FRANCHISE AGREEMENT BETWEEN THE CITY OF ALEXANDRIA, VIRGINIA, AND THE TALL SHIP PROVIDENCE FOUNDATION

THIS FRANCHISE AGREEMENT is made this _____ day of November 2022, by the City of Alexandria, a municipal corporation of Virginia ("City"), and the Tall Ship Providence Foundation, a non-profit, tax-exempt organization ("Franchisee" or "Tall Ship Providence").

WHEREAS, in or about November 12, 2022 City Council of the Alexandria Virginia, approved a franchise agreement permitting the Tall Ship Providence a reproduction historic tall ship ("Vessel") that will provide a living history museum, public cruises, private charters and retail items, to dock at the riparian area adjacent to the Waterfront Park bulkhead (1A Prince St.) in the City of Alexandria, Virginia consistent with Special Use Permit #2021-0001 (Exhibit A); and

WHEREAS, in or about June 25, 2019, City Council after adopting Franchise Ordinance 5235, pursuant to §15.2-2100 et. seq. of the Code of Virginia (1950) as amended, the City solicited bids to moor an historic or reproduction historic tall ship for sightseeing tours, private charters, private events, educational programming and to allow design construction upgrades of the City's infrastructure. The Tall Ship Providence Foundation was the responsive party, and

WHEREAS, the City is willing to permit Franchisee to use the Waterfront Park bulkhead and/or City Marina G/H Pier T-Head ("Berth") for docking purposes and for visitor and service access in accordance with the terms and conditions set forth below;

NOW, THEREFORE, in consideration of the premises, the mutual promises contained herein, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

1. Representations. By executing this agreement, the Franchisee warrants that it is the legal

- owner and operator of the Vessel described in paragraph 14 below (the "Vessel") and is authorized to enter into this Franchise Agreement.
- 2. Applicability of City, State and Federal Law. This Franchise Agreement is subject to title 6, chapter 3 of the Alexandria City Code and any and all applicable provisions of federal, state, and local law. Franchisee agrees to comply with the criminal, fire, health and safety laws of the City of Alexandria and the Commonwealth of Virginia pertaining to the operation of the Vessel. Franchisee shall permit officers and employees of the City of Alexandria charged with the enforcement of such laws to board and inspect the Vessel for the purpose of enforcing such laws. Franchisee hereby agrees to permit periodic inspection of the Vessel by code enforcement inspectors of the City of Alexandria, and to remedy to the extent practicable any and all deficiencies and unsafe conditions found by such inspectors.
- 3. Rules and Regulations. Franchisee shall comply with all applicable rules and regulations of the City of Alexandria, including the conditions as approved or amended in Special Use Permit #2021-0001 (Exhibit A) and which are incorporated by reference into this Agreement as if fully set forth herein. The Franchisee shall also comply with any rules and regulations of the City or of the Alexandria Marina which are adopted subsequent to the execution of this Agreement unless such rules are manifestly unreasonable in their application to Franchisee.
- 4. <u>Insurance</u>. Franchisee shall certify to the satisfaction of the City that the Franchisee and the Vessel are covered by:
 - a. liability insurance in an amount not less than \$1,000,000 per person per occurrence and \$3,000,000 in the aggregate per occurrence which insures the

Franchisee against claims of personal injury and property damage arising from the negligent use or operation of the Vessel by the Franchisee or Franchisee's agents and employees;

- b. insurance in the amount of not less than \$1,000,000 per occurrence which insures

 Franchisee, regardless of fault or negligence by Franchisee or any agent or

 employee of Franchisee, against claims of damage to property of the City of

 Alexandria caused by (i) the use or operation of the Vessel by Franchisee or any

 agent or employee of Franchisee, and (ii) any casualty or event involving the

 Vessel, or any agent, employee, invitee or guest of Franchisee; and
- c. wreck removal insurance to cover the cost of removing the Vessel if it should sink or become awash, and the City shall be named beneficiary of such policy.

Franchisee agrees to maintain such insurance coverage throughout the term of this Franchise Agreement, and to furnish evidence to the City of such coverage prior to the effective date, and throughout the term, of this Franchise Agreement. In addition, City shall be named on the liability insurance policy required by subsection (a) as an additional insured.

5. <u>Indemnification</u>. Subject to the dollar limitations set out in subsection 4(a), and apart from and in addition to any insurance coverage, Franchisee agrees to indemnify and hold harmless the City and all of its officers, employees and agents from and against all suits, actions, causes of action, damages, claims, liability and expenses (including court costs and attorneys' fees), and against any losses, resulting from or arising out of any bodily injury or property damage caused, in whole or in part, by any act or omission of the Franchisee or any of its employees, agents, invitees, Franchisees or guests in the course

- of operating, maintaining or using the Vessel while located within or approaching or departing the Alexandria Marina, except to the extent such injury or damage is caused by the negligence of the City or its officers or employees.
- 6. Waiver of City's Liability. By executing this Franchise Agreement, Franchisee expressly acknowledges and agrees that the City and its officers and employees shall not be liable to Franchisee or to any of its employees, agents, invitees, Franchisees or guests for any bodily injury or property damage sustained by any of them while on Franchisee's Vessel or while at or on the Alexandria Marina, or for any property damage to Franchisee's Vessel sustained while the Vessel is located within or is approaching or departing the Marina, except to the extent such injury or damage is caused by the negligence of the City or its officers or employees.

7. Grant and Term of Franchise.

- a. In exchange for the consideration described herein City grants permission to Franchisee to dock the Vessel at the Waterfront Park bulkhead (1A Prince St.) and/or the City Marina G/H Pier T-Head.
- b. The term of this franchise shall be ten (10) years, from January 1, 2023, through December 31, 2032.
- 8. Renewal. Provided Franchisee is not in default of its obligations of performance under this Agreement at the end of the initial ten (10) year term, Franchisee shall have the right to negotiate this Agreement for an additional ten (10) year term exercised by Franchisee by written notice to City within six (6) months immediately preceding the expiration of the original term of this Agreement. The City Manager for the City will analyze and review use of the docking by Franchisee under terms of this Agreement to determine if

additional or modifications to the terms of this Agreement are necessary including but not limited recalculating the annual fee. Notwithstanding this option for renewal, the City Manager shall have the right to terminate this Agreement at the end of any term if the City Manager determines the lease agreement is no longer in the best interest of the public. Franchisee shall have the right to negotiate up to three (3) individual ten (10) year terms. The annual rent for each 10 year period will increase 3% annually from the prior year.

- 9. <u>Franchise Fee</u>. Franchisee shall pay to City an annual fee for the Franchise Rights to use the Berth.
 - a. Franchisee shall pay to the City a guaranteed annual fee for the Franchise granted hereunder. The fee shall be based on the terms, conditions, insurance, and financial obligations hereby incorporated into the Franchise Agreement as if fully set forth herein. The Guaranteed Annual Fee the use of the Berth for the first ten (10) years are shown in the table below.

Term	Annual	Monthly Payment
	Payment	
Year One:	\$15,914	\$1,326
Year Two:	\$16,391	\$1,366
Year Three:	\$16,883	\$1,407
Year Four:	\$17,389	\$1,449
Year Five:	\$17,911	\$1,493
Year Six:	\$18,448	\$1,537
Year Seven:	\$19,002	\$1,583
Year Eight:	\$19,572	\$1.631
Year Nine:	\$20,159	\$1,680
Year Ten:	\$20,764	\$1,730

For each lease year, the City shall receive, in addition to the guaranteed annual payments, an Additional Fee equal to five percent (2.5%) of Net Revenue in excess of \$1,000,000.

Net Revenue is defined as the aggregate dollar amount of all business resulting from the operations as outlined in 17.d. including all sales of food, beverages and merchandise and all charges for services performed in, upon or resulting from, visitors boarding the Vessel at the Berth. Within thirty (60) days after each Franchise year (February 28), Franchisee shall submit to the City a report of Net Revenue for the Franchise year and the payment of the Additional Fee.

b. Franchisee shall continue to pay to the City a guaranteed annual fee of \$5,493.36 for repayment of suspended License fee during COVID-19 from January 1, 2023 through December 31, 2024. The COVID-19 repayment fee will be paid in twelve (12) monthly payments on the first day of each month with the first fee due on January 1, 2023.

Term	Annual	Monthly
	Payment	Payment
Calendar Year 2023:	\$5,493.36	\$457.78
	\$5,493.36	\$457.78

- c. Licensee shall not be entitled to any reduction in fees in the event any Berth is not occupied by a Licensed Vessel or Licensee does not conduct Services from the Alexandria City Marina.
- d. If Licensee fails to pay any installment in full within ten (10) calendar days of the installment's due date, Licensee shall be liable for a penalty, equal to ten percent (10%) of said installment, plus interest, based upon the amount unpaid and a rate of ten percent (10%) per annum (compounded annually), from the due date. Any such penalty and interest shall be due at the next installment due date.
- e. *Annual Fee*. The annual fee will be paid in twelve (12) monthly payments on the first day of each month with the first fee due on January 1, 2023.
- f. *Payment Mailing Address*. All payments shall be sent to the City at the following address:

City of Alexandria/RPCA Jack Browand, Deputy Director 1108 Jefferson Street Alexandria VA 2314 Check tendered in payment of the monthly fee shall be made payable to the "City of Alexandria."

- g. *Late payment*: In the event any payment due to the City hereunder is delayed by more than thirty (30) days business days, such payment shall be deemed to increase by ten percent (10%) of the payment due. Interest on the unpaid amount shall accrue at the rate of 2.5% per month from the due date until paid.
- 10. <u>Assignment</u>. This Agreement granting a franchise may not be assigned by the Franchisee without the prior written consent of City, which consent may or may not be granted at the City's discretion.
- 11. <u>Termination</u>. In the event that Franchisee violates any of the terms of this Agreement, Franchisee shall be considered in default. If such default continues for thirty (30) days after Franchisee has received written notice of the default, then this Agreement may be terminated, effective immediately, by City. Notwithstanding the above, City shall have the right to terminate this Agreement, effective immediately, in the event that Franchisee shall be adjudicated as bankrupt, or if a receiver is appointed in a legal proceeding of any kind to take possession of the assets of Franchisee, or if any creditor of Franchisee shall seize, take possession of or foreclose upon the Vessel. City shall also have the right to terminate this Agreement, effective immediately, if Franchisee fails to maintain all of the types of insurance required by paragraph 4 of this Agreement.
- 12. <u>Removal</u>. If this Agreement is terminated, Franchisee shall immediately remove the Vessel from and cease utilizing the Berth and any alternate docking facility owned by City. If it becomes necessary for City to remove or cause the removal of the Vessel through any legal proceeding, or otherwise, then the City shall be entitled to recover all costs incurred in conjunction with the removal and with such proceeding, including

- attorney's fees, from the Franchisee and any successor in interest in ownership or possession of the Vessel, and such liability shall be joint and several.
- 13. <u>Governing Law</u>. This Agreement shall be governed by and construed in accordance with the laws of the Commonwealth of Virginia.
- 14. <u>Description</u>. The Vessel is a replica tall ship with a deck 62 feet in length, an overall length of 110 feet (including bowsprit/jib-boom), and 22 feet in width. The Vessel mast has a height of 93 feet and 6 inches.
- 15. <u>Use of Vessel</u>. The Vessel shall be used solely and exclusively as a living history museum and tourist attraction open to the public and may schedule public cruises and private charters. Franchisee may operate a Tall Ship Providence Foundation Gift Shop consistent with 17 m., (there is no 17 m?) not both, in conjunction with the docking. All activity and business operations are limited to conditions consistent with conditions as approved or amended in Special Use Permit #2021-0001 (Exhibit A) unless permission is provided by the City in writing. The Franchisee is not permitted to conduct any activity or business operation from the shore consistent with conditions as approved or amended in Special Use Permit #2021-0001 (Exhibit A).
- 16. Fuel. The Vessel shall not take on gasoline or other fuel when it is docked at the Berth.
- 17. Provisions, Operation and Appearance.
 - a. Franchisee agrees to provision the Vessel at such time and in such manner as to minimize the adverse impact upon businesses, their invitees and guests, and members of the general public on or adjacent to the Berth. Franchisee shall require all vendors and service personnel who supply goods or render services to the Vessel, or who engage in any activity related to the use or maintenance of the

Vessel, use Prince St. or the loading zone in Thompson's Alley.

- Franchisee agrees that public access to Waterfront Park and the Alexandria Marina G/H Pier shall be open to the public consistent with the posted hours of operations.
- ii. The Franchisee shall not interfere with the use of and access to Waterfront Park and all designated slips on the City Marina G/H Pier.
- iii. Franchisee shall not interfere with and must allow for unimpeded access to the City of Alexandria's Fire Boat while berthing at the City Marina G/H Pier. The City retains the right to modify Franchisee's business operations to ensure full access to the Fire Boat.
- b. At all times, Franchisee shall maintain the Vessel in such a manner as to keep it neat and orderly in appearance, with its operating systems functioning in good working order.
- c. Franchisee shall not engage in any activity which results in visual, excessive noise, foul odors, the accumulation of litter or debris on the shore areas adjacent to the Berth, including all City parks or in the waters adjacent to the Berth, or such other conditions which the City may, in its sole discretion, deem inconsistent with the use and enjoyment of the Berth. No music, amplified sound, machine noise or any other noise from the Vessel shall be audible at the closest City street at any time.
- d. Franchisee is permitted to conduct public operations as follows:
 - i. Public tours from 9 a.m. to 8 p.m. Monday through Friday, and from 11 a.m. to 5 p.m. Saturday, Sunday & Holidays;
 - ii. Private craft beer cruise from 3:30 p.m. to 9 p.m. on Friday, Saturday &

- Sunday;
- iii. Private pirate and/or other themed cruises from 8:30 a.m. to 10:30 a.m. on Saturday & Sunday and pirate, afternoon or sunset cruises from 3:30 p.m. to 9 p.m. daily;
- iv. Private charters from 5 p.m. to 12 a.m. (midnight) daily; and
- v. Lectures, classes and other educational activities from 8 a.m. to 11 a.m. on Saturday & Sunday
- vi. Special events on any day
- e. Franchisee shall not place any signs, advertisements or notices of any nature, on any part of the bulkhead, without City's prior written consent and without such sign, advertisement or notice complying with all applicable laws, including but not limited to the City of Alexandria Zoning Ordinance, which shall be deemed applicable to the Vessel for the purposes of this paragraph.
- f. No more than 49 persons plus five crew which is permitted by the Coast Guard, may occupy the Vessel at any one time.
- g. Franchisee shall undergo a crime prevention survey by the Alexandria Police

 Department within 15 days of the date that this Agreement is finally executed, or

 by such other date as may be mutually agreed upon by the parties to this

 Agreement, and Franchisee shall implement all crime prevention procedures and

 devices recommended by the Alexandria Police Department within 15 business

 days of receiving the results of the survey.
- h. If the Vessel is closed to the public for more than 30 consecutive days, Franchisee shall notify City in writing of the reason for the closure and the anticipated date when the Vessel will reopen. City may require removal of the Vessel from the Berth if the Vessel is closed to the public for more than 30 consecutive days. In

the event that the Franchisee intends to move the Vessel from the Berth for a period of more than 30 consecutive days, Franchise shall so notify the City in writing. The foregoing removal will not in any way relive Franchisee of its obligation to pay the Franchise Fee.

- i. While using the Waterfront Park Bulkhead, the Franchisee may install a docking facility consistent with Special Use Permit #2021-0001 (Exhibit A) and any subsequent amendments or interim actions associated with Special Use Permit #2021-0001 (Exhibit A).
- j. While using the City Marina G/H Pier T-Head, the Franchisee may operate consistent with this License.
- k. Per Special Use Permit #2021-0001 (Exhibit A), TSPF shall provide a perpetual public access easement for the portion of the pier marked as public on the plans submitted to the City, during public operation hours, hours as determined in paragraph 17.d. of this agreement.

18. <u>Utilities and Services Provided</u>.

- a. While using the Waterfront Park Bulkhead, Franchisee is responsible for providing all utilities and services in support of its business operations consistent with Special Use Permit #2021-0001 (Exhibit A).
- b. While using the City Marina G/H Pier, the City is responsible for providing all utilities and services in support of its business operations consistent with the License.
- 19. <u>Refuse</u>. Franchisee shall arrange and pay for the prompt and continuous collection and removal of all litter, debris and refuse generated by the Vessel and of its employees,

agents, invitees, Franchisees or guests If Franchisee fails to fulfill its obligations under this paragraph, as determined by City in its sole discretion, City may arrange and pay for such collection and removal of litter, debris and refuse. Franchisee shall, upon demand by City, reimburse City for expenses incurred for such collection of refuse within 30 days of Franchisee's receipt of a billing statement itemizing such expenses and issued by City.

20. <u>Parking</u>. Franchisee shall take all reasonable efforts to advise passengers of off-street parking facilities to avoid on-street parking in the City, including, without limitation, providing passengers, visitors and their agents with maps and directions to off-street parking facilities and shall provide such maps and directions available at Franchisee's office, website and included in any and all other promotional materials.

21. Waterfront Small Area Plan Implementation.

a. At such time as the City implements the proposed waterfront and flood mitigation improvements to the area approved in Special Use Permit #2021-0001 (Exhibit A), TSPF shall remove and relocate the Tall Ship Providence, floating pier, gangway, cottages, above or below grade utility infrastructure and any other associated structures to an interim location to be determined in consultation with the City. The relocation of the floating pier, gangway, cottages and any other associated structures shall be for the duration of related construction activities to the satisfaction of the City.

The timing associated with the removal and relocation of the floating pier, gangway, cottages and any other associated structures shall be mutually agreed in writing between the City and TSPF. The City will use its best efforts to provide the applicant with updates on the planning and the design of the flood mitigation

improvements to be constructed on the adjacent City-owned property. If practicable given the circumstances the City will give Franchisee 12 months written notice of the City's intention to remove or relocate the floating pier, gangway, cottages and other associated structures.

TSPF shall allow the City access to provide maintenance and enable the City to conduct any necessary preparations in the area approved in Special Use Permit ##2021-0001to facilitate design and engineering activities in the implementation of proposed waterfront and flood mitigation improvements. TSPF understands that maintenance and/or potential design and engineering activities may result in temporary or long-term disruption of TSPF operations, including utility connections, and/or the temporary relocation of the Tall Ship Providence, floating pier, gangway, cottages and any other associated structures. It shall be the responsibility of TSPF to coordinate temporary utility service as needed and for the relocation, either within or outside the City's jurisdiction during these time periods at no cost or liability to the City. The timing of interim disruptions to operations, including utility connections, and the relocation of the Tall Ship Providence and/or the floating pier, gangway, cottages and any other associated structures shall be mutually agreed in writing between the City and TSPF. The City will use its best efforts to provide the applicant with updates on the planning and the design of the flood mitigation improvements to be constructed on the adjacent City-owned property.

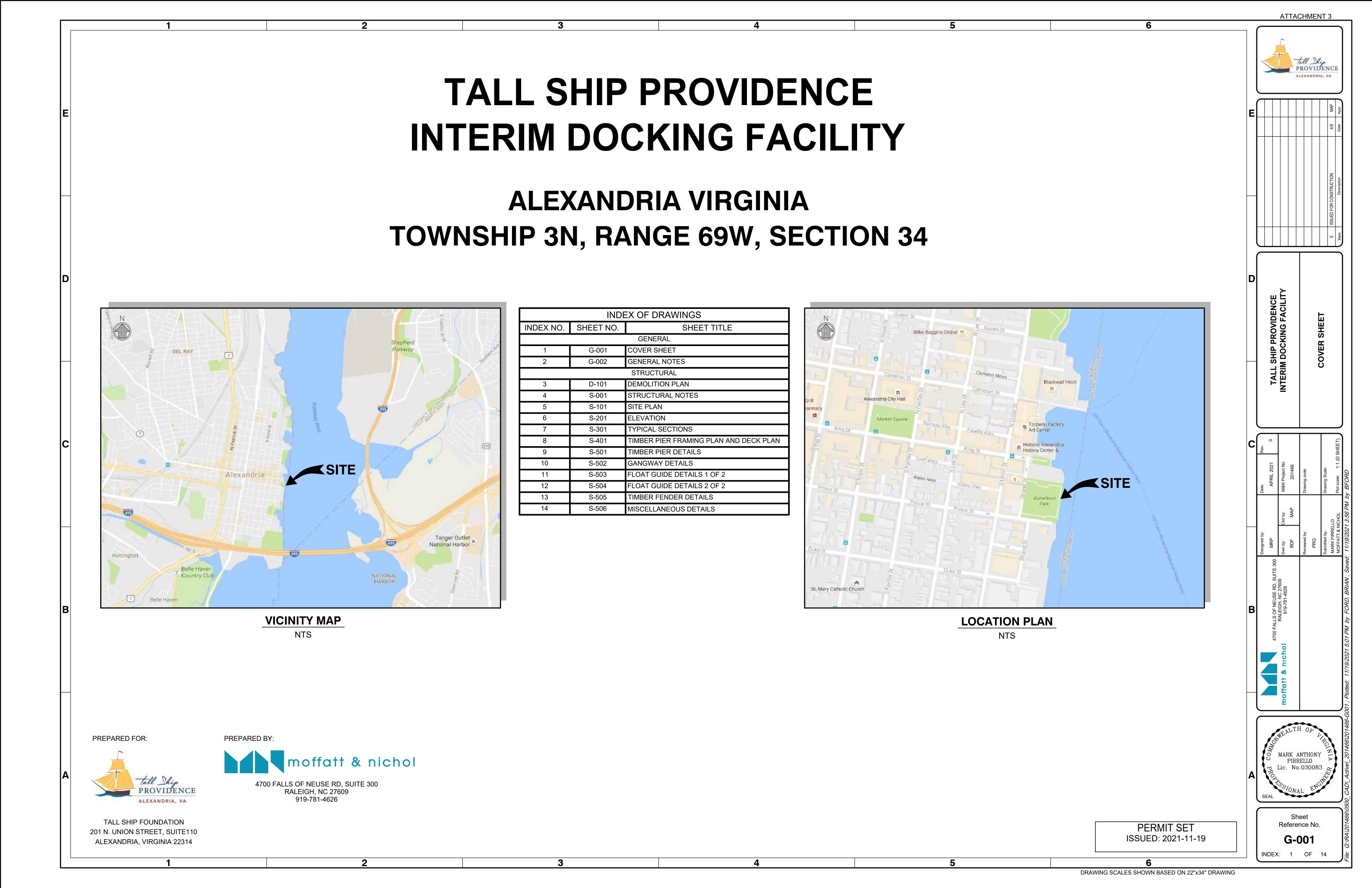
ATTACHMENTS

- 1. Exhibit A Special Use Permit #2021-0001
- 2. City Council Approved Franchise Agreement
- 3. Approved Grading Plan
- 4. Approved Building Permits

SIGNATURES FOLLOW

IN WITNESS WHEREOF, the parties hereto have executed this Agreement.

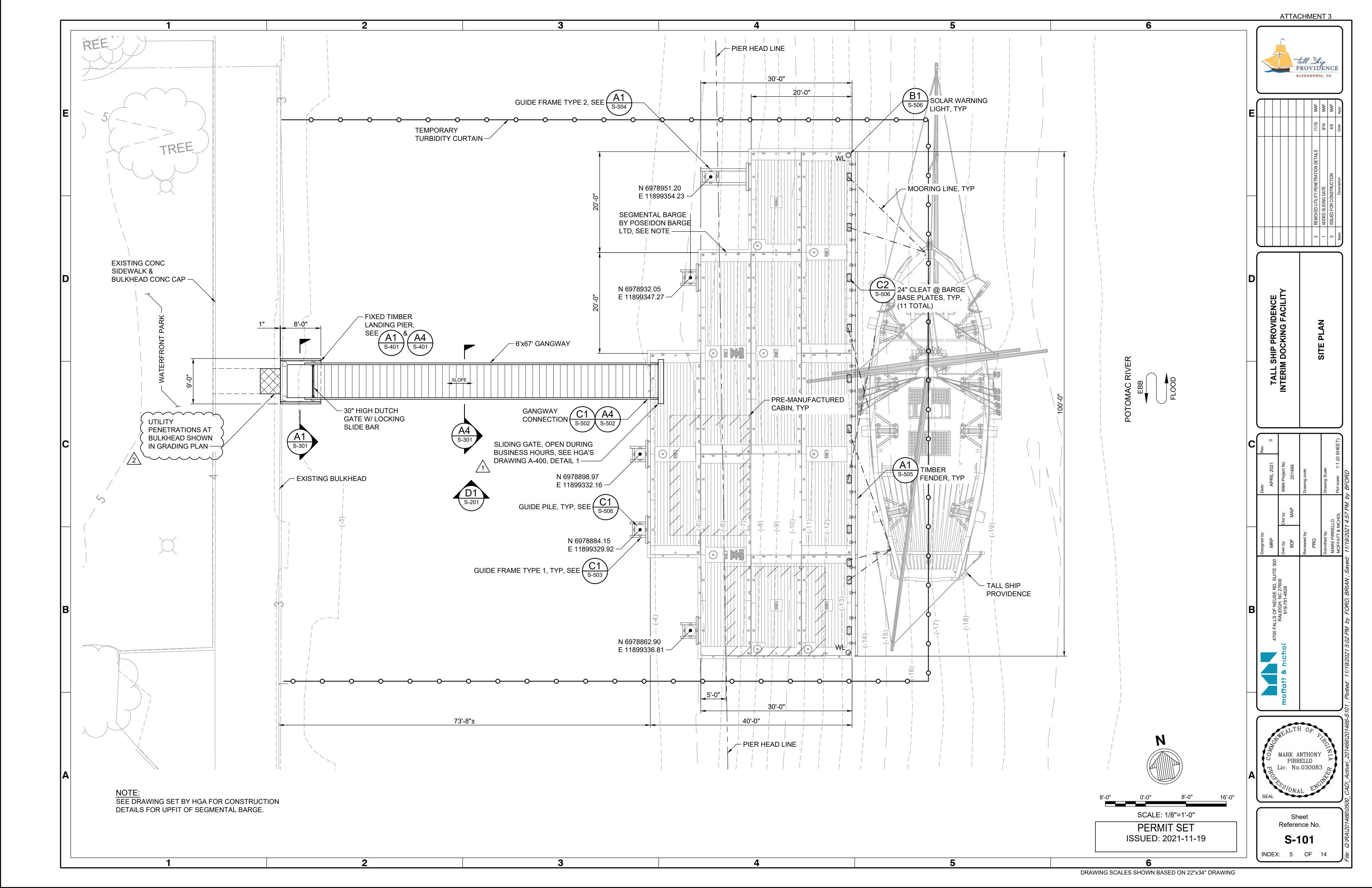
CITY OF ALEXANDRIA, a municipal corporation of Virginia	FOUNDATION
By: James P. Parajon City Manager	By: Clair S. Sassin President & CEO
Date:	Date:
APPROVED AS TO FORM:	
Karen Snow Senior Assistant City Attorney	

