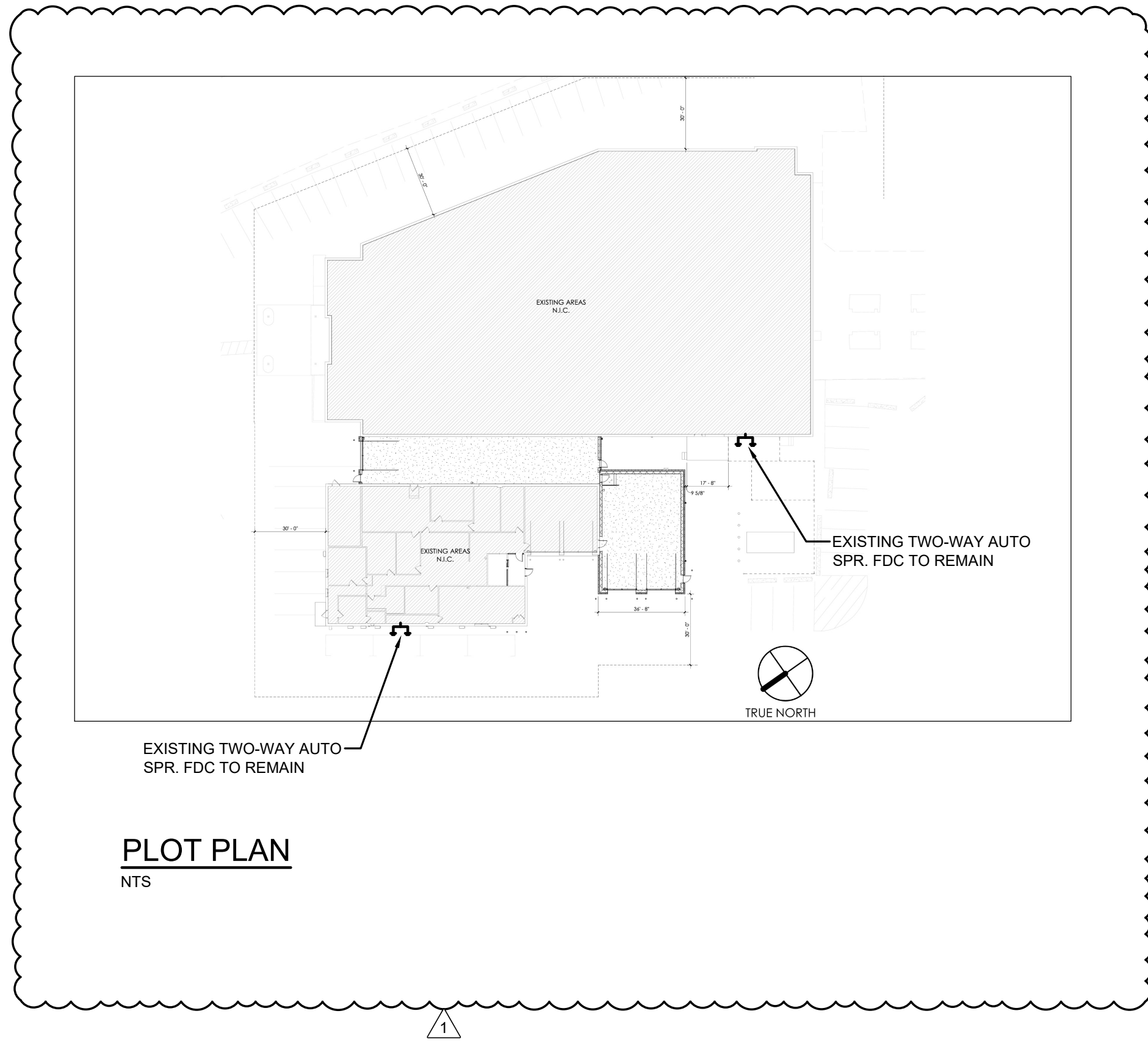
FIRE PROTECTION LEGEND	
	MATCH EXISTING MAKE AND MODEL, K-FACTOR AND RESPONSE.
	MATCH EXISTING MAKE AND MODEL, K-FACTOR AND RESPONSE.
	FIRE DEPARTMENT CONNECTION
	OS&Y VALVE WITH TAMPER SWITCH
	CHECK VALVE
	FLOW SWITCH
	TAMPER SWITH
	PRESSURE GAUGE
	ALARM CHECK VALVE
	DELUGE VALVE
	PRE-ACTION VALVE
	DRAIN PIPING

APPLICABLE CODES:

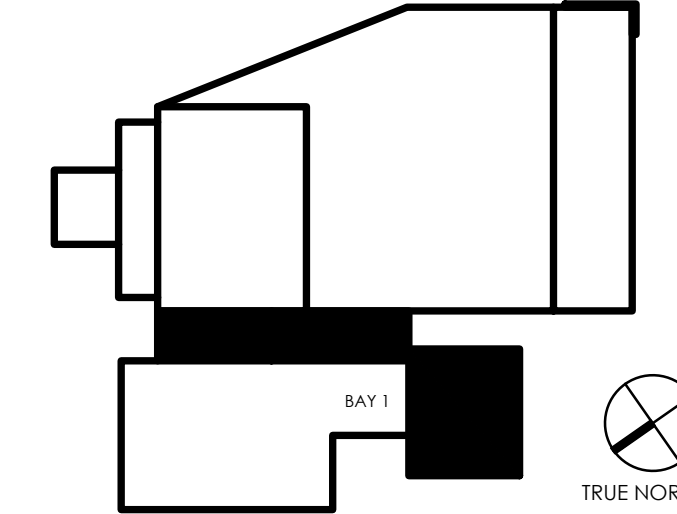
- ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST CODES AND SUBCODES AS ADOPTED BY THE STATE OF NEW JERSEY:
- NEW JERSEY UNIFORM CONSTRUCTION CODE (NUCC)
 - 2021 INTERNATIONAL BUILDING CODE - NJ EDITION
 - 2020 NATIONAL ELECTRICAL CODE
 - 2021 NATIONAL STANDARD PLUMBING CODE
 - 2021 INTERNATIONAL MECHANICAL CODE
 - 2021 INTERNATIONAL FUEL GAS CODE
 - 2019 ASHRAE 90.1 ENERGY CONSERVATION CODE
 - 2019 NFPA 13
 - REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION

DESIGN CRITERIA:

- FIRE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED BASED ON THE DESIGN CRITERIA INDICATED ON THE FLOOR PLANS.
 - THE CONTRACTOR SHALL RUN A CERTIFIED FLOW TEST AS REQUIRED BY NFPA 13, APPENDIX B TO DETERMINE THE ADEQUACY OF THE WATER PRESSURE. COORDINATE WITH ARCHITECT/ENGINEER IF RESIDUAL WATER PRESSURE IS LOWER THAN THE DESIGN PRESSURE SPECIFIED ON DRAWING.
- FLOW TEST:
TEST DATE: _____
STATIC PRESSURE: _____ PSI
RESIDUAL PRESSURE: _____ PSI
FLOW: _____ GPM
- SPRINKLER HEADS SHALL HAVE A 1/2" NOMINAL ORIFICE AND A TEMPERATURE RATING OF 165°F.
 - ALL DROP NIPPLES SHALL BE 1" UNLESS OTHERWISE NOTED.
 - BUILDING SEISMIC CATEGORY 'C'.



