



REQUEST FOR PROPOSALS

FOR

Rockefeller Park Playground Restoration

Contractor Services

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I. SUMMARY

Battery Park City Authority d/b/a Hugh L. Carey Battery Park City Authority (“BPCA”) requests proposals (each individually, a “Proposal” or collectively, the “Proposals”) from contractors (each individually, a “Proposer” or collectively, the “Proposers”) to perform a restoration of the Rockefeller Park Playground (the “Project”) located west of River Terrace and southwest of Murray Street in Battery Park City (the “Project Site”). The Project shall generally include, among other things: (1) performance of a detailed survey of existing playground equipment; (2) dismantling and removal of all playground equipment; (3) restoration of all steel components; (4) disposal of all wooden components; (5) removal and disposal of safety surface, asphalt/concrete underlayment and base materials; (6) furnishing and installation of gravel base, new asphalt/concrete underlayment, and poured-in-place safety surface; (7) furnishing and installation of new replacement in kind wooden components and restored metal components to original locations; and (8) final reassembly of all equipment, all as specifically delineated in the Scope of Work attached hereto as Exhibit A.

Created in 1968, BPCA is a New York State public benefit corporation responsible for financing, developing, constructing, maintaining, and operating Battery Park City as a richly diversified mixed use community providing residential and commercial space, with related amenities such as parks, plazas, recreational areas, and a waterfront esplanade. A summary of BPCA’s structure, mission, and history, as well as the Battery Park City project area, may be viewed at: <http://bpca.ny.gov/>. Public information regarding BPCA’s finances, budget, internal controls, guidelines, and policies may be viewed at: <http://bpca.ny.gov/public-information/>. Information relating to the Battery Park City Parks Conservancy Corporation (“BPCPC”), BPCA’s affiliate, may be viewed at: <http://bpcparks.org/>.

New York State-certified Minority-Owned Business Enterprises (“MBE”), Women-Owned Business Enterprises (“WBE”) and Service-Disabled Veteran-Owned Business Enterprises (“SDVOB”) are encouraged to submit Proposals.

II. GENERAL PROVISIONS

This request for Proposals, including attachments, exhibits, and any amendments or addenda (collectively, the “RFP”) is subject to the rights reserved by BPCA, including, but not limited to BPCA’s right to:

- Withdraw and/or cancel this RFP at any time before final award of the contract;
- Request clarification and/or additional information from any or all Proposers;
- Amend any term or requirement of this RFP at any time before award of a contract (Proposers may amend their Proposals, as directed by BPCA, if BPCA materially alters or amends the RFP after submission of Proposals);
- Alter any key dates or deadlines related to this RFP;
- Award the Work, in whole or in part, to one or more Proposers with or without interviews or negotiations;
- Reject any Proposal that does not strictly conform to the requirements of this RFP;
- Conduct an interview with any or all of the Proposers to aid the evaluation process;
- Negotiate potential contract terms with any Proposer.

BPCA is not liable or responsible in any way for any expenses incurred in the preparation of a Proposal in response to this RFP. All information submitted in response to this RFP is subject to the Freedom of Information Law, Article 6 of the New York State Public Officers Law (“FOIL”), which requires public access to certain documents possessed by BPCA, unless a specific exemption applies. Proposers are responsible for identifying any information in their respective Proposals considered to be confidential and exempt from FOIL. BPCA, however, is obligated to disclose information consistent with the requirements of FOIL, NYS Public Officers Law Section 87.

III. **TIMETABLE & DESIGNATED CONTACT**

A. Key Dates

Subject to change at BPCA's discretion, the following are key dates for this RFP:

- RFP issued: October 18, 2018
- Pre-proposal meeting: October 24, 2018 at 10:00 a.m.: Meeting Location: BPCA Offices, 200 Liberty Street, 24th Floor, New York, NY 10281 (attendance is highly recommended).
- Deadline to submit questions to BPCA: November 2, 2018 by 5:00 p.m. (by email only)

All questions regarding this RFP should be submitted in writing via email to the "Designated Contact": **Michael LaMancusa**, Battery Park City Authority, at michael.lamancusa@bpca.ny.gov.

- BPCA's response to substantive questions: November 7, 2018 (via BPCA Website)
- PROPOSAL DUE DATE: **November 29, 2018** by 5:00 p.m. (the "Due Date")
- Contract start date: February, 2019 (approximately)

B. Anticipated Contract Term

The anticipated term of the contract awarded pursuant to this RFP ("Contract") will be eighteen (18) months, and BPCA expects that the duration of construction work will need to be phased (with periods of suspension during summer months) in order to minimize periods of inaccessibility for the community. Total construction duration, inclusive of periods of suspension, may be up to fifteen (15) months. BPCA reserves the right to terminate the Contract at any time, with or without cause, in accordance with the terms of the Contract. BPCA's sample form of contract is attached as Exhibit C.

IV. **GENERAL REQUIREMENTS**

A. Minimum Qualification Requirements

The following are the minimum qualification requirements for this RFP. Proposals that fail to meet these requirements will be rejected.

- 1) Proposer must have an office in New York State (a New York City office is preferred);
- 2) The Proposer must be lawfully authorized to do business in the State of New York; and
- 3) Proposer must have at least five (5) years of general contracting experience working with exterior site projects, parks and/or public spaces (or comparable collective work experience among its principals and/or partners).

B. MBE/WBE/SDVOB Participation, Joint Ventures, and Sub-consulting Goals

Contractor requirements and procedures for business participation opportunities for New York State certified MBEs/WBEs/SDVOBs and equal employment opportunity requirements relating to minority group members

and women are attached as Exhibit B. For questions relating to MBE/WBE/SDVOB participation, joint ventures and sub-contracting goals *only*, please contact the “MBE/WBE/SDVOB Designated Contact” Mr. Anthony Peterson at Anthony.peterson@bpca.ny.gov or 212-417-2337.

C. Restricted Period

New York State’s State Finance Law sections 139-j and 139-k apply to this RFP, restricting Proposers’ contacts with BPCA. Proposers are restricted from making any contact (defined as oral, written or electronic communications with BPCA under circumstances where a reasonable person would infer that a communication was intended to influence BPCA’s conduct or decision with respect to a procurement) relating to this RFP with anyone other than the Designated Contact, as specified in Section III.A., or MBE/WBE/SDVOB Designated Contact, as specified in Section IV.B., from the time of Proposer’s receipt of notice of this RFP through the date of the Final Award as defined in BPCA’s Procurement Guidelines (the “Restricted Period”). BPCA employees must record certain contacts during the Restricted Period, including, but not limited to, any oral or written communications that could reasonably be seen as intended to influence BPCA’s conduct or award of this RFP. Upon notice of an improper contact, BPCA shall make a determination regarding the Proposer’s eligibility to continue participating in this RFP.

D. Submission of Proposals

Proposals must be received by BPCA no later than 3:00 p.m. on November 13, 2018

Each Proposer must submit six (6) paper copies and a PDF version (via CD-ROM or flash drive) in a sealed package clearly marked “Proposal Enclosed – Rockefeller Park Playground Restoration Contractor Services” to the Designated Contact by messenger, overnight courier or certified mail to the following address:

Michael LaMancusa
Battery Park City Authority
200 Liberty Street, 24th Floor
New York, NY 10281

BPCA is not responsible for late Proposals, no matter the cause. Proposals *must* arrive at the time and place specified herein and be time stamped by BPCA by the Due Date. Please leave ample time for building security. Late Proposals will NOT be accepted. Proposals submitted by fax or electronic transmission will NOT be accepted. A Proposer may, after submitting a Proposal, amend its Proposal by submitting an amended Proposal, clearly labeled “Amended Proposal – Rockefeller Park Playground Restoration Contractor Services” as long as the amended Proposal is submitted by the Due Date.

V. PROPOSAL FORMAT AND CONTENTS

A. Proposal Format

The Proposal must:

- Be printed on 8½” x 11” paper;
- Have numbered pages; and
- Be no longer than ten (10) single-sided pages, exclusive of the Cover Letter, Cost Proposal, and Required Attachments.

B. Proposal Content

In addition to the separately sealed Cost Proposal, described in Section VIII below, each Proposal must include the following in the order listed:

- 1) Cover Letter, signed by a person within the firm who is authorized to bind the Proposer, which includes representations that:
 - (a) Except as disclosed in the Proposal, no officer or employee of the Proposer is directly or indirectly a party to or in any other manner interested financially or otherwise in this RFP;
 - (b) Proposer satisfies all of the minimum qualification requirements in Section IV.A; and
 - (c) Proposer has reviewed BPCA's form of contract, attached as Exhibit C to this RFP, and either has no objections or has detailed their objections in an appendix to their Proposal.
- 2) Executive Summary.
- 3) Responses to the Questions as well as all of the Information Required (Sections VI.A. and B.).
- 4) Required Attachments (Section VI. C.).

BPCA reserves the right to reject any Proposals that fail to include any required item described in this Section V. B., including Cover Letters that are unsigned or fail to include each of the above representations (including an appendix, if applicable).

VI. INFORMATION REQUIRED

A. Questions and Information Sought Relating to the Work

- 1) Describe your firm's background, services, size, and history as these factors are relevant to the Work, with an emphasis on general contracting services provided in connection with exterior site projects, projects performed in public parks and open spaces, and projects involving the fabrication, restoration and installation of public playground equipment. Please make special note of any such projects performed in New York City.
- 2) Describe the relevant special services your firm provides, particularly those that may not be offered by other firms.
- 3) Describe your experience handling non-standard timber and masonry installations, including but not limited to, the fabrication and installation of playground equipment for a public park.
- 4) List each key member of the team you intend to assign to this engagement and include for each listed individual: (a) area(s) of specialization; (b) title and/or position within your firm; (c) the services to be performed.
- 5) Identify the person who will be the lead project manager (the "Lead PM") and primary contact in providing services to BPCA, and any other persons who will be listed as a "key person" in any contract with BPCA.

- 6) Identify any subcontractors you intend to use for this engagement, and describe the services to be performed by each subcontractor.
- 7) Describe your proposed team's experience with similar work for other public entities, with an emphasis on New York State and/or New York City public entities.
- 8) Discuss your approach to the project, briefly addressing your conceptual step-by-step approach towards completion of the Project and outline the proposed procedures for executing the requested services.
- 9) Clearly identify any information in your Proposal that you believe to be confidential and exempt from FOIL, and state the reasons. Please note that this question is for informational purposes only, and BPCA will determine FOIL applicability in its sole discretion.
- 10) Identify any and all exceptions taken to BPCA's standard form of contract, attached as Exhibit C, explaining the reasons for such exceptions. Such exceptions must be detailed in an appendix to your Proposal labeled, "Appendix: Objections to BPCA Form of Contract." No exceptions to the Contract will be considered by BPCA after submission of the Proposals. BPCA maintains the right to reject Proposals based on non-conformance with the standard form of Contract.
- 11) Provide at least three (3) client references for whom your firm has performed similar work to that requested in this RFP. For each client, describe the project, the project's date, and services performed, and provide the name, address, and telephone number for a person at client's firm familiar with such work.

B. Questions and Information Sought Relating to Proposer's Firm and Eligibility

- 12) Within the past three (3) years, have there been any significant developments in your firm such as changes in ownership or restructuring? Do you anticipate any significant changes in the near future? If so, please describe.
- 13) How does your firm identify and manage conflicts of interest?
- 14) Are there any potential conflict of interest issues posed by your firm's performance of the Work on behalf of BPCA?
- 15) Has your firm or have any of the firm's partners/employees been disciplined or censured by any regulatory body within the last five (5) years? If so, please describe the relevant facts.
- 16) Within the last five (5) years, has your firm, or a partner or employee in your firm, been involved in litigation or other legal proceedings relating to the provision of professional services? If so, please provide an explanation and the current status or disposition of the matter.
- 17) List any professional or personal relationships your firm's employees may have with BPCA's Board Members and/or employees. List attached as Exhibit I.
- 18) If selected, will your firm assign any person to this engagement who was previously an employee of BPCA or BPCPC? If so, please: i) identify when (month and year) that person's employment at BPCA/BPCPC terminated, and ii) describe that person's involvement, if any, with matters related to this RFP during his/her employment at BPCA/BPCPC.

- 19) In the past five (5) years, have any public sector clients terminated their working relationship with your firm? If so, please provide a brief statement of the reasons. Provide the name of the client and provide a contract person, address and telephone number.

C. Required Attachments

1) Mandatory Forms:

Each Proposal must include a completed copy of all “Mandatory Forms” found at: <http://bpca.ny.gov/wp-content/uploads/2015/03/Vendor-ResponsibilityQuestionnaire.pdf>. The Mandatory Forms include the following:

- a) NYS Standard Vendor Responsibility Questionnaire, notarized and signed by the individual(s) authorized to contractually bind the Proposer, indicating the signer’s title/position within the firm.*
- b) State Finance Law § 139 Form 1, signed by the individual(s) authorized to contractually bind the Proposer.*
- c) W-9 form.
- d) Statement of Non-Collusion.
- e) MBE/WBE/SDVOB Utilization Plans. Please note that all such plans must be submitted even if Proposer is a MBE/WBE/SDVOB.

*In addition to the copy required to be included in each bound Proposal, Proposers must additionally provide one (1) unbound, completed original, with ink signatures, of the NYS Standard Vendor Responsibility Questionnaire and SFL 139 Form 1.

- 2) Response to the question regarding the use of New York State businesses set forth in Section XII.
- 3) Completed MBE/WBE and EEO Policy Statement and Diversity Practices Questionnaire (attached as part of Exhibit B).
- 4) Financial Statements:

Provide a copy of your firm’s most recent Audited Financial Statements (within the last year). In the event you do not have audited financials you must provide a statement to that effect with your proposal, and summary financial information for the calendar year most recently ended.

5) Acknowledgement of Addenda:

Attach a completed and signed Acknowledgement of Addenda Form, attached as Exhibit D acknowledging receipt of all addenda to this RFP, if any, issued by BPCA before the Due Date. Addenda are posted by BPCA as necessary and can be found on the BPCA website at www.bpca.ny.gov. It is the responsibility of each Proposer to check the BPCA website for addenda and to review addenda prior to submitting any proposal in response to this RFP.

6) Appendices:

- a) Attach professional biographies for all Management and Project Managers identified in your Proposal.
- b) Attach a project bar chart schedule showing completion dates for key tasks, milestones, etc. and final completion of all Work.

VII. INSURANCE REQUIREMENTS

A. General Requirements

The selected Proposer will be required to obtain and provide proof of the types and amounts of insurance listed below: (i) as a condition precedent to the award of the contract for the work; and (ii) continuing throughout the entire term of the Contract. The insurance policies listed below must also conform to the applicable terms of the Contract, as shown in BPCA's sample form of contract attached as Exhibit C.

The total cost of the required insurance listed in paragraphs 2) and 3) below must be incorporated into the Cost Proposal. The additional insured protection afforded BPCA, BPCPC, and the State of New York must be on a primary and non-contributory basis. All policies must include a waiver of subrogation in favor of BPCA, BPCPC, and the State of New York, and no policies may contain any limitations / exclusions for New York Labor Law claims.

All of the carriers that provide the below required insurance must provide direct written notice of cancellation or non-renewal to BPCA, BPCPC, and the State of New York at least 30 days before such cancellation or non-renewal is effective, except for cancellations due to non-payment of premium, in which case 10 days written notice is acceptable.

B. Insurance Requirements for the Selected Proposer

The selected Proposer will be required to obtain and provide proof of the types and amounts of insurance listed below: (i) as a condition precedent to the award of the contract for the Project; and (ii) continuing throughout the entire Term. The insurance policies listed below must also conform to the applicable terms of the Contract, as shown in BPCA's sample form of contract attached as Exhibit C.

- **Commercial General Liability Insurance**, written on ISO Form CG 00 01 or its equivalent and with no modification to the contractual liability coverage provided therein, shall be provided on an occurrence basis and limits shall not be less than:
 - \$1,000,000 per occurrence
 - \$2,000,000 general aggregate which must apply on a per location / per project basis
 - \$2,000,000 products/completed operations aggregate

BPCA, BPCPC, and the State of New York must be protected as additional insureds on ISO Form CG 2010 (11/85) or its equivalent on policies held by the selected Proposer and any of its subcontractors. Should the Proposer's work include construction activities of any kind then the Proposer must maintain Products / Completed Operations coverage for no less than three years after the construction work is completed, and continue to include Additional Insured protection for BPCA, BPCPC & The State of New York for the prescribed timeframe. When providing evidence of insurance the Proposer must include a completed Acord 855 NY form.

- **Automobile Liability Insurance** with a combined single limit of not less than \$1,000,000. Coverage must apply to the Proposer's owned, hired, and non-owned vehicles and protect BPCA, BPCPC, and the State of New York as additional insured.
- **Workers' Compensation, Employer's Liability, and Disability Benefits** shall not be less than statutory limits, including United States Longshore and Harbor Workers Act coverage as applicable to the operations of the Proposer.
- **Umbrella Liability Insurance** at a limit not less than \$5,000,000 per occurrence and in the aggregate. BPCA, BPCPC, and the State of New York must be protected as additional insureds on policies held by the selected Proposer and any of its subcontractors.
- **Builder's Risk / Installation Floater Insurance** in an amount not less than 100% of the full contract price. Coverage must be written on ISO Special Form CP 10 30 04 02 or its equivalent on a completed value non-reporting basis and provide coverage for the Proposer, all subcontractors, BPCA, BPCPC, and the State of New York. Coverage must apply to property while on site, off site, and in transit, include an agreed amount provision which eliminates any coinsurance provision, and include BPCA as a loss payee. Coverage must include the insurable interests of all subcontractors retained by the Proposer.

C. Insurance Requirements for all Subcontractors

Any subcontractor(s) utilized by the selected Proposer will be required to obtain the types and amounts of insurance listed below: (i) as a condition of commencing any Work; and (ii) continuing throughout the duration of the subcontractor's Work. The insurance policies listed below must also conform to the applicable terms of the Contract, as shown in BPCA's sample form of contract attached as Exhibit H:

- **Commercial General Liability Insurance**, written on ISO Form CG 00 01 or its equivalent and with no modification to the contractual liability coverage provided therein, shall be provided on an occurrence basis and limits shall not be less than:
 - \$1,000,000 per occurrence
 - \$2,000,000 general aggregate which must apply on a per location / per project basis
 - \$2,000,000 products/completed operations aggregate

BPCA, BPCPC, and the State of New York must be protected as additional insureds on ISO Form CG 2010 (11/85) or its equivalent on policies held by all subcontractors. Should the subcontractor's work include construction activities of any kind then the subcontractor must maintain Products / Completed Operations coverage for no less than three years after the construction work is completed and continue to include Additional Insured protection for BPCA, BPCPC & the State of New York for the prescribed timeframe. When providing evidence of insurance the subcontractor must include a completed Acord 855 NY form.

- **Automobile Liability Insurance** with a combined single limit of not less than \$1,000,000. Coverage must apply to the subcontractor's owned, hired, and non-owned vehicles and protect BPCA, BPCPC, and the State of New York as additional insured.

- **Workers' Compensation, Employer's Liability, and Disability Benefits** shall not be less than statutory limits, including United States Longshore and Harbor Workers Act coverage as applicable to the operations of the subcontractor.
- **Subcontractors will also be required to obtain all other insurances listed in Section (2) unless otherwise approved in writing by BPCA prior to commencement of any Subcontractor's work.**

Provide a letter from your surety(ies) stating that you are able to provide a payment and performance bond as required in the standard form of contract (Exhibit C).

VIII. COST PROPOSAL: FORMAT AND REQUIRED INCLUSIONS

Each Cost Proposal must state a LUMP-SUM cost for the performance of all Work and include each of the following:

- 1) Proposer must submit with its Cost Proposal an itemized cost for the Work, according to the Bid Breakdown attached to this RFP as Exhibit F. The total sum of these items will be equivalent to the Base Proposal.
- 2) Proposer must submit with its Cost proposal a completed Form of Unit Pricing according to the attached Unit Pricing Form attached to this RFP as Exhibit G.
- 3) Proposer must submit with its Cost Proposal a completed Form of Technical Salaries, showing labor rates for all trades, including all costs except overhead and profit. Prices shown should include base hourly rates, overtime rates, insurance and benefits. The Labor Rates Form is attached to this RFP as Exhibit H.

The Cost Proposal must be submitted in its own separate, sealed envelope within the sealed package containing all other Proposal documents. Please provide six (6) copies of the Cost Proposal.

IX. SELECTION PROCESS

A. Evaluation

Each timely submitted Proposal will be reviewed for compliance with the form and content requirements of this RFP. A committee of BPCA employees selected by BPCA (the "Committee") will then review and evaluate the Proposals in accordance with the evaluation criteria set forth below. While only Committee members will score the evaluation criteria, the Committee may consult an outside expert for advisement on the evaluation of matters requiring technical expertise. Before final selection, BPCA must determine that the proposed selected Proposer is responsible, in accordance with applicable law and BPCA's Procurement Guidelines, which may be viewed at: <http://bpca.ny.gov/public-information/>.

B. Interviews

BPCA reserves the right to decide whether to interview any or all of the Proposers. The Committee may conduct interviews for many reasons, including to further assess a Proposer's ability to perform the Work or provide specific services, or to seek information related to any other evaluation criteria. The proposed

Lead PM, as well all other key personnel proposed to perform the Work, must be available to participate in the interview.

C. Evaluation Criteria for Selection

Selection will be based upon the following criteria:

1) Technical Evaluation:

- | | | |
|------|---|-----|
| i) | Experience/expertise in providing general construction services in connection with exterior site projects, projects performed in public parks and open spaces, and projects involving the fabrication, restoration and installation of public playground equipment, especially in New York City | 40% |
| ii) | Approach to work, including: <ul style="list-style-type: none">- Project methodology, sequencing and phasing;- Construction commencement and duration; and- Minimization of periods of inaccessibility to the public | 30% |
| iii) | Qualifications of assigned staff and subcontractors: | 20% |
| iv) | Response to Diversity Practices Questionnaire: | 10% |

2) Cost Proposal evaluation.

D. Basis for Contract Award

The Contract will be awarded to the highest technically rated Proposer whose Proposal is determined to be responsive and in the best interests of BPCA, subject to a determination that the Cost Proposal is fair, reasonable, and provides the best value to BPCA given the requirements of the project.

X. NON-COLLUSION

By submitting a Proposal, each Proposer warrants and represents that any ensuing Contract has not been solicited or secured directly or indirectly in a manner contrary to the laws of the State of New York, and that said laws have not been violated and shall not be violated as they relate to the procurement or the performance of the Contract by any conduct, including the paying or giving of any fee, commission, compensation, gift, or gratuity or consideration of any kind, directly or indirectly, to any member of the board of directors, employee, officer or official of BPCA.

XI. IRAN DIVESTMENT ACT

By submitting a Proposal or by assuming the responsibility of any Contract awarded hereunder, each Proposer certifies that it is not on the “Entities Determined To Be Non-Responsive Bidders/Offerers Pursuant to The New York State Iran Divestment Act of 2012” list (“Prohibited Entities List”) posted on the New York State Office of General Services website at: <http://www.ogs.ny.gov/about/regs/docs/ListofEntities.pdf> and further certifies that it will not utilize any subcontractor/consultant that is identified on the Prohibited

Entities List on this Contract. The selected Proposer agrees that should it seek to renew or extend any Contract awarded hereunder, it must provide the same certification at the time the Contract is renewed or extended. The selected Proposer also agrees that any proposed assignee of the Contract will be required to certify that it is not on the Prohibited Entities List before BPCA may approve a request for assignment of the Contract.

During the term of any Contract awarded hereunder, should BPCA receive information that a person (as defined in State Finance Law §165-a) is in violation of the above-referenced certifications, BPCA will review such information and offer the person an opportunity to respond. If the person fails to demonstrate that it has ceased its engagement in the investment activity which is in violation of the New York State Iran Divestment Act of 2012 within 90 days after the determination of such violation, then BPCA shall take such action as may be appropriate and provided for by law, rule, or contract, including, but not limited to, seeking compliance, recovering damages, or declaring the selected Proposer in default of the awarded Contract.

BPCA reserves the right to reject any request for renewal, extension, or assignment for an entity that appears on the Prohibited Entities List prior to the renewal, extension, or assignment of the Contract, and to pursue a responsibility review with the selected Proposer should it appear on the Prohibited Entities List hereafter.

XII. ENCOURAGING USE OF NEW YORK STATE BUSINESSES IN CONTRACT PERFORMANCE

New York State businesses have a substantial presence in State contracts and strongly contribute to the economies of the state and the nation. In recognition of their economic activity and leadership in doing business in New York State, Proposers for this Contract for commodities, services or technology are strongly encouraged and expected to consider New York State businesses in the fulfillment of the requirements of the Contract. Such partnering may be as subcontractors, suppliers, protégés or other supporting roles.

Proposers are strongly encouraged, to the maximum extent practical and consistent with legal requirements, to use responsible and responsive New York State businesses in purchasing commodities that are of equal quality and functionality and in utilizing services and technology. Furthermore, Proposers are reminded that they must continue to utilize small, minority and women-owned businesses, consistent with current State law.

Utilizing New York State businesses in State contracts will help create more private sector jobs, rebuild New York's infrastructure, and maximize economic activity to the mutual benefit of the contractor and its New York State business partners. New York State businesses will promote the contractor's optimal performance under the Contract, thereby fully benefiting the public sector programs that are supported by associated procurements.

Public procurements can drive and improve the State's economic engine through promotion of the use of New York businesses by its contractors. The State therefore expects bidders/proposers to provide maximum assistance to New York businesses in their contracts. The potential participation by all kinds of New York businesses will deliver great value to the State and its taxpayers.

Proposers can demonstrate their commitment to the use of New York State businesses by responding to the question below. Each proposer must include a response to this question with their proposal. Please note that a "yes" response requires supporting information. If yes, identify New York State businesses that will be used and attach identifying information.

Will New York State businesses be used in the performance of this contract? ☐ Yes ☐ No

EXHIBIT A
SCOPE OF WORK

I. Scope Elements

The selected Proposer shall provide all of the labor, materials and equipment necessary to perform the restoration of the Rockefeller Park Playground in accordance with the drawings and specifications attached hereto as Exhibit J (the “Construction Documents”). The selected Proposer shall, among other things:

- a) Attend a pre-construction Project kick-off meeting to be scheduled by the Project’s assigned construction manager (the “CM”).
- b) Mobilize to the Project Site to conduct a survey.
- c) Prepare a detailed pre-construction survey of the Site, with all existing playground equipment and furnishings, including documenting the dimensions of all posts and other timber items being replaced, all steel playground components and mesh panels being refurbished and painted, all plastic and nylon playground elements being replaced and/or reinstalled, various hardware, steel picket fences and utility services. Identification tags referencing the plan and elevation drawings shall be placed on all items being removed and repaired to identify the location for the reinstallation of the items. A detailed photo survey shall be completed as a part of the pre-construction survey.
- d) As an early action item, the selected Proposer shall prepare a construction schedule and phasing plan for the Project, in consultation with and subject to the approval of BPCA and the CM, that will provide for an expeditious completion of the Project, while minimizing periods of inaccessibility to the public.
- e) As an early action item, submit for review submittals/cut sheets for all long lead time items, and upon approval promptly order such items. Confirm the expected delivery date of the timbers and establish and coordinate a mobilization date that is contingent upon such delivery date.
- f) Mobilize to the Project Site and install a temporary 6’ tall barrier fence around the perimeter of the Project Site, and Type III Construction Barricades and/or other devices where necessary for work zone safety control.
- g) Perform pre-construction testing of the existing drainage system by flooding the Project Site in the presence of BPCA’s design engineer for the Project (“the Engineer”), the CM and BPCA’s designated Project Manager to identify pre-existing drainage issues, if any. Clean existing drainage, if necessary.
- h) Install a temporary silt fence and fabric covers for all existing drain inlets within the Project Site to protect existing drainage system.
- i) Remove and store existing benches, picnic tables, and other furnishings within the Project Site affected by the construction.
- j) Saw cut existing playground safety surface and underlayment to separate the gargoyle spray pool and baby water play areas from the areas that will receive a new safety surface and underlayment.
- k) Remove and dispose of the existing safety surface where indicated by the Construction Documents.
- l) Remove and dispose of the existing pavement underlayment and base material in the playground area, up to 8.00 inches thick, except at the gargoyle spray pool and baby water play areas.

- m) Remove and dispose of existing sandbox/playground sand where indicated by the Construction Documents.
- n) Remove, refurbish, repair, and store all existing steel and other playground elements to be repainted and reinstalled. All repairs and painting of steel shall be performed at the selected Proposer's shop. The selected Proposer shall inform the Engineer of the shop location and a schedule of the repair activities to facilitate in-shop inspections by the Engineer.
- o) Remove and dispose of 4.5", 6" or 8" Dia. and 8" x 8" square existing Alaskan Cedar laminated turned round timber posts at all play equipment, pergolas and carousel gazebo areas.
- p) Remove and dispose of all existing Alaskan Cedar laminated or solid wood elements including, but not limited to, beams, decking, steps, filler panels, pergolas and carousel gazebo.
- q) Replace steel sleeves and/or sleeve anchor bolts, if necessary as directed by the Engineer.
- r) Replace the existing drinking water fountains with new drain-free trough type fountains. Connect to existing water lines at each location.
- s) Furnish and install 4.5", 6" or 8" Dia. and 8" x 8" square Alaskan Cedar laminated turned round timber posts at all playground equipment, pergolas and carousel gazebo areas. Match existing post sizes and shapes.
- t) Repair existing pre-cast concrete tables/seats in-place.
- u) Place stabilized soil-aggregate subbase 4" thick as part of the underlayment for poured-in-place playground safety surface.
- v) Install new asphalt pavement underlayment 3" thick for poured-in-place safety surface.
- w) Install new poured-in-place safety surface, playground type.
- x) Repaint all playground steel elements after repairs are approved. Match existing colors or as directed by the Engineer.
- y) Reinstall previously removed, refurbished, repaired, and repainted existing steel and other elements, including all new hardware and suspension elements. Chain at "Clatter Bridge" to be replaced in kind with stainless steel chain.
- z) Furnish and install new Alaskan Cedar laminated or solid wood elements including, but not limited to, beams, decking, steps, filler panels, pergolas and carousel gazebo areas.
- aa) Repaint existing 4'0" high steel picket fence and gates surrounding the playground.
- bb) Repoint existing granite walls and seat walls at the gargoyle water play area.
- cc) Install new sandbox/playground sand – up to 12" thick as indicated on the Contract Documents.
- dd) Reinstall existing benches, and other furnishings affected by construction.
- ee) Remove all temporary safety and security devices.
- ff) Demobilize.

II. General Considerations

- a) During progression of the Project, the selected Proposer shall, at all times, keep the Project Site and adjacent premises free from materials, debris and rubbish and shall remove the aforementioned from any portion of the Project Site, if in the opinion of BPCA, such materials, debris, or rubbish constitutes a nuisance or is objectionable.

- b) The selected Proposer shall remove from the Project Site all of its surplus materials and temporary structures when there is no further need for them and shall restore the Project Site to its original condition.
- c) At the conclusion of the Project, all erection plant, tools, temporary structures, and materials belonging to the selected Proposer shall be promptly taken away, and the selected Proposer shall remove and promptly dispose of all water, dirt, rubbish or any other foreign substances.
- d) After completion of the Project, the selected Proposer shall clean and remove from all catch basins and manholes within the Project Site all materials and debris deposited therein as the direct result of its operations. No separate payment will be made for this work.

EXHIBIT B

CONTRACTOR REQUIREMENTS AND PROCEDURES FOR PARTICIPATION BY NEW YORK STATE-CERTIFIED MBEs/WBEs/SDVOBs AND EQUAL EMPLOYMENT OPPORTUNITIES FOR MINORITY GROUP MEMBERS AND WOMEN

NEW YORK STATE LAW

Pursuant to New York State Executive Law Article 15-A and Parts 140-145 of Title 5 of the New York Codes, Rules and Regulations BPCA is required to promote opportunities for the maximum feasible participation of New York State-certified MBEs/WBEs (collectively, “MWBE(s)”) and the employment of minority group members and women in the performance of BPCA contracts. Pursuant to New York State Executive Law Article 17-B and 9 NYCRR §252, BPCA recognizes its obligation under the law to promote opportunities for maximum feasible participation of certified SDVOBs.

Business Participation Opportunities for MWBEs

For purposes of this solicitation, BPCA hereby establishes the following MWBE participation goals based on the current availability of MWBEs:

Overall goal for total MWBE Participation: 30%

NYS-Certified Minority-Owned Business Enterprise (“MBE”) Participation: 15%

NYS-Certified Women-Owned Business Enterprise (“WBE”) Participation: 15%

A contractor (“Contractor”) on any contract resulting from this procurement (“Contract”) must document its good faith efforts to provide meaningful participation by MWBEs as subcontractors and suppliers in the performance of the Contract. To that end, by submitting a response to this RFP, the Proposer agrees that BPCA may withhold payment pursuant to any Contract awarded as a result of this RFP pending receipt of the required MWBE documentation. The directory of MWBEs can be viewed at: <https://ny.newnycontracts.com>. For guidance on how BPCA will evaluate a Contractor’s “good faith efforts,” refer to 5 NYCRR § 142.8.

The Proposer understands that only sums paid to MWBEs for the performance of a commercially useful function, as that term is defined in 5 NYCRR § 140.1, may be applied towards the achievement of the applicable MWBE participation goal. The portion of a contract with an MWBE serving as a supplier that shall be deemed to represent the commercially useful function performed by the MWBE shall be 60 percent of the total value of the contract. The portion of a contract with an MWBE serving as a broker that shall be deemed to represent the commercially useful function performed by the MWBE shall be the monetary value for fees, or the markup percentage, charged by the MWBE.

In accordance with 5 NYCRR § 142.13, the Proposer further acknowledges that if it is found to have willfully and intentionally failed to comply with the MWBE participation goals set forth in a Contract resulting from this RFP, such finding constitutes a breach of contract and BPCA may withhold payment as liquidated damages.

Such liquidated damages shall be calculated as an amount equaling the difference between: (1) all sums identified for payment to MWBEs had the Contractor achieved the contractual MWBE goals; and (2) all sums actually paid to MWBEs for work performed or materials supplied under the Contract.

By submitting a bid or proposal, a Proposer agrees to demonstrate its good faith efforts to achieve the applicable MWBE participation goals by submitting evidence thereof through the New York State Contract System (“NYSCS”), which can be viewed at <https://ny.newnycontracts.com>, provided, however, that a Proposer may arrange to provide such evidence via a non-electronic method by contacting Mr. Anthony Peterson at Anthony.peterson@bpca.ny.gov

or 212-417-2337. Please note that the NYSCS is a one-stop solution for all of your MBE/WBE and Article 15-A contract requirements. For additional information on the use of the NYSCS to meet the Proposer's MBE/WBE requirements, please see the attached MBE/WBE guidance from the New York State Division of Minority and Women's Business Development, "Your MWBE Utilization and Reporting Responsibilities Under Article 15-A."

Additionally, a Proposer will be required to submit the following documents and information as evidence of compliance with the foregoing:

- A. An MWBE Utilization Plan with their bid or proposal. Any modifications or changes to an accepted MWBE Utilization Plan after the Contract award and during the term of the Contract must be reported on a revised MWBE Utilization Plan and submitted to BPCA for review and approval.
- B. BPCA will review the submitted MWBE Utilization Plan and advise the Proposer of BPCA acceptance or issue a notice of deficiency within 30 days of receipt.
- C. If a notice of deficiency is issued, the Proposer will be required to respond to the notice of deficiency within seven (7) business days of receipt by submitting to Mr. Anthony Peterson at BPCA, by email at Anthony.peterson@bpca.ny.gov, a written remedy in response to the notice of deficiency. If the written remedy that is submitted is not timely or is found by BPCA to be inadequate, BPCA shall notify the Proposer and direct the Proposer to submit, within five (5) business days, a request for a partial or total waiver of MWBE participation goals. Failure to file the waiver form in a timely manner may be grounds for disqualification of the bid or proposal.
- D. BPCA may disqualify a Proposer as being non-responsive under the following circumstances:
 - 1) If a Proposer fails to submit an MWBE Utilization Plan;
 - 2) If a Proposer fails to submit a written remedy to a notice of deficiency;
 - 3) If a Proposer fails to submit a request for waiver; or
 - 4) If BPCA determines that the Proposer has failed to document good faith efforts.

The successful Proposer will be required to attempt to utilize, in good faith, any MBE or WBE identified within its MWBE Utilization Plan, during the performance of the Contract. Requests for a partial or total waiver of established goal requirements made subsequent to Contract Award may be made at any time during the term of the Contract to BPCA, but must be made no later than prior to the submission of a request for final payment on the Contract.

The successful Proposer will be required to submit a quarterly M/WBE Contractor Compliance & Payment Report to BPCA, by the 10th day following each end of quarter over the term of the Contract documenting the progress made toward achievement of the MWBE goals of the Contract.

Business Participation Opportunities for SDVOBs

For purposes of this solicitation, BPCA hereby establishes an overall goal of 6% for SDVOB participation. A Proposer must document good faith efforts to provide meaningful participation by SDVOBs as subcontractors or suppliers in the performance of the Contract and Proposer agrees that BPCA may withhold payment pending receipt of the required SDVOB documentation. The directory of New York State Certified SDVOBs can be viewed at: http://www.ogs.ny.gov/Core/docs/CertifiedNYS_SDVOB.pdf. For guidance on how BPCA will determine a Contractor's "good faith efforts," refer to 9 NYCRR §252.2(f)(2).

In accordance with 9 NYCRR §252.2(s), the Proposer acknowledges that if it is found to have willfully and intentionally failed to comply with the SDVOB participation goals set forth in the Contract, such finding constitutes a breach of Contract and Contractor shall be liable for damages as specified in the Contract.

Such damages shall be calculated based on the actual cost incurred by BPCA related to BPCA's expenses for personnel, supplies and overhead related to establishing, monitoring and reviewing certified SDVOB programmatic goals.

- A. Additionally, a Proposer agrees to submit a Utilization Plan with their bid or Proposal as evidence of compliance with the foregoing. Any modifications or changes to the Utilization Plan after the Contract award and during the term of the Contract must be reported on a revised Utilization Plan and submitted to BPCA.
- B. BPCA will review the submitted Utilization Plan and advise the Proposer of BPCA's acceptance or issue a notice of deficiency within 30 days of receipt.
- C. If a notice of deficiency is issued, Proposer agrees that it shall respond to the notice of deficiency within seven (7) business days of receipt by submitting to Mr. Anthony Peterson at BPCA, by email at Anthony.peterson@bpca.ny.gov, a written remedy in response to the notice of deficiency. If the written remedy that is submitted is not timely or is found by BPCA to be inadequate, BPCA shall notify the Proposer and direct the Proposer to submit, within five (5) business days, a request for a partial or total waiver of SDVOB participation goals. Failure to file the waiver form in a timely manner may be grounds for disqualification of the bid or Proposal.
- D. BPCA may disqualify a Proposer as being non-responsive under the following circumstances:
 - 1) If a Proposer fails to submit a Utilization Plan;
 - 2) If a Proposer fails to submit a written remedy to a notice of deficiency;
 - 3) If a Proposer fails to submit a request for waiver; or
 - 4) If BPCA determines that the Proposer has failed to document good faith efforts.

The successful Proposer shall attempt to utilize, in good faith, any SDVOB identified within its Utilization Plan, during the performance of the Contract. Requests for a partial or total waiver of established goal requirements made subsequent to the Contract award may be made at any time during the term of the Contract to BPCA, but must be made no later than prior to the submission of a request for final payment on the Contract.

The successful Proposer is required to submit a Contractor's SDVOB Contractor Compliance & Payment Report to BPCA on a monthly basis over the term of the Contract documenting the progress made toward achievement of the SDVOB goals of the Contract.

Equal Employment Opportunity Requirements

By submission of a bid or proposal in response to this solicitation, the Proposer agrees with all of the terms and conditions of the attached MWBE Equal Employment Opportunity Policy Statement. The Proposer is required to ensure that it and any subcontractors awarded a subcontract for the construction, demolition, replacement, major repair, renovation, planning or design of real property and improvements thereon (the "Work"), except where the Work is for the beneficial use of the Proposer, undertake or continue programs to ensure that minority group members and women are afforded equal employment opportunities without discrimination because of race, creed, color, national origin, sex, age, disability or marital status. For these purposes, equal opportunity shall apply in the areas of recruitment, employment, job assignment, promotion, upgrading, demotion, transfer, layoff, termination, and rates of pay or other forms of compensation. This requirement does not apply to: (i) work, goods, or services unrelated to the Contract; or (ii) employment outside New York State.

The Proposer will be required to submit a Minority and Women-owned Business Enterprise and Equal Employment Opportunity Policy Statement, Form # 4, to BPCA with its bid or proposal.

If awarded a Contract, Proposer shall submit a Workforce Utilization Report and shall require each of its Subcontractors to submit a Workforce Utilization Report, in such format as shall be required by BPCA on a monthly basis during the term of the Contract.

Pursuant to Executive Order #162, contractors and subcontractors will also be required to report the gross wages paid to each of their employees for the work performed by such employees on the contract utilizing the Workforce Utilization Report on a quarterly basis.

Further, pursuant to Article 15 of the Executive Law (the "Human Rights Law"), all other State and Federal statutory and constitutional non-discrimination provisions, the Contractor and sub-contractors will not discriminate against any employee or applicant for employment because of race, creed (religion), color, sex, national origin, sexual orientation, military status, age, disability, predisposing genetic characteristic, marital status or domestic violence victim status, and shall also follow the requirements of the Human Rights Law with regard to non-discrimination on the basis of prior criminal conviction and prior arrest.

Please Note: Failure to comply with the foregoing requirements may result in a finding of non-responsiveness, non-responsibility and/or a breach of the Contract, leading to the withholding of funds, suspension or termination of the Contract or such other actions or enforcement proceedings as allowed by the Contract.



Your MBE/WBE Utilization and Reporting Responsibilities Under Article 15-A

The New York State Contract System (“NYSCS”) is your one stop tool compliance with New York State’s MBE/WBE Program. It is also the platform New York State uses to monitor state contracts and MBE/WBE participation.

GETTING STARTED

To access the system, please login or create a user name and password at <https://ny.newnycontracts.com/FrontEnd/VendorSearchPublic.asp?TN=ny&XID=7562>. If you are uncertain whether you already have an account set up or still need to register, please send an email to the customer service contact listed on the Contact Us & Support page, or reach out to your contract’s project manager. For verification, in the email, include your business name and contact information.

VENDOR RESPONSIBILITIES

As a vendor conducting business with New York State, you have a responsibility to utilize minority- and/or women-owned businesses in the execution of your contracts, per the MBE/WBE percentage goals stated in your solicitation, incentive proposal or contract documents. NYSCS is the tool that New York State uses to monitor MBE/WBE participation in state contracting. Through the NYSCS you will submit utilization plans, request subcontractors, record payments to subcontractors, and communicate with your project manager throughout the life of your awarded contracts.

There are several reference materials available to assist you in this process, but to access them, you need to first be registered within the NYSCS. Once you log onto the website, click on the **Help & Support** >> link on the lower left hand corner of the Menu Bar to find recorded trainings and manuals on all features of the NYSCS. You may also click on the **Help & Tools** icon at the top right of your screen to find videos tailored to primes and subcontractors. There are also opportunities available to join live trainings, read up on the “Knowledge Base” through the Forum link, and submit feedback to help improve future enhancements to the system. Technical assistance is always available through the **Contact Us & Support** link on the NYSCS website (<https://ny.newnycontracts.com/FrontEnd/VendorSearchPublic.asp?TN=ny&XID=7562>).

For more information, contact your project manager.

MINORITY AND WOMEN-OWNED BUSINESS ENTERPRISES

EQUAL EMPLOYMENT OPPORTUNITY POLICY STATEMENT

MBE/WBE AND EEO POLICY STATEMENT

I, _____ (the "Contractor"), agree to adopt the following policies with respect to the project being developed at, or services rendered to, the Battery Park City Authority ("BPCA").

MBE/WBE

This organization will and will cause its contractors and subcontractors to take good faith actions to achieve the MBE/WBE contract participations goals set by the State for that area in which the State-funded project is located, by taking the following steps:

- (1) Actively and affirmatively soliciting bids for contracts and subcontracts from qualified State certified MBEs or WBEs, including solicitations to MBE/WBE contractor associations.
- (2) Requesting a list of State-certified MBEs/WBEs from BPCA and soliciting bids from these MBEs/WBEs directly.
- (3) Ensuring that plans, specifications, request for proposals and other documents used to secure bids will be made available in sufficient time for review by prospective MBEs/WBEs.
- (4) Where feasible, dividing the work into smaller portions to enhance participations by MBEs/WBEs and encourage the formation of joint venture and other partnerships among MBE/WBE contractors to enhance their participation.
- (5) Documenting and maintaining records of bid solicitation, including those to MBEs/WBEs and the results thereof. The Contractor will also maintain records of actions that its subcontractors have taken toward meeting MBE/WBE contract participation goals.
- (6) Ensuring that progress payments to MBEs/WBEs are made on a timely basis so that undue financial hardship is avoided, and that bonding and other credit requirements are waived or appropriate alternatives are developed to encourage MBE/WBE participation.

EEO

(a) This organization will not discriminate against any employee or applicant for employment because of race, creed, color, national origin, sex, age, disability or marital status, will undertake or continue existing diversity programs to ensure that minority group members are afforded equal employment opportunities without discrimination, and shall make and document its conscientious and active efforts to employ and utilize minority group members and women in its work force on State contracts.

- (b) This organization shall state in all solicitation or advertisements for employees that in the performance of the State contract all qualified applicants will be afforded equal employment opportunities without discrimination because of race, creed, color, national origin, sex disability or marital status.
- (c) At the request of BPCA, this organization shall request that each employment agency, labor union, or authorized representative will not discriminate on the basis of race, creed, color, national origin, sex, age, disability or marital status and that such union or representative will affirmatively cooperate in the implementation of this organization's obligations herein.
- (d) The Contractor shall comply with the provisions of the Human Rights Law, all other State and Federal statutory and constitutional non-discrimination provisions. The Contractor and subcontractors shall not discriminate against any employee or applicant for employment because of race, creed (religion), color, sex, national origin, sexual orientation, military status, age, disability, predisposing genetic characteristic, marital status or domestic violence victim status, and shall also follow the requirements of the Human Rights Law with regard to non-discrimination on the basis of prior criminal conviction and prior arrest.
- (e) This organization will include the provisions of sections (a) through (d) of this agreement in every subcontract in such a manner that the requirements of the subdivisions will be binding upon each subcontractor as to work in connection with the State contract.

Battery Park City Authority Request For Proposals

Agreed to this _____ day of _____, 20____

By _____

Print: _____ Title: _____

_____ is designated as the Consultant's Minority Business Enterprise Liaison responsible for administering the Minority and Women-Owned Business Enterprises - Equal Employment Opportunity (MBE/WBE - EEO) program.

MBE/WBE Contract Goals

30% Minority and Women's Business Enterprise Participation

____% Minority Business Enterprise Participation

____% Women's Business Enterprise Participation

EEO Contract Goals (if applicable)

____% Minority Labor Force Participation

____% Female Labor Force Participation

(Authorized Representative)

Title: _____

Date: _____

Diversity Practices Questionnaire

I, _____, as _____ (title) of _____ company (the "Company"), swear and/or affirm under penalty of perjury that the answers submitted to the following questions are complete and accurate to the best of my knowledge:

1. Does your Company have a Chief Diversity Officer or other individual who is tasked with supplier diversity initiatives? Yes or No

If Yes, provide the name, title, description of duties, and evidence of initiatives performed by this individual or individuals.

2. What percentage of your Company's gross revenues (from your prior fiscal year) was paid to New York State certified MBEs/WBEs as subcontractors, suppliers, joint-ventures, partners or other similar arrangement for the provision of goods or services to your Company's clients or customers?

3. What percentage of your Company's overhead (i.e. those expenditures that are not directly related to the provision of goods or services to your Company's clients or customers) or non-contract-related expenses (from your prior fiscal year) was paid to New York State certified MBEs/WBEs as suppliers/contractors?¹

4. Does your Company provide technical training² to MBEs/WBEs? Yes or No

If Yes, provide a description of such training which should include, but not be limited to, the date the program was initiated, the names and the number of MBEs/WBEs participating in such training, the number of years such training has been offered and the number of hours per year for which such training occurs.

5. Is your Company participating in a government approved M/WBE mentor-protégé program?

If Yes, identify the governmental mentoring program in which your Company participates and provide evidence demonstrating the extent of your Company's commitment to the governmental mentoring program.

6. Does your Company include specific quantitative goals for the utilization of MBEs/WBEs in its non-government procurements? Yes or No

If Yes, provide a description of such non-government procurements (including time period, goal, scope and dollar amount) and indicate the percentage of the goals that were attained.

7. Does your Company have a formal M/WBE supplier diversity program? Yes or No

If Yes, provide documentation of program activities and a copy of policy or program materials.

8. Does your Company plan to enter into partnering or subcontracting agreements with New York State certified MBEs/WBEs if selected as the successful Proposer? Yes or No

If Yes, complete the attached Utilization Plan

¹ Do not include onsite project overhead.

² Technical training is the process of teaching employees how to more accurately and thoroughly perform the technical components of their jobs. Training can include technology applications, products, sales and service tactics, and more. Technical skills are job-specific as opposed to soft skills, which are transferable.

Battery Park City Authority Request For Proposals

All information provided in connection with the Diversity Practices Questionnaire is subject to audit and any fraudulent statements are subject to criminal prosecution and debarment.

Signature of
Owner/Official
Printed Name of
Signatory
Title

Name of Business

Address

City, State, Zip

STATE OF _____

COUNTY OF _____) ss:

On the _____ day of _____, 2016, before me, the undersigned, a Notary Public in and for the State of _____, personally appeared _____, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to this certification and said person executed this instrument.

Notary Public

EXHIBIT C

(BPCA Sample Form of Contract)

(Attached)

CONSTRUCTION AGREEMENT

between

HUGH L. CAREY BATTERY PARK CITY AUTHORITY

and

[NAME OF COMPANY, INC. CORP, CO.]

Dated as of **[DATE]**

Contract No. **[ENTER CONTRACT NUMBER]**

(PROJECT NAME)

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 EXHIBIT F - INCIDENT REPORT FORM

CONSTRUCTION AGREEMENT

AGREEMENT made as of _____ by and between BATTERY PARK CITY AUTHORITY, d/b/a HUGH L. CAREY BATTERY PARK CITY AUTHORITY, (“BPCA”), a body corporate and politic, constituting a public benefit corporation and having a place of business at 200 Liberty Street, 24th Floor, New York, New York 10281, and [NAME OF COMPANY], formed under the laws of the State of [STATE], having an office at [Street Address, City, Zip Code] (“Contractor”).

W I T N E S S E T H:

WHEREAS, BPCA has fee title to certain real property located in the City, County and State of New York, generally consisting of approximately 92 acres of land located on the west side of lower Manhattan, bounded by Pier A to the South, the westerly extension of Reade Street to the North, the United States Bulkhead Line to the East and the United States Pierhead Line to the West (collectively, “Battery Park City”); and

WHEREAS, BPCA has caused the staged development of Battery Park City, in individual parcels, creating a richly diversified mixed use community providing residential and commercial space, with related amenities such as parks, plazas, recreational areas and a waterfront esplanade; and

WHEREAS, BPCA intends to hire a contractor to perform [type of services], consisting of the Work, as hereinafter defined, for the [structure] upon which work will be performed (the “Project”), located in and adjacent to [location], in Battery Park City, in the Borough of Manhattan, County, City and State of New York (the “Site”); and

WHEREAS, Contractor has been selected to perform the Work, upon the terms and conditions hereinafter provided; and

NOW, THEREFORE, in consideration of the mutual covenants hereinafter set forth, Contractor and BPCA hereby agree as follows:

ARTICLE 1 - DEFINITIONS

The following terms, wherever used in the Contract Documents, as defined herein, shall have the meanings set forth below or in the Section enumerated below next to each term:

- (a) Agreement - as defined in Section 2.2(a).
- (b) Agreement Termination Date - as defined in Section 3.1(a).
- (c) Architect - [include Name, Address, etc., as applicable].
- (d) Artist - [include Name, Address, etc., as applicable].
- (e) BPCA - as defined in the introductory clause of this Agreement. BPCA hereby designates [BPCA Person and Title], as the representative of BPCA for the purpose of acting on behalf

of BPCA whenever action is required to be taken hereunder by BPCA. Such designation may be revoked in writing at any time after notice given by BPCA to Contractor. In addition, such representative of BPCA shall have full power and authority to delegate in writing any or all of her responsibilities hereunder to any one or more persons after notice to Contractor.

- (f) Certificate of Substantial Completion - as defined in Section 8.6.
- (g) Change Order - as defined in Section 9.1(b).
- (h) Construction Manager - [include Name, Address, etc., as applicable].
- (i) Contract Documents - as defined in Section 2.2.
- (j) Contract Price - as defined in Article 4.
- (k) Contract Time - the duration of time during which Construction Manager schedules and coordinates the Work of Contractor pursuant to Section 7.2 hereof.
- (l) Contractor - as defined in the first Recital of this Agreement.
- (m) Drawings - Project drawings comprising part of Exhibit [x].
- (n) Engineer [include Name, Address, etc., as applicable].
- (o) Extra Work - any work in addition to the Work to be performed by Contractor pursuant to the Contract Documents.
- (p) Field Order - as defined in Section 9.3.
- (q) Final Acceptance - as defined in Section 8.7.
- (r) Final Requisition - as defined in Section 5.2.
- (s) Guarantor - as defined in Section 27.3.
- (t) Joint Venture - an entity created pursuant to a written agreement among two or more contractors pursuant to which each shares in the direction and performance of the Work and shares in a stated percentage of profits or losses.
- (u) Key Person/Personnel - as defined in Section 27.25.
- (v) Materialman - supplier of Materials.
- (w) Materials - all products, materials, fixtures, tools, equipment, apparatus, and furnishings intended to form a part of the Work.
- (x) Minority Business Enterprise or Minority Owned Business Enterprise or MBE - as defined in Article 26.

- (y) Minority or Minority Group Member - as defined in Article 26.
- (z) Notice to Proceed - a written directive from BPCA to Contractor signed by a duly authorized BPCA representative directing Contractor to begin performance of the Work set forth in this Agreement on a particular date.
- (aa) Payment Bond - as defined in Section 13.3.
- (bb) Performance Bond - as defined in Section 13.3.
- (cc) Preceding Covered Date - as defined in Section 5.5.
- (dd) Product Data - illustrations, standard schedules, performance charts, instructions, brochures, diagrams and other information furnished by Contractor to illustrate a Material, product or system for some portion of the Work.
- (ee) Progress Schedule for the Work - as defined in Section 3.1(a).
- (ff) Project - as defined in the third Recital of this Agreement.
- (gg) Purchase Order - as defined in Section 10.1(e).
- (hh) Requisitions - as defined in Section 5.2.
- (ii) Samples - physical examples which illustrate Materials or workmanship and establish standards by which the Work will be judged.
- (jj) Site - as defined in the third Recital of this Agreement.
- (kk) Specifications - the specifications comprising part of Exhibit [x].
- (ll) Subcontract - an agreement between the Contractor and a Subcontractor (as defined in subsection (mm) below) for work on the Site.
- (mm) Subcontractor - a person, firm, partnership or corporation under contract with Contractor.
- (nn) Term - as defined in Section 3.1(a).
- (oo) Trade Payment Breakdown - as defined in Section 5.3.
- (pp) Women's Business Enterprise or Women Owned Business Enterprise or WBE - as defined in Article 26.
- (qq) Work - as defined in Section 2.1.
- (rr) Work Completion Date - as defined in Section 3.1(a).

ARTICLE 2 - SCOPE OF WORK, MATERIALS AND LABOR

2.1 Definition of Work

Contractor shall perform and complete (and shall cause all Subcontractors to perform and complete) for BPCA the work more particularly described in Exhibit A (the “**Work**”) annexed hereto and made a part hereof, required by and in conformity with the Contract Documents in connection with the construction of the Project on the Site. All materials to be furnished and labor and work to be performed and completed by Contractor and/or Subcontractors as required in the Contract Documents and in conformity with all requirements applicable with respect thereto are herein collectively referred to as the “Work.”

2.2 Contract Documents

The “**Contract Documents**” shall consist of the following:

(a) This instrument (the “**Agreement**”), which includes, in addition to the text comprising Articles 1 through 27, the following:

- (1) EXHIBIT A - SCOPE OF WORK (as applicable)
- (2) EXHIBIT B – DRAWINGS (as applicable)
- (3) EXHIBIT C – SPECIFICATIONS (as applicable)
- (4) EXHIBIT D - MONTHLY UTILIZATION COMPLIANCE REPORTS (as applicable)
- (5) EXHIBIT E - PROMPT PAYMENT POLICY (as applicable)
- (6) EXHIBIT F - INCIDENT REPORT FORM (as applicable)

(b) The Payment and Performance Bonds (as defined in Section 13.3).

(c) Change Orders adopted pursuant to Article 9.

The Contract Documents form the contract between BPCA and Contractor. References in the Contract Documents to “the Contract”, “this Contract” or “the Construction Contract” shall be deemed to include all of the Contract Documents. References to “this Agreement” or “the Agreement” shall refer to this instrument (including the Exhibits attached hereto), which is one of the Contract Documents.

2.3 Intent of Contract Documents

(a) The intent of the Contract Documents is to include in the Work all labor and materials, insurance, tools, equipment, permits, licenses, taxes, approvals, transportation, surveys, testing, field engineering and other professional services (other than the services of BPCA’s Architect, Construction Manager, Engineers, and attorneys, and the inspection, survey and testing services of BPCA) and any other items required to execute and complete the Work satisfactorily and in accordance with the Contract Documents. Contractor shall perform and complete the Work in accordance with the true intent and meaning of the Contract Documents and shall perform all Work incident thereto or as is usually performed in connection therewith or as is reasonably inferable therefrom, it being the intention that all work usually performed by the trade covered by

this Agreement and necessary to produce the intended result be performed by Contractor whether or not specifically covered by the Contract Documents.

(b) The Contract Documents are complementary and what is called for by one shall be as binding as if called for by all.

(c) If any conflicts or ambiguities are found in or between the Drawings and Specifications, or among any of the Contract Documents, they shall be brought to the attention of Construction Manager immediately for resolution. Architect and Construction Manager will interpret the Contract Documents so as to secure in all cases the most substantial and complete performance of the Work as is most consistent with the needs and requirements of the Work. In the event that Architect and Construction Manager disagree as to the interpretation of the Contract Documents, such dispute shall be presented to BPCA, which shall have sole authority to resolve the dispute.

(d) Addenda to parts of the Contract Documents are for the purpose of varying, modifying, rescinding or adding to the affected portion of the Contract Documents. All addenda should be read together with the portions of the Contract Documents to which they pertain. Where an addendum modifies a portion of a paragraph or a Section, the remainder of the paragraph or Section shall remain in force unless otherwise stated in the addendum.

(e) Captions, headings, cover pages, tables of contents and footnote instructions contained in the Contract Documents are inserted only to facilitate reference and for convenience and in no way define, limit or describe the scope, intent or meaning of any provision of the Agreement.

(f) Words and abbreviations which have well-known technical or trade meanings are used in the Contract Documents in accordance with such recognized meanings.

(g) Drawings and Specifications are complementary. Anything shown in the Drawings and not mentioned in the Specifications, or mentioned in the Specifications and not shown in the Drawings, shall have the same effect as if shown or mentioned in both.

(h) A typical or representative detail indicated on the Drawings shall constitute the standard for workmanship and Materials throughout corresponding parts of the Work. Where necessary, and where reasonably inferable from the Drawings or Specifications, Contractor shall adapt such representative detail for application to such corresponding parts of the Work. The details of such adaptation shall be subject to prior approval by Architect. Repetitive features shown in outline on the Drawings shall be in exact accordance with corresponding features completely shown.

(i) The layout of mechanical and electrical systems, equipment, fixtures, piping, ductwork, conduit, specialty items, and accessories indicated on the Drawings is diagrammatic, and all variations in alignment, elevation, and detail required to avoid interferences and satisfy Architectural and structural limitations are not necessarily shown. Actual layout of the Work shall be carried out without affecting the architectural and structural integrity and limitations of the Work and shall be performed in such sequence and manner as to avoid conflicts, provide clear access to all control points, including valves, strainers, control devices, and specialty items of

every nature related to such systems and equipment, obtain maximum headroom, and provide adequate clearances as required for operation and maintenance.

2.4 Completion of Drawings and Specifications

Contractor acknowledges that there are items of work which are not drawn or specified with complete detail in the Drawings and Specifications but which are required for the completion of the Work. Any such item, when identified as part of the reasonable development of the Work, shall be drawn or specified by Architect in consultation with Contractor, in a manner consistent with contemplated kind and quality and customary standards. When such drawing or specification is approved by BPCA, the drawing or specification so approved shall thereupon be part of the Contract Documents and the item of work shall be performed by Contractor as part of the Work without further action or order of Construction Manager or BPCA and without any increase in the Contract Price (as hereinafter defined) as if such drawing and/or specification were originally included in the Contract Documents.

2.5 Title to Materials

Title to all Materials shall immediately vest in BPCA upon payment in respect of such Materials, whether or not then incorporated or installed into the Project. The Materials shall then become the sole property of BPCA subject to the right of BPCA, Construction Manager or Architect to reject same for failure to conform to the standards of any or all of the Contract Documents. Title to all Work and Materials shall be in BPCA, free and clear of all liens, claims, security interests or encumbrances. Contractor warrants that no Work or Materials shall be fabricated or delivered to the Site by Contractor or any Subcontractor or Materialman subject to any security interest, lien or similar encumbrance.

2.6 Contractor's Obligations

(a) Contractor shall in a good and workmanlike manner perform all the Work required by this Agreement in accordance with the best practice of Contractor's trade within the time specified herein. Contractor shall supervise and direct the Work using its best skill and attention. Contractor shall be solely responsible for all construction means, methods, techniques, sequences and procedures within the scope of Contractor's Work.

(b) Contractor shall furnish, erect, maintain, and remove such construction plant and such temporary Work as may be required for the performance of the Work. Contractor shall be responsible for the safety, efficiency and adequacy of Contractor's plant, appliances and methods, and for damage that may result from failure or improper construction, maintenance or operation of such plant, appliances and methods. Contractor shall comply with all terms of the Contract Documents, and shall do, carry on and complete the entire Work under the direction of and to the satisfaction of BPCA.

(c) Contractor shall provide all equipment, tools and materials and whatever else may be required for proper performance of the Work unless stated otherwise in the Contract Documents.

(d) Contractor shall deliver all Materials at such times and in such quantities as will insure the speedy and uninterrupted progress of the Work. All Materials shall be delivered to the Site in proper order and quantity and shall be stored at the Site, if storage space is available in Construction Manager's opinion, in such places as Construction Manager shall direct; provided, that no delivery of Materials shall be made to the Site without prior approval by Construction Manager. Contractor has been advised and is aware that the Project is located in a congested metropolitan area, and there may not be sufficient space to store Materials on Site. If storage space is unavailable on Site, Contractor shall make arrangements to store Materials off Site at Contractor's own cost. Contractor shall not be entitled to additional compensation for moving Materials from one storage area to another, whether such storage areas are on or off Site. No Materials shall be removed from the Site without the consent of Construction Manager. Contractor shall handle and take care of all Materials used in performance of the Work whether furnished by Contractor or BPCA, as the same are delivered to the Site or to any applicable offsite storage location and shall be solely responsible for the security and condition of the same. After final completion and acceptance of the Work, or sooner if requested by Construction Manager, Contractor shall remove all surplus Materials and scaffolding furnished by it which have not been incorporated in the Work.

(e) Contractor shall follow and perform the Work in accordance with the Contract Documents as interpreted by Architect, Construction Manager, and BPCA.

(f) Unless otherwise provided in the Contract Documents, Contractor shall secure and pay for all permits and governmental fees, licenses and inspections necessary for the proper execution and completion of the Work. Contractor shall give all notices and comply with all laws, ordinances, rules, regulations and lawful orders of any public authority bearing on the performance of the Work. If Contractor observes that any of the Contract Documents are at variance with any applicable laws in any respect, Contractor shall promptly notify Architect and Construction Manager in writing, and any necessary changes shall be accomplished by appropriate modification. If Contractor performs any Work knowing it to be contrary to such laws, ordinances, rules and regulations, and without such notice to Architect and Construction Manager, Contractor shall assume full responsibility therefor and shall bear all costs attributable thereto.

(g) Contractor shall be responsible for collecting all paper, cartons and other debris caused by its Work or personnel, placing the same in a location designated by Construction Manager and keeping the portion of the Site upon which Contractor is performing the Work free from all debris.

(h) Contractor shall attend meetings as directed by BPCA or Construction Manager.

2.7 *"Or Equal" Clause*

(a) The Materials of manufacturers referred to in the Specifications and on the Drawings are intended to establish the standard of quality and design required by Architect; however, Materials of manufacturers, other than those specified, may be used if equivalent and approved by Architect, Construction Manager and BPCA.

(b) It is deemed that the term "or approved equal" is included after all Materials

referred to in the Specifications or on the Drawings.

(c) Architect will initially judge the equivalency of proposed substitute Materials. Architect will make written recommendation of acceptance or rejection to Construction Manager and/or BPCA. Construction Manager and/or BPCA will then authorize Architect to issue to Contractor written approval or rejection of the substitution.

(d) If Contractor desires to use a substitute item, Contractor shall make application to Architect in writing in sufficient time (with regard to the progress of the Work, the period of delivery of the goods concerned and adequate time for Architect's review) stating and fully identifying the proposed substitute, cost changes (if any), and submitting substantiating data, samples, brochures of the item proposed. It is Contractor's responsibility to provide at its sole expense sufficient evidence by tests or other means to support any request for approval of substitutions.

(e) Prior to proposing any substitute item, Contractor shall satisfy itself that the item Contractor proposes is, in fact, equal to that specified and had been used satisfactorily in similar applications to the application proposed for the Work, for at least three years, that it will fit into the space allocated and within the load allocated for the same, that it affords comparable ease of operations, maintenance and service, that its appearance, longevity and suitability for the climate and use are comparable to that specified, and that the substitution requires no change in dimension or design of any other Work of Contractor, of any other contractor or in the time required for the performance thereof.

(f) The burden of proof that a proposed substitution is equal to a specified item shall be upon Contractor, who shall support its request with sufficient test data and other means to permit Architect to make a fair and equitable decision on the merits of the proposal. Any item by the manufacturer other than those cited in the Contract Documents, or of brand name or model number or of generic species other than those cited in the Contract Documents, will be considered a substitution.

(g) Acceptance of substitutions shall not relieve Contractor from responsibility for compliance with all the requirements of the Contract Documents. If, notwithstanding the provisions of subsection (e) above, changes in other parts of the Work or the work of other contractors are required by its substitutions, Contractor shall be responsible for the costs of any such changes including the cost of all design and redesign services related thereto incurred by the Architect and its Contractors.

(h) The Contract Time shall not be extended by any circumstances resulting from a proposed substitution, nor shall Contractor be entitled to any compensation for any delay caused thereby or related thereto.

2.8 Quality and Labeling

All Materials furnished shall be new and the quality thereof shall be in accordance with the Contract Documents. When Materials are specified to conform to a given standard, the Materials delivered to the Site shall bear manufacturer's labels stating that the Materials meet such standard. The above requirements shall not restrict or affect BPCA's right to test Materials as provided in

this Agreement.

ARTICLE 3 - COMMENCEMENT AND COMPLETION OF THE WORK

3.1 Commencement, Completion and Progress Schedule

(a) Contractor shall prepare and submit a progress schedule for the Work (“**Progress Schedule for the Work**”) and agrees to be bound by and comply with the Work Completion Date and the Progress Schedule for the Project (as the Progress Schedule for the Project shall be updated pursuant to subsection (b)) and waives any right to charge or claim damages or any increased cost, charges or expenses against BPCA, Construction Manager, or Architect, for delays or disruptions from any cause whatsoever. Contractor’s sole remedy as against BPCA, Construction Manager, or Architect for any delays or disruptions shall be as provided in Section 3.4 hereof. Notwithstanding the foregoing, the Work shall be completed by no later than [date] (the “**Work Completion Date**”) with time being of the essence in respect of said Work Completion Date, as more fully set forth in subsection (h) below; this Agreement shall terminate by [date] (the “**Agreement Termination Date**”) (the period between the date of commencement of the Work and the Agreement Termination Date, the “**Term**”).

(b) The Progress Schedule for the Work shall be formatted in a detailed precedence-style critical path method, or such other format satisfactory to BPCA and Construction Manager and shall also (a) provide a graphic representation of all activities and events including float values that will affect the critical path of the Work, (b) incorporate and coordinate all pertinent information involving each phase of Work, and (c) identify dates that are critical to ensuring the timely and orderly completion of the work in accordance with the requirements of the Contract Documents, including the dates for Substantial Completion of each respective phase of the Work. The Progress Schedule for the Work shall be updated weekly, or at any other time at the request of Construction Manager or BPCA, and submitted to Construction Manager and BPCA for review and approval. Failure to submit any requested update shall constitute a material breach of this Agreement. The Contractor shall promptly give written notice of any actual or potential delays to BPCA and Construction Manager. After submission of the Progress Schedule for the Work, Construction Manager shall coordinate the Progress Schedule for the Work with the Progress Schedule for the Project. The Progress Schedule for the Work may be revised by Construction Manager from time to time.

(c) Contractor shall commence the Work upon receipt of a written notice to proceed signed by BPCA (the “**Notice to Proceed**”), and shall prosecute the Work diligently and in accordance with the time and place requirements of the Project as determined and directed by Construction Manager, by using such means and methods of construction as will assure that the Work will be performed hereunder in accordance with the Contract Documents and Progress Schedule for the Work, and to the satisfaction of BPCA, Architect, and Construction Manager.

(d) If, in the opinion of Construction Manager, Contractor falls behind the Progress Schedule for the Project then in effect, Contractor shall take whatever steps may be necessary to improve its progress and shall, if requested by Construction Manager, submit operational plans to demonstrate the manner in which the lost time may be regained. It is the responsibility of Contractor to maintain its schedule so as not to delay the progress of the Project or the schedules

of other contractors. If Contractor delays the progress of its Work or the work of other contractors, it shall be the responsibility of Contractor to increase the number of workers, the number of shifts, the days of Work and/or, to the extent permitted by law, to institute or increase overtime operations, all without additional cost to BPCA, in order to regain any time lost and maintain the Progress Schedule for the Project then in effect as established by Construction Manager.

(e) If Contractor shall fail to complete the Work by the Work Completion Date, or within the time to which such completion may have been extended, BPCA may, at its option, withhold from any sums otherwise due and owing to Contractor hereunder, so much of the balance thereof as BPCA shall deem necessary to secure it against any costs, expenses, or damages which may be incurred by BPCA as a result of said failure, but any such withholding shall not be deemed to be a waiver of any rights hereunder, and Contractor shall be liable to and shall indemnify and hold BPCA harmless from any and all cost, expense or damage incurred by BPCA by reason of such failure.

[(f) If Contractor shall neglect, fail or refuse to complete the Work on or before the Work Completion Date or any changes thereto in accordance with, or upon the expiration of, any proper extension granted by BPCA, Contractor agrees to pay to BPCA (\$\$\$\$\$), not as a penalty, **but as liquidated** damages for loss of beneficial use of the Project, for each and every calendar day that the Contractor is in default. Default shall include abandonment of the Work by Contractor.] **[delete if no liquidated damages]**

(g) [Said amount of liquidated damages is agreed upon by and between Contractor and BPCA because of the impracticability and extreme difficulty of fixing and ascertaining the actual damages which BPCA would sustain for loss of beneficial use of the Project in the event of delay in completion, and said amount is agreed to be the amount of damages sustained by BPCA and said amount may be retained from time to time by BPCA. The foregoing liquidated damages are intended to compensate BPCA only for the loss of beneficial use of the Project. In addition,] **[delete if no liquidated damages]** Contractor shall be liable to BPCA, to the fullest extent permitted by law, for whatever actual damages (other than actual loss of beneficial use) BPCA may incur as a result of any actions or inactions of Contractor or its Subcontractors including, without limitation, interest expense and carrying costs, liabilities to other Contractors working on the Project or other third parties, job extension costs, and other losses incurred by BPCA. The provisions of this paragraph are exclusive to BPCA, and shall not accrue to other contractors or third parties.

(h) It is further agreed that time is of the essence for each and every portion of the Work. In any instance in which additional time is allowed for the completion of any Work, the new time of completion established by said extension shall be of the essence. Contractor shall not be charged with [liquidated damages or] **[delete if no liquidated damages]** any excess cost if BPCA determines that Contractor is without fault and that the delay in completion of the Work is due to:

(1) any preference, priority or allocation order duly issued by the Government of the United States or the State of New York;

(2) an unanticipated cause beyond the control and without the fault of, or

negligence of Contractor, and approved by BPCA, including, but not limited to, acts of God or of public enemy, fires, epidemics, quarantine, strikes, freight embargoes and unusually severe weather; and

(3) any delays of Subcontractors or Materialmen occasioned by any of the causes specified in subsections 1 and 2 of this paragraph.

(i) Notwithstanding the foregoing, and whether or not, at any given time, a Progress Schedule, or update thereto (as appropriate) has been submitted, the Work shall be completed by the Work Completion Date.

(j) Notwithstanding anything to the contrary, a schedule submitted by Contractor showing a time of completion earlier than that specified in the Contract shall not entitle Contractor to any additional compensation in the event the earlier time of completion is not realized.