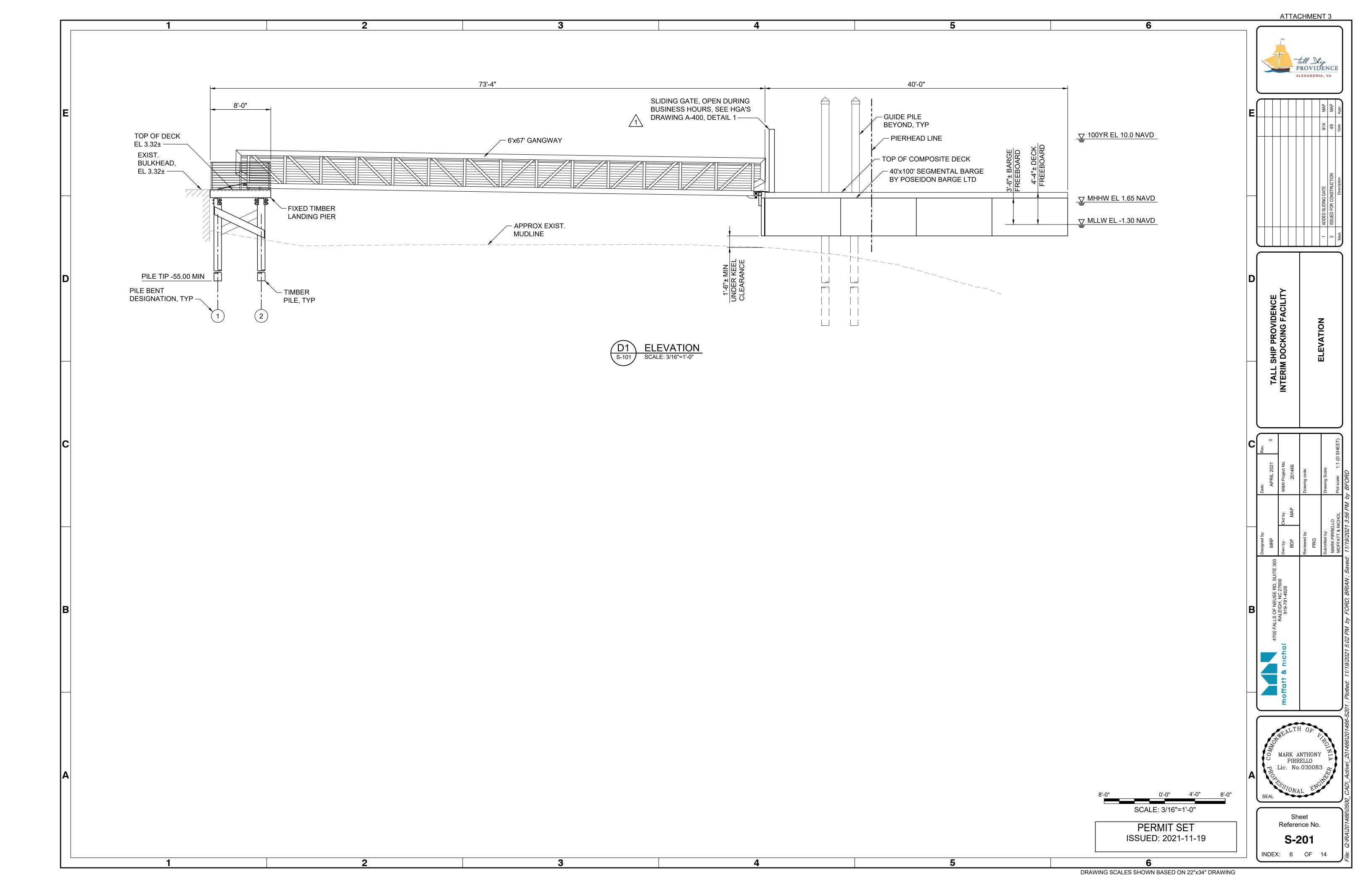


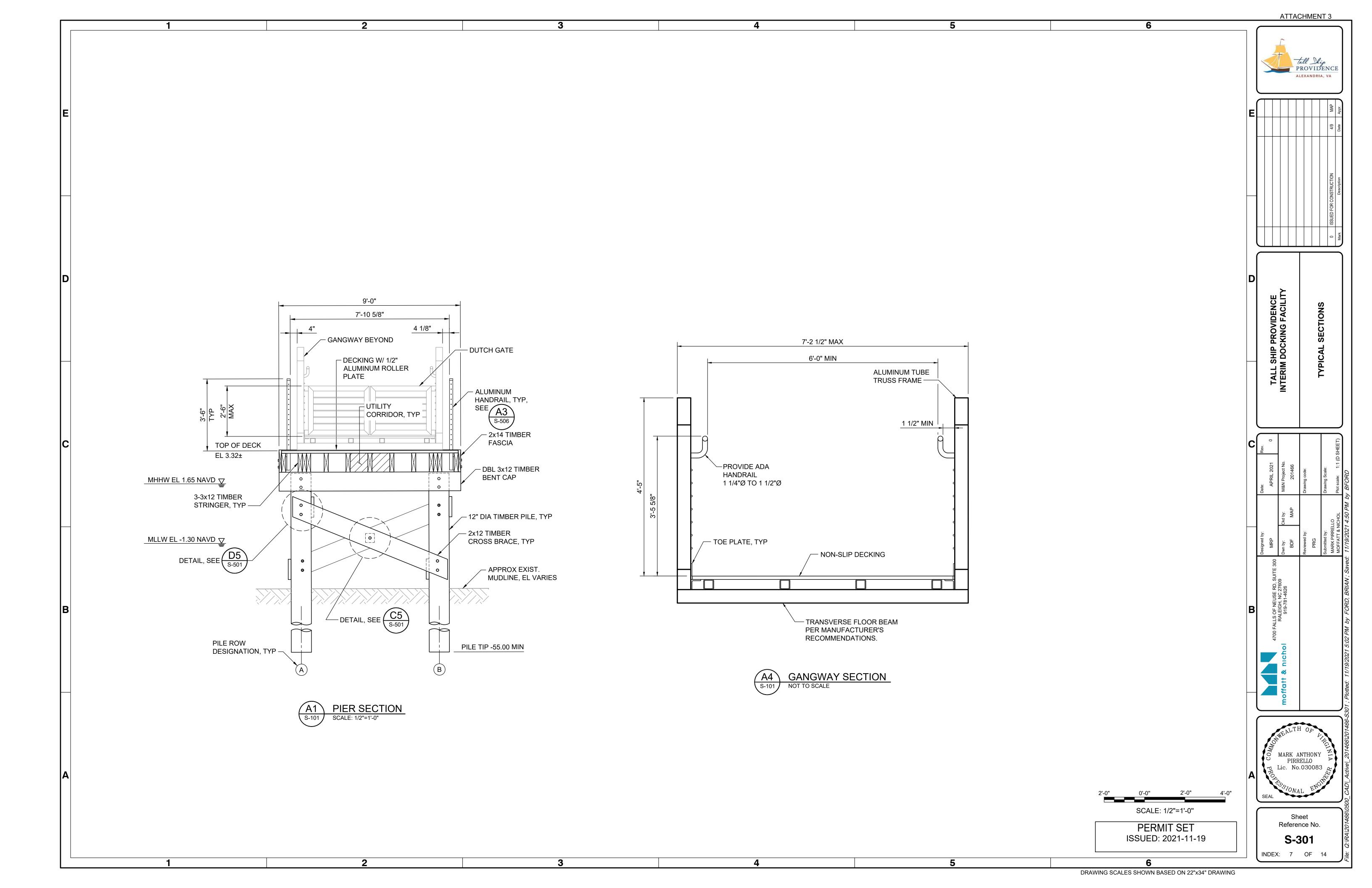
ATTACHMENT 3 PROJECT NARRATIVE: **GENERAL NOTES:** tall Ship 1. GENERAL NOTES ARE NOT INTENDED TO REPLACE THE CONTRACT DOCUMENTS. SEE CONTRACT THE PROJECT CONSISTS OF THE CONSTRUCTION OF AN 80 SQUARE FOOT PILE SUPPORTED PROVIDENCE DOCUMENTS FOR REQUIREMENTS IN ADDITION TO THESE GENERAL NOTES. THE CONTRACT DOCUMENTS TIMBER LANDING. A 6-FOOT X 67-FOOT LONG ALUMINUM ARTICULATING GANGWAY. AND A FLOATING ALEXANDRIA, VA BARGE PLATFORM THAT SUPPORTS MOORING OF THE 64-FOOT LONG TALL SHIP PROVIDENCE AND SHALL CONSIST OF THE COMPLETE PROJECT SPECIFICATIONS AND WORKING DRAWINGS INCLUDING BUT NOT LIMITED TO GENERAL PROVISIONS, SPECIAL PROVISIONS, DIVISION 1 REQUIREMENTS, TECHNICAL SUPPORT FACILITIES FOR THE OPERATION OF THE TALL SHIP PROVIDENCE AS A MUSEUM AND SPECIFICATIONS, AND ANY RELEVANT ADDENDA ITEMS. ALL WORK SHALL CONFORM TO THE TOURIST DESTINATION. THE FLOATING BARGE PLATFORM IS ANCHORED BY FIVE (5) 80-FOOT LONG REQUIREMENTS OF THE CONTRACT DOCUMENTS. 24-INCH DIAMETER STEEL PIPE PILES THAT LIE LANDWARD OF THE PIERHEAD LINE. THE PROJECT IS LOCATED IN WATERFRONT PARK AND EXTENDS APPROXIMATELY 115 FEET OFFSHORE OF THE 2. THE WORKING DRAWINGS ARE NOT NECESSARILY COMPLETE IN EVERY DETAIL. THE CONTRACTOR SHALL EXISTING BULKHEAD. PROVIDE ALL EQUIPMENT, MATERIAL, SERVICES, LABOR, ETC FOR A COMPLETE INSTALLATION INCLUDING WORK REASONABLY INFERRED FROM THE CONTRACT DOCUMENTS AS BEING NECESSARY TO PRODUCE THE INTENDED RESULTS. WHETHER SHOWN OR NOT ON THE DRAWINGS. **EXISTING CONDITIONS SURVEY NOTES:** THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE STARTING WORK. 1. HORIZONTAL DATUM: NORTH AMERICAN HORIZONTAL DATUM OF 1983 DO NOT SCALE PROJECT DRAWINGS. REPORT ANY DISCREPANCIES IN THE DRAWINGS AND/OR VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 SPECIFICATIONS TO THE ENGINEER FOR CLARIFICATIONS OR ADJUSTMENTS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL NOT BEGIN DEMOLITION/CONSTRUCTION IN ANY SUCH AFFECTED AREA 2. TIDAL DATUM RELATIONSHIP: UNTIL THE DISCREPANCY HAS BEEN RESOLVED. MEAN HIGHER HIGH WATER (HIGH TIDE LINE) (MHHW). 1.65 FEET 4. SHOULD THERE BE A CONFLICT BETWEEN THESE GENERAL NOTES. WORKING DRAWINGS. AND/OR MEAN HIGH WATER (MHW)......1.43 FEET SPECIFICATIONS, THE MOST RESTRICTIVE INTERPRETATION SHALL PREVAIL. THE CONTRACTOR SHALL BE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)............0.00 FEET RESPONSIBLE FOR OBTAINING FROM THE ENGINEER ANY CLARIFICATION OR INTERPRETATION OF THE GENERAL NOTES, WORKING DRAWINGS, AND/OR SPECIFICATIONS IN WRITING AND IN ADVANCE OF THE MEAN LOWER LOW WATER (MLLW).....-1.30 FEET BEGINNING OF DEMOLITION/CONSTRUCTION. NUMERICAL DIMENSIONS AND ELEVATIONS SHOWN SHALL SUPERCEDE ANY DISCREPANCY IN THE SCALING ON THE DRAWINGS. 3. THE BATHYMETRIC INFORMATION DEPICTED REPRESENTS THE SURVEY MADE BY GAHAGAN & BRYANT ASSOCIATES, INC. ON APRIL 13, 2016 AND CAN ONLY INDICATE THE GENERAL 5. ALL FEDERAL, STATE, AND LOCAL SAFETY REGULATIONS ARE TO BE STRICTLY FOLLOWED. METHODS OF CONDITIONS EXISTING ON SAID DATE. DEMOLITION/CONSTRUCTION AND INSTALLATION OF MATERIAL IS THE CONTRACTOR'S RESPONSIBILITY. 4. THE TOPOGRAPHIC INFORMATION DEPICTED REPRESENTS THE SURVEY MADE BY STANTEC ON 6. THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL MAY 25. 2016 AND CAN ONLY INDICATE THE GENERAL CONDITIONS EXISTING ON SAID DATE. TALL SHIP PROVIDENCE NTERIM DOCKING FACILIT PROTECTION STANDARDS, LAWS, AND REGULATIONS STANDARD NOTES: 7. THE CONTRACTOR SHALL KEEP ACCURATE RECORDS OF ANY CHANGES MADE TO THE DRAWINGS ON A SEPARATE WHITE SET OF PLANS PROVIDED BY THE ENGINEER. THESE ANNOTATED DRAWINGS SHALL BE TALL SHIP FOUNDATION OWNER: RETURNED TO THE ENGINEER PRIOR TO APPROVAL OF THE FINAL PAYMENT APPLICATION. 201 N. UNION STREET, SUITE 110 ALEXANDRIA, VA 22314 8. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL, ON A DAILY BASIS, REMOVE FROM THE SITE ANY DEBRIS RESULTING FROM DEMOLITION/CONSTRUCTION. DISPOSAL OF MATERIALS IS THE RESPONSIBILITY THE SITE IS LOCATED IN THE POTOMAC RIVER WATERSHED. OF THE CONTRACTOR. ALL MATERIALS TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED, AND SHALL BE DISPOSED OF AS SPECIFIED. ALL DEBRIS SHALL 3. THE SUBJECT PROPERTY LIES WITHIN A CITY OF ALEXANDRIA RESOURCE PROTECTION AREA. BE PROPERLY DISPOSED OF IN A PERMITTED LANDFILL. THE CONTRACTOR SHALL KEEP RECORDS OF ALL MATERIALS REMOVED FROM THE SITE, INCLUDING DESCRIPTION, QUANTITIES, AND DISPOSAL LOCATION. 4. ALL EROSION AND SEDIMENTATION CONTROL SHALL, IF REQUIRED, BE PLACED AND MAINTAINED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CITY OF 9. EXISTING CONSTRUCTION, INCLUDING UTILITIES AND OTHER MISCELLANEOUS ITEMS WHICH ARE TO ALEXANDRIA AND/OR VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH). REMAIN. SHALL REMAIN UNDISTURBED AND BE PROTECTED. UNLESS NOTED OTHERWISE. 3 DEMOLITION: 10. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING, AT HIS OWN EXPENSE, ANY AND ALL DAMAGES THAT MAY OCCUR OUTSIDE AND WITHIN THE LIMITS OF THIS PROJECT AS A RESULT OF 1. ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE MOST CURRENT DEMOLITION/CONSTRUCTION. APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS, INCLUDING BUT NOT LIMITED, TO ENVIRONMENTAL PROTECTION AGENCY (EPA), OCCUPATIONAL SAFETY AND 11. ALL AREAS DISTURBED DURING DEMOLITION/CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR HEALTH ADMINISTRATION (OSHA), VIRGINIA OCCUPATIONAL AND SAFETY HEALTH COMPLIANCE TO THEIR ORIGINAL CONDITION. AT NO EXPENSE TO THE OWNER, UNLESS OTHERWISE NOTED. PROGRAM (VOSH ENFORCEMENT), VIRGINIA OVERHEAD HIGH VOLTAGE LINE SAFETY ACT, DRAWING AREA NATIONAL EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAPS), AND 12. THE CONTRACTOR SHALL PROTECT ADJACENT STRUCTURES, UTILITIES, PEDESTRIANS, VEHICULAR, AND NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH (NIOSH). MARINE TRAFFIC FROM POTENTIAL DAMAGE DUE TO CONTRACTOR'S OPERATIONS. 2. PRIOR TO COMMENCING NEW WORK, ALL EXISTING ADJACENT AREAS WILL BE PROTECTED 13. THE CONTRACTOR SHALL PLACE CONSTRUCTION DEBRIS CONTROL DEVICES, TURBIDITY CURTAINS, FROM DAMAGE. ALL ADJACENT AREAS DAMAGED DURING DEMOLITION AND/OR BOOMS, TARPAULINS, FLOATS, STAGING, AND OTHER DEVICES AS NECESSARY TO PREVENT CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION CONSTRUCTION DEBRIS FROM ENTERING THE WATER AND AIRBORNE MATERIALS FROM LEAVING THE IMMEDIATE VICINITY OF THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF ANY **ARCHAEOLOGY NOTES:** MATERIALS DEPOSITED OUTSIDE THE WORK AREA. ALL WORK SHALL BE CONDUCTED IN ACCORDANCE 3 5 WITH USACE PERMITS. 1. CALL CITY OF ALEXANDRIA ARCHAEOLOGY DEPARTMENT (703-838-4399) IMMEDIATELY IF ANY STONE OR POTTERY, INDIAN ARTIFACTS OR HISTORICAL STRUCTURAL REMAINS, WALL 14. THE OWNER SHALL HAVE THE SOLE AUTHORITY TO DESIGNATE AND/OR LIMIT AREAS OF CONSTRUCTION. FOUNDATIONS, PRIVIES, CISTERNS, ICE WELLS, ETC OR CONCENTRATION OF ARTIFACTS ARE DRAWING AREA COORDINATE SYSTEM (DACS) STAGING, ACCESS, AND STORAGE FOUND DURING CONSTRUCTION WORK. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHEOLOGIST COMES TO THE SITE TO RECORD THE FINDS. 15. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN IN THE DRAWINGS ARE APPROXIMATE VIEW NUMBER ' ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF ALL EXISTING · VIEW NUMBER UNDERGROUND UTILITIES BEFORE COMMENCING ANY WORK. THE CONTRACTOR IS RESPONSIBLE FOR **EROSION AND SEDIMENT CONTROL NOTES: VIEW TITLE** THE COST OF DAMAGES THAT OCCUR AS A RESULT OF A FAILURE TO EXACTLY LOCATE AND PRESERVE THE CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH. INSTALL AND MAINTAIN TURBIDITY S-501 SCALE: 1"=50" ANY AND ALL UTILITIES. AND EROSION CONTROL MEASURE AND FOR QUALITY AND QUANTITY OF OFFSITE, WETLAND, S-502,S-503-SHEET NUMBER AND OPEN WATER DISCHARGES. 16. WHERE PEDESTRIAN AND DRIVER SAFETY IS ENDANGERED IN THE AREA OF DEMOLITION/ CONSTRUCTION SHEET NUMBER VIEW REFERENCED FROM WORK, USE TRAFFIC BARRICADES ("JERSEY" TYPE BARRIERS) WITH FLASHING LIGHTS. BARRICADES SHALL VIEW REFERENCED TO ADDITIONAL SHEET NUMBERS BE POSITIONED A MINIMUM OF 5 FEET FROM THE EDGE OF ANY OPENINGS IN THE STRUCTURE RESULTING 2. THE CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH, INSTALL, AND MAINTAIN TURBIDITY VIEW REFERENCED TO FROM DEMOLITION/CONSTRUCTION ACTIVITIES. BARRIERS IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH AROUND **SECTION CUT** VIEW TITLE THE WORK AREA DURING ALL DREDGING, DEWATERING, AND MARINE CONSTRUCTION 17. THE CONTRACTOR SHALL NOT OVERLOAD THE EXISTING STRUCTURE DURING DEMOLITION/ ACTIVITIES. THE CONTRACTOR HAS THE OPTION TO ENCLOSE THE ENTIRE WATERSIDE OF THE CONSTRUCTION. OPERATION OF ANY EQUIPMENT OR STORAGE MATERIALS WHICH WOULD RESULT IN SITE, WITHIN THE LIMITS OF DISTURBANCE OR TO INSTALL AND MOVE THE TURBIDITY · VIEW NUMBER · VIEW NUMBER OVERLOAD WILL NOT BE PERMITTED. CRANE OUTRIGGERS AND OTHER SUCH CONCENTRATED LOADS BARRIERS IN STAGES. SHALL BE PROVIDED WITH CRIBBING TO PROPERLY DISTRIBUTE THE LOAD. SAFETY OF PERSONNEL, ´A3` REQUIRED EQUIPMENT. CONDITION. AND SUITABILITY OF THE EXISTING STRUCTURE TO SUPPORT S-101 S-501 **TURBIDITY BARRIER DIAGRAMS:** MATERIAL AND EQUIPMENT LOADS IS THE CONTRACTOR'S RESPONSIBILITY. SHEET NUMBER SHEET NUMBER VIEW REFERENCED TO VIEW REFERENCED TO **TURBIDITY TURBIDITY** 18. PILES THAT BECOME DAMAGED OR FOR OTHER REASONS DO NOT BECOME A PERMANENT PART OF THE **BARRIER** BARRIER STRUCTURE SHALL BE EXTRACTED. MARK ANTHONY **ELEVATION VIEW** DETAIL CALLOUT PIRRELLO 19. THE OWNER MAKES NO REPRESENTATIONS ABOUT SUBSURFACE CONDITIONS THAT MAY BE Lic. No.030083 ENCOUNTERED WITHIN THE LIMITS OF THE PROJECT. WORK AREA **WORK AREA** * VIEW NUMBER IS BASED ON THE DACS LOCATION OF THE LOWER-LEFT EXTENTS OF THE VIEW ON THE REFERENCED SHEET. WHEN REFERENCING DRAWING INFORMATION BETWEEN SHEETS, BOTH THE VIEW AND SHEET NUMBERS MUST BE QUOTED TOGETHER - EITHER IN A CALLOUT FORMAT AS SHOWN ABOVE OR IN THE FORM; Sheet "VIEW NO./SHEET NO." (C1/MS301) Reference No. PERMIT SET EXISTING CONSTRUCTION **SHORELINE BARGE** ISSUED: 2021-11-19 G-002

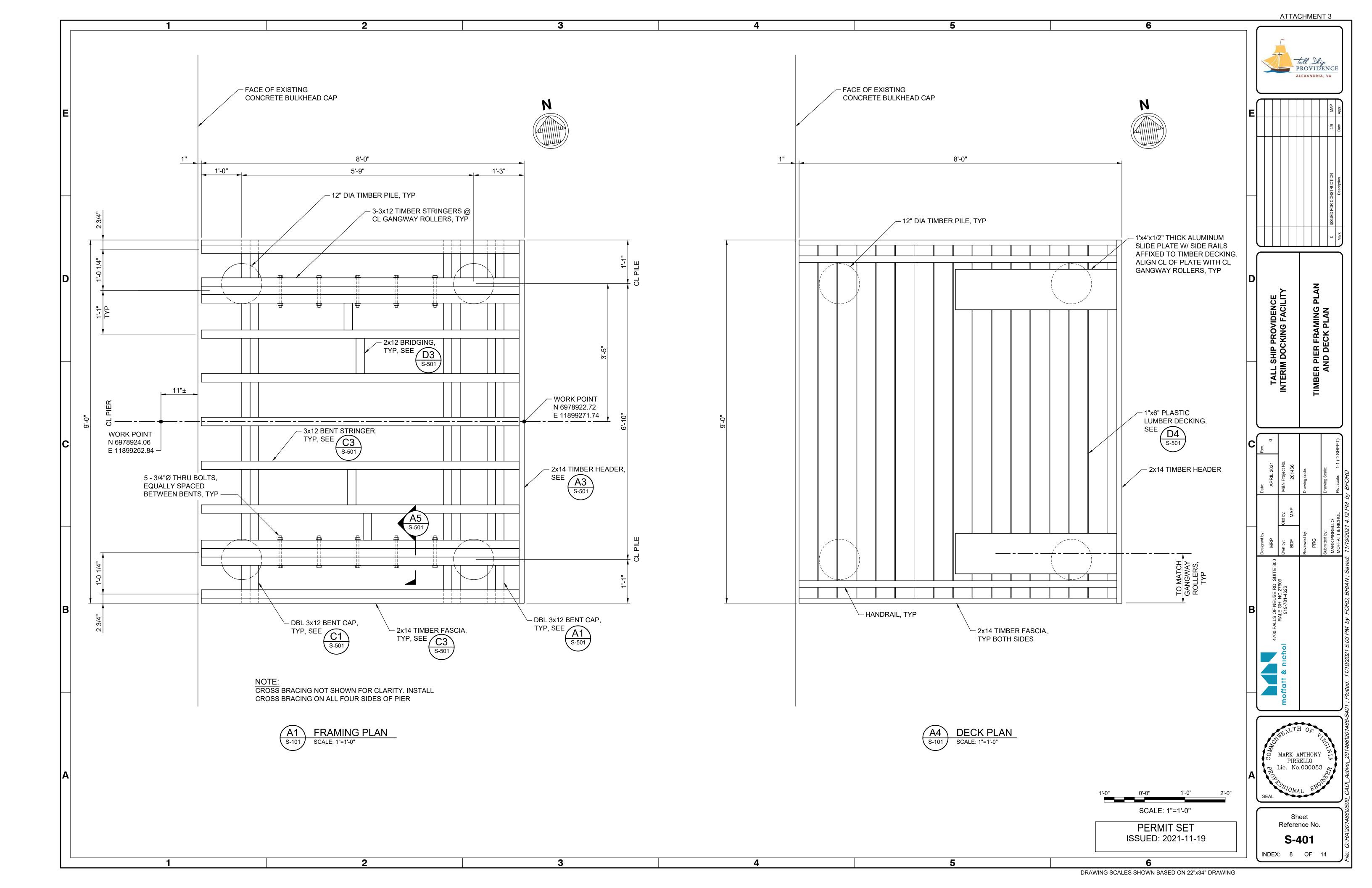
INDEX: 2 OF 14

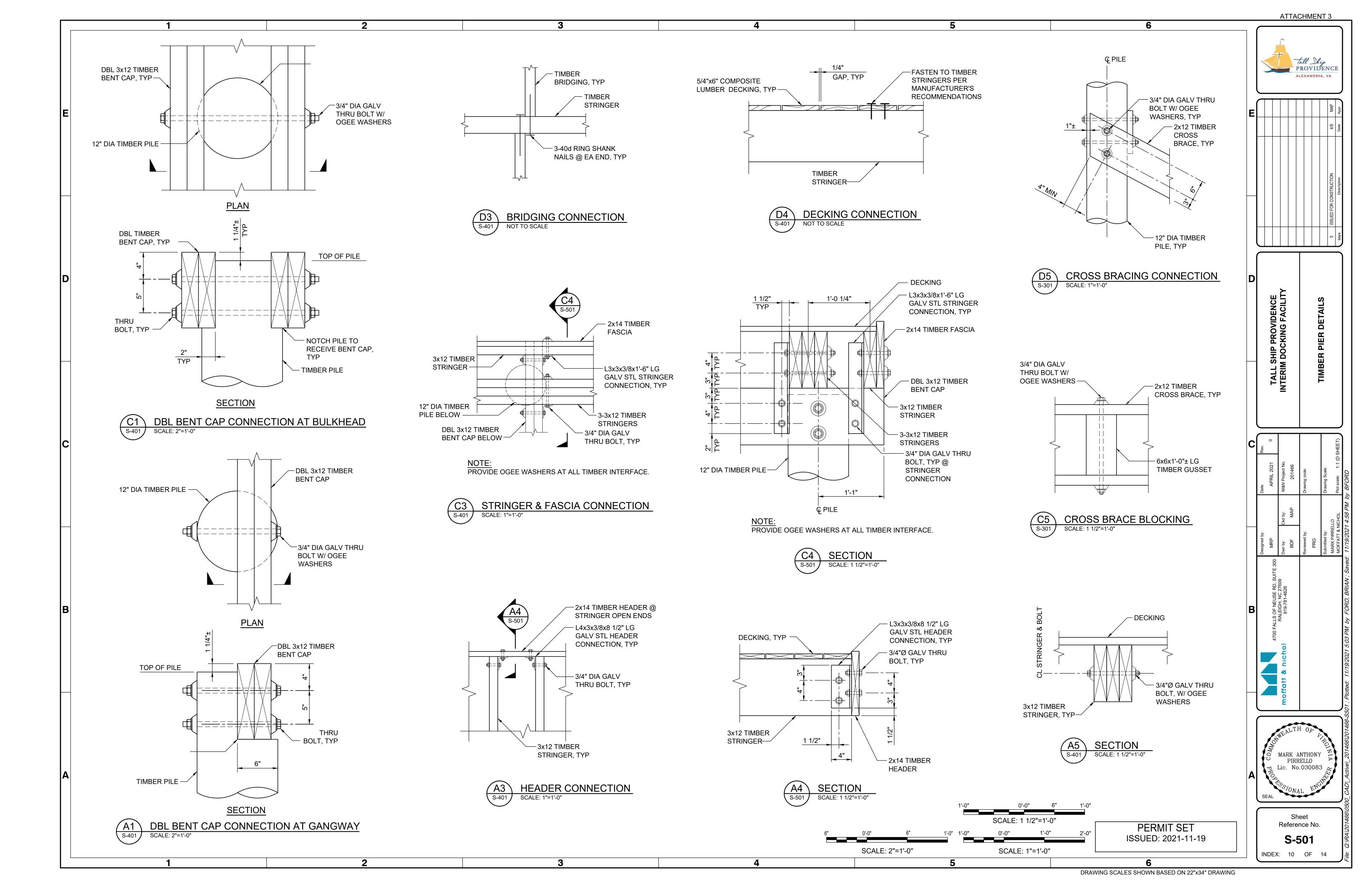


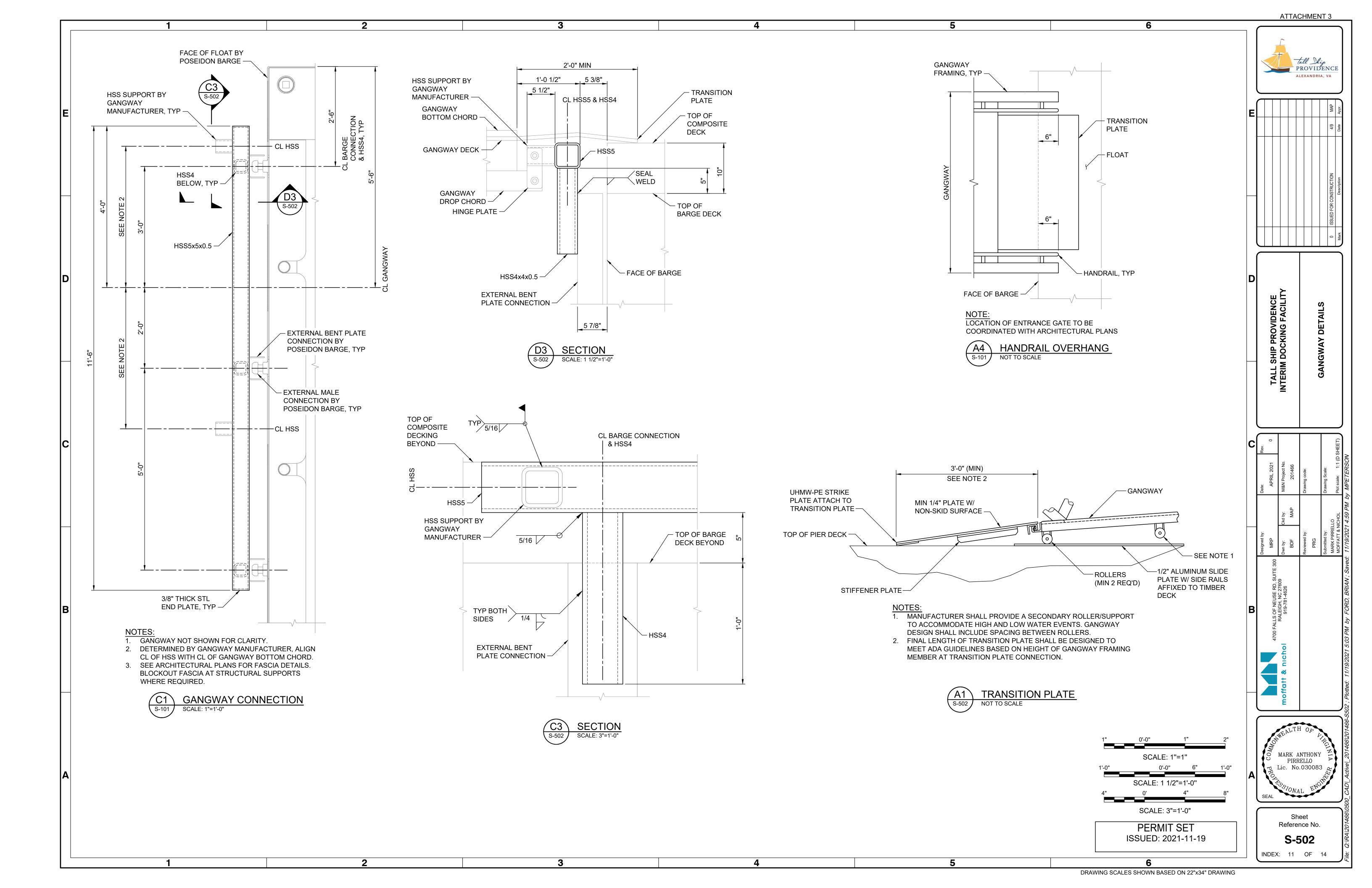


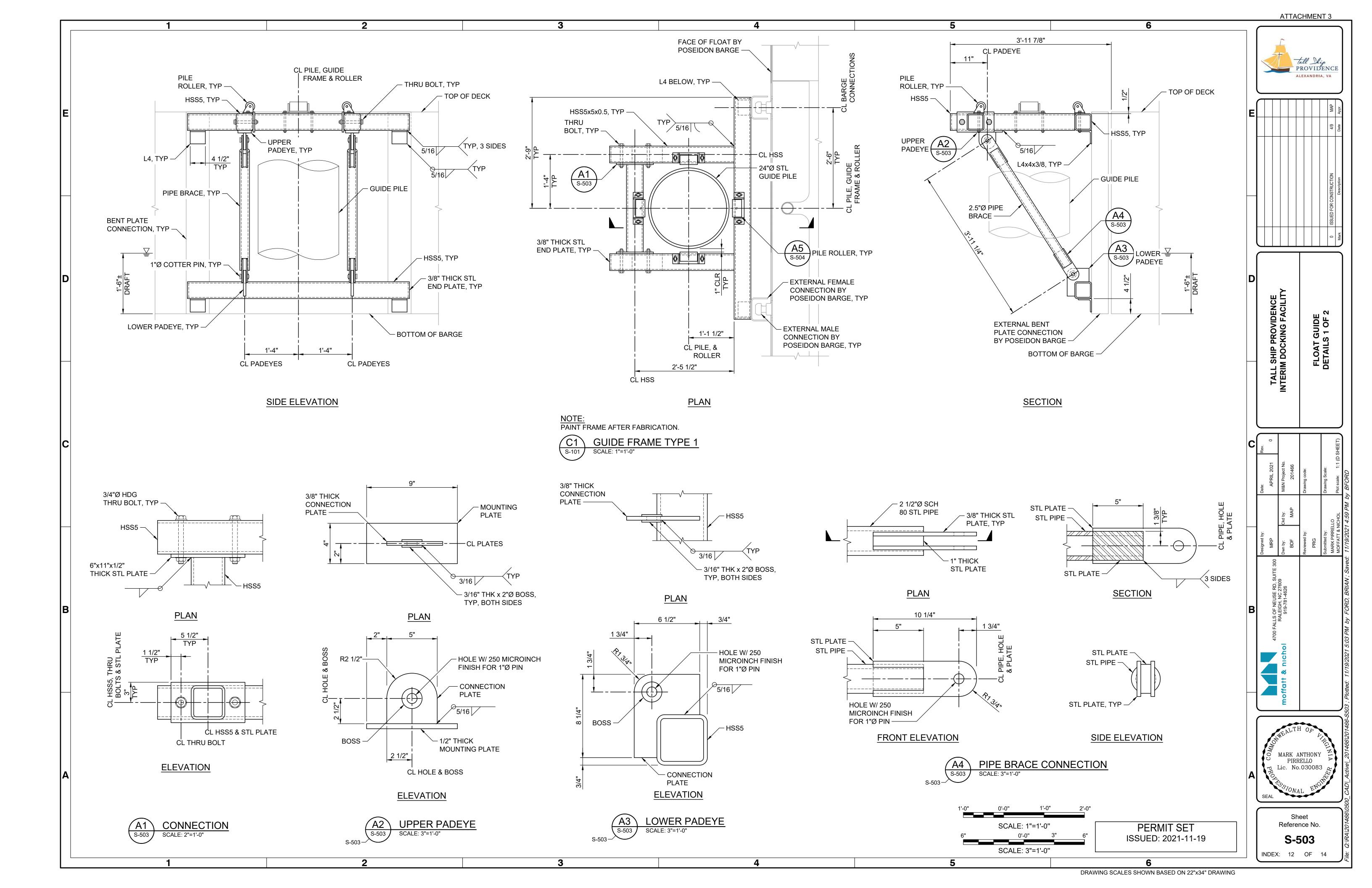


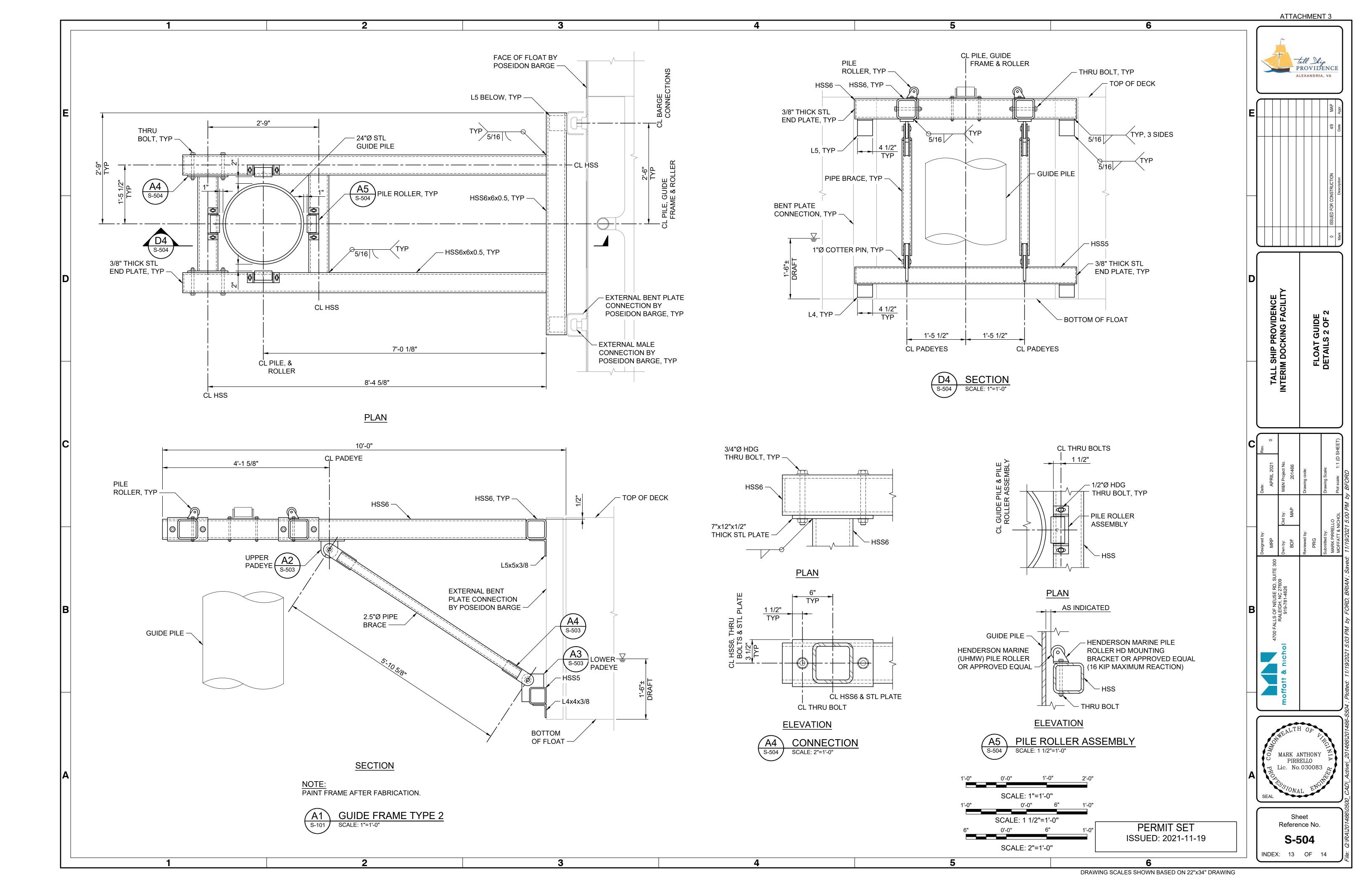


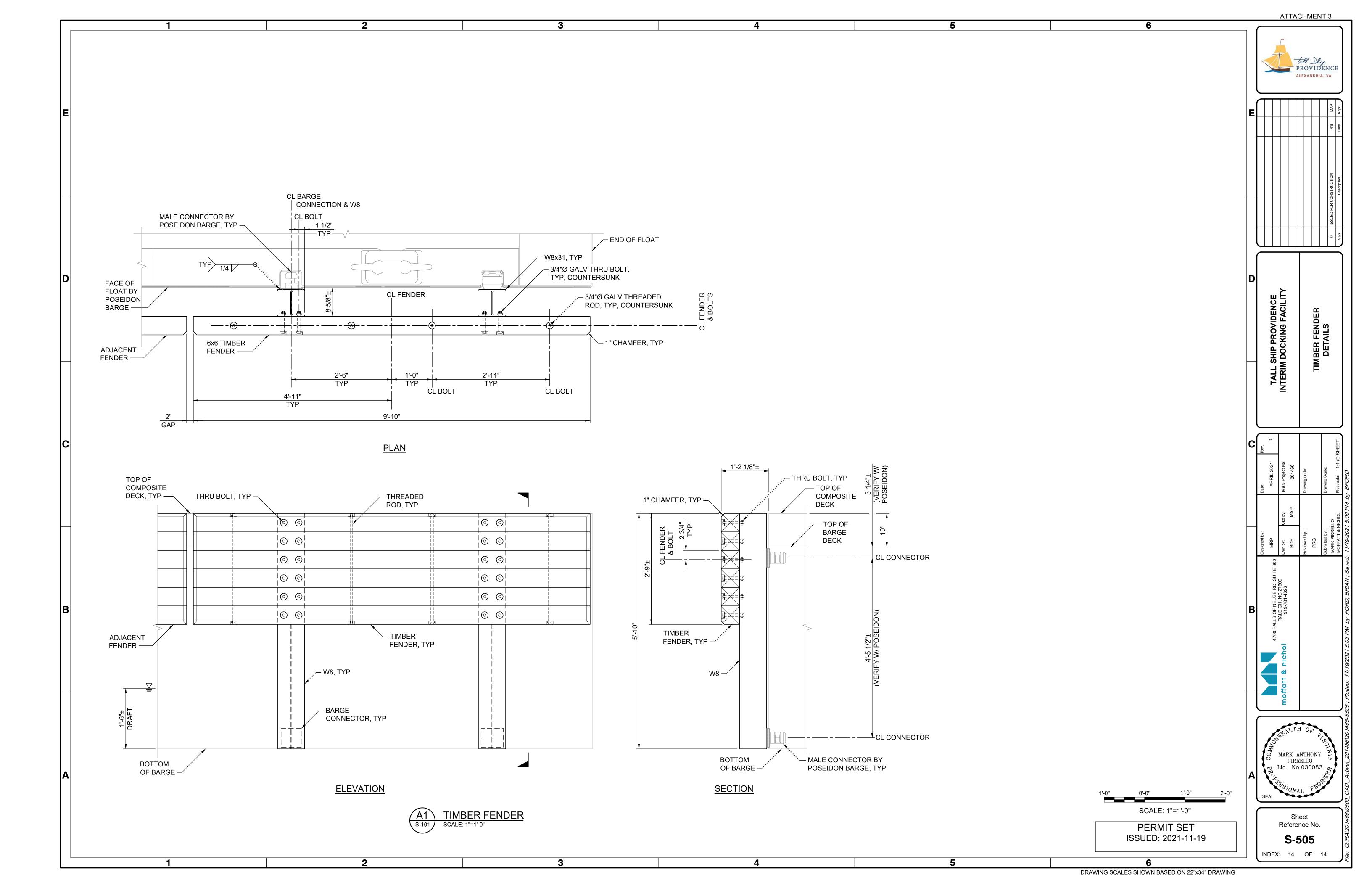


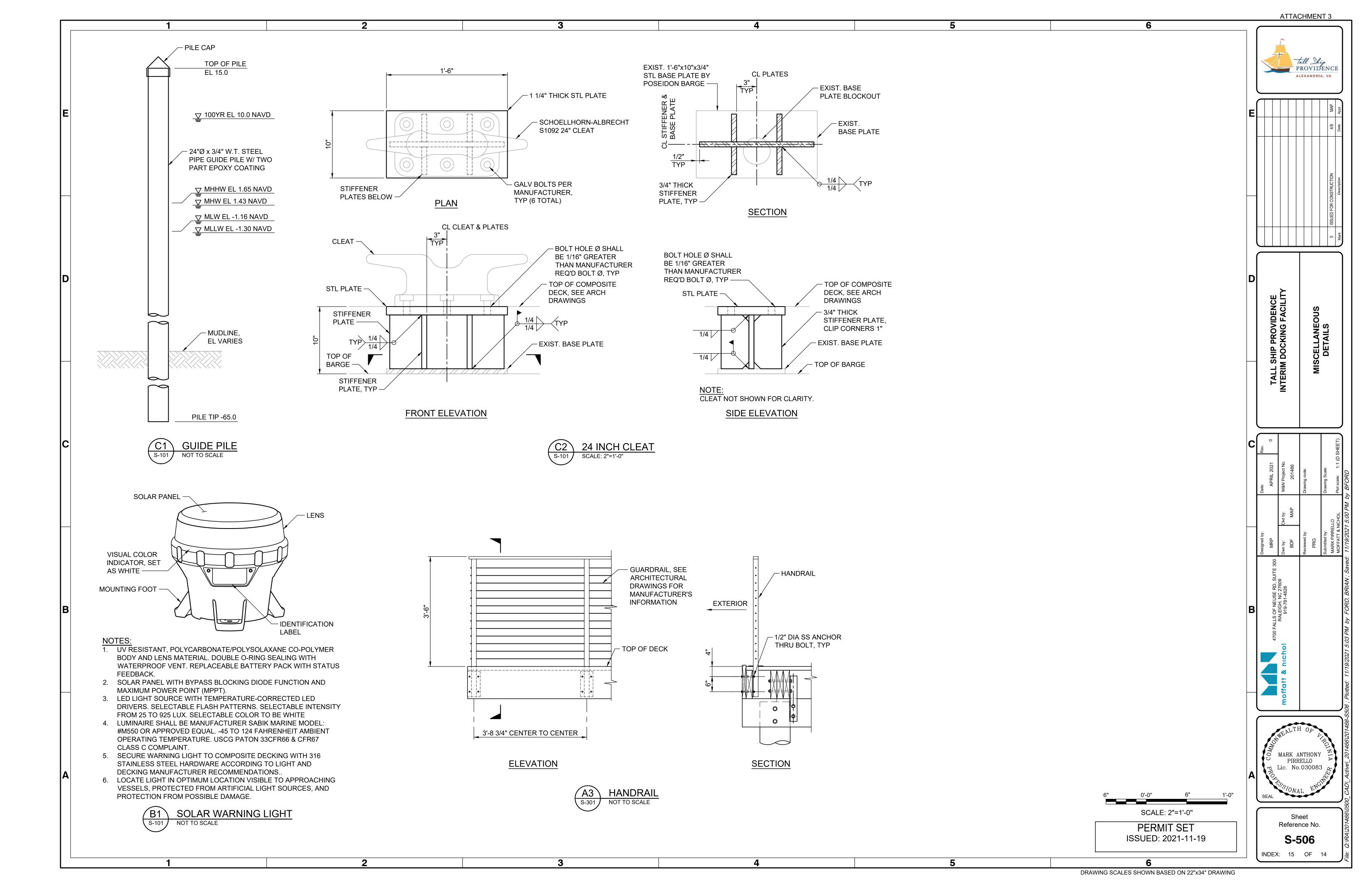














PROJECT INFORMATION

PROJECT NAME: JOHN WARNER MARITIME HERITAGE CENTER

PROJECT DESCRIPTION: CONSTRUCTION OF A BARGE, A PIER, AND TWO COTTAGES TO BE LOCATED ON THE WATERFRONT. THE PROPOSED PIER IS REQUIRED TO MOOR THE PROVIDENCE IN ALEXANDRIA. THE TWO COTTAGES ARE DESIGNED TO SERVE AS THE VISITOR CENTER / MUSEUM AND WILL SUPPORT THE CULTURAL AND HISTORICAL PROGRAMMING ASSOCIATED WITH THE PROVIDENCE.