KEY PLAN



CLIENT



PROJECT

NJSEA FIREHOUSE GARAGE ADDITIONS & RENOVATION

MEADOWLANDS SPORTS COMPLEX
East Rutherford, NJ 07073
Block:107.01 Lot: 1

STRUCTURAL / MEP / CIVIL CONSULTANT:



AMIN H. GOMAA, PE
PROFESSIONAL ENGINEER, NJ LIC. NO. 246E04842100



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NCARB ARCHITECTURAL REGISTRATION BOARD

FIRE PROTECTION LEGEND, ABBREVIATIONS & GENERAL NOTES

SCALE



REV	DATE	DESCRIPTION
1	6/28/2025	REVISED AS PER DCA COMMENTS

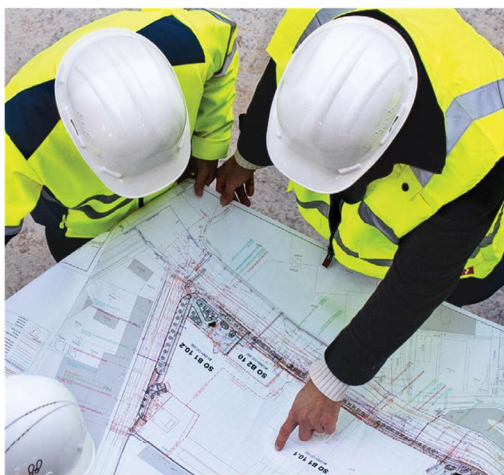
PROJECT NO.	SHEET NO.
5669	FP1.0

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Report of Subsurface Exploration & Geotechnical Engineering Assessment

NJSEA Fire House

Borough of East Rutherford, Bergen County, New Jersey



Mr. John Duffy
NJSEA
50 State Route 120
East Rutherford, New Jersey 07073



1800 Route 34, Suite 101
Wall Township, New Jersey 07719
T: 732.312.9800
F: 732.312.9801
fpaengineers.com

May 16, 2025

Mr. John Duffy
NJSEA
50 State Route 120
East Rutherford, New Jersey 07073

Re: Results of Subsurface Exploration
& Geotechnical Engineering Assessment
NJSEA Fire House
Borough of East Rutherford, Bergen County, New Jersey
FPA No. 18704.016R1

INTRODUCTION

This report presents the results of our Subsurface Exploration and Geotechnical Engineering Assessment performed in connection with the proposed NJSEA Fire Headquarters Expansion located at the Meadowlands Sports Complex at 50 NJ Route 120 in the Borough of East Rutherford, Bergen County, New Jersey. The current site conditions consist of an existing one-story building and firehouse as well as paved parking areas in the vicinity of the proposed improvements. The regional location of the project site is presented on Drawing No. 1, "Regional Location Plan."

Based on review of the Architectural Site Plan, it is our understanding that the proposed expansion will include a renovation to the existing firehouse, a building addition to the north of the existing firehouse occupying a plan area of approximately 3,300 square feet and a building addition to the south of the existing firehouse occupying a plan area of approximately 3,500 square feet. The existing site is relatively level with site grades varying from approximately elevation +6.5 feet and slope up to approximately elevations +8 feet to +9 feet at the existing building. The proposed building finished floor elevation is +8.3 feet. Therefore, we anticipate fills on the order of 0.5 feet to 1.5 feet be required to achieve the proposed site grades and building floor elevation.

The purpose of our involvement on the project at this time was to perform a Subsurface Exploration and Geotechnical Engineering Assessment to assist with the planning, design and construction of the proposed firehouse building addition foundations. Our scope of work included the technical observation of 2 test borings, engineering evaluation of the acquired data and the preparation of this geotechnical report. Our services were performed in accordance with our proposal dated January 28, 2025.



SUBSURFACE EXPLORATION

A subsurface exploration program consisting of 2 test borings was performed on March 5, 2025 to characterize the subsurface soil and groundwater conditions in the vicinity of the proposed building additions. The field work was performed by a drilling subcontractor while under the full-time technical observation by a representative of French and Parrello Associates (FPA). The test borings were field located by our representative based upon correlation to existing site features as shown on the site plan. The approximate as-drilled test boring locations are presented on Drawing No. 2, "Test Boring Location Plan."

The test borings, designated as B-1 and B-2, were advanced to depths ranging from approximately 37 feet and 21.2 feet below the existing ground surface, respectively, utilizing mud rotary drilling procedures and rock coring techniques. Soil samples were obtained by advancing a standard two-inch diameter split-spoon sampler in accordance with ASTM Test Method D-1586, The Standard Penetration Test. Soil samples were taken continuously to a depth of 12 feet and at maximum 5-foot intervals thereafter. Rock samples were obtained using a NQ-size, diamond-tipped, double-barrel core barrel. All soil samples were classified in the field using the Burmister Soil Classification System. The rock samples were classified in accordance with their geologic origin and assigned a Rock Quality Designation (RQD) value. The soil and rock core samples were returned to our in-house soils laboratory for further review. The samples will be stored for a minimum period of 60 days from the date of this report.

The depth to groundwater was estimated based on the moisture content of the retrieved soil samples. Details of the drilling procedures, soil and rock classifications, groundwater depths and Standard Penetration Test results are presented on the boring logs in Appendix A.

SITE CONDITIONS

Regional Geology

Based upon our review of published geologic information pertaining to the project region and our prior experience in the area, the soils should consist of surficial fill material underlain by tidal marsh deposits, geologically older glacially deposited soils and the Brunswick bedrock formation. Areas of tidal marsh within Bergen County have been reclaimed for industrial development. The substantial depth of fill material required to support industrial construction is usually underlain by a somewhat compressed but nevertheless typical, tidal marsh profile. The tidal marsh deposits consist of a decomposed organic mat extending from the previous ground surface to a depth that varies from two feet to possibly more than 5 feet. The mat is underlain by highly organic silts, clayey silts and clays extending down to glacial soils and the Brunswick Shale formation.

The glacially deposited soils typically consist of glacial ground moraine composed of non-residual, unstratified materials deposited during the Wisconsin glaciation. The glacial soils typically consist of sandy silts and silty sands, with occasional silts, silty clays and clays in the depressions. Cobbles and boulders may also be present within the glacial deposits. Siltstone and Shale bedrock of the Brunswick formation is typically encountered at depths greater than 25 feet in the immediate project vicinity.



Encountered Subsurface Conditions

The soils encountered within the test borings were generally consistent with those reported in the published geologic literature. The test borings encountered approximately 4 inches of asphalt pavement at the existing surface. The soils encountered within the test borings consisted of a surficial layer of fill underlain by marine tidal marsh deposits, glacially deposited soils and completely to moderately weathered Siltstone bedrock. The surficial fills were encountered from below the existing asphalt to depths ranging from approximately 6.5 feet to 7 feet and were composed of coarse to fine sand intermixed with minor to moderate amounts of silt and medium to fine gravel. The surficial fills were intermixed with miscellaneous construction debris including pieces of glass, tile, brick and wood fragments.

Organic silts and clays (tidal marsh deposits) were encountered below the surficial fills to depths of approximately 10 feet to 10.5 feet below the existing grade. The tidal marsh deposits consisted of silt and clay interbedded with layers of peat and intermixed with minor to moderate amounts of fine sand as well as varying amounts of root fibers and wood fragments. The amount of organic material, i.e. root fibers and wood, decreased with depth within the tidal marsh deposits. Minor amounts of construction debris were also encountered within the organic silts and clays.

