

ADDENDUM NO. 2
to the Contract Documents for

New Bedford High School Indoor Swimming Pool Upgrades

New Bedford, Massachusetts

Mount Vernon Group Inc.
47 North Second St
New Bedford, MA 02740

Addendum Date: September 30, 2014

TO ALL BIDDERS AND SUB-BIDDERS

This Addendum modifies, amends, and supplements designated parts of the Contract Documents for New Bedford High School Indoor Swimming Pool Upgrades, New Bedford, Massachusetts set dated September 17, 2014 and is hereby made a part thereof by reference and shall be as binding as though inserted in its entirety in the locations designated hereunder. It shall be the responsibility of each General Bidder and all Filed Sub-Bidders to notify all sub-contractors and suppliers he/she proposes to use for the various parts of the works, of any changes or modifications contained in this Addendum. No claims for additional compensation because of the lack of knowledge of the contents of this Addendum will be considered.

THE NUMBER OF THIS ADDENDUM MUST BE INSERTED IN PARAGRAPH B. OF THE "FORM FOR SUB-BID" AND IN PARAGRAPH B. OF THE "FORM FOR GENERAL BID"

THIS ADDENDUM CONSISTS OF PAGES NUMBERED: **AD2-1** through **AD2-3**

THIS ADDENDUM CONSISTS OF DRAWINGS: *Updated Cover Sheet*
SP1.00 - Pool Deck Plan and General Notes (dated 09/30/14)
SP2.00 - Pool Dimension Plan Section and Details (dated 09/30/14)
SP3.00 - Pool Details (dated 09/30/14)

THIS ADDENDUM CONSISTS OF SKETCHES: N/A

THIS ADDENDUM CONSISTS OF SPECIFICATIONS: *00 00 01 – Table of Contents (Updated)*
00 00 01 – List of Drawings (Updated)
00 03 25 – Form For Sub Bid
13 15 00 - Summary of Work (dated 09/30/14)
13 15 30 - Deck Equipment (dated 09/30/14)
13 15 40 - Pool Details (dated 09/30/14)

CHANGES TO THE PROJECT MANUAL

SECTION 00 30 00 – FORM FOR GENERAL BID

ITEM 01 See attached new and revised Form for General Bid

SECTION 00 03 25 – FORM FOR SUB-BID

ITEM 01 See attached new and revised Form for Sub Bid

INVITATION FOR BIDS ADVERTISEMENT BID NUMBER 15.300.01

ITEM 01 Page 2, Paragraph 5, Delete the Pre-Bid Conference Date of September 22, 2014, and Replace with new date of “ **October 3, 2014 at 10:00 AM** “

ITEM 02 The Following are Clarifications for the new Bid Dates for File-Sub and General Bids

“**Sealed Bids for File-Sub Bids** will be received by the City of New Bedford , Purchasing Department, 133 William Street, New Bedford, MA 02740. Until 1:00 P.M. local time on **Thursday, October 9, 2014** at which time all bids will be publicly opened and read aloud

File Sub-Bids will be received on the Following Work:

- Division 9 – Finishes (Tiling)
- *Division 22 – Plumbing*
- Division 23 – HVAC
- ~~Division 26 – Electrical~~

“**Sealed Bids for General Bid** will be received by the City of New Bedford , Purchasing Department, 133 William Street, New Bedford, MA 02740. Until 1:00 P.M. local time on **Thursday, October 16, 2014.** at which time all bids will be publicly opened and read aloud

SECTION 09 30 00 – Tiling

ITEM 01 Add the Following: Item, 3.03, Repair, Cleaning, and Protection.
“E. Tiling File Sub shall be responsible for all required tile demolition as required to Install new Tile work.

SECTION 13 15 00 – Summary of Work

ITEM 01 Insert Spec Section **09 15 00**

SECTION 13 15 30 – Deck Equipment

ITEM 01 Insert Spec Section **09 15 30**

SECTION 13 15 40 – Swimming Pool Grout and Tile

ITEM 01 Insert Spec Section **09 15 40**

GENERAL:

The Following is a Clarification as it relates to the Minority Business Enterprise (MBE) and Women Business Enterprise (WBE) participation requirements:

The City of New Bedford requires any public work construction project over \$50,000 to allow for Minority Business Enterprise (MBE) and Women Business Enterprise (WBE) participation. The City requires MBE participation of at least 11% of the total bid and WBE participation of at least 5% of the total bid – equaling 17% in total.

If the required MBE/WBE percentages cannot be met for the project, the referenced “Request for Waiver” form must be completed and timely submitted. The Request for Waiver provides the bidder with the opportunity to explain in writing the reasons for failing to comply with the above referenced EEO/AA requirements. Please note that in order for the “Request for Waiver” to be approved, the contractor must show that good faith efforts were undertaken to comply with the percentage goals, as specified. Please see “Request for Waiver” for additional information/instruction regarding requisite steps to properly submit a waiver of MBE/WBE participation.

SECTION 00 00 01

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SPECIFICATION SECTION	DOCUMENT DATE
VOLUME 1	
DIVISION 00 - CONTRACTS AND CONDITIONS	
00 00 01 - Table of Contents	17 September 2014
00 00 02 - List of Drawings	17 September 2014
00 00 20 - Invitation to Bid	17 September 2014
00 01 00 - Instructions to Bidders	17 September 2014
00 03 00 - Form for General Bid	17 September 2014
00 03 25 - Form for Sub-Bid	17 September 2014
AIA A 101 Owner/Contractor Agreement, 2007 Edition	
AIA A 201 General Conditions of the Contract for Construction, 2007 Edition	
AIA A 310 Bid Security Form	
AIA A 311 Performance and Labor and Material Payment Bond Form	
00 08 00 - Supplementary General Conditions of the Contract for Construction	17 September 2014
00 08 26 - Insurance Requirements	17 September 2014
00 09 00 - Labor Standards of the Commonwealth	17 September 2014
Commonwealth of Massachusetts Prevailing Wage Rates	
Commonwealth of Massachusetts Department of Occupational Safety Apprentice Wage Rates	
City of New Bedford Instructions To Bidders For Affirmative Action Issues	
City of New Bedford Non-Collusion and State Tax Compliance Certificate	
City of New Bedford OSHA Compliance Certificate	
City of New Bedford Undocumented Worker Certificate	
DIVISION 01 - GENERAL REQUIREMENTS	
01 00 00 - General Requirements	17 September 2014
01 22 00 - Unit Prices	17 September 2014
01 26 00 - Contract Modification Procedures	17 September 2014
01 31 00 - Project Management and Coordination	17 September 2014
01 33 00 - Submittal Procedures	17 September 2014
01 40 00 - Quality Requirements	17 September 2014
01 50 00 - Temporary Facilities and Controls	17 September 2014
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01 51 11 - Progress Schedule	17 September 2014
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01 71 00 - Cleaning	17 September 2014
01 74 19 - Construction Waste Management and Disposal	17 September 2014
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01 91 15 - General Testing Requirements	17 September 2014

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DOCUMENT

SPECIFICATION SECTION

DATE

DIVISION 02 - EXISTING CONDITIONS

NO WORK IN THIS DIVISION

DIVISION 03 - CONCRETE

NO WORK IN THIS DIVISION

DIVISION 04 - MASONRY

NO WORK IN THIS DIVISION

DIVISION 05 - METALS

NO WORK IN THIS DIVISION

DIVISION 06 - WOOD AND PLASTICS

NO WORK IN THIS DIVISION

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

07 92 00 - Joint Sealants

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DIVISION 08 - DOORS AND WINDOWS

NO WORK IN THIS DIVISION

DIVISION 09 - FINISHES

* 09 30 00 - Tiling

09 65 00 - Resilient Flooring and Base

09 91 13 - Painting

17 September 2014

17 September 2014

17 September 2014

DIVISION 10 - SPECIALTIES

NO WORK IN THIS DIVISION

DIVISION 11 - EQUIPMENT

NO WORK IN THIS DIVISION

DIVISION 12 - FURNISHINGS

NO WORK IN THIS DIVISION

DIVISION 13 - SPECIAL CONSTRUCTION

13 15 00 - Summary of Work (dated 09/30/14)

13 15 30 - Deck Equipment (dated 09/30/14)

13 15 40 - Pool Details (dated 09/30/14)



* Indicates Filed Sub-Bids

DIVISION 14 - CONVEYING EQUIPMENT
NO WORK IN THIS DIVISION

DIVISION 21 – FIRE SUPPRESSION
NO WORK IN THIS DIVISION

DIVISION 22 – PLUMBING
* 22 00 01 - Plumbing

DIVISION 23 – HEATING VENTILATING AND AIR CONDITIONING
* 23 00 00 - HVAC

DIVISION 26 – ELECTRICAL
26 00 00 - Electrical

DIVISION 27 – COMMUNICATIONS
NO WORK IN THIS DIVISION

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY
NO WORK IN THIS DIVISION

DIVISION 31 - EARTHWORK
NO WORK IN THIS DIVISION 4

DIVISION 32 - EXTERIOR IMPROVEMENTS
NO WORK IN THIS DIVISION

DIVISION 33 - UTILITIES
NO WORK IN THIS DIVISION

END OF TABLE OF CONTENTS

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SECTION 00 00 02

LIST OF DRAWINGS

ARCHITECTURAL:

- D01.01 DEMOLITION PLANS
- A01.01 FLOOR AND REFLECTED CEILING PLANS
- A01.02 BUILDING SECTIONS AND DETAILS
- A01.03 REFERENCE IMAGES

STRUCTURAL:

- S100 CONCRETE REPAIR PLAN, NOTES & TYPICAL DETAILS

PLUMBING:

- P01.01 PLUMBING LEGEND, NOTES, DIAGRAMS & PLANS

MECHANICAL:

- M0.01 MECHANICAL LEGEND, LEGEND, GENERAL NOTES, SCHEDULES & DETAILS
- M01.01 MECHANICAL DEMOLITION & NEW WORK PLAN

ELECTRICAL:

- E0.01 ELECTRICAL LEGEND, GENERAL NOTES AND SCHEDULES
- E1.01 ELECTRICAL DEMO WORK PLANS
- E1.02 ELECTRICAL NEW WORK PLANS

POOL ENGINEERING DRAWINGS:

- SP1.00 - Pool Deck Plan and General Notes
- SP2.00 - Pool Dimension Plan Section and Details
- SP3.00 - Pool Details



END OF SECTION

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SECTION 00 03 25

FORM FOR SUB-BID

FROM:

TO:

and
ALL GENERAL BIDDERS EXCEPT THOSE EXCLUDED:

- A. The undersigned proposes to furnish all labor and materials required for completing, in accordance with the hereinafter described Contract Documents, including Plans, Specifications and Addenda, all the Work specified in Section No. _____ SUB-TRADE _____ of the Specifications and in any Plans specified in such Section, prepared by Mount Vernon Group Architects, Inc., 47 N. Second Street, New Bedford, MA 02740 for the New Bedford High School Swimming Pool Upgrades Massachusetts, for the Contract Sum of:

_____ DOLLARS (\$ _____)

UNIT PRICES

As authorized by the Owner, should the quantities of certain classes of work to be increased or decreased, as described below, the Unit Prices listed below shall be the basis of payment to the Contractor, or credit to the Owner, for such increase or decrease in the Work. The Unit Prices shall represent the exact net amount, per unit, to be paid the Contractor, in the case of additions, and the exact net amount to be refunded to the Owner, in the case of decreases. No additional adjustment will be allowed for overhead, profit, insurance, or other direct or indirect expenses of the Contractor. No additional adjustments will be allowed for over excavation, or other related work, without prior written approval of the Owner.

1. Vertical concrete repairs (up to 4 inches deep) at \$ _____ per square foot.
2. Overhead concrete repairs (up to 3 inches deep) at \$ _____ per square foot.
3. 1" x 1" ceramic tile replacement (Note: 5,200 square feet to be carried in the base contract bid) add and/or deduct cost at \$ _____ per square foot.
4. Re-grouting of existing tile in excess of the 5,200 square feet to be carried in the base contract bid, add and/or deduct cost at \$ _____ per square foot.
5. Cleaning of existing tile at \$ _____ per square foot.

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B. This sub-bid includes Addenda numbered _____

C. This sub-bid

_____ May be used by all General Bidders except: _____

_____ May be used only by the following General Bidders: _____

(To exclude General Bidders, insert "X" on one line only and fill in the blank following that line. Do not answer "C" if no General Bidders are excluded.)