OCCUPANCY:

ASSEMBLY (A3), MERCANTILE(M)

PROPOSED USE:

VISITOR CENTER / MUSEUM

PROJECT ADDRESS:

TALL SHIP PROVIDENCE PIER

RIPARIAN AREA ADJACENT TO 1A PRINCE STREET

ALEXANDRIA, VA 22314

TYPE OF CONSTRUCTION:

VB COMBUSTABLE, UNPROTECTED WOOD FRAME

HEIGHT OF NEW BUILDING:

CONTACT INFORMATION

OWNER: THE TALL SHIP PROVIDEN FOUNDATION CONTACT: CLAIR SASSIN	PHONE: (703) 304-6685
ARCHITECT: HGA CONTACT: JIM POLHAMUS	PHONE: (703) 317-602 JPolhamus@hga.co
CIVIL: MOFFATT & NICHOL CONTACT: MARK PIRRELLO	PHONE: (919) 781-462 EXT. 126
ELECTRICAL: HGA CONTACT: JOE DALY	PHONE: (703) 836-776 JDaly@hga.co
MECHANICAL/PLUMBING: HGA CONTACT: ED CLEMENTS.	PHONE: (703) 836-776 EClements@hga.co
STRUCTURAL: ADTEK ENGINEERS. INC CONTACT: ROSE A. RODRIGUEZ	PHONE: (703) 691-404 rrodriguez@adtekengineers.co
CONTRACTOR: JLL CONTACT: HALI VOYCIK	PHONE: (724) 561-290

JOHN WARNER MARITIME HERITAGE CENTER

ALEXANDRIA, VIRGINIA



AGENCY: TALL SHIP PROVIDENCE FOUNDATION



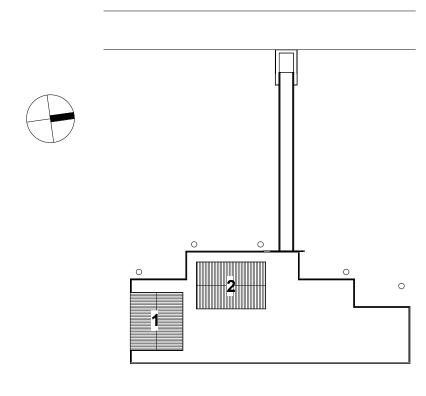
44 CANAL CENTER PLAZA, SUITE 100 ALEXANDRIA, VIRGINIA 22314 TELEPHONE: 703.836.7766

hga commission number: 2135-015-00

APRIL 2, 2021



KEY PLAN:



PERMIT SET

SPECIAL USE PERMIT # 2021-00001

	DRAWING INDEX
NUMBER	SHEET NAME
1-GENERAL	
A000	COVER SHEET
A010	GENERAL NOTES, ABBREVIATIONS AND SYMBOLS
A020	LIFE SAFETY PLAN
A021	COMCHECK ENVELOPE COMPLIANCE REPORT
A022	COMCHECK ENVELOPE COMPLIANCE REPORT
A040	ARCHITECTURAL SITE PLAN
4-ARCHITECTL	IRAL .
A200	FLOOR PLAN - MAIN LEVEL
A201	FLOOR PLAN - MEZZANINE
A202	ROOF PLAN
A300	REFLECTED CEILING PLAN - MAIN LEVEL
A400	EXTERIOR ELEVATIONS
A401	EXTERIOR ELEVATIONS
A402	EXTERIOR ELEVATIONS
A410	BUILDING SECTIONS
A420	WALL SECTIONS
A430	EXTERIOR DETAILS
A431	EXTERIOR DETAILS
A432	EXTERIOR DETAILS
A433	EXTERIOR DETAILS

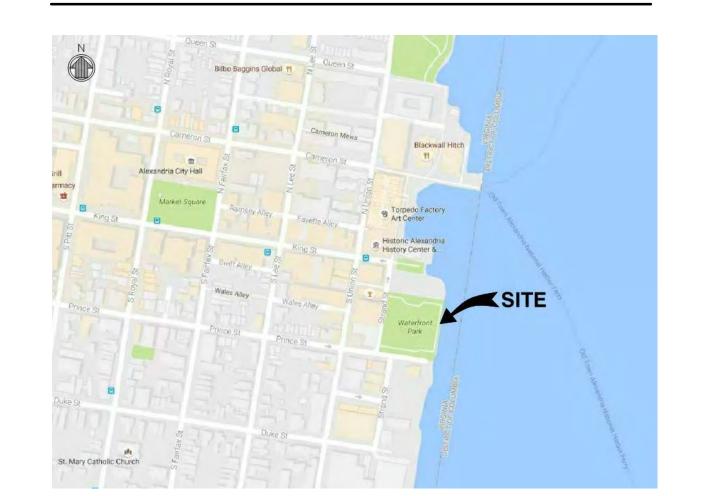
DRAWING INDEX		
NUMBER	SHEET NAME	
A440	PRE-ENGINEERED TRUSS DETAILS	
A600	TYPICAL MOUNTING HEIGHTS	
A601	SIGNAGE + DESIGN GUIDE - MOUNTING HEIGHTS	
A660	PARTITION TYPES & DOOR SCHEDULE	
5-STRUCTURE		
S001	STRUCTURAL NOTES	
S003	TOP OF DECK FRAMING PLAN	
S005	MEZZANINE FRAMING PLAN	
S200	ROOF FRAMING PLAN	
S202	WALL SECTIONS	
S410	DECK LEVEL DETAILS	
6-MECHANICAL		
M001	MECHANICAL GENERAL NOTES AND SYMBOLS	
M002	MECHANICAL COMCHECK	
M003	MECHANICAL COMCHECK	
M004	MECHANICAL COMCHECK	

DRAWING INDEX		
NUMBER	SHEET NAME	
M005	MECHANICAL SPECS	
M201	MAIN LEVEL PLAN - HVAC	
M700	MECHANICAL SCHEDULES AND DETAILS	
M701	MECHANICAL VRF SCHEMATICS	
M800	MECHANICAL SCHEDULES	
7-PLUMBING		
P001	PLUMBING GENERAL NOTES AND SYMBOLS	
P200	DECK UNDERFLOOR PLAN - PLUMBING	
P201	MAIN LEVEL PLAN - PLUMBING	
P401	ENLARGED MAIN LEVEL PLAN - PLUMBING	
P600	PLUMBING RISERS	
P700	PLUMBING DETAILS	
P800	PLUMBING SCHEDULES	
8-ELECTRICAL		
E000	ELECTRICAL GENERAL NOTES AND SYMBOLS	
E001	ELECTRICAL SPECIFICATIONS	
E201	LIGHTING PLAN - LEVEL 01	
E301	POWER PLAN - LEVEL 01 AND MEZZANINE	
E401	SYSTEMS PLAN - LEVEL 01	
E500	LUMINAIRE SCHEDULE	
E510	ELECTRICAL SCHEDULES	
E600	ELECTRICAL COMCHECK	
E601	ELECTRICAL COMCHECK	
Grand total: 54		

APPPLICABLE CODES

BUILDING CODE: 2015 VA CONSTRUCTION CODE / USBC PART I MAINTENANCE CODE 2015 VA MAINTENANCE CODE / USBC PART III **MECHANICAL CODE:** 2015 VA MECHANICAL CODE **ELECTRICAL CODE**: NEC 2014 PLUMBING CODE: 2015 VA PLUMBING CODE **ENERGY CODE**: 2015 VA ENERGY CONSERVATION CODE FIRE PREVENTION CODE: 2015 VA FIRE PREVENTION CODE ACCESSIBILITY CODE: 2015 VA CONSTRUCTION CODE AND ICC/2009 ANSI A117.1 CODE

LOCATION PLAN



A	ADOLUTEOT/ENON/EED	ETR	EXISTING TO REMAIN	MISC	MISCELLANEOUS
A/E	ARCHITECT/ENGINEER	EXCL EXG	EXCLUD(E) (ED) (ING)	MO MT(D)	MASONRY OPENING
ACOUS AD	ACOUSTICAL ACCESS DOOR	EXH	EXISTING EXHAUST	MT(D) MTL	MOUNT(ED) METAL
ADA	THE AMERICANS WITH DISABILITIES ACT	EXP	EXPAN(D) (SION)	MUL	MULLION
ADD	ADDENDUM	EXT	EXTERIOR	MVBL	MOVABLE
ADDL	ADDITIONAL	EXTR	EXTERIOR	N	
ADJ	ADJUSTABLE	F		N	NORTH; NITROGEN
ADJC	ADJACENT	F/F	FACE TO FACE	N/A	NOT APPLICABLE
AED	DEFIBRILATOR	FA	FIRE ALARM	NEC	NECESSARY
AF	ACCESS FLOOR	FACP	FIRE ALARM PANEL	NIC	NOT IN CONTRACT
AFF AL	ABOVE FINISH FLOOR ALUMINUM	FAS FB	FASTEN(ED) (ER) FLAT BAR	NO2 NOM	NITROUS OXIDE NOMINAL
ALT	ALTERNATE	FCO	FLOOR CLEAN OUT	NTS	NOT TO SCALE
AP	ACCESS PANEL	FD	FLOOR DRAIN	0	110111000,122
APPROX	APPROXIMATE(LY)	FDC	FIRE DEPARTMENT CONNECTION	0	OXYGEN
ARCH	ARCHITECT(URAL)	FDN	FOUNDATION	O2	OXYGEN
ASC	ABOVE SUSPENDED CEILING	FE	FIRE EXTINGUISHER	OC	ON CENTER
ASPH	ASPHALT	FEC	FIRE EXTINGUISHER CABINET	OD	OUTSIDE DIAMETER/DIMENSION
В	DOADD	FF	FLOOR FINISH	OF	OUTSIDE FACE
BD	BOARD	FHC	FIRE HOSE CABINET	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
BLDG BLKG	BUILDING BLOCKING	FHP FIN	FULL HEIGHT PARTITION FINISH	OFF OFOI	OFFICE OWNER FURNISHED, OWNER INSTALLED
BM	BEAM	FL FL	FLASHING	OFVI	OWNER FURNISHED, VENDOR INSTALLED
ВО	BOTTOM OF	FLR	FLOOR(ING)	OH	OVERHEAD
BOT	BOTTOM	FO	FACE OF	OH	OPPOSITE HAND
BRKT	BRACKET	FOC	FACE OF CONCRETE	OHSC	OVERHEAD SERVICE CARRIER
BS	BACKSPLASH	FOW	FACE OF WALL	OPG	OPENING
BSMT	BASEMENT	FP	FILLER PANEL	OPP	OPPOSITE
BTW	BETWEEN	FSTR	FASTEN(ED) (ER)	OPT	OPTION(AL)
BYND	BEYOND	FTO	FOOTING	P PA	DOMED ACCION
C	CADINET	FTG	FOOTING	PA	POWER ASSIST
CAB CEN	CABINET CENT/ED) (TDAL)	G GA	GAUGE	PAR PART	PARALLEL PARTIAL
CFCI	CENT(ER) (TRAL) CONTRACTOR FURNISHED, CONTRACTOR	GC	GENERAL CONTRACTOR	PB	PARTICLE; PARTIAL PANIC BAR
01 01	INSTALLED	Н	GENERAL GONTRAGTOR	PC	PRECAST
CG	CORNER GUARD	H	HIGH, HEIGHT	PERF	PERFORATED
CIP	CAST IN PLACE	HD	HEAD	PERIM	PERIMETER
CJ	CONTROL/CONSTRUCTION JOINT	HDW	HARDWARE	PGBD	PEG BOARD
CL	CENTER LINE	HM	HOLLOW METAL	PL	PLATE
CLG	CEILING	НО	HOLD OPEN	PLAM	PLASTIC LAMINATE
CLR	CLEAR(ANCE)	HORIZ	HORIZONTAL	PLBG	PLUMBING
CLR CMPST	CLEAR COMPOSITE	HR	HANDRAIL(S)	PLYWD	PLYWOOD
CMU	CONCRETE MASONRY UNIT	HT	HEIGHT	PNEU PNL	PNEUMATIC PANEL
CNTFG	CENTRIFUGE	ID	INSIDE DIAMETER/DIMENSION	PR	PAIR
CNTR	COUNTER	IN	INCH(ES)	PRCST	PRECAST
CO	CASED OPENING; CLEAN OUT	INCL	INCLU(DE) (DED) (DING) (SIVE)	PREFAB	PREFABRICATED
COL	COLUMN	INSUL	INSULAT(E) (ED)	PTD	PAINTED
CONC	CONCRETE	INT	INTERIOR	PTN	PARTITION
CONN	CONNEC(TION)	INTR	INTERIOR	PTS	PNEUMATIC TUBE STATION
CONST	CONSTRUCTION	_ J		Q	
CONT	CONTINU(E) (OUS) (ATION) CONTINUOUS	JAN	JANITOR	QTY	QUANTITY
CORR	CORRIDOR	JST JT	JOIST	R R	RADIUS; RADII; RISER (STAIR)
CR	CARD READER	K	JOHVI	RCP	REFLECTED CEILING PLAN
CYL	CYLINDER	KOP	KNOCKOUT PANEL	RD	ROOF DRAIN
D		KPL	KICK PLATE	REC	RECESSED
D	DEEP, DEPTH	KS	KNEE SPACE	RECP	RECEPTACLE
DBL	DOUBLE	L		REF	REFER(ENCE)
DED	DEDICATED	L	ANGLE (STRUC SHAPE)	REFR	REFRIGERATOR
DEG	DEGREE DEMO(LICH) (LITION)	LAB	LABORATORY	REINF	REINFORC(E) (ED) (ING) (EMENT)
DEMO DEPT	DEMO(LISH) (LITION) DEPARTMENT	LAV	LAVATORY	REQD	REQUIRED
DET	DETAIL	LB LENGTH	POUND LONG LENGTH	RESIL	RESILIENT REVIS(E) (ED) (ION)
DF	DRINKING FOUNTAIN	LENGTH LF	LONG, LENGTH LINEAR FOOT	REV RH	REVIS(E) (ED) (ION) RIGHT HAND
DIA	DIAMETER		LINEAL FOOT, FEET	RHR	RIGHT HAND REVERSE
DIM	DIMENSION	LH	LEFT HAND	RM	ROOM
DISP	DISPENSER	LHR	LEFT HAND REVERSE	RO	ROUGH OPENING
DN	DOWN	LKR	LOCKER	S	
DO	DATA OUTLET	LNTL	LINTEL	SCHED	SCHEDULE
DR	DOOR DOOR	LT	LIGHT	SECT	SECTION
DWG(S)	DRAWING(S)	LTG	LIGHTING	SF	SQUARE FOOT/FEET
(E), EXIST	EXISTING	LTWT	LIGHTWEIGHT	SHT	SHEET(ING)
(E), EXIST	ELEVATOR	LVL	LEVEL	SHTG	SHEATHING SIMIL AR
EA	EACH	LVR M	LOUVER	SIM SKLT	SIMILAR SKYLIGHT(S)
EIFS	EXTERIOR INSULATION FINISH SYSTEM	MACH	MACHINE	SPEC(S)	SPECIFICATION(S)
EJ	EXPANSION JOINT	MAINT	MAINTENANCE	SPK	SPEAKER
EL	ELEVATION	MAS	MASONRY	SS	STAINLESS STEEL
ELEC	ELECTRIC(AL)	MATL	MATERIAL	ST	STREET
ELEV	ELEVATOR	MAX	MAXIMUM	STAG	STAGGER
EMER	EMERGENCY	MB	MARKERBOARD	STD	STANDARD
EMI	ELECTROMAGNETIC INTERFERENCE	MECH	MECHANICAL(LY)	STL	STEEL
ENCL	ENCLOSURE ELECTRICAL OUTLET	MED	MEDIUM	STOR	STORAGE (AL)
EO EOS	ELECTRICAL OUTLET	MEMB	MEMBRANE	STRUC	STRUCTUR(E) (AL)
EOS EP	EDGE OF SLAB ELECTRICAL PANEL	MET ME77	METAL MEZZANINE	SUSP	SUSPENDED SYMMETRYN (ICAL)
EPDM	ETHYLENE PROPYLENE DIENE MONOMER	MEZZ MFR	MEZZANINE MANUFACTURER	SYM	SYMMETR(Y) (ICAL)
EPRF	EXPLOSION PROOF	MH	MANHOLE	T	TREAD
EQ	EQUAL	MIN	MINIMUM	T&G	TONGUE AND GROOVE
EQUIP	EQUIPMENT	MIR	MIRROR	T/D	TELEPHONE DATA OUTLET
		<u> </u>			

TEL	TELEPHONE		
TEMP	TEMPORARY		
TER	TERRAZZO		
THK	THICKNESS		
TME	TO MATCH EXIST	ING	
TO	TOP OF		
TOB	TOP OF BEAM		
TOC	TOP OF CONCRE	TE	
TOS	TOP OF STEEL		
TV	TELEVISION		
TYP	TYPICAL		
U			
UC	UNDER CABINET		
UCL	UNDER CABINET	LIGH	TING
UNEX	UNEXCAVATED		-
UNFIN	UNFINISHED		
UNO	UNLESS NOTED	OTHF	RWISE
UPS	UNINTERRUPTIB		
UR	URINAL		WER OOF FEE
UV	ULTRAVIOLET		
V	OLITAVIOLET		
V VAC	VACUUM		
VAC		ON)	
VAR VCT	VAR(Y) (IES) (IAT		
		ION	ILC
VEN	VENEER		
VERT	VERTICAL		
VERT	VERTICAL		
VEST	VESTIBULE		
VIF	VERIFY IN FIELD		
W			
W	WIDE, WIDTH		
W/	WITH		
W/O	WITHOUT		
WC	WATER CLOSET		
WD	WOOD		
WP	WATERPROOFIN	G	
WSCT	WAINSCOT		
WT	WEIGHT		
X			
XP(D)	EXPOSE(D)		
SDECIVI	SYMBOLS		
		ш	NUMBED
& AN	ט	#	NUMBER

∠ ANGLE(STRUC SHAPE)

@ AT

€ CENTERLINE

PER

± PLUS/MINUS

PERPENDICULAR

SHEET NUMBER **EXAMPLE** THIS CHARACTER DENOTES THE SHEET IS 1. DISCIPLINE DESIGNATION 2. SHEET TYPE THIS CHARACTER DENOTES THE TYPE OF 3. PLAN TYPE 4. FLOOR NUMBER 5. PLAN AREA

3. PLAN TYPE THESE CHARACTERS DENOTE THE SUB CATEGORY OF THE SHEET TYPE

4. FLOOR NUMBER THESE CHARACTERS DENOTE THE FLOOR SHOWN ON THE SHEET

SHEET NUMBER EXPLANATION

AN ARCHITECTURAL DRAWING.

INFORMATION ON THE SHEET

1. DEMOLITION PLANS

4. EXTERIOR DETAILING

6. INTERIOR DETAILING

5. VERTICAL CIRCULATION

1. ARCHITECTURAL

2. SHEET TYPE

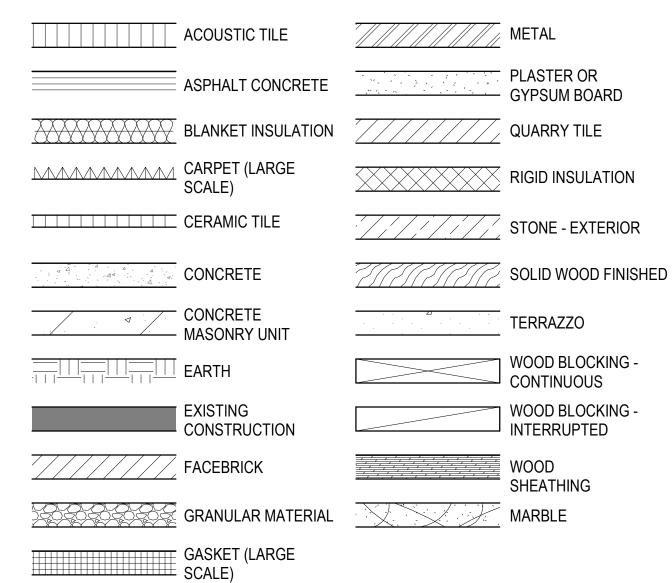
FLOOR PLANS

3. CEILING PLANS

7. SCHEDULES

5. PLAN AREA THESE CHARACTERS DENOTE THE AREA PLAN SHOWN ON THE SHEET (IF USED)

ARCHITECTURAL SHEET NUMBER DESIGNATIONS 12" = 1'-0"



ARCHITECTURAL MATERIAL DESIGNATIONS

GENERAL NOTES

A. THESE GENERAL NOTES APPLY TO THE CONSTRUCTION DOCUMENTS AND SHALL GOVERN UNLESS NOTED OTHERWISE BY GENERAL NOTES OR KEYNOTES ON SPECIFIC SHEETS.

B. COORDINATE ALL PROJECT PHASING WITH OWNER OR AS SPECIFIED AND/OR SHOWN ON THE DRAWINGS.

C. PROVIDE A SAFE MEANS OF EGRESS THROUGH AND/OR AROUND THE BUILDING AND SITE PER APPLICABLE CODES AT ALL TIMES DURING THE CONSTRUCTION PROCESS. MINIMIZE DISRUPTION TO ADJACENT AREAS/FLOORS AS MUCH AS POSSIBLE.

F. NOTIFY ARCHITECT PROMPTLY IF INFORMATION SHOWN IN ONE CONSTRUCTION DOCUMENT CONFLICTS WITH INFORMATION SHOWN ON ANOTHER.

G. NOTIFY ARCHITECT PROMPTLY IF CONSTRUCTION DOCUMENTS ARE INCONSISTENT WITH THE CURRENT APPLICABLE CODES AND REGULATIONS.

H. NOTIFY ARCHITECT PROMPTLY IF ANY EXISTING CONDITIONS CONFLICT WITH THE CONSTRUCTION DOCUMENTS.

J. STRUCTURAL STEEL MEMBER PROFILES AS INDICATED ON ARCHITECTURAL DRAWINGS MAY VARY FROM ACTUAL PROFILES AND SIZES INDICATED ON THE STRUCTURAL DRAWINGS WHICH SHALL GOVERN.

K. COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES. SPEAKERS, SMOKE DETECTORS, EXIT LIGHTS, ACCESS PANELS, SPRINKLER HEADS, HVAC DUCTS, DIFFUSERS, REGISTERS, AND OTHER CEILING ITEMS WITH MECHANICAL, ELECTRICAL AND OTHER TRADES. NOTIFY ARCHITECT PROMPTLY IF ANY LOCATIONS CONFLICT WITH ARCHITECTURAL REFLECTED CEILING PLANS.

L. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR FLOOR, WALL AND CEILING OPENINGS. ALL OPENINGS SHALL BE CUT AND PATCHED AS REQUIRED BY EACH DISCIPLINE OR TRADE REQUIRING THE OPENING UNLESS NOTED OTHERWISE IN THE CONSTRUCTION DOCUMENTS. PATCHING IS TO BE IN CONFORMANCE WITH APPLICABLE CODES.

M. WOOD BLOCKING WITHIN THE WALL SYSTEM SHALL BE FIRE RETARDANT TREATED. ALL EXTERIOR WOOD BLOCKING SHALL BE MOISTURE TREATED. WOOD MAY NOT BE USED IN AN EXPOSED LOCATION UNLESS IT IS A FINISH MATERIAL IN A NON-COMBUSTIBLE ASSEMBLY OR AS SPECIFIED.

44 Canal Center Plaza, Suite 100 Alexandria, Virginia 22314 Telephone 703.836.7766

> STRUCTURE ADTEK ENGINEERS. INC 9990 FAIRFAX BLVD #300 FAIRFAX, VA 22030 (703) 691-4040

CIVIL/MARINE **MOFFATT & NICHOL** 4700 FALLS OF NEUSE ROAD SUITE 300 RALEIGH, NC 27609 (919) 78-4626

PROJECT: **JOHN WARNER** MARITIME HERITAGE **CENTER**

RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA 22314



AGENCY: TALL SHIPS PROVIDENCE FOUNDATION

SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER

DATE: APRIL 2, 2021 REGISTRATION NUMBER:

NO DESCRIPTION DATE ISSUANCE HISTORY - THIS SHEET

GENERAL

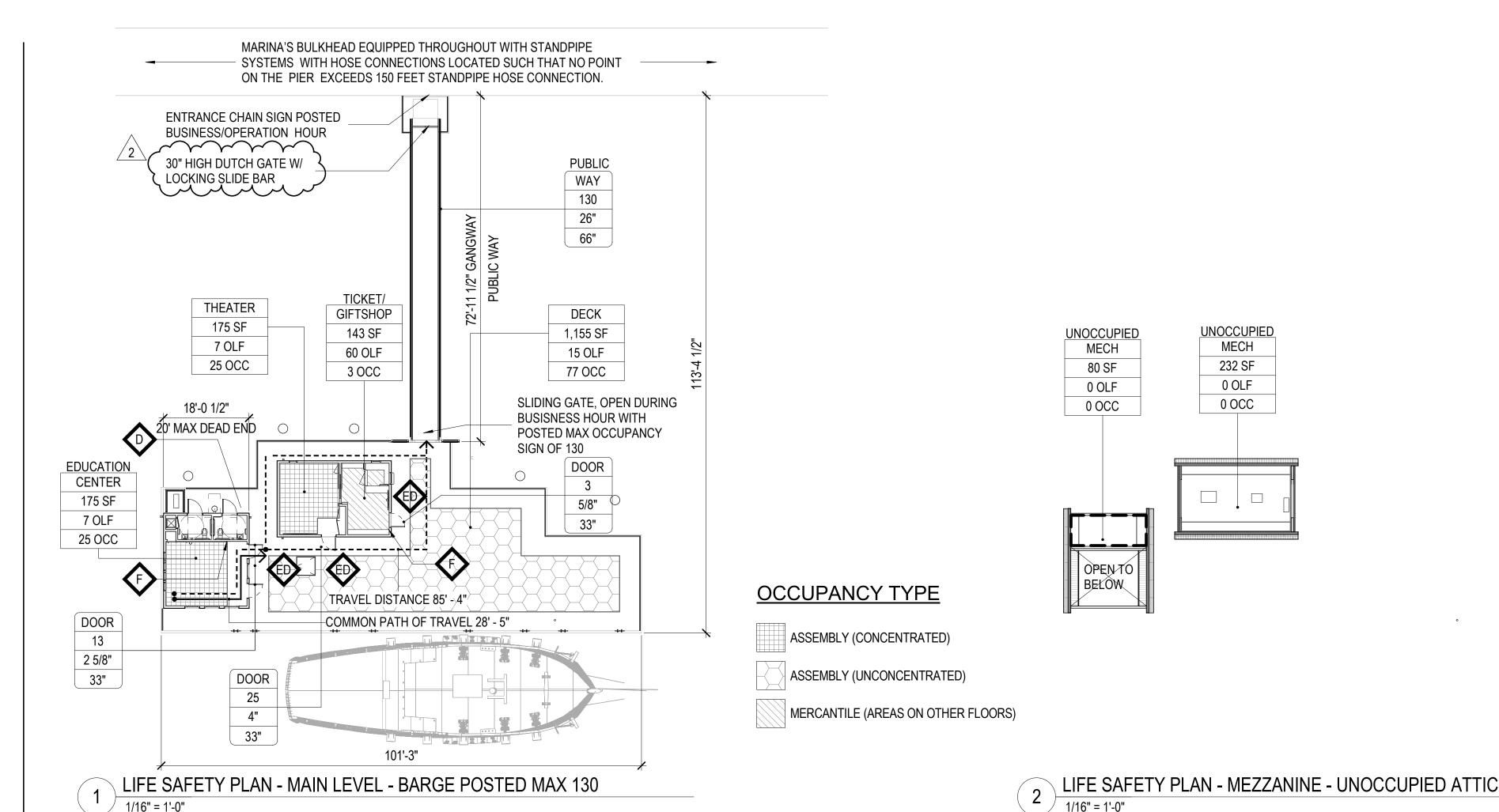
2135-015-00

NOTES, **ABBREVIATIONS** AND SYMBOLS

HGA NO:

DATE: APRIL 2, 2021





CODE ANALYSIS

1. CODE SUMMARY

NON SEPARATED ASSEMBLY (A3), MERCANTILE(M)

PROPOSED USE: VISITOR CENTER / MUSEUM

TYPE OF CONSTRUCTION:

VB COMBUSTABLE, UNPROTECTED WOOD FRAME

STANDPIPES: YES

MARINA'S BULKHEAD EQUIPPED THROUGHOUT WITH STANDPIPE SYSTEMS WITH HOSE CONNECTIONS LOCATED SUCH THAT NO POINT ON THE PIER EXCEEDS 150 FEET STANDPIPE HOSE CONNECTION. BUILDING SPRINKLER: NO

HEIGHT OF STORIES: 1 LEVEL

FIRE ALARM:

2. PROJECT DISCRIPTION

- CONSTRUCTION OF A BARGE, A PIER, AND TWO COTTAGES TO BE LOCATED ON THE WATERFRONT.
- MECHANICAL, ELECTRICAL, & LIGHTING WORK IN ASSOCIATION WITH THE ABOVE.

3. BUILDING CONSTRUCTION TYPE, HEIGHT, AND AREA (VIRGINA STATE BUILDING CODE CHAPTERS 5 AND 6)

3.1.BUILDING HEIGHT: 14' 0" / HEIGHT ALLOWED: 40'-0" / 1 STORY ABOVE GRADE PLANE.

FLOOR LEVEL PROPOSED TOTAL GROSS SQ FT ALLOWABLE SF PER VBC TABLE 506.2

BARGE & GANGWAY 3,850 GSF 6,000 SF (NON-SPRINKLERED) COTTAGE1 320 GSF **GROUND FLOOR** UNOCCUPIED MECHANICAL MEZZANIE/ATTIC 70 GSF COTTAGE 2 **GROUND FLOOR** 384 GSF UNOCCUPIED STORAGE MEZZANIE/ATTIC 250 GSF

3.2 GROUP A3

4. FIRE-RESISTANCE REQUIREMENTS (VIRGINIA STATE BUILDING CODE 601 AND 602)

4.1. TYPE VB CONSTRUCTION	REQUIRED	PROVIDED
 4.1.1 PRIMARY STRUCTURAL FRAME 4.1.2 BEARING WALLS, EXTERIOR 4.1.3. BEARING WALLS, INTERIOR 4.1.4. NONBEARING WALLS, EXTERIOR, INTERIOR 4.1.5. FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS 4.1.6. ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS 	0HR 0HR 0HR 0HR 0HR 0HR	0HR 0HR 0HR 0HR 0HR
FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASE (TABLE 602): BUILDING SEPARATION DISTANCE	ED ON FIRE SEF	PROVIDED

REQUIRED PROVIDED

NORTH > 30-FT (OPEN WATER)	0HR	0HR
SOUTH> 30-FT (OPEN WATER)	0HR	0HR
EAST> 30-FT (OPEN WATER)	0HR	0HR
WEST> 30-FT (OPEN WATER)	0HR	0HR
(EXCEPTION 1 SECTION 705.3, VBC: COTTAGE 1 AND 2 SHALL BE CONSID	ERED AS PO	RTIONS OF
ONE BUILDING FOR THE PURPOSE OF DETERMINING FIRESEPARATION DI	STANCE REC	QUIREMENT.)

5. FIRE SUPRESSION AUTOMATIC SPRINKLER SYSTEM: STANDPIPES:

6. PORTABLE FIRE EXTINGUISHERS

6.1. EXTERIOR CARTRIDGE-TYPE, MULTIPURPOSE DRY CHEMICAL-TYPE PORTABLE FIRE EXTINGUISHERS HAVING A MINIMUM RATING OF 4-A:40-B:C SHALL BE PROVIDED IN GENERAL AREAS THROUGHOUT THE FACILITY WITH A MAXIMUM TRAVEL DISTANCE TO ANY EXTINGUISHERS OF 22,860 mm (75ft.) FROM ANY PORTION OF THE FACILITY. 9. ACCESSIBILITY REQUIREMENTS

ARCHITECTURAL BARRIERS ACT (ABA)

(VBC 803.11, 803.1.1, AND 804.4.1)

E84-09. ALL OCCUPANCIES & ALL SPACES

11. PLUMBING FIXTURES MAXIMUM OCCUPANCY 130

DRINKING FOUNTAIN

SERVICE SINK

WALL AND CEILING FINISHES - FLAME SPREAD:

WALL AND CEILING FINISHES - SMOKE DEVELOPMENT:

THE BUILDING SHALL MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA) AND

SMOKE-DEVELOPED RATING LESS THAN OR EQUAL TO 450 WHEN TESTED IN ACCORDANCE WITH ASTE

INTERIOR FLOOR FINISH SHALL COMPLY WITH 2007 EDITION OF DOC FF-1, " PILL TEST", (CPSC 16 CFR,

FEMALE OCCUPANCY 65 WATER CLOSETS 1 PER 65 / 1 REQ'D LAVATORIES 1 PER 200 / 1 REQ'D

MALE OCCUPANCY 65 WATER CLOSETS 1 PER 125 / 1 REQ'D LAVATORIES 1 PER 200 / 1 REQ'D

ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES, FEDERAL REGISTER JULY 23, 2004.

10. INTERIOR FINISHES - FLAME SPREAD AND SMOKE DEVELOPMENT REQUIREMENTS

ROOMS, AND ENCLOSED SPACES: CLASS C FLAME SPREAD, 76-200, PER ASTE E84-09.

PART 1630. PER VBC 804.4.1 & CHAPTER 35) ALL OCCUPANCIES & ALL SPACES

1 PER 500 /1 REQ'D

1 REQ'D

ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES. ICC/ANSI A117.1-09

7. FIRE DETECTION, ALARM, AND COMMUNICATION

FIRE ALARM SYSTEM:

8. MEANS OF EGRESS

8.1. OCCUPANT LOAD FACTORS (SQ FT PER OCCUPANT) (VBC TABLE 1004.1.2)

SEE AREA SCHEDULES SHOWN PER FLOOR.

8.3.1. IN GENERAL. TWO EXITS ARE REQUIRED FROM ALL BUILDING AREAS. UP TO AN OCCUPANT LOAD OF 500. ONE WAY TRAVEL TO SHORE IS ALLOWED FOR PIER EXTENDING LESS THAN 150 FT FROM SHORE PER NFPA 101, 11.5.

8.3.2. A SINGLE EXIT MAY BE PROVIDED UNDER BOTH OF THE FOLLOWING CONDITIONS:

8.3.2.1. THE MAXIMUM OCCUPANT LOAD OF THE SPACE SERVED IS 49 FOR GROUP A, M, FIRST STORY ABOVE

8.3.2.2. THE COMMON PATH OF EGRESS TRAVEL DOES NOT EXCEED 75 FEET FOR GROUP A, M W/O SPRINKLER SYSTEM

8.4.DEAD-END LIMITATIONS 8.4.1. WHERE MORE THAN ONE EXIT OR EXIT ACCESS DOORWAY IS REQUIRED, THE DEAD-END LIMITATION IS 20

FEET W/O SPRINKLER SYSTEM 8.4.2. THE LENGTH OF A DEAD-END CORRIDOR SHALL NOT BE LIMITED WHERE THAT LENGTH IS LESS THAN 2.5

TIMES THE LEAST WIDTH OF THE DEAD-END CORRIDOR 8.6. EXIT ACCESS TRAVEL DISTANCE LIMITATION: 250 FEET FOR GROUP A,M. 8.7. ILLUMINATION OF MEANS OF EGRESS - PROVIDE ILLUMINATION FOR ALL MEANS OF EGRESS, INCLUDING THE

EXIT DISCHARGE. 8.8.EMERGENCY LIGHTING - IN THE EVENT OF A FAILURE OF NORMAL POWER, MEANS OF EGRESS ILLUMINATION SHALL BE MAINTAINED BY EMERGENCY POWER (FOR NOT LESS THAN 90 MINUTES)

IN THE FOLLOWING AREAS: 8.8.1. AISLES IN ROOMS AND SPACES THAT REQUIRE TWO OR MORE MEANS OF EGRESS.

8.8.2. CORRIDORS, EXIT ENCLOSURES, AND EXIT PASSAGEWAYS IN BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS.

8.9.MARKING OF MEANS OF EGRESS - PROVIDE APPROPRIATE EXIT SIGNAGE AT ALL EXITS AND EXIT ACCESS DOORS. ACCESS TO EXITS SHALL BE MARKED BY READILY VISIBLE EXIT SIGNS WHERE THE EXIT OR EXIT PATH IS NOT IMMEDIATELY VISIBLE TO THE OCCUPANTS. EXIT SIGNS

SHALL BE PLACED IN CORRIDORS SUCH THAT NO POINT IN THE CORRIDOR IS MORE THAN 100 FEET OR THE LISTED VISIBILITY DISTANCE OF THE SIGN. FROM THE NEAREST SIGN. 8.9.1. EXIT SIGNS ARE NOT REQUIRED IN ROOMS OR AREAS THAT REQUIRE ONLY ONE EXIT OR EXIT ACCESS.

8.10 DOORS MINIMUM WIDTH: 32 INCHES MIN. CLEAR, BETWEEN THE DOOR AND FACE STOP (PER SECTION 1010.1.1)

REQ'D WIDTH PER OCCUPANT: 0.2" PER OCCUPANT (NON-SPRINKLERED) MINIMUM HEIGHT: 6'-8" MIN DIRECTION OF SWING: IN DIRECTION OF EGRESS WHERE THERE ARE 50 OR MORE OCCUPANTS

PROJECTIONS INTO CLEAR WIDTH: MAX 4" AT HEIGHT ABOVE GROUND OF 34" TO 80" 8.11 POSTING OF OCCUPANCY LOAD

ASSEMBLY OCCUPANCY OF 50 OR MORE SHALL HAVE THE OCUUPANCY LOAD POSTED IN NEAR MAIN EXIT OR EXIT ACCESS DOORWAY.

EGRESS COMPONENTS (ETD) EVIT ACCESS TDAVEL DISTANCE (1016.1)

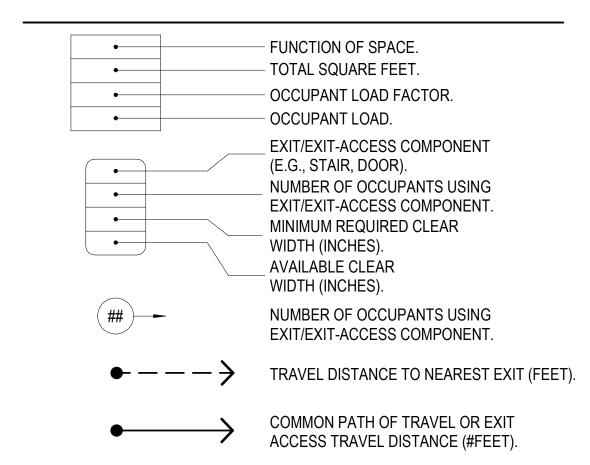
(ETD) EXIT ACCESS TRAVEL DISTANCE (1016.1)	250'-0" GROUP A, M	PROVIDED: TBD"
DEAD END CORRIDORS (NOT SPRINKLED)	20'-0" MAX	PROVIDED: N/A
NUMBER OF EXITS AT COTTAGE 1	1 REQUIRED	PROVIDED: 1
NUMBER OF EXITS AT COTTAGE 2	1 REQUIRED	PROVIDED: 2
NUMBER OF EXITS AT THE BARGE	1 REQUIRED	PROVIDED: 1
(DIED EXTENDING LEGG THAN 450FT FDOM CHODE NED	N 101 11 E)	

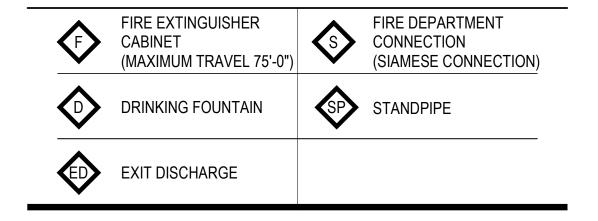
(PIER EXTENDING LESS THAN 150FT FROM SHORE, NFPA 101, 11.5)

MINIMUM CORRIDOR WIDTH 44 INCHES

LIFE SAFETY PLAN SYMBOL DESIGNATIONS

(SYMBOLS ONLY- SEE LIFE SAFETY PLANS FOR ACTUAL INFORMATION)





OCCUPANCY CALCULATIONS

BUILDING OCCUPANCY BY AREA					
OCCUPANCY TYPE	AREA	OCCUPANT LOAD	NOTES		
TOP OF DECK					
A-3	175 SF	25			
A-3	175 SF	25			
A-3	1,155 SF	77			
M	143 SF	3			
MEZZANINE					
	80 SF		UNOCCUPIED		
	232 SF		UNOCCUPIED		
Grand total	1,960 SF	130			

44 Canal Center Plaza, Suite 100 Alexandria, Virginia 22314 Telephone 703.836.7766

> **STRUCTURE** ADTEK ENGINEERS. INC 150 S. EAST STREET SUITE 201 FREDERICK, MD 21701

CIVIL/MARINE **MOFFATT & NICHOL** 4700 FALLS OF NEUSE ROAD SUITE 300 RALEIGH, NC 27609 (919) 78-4626

PROJECT: **JOHN WARNER** MARITIME HERITAGE **CENTER**

RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA



AGENCY: TALL SHIPS PROVIDENCE **FOUNDATION**

I HEREBY CERTIFY THAT THIS PLAN, ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA

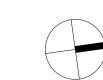


\triangle NO	DESCRIPTION	DATE
	PERMIT SET	04/02/2021
	PRICING SET	04/16/2021
1	PERMIT REV #1	05/11/2021
2	PERMIT REV #2	09/15/2021
	ISSUANCE HISTORY - THIS	SHEET
шсл.		35-015-00
HGA I	NU. ZI	33-013-00

LIFE SAFETY

APRIL 02, 2021

PERMIT SET



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2015 (ECC Energy Code Project Title: Tall Ships Foundation Location Alexandria, Virginia Climate Zone: Project Type: New Construction Vertical Gazing / Wall Area: 18%

Construction Site: Owner/Agent. Alexandria, VA 22314 Claire Sassin Tall Ships Foundation

Dasigner/Coreractor. 44 Canal Center Plaza Suite 100 Alexandria, VA 22314 703.317.6024

Reduced interior lighting power. Requirements are implicitly enlarced within micror lighting allowance calculations.