The underlying glacial soils were composed of predominantly cohesive soils and consisted of silt and clay intermixed with varying amounts of fine sand and minor amounts of fine gravel. The amount of sand typically decreased with depth within the glacial deposits. Completely weathered Siltstone bedrock of the Brunswick formation was encountered beneath the glacial soils at a depth of approximately 21 feet below the existing ground surface and consisted of a mixture of silt and clay with moderate to significant amounts of coarse to fine sand and gravel. Competent fractured Siltstone bedrock was encountered at a depth of approximately 30 feet to 35 feet below the existing ground surface within test boring B-1.

Based on the results of the Standard Penetration Testing, the relative density of the granular surficial fills may be described as very loose to medium-dense. The consistency of the tidal marsh deposits soils may be described as soft. The consistency of the underlying cohesive glacial deposits ranged from stiff to hard. The relative density of the completely weathered Siltstone was medium-dense to very dense, typically increasing with depth. The Rock Quality Designation (RQD) of the recovered rock core is 75 percent, which indicates that the quality of the rock to be good.

Groundwater was encountered at depths ranging from approximately 6.5 feet to 7 feet below the existing ground surface corresponding to approximate elevation +0 feet to +0.5 feet. Seasonal, tidal and storm-related fluctuations in the groundwater level, as well as the potential presence of perched groundwater within the surficial fills, should be anticipated. For a more detailed description of the subsurface conditions encountered, please refer to the boring logs in Appendix A.

Seismicity

We have reviewed the guidelines presented in the New Jersey Edition of the 2021 International Building Code (IBC) regarding seismic design. Based upon subsurface data, we offer the following site characterization parameters:

Short Period Spectral Acceleration (S_s)	0.293g
Spectral Acceleration @ 1 Second (S_1)	0.060g
Site Class.....	D



DISCUSSION & RECOMMENDATIONS

General

Based upon the results of the subsurface exploration and our subsequent geotechnical engineering evaluation, it is our opinion that the presence of the very loose to loose surficial fill and underlying compressible tidal marsh deposits encountered to depths of approximately 10.5 feet below the existing grade will adversely impact the construction of the proposed building additions and do not provide for uniform support for conventional shallow foundations. Structures supported directly on such soils will be prone to significant total and differential settlements. We recommend that the proposed structures be supported on deep foundations bearing within the weathered and fractured Siltstone bedrock encountered at a depth of approximately 30 feet to 35 feet from the existing grade. Typically, for the soil conditions encountered, the use of driven timber or steel piles are most cost effective. However, site access and vibration concerns will preclude the use of driven piles.

We also considered the use of helical piles for the support of the proposed foundations. Helical piles may be installed utilizing limited access equipment and the installation procedures produce minimum vibrations. However, the buried construction debris located within the surficial fills as well as cobbles and boulders within underlying glacial soils may significantly impact the installation of helical piles. Therefore, we recommend the use of drilled micro-piles to support the proposed building additions. Micro-piles are well suited for advancing through variable and difficult conditions including obstructions and construction debris. Micro-piles also produce negligible vibrations during installation, which will limit impacts on the adjacent structures and utilities. Since the capacity of a micro-pile is achieved through frictional resistance of the grout to rock bond, the tensile capacity is equivalent to the compressive capacity. Commentary on such, as well as discussions on micro-pile foundations for the proposed improvements, are presented in this report.

Groundwater Considerations

Groundwater was encountered at depths ranging from approximately 6.5 feet to 7 feet below the existing ground surface at the time our subsurface explorations were performed, corresponding to approximate elevation +0 feet to +0.5 feet. Seasonal, tidal and storm-related fluctuations in the groundwater level, as well as the potential presence of perched groundwater within the surficial fills, should be anticipated. We anticipate that perched water encountered within the surficial fills may be addressed using sump pumps placed within crushed stone. For excavations that extend to or below the observed groundwater levels, alternate means of dewatering may be required. We recommend that such dewatering efforts be specified on a performance basis and that the means and methods for such be left to the discretion of the Contractor.

Drilled Micro-Pile Foundations

Micro-piles consist of grout-filled steel casing drilled through the overburden soils with an uncased bond zone within the Siltstone bedrock encountered at a depth of approximately 30 feet to 35 feet below the existing grade and from which the design axial capacity is developed. The actual top of Siltstone bedrock layer will vary at each pile location and is typically verified during construction through observation of the drilling rate in the dense soils/weathered rock and soil/rock cuttings. Based on the conditions encountered, we estimate that an allowable bond strength of 60 psi will be suitable for the Siltstone bedrock. The minimum yield strength of the steel casing and minimum compressive strength of the grout should be 45,000 psi and 5,000 psi, respectively. The shell thickness should be a minimum of 0.5 inches. We recommend that the center-to-center pile spacing be a minimum of 30 inches.



We recommend that the micro-piles consist of a 5-1/2-inch diameter, 0.5-inch thick steel casing. We recommend that the presence of miscellaneous construction debris and obstructions within the surficial fill material be anticipated as well as cobble and boulders within the glacial soils and considered when selecting drilling means and methods. Our static pile computations for micro-piles were performed using Federal Highway Administration (FHWA) Method.

Minimum Tip Elevations & Embedment Lengths

The minimum pile tip elevation for all piles should be established at a minimum bond length of 5 feet into the competent Siltstone bedrock encountered at a depth of approximately 30 feet to 35 feet below the existing ground surface. Provided that a minimum center-to-center pile spacing of 5-pile diameters is maintained, there are no reductions required for pile groups acting in compression. A summary of the estimated pile embedment lengths and associated allowable vertical capacities are presented below:

Allowable Vertical Capacity ⁽¹⁾	Estimated Micro-Pile Bond Length ⁽²⁾	Estimated Micro-Pile Length ^(3,4)
10 tons	4 Feet	34 to 39 Feet
20 tons	8 Feet	38 to 43 Feet
30 tons	12 Feet	42 to 47 Feet
40 tons	16 Feet	46 to 51 Feet

- (1) Allowable pile capacities consider a Factor of Safety equal to 2.5.
- (2) Bond Length begins at the top of competent Siltstone bedrock at a depth of approximately 30 to 35 feet below the existing ground surface.
- (3) Estimated pile lengths are relative to the existing grade.
- (4) Actual lengths to be determined during the installation of each pile.

Lateral Capacity of Micro-Piles

We have evaluated the lateral capacity of the referenced micro-piles using the L-PILE v2022 computer program. Our analyses considered the top of the piles to be at the existing ground surface. Our analyses considered that the maximum allowable lateral resistance of a pile is one-half of the load which produces a deflection of 1 inch at the pile head. Our evaluation indicates that the pile head fixity will affect computed deflections, and therefore the allowable lateral capacity. For all cases analyzed, the moments induced at the pile-heads did not exceed the allowable moment capacity of the various piles analyzed. The allowable lateral pile capacities for free head and fixed head conditions are 2.5 kips and 6.5 kips, respectively.