3.2 Coordination with Other Contractors

Contractor shall coordinate the Work to be performed hereunder with the work of other contractors performing work for the Project in such manner as Construction Manager shall direct. Contractor shall indemnify and hold BPCA, Construction Manager, and Architect harmless from any and all claims or judgments for damages, costs and expenses to which BPCA, Construction Manager or Architect may be subjected or which they may suffer or incur by reason of Contractor's failure to promptly comply with Construction Manager's directions. If Contractor notifies Construction Manager in writing that another contractor is failing to coordinate its work with the Work to be performed hereunder, Construction Manager shall promptly investigate the charge. If Construction Manager finds that charge to be true, it shall promptly issue such direction to the other contractor with respect thereto as the situation may require. BPCA, Construction Manager and Architect shall not, however, be liable for any damages suffered by Contractor by reason of the other contractor's failure to promptly comply with the directions so issued by Construction Manager or by reason of another contractor's default in performance. Should Contractor sustain any damage through any act or omission of any other contractor, Contractor shall have no claim against BPCA, Construction Manager or Architect for such damage but shall have a right to recover such damage from the other contractor, under a provision similar to a provision contained in the following sentence which is part of this Agreement and which has been or will be inserted in the contracts with the other contractors engaged in the Project.

Should any other contractor having or who shall hereafter have a contract with BPCA for the performance of work upon the Project sustain any damage through any act or omission of Contractor hereunder, Contractor shall reimburse such other contractor for all such damages and to indemnify and hold BPCA, Construction Manager and Architect harmless from all such claims. Any claim against a performance bond surety made by any contractor shall be subordinated to any claim of BPCA then existing or that may arise in the future against such other contractor or its performance bond surety.

3.3 Notice of Delay

Should Contractor be or anticipate being delayed or disrupted in performing the Work hereunder for any reason, including, without limitation, its financial condition or Contractor's

general nonpayment of its debts as such debts become due, it shall promptly and in no event more than three (3) days after the commencement of any condition that is causing or is threatening to cause such delay or disruption notify Construction Manager in writing of the effect of such condition upon the Progress Schedule for the Project, stating why and in what respects the condition is causing or is threatening to cause delay, provided, however, that notwithstanding the above, if such delay or disruption, or anticipated delay or disruption, should be the result of any change or anticipated change in Contractor's financial condition, Contractor shall notify Construction Manager forthwith of such cause or anticipated cause. Failure to strictly comply with this notice requirement shall be sufficient cause to deny Contractor a change in schedule and to require it to conform to the Progress Schedule for the Project then in effect established by Construction Manager.

3.4 Extension of Time

(a) An extension of time under the Progress Schedule for the Project then in effect may be granted by BPCA subject to the provisions hereof upon written application therefor by Contractor. An application for an extension of time under the Progress Schedule for the Project then in effect must set forth in detail the nature of each cause of delay in the performance of the Work, the date or dates upon which each cause of delay began and ended and the number of days delay attributable to each such cause. After the application is submitted, Contractor shall supply any other data that Construction Manager may request.

(b) Contractor shall be entitled to an extension of time under the Progress Schedule for the Project then in effect for delays in the performance of the Work, if caused:

(1) solely by unanticipated acts or omissions of BPCA, Construction Manager or Architect; or

(2) by the unanticipated acts or omissions of other contractors or unanticipated causes beyond the control and without the fault or negligence of Contractor including, but not limited to, acts of God, acts of public enemy, acts of any Government body, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, unusually severe weather, or delays of Subcontractors or Materialmen arising from unforeseeable causes beyond the control and without the fault or negligence of both Contractor and such Subcontractors or Materialmen; provided, that Contractor shall have used its best efforts and diligently sought to have minimized any such period of delay, by taking whatever measures are necessary, including without limitation, if applicable, seeking alternate sources of Materials, other Subcontractors or other facilities in which to perform the required construction operations; and provided, further, that an application is made pursuant to the requirements of the immediately preceding paragraph.

ARTICLE 4 - CONTRACT PRICE

For the performance and completion of the Work, BPCA shall pay Contractor a lump sum amount of (\$\$\$\$), (such sum is herein sometimes referred to as the "**Contract Price**"), which amount shall include any monies earned by or paid to Contractor prior to the execution of this Agreement, provided, that if the Contract Price shall be expressly revised by a Change Order in accordance with Article 9 hereof, the Contract Price shall thereafter mean the Contract Price as so

revised. Contractor will submit appropriate Time Sheets in the form of Exhibit [x].

ARTICLE 5 - METHOD, SCHEDULE AND TERMS OF PAYMENTS

5.1 Partial Payment

(a) In accordance with Requisitions (as defined in Section 5.2) submitted and approved as provided below for Work performed in accordance with this Agreement, Contractor shall be entitled to partial payment on account of the Contract Price in an amount equal to the value, as determined in accordance with the Trade Payment Breakdown (as defined in Section 5.3), of the portions of the Work completed and acceptable to BPCA and Construction Manager for purposes of such payment, less a retainage equal to ten percent (10%) of the total amount of all prior partial payments. Partial payments shall constitute advances against the Contract Price until final payment is made and accepted. No partial payment made, nor approval of a portion of the Work given for purposes of making a partial payment, shall constitute an acceptance of any Work not in accordance with the Contract Documents.

(b) Upon completion of fifty percent of the Work, Contractor may make written application to BPCA requesting reduction of the retainage set forth in Section 5.1(a) hereof. Approval of such reduction of retainage and the percentage to which the retainage shall be reduced is in the sole discretion of BPCA. If BPCA approves a reduction of retainage as herein described, BPCA shall so notify Contractor in writing. Any reduction of retainage pursuant to this paragraph (b) shall not be deemed to be a waiver of retainage requirements for future partial payments.

5.2 Requisitions

Applications for partial payments (“**Requisitions**”) and application for final payment (“**Final Requisition**”) shall be in the form previously supplied by BPCA and shall be submitted by Contractor to Construction Manager or its designee in five original copies in the manner hereinafter provided for the approval of BPCA and Construction Manager. Each Requisition shall be supported by such data substantiating Contractor’s right to payment as BPCA and Construction Manager may require.

5.3 Trade Payment Breakdown

Prior to the submission of the first Requisition, Contractor shall present to Construction Manager for approval a trade payment breakdown (the “**Trade Payment Breakdown**”) of the various portions of the Work, aggregating the Contract Price, prepared in such form as specified by BPCA and supported by such data to substantiate its correctness as Construction Manager may require. After approval by BPCA and Construction Manager, the Trade Payment Breakdown shall not be changed or revised in any way without the written consent of Construction Manager. The Trade Payment Breakdown, when approved by Construction Manager, shall be used only as a basis for Requisitions and shall not be considered as a basis for reducing or increasing the Contract Price.

5.4 Payment for Stored Materials

If approved in advance of delivery by BPCA and Construction Manager, payments will be

made on account of 80% of the value of Materials that have not been incorporated in the Work to date, but delivered and suitably stored at the Site or at some other offsite location agreed upon in writing by BPCA and Construction Manager. Such payments shall be conditioned upon submission by Contractor of bills of sale or other supporting documentation satisfactory to BPCA and Construction Manager to establish BPCA's title to such Materials including applicable insurance and transportation to the Site for those Materials stored offsite. In the event that Contractor, with approval of BPCA, stores any Materials offsite, the conditions for payment of Material stored off-site shall include but not be limited to the following: (a) the Material shall be properly stored in a secured location approved by the BPCA and/or Construction Manager; (b) the Material will be covered under the BPCA's builder's risk policy subject to policy limits and restrictions; and (c) the Material may be inspected by the BPCA and /or Construction Manager to assure compliance with Contract Documents.

5.5 Receipts and Releases of Liens

With each Requisition, Contractor shall furnish its affidavit of payment and waiver of lien for Work done and Materials furnished through the date covered by the last preceding partial payment (the "**Preceding Covered Date**") and shall furnish its affidavit certifying that all Subcontractors and Materialmen have been paid for Work performed and Materials furnished through the Preceding Covered Date except for any permitted retainage. BPCA may also require Contractor to attach to each Requisition (i) affidavits of payment and waivers of lien from all Subcontractors and Materialmen dealing directly or indirectly with Contractor for Work performed and Materials furnished through the Preceding Covered Date and/or (ii) the consent of the surety issuing the Payment Bond to such payment. BPCA may require Contractor to execute a waiver of lien at the time payment is made for a Requisition for all Work performed through the date of the Requisition in respect of which payment is being made.

In addition to the documents required to be furnished by the preceding paragraph, with the Final Requisition, Contractor shall furnish (y) its affidavit that there are no liens, claims or demands by, and that there is no indebtedness to, Subcontractors, Materialmen, laborers, other employees or third persons for which BPCA, Construction Manager, or Architect might in any way be responsible and (z) releases from all Subcontractors and Materialmen dealing directly or indirectly with Contractor. Should any such Subcontractor or Materialman fail or refuse to furnish such release, Contractor may be required to furnish a bond satisfactory to BPCA to indemnify it against any such lien, claim or demand. If any such lien, claim or demand remains unsatisfied after all payments are made to Contractor, Contractor shall refund to BPCA all monies that BPCA may be compelled to pay in discharging such lien, claim or demand including all costs, expenses and attorneys' fees which BPCA may incur in connection therewith.

5.6 Time of Payment

Requisitions shall be submitted by Contractor to BPCA and Construction Manager by the seventh day of each calendar month for Work completed up to the last calendar day of the previous month or other day approved by BPCA, and payment shall be made (pursuant to BPCA's Prompt Payment Policy, a copy of which is attached hereto and made part hereof as Exhibit E) on or about twenty days after BPCA receives the Requisition together with the documents required pursuant to Sections 5.2 and 5.5 hereof. Contractor shall be entitled to payment only in the amount approved

by BPCA and Construction Manager with respect to such Requisitions, each of which must be signed by BPCA and Construction Manager before payment is made. The value of any Work included in a Requisition for partial payment which is found unacceptable by BPCA or Construction Manager may be deducted from that or any subsequent Requisition.

5.7 Reduction of Retainage

Upon the issuance of a Certificate of Substantial Completion, as defined in Section 8.6, Contractor shall submit a Requisition in an amount equal to the Contract Price less five percent (5%) of the total contract amount (including all approved Change Orders and pending Change Order proposals), and less the total amount of all prior payments. Upon approval of the same by BPCA, BPCA shall pay to Contractor the amount approved less any amount which BPCA is entitled to withhold hereunder.

5.8 Final Payment

(a) The final balance due Contractor under this Agreement shall be payable to Contractor by BPCA, as final payment hereunder, within thirty days after all of the following have taken place:

- (1) Contractor's Final Requisition has been submitted by Contractor and approved by BPCA and Construction Manager;
- (2) the affidavit provided for in Section 5.5 hereof has been submitted by Contractor, and any other documents or actions expressly specified in the Contract Documents as preconditions to final payment have been submitted or completed; and
- (3) any inspections or approvals with respect to any of the Work that BPCA deems legally required or appropriate by governmental authorities or by the applicable Board of Fire Underwriters have been performed or obtained.

(b) The acceptance of final payment shall constitute a waiver of all claims by Contractor.

5.9 Release and Consent of Surety

Notwithstanding any other provision of this Agreement, before final payment pursuant to Section 5.8 shall become due pursuant hereto or before reduction of retainage, Contractor shall submit to BPCA a consent of surety to final payment or reduction of retainage in form and substance acceptable to BPCA.

5.10 BPCA's Right to Audit and Inspect Records

Contractor shall maintain and shall keep for a period of at least six years after the date of Final Acceptance of the Work, pursuant to Section 8.7, all records and other data relating to the Work. BPCA or its designee shall have the right to inspect and audit all records and other data of Contractor relating to the Work at any time and from time to time until the end of such six year

period. Contractor shall promptly respond to any inquiries of BPCA or any representative of BPCA arising out of any such inspection or audit.

5.11 Withholding of Payments

(a) BPCA may withhold payment or, because of subsequently discovered evidence, may nullify the whole or any part of any previously approved Requisition to such extent as may, in the judgment of BPCA, be necessary:

- (1) to assure payment of just claims or liens of any persons supplying labor or Materials for the Work;
- (2) to protect BPCA from loss due to defective Work or to reimburse BPCA, Construction Manager and Architect for fines on account of non-compliance with applicable laws, rules and regulations, including rules promulgated by the Office of Safety & Health Administration;
- (3) to protect BPCA from loss due to death or injury to persons or damage to the Work or property of BPCA, other contractors or others caused by the act or neglect of the Contractor;
- (4) in the event that there is reasonable evidence that the Work will not be completed for the unpaid balance of the Contract Price;
- (5) in the event that there is reasonable evidence that the Work will not be completed within the time provided; or
- (6) in the event that Contractor persistently fails to perform the Work in accordance with the Contract Documents.

In any of such events, BPCA shall have the right to apply any such amounts so withheld in such manner as BPCA may deem proper to satisfy such claims, to secure such protection, to complete the Work or to compensate BPCA for any loss suffered by reason of Contractor's delay. Such application shall be deemed payment for the account of Contractor. In the event that BPCA gives Contractor notice that it intends to make such application, Contractor shall be estopped from disputing liability or the amount of liability unless, within three days after receipt of such notice, it indicates to BPCA in writing that it is not liable or that the amount of its liability is different from that set forth in the notice.

(b) The provisions of this Section 5.11 are solely for the benefit of BPCA, and any action or non-action by BPCA shall not give rise to any liability on the part of BPCA. Failure to so act shall not be deemed a waiver of any present or future claims of BPCA.

ARTICLE 6 – CONTRACTOR

6.1 Superintendence by Contractor, Discipline and Employee Skills

Contractor shall provide a competent construction superintendent to be in charge of the

Work. The construction superintendent shall devote full time to the Work, shall be present at the Site during the time the Work is required to be performed and shall have full authority to accept instructions, make decisions and act for Contractor at all times. If at any time the construction superintendent is not satisfactory to BPCA or Construction Manager, Contractor shall, if requested by BPCA, replace such superintendent with another satisfactory to BPCA. Contractor shall enforce strict discipline and good order at all times among Contractor's employees and all Subcontractors. Contractor shall not engage any employee not skilled in the task assigned.

6.2 Representations and Warranties

Contractor represents and warrants that:

(a) Contractor is financially solvent and is experienced in, and competent to perform the Work and has the staff, manpower, equipment, Subcontractor, and suppliers available to complete the Work within the time specified in this Agreement for the Contract Price;

(b) Contractor is familiar with all Federal, State or other laws, ordinances, orders, rules and regulations, which may in any way affect the Work;

(c) any temporary and permanent Work required by this Agreement can be satisfactorily constructed, and such construction will not injure any person or damage any property; and

(d) Contractor has carefully examined the Contract Documents and the Site and, from Contractor's own investigations, is satisfied as to the nature and location of the Work, the character, quality and quantity of surface and subsurface materials likely to be encountered, the character of equipment and other facilities needed for the performance of the Work, the general and local conditions, and all other conditions or items that may affect the Work. Prior to submitting its bid for performance of the Work, Contractor notified BPCA or Construction Manager in writing of any discrepancies or errors in the Contract Documents.

6.3 Verifying Dimensions and Site Conditions

Before proceeding with the Work, Contractor will check all previous and surrounding work and determine the correctness of the same; failure on its part to detect or report discrepancies will relieve BPCA of liability from any and all claims to recover cost, expense, loss or damage resulting therefrom. Contractor shall take, determine, investigate and verify all field measurements, dimensions, field construction criteria and Site conditions for the performance of the Work and shall check and coordinate the information contained in the Contract Documents and the boring logs which shall be available for inspection with the requirements of the Work. Contractor shall be responsible for determining the exact location of and to verify the spatial relationships of all Work. If any conflicts or discrepancies are found in the Contract Documents or if Contractor has any questions concerning the foregoing, it shall immediately notify Construction Manager and shall thereafter perform the Work in accordance with the directions of Construction Manager.

6.4 Copies of Contract Documents for Contractor

BPCA shall furnish to Contractor, without charge, two sets of the Contract Documents. Any sets in excess of the number mentioned above may be furnished to Contractor at the cost of reproduction and mailing.

6.5 Meetings

Contractor shall attend all meetings as directed by BPCA or Construction Manager, including meetings set forth in Section 26.3, and shall be represented at such meetings by a person having knowledge of the Work and authorized to act for Contractor at all times. If at any time such person is not satisfactory to BPCA or Construction Manager, Contractor shall, if requested by BPCA, be represented by another person satisfactory to BPCA, having knowledge of the Work and authorized to act for Contractor at all times.

6.6 Related Work

Contractor shall examine the Contract Documents for related work to ascertain the relationship of such work to the Work under the Contract Documents.

6.7 Surveys and Layout

Unless otherwise expressly provided in this Agreement, BPCA shall furnish Contractor survey points necessary for the Work, but Contractor shall lay out the Work.

6.8 Reports and Access

Contractor shall furnish BPCA and Construction Manager with daily and monthly manpower reports on forms provided by BPCA or Construction Manager and such other reports as may be required by BPCA or Construction Manager. BPCA, Construction Manager and Architect shall have full and free access to the shops, plants and factories of Contractor, any Materialmen and Subcontractors to inform themselves as to the progress of the Work.

6.9 Financial Information

During the Term, Contractor agrees to notify BPCA forthwith in writing of any event which has caused or is reasonably anticipated to cause a material adverse change in Contractor's business or financial condition from that shown in the then most recent financial statements furnished by Contractor to BPCA. Contractor has furnished to BPCA financial statements regarding the period from [date] to [date]. Contractor agrees to furnish to BPCA, at BPCA's request from time to time hereafter, quarterly, or annual financial statements (which shall be audited, if such is the practice of Contractor for financial statements covering the applicable period) and such additional information as BPCA shall deem necessary or desirable to satisfy itself of Contractor's continuing ability to complete the Work.

ARTICLE 7 - CONTRACT ADMINISTRATION

7.1 Architect's Responsibilities and Functions

Contractor acknowledges that the role of Architect with respect to the Work shall be as specified in this Agreement. Contractor will comply with the instructions of Architect pursuant hereto.

Architect's duties and services shall in no way supersede or dilute Contractor's obligation to perform and complete the Work in conformity with the Contract Documents.

7.2 Construction Manager's Responsibilities and Functions

(a) Construction Manager shall coordinate and schedule construction to insure that the completion of the Project is on schedule and that the Project is well constructed in accordance with the Contract Documents. Contractor acknowledges that the role of Construction Manager with respect to the Work shall be as specified in this Agreement. Contractor hereby agrees to comply with the directions and instructions of Construction Manager.

(b) Construction Manager shall call for meetings of Contractor, other contractors, Subcontractors and Materialmen as necessary for the proper coordination of the Work. Such meetings shall be held at the Site on regular working days, during regular working hours, unless otherwise directed by BPCA. Attendance shall be mandatory for all parties notified to attend.

7.3 Scope of Responsibility of Architect and Construction Manager

In no event shall any act or omission on the part of the Construction Manager or Architect relieve Contractor of its obligation to perform the Work in full compliance with the Contract Documents. Neither Architect nor Construction Manager will be responsible for construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the Work, and neither will be responsible for Contractor's failure to carry out the Work in accordance with the Contract Documents or the failure to fulfill any of the requirements of this Agreement.

ARTICLE 8 - INSPECTION AND ACCEPTANCE

8.1 Access to the Work

BPCA, Construction Manager, Architect or their authorized representatives shall at all times have access to and the right to observe the Work and all facilities where the Work or any part thereof is being fabricated or stored, and Contractor shall provide proper facilities for such access and observation.

8.2 Notice of Required Inspections and Tests

If the Contract Documents, or any laws, rules, ordinances or regulations, require that any Work be inspected or tested, Contractor shall give BPCA, Construction Manager and Architect at least five days prior written notice of readiness of the Work for inspection or testing and the date fixed for such inspection or testing.

8.3 Additional Inspections and Tests

(a) Whenever, in the opinion of BPCA, Construction Manager or Architect, it is desirable to require inspection or testing of the Work or its individual components in addition to any such testing that may be originally included in the Work, they shall have authority to do so whether or not such Work be then fabricated, installed, covered or completed. If such inspection or testing reveals a failure of the Work to comply (1) with the requirements of the Contract Documents, or (2) with respect to the performance of the Work, with laws, ordinances, rules, regulations or orders of any public authority having jurisdiction, Contractor shall bear all costs thereof, including Architect's and Construction Manager's additional services made necessary by such failure; otherwise BPCA shall bear such costs, and an appropriate Change Order shall be issued.

(b) In the event that any item of the Work fails inspection or testing, BPCA, Architect or Construction Manager may require inspection or testing of any or all of the other items of the Work at Contractor's cost and expense.

8.4 Uncovering of Work

(a) If any Work shall be covered or concealed contrary to the request of BPCA, Architect or Construction Manager, such Work shall, if required by BPCA, Architect or Construction Manager, be uncovered by examination, inspection or testing. Any examination, testing or inspection shall not relieve Contractor of the responsibility to maintain quality control over the Work. If any test results are below specified minimums, BPCA may order additional testing. The cost of such additional examination, inspection or testing, any additional professional services required, and any other expenses incurred by BPCA as a result of such examination, inspection or testing shall be borne by Contractor.

(b) In the event that a typical detail fails inspection or testing, BPCA, Architect or Construction Manager may require inspection or testing of any or all of other such typical details at Contractor's cost and expense.

8.5 Correction of Work

Any Work not approved by BPCA, Architect and Construction Manager shall immediately be reconstructed, made good, replaced or corrected by Contractor including all Work of other contractors destroyed or damaged by such removal or replacement. Rejected material shall be removed immediately from the Site. Acceptance of Materials and workmanship by BPCA shall not relieve Contractor from Contractor's obligation to replace all Work which is not in full compliance with the Contract Documents.

8.6 Certificate of Substantial Completion

Upon their receipt of written notice from Contractor stating that in Contractor's estimation the Work has been substantially performed in conformity with the Contract Documents, Architect and/or Construction Manager shall perform an inspection for the purposes of determining whether the Work has been so performed, commencing such inspection within ten (10) days of receipt of such notice and completing it with all due diligence. When Architect and/or Construction Manager find upon inspection that, to the best of their knowledge and belief, the Work is so performed, they shall prepare and deliver to BPCA for delivery to Contractor a certificate specifying the date of

substantial completion of the Work for purposes of this Agreement (“**Certificate of Substantial Completion**”) and a punch list of items of Work remaining to be completed.

The delivery of a Certificate of Substantial Completion shall not terminate or alter Contractor’s obligation under this Agreement to complete the Work as expeditiously as practicable in conformity with the Contract Documents and to fulfill all terms and conditions of this Agreement.

8.7 Completion of Work and Acceptance

Upon their receipt of written notice from Contractor stating its belief that the Work has been fully performed in conformity with the Contract Documents, and confirming that Contractor has completed any items of Work previously noted to it by Architect and Construction Manager as not having been acceptably completed in any punch list or otherwise, Architect and Construction Manager shall perform an inspection for purposes of determining whether the Work has been so performed. Architect and Construction Manager shall commence such inspection within ten (10) days of receipt of such notice and shall pursue and complete it with all due diligence. When BPCA and Construction Manager find upon inspection that, to the best of their knowledge and belief, the Work has been so performed, they shall prepare a certificate of final completion, and, upon delivery by BPCA to Contractor of said certificate, the Work shall be deemed to be finally accepted by BPCA (such delivery of the certificate of final completion to Contractor is hereinafter referred to as “**Final Acceptance**”).

Final Acceptance shall not terminate or alter Contractor’s obligation under this Agreement to complete the Work in conformity with the Contract Documents and to fulfill all terms and conditions of this Agreement.

ARTICLE 9 - CHANGES IN THE WORK

9.1 Change Orders

(a) BPCA may, at any time, in any quantity or amount, without notice to the sureties and without invalidating or abandoning this Agreement, order Extra Work. Notwithstanding the terms of subsection 3.1(a) hereof, BPCA may, but shall be under no obligation to, change the manner, sequence or method of performance of the Work or direct acceleration of the Work and Contractor shall, therefor, be entitled to a Change Order (as defined in Section 9.1(b)) provided that such change or acceleration was not ordered to maintain the Progress Schedule for the Project, the Progress Schedule for the Work or to coordinate the Work with the work of other contractors. Contractor shall be obligated to perform changed Work promptly in conformity with any Change Order or Field Order issued in accordance herewith and may not suspend or otherwise refuse to perform the Work contained therein or any other aspect of the Work required under this Agreement because a Change Order has yet to be fully executed.

(b) “**Change Order**” shall mean a written order issued by BPCA to Contractor after execution of this Agreement, authorizing or requiring:

- (1) Extra Work,

- (2) items that were erroneously deleted or omitted from the Work,
- (3) items that were included in the Work but were subsequently deleted,
- (4) an extension or decrease of time to complete Work,
- (5) an increase or reduction in the payment to Contractor, or
- (6) any other change in the Contract Documents or in the sequence of performing or phasing of the Work.

(c) All Change Orders shall be prepared, signed and issued by Construction Manager at the instruction of BPCA, and to be valid, must be countersigned by BPCA and Contractor.

9.2 Change in Contract Price and Time

(a) The Contract Price will not be revised due to any change of the Work except as and to the extent expressly provided in the Change Orders. The amount by which the Contract Price is to be increased or decreased by any Change Order shall be determined by BPCA and Construction Manager by one or more of the following methods:

- (1) accepting an amount agreed upon by BPCA and Contractor;
- (2) applying the applicable unit prices and alternates where the Work involved is covered by unit prices in this Agreement;
- (3) receiving from Contractor a detailed breakdown satisfactory to BPCA and Construction Manager, including actual time slips and invoices, itemizing the direct cost of labor and Materials to perform the changed Work and adding thereto fifteen percent (15%) to cover profit and all indirect and overhead costs, except that where the changed Work is performed by a Subcontractor or Materialman, the direct cost of labor and Materials to perform the changed Work plus fifteen percent (15%) for profit and all indirect and overhead costs to Subcontractor or Materialman and an additional sum for profit and all indirect and overhead costs of Contractor equal to ten percent (10%) of the first \$100,000, five percent (5%) of the second \$100,000 and three percent (3%) of any cost in excess of \$200,000 to Contractor. No allowance shall be paid on the premium portion of overtime pay. Where the changed Work involves both an increase and a reduction in any contract Work, the above percentage override shall be applied only on the amount, if any, by which the cost of the increase exceeds the cost of the reduction.
- (4) receiving from Contractor a true copy of its bid work sheets to determine the contract price for the elimination of any contract Work. The amount of reduction shall not include the overhead or profit of Contractor for the eliminated Work. Should Contractor fail to furnish BPCA with such bid work sheets, then Construction Manager shall determine the amount of the reduction. The determination of Construction Manager shall be final and binding unless erroneously or fraudulently arrived at, or arbitrary and capricious;
- (5) adding to the Contract Price only the amount of the premium portion of overtime pay resulting from an acceleration of the Work; or

(6) adding to the Contract Price, the actual incremental labor and equipment costs incurred by the Contractor resulting from a change in the manner, sequence or method of performing the Work.

(b) The compensation specified in a Change Order shall constitute a release and full payment for the Extra Work covered thereby and for any delay and disruption cost or expense occasioned by reason of said change in the Work.

(c) No time extension shall be granted Contractor by reason of the issuance of any Change Order unless it is expressly stated therein.

9.3 Field Orders

Construction Manager shall have the authority to order minor changes in the Work by the issuance of written field orders (“**Field Orders**”), which may be issued without prior approval by BPCA. Field Orders must be countersigned by Contractor. Minor changes in the Work for purposes of this Section shall mean only changes that do not necessitate or warrant any revision in the Contract Price in excess of \$5,000 or affect the time of performance of Contractor’s Work, any change in the basic character or design of the Project, or deviation from design standards established for the Project. Except as otherwise provided in the preceding sentence relating to an increase in the Contract Price, no claim for an increase in the Contract Price may be based upon any Field Order. If Contractor, on receipt of a Field Order, claims that the change of Work involved necessitates a Change Order, it shall proceed in accordance with the Field Order under protest and notify BPCA immediately of its claim for additional compensation for Extra Work pursuant to Article 14.

9.4 Changed Conditions

(a) BPCA assumes no responsibility for the correctness of any boring or other subsurface information and makes no representation of any kind regarding subsurface conditions and test borings, reports, rock cores, foundation investigation and topographical maps which may be made available to Contractor.

(b) Contractor shall promptly, and before such conditions are disturbed, notify Construction Manager of: (1) subsurface or latent physical conditions differing materially from those indicated in the Contract Documents, or (2) unknown physical conditions of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in this Agreement. Construction Manager shall promptly investigate the conditions, and if it finds that such conditions do materially so differ and cause an increase or decrease in Contractor’s cost of, or the time required for, performance of any part of the Work under this Agreement, Contractor shall be paid in the manner provided for payment with respect to any Change Order and receive, if warranted, a time extension.

(c) No claim of Contractor under this clause shall be allowed unless Contractor has given the notice required in subsection (b) above.

ARTICLE 10 - SUBCONTRACTS AND PURCHASE ORDERS

10.1 Selection of Subcontractors and Materialmen and Approval of Subcontracts and Purchase Orders

(a) Contractor shall submit to Construction Manager, within 21 calendar days of the issuance of the Notice to Proceed, the names of all persons with whom it has contracted or intends to contract or hereafter contracts with respect to the Work.

(b) Except as specifically provided herein, Contractor shall not enter into any Subcontracts or issue any Purchase Orders (as hereinafter defined) to any Materialmen in connection with the performance of Contractor's obligations hereunder without the prior written consent of BPCA to the use of each such Subcontractor or Materialman, and to the agreement to be entered into between Contractor and any such Subcontractor or Materialman. Contractor shall inform BPCA in writing of any interest it may have in a proposed Subcontractor or Materialman. No such consent by BPCA, or employment, contract, or use by Contractor, shall relieve Contractor of any of its obligations hereunder nor may BPCA be held responsible in any way for the performance of a Subcontractor or Materialman to whom BPCA gave its consent.

(c) Contractor shall be responsible for the performance of the Work of any Subcontractors or Materialmen engaged, including the maintenance of schedules, coordination of their Work and resolutions of all differences between or among Contractor and any Subcontractors. It is expressly understood and agreed that any and all Subcontractors or Materialmen engaged by Contractor hereunder shall at all times be deemed engaged by Contractor and not by BPCA.

(d) Upon the request of BPCA, Contractor shall cause any Subcontractor or Materialman employed by the Contractor in connection with this Agreement to execute a copy of the Agreement wherein such Subcontractor or Materialman shall acknowledge that it has read and is fully familiar with the terms and provisions hereof and agrees to be bound thereby as such terms and provisions are or may be applicable to such Subcontractors or Materialmen.

(e) Contractor shall submit to BPCA promptly following execution, three copies of every revision, amendment, modification or cancellation executed or issued by Contractor with respect to any Subcontractor or Materialman. BPCA is not obligated to make payment on account of Work performed or Materials furnished by a Subcontractor or a Materialman under a Subcontract or contract for construction supplies or Materials (hereinafter "**Purchase Order(s)**") unless there shall have been filed with BPCA prior to the submission of a Requisition for each payment, three copies of such Subcontract or Purchase Order containing the provisions required by this Agreement to be contained therein, except as may otherwise be specified by BPCA with respect to Purchase Orders for minor purchases.

10.2 Access by BPCA and Others

Contractor shall include a provision in all Subcontracts and Purchase Orders stating that, to permit verification of Contractor's costs, BPCA shall have the right to have its representatives inspect and audit the books of account and records of the Subcontractor and Materialmen, including the right to make excerpts from such books and records. All payments by Contractor to a Subcontractor or Materialman shall be by check specifically indicating that payment is

attributable to this Agreement and identifying the invoice(s) for which payment is being made. Contractor shall include a provision in all Subcontracts and Purchase Orders that will enable representatives of the State of New York, Construction Manager and BPCA, as the case may be, to obtain access during working hours to the appropriate books of account and records of the Subcontractors or Materialmen relating to the Work to determine if there is compliance with the requirements of law or this Agreement.

10.3 Retainage

Contractor may provide for a retainage under any of its Subcontracts or Purchase Orders provided that where a Subcontract or Purchase Order provides for a retainage, the retainage shall be no greater in percentage than that provided for under Sections 5.1 or 5.7 hereof with respect to Contractor itself, unless otherwise approved in writing by BPCA. Contractor shall submit with each Requisition a statement setting forth the amounts of all retainage, if any, under its Subcontracts and Purchase Orders.

10.4 Miscellaneous

(a) Contractor shall be fully responsible for the work, acts and omissions of Subcontractors and Materialmen, and of persons either directly or indirectly employed by Subcontractors and Materialmen.

(b) Contractor's use of Subcontractors and Materialmen shall not diminish Contractor's obligation to complete the Work in accordance with the Contract Documents. Contractor shall control and coordinate the work of Subcontractors and Materialmen.

(c) Nothing contained in this Agreement shall create any contractual relationship between Subcontractors or Materialmen and BPCA, Construction Manager or Architect. Nothing in this Section shall obligate BPCA to pay or to see to the payment of any sums to any Subcontractor or Materialmen.

(d) Contractor shall include a provision in all Subcontracts and Purchase Orders exceeding \$50,000, requiring the Subcontractor or Materialman, if requested by BPCA, until the Subcontractor or Materialman finishes its portion of the Work, to deliver to Contractor unaudited and, if available, audited financial statements of the Subcontractor or Materialman similar to the obligation of Contractor under Section 6.8 and promptly upon receipt thereof Contractor shall deliver copies thereof to BPCA.

ARTICLE 11 - ASSIGNMENT

11.1 No Assignment of Duties

Contractor shall not assign this Agreement or the performance of any obligations of Contractor under this Agreement, nor enter into any Subcontract in respect of the Work or any part thereof except in compliance with Article 10 hereof and with the prior written consent of BPCA, and each and every such assignment, Purchase Order and Subcontract without such compliance and consent shall be void and shall revoke and annul this Agreement.

11.2 No Assignment of Monies

Contractor shall not assign any monies payable hereunder nor execute and deliver any order for payment unless Contractor and the assignee shall have complied with the following terms and conditions:

(a) the assignee shall be a commercial bank or finance company regularly engaged in the business of provided financing to construction contractors and shall be providing such financing to Contractor;

(b) the assignee shall, simultaneously with the assignment, execute and deliver to BPCA an undertaking, in favor of BPCA, in form and substance satisfactory to BPCA, providing that:

(1) assignee will cause Contractor to apply for trust purposes, as defined in New York Lien Law Article 3-A (the “**Lien Law**”), all funds advanced by assignee to Contractor;

(2) assignee will file a copy of the assignment, containing the covenant required by the Lien Law, with the County Clerk of New York County and the head of the agency having charge of the underlying project;

(c) the assignee shall agree with BPCA in writing that BPCA and Contractor may modify any of the terms of this Agreement, including any of the terms of payment, without the consent of assignee;

(d) the assignee shall agree with BPCA in writing that after the effective date of the assignment, BPCA may make payment directly to any Subcontractor or Materialman without any liability to the assignee;

(e) the assignee shall agree with BPCA in writing that the assignee shall require and cause Contractor to keep his books and records in the form and manner described in New York Consolidated Laws Service Lien Law Article 3-A Section 75; and

(f) the assignee shall agree with BPCA in writing that the assignee will indemnify and hold BPCA harmless from and against any loss, claim or expense incurred as a result of any failure of performance in accordance with the terms of such undertaking.

11.3 Assignment by BPCA

This Agreement or any rights of BPCA under this Agreement, including any guaranties or warranties of workmanship or material, may at any time be assigned by BPCA to the State of New York or any political subdivision, public corporation or agency of the State.

ARTICLE 12 - MECHANICS’ LIENS AND CLAIMS

If any mechanic’s lien or other claim shall be filed for or on account of the Work, Contractor shall discharge such lien or claim within thirty days of receiving written notice of such lien or other claim.

ARTICLE 13 – INSURANCE AND CONTRACT SECURITY

13.1 Insurance

(a) Contractor shall procure and maintain all of the insurance required under this Article 13 until Final Acceptance of the Work, except with respect to Completed Operations Coverage, as described in 13.1(f)(3) below.

(b) Contractor shall not commence physical performance of the Work at the Site until Contractor has obtained, and required each Subcontractor to obtain, all the insurance required under this Article and until it has furnished to BPCA the certificate or certificates of insurance required by Section 13.1(c) hereof.

(c) Contractor shall furnish to BPCA, before or upon execution of this Agreement, attention: [name], a certificate or certificates of the insurance required under this Article and, upon BPCA's request, certified copies of the original policies of insurance, within the time period required by BPCA and before commencing physical performance of the Work at the Site. Such certificate or certificates shall be in form satisfactory to BPCA, shall list the various coverages and shall contain, in addition to any other provisions required hereby, a provision that the policy shall not be changed, canceled or reduced and that it shall be automatically renewed upon expiration and continued in force until two years after Final Acceptance unless BPCA is given 90 days' written notice to the contrary. Such certificates shall also include riders providing that violation of any of the terms of any policy shall not by itself invalidate such policy. Such policies and certificates should name as additional insureds BPCA, Battery Park City Parks Conservancy Corporation ("BPCPC"), the State of New York, Construction Manager, and Architect.

(d) All insurance required to be procured and maintained must be procured from insurance companies that have a financial rating by A.M. Best Company as published in the most current key rating guide of "A-X" or better and which are authorized to do business in the State of New York.

(e) If at any time any of the required insurance policies should be canceled, terminated or modified so that insurance is not in effect as required, then, if BPCA shall so direct, Contractor shall suspend performance of the Work. If the Work is not suspended then BPCA may, at BPCA's option, obtain insurance affording coverage equal to that required, the cost of such insurance to be payable by Contractor to BPCA.

(f) Contractor and each Subcontractor shall secure in a form satisfactory to BPCA:

(1) Worker's Compensation and Employer's Liability Insurance (including United States Longshoreman & Harbor Workers and Jones Act Coverages) during the Term for the benefit of such employees as are required to be insured by the applicable provisions of law and voluntary compensation for employees excluded from statutory benefits. Employer's Liability Insurance and benefits resulting from disease shall not be less than an annual aggregate amount of (\$\$\$\$\$) for each consecutive 12-month period.

(2) Disability Benefit Insurance during the life of this Agreement for the benefit of such employees as are required to be insured by the applicable provisions of law.

(3) Commercial General Liability Insurance as follows:

Standard commercial general liability insurance policy with contractual, products and completed operations and explosion, blasting, collapse, excavation and underground damage liability coverages, under the occurrence policy format, issued to and covering the liability of Contractor for all the Work and operations relating thereto and all obligations assumed by Contractor under this Agreement including, but not limited to indemnity obligations in an amount which shall not be less than the following limits:

Combined Single Limits, Bodily Injury and Property Damage Liability

(\$\$\$\$\$) per each occurrence and (\$\$\$\$\$) in the aggregate.

Product and Completed Operations

(\$\$\$\$\$)

The completed operations coverage shall continue in force until three years after Final Acceptance of the Work and shall contain, in addition to any other provisions required hereby, a provision that the policy shall not be changed, canceled or reduced. As a condition precedent to the making of Final Payment, Contractor shall furnish BPCA with a certified copy of the completed operations policy.

(4) Automobile Liability Insurance as follows:

A policy covering the use in connection with the Work of all owned, non-owned and hired vehicles bearing license plates, or under the circumstances that such vehicles are being used they are required by the Motor Vehicle Laws of the State of New York to bear license plates. The coverage under such policy shall not be less than the following limits:

Combined Single Limits,

Bodily Injury and Property Damage Liability

(\$\$\$\$\$) per each occurrence.

(5) Marine Protection and Indemnity insurance of not less than [amount] per occurrence, if Contractor or any of its Subcontractors utilizes floating equipment, barges or floats, or performs marine-related construction, covering any and all claims for personal injury, death and property damage arising out of or in connection with this Agreement.

(6) Pollution Liability Insurance, on an occurrence basis, providing coverage for bodily injury liability, property damage or environmental damage caused by pollution conditions with a limit of liability of not less than [amount] per occurrence and in the aggregate. The policy shall include coverage for environmental clean-up on land, in air and on water. The policy shall include coverage for completed operations for two (2) years after the completion of the performance of the Work, gradual and sudden and accidental pollution coverage, with a time element of no less than seven (7) days' notice and thirty (30) days' reporting. The policy shall not

contain a sunset provision, or any other provision, which would prohibit the reporting of a claim and the subsequent defense and indemnity that would normally be provided by the policy. The policy shall provide transportation coverage for the hauling of hazardous materials from the Project Site to the final disposition location.

(7) Vessel Pollution Liability Insurance, on an occurrence basis, providing coverage for bodily injury liability, property damage or environmental damage caused by pollution conditions, emanating from any floating equipment, barges or floats, utilized by Contractor or Subcontractors in the performance of Marine related construction, with a limit of liability of not less than [amount] per occurrence and in the aggregate. The policy shall include coverage for environmental clean-up on land, in air and on water.

(8) Contractor shall secure, pay for, and maintain Property Insurance necessary for protection against the loss of owned, borrowed or rented equipment, tools and materials used in Contractor's performance of the Work. The requirement to secure and maintain such insurance is solely for the benefit of Contractor. Contractor's failure to secure such insurance or to maintain adequate levels of coverage shall not render BPCA or any other Additional Insureds, or their agents and employees, responsible for any such losses, and Owner, the other Additional Insureds, and their agents and employees shall have no such liability.

(9) Valuable Papers Insurance insuring, for the benefit of Contractor and BPCA all plans, designs, drawings, specifications, and documents used under this Agreement by Contractor in a total amount of not less than [\$\$\$\$\$\$] Contractor may furnish full coverage under one policy, or may submit separate policies from any Subcontractor(s) for their proportionate shares of such coverage.

(10) Comprehensive Crime/Employee Dishonesty Insurance in a reasonable amount or an amount which is customary in the applicable industry, trade or profession.

(11) If the Work involves the removal, repair, installation or testing of underground petroleum storage tanks, or petroleum remediation operations, or the performance of work or services related to excavation, loading, transporting or unloading of hazardous or contaminated materials, Contractor shall provide Contractors Professional Liability Insurance with a limit of [\$\$\$\$\$]. Coverage shall provide and encompass the following:

(i) Contractor's negligent acts, errors or omissions in rendering or failing to render services of an engineering or consulting nature arising out of their environmental engineering or consulting.

(ii) Maximum self-insured retention of [\$\$\$\$\$], or an amount acceptable to BPCA.

(12) Umbrella Liability Insurance [excess of general liability, automobile liability, Marine protection and indemnity, pollution liability, vessel pollution liability and Employer's Liability] in an amount of not less than [amount].

(g) The insurance required under subsections 13.1(f) 3, 4 [and 5] shall be of a type which shall protect Contractor and Subcontractors, respectively, against damage claims which may

arise from operations under this Agreement, whether such operations be by the insured or by anyone directly or indirectly employed by the insured. Each of the aforesaid policies shall provide that the insurance company or an attorney approved and retained by the insurance company shall defend any suit or proceeding against BPCA or any officers, agents or employees of BPCA whether or not such suit is groundless, false or fraudulent. Notwithstanding the foregoing, BPCA shall have the right to engage its own attorneys for the purpose of defending any suit or proceeding against it or its respective officers, agents or employees, and, in such event, Contractor shall, indemnify BPCA for all attorneys' fees and disbursements and other costs incurred by it arising out of, or incurred in connection with, any such defense. The said insurance shall name BPCA, BPCPC, the State of New York, Construction Manager and Architect as additional insureds as respects this location and shall, where applicable, be written on an occurrence basis and shall contain a provision that it is primary and that any similar insurance which BPCA, BPCPC, the State of New York, Construction Manager, Architect, Contractor or Subcontractor elect to carry for their own benefit is secondary or excess and not contributing insurance.

(h) BPCA, at BPCA's cost and expense, may, at its sole option, procure and maintain such insurance as shall in the opinion of BPCA, protect BPCA from contingent liability of BPCA to others for damages arising from bodily injury, including death and property damages which may arise from operations under this Agreement. The procurement and maintenance of such insurance by BPCA shall not in any way be construed or be deemed to relieve Contractor from, or to be a limitation on the nature or extent of, such obligations and risk.

(i) BPCA shall, at all times during the period of construction and until completion and Final Acceptance of the Work procure and maintain at the cost and expense of BPCA "**Builders Risk**" insurance, or its functional equivalent, against direct physical loss or damage to the Work and on all Materials to be made a part of the Work in the names of BPCA, Construction Manager, Contractor and Subcontractors, said amount of insurance to be procured and maintained on a one hundred percentage (100%) completed value basis on the insurable portion of the Work, which insurance shall contain a deductible provision for all losses except flood and earthquake in the amount of TEN THOUSAND DOLLARS (\$10,000) and a deductible provision for flood and earthquake in the amount of TEN THOUSAND DOLLARS (\$10,000). BPCA recognizes that the deductible applicable to flood and earthquake may be greater than TEN THOUSAND DOLLARS (\$10,000) due to insurance market conditions and shall notify Contractor if such deductible is greater than TEN THOUSAND DOLLARS (\$10,000). Losses up to and including the amounts of such deductible provisions shall be borne by Contractor. The insurance specified above may, in certain instances, include other parties as named insureds, as the interests of such parties may appear. Loss, if any, is to be made adjustable with and payable to BPCA on behalf and for the named insureds as the interests of such insureds may appear. BPCA shall, in BPCA's sole discretion, have power to adjust and to settle with the insureds any loss or claim under such insurance. The above is not intended to be a complete, full or accurate description of the coverage provided by the policies of insurance, copies of which are on file with BPCA. This subsection (i) is not intended to create or give any rights to Contractor or Subcontractors other than those which may be made available to such Contractors or Subcontractors under the terms of such policies. BPCA assumes no obligation to obtain insurance other than that evidenced by said policies. Contractor and Subcontractors shall not violate or permit to be violated any term or condition of such policies and shall at all times satisfy the safety requirements of BPCA and of the insurance companies issuing the aforementioned policies. The Contractor shall, upon notification by BPCA,

obtain such insurance at BPCA's expense on a date determined by BPCA, which date shall not be less than thirty (30) days after notice to Contractor of such determination by the BPCA.

13.2 Effect of Procurement of Insurance

Neither the procurement nor the maintenance of any type of insurance by BPCA or Contractor shall in any way be construed or be deemed to limit, discharge, waive or release Contractor from any of the obligations and risks impressed upon Contractor by this Agreement or to be a limitation on the nature or extent of such obligations and risks.

13.3 Contract Security

Contractor shall, if it has not already done so, furnish to BPCA, with the execution of this Agreement, to BPCA, a bond in the form acceptable to BPCA in an amount at least equal to one hundred percent (100%) of the Contract Price for performance of the Work (the "**Performance Bond**"), and a labor and material payment bond in the form acceptable to BPCA in an amount at least equal to one hundred percent (100%) of the Contract Price for the payment of all persons performing labor or providing Materials in connection with the Work (the "Payment Bond"). The surety on said bond shall be a surety company authorized to do business in the State of New York and shall be rated at last B+ by A.M. Best and Company, or meet such other requirements as are acceptable to BPCA.

13.4 Additional or Substitute Bond

If at any time BPCA shall be or shall become dissatisfied with any surety or sureties then obligated upon the Performance Bond or the Payment Bond, or if for any other reason such bonds shall cease to be adequate security to BPCA, Contractor shall within five (5) days after notice from BPCA to do so, substitute an acceptable bond or bonds in such form and sum and signed by such other surety or sureties as may be satisfactory to BPCA, except that the penal sum of said bond shall not exceed the Contract Price as adjusted by Change Orders. No further payments shall be deemed due nor shall be made until the new surety or sureties shall have furnished such an acceptable bond or bonds to BPCA.

ARTICLE 14 - CLAIMS FOR EXTRA WORK

(a) If Contractor is of the opinion that (i) any work that it has been ordered to perform is Extra Work and not Work as set forth in the Contract Documents, (ii) any action or omission of BPCA, Construction Manager or Architect is contrary to the terms and provisions of the Contract Documents and will require the performance of Extra Work or will cause additional expense to Contractor or (iii) any determination, order or directive of BPCA, Construction Manager or Architect is contrary to the terms of the Contract Documents and will require the performance of Extra Work or will cause additional expense to Contractor, Contractor shall:

(1) promptly comply with each determination, order or directive and proceed diligently with the performance of the Work in accordance with BPCA's instructions,

(2) notify BPCA, Construction Manager and Architect in writing within 72 hours of such determination, order, act or omission that Contractor believes such will require it to

perform Extra Work or incur additional expense and the basis for Contractor's conclusion and request a final determination thereon by BPCA; and

(3) present to the Construction Manager for signature daily time and Material tickets to confirm quantities of Material and hours of labor in cases where Contractor is performing the Work which it considers to be Extra Work.

If BPCA determines that (x) such work is Work required to be performed hereunder and not Extra Work, (y) such action or omission is proper, or (z) such determination, order or directive is proper, Contractor, in order to reserve its right to claim compensation for or damages resulting from the performance of such work or the compliance with such determination, order or directive, must notify BPCA in writing within three (3) working days after receiving notice of BPCA's determination that it is performing such work or complying with such determination, order or directive under protest.

In addition to the foregoing, Contractor must submit to BPCA, Construction Manager and Architect within thirty (30) days after it has performed such work or complied with such determination, order or directive, a detailed statement of the extra expense claimed to have been incurred and of any claimed damages resulting from the performance of such work or the compliance with such determination, order or directive.

(b) No claim for Extra Work shall be allowed unless the same was done pursuant to written order approved in writing by BPCA. Contractor's failure to comply with any provision of this Article:

(1) shall constitute a conclusive and binding determination on the part of Contractor that such action, omission, determination, order or directive does not involve Extra Work, has not caused extra expense or damages to Contractor, and is not contrary to the terms and provisions of the Contract Documents; and

(2) shall constitute an irrevocable waiver by Contractor of any claim for compensation for or damages resulting from the performance of such work or the compliance with such determination, order or directive.

(c) The value of claims for Extra Work, if allowed, shall be determined by the methods described in Section 9.2(a).

ARTICLE 15 - TERMINATION

15.1 Termination for Cause

(a) If any of the following events shall occur (an "**Event of Default**") then BPCA or Construction Manager may serve written notice upon Contractor and upon Contractor's surety, if any, terminating this Agreement at a specified date. The notice shall contain the reasons for termination but shall not be effective to terminate this Agreement if Contractor cures all Events of Default stated in the notice prior to the date specified in the notice of termination.

(1) Contractor shall violate any substantial provision of this Agreement,

including, without limitation, by failing to maintain the Progress Schedule for the Project or Progress Schedule for the Work then in effect in accordance with, or failing to discharge any of its responsibilities under, Section 3.1(d) hereof, including abandonment of the Work by Contractor, or by failing to indemnify and hold harmless BPCA (as required by Sections 3.1(e), 3.2, 17.5, 21.1, 21.2, 22(c) or any other provision of this Agreement) from and against any and all claims, liabilities, losses, costs or damages arising out of Contractor's performance of, or failure to perform, its obligations under this Agreement in accordance with its terms, or if the Contractor fails to maintain the insurance required by the provisions of Section 13; or

(2) any material adverse change shall take place in the financial condition of the Contractor;

(3) Contractor takes any action which would result in it becoming the subject of any insolvency proceeding. The term "insolvency proceeding" as used herein shall include the filing of a petition for relief under Title 11 of the United States Code by Contractor or the consent, acquiescence or taking of any action by Contractor, or the filing by or against Contractor of petition or action, looking to or seeking any reorganization, arrangement, composition, readjustment, liquidation, dissolution, or similar relief under any other regulation; or the appointment, with or without the consent of Contractor, of any trustee, custodian, receiver or liquidator of Contractor or of any property or assets of Contractor; or Contractor's making of an assignment for the benefit of creditors or its inability to pay its debts as they become due;

(4) Contractor misrepresented or omitted information in its submission of the Statement of Qualifications of Contractor submitted by Contractor to BPCA in connection with this Agreement; or

(5) any partner, principal, director, officer or shareholder owning in excess of five percent (5%) of the stock of Contractor shall have been convicted of a felony.

(b) Upon the occurrence of an Event of Default, at BPCA's option exercised by written notice to Contractor, title to any or all of Contractor's Materials, equipment, work product, work in process and dies and tools, whether on the Site or off site, which are necessary or useful in completing the Work shall vest in BPCA and BPCA may take possession of and utilize the same for completion of the Work; provided that title to such items shall revert to Contractor upon effectuation of a cure of the Event of Default prior to the termination of this Agreement. If no cure has been effected, this Agreement has been terminated and BPCA has taken possession of the same, then after BPCA has taken possession and the Work shall have been completed by or on behalf of BPCA, BPCA shall pay to Contractor, in respect to the items for which title has vested in BPCA, an amount equal to the sum of:

(1) the direct costs of Contractor for such Materials and Work in progress, and

(2) the depreciated book value of such tools and dies less, if BPCA elects to return the tools and dies to Contractor, the salvage value thereof. BPCA shall have the right to set off against such payment due to Contractor any amounts then due and payable by Contractor to BPCA which may accrue as damages owing by Contractor to BPCA under the terms of this Agreement. Contractor shall execute any further documents (including Form UCC-1 Financing

Statements to give public notice of the potential ownership interest of BPCA as set forth herein) required by BPCA to confirm the terms of this subsection 15.1(b).

(c) Upon termination of this Agreement, BPCA shall have the right, in addition to all other rights and remedies, to complete or have the Work completed by such means and in such manner, by contract or otherwise, with or without public letting as permitted by law, as BPCA deems advisable. BPCA may deduct any loss it incurs thereby from any payment then or thereafter due to Contractor without prejudice to any other remedy BPCA may have.

(d) Immediately upon termination in accordance with the provisions of this Section, each and every Subcontract and Purchase Order entered into by Contractor shall, at BPCA's option, be automatically assigned to BPCA, and Contractor shall insert a provision to this effect in all Subcontracts and Purchase Orders.

(e) Contractor shall, upon the date when such termination shall take effect, promptly notify the union or unions, if any, having jurisdiction over the work by its employees that it releases the Project and consents that the Work be performed by others and Contractor expressly authorizes BPCA to notify the union or unions of such release in the name of Contractor. The failure, neglect or refusal of Contractor to issue such release or the disclaimer by it of the effectiveness of the release issued by BPCA shall subject Contractor to all damages sustained by BPCA.

(f) If this Agreement shall have been terminated by BPCA pursuant to this Section 15.1 and it shall be finally determined by BPCA or a court of competent jurisdiction that adequate grounds for such termination did not exist, then such termination shall be deemed a termination for convenience of BPCA under Section 15.2 hereof and the sole right, remedy and recourse of Contractor against BPCA shall be governed and determined by Section 15.2 hereof.

15.2 Termination for Convenience of BPCA

(a) BPCA, at any time, may terminate this Agreement for its own convenience. Any such termination shall be effected by delivering to Contractor a notice of termination specifying the extent to which performance of Contractor's Work under the Contract is terminated and the date upon which such termination becomes effective. Upon receipt of the notice of termination, Contractor shall:

(1) stop work under this Agreement on the date specified in the notice of termination;

(2) place no further Purchase Orders or Subcontracts for Materials, services or facilities;

(3) unless directed otherwise by BPCA, terminate all Purchase Orders and Subcontracts;

(4) assign to BPCA, in the manner, at the times, and to the extent directed by Construction Manager, all of the right, title and interest of Contractor under the Purchase Orders and Subcontractors so terminated, in which case BPCA shall have the right, in its sole discretion, to settle or pay any or all claims arising out of the termination of such Purchase Orders and

Subcontracts;

(5) to the extent required by Construction Manager, settle all outstanding liabilities and all claims arising out of such termination of Purchase Orders and Subcontracts, with the approval or ratification of Construction Manager, which approval or ratification shall be final for all the purposes of this Section 15.2;

(6) transfer title to BPCA and deliver in the manner, at the time, and to the extent, if any, directed by the Construction Manager (i) the fabricated or unfabricated parts, Work in process, completed Work, supplies, and other Material produced as a part of, or acquired in connection with the performance of, the Work terminated by the notice of termination, and (ii) the completed or partially completed plans, drawings, work product, information and other property, which if this Agreement had been completed, would have been required to be furnished to BPCA; and

(7) take such action as may be necessary, or as the Construction Manager may direct, for the protection and preservation of the property related to this Agreement which is in the possession of Contractor and in which BPCA has or may acquire an interest.

(b) In the event of a termination of this Agreement pursuant to this Section 15.2, Contractor shall be paid by BPCA only the apportioned Contract Price for Work installed, the fair and reasonable value of Materials stored on the Site and under order for which Contractor is responsible for payment, less any sums properly deductible by BPCA, except that in no event shall Contractor be entitled to compensation in excess of the total Contract Price.

15.3 Suspension of Work

(a) BPCA may at any time and for any reason direct Contractor to suspend, stop, or interrupt the Work or any part thereof for a period of time. Such direction shall be in writing and shall specify the period during which the Work is to be stopped. Upon receipt of a direction of suspension, Contractor shall, as soon as practicable, cease performance of the Work as ordered and take immediate affirmative measures to protect the Work from loss or damage. Contractor shall resume the Work upon the date specified in such direction or upon such other date as BPCA may thereafter specify in writing.

(b) The period during which the Work shall have been suspended, stopped or interrupted may, if warranted, be added to the time fixed for performance. A suspension, stoppage or interruption of the Work pursuant to this provision shall not give rise to any claim against BPCA for additional compensation.

ARTICLE 16 - COMPOSITE DRAWINGS AND COOPERATION

Where Contractor shall perform Work in close proximity to work of other contractors or subcontractors, or where there is evidence that Contractor's Work may interfere with work of other contractors, or subcontractors, Contractor shall assist in arranging space conditions to make satisfactory adjustment for the performance of such work and the Work. Contractor shall prepare composite scale working drawings and specifications as directed by Construction Manager, clearly showing how Contractor's Work is to be performed in relation to work of other contractors or

Subcontractors. Such direction may include the following: the scale of the drawings, where the drawings are to be drafted, the number of prints or reproduces, and the requirement of attendance at meetings. The determination as to who shall provide the composite drawings and the contents of the same shall rest exclusively with Construction Manager. Upon request by Construction Manager, Contractor shall sign and be bound by such composite drawings. Such signature shall indicate Contractor's acknowledgment that such drawing is acceptable as related to its Work covered or included in such drawing. If Contractor performs the Work in a manner that causes interference with the work of other contractors, or Subcontractors, Contractor shall make the changes necessary to correct the condition as directed by Construction Manager.

ARTICLE 17 - PROTECTION OF RIGHTS, PERSONS AND PROPERTY

17.1 Accident Prevention

Contractor shall at all times take every precaution against injuries to persons or damage to property and for the safety of persons engaged in the performance of the Work.

17.2 Safety Programs

Contractor shall be responsible for the initiation, maintenance and supervision of safety precautions and programs as prescribed by Construction Manager in connection with the Work.

17.3 Protection of Work and Property

(a) Contractor shall at all times guard BPCA's property from injury or loss in connection with the Work. Contractor shall at all times guard and protect the Site, the Work and adjacent property. Contractor shall replace or make good any such loss or injury unless such loss or injury is caused directly by BPCA.

(b) Contractor shall have full responsibility to install, protect and maintain all Materials in proper condition and forthwith repair, replace and make good any damage thereto until Final Acceptance of the Work.

(c) No provision is included for stresses or loads imposed by construction operations. If Contractor desires to place such loads in excess of the design load (as shown on the Drawings or Specifications), Contractor shall submit to Architect drawings and calculations prepared by, and bearing the seal of a professional engineer, showing the proposed method for supporting such loads, for Architect's review and approval. No loading of any kind in excess of design loads shall be placed on any part of the Project prior to Architect's approval of such submitted drawings and calculations. The costs of the Architect's review shall be reimbursed to BPCA by Contractor.

(d) Contractor shall be responsible for all cutting, fitting or patching that may be required to complete the Work, to make its several parts fit together properly and to make the Work fit together properly with previous and surrounding work. The requirement to cut, fit or patch shall be determined by Construction Manager; provided, that structural elements of the Project shall not be cut, patched, or otherwise altered or repaired without prior authorization by BPCA. Authorization to proceed with remedial operation on any damaged or defective element or portion of the Project shall not constitute a limitation or a waiver of BPCA's, Construction Manager's or

Architect's right to require the removal and replacement of any Work which fails to fulfill the requirements of the Contract Documents.

17.4 Adjoining Property

Contractor shall protect all adjoining property and shall repair or replace any such property damaged or destroyed during the progress of the Work.

17.5 Risks Assumed by Contractor

(a) Contractor solely assumes the following risk whether such risk arises from acts or omissions (whether negligent or not and whether supervisory or otherwise) of BPCA, Construction Manager, of Architect or Contractor, of any Subcontractor, of any Materialman, of third persons or from any other cause, including unforeseen obstacles and difficulties which may be encountered in the prosecution of the Work, whether such risk is within or beyond the control of Contractor and whether such risk involves any legal duty, primary or otherwise, imposed upon BPCA:

The risk of loss or damage, direct or indirect, of whatever nature, to the Work or to any Materials furnished, used, installed or received by BPCA, Contractor or any Subcontractor, Materialmen or workmen performing services or furnishing Materials for the Work, whether such Work or Materials are stored at the Site or at an offsite location in accordance with Section 5.4 hereof. Contractor shall bear such risk of loss or damage until Final Acceptance of the Work by BPCA or until completion of such Materials or removal of such Materials from the Site following a determination that they will no longer be needed for the Project and delivery to the location at which they are to be subsequently stored or disposed of, whichever event occurs last. A portion of the risk of such loss or damage may be insured against under the terms of a "builder's risk" insurance policy maintained in the name of Contractor, among others, as described in Section 13.1(i). Notwithstanding the status of any actual or potential recovery or claim under the said "builder's risk" insurance policy, in the event of any loss or damage, Contractor immediately shall repair, replace or make good any such loss or damage.

(b) Contractor shall not, without obtaining express advance permission of BPCA, raise any defense involving in any way the: (i) jurisdiction of any court in which BPCA brings an action arising under this Agreement, (ii) the governmental nature of BPCA, or (iii) the provisions of any statutes respecting suits against BPCA.

(c) Contractor's obligations under this Article 17 shall not be deemed waived, limited or discharged by the enumeration or procurement of any insurance for liability for damages.

(d) Neither Final Acceptance of the Work nor any payment made hereunder shall release Contractor from Contractor's obligations under this Article 17. The enumeration elsewhere in this Agreement of particular risks assumed by Contractor or of particular claims for which Contractor is responsible shall not be deemed to limit the effect of the provisions of this Article 17 or to imply that Contractor assumes or is responsible for only risks or claims of the type enumerated; and neither the enumeration in this Article 17 nor the enumeration elsewhere in this Agreement of particular risks assumed by Contractor of particular claims for which Contractor is responsible shall be deemed to limit the risks which Contractor would assume or the claims for which Contractor would be responsible in the absence of such enumerations.

(e) The Contractor is advised that the Work under this Agreement may impose certain obligations and requirements mandated by the U.S. Department of Labor Occupational Safety and Health Administration regulations, Title 29 CFR Part 1926.62 Lead Exposure in Construction, relative to the potential exposure to lead by its employees. The Contractor assumes entire responsibility and liability for complying fully in all respects with these regulations.

(f) Contractor agrees that any unsatisfied claims of the BPCA arising from Contractor's obligations under this Article 17 or Article 13 (Insurance) may be offset or deducted by BPCA from any payments due to Contractor hereunder.

ARTICLE 18 - USE PRIOR TO ACCEPTANCE BY BPCA

(a) If before Final Acceptance of Work, BPCA desires to use the Site or any part thereof that is completed or partly completed, or to place or install therein or thereon equipment, BPCA shall have the right to do so, and Contractor shall in no way interfere with or object to such use by BPCA.

(b) Such use shall not (1) constitute acceptance of space, systems, Materials or elements of the Work, (2) affect the start of any guaranty period, nor (3) affect the obligations of Contractor to complete the Work in accordance with the requirements of this Agreement or other obligations of Contractor under the Contract Documents.

(c) Contractor shall continue the performance of the Work in a manner that shall not unreasonably interfere with such use by BPCA.

ARTICLE 19 - EXEMPTION FROM SALES AND COMPENSATING USE TAXES

19.1 BPCA Exempt

BPCA is exempt from payment of sales and compensating use taxes of the State of New York and of cities and counties thereof on all Materials that will become an integral component of the completed Project pursuant to this Agreement.

19.2 Certificates

Contractor shall obtain and cause Subcontractors and Materialmen to obtain any and all necessary certificates or other documentation from the appropriate governmental agency or agencies, and use such certificates or other documentation as required by law, rule or regulations to obtain said tax exemption.

ARTICLE 20 - WARRANTIES AND GUARANTIES

20.1 In General

(a) Contractor guarantees that all Work performed and all Materials furnished will conform to the Contract Documents as to kind, quality, functions, design and characteristics of material and workmanship. Contractor shall remove, replace and repair, at its sole cost and expense, all defects in workmanship, Materials, ratings, capacities, or design characteristics

occurring in or to the Work including, without limitation, any portion of the Work furnished or performed by any Subcontractor or Materialman, within one year from the date of Final Acceptance. Contractor guarantees that all Work performed and all Materials furnished will conform to the Contract Documents as to kind, quality, functions, design and characteristics of material and workmanship. Contractor hereby acknowledges that BPCA may be required to incur substantial expense if correction of the Work is required particularly if such correction involves the uncovering, removal or replacement of concrete, wiring and piping installed at the Site. If Contractor shall fail to reimburse BPCA for any such expense which may become payable as provided in this paragraph, BPCA shall be entitled to deduct such expense from any payments required to be made by BPCA to Contractor pursuant to this Agreement. Contractor, upon demand, shall pay for any and all damage to any Work affected by or from such defects and all expenses necessary to remove, replace and repair such Work that may be damaged in removing, replacing or repairing such defects.

(b) The benefits of this Article 20 shall inure to the benefit of BPCA and its respective successors and assigns. In addition, any bond or guaranty that may be required of Contractor or any Subcontractor or Materialman under the Contract Documents shall inure to the benefit of BPCA and its respective successors and assigns.

(c) The rights and remedies afforded BPCA under this Section are in addition to and not in lieu of and do not in any way affect, change, alter, modify, vary or prejudice any right, remedy or recourse that BPCA may have under other provisions of this Agreement or pursuant to law.

20.2 Additional Guaranties

In addition to the general guaranty set forth in Section 20.1, any other guaranties set forth in the Contract Documents shall be applicable.

20.3 Repair by Another

If BPCA has requested Contractor to correct any Work and Contractor shall not have completed any correction of the Work as shall be required pursuant to this Article 20 within ten (10) working days after receipt of written notice from BPCA specifying the defect or damage required to be removed, replaced or repaired, or if such defect or damage is of such a nature that it cannot be completely removed, repaired and replaced within such ten (10) day period and Contractor shall not have diligently commenced removing, repairing and replacing such defect and damage within such ten (10) day period or shall not thereafter with reasonable diligence and in good faith proceed to do such work, BPCA may employ such other person, firm or corporation as it may choose, to perform such removal, replacement and repair, and Contractor shall, upon demand, pay to BPCA all amounts that BPCA expends for such removal, replacement and repair.

ARTICLE 21 - INDEMNITY

21.1 Delay or Failure

Contractor and its sureties shall be responsible for and pay to BPCA, all loss, damage and additional cost incurred by reasons or on account of (i) the unexcused delays of Contractor

(determined as set forth in Section 3.1 hereof) or (ii) Contractor's failure to fully and completely carry out the terms of this Agreement.

21.2 Inventions

In addition to the indemnity set forth in Section 17.5(a), Contractor shall indemnify and hold BPCA harmless from all claims, demands or liabilities of any kind or nature, including costs and expenses, for or on account of any patented or unpatented plan, design, invention, article, arrangement, appliance, Material, or preparation, manufactured, used or followed in the performance of or incident to the Work hereunder, and shall defend any and all actions arising out of the same. In the event of any injunction or legal action by reason thereof, which shall operate to stop or retard the Work, BPCA shall have the right to substitute such other articles of like kind as will enable it to complete the Project, and all costs and expenses occasioned thereby shall be borne by Contractor.

21.3 Liability

To the fullest extent allowed by law, Contractor shall hold BPCA, BPCPC, the State of New York, Construction Manager and Architect and their servants, agents and employees harmless from and shall indemnify them against any and all liability, loss, cost, damage or expense, including attorneys' fees, by reason of claims of Contractors employees or employees of its Subcontractors or Materialmen for injuries or death or by reason of claims of any other person or persons, including BPCA, BPCPC, the State of New York, Construction Manager, and Architect and their servants, agents or employees, for injuries to person or property or for death occasioned in whole or in part by any act or omission of Contractor, its Subcontractors and Materialmen and their servants, agents and employees whether or not it is contended that BPCA contributed thereto or was responsible therefor by reason of nondelegable duty. If, however, this indemnification is limited by applicable law, then the said indemnification hereby shall be similarly limited to conform with such law, it being the intention that this indemnification shall be as permitted by applicable law. BPCA may retain any monies due or to become due hereunder sufficient to indemnify BPCA, BPCPC, the State of New York, Construction Manager, and Architect and their servants, agents and employees against such injuries, claims, suits, actions, costs or damages should any such claim arise. Contractor shall, at the sole option of BPCA and upon written demand of BPCA, assume the defense in behalf of BPCA, BPCPC, the State of New York, Construction Manager, and Architect or their servants, agents or employees of any action or proceeding commenced against them whether or not Contractor is named as a party therein as part of Contractor's aforementioned obligation to indemnify and hold them harmless.

ARTICLE 22 - PATENTS AND ROYALTIES

(a) In the prosecution of the Work, Contractor will not use or furnish any patented appliance, article, device or method of construction unless it has authorization for such use. Contractor shall pay all royalty and license fees.

(b) Any approval of Materials by Architect shall be construed merely as an approval of their adequacy for the Work.

(c) Contractor will be responsible for all claims against BPCA for the infringement of

any patents. Contractor shall defend all suits and claims for infringement of any patent rights and shall indemnify and hold BPCA harmless from loss on account thereof. Any expenses incurred by Contractor in connection with suits and claims will not offset the Contract Price.

(d) Contractor hereby and presently grants to BPCA an irrevocable and non-exclusive license to utilize all of the Contractor's rights in and to all:

- (1) United States patents and patents registered in any other foreign country;
- (2) proprietary knowledge, data and trade secrets; and
- (3) Engineering data and information necessary in connection with and solely in connection with, all work performed by BPCA or other contractors hired by BPCA to complete the work after termination of this Agreement pursuant to Section 15.1.

Each Purchase Order and Subcontract shall contain a similar clause with respect to the rights of Subcontractor and Materialman in and to the foregoing, in form and substance acceptable to BPCA, granting BPCA the aforesaid license. BPCA shall not be obligated to pay any royalties, license fees or any other consideration to Contractor or any Subcontractor or Materialman for this license. Contractor and each Subcontractor and Materialman shall execute a separate license agreement, in form and substance satisfactory to BPCA, concurrently with the execution of this Agreement, or any Subcontract or Purchase Order, or within ten (10) days thereafter, embodying the terms of this Section. On request, Contractor and each Subcontractor and Materialman shall furnish BPCA with copies of all related Engineering and technical data required to complete the work.

ARTICLE 23 - AS-BUILT DRAWINGS

(a) Contractor shall be furnished by BPCA, at BPCA's expense, with one physical set and two electronic copies (on disk) of 48" x 36" Drawings, on which Contractor, where applicable, shall record the installation of underground utilities, concealed piping, concealed valves and control equipment and record changes in the Work. Such recording shall be kept current and include final and actual sizes as well as the location and elevation of the above figures and offset distances in feet and inches to permanent surface improvements such as buildings, retaining walls or curbs. During the progress of the Work, at the request of Construction Manager and prior to the approval of any Requisition of Contractor, Contractor shall provide a 48" x 36" PDF to BPCA of the up to-date Drawings showing the Work as installed. At completion of the Work, Contractor shall complete, sign and date the 48" x 36" physical set of Drawings and deliver it to Architect.

(b) After review by Architect and return to Contractor for any required changes, Contractor shall furnish to BPCA, at Contractor's expense, at least one physical set and two electronic copies (on disk) of 48" x 36" final Drawings.

ARTICLE 24 - SHOP DRAWINGS AND SAMPLES

24.1 Contractor Submittal

Contractor shall submit to Construction Manager the shop drawings, Product Data and Samples required by the Contract Documents and shall adhere to all submittal and scheduling requirements with respect thereto. After review of such shop drawings, Product Data and Samples by Construction Manager and their approval by Architect, each of such items shall be returned in accordance with the procedures established therefor.

24.2 Contractor's Responsibility

Architect's approval of shop drawings, Product Data and Samples shall not relieve Contractor of responsibility for and deviation from the requirements of the Contract Documents. Contractor shall be responsible for the accuracy of the shop drawings, Product Data and Samples and for the conformity of Documents unless Contractor has notified Architect of the deviation in writing at the time of submission and has received from Architect written approval by separate letter of the specified deviations. Architect's approval shall not relieve Contractor of responsibility for errors or omissions in the shop drawings, Product Data or Samples.

ARTICLE 25 – NOTICES

Whenever it is provided herein that notice, demand, request, consent, approval or other communication shall or may be given to, or served upon, either of the parties by the other, or whenever either of the parties desires to give or serve upon the other any notice, demand, request, consent, approval or other communication with respect hereto, each such notice, demand, request, consent, approval or other communication shall be in writing and shall be effective for any purpose only if given or served by hand with proof of delivery, by delivery by an overnight courier service which obtains receipts, or by mailing the same by express or certified mail, postage prepaid, return receipt requested, addressed to:

- (a) if to BPCA:

Battery Park City Authority
Attn: [Name], [Title]
200 Liberty Street, 24th Fl
New York, NY 10281

with a copy to: General Counsel, at the same address

or to such other address as BPCA may from time to time designate in the manner set forth above.