Alexandria VA 22314

Building Area	Floor Area
1-Cottage 1 (Museum) ; Nonresidential	360
2-Cottage 2 (Museum) : Nonresidential	384

Envelope Assemblies

Additional Efficiency Package(s)

Assembly	Gross Area	Cavity	Cont.	Proposed	Budget U-
	or Perimeter	R-Value	R-Value	U-Factor	Factorio
Roof 1: Attic Roof with Wood Joists. [Bldg. Use 1 - Cattage 1)	380	38.0	0:0	0.027	0.027
Roof 2: Attic Roof with Wood Joists: [Blog. Lise 2 - Gattage 2]	384	38.0	0.0	0.027	0.027
Floor 1: Wood-Framed, [Bldg: Use 1 - Cottage 1]	380	31.5	0.0	0.032	0.032
Floor 2: Wood-Framed, (Bldg: Use 1 - Cottage 1)	384	31.5	0.0	0.032	0.033
NORTH					
Exterior Wall 1: Wood-Framed, 16" d.c., [Bldg. Use 1 - Cattage 1]	205.	210	0.0	0.082	0.084
Door 1: Glass (> 50% glazing) Nonmetal Frame, Entrance Door Pert Specs : Product ID Peta: SHGC 0.35, PF 0.06, (Bidg, Use 1 - Cortage 1) (b)	75			0,250	0,770
Exterior Wall 5: Wood-Framed, 16" d.c., [Bldg. Use 2 - Cottage 2)	150	21.0	0.0	0,082	0.084
Window 2: Wood Frame Operable, Part Specs: Product ID Palie, SHGC (I 35, [Bidg, Use 2 - Cottage 2] (b)	11		-	0,250	0,450
Door 4: Glass (> £0% glazing) Nonmetal Frame, Entrance Door, Perf Specs : Product ID Pella, SHGC 0:35, [Bidg: Use 2 - Cottage 2] (b)	25	-	-	0,250	0.770
EAST					
Exterior Wall 2: Wood-Framed, 16" o.c. [Bldg. Use 1 - Cottage 1]	172	21.0	0.0	0.082	0.084
Door ≥ Glass (> 50% glazing) Nonnietal Frame, Non-Entrance Door, Perf. Specs, Product ID Pella, SHGC 0.35, PF 0,06, (Bleg, Use 1 - Cottage 1) (b)	76		-	0,250	0.450
Exterior Wall 6: Wood-Framed, 16' o.c. [Blog. use 2 - Cottage 2]	228	21.0	0:0	0.082	0.084
Door 5. Glass (> 50% glazing) Nonmetal Frame, Entrance Door, Perf Specs : Product ID Pella, SHGC 0.35, [Bidg. Use 2 - Cottage-2] (b)	25	-	-	0,250	0.770

# & Reg.10	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C303.2.1 (FO6)	Exterior insulation protected against damage, sunlight, moisture, wind,	Complies Does Not	Requirement will be met.
fandscaping and equipment maintenance activities	Not Observable		
		Complies Does Not	Exception: Requirement does not apply
	space being heated.	Not Observable	See the Envelope Assembles table for values

Additional Comm	ents/Assumptions

Project Fitte: Tall Strips Foundation

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	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Factoria.
SOUTH TO THE RESERVE THE RESER	and the contract of	Series.	0.0	o into	0.001
Exterior Wall 3, Wood-Framed, 16° a.c., [Bldg. Use 1 - Co Window 1: Wood Frame Fixed, Perf. Spaces: Product ID) 0.35, PF 0.66, [Bldg. Use 1 - Cottage 1] (b)		21.0	0.0	0.062	0.064 0.360
Exterior Wall 7 Wood Framed, 16" a.c., [Blog, Use 2 - Co	oltage 27 150	21.0	0.0	0.062	0.064
WEST					
Exterior Wall 4, Wood Framed, 16" o.c., [Bldg: Use 1 - Co	oltage 1) 172	21.0	0.0	0.062	0.064
Door 3: Insulated Metal. Swinging, (Bldg. Use 1 - Cottage	50	(84)	×	0.077	0.610
Exterior Wall 8. Wood Framed, 16" o.c., [Bldg: Use 1 - Co	oltage 1) 228	21.0	0.0	0.062	0.064
Window St Viny/Fiberglass Frame:Operable, Perf. Specs Pella, SHGC 0:35, [Bidg. Lise 1 - Cottage 1] (o)	Product ID 19		×.	0.250	0.450
	THE STATE OF THE S				
(a) Budget U-lactors are used for software baseline ca (b) Fenestration product performance must be certified Envaloge PASSES: Design 39% better than	d in accordance with NFRC and re			entation	
	d in accordance with NFRC and re			entation	
(i)) Fenestration product performance must be certified Envalope PASSES: Design 39% better than	d in accordance with NFRC and re code esign represented in this docu th this permit application. The	equires supp irnent is co proposed	orting docum nsistent with envelope sy	n the building	peen
(f) Fenestration product performance must be certified Envelope PASSES: Design 39% better than Envelope Compliance Statement Compliance Statement: The proposed envelope de specifications, and other calculations submitted wit designed to meet the 2015 IECC requirements in Compliance.	d in accordance with NFRC and re code esign represented in this docu th this permit application. The	equires supp irnent is co proposed	orting docum nsistent with envelope sy	n the building	peen

Project Little	Tall Stres Foundation	Report date: 04/02/21
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Section # & Reg.10	Framing / Rough-In Inspection	Complies?	Comments/Assumptions
C303 1,3 FR12 ²	Fenestration products rated in accordance with NFRC	Complies Does Not Not Observable Not Applicable	Requirement will be met. Location on plans/spect See window types, A402.
C303.1.3 [FR13] ^L	Fenestration products are certified as to performance labels or certificates provided.	Complies Does Not Not Observable Not Applicable	Requirement will be met. Location on plans/spect See window types, 4402.
0402.4,3 FR10J ^k	Vertical fenestration SHGC value.	Coroplies Does Not Not Observable Not Applicable	See the Envelope Assembles lame for values
0402 4.3, C402.4.3 4 (FR8) ³	Vertical fenestration U-Factor.	Complies Does Not Not Observable Not Applicable	See the Envelope Assembles have for values
C402 4.4 [FR14]*	U-factor of spaque doors associated with the building thermal envelope meets requirements.	Complies Occes Not Not Conservable Not Applicable	See the Envelope Assemblies (altre for yelloes,
2,1	The building envelope contains a continuous air barner that is sealed in an approved manner and material permeability <= 0.004 dfnvft2. Air parrier penetrations are sealed in an approved manner.	Complies Does Not Not Coservable Not Applicable	Requirement will be met Location on plans/spect See wall sections and detail sections: A420s and A430s sheets
C402,5.2, CA02,5.4 [FR18]	Factory-built fenestration and doors are labeled as meeting air leakage requirements.	Complies Does Not Not Observable Not Applicable	Requirement will be met
C402,5,7 [FR17]	Vestibules are installed on all building entrances. Doors have self-closing devices.	Complies Does Not Not Observable	Exception: Doors that open directly from a space = 3000 ft2

Additional Comments/Assumptions:

		Annual Control of the
1 High Impact (Tier 1)	Z Medium Impact (Tier 2)	3 Low Impact (Tier 3)

COMcheck Software Version 4.1.5.1

Energy Code: 2015 IECC

Requirements: 85.0% were addressed directly in the COMcheck software Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Reg.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 (PR1) ¹	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the Standard are claimed.	Ocomplies Oboes Not ONos Observable ONos Applicable	Requirement will be met. Location on plans/spec: See drawings submitted.
(402.4.1 [PR10] ¹	The vertical fenestration area <= 30 percent of the gross above-grade wall area.	Complies Does Not Not Observable Not Applicable	Requirement will be met Location on plans/spec: See window to wall area calculation A402
C402.4.1 PR11 ¹	The skylight area <- 3 percent of the gross roof area	Complies Does Not Not Observable Not Applicable	Requirement will be met
C402.4.2 (PR14) ¹	In enclosed spaces > 2,500 ft2 directly under a roof with ceiling heights >15 ft. and used as an office, lobby, atrium, concourse, corridor, storage, gymnasium/exercise center, convention center, automotive service, manufacturing, non-refrigerated warehouse, retail store distribution/sorting area, transportation, or workshop, the following requirements apply: (a) the daylight zone under skylights is >= half the floor area; (b) the skylight area to daylight zone is >= 3 percent with a skylight offective aperture >= 1 percent.	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply
C406 [PR9] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	Complies Does Not Not Observable Not Applicable	Requirement will be met Location on plans/speci M002

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Tall Ships Foundation Report date: D4/02/21 Data filename N:\2100\2135\015-00\04 Work\Shared\Tall Ships.cck Page 3 of 10

Section # & Reg.IO	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.5,5, C403.2.4. 3 [ME3] ²	Stair and elevator shaft vents have motorized dampers that automatically close.	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply
C402.5.5. C403.2.4.	Outdoor air and exhaust systems have motorized dampers that automatically		Exception: Gravity dampers acceptable in systems with outside or exhaust air flow rates less than 300 cfm
ME581	shut when not in use and meet maximum leakage rates, Check gravity dampers where allowed.	Not Observable	Location on plans/speci Refer to Mechanical Orawings

1 High Impact (Tier 1) Z Medium Impact (Tier 2) 3 Low Impact (Tier 3)

44 Canal Center Plaza, Suite 100 Alexandria, Virginia 22314 Telephone 703.836.7766

> STRUCTURE ADTEK ENGINEERS. INC 9990 FAIRFAX BLVD #300 FAIRFAX, VA 22030 (703) 691-4040

CIVIL/MARINE MOFFATT & NICHOL 4700 FALLS OF NEUSE ROAD SUITE 300 RALEIGH, NC 27609 (919) 78-4626

PROJECT: **JOHN WARNER** MARITIME HERITAGE **CENTER**

RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA



AGENCY: TALL SHIPS PROVIDENCE **FOUNDATION**

•	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED B ME OR UNDER MY DIRECT SUPERVISION AND T I AM A DULY LICENSED ARCHITECT UNDEF
	THE LAW PARTY OF THE CANADA COLOR OF THE CANAD
	JAMES W. SCRUGGS JR. Lic No. 0401017843
	Jim

DATE: APRIL 2, 2021 REGISTRATION NUMBER:

$\overline{\wedge}$ NO	DESCRIPTIO	N DATE		
	<u> </u>			
		THE OUTET		
HGA NO:				
		2135-015-00		

COMCHECK **ENVELOPE** COMPLIANCE **REPORT**

DATE: APRIL 2, 2021

PERMIT SET

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1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) Project Title: Tall Stops Foundation

Data filename N-12100/2135/015-00/04 Work/Shared/vall Ships cck

Report date: D4/02/21

Page 1 of 10

Project Fitte: Tall Ships Foundation Data filename N-12100\2135\015-00\04 Work\Shared\Tall Ships.cck

Project Title: Tall Stups Foundation Data filename W:\2100\2135\015-00\04 Work\Shared\vall Ships cck

Section # & Reg.ID	Insulation Inspection	Complies?	Comments/Assumptions
C303 1 [IN3] ¹	Roof insulation installed per manufacturer's instructions. Blown or coured loose fill insulation is installed only where the roof slope is <=3 in 12.	Complies Does Not Not Observable Not Applicable	Requirement will be met. Location on plans/spec; See Wall sections and detail sections; A420s and A430s sheets
(1N10)- C303 I	Building envelope insulation is labeled with R-value or insulation tertificate providing R-value and other relevant data.	Complies Does Not Not Observable Dos Applicable	Requirement will be met
C303,2 [IN7] ²	Above-grade well insulation installed per manufacturer's instructions	Complies Does Not Not Observable Dos Applicable	Requirement will be met: Location on plans/spect See wall sections and detail sections: A420s and A430s sheets
C303.2. C402.2 a [IN9] ²	floor insulation installed per manufacturer's instructions. Cavity or structural slab insulation installed in permanent contact with underside of decking or structural slabs.	Complies Does Not Not Observable Not Applicable	Requirement will be met: Location on plans/spec: See wall sections and detail sections; A420s and A430s sheets
C303.2.1 (IN14) ²	Exterior insulation is protected from damage with a protective material. Verification for exposed foundation insulation may need to occur during Foundation inspection.	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply Location on plans/spec; See wall sections and detail sections; A420s and A430s sheets
(402.2.1 Insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement compliant if insulation is installed accordingly.		Complies Does Not Not Observable Not Applicable	Requirement will be met: Location on plans/spec: See wall sections and detail sections; A420s and A430s sheets
C104 (IN6) ¹	Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	Complies Does Not Not Observable Not Applicable	See the Envelope Assemblies lattie for values,
Installed floor insulation type and R- INBP value consistent with insulation specifications reported in plans and COMcheck reports.		Ocomplies Opes Not Not Observable Not Applicable	See the Envelope Assemblies lattle for values.
C402.2.6. [IN18]	Radiant panels and associated components, designed for heat transfer from the panel surfaces to the occupants or indoor space are insulated with a minimum of R-3.5.	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply
C104 [IN2] ¹			See the Envelope Assembles fathe for values.
C402.5.1. 1 [INI]	All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.	Complies Does Not Not Observable Not Applicable	Requirement will be met Location on plans/spec: See wall sections and detail sections: A420s and A430s sheets

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Tall Ships Foundation Data filename N-12100\2135\015-00\04 Work\Shared\Tall Ships.cck Report date: D4/02/21 Page 7 of 10 1 High Impact (Tier 1) 7 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Tall Steps Foundation Data filename W:\2100\2135\015-00\04 Work\Shared\\all Ships cck

Report date: D4/02/21 Page 3 of 10 1 High Impact (Tier 1) Z Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Tall Ships Foundation Data filename N:\2100\2135\015-00\04 Work\Shared\Tall Ships.cck Report date: 04/02/21 Page 9 of 10

Comments/Assumptions Complies? 6 Reg.10

C407.5.3 Where open combustion air ducts provide combustion air to open combustion fuel burning appliances. The appliances and combustion air large appliances and combustion air large applicable. & Reg.la Final Inspection Exception: Requirement is not applicable. building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms are sealed and insulated. Exception: Requirement does not apply Not Coservable (1402.5.II Recessed luminaires in thermal Complies (FI26) envelope to limit infiltration and be IC Coses Nor Requirement will be met Not Operryable Location on plans/spect Refer to Electrical Drawings rated and labeled. Seal between interior finish and luminaire housing

C402 5.6 Weatherseals installed on all loading Complies.

[Fi37] dock cargo doors.

Additional Comments/Assumptions:

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> STRUCTURE ADTEK ENGINEERS. INC 9990 FAIRFAX BLVD #300 FAIRFAX, VA 22030 (703) 691-4040

CIVIL/MARINE **MOFFATT & NICHOL** 4700 FALLS OF NEUSE ROAD SUITE 300 RALEIGH, NC 27609 (919) 78-4626

PROJECT: **JOHN WARNER MARITIME HERITAGE CENTER**

RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA



AGENCY: TALL SHIPS PROVIDENCE **FOUNDATION**

DATE: APRIL 2, 2021 REGISTRATION NUMBER:

 \triangle NO DESCRIPTION DATE ISSUANCE HISTORY - THIS SHEET HGA NO: 2135-015-00

> COMCHECK **ENVELOPE** COMPLIANCE **REPORT**

DATE: APRIL 2, 2021

PERMIT SET



GENERAL NOTES - SITE PLAN

- A. REFER LANDSCAPE SHEETS FOR INFORMATION ON ARCHITECTURAL SITE IMPROVEMENT WORK.
- B. PROVIDE TEMPORARY BARRIERS AND ENCLOSURES AS REQUIRED TO PROTECT MATERIALS AND PEOPLE. PREVENT DUST, FUMES, AND ODORS FROM ENTERING OCCUPIED AREAS. MAINTAIN AND RELOCATE TEMPORARY BARRIERS AND ENLOSURES AS REQUIRED BY THE PROGRESS OF THE WORK. REMOVE TEMPORARY BARRIERS AND ENCLOSURES AT COMPLETION OF WORK.
- C. REFER TO DISCPLINE-SPECIFIC DRAWINGS FOR RELATED SITE, BUILDING MECHANICAL, PLUMBING, AND ELECTRICAL SITE WORK.

SITE PLAN LEGEND

SEE A010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

EXIT DISCHARGE

DRINKING FOUNTAIN

D

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STRUCTURE

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Alexandria, Virginia 22314

Telephone 703.836.7766

CIVIL/MARINE MOFFATT & NICHOL 4700 FALLS OF NEUSE ROAD SUITE 300 RALEIGH, NC 27609 (919) 78-4626

KEYNOTES

_		
	#	DESCRIPTION
	S1	6'-0" x 67-0' ALUM GANGWAY BY OTHER
	S2	GANGWAY LANDING BY OTHER
	S3	PIERHEAD LINE
	S5	STANCHION ON BARGE DECK
	S6	SLIDING GATE, OPEN DURING BUSINESS HOUR
	S7	ALUMN RAILING TYP.
	S8	DECK CLEAT TYP. BY OTHER
	S9	ANCHORED STEEL PILES TYP. BY OTHER
	S10	MECHANICAL ENCLOSURE
	S11	DECK CANNON BY OWNER, TYP.

S12 FLOOR ACCESS HATCH 3'-6" x 3'-6"

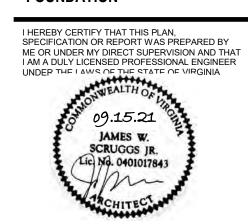
PROJECT:

JOHN WARNER MARITIME HERITAGE CENTER

RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA



AGENCY: TALL SHIPS PROVIDENCE FOUNDATION



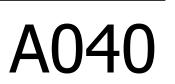
\triangle NO	DESCRIPTION	DATE
	PERMIT SET	04/02/202
	PRICING SET	04/16/202
2	PERMIT REV #2	09/15/202
	ISSUANCE HISTORY - THIS	S SHEET
HGA		35-015-(

ARCHITECTURAL SITE PLAN

DATE: APRIL 02, 2021

PERMIT SE





99'-11"

(3.2)

(3.4)

GENERAL NOTES - FLOOR PLAN

- A. ALL INTERIOR PARTITIONS SHALL BE "A4_" UNLESS NOTED OTHERWISE.

 B. PLAN DIMENSIONS ARE FROM FACE OF FINISH WHERE "HOLD" OR "CLEAR" ARE INDICATED. ALL OTHER PLAN DIMENSIONS ARE FROM FACE OF STUD AND DO NOT INCLUDE APPLIED FINISHES.
- C. ENSURE FINISH SURFACES ARE FLUSH AND SEAMLESS WHERE PARTITIONS AND/OR FURRING ARE COPLANAR.
- D. ALL PIPING, CONDUITS AND RELATED MECHANICAL AND ELECTRICAL ITEMS SHALL BE CONCEALED WITHIN PARTITION/WALL ASSEMBLY IN FINISHED AREAS UNLESS NOTED OTHERWISE.
- E. PROVIDE BACKING/BLOCKING TO SUPPORT ALL WALL-MOUNTED ITEMS.
 F. ALL MECHANICAL EQUIPMENT PADS TO BE 4" HIGH MINIMUM, UNLESS NOTED OTHERWISE. SIZE OF PADS TO BE VERIFIED BY CONTRACTOR

KEYNOTES

DESCRIPTION

(3)

"	52001\li 11011
F5	FIRE EXTINGUISHER AND CABINET
F6	LINE OF OVERHANG ABOVE, SEE REFLECTED CEILING PLAN
F15	STANCHION ON BARGE DECK
F16	SLIDING GATE, OPEN DURING BUSINESS HOUR
F17	ALUMN RAILING TYP.
F18	DECK CLEAT TYP. BY OTHER
F19	ANCHORED STEEL PILES TYP. BY OTHER
F20	REFER TO A600 FOR TYPICAL MOUTING HEIGHT
F21	THE GRINDER PUMP AND EJECTOR BASIN BELOW, REFER TO
	PLUMBING AND CIVIL
F22	BARGE INSPECTION ACCESS, TYP.
F23	6'-0" x 67-0'ALUM GANGWAY BY OTHER
F24	FIXED WOOD ALUMINUM CLAD DOOR TYP.
F25	MECHANICAL ENCLOSURE
F26	FLOOR ACCESS HATCH 3'-6" x 3'-6"
F27	DISPLAY WITH DIMABLE LIGHT
F28	3'-0"x3'-0" RECESSED ACCESS PANEL WITH [SDG-3] FINISH TO
	MATCH ADJACENT

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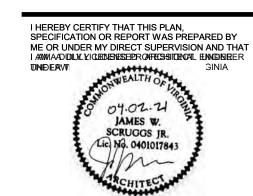
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PROJECT:
JOHN WARNER
MARITIME HERITAGE
CENTER

RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA



AGENCY:
TALL SHIPS PROVIDENCE
FOUNDATION



DATE: APRIL 2, 2021
REGISTRATION NUMBER:

NO DESCRIPTION DATE

PERMIT SET 04/02/2021

PERMIT SET 04/02/2021

ISSUANCE HISTORY - THIS SHEET

HGA NO: 2135-015-00

FLOOR PLAN -MAIN LEVEL

DATE: APRIL 2, 2021

PERMIT SE



GENERAL NOTES - FLOOR PLAN

- A. ALL INTERIOR PARTITIONS SHALL BE "A4_" UNLESS NOTED OTHERWISE.

 B. PLAN DIMENSIONS ARE FROM FACE OF FINISH WHERE "HOLD" OR "CLEAR" ARE INDICATED. ALL OTHER PLAN DIMENSIONS ARE FROM FACE OF STUD AND DO NOT INCLUDE APPLIED FINISHES.
- C. ENSURE FINISH SURFACES ARE FLUSH AND SEAMLESS WHERE PARTITIONS AND/OR FURRING ARE COPLANAR.
- D. ALL PIPING, CONDUITS AND RELATED MECHANICAL AND ELECTRICAL ITEMS SHALL BE CONCEALED WITHIN PARTITION/WALL ASSEMBLY IN FINISHED AREAS UNLESS NOTED OTHERWISE.
- E. PROVIDE BACKING/BLOCKING TO SUPPORT ALL WALL-MOUNTED ITEMS.
 F. ALL MECHANICAL EQUIPMENT PADS TO BE 4" HIGH MINIMUM, UNLESS NOTED OTHERWISE. SIZE OF PADS TO BE VERIFIED BY CONTRACTOR

KEYNOTES

DESCRIPTION

R14 FUTURE KNOCKOUT OPENING - COORDINATE WITH STRUCTURAL

R15 MECHANICAL LOUVER W/ INSECT NET

HGA

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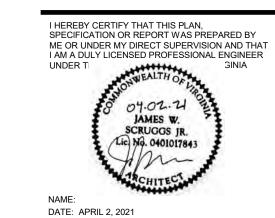
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PROJECT:
JOHN WARNER
MARITIME HERITAGE
CENTER

RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA



AGENCY:
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REGISTRATION NUMBER:

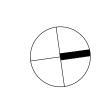
NO DESCRIPTION

	ISSUANCE I	HISTORY	- THIS	SHEET	
HGA NO:			2135-015-00		

FLOOR PLAN -MEZZANINE

DATE: APRIL 2, 2021

PERMIT SET



ROOF PLAN

GENERAL NOTES - ROOF PLAN

- REFER TO EXTERIOR ELEVATIONS FOR ROOF OVERHANG **DIMENSIONS** COORDINATE ALL ROOF PENETRATION WITH MECHINICAL
- AND PLUMBING DRAWINGS. C. PROVIDE PENETRATION DETAILS PER ROOFING MANUFACTURER AND/OR MECHANICAL/PLUMBING DRAWING DETAILS.
- SLOPE CRICKET TO DRAIN AROUND PENETRATIONS (VENTS, STACK, ETC) AND AT VALLEYS BETWEEN ROOF DRAINS.

KEYNOTES

DESCRIPTION R1 5" PREFINISHED ALUM OUTTER SEE ELEVATION
R3 TESLA SOLAR ROOF TILES
R6 ICE AND WATER SHIELD, 24" MIN FROM FACE OF EXTERIOR WALL

R16 2x4 DOWNSPOUT, DISCHARGED BELOW DECK

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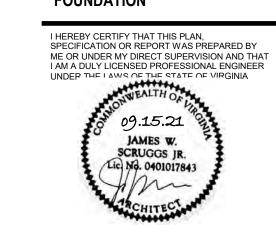
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PROJECT: **JOHN WARNER MARITIME HERITAGE** CENTER

RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA



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ROOF PLAN

DATE: APRIL 02, 2021

PERMIT SET



GENERAL NOTES - CEILING PLAN

- A. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR DEVICE AND FIXTURE INFORMATION.
- B. ACOUSTICAL CEILING GRID SHALL BE CENTERED IN ROOM(S) UNLESS NOTED OTHERWISE.
- C. CEILING HEIGHTS ARE DIMENSIONED FROM FLOOR DATUM ELEVATION TO FINISHED, UNLESS OTHERWISE NOTED.
- D. CENTER RECESSED LIGHTS, ELECTRICAL, & MECHANICAL DEVICES WHEN SHOWN IN CEILING TILES AND SIDING PANELS. PROVIDE ACCESS PANEL(S) AS REQUIRED. REVIEW LOCATION OF ACCESS PANEL(S) NOT SHOWN ON THE DRAWINGS WITH ARCHITECT PRIOR TO INSTALLATION.

	KEYNOTES	
#	DESCRIPTION	

RCP LEGEND						
SEE A010 F	OR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS					
	2x2 ACT; SEE PLAN FOR CEILING HEIGHTS					
	2x4 ACT; SEE PLAN FOR CEILING HEIGHTS					
	SHIPLAP PANLE CEILING - [SDG-3]					
	GYPSUM BOARD CEILING; SEE PLAN FOR CEILING HEIGHTS					
	2X2 LIGHT FIXTURE					
	2X4 LIGHT FIXTURE					
	1X4 LIGHT FIXTURE					
0	RECESSED DOWNLIGHT					
	COVE LIGHT					
	WALL WASHER					
	EXIT SIGN					
0 0	PENDANT LIGHT FIXTURE					
	LINEAR LIGHT FIXTURE					
ô	WALL SCONCE LIGHT FIXTURE					
	UNDERCABINET LIGHT FIXTURE					
-0-0-	TRACK LIGHT					
S	SMOKE DETECTOR - EXISTING					
S	SMOKE DETECTOR - NEW					
	RETURN GRILLE					
Ø	SUPPLY DIFFUSER					
	EXHAUST DIFFUSER					
<u>\$</u>	SPEAKER					
///	CURTAIN TRACK					
	SECURITY CAMERA					
	ACCESS PANEL					
+	START POINT OF CEILING GRID					
	SPOT ELEVATION					
•	POLE MOUNTED LIGHT FIXTURE					
	POST TOP LIGHT FIXTURE					

HGA

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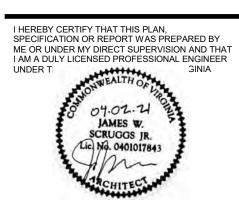
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PROJECT:
JOHN WARNER
MARITIME HERITAGE
CENTER

RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA



AGENCY:
TALL SHIPS PROVIDENCE
FOUNDATION



NAME:
DATE: APRIL 2, 2021
REGISTRATION NUMBER:

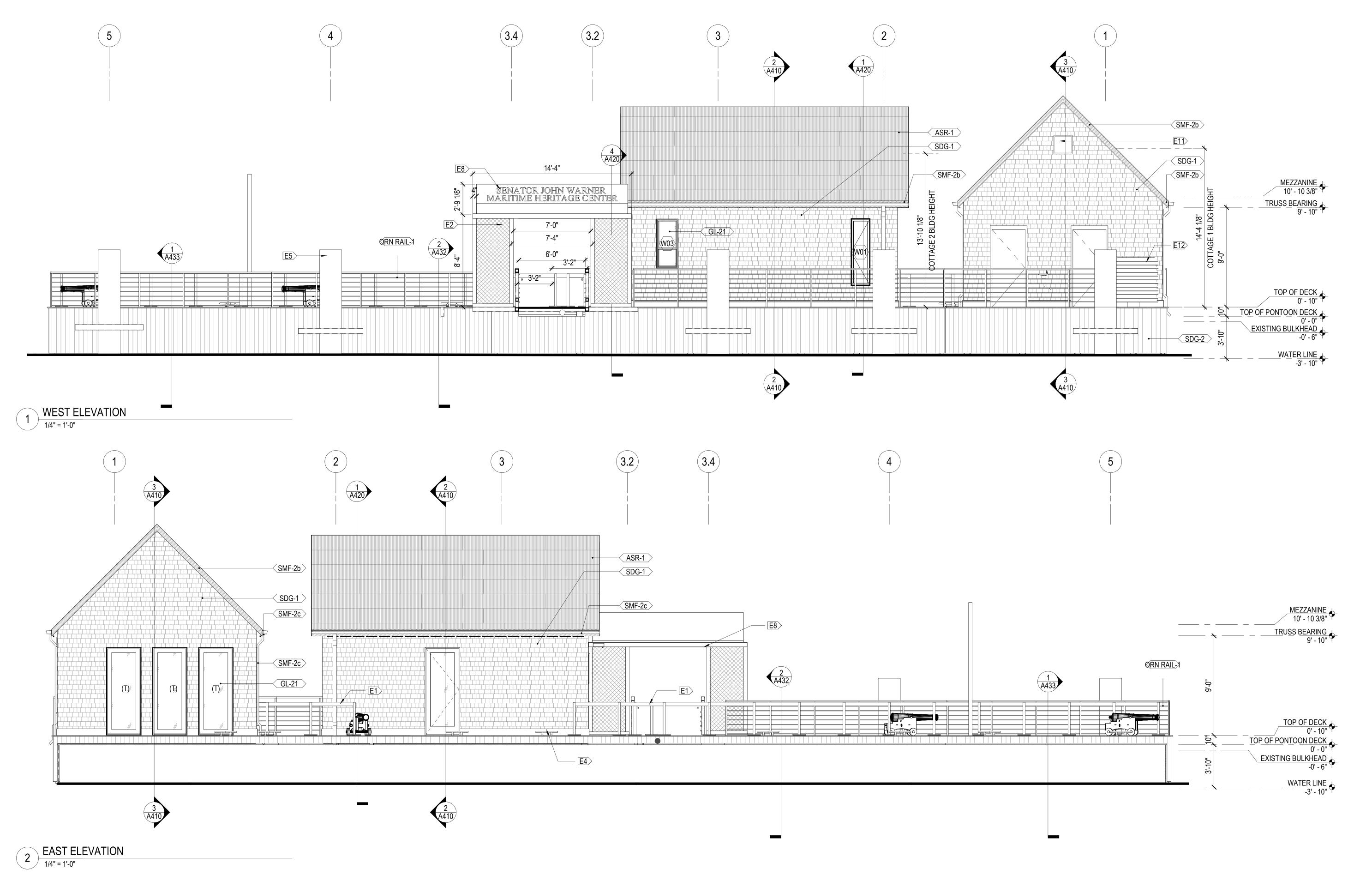
REFLECTED CEILING PLAN - MAIN LEVEL

DATE: APRIL 2, 2021

PERMIT S



A300



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PROJECT: **JOHN WARNER** MARITIME HERITAGE **CENTER**

RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA



AGENCY: TALL SHIPS PROVIDENCE FOUNDATION

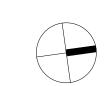
SPECIFICATION OR REPORT WAS PREPARED BY
ME OR UNDER MY DIRECT SUPERVISION AND THAT
I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE I AWS OF THE STATE OF VIRGINIA JAMES W. SCRUGGS JR. Lic No. 0401017843

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> **EXTERIOR ELEVATIONS**

DATE: APRIL 02, 2021

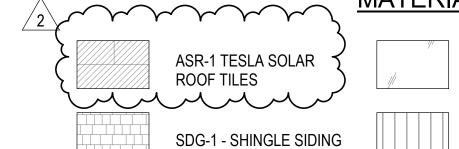
PERMIT SET



ELEVATIONS OF EXISTING FLOORS ARE BASED ON SURVEY INFORMATION AND \OR AS-BUILT DRAWINGS PROVIDED BY THE OWNER. THE SURVEY DATA MAY NOT BE COMPLETE AND THE ACTUAL EXISTING ELEVATIONS MAY VARY IN DIFFERENT PORTIONS OF THE EXISTING BUILDING. ALL INFORMATION MUST BE FIELD VERIFIED AND COORDINATED BETWEEN NEW AND EXISTING

CONSTRUCTION TO PROVIDE MATCHING FLOOR ELEVATIONS WHERE REQUIRED.

GENERAL NOTES - EXTERIOR ELEVATIONS



MATERIAL LEGEND **GL-1 CLEAR** INSULATED GLAZING

SDG-2 - VERTICAL SIDING

ARCHITECTURAL WOOD LOUVER

PREFINISHED METAL FASCIA &

ALUMINUM FABRICATION

E11 MECHINICAL INTAKE, REFER TO MECHNICAL DRAWINGS E12 WOOD SLAT MECHINICAL ENCLOSURE, REFER TO MECHNICAL DRAWINGS

E8 EXTERIOR SIGNAGE, CENTERED TO ENTRANCE GATE

E2 | SLIDING GATE, OPEN DURING BUSINESS HOUR

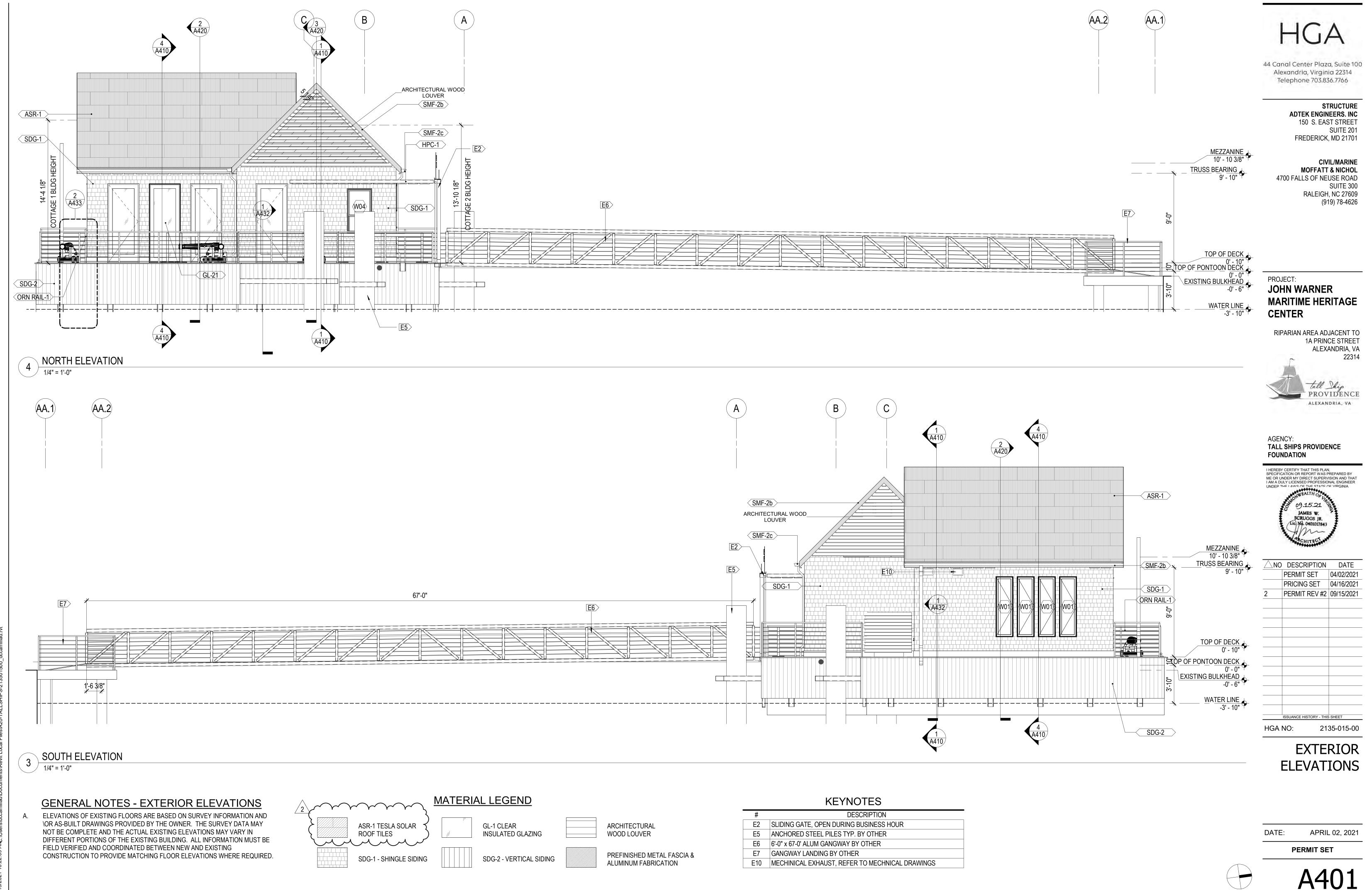
E5 ANCHORED STEEL PILES TYP. BY OTHER

E1 STANCHION ON BARGE DECK

E4 DECK CLEAT TYP. BY OTHER

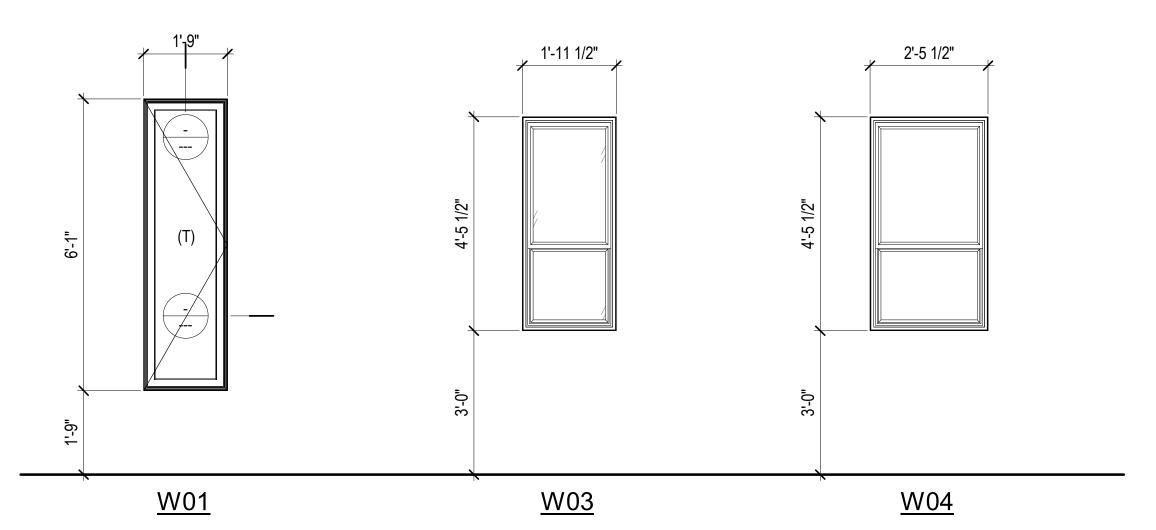
KEYNOTES

DESCRIPTION



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*(T): TEMPERED GLASS

NOTES:

- A. ALL EXTERIOR GLAZING SHALL BE **"GL_21"** UNLESS NOTED OTHERWISE.
- B. FENESTRATION PRODUCS ARE RATED IN ACCORDANCE WITH NFRC, BASIS OF DEISIGN PELLA RESERVE WOOD AND ALUM CLAD WINDOWS.
- C. PROVIDE LOW-E COATING ON NO. 2 SURFACE OF INSULATING GLASS UNITS, BASIS OF DESIGN
- ADVANCED LOW-E ON LOW IRON GLASS, SOLAR HEAT GAIN COEFFICIENT: 0.35, U VALUE: 0.25.