Soil Properties & Lateral Earth Pressures

To facilitate the design of below grade improvements, we offer the following soil parameters for the in-situ soils. Additionally, we note that the soil properties presented below were utilized to estimate micro-pile capacities:

Surficial Fills (0-6.5')

Total Unit Weight of Soil (γ).....	115 pcf
Angle of Soil Internal Friction (ϕ)	28°
Cohesion (C)	0 psf
Active Earth Pressure Coefficient (K_a)	0.36
At-Rest Earth Pressure Coefficient (K_o)	0.53
Passive Earth Pressure Coefficient (K_p).....	2.77

Tidal Marsh Deposits (6.5-10.5')

Total Unit Weight of Soil (γ).....	95 pcf
Angle of Soil Internal Friction (ϕ)	0°
Cohesion (C)	250 psf
Active Earth Pressure Coefficient (K_a)	1.00
At-Rest Earth Pressure Coefficient (K_o)	1.00
Passive Earth Pressure Coefficient (K_p).....	1.00

Glacial Silts & Clays (10.5-21')

Total Unit Weight of Soil (γ).....	120 pcf
Angle of Soil Internal Friction (ϕ)	0°
Cohesion (C)	3,000 psf
Active Earth Pressure Coefficient (K_a)	1.00
At-Rest Earth Pressure Coefficient (K_o)	1.00
Passive Earth Pressure Coefficient (K_p).....	1.00

Completely Weathered Siltstone (21-30')

Total Unit Weight of Soil (γ).....	125 pcf
Angle of Soil Internal Friction (ϕ)	36°
Cohesion (C)	0 psf
Active Earth Pressure Coefficient (K_a)	0.26
At-Rest Earth Pressure Coefficient (K_o)	0.41
Passive Earth Pressure Coefficient (K_p).....	3.85

Type "G" Fill

Total Unit Weight of Soil (γ).....	120 pcf
Angle of Soil Internal Friction (ϕ)	32°
Cohesion (C)	0 psf
Active Earth Pressure Coefficient (K_a)	0.31
At-Rest Earth Pressure Coefficient (K_o)	0.47
Passive Earth Pressure Coefficient (K_p).....	3.25



In the event that concentrated loads are located in the vicinity of the walls, we recommend that the potential for additional lateral pressures on the walls be evaluated. The magnitude of any lateral stress increases may be calculated using published solutions based on elastic theory. We recommend that any walls located adjacent to roadways or parking lots be designed for a uniform surcharge of 250 psf at the ground surface. The use of heavy compaction equipment within 5 feet of the walls is prohibited.

CLOSING & LIMITATIONS

The recommendations contained herein are contingent upon subsurface conditions remaining consistent with those encountered during our subsurface exploration. They are also contingent upon the basis that all foundation related aspects of construction, including micro-pile inspection be observed by a representative of FPA. This is to observe compliance with the design concepts and specifications and to allow design changes in the event that subsurface conditions differ from those anticipated prior to construction.

The scope of our services did not include any environmental assessment or investigation for the presence or absence of wetlands, chemically hazardous, or biologically toxic materials in the soil, surface water, groundwater or air, on or below or around the site.

Services performed by FPA during this project have been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions. No other representation, expressed or implied, and no warranty or guarantee is included or intended in the services provided.

Should you have any questions or if we can be of service to you in the future, please feel free to contact us.

Sincerely,

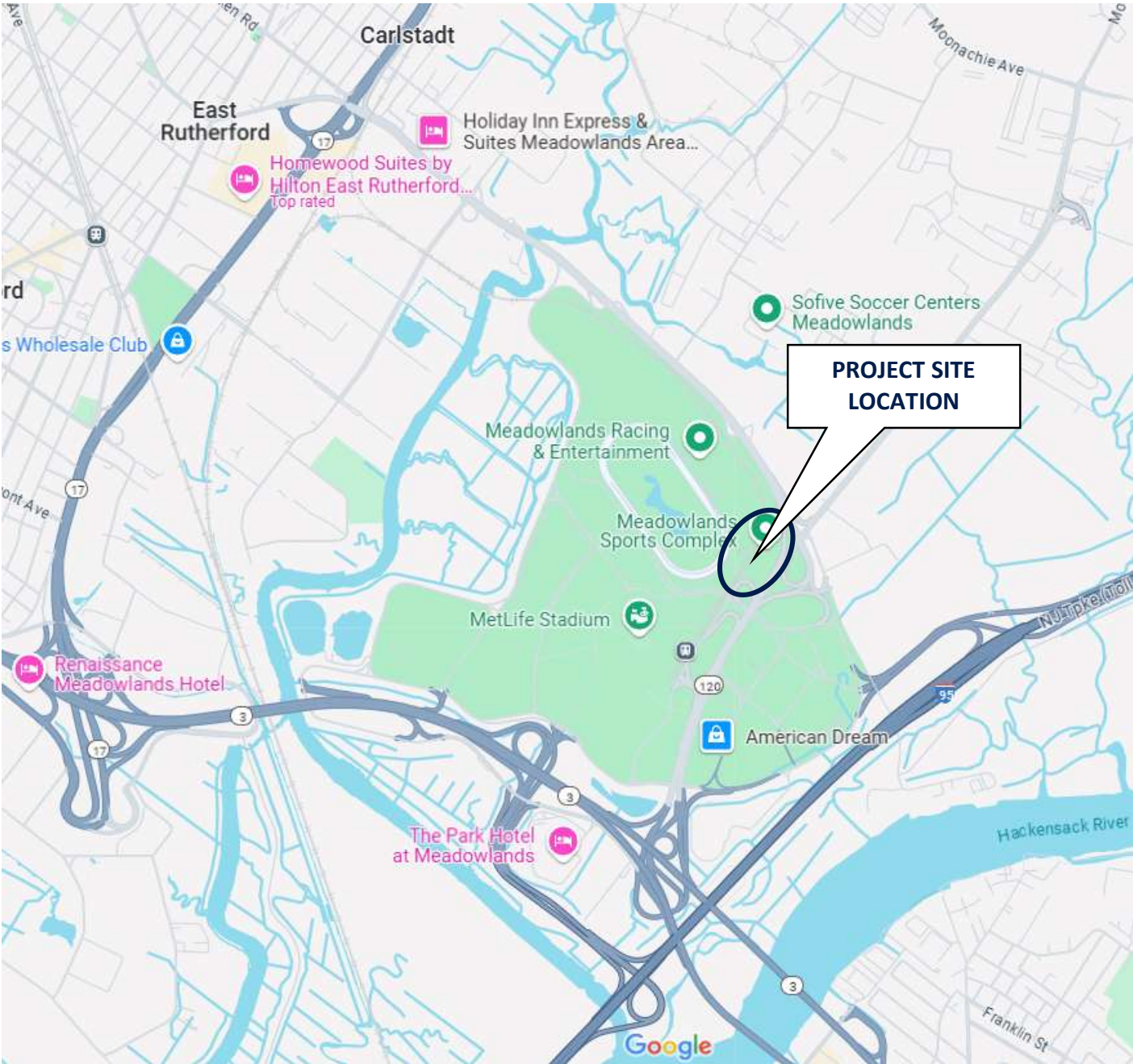
FRENCH & PARRELLO ASSOCIATES

A handwritten signature in blue ink, reading 'David M. Rohmeyer'.

David M. Rohmeyer, PE
Project Manager

A handwritten signature in blue ink, reading 'Joseph M. Tierney'.