D. The undersigned agrees that, if he is selected as a Sub-bidder, he will, within five (5) days, Saturdays, Sundays and legal holidays excluded, after presentation of a subcontract by the General Bidder selected as the General Contractor, execute with such General Bidder a subcontract in accordance with the terms of this sub-bid, and contingent upon the execution of the General Contract, and, if requested so to do in the general bid by such General Bidder, who shall pay the premiums therefor, or if prequalification is required pursuant to Section 44D3/4, furnish a performance and payment bond of a surety company qualified to do business under the laws of the Commonwealth and satisfactory to the Awarding Authority, in the full sum of the subcontract price.

If prequalification is required pursuant to Section 44D3/4 of MGL Chapter 149, the undersigned sub-bidder further agrees to pay the premiums for the performance and payment bonds furnished by sub-bidders as required therein and that all the cost of all such premiums is included in the amount set forth in Item A of this sub-bid.

E. The names of all persons, firms, and corporations furnishing to the undersigned labor or labor and materials for the class or classes or part thereof of Work for which the provisions of the Section of the Specifications for this sub-trade require a listing in this paragraph, (including the undersigned if customarily furnished by persons on his own payroll and in the absence of a contrary provision in the specifications) the name of each such class of Work or part thereof and the bid price for each such class of Work or part thereof are:

<u>Name:</u>	<u>Class of Work:</u>	<u>Bid Price:</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

(Do not give bid price for any class or part thereof furnished by the undersigned.)

F. The undersigned agrees that the above list of bids to the undersigned represents bona fide bids based on the Drawings, Plans, Specifications and Addenda and that, if the undersigned is awarded the Contract, they will be used for the Work indicated at the amounts stated, if satisfactory to the Awarding Authority.

G. The undersigned further agrees to be bound to the General Contractor by the terms of the herein before described Plans, Specifications (including all General Conditions stated therein) and Addenda, and to assume toward the General Contractor by all the obligations and responsibilities that the General Contractor, by those documents, assumes toward the Owner.

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- H. The undersigned offers the following information as evidence of his qualifications to perform the Work as bid upon according to all the requirements of the Plans and Specifications:
1. Have been in business under present business name _____ years.
 2. Ever failed to complete any Work awarded? _____ (if yes, briefly explain)

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3. List one or more recent buildings with name of General Contractor and Architect on which you served as Sub-contractor for Work of similar character as required for this project.

BUILDING TYPE	ARCHITECT	GENERAL CONTRACTOR	CONTRACT AMOUNT
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a. _____

b. _____

c. _____

4. Bank Reference: _____

- I. The undersigned hereby certifies that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the Work; that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and that he will comply fully with all laws and regulations applicable to awards made subject to section 44F.

The undersigned further certifies under penalties of perjury that this sub-bid is in all respects bona fide, fair, and made without collusion or fraud with any other person. As used in this subsection the word "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity. The undersigned further certifies under penalty of perjury that the said undersigned is not presently debarred from doing public construction Work in the Commonwealth under the provisions of sections twenty-nine F. of chapter twenty-nine, or any other applicable debarment provisions of any other chapter of the General Laws or any rule or regulation promulgated thereunder.

A bid deposit, in the amount of 5% of the proposed Contract Price, conditioned upon the faithful performance by the bidder of the agreements contained in this bid, shall be attached to this proposal. The undersigned agrees that, if he or she is designated as the successful bidder, but fails to execute a contract in accordance with the agreements contained in this bid, this bid security shall become the property of the Awarding Authority as liquidated damages.

TAXES: As required by MGL Chapter 62c, Section 49A, the undersigned certifies that he or she has complied with all laws of the Commonwealth relating to taxes, reporting of employees and contractors, and withholding and remitting child support.

The undersigned hereby agrees that this bid shall be valid for a period of 30 days, Saturdays, Sundays, and legal holidays excluded, after the date designated for opening of the General Bids.

The undersigned agrees to furnish the following information prior to the time established for execution of the Contract.

1. Certificate of Corporate Vote, or names of Partners in a Partnership.
2. Massachusetts Foreign Corporation Certificate, if applicable.

DATE _____

(Name of Sub-Bidder)

By

(Title and Name of Person Signing)

(Business Address)

(Business Telephone No.)

(City and State)

Note: If Bidder is a corporation, indicate State of Incorporation under signature; if a partnership, give full names of all partners.

The following information is furnished under the penalties of perjury:

If a corporation:

Incorporated in what State _____

President _____

Treasurer _____

Secretary _____

If you are a foreign (out of state) corporation, are you registered with the Secretary of the Commonwealth in accordance with the provisions of Chapter 181 of the General Laws,

Sections 3 and 5 _____

If you are selected by the General Contractor and awarded the sub-contract for this Work, you are required under Massachusetts General Laws Chapter 30, Section 39L to obtain from the Secretary of State, Foreign Corporation Section, Room 136 State House, a certificate stating that your corporation is registered, and furnish said certificate to this Awarding Authority.

If a Partnership: (Name all partners.)

Business Address _____

Name of Partner _____

Residence _____

Name of Partner _____

Residence _____

END OF FORM FOR SUB-BID

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Mount Vernon Group Architects, Inc., Project No. 2014.04

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**NEW BEDFORD HIGH SCHOOL INDOOR SWIMMING POOL UPGRADES
NEW BEDFORD, MASSACHUSETTS**

17 September 2014

Mount Vernon Group Architects, Inc., Project No. 2014.04

SECTION 00 30 00

FORM FOR GENERAL BID

FROM:

TO:

A The undersigned proposes to furnish all labor and materials required for New Bedford High School Infrastructure Upgrades, New Bedford, Massachusetts, in accordance with the accompanying Plans and Specifications prepared by the Mount Vernon Group Architects, Inc., 47 N. Second Street, New Bedford, Massachusetts 04720, (508) 991-7500, for the Contract Price specified below, subject to additions and deductions according to the terms of the Specifications,

B. This bid includes addenda numbered _____,

C. The Proposed Contract Price is _____
_____ DOLLARS (\$ _____)

D. The subdivision of the proposed Contract Price is as follows:

Item 1: The work of the General Contractor, being all work other than that covered by Item 2,
\$ _____
_____ Dollars (\$ _____)

Item 2: Filed Sub-Bids as follows:

<u>SUB-TRADE</u>	<u>NAME OF SUB-BIDDER</u>	<u>AMOUNT</u>	<u>BOND REQUIRED</u>
Section 09 30 00 Tiling	_____	\$ _____	_____
Section 22 00 01 Plumbing	_____	\$ _____	_____
Section 23 00 01 Mechanical	_____	\$ _____	_____
TOTAL OF ITEM 2			\$ _____

UNIT PRICES

As authorized by the Owner, should the quantities of certain classes of work to be increased or decreased, as described below, the Unit Prices listed below shall be the basis of payment to the Contractor, or credit to the Owner, for such increase or decrease in the Work. The Unit Prices shall represent the exact net amount, per unit, to be paid the Contractor, in the case of additions, and the exact net amount to be refunded to the Owner, in the case of decreases. No additional adjustment will be allowed for overhead, profit, insurance, or other direct or indirect expenses of the Contractor. No additional adjustments will be allowed for over excavation, or other related work, without prior written approval of the Owner.

1. Vertical concrete repairs (up to 4 inches deep) at \$ _____ per square foot.
2. Overhead concrete repairs (up to 3 inches deep) at \$ _____ per square foot.
3. 1" x 1" ceramic tile replacement (Note: 5,200 square feet to be carried in the base contract bid) add and/or deduct cost at \$ _____ per square foot.
4. Re-grouting of existing tile in excess of the 5,200 square feet to be carried in the base contract bid, add and/or deduct cost at \$ _____ per square foot.
5. Cleaning of existing tile at \$ _____ per square foot.

E. The undersigned agrees that each of the above-named sub-bidders will be used for the Work indicated at the amount stated, unless a substitution is made.

The undersigned agrees that if he is selected as General Contractor, he will promptly confer with the Awarding Authority on the question of Sub-bidders and that the Awarding Authority may substitute for any sub-bid listed above a sub-bid duly filed with the Awarding Authority by another sub-bidder for the sub-trade, against whose standing and ability the undersigned makes no objection; and that the undersigned will use all such finally selected sub-bidders at the amount named in their respective sub-bids and be in every way responsible for them and their Work as if they had been originally named in this General Bid the total Contract Price being adjusted to conform thereto.

The undersigned agrees that, if he is selected as General Contractor, he will within (5) days, Saturdays, Sundays and legal holidays excluded, after presentation thereof by the Awarding Authority, execute a Contract in accordance with the terms of this General Bid and furnish a performance bond and also a labor and materials or payment bond each of a surety company qualified to do business under the laws of the Commonwealth and satisfactory to the Awarding Authority and each in the sum of one hundred percent (100%) of the Contract Price, the premiums for which are to be paid by the General Contractor and are included in the Contract Price.

The undersigned hereby certifies that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the Work; that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and that he will comply fully with all laws and regulations applicable to awards made subject to section 44A.

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The undersigned hereby certifies under the penalties of perjury that this bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this subsection the word "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity.

The undersigned further certifies under penalty of perjury that the said undersigned is not presently debarred from doing public construction work in the Commonwealth under the provisions of section twenty-nine F of chapter twenty-nine, or any other applicable debarment provisions of any other chapter of the General Laws or any other rule or regulation promulgated thereunder.

The undersigned certifies that he shall comply with the provisions of the "Supplemental Equal Employment Opportunity Anti-Discrimination and Affirmative Action Program" as set forth in the contract, Article XII, included under Section 00900 Labor Standard of the Commonwealth

Should the notice to contractors, bid form, contract, plans or specifications require submission of special data to accompany the bid, the awarding authority reserved the right to rule the bidder's failure to submit such data an informality and to receive said bid subsequently, within reasonable time as set by the awarding authority.

DATE _____

(Print Name of General Bidder)

Federal Employees Identification
Number _____

(Signature) (Title)

(Telephone No.)

(Business Address)

(City, State and Zip Code)

END OF FORM FOR GENERAL BID

NEW BEDFORD HIGH SCHOOL INDOOR SWIMMING POOL UPGRADES
NEW BEDFORD, MASSACHUSETTS
Mount Vernon Group Architects, Inc., Project No. 2014.04

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SECTION 13 15 00

SUMMARY OF WORK FOR POOLS

PART 1 – GENERAL

1.01 WORK INCLUDED:

- A. Provide and include all shop drawings for all materials and equipment to be supplied or installed in this project.
- B. Furnish and install epoxy grouting.
- C. Furnish and install pool tile and tile marking within the pool. (Specified in Section 131540.)
- D. Furnish and install deck tile depth markers and "No Diving" tiles as indicated on drawings, and wall depth markers for installation on the adjacent wall as specified.
- E. Furnish grounding wiring as specified in Division 16.
- F. Furnish and install health and safety compliance signs, and a 911 phone.
- G. Furnish and install fiberglass grating in the stainless steel gutter trough.
- H. Replace, (1) 6-inch PVC butterfly valve on the existing main drain gravity line, found in the filter mechanical room in the floor below.
- I. Furnish and provide labor in order to test and balance the pool, bring the chemicals of the pool within the limits provided by the state health code. Contractor is responsible for turning over to the City of New Bedford, a clean, balanced pool, certified by the health department for patron use.

1.02 RELATED WORK:

- A. The following Sections contain work that relates to this Section.
 - 1. Section 01 33 23 – SUBMITTALS
 - 2. Section 13 15 30 – DECK EQUIPMENT AND POOL ACCESSORIES
 - 3. Section 13 15 40 – SWIMMING POOL GROUT AND TILE REPLACEMENT

1.03 WORK PERFORMED UNDER OTHER SECTIONS (Not By Swimming Pool Contractor-SPC.):

- A. The Electrical Contractor shall ground the entire pool structure, deck, and equipment in accordance with the National Electrical Code and all local Codes and Ordinances.
- B. Provide all construction utilities, water, electric heat, or cold weather protection.

1.04 QUALITY ASSURANCE:

- A. Design Standards:

1. Within the limits of constraints imposed by existing conditions, it is intended that the work of this contract shall comply with the following requirements:
 - a. American National Standards for Public Swimming Pools – ANSI/APSP-1 2003.
 - b. Massachusetts Health Code 435 CMR - Pool Design Standards.
 - c. National Electrical Code, Article 680.
 - d. National Sanitation Foundation Standards for Swimming Pool Equipment. (N.S.F.)
 - e. State Building Code
 - f. Virginia Graeme Baker Pool and Spa Safety Act VGB 2008
 - g. NSF/ANSI Standard 50 – Equipment for Swimming Pools, Spas, Hot Tubs and Recreational Water Facilities
 - h. United States Department of Justice – Americans with Disabilities Act (ADA)
- B. Experience Qualifications: Work shall be performed by or under direct supervision of Contractor with 5 years' experience in construction and equipping of public pools. Submit list of 5 projects, completed at least two years, for which swimming pool contractor was responsible for equipping of similarly equipped pools for public use.
- C. Installation of Pool System and Equipment: Pool equipment and system shall be installed by specialists, experienced in swimming pool work and licensed or approved by manufacturer to ensure installation and performance in accordance with manufacturer's warranties and guarantees.