 D. VERTICAL FENESTRATION U-FACTOR MAXIMUM:
- OPERABLE FENESTRATION: U-0,45

ENTRANCE DOORS: U-0.77

WINDOW TYPE

WINDOW TYPE 1/2" = 1'-0"

A. ELEVATIONS OF EXISTING FLOORS ARE BASED ON SURVEY INFORMATION AND NOT AS-BUILT DRAWINGS PROVIDED BY THE OWNER. THE SURVEY DATA MAY NOT BE COMPLETE AND THE ACTUAL EXISTING ELEVATIONS MAY VARY IN

DIFFERENT PORTIONS OF THE EXISTING BUILDING. ALL INFORMATION MUST BE FIELD VERIFIED AND COORDINATED BETWEEN NEW AND EXISTING CONSTRUCTION TO PROVIDE MATCHING FLOOR ELEVATIONS WHERE REQUIRED.

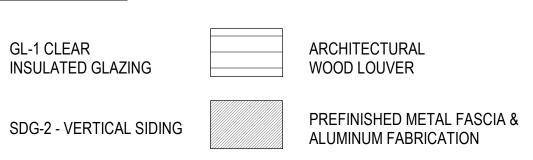
ASR-1 TESLA SOLAR ROOF TILES

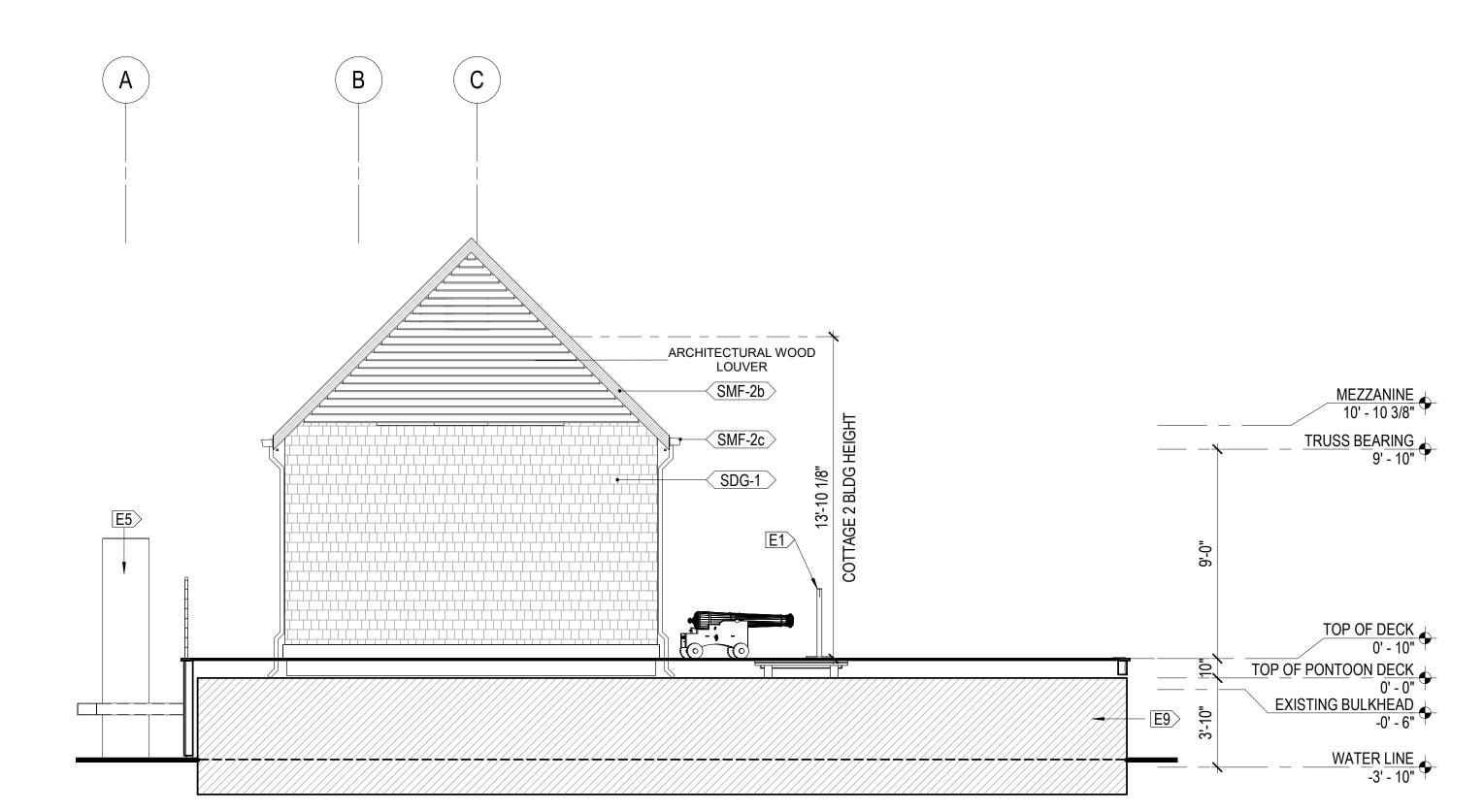
SDG-1 - SHINGLE SIDING

MATERIAL LEGEND

GL-1 CLEAR INSULATED GLAZING

SDG-2 - VERTICAL SID





2 COTTAGE 2 - SOUTH ELEVATION 1/4" = 1'-0"

WINDOW TO WALL AREA

							3/2	29/2021
		WAL	L(SF)			GLAZI	NG(SF)	
	NORTH	EAST	SOUTH	WEST	NORTH	EAST	SOUTH	WEST
COTTAGE 1	205	172	205	172	75	75	40	0
GRAND TOTAL (SF)				754				190
SUBTOTAL WINDOW TO WALL	37%	44%	20%	0%				
WINDOW TO WALL (%)				25%				
COTTAGE 2	150	228	150	228	36	25	0	19
GRAND TOTAL (SF)				756				80
SUBTOTAL WINDOW TO WALL	24%	11%	0%	8%				
WINDOW TO WALL (%)				11%				

KEYNOTES DESCRIPTION

E1 STANCHION ON BARGE DECK
E5 ANCHORED STEEL PILES TYP. BY OTHER

E9 POISEIDON PONTOON BARGE SYSTEM BY OTHER
 E12 WOOD SLAT MECHINICAL ENCLOSURE, REFER TO MECHNICAL DRAWINGS

HGA

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STRUCTURE
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FREDERICK, MD 21701

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PROJECT:
JOHN WARNER
MARITIME HERITAGE
CENTER

RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA



AGENCY:
Tall ships providence
Foundation

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF VIRGINIA

15.21

16.09.15.21

JAMES W.

SCRUGGS JR.

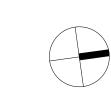
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	PRICING SET	•	04/16/202
2	PERMIT REV	#2	09/15/202
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HGA	NO:	213	35-015-0

EXTERIOR ELEVATIONS

DATE: APRIL 02, 2021

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PROJECT: **JOHN WARNER** MARITIME HERITAGE **CENTER**

RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA



AGENCY:
TALL SHIPS PROVIDENCE
FOUNDATION

SPECIFICATION OR REPORT WAS PREPARED BY
ME OR UNDER MY DIRECT SUPERVISION AND THAT
I AM A DULY LICENSED PROFESSIONAL ENGINEER

 \triangle NO DESCRIPTION DATE

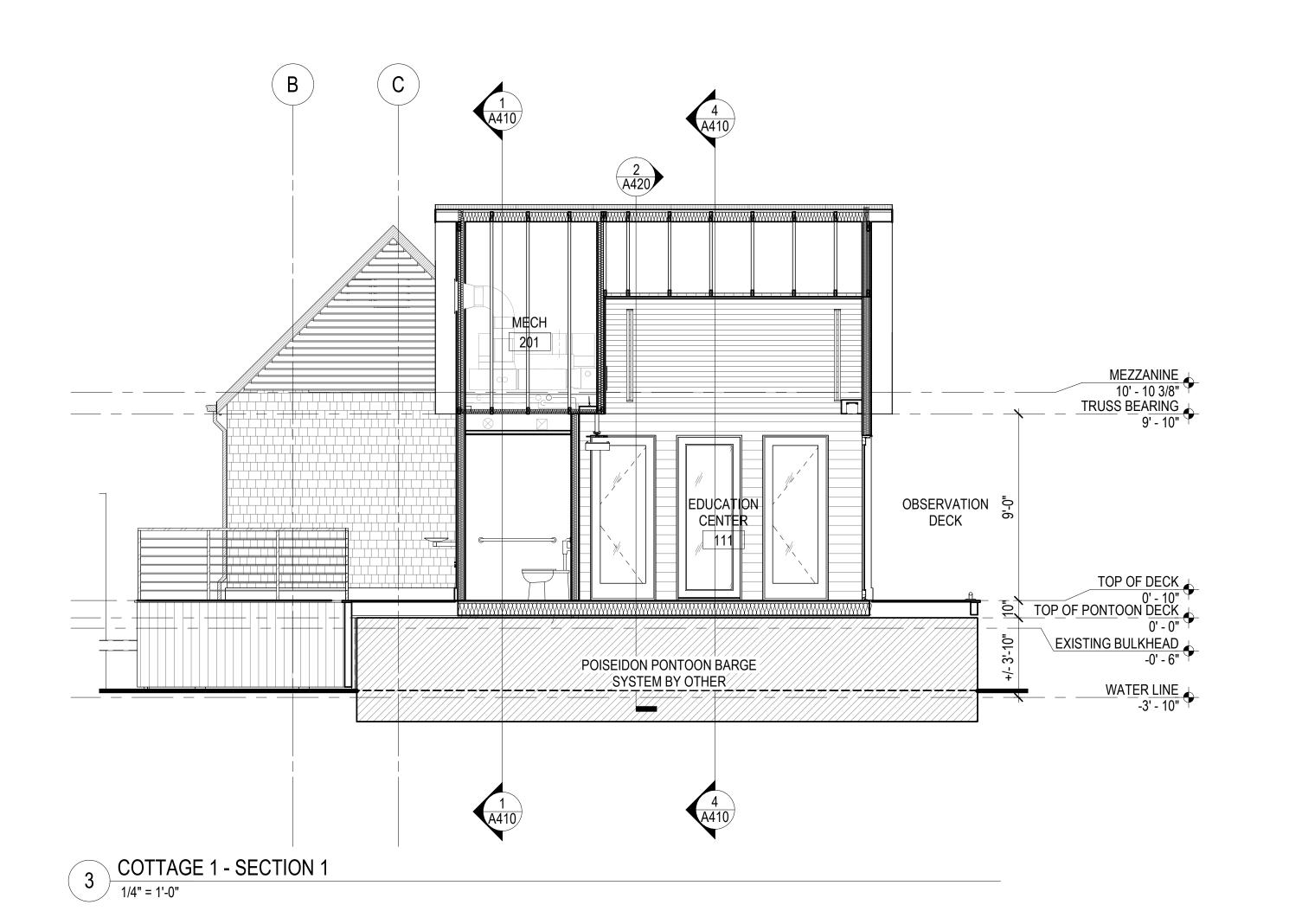
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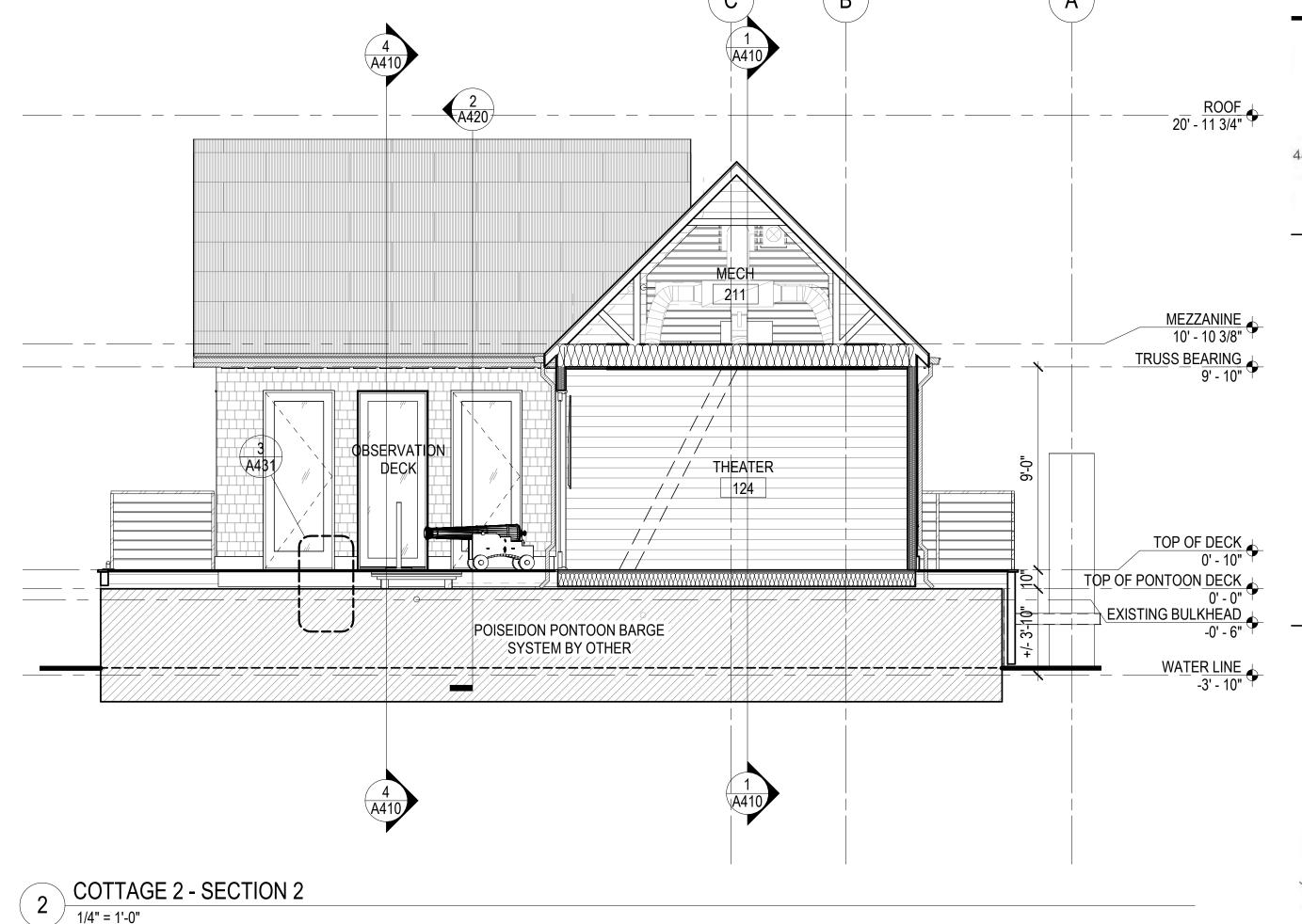
HGA NO: 2135-015-00

BUILDING **SECTIONS**

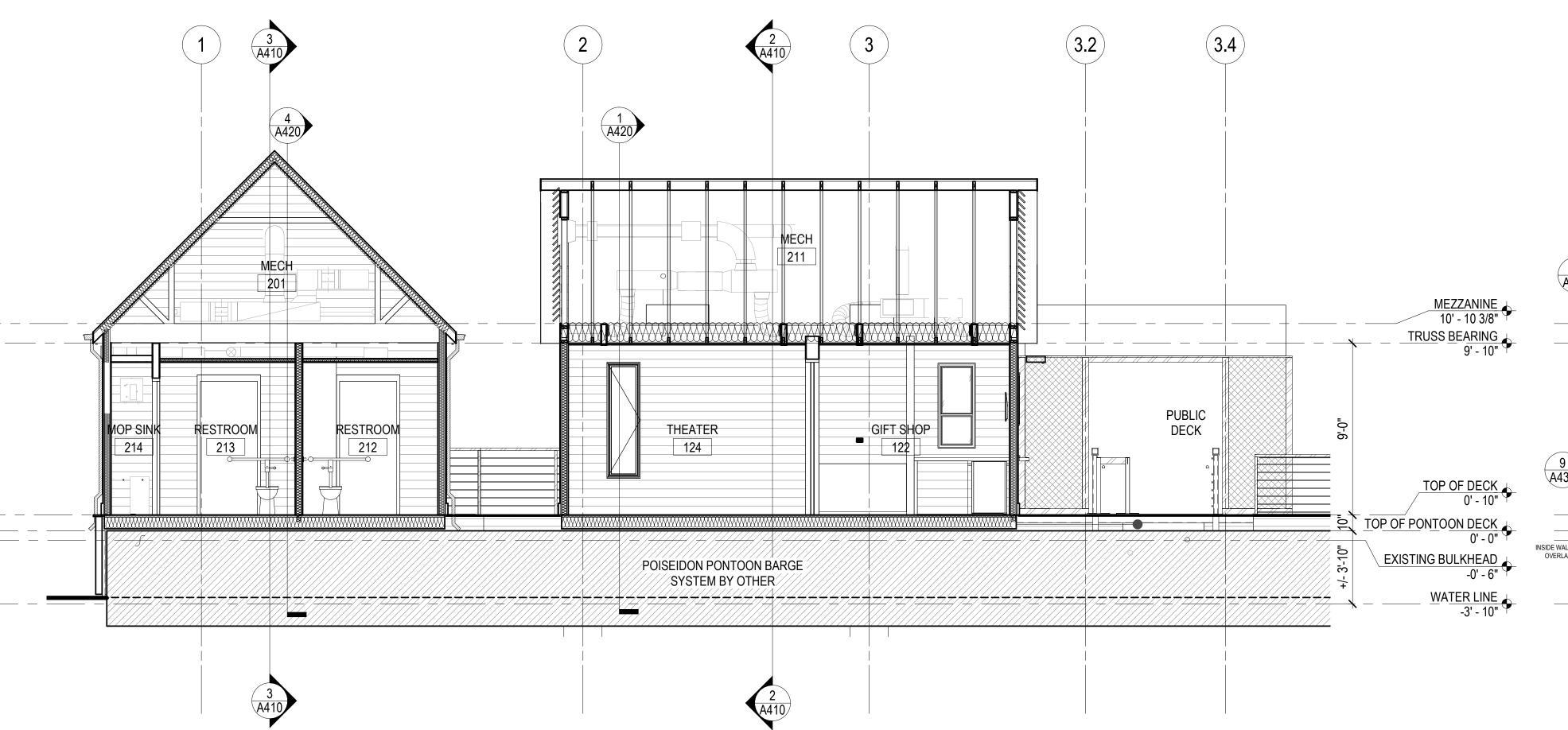
DATE: APRIL 2, 2021







1/4" = 1'-0"



A430 MEZZANINE 10' - 10 3/8" EDUCATION OBSERVATION CENTER 111 TOP OF DECK TOP OF PONTOON DECK INSIDE WALL
OVERLAP POISEIDON PONTOON BARGE SYSTEM BY OTHER XXXXXXXXXXXXX 4 COTTAGE 1 - SECTION 2

1/4" = 1'-0"

1 COTTAGE 1 & 2 - SECTION

1/4" = 1'-0"

KEYNOTES

05-002 STRUCTURAL STEEL ANGLE - SEE STRUCTURAL DRAWINGS FOR

05-019 12x4x3/16 HSS STEEL TUBE ATTCHED TO BUILDING 2X FRAME

07-005 R-21; 3"JOHNS MANSVILLE JM CORBOND III CLOSED-CELL SPRAY

07-006 R-38; 10 1/4" OWENS CORNING R-38C ECOTOUCH PINK FIBERGLAS

07-007 R-31.5; 4 1/2" JOHNS MANSVILLE JM CORBOND III CLOSED-CELL

07-008 R-38; 5 1/2"JOHNS MANSVILLE JM CORBOND III CLOSED-CELL

07-067 TESLA SOLAR ROOF TILES; VERIFY PROFILE AND LOADING

07-070 PREFINISHED ALUMINUM GUTTER AND DOWNSPOUT

08-001 FACTORY FINISHED ALUMINUM WOOD CLAD WINDOW 08-002 FACTORY FINISHED ALUMINUM WOOD CLAD DOOR

DEMANDS WITH TESLA; PROVIDE BLOCKING AS NEEDED

07-068 ICE AND WATER SHIELD; EXTEND ACROSS ALL SIDES OF ROOF A

MIN. OF 24" INBOARD OF EXT. FACE OF EXT. WALL SHEATHING

BLANKET INSULATION; VERIFY STC RATING AGAINST PROGRAM

05-020 | 1 1/2 x 1 1/2 HSS STEEL TUBE FRAME, 4'-0" O.C.

06-012 1X4 CONT. FASCIA BOARD WRAPPED IN ALUM.

06-011 2X8 CONT. PRESSURE-TREATED WOOD RIM BOARDS

MORE INFO

06-010 3/4" PLYWOOD / OSB SHEATHING

06-013 3/4" ROOF T&G PLYWOOD SHEATHING

06-014 PRE-ENGINEERED WOOD TRUSS RAFTERS
06-015 1X LOUVER ATTCHED TO END GABLE TRUSS

POLYURETHANE FOAM (INSUL-)

SPRAY POLYURETHANE FOAM (INSUL)

SPRAY POLYURETHANE FOAM (INSUL-)

REQUIREMENTS (INSUL-)

07-071 | SDG-1 - SHINGLE SIDING

DESCRIPTION

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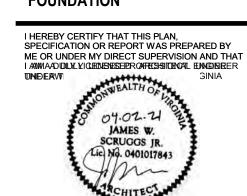
CIVIL/MARINE MOFFATT & NICHOL 4700 FALLS OF NEUSE ROAD SUITE 300 RALEIGH, NC 27609 (919) 78-4626

PROJECT:
JOHN WARNER
MARITIME HERITAGE
CENTER

RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA 22314



AGENCY:
TALL SHIPS PROVIDENCE
FOUNDATION



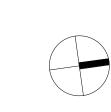
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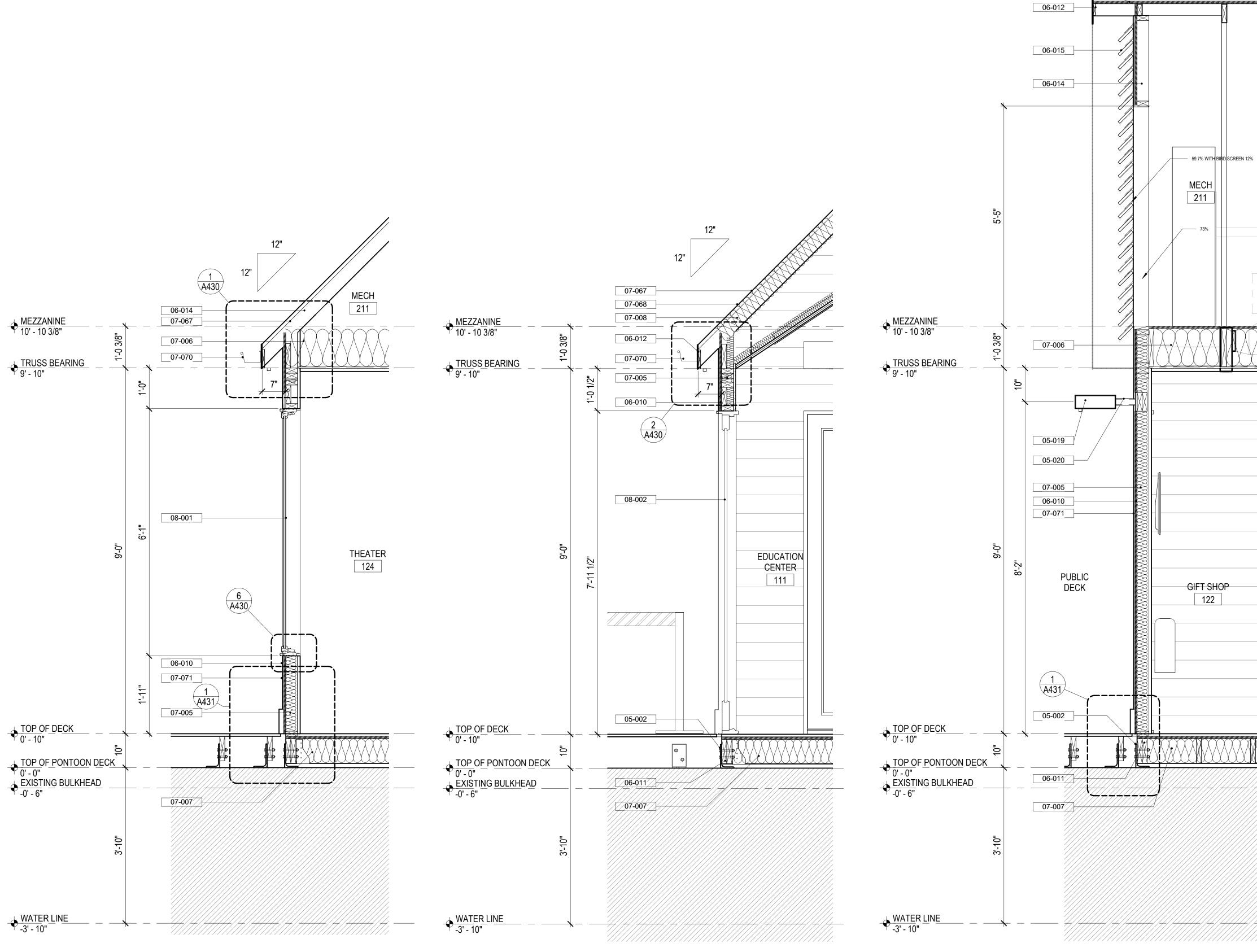
WALL SECTIONS

DATE: APRIL 2, 2021

PERMIT SET







WALL SECTION - TYP. SIDE EAVE

WALL SECTION - SIDE EAVE AT SCISSOR TRUSS

3/4" = 1'-0"

WALL SECTION - GABLE END @ MECH LOUVER

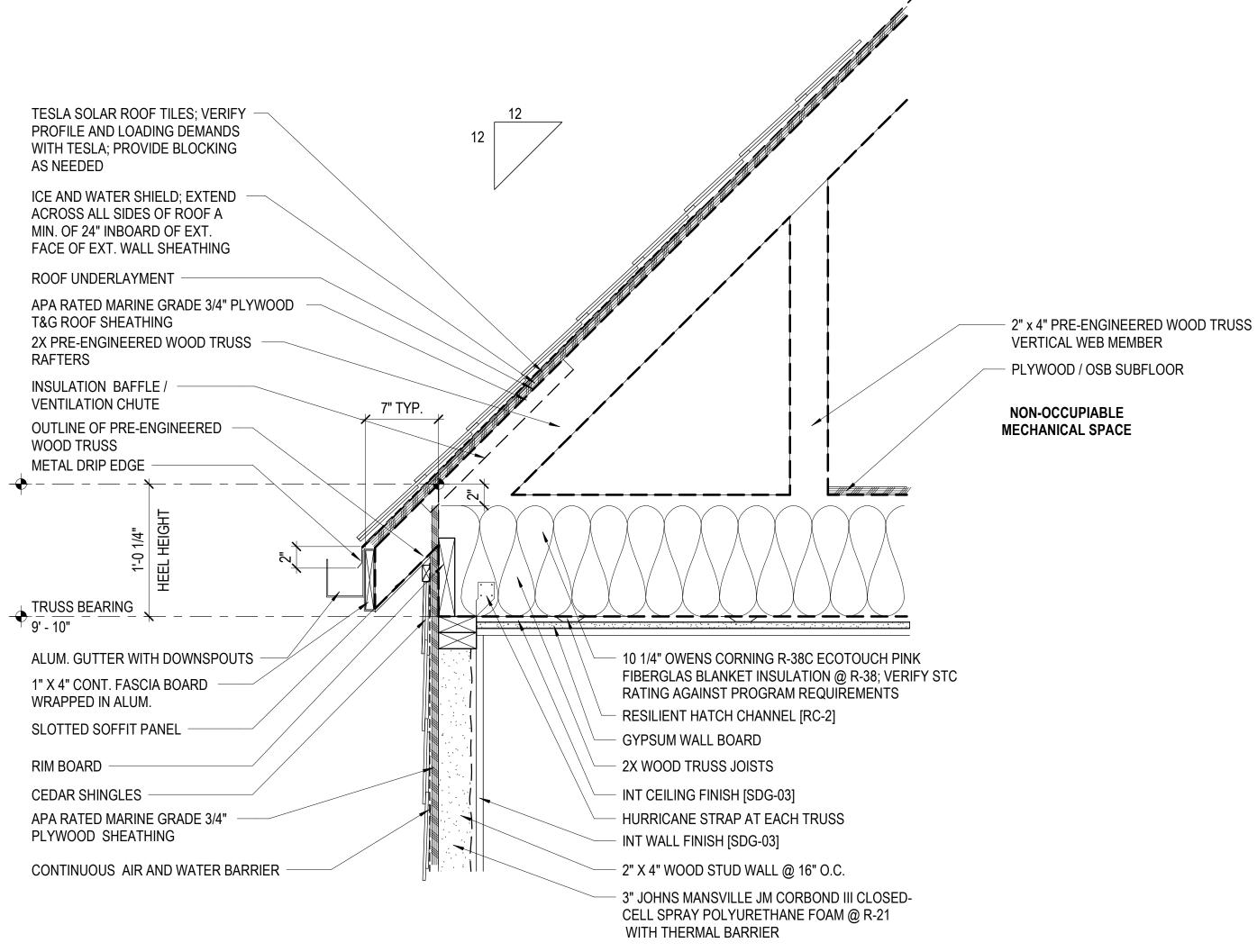
3/4" = 1'-0"

07-067

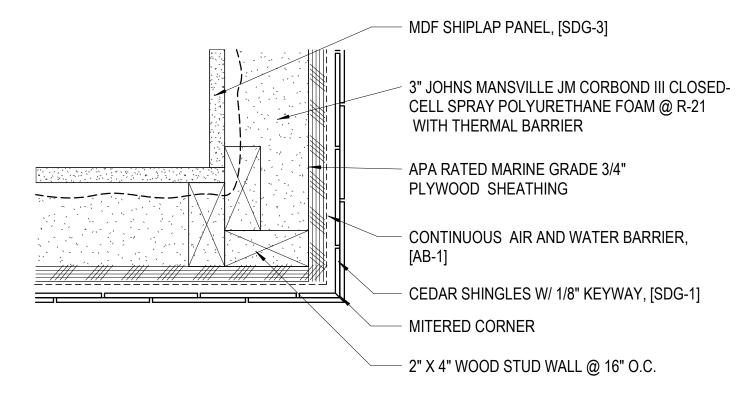
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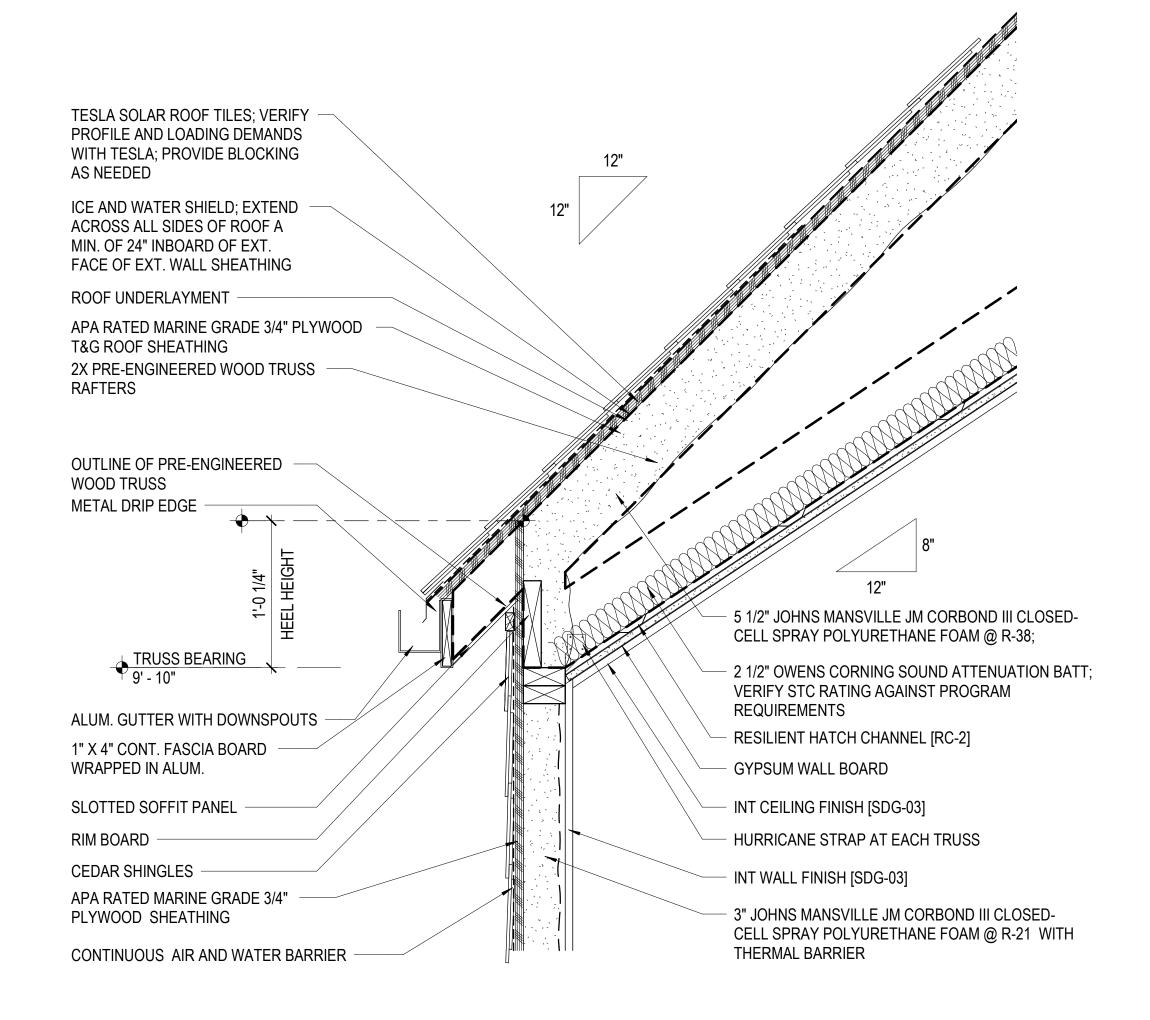
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ROOF, EAVE, AND WINDOW HEAD AT ATTIC TRUSS, TYP. SECTION



SDF-1 OUTSIDE CORNER DETAIL



2 ROOF, EAVE, AND WINDOW HEAD AT SCISSOR TRUSS, TYP. SECTION 1 1/2" = 1'-0"

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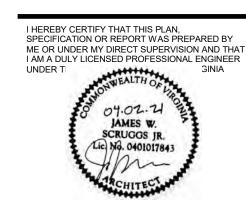
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DATE: APRIL 2, 2021 REGISTRATION NUMBER:

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> **EXTERIOR DETAILS**

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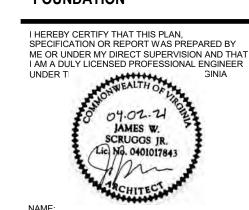
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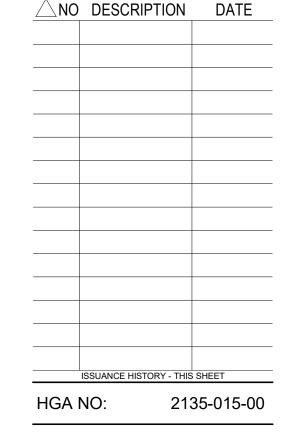
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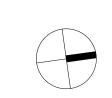