Joseph M. Tierney, PE
Project Consultant, Manager of Geotechnical Services



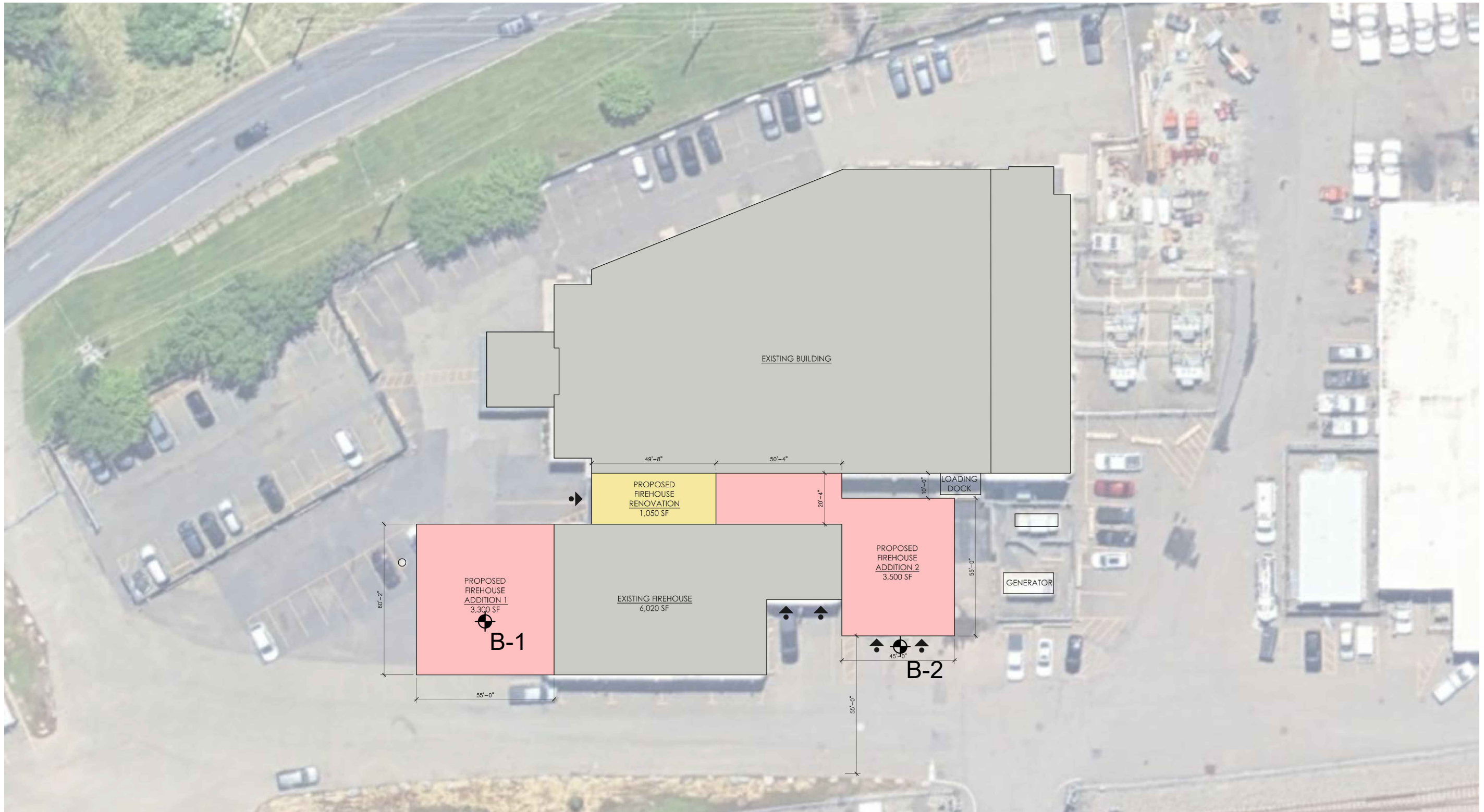
REGIONAL LOCATION PLAN

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NJSEA FIRE HOUSE
BOROUGH OF EAST RUTHERFORD, BERGEN COUNTY, NEW JERSEY

SCALE:	DATE:	JOB NO.:	DRAWING NO.:
NTS	MAY 2025	18704.016	1

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LEGEND:

 TEST BORING LOCATION





FRENCH & PARRELLO ASSOCIATES

New Jersey ▲ New York ▲ Pennsylvania ▲ Georgia

Corporate Office:
1800 Rt 34, Suite 101
Wall, New Jersey 07719
732.312.8000

FPAengineers.com

TEST BORING LOCATION PLAN FOR NJSEA FIRE HOUSE BOROUGH OF EAST RUTHERFORD BERGEN COUNTY, NEW JERSEY		
DATE: MAY 2025	SCALE: APPROX. 1"=40'	DRAWING # 2
DRAWN BY: EDH	PROJECT NUMBER: 18704.016	



Appendix A

Test Boring Logs

BURMISTER SOIL CLASSIFICATION SYSTEM

A. Cohesionless Soils: Particle Size Definitions

Soil	Fraction	U.S. Standard Sieve	Actual Sizes
Gravel	coarse	3 in. to 1 in.	76 mm to 25 mm
	medium	1 in. to 3/8 in.	25 mm to 9.5 mm
	fine	3/8 in. to No. 10	9.5 mm to 2.0 mm
Sand	coarse	No. 10 to No. 30	2.0 mm to 0.6 mm
	medium	No. 30 to No. 60	0.6 mm to 0.25 mm
	fine	No. 60 to No. 200	0.25 mm to 0.075 mm
Silt		< No. 200	< 0.075 mm

B. Terms Describing Gradation of Cohesionless Soils

Written Description	Symbol/Designation	Defining Proportions
coarse, medium to fine	cmf	all fractions > 10%
coarse to medium	cm	< 10% fine
medium to fine	mf	< 10% coarse
coarse	c	< 10% medium and fine
medium	m	< 10% coarse and fine
fine	f	< 10% coarse and medium

Note: Use (+) for upper limit and (-) for lower limit.

C. Cohesive Soils: Terms Describing Plasticity

Soil	Plasticity Index	Workability	Plasticity Description
Clayey SILT	1 to 5	1/4 in. thread	Slightly Plastic
SILT & CLAY	5 to 10	1/8 in. thread	Low Plasticity
CLAY & SILT	10 to 20	1/16 in. thread	Medium Plasticity
Silty CLAY	20 to 40	1/32 in. thread	High Plasticity
CLAY	>40	1/64 in. thread	Very High Plasticity

D. Terms Describing Overall Composition of Soil

Written Proportion	Proportion Symbol	Proportion Percent by Weight
and	a	35 to 50
some	s	20 to 35
little	l	10 to 20
trace	t	1 to 10

Note: Use (+) for upper limit and (-) for lower limit.

ROCK CLASSIFICATION SYSTEM

A. Weathering Classification

Grade	Symbol	Diagnostic Features
Fresh	F	No visible sign of decomposition or discoloration. Rings under hammer impact.
Slightly Weathered	WS	Slight discoloration inwards from open fractures, otherwise similar to F.
Moderately Weathered	WM	Discoloration throughout. Weaker minerals such as feldspar decomposed. Strength somewhat less than fresh rock but cores cannot be broken by hand or scraped by knife. Texture preserved.
Highly Weathered	WH	Most minerals somewhat decomposed. Specimens can be broken by hand with effort or shaved with knife. Core stones present in rock mass. Texture becoming indistinct but fabric preserved
Completely Weathered	WC	Minerals decomposed to soil but fabric and structure preserved (Saprolite). Specimens easily crumbled or penetrated.
Residual Soil	RS	Advanced state of decomposition resulting in plastic soils. Rock fabric and structure completely destroyed. Large volume change.