1.05 SUBMITTALS:

- A. Certification: Submit complete equipment list and duplicate copies of certificate from equipment manufacturer, properly attested, with statement that materials meet requirements of Contract Documents. Submit certificate for approval before doing any work.
- B. Product Data: Submit six (6) sets of manufacturer's data for operating equipment, valves, piping, drains, and equipment. Include roughing-in information for mechanical and electrical work.
- C. Maintenance Data: Submit two (2) sets of operating and maintenance manuals. Include operating instructions, maintenance recommendations for equipment and finishes, parts list, troubleshooting information and similar data. Manual must be approved prior to training of Owner's personnel.
- D. Contract Documents: Drawings are diagrammatic in part and are meant to indicate general arrangement of systems and equipment. Information shown on plans but not on sections or schedules and vice-versa, shall be provided as if expressly required on both. It is not intended that Contract Documents indicate every fitting offset, line or component necessary for particular suppliers system; but it is intended that systems and equipment supplied shall be complete and operational, whether or not shown or specified. Specified items may in fact be disapproved during Submittal Review if they do not form part of a complete system.
- E. Permits: Contractor shall be responsible for obtaining and paying for all permits, inspections, licenses and certificates required for work under this Section.

1.06 PRODUCT DELIVERY, STORAGE AND HANDLING:

- A. Deliver material in manufacturer's original, unopened containers and crates with all labels intact and legible.
- B. Deliver materials in sufficient time and quantity to allow continuity of work and compliance with approved construction schedule.
- C. Handle materials in a manner to prevent damage.
- D. Store all materials on clean raised platforms with weather protective covering when stored outdoors. Provide continuous protection of materials against damage and deterioration.
- E. Remove damaged materials from site.

1.07 GUARANTEES:

- A. Provide standard written manufacturers' guarantees in the Owner's name for materials furnished under this Section where such guarantees are offered in the manufacturers' published product data.
- B. Furnish written warranty for materials and workmanship of systems installed under this Section against defect in materials and workmanship for 1 year. Warranty to start on date of Substantial Completion.
- C. The Contractor warrants to the Owner that materials and equipment furnished under the Contract will be of good quality and new unless otherwise required or permitted by the Contract Documents, that the Work will be free from defects not inherent in the quality required or permitted and that the Work will conform with the requirements of the Contract Documents. Work not conforming to these requirements, including substitutions not properly approved and authorized may be considered defective. The Contractor's warranty excludes remedy for damage or defect caused by abuse, improper or insufficient maintenance, improper operation or insufficient maintenance, improper operation, modification not executed by the Contractor or the Owner; the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment. All warranties shall be for a period of one year from the date of Substantial Completion unless otherwise specified.
- D. The Contractor shall agree to repair or replace any Work at no cost to the Owner, upon written notification from the Owner within the warranty period. Prorated warranties are not acceptable.

PART 2 – PRODUCTS

2.01 MANUFACTURERS:

- A. Products of particular manufacturers have been specified to establish a standard of quality and performance.
- B. Proposals including list of manufacturers and itemized products for other systems will be reviewed by Engineer to determine their comparability to scope and quality required by Contract Documents.
- C. All equipment furnished hereunder shall be by manufacturers with at least 5 years' experience in the fabrication and installation of the item specified with at least 10 installations on public pools similar in scope to this project.

2.02 MATERIALS:

- A. As specified for individual items in each Section.

PART 3 – EXECUTION

3.01 TESTING AND BALANCING:

- A. Water for testing will be provided by Owner.
- B. Contractor shall furnish all costs associated with testing and balancing pool.
- C. When filling the pool, the Contractor shall not fill, more than 1-inch per hour as recommended by the grout and tile adhesive manufacturer.

END OF SECTION

SECTION 13 15 30

DECK EQUIPMENT AND POOL ACCESSORIES

PART 1 – GENERAL

1.01 WORK INCLUDED:

- A. Furnish and install pool grab rails anchors, to be installed and finished to match the deck, and shall be attached to existing bond grid.
- B. Furnish and install new fiberglass gutter grating.
- C. Furnish and install new deck depth markers, and wall depth markers on the adjacent wall.
- D. Provide signage as requested by Massachusetts Department of Public Health Code: 105 CMR 435.00: Minimum Standards for Swimming Pools (State Sanitary Code: Chapter V).
- E. Furnish and install a new 911 Emergency Phone.
- F. Replace the existing 6-inch PVC butterfly valve on the existing main drain gravity line with a new 6-inch PVC butterfly valve.

1.02 RELATED WORK:

- A. The related work shall be performed under other Sections:
 - 1. Section 01 33 23, SUBMITTALS
 - 2. Section 13 00 00, SUMMARY OF WORK FOR POOLS

1.03 DELIVERY, STORAGE AND HANDLING:

- A. Contractor shall protect the deck equipment from damage caused by work of other trades, weather, ground conditions or vandalism before, during and following installation.

1.04 GUARANTEE:

- A. Each manufacturer of the deck equipment shall provide the Owner with a separate written (minimum) one-year warranty against defective materials or workmanship starting on the date of Substantial Completion.

PART 2 – PRODUCTS

2.01 GRAB RAIL ANCHORS:

- A. Grab rail anchors shall be able to fit, 1.9-inch O.D. by 0.065-inch wall thickness grab rails.
- B. Anchors shall be T304 stainless steel or bronze.
- C. Bronze or stainless steel wedge anchor.
- D. The anchors shall be covered with a stainless steel escutcheon cover plate, 316 Stainless Steel and finish to match the grab rail system.

- E. Grab rail anchors shall be manufactured by Paragon, Spectrum, SR Smith or approved equal.

2.02 WALL DEPTH MARKER SIGNAGE:

- A. Wall depth markers must be installed on the wall directly adjacent to the pool deck depth marker.
- B. The wall depth markers shall be made from a minimum of ¼-inch composite material, with engraved lettering. The lettering shall be a minimum of 6-inches in height. Letters shall be black in color. The background of the sign shall be white. In water depths that are less than 5-feet, a "No Diving" symbol shall be included on the sign.
- C. The sign shall be mounted with, 316 Stainless Steel hardware.
- D. Pool signs shall be manufactured by Fossil Industries, Seton, Brady ID, or approved equal.

2.03 HEALTH AND SAFETY SIGNAGE:

- A. Furnish and install health and safety signs in accordance with Massachusetts Minimum Standards for Swimming Pools, 105 CMR 435.00.
 - 1. Provide (1) set of signs to be installed in the exit area to the men's locker room shower area, (1) set of signs to be installed in the exit area to the women's locker room shower, and (1) sign to be installed at center of the pool on the wall below the grandstands.
 - 2. The sign shall read as follows:
 - (1) No person having a communicable disease shall be employed or work at a swimming, wading or special purpose pool.
 - (2) The following regulations shall be enforced by the operator:
 - (a) No bather shall enter the pool unless he / she first takes a cleansing shower.
 - (b) No bather shall wear a bathing suit that is unclean.
 - (c) No person suffering from a fever, cough, cold, inflammation of the eyes, nasal or ear discharges, or any communicable disease shall be allowed the use of the pool.
 - (d) No person with sores or other evidence of skin disease, or who is wearing a bandage or medical covering of any kind, shall be allowed the use of the pool.
 - (e) No person shall spit in or in any other way contaminate the pool, or its floors, walkways, aisles, or dressing rooms.
 - (f) No glass, with the exception of shatterproof light shields, shall be permitted in the pool or on walkways within eight feet of the pool.
 - (g) No person shall bring or throw into the pool any object that may in any way carry contamination or endanger the safety of bathers.
 - 3. The operator shall cause a sign to be placed at the entrance of the pool enclosure, or on a wall of the dressing room where one is provided, which reads substantially as follows:

"All persons are required to take a cleansing shower bath before entering".
- B. Health and Safety signs shall be manufactured from a minimum of ¼-inch composite material, and shall be mounted with 316 Stainless Steel hardware. Lettering shall be a minimum of 1-inch in height and shall be black. The background of the sign shall be white.
- C. Pool signs shall be manufactured by Fossil Industries, Seton, Brady ID, or approved equal.

2.04 FIBERGLASS GUTTER GRATING:

- A. Remove and dispose of the existing aluminum grating in the gutter.
- B. Furnish and install fiberglass grating in the stainless steel skimming gutter.
- C. The fiberglass material shall be white in color, a minimum of 0.675-inches in thickness, shall be reinforced in order to be un-supported for a maximum span of 34-inches, and shall be a minimum of 9-inches in width.
- D. The grating shall have .375-inch diameter holes, 240 holes required per 12-Foot sections.
- E. The grating shall be cut to size to fit in the trough opening; the grating shall be installed to provide a tight fit. The grating shall utilize the factory installed rubber edging on the fiberglass grating, and shall press up against the stainless steel gutter trough edge. The grating shall be cut to size, so the ends of the fiberglass grating will land in the center of the stainless gutter supports.
- F. The Contractor is responsible for installing any grating supports where the span is greater than 34-inches, and shall provide supports at corners of the gutter.
- G. The grating shall be manufactured by Aquatic Development Group – Whitten Products, or approved equal.

2.05 FLOAT LINES AND ANCHORS:

- A. Furnish and install polyester line with polyethylene core with PVC floats and stainless steel hooks and anchors at locations shown on plans.

2.06 EMERGENCY 911 TELEPHONE:

- A. Furnish and install an enclosed emergency telephone, with handset and keypad. The phone shall be enclosed in a water tight composite case, and powered by a land line.
- B. The emergency 911 telephone shall be manufactured by Rath-Pool Phones, or approved equal.

2.07 POLYVINYL CHLORIDE (PVC) BUTTERFLY VALVES:

- A. Provide PVC butterfly valves as manufactured by ASAHI/America, Medford, MA; NIBCO, Inc., Elkhart, IN; or approved equal.
- B. All ball valves shall be of the flanged model with one-piece capsules and shall open counterclockwise. Valves shall be rated for 150 psi at 120 degrees F.
- C. Full face gaskets having a 50 to 70 durometer "A" hardness shall be used.
- D. Valves 2 ½-inch or small shall be ball valves, all valves 3-inch or larger shall be butterfly valves.
- E. Butterfly valve bodies shall be constructed of PVC, with Teflon seats and Viton seals.

PART 3 – EXECUTION

3.01 INSPECTION:

- A. Verify mechanical and electrical rough-in services for sizes, types and locations. Verify adequacy of electrical grounding, shall be performed by a licensed electrical contractor.

- B. Start of this work constitutes acceptance of substrates as suitable for satisfactory performance of work of this Section.

3.02 INSTALLATION:

- A. Pool and Deck Equipment shall be installed in accordance with the manufacturers' recommendations. Provide anchors and inserts required in other construction and core drill holes to accept all rails located in pool and epoxy grout to provide secure, durable installations. Ground all metal items electrically to a single pool grounding system.

- 1. All exposed welds shall be ground and cleaned with all discoloration removed, to provide a smooth, uniform non-corrosive finish matching the basic stainless material. Use grout or sealant only as recommended by manufacturer to maintain service guarantees.

3.03 PROTECTION:

- A. Protection: The pool contractor shall use whatever methods are required to protect pool finish and equipment from deterioration during remainder of the construction period.

END OF SECTION

SECTION 13 15 40

SWIMMING POOL GROUT AND TILE REPLACEMENT

PART 1 - GENERAL

1.01 WORK INCLUDED:

A. SWIMMING POOL GROUT REPLACEMENT:

1. The dimensions of the existing competition pool are 75'-6" by 42'-6". The Contractor shall conduct his own measurements to verify the grout and tile replacement quantities for his bid.
2. The Contractor shall remove the existing grout on the floors and walls of the competition pool. The Contractor shall replace the existing grout with an epoxy grout. The limit of the work for grout removal and replacement shall be all submerged tile in the pool, and the perimeter of the pool deck that is currently tiled.
3. The Contractor shall remove the existing painted tile at the 5-Foot deep break line, and the 12-Foot deep depth. The tile shall be replaced with contrasting color tile at the 5-Foot deep break line, and white tile at the 12-foot depth line.
4. The Contractor shall install contrasting colors on all exposed edges and steps found in the pool. These edges and steps includes ladders.
5. The Contractor shall install new ceramic depth marker tiles and "No Diving" symbols around the perimeter of the pool as shown in the contract documents.
6. The Contractor shall install contrasting color tile at the ends of the completion lanes to create a target symbol on the walls of the pool.
7. The methods for grout removal may include pressurized water or hand scraping. No acid or acid wash shall be used to remove the existing grout.
8. The Contractor shall meet with the Engineer and Owner to demonstrate grout removal to set method and water pressure to ensure that tile is not removed by the removal method.
9. The Contractor shall submit the proposed method for grout removal that was included in his bid price for review and approval by the Engineer and Owner.
10. The Contractor shall be responsible for the collection and disposal of slurry and water generated through the grout removal process. The Contractor shall prevent any slurry from traveling into the main drain or main drain lines.