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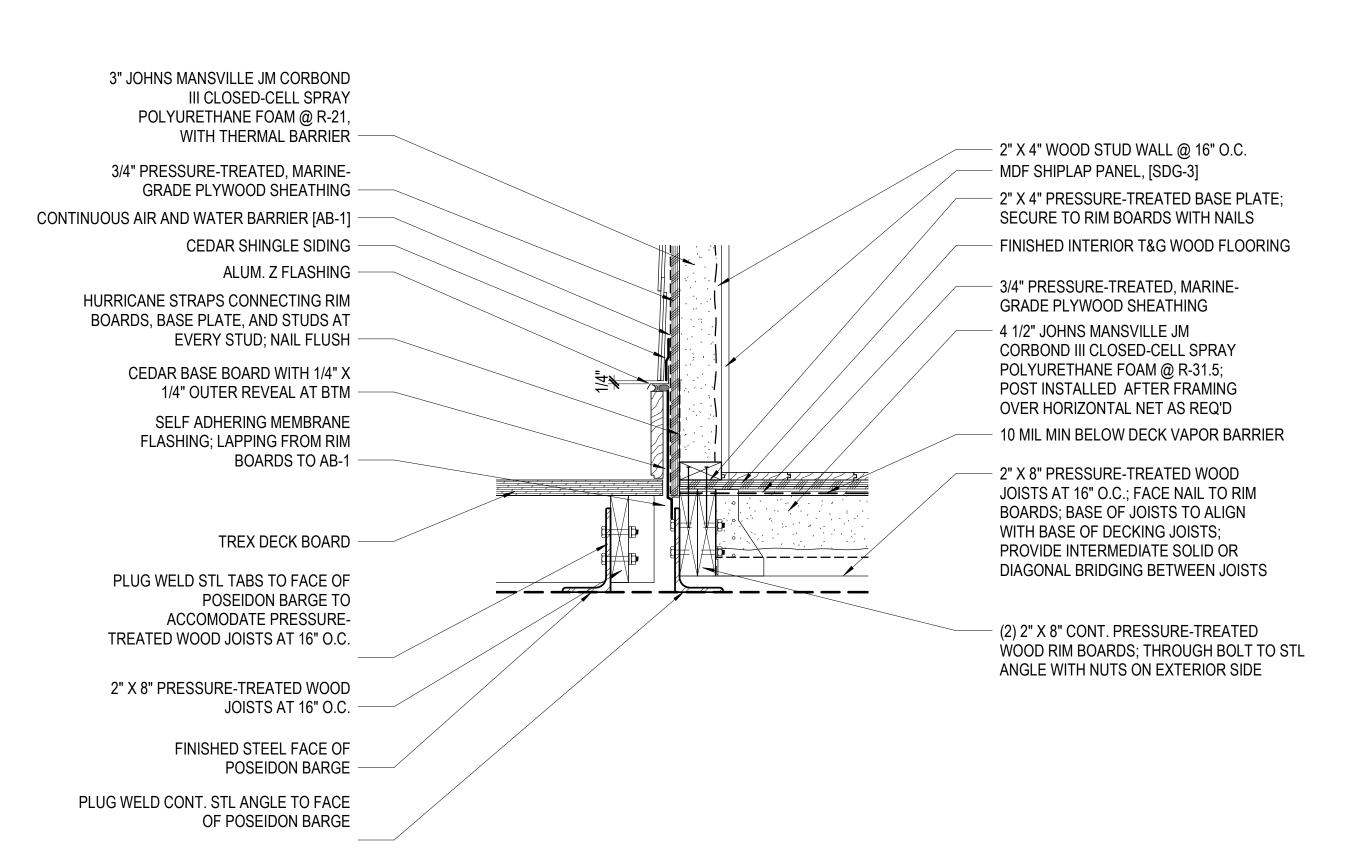
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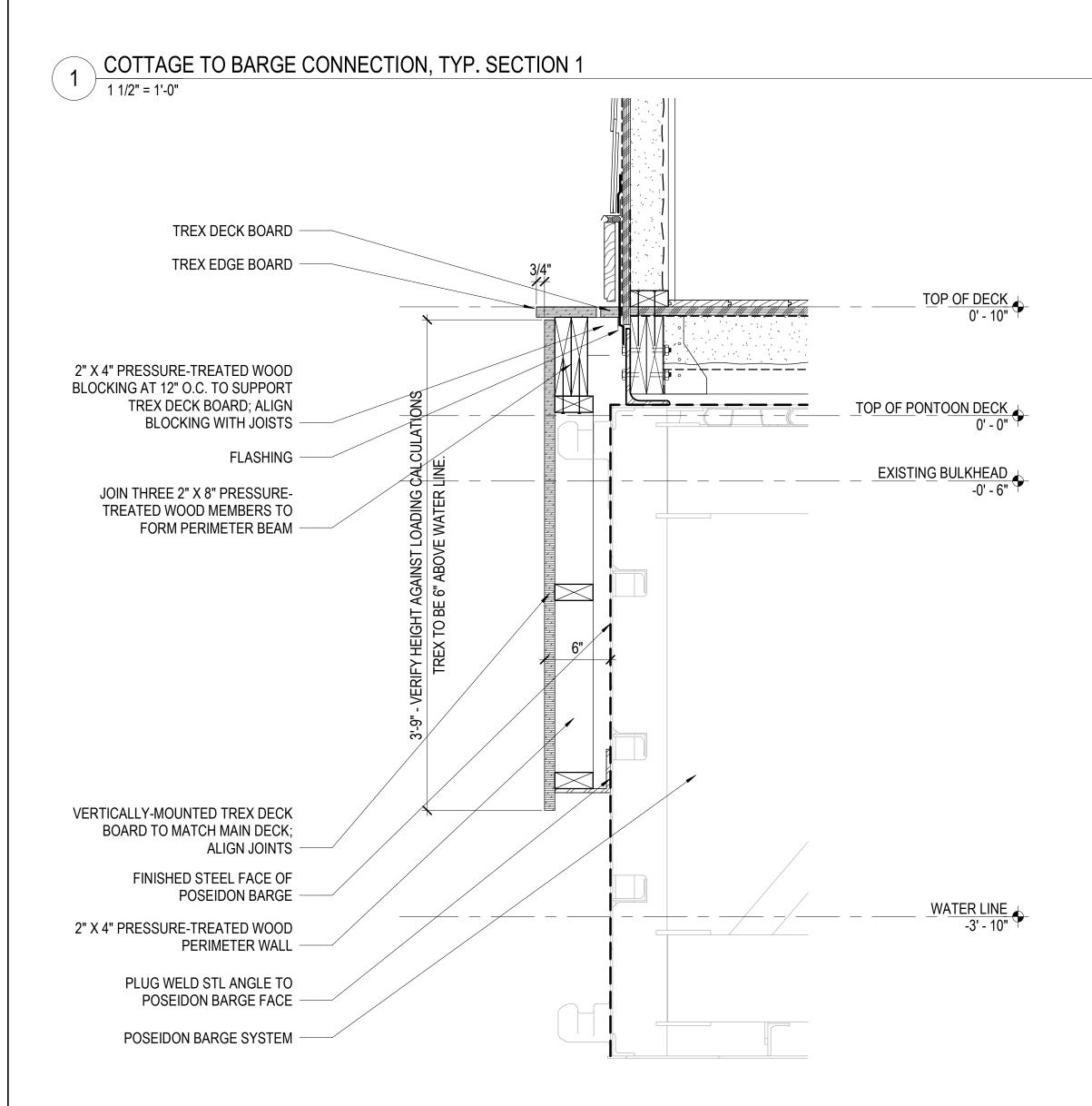
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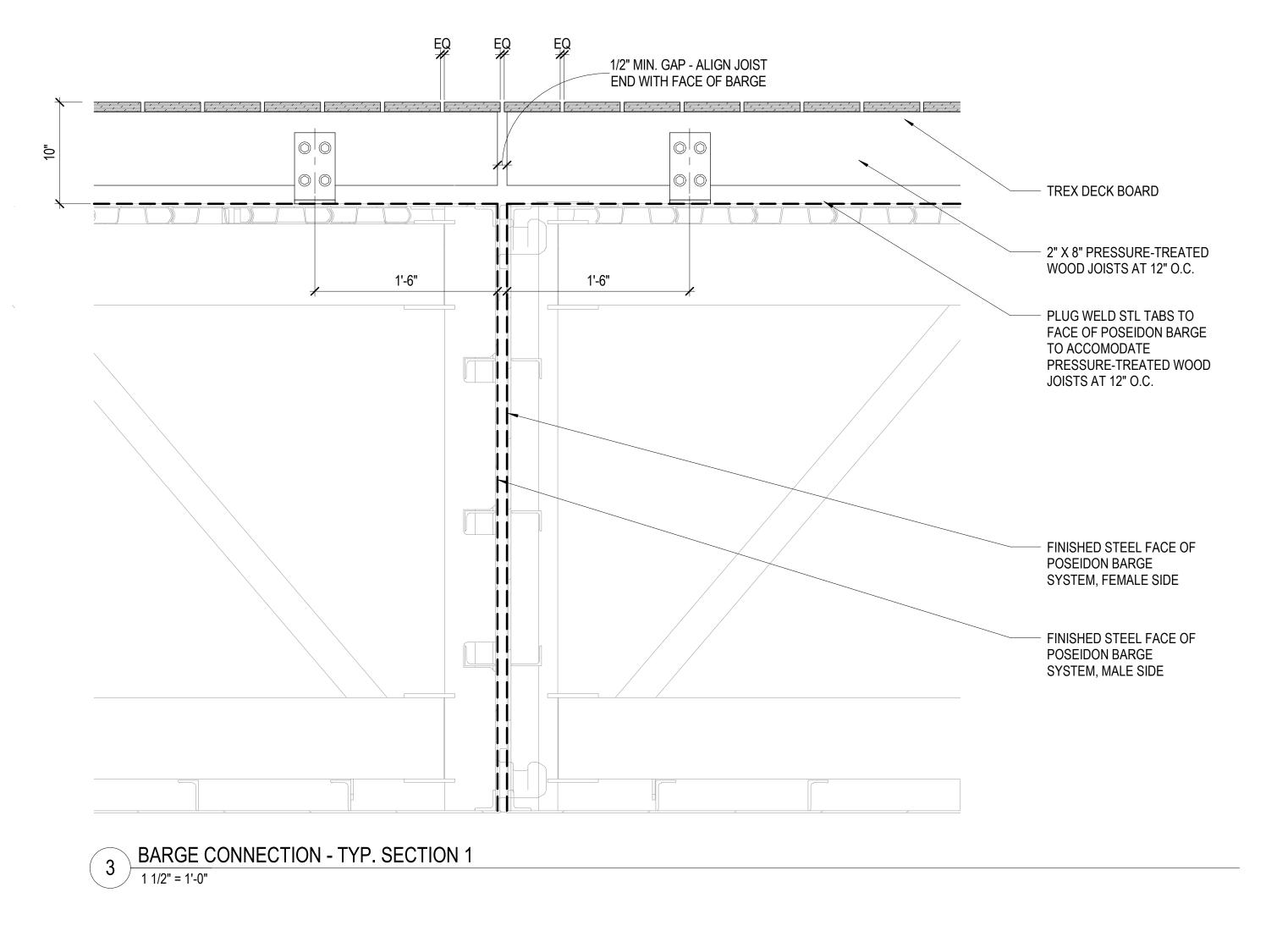
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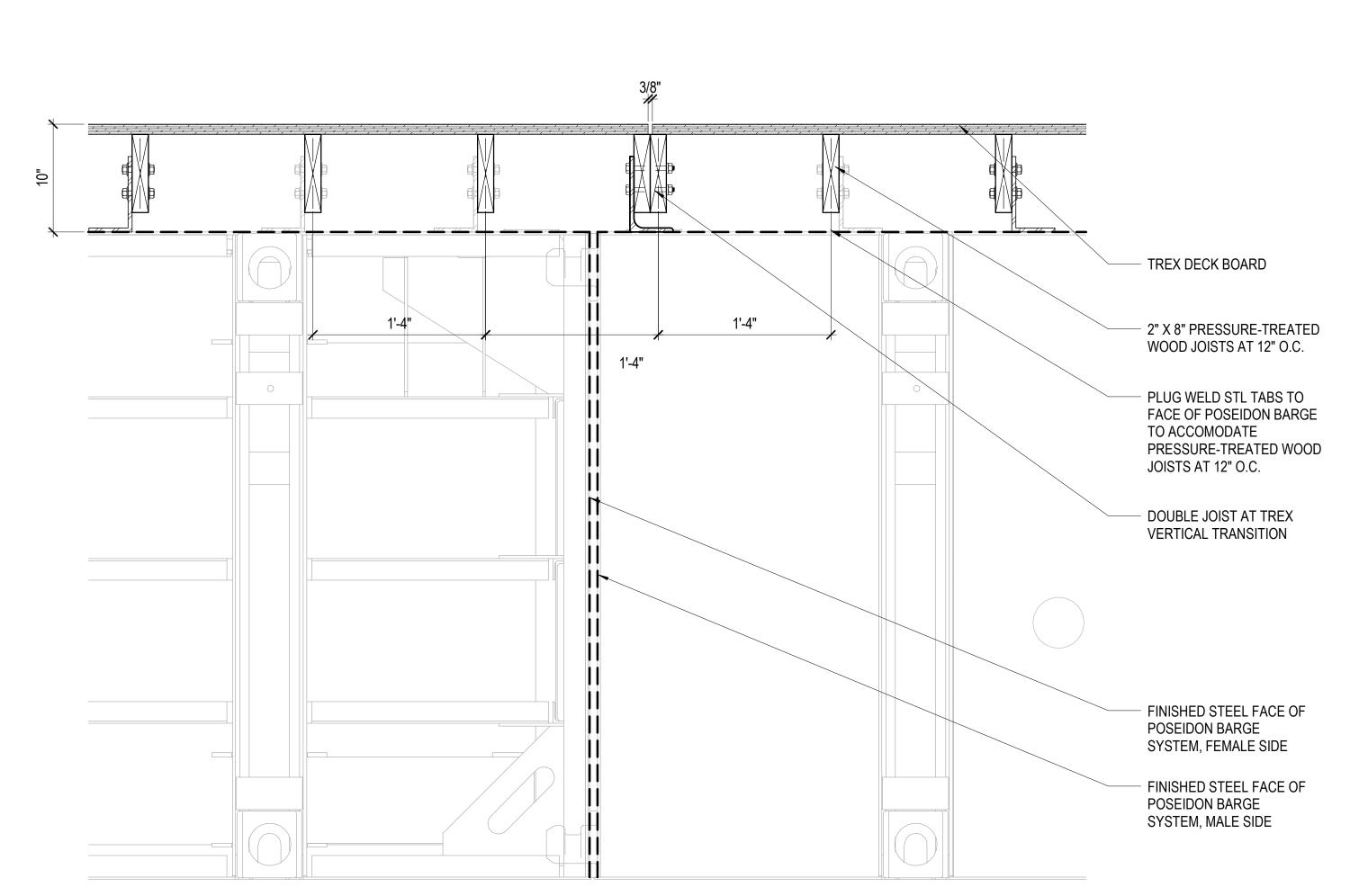


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PROJECT:
JOHN WARNER
MARITIME HERITAGE
CENTER

RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA



AGENCY:
TALL SHIPS PROVIDENCE
FOUNDATION

I HEREBY CERTIFY THAT THIS PLAN,
SPECIFICATION OR REPORT WAS PREPARED BY
ME OR UNDER MY DIRECT SUPERVISION AND THAT
I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER TI SINIA

OFFICE OFFICE OFFICE OFFICE OFFICE OFFI
JAMES W.
SCRUGGS JR.
LICENTO. 0401017843

DATE: APRIL 2, 2021
REGISTRATION NUMBER:

EXTERIOR DETAILS

DATE: APRIL 2, 2021

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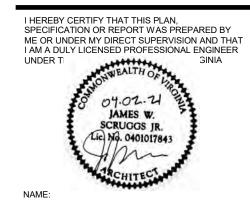
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RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA



AGENCY:
Tall ships providence
Foundation



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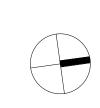
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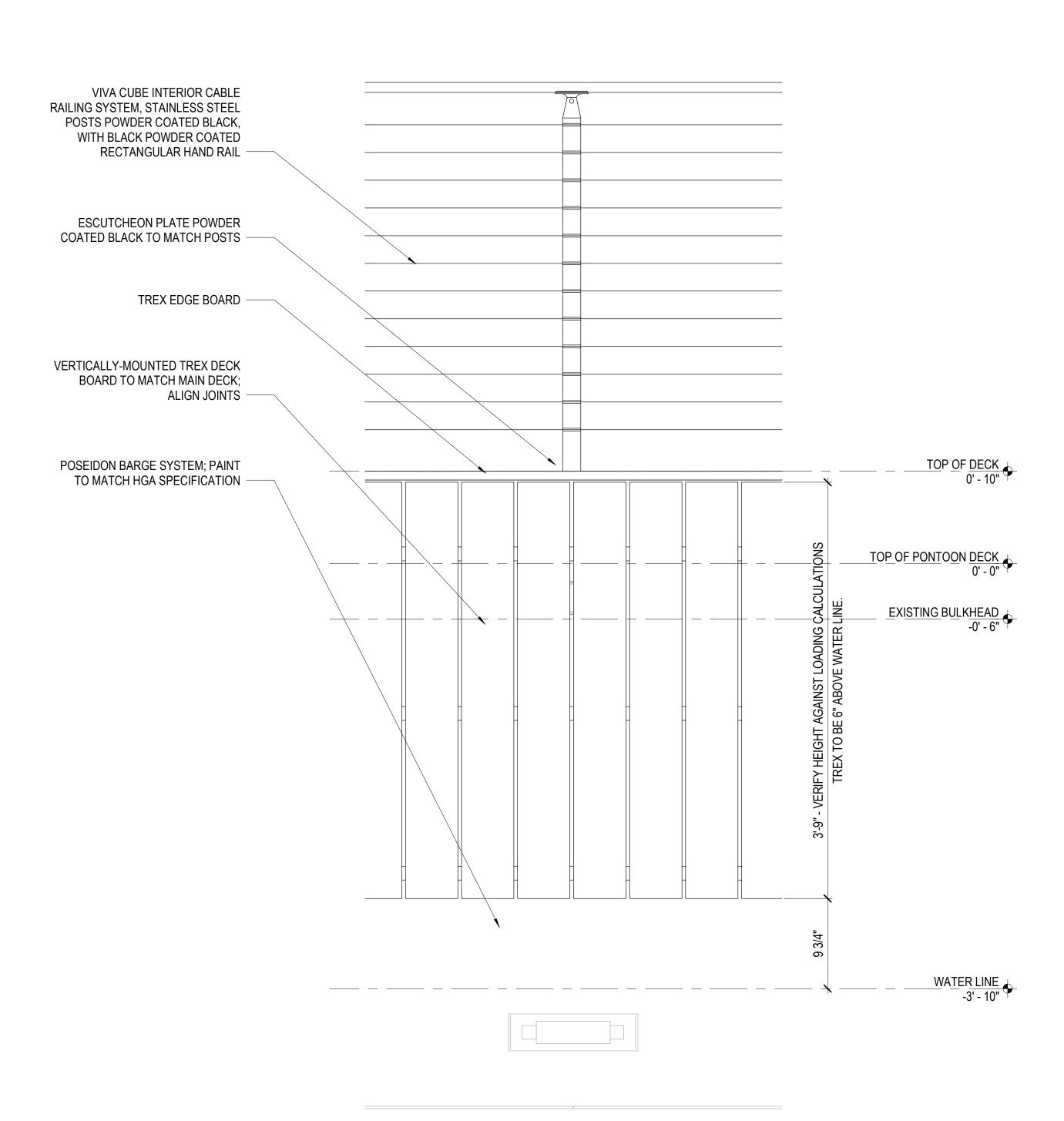
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SCHOELLHORN-ALBRECHT DOCK CLEAT S1092 PLATE STEEL EXTENSION COLLAR -COMPOSITE DECK BOARD TOP OF DECK 0' - 10" 8 5/8" PLUG WELD STL TABS TO FACE OF POSEIDON BARGE TO ACCOMODATE PRESSURE-TREATED WOOD JOISTS AT 16" O.C. -2" X 8" PRESSURE-TREATED WOOD JOISTS AT 16" O.C. —— 2" X 8" PRESSURE-TREATED WOOD PERIMETER BEAM VERTICALLY-MOUNTED TREX DECK BOARD TO MATCH MAIN DECK WATER LINE -3' - 10" ◆ POSEIDON BARGE SYSTEM; PAINT EXTERIOR FACE TO MATCH HGA SPECIFICATION

EASTERN RAFT EDGE

2 DECK RAILING, TYP. ELEVATION
1 1/2" = 1'-0"

TOP CHORDS TO ACCOMMODATE TESLA SOLAR ROOF TILES

- 2" X 12" BOTTOM CHORD TO ACCOMMODATE 10 1/4" FIBERGLAS BLANKET INSULATION

NOTE: MEMBER SIZES AND LOCATION OF WEB MEMBERS TO BE DETERMINED BY TRUSS DESIGNER

NOTE: CLEAR HEIGHT AND WIDTH ARE TO BE MAXIMIZED AS MUCH AS POSSIBLE

TOP CHORDS TO ACCOMMODATE TESLA SOLAR ROOF TILES 2" X 6" BOTTOM CHORDS TO ACCOMMODATE 5 1/2" SPRAY FOAM INSULATION NOTE: MEMBER SIZES AND LOCATION OF WEB MEMBERS TO BE DETERMINED BY TRUSS DESIGNER 15'-10"

ATTIC TRUSS DIAGRAM 1/4" = 1'-0"

SCISSOR TRUSS DIAGRAM / 1/4" = 1'-0"

23'-10" **COTTAGE 1** /ATTIC TRUSS/ ATTIC TRUSS COTTAGE 2 SCISSOR TRUSS - 2" X 4" INTERIOR WOOD PARTITION WALL AT MEZZANINE LEVEL 2" X 4" WOOD SUPPORTING WALLS 15'-10"

3 TRUSS LOCATION KEY PLAN
1/4" = 1'-0"

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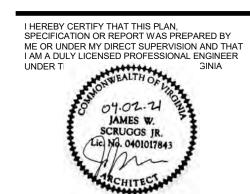
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PROJECT: **JOHN WARNER MARITIME HERITAGE** CENTER

RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA



AGENCY:
TALL SHIPS PROVIDENCE
FOUNDATION



DATE: APRIL 2, 2021 REGISTRATION NUMBER:

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PRE-ENGINEERED **TRUSS DETAILS**

DATE: APRIL 2, 2021





C. FIELD VERIFY & COORDINATE HEIGHTS OF MATERIALS PRIOR TO FABRICATION AND/OR INSTALLATION OF TRANSITION STRIPS. TRANSITION GENERAL NOTES TRANSITION NOTES AND DETAILS

GENERAL NOTES - MOUNTING HEIGHTS A. ALL ACCESSORIES TO BE ACCESSIBLE UNLESS NOTED OTHERWISE. B. ALL ITEMS SHOWN NOT NECESSARILY USED. C. "#" SYMBOL SHOWN SERVES AS A PLACE HOLDER ONLY. REFER TO MATERIAL ID LIST, SPECIFICATIONS AND EQUIPMENT SCHEDULE FOR ACTUAL EQUIPMENT NUMBER. D. PROVIDE BACKING SUPPORTS AT ALL SHELVES, TOILET ACCESSORIES, MIRRORS, CLOCKS, CHALKBOARDS, MARKER BOARDS, WALL HOOKS, COAT RACKS/HOOKS, WOOD TRIM, DOOR BUMPERS, FIRE EXTINGUISHERS AND ALL OTHER ITEMS NOT NOTED TO BE SECURED TO WALL UNLESS OTHER MEANS OF SUPPORT ARE INDICATED. AND SYMBOL DESIGNATES BACKING TYPE. WHERE MORE THAN ONE IS LISTED, CONTRACTOR TO CHOOSE APPROPRIATE DETAIL FROM THOSE LISTED. WHERE NO OPTION IS LISTED CONTRACTOR TO CHOOSE APPROPRIATE METHOD. REFER TO TYPE DETAILS. E. PROVIDE BACKING SUPPORTS AT LOCATIONS WHERE REQUIRED BY OWNER FOR OWNER INSTALLED ITEMS. CONTRACTOR TO COORDINATE WITH OWNER (SEE EQUIPMENT INFORMATION AND SPECIFICATIONS FOR ADDITIONAL INFORMATION). F. SEE ELECTRICAL AND PLUMBING DRAWINGS FOR FURTHER MOUNTING HEIGHT INFORMATION. TV MOUNTING PLATE & BLKG **+** 9 - EO & TV OUTLETS, SEE ELEC DWGS, VERIFY **LOCATION WITH EQUIPMENT VENDOR FINISHED** FLOOR LINE CLOCK ACCESSIBLE PAY **TELEVISION** TELEPHONE **EQUIPMENT MOUNTING HEIGHTS** 1/4" = 1'-0" ACCESSIBLE φ \ ——— €\=\==== REACH **RANGE** STAGGER-

BA-#

STAGGERED

MOP RACK

FE-#

FIRE EXTINGUISHER FIRE EXTINGUISHER

PROJECTIONS

BELOW

MIRROR

ICS-#

*IF ACCESORY IS MOUNTED OVER COUNTER, THEN MAX IS 44"

TOILET ROOM ACCESSORY MOUNTING HEIGHTS

FOLD-DOWN

CHANGING

STATION

TKBD-#

CH-#

FRAME

BUMPER GUARD

PTC-#

ACCESSIBLE PAPER

TOWEL CONTAINER /

WASTE RECEPTACLE

DISPOSABLE

DIAPER

DISPENSER

COAT HOOK

MKBD-#

CH-#

FRAME

WGR-#

HAND RAIL

SLOT

PTC-#

ACCESSIBLE

PAPER TOWEL

DISPENSER

SDISP-#

ACCESSIBLE

SOAP

DISPENSER

COAT HOOKS

ACCESSIBLE

ELECTRIC

HAND DRYER

ACCESSIBLE GEL

DISPENSER/

SANITIZING WIPE DISPENSER

TYP

6 6 6 6 F

TACK BOARDS MARKER BOARDS

COUNTER/DESK TOP

FINISHED FLOOR LINE

FINISHED FLOOR LINE

FINISHED FLOOR LINE

FINISHED FLOOR LINE

FINISHED , FLOOR LINE

1/4" = 1'-0"

\(\begin{array}{c} \begin{array}{c} \BA-# \\ \end{array}

(FEC-#)

THRU-#

PASS THROUGH

CABINET

MOP RACK

PROJECT: **JOHN WARNER** MARITIME HERITAGE **CENTER** RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA

ATTACHMENT 3

STRUCTURE

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Alexandria, Virginia 22314

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9990 FAIRFAX BLVD #300

FAIRFAX, VA 22030

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CIVIL/MARINE

SUITE 300

(919) 78-4626

22314

PROVIDENCE ALEXANDRIA, VA

AGENCY: TALL SHIPS PROVIDENCE FOUNDATION

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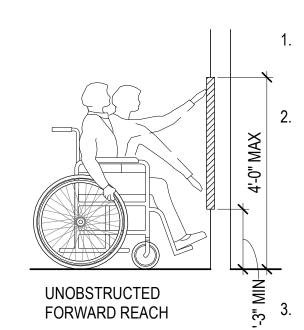
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TYPICAL MOUNTING **HEIGHTS**

DATE: APRIL 2, 2021

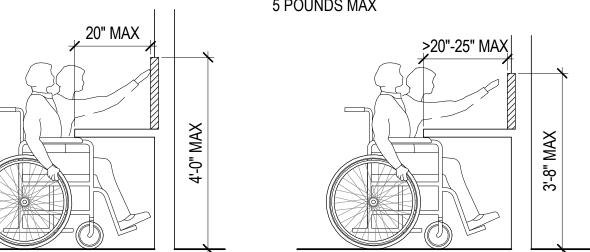
PERMIT SET

GROUND.



UNOBSTRUCTED: WHERE A FORWARD REACH IS UNOBSTRUCTED, THE HIGH FORWARD REACH SHALL BE 48 INCHES MAX AND THE LOW FORWARD REACH SHALL BE 15 INCHES MIN ABOVE FINISH FLOOR OR GROUND. OBSTRUCTED HIGH REACH: WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR SPACE SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE BOSTRUCTION AND THE DEPTH OF THE OBSTRUCTION SHALL BE 25 INCHES MAX THE HIGH FORWARD REACH SHALL BE 48 INCHES MAX FOR A REACH DEPTH OF 20 INCHES, THE HIGH FORWARD REACH SHALL BE 44 INCHES MAX FOR A DEPTH OF 25 **INCHES MAX**

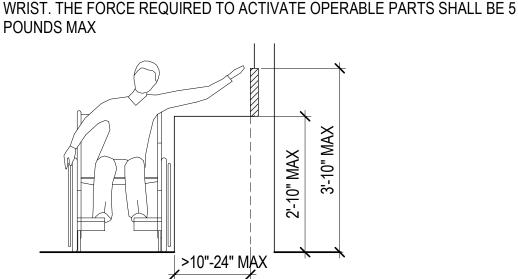
OPERATION: OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAX



OBSTRUCTED HIGH FORWARD REACH

UNOBSTRUCTED * MAX*

SIDE REACH



<u>UNOBSTRUCTED</u>: WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A

UNOBSTRUCTED, THE HIGH SIDE REACH SHALL BE 48 INCHES MAX AND THE

EXCEPTION: AN OBSTRUCTION SHALL BE PERMITTED BETWEEN THE

CLEAR FLOOR OR GROUND SPACE AND THE ELEMENT WHERE THE

OBSTRUCTED HIGH REACH: WHERE A CLEAR FLOOR OR GROUND SPACE

SHALL BE 34 INCHES MAX AND THE DEPTH OF THE OBSTRUCTION SHALL BE

ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE HIGH SIDE REACH IS OVER AN OBSTRUCTION, THE HEIGHT OF THE OBSTRUCTION

24 INCHES MAX THE HIGH SIDE REACH SHALL BE 48 INCHES MAX FOR A

REACH DEPTH OF 10 INCHES MAX WHERE THE REACH DEPTH EXCEEDS 10

OPERATION: OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND

SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE

INCHES, THE HIGH SIDE REACH SHALL BE 46 INCHES MAX FOR A REACH

PARALLEL APPROACH TO AN ELEMENT AND THE SIDE REACH IS

DEPTH OF THE OBSTRUCTION IS 10 INCHES MAX

LOW SIDE REACH SHALL BE 15 INCHES MIN ABOVE FINISH FLOOR OR

OBSTRUCTED HIGH SIDE REACH

* NOTE: SALES OR SERVICE COUNTER SHALL BE PROVIDED WITH 36 INCHES HIGH MAXIMUM ABOVE THE FINISH FLOOR.

DEPTH OF 24 INCHES MAX.

REACH RANGES - SIDE & FORWARD 1/2" = 1'-0"

GENERAL NOTES - SIGNAGE

A. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS SERIF UPPER CASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE COMPLYING WITH CBC 11B-703.3.

B. CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" AND A MAXIMUM OF 2" HIGH. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES MIN AFF, MEASURED FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES MAX AFF, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER.

C. FINISH AND CONTRAST: CHARACTERS, SYMBOLS, AND THEIR BACKGROUNDS SHALL HAVE A NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND. EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.

D. PROPORTIONS: VISUAL AND RAISED CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MIN AND 110% MAX OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10% MIN AND 20% MAX OF THE HEIGHT OF THE CHARACTER.

E. BRAILLE: BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH SECTIONS 11B-703.3 AND 11B-703.4 OF CBC. BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 11B-703.3.1 OF CBC. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS AND ACRONYMS.

F. LOCATION: LOCATE SIGN A MINIMUM OF 4" AND A MAXIMUM OF 12" AWAY FROM DOOR STRIKE SIDE. UNLESS OTHERWISE NOTED. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18"X18" MIN. CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARCH OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. FOR ADDITIONAL INFORMATION, SEE DETAILS -/----/--- &

G. MATERIAL: SIGN MATERIAL TO BE 1/8" THICK ES PLASTIC WITH 1/32" RAISED BORDER AND LETTERS. MATCH EXISTING SIGNS. EDGES OF SIGNS SHALL BE ROUNDED, CHAMFERED OR EASED. CORNERS OF SIGNS SHALL HAVE A MINIMUM RADIUS OF 1/8 INCH

H. COMPLIANCE: ALL SIGNAGE MUST COMPLY WITH ARTICLE 11B-703 OF CBC AS WELL AS CURRENT ADA STANDARDS.

J. WHERE SIGNAGE MUST BE INSTALLED DIRECTLY TO GLAZING, PROVIDE BLANK SIGN ON OPPOSITE SIDE OF GLAZING WHERE NONE PRESENT

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RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA 22314

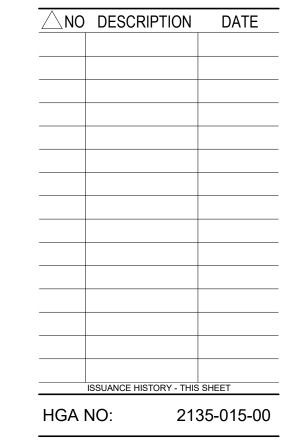


AGENCY: **TALL SHIPS PROVIDENCE FOUNDATION**

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DATE: APRIL 2, 2021

REGISTRATION NUMBER:



SIGNAGE + **DESIGN GUIDE** - MOUNTING **HEIGHTS**

APRIL 2, 2021 DATE:

PERMIT SET

PTN TYPE	STUD WIDTH	PTN WIDTH	DESIGN STC	AVAILABLE FIRE RESISTANCE
A4	2x4	4 3/4"	STC 49 / RAL-TL12-211	
A8	2x8	8 1/2"		

INTERIOR PARTITION TYPE - A SERIES

1 1/2" = 1'-0"

PANEL TYPES

DOOR PANEL LEGEND

1/4" = 1'-0"

B SERIES

PTN WIDTH-

PLAN 😤

PTN TYPE	STUD	PTN WIDTH	DESIGN STC	AVAILABLE FIRE RESISTANCE
B2_	2x2	2 1/8"		
(B4)	2x4	4 1/8"		

GYP BD-1

SLNT-1

FLOOR SLAB

SCHEDULED BASE

UNDERSIDE OF STRUCTURE - CONDITION

VARIES, REFER TO PARTITION HEAD

EXTEND GYP BD TO UNDERSIDE OF

TERMINATE GYP BD ABOVE CEILING

FINISHED CEILING WHERE SCHEDULED

@ 16" OC MAX (SEE TABLE FOR SIZE)

(INSUL-40 > WHERE INDICATED BY MODIFIER

WHERE INDICATED BY MODIFIER

STRUCTURE IF NO CEILING SCHEDULED

DETAILS PER MODIFIER

INTERIOR PARTITION TYPE - B SERIES 1 1/2" = 1'-0"

UNO UNO BRACING AS REQUIRED OR INDICATED ON DETAILS STRUCTURE **ABOVE** HEIGHT **FLOOR** ______X#e> ≺X#aे b - MODIFIER c - MODIFIER d - MODIFIER e - MODIFIER a - MODIFIER <u>f - MODIFIER</u> ACOUSTICAL PARTITION EXTEND TOTAL ACOUSTICAL PARTITON STUDS TO EXTEND TOTAL **EXTEND TOTAL** EXTEND TOTAL PARTITION TO STUDS TO STRUCTURE STRUCTURE GYP BD PARTITION WITH **PARTITION TO 6"** TO 6" ABOVE HIGHEST INSULATION TO 6" PARTITION WITH STRUCTURAL DECK, GYP BD AND ABOVE CEILING, ADJACENT CEILING, ABOVE CEILING, INSULATION TO NO INSULATION **INSULATION TO 6"** PROVIDE BRACING STRUCTURAL DECK ABOVE HIGHEST NO INSULATION PROVIDE BRACING AS NECESSARY, ADJACENT CEILING AS NECESSARY NO INSULATION

INTERIOR PARTITION MODIFIER KEY 1/2" = 1'-0"

DOOR AND FRAME SCHEDULE IDENTIFICATION DOOR FRAME DOOR GLAZING **HDWE GROUP NOTES** NUMBER WIDTH RATING ROOM NAME HEIGHT TYPE FINISH TYP TYPE FINISH WD-AL EDUCATION CENTER | 3' - 1 7/8" | 7' - 11 1/2" | WD-AL-FG GL-21T 111B GL-21T WD-AL EDUCATION CENTER | 3' - 1 7/8" | 7' - 11 1/2" | WD-AL-FG FIXED IN-SWING WOOD ALUM CLAD EDUCATION CENTER GL-21T WD-AL | 3' - 1 7/8" | 7' - 11 1/2" | WD-AL-FG FIXED IN-SWING WOOD ALUM CLAD 111D OBSERVATION DECK | 3' - 1 7/8" | 7' - 11 1/2" | WD-AL-FG GL-21T WD-AL FIXED IN-SWING WOOD ALUM CLAD OBSERVATION DECK | 3' - 1 7/8" | 7' - 11 1/2" | WD-AL-FG GL-21T WD-AL FIXED IN-SWING WOOD ALUM CLAD WD-AL OBSERVATION DECK | 3' - 1 7/8" | 7' - 11 1/2" | WD-AL-FG GL-21T FIXED IN-SWING WOOD ALUM CLAD 111G SBD-1 BARN DOOR 122A THEATER 8' - 0" WD-F PT-1 POCKET DOOR PUBLIC DECK | 3' - 1 7/8" | 7' - 11 1/2" | WD-AL-FG GL-21T WD-AL OBSERVATION DECK | 3' - 1 7/8" | 7' - 11 1/2" | WD-AL-FG GL-21T WD-AL THEATER | 6' - 0 1/8" | 8' - 0" ALUM-1 GL-1T PT-2 RESTROOM 3' - 0" PT-2 PT-2 HM-002 PT-2 HM-F PT-2 PT-2 **RESTROOM** 3' - 0" 7' - 0" HM-002 MOP SINK 2' - 0" 7' - 0" WD-F PT-2 HM-002 PT-2

DOOR HARDWARE GENERAL NOTES

- ALL DOOR STOPS TO BE [FLOOR / WALL] MOUNTED, U.N.O. REFER TO OVERHEAD STOPS FOR DOORS THAT DON'T OPEN AGAINST A WALL.
- ALL CLOSERS TO BE SURFACE-MOUNTED, U.N.O. ON ROOM SIDE.
- ALL LOCKSETS TO BE [CYLINDRICAL/MORTISE], U.N.O. CONTRACTOR TO COORDINATE KEYING WITH OWNER AND CONFIRM EXISTING KEY SYSTEM(S).

A MODIFICATION TO HARDWARE GROUP.

- K ADD KICKPLATE, REFER TO DOOR TRIM
- G ADD GASKET [JAMB] [DOOR BOTTOM] [THRESHOLD] [ASTRAGAL REFER TO SPECIAL GASKET
- AND ASTRAGAL AT PAIRS REFER TO WEATHERSTRIP

- ALL HARDWARE TO BE [SELECT FINISH], U.N.O.

DOOR HARDWARE MODIFIERS

DOOR HARDWARE MODIFIERS ARE ADDED TO HARDWARE GROUPS TO ADD

- W ADD WEATHERSTRIP, THRESHOLD, DOOR BOTTOM/SWEEP, RAIN DRIP

A. NOT ALL DOOR AND FRAME TYPES SHOWN HERE MAY BE USED IN THIS PROJECT.

FRAME TYPE, FRAME WIDTH AND RELATED DOOR GLAZING INFORMATION.