B. Discontinuity Spacing

Description for Structural Features: Bedding, Foliation, or Flow Banding	Spacing	Description for Joints, Faults or Other Fractures
Very thickly (bedded, foliated, or banded)	More than 6 feet	Very Widely (fractured or jointed)
Thickly	2 – 6 feet	Widely
Medium	8 – 24 inches	Medium
Thinly	2 1/2 – 8 inches	Closely
Very thinly	3/4 – 2 1/2 inches	Very closely



TEST BORING LOG

NJSEA FIRE HOUSE
BOROUGH OF EAST RUTHERFORD, BERGEN COUNTY, NEW JERSEY
FPA NO. 18704.016

BORING NO.: B-1
SHEET 1 OF 1

DATE STARTED: 3/5/2025
DATE FINISHED: 3/5/2025

DEPTH OF WATER: 6.5'±
LOCATION: See Plan

GROUND ELEVATION: +7'±
GROUND WATER ELEV.: +0.5'±

DRILLING TECHNIQUE: Mud Rotary
HAMMER TYPE: 140 lb. Automatic Trip Hammer, 30 Inch Drop

DEPTH FEET	SAMPLE DEPTH	SPT BLOW COUNTS (PER 6")	STRATA	DESCRIPTION OF SOIL	
--- 5' ---	S-1 0-2'	X – 9 – 13 – 8		S-1	TOP 4": Asphalt . MID 14": Brown cmf SAND , little mf Gravel, little Silt. (fill) BOT 6": Red-Brown mf SAND , trace f Gravel, trace Silt. (fill)
	S-2 2-4'	6 – 9 – 15 – 18		S-2	Dark Brown cmf SAND , some f Gravel, little Silt, w/ glass pieces & wood fragments. (fill)
	S-3 4-6'	6 – 4 – 5 – 5		S-3	Dark Brown mf SAND , some+ Silt, little+ f Gravel, w/ tile & brick pieces. (fill)
	S-4 6-8'	3 – 1 – 2 – 2		S-4	TOP 6": Same as S-3 . BOT 18": Dark Brown PEAT , trace f Sand, w/ wood & brick pieces.
	S-5 8-10'	3 – 1 – 2 – 1		S-5	Dark Brown cmf SAND , and Organic Silt, little+ cmf Gravel, w/ glass & shingles. (fill)
	S-6 10-12'	1 – 1 – 3 – 3		S-6	TOP 18": Grey & Brown Silty CLAY , trace f Sand. BOT 6": Grey-Brown f SAND , some- Silt & Clay.
---15'---	S-7 15-17'	2 – 7 – 11 – 13		S-7	Brown Silty CLAY , trace f Sand. (<i>P. Pen = 4.5 tsf</i>)
---20'---	S-8 20-22'	16 – 15 – 18 – 18		S-8	TOP 12": Red-Brown CLAY , trace f Gravel, trace- f Sand. (<i>P. Pen = 2.5 tsf</i>) BOT 12": Red-Brown mf+ SAND , some+ Silt & Clay, little+ cmf Gravel. (completely weathered siltstone)
---25'---	S-9 25-27'	7 – 9 – 11 – 14		S-9	Same as S-8 , BOT 12" .
---30'---	S-10 30-32'	60/0" – X – X – X		S-10	No Recovery.
---35'---	RUN-1 35-37'	REC.: 85% RQD: 75%		RUN-1	Red-Brown moderately weathered, closely to medium fractured SILTSTONE .
END OF BORING @ 37'					

SOILS ENGINEER: J. TIERNEY, PE
DRILLING INSPECTOR: E. HAMILTON, PG

CONTRACTOR: CRAIG TEST BORING
DRILLER: M. TARTER

The information shown hereon indicates the subsurface conditions encountered at the specific boring location on the date(s) of drilling. Subsurface conditions are likely to vary across the project site. Interpretation of the subsurface data shall be at the discretion of the user.



TEST BORING LOG

NJSEA FIRE HOUSE
BOROUGH OF EAST RUTHERFORD, BERGEN COUNTY, NEW JERSEY
FPA NO. 18704.016

BORING NO.: B-2
SHEET 1 OF 1

DATE STARTED: 3/5/2025
DATE FINISHED: 3/5/2025

DEPTH OF WATER: 7'±
LOCATION: See Plan

GROUND ELEVATION: +7'±
GROUND WATER ELEV.: +0'±

DRILLING TECHNIQUE: Mud Rotary
HAMMER TYPE: 140 lb. Automatic Trip Hammer, 30 Inch Drop

DEPTH FEET	SAMPLE DEPTH	SPT BLOW COUNTS (PER 6")	STRATA	DESCRIPTION OF SOIL
---	S-1 0-2'	X - 8 - 4 - 4		S-1 TOP 4": Asphalt . BOT 20": Brown cmf SAND , little f Gravel, trace Silt. (fill)
---	S-2 2-4'	2 - 4 - 4 - 9		S-2 Dark Grey mf+ SAND , and Silt, trace f Gravel, w/ brick fragments. (fill)
--- 5' ---	S-3 4-6'	8 - 7 - 4 - 8		S-3 Dark Brown cmf SAND , little+ mf+ Gravel, little Silt. (fill)
---	S-4 6-8'	7 - 8 - 3 - 3		S-4 TOP 12": Same as S-3 . BOT 12": Brown Organic SILT , trace f Sand, w/ wood & layers of peat.
--- 10' ---	S-5 8-10'	1 - 2 - 1 - 2		S-5 No Recovery.
---	S-6 10-12'	1 - 3 - 8 - 8		S-6 TOP 6": Dark Brown PEAT , trace f Sand w/ wood pieces. MID 5": Grey & Brown Silty CLAY , trace f Sand.
--- 15' ---	S-7 15-17'	4 - 5 - 9 - 11		S-7 BOT 13": Grey CLAY & SILT , little f Sand. Red-Brown CLAY , trace f Sand. (P. Pen = 3 tsf)
--- 20' ---	S-8 20-22'	4 - 12 - 50/2" - X		S-8 TOP 10": Same as S-7 . BOT 4": Red-Brown cmf+ GRAVEL , some Silt & Clay, little cmf+ Sand. (completely weathered siltstone)
--- 25' ---				END OF BORING @ 21.2'

--- 30' ---				

--- 35' ---				

SOILS ENGINEER: J. TIERNEY, PE
DRILLING INSPECTOR: E. HAMILTON, PG

CONTRACTOR: CRAIG TEST BORING
DRILLER: M. TARTER

The information shown hereon indicates the subsurface conditions encountered at the specific boring location on the date(s) of drilling.
Subsurface conditions are likely to vary across the project site. Interpretation of the subsurface data shall be at the discretion of the user.

SECTION 080671 – DOOR HARDWARE SCHEDULE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section references specification sections relating to commercial door hardware for the following:
 - 1. Swinging doors.
 - 2. Sliding Doors.
 - 3. Other doors to the extent indicated.
- B. Commercial door hardware includes, but is not necessarily limited to, the following:
 - 1. Mechanical door hardware.
 - 2. Electromechanical and access control door hardware.
 - 3. Electromechanical and access control door hardware power supplies, back-ups and surge protection.
 - 4. Automatic operators.
 - 5. Cylinders specified for doors in other sections.
- C. Related Sections:
 - 1. Division 08 Section “Door Hardware”.
- D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
 - 1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
 - 2. ICC/IBC - International Building Code.
 - 3. NFPA 70 - National Electrical Code.
 - 4. NFPA 80 - Fire Doors and Windows.
 - 5. NFPA 101 - Life Safety Code.
 - 6. NFPA 105 - Installation of Smoke Door Assemblies.
 - 7. State Building Codes, Local Amendments.
- E. Standards: Reference Related Sections for requirements regarding compliance with applicable industry standards.