B. SWIMMING POOL TILE REPLACEMENT:

1. It is estimated that approximately fifteen percent (15%) of the tile is loose and shall be removed, during grout removal, and replaced.
2. The Contractor shall meet with the Engineer and Owner to review locations where the Contractor is proposing to remove and replace tile.
3. The Contractor shall submit the proposed method for tile and setting bed removal for review and approval by the Engineer and Owner.

4. At locations where tile is to be replaced and after the pool tile and setting bed has been removed, the Contractor, Engineer, Owner and a representative from the material manufacturer shall determine the method and setting bed material needed for the new tile.
5. No acid or acid wash shall be used to remove the existing grout, tile or setting bed.
6. Ceramic tile finish on entire pool walls, depth markers on pool walls and floor and wall targets, racing lanes and warning stripes shall be replaced in-kind in approximately fifteen percent of the pool.
7. The Contractor shall include unit price per square foot for tile replacement.

1.02 RELATED WORK:

- A. The following items of related work are specified and included in other Sections of the Specification:

1. Section 01 33 23, SUBMITTALS

1.03 QUALITY ASSURANCE:

Work and materials for tiling shall be in accordance with system W244-91 of the TCA Handbook.

1.04 REFERENCES:

- A. The following standards for a part of these specifications as referenced:

American Society for Testing and Materials (ASTM)

ASTM	C1028	Tile Slip Resistance
ASTM	C1027	Tile Resistance to Abrasion and Tread Wear
ASTM	C1026	Tile Resistance to Freeze-Thaw Cycling
ASTM	C373	Tile Water Absorption
ASTM	C650	Tile Chemical Resistance
ASTM	C648	Tile Break Strength
ASTM	C1378	Tile Stain Resistance and Maintainability
ASTM	C150	Portland Cement
ASTM	C144	Aggregate for Masonry Mortar
ASTM	C207	Hydrated Lime for Masonry Purposes

American National Standards Institute (ANSI)

ANSI A108/A118/A136.1 Installation of Ceramic Tile

ANSI A137.1 Ceramic Tile

Tile Council of North America

2011 TCNA Handbook for Ceramic, Glass and Stone Tile Installation

- 1.05 SUBMITTALS: IN ACCORDANCE WITH REQUIREMENTS OF GENERAL SPECIFICATIONS, SUBMIT THE FOLLOWING:
- C. Six sets of shop drawings indicating tile layout, patterns, color arrangement, perimeter conditions, junctions with dissimilar materials, thresholds and setting details.
 - D. Three full size samples of each color tile selected, one full size sample of each special shape required, and samples of divider strip and of cured pointing mortar shall be submitted to the Engineer for review before the tile is ordered for this work. Samples of pointing mortar shall be resubmitted as required until color and texture are approved by the Engineer.
 - E. Furnish a complete tile mock up board on a 3-Foot by 3-Foot board showing the mortar beds, proposed tile with proposed contracting tile, and proposed grout color for the Engineer and Owners review and approval.
- 1.06 PRODUCT DELIVERY AND STORAGE:
- F. Deliver tile materials to site in unopened factory containers sealed with Grade Seals bearing printed name or manufacturer and the words "Standard Grade". Keep the Grade Seals intact and containers dry until tiles are used.
 - G. Tile accessory materials shall be protected from damage and deterioration during delivery, storage and installation.
 - H. Tile containers shall not be opened or the manufacturer's seals broken until they have been inspected by the Engineer.
 - I. A master grade certificate shall be submitted to the Engineer. The certificate shall be the signature of the installer and the manufacturer and shall state the kinds and grades of tile furnished. The identification marks on the tile shall correspond with marks on the certificate.
 - J. Keep cementitious materials dry until used.
- 1.07 GUARANTEES:
- K. The Contractor shall agree to repair or replace any Work at no cost to the Owner, upon written notification from the Owner within the one year warranty period.

PART 2 - PRODUCTS

- 2.01 BASIC MATERIALS:
- A. Portland Cement: ASTM C150, Type II, low alkali.
 - B. Hydrated Lime: ASTM C207, Type S.
 - C. Mortar Sand: ASTM C144 at least sand except all passing the No. 30 sieve.
 - D. Joint Sand: Same as mortar sand except all passing the No. 30 sieve.
 - E. Water: Clean and fresh, from domestic potable source.
 - F. Color Pigments: Pure ground mineral oxides, non-fading, alkali and lime proof, factory weighed and packaged.

- G. Mortar admixture shall be in accordance with manufacturer's instructions.

2.02 TILE MATERIALS:

- A. Standard Grade conforming to ANSI A137.1. Provide trimmer units as indicated and specified, including special shapes as detailed or required. Tile patterns and colors shall be as indicated and specified, colors of approved shades. Mesh mounted or perforated paper backed tile is not allowed where the mesh of paper remains as a permanent part of the installation. Provide tile as manufactured by American Olean, Dal Tile, Armstrong Ceramic Tile, or approved equal.
- B. Unglazed Ceramic Mosaic Tile (TILE SHALL BE REPLACED IN KIND):
1. Type: Porcelain unglazed ceramic mosaic tile, cushion or all-purpose edges, 1-inch square unless otherwise noted.
 2. Ceramic tile below the pool gutter lip, crown detail at stairs, pool steps including recessed steps, code compliance break lines, and wall targets shall be selected by Owner, "Unglazed", 1-inch by 1-inch. The color shall match existing tile.
 3. Contrasting ceramic tile nosings at pool ladder rungs stairs shall be selected by Owner "Unglazed". Bull nose tile or corner bullnose tile will be used to define exposed edges around the pool.

2.03 THICK SETTING BED MORTAR (USED FOR REPAIR OF TILE IN AREAS WHERE THICK SET IS REMOVED FROM ORIGINAL INSTALLATION):

- A. Latex Portland Cement Mortar for thick beds, screeds, leveling beds and scratch/plaster coats to be weather, frost, shock resistant, GreenGuard compliant, and meet the following physical requirements:
1. Compressive Strength (ANSI A118.4 Modified): >4,000 psi (27.6 MPa)
 2. Water Absorption (ANSI A118.6): ≤ 5%
 3. Service Rating (TCA/ASTM C627): Extra Heavy
 4. Smoke & Flame Contribution (ASTM E84 Modified): 0
 5. Total VOC Content: < 0.05 mg/m³
- B. Product shall be the LATICRETE 226 thick Bed mortar gauged with the LATICRETE 3701 Latex additive as Manufactured by LATICRETE International, Bethany, CT, or approved equal.

2.04 THIN SETTING BED MORTAR (USED FOR REPAIR OF TILE IN AREAS WHERE THIN SET IS REMOVED FROM ORIGINAL INSTALLATION):

- A. Latex Portland Cement Medium Bed Mortar for thin set and slurry bond coats to be weather, frost, shock resistant, non-flammable, GreenGuard compliant, and meet the following physical requirements:
1. Compressive strength (ANSI A118.4): >2500 psi (17.2 MPa)
 2. 28 Day bond strength (ANSI A118.4): ≥300 psi (2.1 MPa)
 3. 7 day water soak bond strength (ANSI A118.4): ≥190 psi (1.3 MPa)
 4. Sag Resistance (EN 1308): 0 mm
 5. Total VOC Content: < 0.05 mg/m³
- B. Product shall be the LATICRETE 254 Platinum thinset mortar as Manufactured by LATICRETE International, Bethany, CT, or approved equal.

2.05 BOND COAT:

- A. Bond coat shall be Laticrete 211 Crete filler powder gauged with Laticrete 4237 Liquid. The setting mortar shall be water-resistant, weather, frost and shock resistant. TCA rating, extra heavy duty. Follow the manufacturer's instructions. Bond coat shall be manufactured by LATICRETE International, Bethany, CT, or approved equal.

2.06 EPOXY TILE JOINT GROUT (USED FOR GROUT REPLACEMENT):

- A. Epoxy Grout color shall be white.
- B. Epoxy Grout (Industrial) shall be non-flammable, chemical resistant 100% solids epoxy with high temperature resistance, GreenGuard compliant, and meeting the following physical requirements:
- | | | |
|----|---|----------------------|
| 1. | Initial Set Time (ANSI A118.5): | Pass (4 hours) |
| 2. | Service Set Time (ANSI A118.5): | Pass (< 7 days) |
| 3. | Shrinkage (ANSI A118.3): | 0.07% |
| 4. | Sag (ANSI A118.3): | Pass (No sag) |
| 5. | Shear Bond Strength (ANSI A118.3; quarry tile): | 2,200 psi (15.2 MPa) |
| 6. | Compressive Strength (ANSI A118.3): | 8,300 psi (57.2 MPa) |
| 7. | Tensile Strength (ANSI A118.5): | 3,000 psi (20.7 MPa) |
| 8. | Thermal Shock Resistance (ANSI A118.3): | 2,100 psi (14.5 MPa) |
| 9. | Cured Epoxy Grout to be chemically and stain resistant to ketchup, mustard, tea, coffee, milk, soda, beer, wine, bleach (3% solution), ammonia, juices, vegetable oil, detergents, brine, sugar, cosmetics and blood, as well as being chemically resistant to dilute food/mineral acids, gasoline and mineral spirits. | |
- C. Product shall be the LATICRETE SpectraLOCK Pro Premium as Manufactured by LATICRETE International, Bethany, CT, or approved equal.

2.07 DECK DEPTH MARKERS:

- A. The depth of the water should be plainly marked at the pool's deck edge. Depth markers shall be placed on the deck where the pool changes directions, at every one foot depth change with depths under 5-feet, and less than a linear distance of 25-feet, as required by the Massachusetts Department of Health 105 CMR 435. A "No Diving" symbol shall accompany the deck depth marker where depths are less than 5-Feet.
- B. Deck depth markers shall be black lettering with a white background. The ceramic tile shall be finished with a non-skid surface. Deck depth markers digits and lettering shall be a minimum of 4-inches in height.

PART 3 - EXECUTION

3.01 INSPECTION BEFORE INSTALLATION:

- A. Tile installer shall verify that surfaces to be covered with ceramic tile, mosaics, pavers, brick, masonry veneer, stone, trim or waterproofing are:
1. Sound, rigid and conform to good design/engineering practices;
 2. Systems, including the framing system and panels, over which tile or stone will be installed shall be in conformance with the International Building Code (IBC) for commercial applications, or applicable building codes. The project design should include the intended use and necessary allowances for the expected live load, concentrated load, impact load, and dead load including the weight of the finish and installation materials. In addition to deflection considerations, above-ground installations are inherently more susceptible to vibration. Consult grout, mortar, and membrane manufacturer to determine appropriate

installation materials for above-ground installations. A crack isolation membrane and higher quality setting materials can increase the performance capabilities of above-ground applications. However, the upgraded materials cannot mitigate structural deficiencies including floors not meeting code requirements and/or over loading or other abuse of the installation in excess of design parameters. Maximum allowable floor member live load and concentrated load deflection shall not exceed $L/360$ for tile, or, $L/480$ for stone, where L is the clear span length of the supporting member per applicable building code;

3. Clean and free of dust, dirt, oil, grease, sealers, curing compounds, laitance, efflorescence, form oil, loose plaster, paint, and scale.
 4. For thin-bed ceramic tile installations when a cementitious bonding material will be used, including medium bed mortar: maximum allowable variation in the tile substrate – for tiles with edges shorter than 15-inch (375mm), maximum allowable variation is $\frac{1}{4}$ -inch in 10-feet (6mm in 3m) from the required plane, with no more than 1/16-inch variation in 12-inch (1.5mm variation in 300mm) when measured from the high points in the surface. For tiles with at least one edge 15-inch (375mm) in length, maximum allowable variation is 1/8-inch in 10-feet (3mm in 3m) from the required plane, with no more than 1/16-inch variation in 24-inch (1.5mm variation in 600mm) when measured from the high points in the surface. For thick bed (mortar bed) ceramic and stone tile installations and self-leveling methods: maximum allowable variation in the installation substrate to be $\frac{1}{4}$ -inch in 10-feet (6mm in 3m);
 5. Consult with finish materials manufacturer to determine the maximum allowable moisture content for substrates under their finished material. Please refer to LATICRETE TDS 183 “Drying of Concrete” and TDS 166 “LATICRETE and Moisture Vapor Emission Rate, Relative Humidity and Moisture Testing of Concrete”.
 6. Dry as per American Society for Testing and Materials (ASTM) D4263 “Standard Test for Determining Moisture in Concrete by the Plastic Sheet Method.”
- B. Concrete surfaces shall also be:
1. Cured a minimum of 28 days at 70°F (21°C), including an initial seven (7) day period of wet curing;
 2. Wood float finished, or better, if the installation is to be done by the thin bed method.
- C. Advise Engineer and Owner of any surface or substrate conditions requiring correction before tile work commences. *Beginning of work constitutes acceptance of substrate or surface conditions.*
- 3.02 PREPARATION:
- A. Clean substrates of dust, dirt, oil, grease and deleterious substances and mechanically roughen concrete and shotcrete for bond. Conform to applicable Reference Standards and to recommendations of manufacturers of materials used.
 - B. Substrates to Receive Mortar Setting Beds: Keep cementitious backing damp for at least 8 hours and scrub with neat Portland Cement slurry just prior to placing setting bed mortar.
 - C. Tile Wetting: Dampen tile according to above Reference Standards or tile manufacturer's instructions, as required.
 - D. Screeds: Accurately set temporary screeds to control the finish plane of mortar-bed set tile and remove as soon as setting bed is sufficiently hardened. Fill void spaces from screeds with same mortar.