- (b) if to Contractor:

[Company]
Attn: [Name], [Title]
[Street Address]

[City, State, Zip]

or to such other addresses as Contractor may from time to time designate in the manner set forth above.

- (c) if to Construction Manager

[Company]

Attn: [Name], [Title]

[Street Address]

[City, State, Zip]

or to such other addresses as the Construction Manager may from time to time designate in the manner set forth above.

- (d) if to Architect/Engineer/etc.

[Company]

Attn: [Name], [Title]

[Street Address]

[City, State, Zip]

or to such other addresses as Architect or Engineer may from time to time designate in the manner set forth above.

Every notice, demand, request, consent, approval or other communication hereunder shall be deemed to have been given or served (i) in the case of express or certified mail, on the date the receipt is dated by the Post Office or express mail carrier, as the case may be, and (ii) in the case of notice by hand or by overnight courier service, upon delivery, as evidenced by a signed receipt.

ARTICLE 26 – EMPLOYMENT AND DIVERSITY

26.1 Participation by Minority and Women-Owned Business Enterprises

- (a) General Provisions

(1) Owner is required to implement the provisions of New York State Executive Law Article 15-A and Parts 140-145 of Title 5 of the New York Codes, Rules and Regulations (“NYCRR”) for all contracts, as defined therein, with a value (1) in excess of \$25,000 for labor, services, equipment, materials, or any combination of the foregoing or (2) in excess of \$100,000 for real property renovations and construction.

(2) Contractor agrees, in addition to any other nondiscrimination provision herein and at no additional cost to Owner, to fully comply and cooperate with Owner in the implementation of New York State Executive Law Article 15-A and the regulations promulgated thereunder. These requirements include equal employment opportunities for minority group members and women (“EEO”) and contracting opportunities for New York State-certified minority and women-owned business enterprises (“MWBs”). Contractor’s demonstration of

“good faith efforts” pursuant to 5 NYCRR § 142.8 shall be a part of these requirements. These provisions shall be deemed supplementary to, and not in lieu of, the nondiscrimination provisions required by New York State Executive Law Article 15 (the “Human Rights Law”) and other applicable federal, state, and local laws.

(3) Failure to comply with all of the requirements herein may result in a finding of non-responsiveness, non-responsibility and/or a breach of contract, leading to the assessment of liquidated damages pursuant to Section 26.1(g) and such other remedies as are available to Owner.

(b) Contract Goals

(1) For purposes of this Contract, Owner hereby establishes an overall goal of XX% for MWBE participation, XX% for New York State-certified minority-owned business enterprise (“MBE”) participation and XX% for New York State-certified women-owned business enterprise (“WBE”) participation (collectively, “MWBE Contract Goals”) based on the current availability of MBEs and WBEs.

(2) For purposes of providing meaningful participation by MWBEs on the Agreement and achieving the MWBE Contract Goals established in Section 26.1(b)(1) hereof, Contractor should reference the directory of MWBEs at the following internet address: <https://ny.newnycontracts.com>.

(3) Additionally, Contractor is encouraged to contact the Division of Minority and Women’s Business Development at (212) 803-2414 to discuss additional methods of maximizing participation by MWBEs on this Agreement.

(4) Contractor understands that only sums paid to MWBEs for the performance of a commercially useful function, as that term is defined in 5 NYCRR § 140.1, may be applied towards the achievement of the applicable MWBE participation goal. [FOR CONSTRUCTION CONTRACTS – The portion of a contract with an MWBE serving as a supplier that shall be deemed to represent the commercially useful function performed by the MWBE shall be 60% of the total value of the contract. The portion of a contract with an MWBE serving as a broker that shall be deemed to represent the commercially useful function performed by the MWBE shall be the monetary value for fees, or the markup percentage, charged by the MWBE]. [FOR ALL OTHER CONTRACTS - The portion of a contract with an MWBE serving as a broker that shall be deemed to represent the commercially useful function performed by the MWBE shall be 25% of the total value of the contract.]

(5) Contractor must document “good faith efforts,” pursuant to 5 NYCRR § 142.8, to provide meaningful participation by MWBEs as Subcontractors and suppliers in the performance of this Agreement. Such documentation shall include, but not necessarily be limited to:

- (A) Evidence of outreach to MWBEs;
- (B) Any responses by MWBEs to Contractor’s outreach;
- (C) Copies of advertisements for participation by MWBEs in appropriate general circulation, trade, and minority or women-oriented publications;

- (D) The dates of attendance at any pre-bid, pre-award, or other meetings, if any, scheduled by Owner with MWBEs; and,
- (E) Information describing specific steps undertaken by Contractor to reasonably structure the Work to maximize opportunities for MWBE participation.

(c) Equal Employment Opportunity (“EEO”)

(1) The provisions of Article 15-A of the Executive Law and the rules and regulations promulgated thereunder pertaining to equal employment opportunities for minority group members and women shall apply to this Agreement.

(2) In performing the Agreement, Contractor shall:

(A) Ensure that each Contractor and Subcontractor performing work on the Agreement shall undertake or continue existing EEO programs to ensure that minority group members and women are afforded equal employment opportunities without discrimination because of race, creed, color, national origin, sex, age, disability or marital status. For these purposes, EEO shall apply in the areas of recruitment, employment, job assignment, promotion, upgrading, demotion, transfer, layoff, or termination and rates of pay or other forms of compensation.

(B) Contractor shall submit an EEO policy statement to Owner within seventy-two (72) hours after the date of the notice by Owner to award the Agreement to Contractor.

(C) If Contractor, or any of its Subcontractors, does not have an existing EEO policy statement, Owner may require Contractor or Subcontractor to adopt a model statement (see Exhibit D – Equal Employment Opportunity Policy Statement).

(D) Contractor’s EEO policy statement shall include the following language:

(i) Contractor will not discriminate against any employee or applicant for employment because of race, creed, color, national origin, sex, age, disability, or marital status, will undertake or continue existing EEO programs to ensure that minority group members and women are afforded equal employment opportunities without discrimination, and shall make and document its conscientious and active efforts to employ and utilize minority group members and women in its work force.

(ii) Contractor shall state in all solicitations or advertisements for employees that, in the performance of the contract, all qualified applicants will be afforded equal employment opportunities without discrimination because of race, creed, color, national origin, sex, age, disability or marital status.

(iii) Contractor shall request each employment agency, labor union, or authorized representative of workers with which it has a collective bargaining or other agreement or understanding, to furnish a written statement that such employment agency, labor union, or representative will not discriminate on the basis of race, creed, color, national origin, sex

age, disability or marital status and that such union or representative will affirmatively cooperate in the implementation of Contractor's obligations herein.

(iv) Contractor will include the provisions of Sections 26.1(c)(2)(D)(i) through (iii), which provides for relevant provisions of the Human Rights Law, in every subcontract in such a manner that the requirements of the subdivisions will be binding upon each Subcontractor as to the Work.

[PLEASE NOTE THAT THIS REQUIREMENT “C” IS ONLY APPLICABLE WHERE A STATE AGENCY EXPECTS TO ENTER INTO A STATE CONTRACT WITH A TOTAL EXPENDITURE IN EXCESS OF \$250,000. NOTE: THIS LANGUAGE SHOULD BE DELETED FROM THE FINAL CONTRACT]

(3) Staffing Plan. To ensure compliance with this Section, Contractor shall submit a staffing plan to document the composition of the proposed workforce to be utilized in the performance of the Agreement by the specified categories listed, including ethnic background, gender, and Federal occupational categories. Contractor shall complete the staffing plan form (<https://www.ogs.ny.gov/MWBE/Docs/EEO100.docx>) and submit it as part of their bid or proposal or within a reasonable time, as directed by Owner.

WORKFORCE UTILIZATION REPORTS SHALL BE COLLECTED ON A MONTHLY BASIS FOR CONSTRUCTION CONTRACTS AND A QUARTERLY BASIS FOR ALL OTHER CONTRACTS. NOTE: THIS LANGUAGE SHOULD BE DELETED FROM THE FINAL CONTRACT]

(4) Workforce Utilization Report

(A) Contractor shall submit a Workforce Utilization Report (https://its.ny.gov/sites/default/files/documents/eo_workforce_utilization_report.xlsx) and shall require each of its Subcontractors to submit a Workforce Utilization Report, in such form as shall be required by Owner on a monthly/quarterly basis during the term of this Agreement.

(B) Separate forms shall be completed by Contractor and any Subcontractors.

(C) Pursuant to Executive Order #162, Contractors and Subcontractors are also required to report the gross wages paid to each of their employees for the work performed by such employees on the contract on a monthly/quarterly basis.

(5) Contractor shall comply with the provisions of the Human Rights Law, and all other State and Federal statutory and constitutional non-discrimination provisions. Contractor and its Subcontractors shall not discriminate against any employee or applicant for employment because of race, creed (religion), color, sex, national origin, sexual orientation, military status, age, disability, predisposing genetic characteristic, marital status or domestic violence victim status, and shall also follow the requirements of the Human Rights Law with regard to non-discrimination on the basis of prior criminal conviction and prior arrest.

(d) MWBE Utilization Plan

(i) Contractor represents and warrants that Contractor has submitted an MWBE Utilization Plan, or shall submit an MWBE Utilization Plan at such time as shall be required by Owner, through the New York State Contract System ("NYSCS"), which can be viewed at <https://ny.newnycontracts.com>, provided, however, that Contractor may arrange to provide such evidence via a non-electronic method to Owner, either prior to, or at the time of, the execution of the contract.

(ii) Contractor agrees to adhere to such MWBE Utilization Plan in the performance of the Work.

(iii) Contractor further agrees that failure to submit and/or adhere to such MWBE Utilization Plan shall constitute a material breach of the terms of the Agreement. Upon the occurrence of such a material breach, Owner shall be entitled to any remedy provided herein, including but not limited to, a finding that Contractor is non-responsive.

(e) Waivers

(i) If Contractor, after making good faith efforts, is unable to achieve the MWBE Contract Goals stated herein, Contractor may submit a request for a waiver through the NYSCS, or a non-electronic method provided by Owner. Such waiver request must be supported by evidence of Contractor's good faith efforts to achieve the maximum feasible MWBE participation towards the applicable MWBE Contract Goals. If the documentation included with the waiver request is complete, Owner shall evaluate the request and issue a written notice of approval or denial within twenty (20) business days of receipt.

(ii) If Owner, upon review of the MWBE Utilization Plan, quarterly MWBE Contractor Compliance Reports described in Section 26.1(c)(iv)(C), or any other relevant information, determines that Contractor is failing or refusing to comply with the MWBE Contract Goals, and no waiver has been issued in regards to such non-compliance, Owner may issue a notice of deficiency to Contractor. Contractor must respond to the notice of deficiency within seven (7) business days of receipt. Such response may include a request for partial or total waiver of MWBE Contract Goals.

(f) Contractor is required to submit a quarterly MWBE Contractor Compliance Report through the NYSCS, provided, however, that Contractor may arrange to provide such report via a non-electronic method to Owner by the 10th day following the end of each quarter during the term of the Agreement.

(g) Liquidated Damages - MWBE Participation

(1) Where Owner determines that Contractor is not in compliance with the requirements of this Section 26.1 and Contractor refuses to comply with such requirements, or if Contractor is found to have willfully and intentionally failed to comply with the MWBE participation goals, Contractor shall be obligated to pay to Owner liquidated damages.

(2) Such liquidated damages shall be calculated as an amount equaling the difference between:

(A) All sums identified for payment to MWBEs had Contractor achieved the contractual MWBE goals; and

(B) All sums actually paid to MWBEs for work performed or materials supplied under the Agreement.

(3) In the event a determination has been made which requires the payment of liquidated damages and such identified sums have not been withheld by Owner, Contractor shall pay such liquidated damages to Owner within sixty (60) days after they are assessed. Provided, however, that if Contractor has filed a complaint with the Director of the Division of Minority and Women's Business Development pursuant to 5 NYCRR § 142.12, liquidated damages shall be payable only in the event of a determination adverse to Contractor following the complaint process.

26.2 Participation by Service-Disabled Veteran-Owned Businesses

(a) General Provisions

Article 17-B of the New York State Executive Law provides for more meaningful participation in public procurement by New York State-certified Service-Disabled Veteran-Owned Businesses ("SDVOB"), thereby further integrating such businesses into New York State's economy. Owner recognizes the need to promote the employment of service-disabled veterans and to ensure that certified service-disabled veteran-owned businesses have opportunities for maximum feasible participation in the performance of Owner contracts.

In recognition of the service and sacrifices made by service-disabled veterans and in recognition of their economic activity in doing business in New York State, Contractors are expected to consider SDVOBs in the fulfillment of the requirements of the Agreement. Such participation may be as Subcontractors or suppliers, as protégés, or in other partnering or supporting roles.

(b) Contract Goals

(i) Owner hereby establishes an overall goal of ___% for SDVOB participation, based on the current availability of qualified SDVOBs. For purposes of providing meaningful participation by SDVOBs, the Contractor should reference the directory of New York State Certified SDVOBs found at: http://ogs.ny.gov/Core/docs/CertifiedNYS_SDVOB.pdf. Questions regarding compliance with SDVOB participation goals should be directed to Anthony Peterson at anthony.peterson@bpca.ny.gov or (212) 417-2337. Additionally, following execution of this Agreement, Contractor is encouraged to contact the Office of General Services' Division of Service-Disabled Veterans' Business Development at 518-474-2015 or VeteransDevelopment@ogs.ny.gov to discuss additional methods of maximizing participation by SDVOBs on the Agreement.

(ii) Contractor must document “good faith efforts” to provide meaningful participation by SDVOBs as subcontractors or suppliers in the performance of the Contract (see Section 26.2(d) below).

(c) SDVOB Utilization Plan

(i) In accordance with 9 NYCRR § 252.2(i), Contractors are required to submit a completed SDVOB Utilization Plan on Form SDVOB 100 (https://ogs.ny.gov/Veterans/Docs/2016/SDVOB_100_Utilization_Plan.docx) with their bid.

(ii) The Utilization Plan shall list the SDVOBs that Contractor intends to use to perform the Work, a description of the Work that Contractor intends the SDVOB to perform to meet the goals on the Agreement, the estimated dollar amounts to be paid to an SDVOB, or, if not known, an estimate of the percentage of Work the SDVOB will perform. By signing the Utilization Plan, Contractor acknowledges that making false representations or providing information that shows a lack of good faith as part of, or in conjunction with, the submission of a Utilization Plan is prohibited by law and may result in penalties including, but not limited to, termination of a contract for cause, loss of eligibility to submit future bids, and/or withholding of payments. Any modifications or changes to the agreed participation by SDVOBs after the contract award and during the term of the Agreement must be reported on a revised SDVOB Utilization Plan and submitted to Owner.

(iii) Owner will review the submitted SDVOB Utilization Plan and advise the Contractor of Owner acceptance or issue a notice of deficiency within 20 days of receipt.

(iv) If a notice of deficiency is issued, Contractor agrees that it shall respond to the notice of deficiency, within seven business days of receipt, by submitting to Owner a written remedy in response to the notice of deficiency. If the written remedy that is submitted is not timely or is found by Owner to be inadequate, Owner shall notify Contractor and direct the Contractor to submit, within five business days of notification by Owner, a request for a partial or total waiver of SDVOB participation goals on Form SDVOB 200 (https://ogs.ny.gov/Veterans/Docs/2016/SDVOB_200_Waiver_Form.docx). Failure to file the waiver form in a timely manner may be grounds for disqualification of the bid or proposal.

(v) Owner may disqualify a Contractor’s bid or proposal as being non-responsive under the following circumstances:

- (A) If Contractor fails to submit an SDVOB Utilization Plan;
- (B) If Contractor fails to submit a written remedy to a notice of deficiency;
- (C) If Contractor fails to submit a request for waiver; or
- (D) If Owner determines that Contractor has failed to document good faith efforts.

(vi) Contractor certifies that it will follow the submitted SDVOB Utilization Plan for the performance of SDVOBs on the Agreement pursuant to the prescribed SDVOB contract goals set forth above.

(vii) Contractor further agrees that a failure to use SDVOBs as agreed in the Utilization Plan shall constitute a material breach of the terms of the Contract. Upon the occurrence of such a material breach, Owner shall be entitled to any remedy provided herein, including but not limited to, a finding of Contractor non-responsibility.

(d) Waivers

(i) Prior to submission of a request for a partial or total waiver, Contractor shall speak to Anthony Peterson at anthony.peterson@bpca.ny.gov or (212) 417-2337 for guidance.

(ii) In accordance with 9 NYCRR § 252.2(m), a Contractor that is able to document good faith efforts to meet the goal requirements, as set forth in Section 26.2(e) below, may submit a request for a partial or total waiver on Form SDVOB 200 (https://ogs.ny.gov/Veterans/Docs/2016/SDVOB_200_Waiver_Form.docx), accompanied by supporting documentation. Contractor may submit the request for waiver at the same time it submits its SDVOB Utilization Plan. If a request for waiver is submitted with the SDVOB Utilization Plan and is not accepted by Owner at that time, the provisions of Section 26.2(c)(iii), (iv) and (v) will apply. If the documentation included with the Contractor's waiver request is complete, Owner shall evaluate the request and issue a written notice of acceptance or denial within 20 days of receipt.

(iii) Contractor shall attempt to utilize, in good faith, the SDVOBs identified within its SDVOB Utilization Plan, during the performance of the Work. Requests for a partial or total waiver of established goal requirements made subsequent to award of the Agreement may be made at any time during the term of the Agreement to Owner, but must be made no later than prior to the submission of a request for final payment.

(iv) If Owner, upon review of the SDVOB Utilization Plan and Monthly SDVOB Compliance Report determines that Contractor is failing or refusing to comply with the contract goals and no waiver has been issued in regards to such non-compliance, Owner may issue a notice of deficiency to the Contractor. The Contractor must respond to the notice of deficiency within seven business days of receipt. Such response may include a request for partial or total waiver of SDVOB contract goals. Waiver requests should be sent to Owner.

(e) Required Good Faith Efforts. In accordance with 9 NYCRR § 252.2(n), Contractors must document their good faith efforts toward utilizing SDVOBs on the Agreement. Evidence of required good faith efforts shall include, but not be limited to, the following:

(i) Copies of solicitations to SDVOBs and any responses thereto.

(ii) Explanation of the specific reasons each SDVOB that responded to Contractors' solicitation was not selected.

(iii) Dates of any pre-bid, pre-award or other meetings attended by Contractor, if any, scheduled by Owner with certified SDVOBs whom Owner determined were capable of fulfilling the SDVOB goals set in the Agreement.

(iv) Information describing the specific steps undertaken to reasonably structure the Work for the purpose of subcontracting with, or obtaining supplies from, certified SDVOBs.

(v) Other information deemed relevant to the waiver request.

(f) Monthly SDVOB Contractor Compliance Report

In accordance with 9 NYCRR § 252.2(q), Contractor is required to report Monthly SDVOB Contractor Compliance to Owner during the term of the Agreement for the preceding month's activity, documenting progress made towards achieving the SDVOB goals. This information must be submitted using form SDVOB 101 available at https://ogs.ny.gov/Veterans/Docs/2016/SDVOB_101_Monthly_Compliance%20Report.docx and should be completed by the Contractor and submitted to Owner, by the 10th day of each month during the term of the Contract, for the preceding month's activity to: Anthony Peterson at anthony.peterson@bpca.ny.gov.

(g) Breach of Contract and Damages

In accordance with 9 NYCRR § 252.2(s), any Contractor found to have willfully and intentionally failed to comply with the SDVOB participation goals set forth in this Agreement, shall be found to have breached the Agreement and Contractor shall pay damages as set forth therein.

ARTICLE 27 - STANDARD PROVISIONS

27.1 Provision Required by Law Deemed Inserted

Each and every provision of law and governmental regulation required by law to be inserted in the Contract Documents shall be deemed to be inserted therein and this Agreement shall read and shall be enforced as though so included therein, and if through mistake or otherwise any such provision is not inserted, or is not correctly inserted, then upon the application of either party, this Agreement shall be deemed to be amended to make such insertion or correction. If this Agreement contains any unlawful provision, the same shall be deemed of no effect and shall, upon the application of either party, be deemed stricken from this Agreement without affecting the binding force of the remainder.

27.2 Compliance with Laws, Rules and Regulations

Contractor and each Subcontractor and Materialman shall comply fully with all applicable laws, rules and regulations pertaining to the Project and the Work.

27.3 Applicable Law, Forum and Jurisdiction

This Agreement shall be governed by the laws of the State of New York. All actions or proceedings relating, directly or indirectly, to this Agreement shall be litigated only in courts located within the County of New York. Contractor, any guarantor of the performance of its obligations hereunder (including sureties for Payment and Performance Bonds) (“**Guarantor**”) and their successors and assigns hereby subject themselves to the jurisdiction of any state or federal

court located within such county, waive the personal service of any process upon them in any action or proceeding therein and consent that such process be served by certified or registered mail, return receipt requested, directed to the Contractor and any successor at Contractor's address hereinabove set forth, to Guarantor and any successor at the address set forth in the instrument of guaranty and to any assignee at the address set forth in the instrument of assignment. Such service shall be deemed made as of the date of the return receipt.

27.4 No Third Party Rights

Nothing in this Agreement shall create or shall give to third parties any claim or right of action against BPCA, Construction Manager, or Architect beyond such as may legally exist irrespective of this Agreement.

27.5 Exculpation; Limitation of Liability

In no event shall any claim be asserted under this Agreement by Contractor or any Subcontractor or Materialman against any member, officer, employee, lessee, Contractor or agent of BPCA, Construction Manager, or Architect. By execution of this Agreement, Contractor agrees to look solely to BPCA with respect to any claim which may arise. It is hereby understood by and between the parties hereto that BPCA shall only be liable to the extent of monies available to BPCA.

27.6 Protection of Lives and Health

(a) Contractor's, Subcontractor's and Materialman's attention is specifically called to the rules and regulations, codes and bulletins of the New York State Department of Labor. Attention is also directed to the standards imposed under the Federal Occupational Safety and Health Act of 1970, as amended.

(b) Contractor shall maintain an accurate record of all cases of death, occupational disease, and injury requiring medical attention or causing loss of time from work, arising out of and in the course of employment on work under this Agreement, and shall immediately notify BPCA in writing of any injury which results in hospitalization or death. Contractor shall also complete and submit to BPCA the "Incident Report Form" attached hereto and made a part hereof as Exhibit F within 48 hours of the occurrence of any such injury.

(c) Contractor alone shall be responsible for the safety, efficiency and adequacy of contractor's work, plant, appliances and methods, and for any damage that may result from the failure, or the improper construction, maintenance, or operation of such work, plant, appliances and methods.

27.7 Waiver of Immunity Clause

Contractor hereby agrees to the provisions of New York Public Authorities Law Section 2875, which require that a person, when called before a grand jury, head of a State department, temporary State commission, or other State agency, the Organized Crime Task Force in the State Department of Law, head of a department or other City agency, which is empowered to compel the attendance of witnesses and examine them under oath, to testify in an investigation concerning

any transaction or contract had with the State, any political subdivision thereof, or with any public department, agency or official of the State, a public authority or with any public department, agency or official of the State or of any political subdivision thereof or of a public authority, that person must sign a waiver of immunity against subsequent criminal prosecution or to answer any relevant questions concerning such transaction or contract. Upon the refusal of any person to comply with such provisions:

(a) such person, and any firm, partnership or corporation of which such person is a member, partner, director or officer shall be disqualified from thereafter selling to or submitting bids to or receiving awards from or entering into any contracts with any public authority or official thereof, for goods, work or services, for a period of five (5) years after such refusal; and

(b) any and all contracts made with any public authority or official thereof, by such person, and by any firm, partnership or corporation of which such person is a member, partner, director or officer may be canceled or terminated by the public authority without incurring any penalty or damages on account of such cancellation or termination, but any monies owing by the public authority for goods delivered or work done prior to the cancellation or termination shall be paid.

27.8 Prohibited Interests

No official of BPCA who is authorized in such capacity and on behalf of BPCA to negotiate, make, accept, or approve, or take part in negotiating, making, accepting, or approving any Architectural, Engineering, inspection, Purchase Order or any Subcontract in connection with the Work, shall become directly or indirectly interested personally in the Agreement. Contractor is advised that no official or employee of BPCA is permitted to indirectly solicit, accept, or receive gifts whether in the form of money, service, loan, travel, entertainment, hospitality, thing or promise, or in any other form. No officer, employee, architect, attorney, engineer, inspector or Contractor of or for BPCA who is authorized in such capacity and on behalf of BPCA to exercise any legislative, executive, supervisory or other similar functions in connection with the Work, shall become directly or indirectly interested personally in the Agreement, any Purchase Order, Subcontract, insurance contract, or any other contract pertaining to the Work.

27.9 Labor Provisions

(a) It is hereby agreed that all applicable provision of the Labor Law of the State of New York shall be carried out in the performance of the Work.

(b) Contractor specifically agrees, as required by New York Labor Law Sections 220 and 220-d as amended, that:

(1) no laborer, workman or mechanic, in the employ of Contractor, Subcontractor, Materialman or other person doing or contracting to do the whole or any part of the Work contemplated by the Contract Documents shall be permitted or required to work more than eight (8) hours in any one calendar day or more than five (5) days in any one week, except in the emergencies set forth in the Labor Law.

(2) the wages paid for a legal day's work shall be not less than the prevailing

rate of wages as defined by law;

(3) the minimum hourly rate of wage to be paid shall be not less than that stated in the Contract Documents and as shall be designated by the Industrial Commissioner of the State of New York; and

(4) Contractor shall post at appropriate conspicuous points at the Site, a schedule showing all determined minimum wage rates for the various classes of laborers and mechanics to be engaged in the Work and all deductions, if any, required by law to be made from unpaid wages actually earned by the laborers and mechanics so engaged.

(c) The minimum wage rates, if any, herein specified for apprentices shall apply only to persons working with the tools of the trade which such persons are learning under the direct supervision of journeymen mechanics. Except as otherwise required by law, the number of apprentices in each trade or occupation employed by Contractor or any Subcontractor or Materialman shall not exceed the number permitted by the applicable standards of the New York State Department of Labor, or, in the absence of such standards, the number permitted under the usual practice prevailing between the unions and the employers' association of the respective trades or occupations.

(d) All employees of Contractor and each Subcontractor and Materialman shall be paid in accordance with the provisions of the Labor Law.

(e) Contractor agrees that, in case of underpayment of wages to any worker engaged in the Work by Contractor or any Subcontractor or Materialman, BPCA shall withhold from Contractor out of payments due an amount sufficient to pay such worker the difference between the wages actually paid such worker for the total number of hours worked, and that BPCA may disburse such amount so withheld by BPCA for and on account of Contractor to the employee to whom such amount is due. Contractor further agrees that the amount to be withheld pursuant to this paragraph may be in addition to the percentages to be retained by BPCA pursuant to other provisions of the Contract Documents.

(f) The Labor Law provides that this Agreement may be terminated for cause and no sum paid for any Work done thereunder upon a second conviction for willfully paying less than:

- (1) the stipulated wage scale as set forth in New York Labor Law Section 220, subdivision 3, as amended, or
- (2) less than the stipulated minimum hourly wage scale as specified in Labor Law, Section 220-d, as amended.

(g) Contractor specifically agrees, as required by the New York Labor Law Section 220-e, as amended, that:

(1) in the hiring of employees for the performance of Work under this Agreement or any Subcontract or Purchase Order hereunder, or for the manufacture, sale or distribution of Materials, equipment or supplies hereunder, but limited to operations performed within the territorial limits of the State of New York, no Contractor, Subcontractor, Materialman

or any person acting on behalf of such Contractor or Subcontractor, or Materialman, shall by reason of race, creed, color, sex or national origin discriminate against any citizen of the State of New York who is qualified and available to perform the work to which the employment relates;

(2) no Contractor, Subcontractor, Materialman, or any person on behalf of such Contractor, Subcontractor or Materialman shall, in any manner, discriminate against or intimidate any employee hired for the performance of work under this Agreement on account of race, creed, color, sex or national origin;

(3) there may be deducted from the amount payable to Contractor, by BPCA under this Agreement, a penalty of \$50.00 for each person for each calendar day during which such person was discriminated against or intimidated in violation of the terms of this Agreement; and

(4) this Agreement may be canceled or terminated for cause by BPCA and all monies due or to become due hereunder may be forfeited for a second or any subsequent violation of the terms or conditions of this Section of this Agreement.

(h) Where applicable, Contractor agrees to settle labor disputes in accordance with the provisions of The New York Plan For The Settlement of Jurisdictional Disputes Between The Building And Construction Trades Council Of Greater New York And The Building Trades Employers' Association Of The City of New York.

27.10 Disputes Resolution Procedure

(a) The provisions of this Article shall constitute Contractor's sole means for challenging any determination, order or other act or omission of BPCA or otherwise asserting against BPCA any claim of whatever nature arising under, or in any way relating to, this Agreement (any such challenge or assertion by Contractor being herein referred to as a "**Dispute(s)**"). Exhaustion of these dispute resolution procedures, including the judicial review set forth below, shall be the parties' sole remedy in connection with any Dispute.

(b) The parties to this Agreement hereby authorize and agree to the resolution of all Disputes arising out of, under or in connection with, this Agreement in accordance with the following and pursuant to the procedures set forth in paragraph (c) of this Section 27.10. With respect to any Dispute which relates in whole or primary part to technical issue(s) under this Agreement including, without limitation, determinations as to the acceptability or fitness of any Work, the meaning or interpretation of the Contract Documents, the question of whether any Work falls within the scope of the Specifications set forth in the Contract Documents, the acceptability of any proposed substitutions, modifications or other submissions under this Agreement, the disapproval of proposed Subcontractors or Materialmen (to the extent such disapproval is related to technical issues), the extension of time to the extent related to a technical matter, the question of whether substantial completion or final completion has been achieved, the parties hereby authorize the General Counsel of BPCA, or his/her designee, (hereinafter referred to as the "**Arbiter**"), acting personally, to render a final and binding decision.

(c) All Disputes shall be initiated through a written submission by either party (such submission to be hereinafter referred to as the "**Dispute Notice**") to the Arbiter within ten (10)

days of the determination, order or other act or omission which is the subject of the Dispute. Within ten (10) days after the submission of such Dispute Notice, the party initiating the Dispute shall provide the Arbiter with all evidence and other pertinent information in support of the party's position and/or claim. Within thirty (30) days from the date of the Dispute Notice, the party against whom the Dispute Notice was filed shall submit any and all materials which it deems pertinent to the Arbiter. Upon submission of a Dispute Notice to the Arbiter, the Arbiter shall render its decision in writing and deliver a copy of same to the parties within a reasonable time not to exceed sixty (60) days after the receipt of all materials. In rendering such decision, the Arbiter may seek such technical or other expertise as it shall deem necessary or appropriate (notifying both parties to the Dispute when he/she so seeks such other information or expertise) and seek any such additional oral and/or written argument or materials from either or both parties to the Dispute as he/she deems fit. The Arbiter shall have the discretion to extend the time for submittals required hereunder. The Arbiter's ability to render and the effect of a decision hereunder shall not be impaired or waived by any negotiations or settlement offers in connection with the matter presented, whether or not the Arbiter participated therein, or by any prior decision of others, or by any termination or cancellation of this Agreement. The decision of the Arbiter shall be final and binding on both parties to this Agreement.

(d) It is expressly understood and agreed that the pendency of a Dispute hereunder shall at no time and in no respect constitute a basis for any modification, limitation or suspension of Contractor's obligation to fully perform in accordance with this Agreement and that Contractor shall remain fully obligated to perform the Work notwithstanding the existence of any such Dispute.

27.11 Additional Provisions Relating to the Prosecution of Claims for Money Damages

(a) Except as otherwise provided in this Agreement, if Contractor claims or intends to claim compensation or money damages for any damage or loss sustained by reason of any determination, order or other act or omission of BPCA, Contractor shall furnish a written notice to the Arbiter setting forth the nature of the claim and the extent of the damage sustained within ten (10) days of the occurrence of such loss or damages. This written notice shall constitute Contractor's submission to the Arbiter for the purposes of requesting the Arbiter's determination in accordance with Section 27.10 above. Any such claim shall state as fully as then possible all information relating thereto and shall be supported by any then available documentation, including daily records showing all costs incurred. Such information shall be supplemented with any and all further information, including information relating to the quantum of losses or damages sustained, as soon as practicable after the information becomes or reasonably should become known to the Contractor.

(b) Any claim for compensation or monetary damages, the successful prosecution of which necessarily depends upon a technical determination favorable to Contractor, may not proceed unless and until Contractor first obtains such a favorable determination with respect to the technical issue and must be made within ten (10) days of such determination; moreover, Contractor must submit to the Arbiter any documentation or proof in support of the monetary claim within fifteen (15) days of such determination in order to proceed with such a claim. This written notice shall constitute Contractor's submission to the Arbiter for the purposes of requesting the Arbiter's determination in accordance with Section 27.10 above.

(c) Compliance with the provisions hereof shall constitute a condition precedent to the Contractor's submission of a Dispute pursuant to Section 27.10 with respect to any claim for compensation or monetary damages and the Contractor shall be deemed to have waived any claim not submitted in accordance herewith.

(d) Any final determination of the Arbiter with respect to a Dispute initiated pursuant to this Article 27 shall be subject to review solely in the form of a challenge following the decision by the Arbiter in a Court of competent jurisdiction of the State of New York, County of New York, under Article 78 of the New York Civil Practice Law and Rules or a United States Court located in New York City under the procedures and laws applicable in that court, it being understood the review of such Court shall be limited to the question of whether or not the Arbiter's determination is arbitrary, capricious or lacks a rational basis. No evidence or information shall be introduced or relied upon in such proceeding which has not been duly presented to the Arbiter in accordance with this Article 27.

27.12 Limitation on Actions

(a) Subject to the provisions of Section 27.11, no action or proceeding shall lie or shall be maintained by Contractor against BPCA, Construction Manager, or Architect unless (i) such action or proceeding shall be commenced within six (6) months of the date of the issuance of the Certificate of Substantial Completion to Contractor; or (ii) in the case of an action or proceeding for monies due pursuant to Section 5.7 hereof, or arising exclusively from or pertaining exclusively to work performed after the date of issuance of the Certificate of Substantial Completion, unless such action or proceeding is commenced no later than six (6) months after the issuance of the certificate of final completion to Contractor; or (iii) if this Agreement is terminated by BPCA prior to the issuance of the Certificate of Substantial Completion, unless such action or proceeding is commenced within six (6) months after the date of such termination.

(b) Nothing in this Section 27.12 shall be construed to modify or lengthen a shorter limitations period provided by applicable law.

(c) No action or proceeding shall be commenced by Contractor against BPCA, Construction Manager, or Architect except in the Supreme Court of the State of New York, County of New York.

(d) Nothing in this Section 27.12 shall be construed to suggest that Contractor, under any circumstances, may bring an action or proceeding against Construction Manager, or Architect.

27.13 Waiver of Remedies

Contractor acknowledges that it can be compensated adequately by money damages for any breach of this Agreement which may be committed by BPCA, Construction Manager, or Architect. Contractor agrees that no default, act or omission of BPCA, Construction Manager, or Architect shall constitute a material breach of contract entitling Contractor to cancel or rescind this Agreement or to suspend or abandon performance thereof, other than the failure of BPCA to make a payment of the Contract Price in accordance with the terms hereof solely because sufficient funds to pay the Contract Price have not been appropriated or will otherwise not be made available to BPCA. Contractor hereby waives any and all rights and remedies to which Contractor might

otherwise be or become entitled to because of any wrongful act or omission of BPCA, Construction Manager, or Architect except as provided in this Section 27.13 and Contractor's right to money damages.

27.14 Modification of Agreement

No change in or modification, termination or discharge of this Agreement in any form whatsoever shall be valid or enforceable unless it is in writing and signed by the party to be charged therewith or its duly authorized representative, provided, however, that any change in or modification, termination or discharge of this Agreement expressly provided for in this Agreement shall be effective as so provided.

27.15 Signs and Parking

Contractor agrees that it shall not display on or about the Site any sign, trademark or other advertisement without the approval of BPCA and Construction Manager. Contractor shall not and shall not permit any of its Subcontractors or Materialmen to park any vehicles on the Site.

27.16 Entire Agreement

The Contract Documents constitute the entire Agreement between the parties and incorporate all prior understandings in connection with the subject matter hereof.

27.17 Rights and Remedies

The duties and obligations imposed by the Contract Documents and the rights and remedies available thereunder shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law. No action or failure to act by BPCA, Construction Manager, or Architect or Contractor including, but not limited to, the making of any payment or permitting Contractor to continue with the performance of the Work shall constitute a waiver of any right or duty afforded any of them under this Agreement, nor shall any such action or failure to act constitute an approval of or acquiescence in any breach thereunder, except as may be specifically agreed in writing.

27.18 Participation in International Boycott Prohibited

Contractor agrees, as a material condition of this Agreement, that neither Contractor nor any substantially owned or affiliated person, firm, partnership or corporation has participated or is participating or shall participate in an international boycott in violation of the provisions of the United States Export Administration Act of 1969, as amended, or the United States Export Administration Act of 1979, as amended, or the Regulations of the United States Department of Commerce promulgated thereunder. This Agreement shall be rendered forfeit and void by the Comptroller of the State of New York if, subsequent to execution, such person, firm, partnership or corporation has been convicted of a violation of the provisions of either of such federal acts or such Regulations or has been found upon the final determination of the United States Commerce Department or any other appropriate agency of the United States to have violated the provisions of either of such federal acts or such Regulations.

27.19 Compliance with “Buy-American” Statutes

Contractor and any substantially owned or affiliated person, firm, partnership or corporation agrees to comply with the New York Public Authorities Law, Section 2603-A as amended (affects steel or steel products).

27.20 Permitted Successors

References to parties and entities herein shall be deemed to include their permitted successors.

27.21 MacBride Fair Employment Principles

If the amount payable to Contractor under this Agreement is greater than \$15,000, Contractor hereby certifies that it and/or any individual or legal entity in which it holds a 10% or greater ownership interest, and any individual or legal entity that holds a 10% or greater ownership in it, either have no business operations in Northern Ireland; or shall take lawful steps in good faith to conduct any business operations they have in Northern Ireland in accordance with the MacBride Fair Employment Principles relating to nondiscrimination in employment and freedom of workplace opportunity regarding such operations in Northern Ireland, as set forth in New York State Finance Law Article XI Section 165(5), and shall permit independent monitoring of their compliance with such Principles.

27.22 Iran Divestment Act

By signing this Agreement, each person and each person signing on behalf of any other party certifies, and in the case of a joint bid or partnership each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each person is not on the list created pursuant to paragraph (b) of subdivision 3 of Section 165-a of the State Finance Law.

27.23 Termination for Failure to Disclose Under State Finance Law §139k

BPCA reserves the right to terminate this Agreement in the event it is found that the certification filed by Contractor pursuant to New York State Finance Law §139-k was intentionally false or intentionally incomplete. Upon such finding, BPCA may exercise its termination right by providing written notification to the Contractor in accordance with the written notification terms of this contract. If a contract is terminated in accordance with State Finance Law §139k(5), BPCA, its subsidiaries and affiliates, will include a statement in BPCA’s procurement record describing the basis for any action taken under the termination provision.

27.24 Labor Peace

The Contractor and its Subcontractors and Materialmen shall not employ on the Work any labor, materials or means whose employment, or utilization during the course of this Agreement, may tend to or in any way cause or result in strikes, Work stoppages, delays, suspension of Work or similar troubles by workers employed by the Contractor or its Subcontractors, Materialmen, or by any of the trades working in or about the buildings and premises where Work is being performed

under this Agreement, or by other contractors or their subcontractors pursuant to other agreements, or on any other building or premises owned or operated by BPCA, its contractors or affiliates. Any violation by the Contractor of this requirement may be considered as proper and sufficient cause for declaring the Contractor to be in default, and for BPCA to take action against Contractor as set forth in Article 15 of this Agreement, or such other Section of this Agreement as BPCA may deem proper.

27.25 Comptroller's Approval

If this Agreement is considered an "eligible contract," as defined by New York Code, Rules and Regulations Title 2 Part 206.2, it is subject to the New York State Comptroller's approval, and therefore shall not be valid and enforceable until that approval has been obtained. A contract is considered an "eligible contract," as defined by Title 2 of NYCRR Part 206.2, if it is not a specifically exempt contract, is executed by a state authority on or after March 1, 2010, the aggregate consideration under the contract may reasonably be valued in excess of one million dollars (including all reasonably anticipated renewals and amendments), AND the contract (A) was or shall be awarded on a single-source basis, sole-source basis or pursuant to any other method of procurement that is not a competitive procurement OR (B) shall be paid in whole or in part with monies appropriated by the State, either directly to a state authority or to a state agency that pays the money to a state authority.

27.26 Key Person/Personnel

The parties understand that in entering into this Agreement, BPCA has relied upon Contractor's representation that [name(s) and title(s)] (hereinafter the "**Key Personnel**") will be directly and consistently involved in supervising the Work and actively engaged in the day-to-day management of the Work, which shall include attending mandatory Project meetings. If the Key Personnel is/are not available as described herein, or if the Key Personnel depart from the firm or severs his/her/their relationship with the Contractor, or for whatever other reason is/are not available to work on the Project, then BPCA shall have the right to terminate this Agreement. The parties also agree that at any time during the course of the Work, BPCA may designate additional or substitute key personnel to perform the Work. Contractor agrees to make the additional or substituted key personnel available under the same conditions set forth herein.

27.27 Form of Agreement Not an Offer

Notwithstanding anything herein to the contrary, the submission of this form of Agreement by BPCA to Contractor shall not constitute an offer, and execution hereof by Contractor shall not be considered acceptance of an offer. A binding contract between the parties shall exist only if and at such time as both parties have executed this Agreement.

27.28 General Responsibility

(a) The Contractor shall at all times during the Agreement term remain responsible. The Contractor agrees, if requested by BPCA or its designee, to present evidence of Contractor's continuing legal authority to do business in New York State, integrity, experience, ability, prior performance, and organizational and financial capacity.

(b) BPCA or its designee, in its sole discretion, reserves the right to suspend any or all activities under this Agreement, at any time, when BPCA discovers information that calls into question the responsibility of Contractor. In the event of such suspension, Contractor will be given written notice outlining the particulars of such suspension. Upon issuance of such notice, Contractor must comply with the terms of the suspension order. Activity under the Agreement may resume at such time as BPCA or its designee issues a written notice authorizing a resumption of performance under the Agreement.

(c) Upon written notice to the Contractor, and a reasonable opportunity to be heard with appropriate BPCA officials or staff, the Agreement may be terminated by BPCA or its designee at Contractor's expense where Contractor is determined by BPCA or its designee to be nonresponsible. In such event, BPCA or its designee may complete the contractual requirements in any manner BPCA may deem advisable and pursue available legal or equitable remedies for breach.

27.29. Counterparts

This Agreement may be executed in any number of counterparts, all of which taken together shall constitute one instrument, but the Agreement shall not be deemed effective unless signed by all parties.

27.30. Section Headings

Section headings contained in this Agreement are for convenience only and shall not be considered for any purpose in governing, limiting, modifying, construing or affecting the provisions of this Agreement and shall not otherwise be given legal effect.

27.31. Subordination of Terms in the Exhibits

In the event of a conflict of terms, the terms stated in Sections 1-27 herein, shall take precedence over and shall prevail over any printed, typed, or handwritten terms located in the Exhibits.

SIGNATURE PAGE FOLLOWS

IN WITNESS WHEREOF, the parties hereto have executed this Agreement, as of the date first above written.

BATTERY PARK CITY AUTHORITY, d/b/a

HUGH L. CAREY BATTERY PARK CITY AUTHORITY

By: _____

Name: _____

Title: _____

[CONTRACTOR NAME]

By: _____

Name: _____

Title: _____

FEIN #

EXHIBIT D

(Acknowledgement of Addenda)

RFP TITLE: _____

Complete Part I <u>or</u> Part II, whichever is applicable, and sign your name in Part III.
--

Part I

Listed below are the dates of issue for each Addendum received in connection with this RFP:

Addendum # 1, Dated _____, ____

Addendum # 2, Dated _____, ____

Addendum # 3, Dated _____, ____

Addendum # 4, Dated _____, ____

Addendum # 5, Dated _____, ____

Addendum # 6, Dated _____, ____

Part II Acknowledgement of No Receipt

_____ No Addendum was received in connection with this RFP

Part III

Proposer's Name: _____

Proposer's Authorized Representative:

Name: _____

Title: _____

Signature: _____

Date: _____

EXHIBIT E

List of BPCA & BPCPC Board Members and Employees

(Attached)

LIST OF BOARD MEMBERS

George J. Tsunis

Donald Cappocia

Lester Petracca

Louis J. Bevilacqua

Catherine McVay Hughes

Martha Gallo

Anthony Kendall

Debbie Addison
Curtis Afzal
Elsa Alvarez
Dana Anders
Anthony Andriano
Stephen Arciold
Sharmila Baichu
Marie Baptiste
Brett Beecham
Freddy Belliard
Emily Birdseye
Nidia Blake-Reeder
LaToya Brooks-Jones
Nancy Buivid
Anthony Buquicchio
Peter Campbell
Frances Caperchi
Monica Centeno
Carlton Chotalal
Julissa Cooke
Gwen Dawson
Gilbert DePadua
Paul Diaz-Larui
Tonasia Dopson
Patricia Ehlers
Abigail Ehrlich
Maria Ellison
Richard Faraino
Anitra Fauntleroy
Pamela Frederick
James Gallagher
Joseph Ganci
Abigail Goldenberg
Anastasia Gonzalez
Lenron Goode
Neresa Gordon
Sakina Graves
Ned Greenberg
Evelyn Gregg
Jonathan Gross
Robert Hansen
Nimisha Haribaran
Nicole Heater
Sankar Heerah
Stephanie Huayta

Craig Hudon
Amy Jogie
William John
Jasmine Johnson
Benjamin Jones
Roland Kemp
Ann Ketring
Susie Kim
Karl Koenig
Betzyda Laboy
Leandro Lafuente
Michael Lamancusa
Della Lee
Darnell Leslie
Rene Lopcy
Janira Lopez
Robert Maggi
Evelin Maisonet
Jonathan McCain
Princess McNeill
Vanessa Mesine
Ronnie Mohammed
Dana Morgera
Lauren Murtha
Eric Munson
Bertha Narcisse
Robert Nesmith
Siu May NG
Yoshihiro Nishida
Anne O'Neill
Maril Ortiz
Bienvenido Osorio
Kevin O'Toole
Hector Oyola
Willem Paillant
Jonathan Parker
Gladys Pearlman
Dahlia Pena
Anthony Peterson
Bruno Pomponio
Katherine Powell
Sandra Power
Robert Quon
Jason Rachnowitz
Madelin Ramirez

Manual Rivera
Anthony Robinson
Nelson Rogers
Jose Rosado
Holly Ross
DeCorey Rowe
Carlos Santiago
Nicholas Sbordone
Jean Schwartz
Lindsey Senn
Rekha Sewraj
Sean Simon
Kemnarine Singh
Timothy Skipper
Sarah Smedley
Bruce Spierer
Nicole Stallworth-Roper
Shinay Stewart
Jerome Sturiano
Lance Super
John Tam
Alexis Torres
Ryan Torres
Douglas Van Horn
Noe Velasquez
Evangelio Villalobos
Jeffrey Vixamar
Sharon Wade
David Wallace
Eric White
Angela Whitehead
Dwight Williams
Kenneth Windman
Al Wright
Jouli Yohannes

EXHIBIT F

(Form of Cost Proposal)

COST PROPOSAL

(Proposer to submit executed Cost Proposal on its letterhead)

Date:

Battery Park City Authority
200 Liberty Street, 24th Floor
New York, New York 10281

Attention: Mr. Michael LaMancusa
Contract Administrator

Dear Mr. LaMancusa:

The undersigned (the "Proposer") hereby proposes to perform the work set forth in Exhibit A - Scope of Work (the "Work") attached to the Request for Proposal for **Rockefeller Park Playground Restoration Contractor Services** (the "RFP"). The Proposer agrees to commence the Work immediately upon execution of the Contract in accordance with the terms stipulated in this Exhibit F, for the lump sum amount written below.

A. Base Proposal

A total lump sum amount of \$_____ (_____ Dollars and _____ Cents) to perform the Work.

B. Bid Breakdown, Unit Prices and Labor Rates

1. The Proposer has submitted with its Cost Proposal an itemized cost for the Work, according to the Bid Breakdown attached as Exhibit G. The total sum of these items will be equivalent to the Base Proposal.
2. Enclosed with its Cost Proposal, Proposer has submitted a completed Form of Unit Pricing attached as Exhibit H.
3. Enclosed with its Cost Proposal, Proposer has submitted a completed Form of Labor Rates attached as Exhibit I, showing labor rates for all trades, including all costs except overhead and profit. Prices shown include base hourly rates, overtime rates, insurance and benefits.

Name of Proposer:

By: _____

Title: _____

EXHIBIT G

Bid Breakdown

The undersigned, having inspected the Project Site and familiarized himself with all conditions likely to be encountered affecting the cost and schedule, hereby proposes to furnish all labor, materials, equipment, and services required to complete the Work for a single lump sum.

In the interest of uniformity and fairness when evaluating and comparing bids, we urge you to use the following list when submitting your bid breakdown

BASE BID.....	==	
Mobilization including site fencing, survey, and work zone safety devices.....	\$	
Remove and dispose of existing safety surface.....	\$	
Remove and dispose of existing asphalt/concrete underlayment.....	\$	
Remove and dispose of all timbers, posts, and lumber components.....	\$	
Remove/refurbish/restore/paint/store all metal components.....	\$	
Furnish and install crushed stone base.....	\$	
Furnish and install asphalt / concrete underlayment.....	\$	
Furnish and install poured in place bound safety surface.....	\$	
Manufacture and install all replacement timbers and wood elements..	\$	
Reinstall all refurbished, repainted, and restored metal components...	\$	
Repair spalling and/or cracks on existing pre-cast concrete tables/seats..	\$	
Replace existing sandbox/playground sand.....	\$	
Repaint existing 4'-0" ht. steel picket fence with gates and handrail in place...	\$	
Repoint joints and/or sealant at existing granite walls and seats in Gargoyle spray pool area...	\$	
Remove/store and reinstall benches, picnic tables, and other site furnishings in affected area...	\$	
Replace existing drinking fountains with new trough type drinking fountains...	\$	
Close out.....	\$	

EXHIBIT H

Form of Unit Pricing

Not to be included in the Base Cost Proposal Total Amount

Replace existing galvanized steel sleeves with base plates as directed by engineer.....	cost per unit.....\$	each
Drill and grout anchor bolts 18" deep for grout as directed by engineer.....	cost per unit..... \$	each
Clean existing drainage line (270 linear feet) as directed by engineer.....	\$	lump sum
Cast in place concrete.....	cost per cubic yard \$	cu yd

EXHIBIT I

Form of Labor Rates

Project Manager - per hour	\$ _____	O/T \$ _____
Superintendent - per hour	\$ _____	O/T \$ _____
Mason - per hour	\$ _____	O/T \$ _____
Welder - per hour	\$ _____	O/T \$ _____
Carpenter - per hour	\$ _____	O/T \$ _____
Laborer - per hour	\$ _____	O/T \$ _____
Plumber - per hour	\$ _____	O/T \$ _____
Painter – per hour	\$ _____	O/T \$ _____

EXHIBIT J

Drawings & Specifications

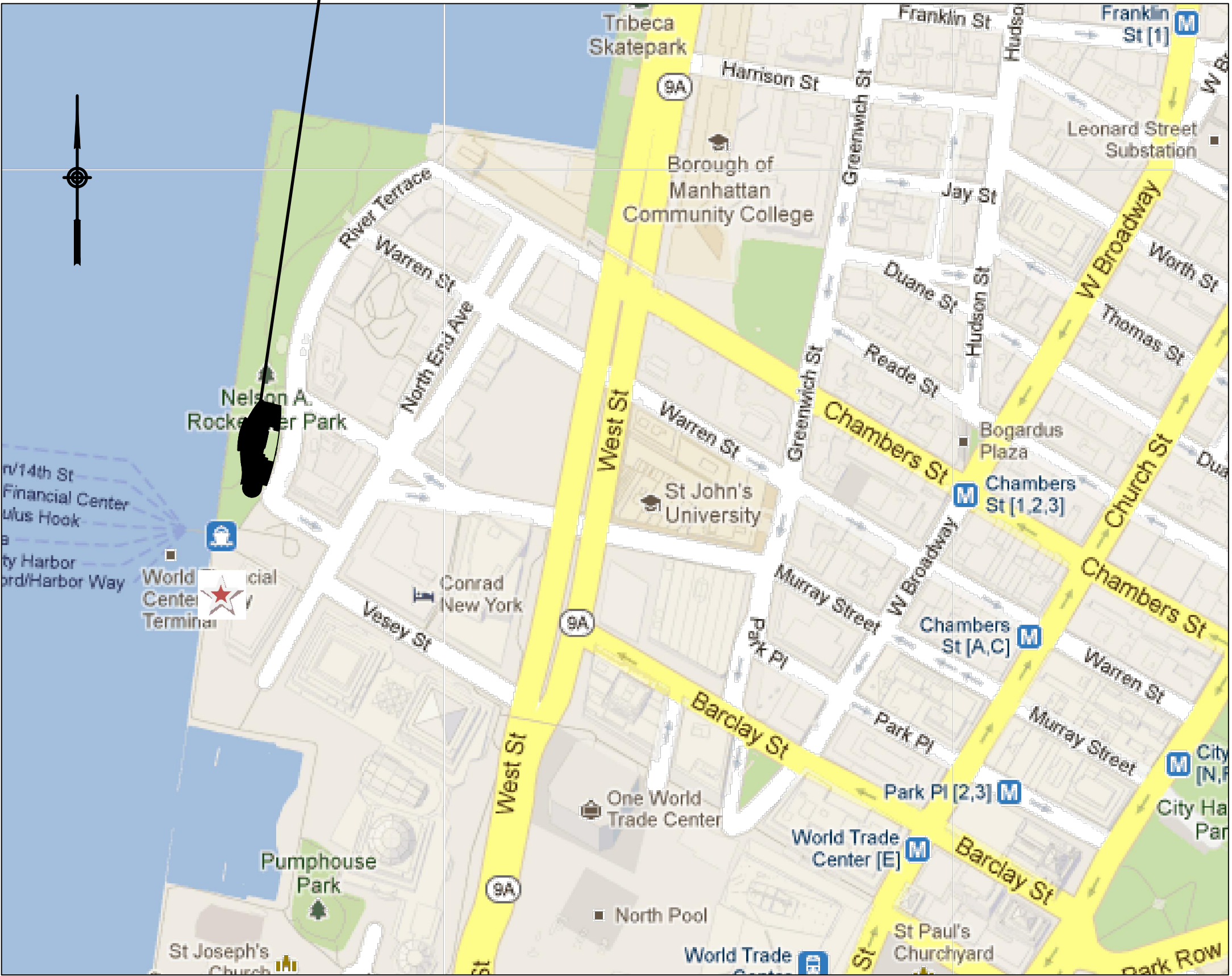
BATTERY PARK CITY AUTHORITY

ROCKEFELLER PARK TERRACE

PLAYGROUND RECONSTRUCTION

CITY OF NEW YORK, BOROUGH OF
MANHATTAN

PROJECT SITE



LOCATION MAP
N.T.S.



SHEET NO.	DESCRIPTION	DRAWING NO.
1	COVER SHEET	C-1
2	ESTIMATE OF QUANTITIES AND SCOPE OF WORK	C-2
3	LEGENDS AND ABBREVIATIONS	C-3
4	GENERAL NOTES	C-4
5	PLAYGROUND EQUIPMENT PLAN	C-5
6	SURFACE AREA TYPES AND DRAIN PLAN	C-6
7	REMOVALS/RECONSTRUCTION OF SPRAY POOL	C-7
8	REMOVALS/RECONSTRUCTION FRAMING, FOOTING AND SWING DETAILS	C-8
9	REMOVALS/RECONSTRUCTION AREA II-A DETAILS	C-9
10	REMOVALS/RECONSTRUCTION AREA II-B DETAILS	C-10
11	REMOVALS/RECONSTRUCTION AREA II-C SUSPENSION BRIDGE DETAILS	C-11
12	REMOVALS/RECONSTRUCTION AREA III-B, III-C DETAILS	C-12
13	REMOVALS/RECONSTRUCTION AREA III-D DETAILS	C-13
14	REMOVALS/RECONSTRUCTION AREA III-D, III-E DETAILS	C-14
15	REMOVALS/RECONSTRUCTION AREA III-E, III-F DETAILS	C-15
16	REMOVALS/RECONSTRUCTION AREA III-A DETAILS	C-16
17	REMOVALS/RECONSTRUCTION AREA II-B DETAILS	C-17
18	REMOVALS/RECONSTRUCTION AREA NORTHPARK PLAYGROUND - I	C-18
19	REMOVALS/RECONSTRUCTION AREA NORTHPARK PLAYGROUND - II	C-19
20	REMOVALS/RECONSTRUCTION OF EXISTING WATER PLAY DETAILS	C-20
21	EXISTING SECTIONS AND DETAILS	C-21
22	RECONSTRUCTION DETAILS	C-22
23	TYPICAL REPAIR DETAILS	C-23

BID BREAKDOWN

ITEM NUMBER	ITEM DESCRIPTION	TOTAL PER ITEM
01	MOBILIZATION	
02	WORK ZONE SAFETY CONTROL	
03	DRAIN PIPES, CATCH BASINS AND MANHOLES CLEANOUT AND VIDEO INVESTIGATION	
04	PRE-CONSTRUCTION INVENTORY	
05	TOPOGRAPHIC SURVEY OPERATIONS	
06	REMOVE AND DISPOSE EXISTING SAFETY SURFACE, PLAYGROUND TYPE	
07	REMOVE AND DISPOSE EXISTING ASPHALT/CONCRETE UNDERLAYMENT AND BASE MATERIAL.	
08	REMOVE AND DISPOSE EXISTING ALASKAN CEDAR LAMINATED TURNED ROUND TIMBER POSTS.	
09	REMOVE AND DISPOSE ALL EXISTING ALASKAN CEDAR LAMINATED TIMBER AND ALL PLAYGROUND WOOD ELEMENTS.	
10	REMOVE/REFURBISH/STORE ALL EXISTING STEEL AND OTHER PLAYGROUND ELEMENTS.	
11	STABILIZED SOIL - AGGREGATE SUBBASE.	
12	ASPHALT CONCRETE UNDERLAYMENT	
13	NON-POROUS POURED-IN-PLACE PLAYGROUND SAFETY SURFACE.	
14	ALL PLAYGROUND STEEL ELEMENTS PAINTING	
15	FURNISH AND INSTALL NEW TO REPLACE EXISTING ALASKAN CEDAR LAMINATED TURNED ROUND TIMBER POSTS, REPLACE WITH NON-LAMINATED EQUIVALENT POSTS.	
16	FURNISH AND INSTALL NEW TO REPLACE EXISTING ALASKAN CEDAR LAMINATED TIMBER AND WOOD ELEMENTS, REPLACE WITH NON-LAMINATED EQUIVALENT ELEMENTS.	
17	REINSTALL EXISTING STEEL AND OTHER PLAYGROUND ELEMENTS.	
18	REPAIR SPALLING AND/OR CRACKS ON EXISTING PRE-CAST CONCRETE TABLE/SEATS	
19	REPLACE EXISTING SANDBOX/PLAYGROUND SAND, COARSE FINE SAND WASHED AND SCREENED.	
20	REPAINT EXISTING 4'-0" HT. STEEL PICKET FENCE WITH GATES AND HANDRAILS IN PLACE.	
21	REPOINT JOINTS AND/OR SEALANT AT EXISTING GRANITE WALLS AND SEATS IN THE GARGOYLE SPRAY POOL AREA	
22	REMOVE/STORE AND REINSTALL BENCHES, PICNIC TABLES, AND OTHER SITE FURNISHINGS IN THE AREA AFFECTED BY CONSTRUCTION.	
23	REPLACE EXISTING DRINKING FOUNTAIN WITH NEW TROUGH-TYPE DRINKING FOUNTAIN.	
24	CLOSE-OUT	

CONTRACTOR'S PRICE BID FOR LUMP SUM ITEMS SHALL INCLUDE ALL COSTS ASSOCIATED WITH THE WORK, WITHOUT ANY ADDITIONAL COSTS TO THE BPCA.

LABOR RATES

TIME AND MATERIALS PRICES FOR ADDITIONAL WORK ONLY.

A	LABOR	UNIT	PRICE PER UNIT
1	LABORER FOREMAN	PER HR.	
2	LABORER	PER HR.	
3	OPERATING ENGINEER	PER HR.	
4	CARPENTER	PER HR.	
5	TEAMSTER	PER HR.	
	EQUIPMENT	UNIT	PRICE PER UNIT
1	UTILITY/COMPRESSOR TRUCK WITH SMALL TOOLS INCLUDING OPERATING COST	PER DAY	
2	EXCAVATOR CAT 450 INCLUDING OPERATING COST	PER DAY	
3	DUMP TRUCK	PER DAY	
4	JUMPING JACK	PER DAY	
5	PICKUP TRUCK	PER DAY	

ANY MATERIALS CONSUMED IN RELATION TO THE EXTRA WORK WILL BE REIMBURSED UPON INSTALLATION/USE AT THE COST SHOWN ON ACTUAL INVOICES WITH A 10% OVERHEAD PLUS 5% PROFIT ALLOWANCE. EXTRA WORK COSTS SHALL INCLUDE INSURANCE AND BOND COSTS.

GENERAL:

WORK REQUIRED:

THE CONTRACTOR SHALL NOT COMMENCE ANY WORK UNDER THE CONTRACT PRIOR TO A PRE-CONSTRUCTION CONFERENCE AMONG THE CONTRACTOR, THE BPCA REPRESENTATIVES AND OTHER CONCERNED GOVERNMENTAL AND UTILITY COMPANY REPRESENTATIVES. SITE ACCESS WILL BE DISCUSSED.

CHANGES, CONTINGENCIES, EXTRA WORK AND DEDUCTIONS:

BP&A RESERVES THE RIGHT, AT ANY TIME DURING THE PROGRESS OF THE WORK, TO ALTER THE PLANS OR OMIT ANY PORTION OF THE WORK AS IT MAY DEEM REASONABLY NECESSARY FOR THE PUBLIC INTEREST, MAKING ALLOWANCE FOR ADDITIONS AND DEDUCTIONS AT THE PRICES NAMED IN THE PROPOSAL FOR THE WORK, WITHOUT CONSTITUTING GROUNDS FOR CLAIM BY THE CONTRACTOR FOR DAMAGES OR FOR LOSS OF ANTICIPATED PROFITS.

SITE HOUSEKEEPING:

DURING PROGRESSION OF WORK, THE CONTRACTOR SHALL, AT ALL TIMES, KEEP THE SITE AND ADJACENT PREMISES FREE FROM MATERIALS, DEBRIS AND RUBBISH AND SHALL REMOVE THE AFOREMENTIONED FROM ANY PORTION OF THE SITE.

THE CONTRACTOR SHALL REMOVE FROM THE SITE ALL OF HIS SURPLUS MATERIALS AND TEMPORARY STRUCTURES WHEN NO FURTHER NEED THEREOF DEVELOPS AND SHALL RESTORE THE SITE TO A NEAT ORDERLY CONDITION.

AT THE CONCLUSION OF THE WORK, ALL ERECTION PLANT, TOOLS, TEMPORARY STRUCTURES, AND MATERIALS BELONGING TO THE CONTRACTOR SHALL BE PROMPTLY TAKEN AWAY, AND HE SHALL REMOVE AND PROMPTLY DISPOSE OF ALL WATER, DIRT, RUBBISH OR ANY OTHER FOREIGN SUBSTANCES.

AFTER COMPLETION OF ALL OTHER WORK UNDER THE CONTRACT, THE CONTRACTOR SHALL CLEAN AND REMOVE FROM ALL CATCH BASINS AND MANHOLES, WITHIN THE LIMITS OF THE CONTRACT, ALL MATERIALS AND DEBRIS DEPOSITED THEREIN AS THE DIRECT RESULT OF HIS OPERATIONS. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.

ALLOWANCE ITEMS

ITEMS WILL BE ADDRESSED AS DIRECTED BY THE ENGINEER ON AN AS-NEEDED BASIS UP TO THE AMOUNT SHOWN.

ITEM NUMBER	ITEM DESCRIPTION	AMOUNT
A1	DRAINAGE MODIFICATIONS INCLUDING PIPE AND/OR DRAINAGE STRUCTURE REPAIRS AND/OR REPLACEMENT	\$50,000.00

UNIT PRICE ITEMS

CONTRACTOR TO PROVIDE UNIT PRICES FOR THE FOLLOWING ITEMS. ITEMS WILL BE ADDED TO THE CONTRACT (AOBE) - AS ORDERED BY ENGINEER, IF REQUIRED.

ITEM NUMBER	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	PRICE PER UNIT	TOTAL PER ITEM
UP1	REPLACE EXISTING GALVANIZED STEEL SLEEVE AND BASE PLATE ASSEMBLY FOR WOOD POSTS.	EACH	140		
UP2	REPLACE ANCHOR BOLT FOR EXISTING STEEL SLEEVE ASSEMBLY	EACH	100		
UP3	CAST-IN-PLACE CONCRETE	CUBIC YARD	10		
UP4	ADDITIONAL BASE MATERIAL REMOVAL	CUBIC YARD	NA		

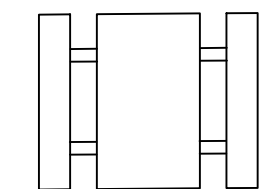
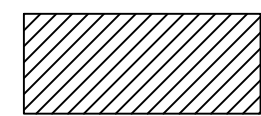
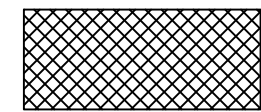
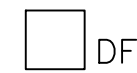
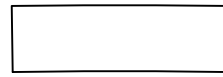
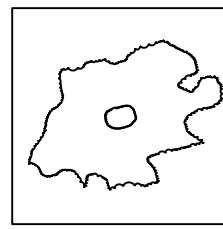
QUANTITIES INDICATED ABOVE ARE ESTIMATED BASED ON THE BEST INFORMATION KNOWN DURING THE PREPARATION OF THE CONTRACT DOCUMENTS, AND SHALL NOT BE CONSTRUED AS FINAL QUANTITIES FOR THE WORK.

SCOPE OF WORK

1. ATTEND PRE-CONSTRUCTION MEETING
2. MOBILIZE TO THE SITE
3. PERFORM CLEANOUT AND VIDEO INVESTIGATION OF THE EXISTING DRAINAGE SYSTEM. CLEANOUT METHOD SHOULD BE WATERJET OR ENGINEER APPROVED ALTERNATIVE. AFTER CLEANOUT, DRAIN PIPES SHALL BE OBSERVED THROUGH VIDEO. ALL DAMAGES AND/OR ABNORMALITIES SHALL BE REPORTED TO THE ENGINEER.
4. COMMENCE DETAILED PRE-CONSTRUCTION SURVEY OF THE SITE WITH ALL EXISTING PLAYGROUND EQUIPMENT AND FURNISHINGS, INCLUDING DOCUMENTING THE DIMENSIONS OF ALL POSTS AND OTHER TIMBER MEMBERS BEING REPLACED, ALL STEEL PLAYGROUND COMPONENTS AND MESH PANELS BEING REFURBISHED AND PAINTED, ALL PLASTIC AND NYLON PLAYGROUND ELEMENTS BEING REPLACED AND/OR REINSTALLED, VARIOUS HARDWARE, STEEL PICKET FENCES AND UTILITY SERVICES. IDENTIFICATION TAGS REFERENCE PLAN AND ELEVATION DRAWINGS SHALL BE PLACED ON ALL ITEMS BEING REMOVED AND REPAIRED TO IDENTIFY THE LOCATION FOR REINSTALLATION OF ITEMS. A DETAILED PHOTO SURVEY SHALL BE COMPLETED AS A PART OF THE PRE-CONSTRUCTION SURVEY.
5. INSTALL TEMPORARY 6' TALL BARRIER FENCE AT PERIMETER OF SITE, AND TYPE III CONSTRUCTION BARRICADES AND/OR OTHER DEVICES WHERE NECESSARY FOR WORK ZONE SAFETY CONTROL.
6. INSTALL TEMPORARY SILT FENCE AND FABRIC COVERS FOR ALL EXISTING DRAIN INLETS WITHIN SITE TO PROTECT EXISTING DRAINAGE SYSTEM.
7. REMOVE AND STORE EXISTING BENCHES, PICNIC TABLES, AND OTHER FURNISHINGS AFFECTED BY CONSTRUCTION.
8. SAWCUT EXISTING PLAYGROUND SAFETY SURFACE AND UNDERLAYMENT FULL DEPTH TO SEPARATE GARGOYLE SPRAY POOL AND BABIES WATER PLAY AREAS FROM AREAS THAT WILL RECEIVE NEW SAFETY SURFACE AND NEW UNDERLAYMENT.
9. REMOVE AND DISPOSE OF EXISTING SAFETY SURFACE WHERE INDICATED.
10. REMOVE AND DISPOSE EXISTING PAVEMENT UNDERLAYMENT AND BASE MATERIAL IN PLAYGROUND AREA, UP TO 8.00 INCHES THICK, EXCEPT AT GARGOYLE AND BABIES WATER PLAY AREAS.
11. REMOVE AND DISPOSE OF EXISTING SANDBOX/PLAYGROUND SAND WHERE INDICATED.
12. REMOVE, REFURBISH, REPAIR, AND STORE ALL EXISTING STEEL AND OTHER PLAYGROUND ELEMENTS TO BE REPAINTED AND REINSTALLED. REPAIRS AND PAINTING OF STEEL SHALL BE PERFORMED AT THE CONTRACTORS' SHOP. CONTRACTOR SHOULD INFORM ENGINEER OF SHOP LOCATION AND DATES OF ACTIVITIES TO ASSIGN PROPER IN SHOP INSPECTION.
13. REMOVE AND DISPOSE 4.5", 6" OR 8" DIA. AND 8" X 8" EXISTING ALASKAN CEDAR LAMINATED TURNED ROUND TIMBER POSTS AT ALL PLAY EQUIPMENT, PERGOLAS AND CAROUSEL GAZEBO AREAS.
14. REMOVE AND DISPOSE ALL EXISTING ALASKAN CEDAR LAMINATED OR SOLID WOOD ELEMENTS INCLUDING, BUT NOT LIMITED TO, BEAMS, DECKING, STEPS, FILLER PANELS, PERGOLAS AND CAROUSEL GAZEBO.
15. REPLACE STEEL SLEEVES AND/OR SLEEVE ANCHOR BOLTS, AS ORDERED BY ENGINEER, IF NECESSARY.
16. REPLACE THE EXISTING DRINKING FOUNTAINS WITH NEW DRAIN-FREE TROUGH TYPE. CONNECT TO EXISTING WATER LINES AT EACH LOCATION.
17. FURNISH AND INSTALL 4.5", 6" OR 8" DIA. AND 8" X 8" SQUARE ALASKAN CEDAR TURNED ROUND TIMBER POSTS AT ALL PLAYGROUND EQUIPMENT, PERGOLAS AND CAROUSEL GAZEBO AREAS. MATCH EXISTING POST SIZES AND SHAPES.
18. REPAIR EXISTING PRE-CAST CONCRETE TABLES/SEATS IN-PLACE.
19. PLACE STABILIZED SOIL-AGGREGATE SUBBASE 4" THICK AS PART OF THE UNDERLAYMENT FOR POURED-IN-PLACE PLAYGROUND SAFETY SURFACE.
20. INSTALL NEW ASPHALT PAVEMENT UNDERLAYMENT 3" THICK FOR POURED-IN-PLACE SAFETY SURFACE.
21. INSTALL NEW POURED-IN-PLACE SAFETY SURFACE, PLAYGROUND TYPE.
22. REPAINT ALL PLAYGROUND STEEL ELEMENTS AFTER REPAIRS ARE APPROVED. MATCH EXISTING COLORS OR AS ORDERED BY ENGINEER.
23. REINSTALL PREVIOUSLY REMOVED, REFURBISHED, REPAIRED, AND REPAINTED EXISTING STEEL AND OTHER ELEMENTS, INCLUDING ALL NEW HARDWARE AND SUSPENSION ELEMENTS.
24. FURNISH AND INSTALL NEW ALASKAN CEDAR SOLID WOOD ELEMENTS INCLUDING, BUT NOT LIMITED TO, BEAMS, DECKING, STEPS, FILLER PANELS, PERGOLAS AND CAROUSEL GAZEBO AREAS.
25. REPAINT EXISTING 4'0" HIGH STEEL PICKET FENCE AND GATES SURROUNDING THE PLAYGROUND.
26. RE-POINT EXISTING GRANITE WALLS AND SEAT WALLS AT THE GARGOYLE WATER PLAY AREA.
27. INSTALL NEW SANDBOX/PLAYGROUND SAND - UP TO 12" THICK AS INDICATED ON CONTRACT DRAWINGS.
28. REINSTALL EXISTING BENCHES, AND OTHER FURNISHINGS AFFECTED BY CONSTRUCTION.
29. REMOVE ALL TEMPORARY SAFETY AND SECURITY DEVICES.
30. DEMOBILIZE.