C. PROVIDE TEMPERED GLASS AT LOCATIONS INDICATED AND AS REQUIRED TO

D. REFER TO PLANS FOR INTERIOR PARTITION TYPES AND EXTERIOR WALL TYPES.

E. GROUT SOLID HOLLOW METAL FRAMES AT MASONRY PARTITIONS. SPOT GROUT

F. REFER TO DOOR AND FRAME SCHEDULE FOR FRAME WIDTHS AND FOR DOOR

G. WHERE FIRE-RATED PARTITIONS INTERSECT ANOTHER FIRE-RATED OR NON-RATED

PARTITION, MAINTAIN HIGHER-RATED ASSEMBLY CONTINUITY ACROSS INTERSECTION.

B. REFER TO DOOR AND FRAME SCHEDULE, SEE DOOR ELEVATIONS AND DETAILS FOR

GENERAL NOTES - INTERIOR PARTIONS

MINIMUM SOUND TRANSMISSION CLASS (STC) VALUES INDICATED ARE BASED ON PARTITION TYPE WITH "A" MODIFIER: WHERE PARTITION ASSEMBLY EXTENDS TO DECK WITH ACOUSTIC INSULATION FILLING SPACE BETWEEN FRAMING FOR FULL HEIGHT OF

PROVIDE ACOUSTICAL SEALANT AND SOUND ATTENUATION BLANKETS AT STC-RATED PARTITIONS.

FLOOR PLAN DIMENSIONS ARE TO FACE OF SCHEDULED PARTITION ASSEMBLY EXCLUSIVE OF APPLIED FINISHES, UNLESS NOTED OTHERWISE

"CLEAR", "HOLD" OR "FACE OF FINISH" DIMENSIONS INDICATE MINIMUM CLEARANCE REQUIRED BETWEEN SCHEDULED PARTITIONS WITH APPLIED FINISHES PARTITION TYPES INDICATE GENERAL INTERIOR PARTITION REQUIREMENTS. REFER TO OTHER CONTRACT DOCUMENTS FOR ADDITIONAL REQUIREMENTS RELATED TO INTERIOR PARTITION CONSTRUCTION AND PERFORMANCE REQUIREMENTS.

PARTITION TYPES INDICATED REFLECT TYPICAL CONDITIONS. REFER TO REFERENCED DETAILS FOR SPECIFIC PARTITION DETAILS.

PROVIDE PENETRATION FIRESTOPPING AND JOINT FIRESTOPPING AS SCHEDULED AND AS REQUIRED TO MAINTAIN CONTINUITY OF FIRE-RESISTANCE RATINGS OF ASSEMBLIES. REFER TO STRUCTURAL DRAWINGS FOR INTERIOR STRUCTURAL PARTITIONS OF COLD-FORMED METAL FRAMING AND PARTITIONS INDICATED AS <STR-#>.

FIRE-RESISTANCE RATINGS AND ACOUSTICAL PERFORMANCE REQUIREMENTS INDICATED ARE BASED ON SPECIFIED PRODUCTS AND SYSTEMS. FIRE-RESISTANCE RATINGS AND ACOUSTICAL PERFORMANCE REQUIREMENTS FOR SYSTEMS USING MATERIALS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY VARY.

PROVIDE MOISTURE- AND MOLD-RESISTANT GYPSUM BOARD AT THE FOLLOWING LOCATIONS, UNLESS NOTED OTHERWISE: PARTITIONS IN TOILET ROOMS OTHER THAN SHOWER WALLS, JANITOR'S CLOSETS, OTHER PARTITIONS TO RECEIVE CERAMIC AND STONE TILE, AND AS INDICATED.

PROVIDE CEMENTITIOUS BACKER BOARD AT PARTITIONS AROUND SHOWERS AND OTHER LOCATIONS AS INDICATED.

- PROVIDE GYPSUM BASE FOR VENEER PLASTER WHERE GYPSUM VENEER PLASTER FINISH IS INDICATED.
- WHERE WALLS OR PARTITIONS OF UNEQUAL THICKNESS ABUT, ALIGN COPLANAR EXPOSED FINISH SURFACES.

PARTITION THIS CHARACTER DENOTES THE ASSEMBLY **NAMING** SERIES TO WHICH THE WALL BELONGS. **LEGEND**

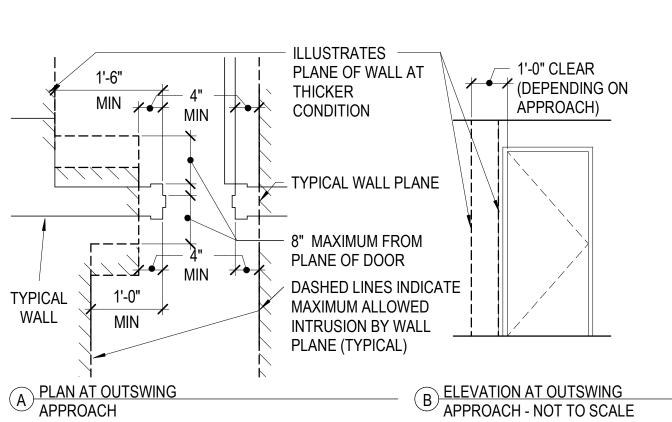
3. MODIFIER THIS CHARACTER DENOTES MODIFICATION(S) TO THE SERIES ASSEMBLY.

2. METAL STUD/MASONRY UNIT SIZE DESIGNATOR FURRING WIDTH. FOR MASONRY, THIS CHARACTER 1. SERIES 2. STUD/MASONRY SIZE DESIGNATOR 3. MODIFIER

PARTITION NAMING LEGEND 1 1/2" = 1'-0"

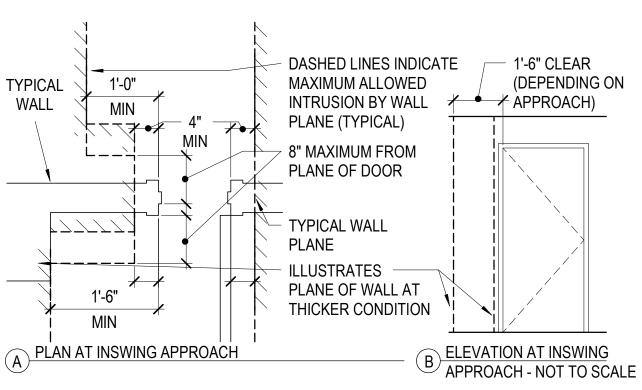
INDICATES NOMINAL UNIT WIDTH.

THIS CHARACTER DENOTES THE STUD OR



NOTE: AT NARROW CONDITIONS THE SETBACKS INCREASE DUE TO LACK OF WHEELCHAIR MOBILITY AREA - REFER TO ADA.

DOOR MANEUVERING CLEARANCES OUTSWING APPROACH



NOTE: AT NARROW CONDITIONS THE SETBACKS INCREASE DUE TO LACK OF WHEELCHAIR MOBILITY AREA - REFER TO ADA.

DOOR MANEUVERING CLEARANCES INSWING APPROACH 3/4" = 1'-0'

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> **STRUCTURE ADTEK ENGINEERS. INC** 9990 FAIRFAX BLVD #300 FAIRFAX, VA 22030 (703) 691-4040

CIVIL/MARINE **MOFFATT & NICHOL** 4700 FALLS OF NEUSE ROAD SUITE 300 RALEIGH, NC 27609 (919) 78-4626

PROJECT: **JOHN WARNER** MARITIME HERITAGE CENTER

RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA



AGENCY: **TALL SHIPS PROVIDENCE FOUNDATION**

SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER SCRUGGS JR. Lic No. 0401017843

DATE: APRIL 2, 2021 REGISTRATION NUMBER:

NO DESCRIPTION DATE ISSUANCE HISTORY - THIS SHEET HGA NO: 2135-015-00

PARTITION TYPES & DOOR **SCHEDULE**

DATE: APRIL 2, 2021

PERMIT SET

SEE SCHED. SEE SEE SCHED. SCHED. HM-F/WD-F WD-AL-FG SBD-1 FULL GLASS SLIDING BARN DOOR FRAME TYPES SEE 2" SEE 2 SCHED. WD-AL/HM-002 **WDP-001** WOOD FRAME WITH SINGLE POCKET

SCHED

DOOR FRAME LEGEND

1/4" = 1'-0"

INFORMATION.

COMPLY WITH APPLICABLE CODES.

HOLLOW METAL FRAMES OTHER PARTITION TYPES.

BUILDING CODE: 2015 INTERNATIONAL BUILDING CODE AS MODIFIED BY 2015 VIRGINIA CONSTRUCTION CODE AND ASCE 7-10 PER THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE

ANY REFERENCES TO VARIOUS TRADE CODES THROUGHOUT THESE NOTES ARE TO THE YEAR OF THE

DESIGN LIVE LOADS

STRUCTURAL NOTES

ROOF STRUCTURAL ELEMENTS SHALL BE DESIGNED FOR THE MORE CRITICAL OF THE FOLLOWING LOAD CASES

> CASE 1 20 PSF MINIMUM (NOT REDUCIBLE) CASE 2 SNOW LOAD BASED ON 25 PSF GROUND SNOW LOAD WITH APPLICABLE DRIFT AND SLIDING LOADS

ROOF SNOW LOAD DESIGN DATA: FLAT ROOF SNOW LOAD (Pf) - 17 PSF SNOW EXPOSURE FACTOR (Ce) – 0.8

THERMAL FACTOR (Ct) – 1.2

CODE CITED IN THE ABOVE REFERENCE BUILDING CODE.

FLOORS: THE FLOOR AREAS HAVE BEEN DESIGNED FOR THE FOLLOWING MINIMUM LIVE LOADS. LIVE LOAD REDUCTION HAS BEEN CONSIDERED IN FLOOR AND COLUMN DESIGN.

PUBLIC SPACES

ATTIC MEZZANINE 40 PSF + EQUIPMENT LOADS PER PLAN

SNOW LOAD IMPORTANCE FACTOR (I) - 1.0

DESIGN DEAD LOADS

25 PSF (TOTAL INCLUDING SELF WEIGHT) TRUSSES-TOP CHORD 8 PSF (SUPERIMPOSED) TRUSSES-BOTTOM CHORD 12 PSF (SUPERIMPOSED) + ATTIC MEZZANINE (WHERE SHOWN)

<u>LATERAL LOADS</u>

WIND LOAD ANALYSIS RISK CATEGORY ULTIMATE WIND SPEED (Vult)

115 MPH NOMINAL WIND SPEED (Vasd) 89 MPH WIND EXPOSURE INTERNAL PRESSURE COEFFICIENT +/- 0.18

NET WIND UPLIFT ON TRUSSES AND ROOFING TO BE PER THE LOADS IN THE COMPONENTS AND CLADDING WIND CHART ON THIS SHEET.

GENERAL NOTES

REFER TO THE ARCHITECTURAL, ELECTRICAL, MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL SLEEVES, ANCHORS, VENT OPENINGS, ETC. NOT SHOWN ON THE STRUCTURAL PLANS.

NOTIFY THE STRUCTURAL ENGINEER OF RECORD OF ANY DEVIATION FROM THE STRUCTURAL CONTRACT DOCUMENTS FOR APPROVAL.

ALL MATERIALS SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE ASTM SPECIFICATIONS NOTED IN THE STRUCTURAL NOTES AND PROJECT SPECIFICATIONS BASED ON THE FINAL DATE NOTED ON THE CONSTRUCTION DOCUMENTS.

ALL DIMENSIONS AND NOTES SHALL SUPERSEDE ALL SCALE REFERENCES ON THE DRAWINGS.

ALL WORK SPECIFIED HEREIN SHALL BE INSPECTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, THE BUILDING CODE AND ALL LOCAL ORDINANCES. THE CONTRACTOR SHALL HIRE AN EXPERIENCED, QUALIFIED SPECIAL INSPECTOR TO PERFORM ALL THE REQUIRED INSPECTION WORK. ADTEK ENGINEERS WILL NOT PERFORM THE CONTINUOUS DAILY SPECIAL INSPECTIONS DURING CONSTRUCTION. ADTEK ENGINEERS MAY VISIT THE SITE TO ASCERTAIN GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS AND SUCH VISITS ARE NOT TO BE CONSTRUED AS MEETING THE DAILY SPECIAL INSPECTION REQUIREMENTS UNLESS THE ENGINEER SPECIFICALLY SO STATES IN WRITING.

IT IS THE INTENT OF THESE DRAWINGS FOR ALL DISCIPLINES AND SPECIFICATIONS TO PRODUCE A COMPLETE PROJECT. IN ALL CASES THE DRAWINGS AND SPECIFICATIONS MUST BE REVIEWED, PRICED, ESTIMATED, AND CONSTRUCTED IN THEIR ENTIRETY. THE DRAWINGS ARE COMPLEMENTARY TO ONE ANOTHER AND THE SPECIFICATIONS. ANYTHING SHOWN OR IMPLIED ON ANY ONE DRAWING MUST BE PROVIDED, INSTALLED AND CONNECTED AS THOUGH IT WAS SHOWN ON ALL DRAWINGS AND INCLUDED IN THE ORIGINAL PRICING. NO REQUEST FOR ADDITIONAL COST OR CHANGE ORDER WILL BE ACCEPTED BY THE OWNER FROM ANY CONTRACTOR, SUPPLIER, OR INSTALLER THAT RESULTS FROM A FAILURE TO THOROUGHLY REVIEW ALL DRAWINGS AND SPECIFICATIONS, COORDINATE WITH OTHER TRADES, OR THOROUGHLY INSPECT THE SITE TO DETERMINE ALL EXISTING CONDITIONS.

IF AN ASSUMED OR ACTUAL CONFLICT IS DISCOVERED IN THE CONTRACT DOCUMENTS, THE MORE EXPENSIVE OR HIGHER QUALITY OPTION (AS DETERMINED BY THE ARCHITECT/ENGINEER) SHALL BE ASSUMED TO APPLY UNLESS DIRECTED OTHERWISE BY THE ARCHITECT/ENGINEER.

THE CONTRACTOR IS REQUIRED TO VISIT THE SITE, FAMILIARIZE THEMSELVES WITH THE LOCAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND AS ARE NECESSARY FOR CONSTRUCTION, AND CORRELATE THEIR OBSERVATIONS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. IT IS ASSUMED THAT THE CONTRACTOR HAS OBTAINED, BEFORE AWARD OF THE CONTRACT, CLARIFICATION OF ALL QUESTIONS AS TO THE INTENT OF THE CONTRACT DOCUMENTS AND OF ASSUMED OR ACTUAL CONFLICT BETWEEN TWO OR MORE ITEMS IN CONTRACT DOCUMENTS. SHOULD THE CONTRACTOR FAIL TO OBTAIN SUCH CLARIFICATION, THE ARCHITECT/ENGINEER SHALL DIRECT WORK TO PROCEED BY THE METHOD INDICATED, SPECIFIED OR REQUIRED BY CONTRACT DOCUMENTS WHICH WILL PRODUCE THE BEST RESULTS, AS JUDGED BY THE ARCHITECT/ENGINEER. SUCH DIRECTION BY THE ARCHITECT/ENGINEER SHALL NOT ENTITLE THE CONTRACTOR TO ANY CLAIM FOR EXTRA COST.

CONTRACTOR RESPONSIBILITIES

THE FOLLOWING LIST IS NOT INTENDED TO BE ALL INCLUSIVE, BUT MERELY TO PLACE EMPHASIS ON PARTICULAR ITEMS OF JOB SCHEDULING AND SAFETY.

- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE PROJECT ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW, ALLOWING A MINIMUM OF TWO WEEKS FOR REVIEW BY THE PROJECT ARCHITECT AND STRUCTURAL ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REDESIGN OF THE STRUCTURAL SUPPORTS OF EQUIPMENT WHEN THE OPERATING WEIGHT OF THE EQUIPMENT PROVIDED (INCLUDING CURBS AND ACCESSORIES) EXCEEDS THE MAXIMUM DESIGN WEIGHTS NOTED ON THE STRUCTURAL DRAWINGS. SUBMIT STRUCTURAL CALCULATIONS AND DETAILS FOR THE REVISED EQUIPMENT SUPPORT TO THE PROJECT ARCHITECT FOR REVIEW. THE SUBMITTAL SHALL BE STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT JURISDICTION.
- IF ACTUAL FIELD CONDITIONS VARY FROM WHAT IS SHOWN OR ASSUMED IN THE CONTRACT DOCUMENTS, THE CONTACTOR IS REQUIRED TO PROMPTLY NOTIFY THE ARCHITECT/ENGINEER AND RECEIVE DIRECTION PRIOR TO PROCEEDING WITH THE WORK AFFECTED BY THE ACTUAL FIELD CONDITION.
- THE CONTRACTOR SHALL NOTIFY THE PROJECT SPECIAL INSPECTOR IN ADVANCE OF WORK REQUIRING INSPECTIONS OR ON-SITE PERSONNEL. COORDINATE ADVANCE NOTIFICATION REQUIREMENTS WITH THE SPECIAL INSPECTOR.

CONTRACTOR RESPONSIBILITIES (CONT.)

- 5. IF THE CONTRACTOR ANTICIPATES A PROBLEM THAT WILL REQUIRE ASSISTANCE FROM THE PROJECT STRUCTURAL ENGINEER, THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PROVIDE THE ENGINEER WITH MINIMUM 24 HOURS NOTICE.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION IS ACCORDING TO THE SIGNED AND SEALED CONSTRUCTION DOCUMENTS AND THE REVIEWED SHOP DRAWINGS.
- 7. THE CONTRACTOR SHALL ENGAGE A PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT JURISDICTION TO DESIGN AND DETAIL THE SUBMITTAL ITEMS NOTED IN THE DEFERRED SUBMITTALS BELOW.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING BETWEEN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS. IT IS NOT INTENDED THAT THE STRUCTURAL DRAWINGS BE USED INDEPENDENTLY OF THE ARCHITECTURAL DRAWINGS. ANY DISCREPANCIES, INCLUDING DIMENSIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE WORK.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR METHODS TO ENSURE CONSTRUCTION SAFETY AT THE SITE THROUGHOUT THE COURSE OF THE PROJECT CONSTRUCTION. SEE O.S.H.A. & M.O.S.H. REGULATIONS FOR CONSTRUCTION.
- 10. UPON STRUCTURAL COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE SPECIAL INSPECTOR SUBMIT A LETTER OF CERTIFICATION INDICATING THAT THE STRUCTURE IS IN COMPLIANCE WITH THE PLANS, SPECIFICATIONS, CONCRETE TEST REPORTS AND CODE REQUIREMENTS. THIS LETTER MUST BE REVIEWED BY THE ARCHITECT AND ENGINEER OF RECORD BEFORE SUBMITTAL.

SUBMITTALS NOTES

- 1. SUBMIT THE SHOP DRAWINGS NOTED BELOW TO THE PROJECT ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW.
- BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT JURISDICTION. THE ENGINEER MUST HAVE FASTENINGS." A MINIMUM OF THREE YEARS EXPERIENCE IN THE DESIGN OF THE TYPE OF STRUCTURAL COMPONENT REQUIRED FOR THE SUBMITTAL. THE ENGINEER SHALL PERFORM PERIODIC FIELD OBSERVATIONS AND ISSUE A FINAL CERTIFICATION FOR THE FINAL CONSTRUCTION OF THE STRUCTURE INCLUDED IN THEIR SUBMITTAL.
- 3. REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONSTRUCTION DOCUMENTS FOR USE AS SHOP DRAWINGS IS PROHIBITED.
- 4. IF REQUIRED BY THE AUTHORITY HAVING JURISDICTION, PROVIDE THE REVIEWED SHOP DRAWINGS OF THE DEFERRED SUBMITTALS FOR THEIR REVIEW.

A. MISCELLANEOUS STRUCTURAL STEEL B. ANY OPENINGS IN STRUCTURAL ELEMENTS NEED TO BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL.

A. WOOD TRUSSES (FRAMING PLANS AND CALCULATIONS)

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS ARE REQUIRED DURING CONSTRUCTION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE. THE TERM SPECIAL INSPECTOR REFERS TO THE SPECIAL INSPECTING ENGINEER OF RECORD HIRED BY THE OWNER IN COMPLIANCE WITH THE INTERNATIONAL BUILDING CODE. INSPECTIONS OF FOUNDATION SUBGRADES MUST BE CONDUCTED BY A LICENSED GEOTECHNICAL ENGINEER, REFERRED TO HEREIN AS THE GEOTECHNICAL INSPECTOR. SPECIAL INSPECTIONS SHALL BE PERFORMED FOR, BUT NOT LIMITED TO, THE FOLLOWING STRUCTURAL ITEMS:

1. WOOD TRUSSES

EXISTING CONDITIONS

ALL EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BEFORE EXCAVATION. DEMOLITION, OR CONSTRUCTION IS BEGUN. EXISTING UTILITIES SHALL BE LOCATED AND PROTECTED AS REQUIRED BY THE EXCAVATION, DEMOLITION, OR CONSTRUCTION. FIELD MEASUREMENTS SHALL BE MADE OF ADJOINING CONSTRUCTION RELATIVE TO THE PROPER INSTALLATION OF NEW WORK. ALL DISCREPANCIES SHALL BE REPORTED TO THE PROJECT ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH THE WORK IN THE AREA OF THE DISCREPANCY.

FIELD VERIFY ALL RELEVANT EXISTING DIMENSIONS, ELEVATIONS, AND MEMBER SIZES.

STRUCTURAL STEEL (MISCELLANEOUS)

- ALL STEEL SHALL BE IN ACCORDANCE WITH THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AISC 360-10, BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).
- ALL ANGLES, CHANNELS, BENT PLATES, FLAT STOCK AND OTHER MISC. METAL SHAPES SHALL BE ASTM A36 UNLESS NOTED OTHERWISE. ALL CONNECTIONS SHALL BE WELDED OR BOLTED.
- FASTENERS INTO WOOD SHALL BE ASTM A305 GALVANIZED, UNLESS NOTED OTHERWISE.
- WELDING SHALL BE DONE ONLY BY AWS CERTIFIED WELDERS. WELD IN ACCORDANCE WITH THE AWS "STANDARD CODE" FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION. USE E70XX ELECTRODES.
- SEE THE "CONTRACTOR RESPONSIBILITES" AND "SUBMITTAL" NOTES FOR ADDITIONAL STEEL SHOP DRAWING REQUIREMENTS.
- ALL STEEL (MISCELLANEOUS) SHALL BE CONSIDERED EXPOSED TO WEATHER AND SHALL BE HOT DIPPED GALVANIZED PER ASTM A123 AFTER FABRICATION. APPLY ZINC PRIMER TO BOLTED AND WELDED CONNECTIONS IN THE FIELD.

ALL EXPOSED STRUCTURAL STEEL (MISCELLANEOUS) SHALL BE PAINTED IN ACCORDANCE WITH THE ARCHITECTURAL DRAWINGS.

THE DESIGN TEAM MAY CONSIDER AN ALTERATE TO GALVANIZED AND PAINTED STEEL. CONTRACTORS OPTION: SUBMIT AN APPROPRIATE EPOXY PAINT SYSTEM FOR REVIEW.

WOOD FRAMING

ALL WOOD DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH FOLLOWING STANDARDS: AMERICAN WOOD COUNCIL NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION WITH 2018 SUPPLEMENT (AWC NDS-2018)

AMERICAN WOOD COUNCIL SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC (AWC SDPWS-2015)

ALL STRUCTURAL WOOD MEMBERS, INCLUDING EXTERIOR WALL STUDS, SHALL BE #2 SOUTHERN PINE OR EQUIVALENT WITH THE FOLLOWING COMBINATIONS OF UNIT STRESSES, UNLESS NOTED OTHERWISE ON THE DRAWINGS:

1.100 PSI EXTREME FIBER STRESS IN BENDING COMPRESSION PARALLEL TO GRAIN 1,150 PSI MODULUS OF ELASTICITY 1.400.000 PSI SHEAR STRESS 135 PSI

ALL PRESSURE TREATED STRUCTURAL WOOD MEMBERS SHALL BE #1 SOUTHERN PINE OR EQUIVALENT WITH THE FOLLOWING COMBINATIONS OF UNIT STRESSES, UNLESS NOTED OTHERWISE ON THE DRAWINGS (BASED ON 2X8 LUMBER):

> EXTREME FIBER STRESS IN BENDING 1,250 PSI COMPRESSION PARALLEL TO GRAIN 1,500 PSI MODULUS OF ELASTICITY 1,600,000 PSI SHEAR STRESS 175 PSI

ALL NON-STRUCTURAL WALL STUDS SHALL BE SPF STUD GRADE OR EQUIVALENT WITH THE FOLLOWING COMBINATIONS OF UNIT STRESSES, UNLESS NOTED OTHERWISE ON THE DRAWINGS:

> EXTREME FIBER STRESS IN BENDING 675 PSI COMPRESSION PARALLEL TO GRAIN 725 PSI MODULUS OF ELASTICITY 1,200,000 PSI SHEAR STRESS 135 PSI

ALL STRESS GRADE LUMBER MEMBERS SHALL BE CLEARLY STAMPED WITH THE LUMBER INSPECTION ASSOCIATION SEAL SHOWING THE STRESS GRADE. ALL FABRICATION, ERECTION AND OTHER PROCEDURES 2. DEFERRED SUBMITTALS (DRAWINGS AND CALCULATIONS) NOTED BELOW SHALL BE SIGNED AND SEALED SHALL CONFORM TO THE CURRENT "NATIONAL DESIGN SPECIFICATION FOR STRESS GRADE LUMBER AND ITS

> WOOD FRAMING MEMBERS SHALL NOT BE CUT OR DRILLED UNLESS SO AUTHORIZED BY THE PROJECT STRUCTURAL ENGINEER.

ALL BEAMS INDICATED ON PLANS, INCLUDING MULTIPLE MEMBER BEAMS ARE TO BE CONTINUOUS BETWEEN SUPPORTS. NO SPLICES ARE PERMITTED WITHIN SPAN. SPLICES ARE PERMITTED AT SUPPORTS ONLY.

ALL EXTERIOR STUD WALLS SHALL BE CONTINUOUSLY BRIDGED WITH WOOD BLOCKING AT A MAXIMUM SPACING OF 4'-0" ON CENTER BETWEEN THE FLOORS AND THE ROOF. ALL STUD WALLS SHALL HAVE A MINIMUM OF TWO 2X TOP PLATES. ALL TOP PLATE SPLICES SHALL BE STAGGERED AND LOCATED OVER WALL STUDS.

ALL CONNECTIONS SHALL BE IN ACCORDANCE TO THE AFPA'S "NATIONAL DESIGN SPECIFICATION".

ALL WOOD CONNECTIONS SHALL BE PER FASTENING SCHEDULE OF CHAPTER 23 OF THE CURRENT IBC.

ALL BOLTS REQUIRE WASHERS WHERE BOLT HEAD OR NUT IS IN CONTACT WITH WOOD. BOLT HOLES TO BE NO MORE THAN 1/16" LARGER THAN BOLT DIAMETER.

WHERE MULTIPLE MEMBERS ARE INDICATED ON THE DRAWINGS, MECHANICALLY FASTEN OR NAIL THE MEMBERS TO EACH OTHER IN ORDER FOR THE MEMBERS TO SHARE THE SUPERIMPOSED LOADS PER THE FASTENING SCHEDULED IN THE CURRENT IBC.

ALL CONNECTIONS SHALL BE DESIGNED AND INSTALLED WITH PREFABRICATED GALVANIZED STEEL CONNECTORS.

ALL EXPOSED WOOD OR TIMBER SHALL BE PRESSURE TREATED.

ALL FASTENERS IN CONTACT WITH ACQ TREATED TIMBER SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL. THE USE OF ALUMINUM OR MILD STEEL FASTENERS IN ACQ TREATED TIMBER IS NOT PERMITTED

FIRE RETARDANT TREATED LUMBER SHALL BE PROVIDED IF INDICATED ON THE ARCHITECTURAL DRAWINGS.

WOOD ROOF TRUSSES

SEE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR TRUSS CONFIGURATIONS, LOCATIONS AND DETAILS.

ROOF TRUSSES SHALL BE DESIGNED BY THE TRUSS MANUFACTURER FOR THE LOADS INDICATED. SUBMIT COMPLETE SHOP DRAWINGS AND CALCULATIONS INCLUDING TRUSS LOADING, FRAMING PLANS, BEARING. BRIDGING AND CONNECTION DETAILS. SEE THE "CONTRACTOR RESPONSIBILITIES" AND "SUBMITTAL" NOTES FOR ADDITIONAL REQUIREMENTS. ERECTION DRAWINGS, TRUSS CALCULATIONS, AND CONNECTION CALCULATIONS MUST BE STAMPED AND SIGNED BY THE TRUSS DESIGNER AND SUBMITTED TOGETHER AS ONE SUBMITTAL.

THE MAXIMUM TRUSS TOTAL LOAD SPAN/DEFLECTION RATIO SHALL BE L/240. THE MAXIMUM TRUSS TOTAL LIVE LOAD DEFLECTION RATIO SHALL BE L/360.

WOOD ROOF TRUSSES SHALL BE FABRICATED WITH TOOTHED METAL PLATES DESIGNED AND INSTALLED PER THE TRUSS PLATE INSTITUTE SPECIFICATIONS. TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH TPI-1, "NATIONAL DESIGN STANDARD FOR METALPLATECONNECTED WOOD TRUSS CONSTRUCTION". SEE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR TRUSS CONFIGURATIONS, LOCATIONS AND DETAILS.

ALL ROOF TRUSSES SHALL BE CONNECTED WITH APPROVED HOLD-DOWN CLIPS. THE TRUSS DESIGNER CAN SELECT A HOLD-DOWN CLIP THAT IS DIFFERENT THAN SHOWN ON THESE STRUCTURAL DRAWINGS, AS LONG AS CALCULATIONS ARE PROVIDED.

ALL TRUSS TO TRUSS CONNECTORS ARE TO BE DESIGNED OR SELECTED BY THE TRUSS ENGINEER THE ROOF TRUSS IS CONSIDERED A SYSTEM AND STABILITY OF THE ROOF TRUSS SYSTEM ABOVE THE ELEVATION OF THE TRUSS SUPPORTS IS THE RESPONSIBILITY OF THE ROOF TRUSS MANUFACTURER. TRUSS MANUFACTURER IS RESPONSIBLE FOR THE DESIGN AND DETAILING OF ALL TEMPORARY AND PERMANENT BRIDGING REQUIRED FOR THE STABILITY OF THE ROOF TRUSS SYSTEM. ADTEK WILL NOT BE RESPONSIBLE FOR THE DESIGN OF TEMPORARY OR PERMANENT BRIDGING OR BRACING REQUIRED BY OR FOR THE ROOF

THE ROOF TRUSSES SHALL NOT BE CUT OR DRILLED UNLESS SO AUTHORIZED BY THE TRUSS MANUFACTURER.

WOOD/TIMBER SHEATHING SHALL BE IDENTIFIED WITH THE APA GRADE TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

GLUE AND FASTEN WOOD SHEATHING TO ROOF AND FLOOR MEMBERS PER DETAILS.

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CIVIL/MARINE **MOFFATT & NICHOL** 4700 FALLS OF NEUSE ROAD SUITE 300 RALEIGH, NC 27609 (919) 78-4626

PROJECT: **JOHN WARNER** MARITIME HERITAGE CENTER

> RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA



TALL SHIPS PROVIDENCE FOUNDATION



WIND COMPONENT & CLADDING LOAD SCHEDULE

a = SMALLER OF: 10% OF LEAST HORIZ, DIM. OR 0.4h BUT NOT LESS THAN 4% OF LEAST HORIZ, DIM. OR 3 ft.

	POSITIVE F	PRESSURE		NEG	ATIVE PRESS	SURE	
AREA (SQ. FT.)	ZONE 4 (PSF)	ZONE 5 (PSF)	ZONE 1 (PSF)	ZONE 2 (PSF)	ZONE 3 (PSF)	ZONE 4 (PSF)	ZONE 5 (PSF)
10	35	35	-35	-41	-41	-38	-47
20	34	34	-34	-40	-40	-37	-44
50	32	32	-31	-37	-37	-35	-40
100	30	30	-30	-30	-30	-33	-37

POSITIVE AND NEGATIVE SIGNS ON VALUES IN SCHEDULE INDICATE PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACE. RESPECTIVELY

ZONES 1, 2, AND 3 ARE FOR ROOFS, ZONES 4 AND 5 ARE FOR WALLS, SEE DIAGRAM ABOVE FOR THE GENERAL WIND PRESSURE ZONE DIAGRAM IDENTIFYING EXTENTS OF WIND PRESSURE ZONES.

VALUES GIVEN ARE FOR <u>700 YEAR</u> MRI (MEAN RECURRANCE INTERVAL) AS REQUIRED FOR STRENGTH CALCULATIONS. ALTERNATE DESIGN VALUES MAY BE USED PROVIDED SUPPORTING CALCULATIONS, SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION, ARE SUBMITTED FOR REVIEW.

APRIL 2, 2021

PERMIT SET

ISSUANCE HISTORY - THIS SHEET

STRUCTURAL

2135-015-00

HGA NO:

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

S200 SCALE: 1/4" = 1'-0"

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> STRUCTURE ADTEK ENGINEERS. INC 150 S. EAST STREET SUITE 201 FREDERICK, MD 21701

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PROJECT: **JOHN WARNER** MARITIME HERITAGE **CENTER**

RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA



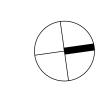
TALL SHIPS PROVIDENCE **FOUNDATION**



TOP OF DECK **FRAMING PLAN**

APRIL 2, 2021

PERMIT SET



BARGE PER

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

S201

ATTIC TRUSS WALL SECTION - INTERIOR

1. SEE SHEET S001 FOR STRUCTURAL NOTES AND S400 SERIES FOR TYPICAL DETAILS.

3. SEE ARCHITECTURAL DRAWINGS FOR THE LOCATION OF ALL NON-BEARING WALLS.

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

5. CONTRACTOR SHALL COORDINATE MECHANICAL UNIT WEIGHTS AND OPENINGS WITH

4. SEE MECHANICAL, PLUMBING AND DRAWINGS FOR INFORMATION.

NOTED ON PLAN.

2x4 EXT. WALL

MEZZANINE FRAMING PLAN

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

FRAMING BELOW

2. REFER TO THE ARCHITECTURAL DRAWINGS FOR INFORMATION AND DIMENSIONS NOT SHOWN.

ARCHITECTURAL AND MECHANICAL DRAWINGS. MAXIMUM OPERATING WEIGHT FOR UNIT IS NOTED ON PLAN. COORDINATE WITH TRUSS MANUFACTURER IF SELECTED UNIT WEIGHT EXCEEDS WEIGHTS

PERMIT SET

FRAMING

APRIL 2, 2021

PLAN

PER PLAN

PERIMETER

BEAM PER PLAN

BARGE PER PLAN

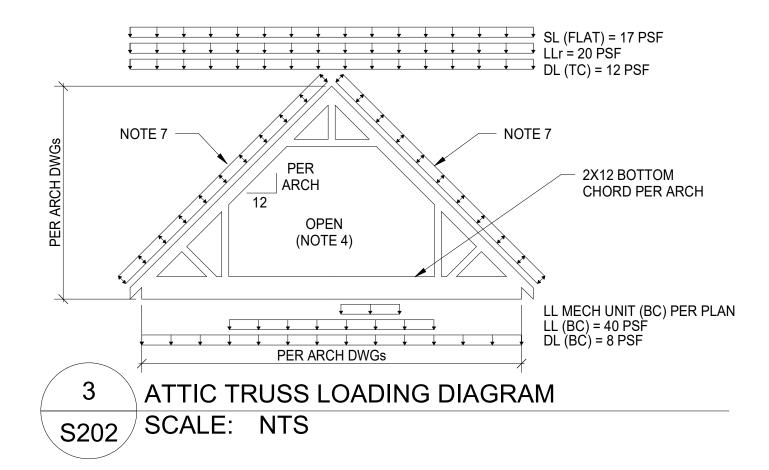
S201 SCALE: 3/4" = 1'-0"

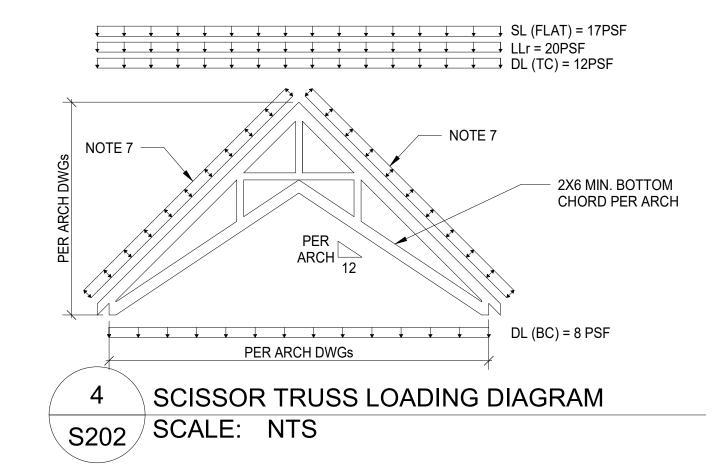
COTTAGE 2 END WALL SECTION

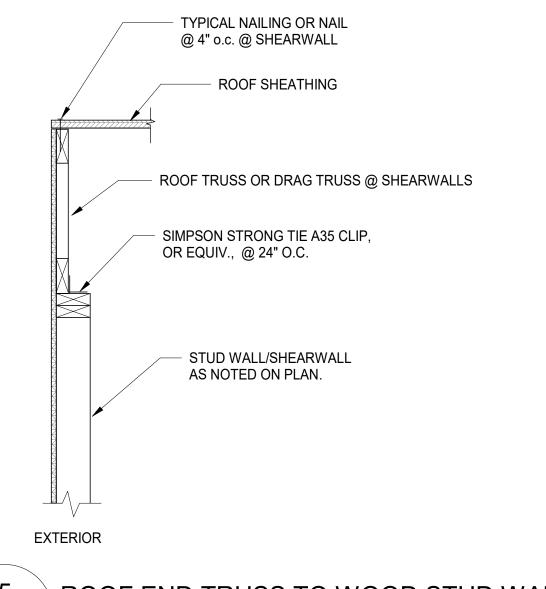
PRE-FABRICATED WOOD TRUSS NOTES:

- 1. TRUSS SPACING SHALL BE 2'-0" O.C. MAXIMUM UNLESS NOTED OTHERWISE ON PLANS. FINAL TRUSS LAYOUT SHALL BE BY TRUSS MANUFACTURER.
- 2. TRUSS WEB MEMBERS, IF SHOWN, ARE SCHEMATIC IN NATURE ONLY. FINAL WEB CONFIGURATION
- SHALL BE BY TRUSS MANUFACTURER.