3.03 INSTALLATION – TILE

- A. *General:* Install in accordance with current versions of American National Standards Institute, Inc. (ANSI) "A108 American National Standard Specifications for Installation of Ceramic Tile" and TCNA "Handbook for Ceramic, Glass, and Stone Tile Installation" Cut and fit ceramic tile, glass tile, masonry veneer, brick or stone neatly around corners, fittings, and obstructions. Perimeter pieces to be minimum half tile, brick or stone. Chipped, cracked, split pieces and edges are not acceptable. Make joints even, straight, plumb and of uniform width to tolerance +/- 1/16-inch over 8-feet (1.5mm in 2.4m). Install divider strips at junction of flooring and dissimilar materials. When glass tile is used, consult glass tile manufacturer for membrane options and recommendations. Where installation will be subjected to freeze/thaw cycles, snow and ice accumulation, and/or snow melting chemicals, degradation can occur over time.
- B. *Thin Bed Method:* Install latex portland cement mortar in compliance with current revisions of ANSI A108.02 (3.11), A108.1B and ANSI A108.5. Use the appropriate trowel notch size to ensure proper bedding of the tile, brick or stone selected. Work the latex portland cement mortar into good contact with the substrate and comb with notched side of trowel. Spread only as much latex portland cement mortar as can be covered while the mortar surface is still wet and tacky. When installing large format (>8-inch x 8-inch/200mm x 200mm) tile/stone, rib/button/lug back tiles, pavers or sheet mounted ceramics/mosaics, spread latex portland cement mortar onto the back of (i.e. 'back-butter') each piece/sheet in addition to trowelling latex portland cement mortar over the substrate. Beat each piece/sheet into the latex portland cement mortar with a beating block or rubber mallet to insure full bedding and flatness. Allow installation to set until firm. Clean excess latex portland cement mortar from tile or stone face and joints between pieces.

1. *Use the following LATICRETE System Materials:*
LATICRETE 254 Platinum

References:

LATICRETE Data Sheet: 677.0

LATICRETE MSDS: 254

GREENGUARD Certificate: 254

LATICRETE Technical Data Sheets: 105, 118, 128, 154, 199, 209

C. *Grouting or Pointing of Tile:*

1. *Chemical Resistant, Water Cleanable Tile-Grouting Epoxy (ANSI A118.3):* Follow manufacturer's recommendations for minimum cure time prior to grouting. Store liquid components of LATICRETE® SpectraLOCK® PRO Premium Grout† for 24 hours @ 70-80°F (21-27°C) prior to use to facilitate mixing and application. Substrate temperature must be 40-95°F (4-35°C). Verify joints are free of dirt, debris or grout spacers. Sponge or wipe dust/dirt off tile faces and remove water standing in joints. Apply grout release to face of absorptive, abrasive, non-slip or rough textured ceramic tile, pavers, bricks, stone or trim units that are not hot paraffin coated to facilitate cleaning. Cut open pouch and pour LATICRETE® SpectraLOCK® PRO Premium Grout Part A Liquid into a clean mixing pail. Then open pouch and pour LATICRETE SpectraLOCK PRO Premium Grout Part B Liquid into the mixing pail. Mix by hand or with a slow speed (<300 rpm) mixer until the two liquids are well blended. Then, while mixing, add LATICRETE SpectraLOCK Grout Part C Powder and blend until uniform. For narrow joints, it is acceptable to leave out up to 10% of the LATICRETE SpectraLOCK Grout Part C Powder to produce a more fluid mix. Install LATICRETE SpectraLOCK PRO Premium Grout† in compliance with current revisions of ANSI A108.02 (3.13) and ANSI A108.6 (3.0 - 4.0). Spread using a sharp edged, firm rubber float and work grout into joints. Using strokes diagonal (at 45° angle) to the grout lines, pack joints full and free of voids/pits. Then hold float face at a 90° angle to grouted surface and use float edge to "squeegee" off excess grout, stroking diagonally to avoid pulling grout out of filled joints. Once excess grout is removed, a thin film/haze will be left. Initial cleaning of the remaining film/haze can begin approximately 20 minutes after grouting (wait longer when temperatures are cooler). Begin by mixing one cleaning additive packet with 2 gallons (7.6 L) of clean water in a clean bucket to make cleaning solution. Dip a clean sponge into the bucket and

then wring out cleaning solution until sponge is damp. Using a circular motion, lightly scrub grouted surfaces with the damp sponge to loosen grout film/haze. Then drag sponge diagonally over the scrubbed surfaces to remove froth. Rinse sponge frequently and change cleaning solution at least every 50 ft² (4.7m²). Discard sponges as they become "gummy" with residue. Check work as you clean and repair any low spots with additional grout. One (1) hour after finishing first cleaning, clean the same area again following the same procedure but utilizing a clean white scrub pad and fresh cleaning solution. Rinse scrub pad frequently. Drag a clean sponge diagonally over the scrubbed surfaces to remove froth. Use each side of sponge only once before rinsing and change cleaning solution at least every 50 ft² (4.7m²). Allow cleaned areas to dry and inspect tile/stone surface. For persistent grout film/haze (within 24 hours), repeat scrubbing procedure with undiluted white vinegar and clean pad. Rinse with clean water and allow surface to dry. Inspect grout joint for pinholes/voids and repair them with freshly mixed LATICRETE SpectraLOCK PRO Premium Grout. *Cautions: Do not use undiluted white vinegar on polished marble or limestone unless a test spot in an inconspicuous area indicates no change in finish appearance; do not use acid cleaners on epoxy grout less than 7 days old.*

2. *Use the following LATICRETE System Materials:
LATICRETE SpectraLOCK PRO Premium Grout*

References:

LATICRETE Data Sheets: 681.0, 681.5

LATICRETE MSDS: Premium Part A, Premium Part B, Part C Powder, Cleaning Additive

GREENGUARD Certificate: PRO Premium

LATICRETE Technical Data Sheets: 111, 198, 216, 400

- D. *Adjusting:* Correction of defective work for a period of one (1) year following Substantial Completion, return to job and correct all defective work. Defective work includes, without limitation, tiles broken in normal abuse due to deficiencies in setting bed, loose tiles or grout, and all other defects which may develop as a result of poor workmanship.
- E. Contractor may submit alternate method for expansion joints based on existing conditions and manufacturer's and installer's warranties.

3.04 CLEANING

- A. Clean excess mortar/epoxy from veneer surfaces with water before they harden and as work progresses. Do not contaminate open grout/caulk joints while cleaning. Sponge and wash veneers diagonally across joints. Do not use acids for cleaning. Polish with clean dry cloth. Remove surplus materials and leave premises broom clean.

3.05 PROTECTION

- A. Protect finished installation. Keep all traffic off finished tile floors until they have fully cured. Builder shall provide up to ¾-inch (19mm) thick plywood or OSB protection over non-staining Kraft® paper to protect floors after installation materials have cured. Covering the floor with polyethylene or plywood in direct contact with the floor may adversely affect the curing process of grout and latex/polymer fortified portland cement mortar. Keep traffic off horizontal portland cement thick bed mortar installations for at least 72 hours at 70°F (21°C).
- B. Keep floors installed with epoxy adhesive closed to foot traffic for 24 hours @ 70°F (21°C), and to heavy traffic for 48 hours @ 70°F (21°C) unless instructed differently by manufacturer. Use kneeling boards, or equivalent, to walk/work on newly tiled floors. Cure tile work in swimming pools applications for 10 days @ 70°F (21°C) for epoxy based grout before flood testing or filling installation with water. Extend period of protection of tile work at lower temperatures, below 60°F (15°C), and at high relative humidity (>70% RH) due to retarded set times of mortar/adhesives. Replace or restore work of other trades damaged or soiled by work under this section.

END OF SECTION

NEW BEDFORD HIGH SCHOOL INDOOR SWIMMING POOL UPGRADES

230 HATHAWAY BLVD, NEW BEDFORD, MASSACHUSETTS 02740

SEPTEMBER 17, 2014

OWNER NEW BEDFORD SCHOOLS

NEW BEDFORD MA

230 Hathaway Blvd, New Bedford, MA, US, 02740

ARCHITECT



47 No. Second Street, New Bedford MA 02740

(508) 991-7500 TEL

(508) 991-7501 FAX

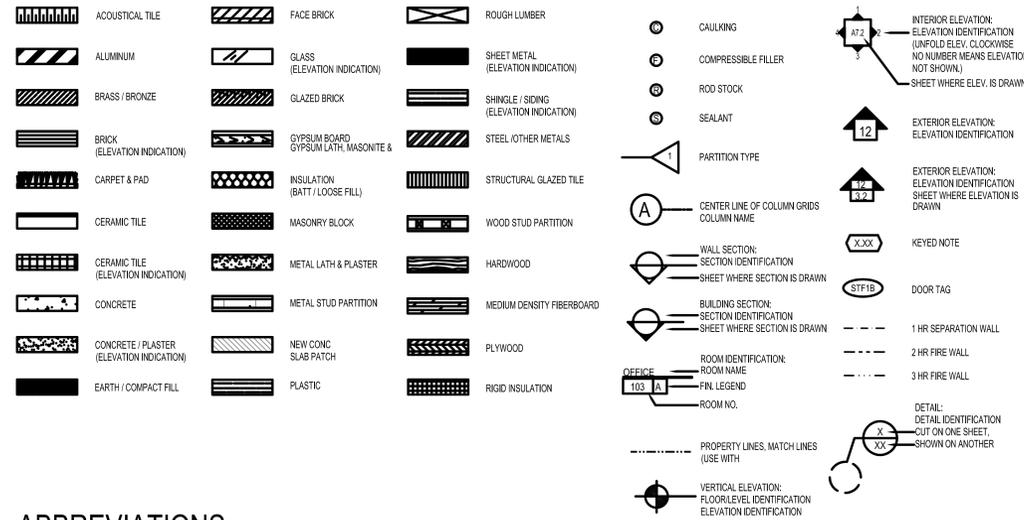
CONSULTANTS

STRUCTURAL ENGINEER
SOUZA TRUE AND PARTNERS, INC.
635 Mount Auburn Street
Watertown, MA 02472
(617) 928-6100

MECHANICAL, ELECTRICAL AND PLUMBING ENGINEERS
SAR ENGINEERING, INC.
10 Granite Street
Quincy, MA 02169
(617) 328-9218

POOL ENGINEERS
AQUATICS GROUP
A DIVISION OF WESTON&SAMPSON
85 Devonshire Street
Third Floor
Boston, MA 02109
(617) 412-4480

SYMBOLS:

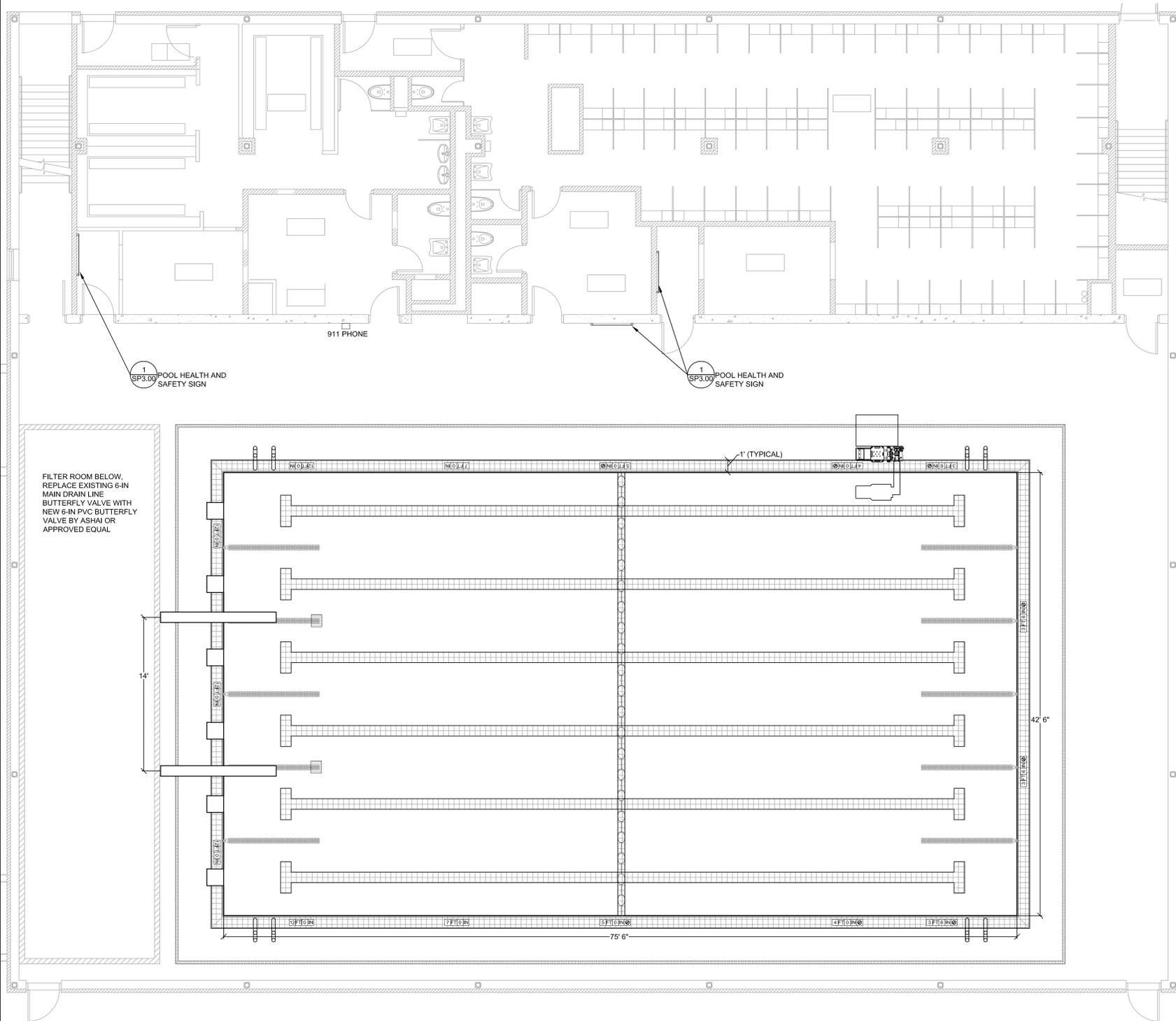


ABBREVIATIONS:

ACQUST.	ACOUSTICAL	DN.	DOWN	G.S.U.	GLAZED STRUCTURAL UNIT	M.T.	METAL THRESHOLD	SH.	SHELVES	W.P.	WATERPROOFING
A.D.	ADJUSTABLE	DO.	DITTO (REPEAT)	GYP.	GYPSUM WALLBOARD	MTD.	MOUNTED	SHT.	SHEET	WT.	WEIGHT
AFF	ABOVE FINISHED FLOOR	D.O.	DOOR OPENING	G.W.B.	GYPSUM WALLBOARD	MTL.	METAL	S.I.G.S.	SILICON IMPREGNATED GYPSUM SHEATHING	W.W.M.	WELDED WIRE MESH
ALU.	ALUMINUM	DSP.	DISPENSER	H.C.	HANDICAP	M.M.C.	MISC. METAL CONTRACTOR	SM.	SIMILAR	X.	INDICATES TIMES OR BY YARD
ALUM.	ALUMINUM	D.W.	DRY WALL	H.C.P.	HANDICAP	NAT.	NATURAL	S.L.D.	SLIDING	Y.D.	ZEE (STRUCTURAL SHAPE)
ANCH.	ANCHOR	DWG.	DRAWING	H.C.P.	HANDICAP	N.C.	NONCORROSIVE	SPEC.	SPECIFICATIONS	Z	
APPROX.	APPROXIMATELY	EA.	EACH	HD	HIGH DENSITY	N.C.	NOT IN CONTRACT	SO.	SQUARE		
@	AT	ED.	EDUCATION	HDWR.	HARDWARE	N.L.C.	NUMBER	STOR.	STORAGE		
BO.	BOARD	EDSP.	ENDSPLASH	H.M.	HOLLOW METAL	NOM.	NOMINAL	S.T.	STRUCTURAL TUBE		
BKSP.	BACKSPLASH	E.J.	EXPANSION JOINT	HORIZ.	HORIZONTAL	O.A.	OVERALL	S.T.	STRUCTURAL TUBE		
BKT.	BRACKET	EL.	ELEVATION (GRADE)	HR.	HOUR	O.C.	ON CENTER	S.S.	STAINLESS STEEL		
BLDG.	BUILDING	ELEC.	ELECTRICAL	HT.	HEIGHT	O.C.	ON CENTER	STD.	STANDARD		
BLK.	BLOCK	ELEV.	ELEVATION (FACADE)	HVAC	HEATING, VENTILATING & AIR CONDITIONING	O.D.	OUTSIDE DIAMETER	STL.	STEEL		
BLKG.	BLOCKING	ELEV.	ELEVATOR	I.D.	INSIDE DIAMETER	O.H.	OPPOSITE HAND	STRUC.	STRUCTURAL		
BN.	BEAM	EQ.	EQUAL	IN2	INCH INCHES	OPR.	OPERATE	SUSP.	SUSPENDED		
BSMT.	BASEMENT	E.S.	EACH SIDE	IN3	CUBIC INCHES	OPNG.	OPENING	T.	TREADS		
		E.T.R.	EXISTING TO REMAIN	IN4	INCH INCHES	OVHD.	OVERHEAD	TABLE.	TABLE		
		EXH.	EXHAUST	IN2	SQUARE INCHES	OZ.	OUNCE(S)	T.B.	TACK BOARD		
		EXST.	EXISTING	INCAN.	INCANDESCENT	PARTN.	PARTITION	T.C.	TERRA COTTA		
CG	CORNER GUARD	EXP. JT.	EXPANSION JOINT	INFL.	INFILTRATION	PERM.	PERIMETER	TEL.	TELEPHONE		
CAB.	CABINET	EXP.	EXPOSED	INSUL.	INSULATION	PERP.	PERPENDICULAR (TO)	TERR.	TERRAZZO		
C.B.	CHALK BOARD	EXT.	EXTERIOR	INT.	INTERIOR	P.L.	PLASTIC LAMINATE	TAG	TONGUE & GROOVE		
CEN.	CEMENT	EXTIN.	EXTINGUISHER	INV.	INVERT	PL.	PLATE	THK.	THICKNESS		
CER.V.C.T.	CERAMIC TILE	F.C.P.	FIBER CEMENT PANEL	JST.	JOIST	PLAS.	PLASTER	THRESH.	THRESHOLD		
C.G.	CORNER GUARD	F.D.C.	FIRE DEPT. CONNECTION	JT.	JOINT	PLMB.	PLUMBING	TLT.	TOILET		
C.I.	CAST IRON	F.D.V.	FIRE DEPT. VALVE			PLYWD.	PLYWOOD	T.O.B.	TOP OF BLOCKING		
C.J.	CAST IN PLACE	F.D.V.C.	FIRE DEPT. VALVE CABINET			P.N.L.	PANEL	T.O.C.	TOP OF CONCRETE		
CLG.	CEILING	FB.	FLAT BAR	LAM.	LAMINATED	POL.	POLISHED	T.O.S.	TOP OF STEEL		
CLKG.	CHALKING	F.C.	FIRE CODE	LB#	POUND	PR.	PAIR	T.W.	TOP OF WALL		
CLR.	CLEAR	F.D.	FLOOR DRAIN	L.C.	LEAD COATED	PTD.	PAINTED	TYR.	TYPICAL		
CLQS.	CLOSET	F.E.	FIRE EXTINGUISHER	L.D.P.	LAMINATED DRYWALL PART.	P.T.	PRESSURE TREATED	TWR.	TOWER		
C.M.U.	CONC. MASONRY UNIT	F.E.C.	FIRE EXTINGUISHER	LGTH.	LENGTH	Q.T.	QUARRY TILE	U.C.	UNDERCUT		
C.O.	CLEAR OPENING	FF.	FACTORY FINISH	L.G.H.	LENGTH	QTY.	QUANTITY	U.L.	UNDERWRITERS LABORATORY		
COL.	COLUMN	F.H.	FLAT HEAD	L.O.W.	LIMIT OF WORK			U.O.N.	UNLESS OTHERWISE NOTED		
CONC.	CONCRETE	F.H.C.	FIRE HOSE CABINET	L.P.	LOW POINT	r.	RADIUS	U.P.R.	UPPER		
C.H.P.	CONC. HOUSEKEEPING PAD	FIN.	FINISH	L.W.T.	LIGHT WEIGHT	R.	RIBSER	U.V.	UPPER VENTILATOR		
COND.	CONDITION	FL.	FLOOR	LVR.	LOUVER	RAD. ENCL.	RADIATOR ENCLOSURE	V.C.	VINYL CLAD		
CONST.	CONSTRUCTION	FL.	FLOOR			R.D.	ROOF DRAIN	VENT.	VENTILATOR		
CONT.	CONTINUOUS	FLUOR.	FLUORESCENT	MACH.	MACHINE	REINF.	REINFORCING	VERT.	VERTICAL		
CONTR.	CONTRACTOR	F.P.	FIRE PROOFING	MAS.	MASONRY	REFIG.	REFRIGERATOR	VEST.	VESTIBULE		
CORR.	CORRIDOR	F.S.	FIRE SHIELD	MAT.	MATERIAL	RESQ.	REQUIRED	V.V.C.	VINYL WALL COVERING		
C.R.	COLD ROLLED	FT.	FEET/FOOT	MAX.	MAXIMUM	RESIL.	RESILIENT				
CRS.	COURSES	FT2	SQUARE FEET	MECH.	MECHANICAL	RET.	RETAINING	W.	WIDE WIDE FLANGE		
CSK.	COUNTERSINK	FT3	CUBIC FEET	MEMBR.	MEMBRANE	RM.	ROOM	W/	WITH		
CTOP.	COUNTERTOP	F.D.	FRAMED OPENING	M.D.	METAL DOOR	R.O.	ROUGH OPENING	W.C.	WATER CLOSET		
CU.	CUBIC	FUR.	FURRING	MFG.	MANUFACTURER	R.W.L.	RAIN WATER LEADER	WD.	WOOD		
C.U.H.	CABINET UNIT HEATER	GA.	GALVE	MNL.	MINIMUM	R.W.L.	RESILIENT BASE	W.D.	WINDOW DIMENSION		
DA.	DOUBLE ACTING	GALV.	GALVANIZED	MISC.	MISCELLANEOUS	SCHD.	SCHEDULE	W.I.	WROUGHT IRON		
D.A.F.S.	DIRECT APPLIED FINISH SYSTEM	G.C.	GENERAL CONTRACTOR	M.D.G.	MISCELLANEOUS	SECT.	SECTION	WIND.	WINDOW		
DET.	DETAIL	GL.	GLASS	M.O.	MASONRY OPENING			W.O.	WINDOW OPENING		
D.F.	DRINKING FOUNTAIN	GR.	GRADE								

DRAWING LIST:

- ARCHITECTURAL:**
 A01.01 FLOOR AND REFLECTED CEILING PLANS
 A01.02 BUILDING SECTIONS AND DETAILS
 A01.03 REFERENCE IMAGES
- STRUCTURAL:**
 S100 CONCRETE REPAIR PLAN, NOTES & TYPICAL DETAILS
- PLUMBING:**
 P01.01 PLUMBING LEGEND, NOTES, DIAGRAMS & PLANS
- MECHANICAL:**
 M01.01 MECHANICAL LEGEND, LEGEND, GENERAL NOTES, SCHEDULES & DETAILS
 M01.01 MECHANICAL DEMOLITION & NEW WORK PLAN
- ELECTRICAL:**
 E01.01 ELECTRICAL LEGEND, GENERAL NOTES AND SCHEDULES
 E1.01 ELECTRICAL DEMO WORK PLANS
 E1.02 ELECTRICAL NEW WORK PLANS
- POOL ENGINEERING DRAWINGS:**
 SP1.00 POOL DECK PLAN AND GENERAL NOTES
 SP2.00 POOL DIMENSION PLAN SECTION AND DETAILS
 SP3.00 POOL DETAILS