[illegible]

LEGEND



ABBREVIATIONS

AOBE AS ORDERED BY ENGINEER

SS SAFETY SURFACE

[illegible]

GENERAL NOTES

1. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT, DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF RECONSTRUCTION WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS & HIS OWN INVESTIGATION/INSPECTION.
2. THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF BPCA WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF BPCA, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR. EXISTING GRANITE CURBS TO REMAIN SHALL BE PROTECTED. IF GRANITE CURB REQUIRE REMOVAL TO PERFORM ADJACENT POST REPLACEMENTS, THEY SHALL BE REMOVED, STORED, AND RESET-IN-PLACE AT NO ADDITIONAL COST TO BPCA.
3. WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THE DISPOSAL AREA SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THOSE ITEMS.
4. ACCESS TO THE SITE MAY INVOLVE REMOVAL AND REINSTALLATION OF GUIDERAILING, FENCING AND REMOVAL OF MISCELLANEOUS MATERIALS, PLANTS OR MINOR STRUCTURES AS DEEMED NECESSARY BY THE CONTRACTOR. THE BIDDER IS RESPONSIBLE FOR DETERMINING THE EXTENT OF WORK REQUIRED TO ACCESS THE SITE AND MUST PREPARE HIS/HER BID ACCORDINGLY.
5. THE CONTRACTOR SHALL REPAIR AND RESTORE TO ORIGINAL CONDITION ANY DAMAGE BEYOND THE WORK LIMITS CAUSED BY HIS/HER OPERATION AT NO COST TO THE BPCA.
6. THE ENGINEER IN CHARGE (E.I.C.) MAY INCREASE OR DECREASE THE LIMIT OF WORK AS DEEMED NECESSARY.
7. APPROXIMATE LOCATION OF RIGHT-OF-WAY, PROPERTY LINES, AND EASEMENTS ARE SHOWN ON THE PLANS BASED ON AVAILABLE INFORMATION.
8. ALL RIGHT-OF-WAY MONUMENTS AND PROPERTY CORNERS ARE TO BE SAFEGUARDED AND PRESERVED. PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL LOCATE AND SUBMIT A CONDITION INVENTORY OF ALL MONUMENTS AND SURVEY CONTROL WITHIN THE PROJECT LIMITS. ALL RIGHT-OF-WAY MONUMENTS OR PROPERTY CORNERS THAT ARE DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION ARE TO BE REPLACED BY A N.Y.S. LICENSED SURVEYOR AT THE CONTRACTOR'S EXPENSE.
9. ANY ADDITIONAL TREE REMOVALS BEYOND THOSE LISTED IN THE PLANS MUST BE APPROVED BY THE E.I.C. PRIOR TO REMOVAL. THE CONTRACTOR IS TO PROVIDE PROTECTION FOR ALL OF THE EXISTING TREES WITHIN THE PROJECT LIMITS THROUGHOUT THE COURSE OF THE PROJECT, TO MINIMIZE AS MUCH AS POSSIBLE ANY DAMAGE OCCURRING TO THE TREES AS A RESULT OF CONSTRUCTION ACTIVITIES. PROTECTION IS TO BE IN PLACE BEFORE ANY WORK IS STARTED.
10. THE CONTRACTOR SHALL PRUNE BRANCHES ON EXISTING TREES, TO PROVIDE VERTICAL AND HORIZONTAL CLEARANCE ALONG THE PROPOSED SIDEWALK UNDER THE DIRECTION OF BPCA OR AN AUTHORIZED REPRESENTATIVE. THE MINIMUM CLEARANCE PROVIDED SHALL BE EIGHT (8) FEET ABOVE PROPOSED GRADE AND FOUR (4) FEET FROM CENTERLINE OF SIDEWALK. NO ADDITIONAL PRUNING SHALL BE DONE BEYOND THOSE NECESSARY TO PROVIDE THE CLEARANCES LISTED. COST SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 06.
11. THE CONTRACTOR SHALL ABIDE BY ALL CONDITIONS OF THE NYSDEC AND NYC PERMITS.
12. ALL ROADWAY SURFACES ARE TO BE KEPT CLEAN OF MUD AND DEBRIS AT ALL TIMES.
13. PERMITS PULLED BY THE CONTRACTOR FOR CONTAINER PLACEMENT OF MACHINERY SUCH AS DUMPSTER, CONCRETE TRUCK AND PUMP WILL BE INCLUDED WITH STIPULATIONS. [WORK ZONE TRAFFIC CONTROL (WZTC) WOULD BE REQUIRED OF THE CONTRACTOR IF CONSTRUCTION ACTIVITIES IMPACT TRAFFIC, BOTH VEHICULAR & PEDESTRIAN & SHALL FOLLOW THE 2009 MUTCD].

UTILITY NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL UTILITY WORK. ALL COSTS FOR UTILITY COORDINATION SHALL BE INCLUDED IN ITEM 01.
2. EXISTING UTILITIES (LOCATIONS, SIZES AND INVERTS) SHOWN ON THE PLANS HAVE BEEN PLOTTED FROM FIELD SURVEYS AND RECORD MAPS AND ARE NOT CERTIFIED AS TO THE ACCURACY OF THEIR LOCATION OR COMPLETENESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS AND DEPTHS OF ALL UTILITIES AND STRUCTURES IN THE PATH OF, OR CLOSELY PARALLEL TO, OR UNDER THE PROPOSED CONSTRUCTION, WHETHER ABANDONED OR IN SERVICE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITY OWNERS IN AMPLE TIME FOR THEM TO LOCATE AND MARK THEIR FACILITIES. THE CONTRACTOR SHALL ALSO NOTIFY DIG SAFELY NEW YORK AT LEAST 48 HOURS IN ADVANCE OF COMMENCING ANY WORK. TEL. NO. 1-800-962-7962. COST SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 01.
3. WORK SHALL NOT COMMENCE UNTIL ALL UNDERGROUND UTILITIES HAVE BEEN STAKED TO SHOW THEIR LOCATION EITHER INSIDE OR OUTSIDE THE WORK AREAS.
4. THE CONTRACTOR SHALL DIG TEST PITS AT POTENTIAL UTILITY CONFLICT LOCATIONS NOT ALREADY IDENTIFIED AS BEING RELOCATED ON THE PLANS. COST FOR TEST PIT EXCAVATION SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 02. BACKFILL AND SURFACE RESTORATION SHALL BE INCLUDED IN THE PRICE BID FOR THE APPROPRIATE PAY ITEMS. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY IF A CONFLICT EXISTS.
5. THE CONTRACTOR SHALL CONDUCT THEIR OPERATIONS AND TAKE ALL PRECAUTIONS NECESSARY TO PROTECT AND PRESERVE THE INTEGRITY OF EXISTING UTILITIES TO REMAIN, AND NEWLY INSTALLED UTILITIES AND SHALL PROVIDE UNINTERRUPTED SERVICE TO ALL USERS OF THE UTILITIES. UTILITIES ENCOUNTERED DURING CONSTRUCTION AND/OR EXCAVATION OPERATIONS SHALL BE SUPPORTED A.O.B.E. AND IN ACCORDANCE WITH THE UTILITY COMPANIES REQUIREMENTS AND REGULATIONS.
6. ALL PRIVATE UTILITY WORK TO BE PERFORMED BY THE UTILITY COMPANY. EXCEPT AS NOTED ON THE PLANS, UTILITY FACILITIES CONSTRUCTED BY OTHERS ARE SHOWN ON THE PLANS TO AID THE CONTRACTOR IN COORDINATING THE WORK. THE CONTRACTOR SHALL PROVIDE ALL SURVEY AND STAKEOUT AS NECESSARY AND/OR A.O.B.E. FOR THE UTILITY COMPANIES TO CONSTRUCT THEIR FACILITIES AS SHOWN ON THE PLANS, AND AT ELEVATIONS COMPATIBLE WITH ROADWAY AND DRAINAGE IMPROVEMENTS. CHANGES TO UTILITY LOCATIONS MUST BE APPROVED BY THE ENGINEER AND THE COUNTY.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE UTILITY COMPANIES RELOCATE THEIR FACILITIES AT THE LOCATIONS SHOWN ON THE PLANS AND AT LOCATIONS THAT WILL NOT CONFLICT WITH OTHER COMPLETED OR FUTURE WORK ON THE PROJECT.
8. PRIOR TO DEMOLITION COMMENCING, EACH DRAIN INLET WITHIN CONTRACT LIMITS SHALL BE TESTED FOR POSITIVE DRAINAGE BY FLOODING THE AREA IN THE PRESENCE OF THE ENGINEER. TESTING DRAINAGE AT NO ADDITIONAL COST TO THE BPCA. CLEARING OF CLOGGED OR DAMAGED DRAINAGE INLETS AND PIPING SHALL BE "AS ORDERED BY ENGINEER" (A.O.B.E.). PAYMENT FOR CLEARING DRAIN PIPING SHALL BE PAID UNDER RESPECTIVE ITEM BID.

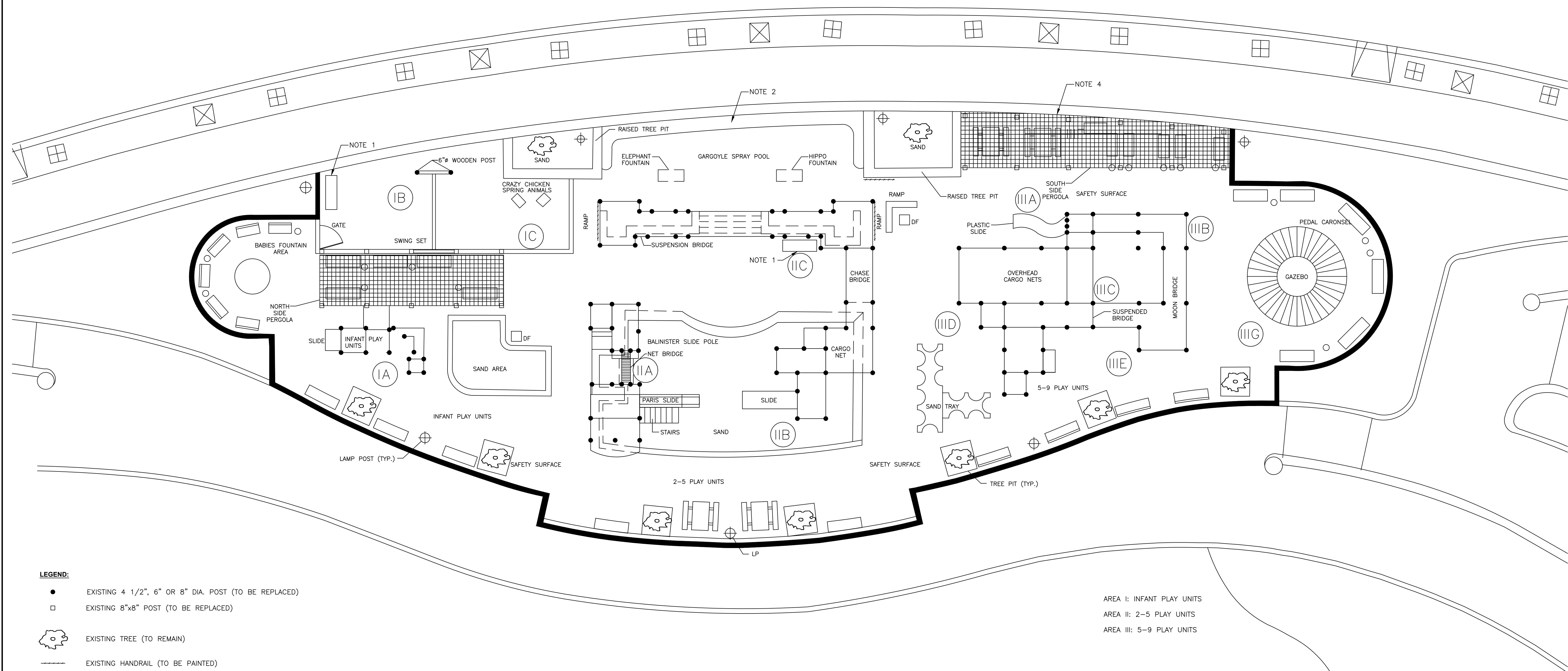
ENVIRONMENTAL NOTES

1. PRIOR TO DEMOLITION, EACH DRAIN WITHIN AREA OF SAFETY SURFACE SHALL BE PROTECTED FROM SILT WITH FABRIC WRAPPED COVERS.
2. CONTRACTOR SHALL EMPLOY MEASURES TO PREVENT CONTAMINATION OF THE SITE BY SILT, SEDIMENT, FUELS, SOLVENTS, LUBRICANTS, EPOXY COATINGS, CONCRETE, CONCRETE LEACHATE OR ANY OTHER POLLUTANT ASSOCIATED WITH THE PROJECT.
3. SILT FENCE OR OTHER SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SOIL DISTURBANCES AND MAINTAINED UNTIL PERMANENT STABILIZATION IS ESTABLISHED.
4. TEMPORARY SOIL, EROSION AND WATER POLLUTION CONTROL SHALL BE USED WHERE SHOWN ON THE PLANS AND AS DIRECTED BY THE E.I.C.

SOIL EROSION AND SEDIMENT CONTROL NOTES

1. PRIOR TO DEMOLITION, EACH DRAIN WITHIN AREA OF SAFETY SURFACE SHALL BE PROTECTED FROM SILT WITH FABRIC WRAPPED COVERS.
2. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST BE IMPLEMENTED, INSPECTED, MONITORED, AND MAINTAINED AS SPECIFIED.
3. THE LOCATIONS OF EROSION AND SEDIMENT CONTROL MEASURES, AS INDICATED IN THE CONTRACT DOCUMENTS, MAY REQUIRE FIELD ADJUSTMENTS DEPENDING ON THE SEQUENCE OF CONSTRUCTION ACTIVITIES, CONSTRUCTION METHODS AND/OR ACTUAL FIELD CONDITIONS.
4. THE ENGINEER IN CHARGE SHALL BE NOTIFIED OF ANY SIGNIFICANT CHANGES TO THE EROSION AND SEDIMENT CONTROL MEASURES INDICATED IN THE CONTRACT DOCUMENTS.
5. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE ENGINEER IN CHARGE HIS WRITTEN SCHEDULE AND PROPOSED MEASURES FOR TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL WORK AND SCHEDULE OF OPERATIONS AS REQUIRED BY SECTION 209 OF THE NYSDOT STANDARD SPECIFICATIONS.
6. REFER TO NYSDOT STANDARD SHEETS 209-1 THRU 209-7 FOR SOIL EROSION AND SEDIMENT CONTROL DETAILS.
7. WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO ADJACENT ROADWAYS. WHEN WASHING IF REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
8. DURING CONSTRUCTION, NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE INTO ANY WATERS, NOR SHALL WASHINGS FROM CONCRETE TRUCKS, MIXERS OR OTHER DEVICES BE ALLOWED TO ENTER ANY WETLAND OR WATERS.
9. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WHICH ARE PRONE TO BLOWING FROM THE WIND WILL BE COVERED BY A TARPULIN.
10. SILT FENCING MUST BE INSTALLED PARALLEL TO EXISTING CONTOURS OR CONSTRUCTED IN LEVEL ALIGNMENTS. ENDS OF FENCING MUST BE EXTENDED 10 FT., TRAVELING UPSLOPE AT 45 DEGREES TO THE ALIGNMENT OF THE MAIN FENCING SECTION.
11. WHERE SILT FENCE IS USED IN AREAS OF CONCENTRATED FLOW, THE ENGINEER IN CHARGE MAY CALL FOR BACKING THE SILT FENCE WITH STRAW BALES. AN APPROVED GEOTEXTILE OR FILTER FENCE MAY BE SUBSTITUTED FOR STRAW BALES AT NO ADDITIONAL COST. GEOTEXTILE SHALL SATISFY THE REQUIREMENTS OF SECTION 207-2 OF THE STANDARD SPECIFICATIONS.
12. CONTROL MEASURES SHALL BE USED AS NECESSARY AND SHALL FOLLOW DITCH EXCAVATING OPERATIONS. THEY SHALL REMAIN IN PLACE UNTIL THE NEW SLOPES HAVE BEEN STABILIZED BY SEEDING, MULCH AND OR SLOPE PROTECTION IN ACCORDANCE WITH SECTION 209 OF THE NYSDOT STANDARD SPECIFICATIONS.
13. IF CONSTRUCTION ACTIVITIES ARE DISCONTINUED IN AREAS OF SOIL DISTURBANCE BEFORE FINAL GRADING IS COMPLETE, THEN TEMPORARY GRADING SHALL INCLUDE TEMPORARY SEEDING AND MULCH (ITEM 209.1003) THAT WILL BE STABILIZED WITHIN 7 DAYS OF EXPOSURE. MULCH SHALL BE MAINTAINED UNTIL SUITABLE VEGETATIVE COVER IS ESTABLISHED. THIS PAY ITEM IS ESTIMATED AND THE QUANTITY MAY VARY BASED ON ACTUAL CONSTRUCTION CONDITIONS.
14. CONTAIN ANY TEMPORARY STOCKPILES OF TOPSOIL, OR FILL, WITH SILT FENCES AS SHOWN IN THE SILT FENCE DETAIL IN THE NYSDOT STANDARD SHEETS AND STANDARD SPECIFICATIONS. PILES EXPOSED FOR LONGER THAN TWO WEEKS SHALL BE STABILIZED BY SEEDING, MULCH AND/OR SLOPE PROTECTION IN ACCORDANCE WITH SECTION 209 OF THE NYSDOT STANDARD SPECIFICATIONS.
15. ALL METHODS AND EQUIPMENT PROPOSED BY THE CONTRACTOR TO ACCOMPLISH THE WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER IN CHARGE.
16. AT THE COMPLETION OF CONSTRUCTION AND PERMANENT SOIL STABILIZATION, SEDIMENT SHALL BE REMOVED FROM NEW DRAINAGE PIPES, DRAINAGE STRUCTURES, AND CHECK DAMS. THE COST FOR SEDIMENT REMOVAL SHALL BE INCLUDED IN THE COST BID FOR THE EROSION CONTROL ITEMS.
17. THE LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES, AS INDICATED IN THE CONTRACT DOCUMENTS, MAY REQUIRE FIELD ADJUSTMENTS DEPENDING ON THE SEQUENCE OF CONSTRUCTION ACTIVITIES, CONSTRUCTION METHODS AND/OR ACTUAL FIELD CONDITIONS. NO MODIFICATIONS WILL BE MADE WITHOUT THE APPROVAL OF THE ENGINEER.
18. THE SIDEWALKS MUST BE KEPT CLEAN OF MUD, DIRT, AND OTHER DEBRIS AT ALL TIMES.

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- EXISTING 4 1/2", 6" OR 8" DIA. POST (TO BE REPLACED)
- EXISTING 8"x8" POST (TO BE REPLACED)



1. REMOVE BENCH AND TURN OVER TO BPCA.
2. RE-POINT EXISTING GRANITE SEAT/WALL AT GARGOYLE SPRAY POOL AREA.
3. FOR CLARITY, PLAY UNITS ARE SHOWN WITHOUT DECKS, STEPS, ENCLOSURE WALLS, ACTIVITY WALLS, RAILS, SIDE POLES, NETS, ROOFS, AND OTHER COMPONENTS. CONTRACTOR SHALL PERFORM THE PRE-CONSTRUCTION INVENTORY TO ACCOUNT FOR ALL COMPONENTS WITHIN LIMITS OF WORK TO BE RECONSTRUCTED UNDER THIS CONTRACT.
4. ENTIRE PERGOLA SHALL BE REPLACED IN-KIND, EXCEPT VERTICAL 1"x1" LATTICE PANEL ALONG SIDEWALK.

$1/8" = 1' - 0"$



1	7/5/18	ISSUED FOR BID	CFK
NO.	DATE	REVISION	INT.

DESIGNED BY	MDC
CHECKED BY	CFK

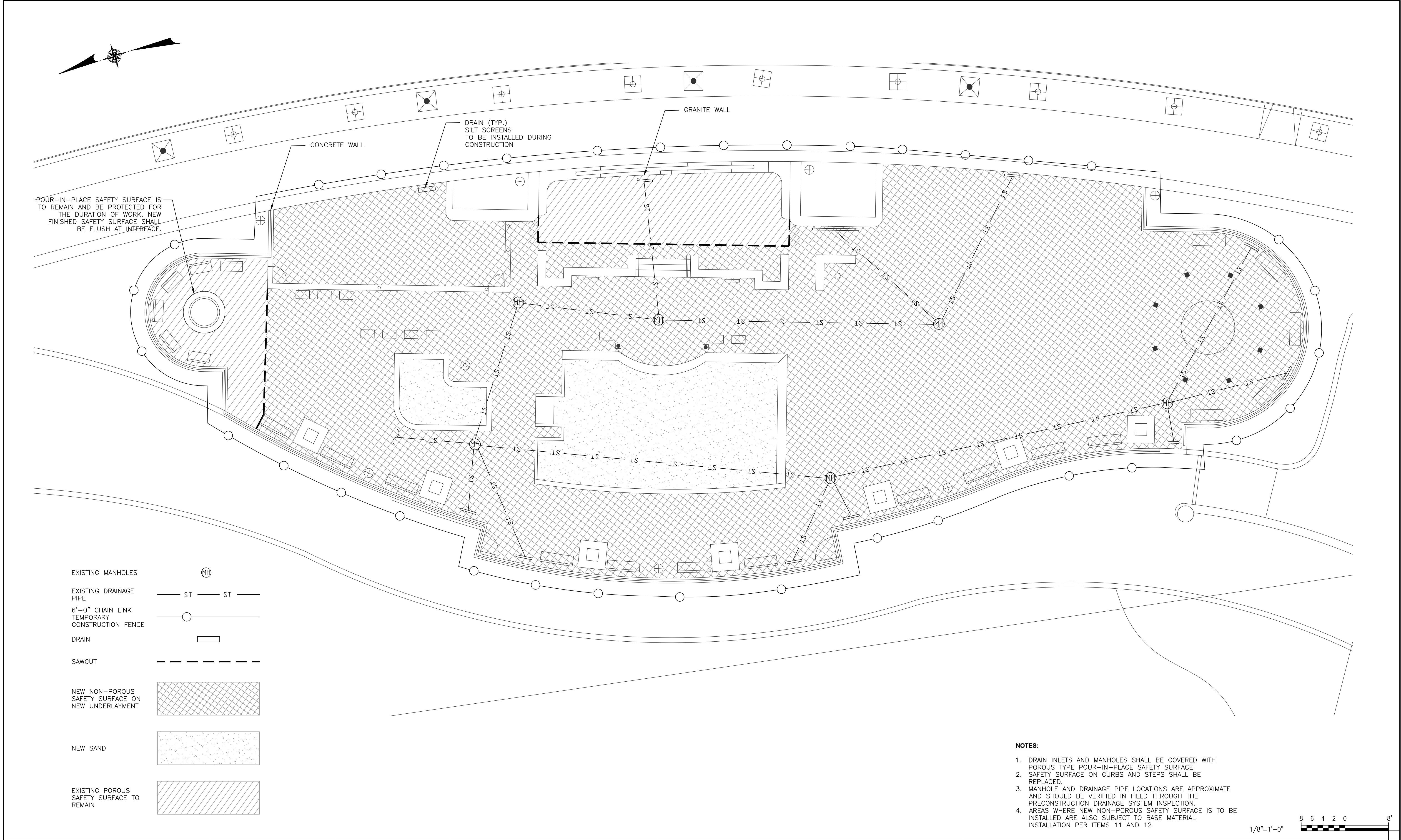


CITY OF NEW YORK

ROCKEFELLER PARK TERRACE PLAYGROUND RECONSTRUCTION

PLAYGROUND EQUIPMENT PLAN

PROJECT NO. 2017200282.009	SHEET NO. 5 OF 23
DATE: JULY 2018	DRAWING NO. C-5
SCALE: 1/8" = 1'-0"	



1	7/5/18	ISSUED FOR BID	CFK
NO.	DATE	REVISION	INT.

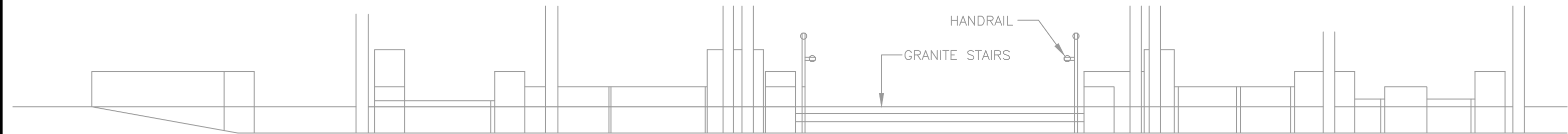
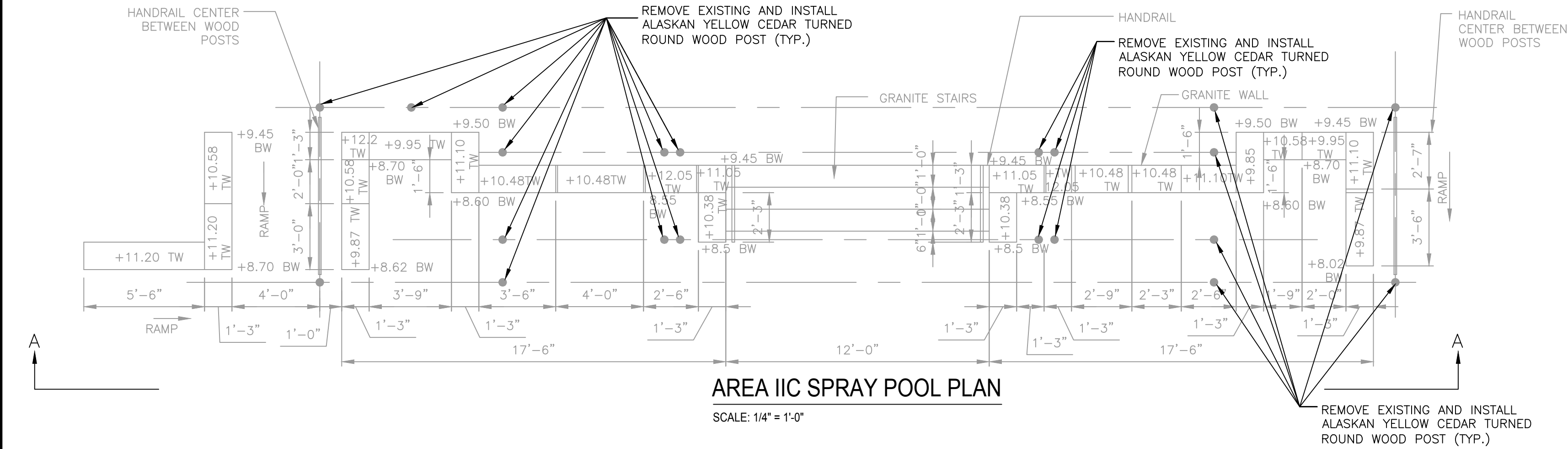
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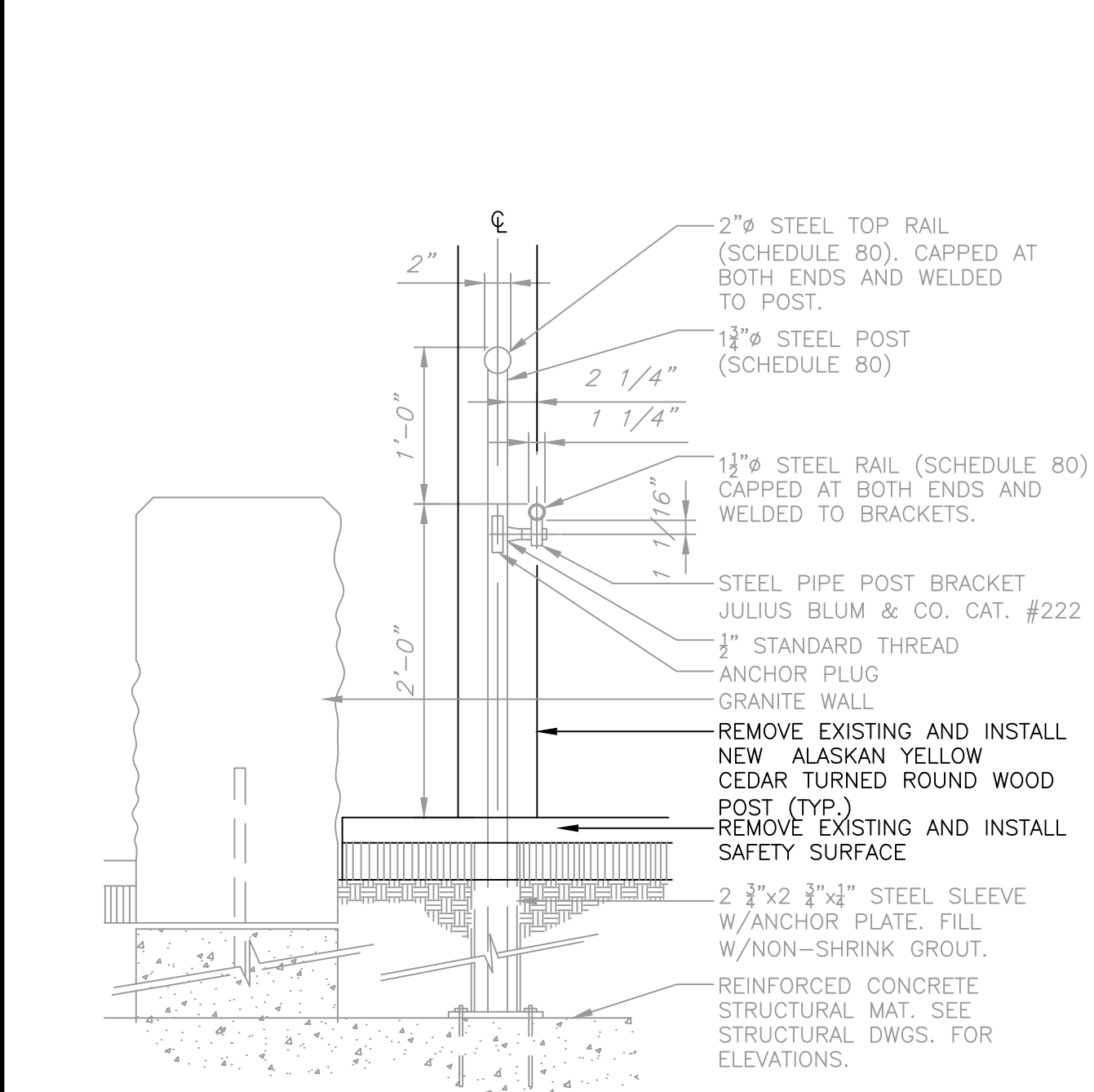
BATTERY PARK CITY AUTHORITY	
BOROUGH OF MANHATTAN	CITY OF NEW YORK
ROCKEFELLER PARK TERRACE PLAYGROUND RECONSTRUCTION	

SURFACE AREA TYPES AND DRAIN PLAN

PROJECT NO. 2017200282.009	SHEET NO. 6 OF 23
DATE: JULY 2018	DRAWING NO. C-6
SCALE: 1/8" = 1'-0"	

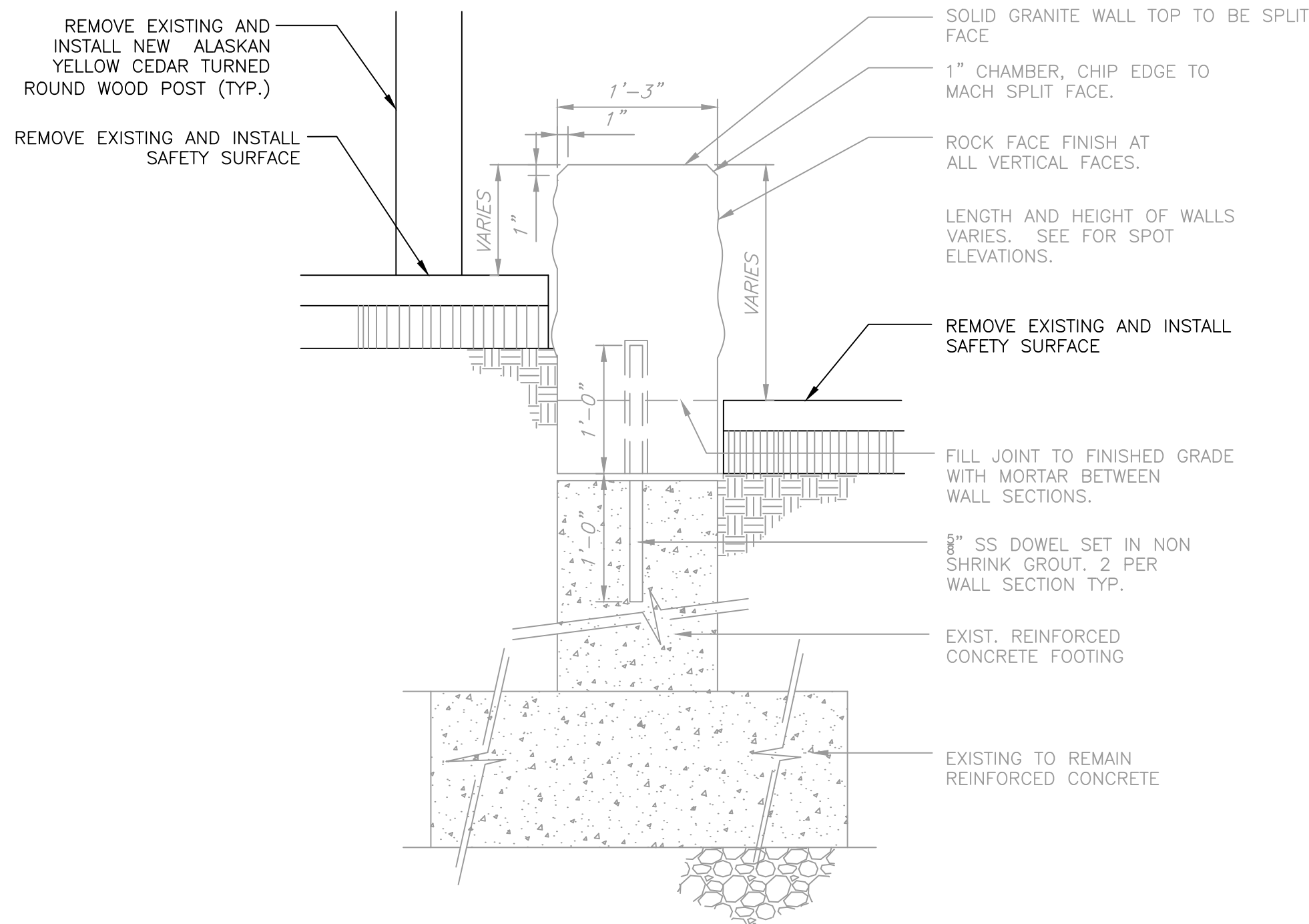


A GRANITE WALL AT SPRAY POOL ELEVATION
C-7 SCALE: 1/4" = 1'-0"



TYPE 11 HANDRAIL AT RAMPS AT CHILDREN'S PLAY SECTION

SCALE: 1"=10'



GRANITE WALL SECTION

SCALE: 1"=10'

NOTES:

- STEEL AND OTHER ELEMENTS OF THE EXISTING PLAYGROUND STRUCTURES, EXCLUDING WOOD, ARE TO BE REMOVED, REFURBISHED, RESTORED, REPAIRED, STORED, REPAINTED AND REINSTALLED IN ACCORDANCE WITH THE CONTRACT WORK ITEMS #4, #10, #14 AND #17 RESPECTIVELY.
- TIMBER POSTS, BEAMS, DECKING, STEPS, BRIDGE PLANKS, AND OTHER WOODEN ELEMENTS OF THE ENTIRE PLAYGROUND SITE SHALL BE REPLACED IN-KIND IN ACCORDANCE WITH CONTRACT WORK ITEMS #4, #8, #9, #15, AND #16.
- EXISTING STEEL SLEEVES WITH BASE PLATES FOR TIMBER POSTS SHALL REMAIN IN-PLACE, AND BE PROTECTED FOR RE-USE. REPLACEMENT OF EXISTING STEEL SLEEVES OR BASE PLATE ANCHOR BOLTS SHALL BE AS ORDERED BY THE ENGINEER UNDER CONTRACT UNIT PRICE ITEMS #1 & #2. COST FOR EXPOSING EXISTING SLEEVES AND BASE PLATES FOR INSPECTION BY THE ENGINEER SHALL BE INCLUDED IN BID PRICE FOR ITEM #8.
- DRAWINGS OF PLAYGROUND STRUCTURES INCLUDED HEREIN MAY NOT ACCURATELY REFLECT ALL CURRENT CONDITIONS AND ELEMENTS AT THE SITE. THE DETAILS HEREIN ARE PROVIDED FOR GENERAL INFORMATION. BID PRICE FOR CONTRACT WORK SHALL BE BASED ON ACTUAL CONDITIONS TO BE DETERMINED UNDER ITEMS #4 AND #5.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW OF CONNECTIONS OF NEW WOOD POSTS TO EXISTING MEMBERS.
- ALL NEW MEMBERS SHALL BE MECHANICALLY FASTENED TO NEW/EXISTING MEMBERS. EACH CONNECTION SHALL HAVE A MINIMUM OF TWO A307 BOLTS WITH STEEL CONNECTION PLATES OR ANGLES WITH A MINIMUM THICKNESS OF 3/4". CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL OF EACH CONNECTION TYPE.

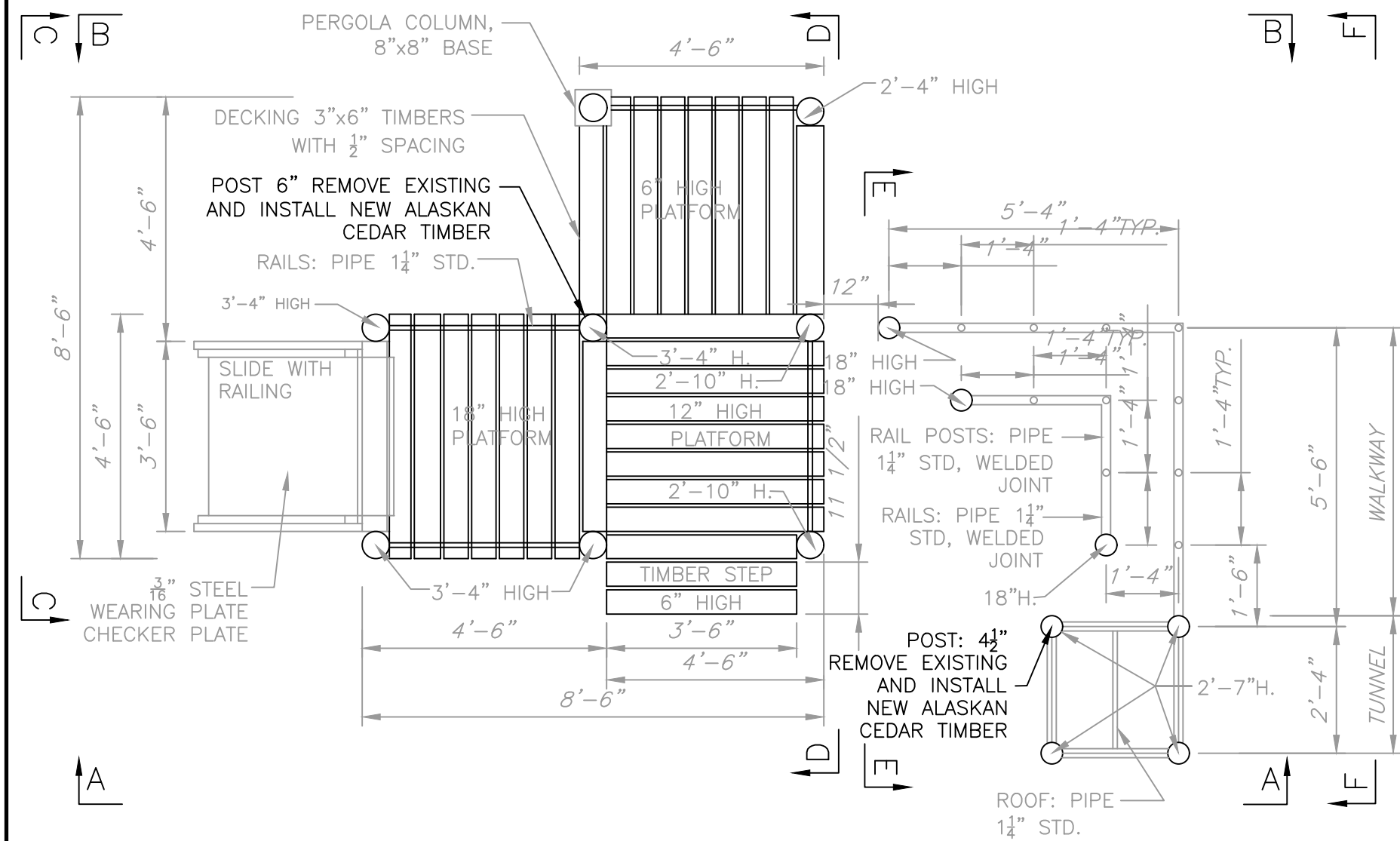
1	7/5/18	ISSUED FOR BID	CFK
NO.	DATE	REVISION	INT.

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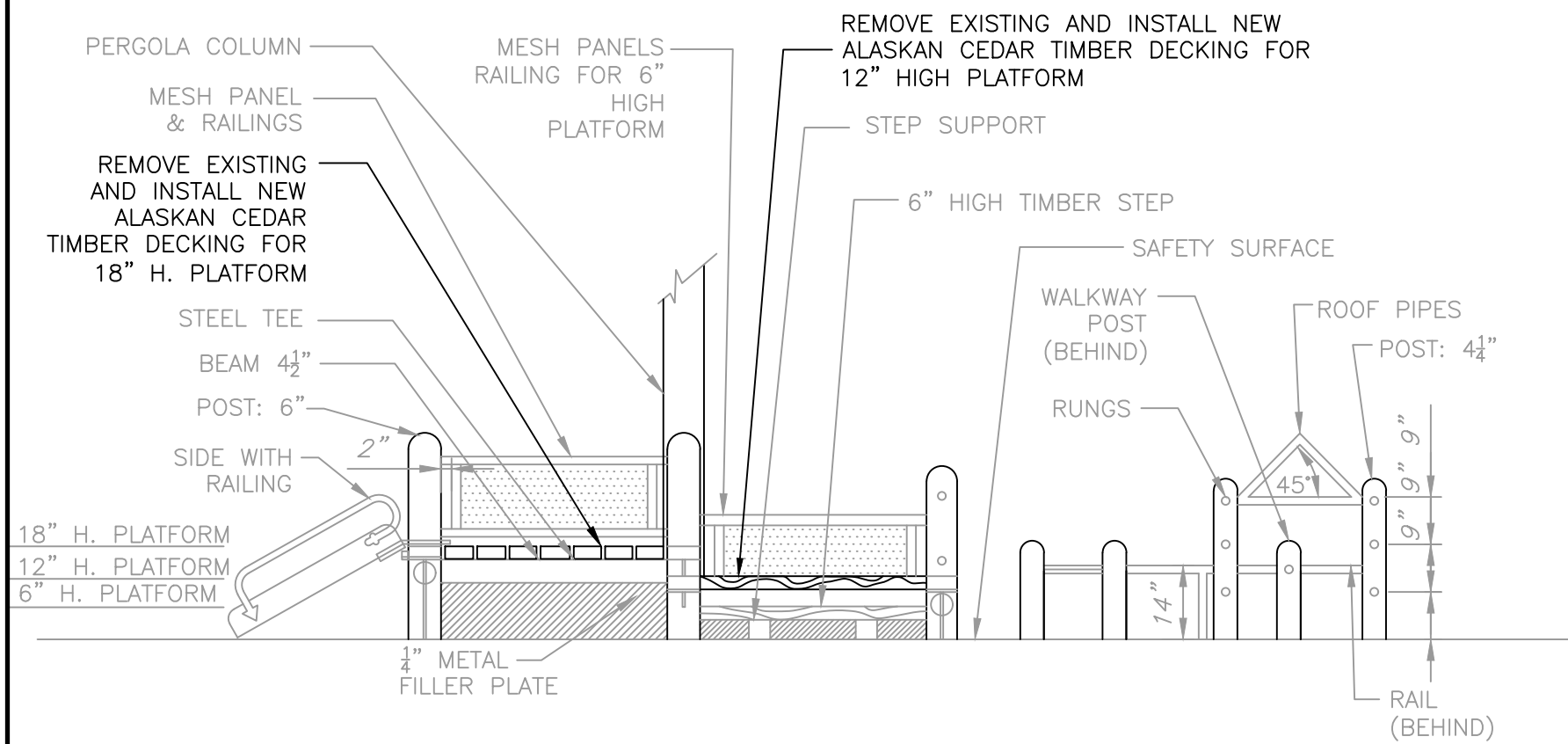


BATTERY PARK CITY AUTHORITY	
BOROUGH OF MANHATTAN	CITY OF NEW YORK
ROCKEFELLER PARK TERRACE PLAYGROUND RECONSTRUCTION	

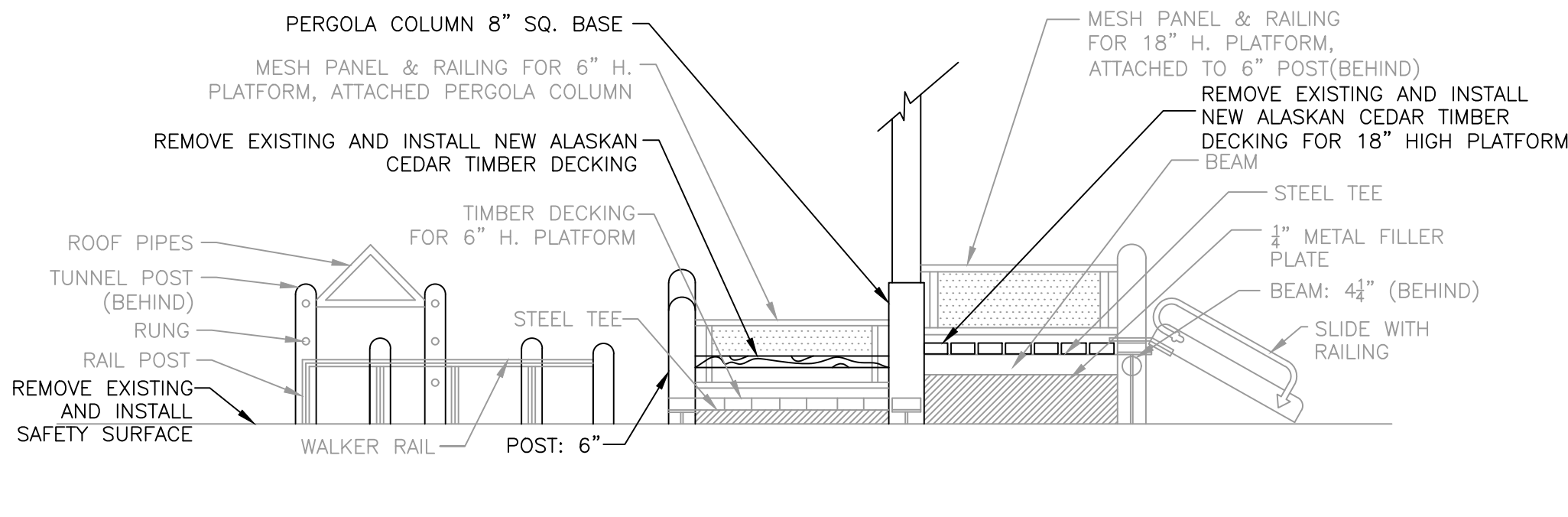
REMOVALS/RECONSTRUCTION OF SPRAY POOL	
PROJECT NO. 2017200282.009	SHEET NO. 7 OF 23
DATE: JULY 2018	DRAWING NO. C-7
SCALE: AS NOTED	



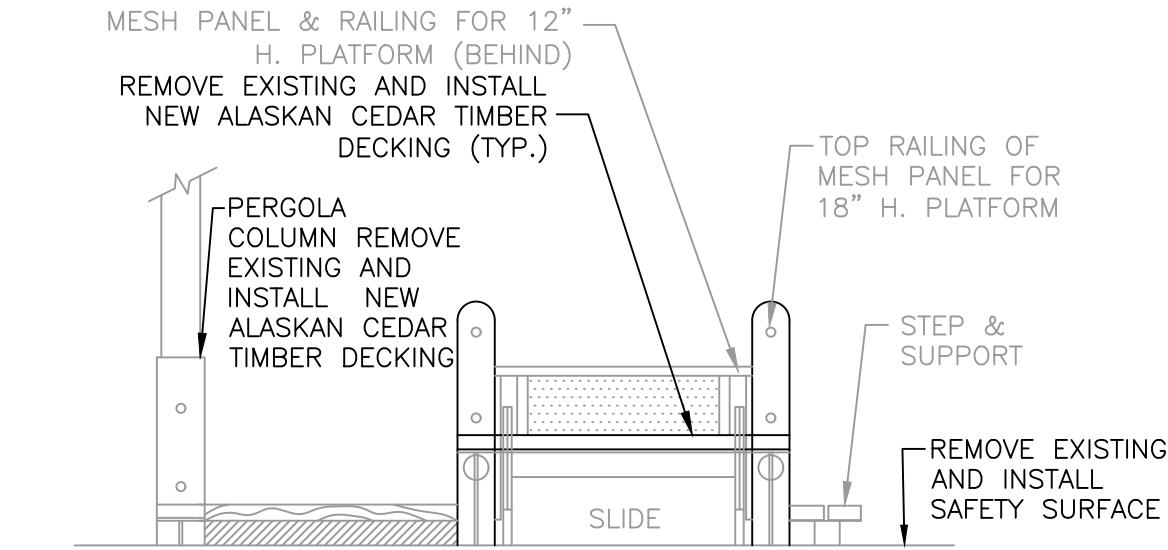
AREA IA INFANT PLAY UNITS PLAN
SCALE: 3/8" = 1'-0"



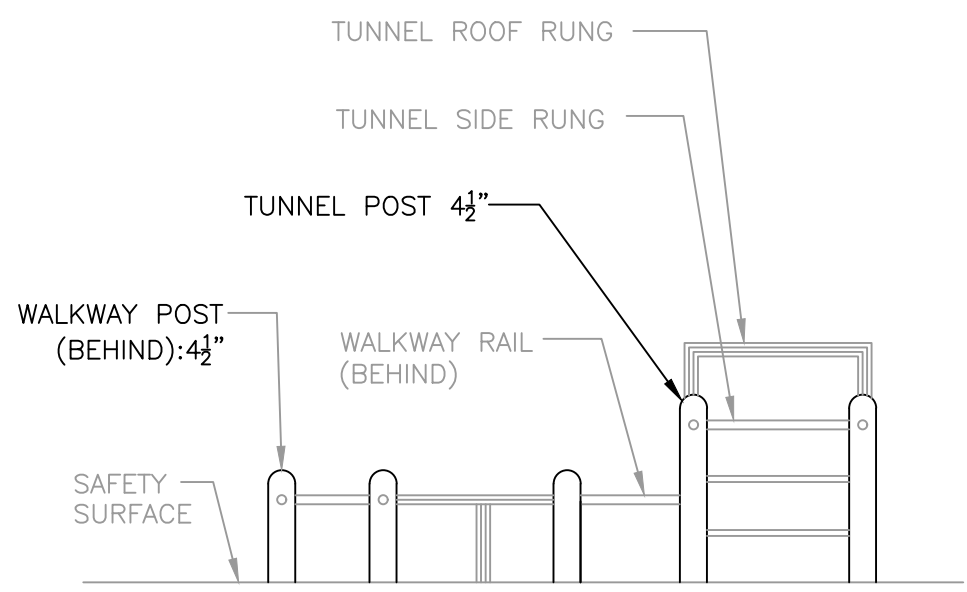
A
C-8
ELEVATION
SCALE: 3/8" = 1'-0"



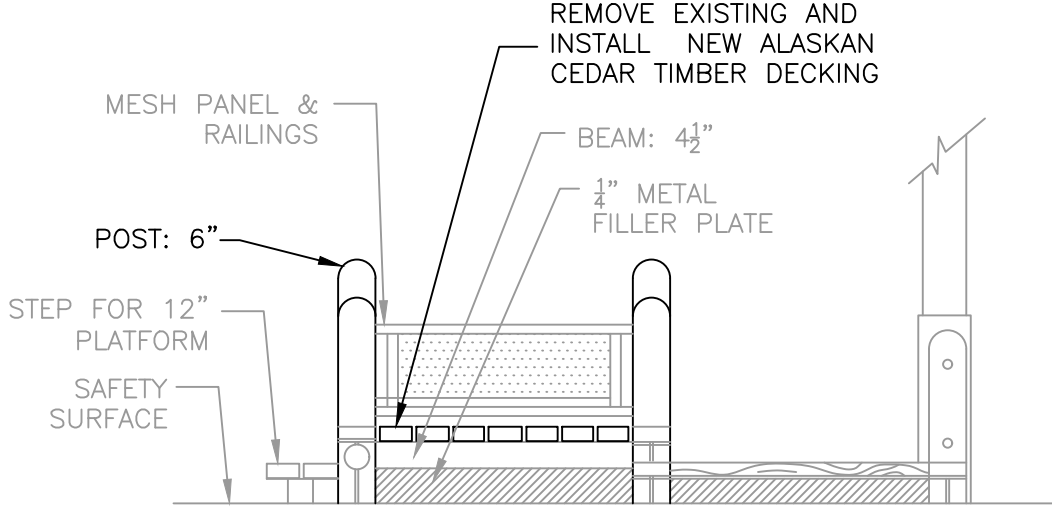
B
C-8
ELEVATION
SCALE: 3/8" = 1'-0"



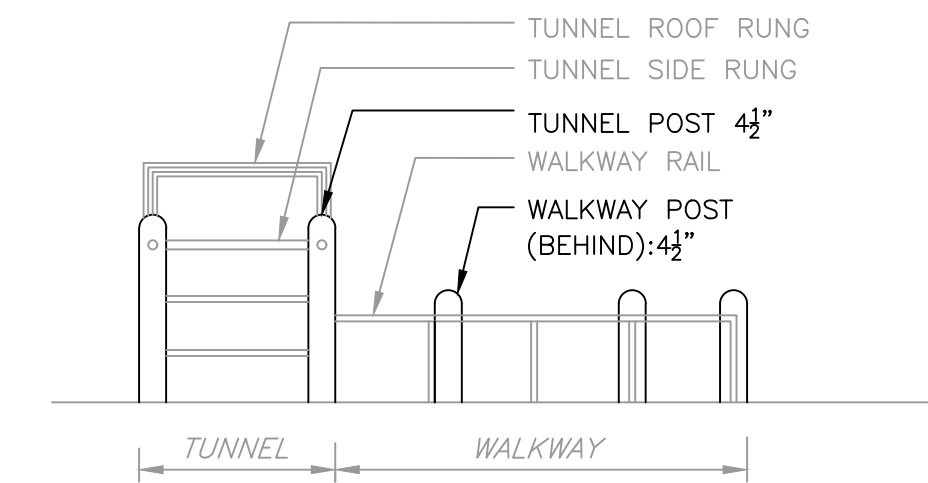
C
C-8
ELEVATION
SCALE: 3/8" = 1'-0"



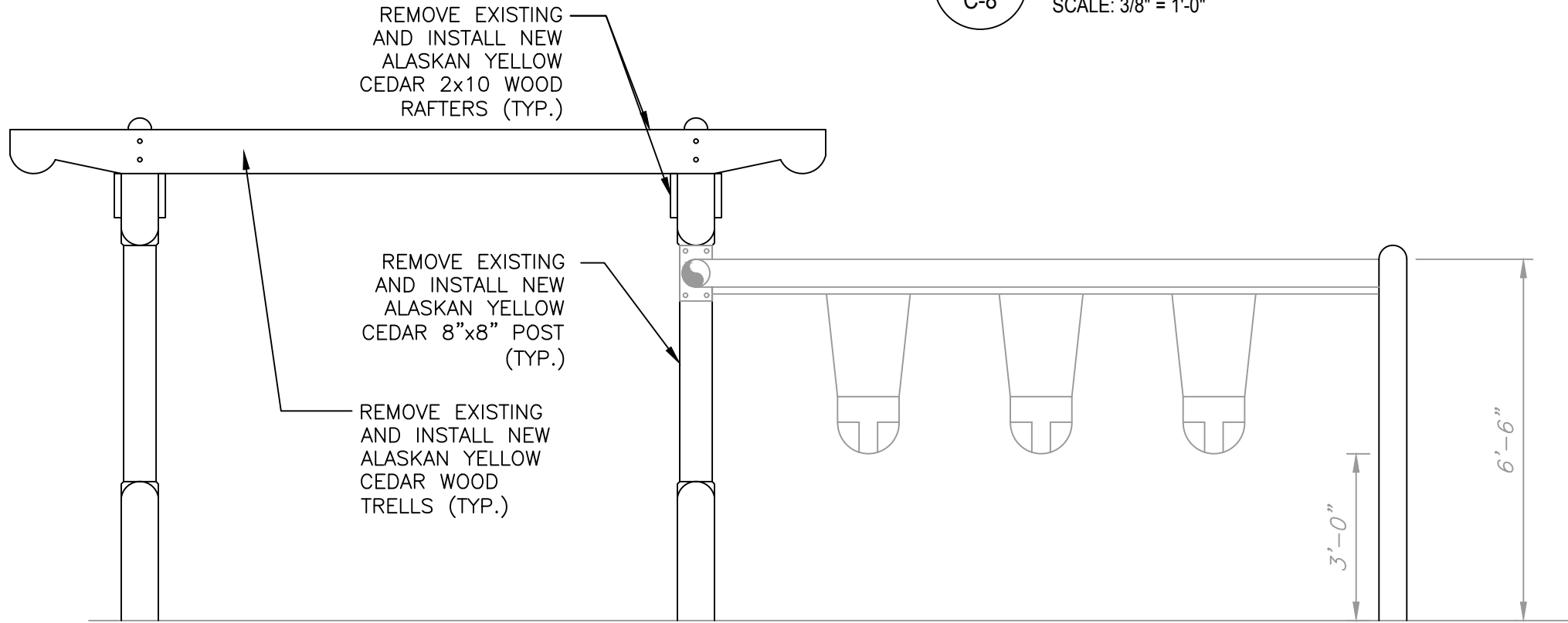
F
C-8
ELEVATION
SCALE: 3/8" = 1'-0"



D
C-8
ELEVATION
SCALE: 3/8" = 1'-0"



E
C-8
ELEVATION
SCALE: 3/8" = 1'-0"



AREA IB SWING AREA
SCALE: N.T.S.

- NOTES:**
- STEEL AND OTHER ELEMENTS OF THE EXISTING PLAYGROUND STRUCTURES, EXCLUDING WOOD, ARE TO BE REMOVED, REFURBISHED, RESTORED, REPAIRED, STORED, REPAINTED AND REINSTALLED IN ACCORDANCE WITH THE CONTRACT WORK ITEMS #4, #10, #14 AND #17 RESPECTIVELY.
 - TIMBER POSTS, BEAMS, DECKING, STEPS, BRIDGE PLANKS, AND OTHER WOODEN ELEMENTS OF THE ENTIRE PLAYGROUND SITE SHALL BE REPLACED IN-KIND IN ACCORDANCE WITH CONTRACT WORK ITEMS #4, #8, #9, #15, AND #16.
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 - DRAWINGS OF PLAYGROUND STRUCTURES INCLUDED HEREIN MAY NOT ACCURATELY REFLECT ALL CURRENT CONDITIONS AND ELEMENTS AT THE SITE. THE DETAILS HEREIN ARE PROVIDED FOR GENERAL INFORMATION. BID PRICE FOR CONTRACT WORK SHALL BE BASED ON ACTUAL CONDITIONS TO BE DETERMINED UNDER ITEMS #4 AND #5.
 - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW OF CONNECTIONS OF NEW WOOD POST TO EXISTING MEMBERS
 - ALL NEW MEMBERS SHALL BE MECHANICALLY FASTENED TO NEW/EXISTING MEMBERS. EACH CONNECTION SHALL HAVE A MINIMUM OF TWO A307 BOLTS WITH STEEL CONNECTION PLATES OR ANGLES WITH A MINIMUM THICKNESS OF 1/2". CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL OF EACH CONNECTION TYPE.

1	7/5/18	ISSUED FOR BID	CFK
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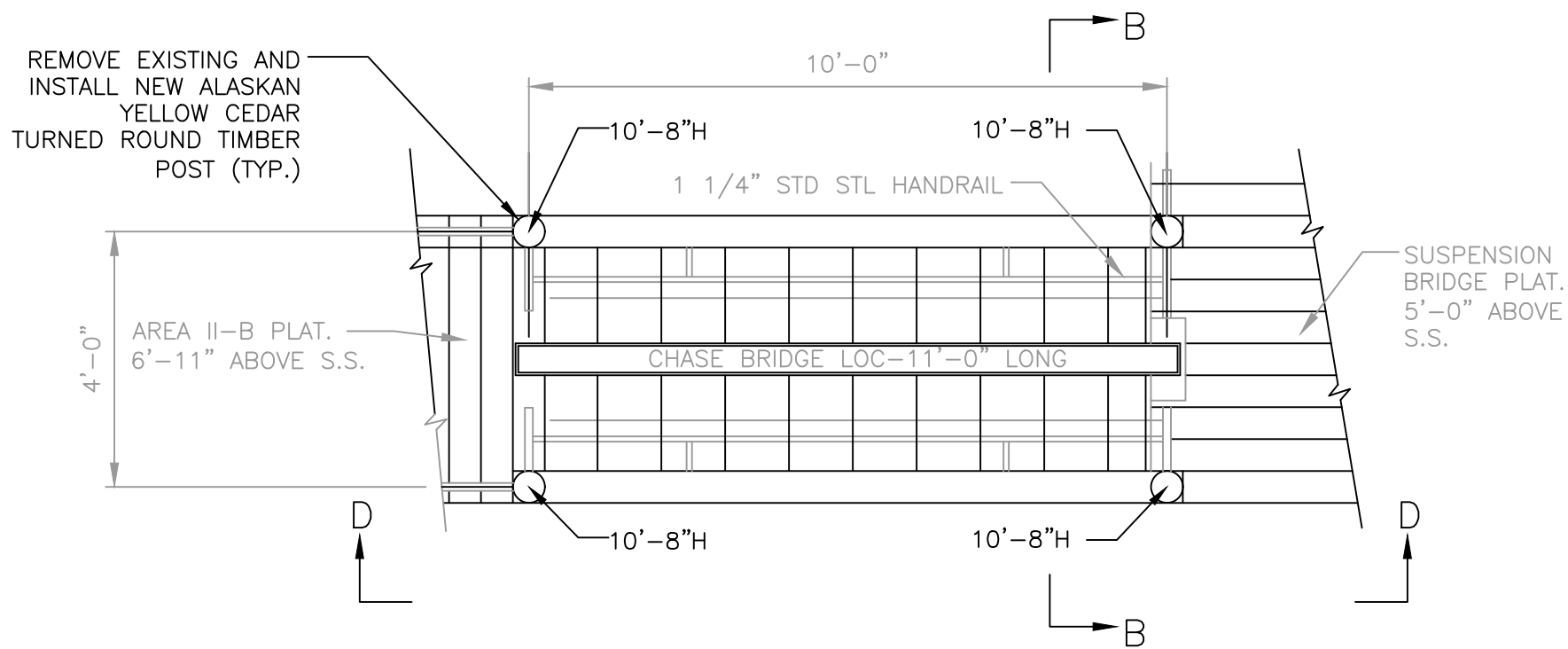


BATTERY PARK CITY AUTHORITY	
BOROUGH OF MANHATTAN	CITY OF NEW YORK
ROCKEFELLER PARK TERRACE PLAYGROUND RECONSTRUCTION	

REMOVALS/RECONSTRUCTION FRAMING,
FOOTING AND SWING DETAILS

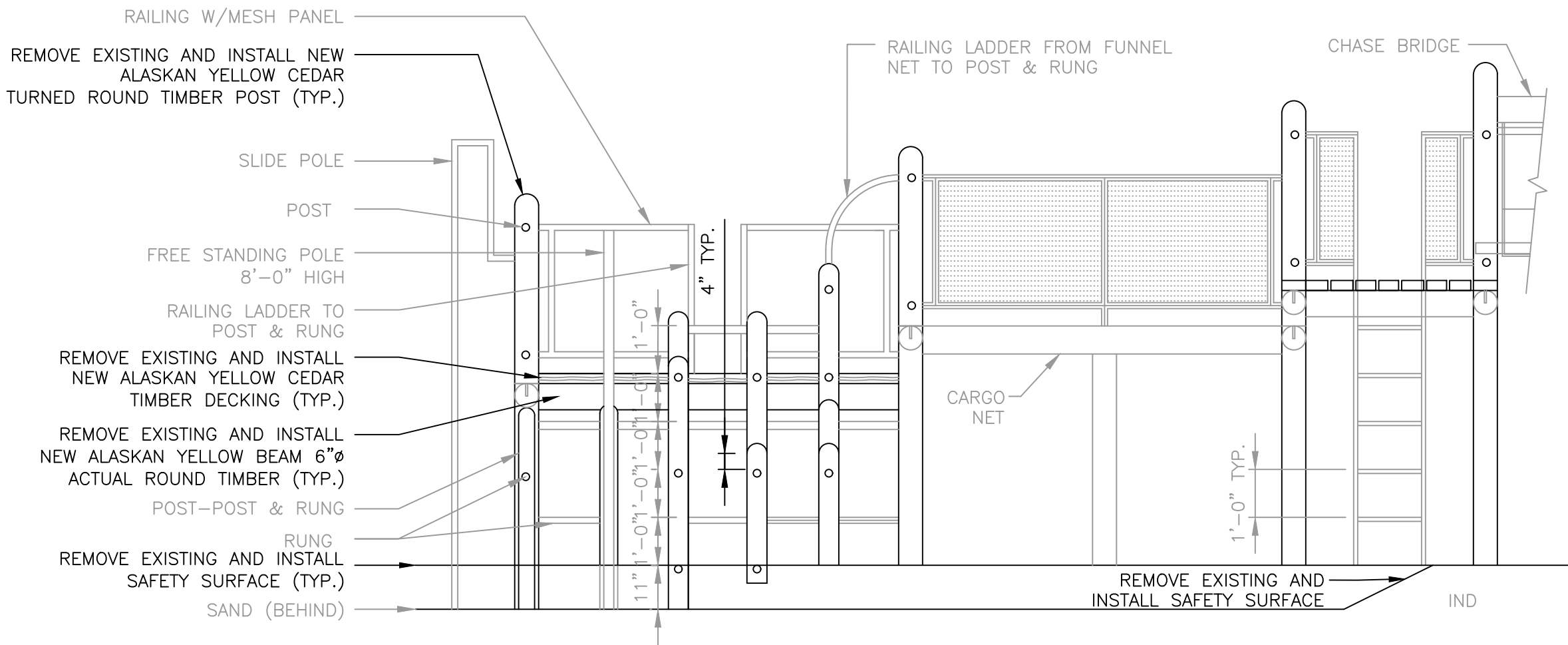
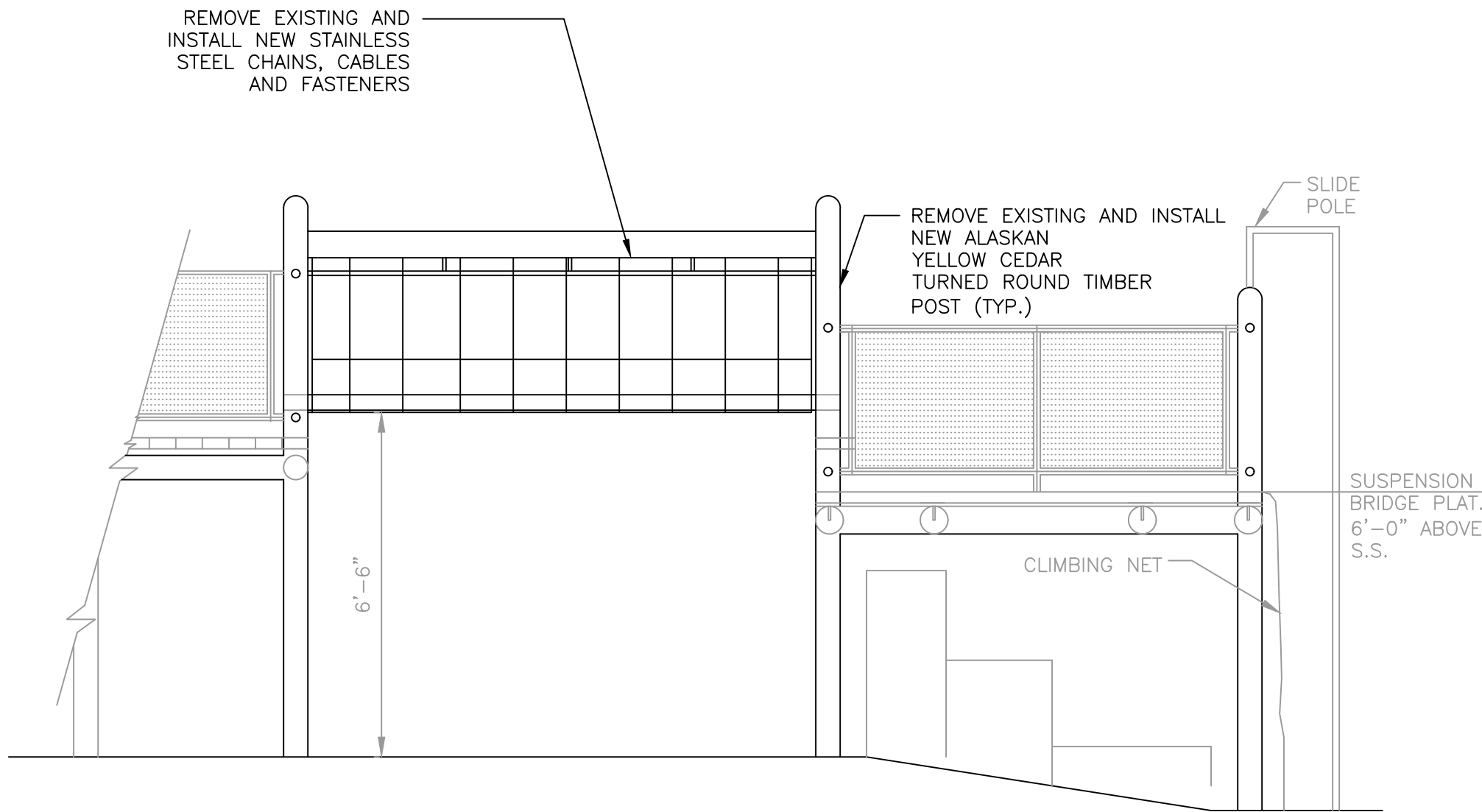
PROJECT NO. 2017200282.009	SHEET NO. 8 OF 23
DATE: JULY 2018	DRAWING NO. C-8
SCALE: AS NOTED	

[illegible]



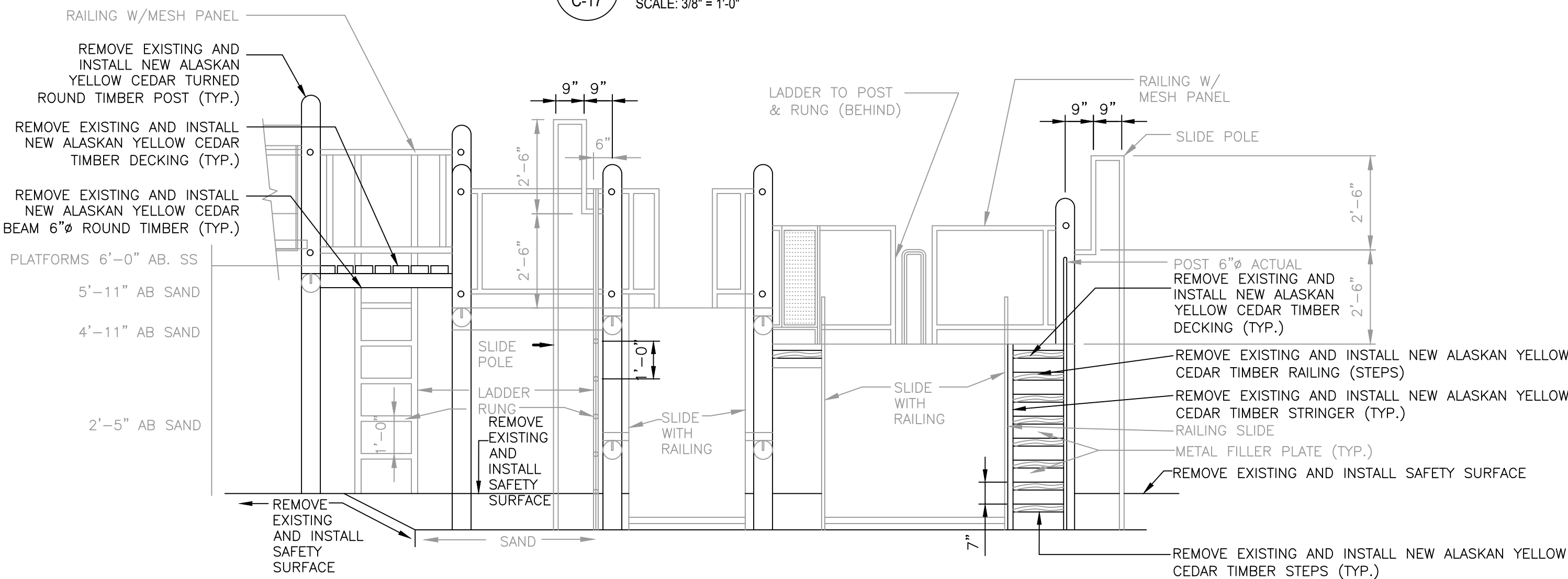
CHASE BRIDGE PLAN

SCALE: 3/8" = 1'-0"



E AREA IIB: ELEVATION

SCALE: 3/8" = 1'-0"

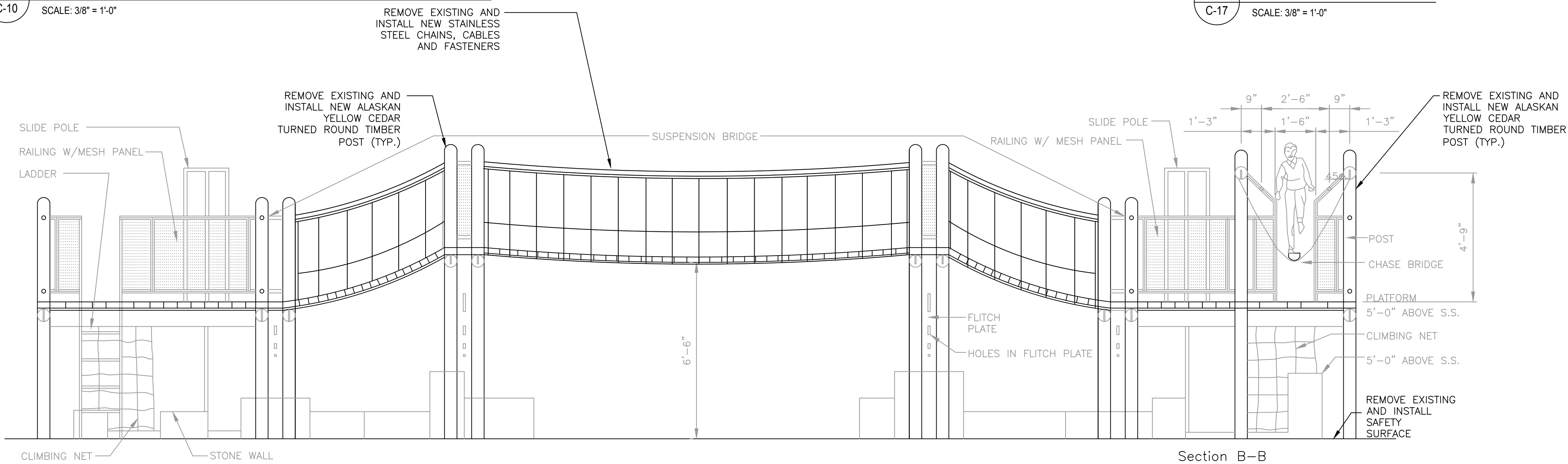


D AREA IIB: ELEVATION

SCALE: 3/8" = 1'-0"

D AREA IIC: CHASE BRIDGE & PLATFORMS ELEVATION

SCALE: 3/8" = 1'-0"



B AREA IIC: SUSPENSION BRIDGE & PLATFORMS ELEVATION

SCALE: 3/8" = 1'-0"

Section B-B

SEE CHASE BRIDGE PLAN, THIS SHEET.