1.3 SUBMITTALS

- A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.
- B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
 - 1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
 - 2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
 - 3. Content: Include the following information:
 - a. Type, style, function, size, label, hand, and finish of each door hardware item.
 - b. Manufacturer of each item.
 - c. Fastenings and other pertinent information.
 - d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
 - e. Explanation of abbreviations, symbols, and codes contained in schedule.
 - f. Mounting locations for door hardware.
 - g. Door and frame sizes and materials.
 - 4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
- C. Keying Schedule: Prepared under the supervision of the Owner, separate schedule detailing final keying instructions for locksets and cylinders in writing. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner to approve submitted keying schedule prior to the ordering of permanent cylinders.
- D. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.
- E. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as

required in Division 01, Closeout Submittals. The manual to include the name, address, and contact information of the manufacturers providing the hardware and their nearest service representatives. The final copies delivered after completion of the installation test to include "as built" modifications made during installation, checkout, and acceptance.

- F. Warranties and Maintenance: Special warranties and maintenance agreements specified in the Related Sections.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.
- B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.
- C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.5 WARRANTY

- A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

1.6 MAINTENANCE SERVICE

- A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

- A. Refer to "PART 3 – EXECUTION" for required specification sections.

PART 3 - EXECUTION

3.1 DOOR HARDWARE SETS

- A. The door hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.
 - 1. Quantities listed are for each pair of doors, or for each single door.
 - 2. The supplier is responsible for handing and sizing all products.
 - 3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.
 - 4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.
- B. Products listed in the hardware sets shall be supplied by and in accordance with the requirements described in the specification section as noted for each item.
 - 1. Section 08 71 00 – Door Hardware.
- C. Manufacturer's Abbreviations:
 - 1. MK - McKinney
 - 2. PE - Pemko
 - 3. YA - ASSA ABLOY ACCENTRA
 - 4. KA - Kaba Ilco
 - 5. RO - Rockwood
 - 6. OT - Other

Hardware Sets

Set: 1.0

Doors: OH1, OH2, OH3, OH4, OH5

1 Hardware	By Door Supplier	OT
------------	------------------	----

Notes: All existing hardware to remain at overhead doors No. OH1 and OH2.

Set: 2.0

Doors: X100, X120, X121, X130

1 Continuous Hinge	CFM__HD1 x Height of Door		PE	087100
1 Rim Exit Device	7105 x Less outside trim	630	YA	087100
1 Keypad Exit Device Trim	L5000 Series	US26D	KA	
2 Keyed Cylinder	Match existing key system	626		087100
1 Surface Closer	PR4400	689	YA	087100
1 Gasketing	By Frame Supplier		OT	
1 Door Sweep	3452CNB TKSP x Width of door		PE	087100
1 Threshold	171A MSES25SS x Width of opening		PE	087100

Set: 3.0

Doors: 100

3 Hinge, Full Mortise, Hvy Wt	T4A3386 4-1/2" x 4-1/2"	US32D	MK	087100
1 Push Bar	720DB	630	YA	087100
1 Door Pull	BF158	US32D	RO	087100
1 Surface Closer	PR4400	689	YA	087100
1 Kick Plate	K1050 10" H. x CSK BEV	US32D	RO	087100
1 Wall Stop	406	US32D	RO	087100
3 Silencer	608-RKW		RO	087100

Set: 4.0

Doors: 130A

3 Hinge, Full Mortise, Hvy Wt	T4A3386 4-1/2" x 4-1/2"	US32D	MK	087100
1 Passage Latch	AU 5401LN	626	YA	087100
1 Surface Closer	UNI4400	689	YA	087100

NJSEA Firehouse Garage
Additions & Renovations
Meadowlands Sports Complex
East Rutherford, NJ
DMR Project No.5669

1 Kick Plate	K1050 10" H. x CSK BEV	US32D	RO	087100
3 Silencer	608-RKW		RO	087100

Set: 5.0

Doors: 130B

3 Hinge, Full Mortise, Hvy Wt	T4A3386 4-1/2" x 4-1/2"	US32D	MK	087100
1 Pull Plate	BF 110x70C	US32D	RO	087100
1 Push Plate	70C-RKW	US32D	RO	087100
1 Surface Closer	PR4400	689	YA	087100
1 Kick Plate	K1050 10" H. x CSK BEV	US32D	RO	087100
1 Wall Stop	406	US32D	RO	087100
3 Silencer	608-RKW		RO	087100

END OF SECTION 080671

SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes commercial door hardware for the following:
 - 1. Swinging doors.
- B. Door hardware includes, but is not necessarily limited to, the following:
 - 1. Mechanical door hardware.
- C. Related Sections:
 - 1. Division 08 Section "Hollow Metal Doors and Frames".
 - 2. Division 08 Section "Flush Wood Doors".
- D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
 - 1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
 - 2. ICC/IBC - International Building Code.
 - 3. NFPA 70 - National Electrical Code.
 - 4. NFPA 80 - Fire Doors and Windows.
 - 5. NFPA 101 - Life Safety Code.
 - 6. NFPA 105 - Installation of Smoke Door Assemblies.
 - 7. State Building Codes, Local Amendments.
- E. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:
 - 1. ANSI/BHMA Certified Product Standards - A156 Series.
 - 2. UL10C - Positive Pressure Fire Tests of Door Assemblies.
 - 3. ANSI/UL 294 - Access Control System Units.
 - 4. UL 305 - Panic Hardware.

1.3 SUBMITTALS

- A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.
- B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing, fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
 - 1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
 - 2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
 - 3. Content: Include the following information:
 - a. Type, style, function, size, label, hand, and finish of each door hardware item.
 - b. Manufacturer of each item.
 - c. Fastenings and other pertinent information.
 - d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
 - e. Explanation of abbreviations, symbols, and codes contained in schedule.
 - f. Mounting locations for door hardware.
 - g. Door and frame sizes and materials.
 - h. Warranty information for each product.
 - 4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
- C. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.
- D. Informational Submittals:
 - 1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

1.4 CLOSEOUT SUBMITTALS

- A. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.
- B. Project Record Documents: Provide record documentation of as-built door hardware sets in digital format (.pdf, .docx, .xlsx, .csv) and as required in Division 01, Project Record Documents.

1.5 QUALITY ASSURANCE

- A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.
- B. Certified Products: Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).
- C. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
- D. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.
- E. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.
 - 1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.
- F. Each unit to bear third party permanent label indicating compliance with the referenced testing standards.
- G. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:
 - 1. Function of building, purpose of each area and degree of security required.
 - 2. Plans for existing and future key system expansion.
 - 3. Requirements for key control storage and software.