1 POOL DECK PLAN
SCALE : 1/4"=1'-0"

DESIGN CODE COMPLIANCE:

105 CMR 435.00 MASSACHUSETTS MINIMUM STANDARDS FOR SWIMMING POOLS.....	3/20/1998
AMERICAN NATIONAL STANDARDS FOR PUBLIC POOLS - ANSINSP1.....	2003
AMERICAN NATIONAL STANDARDS FOR PUBLIC SPAS- ANSINSP2.....	1999
MASSACHUSETTS ELECTRICAL CODE(MEC).....	2014
VIRGINIA GRAEME BAKER POOL AND SPA SAFETY ACT.....	2008
ADAAG.....	2010

ENGINEER SEAL:

1. THESE DRAWINGS HAVE BEEN PREPARED FOR EXCLUSIVE USE FOR THE CLIENT AND ARE NOT INTENDED FOR ANY OTHER PURPOSE. TO THE BEST OF MY KNOWLEDGE, THESE DRAWINGS MEET THE REQUIREMENTS SET FORTH BY THE MASSACHUSETTS DEPARTMENT OF PUBLIC HEALTH (DOH).
2. THE POOL THAT IS INCORPORATED INTO THESE DRAWINGS MUST BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE APPROVED DRAWINGS IN ORDER TO QUALIFY FOR A DOH OPERATING PERMIT. ALL CHANGES MUST HAVE WRITTEN APPROVAL FROM WESTON & SAMPSON AND DOH PRIOR TO SUCH CHANGE OR ALTERATION BEING IMPLEMENTED.
3. THE ENGINEER SEAL AFFIXED TO THESE DRAWINGS IS LIMITED TO HYDRAULICS AND DOH COMPLIANCE.
4. ONLY DRAWINGS FROM WESTON & SAMPSON THAT ARE MARKED "FOR CONSTRUCTION" AND WITH THE DOH APPROVAL NUMBERS AND APPROVAL DATES AFFIXED SHALL BE USED FOR THE POOL CONSTRUCTION IMPLEMENTATION.

DEFINITIONS:

1. **CONTRACTOR:** PERSON OR ENTITY AUTHORIZED TO CONSTRUCT, INSTALL AND OPERATE A COMMERCIAL POOL, AND THEIR APPURTENANCES.
2. **CRITICAL:** THIS WORD DESCRIBES DIMENSIONS THAT SHALL NOT BE SUBJECT TO DEVIATION OR ERRORS FOR ANY REASON. VIOLATION OF A CRITICAL DIMENSION MIGHT SUBJECT THE POOL TO A POTENTIAL VARIANCE ACTION OR A PERMANENT WITHHOLDING OF A FUTURE OPERATING CERTIFICATE. WESTON & SAMPSON CONSIDERS ALL DIMENSIONS CONTAINED WITH THE DRAWINGS AS VITAL; HOWEVER, THE WORD CRITICAL IS ADDED TO ATTRACT THE ATTENTION OF THE CONTRACTOR.
3. **PROVIDE:** OBTAIN, PURCHASE, SUPPLY, INSTALL AND WARRANTY COMPLETELY IN ACCORDANCE WITH ALL CODES, RULES, REGULATIONS AND THE REQUIREMENTS OF THE DRAWINGS AND TECHNICAL SPECIFICATIONS.
4. **RAIL:** REFERS TO A HANDRAIL, LADDER, OR GRAB RAIL LOCATED AT A POOL. IT PROVIDES BATHER SUPPORT ASSISTANCE WHEN ENTERING OR EXITING A POOL.
5. **SLIP-RESISTANT:** A HORIZONTAL, NON-SKID TEXTURED SURFACE WITH A COEFFICIENT OF FRICTION RATED AT A MINIMUM 0.6, THE RESPONSIBILITY FOR VERIFICATION AND CONFIRMATION OF COMPLIANCE WITH THIS FRICTION REQUIREMENT IS SOLELY THAT OF THE CONTRACTOR. CERTIFIED MANUFACTURER BROCHURES MAY BE SUBMITTED TO WESTON & SAMPSON FOR APPROVAL. THE TERM "NON-SLIP" SHALL BE CONSIDERED THE SAME AS "SLIP-RESISTANT".

DEPTH MARKERS:

1. PERMANENT DEPTH MARKERS SHALL BE PLACED ON THE UPPER-MOST POOL WALLS AND DECK EDGE AT THE SHALLOW-END, SLOPE BREAK, AND DEEP END AREAS OF THE POOL PER THE REQUIREMENTS OF THESE DRAWINGS. ADDITIONAL DEPTH MARKINGS SHALL BE PLACED TO MAINTAIN A MAXIMUM 25-FOOT SPACING BETWEEN ALL MARKINGS. THE LETTERING SHALL BE A CONTRASTING COLOR TO THE BACKGROUND.
2. EACH DEPTH MARKING AND "NO DIVING" MARKING LOCATED ON THE DECK SURFACE (WITHIN 2-FEET OF THE WATER'S EDGE) SHALL BE OF A SLIP-RESISTANT MATERIAL AND BE CONTRASTING IN COLOR. AN APPROVED UNIVERSAL "NO DIVING SYMBOL" (USING THE COLOR "RED") MAY BE SUBSTITUTED FOR THE ABOVE "NO DIVING" MARKING.
3. THE MINIMUM LETTER HEIGHT OF EACH DEPTH MARKING SHALL BE 4-INCHES.
4. THE ONLY AUTHORIZED ABBREVIATION FOR "FEET", "INCHES", AND "METERS" SHALL BE "FT", "IN" AND "M" RESPECTIVELY.
5. PROVIDE 4-INCH HIGH "NO DIVING" MARKINGS (NON-SLIP) TO BE LOCATED ON TOP OF THE CURB OR DECK WITHIN 2-FEET OF THE POOL WATER'S EDGE AS WELL AS EVERY 25-FEET AROUND THE POOL.
6. ALL DEPTH MARKINGS SHALL BE LOCATED TO ACCURATELY DEPICT THE ACTUAL WATER DEPTH WITHIN 3-INCHES PROPER DETERMINATION OF THIS RULE COMPLIANCE SHALL REQUIRE MEASURING THE WATER DEPTH AT A LOCATION 3-FEET HORIZONTAL FROM THE VERTICAL WALL DEPTH MARKING.
7. THE DEPTH AT THE DEEPEST POINT/MAIN DRAIN GRATE SHALL NOT DEVIATE MORE THAN 3-INCHES FROM THE SIDEWALL DEPTH MARKINGS AT THAT LOCATION.

POOL RULES SIGN PER 105 CMR 435.22

1. NO PERSON HAVING A COMMUNICABLE DISEASE SHALL BE EMPLOYED OR WORK AT A SWIMMING, WADING OR SPECIAL PURPOSE POOL.
2. THE FOLLOWING REGULATIONS SHALL BE ENFORCED BY THE OPERATOR.
 - A. NO BATHER SHALL ENTER THE POOL UNLESS HE/SHE FIRST TAKES A CLEANSING SHOWER.
 - B. NO BATHER SHALL WEAR A BATHING SUIT THAT IS UNCLEAN.
 - C. NO PERSON SUFFERING A FEVER, COUGH, COLD, INFLAMMATION OF THE EYES, NASAL OR EAR DISCHARGES, OR ANY COMMUNICABLE DISEASE SHALL BE ALLOWED THE USE OF THE POOL.
 - D. NO PERSON WITH SORES OR OTHER EVIDENCE OF SKIN DISEASE, OR WHO IS WEARING A BANDAGE OR MEDICAL COVERING OF ANY KIND, SHALL BE ALLOWED THE USE OF THE POOL.
 - E. NO PERSON SHALL SPIT IN OR IN ANY OTHER WAY CONTAMINATE THE POOL, OR ITS FLOORS, WALKWAYS, AISLES, OR DRESSING ROOMS.
 - F. NO GLASS, WITH THE EXCEPTION OF SHATTERPROOF LIGHT SHIELDS, SHALL BE PERMITTED IN THE POOL OR ON WALKWAYS WITHIN EIGHT FEET OF THE POOL.
 - G. NO PERSON SHALL BRING OR THROW INTO THE POOL ANY OBJECT THAT MAY IN ANY WAY CARRY CONTAMINATION OR ENDANGER THE SAFETY OF BATHERS.
3. THE OPERATOR SHALL CAUSE A SIGN TO BE PLACED AT THE ENTRANCE OF THE POOL ENCLOSURE, WHICH READS SUBSTANTIALLY AS FOLLOWS:
 "WARNING - NO LIFEGUARD ON DUTY"
 "CHILDREN UNDER THE AGE OF 16 SHOULD NOT USE SWIMMING POOL WITHOUT AN ADULT IN ATTENDANCE"
 "ADULTS SHOULD NOT SWIM ALONE"
 "ALL PERSONS ARE REQUIRED TO TAKE A CLEANSING SHOWER BATH BEFORE ENTERING THE POOL."
 "NO PERSON WITH A COMMUNICABLE DISEASE IS ALLOWED TO USE THE POOL."

CONSULTANTS
**AQUATICS GROUP, a
 division of Weston &
 Sampson**
 85 DEVONSHIRE
 STREET, THIRD FLOOR
 BOSTON, MA 02109

REVISIONS	
ADDENDUM 1	09/30/2014

PROJECT NUMBER
 02014.04

**NEW BEDFORD
 HIGH SCHOOL
 INDOOR SWIMMING
 POOL UPGRADES**

230 Hathaway Blvd, New
 Bedford, MA, US, 02740

DRAWING TITLE
**POOL DECK PLAN
 AND GENERAL
 NOTES**

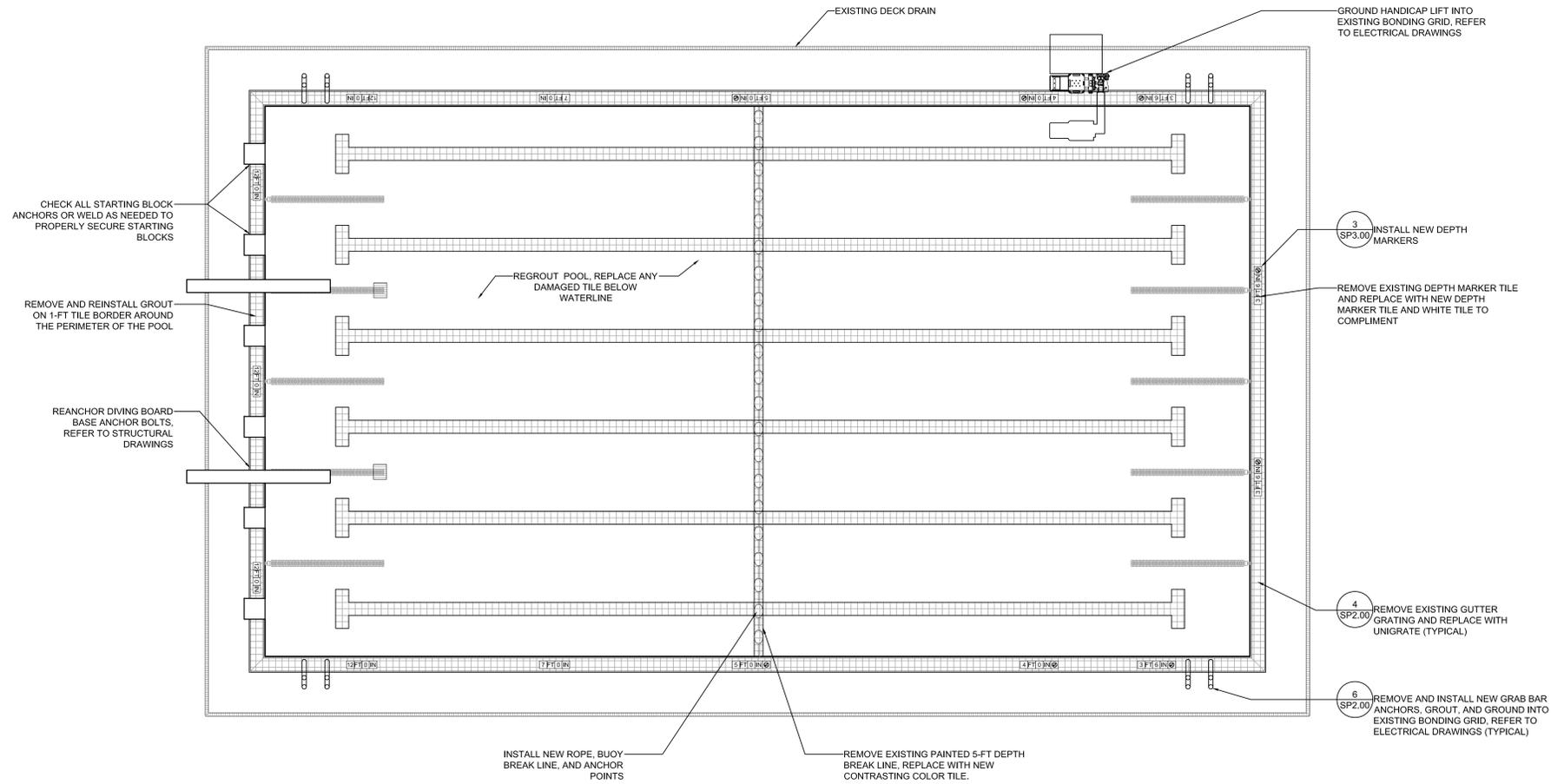


47 No. Second Street
 New Bedford, MA 02740
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 info@mvgarchitects.com E