NOTE:

- STEEL AND OTHER ELEMENTS OF THE EXISTING PLAYGROUND STRUCTURES, EXCLUDING WOOD, ARE TO BE REMOVED, REFURBISHED, RESTORED, REPAIRED, STORED, REPAINTED AND REINSTALLED IN ACCORDANCE WITH THE CONTRACT WORK ITEMS #4, #10, #14 AND #17 RESPECTIVELY.
- TIMBER POSTS, BEAMS, DECKING, STEPS, BRIDGE PLANKS, AND OTHER WOODEN ELEMENTS OF THE ENTIRE PLAYGROUND SITE SHALL BE REPLACED IN-KIND IN ACCORDANCE WITH CONTRACT WORK ITEMS #4, #8, #9, #15, AND #16.
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- DRAWINGS OF PLAYGROUND STRUCTURES INCLUDED HEREIN MAY NOT ACCURATELY REFLECT ALL CURRENT CONDITIONS AND ELEMENTS AT THE SITE. THE DETAILS HEREIN ARE PROVIDED FOR GENERAL INFORMATION. BID PRICE FOR CONTRACT WORK SHALL BE BASED ON ACTUAL CONDITIONS TO BE DETERMINED UNDER ITEMS #4 AND #5.
- UPON REINSTALLATION OF SUSPENSION BRIDGE, HEAD CLEARANCE SHALL BE AS SHOWN.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW OF CONNECTIONS OF NEW WOOD POST TO EXISTING MEMBERS
- ALL NEW MEMBERS SHALL BE MECHANICALLY FASTENED TO NEW/EXISTING MEMBERS. EACH CONNECTION SHALL HAVE A MINIMUM OF TWO A307 BOLTS WITH STEEL CONNECTION PLATES OR ANGLES WITH A MINIMUM THICKNESS OF 1/2". CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL OF EACH CONNECTION TYPE.

1	7/5/18	ISSUED FOR BID	CFK
NO.	DATE	REVISION	INT.

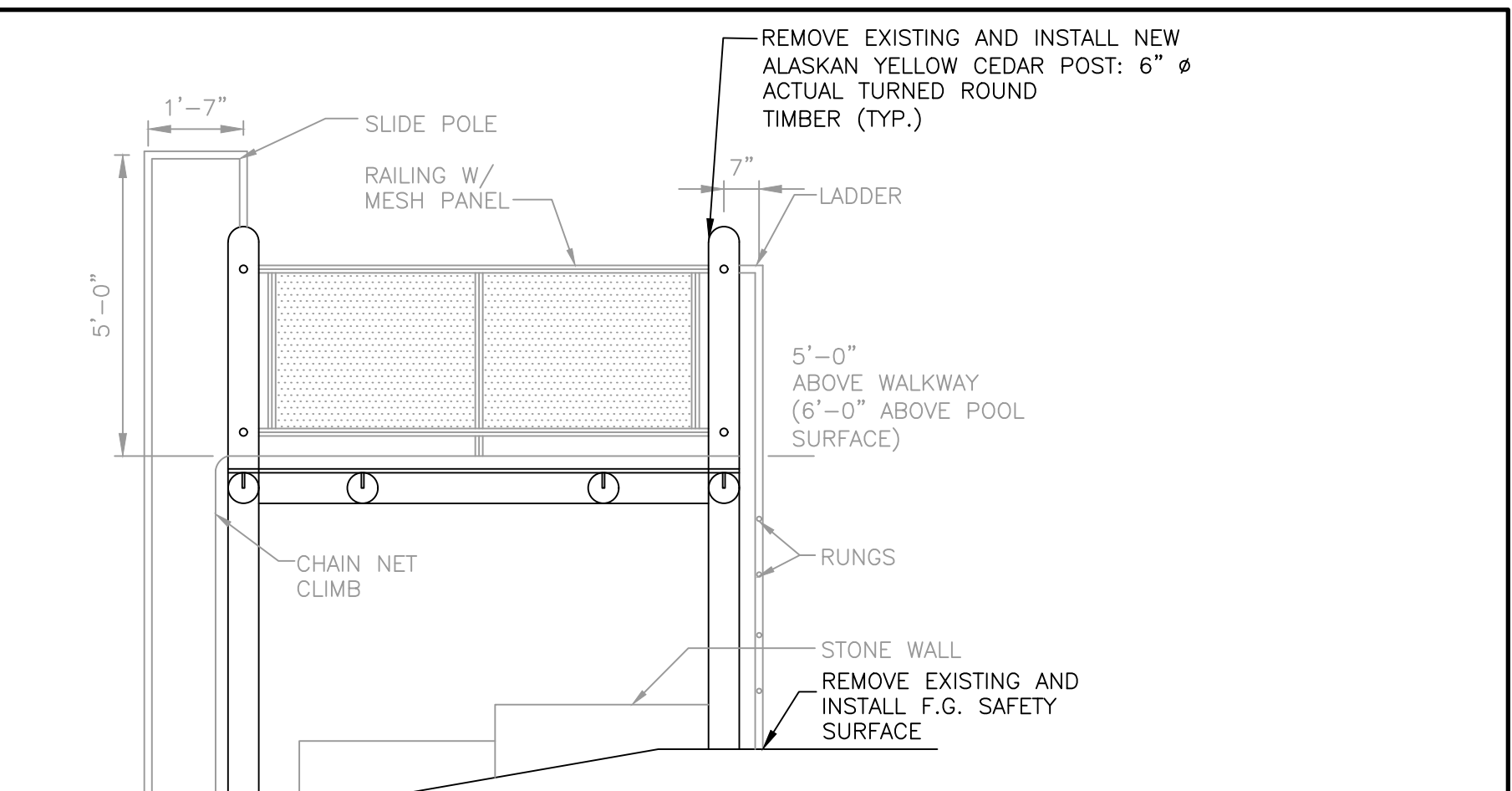
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.	
DESIGNED BY	MDC
CHECKED BY	CFK



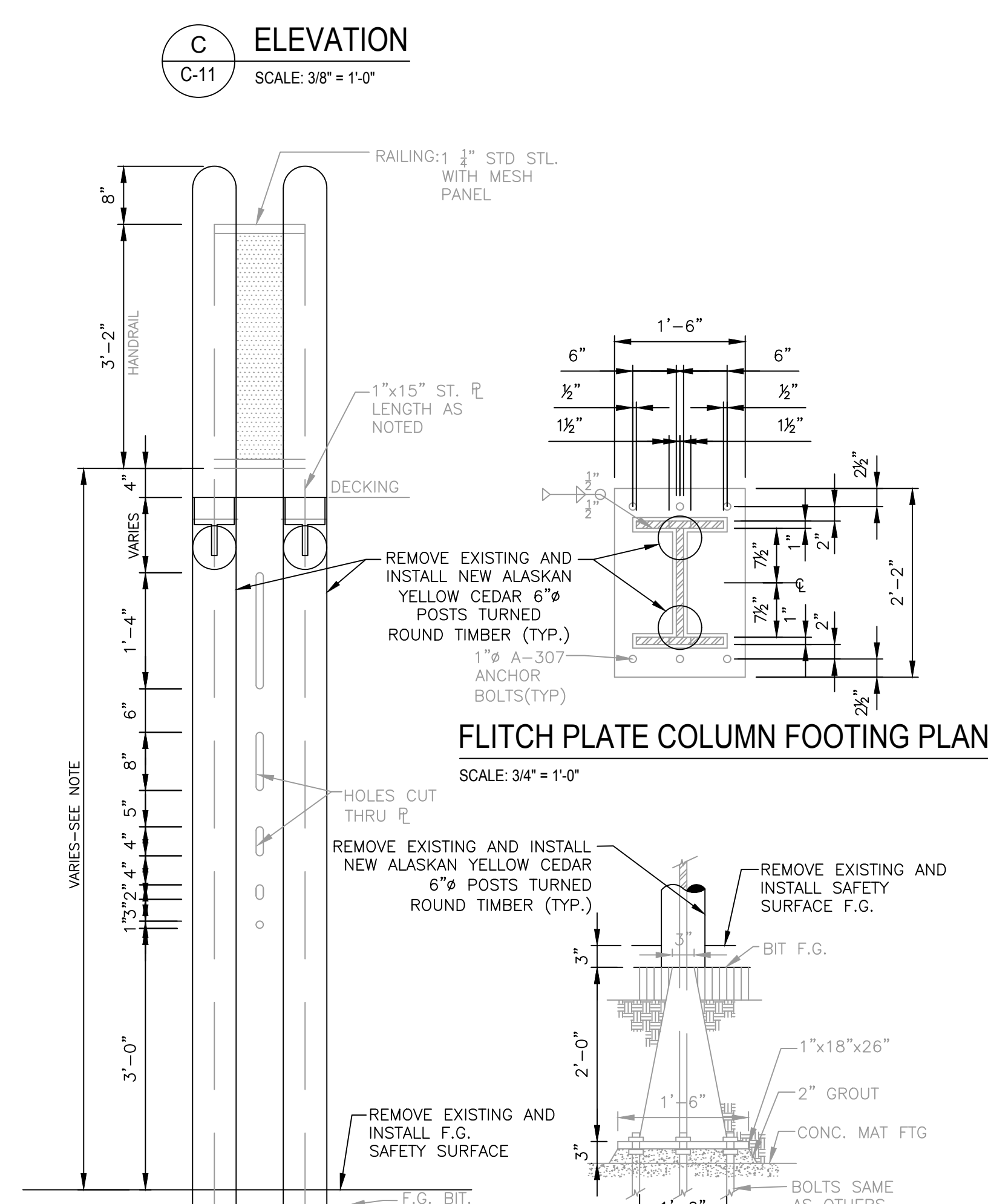
BATTERY PARK CITY AUTHORITY	
BOROUGH OF MANHATTAN	CITY OF NEW YORK
ROCKEFELLER PARK TERRACE PLAYGROUND RECONSTRUCTION	

**REMOVALS/RECONSTRUCTION
AREA II-B DETAILS**

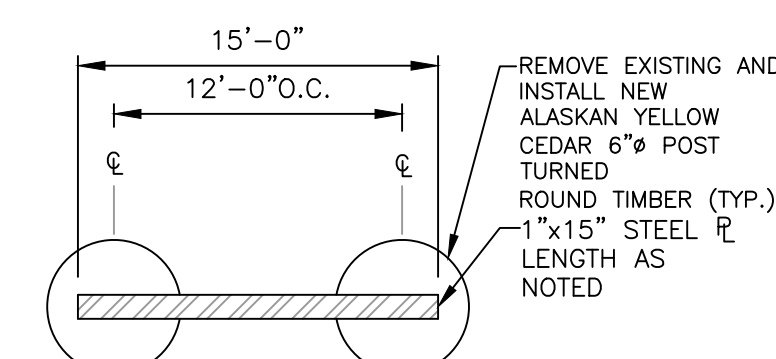
PROJECT NO.	2017200282.009	SHEET NO.	10 OF 23
DATE:	JULY 2018	DRAWING NO.	C-10
SCALE:	AS NOTED		



C ELEVATION

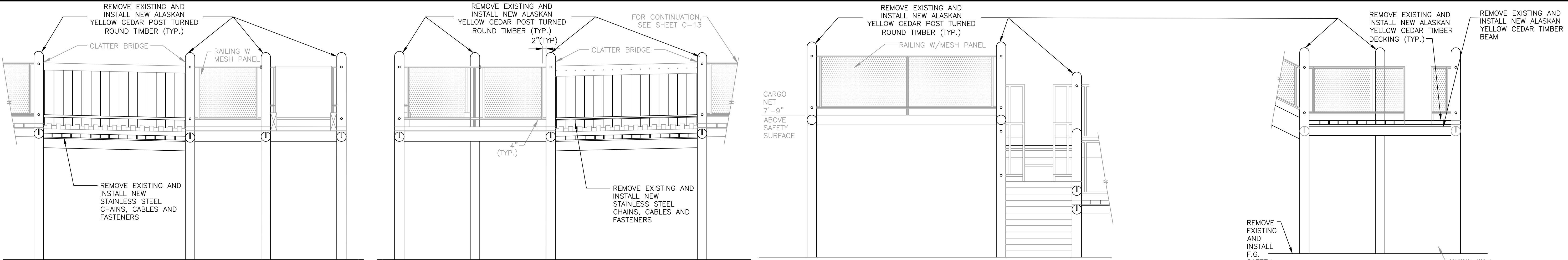


E FLITCH PLATE COLUMN FOOTING ELEVATIONS



FRAMING AND FOOTING PLAN

[illegible]



A ELEVATION

C-12 SCALE: 3/8" = 1'-0"

B ELEVATION

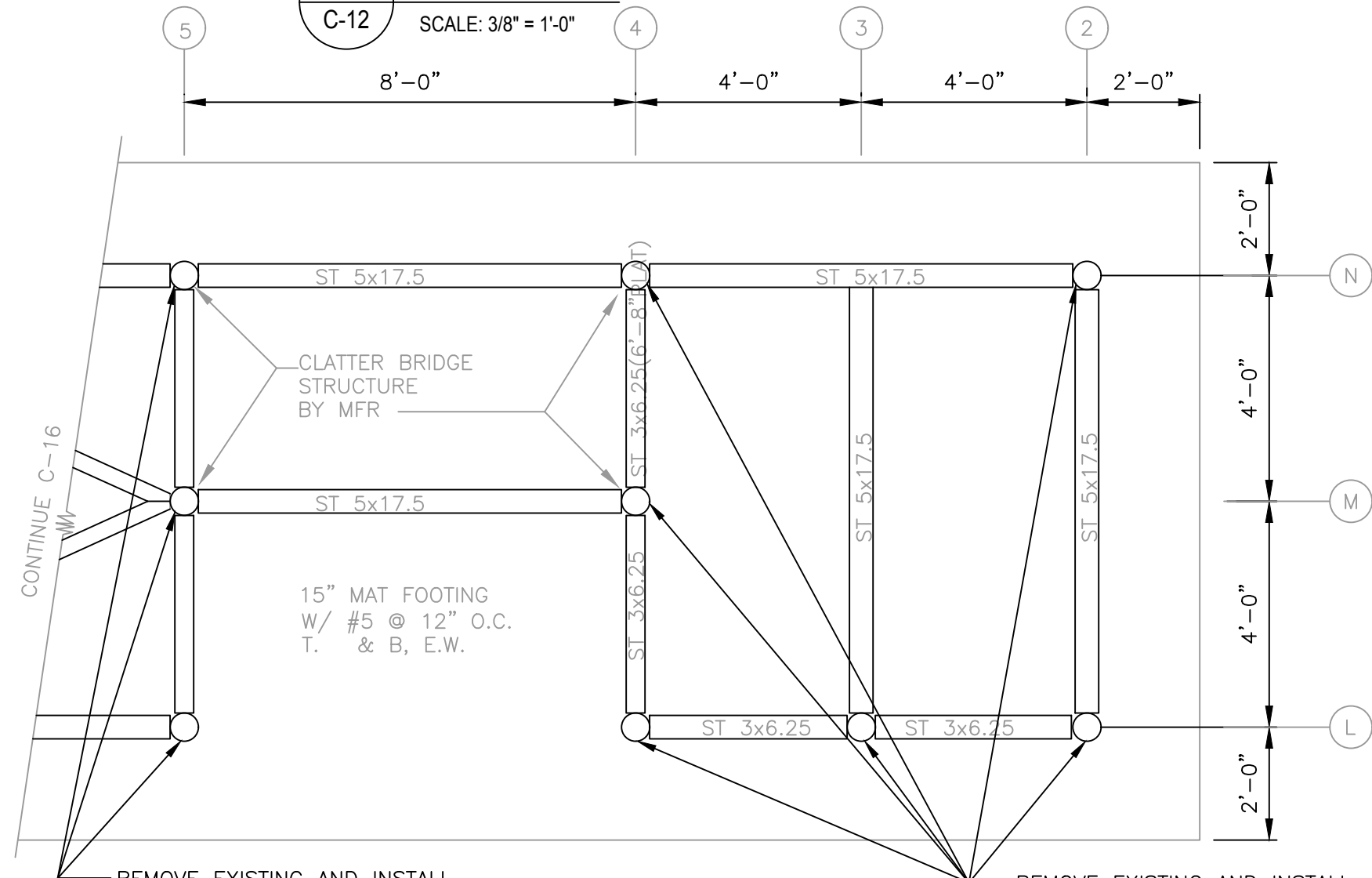
C-12 SCALE: 3/8" = 1'-0"

E ELEVATION

C-12 SCALE: 3/8" = 1'-0"

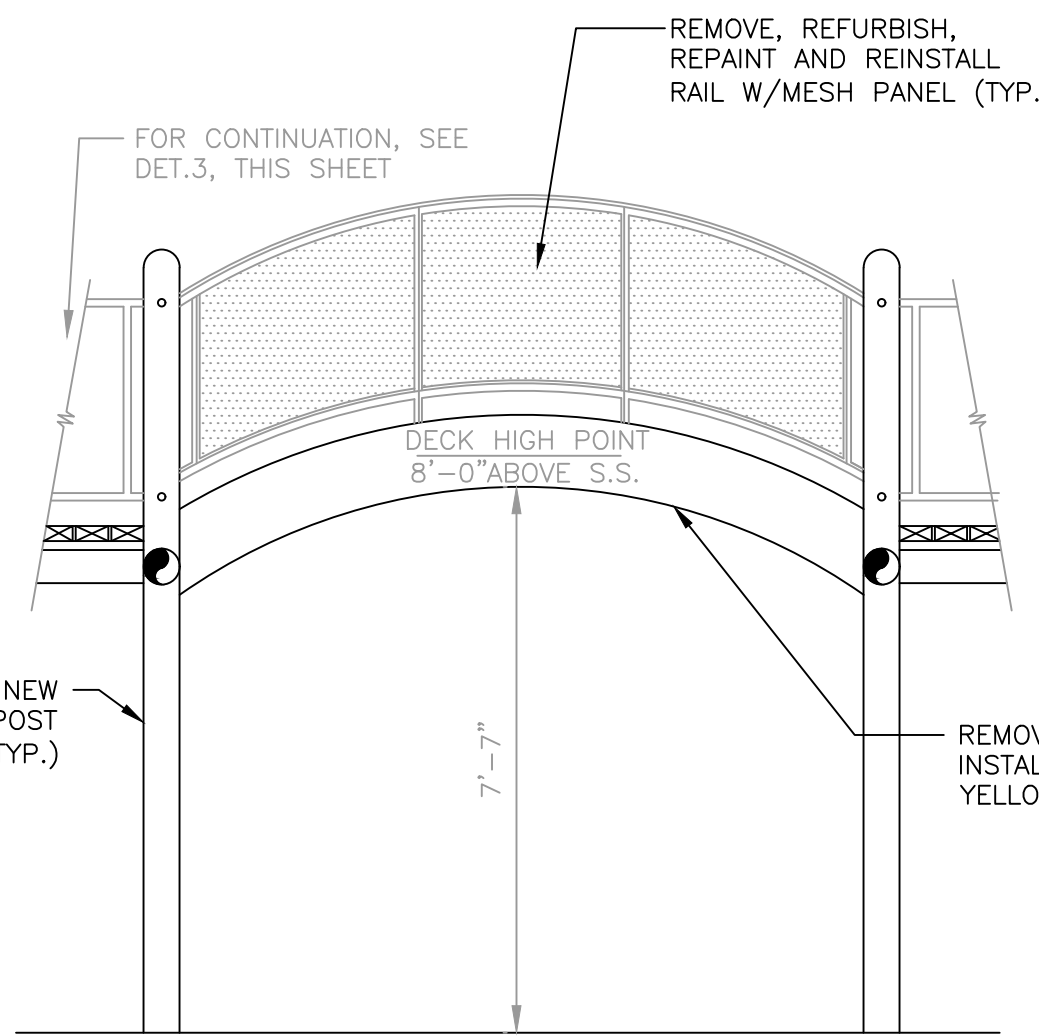
D ELEVATION

C-12 SCALE: 3/8" = 1'-0"



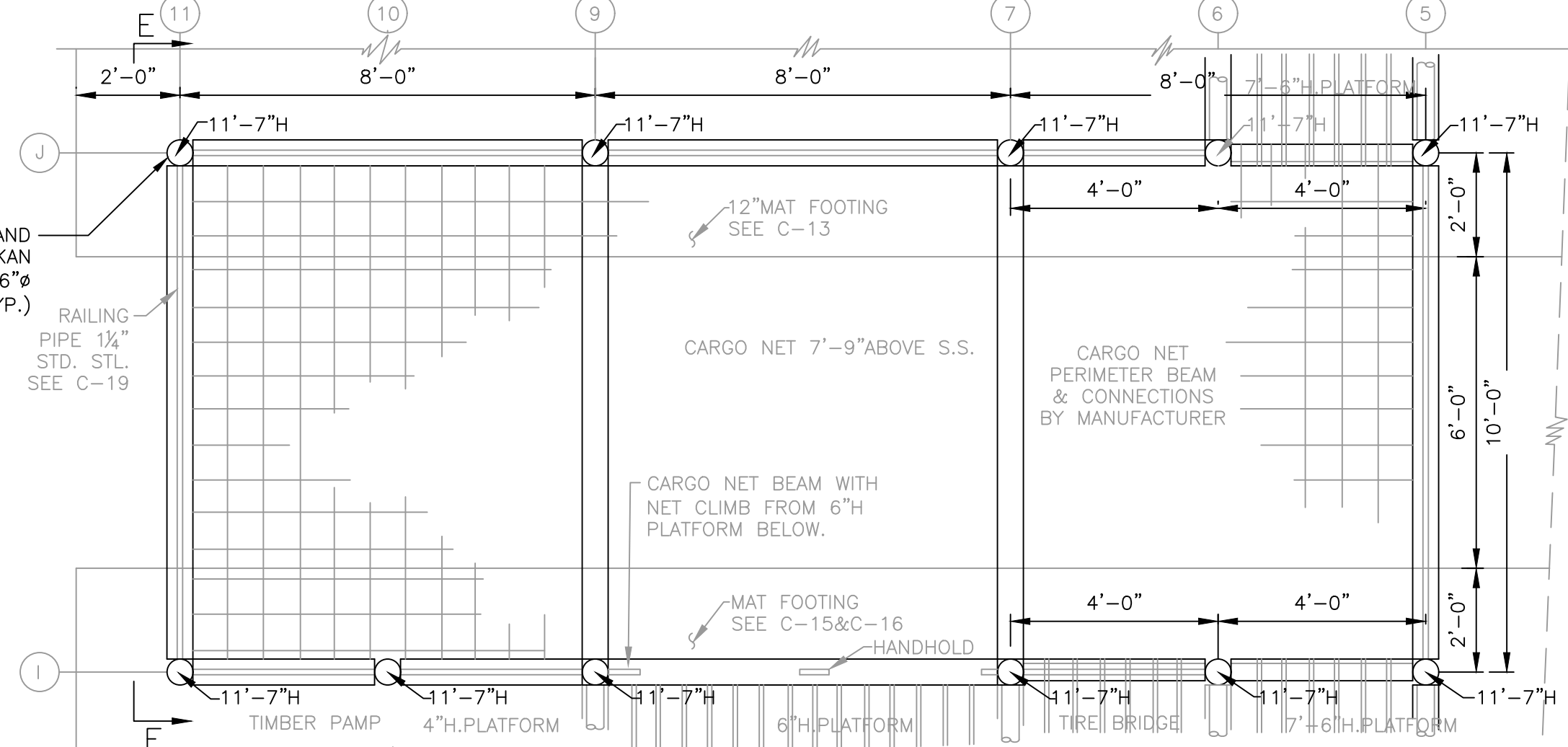
FRAMING & FOOTING PLAN

SCALE: 3/8" = 1'-0"



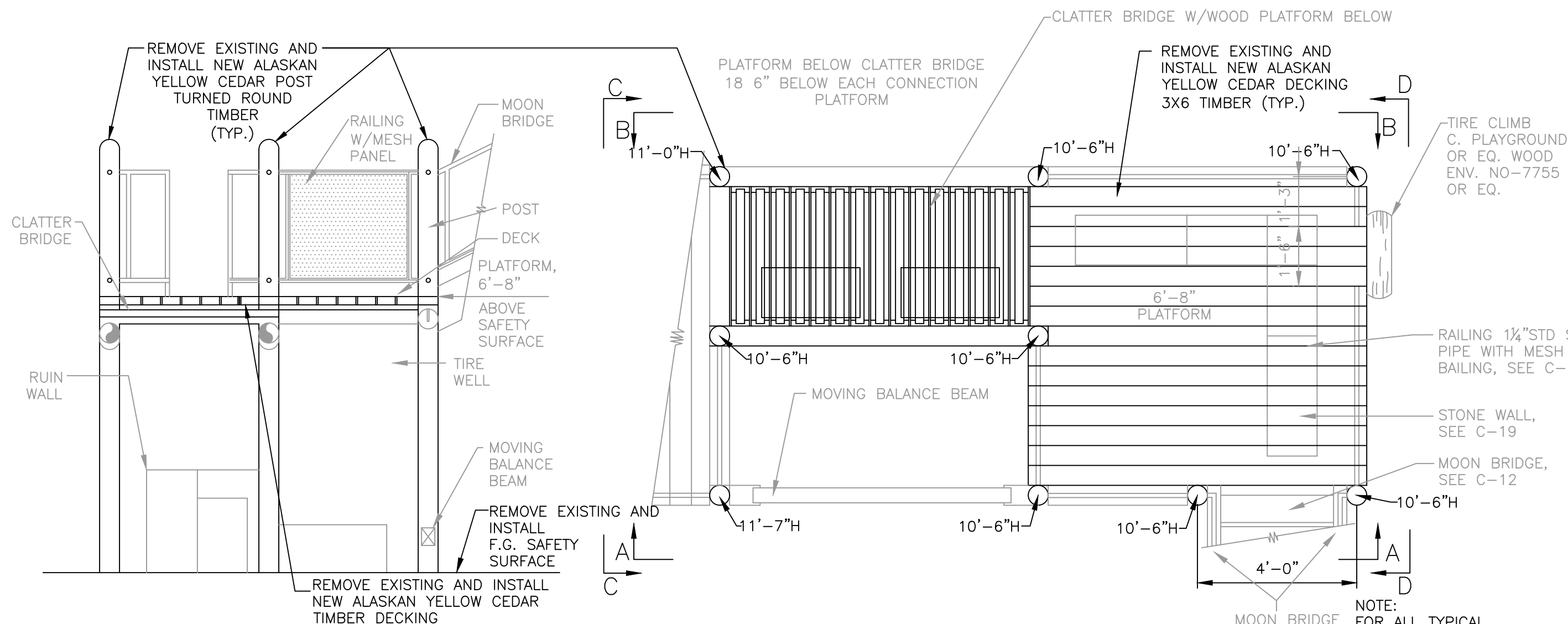
F ELEVATION

C-12 SCALE: 3/8" = 1'-0"



AREA III-C: 5-9 YEAR PLAY UNITS PLAN & FRAMING AND FOOTING PLAN

SCALE: 3/8" = 1'-0"

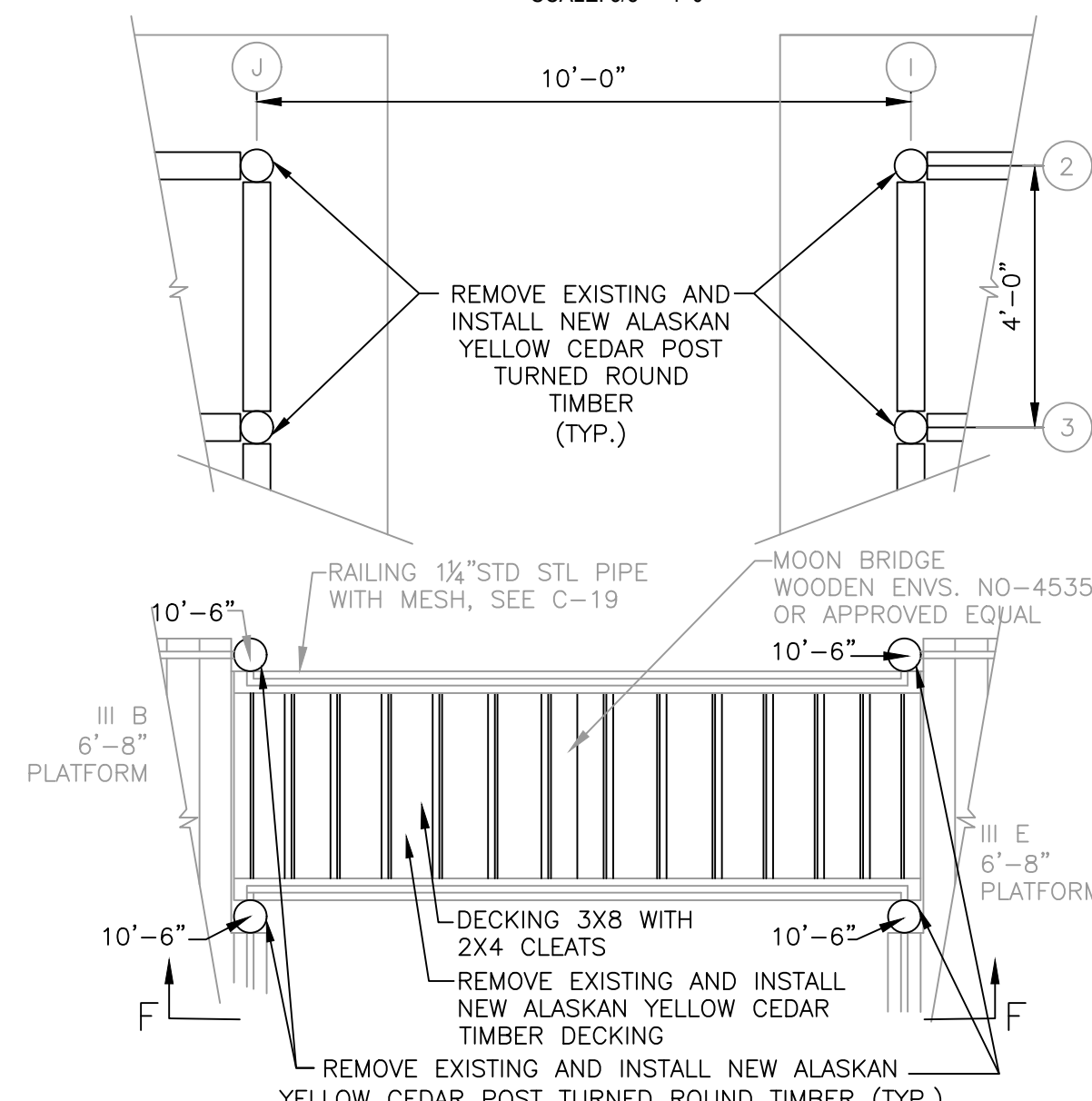


C ELEVATION

C-12 SCALE: 3/8" = 1'-0"

AREA III-B: 5-9 YEAR PLAY UNITS PLAN

SCALE: 3/8" = 1'-0"



AREA III-C: MOON BRIDGE

SCALE: 3/8" = 1'-0"

NOTES:

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- CONTRACTOR SHALL REMOVE AND REPLACE EXISTING CARGO NETS IN KIND INCLUDING PADDING COVERS. COLORS SHOULD MATCH EXISTING.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW OF CONNECTIONS OF NEW WOOD POST TO EXISTING MEMBERS.
- ALL NEW MEMBERS SHALL BE MECHANICALLY FASTENED TO NEW/EXISTING MEMBERS. EACH CONNECTION SHALL HAVE A MINIMUM OF TWO A307 BOLTS WITH STEEL CONNECTION PLATES OR ANGLES WITH A MINIMUM THICKNESS OF 1/2". CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL OF EACH CONNECTION TYPE.

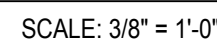
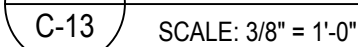
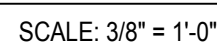
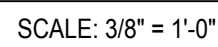
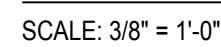
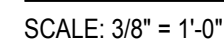
1	7/5/18	ISSUED FOR BID	CFK
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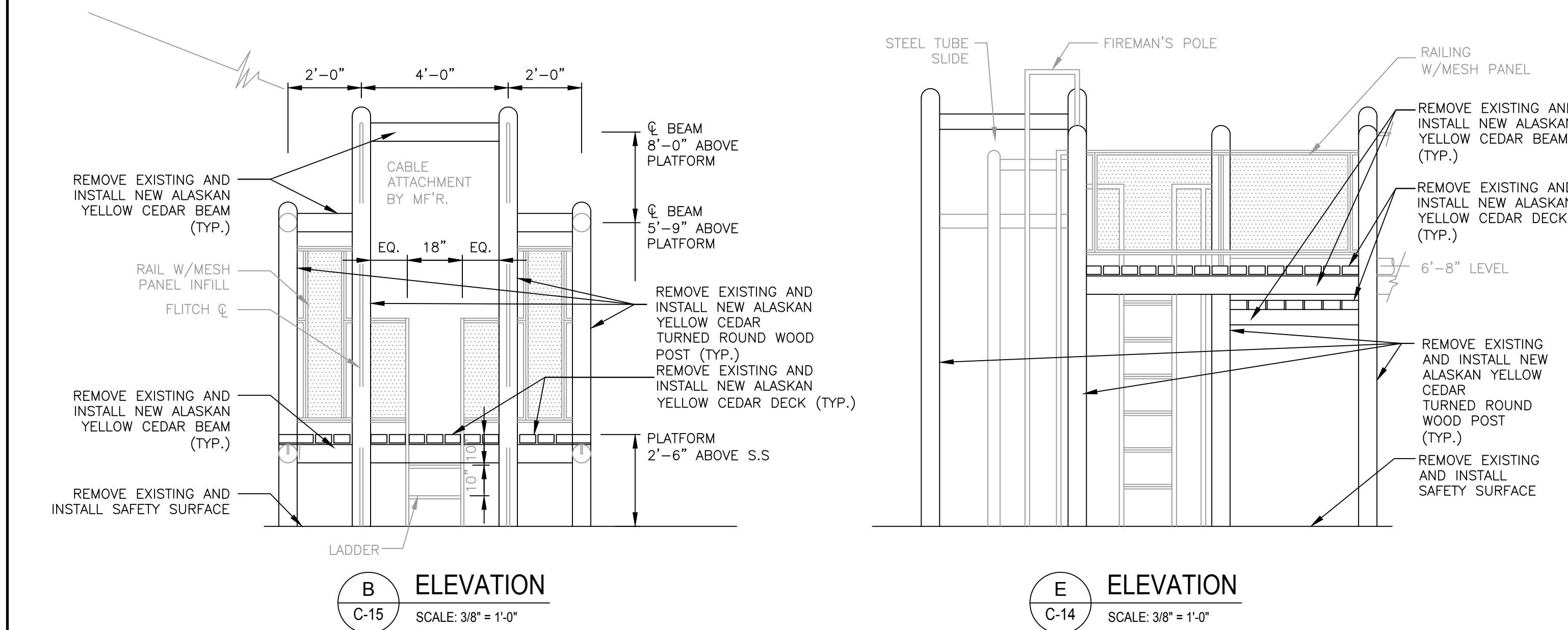
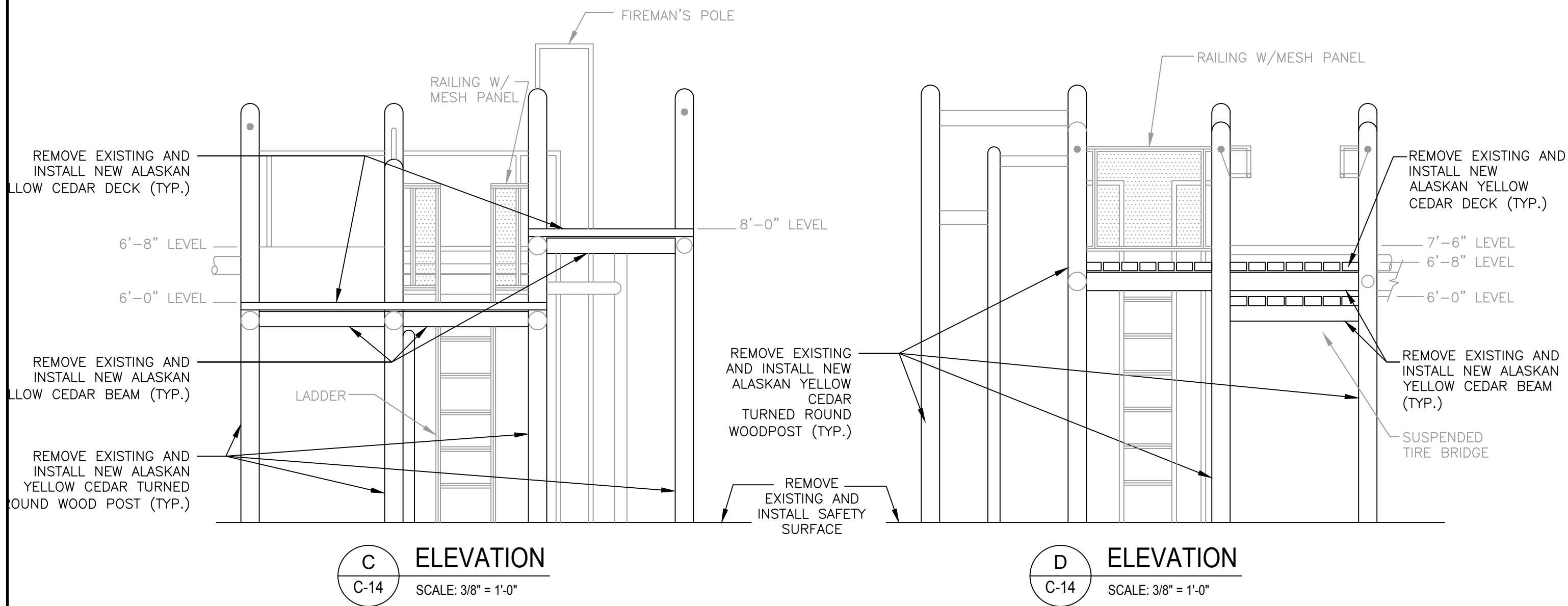
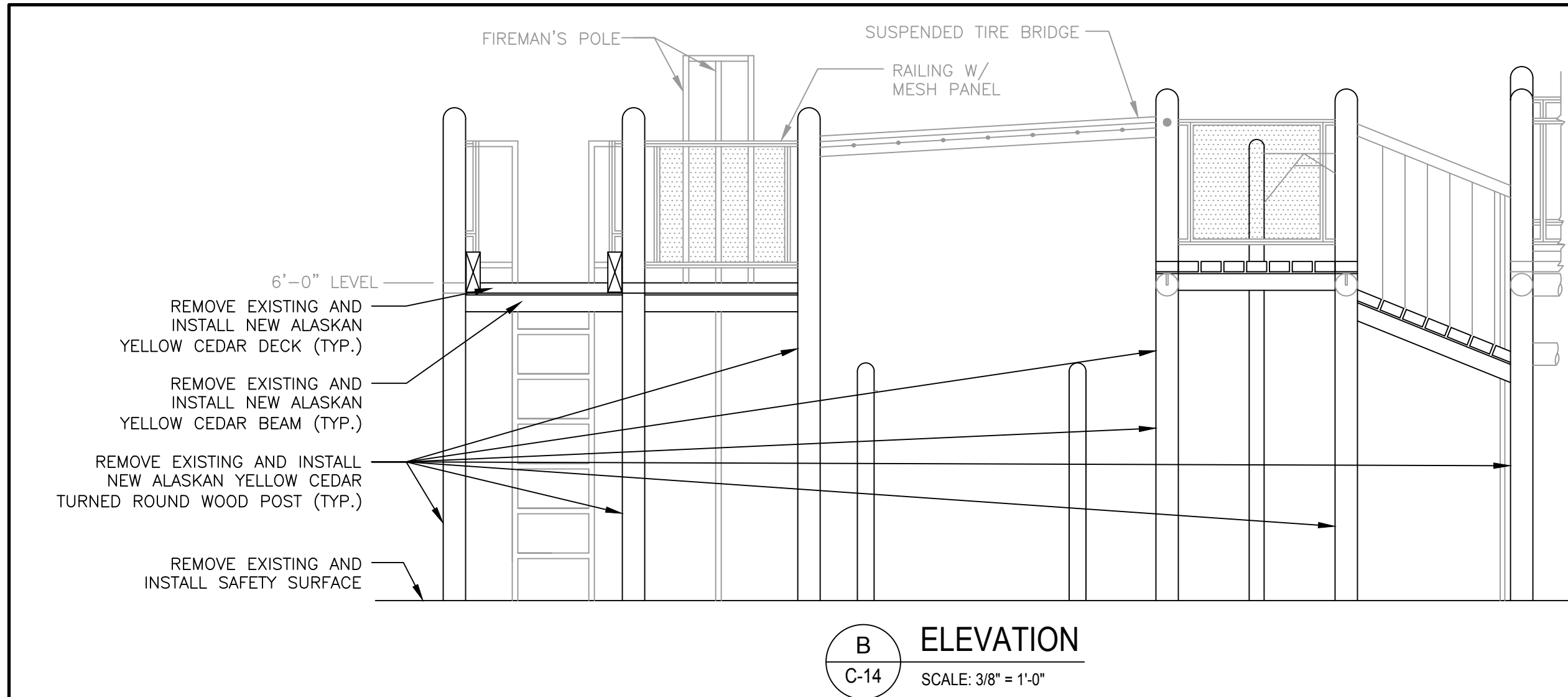
BATTERY PARK CITY AUTHORITY	
BOROUGH OF MANHATTAN	CITY OF NEW YORK
ROCKEFELLER PARK TERRACE PLAYGROUND RECONSTRUCTION	

REMOVALS/RECONSTRUCTION AREA III-B, III-C DETAILS	
PROJECT NO. 2017200282.009	SHEET NO. 12 OF 23
DATE: JULY 2018	DRAWING NO. C-12
SCALE: AS NOTED	



1. STEEL AND OTHER ELEMENTS OF THE EXISTING PLAYGROUND STRUCTURES, EXCLUDING WOOD, ARE TO BE REMOVED, REFURBISHED, RESTORED, REPAIRED, STORED, REPAINTED AND REINSTALLED IN ACCORDANCE WITH THE CONTRACT WORK ITEMS #4, #10, #14 AND #17 RESPECTIVELY.
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4. DRAWINGS OF PLAYGROUND STRUCTURES INCLUDED HEREIN MAY NOT ACCURATELY REFLECT ALL CURRENT CONDITIONS AND ELEMENTS AT THE SITE. THE DETAILS HEREIN ARE PROVIDED FOR GENERAL INFORMATION. BID PRICE FOR CONTRACT WORK SHALL BE BASED ON ACTUAL CONDITIONS TO BE DETERMINED UNDER ITEMS #4 AND #5.
5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW OF CONNECTIONS OF NEW WOOD POST TO EXISTING MEMBERS.
6. ALL NEW MEMBERS SHALL BE MECHANICALLY FASTENED TO NEW/EXISTING MEMBERS. EACH CONNECTION SHALL HAVE A MINIMUM OF TWO A307 BOLTS WITH STEEL CONNECTION PLATES OR ANGLES WITH A MINIMUM THICKNESS OF $\frac{1}{4}$ ". CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL OF EACH CONNECTION TYPE.

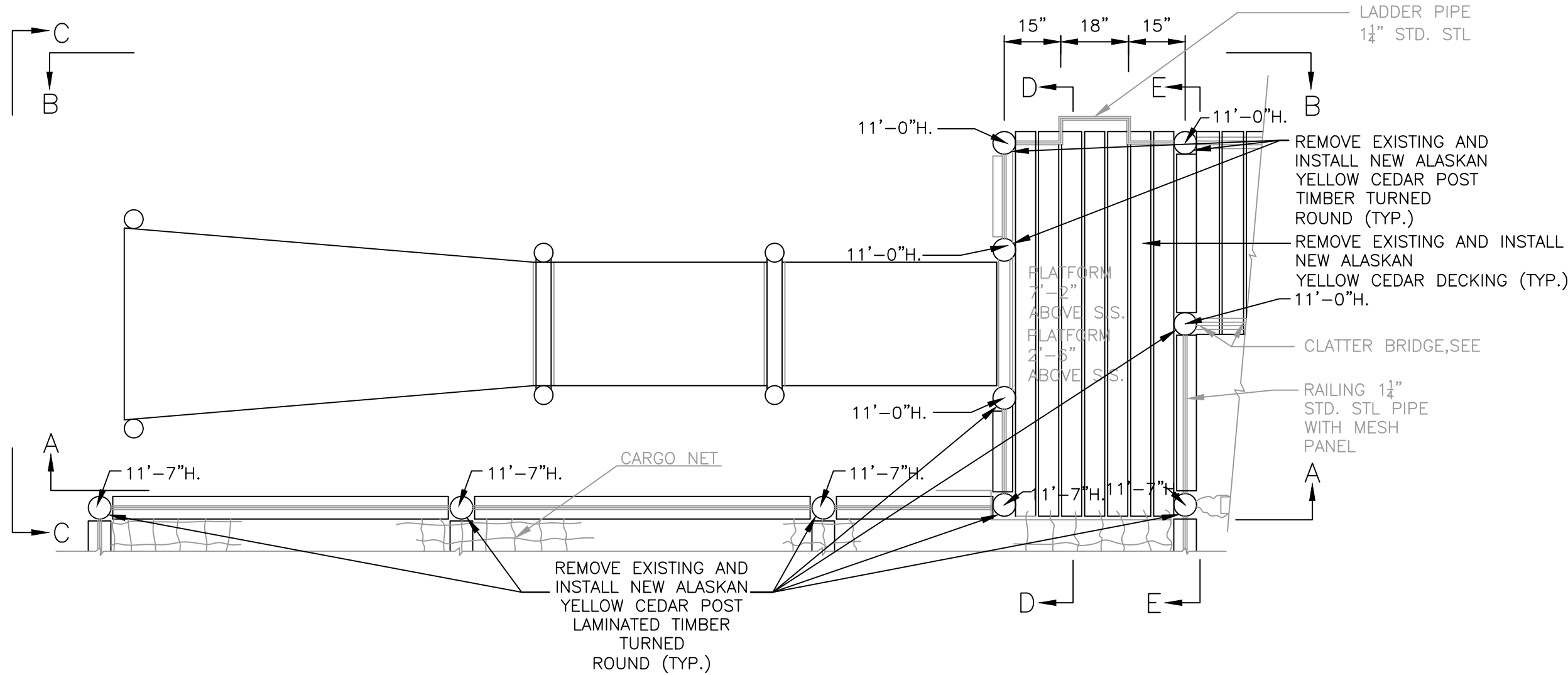
PROJECT NO. 2017200282.009	SHEET NO. 14 OF 23
DATE: JULY 2018	DRAWING NO. C-14
SCALE: AS NOTED	



- NOTES:**
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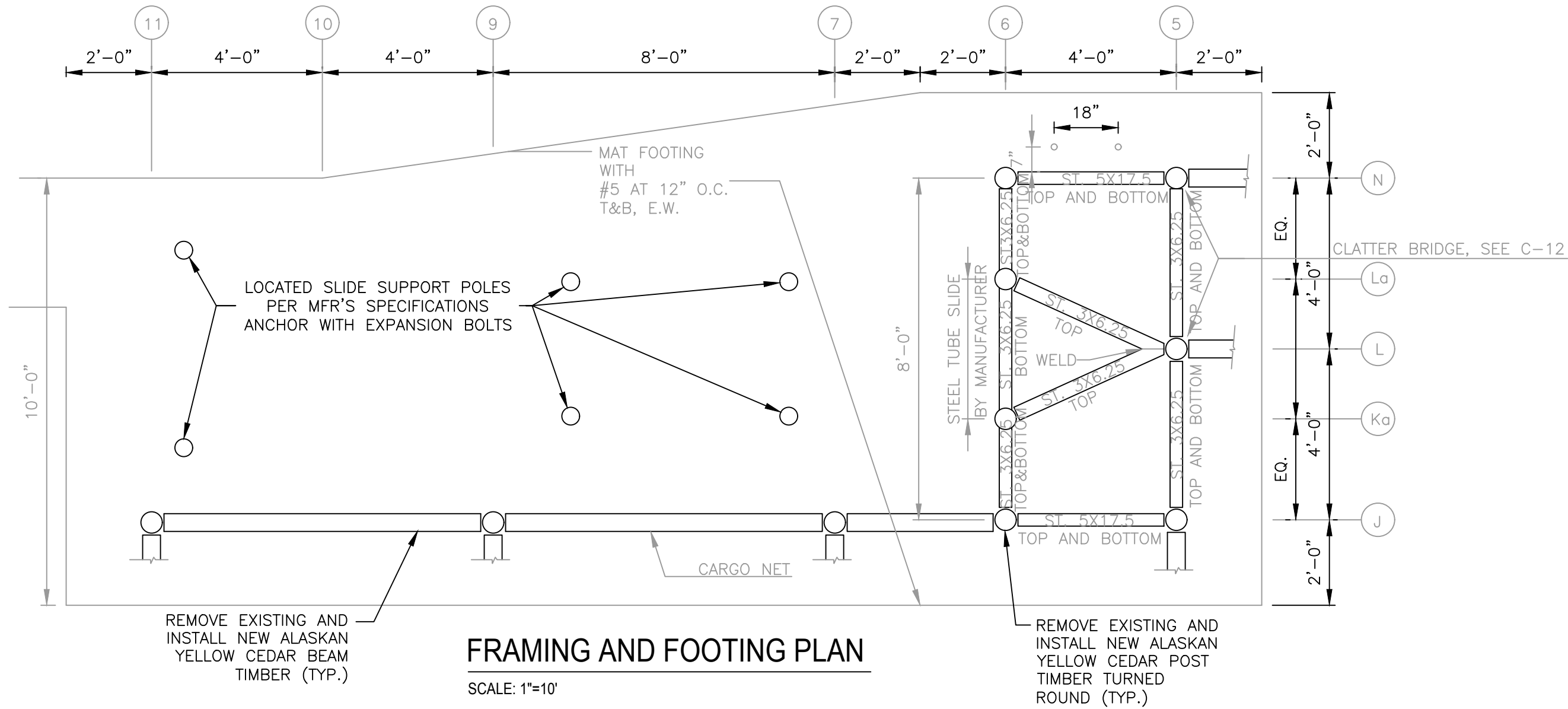
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AREA III-A: 5-9 YEAR PLAY UNIT PLAN

SCALE: 1"=10'

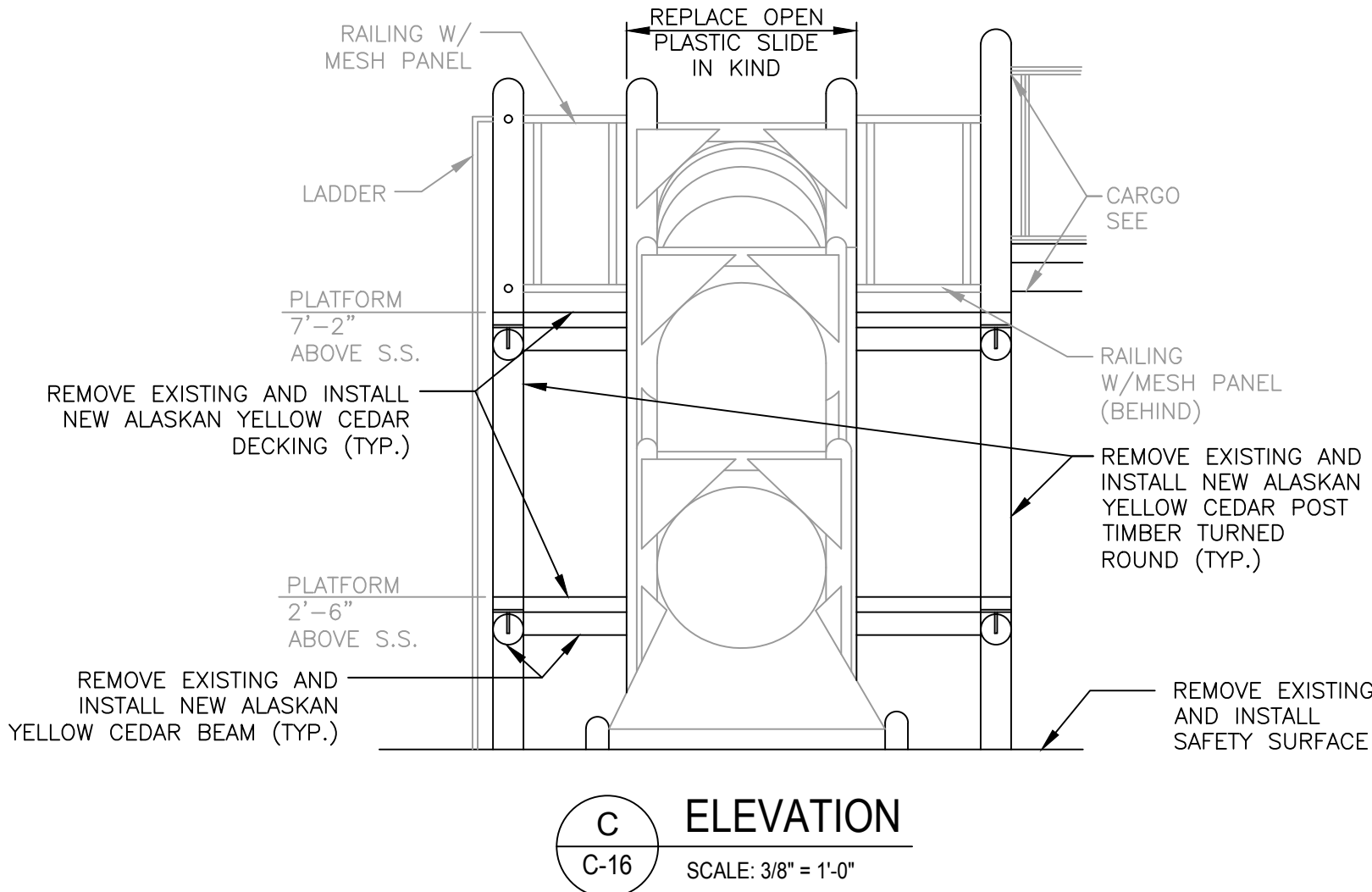


FRAMING AND FOOTING PLAN

SCALE: 1"=10'

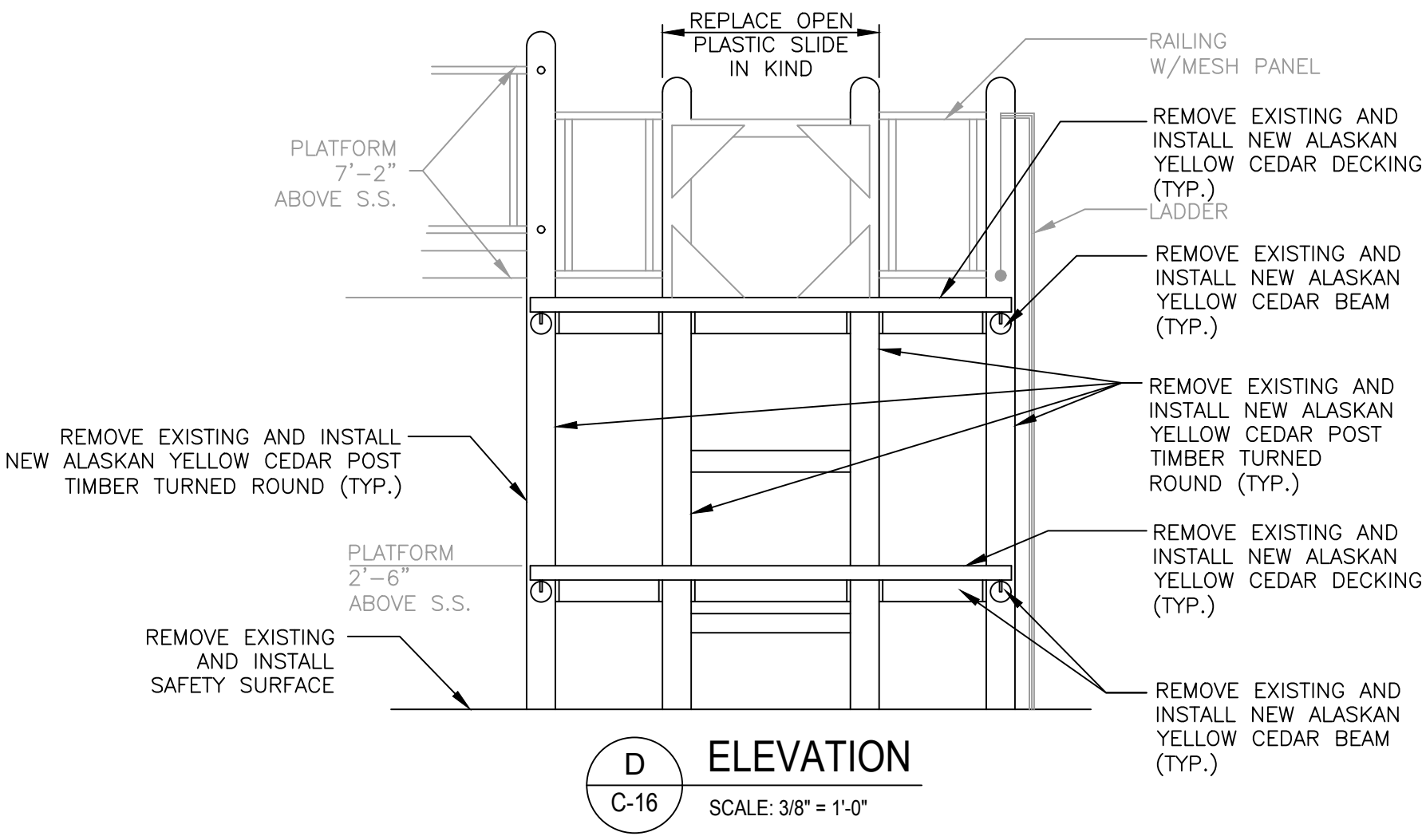
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- STEEL AND OTHER ELEMENTS OF THE EXISTING PLAYGROUND STRUCTURES, EXCLUDING WOOD, ARE TO BE REMOVED, REFURBISHED, RESTORED, REPAIRED, STORED, REPAINTED AND REINSTALLED IN ACCORDANCE WITH THE CONTRACT WORK ITEMS #4, #10, #14 AND #17 RESPECTIVELY.
- TIMBER POSTS, BEAMS, DECKING, STEPS, BRIDGE PLANKS, AND OTHER WOODEN ELEMENTS OF THE ENTIRE PLAYGROUND SITE SHALL BE REPLACED IN-KIND IN ACCORDANCE WITH CONTRACT WORK ITEMS #4, #8, #9, #15, AND #16.
- EXISTING STEEL SLEEVES WITH BASE PLATES FOR TIMBER POSTS SHALL REMAIN IN-PLACE, AND BE PROTECTED FOR RE-USE. REPLACEMENT OF EXISTING STEEL SLEEVES OR BASE PLATE ANCHOR BOLTS SHALL BE AS ORDERED BY THE ENGINEER UNDER CONTRACT UNIT PRICE ITEMS #1 & #2. COST FOR EXPOSING EXISTING SLEEVES AND BASE PLATES FOR INSPECTION BY THE ENGINEER SHALL BE INCLUDED IN BID PRICE FOR ITEM #8.
- DRAWINGS OF PLAYGROUND STRUCTURES INCLUDED HEREIN MAY NOT ACCURATELY REFLECT ALL CURRENT CONDITIONS AND ELEMENTS AT THE SITE. THE DETAILS HEREIN ARE PROVIDED FOR GENERAL INFORMATION. BID PRICE FOR CONTRACT WORK SHALL BE BASED ON ACTUAL CONDITIONS TO BE DETERMINED UNDER ITEMS #4 AND #5.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW OF CONNECTIONS OF NEW WOOD POST TO EXISTING MEMBERS.
- ALL NEW MEMBERS SHALL BE MECHANICALLY FASTENED TO NEW/EXISTING MEMBERS. EACH CONNECTION SHALL HAVE A MINIMUM OF TWO A307 BOLTS WITH STEEL CONNECTION PLATES OR ANGLES WITH A MINIMUM THICKNESS OF 1/2". CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL OF EACH CONNECTION TYPE.



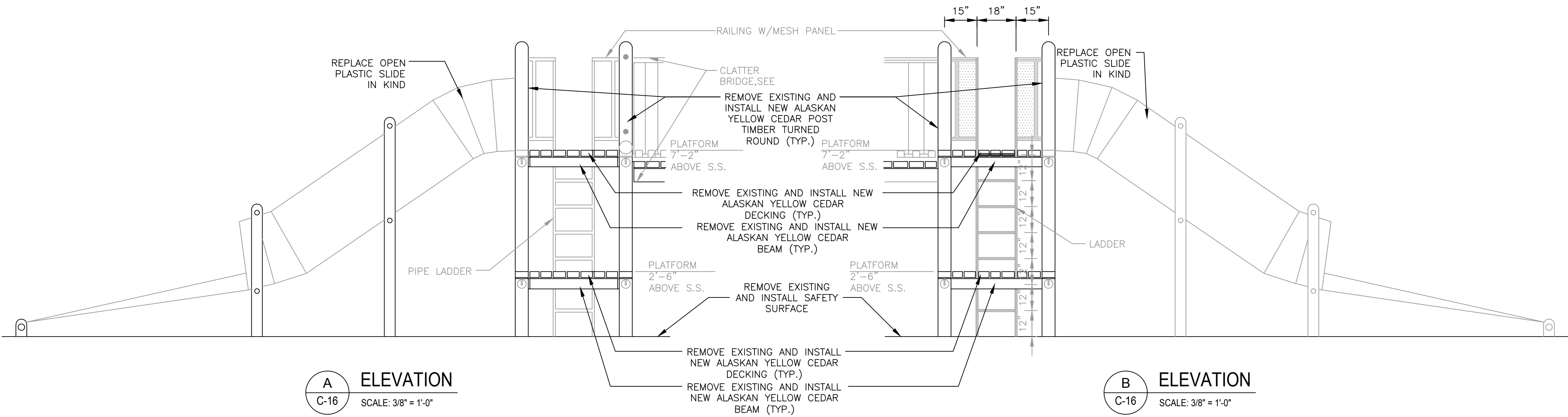
C ELEVATION

SCALE: 3/8" = 1'-0"



D ELEVATION

SCALE: 3/8" = 1'-0"

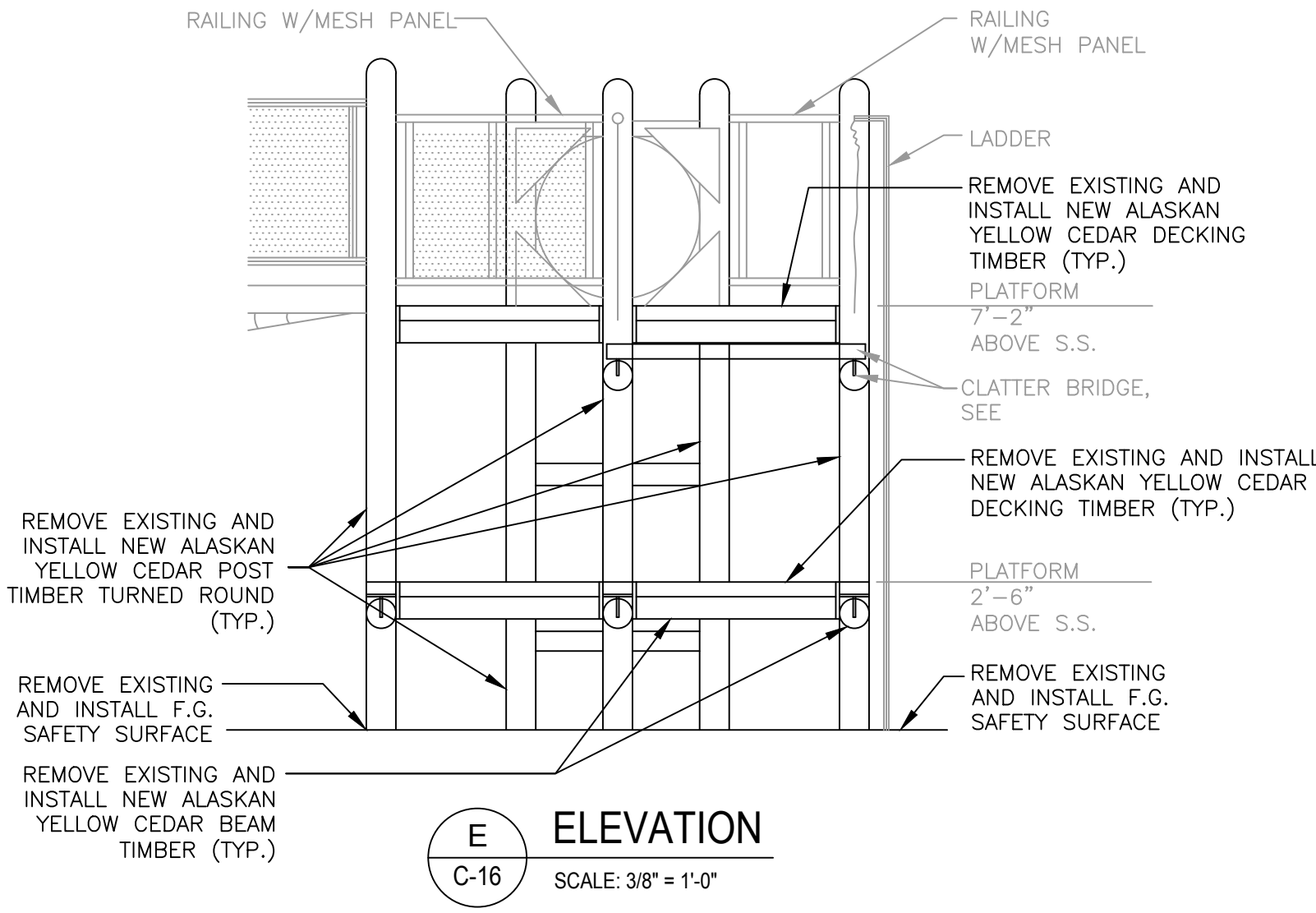


A ELEVATION

SCALE: 3/8" = 1'-0"

B ELEVATION

SCALE: 3/8" = 1'-0"



E ELEVATION

SCALE: 3/8" = 1'-0"

1	7/5/18	ISSUED FOR BID	CFK
NO.	DATE	REVISION	INT.