4. Installation of permanent keys, cylinder cores and software.
 5. Address and requirements for delivery of keys.
- H. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.
1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
 2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
 3. Review sequence of operation narratives for each unique access controlled opening.
 4. Review and finalize construction schedule and verify availability of materials.
 5. Review the required inspecting, testing, commissioning, and demonstration procedures
- I. At completion of installation, provide written documentation that components were applied according to manufacturer's instructions and recommendations and according to approved schedule.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.
- B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.
- C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.7 COORDINATION

- A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.
- B. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.8 WARRANTY

- A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
- B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:
 - 1. Structural failures including excessive deflection, cracking, or breakage.
 - 2. Faulty operation of the hardware.
 - 3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
 - 4. Electrical component defects and failures within the systems operation.
- C. Warranty Period: Unless otherwise indicated, warranty shall be one year from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Hardware shall not have any visible manufacturer names on exposed materials, except cylinders, when the door is in a closed position.

2.2 BUTT HINGES

- A. Hinges: ANSI/BHMA A156.1 butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.
 - 1. Quantity: Provide the following hinge quantity:
 - a. Two Hinges: For doors with heights up to 60 inches.
 - b. Three Hinges: For doors with heights 61 to 90 inches.
 - c. Four Hinges: For doors with heights 91 to 120 inches.
 - d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.
 - 2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:
 - a. Widths up to 3'0": 4-1/2" standard or heavy weight as specified.
 - b. Sizes from 3'1" to 4'0": 5" standard or heavy weight as specified.
 - 3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:

- a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
 - b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.
- 4. Hinge Options: Comply with the following:
 - a. Non-removable Pins: With the exception of electric through wire hinges, provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for all out-swinging lockable doors.
- 5. Manufacturers:
 - a. McKinney (MK) - TA/T4A Series, 5-knuckle.

2.3 CONTINUOUS HINGES

- A. Continuous Geared Hinges: ANSI/BHMA A156.26 Grade 1-600 continuous geared hinge. with minimum 0.120-inch thick extruded 6063-T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.
 - 1. Manufacturers:
 - a. Pemko (PE).

2.4 DOOR OPERATING TRIM

- A. Door Push Plates and Pulls: ANSI/BHMA A156.6 door pushes and pull units of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.
 - 1. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.
 - 2. Pulls, where applicable, shall be provided with a 10" clearance from the finished floor on the push side to accommodate wheelchair accessibility.
 - 3. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets. When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.
 - 4. Manufacturers:
 - a. Rockwood (RO).

2.5 CYLINDERS AND KEYING

- A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.

1. Manufacturers:
 - a. Match Existing, Field Verify.
- B. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:
 1. Threaded mortise cylinders with rings and cams to suit hardware application.
 2. Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
 3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.
 4. Tubular deadlocks and other auxiliary locks.
 5. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
 6. Keyway: Match Facility Standard.
- C. Keying System: Each type of lock and cylinders to be factory keyed.
 1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
 2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
 3. Existing System: Field verify and key cylinders to match Owner's existing system.
- D. Key Quantity: Provide the following minimum number of keys:
 1. Change Keys per Cylinder: Two (2)
 2. Master Keys (per Master Key Level/Group): Five (5).
 3. Construction Keys (where required): Ten (10).
- E. Construction Keying: Provide construction master keyed cylinders.
- F. Key Registration List (Bitting List):
 1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
 2. Provide transcript list in writing or electronic file as directed by the Owner.

2.6 CYLINDRICAL LOCKS AND LATCHING DEVICES

- A. Cylindrical Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.2, Series 4000, Operational Grade 1 Certified Products Directory (CPD) listed cylindrical locksets. Listed manufacturers shall meet all functions and features as specified herein.
 - a. ASSA ABLOY ACCENTRA (YA) – 5400LN SERIES

2.7 LOCK AND LATCH STRIKES

- A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:
 - 1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
 - 2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
 - 3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
 - 4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.
- B. Standards: Comply with the following:
 - 1. Strikes for Mortise Locks and Latches: BHMA A156.13.
 - 2. Strikes for Bored Locks and Latches: BHMA A156.2.
 - 3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
 - 4. Dustproof Strikes: BHMA A156.16.

2.8 CONVENTIONAL EXIT DEVICES

- A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:
 - 1. Exit devices shall have a five-year warranty.
 - 2. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.
 - 3. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.
 - 4. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.
 - 5. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.
 - 6. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.
 - a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
 - b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.

7. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.
 8. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.
 9. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
 10. Rail Sizing: Provide exit device rails factory sized for proper door width application.
 11. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.
- B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed exit devices. Listed manufacturers shall meet all functions and features as specified herein.
1. Manufacturers:
 - a. ASSA ABLOY ACCENTRA (YA) - 7000 Series.

2.9 SURFACE DOOR CLOSERS

- A. All door closers specified herein shall meet or exceed the following criteria:
1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.
 2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
 3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.
 4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.
 5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.
 6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.
- B. Door Closers, Surface Mounted (Heavy Duty): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control. Provide non-handed units standard.
1. Heavy duty surface mounted door closers shall have a 30-year warranty.
 2. Manufacturers:

- a. ASSA ABLOY ACCENTRA (YA) - 4400 Series.
- C. Door Closers, Surface Mounted (Unitrol): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted closers with door stop mechanism to absorb dead stop shock on arm and top hinge. Hold-open arms to have a spring loaded mechanism in addition to shock absorber assembly. Arms to be provided with rigid steel main arm and secondary arm lengths proportional to the door width.
 - 1. Manufacturers:
 - a. ASSA ABLOY ACCENTRA (YA) - Unitrol Series.

2.10 ARCHITECTURAL TRIM

A. Door Protective Trim

- 1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.
- 2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1" LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.
- 3. Where plates are applied to fire rated doors with the top of the plate more than 16" above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer's catalog and template book for specific requirements for size and applications.
- 4. Protection Plates: ANSI/BHMA A156.6 protection plates (kick, armor, or mop), fabricated from the following:
 - a. Stainless Steel: 300 grade, .050-inch thick.
- 5. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.
- 6. Manufacturers:
 - a. Rockwood (RO).

2.11 DOOR STOPS AND HOLDERS

- A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.
- B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.
 - 1. Manufacturers:

- a. Rockwood (RO).

2.12 ARCHITECTURAL SEALS

- A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.
- B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.
 - 1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.
- C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.
 - 1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NFPA 252, Standard Methods of Fire Tests of Door Assemblies.
- D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.
- E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.
- F. Manufacturers:
 - 1. Pemko (PE).

2.13 FABRICATION

- A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.14 FINISHES

- A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.
- B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware

- C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.
- B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

- A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.
- B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.3 INSTALLATION

- A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.
 - 1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.
- B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:
 - 1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
 - 2. DHI TDH-007-20: Installation Guide for Doors and Hardware.
 - 3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
 - 4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.
- C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

- D. Push Plates and Door Pulls: When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.
- E. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."
- F. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.4 FIELD QUALITY CONTROL

- A. Field Inspection (Punch Report): Reference Division 01 Sections "Closeout Procedures". Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.
 - 1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

3.5 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.6 CLEANING AND PROTECTION

- A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.
- B. Clean adjacent surfaces soiled by door hardware installation.
- C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.7 DEMONSTRATION

- A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.8 DOOR HARDWARE SETS

- A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.
1. Quantities listed are for each pair of doors, or for each single door.
 2. The supplier is responsible for handing and sizing all products.
 3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.
 4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.
- B. Refer to Section 080671, Door Hardware Sets, for hardware sets.

END OF SECTION 087100

NJSEA CN-296 Pre-Walk Sign-In Sheet

June 25, 2025 @ 10:00 am

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