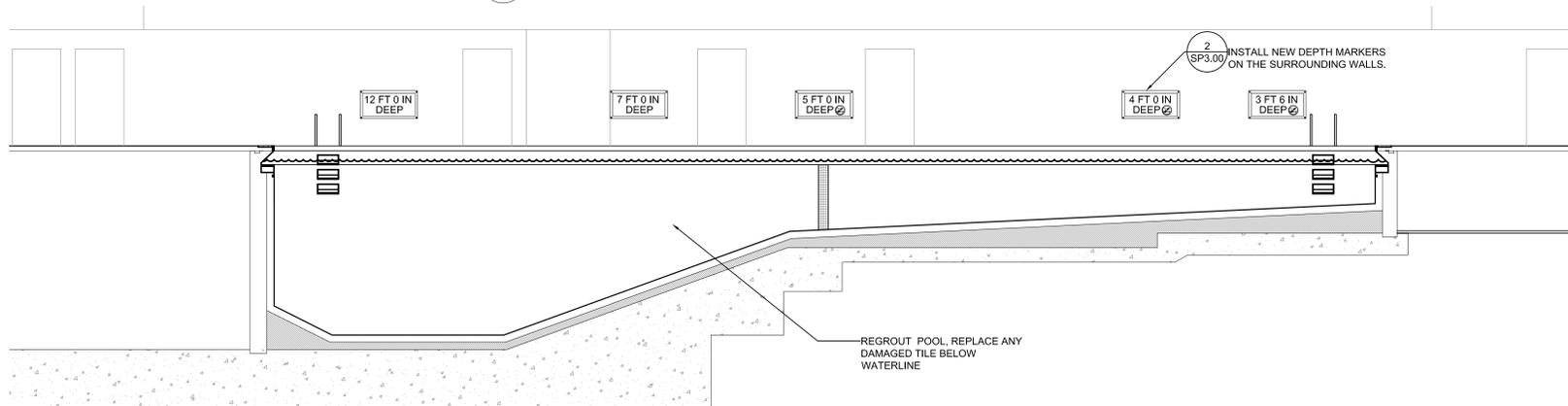
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DRAWN BY	MPM, ACG
CHECKED	KDK
DATE	09/30/14

DRAWING NUMBER

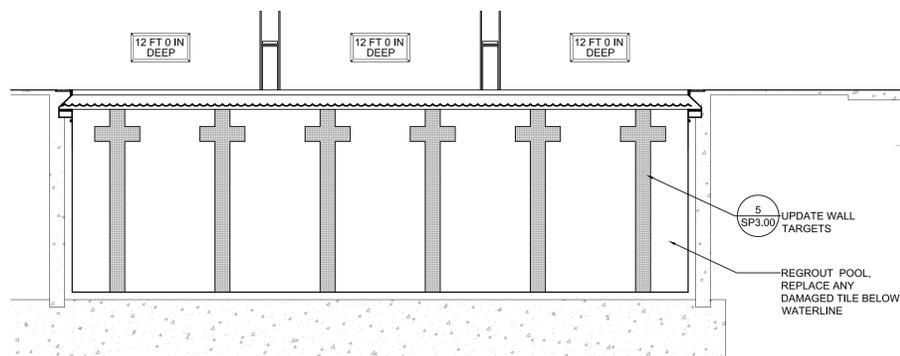
SP1.00



1 POOL PLAN VIEW PROPOSED WORK
SCALE: N.T.S.

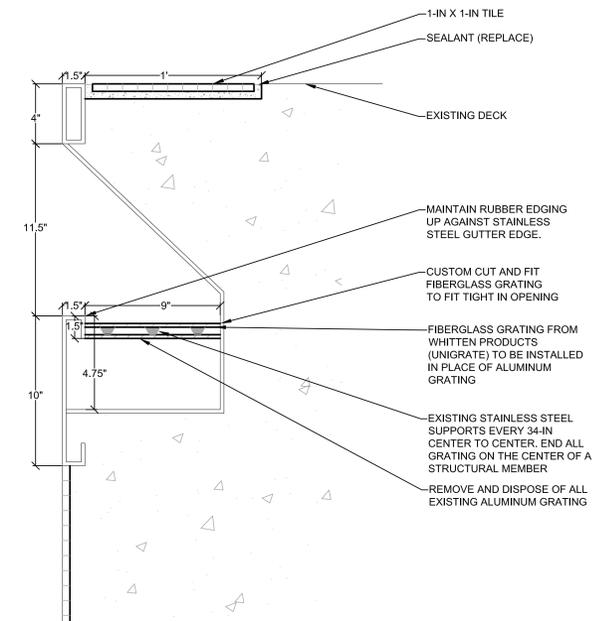


2 SECTION 1
SCALE: N.T.S.

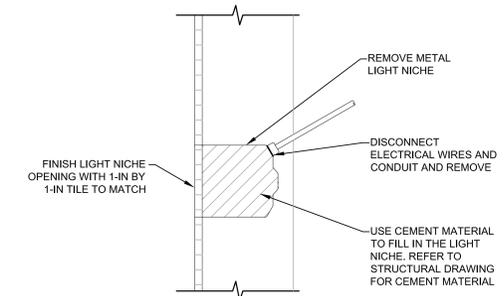


3 SECTION 2
SCALE: N.T.S.

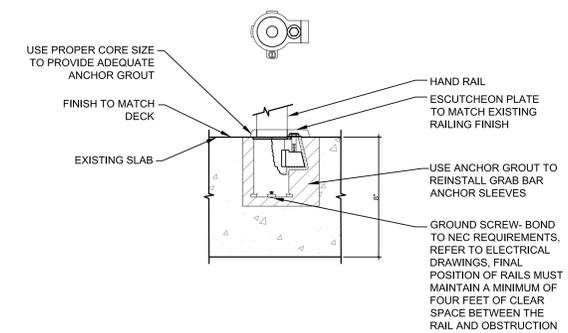
NOTES:
1. REMOVE EXISTING PAINTED 12-FT DEPTH BREAK LINE, REPLACE WITH WHITE TILE.
2. REMOVE SPRAY PAINTED "NO DIVING" LETTER AND SYMBOLS FROM THE CONCRETE POOL DECK



4 GRATE & GUTTER DETAIL
SCALE: N.T.S.



5 LIGHT NICHE ABANDONMENT DETAIL
SCALE: N.T.S.



6 GRAB RAIL ANCHORS REINSTALLMENT
SCALE: N.T.S.

CONSULTANTS
AQUATICS GROUP, a division of Weston & Sampson
85 DEVONSHIRE STREET, THIRD FLOOR
BOSTON, MA 02109

REVISIONS
ADDENDUM 1 09/30/2014

PROJECT NUMBER
02014.04

NEW BEDFORD HIGH SCHOOL
INDOOR SWIMMING POOL UPGRADES

230 Hathaway Blvd, New Bedford, MA, US, 02740

DRAWING TITLE
POOL PLAN, SECTIONS, AND DETAILS



47 No. Second Street
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508 991 7500 T
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info@mvgarchitects.com E

SCALE N.T.S.
DRAWN BY MPM, ACG
CHECKED KDK
DATE 09/30/14

DRAWING NUMBER

SP2.00

POOL RULES SIGN PER 105 CMR 435.22

1. NO PERSON HAVING A COMMUNICABLE DISEASE SHALL BE EMPLOYED OR WORK AT A SWIMMING POOL.
2. THE FOLLOWING REGULATIONS SHALL BE ENFORCED BY THE OPERATOR.
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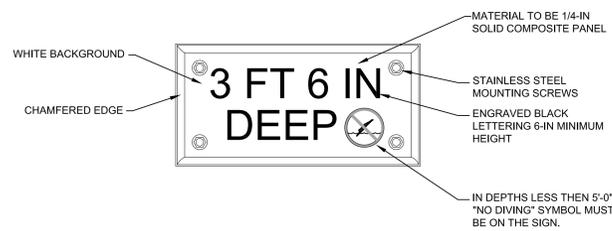
STAINLESS STEEL MOUNTING SCREWS

MATERIAL TO BE 1/4-IN SOLID COMPOSITE PANEL

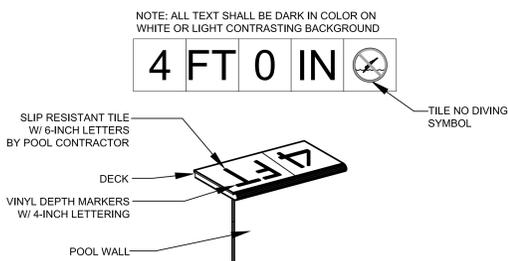
LETTERS SHALL BE A MINIMUM OF 1-IN

CHAMFERED EDGE

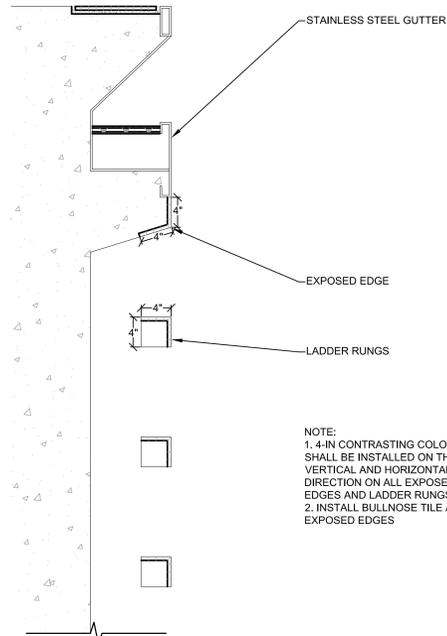
1 HEALTH AND SAFETY SIGN DETAIL
SCALE: N.T.S.



2 DEPTH MARKER SIGN DETAIL
SCALE: N.T.S.

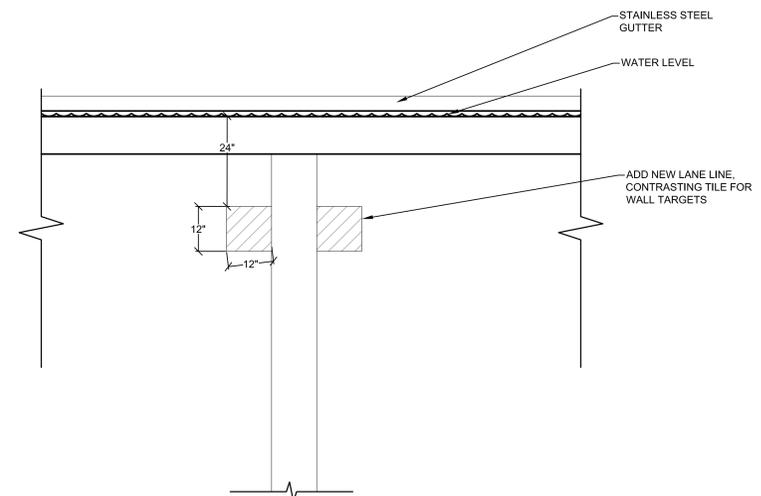


3 DEPTH MARKER
SCALE: N.T.S.



NOTE:
1. 4-IN CONTRASTING COLOR SHALL BE INSTALLED ON THE VERTICAL AND HORIZONTAL DIRECTION ON ALL EXPOSED EDGES AND LADDER RUNGS.
2. INSTALL BULLNOSE TILE AT ALL EXPOSED EDGES

4 ACCENT COLOR ON STAIRS
SCALE: N.T.S.



5 WALL TARGETS
SCALE: N.T.S.

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POOL DETAILS



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SCALE	N.T.S.
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