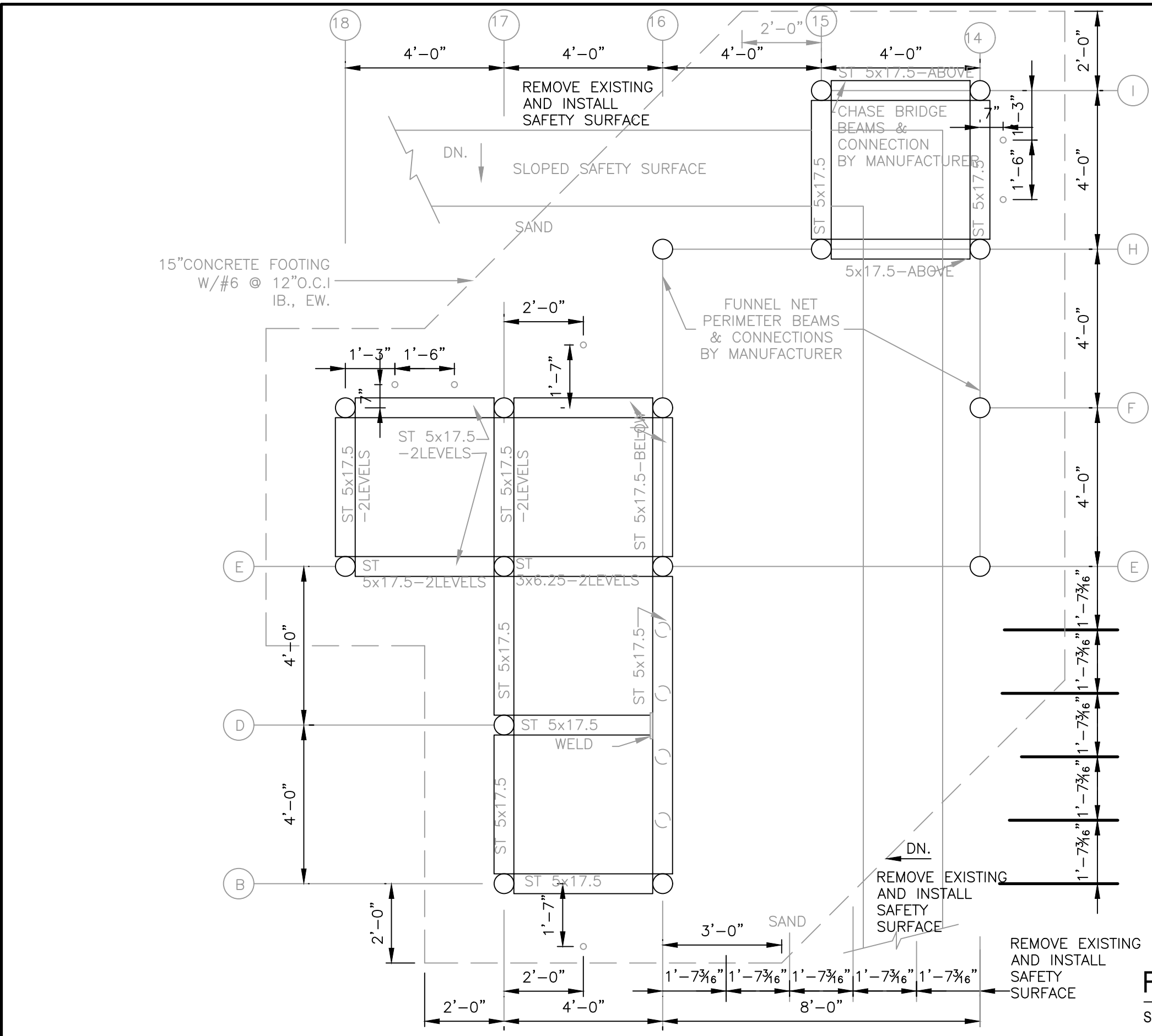
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.	
DESIGNED BY	MDC
CHECKED BY	CFK



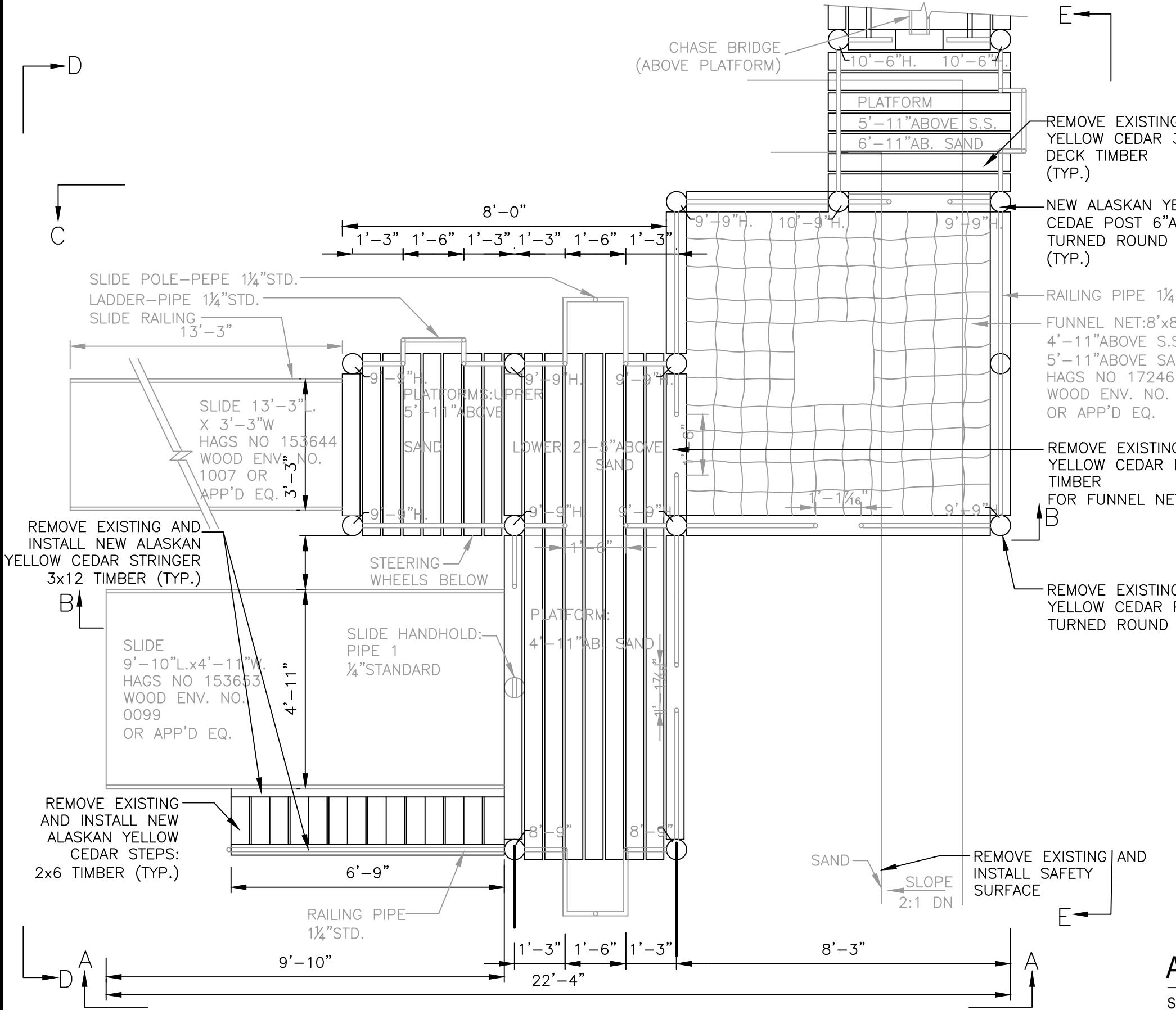
BATTERY PARK CITY AUTHORITY	
BOROUGH OF MANHATTAN	CITY OF NEW YORK
ROCKEFELLER PARK TERRACE PLAYGROUND RECONSTRUCTION	

REMOVALS/RECONSTRUCTION
AREA III-A DETAILS

PROJECT NO. 2017200282.009	SHEET NO. 16 OF 23
DATE: JULY 2018	DRAWING NO. C-16
SCALE: AS NOTED	

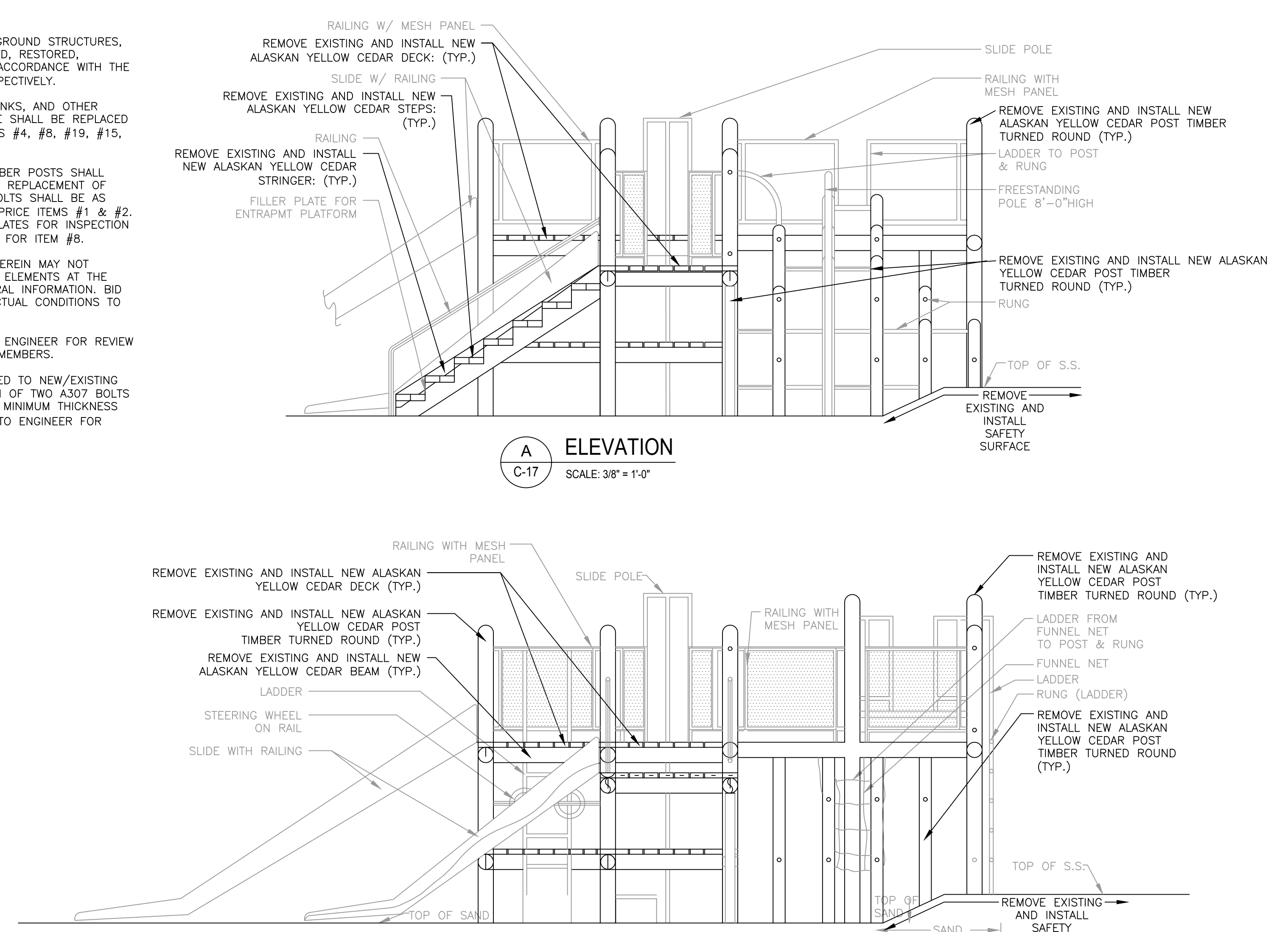


FRAMING AND FOOTING PLAN
SCALE: 3/8" = 1'-0"

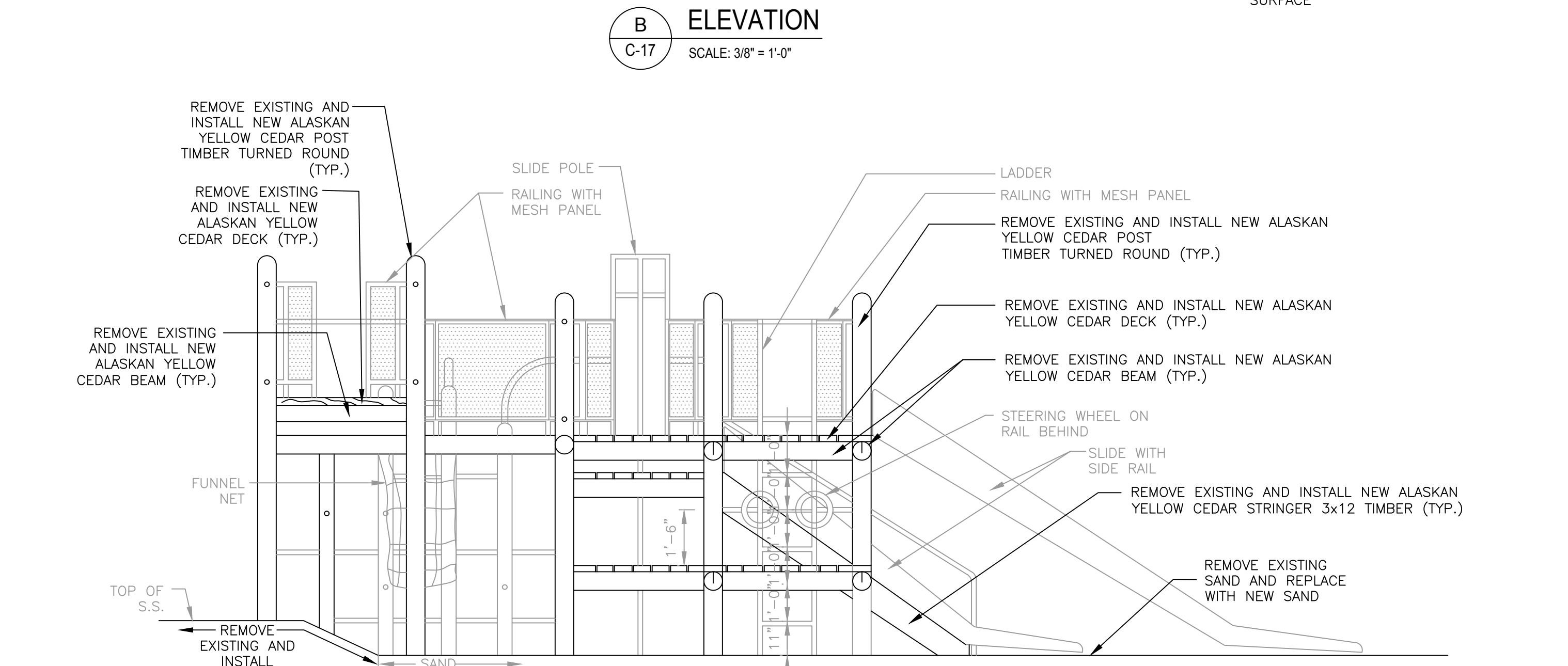


AREA II-B: PRESCHOOL PLAY UNITS
SCALE: 3/8" = 1'-0"

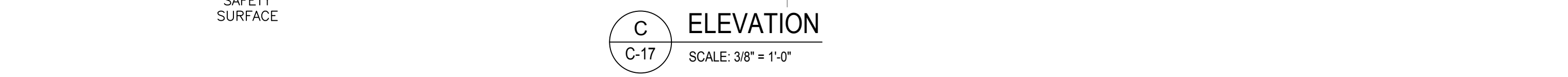
- NOTES:**
- STEEL AND OTHER ELEMENTS OF THE EXISTING PLAYGROUND STRUCTURES, EXCLUDING WOOD, ARE TO BE REMOVED, REFURBISHED, RESTORED, REPAIRED, STORED, REPAINTED AND REINSTALLED IN ACCORDANCE WITH THE CONTRACT WORK ITEMS #4, #10, #14 AND #17 RESPECTIVELY.
 - TIMBER POSTS, BEAMS, DECKING, STEPS, BRIDGE PLANKS, AND OTHER WOODEN ELEMENTS OF THE ENTIRE PLAYGROUND SITE SHALL BE REPLACED IN-KIND IN ACCORDANCE WITH CONTRACT WORK ITEMS #4, #8, #19, #15, AND #16.
 - EXISTING STEEL SLEEVES WITH BASE PLATES FOR TIMBER POSTS SHALL REMAIN IN-PLACE, AND BE PROTECTED FOR RE-USE. REPLACEMENT OF EXISTING STEEL SLEEVES OR BASE PLATE ANCHOR BOLTS SHALL BE AS ORDERED BY THE ENGINEER UNDER CONTRACT UNIT PRICE ITEMS #1 & #2. COST FOR EXPOSING EXISTING SLEEVES AND BASE PLATES FOR INSPECTION BY THE ENGINEER SHALL BE INCLUDED IN BID PRICE FOR ITEM #8.
 - DRAWINGS OF PLAYGROUND STRUCTURES INCLUDED HEREIN MAY NOT ACCURATELY REFLECT ALL CURRENT CONDITIONS AND ELEMENTS AT THE SITE. THE DETAILS HEREIN ARE PROVIDED FOR GENERAL INFORMATION. BID PRICE FOR CONTRACT WORK SHALL BE BASED ON ACTUAL CONDITIONS TO BE DETERMINED UNDER ITEMS #4 AND #5.
 - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW OF CONNECTIONS OF NEW WOOD POST TO EXISTING MEMBERS.
 - ALL NEW MEMBERS SHALL BE MECHANICALLY FASTENED TO NEW/EXISTING MEMBERS. EACH CONNECTION SHALL HAVE A MINIMUM OF TWO A307 BOLTS WITH STEEL CONNECTION PLATES OR ANGLES WITH A MINIMUM THICKNESS OF 1/2". CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL OF EACH CONNECTION TYPE.



A ELEVATION
C-17
SCALE: 3/8" = 1'-0"

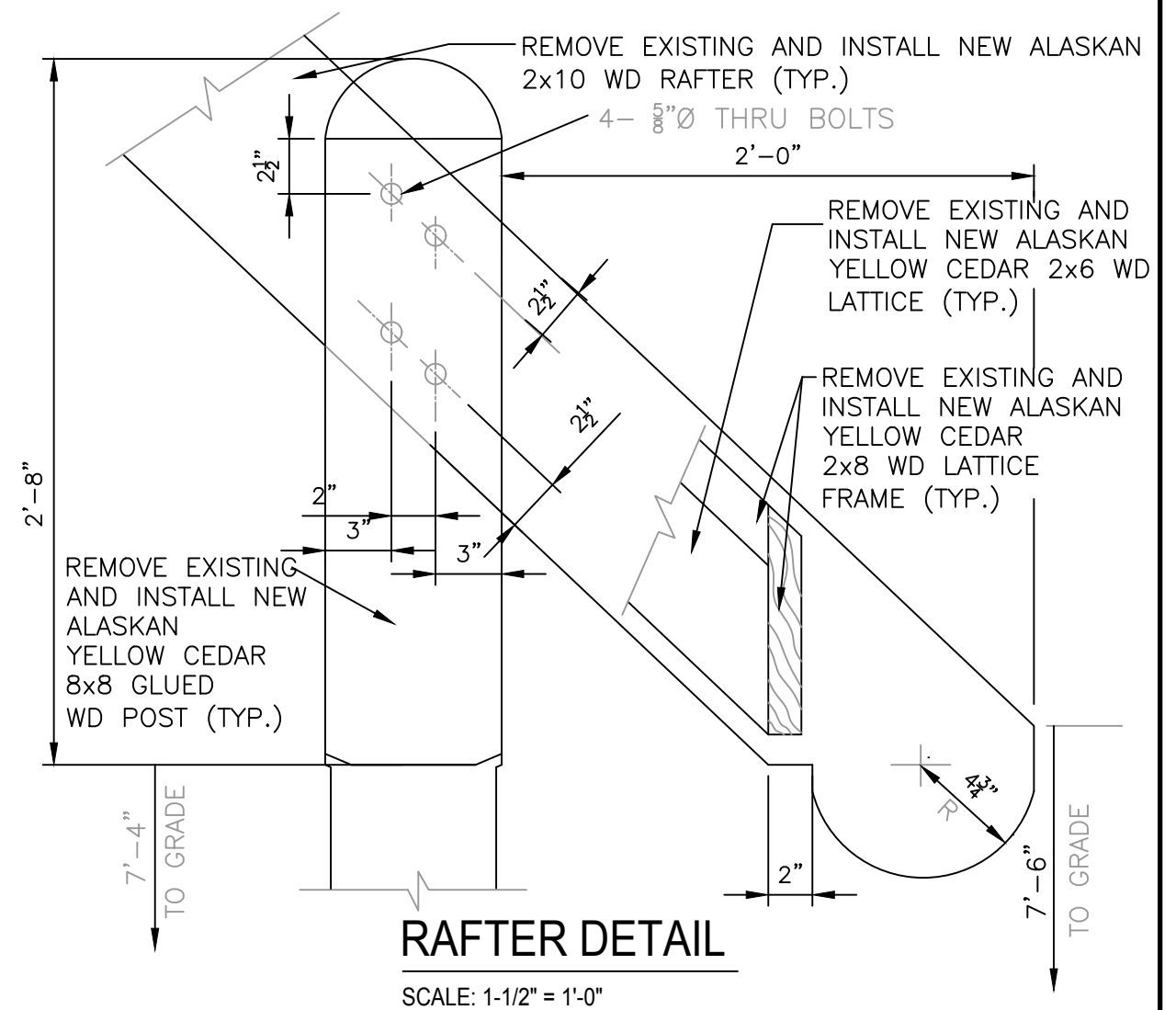
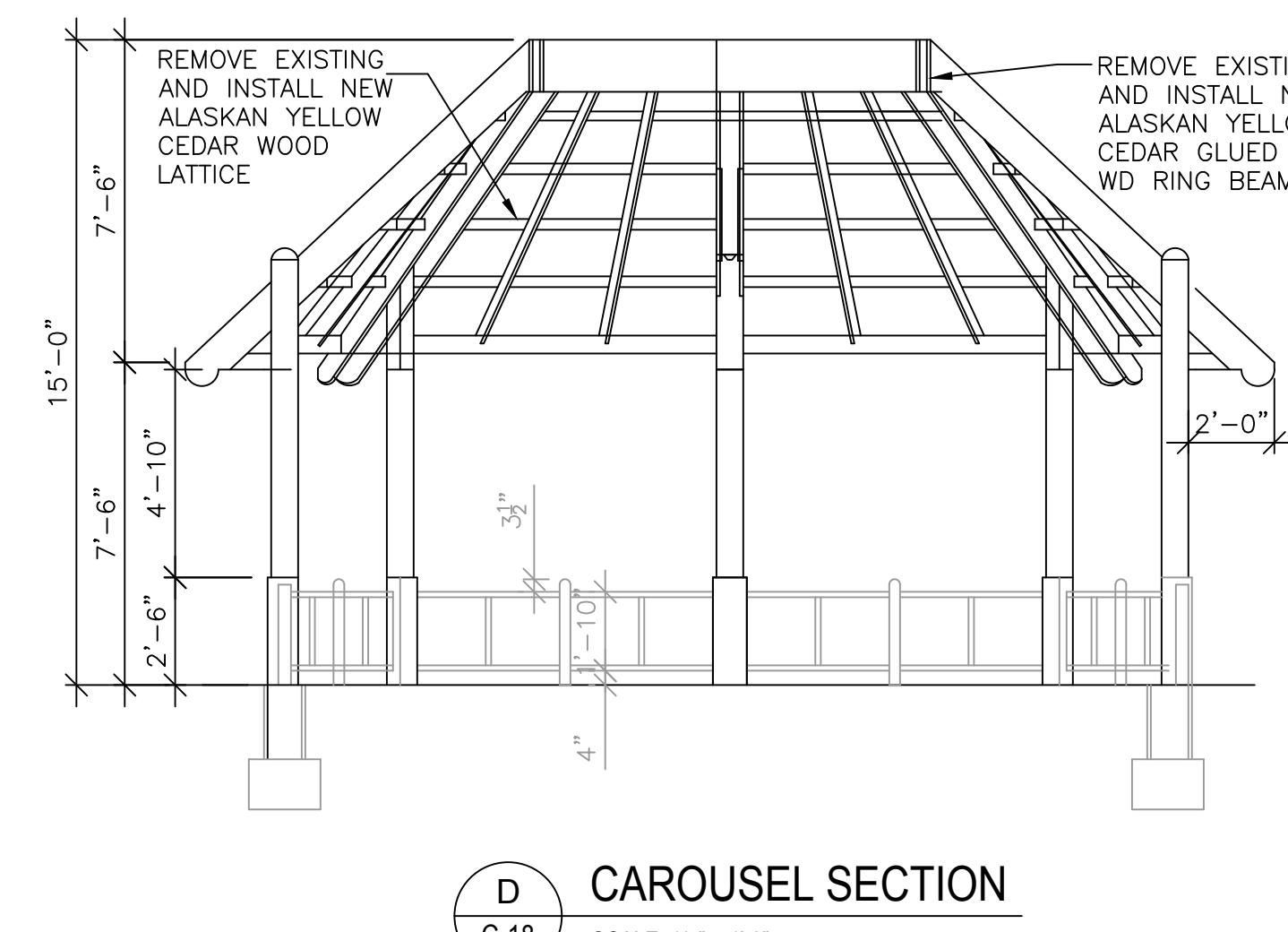
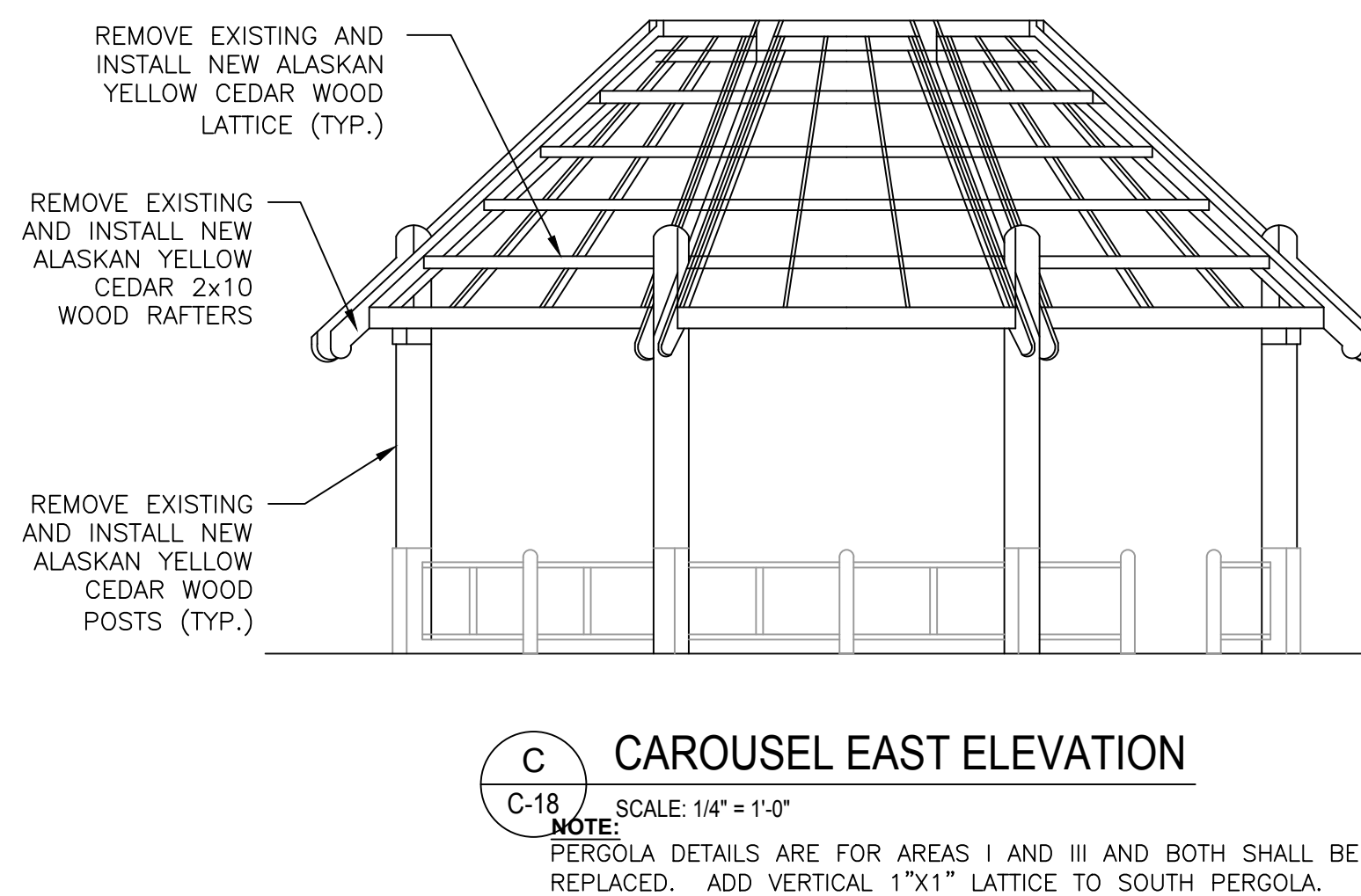
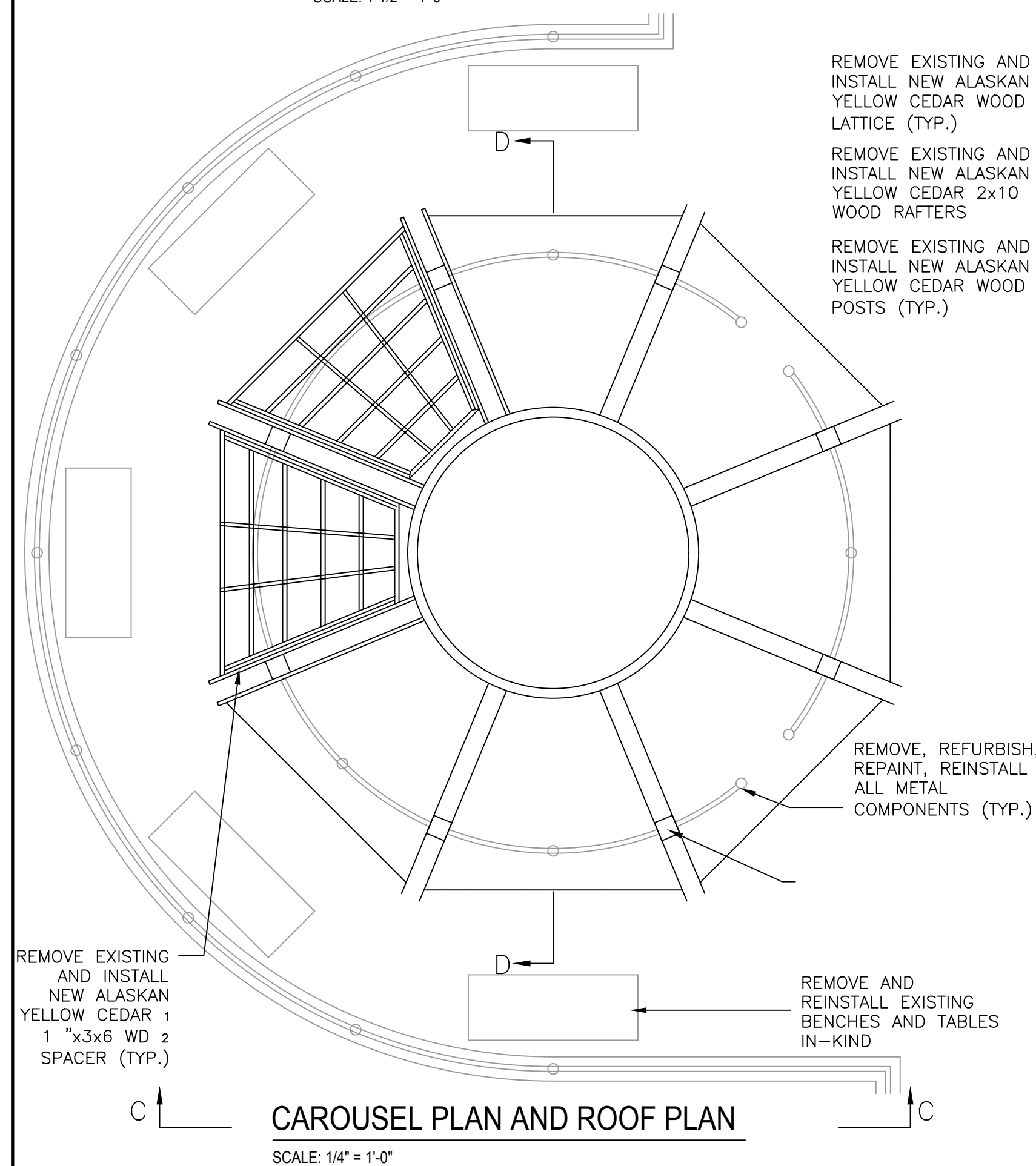
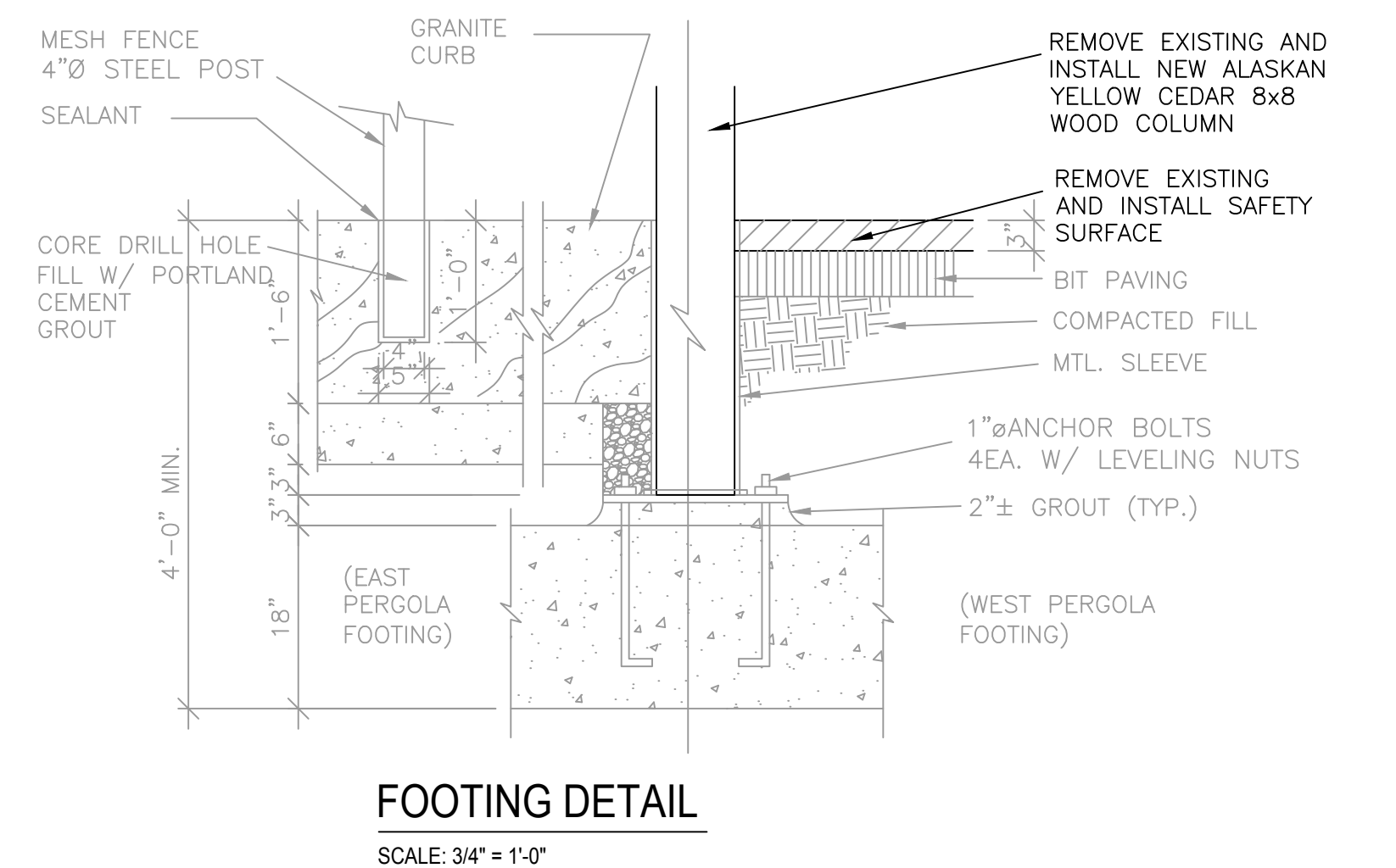
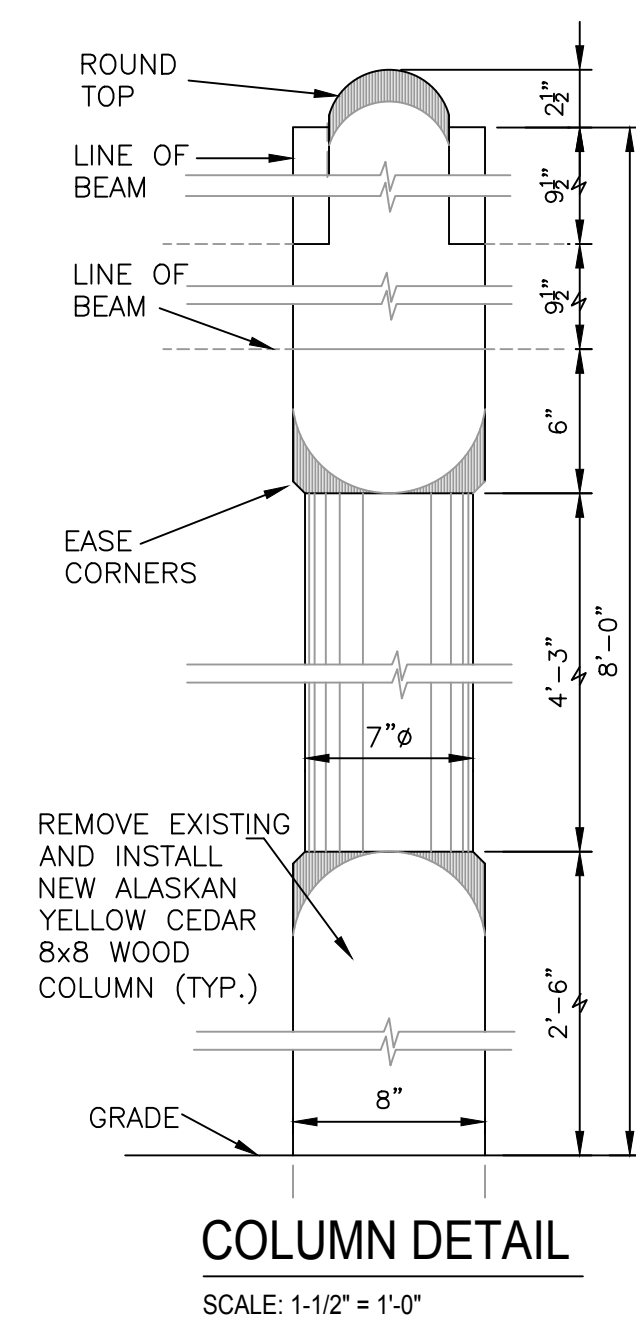
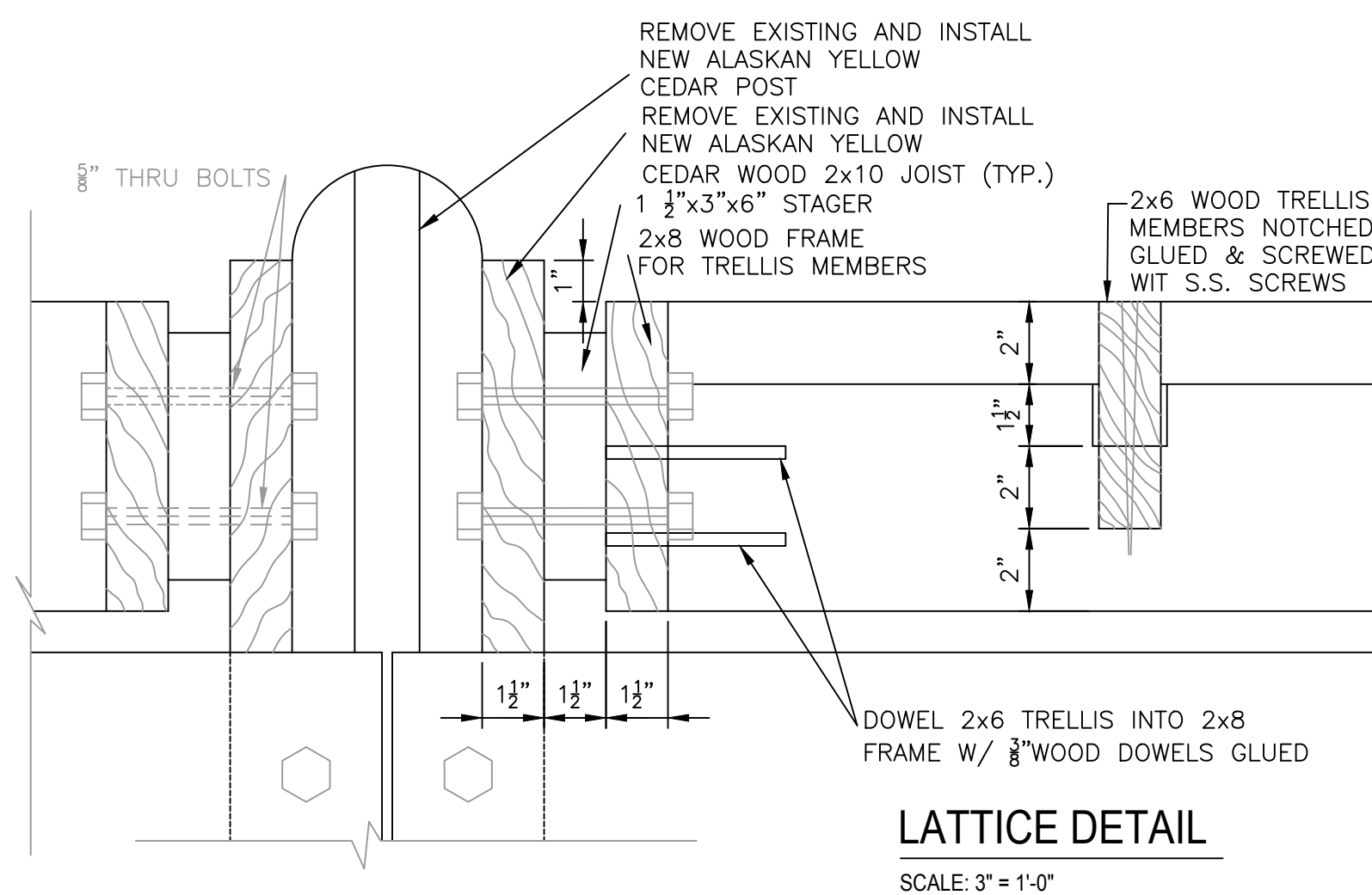
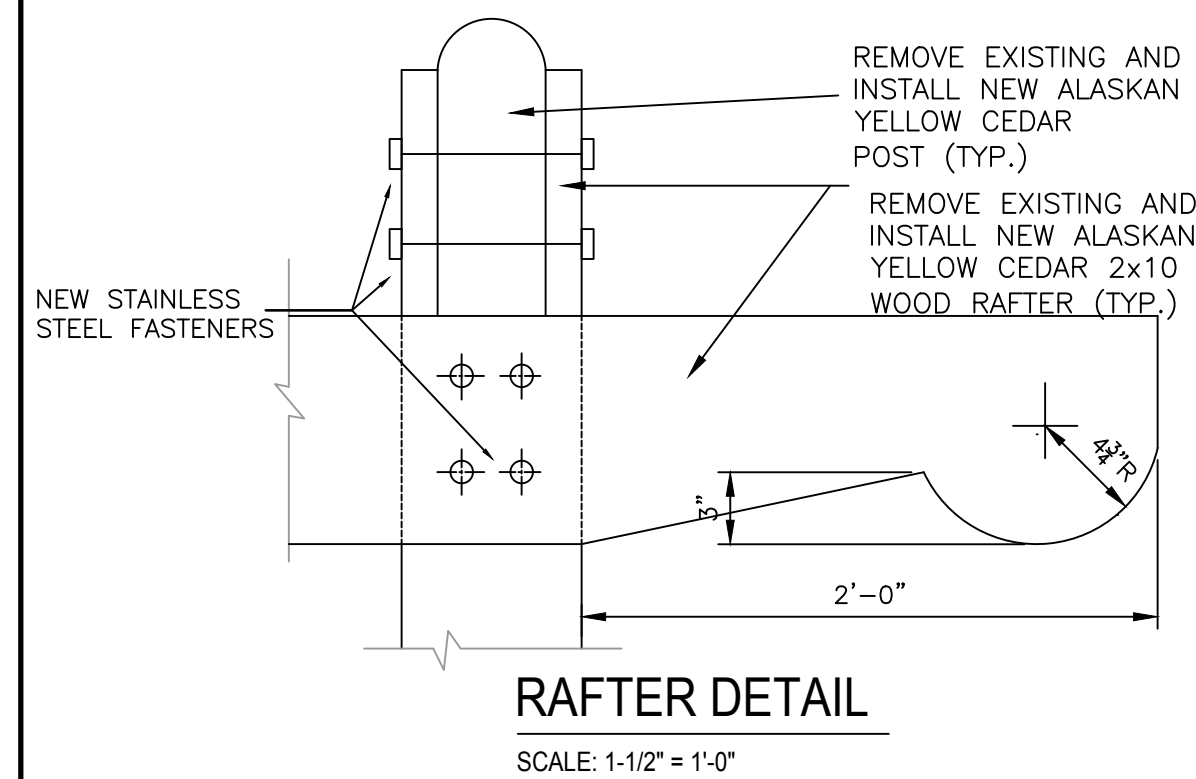
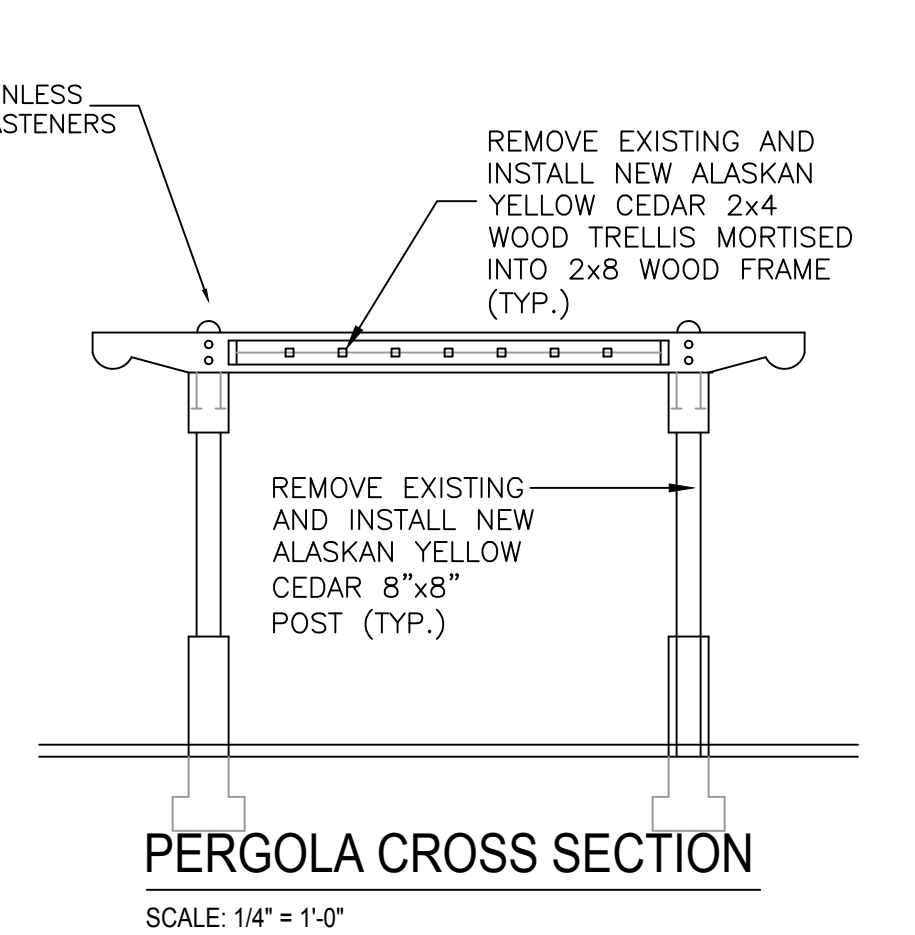
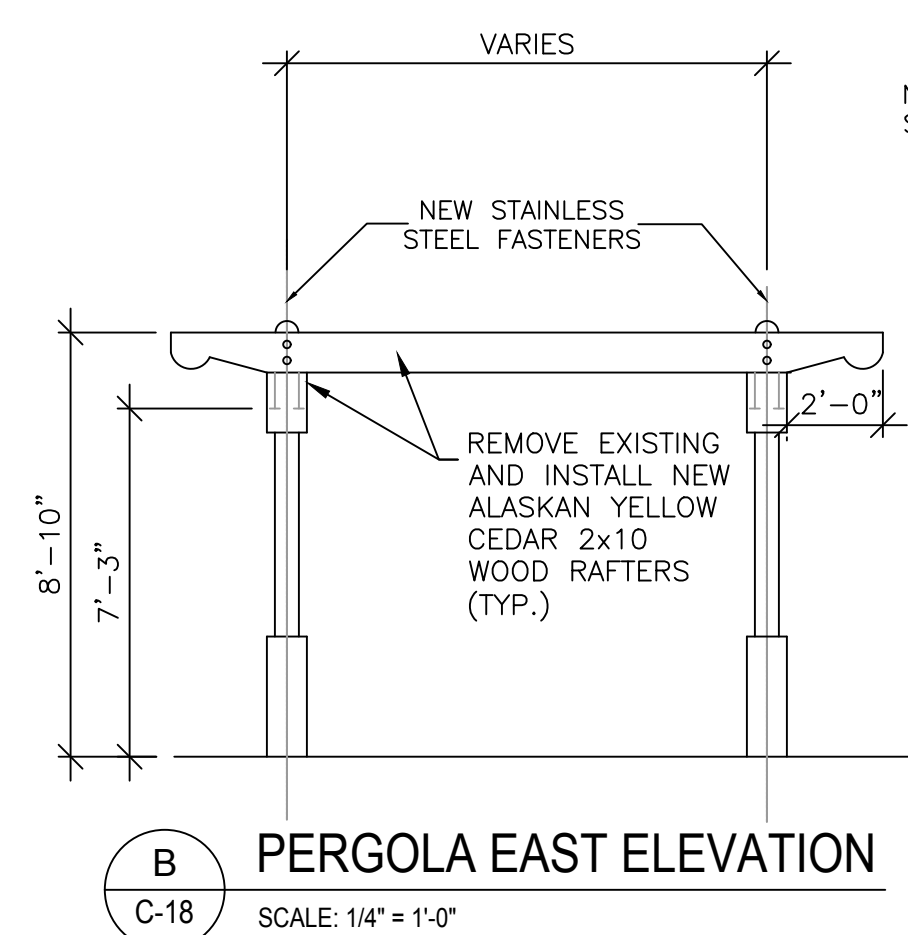
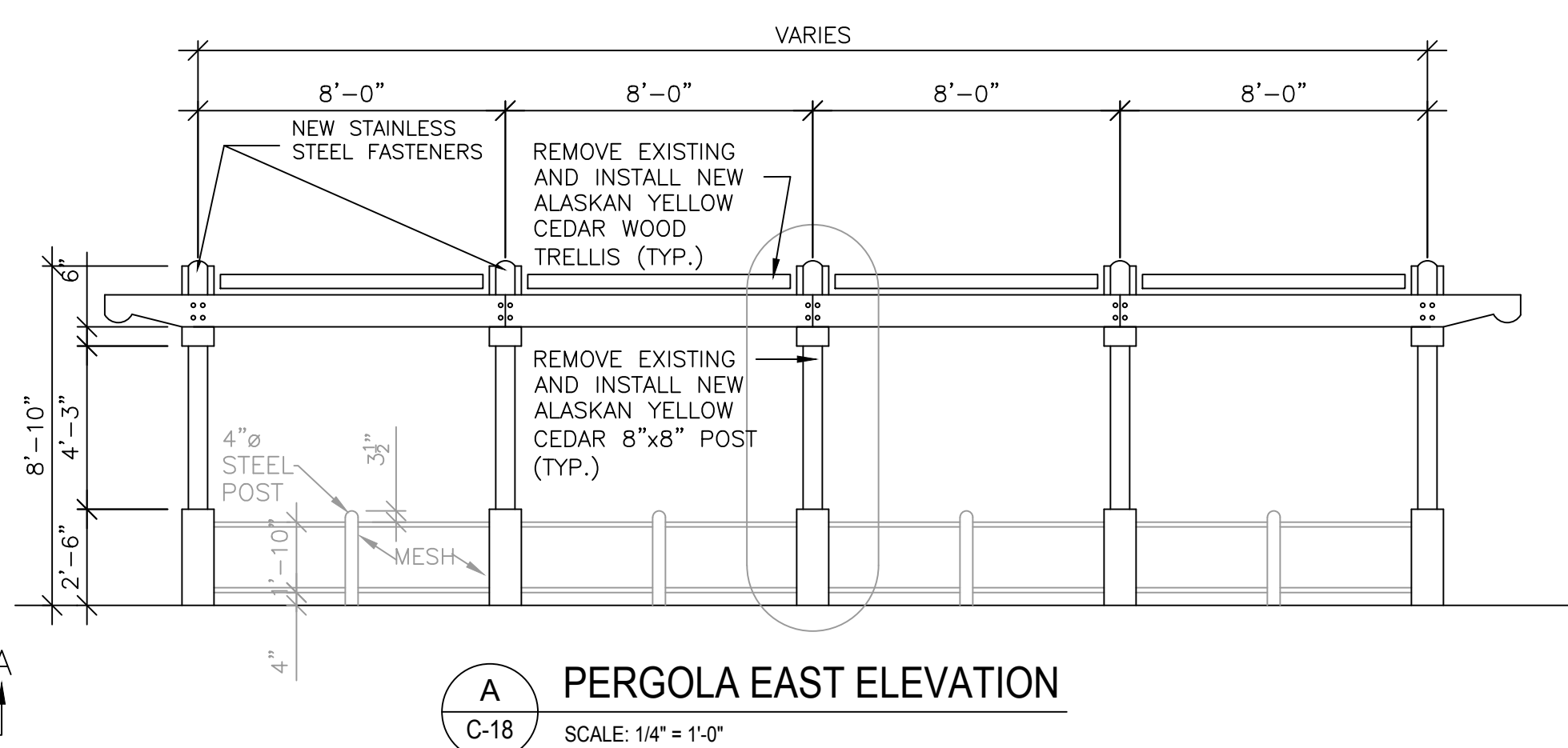
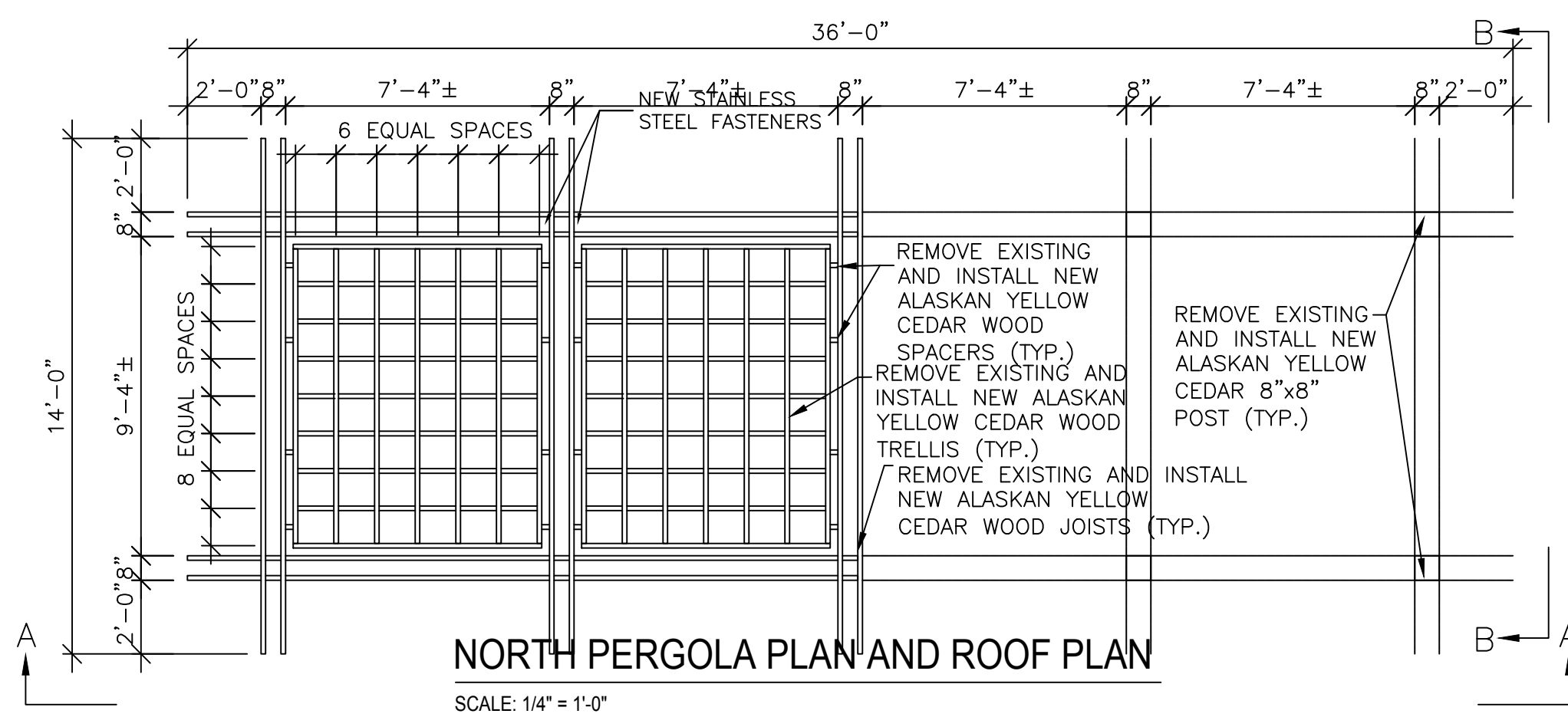


B ELEVATION
C-17
SCALE: 3/8" = 1'-0"



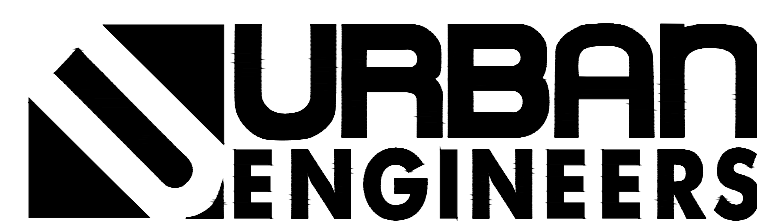
C ELEVATION
C-17
SCALE: 3/8" = 1'-0"

				UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.		BATTERY PARK CITY AUTHORITY		REMOVALS/RECONSTRUCTION		PROJECT NO. 2017200282.009	
				DESIGNED BY MDC		BOROUGH OF MANHATTAN		AREA II-B DETAILS		SHEET NO. 17 OF 23	
				CHECKED BY CFK		CITY OF NEW YORK				DATE: JULY 2018	
						ROCKEFELLER PARK TERRACE PLAYGROUND RECONSTRUCTION				DRAWING NO. C-17	
										SCALE: AS NOTED	
1	7/5/18	ISSUED FOR BID		CFK							
NO.	DATE	REVISION		INT.							



1	7/5/18	ISSUED FOR BID		CFK
NO.	DATE	REVISION		INT.

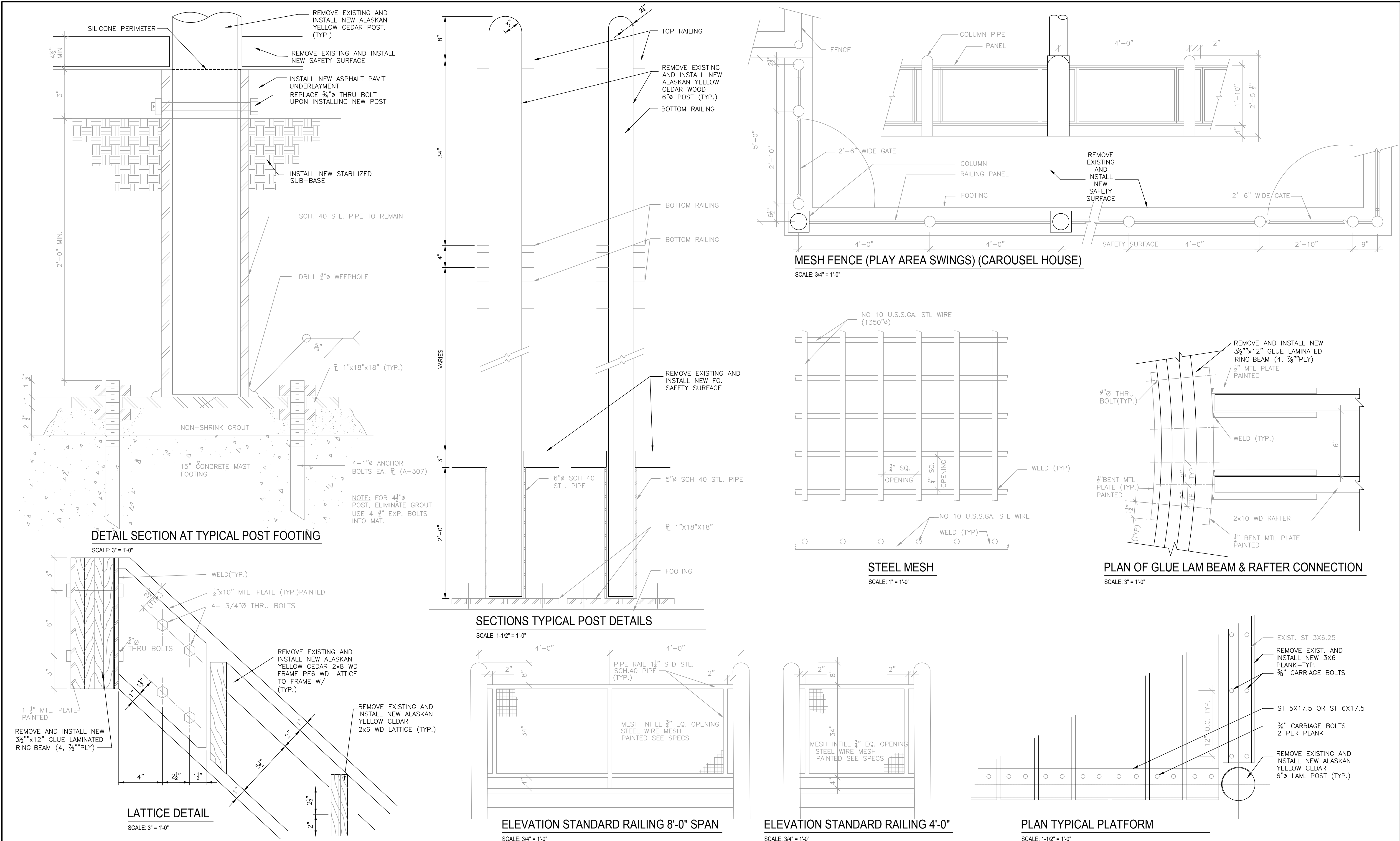
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW	
DESIGNED BY	MDC
CHECKED BY	CFK




BATTERY PARK CITY AUTHORITY	
BOROUGH OF MANHATTAN	CITY OF NEW YORK
ROCKEFELLER PARK TERRACE PLAYGROUND RECONSTRUCTION	

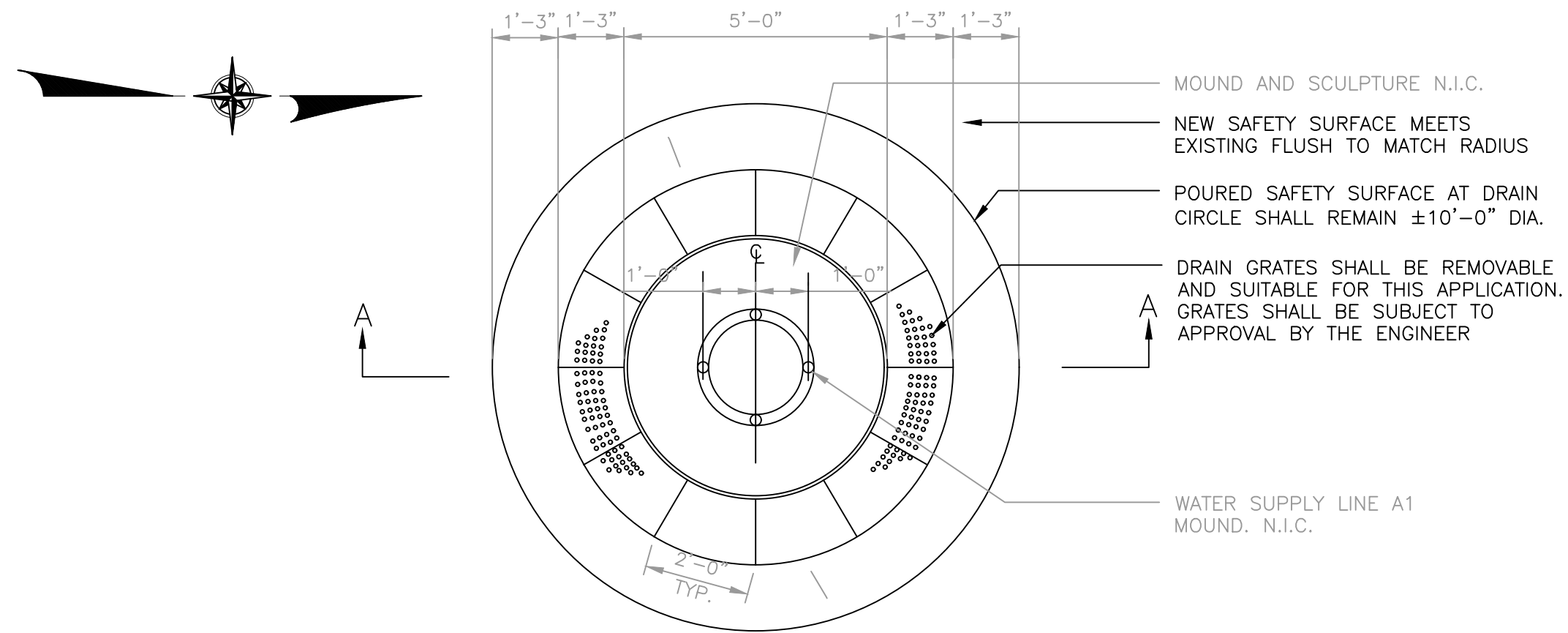
**REMOVALS/RECONSTRUCTION
AREA NORTHPARK PLAYGROUND - I**

PROJECT NO. 2017200282.009	SHEET NO. 18 OF 23
DATE: JULY 2018	DRAWING NO. C-18
SCALE: AS NOTED	



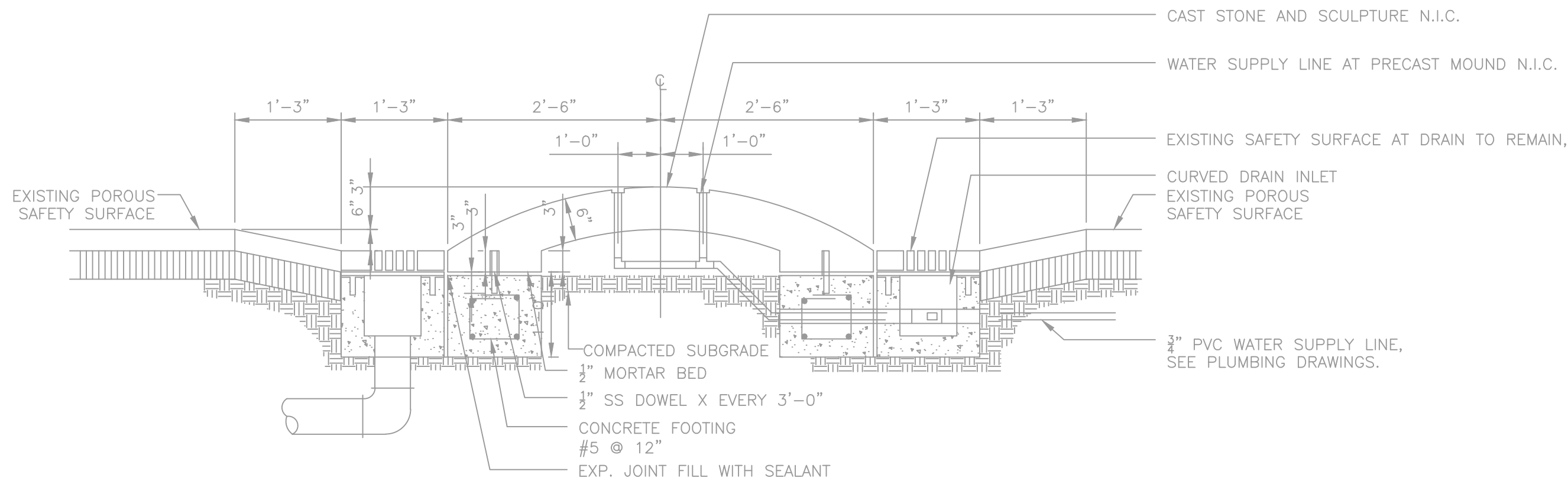
				<div>UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.</div> <div>DESIGNED BY MDC</div> <div>CHECKED BY CFK</div>		BATTERY PARK CITY AUTHORITY		<div>PROJECT NO. 2017200282.009</div> <div>DATE: JULY 2018</div> <div>SCALE: AS NOTED</div>	<div>SHEET NO. 19 OF 23</div> <div>DRAWING NO. C-19</div>	
						BOROUGH OF MANHATTAN	CITY OF NEW YORK			<div>REMOVALS/RECONSTRUCTION AREA NORTHPARK PLAYGROUND - II</div>
						ROCKEFELLER PARK TERRACE PLAYGROUND RECONSTRUCTION				
1	7/5/18	ISSUED FOR BID				CFK				
NO.	DATE	REVISION				INT.				





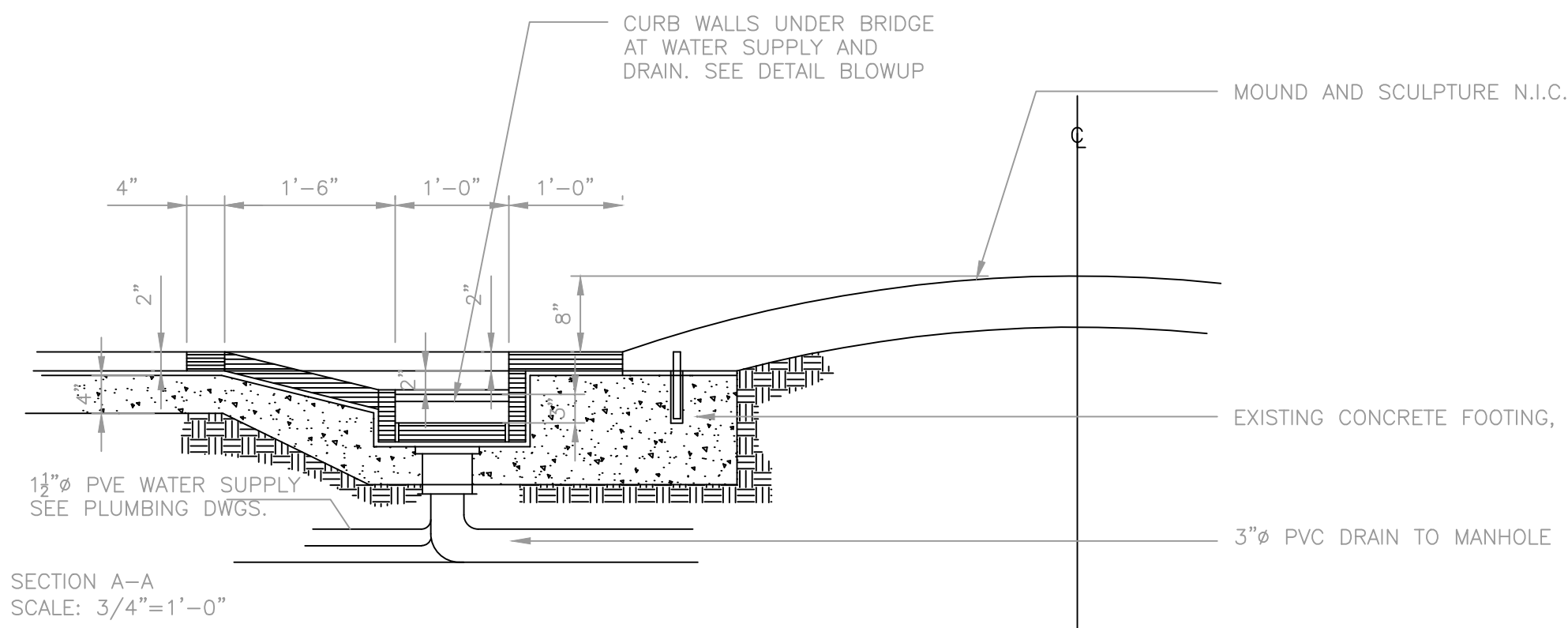
BABIES FOUNTAIN AREA - PLAN

SCALE: 3/8" = 1'-0"



A BABIES FOUNTAIN AREA - EXISTING

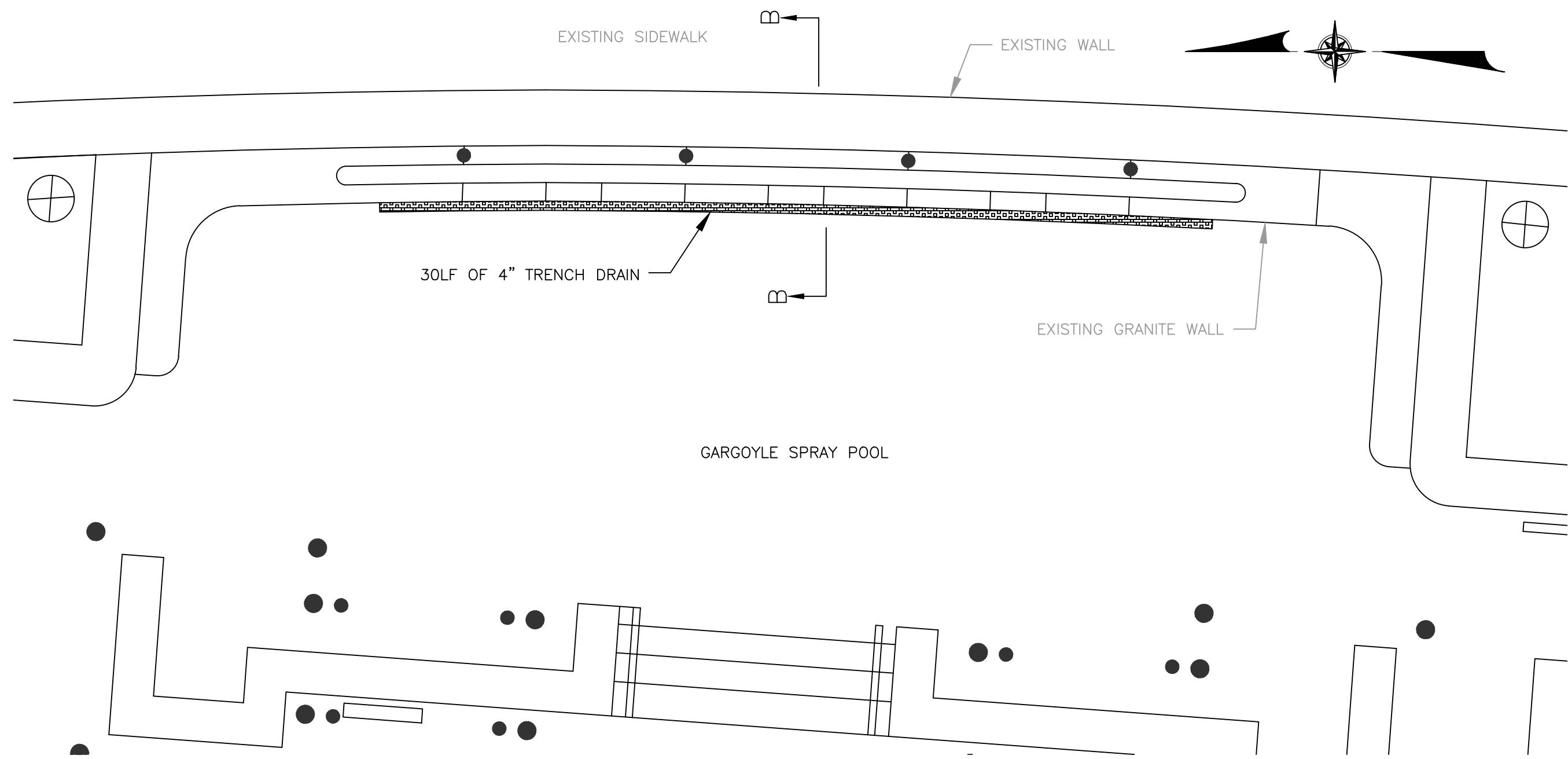
C-20 SCALE: 3/4" = 1'-0"



SECTION A-A
SCALE: 3/4"=1'-0"

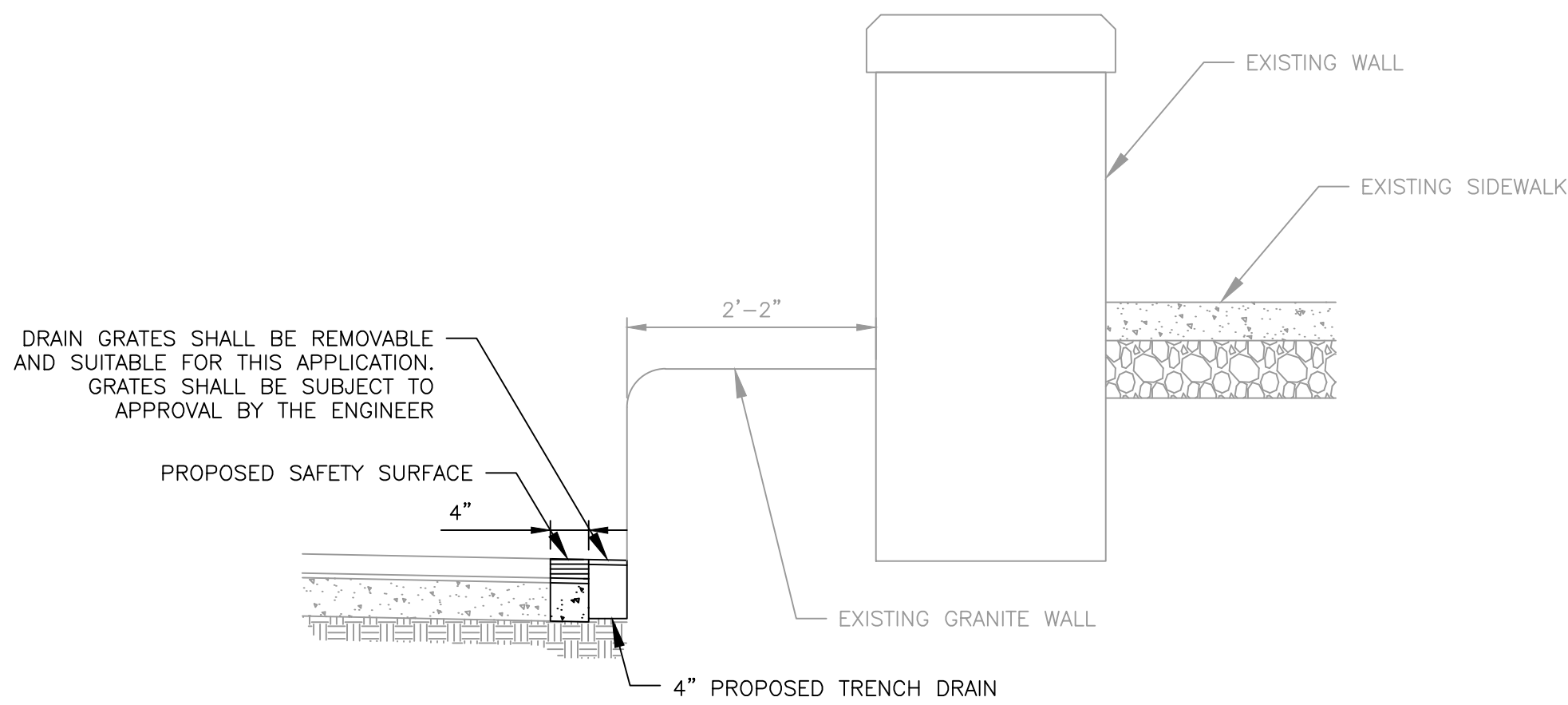
A BABIES FOUNTAIN AREA - PROPOSED SECTION AT DRAIN

C-20 SCALE: 3/4" = 1'-0"



GARGOYLE SPRAY POOL - PLAN

SCALE: 1/4" = 1'-0"



B GARGOYLE SPRAY POOL - PROPOSED SECTION AT DRAIN

C-20 SCALE: 3/4" = 1'-0"

1	7/5/18	ISSUED FOR BID	CFK
NO.	DATE	REVISION	INT.

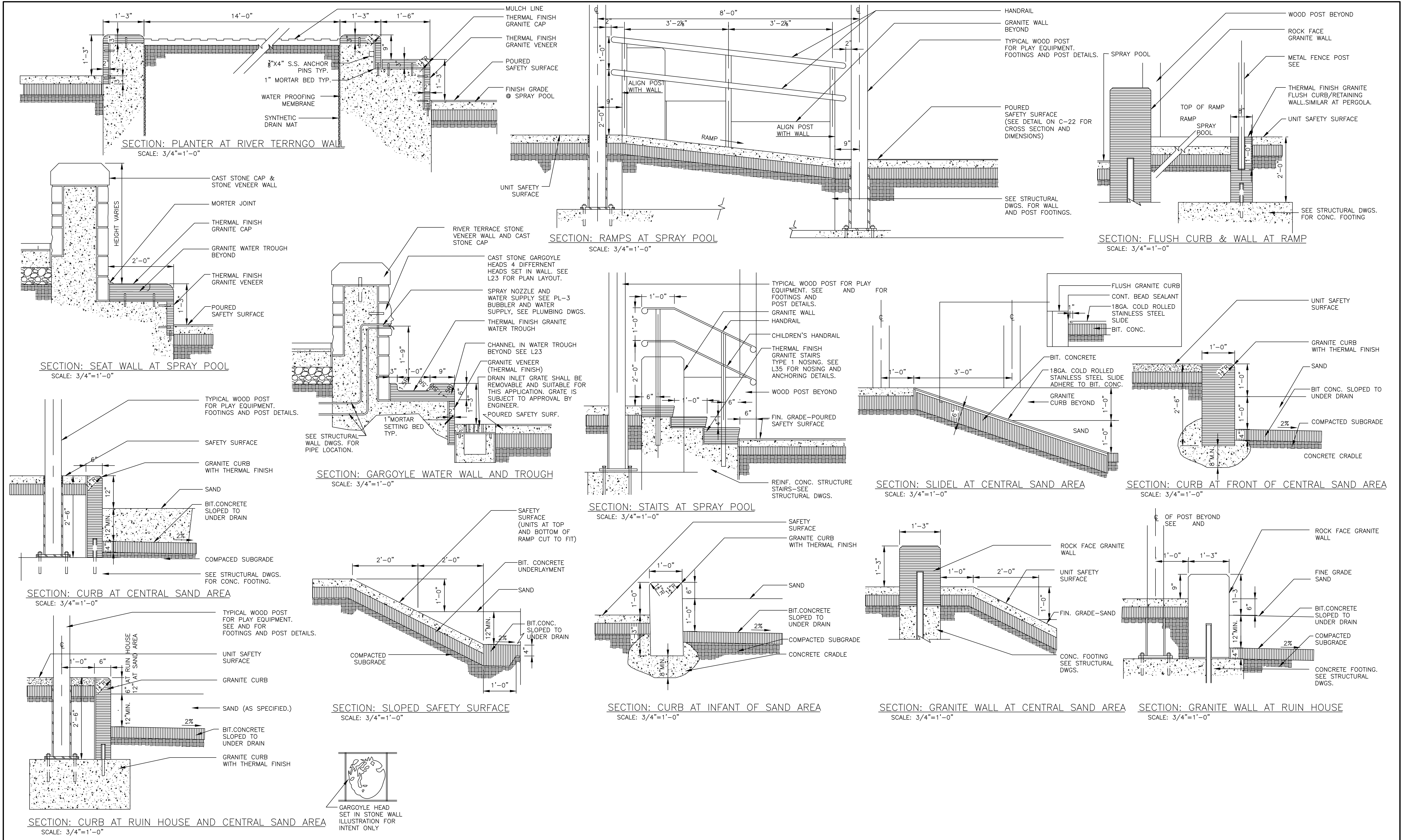
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.	
DESIGNED BY	MDC
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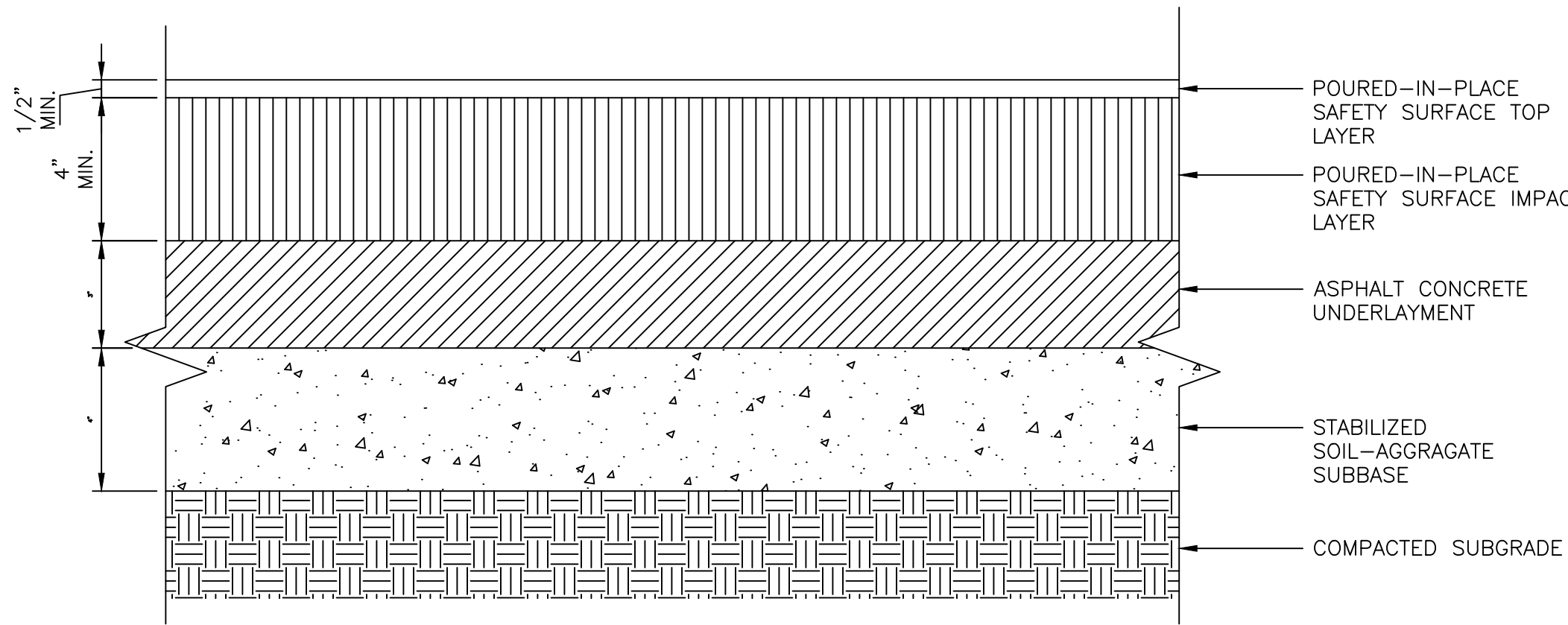
BATTERY PARK CITY AUTHORITY	
BOROUGH OF MANHATTAN	CITY OF NEW YORK
ROCKEFELLER PARK TERRACE PLAYGROUND RECONSTRUCTION	

REMOVALS/RECONSTRUCTION OF EXISTING WATER PLAY DETAILS	
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PROJECT NO. 2017200282.009	SHEET NO. 20 OF 23
DATE: JULY 2018	DRAWING NO. C-20
SCALE: AS NOTED	

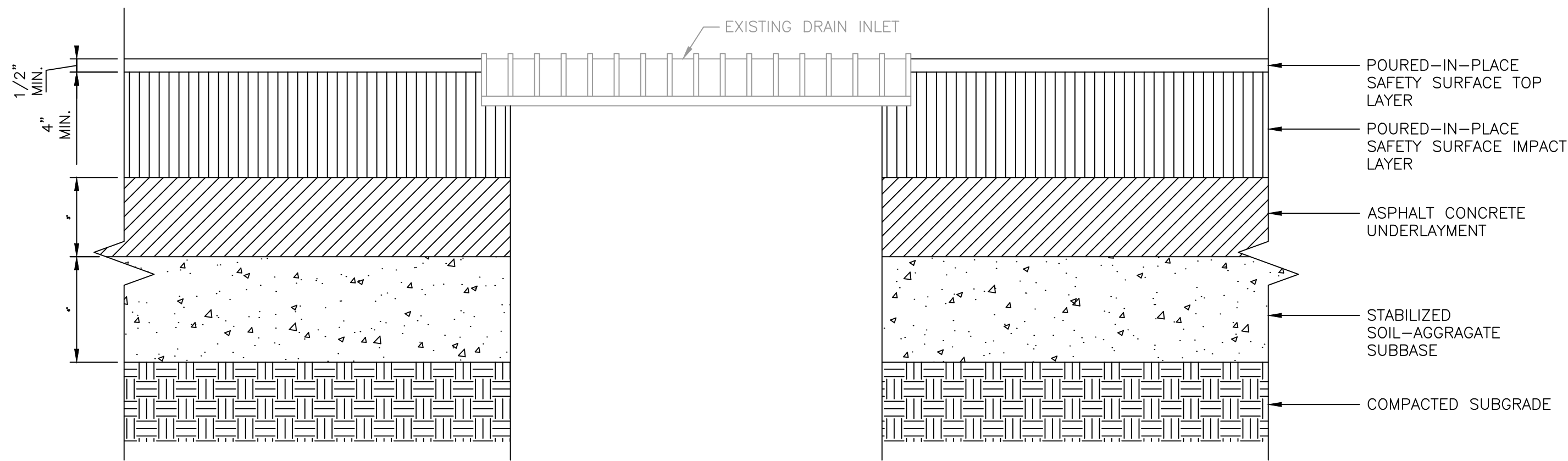


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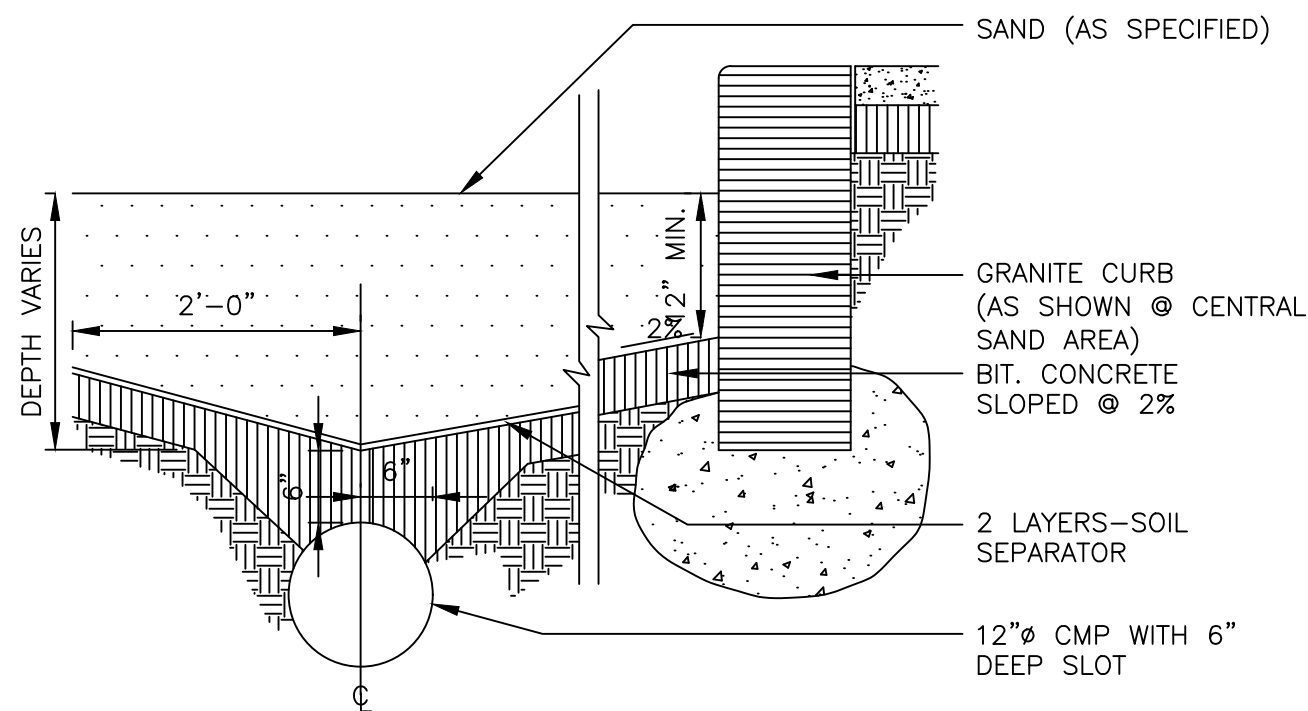
TYPICAL SECTION OF SAFETY SURFACE

SCALE: 3" = 1'-0"



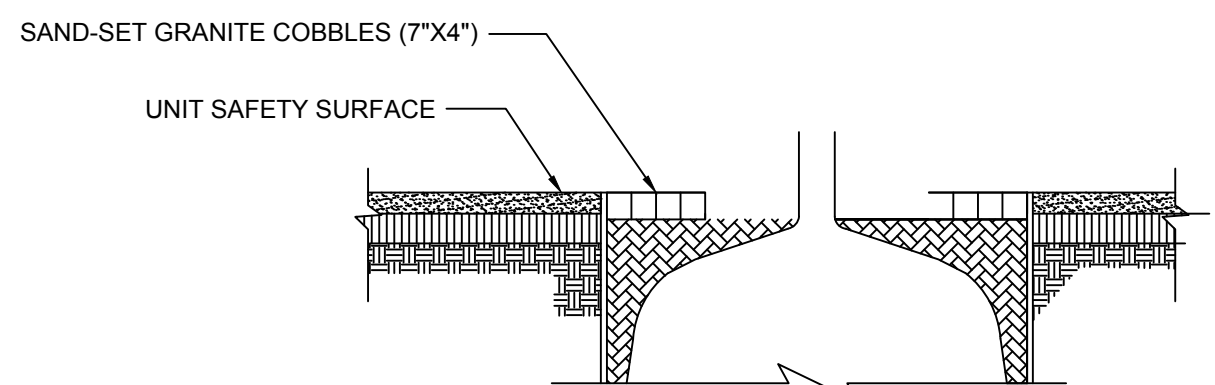
TYPICAL SECTION OF SAFETY SURFACE AT DRAINS

SCALE: 3" = 1'-0"

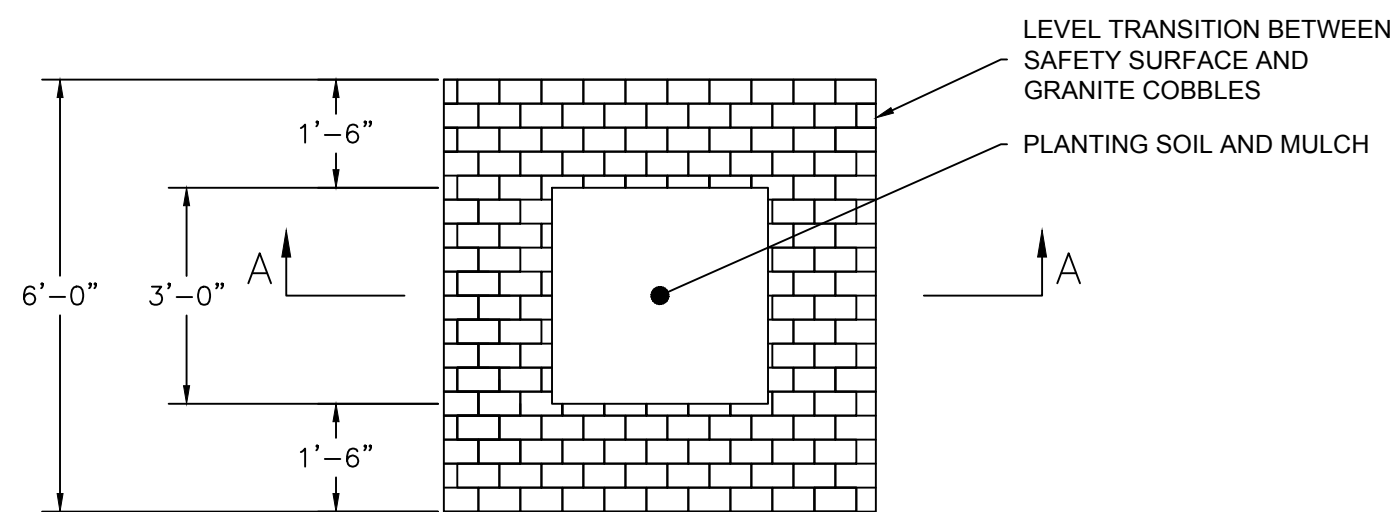


SECTION: AT SAND AREA

SCALE: 3/4" = 1'-0"

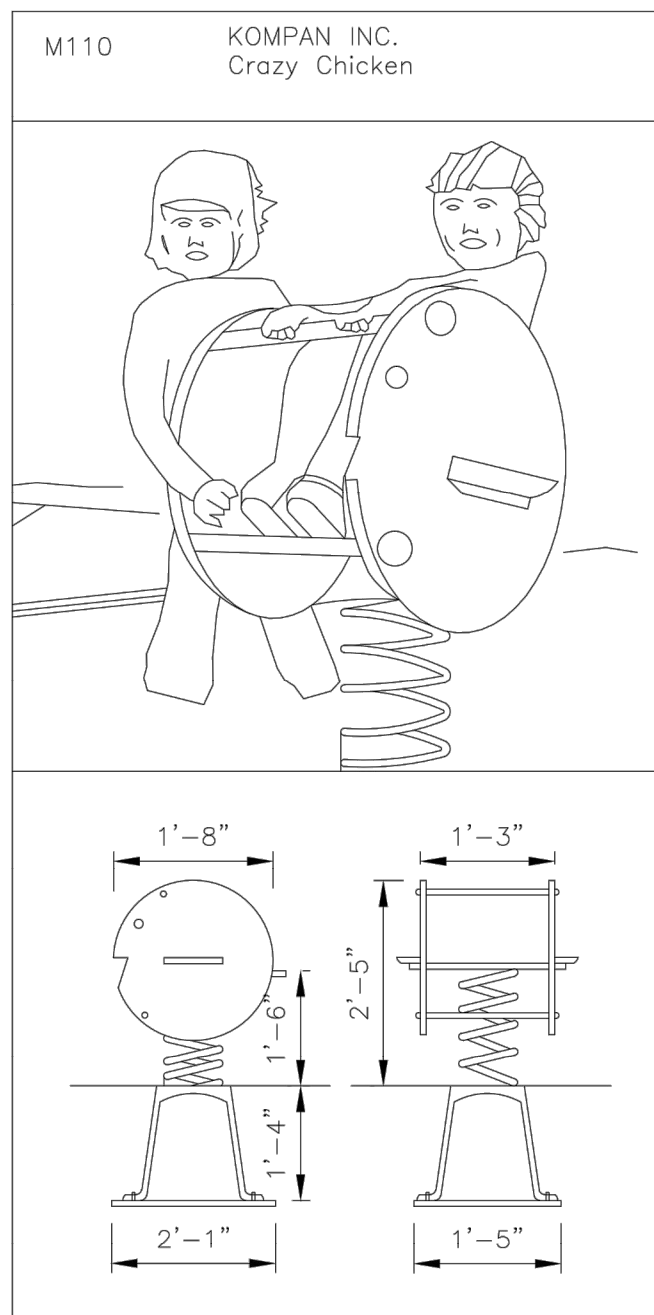


SECTION A-A



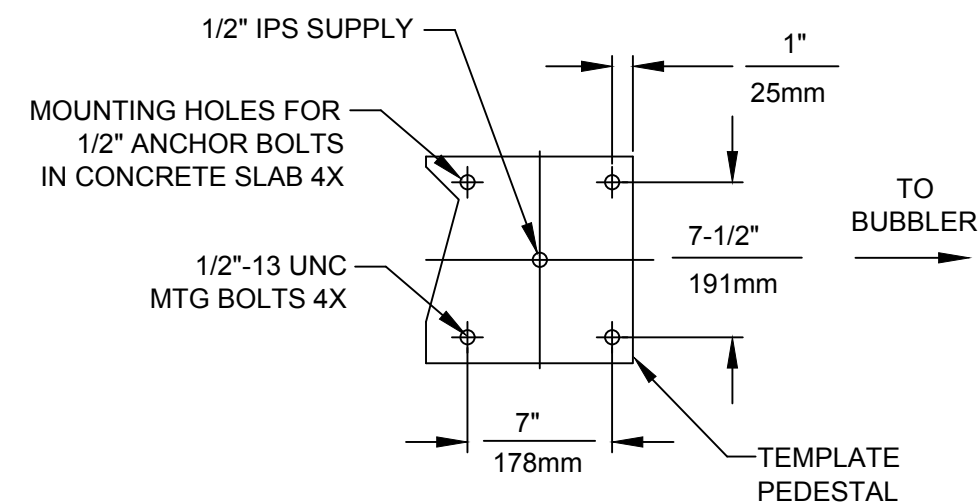
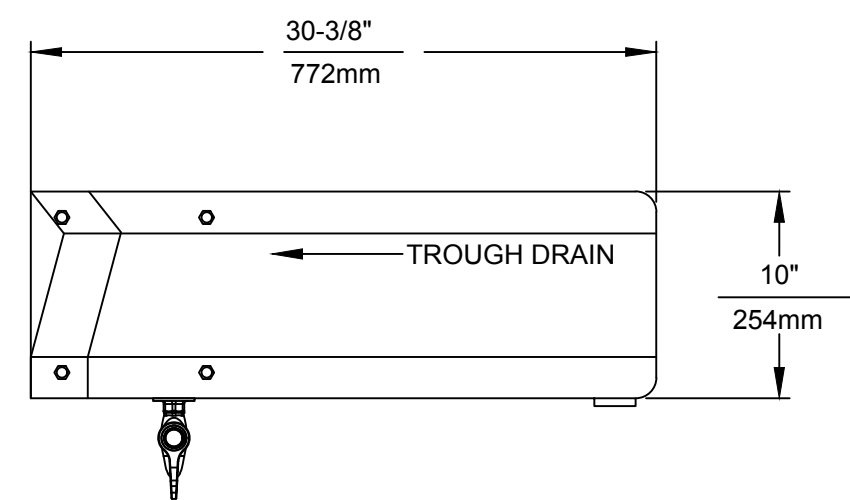
TREE PIT AT PLAY AREA

SCALE: 3/8" = 1'-0"

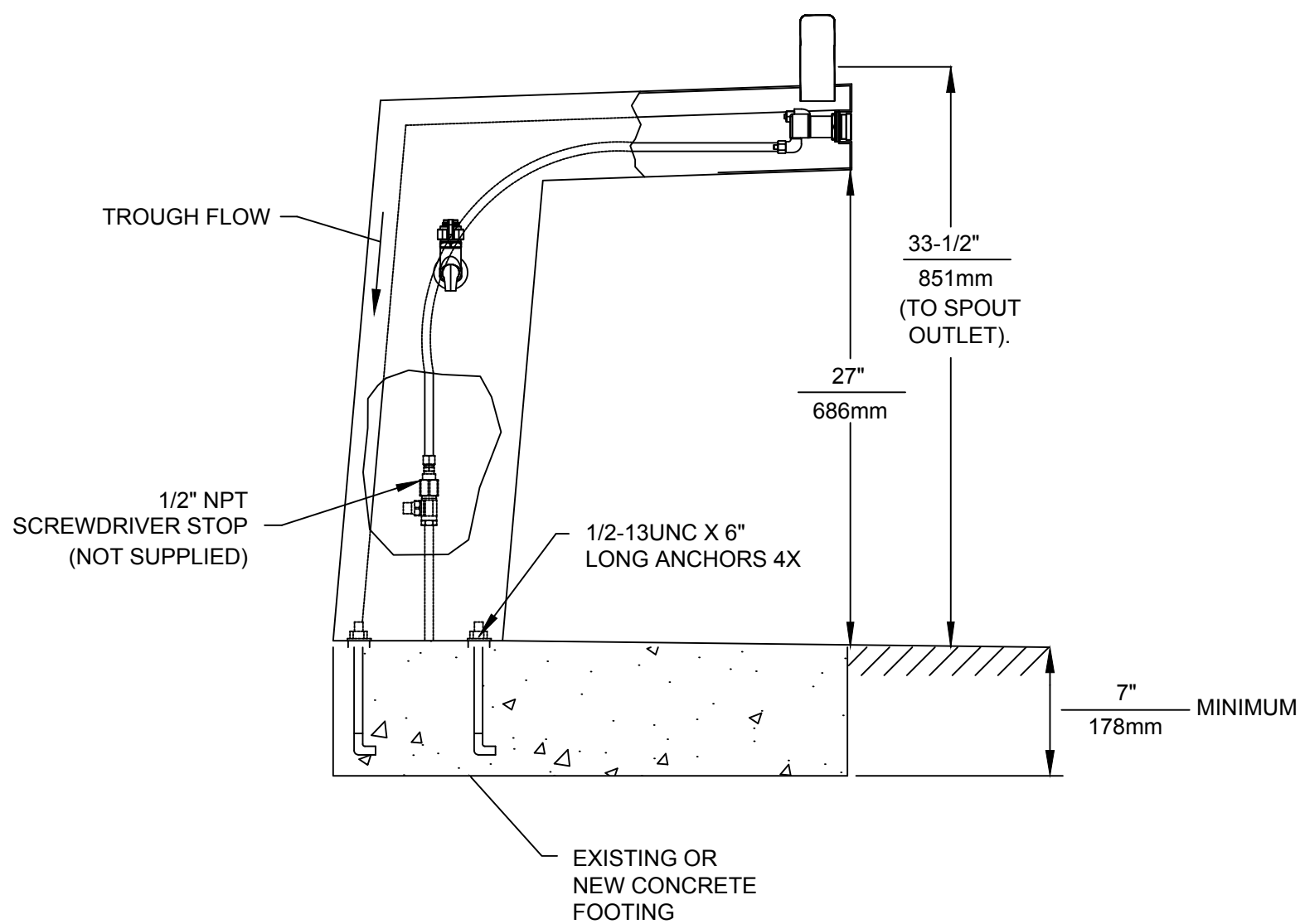


AREA I-C SWING BASE ANIMAL

SCALE: N.T.S.

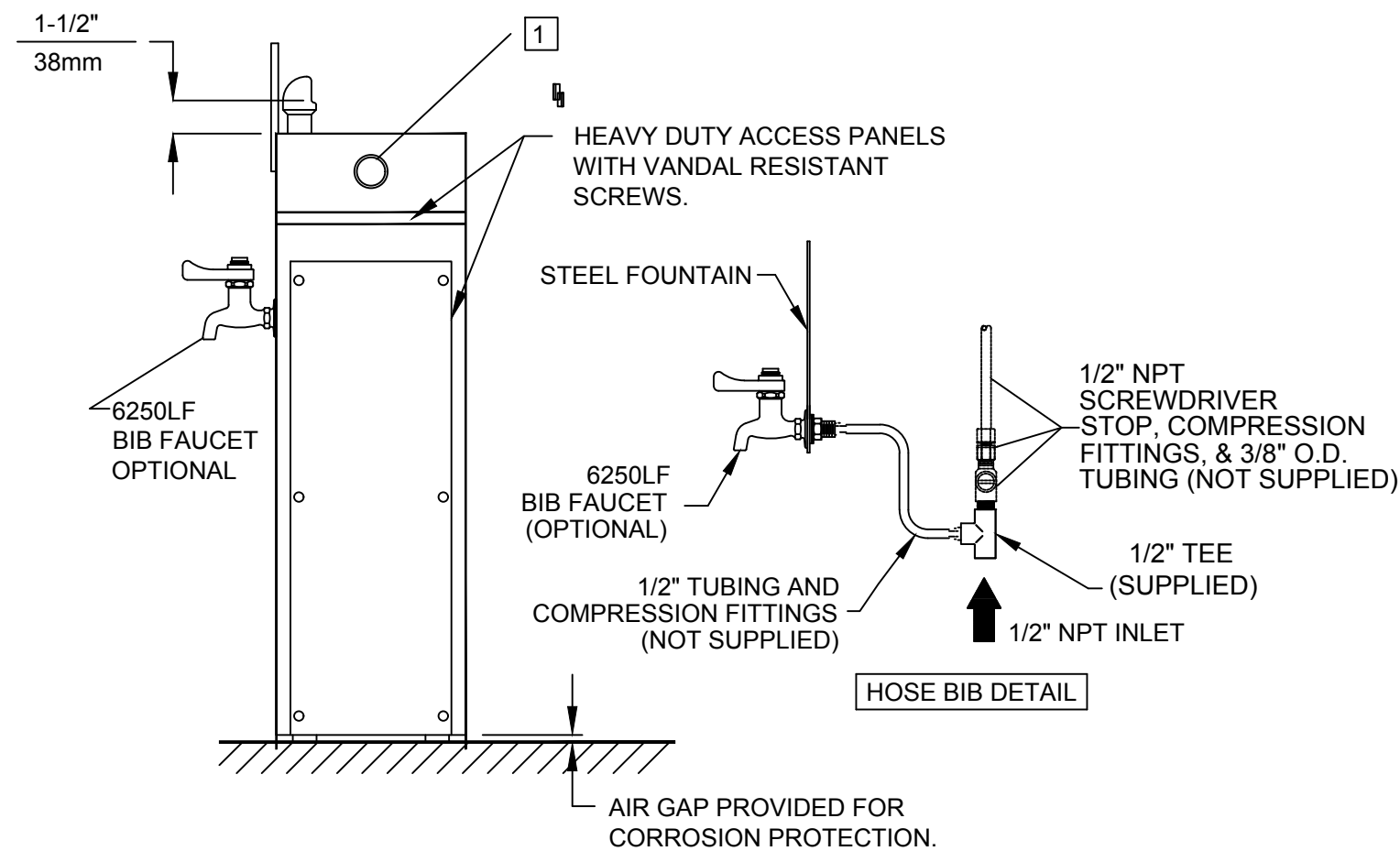


MOUNTING DETAIL



DRINKING FOUNTAIN

SCALE: N.T.S.



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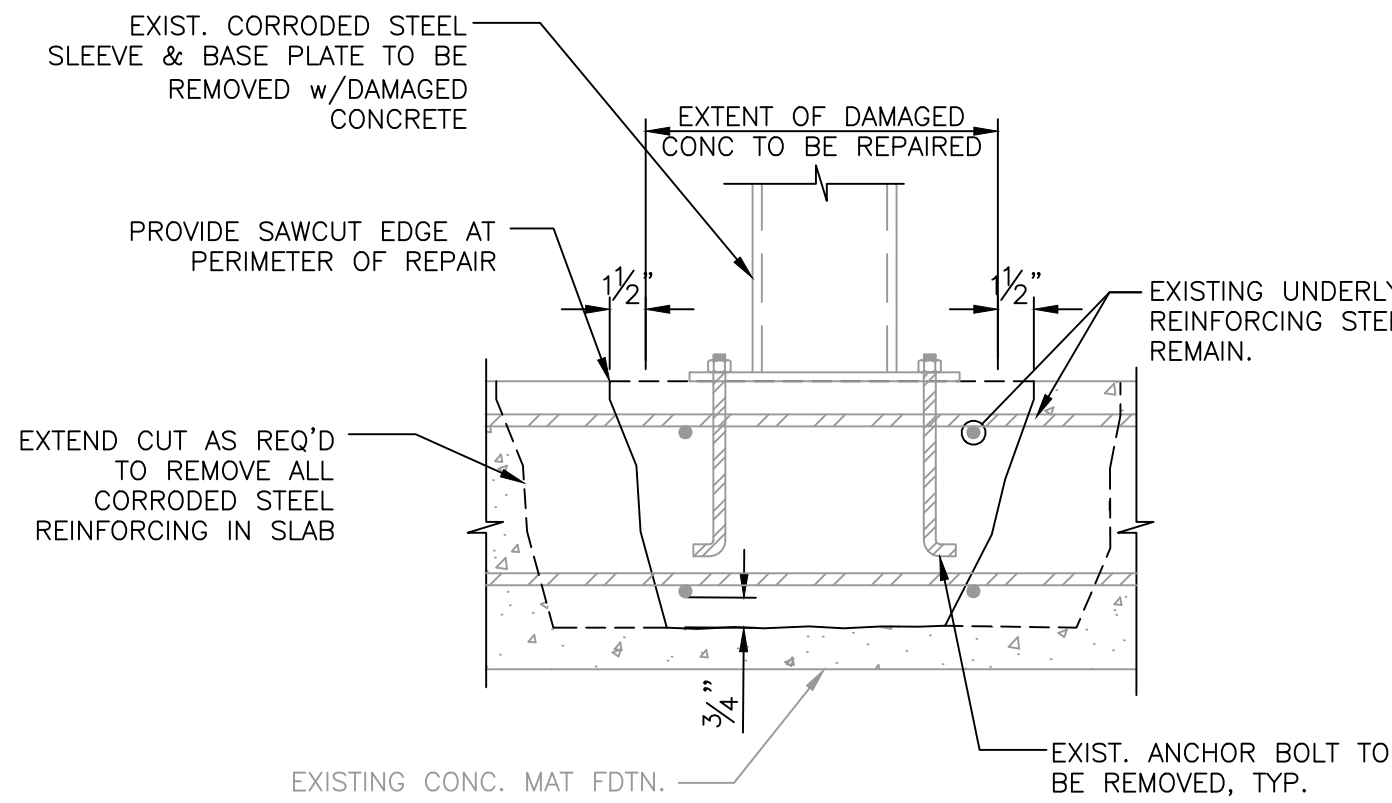
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DESIGNED BY	MDC
CHECKED BY	CFK



BATTERY PARK CITY AUTHORITY	
BOROUGH OF MANHATTAN	CITY OF NEW YORK
ROCKEFELLER PARK TERRACE PLAYGROUND RECONSTRUCTION	

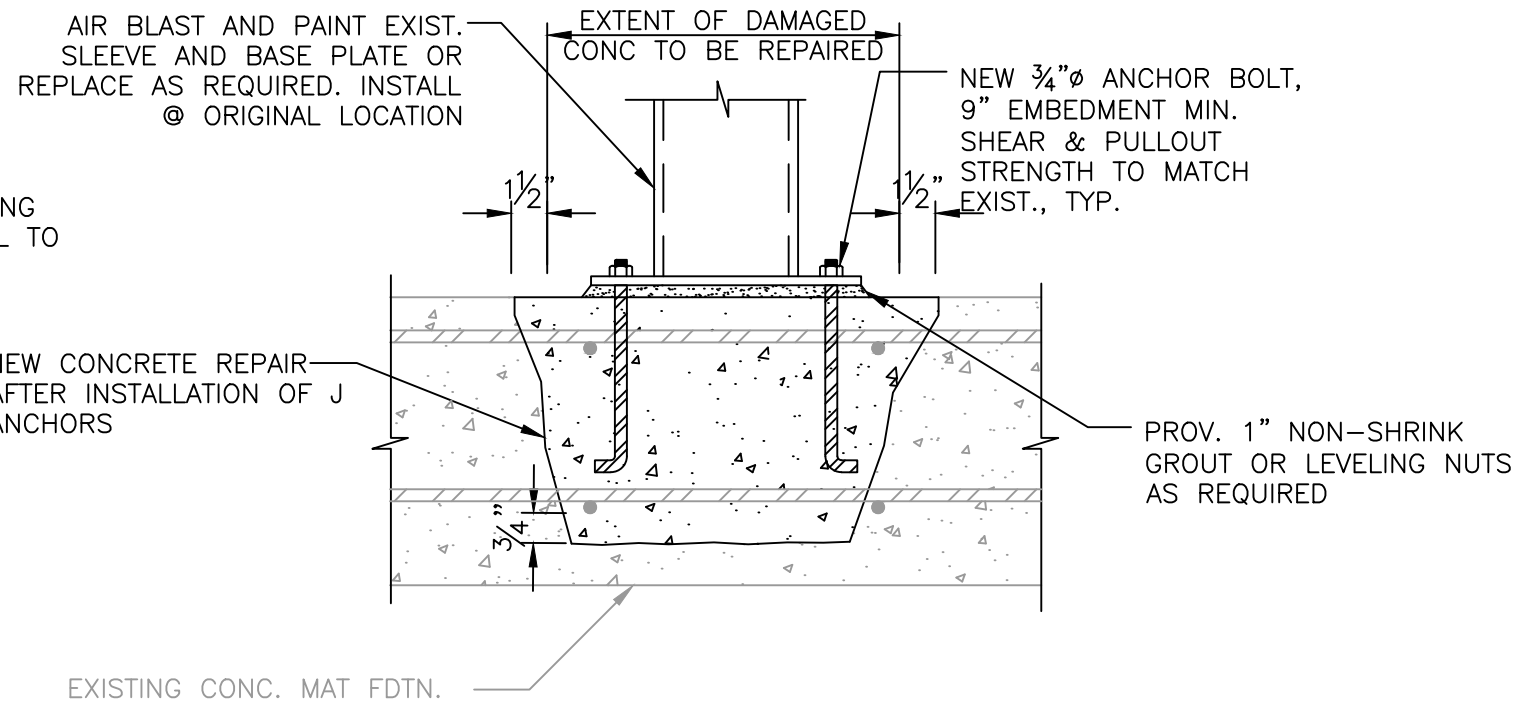
RECONSTRUCTION DETAILS

PROJECT NO. 2017200282.009	SHEET NO. 22 OF 23
DATE: JULY 2018	DRAWING NO. C-22
SCALE: AS NOTED	



SECTION @ SLEEVE REMOVAL

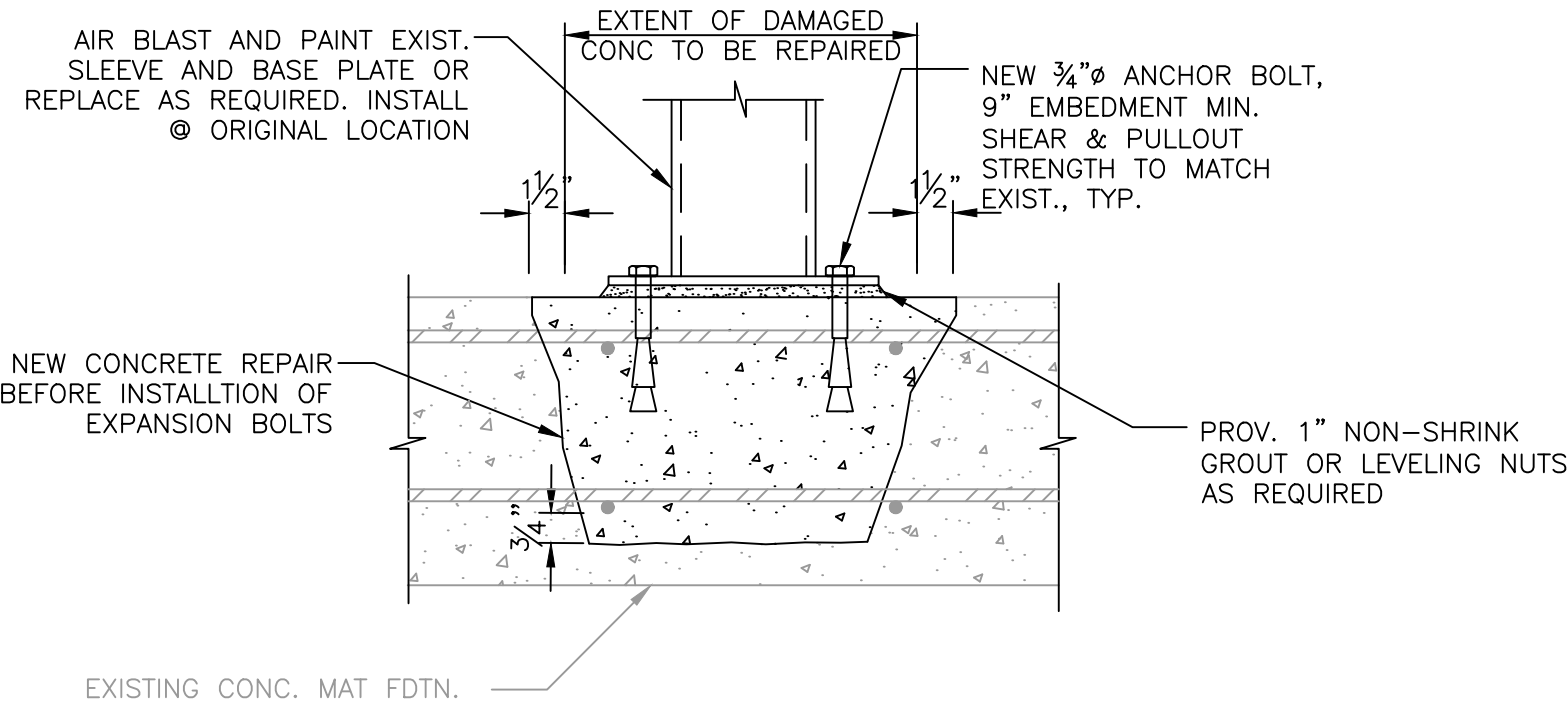
SCALE: 1-1/2" = 1'-0"



SECTION @ NEW SLEEVE EMBEDMENT OPTION A

SCALE: 1-1/2" = 1'-0"

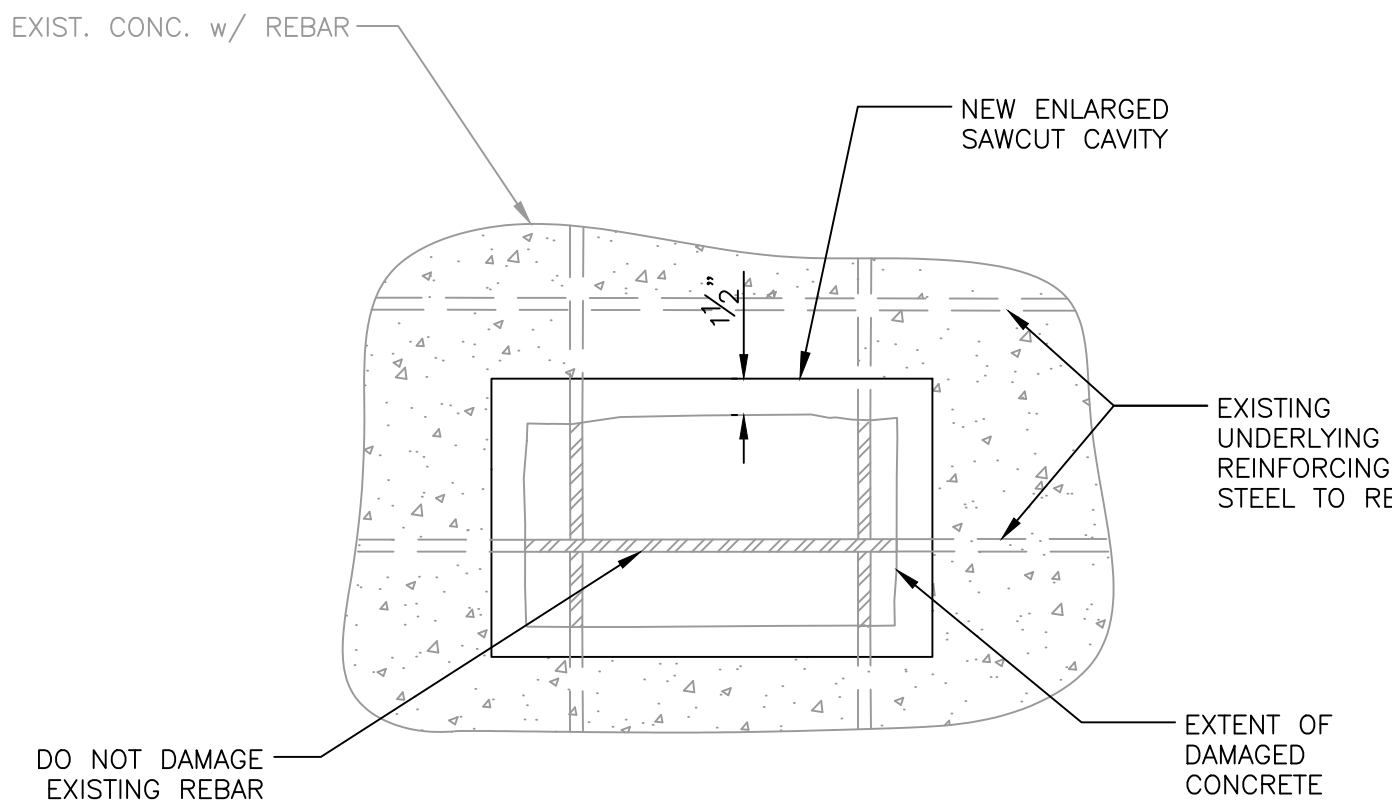
OPTION A:
PRE-EMBEDED J ANCHORS



SECTION @ NEW SLEEVE EMBEDMENT OPTION B

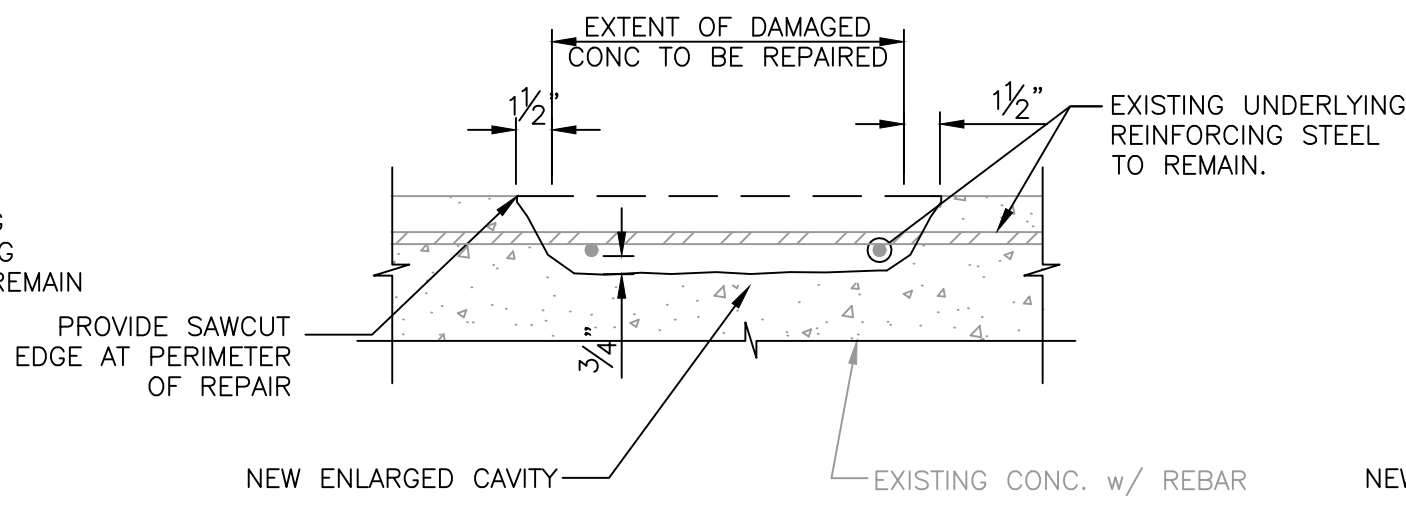
SCALE: 1-1/2" = 1'-0"

OPTION B:
POST-INSTALLED EXPANSION ANCHORS



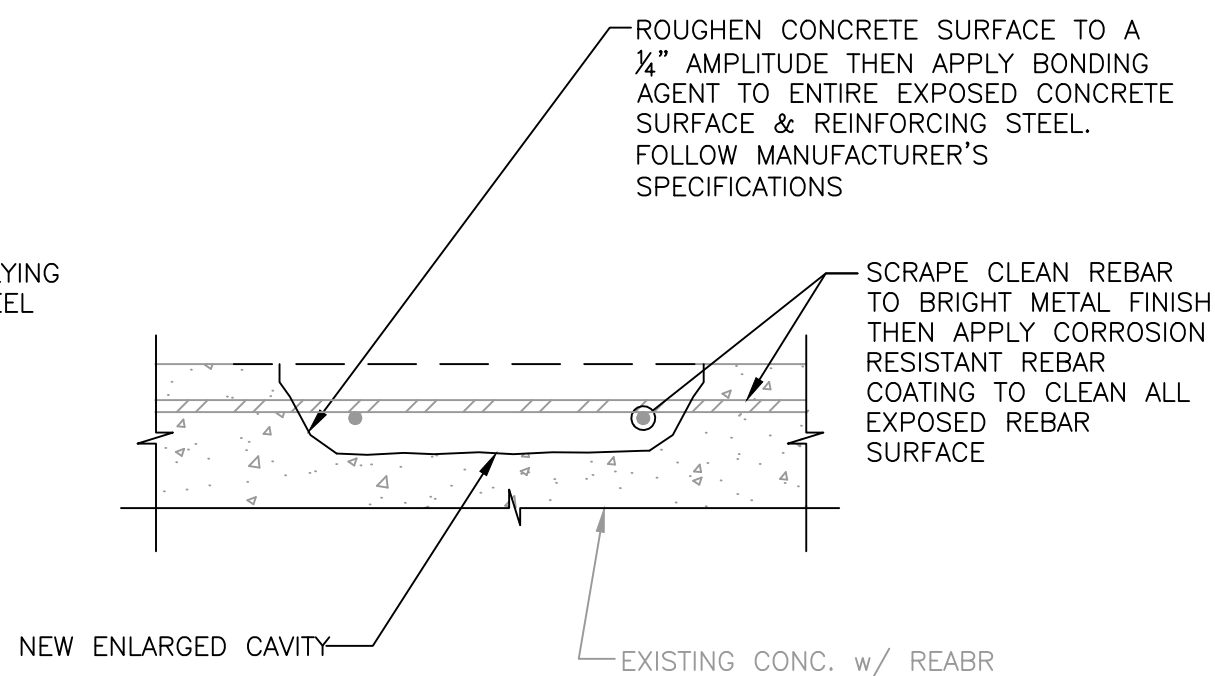
PLAN @ CONCRETE REMOVAL w/ REBAR

SCALE: 1-1/2" = 1'-0"



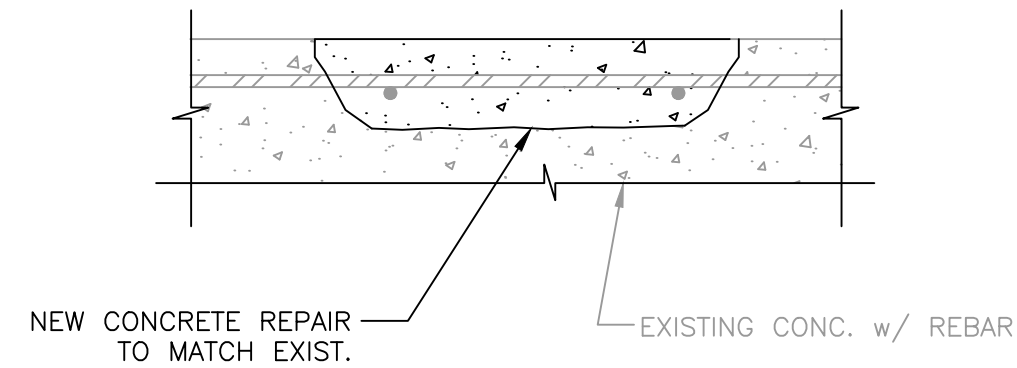
SECTION @ CONCRETE REMOVAL w/ REBAR

SCALE: 1-1/2" = 1'-0"



SECTION @ CAVITY PREPARATION w/ REBAR

SCALE: 1-1/2" = 1'-0"

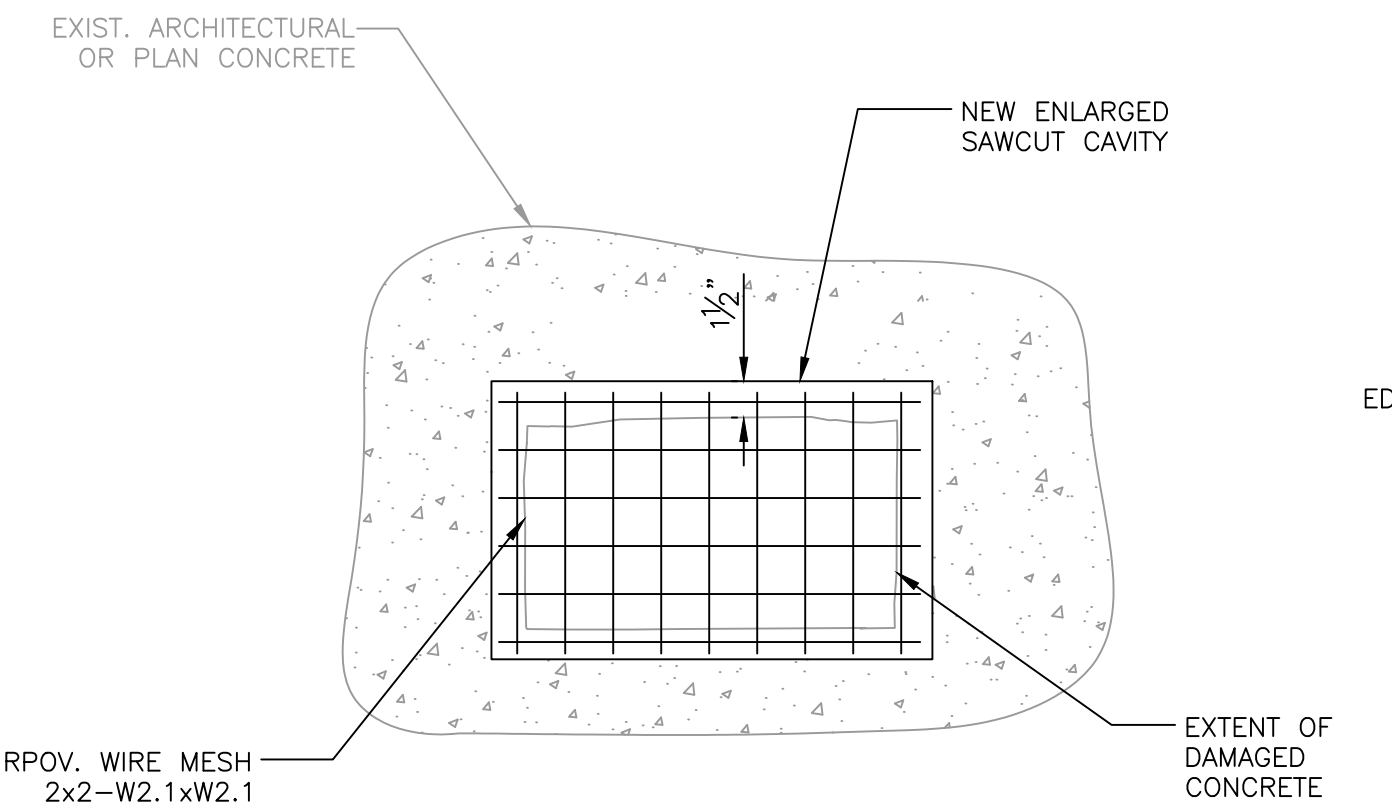


SECTION @ CONCRETE REPAIR w/ REBAR

SCALE: 1-1/2" = 1'-0"

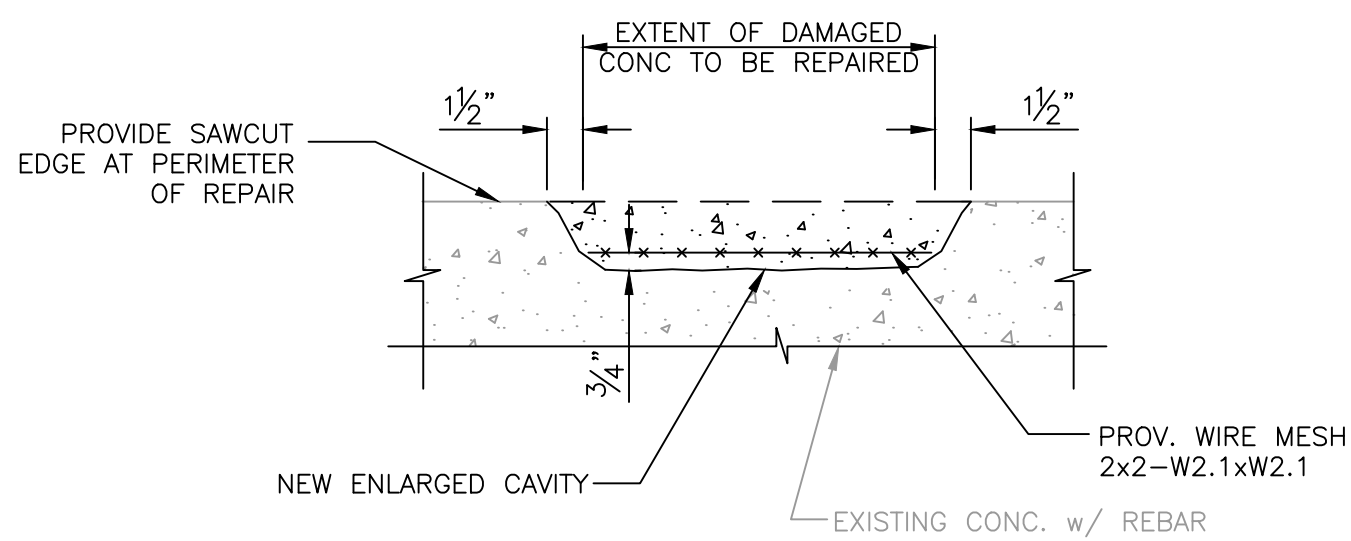
NOTE: ALL PRODUCTS USED FOR PATCH REPAIR SHALL BE FROM THE SAME MANUFACTURER & RECOMMENDED FOR USE AS A SYSTEM. USE ONE SYSTEM FOR ALL PATCH REPAIRS AT THIS PLAYGROUND

NOTE: SEE CAVITY PREPARATION DETAIL ON THIS SHEET FOR ADDITIONAL INFORMATION.



PLAN @ PLAIN CONCRETE REPAIR

SCALE: 1-1/2" = 1'-0"



SECTION @ PLAIN CONCRETE REPAIR

SCALE: 1-1/2" = 1'-0"

STEP 1: CONCRETE REMOVAL:

- MARK A RECTILINEAR PERIMETER AROUND THE DAMAGED SECTION OF CONCRETE, EXTENDING 1 1/2" BEYOND THE OUTER MOST EDGE OF THE REQUIRED REMOVAL.
- PROVIDE 3/4" DEEP SAW CUT ALONG MARKED RECTILINEAR EDGE TO PROVIDE A FAULT LINE FOR DEMOLITION AND TO PREVENT FEATHERED EDGES. DO NOT CUT OR DAMAGE UNDERLYING REINFORCEMENT.
- UTILIZING A 15LB PNEUMATIC HAMMER TOOL (OR SIMILAR HAND TOOL) REMOVE ALL DETERIORATED CONCRETE INSIDE ENLARGED CAVITY FOLLOWING THE MARKED OUTLINE.
- EXTEND CONCRETE REMOVAL TO A MINIMUM DEPTH OF 3/4" BEYOND STEEL REINFORCING BAR WITHIN THE CAVITY.

STEP 2: CAVITY PREPARATION

- UPON COMPLETING REMOVAL OF CONCRETE, REMOVE ALL LOOSE AND/OR DELAMINATING RUST AND MAKE ALL AREAS AVAILABLE FOR INSPECTION BY ENGINEER FOR ADDITIONAL INSTRUCTION.
- CLEAN ALL APPROVED UNCOVERED REINFORCING BARS WITH A WIRE BRUSH ONLY. REMOVE ALL RUST, SCALE TO BRING REPAIR TO BRIGHT METAL. IN THE EVENT THAT RUST EXTENDS BEYOND PREVIOUSLY OBSERVED, NOTIFY ENGINEER FOR FURTHER INSTRUCTIONS.
- AT AREAS WHERE EXISTING REINFORCING STEEL PROJECTS BEYOND THE SPECIFIED 1 1/2", REINFORCING MAYBE BENT OR CUT AT THE DIRECTION OF THE ENGINEER ONLY.
- CLEAN CAVITY OF ALL DEBRIS WITH COMPRESSED AIR AND FLUSH CAVITY WITH POTABLE WATER. DO NOT USE ANY TOOLS OR MATERIAL THAT MAY CAUSE BOND-INHABITATION.
- ALLOW CAVITY AND BARS TO DRY PRIOR TO APPLICATION OF CORROSION RESISTANT REBAR COATING.
- PREPARE CAVITY PER MANUFACTURER'S SPECIFICATIONS TO RECEIVE BONDING AGENT AND CEMENTITIOUS TOPPING. SATURATE CAVITY UTILIZING CLEAN POTABLE WATER FREE OF CONTAMINANTS. ENSURE SURFACE IS DRY AND FREE OF STANDING WATER PRIOR TO APPLICATION OF BONDING AGENT.
- APPLY BONDING AGENT PER MANUFACTURER'S SPECIFICATION.
- NO PINS OR ADDITIONAL REINFORCEMENT IS REQUIRED, UNLESS DIRECTED BY THE ENGINEER TO REPLACE DAMAGED REINFORCEMENT.

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BATTERY PARK CITY AUTHORITY	
BOROUGH OF MANHATTAN	CITY OF NEW YORK
ROCKEFELLER PARK TERRACE PLAYGROUND RECONSTRUCTION	

TYPICAL REPAIR DETAILS

PROJECT NO. 2017200282.009	SHEET NO. 23 OF 23
DATE: JULY 2018	DRAWING NO. C-23
SCALE: AS NOTED	

ITEM 01 - MOBILIZATION

DESCRIPTION:

Under this work item the Contractor shall provide necessary bonds, insurance, and pre-financing and shall set up his necessary general plan, including shops, storage areas, office and such sanitary and other facilities as required by local or state regulations.

MATERIALS:

Such materials as required for mobilization and that are not to be part of the work in place shall be as determined by the Contractor, except that they shall conform to any pertinent local or State Law, regulation or code.

CONSTRUCTION METHODS:

The work required to provide the above facilities and service for mobilization shall be done in a safe and workmanlike manner and shall conform to any pertinent local or State Law, regulation or code. Good housekeeping consistent with safety shall be maintained.

BASIS OF PAYMENT:

The amount bid shall include the furnishing and maintaining of services and facilities noted under DESCRIPTION SECTION, to the extent and at the time the Contractor deems them necessary for his operations, consistent with the requirements of this work and the respective contract.

The cost of all labor, equipment and materials necessary to satisfactorily complete the work shall be included in the Lump Sum price bid item of the Contract.

QUALITY PLAN:

Contractor shall submit Quality Assurance and Quality Control Plans to the Engineer.

SAFETY PLAN:

Contractor shall submit Safety and Security Management Plan to the Engineer.

ITEM 02 – WORK ZONE SAFETY CONTROL

DESCRIPTION:

General

Work zone traffic control shall consist of all work to provide for the safe and efficient movement of pedestrian, bicycle and vehicle traffic through or around work zones, and to protect workers and the public from damage to person and property which may result, directly or indirectly, from any construction operations, under the direction of trained, responsible person, as shown in the Contract Documents and as directed by the Engineer. The duration of this work shall be from the date any work is started on the contract site, including mobilization of equipment, signs, offices, and shops until the date of contract final acceptance. Temporary materials and components that are furnished by the Contractor shall remain the property of the Contractor.

Basic Work Zone Safety Control. Work shall consist of controlling traffic over reasonably smooth traveled way which shall be marked by signs, delineators, channelizing devices, pavement markings, and other devices as appropriate or as directed by the Engineer.

Work after sunset and before sunrise shall include additional requirements for nighttime operations including, but not limited to, a written plan for nighttime operations, additional worker, equipment protection, and additional channelizing devices.

The Contractor shall conduct its operations to ensure the safety and convenience of travelers, and abutting property owners as well as the safety of all workers on the contract. Travelers include, but may not be limited to motorists, motorcyclists, bicyclists and pedestrians.

Fencing. Temporary Construction Gates and Fencing: As required or directed by the Engineer, the Contractor shall furnish and erect a new temporary 6-foot high chain link fence, gates and all necessary incidentals. Costs for erecting, maintaining and removing the 6-foot temporary fence shall be included in this item of work.

Excavations. All open excavations shall be adequately safeguarded by providing temporary barricades, caution signs, lights and other means to prevent accidents to persons, and damage to property in accordance with OSHA. Excavations shall not be left open overnight without prior permission from BPCA.

Maintain Public Access. Work shall consist of maintaining public access to intersecting roads, residences, business establishments, adjacent property, bus stops and transportation facilities for pedestrians and bicyclists.

Construction Signs. Work shall consist of furnishing, installing, moving, deactivating, maintaining and removing construction signs as directed by the Engineer.

Flagging and Traffic Control. Work shall consist of furnishing the necessary traffic control equipment and flaggers for adjacent traffic control.

Construction Barricades. Work shall consist of furnishing, installing, moving, maintaining and removing construction barricade as directed by the Engineer.

MATERIALS:

All materials shall comply with the requirements of Materials Data Sheets and Manufacturing Specifications.

Construction Signs. Fabrication of all components shall produce a finished sign panel. Holes may be punched or drilled. Edges shall be smooth and true and free from burrs or ragged breaks. Sign panels, including face shape, color, dimensions and characters shall be fabricated using colors, character series and sizes, symbols, route shields and borders as shown in the Manual on Uniform Traffic Control Devices (MUTCD) or as approved by the Engineer.

CONSTRUCTION METHODS:

General. The contractor shall designate a trained, responsible person who has primary responsibility and sufficient authority for implementing the work zone traffic control plan and other safety and mobility aspects as necessary. The Contractor's responsible person shall be appropriately experienced and trained in accordance with the level of decisions that the individual will be required to make, reflecting current industry practices and Authority requirements.

When sidewalks, walkways, or shoulders must be temporarily closed to facilitate construction operations, accommodations for safe pedestrian passage shall be maintained, at all times, unless other temporary pedestrian accommodations are approved by the Engineer.

Maintain Public Access. The Contractor shall provide and maintain at all times safe and adequate ingress and egress for intersecting sidewalks, residences, business establishments, adjacent properties, bus stops and other transportation facilities for vehicles, pedestrians and bicycles; at existing or at new access points, consistent with the work, unless otherwise authorized by the Engineer. Whenever construction operations disrupt or interfere with normal traffic patterns, intersections, business establishment access points, and driveways shall be clearly marked using channelizing devices.

Construction Vehicles and Equipment. All construction vehicles and equipment operating within the contract limits, whether in the work space, in the traffic space, in spoil areas, in storage areas, or any other areas of the contract, shall be operated at all times with due consideration for the safety of the public and workers.

BASIS OF PAYMENT:

The cost of all labor, equipment and materials necessary to satisfactorily complete the work shall be included in the Lump Sum price bid item of the Contract.

Progress payments for this item shall be made in proportion to the amount of work completed as approved by the Engineer.

ITEM 03 – DRAIN PIPES, CATCH BASINS AND MANHOLES CLEANOUT AND VIDEO INSPECTION

DESCRIPTION:

The work included in this item shall consist of furnishing all labor, materials, testing, submittals, tools and equipment to perform all work necessary for cleaning, removing and disposing of all sludge, dirt, sand, gravel, roots, grease, and other debris from the existing drainage system which includes: pipes, manholes; catch basins; and drop inlets, throughout the project limits as shown on plans. After cleaning, the Contractor shall video each line. Any problems shall be reported to the Engineer for further direction. Contractor shall submit video inspection report to engineer at completion.

MATERIALS:

Not applicable.

SUBMITTALS:

Not applicable.

CONSTRUCTION METHODS:

Selection of the equipment used shall be based on the condition of structures and the pipelines at the time the cleaning operations commence and shall be approved by the Engineer.

The sequence of the Contractor's work shall allow for the proper and adequate maintenance of all functional drainage systems.

Precautions shall be taken to protect the drainage systems at all times. All workmen shall be experienced and skilled in the use of the equipment used. The Engineer reserves the right to prohibit use of any equipment or method deemed inappropriate for the intended work.

Any and all debris resulting from the cleaning operations shall be removed from the job site and disposed of by the Contractor. Contractor shall remove all sludge, dirt, sand, gravel, roots, grease, and other debris from the existing drainage systems including discharge points. Washing of sludge, dirt, sand, gravel, roots, grease, and other debris downstream shall not be permitted.

Video of the drain pipes and structures shall be taken after cleaning activities are complete. Any abnormalities found during the video investigation shall be reported to the Engineer. Any drainage repairs or modifications shall be made as directed by the engineer.

BASIS OF PAYMENT:

The cost of all labor and equipment necessary to satisfactorily complete the work shall be included in the Lump Sum price bid item of the Contract.

Payment for any necessary drainage repairs or modifications as directed by the Engineer are included as allowance item A1. Payment amounts shall be determined in accordance with negotiations between the Contractor and the Engineer.

ITEM 04 – PRE-CONSTRUCTION INVENTORY

DESCRIPTION:

This work shall consist of providing all necessary inventory to establish, spatially position, measure, navigate to, and verify the locations of all existing and proposed features and measure quantities of items in accordance with the contract documents or as directed by the Engineer. This work includes but is not limited to the location or verification of existing items or of constructed items, and the coordination and sharing of engineering data with BPCA or Engineers.

MATERIALS:

None specified

CONSTRUCTION DETAILS:

Contractor shall complete a detailed inventory of playground equipment and furnishings, including documenting the location, quantities and dimensions of all timber pergolas, gazebo, playground posts and other timber wood elements being replaced, all steel playground components and mesh panels being refurbished and painted, all plastic and nylon playground elements being replaced and/or reinstalled, various hardware, steel picket fences and utility services. Dimensions of existing wood posts and other wood elements shall be utilized for shop drawings depicting replacement in kind. Identification tags referencing plan and elevation drawings shall be placed on all items being removed, and repaired to confirm the location for reinstallation of items. Various details of elements included in the Contract Drawings shall provide information for missing or damaged elements required for completing the Work. Detailed photo log shall be completed as a part of the pre-construction inventory.

Submittals:

- Upon completion of pre-construction inventory, Contractor shall use the information compiled and the Contract Drawings to document the original conditions of all elements to be replaced, refurbished, and/or reinstalled.
- Contractor shall submit drawings including location, size and details of all items to be replaced or refurbished.

BASIS OF PAYMENT:

The cost of all labor and equipment necessary to satisfactorily complete the work shall be included in the Lump Sum price bid item of the Contract.

Progress payments for this item shall be made in proportion to the amount of work completed as approved by the Engineer.

ITEM 05 – TOPOGRAPHIC SURVEY OPERATIONS

DESCRIPTION:

The Contractor shall perform a detailed topographical site survey to establish existing site conditions, baseline elevations and benchmarks for the layout and completion of Work as specified in the Contract documents and as shown on the Contract Drawings. The site survey shall show the exact surveyed location and elevation of all Work in relation to the accepted benchmarks and reference points. This work shall also include the stakeout of existing and proposed features and surface elevations.

MATERIALS:

None specified

CONSTRUCTION DETAILS:

The Contractor shall utilize the services of a New York State Licensed Surveyor to perform all survey work.

Contractor shall:

1. Develop and maintain for the duration of the project all detailed surveys and measurements needed for construction including all working lines and elevations to the satisfaction of the Engineer.
2. Provide and maintain two (2) permanent survey benchmarks of known elevation. The benchmarks shall be the reference point for establishing vertical elevations.
3. Submit stamped and signed survey drawings. Contractor shall revise and resubmit the survey drawings in accordance with Engineer's comments. Engineer's checking and approval of drawings will apply to content only. Contractor shall be responsible for the accuracy and completeness of its Work.

BASIS OF PAYMENT:

The cost of all labor, equipment and materials necessary to satisfactorily complete the work shall be included in the lump sum price bid item of the Contract.

Progress payments will be made in proportion to the amount of work completed as determined by the Engineer.

ITEM 06 – REMOVE AND DISPOSE EXISTING SAFETY SURFACE, PLAYGROUND TYPE

DESCRIPTION:

Under this item the contractor shall carefully remove and properly dispose of existing safety surface, tiles or poured-in-place type, in the locations shown on the Contract Drawings, or as directed by the Engineer.

MATERIALS:

None specified.

CONSTRUCTION DETAILS:

Existing safety surface, tiles or poured-in-place playground type shall be removed and properly disposed.

Existing area of safety surface to remain at the Babies Fountain Area and Gargoyle Spray Pool shall be cut in a neat and workmanlike manner, and the cut edge protected throughout the duration of work for a vertical seam with new safety surface. Damage to existing edges of safety surfaces to remain shall be repaired at the Contractors' expense. Approximate location of these cut edges is shown on the Contract Drawings.

BASIS OF PAYMENT:

The cost of all labor, equipment and materials necessary to satisfactorily complete the work, including removal and disposal, shall be included in the Lump Sum price of this bid item of the Contract.

Progress payments for this item shall be made in proportion to the amount of work completed as determined by the Engineer.

Cutting of underlying concrete at the limit of the porous safety surface to remain shall be paid under Item 07.

ITEM 07 – REMOVE AND DISPOSE EXISTING ASPHALT/CONCRETE UNDERLAYMENT AND BASE MATERIAL

DESCRIPTION:

The work shall consist of the removal and proper disposal of asphalt/concrete underlayment, reinforcement, if present, excavation of existing stone base, and any miscellaneous materials encountered to the required subgrade elevation.

MATERIALS:

None specified.

CONSTRUCTION DETAIL:

Depth of removal shall be 8” unless further removal is necessary to allow the installation of the new safety surface and underlayment of the thickness specified in the Contract Documents. Depth of removal shall account for sloping of safety surface as recommended by the manufacturer. Final subgrade elevation shall be based on the existing finished surveyed elevation minus the specified thickness for safety surface and underlayment.

BASIS OF PAYMENT:

The cost of all labor, equipment and materials necessary to satisfactorily complete the work, including removal and disposal, shall be included in the Lump Sum price bid item of the Contract.

Progress payments for this item shall be made in proportion to the amount of work completed as determined by the Engineer.

Payment for removal of base material from a depth greater than 8” shall be paid on a unit price basis under UP4.

ITEM 08 – REMOVE AND DISPOSE EXISTING ALASKAN CEDAR LAMINATED TURNED ROUND TIMBER POSTS

ITEM 09 – REMOVE AND DISPOSE ALL EXISTING ALASKAN CEDAR LAMINATED TIMBER AND ALL PLAYGROUND WOOD ELEMENTS

DESCRIPTION:

Contractor shall carefully remove and properly dispose of all existing turned round Alaskan Cedar laminated timber posts and other wood elements (various dimensions and lengths) including beams, decking, bridge planks, filler panels, pergolas, carousel gazebo, rafters, lattice, etc. at all locations shown in the Contract Drawings, or as directed by the Engineer.

Prior to removal, each of the posts and wood elements to be replaced shall be measured, located, and detailed, including portions below-grade. This information shall be used in developing shop drawings for new replacement posts and wood elements. The Contract Drawings, along with the location and inventory of all the existing wood posts and elements, shall be utilized in the reconstruction-in-kind. **Payment for measurements, locating and documenting each wood post and wood elements to be removed shall be included in the Lump Sum bid for Item 04 - Pre-Construction Inventory.**

MATERIALS:

None specified.

CONSTRUCTION DETAILS:

All Alaskan Cedar laminated turned round timber posts shall be carefully removed from the existing steel sleeves by any means necessary, assuring the protection of the existing steel sleeves from damage by the Contractor's removal operations. At each post removal location, the existing steel sleeve shall be exposed by localized hand excavation to reveal the base plate and anchor bolts for inspection by the Engineer. After inspection by the Engineer, the sleeves shall either remain for re-use, and excavation backfilled to proposed sub-grade, or replaced or repaired under pay Item #18, as ordered by the Engineer.

Prior to commencing the removal of the existing wood decking and other wood elements, the Contractor shall notify BPCA to allow inspection and determination of reuse or disposal. Pieces deemed salvageable by BPCA shall be carefully removed, stockpiled, and delivered to a nearby BPCA storehouse. Payment for salvaging and delivering of said re-usable materials shall be part of the lump sum bid for this item.

BASIS OF PAYMENT:

The cost of all labor, equipment and materials necessary to satisfactorily complete the work, including removal and disposal, shall be included in the Lump Sum price bid item of the Contract.

Progress payments for this item shall be made in proportion to the amount of work completed as determined by the Engineer.

ITEM 10 – REMOVE/REFURBISH/STORE ALL EXISTING STEEL AND OTHER PLAYGROUND ELEMENTS

DESCRIPTION:

The Contractor shall remove, refurbish, and store all existing steel and other playground elements, including all associated hardware where indicated in the Contract Documents, or where directed by the Engineer. Storage and refurbishing work shall be at the Contractors' shop. Repainting work shall be performed under pay item #14. The duration of storage shall continue until the completed pieces are re-installed. This work item also includes full refurbishment of the existing pedal carousel, including pedal assembly and other moving parts being restored to original condition.

All existing plastic slides and cargo nets shall be replaced-in-kind. Payment to furnish and install the new plastic slides and new cargo nets being replaced-in-kind shall be made under the Lump Sum price bid for Item 17 - Reinstall Existing Steel and Other Playground Elements.

MATERIALS:

All replacement elements and repair materials shall meet or exceed the existing elements in size, material and quality, or the criteria in the Contract Documents. All replacement parts shall be of equal or better quality and shall be approved by the BPCA or by the Engineer.

Contractor shall submit shop drawings detailing the various repair methods, and/or replacement parts for approval by the BPCA or the Engineer.

CONSTRUCTION DETAILS:

All components damaged by the Contractor shall be replaced with in-kind, as directed by the Engineer, at NO expense to the BPCA.

All steel elements covered under this item shall additionally be repainted and reinstalled under separate pay items, except elements having no existing paint, whereas, those existing unpainted elements shall be re-installed without paint work.

METHOD OF MEASUREMENT:

Removal, refurbishment and storage of all existing steel and other playground elements including all hardware and fittings will be measured as a lump sum for all sections or pieces removed (25%) and ready for reinstallation (75%) in accordance with the Contract Documents, and as directed by the Engineer.

BASIS OF PAYMENT:

The cost of all labor, equipment and materials necessary to satisfactorily complete the work, including removal, refurbishing and storage, shall be included in the Lump Sum price bid item of the Contract.

Contractor shall be paid 25% of the lump sum for this item upon removal of all steel and playground elements and 75% of the lump sum for this item once ready for reinstallation to the satisfaction of the BPCA or the Engineer.

ITEM 11 – STABILIZED SOIL - AGGREGATE SUBBASE

DESCRIPTION:

Under this item, the Contractor shall furnish and uniformly place a "Stabilized Soil-Aggregate Subbase" of a natural or artificial mixture of soils and/or crushed materials in the places designated on the Contract Drawings or as determined by field conditions and ordered by the Engineer. The material for this item must be brought in from outside the contract limits at the expense of the Contractor.

MATERIALS:

All material acceptable for this item shall consist of a natural or artificial mixture of soils and/or crushed materials well graded from coarse to fine. Gradation of the granular material shall conform to the proportions indicated below:

<u>Sieve</u>	<u>% Passing</u>
2"	100
1"	80 - 100
1/4"	50 - 85
#10	30 - 70
#40	15 - 40
#200	6 - 12

The material shall also achieve a maximum dry density of not less than 145 pounds per cubic foot at optimum moisture content when tested in accordance with ASTM Designation 01557 – Standard Test Methods for Laboratory Compaction Characteristics of soil using Modified Effort, Latest.

The source of material shall be stripped of all sod, topsoil, overburden and other objectionable materials before the excavation operations for the material are started, and shall be kept stripped for a minimum of thirty (30) feet from the top of the working face of the source at all times. Should, at any time during work and for any reason the material fails to conform to the specified quality and gradation requirements, the Contractor shall, by the addition of selected acceptable material, and/or satisfactory manipulation, produce a material meeting the requirements detailed herein.

Control graded recycled Portland Cement Concrete and recycled plant mixed bituminous concrete materials may be used in conjunction with or in place of native materials to construct the stabilized soil base course item, provided the materials comply with all requirements herein. The final gradation obtained from the intermixing of coarse, fine and binder materials shall be within the limits stated for this item.

If the Contractor chooses to utilize recycled materials, he shall submit a written request to the BPCA or the Engineer and provide a Laboratory analysis of the material. Final approval will be made on the basis of the submitted laboratory analysis. Work shall not start until such approval is received.

The coarse fraction of the recycled material shall have a resistance to abrasion by the Los Angeles Abrasion Test of not more than 50%, (ASTM C131), nor show a total soundness loss greater than 25 percent using magnesium sulfate (ASTM C88). Of the particles retained on the 1/2" square sieve, not more than 30 percent by weight shall consist of flat or elongated pieces. A flat or elongated piece is defined herein as one, the greatest dimension of which is more than 3 times the least dimension.

The fine aggregate portion passing the No. 200 sieve shall not be greater than two-thirds of the fraction passing the No. 40 sieve, as determined by the wet analysis method. The fraction passing the No. 40 sieve shall have a liquid limit not greater than 25, and a plasticity index not greater than 4.

SUBMITTALS:

The Contractor shall submit, in writing, all third party testing results to the Engineer.

The Contractor shall submit shop drawings for approval prior to construction.

CONSTRUCTION DETAILS:

No material shall be placed until the material has been sampled, tested, and approved in writing, by the Engineer. It shall be the duty of the Contractor to furnish suitable and approved excavating equipment for such sampling.

Excavation:

The Contractor in accordance with the plans, specifications and requirements herein shall perform all earthwork operations required to achieve the proposed grades. This includes but is not limited to excavation, filling, grading, compaction, removal and replacement of unsuitable materials, disposal of any surplus materials, importation of fill in borrow situation if required, any unforeseen items required to be removed in order for the work under this contract to be properly installed, and all other earthwork required as indicated on the Contract Documents, and/or as directed by the Engineer.

Excavation will include any structures indicated on the plans for removal in proposed subbase areas, and not paid for under any other item, shall be included in this item.

Placing:

The spreading of any layer of subgrade shall be done with spreader equipment approved by the Engineer, and shall be spread to such thickness that the maximum depth of the layer, after compacting, will be as shown on the plans. The soil base shall not be in muddy or frozen condition. The material, as spread, shall be well graded, with no pockets of fine material. Segregation occurring during the spreading operation shall be corrected by remixing until a homogeneous mixture has been obtained.

Water shall be added in such amounts as the Engineer may consider necessary to obtain satisfactory compaction. Six (6) percent moisture shall be a guideline for the optimum moisture content, unless specific moisture density report on the base course material reveals otherwise. It shall be the contractor's responsibility to properly place and compact the stabilized soil aggregate subbase, and to correct any deficiencies occurring during the contract period.

The Contractor shall obtain a density of 95 percent standard proctor of maximum dry weight density in pounds per cubic foot as determined by A.S.T.M. Designation: D698-78.

Preparing Fine Grade:

Before any paving material is placed upon the fine grade, it shall be shaped to line and grade and compacted with an approved compaction equipment . All hollows and depressions which develop under rolling shall be filled with acceptable material conforming to the requirements of Item 12 and shall again be rolled. This process of shaping, rolling and filling shall be repeated until no depressions develop. After compaction, the top surface of the fine grade shall not extend above nor more than ½” below, true grade and surface at any location. The subgrade shall not be muddy nor otherwise unsatisfactory when the pavement is placed upon it. If the fine grade becomes rutted or displaced due to any cause whatsoever, the Contractor shall regrade same without additional payment.

Any scarified old macadam used for the subgrade shall be forked or raked over, after which the surface shall be compacted by rolling with a self-propelled roller weighing not less than 10 tons until an even and firm surface is produced, after which suitable earth, fine gravel or screenings shall be used to fill all voids, and again rolled. If necessary in order to satisfactorily compact the subgrade, the surface may be sprinkled with water during the process of rolling and filling.

In all cases, the subbase course must be so thoroughly compacted that significant rutting under the action of the compactor is not observed in the final passes on a lift. Rolling must begin at the sides and continue toward the center and shall continue until there is no movement of the course ahead of the roller.

After compaction, the top surface of this course shall be tested for smoothness and accuracy of grade and pitch with a sixteen (16) foot edge. Any portion found to vary by more than three-eighths of an inch in sixteen feet shall be scarified, reshaped, recompact, finished and otherwise completed to the above tolerance, and approved by the Engineer, before any succeeding course is placed at that location. Any depressions or holes shall be filled with approved material meeting the requirements for this item and the surface re-rolled.

No traffic, or hauling other than that necessary for bringing material for the next course, shall be permitted over this course.

The Contractor shall assume full responsibility for any contamination and/or degradation of any part of this course during construction and shall, at his own expense, remove any and all portions of this course which do not conform to the requirements of these specifications and replace these portions with specified material.

TESTING:

Upon completion of the stabilized soil-aggregate subbase, the Contractor shall request an inspection by the Engineer and shall not proceed with further pavement work until inspection has been made and the work approved. In addition, witness testing of subgrade base density must be performed by an independent testing laboratory in the presence of the Engineer prior to approval being granted for paving.

It is the Contractor's responsibility to coordinate and schedule third party testing to confirm the requirements are being met. All costs associated with testing and correcting deficiencies shall be included in the unit price bid for this item.

BASIS OF PAYMENT:

The cost of all labor, equipment, materials and testing necessary to satisfactorily complete the work, shall be included in the Lump Sum price bid item of the Contract.

Progress payments for this item shall be made in proportion to the amount of work completed as determined by the Engineer.

ITEM 12 – ASPHALT CONCRETE UNDERLAYMENT

DESCRIPTION:

Under this item, the Contractor shall construct a hot, plant-mixed bituminous concrete pavement. It shall be laid on a prepared surface in accordance with these specifications and in conformity with the required lines, grades, thicknesses, and typical sections shown on the plans and/or as directed by the Engineer.

MATERIALS:

Asphalt concrete underlayment shall consist of an asphalt binder course meeting the requirements of the New York State Department of Transportation Standard Specification Section 403 Hot Mix Asphalt (HMA) Pavements for Municipalities – Type 3 Binder Course.

The binder course bituminous material shall meet the requirements of ASTM Designation: D 3381-81 Viscosity Grade AC-20. All materials used in the binder course mix including the bituminous material shall be proportioned as specified under the following table “Composition of Mixture”:

COMPOSITION OF MIXTURE

SCREEN SIZES	GENERAL LIMITS PERCENT PASSING	JOB MIX TOLERANCE
1 ½”	100	--
1”	95-100	--
½”	70-90	±6
¼”	48-74	±7
1/8”	32-62	±7
No. 20	15-39	±7
No. 40	8-27	±7
No. 80	4-16	±4
No. 200	2-8	±2
Asphalt Cement, %	4.5-6.5	±0.4
Mixing and Placing Temperature Range °F Description and Typical Uses	250-325 Dense intermediate coarse with relatively low permeability	

Notes:

1. All aggregate percentages are based on the total weight of the aggregate. The asphalt content is based on the total weight of the mix.
2. The asphalt cement shall be introduced into the pugmill at a temperature compatible with that of the aggregate between the limits of 225°F and 350°F.

CONSTRUCTION DETAILS:

1. Asphalt Base Course: Minimum surface temperature of 40°F and rising at time of placement.

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2. Sawcutting shall be along straight neat lines as indicated on the plans or where ordered by the Engineer. .
 3. Preparation of Surface: Prior to placing the binder course, any defective areas of subbase shall be repaired as directed by the Engineer. Before any asphalt paving is placed, the surface shall be thoroughly swept and cleaned of all dirt, loose and foreign matter and be free from standing water.
 4. The surface mixture shall be brought to the site in covered trucks so as to maintain a minimum temperature at time of placing of not less than 275°F. It shall be deposited and spread by means of an approved mechanical spreader to a depth, which after final compaction, shall be of the required minimum thickness. No walking will be permitted on the surface mixture during the laying operations.
 5. The surface mixture shall be rolled immediately after placing or as soon as practicable without causing displacement. Rolling shall proceed continuously at the rate not to exceed 400 square yards per hour per roller. Rolling shall be done utilizing a “break down” roller and a “finishing” roller both of sufficient weight so that at completion the surface shall be fully compacted and smooth, free from all depressions, waves, bunches and unevenness. Rollers must be minimum 1-ton static and must have functional water spray at time of use. The laying and rolling operations shall be planned so as to provide nearly a continuous operation as possible and to allow the roller to pass over the unprotected end of the freshly laid asphalt. Placing asphalt next to cold joints will not be permitted. The Contractor shall, when directed by the Engineer, cut back or heat joints with infrared heaters to ensure proper bond between paving passes.
 6. All paving that is defective in composition, density, grade (irregular by more than 1/4-inch when measured with a 10-foot straight edge) or does not otherwise comply with the plans and specifications, shall be removed by the Contractor and re-laid at no additional expense to the BPCA.
 7. Required period for paving is April 15 to November 15 otherwise written permission must be requested and approved by the Engineer.

Application of Tack Coat:

It shall be applied only when the surface is clean and dry or but slightly damp and unless otherwise permitted when the surface temperature is not less than 50°F. The asphaltic tack coat shall be applied for the full width by means of a pressure distributor at a temperature falling within the specified range. Allow tack coat to cure undisturbed before applying hot-mix asphalt paving.

BASIS OF PAYMENT:

The cost of all labor, equipment and materials necessary to satisfactorily complete the work shall be included in the Lump Sum price bid item of the Contract.

Progress payments for this item shall be made in proportion to the amount of work completed as determined by the Engineer.

ITEM 13 – NON-POROUS POURED-IN-PLACE PLAYGROUND SAFETY SURFACE

DESCRIPTION:

Provide all necessary materials, labor, and equipment to install a non-porous thermoplastic aliphatic polyurethane surfacing system designed to be used as the impact attenuating surface for playground areas over asphalt underlayment. The poured-in-place surface shall be designed for impact attenuation of a 10-ft critical fall height as defined by ASTM 1292.

REFERENCE:

ASTM F1292 Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment

MATERIALS:

The safety surface shall consist of a top layer and an impact layer as manufactured by AquaFlex or approved equal and as specified below:

1. Top Layer:

- Top layer shall consist of a non-porous aliphatic thermoplastic polyurethane Pebbles and aliphatic polyurethane Binder. The Binder/Primer shall be a two-part aliphatic, chlorine-resistant polyurethane.
- Any equal product granule or pebble must be aliphatic polyurethane based; not rubber based such as EPDM, TPV, polyolefin-based TPE; must include a two-part aliphatic polyurethane binder proven to be chlorine resistant and must be 100% color. Recycled black material is not acceptable.

2. Impact layer:

- The impact layer is to be made of rubber and a binder with a minimum thickness as recommended for a critical fall height of 8'-0" throughout entire site meeting ASTM F1292.
- The impact layer can be a composite of foam and SBR rubber or SBR rubber alone. The foam material shall be 100% recycled cross-linked, closed-cell polyethylene foam that is heat-sealed together. The SBR rubber is to be a 50/50 blend of short strand and granular.
- The binder to be used shall be a single component aromatic polyurethane Binder/Primer.

Finish texture shall be Pebble grain.

Color: Selected from Manufacturer's color chart and shall be a light colored matrix submitted as samples, and mixed on site to the ratios in the approved sample.

Submittals

Contractor shall submit the following:

- Manufacturers Product Data and specifications
- ASTM 1028 Skid Resistance Test.
- Color samples of various light-colored matrix for review and approval by BPCA.
- Written statement on manufacturer's letterhead certifying that the top surface will be light stable for a period of 3 years from date of installation.
- Test results from a Zenon Arc Weatherometer exposure test from a third party shall be submitted by the installer to the requiring agency prior to installation of the surface. The surfacing system (top layer) shall be tested for a minimum of 10,000 hours and show not less than 15% tensile strength (PSI) degradation.
- Written manufacturer's warranty for water playgrounds.
- A product liability insurance certificate showing project owner as certificate holder.
- MSDS and Product data sheets for items.
- Impact attenuation test results prior to installation of the surface. The results shall be submitted on the letterhead of the independent testing lab. Impact attenuation results must comply with ASTM 1292 Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment for the critical fall height of the equipment.

CONSTRUCTION DETAILS:

The installation of the new surface shall be completed by Surface America Inc. Certified Installer, or approved manufacturer's certified installer. Manufacturer's detailed installation procedures shall be submitted for approval prior to installation.

Certified installer shall follow the installation instructions included herein and as recommended by the manufacturer.

Surface Preparation - Asphalt

New asphalt must be at least 15 days old. Asphalt shall be broom scrubbed using a degreaser to remove any surface oils and power washed to remove any contaminants off the surface. Allow 24 hours for the surface to dry. AquaFlex CANNOT BE INSTALLED OVER ASPHALT CURED FOR LESS THAN 15 DAYS. Asphalt shall have a minimum of 1/8"/ft. slope to a drain to ensure proper drainage.

Surface Preparation - Concrete

If AquaFlex is being applied directly to concrete, then the concrete must be cured for at least 28 days. If an SBR layer is used between the concrete and AquaFlex, then the concrete must be cured a minimum of 14 days. New concrete must be light broom finish and can be prepared simply by acid etching. Add acid slowly

to water in clean polyethylene buckets at a ratio of eight parts water to one part acid. Care should be taken to prevent splashing on workers. Protective clothes such as safety glasses, rubber gloves, boots, etc. should be used. The acid solution should be used on the concrete at a rate of 100 square feet per 5 gallons of acid solution. Concrete needs to be damp before applying acid. Using a stiff broom, scrub acid solution into the surface where the solution was poured and continue the process to other areas. Never let the concrete dry with acid on it. After 5 minutes, rinse the concrete with large amounts of clean water to remove all the acid solutions, and then allow the concrete to dry. Old concrete that is contaminated with grease or oil can be cleaned with a power-washer. Use a degreasing agent before power-washing. For concrete where a power-washer cannot be used, a diamond grinder can be used to lightly grind the surface to remove contamination. Concrete shall have a minimum of 1/8"/ft. slope to a drain to ensure proper drainage.

Concrete or asphalt base must have adequate drains to prevent water from backing up into the surface.

Surface Preparation – Metal Preparation

All metal surfaces must be rigid and structurally sound. Contamination such as grease, oil and dirt must be removed prior to coating. Rust or scale should be removed through mechanical means such as sanding or sand-blasting. The surface should be abraded until bright metal is showing. If the surface is to be exposed for an extended period of time, it should be treated with a 10% phosphoric acid solution to prevent new rust formation.

Foam Panels

The foam panels should be laid out in accordance with the splash pad design including the appropriate use zone. Cut the foam to fit around the legs of the equipment. Leave a gap of 1" between all the panels during the installation. Over concrete, adhere the foam to the sub-base using AquaFlex® two-part epoxy primer. Over the foam, prime the surface using AquaFlex single component binder/primer cut with 5% xylene. Apply a minimum of 1 1/8" of SBR Buffings over the top of the foam panels creating a consistent and even surface.

SBR Buffings

Over concrete, adhere the SBR to the concrete by applying a coat of AquaFlex single component aromatic polyurethane binder diluted with 5% xylene over the entire surface. Over foam panels, adhere the SBR to the foam by applying a coat of the above AquaFlex binder mixture over the entire surface. For surrounding curbing, prime the vertical surface of the curb using the above binder/primer mixture. Mix two 50-pound bags of SBR buffings (50/50 short strand/ granular mix) with 8 quarts of AquaFlex single component aromatic polyurethane binder so that the buffings are covered evenly. Spread the mix and trowel to the appropriate depth immediately after the application of the primer. Against curbing taper the SBR at a 45-degree angle so that the mixture is no less than 1" lower than the keyway cut in the curbing. Let cure.

Sealing

Premix AquaFlex HC aliphatic two-component Binder/Primer in a plastic pail with a paddle mixer and add 2 times the volume of primer of calcium carbonate to thicken the liquid to a paste consistency. Pour the entire mixture onto surface in a tight line. Using a hand float rubber squeegee pull the material over the surface making sure to cover the entire surface filling all voids, or use rubber hand squeegee to cover the surface filling all voids. Let cure until tack free.

AquaFlex Mixing and Finishing

Mix a ratio of 50 pounds large pebbles to 50 pounds of small pebbles creating 100 pounds of AquaFlex pebbles in a mortar mixer. Pre-mix 2.14 gallons of AquaFlex HC aliphatic two-component binder in an appropriate plastic container with a paddle mixer. Add the premixed 2.14 gallons of binder to the pebbles in the mortar mixer. Mix thoroughly so that all pebbles are covered evenly. Dump the mix onto the area and spread it with a cam rake or screed box at a thickness of 7/16". Fresno the area keeping the surface as level as possible. Hand or power-trowel the surface using a solution of AquaFlex Trowel Slick to lubricate the surface of the trowel. This will allow easier manipulation of the trowel. Do not use water on the surface as a troweling aid. The compounded mixture will compress to approximately 1/2". Let the surface set for 72 hours.

Vertical Surfaces

For vertical surfaces to receive the safety surfacing, prime the vertical surface of the curb, step risers, and/or play equipment posts using the SBR Binder. Binder shall not be applied on vertical surfaces above the elevation of the top layer ensuring no primer is exposed after installation is complete. Mix one fifty-pound bag of SBR buffings with 8.14 pounds of aromatic polyurethane binder so that the buffings are covered evenly. Spread the mix and trowel to the appropriate depth. Let cure.

Large Areas

All areas in excess of 1,800 square feet, or areas that require adjacent color pours due to designs, shall have this work done in strict accordance with the manufacturer's installation requirements with adjacent poured layer surfaces being flush throughout. The installer shall employ proper techniques to ensure that no gaps or separation will occur. All cold joints must be coated with binder prior to the application of the adjacent top layer, or other existing safety surface remaining.

Temperature

Temperature shall remain above 50 degrees F. throughout the entire installation and curing processes. Surface shall be dry, and no rain in the immediate forecast upon starting installation.

Other Surfaces

Existing manholes, valve boxes, and other castings to be covered over by the new safety surface system shall be formed and poured with a different top layer color matrix than the general area to identify and locate for maintenance. Submit details and procedures where manhole covers are encountered for approval by the BPCA prior to installation. All curbs, step treads, and step risers having existing safety surfacing shall be resurfaced with the new safety surface system after removal of existing surfacing system.

Cleaning

The contractor should clean the job site and remove any excess materials. The contractor shall instruct the owner's personnel on proper maintenance and repair of the AquaFlex surface.

PRECAUTIONS:

Protect the installed playground safety surface from damage resulting from subsequent construction activity on the site.

Warranty: Provide warrantee from manufacturer for minimum of 3 years after installation.

PAYMENT:

The cost of all labor, equipment, materials and testing necessary to satisfactorily complete the work shall be included in the Lump Sum price bid item of the Contract. Payment shall be made upon completion and receipt of warranty. There shall be no partial payment for this item.

ITEM 14 - ALL PLAYGROUND STEEL ELEMENTS PAINTING

DESCRIPTION:

This work includes in-shop surface preparation, priming and painting of refurbished steel play unit elements. The play unit elements not painted (i.e. stainless steel firemen's poles, ladders, climbers, etc.) shall remain unpainted.

Field painting will not be allowed unless requested in writing to the Engineer, and written consent is given by the Engineer.

All steel elements covered under this work item shall additionally be stored, refurbished and reinstalled under separate respective pay items. No additional payment shall be made for handling and transportation of steel elements.

REFERENCES:

Codes and standards referred to in this Section shall be as follows:

SSPC - The Society of Protective Coatings (formerly of Steel Structures Painting Council)

SSPC-SP 10 Near white cleaning

SUBMITTALS:

Contractor shall submit Shop Drawings for approval of the Engineer. Submittals shall include, but not be limited to:

- Color Chart: The Contractor shall submit the manufacturer's chart for color selection for painting of items. Colors shall match existing.
- List of paint products with mil thickness and solids by volume. The list shall be in accordance with the requirements of this Section and the recommendations of the paint manufacturer.
- **Applicator's Quality Assurance:**

Submit list of a minimum of 3 completed projects of similar size and complexity to this work. Include for each project:

Project name and location

Name of owner

Name of contractor

Name of engineer

Name of coating manufacturer

Approximate area of coatings applied.

Date of completion.

- **Warranty:** Submit manufacturer's standard warranty.

MANUFACTURERS AND MATERIALS:

- All coats of paint for any particular surface shall be from the same manufacturer.
- Paint shall be of approved color as selected by the Engineer.
- Proprietary protective coatings included herein by brand name or trade mark are given solely as standards of quality and for bidding purposes and do not preclude the use of an approved equivalent.
- Unless specified otherwise, the proprietary protective coatings of the manufacturer's latest products in regular production on the date of receipt of order shall be provided.
- Equivalent products shall be of a standard, regularly produced product of a manufacturer. Equivalent products shall be submitted on their applicable published printed literature that states the generic type, instructions for use, solids by volume, application rates, and chemical components of vehicles and solids. Should the manufacturer's literature of the product being offered call for higher film thickness, the greater film thickness shall be applied, and the submitted schedule shall so state.

Paint Information			
Coat	Product Name and Number	Volume Solids %	Dry Film Thickness (DFT) Mils per Coat
Primer	Carboline: Carboguard 60/61 or Carboguard 635	72 65	3.0-6.0 3.0-6.0
	Sherwin Williams: Copoxy Shop Coat Primer	72	2.0-4.0
	International Paint: Interseal 670 HS or Bar Rust 233HS	82	3.0-6.0
Finish Coats	Sherwin Williams: Macropoxy 646 PW	72-98	4.0-6.0 Up to 50 Mils
	International Paint: Interseal 670 HS or Bar Rust 233HS	82	3.0-6.0
	Carboline: Carboguard 61/691 Carboguard 635	80-100 65	4.0-8.0 4.0-8.0

CONSTRUCTION DETAILS:

Surface Preparation

Surface preparation prior to painting shall be in accordance with the following guidelines and as recommended by the painting material manufacturer.

All visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products and other foreign matter shall be removed by compressed air nozzle blasting, centrifugal wheels or other specified method. Discoloration caused by certain stains shall be limited to no more than 5 percent of each square inch of surface area in accordance with Society of Protective Coatings (SSPC-SP10).

Application

- All painting and coatings shall be shop-applied in accordance with the manufacturer's recommendations and approved submittals. **All steel play units shall be provided with shop coats of primer and two finish coats.**
- To prevent intercoat adhesion failure, recoating must be performed within the manufacturer's recommended recoat window, or 14 days, whichever is shorter.
- All paint shall be thoroughly mixed with mechanical mixers in accordance with the manufacturer's recommendations. After mixing, the bottom of the container shall have no unmixed pigment.
- Painting shall not begin until cleaned surfaces have been inspected and approved by the Engineer.
- All paint shall be applied to produce a uniform, even coating, free of runs, sags, drips, ridges or other defects.
- Paint shall be applied to produce the specified dry-film thickness (DFT). Areas failing to meet the specified minimum dry-film thickness shall be top coated with the same paint to produce the total dry film thickness required. The top coating must be performed within the paint manufacturer's specified recoat window
- Touch-up of any and all damaged portions and imperfections of in shop-primed and finished items shall be accomplished using the same paint as used for the shop prime and finish. Surface shall be prepared prior to touch-up by wire brushing and sanding to remove rust, scale and loose paint.

Quality

The Contractor shall rectify any failures or breakdowns, loosening of the paint or coatings within a year after acceptance of work, regardless of the paint systems used. This will require removal of the entire coating where failure occurs and repainting with the coating system previously specified. Patching will not be allowed

Inspection

- The Contractor shall provide adequate access, suitable lighting, and time for inspections to be made in the shop. Any work done while the Engineer has been denied, or restricted from access, shall be recleaned and repainted at no additional cost to the BPCA
- Contractor shall allow inspection of the surface preparation prior to applying finish coats.

BASIS OF PAYMENT:

The cost of all labor, equipment and materials necessary to satisfactorily complete the work in shop and touch-up in the field shall be included in the Lump Sum price bid item of the Contract.

Progress payments will be based on the percentage of steel cleaned and painted. 50% of the lump sum bid will be paid for surface preparation and priming. The remaining 50% will be paid following the finish coats and satisfactory completion of work.

ITEM 15 - FURNISH AND INSTALL NEW TO REPLACE EXISTING ALASKAN CEDAR LAMINATED TURNED ROUND TIMBER POSTS, REPLACE WITH NON-LAMINATED EQUIVALENT POSTS

ITEM 16 – FURNISH AND INSTALL NEW TO REPLACE ALL EXISTING ALASKAN CEDAR LAMINATED TIMBER AND WOOD ELEMENTS, REPLACE WITH NON-LAMINATED EQUIVALENT ELEMENTS

DESCRIPTION:

Under these items the Contractor shall replace all existing Alaskan Yellow Cedar Laminated Turned Round Timber Posts and Alaskan Yellow Cedar laminated and/or solid timber wood elements at the Playground, in various sections and configurations, at the locations and to the dimensions shown on the pre-construction survey and on the Contract Drawings **with non-laminated equivalents**. Posts and Wood Elements include, but not limited to, posts, beams, decking, bridge planks, filler panels, pergolas, carousel gazebo, rafters, etc. at all locations shown in the contract plans, or as directed by the Engineer.

The 1” x 1” continuous vertical lattice panel along the sidewalk side of the South Pergola does not require replacement. All other elements of Pergolas shall be replaced.

MATERIALS:

Alaskan Yellow Cedar turned round timber playground posts 4.5”, 6” or 8” Diameter and 8”x 8” at a variety of lengths. Posts shall be kiln dried Alaskan Yellow Cedar turned round timber grade #1 or better if overall length is greater than 10 linear feet. Posts with overall length less than 10 linear feet shall be from solid select for appearance and seasoned dry peeled logs.

All Alaskan Yellow Cedar Wood Elements other than posts shall be from solid Alaskan Yellow Cedar Grade C and better clear kiln dried with a smooth finish.

Alaskan Yellow Cedar turned round timber posts and solid wood elements shall be as provided by Bear Creek Lumber Inc., Winthrop, WA; or approved equal.

All posts, decks, beams, steps, filler panels, rails and other wood elements shall be pressure treated with a water-borne wood preservative conforming to the requirements herein specified.

WOOD PRESERVATIVE:

Waterborne wood preservatives shall be Alkaline Copper Quaternary (ACQ), Copper Azol, or Ammoniacal Copper Arsenite (ACA) conforming to the requirements of American Wood-Preservers' Association Standard P5. No Chromated Copper Arsenate (CCA) treatment shall be utilized.

Waterborne wood preservatives shall be applied in conformance with American Wood Preservers' Association Standards C1, C2, C3, C4, C5, C14 and C18. Minimum net retention shall be as required for material in contact with soil.

BASIS OF ACCEPTANCE:

Acceptance of this material shall be in accordance with procedural directives of BPCA.

Alaskan Yellow Cedar Turned Round Timber shall be sound, free from loose knots or decay, and with no through checks on tops or butts. Posts, beams, decking, and other miscellaneous wood components shall be machine peeled to a smooth uniform appearance and free from all inner bark.

The Playground posts and other elements shall conform to the existing dimensions or as shown on the Contract Drawings and be constructed from the wood specified above.

Fittings and Fasteners

Material for fittings and fasteners shall be hot dipped galvanized A307 steel with a 60,000 psi tensile strength.

CONSTRUCTION DETAILS:

The contractor shall furnish and install Alaskan Yellow Cedar Turned Round Timber Playground post and other wood elements, plumb and true to the lines, grades, and limits established and according to the details as shown on the Contract Drawings and as directed by the Engineer.

Slotted wood beams which cover steel beam members of play units shall be through bolted to the steel member upon replacement, in lieu of the previous connection (construction adhesive). All finished timber elements shall have eased edges and corners. All protruding hardware shall be countersunk into wood elements.

All work shall be completed in a workman-like manner and in accordance with acceptable construction practices to ensure a neat and finished appearance.

METHOD OF MEASUREMENT:

The quantity of Alaskan Yellow Cedar Laminated Turned Round Timber Posts (of various size sections) to be paid shall be the linear feet of post (above and below grade) furnished and placed as shown on the Contract Drawings. Cost shall include fitting into sleeves, various woodworking required for fitting of attachments, and all associated hardware to anchor to existing sleeves.

All Alaskan Yellow Cedar Wood Elements furnished and installed in the Playground, Pergolas, Gazebo areas, shall be paid as a Lump Sum. The Lump Sum bid shall include furnishing all wood elements, all woodworking required for fitting and attaching other elements, and all new hardware to install to match existing.

BASIS OF PAYMENT:

The cost of all labor, equipment and materials necessary to satisfactorily complete the work, including milling and drilling for attachments, fitting and bolting post bottoms into steel anchor sleeves, and other incidentals necessary to complete the work in accordance with this specification and to the satisfaction of the Engineer shall be included in the Lump Sum price bid item of the Contract.

Progress payment shall be made at 25% upon delivery, and remaining 75% upon installation, to the satisfaction of the Engineer.

ITEM 17 - REINSTALL EXISTING STEEL AND OTHER PLAYGROUND ELEMENTS

DESCRIPTION:

Contractor shall furnish and reinstall:

- All new plastic slides and associated hardware to match existing in quantity and dimensions.
- All new cargo net assemblies and associated hardware to match existing in quantity, color, and dimensions.
- All steel suspension elements including cables and associated hardware replaced in-kind, with the exception that the replacement elements shall be stainless steel.

Contractor shall reinstall:

- All existing refurbished steel and other playground elements, including new hardware and fittings

All playground elements shall be installed in original locations, where indicated in the Contract Documents or where directed by the Engineer.

All existing suspension elements including cables and chains must be replaced-in-kind, with the exception that the replacement elements shall be stainless steel. All existing hardware and fittings shall be replaced in-kind, with the exception that the replacement hardware and fittings shall be stainless steel. Payment to manufacture and install the new suspension elements, cables, chains, hardware and fittings to be replaced-in-kind shall be made under the Lump Sum price bid for Item 17 - Reinstall Existing Steel and Other Playground Elements. No additional cost to BPCA will be allowed.

Suspension Bridge shall be installed with head clearance as shown on the Contract Drawings in lieu of the clearance existing at time of the Pre-Construction Inventory. New suspension elements shall be coordinated accordingly.

MATERIALS:

All replacement and repair materials shall meet contract drawing criteria specified in the existing details. All replacement parts should be of equal or better quality and approved by the BPCA, or by the Engineer.

Contractor shall submit shop drawings for new plastic slides, new cargo net assemblies, and new suspension elements and hardware for approval by the BPCA or the Engineer.

CONSTRUCTION DETAILS:

All existing steel and other playground elements including all hardware and fittings which was previously removed, refurbished, and stored, shall be reinstalled in accordance to Contract Documents, preconstruction survey and to the satisfaction of the Engineer.

All components damaged by the Contractor shall be replaced with in-kind, as directed by the Engineer, at NO expense to BPCA.

BASIS OF PAYMENT:

The cost of all labor, equipment and materials necessary to satisfactorily complete the work in shop and touch-up in the field shall be included in the Lump Sum price bid item of the Contract.

ITEM 18 - REPAIR SPALLING AND/OR CRACKS ON EXISTING PRE-CAST CONCRETE TABLE/SEATS

DESCRIPTION:

The work included in this item shall consist of furnishing all labor, materials, and equipment to perform all work necessary for preparing and repairing spalled or cracked areas of all the existing pre-cast concrete tables or seats in-place within the site limits

REFERENCES:

ASTM C33 - Concrete Aggregates.

ASTM C881 - Epoxy-Resin Base Bonding System for Concrete.

ACI 503.4 - Standard Specification for Repairing Concrete with Epoxy Mortars.

ACI 546 - Guide to Concrete Repair

MATERIALS:

EPOXY BONDING AGENT:

Epoxy bonding agent shall conform to ASTM C881 Type I, II, IV or V; Grade 2 for epoxy resin adhesives, depending on the application. The class of epoxy bonding agent shall be suitable for all ambient and substrate temperatures.

The epoxy bonding agent resin shall be:

- Sika Armatex 110 as manufactured by Sika Corp. Lyndhurst, NJ.
- CR 246 as manufactured by Sto Concrete Restoration Division, Atlanta, GA.
- Duralbond as manufactured by Tamms Industries Co., Kirkland, IL.
- Or an approved equal.

ANTI-CORROSION COATING:

Anti-corrosion coating shall be a two-component, polymer-modified cementitious material.

Coating material shall be:

- Sika Armatex 110 as manufactured by Sika Corp., Lyndhurst, NJ.
- CR 246 manufactured by Sto Concrete Restoration Division, Atlanta, GA.
- Or an approved equal.

STRUCTURAL CRACK REPAIR MATERIAL:

Structural crack repair material shall be a two-component, polymer-modified cementitious mortar and shall conform to EPA/USPHS standards for surface contact with potable water supplies.

Structural crack repair (patch repair) material shall be:

- Sikatop 123 Plus as manufactured by Sika Corp., Lyndhurst, NJ.
- CR 735 Trowel-Grade Mortar as manufactured by Sto Concrete Restoration Division, Atlanta, GA.
- Duraltop Gel as manufactured by Tamms Industries, Kirkland, IL.
- Or an approved equal.

EPOXY CRACK REPAIR BINDER:

Epoxy crack repair binder shall be a two-component, 100 percent solids, high-modulus, low viscosity epoxy adhesive designed for structural repair.

Epoxy crack repair (injection repair) binder shall be:

- Sikadur 35-Hi-Mod LV as manufactured by Sika Corp., Lyndhurst, NJ.
- CR 633 Epoxy Binder as manufactured by Sto Concrete Restoration Division, Atlanta, GA.
- Duralcrete LV as manufactured by Tamms Industries, Kirkland, IL.
- Or an approved equal.

SPALL REPAIRS NOT REQUIRING FORMWORK:

Spall repairs not requiring formwork shall be repaired using a two-component, polymer-modified cementitious mortar and shall have a minimum 28-day compressive strength of 7,000 psi.

Spall repair mortar for use in horizontal applications shall be:

- Sikatop 122 Plus as manufactured by Sika Corp., Lyndhurst, NJ.
- CR 700 as manufactured by Sto Concrete Restoration Division, Atlanta, GA.
- Duraltop Fast Set as manufactured by Tamms Industries, Kirkland, IL.
- Or an approved equal.

Spall repair mortar for use in vertical applications shall be:

- Sikatop 123 Plus as manufactured by Sika Corp., Lyndhurst, NJ.
- CR 702 as manufactured by Sto Concrete Restoration Division, Atlanta, GA.

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- Duraltop Gel as manufactured by Tamms Industries, Kirkland, IL.
 - Or an approved equal.

All spall repair materials shall conform to EPA/USPHS standards for surface contact with potable water supplies.

SUBMITTALS:

The Contractor shall submit Shop Drawings and material specifications for the approval of the Engineer. Submittals shall include, but not be limited to:

- Proposed methods and corresponding area to be repaired.
- Samples of all materials proposed to be used.
- Material certifications and technical data sheets on all grouts, mortars, chemical resins, sealers, aggregates and repair products specified.

CONSTRUCTION DETAILS:

All Work shall be performed during dry weather and appropriate temperature conditions in accordance with the manufacturer's recommendations. All unfinished work shall be protected during inclement weather with tarpaulins or heavy gage polyethylene sheeting. All Work in spaces within structures shall be performed at temperature and conditions suitable for proper curing in accordance with the manufacturer's recommendations.

Concrete rehabilitation Work shall be coordinated and sequenced by the Contractor. Scaling, broken, loose and disintegrating materials shall be removed by use of hand tools or power driven saws, down to solid unyielding material.

Scaling, broken, loose and disintegrating materials shall be removed by use of hand tools or power driven saws, down to solid unyielding material.

All surfaces shall be thoroughly cleaned of efflorescence, oils, grease and other objectionable material in area to be repaired in accordance with the manufacturer's recommendations.

Epoxy Bonding Agent:

As directed by the Engineer, an epoxy bonding agent shall be used to adhere fresh repair material to existing concrete. Existing concrete surfaces shall be roughened prior to application of bonding agent. Concrete surface shall be clean and sound, free of all foreign particles and laitance. Repair material shall be placed while bonding agent is still tacky. If bonding agent cures prior to placement of repair material, bonding agent shall be reapplied.

Repairing concrete with epoxy mortars shall conform to all the requirements of ACI 503.4 and ACI 546, and as specified herein.

Anti-Corrosion Coating:

Reinforcing steel cut or exposed during alteration and/or repair operations shall be sandblasted, cleaned and coated with an anti-corrosive coating.

Coating shall thoroughly cover all exposed parts of the steel and shall be applied according to manufacturer's recommendations.

Structural Crack Repair:

As directed by the Engineer, all existing structural cracks 1/16-inch and wider to be repaired shall utilize a structural crack repair material. Rout crack to 3/4-inch wide by 3/4-inch deep V-notch to expose sound concrete.

Where rebar has deteriorated, crack shall be routed to expose 3/4 inch all around rebar. The resulting void in concrete shall be patched flush with the existing concrete surface using structural crack repair material.

Epoxy Crack Repair:

Cracks 1/4-inch and Narrower: As directed by the Engineer, all existing structural cracks 1/4-inch or narrower to be repaired shall be pressure injected an epoxy crack repair binder into the prepared crack. Crack surface shall be sealed and injection ports installed per manufacturer's recommendations.

Holes drilled for injection ports shall not cut rebar. If rebar is encountered during drilling, the hole shall be abandoned and relocated, and the abandoned hole shall be patched immediately with non-shrink grout flush with the surface of the existing concrete.

Once the surface sealing material has cured, inject crack with epoxy crack repair binder using pressure injection equipment as directed by the manufacturer.

Cracks wider than 1/4-Inch: As directed by the Engineer, all existing structural cracks wider than 1/4 inch to be repaired shall be gravity fed an epoxy crack repair binder into the prepared crack.

Concrete surface shall be routed to form a minimum 1/4 inch wide by 1/4 inch deep V-notch and the crack cleaned to remove all loose and foreign particles. Crack shall be filled with clean, dry sand and then epoxy crack repair binder poured into V-notch, completely filling crack.

As binder penetrates into crack, additional binder shall be applied to the V-notch.

SPALL REPAIR:

Concrete Removal

Mark a rectilinear perimeter around the damaged section of concrete, extending 1 1/2" beyond the outer most edge of the required removal.

Provide 3/4" deep saw cut along marked rectilinear edge to provide a fault line for demolition and to prevent feathered edges. Do not cut or damage underlying reinforcement.

Utilizing a 15lb pneumatic hammer tool (or similar hand tool) remove all deteriorated concrete inside enlarged cavity following the marked outline

Extend concrete removal to a minimum depth of $\frac{3}{4}$ " beyond steel reinforcing bar within the cavity.

Cavity Preparation

Upon completing removal of concrete, remove all loose and/or delaminating rust and make all areas available for inspection by engineer for additional instruction.

Clean all approved uncovered reinforcing bars with a wire brush only. Remove all rust, scale to bring repair to bright metal. In the event that rust extends beyond previously observed, notify engineer for further instructions.

At areas where existing reinforcing steel projects beyond the specified $1\frac{1}{2}$ ", reinforcing maybe bent or cut at the direction of the engineer only.

Clean cavity of all debris with compressed air and flush cavity with potable water. Do not use any tools or material that may cause bond-inhabitation.

Allow cavity and bars to dry prior to application of corrosion resistant rebar coating. See corrosion resistant rebar coating requirement on section 3.03.

Prepare cavity per manufacturer's specifications to receive bonding agent and cementitious topping. Saturate cavity utilizing clean potable water free of contaminants. Ensure surface is dry and free of standing water prior to application of bonding agent.

Apply bonding agent per manufacturer's specification. See epoxy bonding agent requirement above.

No pins or additional reinforcement is required, unless directed by the engineer to replace damaged reinforcement.

All patching shall provide a final finished surface which is flat, level and even with the existing concrete surface. Repair mortar shall not be feathered to meet existing concrete surface.

Final patching on horizontal surfaces shall receive a finish consistent with the finish on the existing structure.

CURING:

All repair materials utilized shall be cured in strict accordance with manufacturer recommendations.

BASIS OF PAYMENT:

The cost of all labor, equipment and materials necessary to satisfactorily complete the work shall be included in the Lump Sum price bid item of the Contract.

ITEM 19 – REMOVE & REPLACE EXISTING SANDBOX/PLAYGROUND SAND, COARSE FINE SAND WASHED AND SCREENED

DESCRIPTION:

The work shall consist of the removal and proper disposal of the existing sand, and placement of new sand in the areas shown on Contract Drawings for up to 12” thick.

MATERIALS:

New sandbox/playground sand shall consist of Coarse Fine white beach sand consisting of hard, durable, uncoated grains, free from lumps of clay or other deleterious matter, of such size that when dry one hundred percent (100%) shall pass a No. 20 sieve and not more than five percent (5%) shall pass a No. 100 sieve. The sand may be rejected if it contains more than six percent (6%) by volume of loam and silt.

The new sand may be rejected for this class if it contains more than ten percent (10%) by weight of loam and silt.

Two (2) ten-pound (10 lb.) samples of proposed sand shall be submitted for prior to delivery and installation. Samples shall be submitted with a gradation analysis for review and approval by the BPCA and Engineer.

CONSTRUCTION DETAILS:

Existing sand shall be removed and properly disposed of from the two (2) areas indicated on Contract Drawings, to a depth of 12”. New approved sand shall be placed in the locations shown to a depth of 12”, and kept free of debris until project completion.

BASIS OF PAYMENT:

The cost of all labor, equipment and materials necessary to satisfactorily complete the work shall be included in the Lump Sum price bid item of the Contract.

Partial payment for this item shall be made after removal and disposal of the existing sand at 25%. Remaining payment for this item shall be made upon placement of new sand to the depth described, to the satisfaction of the Engineer.

ITEM 20 - REPAINT EXISTING 4'0" HT. STEEL PICKET FENCE WITH GATES AND HANDRAILS, IN-PLACE

DESCRIPTION:

The work shall consist of preparation and painting existing steel fence, gates, and handrails in-place in accordance with the Contract Documents and specifications, and where directed by the Engineer.

Reference SSPC – The Society for Protective Coatings (formerly Steel Structures Painting Council).

MATERIALS:

First coat of primer for previously painted surfaces in sound condition shall be water borne acrylic coating having a dry film thickness of 0.9 to 1.0 Mils, similar to the Extreme Bond Primer as Manufactured by Sherwin Williams Company, or approved equal.

Second coat of primer for previously painted steel surfaces shall be Kem Bond HS Metal Primer B50NZ3, red oxide, as Manufactured by Sherwin Williams Company, or approved equal.

Finish coats shall be two coats of Steel Master 9500 Silicone Alkyd, Color black, as Manufactured by Sherwin Williams Company, or approved equal. Finish coats shall be semi-gloss having a dry film thickness of 1.7 to 3.0 Mils minimum.

CONSTRUCTION DETAILS:

Immediately prior to painting, all surfaces of frameworks shall be thoroughly clean. All surfaces shall be cleaned in accordance with SP-1 Solvent Cleaning. Cleaning shall be performed with a solvent such as mineral spirits, xylol or turpentine to remove all dirt, grease and foreign matter. Surfaces that show evidence of loose mill scale, non-adherent rust, peeling paint and other deleterious matter shall be cleaned in accordance with SP-2 Hand Tool Cleaning, a method generally confined to wire brushing, sandpaper, hand scrapers or hand impact tools or SP-3 Power Tool Cleaning, a method generally confined to power wire brushes, impact tools, power sanders and grinders in order to achieve a sound substrate. Paint shall be applied immediately after final SP-1 solvent cleaning and drying.

All paints shall be applied when ambient air temperature is 50 degrees F. and rising. Surfaces to be painted shall be moisture free. No painting shall be allowed below the minimum ambient air temperature. No painting shall occur below the temperature at which moisture will condense on surfaces per Dew Point Chart.

Application of paint shall be performed in a neat and workmanlike manner. The paint shall be applied by brush, and thoroughly worked into the surface and into all cracks and fissures without leaving fins or runs. Drop clothes shall be used to protect existing ground surfaces and adjacent areas and appurtenances.

BASIS OF PAYMENT:

The cost of all labor, equipment and materials necessary to satisfactorily complete the work shall be included in the Lump Sum price bid item of the Contract.

ITEM 21 - REPOINT JOINTS AND/OR SEALANT AT EXISTING GRANITE WALLS AND SEATS IN THE GARGOYLE SPRAY POOL AREA

DESCRIPTION:

This work shall include the repointing the joints of the existing granite seatwall in the Gargoyle Spray Pool area only. The existing joints shall be cleaned of loose mortar and sealant, and repointed and resealed to match existing colors and finishes. Clear waterproofing sealant shall be applied to all repointed mortar joints after curing is complete.

REFERENCES:

ASTM C404 - Standard Specification for Aggregates for Masonry Grout

ASTM C476 - Standard Specification for Grout for Masonry

ASTM C595 - Standard Specification for Blended Hydraulic Cement

ASTM C780 - Standard Test Method for Pre-construction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry

ASTM C1329 - Standard Specification for Mortar Cement

ASTM C1019 - Standard Test Method for Sampling and Testing Grout

NYCBC - Section BC 2103 Masonry Construction Materials, BC 2104 Construction

MATERIALS:

Complete selection of standard and custom colors of epoxy grout used for pointing mortar, for final selection by Engineer.

Label samples to indicate type and amount of colorant used. Engineer's review will be for color only. Compliance with all other requirements is the responsibility of Contractor.

Aggregates for Grout: Provide fine and coarse aggregates that conform to the requirements of ASTM C404, ASTM C476.

Coloring Additive: A mineral-oxide pigment, harmless to mortar set and strength shall be provided. Colors shall be as selected by the Engineer.

Epoxy Pointing Mortar:

- Provide a two-component non-sag epoxy resin and hardener with mineral filler complying with ANSI A118.3.
- Colors: Complete selection of standard and custom colors for final selection by Engineer.
- Provide epoxy mortar capable of water-cleanup during installation but which, after curing, is waterproof.

CONSTRUCTION DETAILS:

- Epoxy pointing mortar shall be mixed in strict accordance with the manufacturer's instructions.
- Clean out any loose mortar and sealant from the horizontal and vertical joints in the granite. Prior to placing mortar or grout, remove laitance, loose aggregate and any substance that may prevent mortar or grout from bonding to the foundation
- Installation of epoxy grout shall be in accordance with the manufacturer's instructions and recommendations.
- No work under this item shall be performed unless temperature is above 40 degrees F. and rising. No sub-freezing temperatures shall be forecasted for the entire manufacturer's recommended time for curing.
- Pre-wet all surfaces within the joint and remove any standing water.
- Place or inject mortar into joints, compact as required to eliminate voids.
- Where mortar injection is used, the outermost 5/8" shall be placed by hand.
- Finish the joint surface uniformly and leave the granite and mortar surfaces clean.
- Repointed joints shall match the existing adjacent stone in color and have a smooth finish.
- Apply waterproofing sealer on the cured mortar joints as recommended by manufacturer.
- Existing joints having flexible sealant shall be raked out, cleaned, backer rod installed, and new sealant applied per manufacturer's recommendation. Color to match the adjacent stone, or as directed by the Engineer.

BASIS OF PAYMENT:

The cost of all labor, equipment and materials necessary to satisfactorily complete the work shall be included in the Lump Sum price bid item of the Contract.

ITEM 22 – REMOVE/STORE AND REINSTALL BENCHES, PICNIC TABLES, AND OTHER SITE FURNISHINGS IN THE AREA AFFECTED BY CONSTRUCTION

DESCRIPTION:

The work shall consist of the removal, storage and reinstallation of the existing benches, picnic tables, sand trays, and other site furnishings within the site limits affected by construction. Areas indicated on the Contract Drawings for replacement of the safety surface underlayment and crushed stone base shall be considered as affected by construction.

MATERIALS:

Anchor bolts utilized to reinstall benches and other furnishings shall be hot-dipped galvanized steel HILTI ½” KWIK BOLT-TZ or approved equal in accordance with ASTM 307, Grade A at a minimum ½” diameter and to a minimum depth as per manufacturer’s recommendation, or as approved by the Engineer.

Existing concrete piers and/or slab footings for furnishings shall remain undisturbed, or at the discretion of the Engineer, replaced with new concrete footings. New concrete footings, if ordered, shall be paid under Item #20 Cast-In-Place Concrete.

CONSTRUCTION DETAILS:

Existing benches, picnic tables, and sand trays shall be carefully removed, and stored at a location designated by the BPCA. Work shall be carried out to completion without damaging the existing concrete footings. Benches and other furnishings shall be protected from damage during storage. All furnishings shall be reinstalled after the underlayment work is completed. The fixed benches shall be re-anchored to the existing concrete footing using two-part adhesive or wedge type anchors, and/or anchored to a new concrete footing using embedded “J” bolts, or as directed by the Engineer.

New concrete footing, if required, shall be paid under Contract Item 20 Cast-In-Place Concrete.

BASIS OF PAYMENT:

The cost of all labor, materials and equipment necessary to remove, store and reinstall site furnishing affected by construction shall be included in the Lump Sum price bid item of the Contract.

New concrete footing, if required, shall be paid under the item CAST IN PLACE UP3 – Concrete Footing.

ITEM 23 – REMOVE AND REPLACE EXISTING DRINKING FOUNTAIN WITH NEW TROUGH-TYPE DRINKING FOUNTAIN

DESCRIPTION:

The work shall consist of the removal and disposal of the existing drinking fountain, plug and abandon the existing drain piping below-grade, and installation of a new drinking fountain, including proper connection to the existing water supply compliant with NYS Plumbing Code.

MATERIALS:

New drinking fountain shall be Pedestal-Type Barrier-Free design, consisting of welded heavy duty 12 Gauge galvanized steel construction, stainless steel recessed push button type valve and strainer assembly, polished chrome-plated brass adjustable flow bubbler with guard, bib/faucet option, drain-free, access doors for maintenance, vandal resistant hardware, 100% lead-free design, CSA Certified, similar to Model 3202G manufactured by Haws Company; or approved Equal.

CONSTRUCTION DETAILS:

Existing drinking fountain shall be carefully removed and properly disposed of. Work shall be carried out to completion without damaging the existing concrete footing, drain and water supply piping. The existing drain pipe shall be plugged and abandoned below-grade to the satisfaction of the Engineer. The new drinking fountain shall be anchored to the existing concrete footing (if appropriate for installation as per the manufacturers recommendation). Concrete anchors shall be wedge expansion anchor type Kwik Bolt II as manufactured by Hilti Inc or Trubolt Wedge Anchor as manufactured by ITW.

If ordered by the Engineer, a new concrete footing shall be placed in the same location as the existing and new drinking fountain shall be anchored to the new concrete footing meeting the manufacturer's recommendation using embedded "J" bolts, or as directed by the Engineer.

Installation shall include anchoring of the fountain to the existing or new concrete footing and connection to the existing water supply and any incidentals necessary to complete the work to the satisfaction of the Engineer.

BASIS OF PAYMENT:

The cost of all labor, equipment and materials necessary to satisfactorily complete the work shall be included in the Lump Sum price bid item of the Contract.

ITEM 24 - CLOSE-OUT

DESCRIPTION:

Under this work item Contractor shall:

1. Remove all temporary facilities including offices, storage and sanitary facilities set up on site.
2. Provide as-built drawings
3. Provide all warranties including but not limited to: warranty for safety surface, painting and drinking fountain.
4. Compile and submit bound copies of all maintenance manuals and all special tools included with the equipment
5. Provide cleaning and final adjustment of the various playground components.

MATERIALS:

None specified.

CONSTRUCTION DETAILS:

At the completion of the Work, the Contractor shall remove all rubbish from and about the Site of Work, and all temporary structures, construction signs, tools, materials, supplies and equipment which it or any of its Subcontractors may have used in the performance of the Work. Contractor shall broom clean paved surfaces and rake clean other surfaces of grounds.

The Contractor shall thoroughly clean all materials, equipment and structures on Site so as to leave the Work in a clean and new appearing condition.

The Contractor shall remove spatter, grease, stains, fingerprints, dirt, dust, labels, tags, packing materials and other foreign items or substances from all surfaces and equipment on Site.

BASIS OF PAYMENT:

The cost of all labor, equipment and materials necessary to satisfactorily complete the work shall be included in the Lump Sum price bid item of the Contract.

UNIT PRICE ITEMS

UNIT PRICE ITEM 1 (UP1) - REPLACE EXISTING GALVANIZED STEEL SLEEVE AND BASE PLATE ASSEMBLY FOR WOOD POSTS

UNIT PRICE ITEM 2 (UP2) - REPLACE ANCHOR BOLT FOR EXISTING STEEL SLEEVE ASSEMBLY

DESCRIPTION:

Item UP1: This item of work shall consist of replacing existing galvanized steel sleeve and base plates for various size wood posts. Work shall include excavation, concrete and galvanized steel sleeve, base plates, anchor bolts and thru bolts necessary for a complete installation and as shown on the Contract Drawings. This item will be used if upon inspection of the sleeve and base plate, the Engineer determines the replacement to be necessary.

Item UP2: This item of work shall consist of replacing anchor bolts for existing steel post sleeves assemblies in accordance with Contract Drawings, or as directed by the Engineer. This work will only be performed when ordered by the Engineer.

REFERENCE STANDARDS

ASTM A307 – Carbon Steel Bolts and Studs, 60,000 psi Tensile Strength

ANSI/AWS D1.1 – Structural Welding Code – Steel

ASTM A563 – Carbon and Alloy Steel Nuts

MATERIALS:

Concrete anchor bolts shall be hot-dip galvanized with a 60,000-psi tensile strength in accordance with ASTM A307 Grade A. Anchor bolts shall be of the size and configuration shown on the Contract Drawings and shall be supplied with hexagonal nuts meeting the requirements of ASTM A563 Grade A.

Sleeves, base plate and thru bolts including nuts and washers used in the installation of the wood post footings will be hot dipped galvanized steel. Sleeves for all wood posts shall be Schedule 40, thru bolts shall be ¾-inch diameter, anchor bolts shall be 1-inch diameter and base plates shall be 1-inch thick as shown on the Contract Drawings.

Concrete anchors shall be wedge expansion anchor type Kwik Bolt II as manufactured by Hilti Inc or Trubolt Wedge Anchor as manufactured by ITW.

Non-shrink grout shall be used for grouting beneath the base plates. The grout material shall be an approved ready to use mixture requiring only water for use at the job site. The compressive strength of 2-inch cubes shall be 3,000 psi at 7 days. Non-shrink grout shall be Sikagrout 212 as manufactured by Sika Corporation, Masterflow 713 as manufactured by Master Builders Solutions or approved equal.

CONSTRUCTION DETAILS:

Two options are included in the Contract Drawings for the installation of the wood post sleeve: Pre-Embedded J Anchors and Post-Installed Expansion Anchors. Contractor shall follow the details shown on the Contract drawings and the applicable installation instructions included herein.

Installation:

1. Anchor bolts shall be installed in accordance with AISC "Code of Standard Practice" by setting in concrete while it is being placed and positioned by means of a rigidly held template
2. The installation of concrete anchors shall be done in strict conformance with the manufacturer's recommendations
3. No concrete anchor shall be installed before base concrete has attained specified 28-day strength
4. Expansion anchors shall be embedded to the depths shown on the Contract Drawings. If no embedment depth is given, the standard embedment depth as recommended by the manufacturer shall be used
5. Prior to the placement of non-shrink grout beneath base plates, the bottom surface of the plates shall be cleaned of all foreign materials, and bearing surface shall also be cleaned of all foreign materials and roughened to improve bonding.
6. Anchor bolts shall be tightened after the supported members have been positioned and plumbed and the non-shrink grout has attained its specified strength.
7. Baseplates shall be grouted with non-shrink grout to assure full uniform bearing. Grouting shall be done prior to placing loads on the structure
8. Baseplate shall be welded to the sleeve as shown on the contract drawings.
9. All welding shall be performed in accordance with ANSI/AWS D1.1 and ANSI/AWS D1.4. No welding shall be performed when the base metal temperature is lower than 32 degrees Fahrenheit.
10. Each welder assigned to work on this Contract shall be certified in conformance with ANSI/AWS D1.1, Section 4. Welders shall also be New York City certified. Proof of certifications shall be submitted with the shop drawing.

Shop drawings shall be prepared for Engineer's approval to include materials of construction and installation details.

METHOD OF MEASUREMENT:

Item UP1: Payment for this work shall be measured by the number of complete galvanized steel sleeves furnished and replaced for wood posts, including excavation, concrete, sleeve, base plate, anchor bolts and thru bolts in accordance with the plans and specifications.

Item UP2: Payment for this work shall be measured by the number of anchor bolts replaced for existing steel post sleeves assemblies in accordance with the Contract Documents, if ordered by the Engineer.

BASIS OF PAYMENT:

The unit prices bid shall include the cost of furnishing all labor, materials, and equipment necessary to satisfactorily complete the work.

Payment will be made under:

Item No.	Item	Pay Unit
UP1	Replace Existing Galvanized Steel Sleeve and Base Plate Assembly for Wood Posts.	Each
UP2	Replace Anchor Bolts for Existing Steel Sleeve Assembly.	Each

UNIT PRICE ITEM 3 (UP3) - CAST-IN-PLACE CONCRETE

DESCRIPTION:

- A. This item shall consist of cast-in-place concrete footing constructed in accordance with these specifications at the locations and to the dimensions, shown on the Contract Documents or as ordered by the Engineer.

MATERIALS:

- A. General: The concrete shall be composed of coarse aggregate, fine aggregate, Portland cement, Type II A or Type III A, and water.
- B. Individual Materials: Each ingredient shall conform to the following requirements:
1. Cement: The cement shall conform to the requirements of the "Standard Specifications for Portland Cement, ASTM Designation: C-150", as currently revised, and/or "Standard Specifications for Air-Entraining Additions" ASTM Designation C-226, as currently revised.
 2. Aggregates: The aggregates shall be non-reacting broken stone (maximum size 1") or screened gravel (maximum size 1"), and fine (washed) aggregate all conforming to "Specifications for Concrete Aggregates" ASTM Designation: C-33, as currently revised.
 3. Water: The water for mixing and for washing aggregates shall be completely free of organic acids, alkalis and oil. The water shall be potable and the quality shall meet the requirements of AASHTO Designation T-26 as currently revised.
 4. Reinforcing: ASTM A615 tensile strength 60,000 psi when required and indicated on the Contract Drawings or as directed by the Engineer.
 5. Joint Filler: The expansion joint material shall be pre-formed non-extruding bituminous fiber conforming to the requirements of "Standard Test Methods for Preformed Expansion Joint Fillers" ASTM Designation: D-545 and Standard Specification for Preformed Expansion Joint Filler" ASTM Designation: D-994, both as currently revised.
 6. Admixtures: Admixtures, when permitted or ordered, shall conform to "Specifications for Chemical Admixture for Concrete" ASTM Designation: C-494, as currently revised.
- C. Mixture Requirements:
1. Cement: The minimum cement factor shall be 7 sacks per cubic yard.
 2. Water: The maximum permissible water-cement rate shall be 5 gallons per sack of cement.
 3. Air: The average air content shall be 5%. The fine aggregate or sand content shall be reduced accordingly in order to provide the required air content.
 4. Slump: The slump of the concrete shall not exceed 4 inches when tested in accordance with ASTM Designation: C-143. Batches or transit mixed concrete showing more than this slump will be rejected and the Contractor shall have no claim against the Owner for such rejection or for waiting time involved in making the test. The slump specified above is the maximum limit; no tolerance above this limit will be permitted.

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5. Design: The mixture shall be designed in accordance with the "A.C.I. Standard Practice for Selecting Proportions for Concrete" A.C.I. Designation: 211.1, as currently revised.

D. Sampling and Testing:

1. It is the Contractor's responsibility to coordinate and schedule third party testing to confirm the requirements are being met. All costs associated with testing and correcting deficiencies shall be included in the unit price bid.
2. Sampling and testing shall be done in conformance with "Method of Making and Curing Concrete Compression and Flexure Test Specimens in the Laboratory" ASTM Designation: C-192 with current revisions thereto, and "Test for Compressive Strength of Molded Concrete Cylinders" ASTM Designation: C-39, as currently revised. The cost of sampling and testing the concrete shall be borne by the Contractor. The Contractor shall provide any assistance required for the taking and storing of cylinders.
3. Tests of the concrete by the Engineer on random batches shall be permitted by the Contractor. At least one test of at least three cylinders for testing at 28 days and one cylinder for testing at 7 days shall be obtained each day.
4. The concrete shall show an average strength in compression of 4000 psi, when sampled, cured and tested at 28 days in accordance with the preceding specifications. To conform to this average strength, the following requirements shall be met:
 - a. The average of the three 28-day tests shall be a minimum of 3650 psi.
 - b. All three tests below 4000 psi, shall constitute failure to meet the specifications and shall be sufficient basis to reject the areas containing concrete delivered on that day.

E. Alternate Strength Tests: Where there is a question as to the quality of concrete because of strength test failures, approval may be given to the Contractor to institute strength tests to verify or disprove the results. The test and the basis of acceptance (or rejection) of the quality of the concrete by these alternate tests shall be agreed upon by the Engineer and the Contractor where such approval is granted.

F. Trial Mixes: The Contractor shall note that if the strength requirements cannot be met by the screened gravel, he will be required to show strength tests on trial mixes from a reliable independent laboratory sufficient to establish average strength that can be used to guide the Engineer in determining the quality of the concrete. These tests shall be made using the cement content, slump and water cement ratio specified herein. This information must be presented to the Engineer before concrete work begins.

SUBMITTALS:

The Contractor shall submit, in writing, all third party testing results to the Engineer.

CONSTRUCTION DETAILS:

Sawcutting:

- A. Sawcutting shall be as indicated on the Contract Documents or where ordered by the Engineer. Saw cuts shall be made to the depth specified or as directed by the Engineer.

Excavation and Fill:

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- A. Excavation or fill shall be made to the required subgrade elevation, and subgrade or base upon which the footing is to be set excavation shall be thoroughly compacted with a mechanical tamper or vibratory compactor.
 - B. The cost of compaction and all excavation or fill required to set the footing to the correct alignment shall be included in the unit price bid for this Item.

Forms:

- A. All forms shall be set true to line and grade and held rigidly in position. The forms shall be left in place until the concrete has set sufficiently so that in the opinion of the Engineer, they may be removed without cracking, shattering or otherwise injuring the concrete.
- B. Formwork and reinforcing shall be properly set and secured.

Placing Concrete:

- A. Concrete shall be placed only on moist, well compacted subgrade. The subgrade shall not be muddy, soft or frozen when the concrete is placed. The concrete shall be compacted by approved means.
- B. The slump of the concrete shall not be greater than 4 inches.
- C. Concrete shall not be placed when the temperature is below 40 degrees F. except under conditions approved by the Engineer.
- D. Ensure all items to be embedded are at their proper location and elevation prior to pouring concrete.

Adverse Weather Requirements:

- A. The requirements of "Recommended Practice for Hot Weather Concreting" ACI Designation: 305 current revision and "Recommended Practice for Winter Concreting" ACI Designation: 306 as currently revised, shall govern all adverse weather concreting and its protection.
- B. Admixtures shall be used to modify the rate of hardening of the mixtures for the conditions listed below:
 - 1. Ambient temperature above 90 degrees F and relative humidity below 70% - rate of hardening shall be retarded.
 - 2. Ambient temperature below 50 degree F, - rate of hardening shall be accelerated.

Curing and Protection:

- A. Curing shall be done by means of the membrane curing compound specified in the materials section of this item. This compound shall be applied at the rate recommended by the manufacturer immediately upon completion of the finishing operation on the face and top and immediately upon stripping the rear forms. The Contractor shall submit manufacturer's literature to the Engineer for approval of the compound.
- B. The Contractor shall protect the curbing and keep it in first class condition until the completion of the work. Any curbing which is damaged at any time prior to the final acceptance of the work shall be removed and replaced with satisfactory curbing at the Contractor's expense.

METHOD OF MEASUREMENT:

The quantity to be paid for under this item shall be by the number of cubic yards of concrete measured in place and accepted by the Engineer in accordance with the Contract Documents.

BASIS OF PAYMENT:

Payment at the unit price bid per linear foot for this Item shall constitute full compensation for furnishing and preparation of all materials, including all joints, joint filler, dowels and reinforcing, rebar, if required in the construction drawings or special provisions; placing, finishing, curing, protection, backfill, select fill, sawcutting, all necessary excavation; all labor, tools, incidentals and testing necessary to complete the work.

Payment will be made under:

<u>Item No.</u>	<u>Item</u>	<u>Pay Unit</u>
UP4	Cast-In-Place Concrete	Cubic Yard