 3. TRUSS MANUFACTURER SHALL SIZE ALL MEMBERS BASED UPON LOADS SHOWN AND CODE REQUIRED WIND LOADS UNLESS LARGER MEMBER SIZE IS NOTED ON ARCHITECTURAL DRAWINGS. PROVIDE CALCULATIONS, STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE JURISDICTION OF THE PROJECT.
- 4. REFER TO ARCHITECTURAL DRAWINGS FOR TRUSS DIMENSIONS, AND TOP AND BOTTOM CHORD SLOPES.
- 5. TRUSS MANUFACTURER SHALL COORDINATE MECHANICAL DUCT LOCATIONS AND PROVIDE CONSISTENT OPENINGS TO ALLOW DUCT STRAIGHT RUNS.
- 6. IT IS THE CONTRACTOR'S AND TRUSS MANUFACTURER'S RESPONSIBILITY TO VERIFY DIMENSIONS AND RIDGE LINES WITH ARCHITECTURAL DRAWINGS.
- 7. COMPONENTS AND CLADDING TOP CHORD WIND LOADS SHALL BE IN ACCORDANCE WITH COMPONENTS AND CLADDING CHART AND CODES NOTED IN THE STRUCTURAL GENERAL NOTES.
- 8. UPLIFT / HOLDDOWN CLIPS ARE TO BE VERIFIED BY TRUSS MANUFACTURER BASED ON DEAD LOADS AND THE VERTICAL AND HORIZONTAL COMPONENT WIND LOADS. REDUCTIONS IN LOADS WILL NOT BE ACCEPTABLE.
- 9. COMBINE LOADS PER LOAD COMBINATIONS IN ASCE 7.







SCALE: NTS ROOF END TRUSS TO WOOD STUD WALL

HGA

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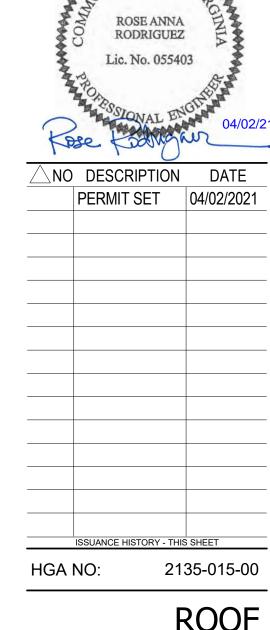
CIVIL/MARINE MOFFATT & NICHOL 4700 FALLS OF NEUSE ROAD SUITE 300 RALEIGH, NC 27609 (919) 78-4626

PROJECT:
JOHN WARNER
MARITIME HERITAGE
CENTER

RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA



AGENCY:
TALL SHIPS PROVIDENCE
FOUNDATION

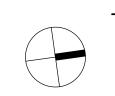


ROOF FRAMING PLAN

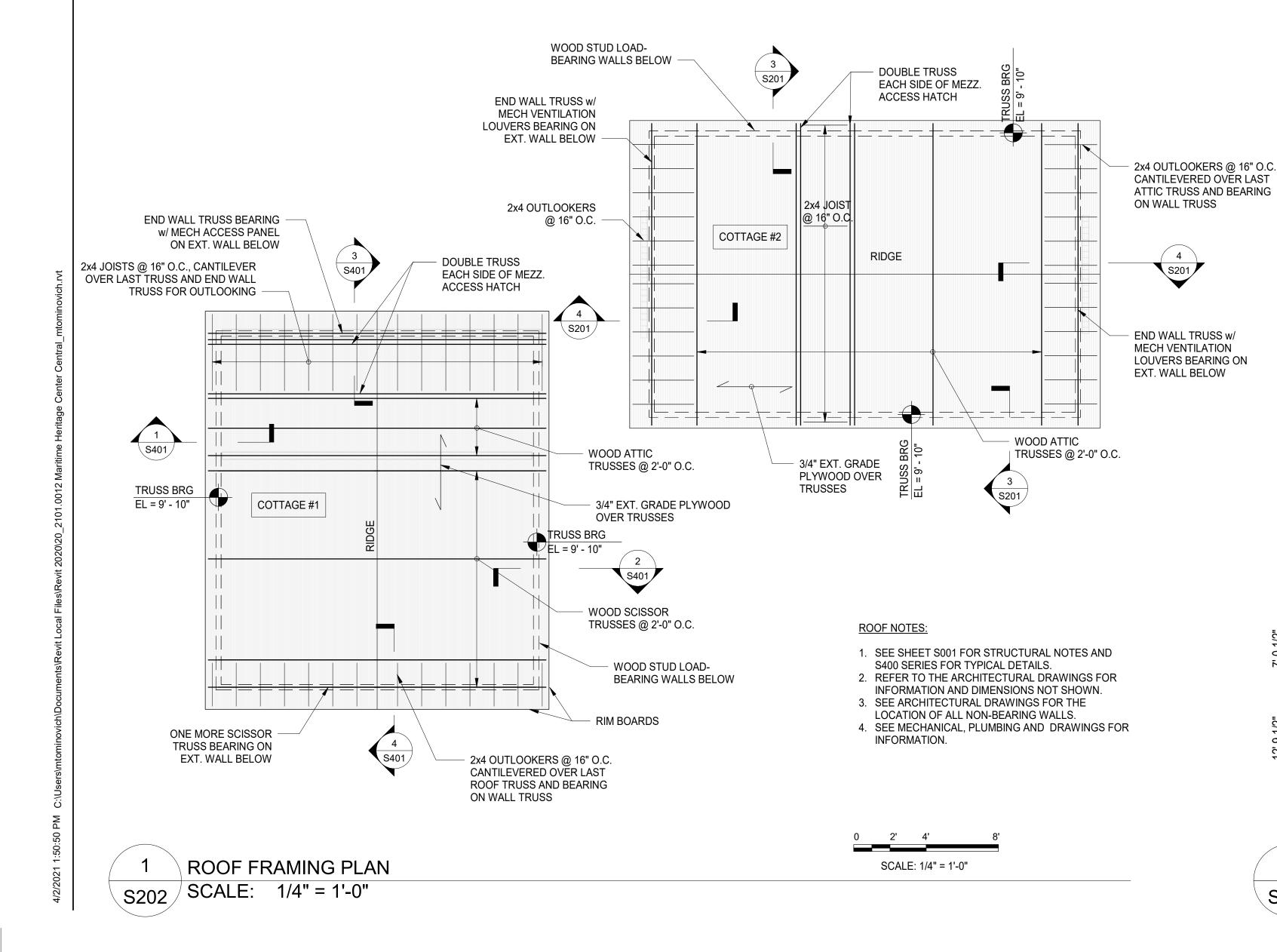
DATE: APRIL 2, 2021

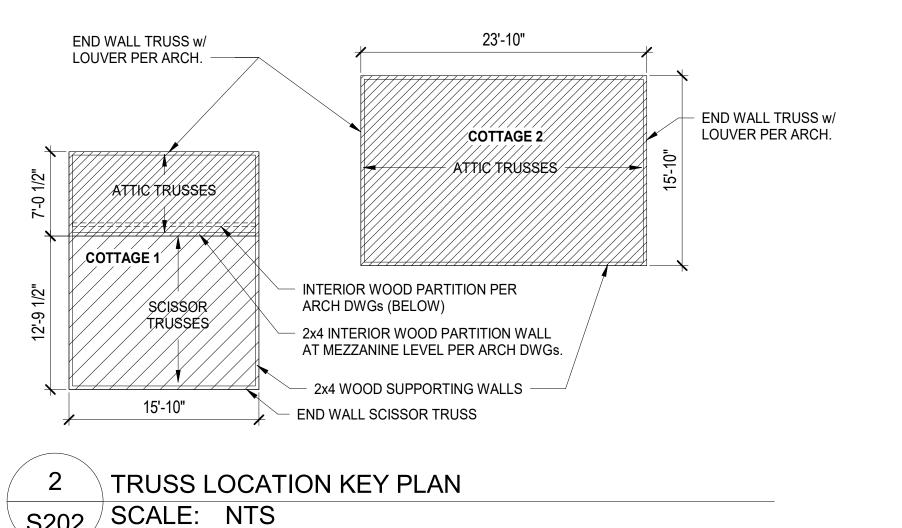
PERMIT SET

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S202





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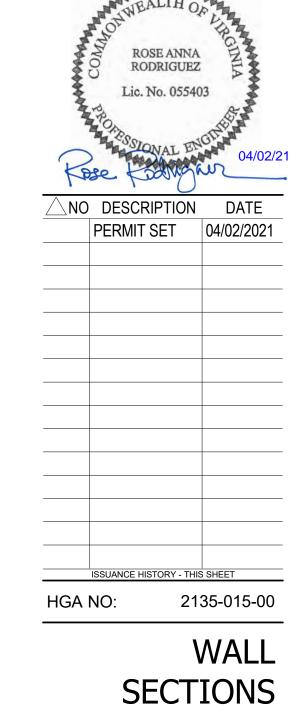
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RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA

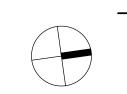


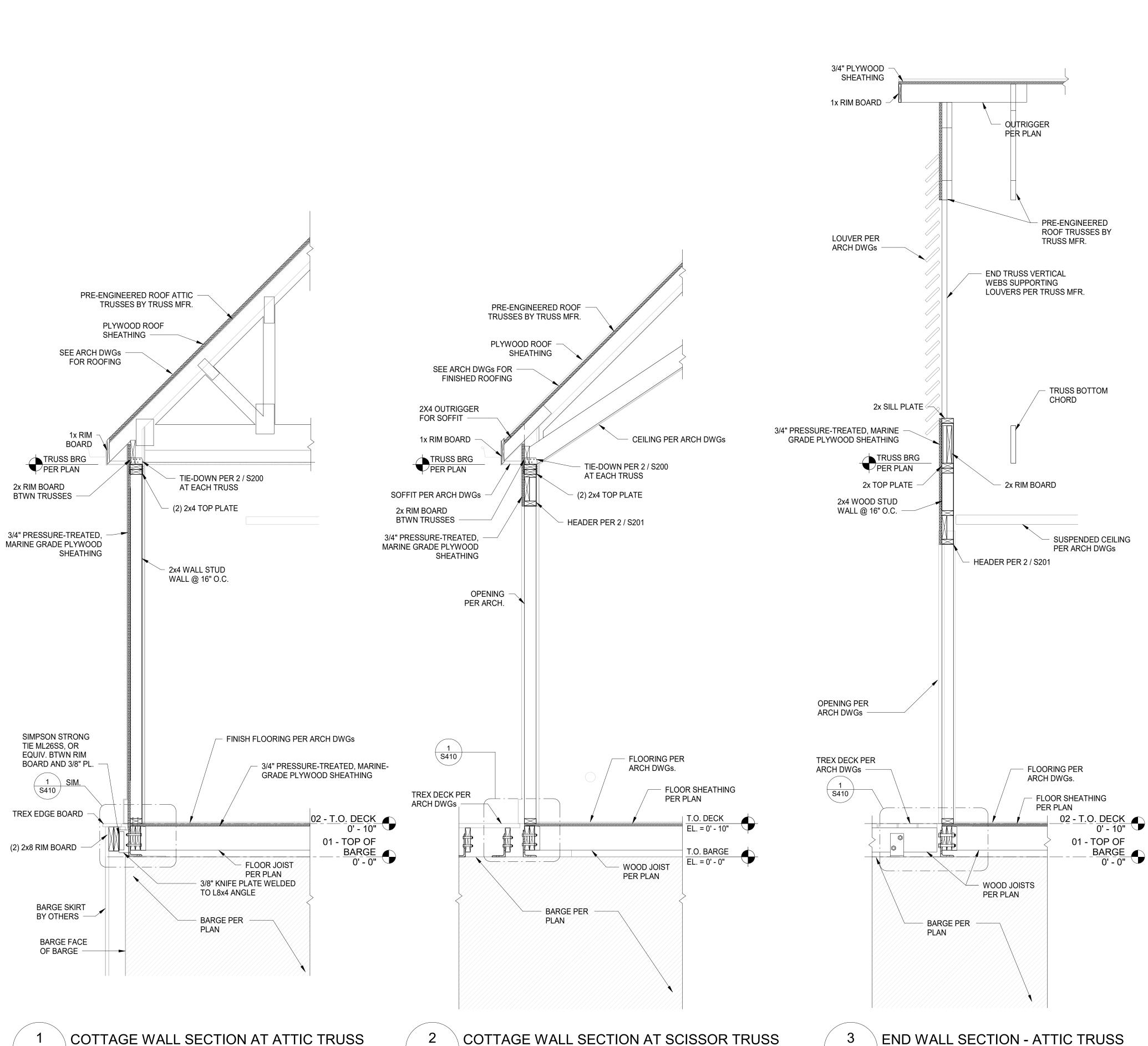
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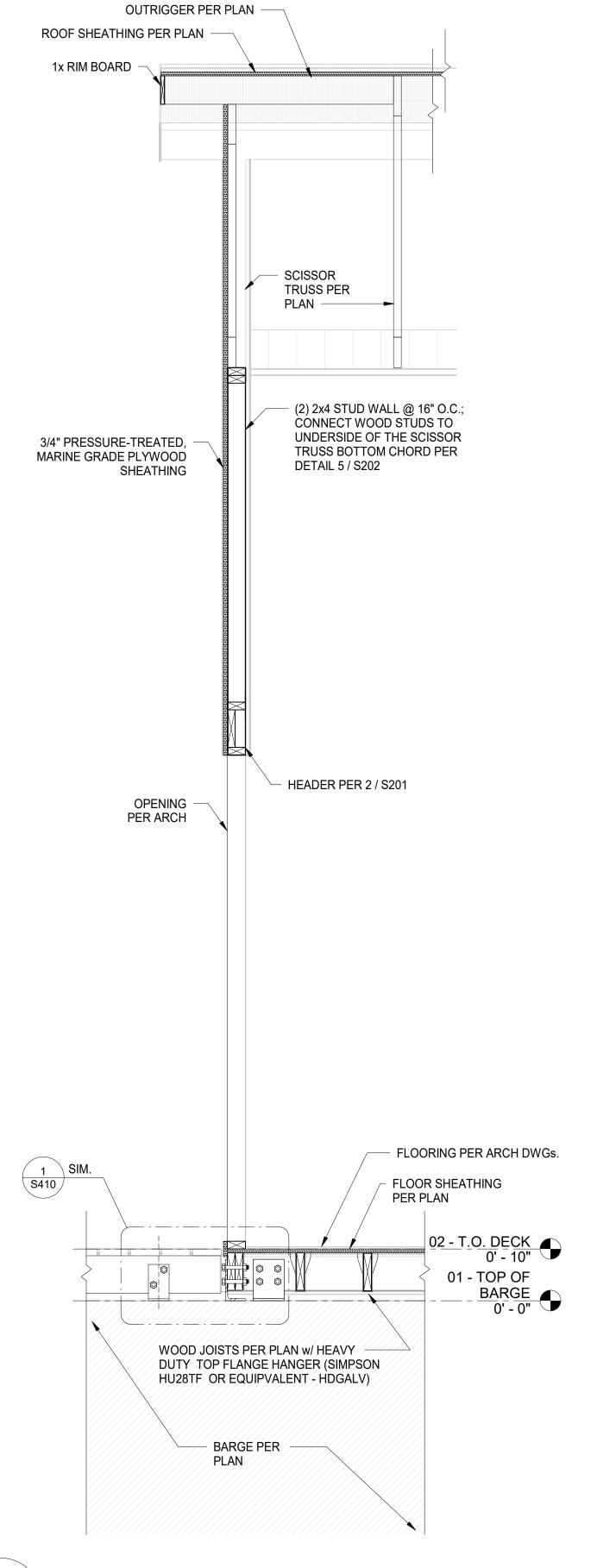
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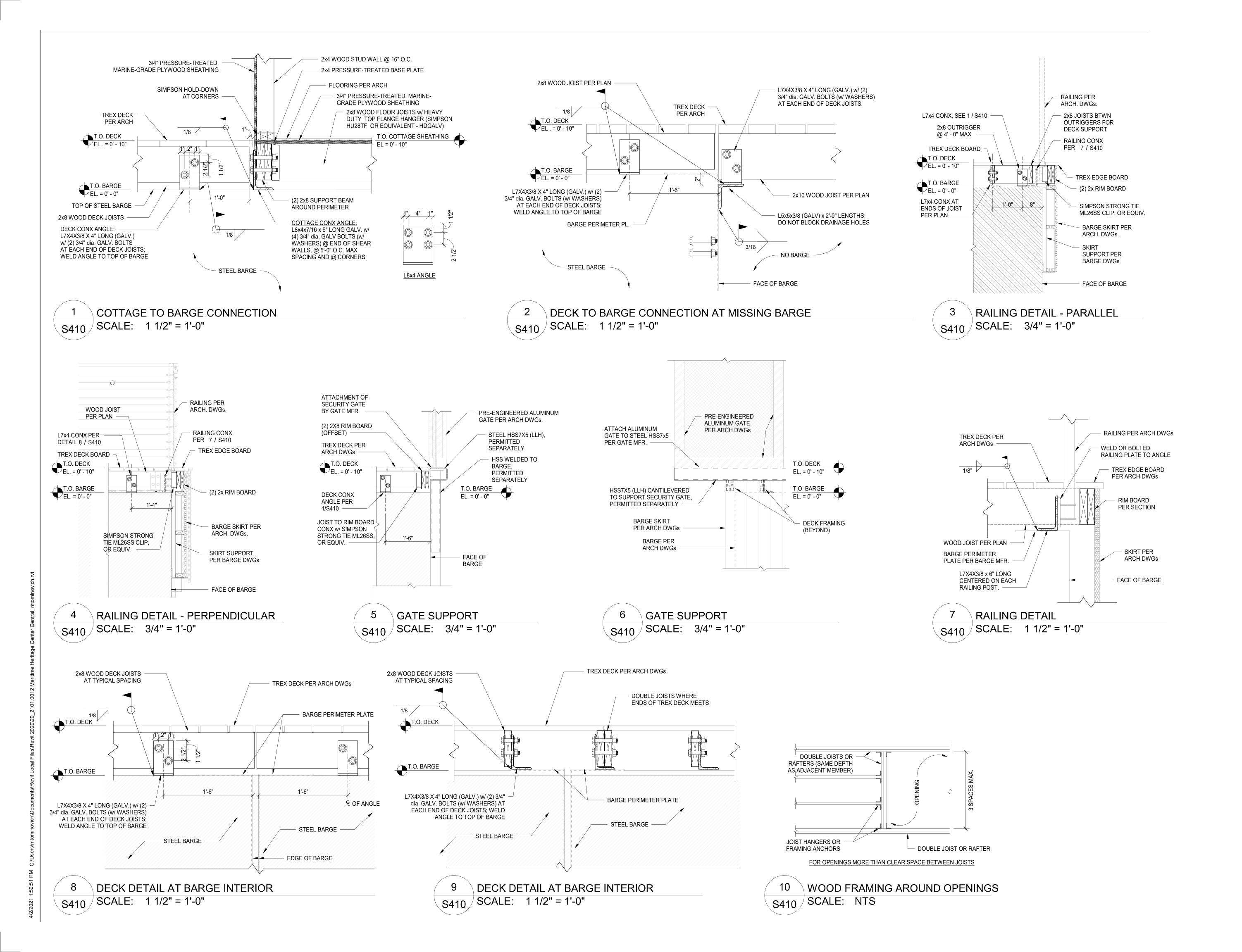
S401 | SCALE: 3/4" = 1'-0"

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



END WALL SECTION - SCISSOR TRUSS / SCALE: 3/4" = 1'-0"

S401 | SCALE: 3/4" = 1'-0"



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DECK LEVEL DETAILS

DATE: APRIL 2, 2021

PERMIT SET



5410

REFER ALSO TO EM800 IN ELECTRICAL DRAWINGS FOR MORE INFORMATION

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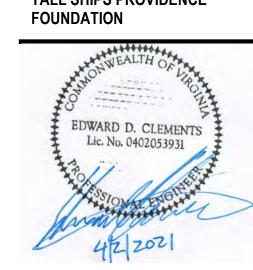
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RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA



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GENERAL NOTES AND SYMBOLS

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FAIRFAX, VA 22030

MOFFATT & NICHOL

RALEIGH, NC 27609

4700 FALLS OF NEUSE ROAD

Project Information

2015 IECC Energy Code: Project Title: Tall Ships Foundation Location: Alexandria, Virginia Climate Zone: Project Type: New Construction

Construction Site: Alexandria, VA 22314 Owner/Agent: Claire Sassin Tall Ships Foundation Alexandria, VA 22314

Edward Clements 44 Canal Center Plaza Suite 100 Alexandria, VA 22314 703.317.6013

Designer/Contractor:

Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

Mechanical Systems List

Additional Efficiency Package(s)

Quantity System Type & Description

- 1 Cottage 2 VRF System (Unknown): VRF Condensing Unit, Air Cooled Heat Pump Heating Mode: Capacity = 37 kBtu/h, No minimum efficiency requirement applies Cooling Mode: Capacity = 34 kBtu/h, No minimum efficiency requirement applies Fan System: Unspecified
- Cottage 2 VRF fan coi Theater (Unknown): Cooling: 1 each - VRF Zone Fan Unit, Capacity = 24 kBtu/h, No Economizer, Economizer exception: Low Capacity Residential No minimum efficiency requirement applies

Fan System: FCU 2 - Compliance (Brake HP method) : Passes

- FAN 2 Supply, Single-Zone VAV, 688 CFM, 0.3 motor nameplate hp, 0.3 design brake hp (0.3 max. BHP), 70.0 fan efficiency grade Pressure Drop Credits: Particulate filtration credit: MERV 9 through 12, 0.0678 credit
- Cottage 2 VRF Fan coil Gift (Unknown): Cooling: 1 each - VRF Zone Fan Unit, Capacity = 10 kBtu/h, No Economizer, Economizer exception: Low Capacity Residential No minimum efficiency requirement applies Fan System: FCU 1 - Compliance (Brake HP method): Passes
- FAN 3 Supply, Single-Zone VAV, 320 CFM, 0.3 motor nameplate hp, 0.1 design brake hp (0.1 max. BHP), 70.0 fan efficiency grade Pressure Drop Credits: Particulate filtration credit: MERV 9 through 12, 0.0384 credit
- Cottage 1 VRF System (Unknown): VRF Condensing Unit, Air Cooled Heat Pump Heating Mode: Capacity = 50 kBtu/h, No minimum efficiency requirement applies. Cooling Mode: Capacity = 46 kBtu/h, No minimum efficiency requirement applies Fan System: Unspecified

Project Title: Tall Ships Foundation Data filename: N:\2100\2135\015-00\04 Work\Shared\Tall Ships.cck

☐Not Observable

☐Not Applicable

Report date: 03/25/21 Page 1 of 14

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.2.4. 5, C403.2.4.	Snow/ice melting system sensors for future connection to controls. Freeze protection systems have automatic	□Complies □Does Not	Exception: Requirement does not apply.

Additional Comments/Assumptions:

controls installed.

Quantity System Type & Description

- Cottage 1 VRF Fan Coil copy 1 (Single Zone): Cooling: 1 each - VRF Zone Fan Unit, Capacity = 48 kBtu/h, No Economizer, Economizer exception: Low Capacity Residential No minimum efficiency requirement applies Fan System: FCU 3 -- Compliance (Brake HP method): Passes
- FAN 1 Supply, Single-Zone VAV, 1377 CFM, 0.8 motor nameplate hp, 0.6 design brake hp (0.6 max. BHP), 70.0 fan efficiency
- Pressure Drop Credits: Particulate filtration credit: MERV 9 through 12, 0.1368 credit
- Water Heater 1: Electric Storage Water Heater, Capacity: 6 gallons w/ Heat Trace Tape Installed No minimum efficiency requirement applies

Mechanical Compliance Statement

Project Title: Tall Ships Foundation

Data filename: N:\2100\2135\015-00\04 Work\Shared\Tall Ships.cck

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.0.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Section #	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
& Req.ID	Training Adagnetic Hispertion	Compilear	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6] ³	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Exception: Requirement does not apply.
C404.5, C404.5.1, C404.5.2 [PL6] ³	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C404.5, C404.5.1, C404.5.2 PL6] ³	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C404.5, C404.5.1, C404.5.2 [PL6] ³	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C404.5, C404.5.1, C404.5.2 [PL6] ³	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C404.5, C404.5.1, C404.5.2 [PL6] ³	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C404.6.1, C404.6.2 [PL3] ¹	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Exception: Requirement does not apply.
C404.6.3 [PL7] ³	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	□Complies □	Exception: Requirement does not apply.
C404.6.3 PL7] ³	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C404.6.3 [PL7] ³	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C404.6.3 PL7] ³	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C404.6.3 PL7] ³	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Exception: Requirement does not apply.

1 High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Project Title: Tall Ships Foundation Data filename: N:\2100\2135\015-00\04 Work\Shared\Tall Ships.cck

COMcheck Software Version 4.1.0.0 **Inspection Checklist**

Energy Code: 2015 IECC

Requirements: 100.0% were addressed directly in the COMcheck software Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception

is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR2] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C103.2 [PR3] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C406 [PR9] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. Location on plans/spec: M002

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

☐Not Observable

☐Not Applicable

□Does Not

Additional Comments/Assumptions:

Project Title: Tall Ships Foundation

Data filename: N:\2100\2135\015-00\04 Work\Shared\Tall Ships.cck

C404.6.3 Pumps that circulate water between a Complies

C404.7 Water distribution system that pumps UComplies

C404.7 Water distribution system that pumps Complies

water from a heated-water supply Does Not pipe back to the heated-water source through a cold-water supply pipe is a demand recirculation water system.

Water distribution system that pumps ☐Complies

water from a heated-water supply Does Not

Water distribution system that pumps \(\subseteq Complies \)

water from a heated-water supply Does Not

pipe back to the heated-water source through a cold-water supply pipe is a demand recirculation water system.

pipe back to the heated-water source through a cold-water supply pipe is a demand recirculation water system.

that limit operation from startup to

<= 5 minutes after end of heating

water from a heated-water supply

Pumps within this system have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to

Pumps within this system have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to

Pumps within this system have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to

Pumps within this system have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and

Pumps within this system have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to

limits the temperature of the water entering the cold-water piping to

C404.7 Water distribution system that pumps Complies

water from a heated-water supply Does Not pipe back to the heated-water source through a cold-water supply pipe is a demand recirculation water system.

heater and storage tank have controls Does Not

Plumbing Rough-In Inspection Complies?

pipe back to the heated-water source Not Observable

through a cold-water supply pipe is a demand recirculation water system.

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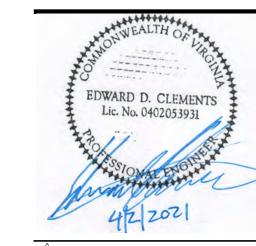


Report date: 03/25/21

Comments/Assumptions

Exception: Requirement does not apply.

Page 3 of 14



TALL SHIPS PROVIDENCE

FOUNDATION

\triangle NO	DESCRIPTION	DATE
	PERMIT SET	04/02/2021
	ISSUANCE HISTORY - TH	S SHEET
HGA		35-015-00

MECHANICAL

APRIL 2, 2021

PERMIT SET

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Tall Ships Foundation Report date: 03/25/21 Page 4 of 14 Data filename: N:\2100\2135\015-00\04 Work\Shared\Tall Ships.cck

Report date: 03/25/21

Report date: 03/25/21

Page 2 of 14

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) Project Title: Tall Ships Foundation Page 5 of 14

Data filename: N:\2100\2135\015-00\04 Work\Shared\Tall Ships.cck

Page 6 of 14

Report date: 03/25/21

STRUCTURE

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Alexandria, Virginia 22314

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FAIRFAX, VA 22030

MOFFATT & NICHOL

RALEIGH, NC 27609

4700 FALLS OF NEUSE ROAD

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Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.7 [PL8] ³	Water distribution system that pumps water from a heated-water supply pipe back to the heated-water source through a cold-water supply pipe is a demand recirculation water system. Pumps within this system have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.

Additional Comments/Assumptions:

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41] ³	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Exception: Requirement does not apply.
C403.2.12 .1 [ME65] ³	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. See the Mechanical Systems list for values.
C403.2.12 .1 [ME65] ³	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. See the Mechanical Systems list for values.
.3	Fans have efficiency grade (FEG) >= 67. The total efficiency of the fan at the design point of operation <= 15% of maximum total efficiency of the fan.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
.3	Fans have efficiency grade (FEG) >= 67. The total efficiency of the fan at the design point of operation <= 15% of maximum total efficiency of the fan.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.2.13 [ME71] ²	Unenclosed spaces that are heated use only radiant heat.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Exception: Requirement does not apply.
C403.2.3 [ME55] ²	HVAC equipment efficiency verified.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	See the Mechanical Systems list for values.
C403.2.6. 1 [ME59] ¹	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C403.2.6. 2 [ME115] ³	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Exception: Requirement does not apply.
C403.2.7 [ME57] ¹	Exhaust air energy recovery on systems meeting Table C403.2.7(1) and C403.2.7(2).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Exception: Requirement does not apply.
C403.2.8 [ME116] ³	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Exception: Requirement does not apply.
C403.2.9 [ME60] ²	HVAC ducts and plenums insulated. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation Inspection.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) Project Title: Tall Ships Foundation Report date: 03/25/21 Data filename: N:\2100\2135\015-00\04 Work\Shared\Tall Ships.cck

Page 8 of 14

Report date: 03/25/21

Page 7 of 14

C403.2.9. Ductwork operating >3 in. water ☐ Complies Exception: Requirement does not apply. column requires air leakage testing. □Does Not ☐Not Observable ☐Not Applicable Exception: Requirement does not apply. C403.2.9. Ductwork operating >3 in. water Complies column requires air leakage testing. □Does Not ☐Not Observable ☐Not Applicable C403.2.9. Ductwork operating >3 in. water ☐Complies Exception: Requirement does not apply. column requires air leakage testing. □Does Not ☐Not Observable ☐Not Applicable C403.2.9. Ductwork operating >3 in. water ☐ Complies Exception: Requirement does not apply. column requires air leakage testing. □Does Not ☐Not Observable ☐Not Applicable C403.2.9. Ductwork operating >3 in. water Complies Exception: Requirement does not apply. column requires air leakage testing. □Does Not ☐Not Observable ☐Not Applicable C403.4.2. Closed-circuit cooling tower within Exception: Requirement does not apply. ☐ Complies 3.2.1 heat pump loop have either automatic \(\subseteq \text{Does Not} \) [ME121]³ bypass valve or lower leakage positive closure dampers. Open-circuit tower within heat pump loop have automatic Not Applicable valve to bypass all heat pump water flow around the tower. Open- or closed-circuit cooling towers used in conjunction with a separate heat exchanger have heat loss by shutting down the circulation pump on the cooling tower loop. C403.4.2. Closed-circuit cooling tower within

Complies Exception: Requirement does not apply. 3.2.1 heat pump loop have either automatic Does Not [ME121]³ bypass valve or lower leakage positive Not Observable closure dampers. Open-circuit tower within heat pump loop have automatic Not Applicable valve to bypass all heat pump water flow around the tower. Open- or closed-circuit cooling towers used in conjunction with a separate heat exchanger have heat loss by shutting down the circulation pump on the cooling tower loop. C403.4.4. Multiple zone VAV systems with DDC Complies Exception: Requirement does not apply. of individual zone boxes have static □Does Not See the Mechanical Systems list for values. [ME110]³ pressure setpoint reset controls. ☐Not Observable □Not Applicable C403.4.4. Multiple zone VAV systems with DDC Complies Exception: Requirement does not apply. of individual zone boxes have static □Does Not [ME110]³ pressure setpoint reset controls. See the Mechanical Systems list for values. ☐Not Observable ☐Not Applicable

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) Project Title: Tall Ships Foundation Report date: 03/25/21 Data filename: N:\2100\2135\015-00\04 Work\Shared\Tall Ships.cck Page 9 of 14

Final Inspection Complies? Comments/Assumptions C403.2.4. Each zone equipped with setback ☐Complies Requirement will be met. controls using automatic time clock or Does Not [FI39]³ programmable control system. ☐Not Observable ☐Not Applicable Requirement will be met. (heat) and 85°F (cool); 7-day clock, 2- ☐Does Not C403.2.4. hour occupant override, 10-hour ☐Not Observable 2.2 backup ☐Not Applicable Exception: Requirement does not apply. Complies

[FI40]3 C403.2.4. Systems include optimum start 2.3 controls. □Does Not ☐Not Observable ☐Not Applicable C403.2.4. Systems include optimum start ☐ Complies Exception: Requirement does not apply. 2.3 controls. □Does Not ☐Not Observable ☐Not Applicable Requirement will be met. C403.2.4. Systems include optimum start ☐ Complies 2.3 controls. □Does Not ☐Not Observable □Not Applicable C404.3 Heat traps installed on supply and □ Complies Requirement will be met. [FI11]³ discharge piping of non-circulating □Does Not systems. ☐Not Observable □Not Applicable C404.4 All piping insulated in accordance with Complies Requirement will be met. [F[25]² section details and Table C403.2.10. Does Not ☐Not Observable ☐Not Applicable C408.2.1 Commissioning plan developed by Complies Requirement will be met. [FI28]¹ registered design professional or □Does Not approved agency. ☐Not Observable ☐Not Applicable C408.2.3. HVAC equipment has been tested to Complies Exception: Unitary or packaged HVAC eqiupment without ☐Does Not supply air economizers. ensure proper operation. ☐Not Observable ☐Not Applicable C408.2.3. HVAC control systems have been □ Complies Requirement will be met.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Tall Ships Foundation Data filename: N:\2100\2135\015-00\04 Work\Shared\Tall Ships.cck

tested to ensure proper operation,

C408.2.4 Preliminary commissioning report

C408.2.5. Furnished HVAC as-built drawings

agency.

[FI7]³ acceptance.

[FI10]¹ calibration and adjustment of controls. Not Observable

[FI29]¹ completed and certified by registered ☐Does Not design professional or approved

submitted within 90 days of system

Report date: 03/25/21 Page 12 of 14

[ME10]² static pressure and location. □Does Not ☐Not Observable ☐Not Applicable

Complies

Comments/Assumptions

Requirement will be met.

Mechanical Rough-In Inspection Complies?

C403.2.9 Ducts and plenums sealed based on

& Req.ID

PROJECT: **JOHN WARNER** MARITIME HERITAGE **CENTER**

> RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA 22314



TALL SHIPS PROVIDENCE FOUNDATION

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MECHANICAL

APRIL 2, 2021

PERMIT SET

Mechanical Rough-In Inspection Complies? Comments/Assumptions & Req.ID C403.4.4. Multiple zone VAV systems with DDC Complies Exception: Requirement does not apply. of individual zone boxes have static Does Not See the Mechanical Systems list for values. [ME110]³ pressure setpoint reset controls. ☐Not Applicable C403.4.4. Multiple zone VAV systems with DDC Complies Exception: Requirement does not apply. of individual zone boxes have static Does Not See the Mechanical Systems list for values. [ME110]³ pressure setpoint reset controls. ☐Not Applicable C403.4.4. Multiple zone VAV systems with DDC Complies Exception: Requirement does not apply. of individual zone boxes have static Does Not See the Mechanical Systems list for values. [ME110]³ pressure setpoint reset controls. ☐Not Applicable C408.2.2. Air outlets and zone terminal devices

Complies Requirement will be met. have means for air balancing. □Does Not ☐Not Observable ☐Not Applicable C403.5, Refrigerated display cases, walk-in ☐ Complies Exception: Requirement does not apply. C403.5.1, coolers or walk-in freezers served by Does Not C403.5.2 remote compressors and remote ☐Not Observable [ME123]³ condensers not located in a condensing unit, have fan-powered Not Applicable condensers that comply with Sections C403.5.1 and refrigeration compressor

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

systems that comply with C403.5.2.. Additional Comments/Assumptions:

Project Title: Tall Ships Foundation

Data filename: N:\2100\2135\015-00\04 Work\Shared\Tall Ships.cck

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5. 3 [FI8] ³	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.2.2 [Fl27] ³	HVAC systems and equipment capacity does not exceed calculated loads.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.2.4. 1 [FI47] ³	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.2.4. 1 [FI47] ³	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.2.4. 1 [FI47] ³	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.2.4. 1 [FI47] ³	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.2.4. 1 [FI47] ³	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.2.4. 1.1 [FI42] ³	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.2.4. 1.1 [FI42] ³	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.2.4. 1.2 [FI38] ³	Thermostatic controls have a 5 °F deadband.	□Complies □Does Not	Requirement will be met.
		□Not Observable □Not Applicable	
C403.2.4. 1.3 [FI20] ³	Temperature controls have setpoint overlap restrictions.	☐Complies ☐Does Not ☐Not Observable	Requirement will be met.
		□Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Report date: 03/25/21 Page 11 of 14

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) Report date: 03/25/21

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Project Title: Tall Ships Foundation Page 10 of 14 Data filename: N:\2100\2135\015-00\04 Work\Shared\Tall Ships.cck

Project Title: Tall Ships Foundation Data filename: N:\2100\2135\015-00\04 Work\Shared\Tall Ships.cck

□Does Not

☐ Complies

☐ Complies

□Does Not

□Not Applicable

☐Not Observable

☐Not Applicable

☐Not Observable ☐Not Applicable

Requirement will be met.

Requirement will be met.

Comments/Assumptions Complies? □Not Observable
□Not Applicable ☐Complies Requirement will be met. □Does Not ☐Not Observable

☐Not Applicable

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Report date: 03/25/21

Page 13 of 14

Project Title: Tall Ships Foundation

Data filename: N:\2100\2135\015-00\04 Work\Shared\Tall Ships.cck

Additional Comments/Assumptions:

Project Title: Tall Ships Foundation

Data filename: N:\2100\2135\015-00\04 Work\Shared\Tall Ships.cck

C408.2.5. Final commissioning report due to building owner within 90 days of [FI30]¹ receipt of certificate of occupancy.

Final Inspection

Section # & Req.ID

44 Canal Center Plaza, Suite 100 Alexandria, Virginia 22314 Telephone 703.836.7766

> STRUCTURE ADTEK ENGINEERS. INC 9990 FAIRFAX BLVD #300 FAIRFAX, VA 22030 (703) 691-4040

CIVIL/MARINE MOFFATT & NICHOL 4700 FALLS OF NEUSE ROAD SUITE 300 RALEIGH, NC 27609 (919) 78-4626

PROJECT: **JOHN WARNER MARITIME HERITAGE CENTER**

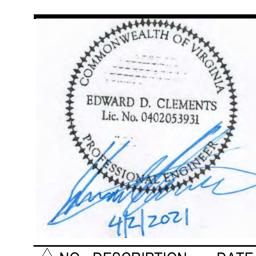
RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA



AGENCY: Tall ships providence FOUNDATION

Report date: 03/25/21

Page 14 of 14



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	PERMIT SET		04/02/202
	ISSUANCE HISTORY	- THIS	SHEET
HGA	NO:	21	35-015-0

MECHANICAL COMCHECK

DATE: APRIL 2, 2021

MECHANICAL DRAWING SPECIFICATIONS

Conditions of Contract

Owner - Contractor Agreement: AIA form A107 with attached General Conditions. For payments, performance bond and completion time, see contract. Substitute the term "Engineer" for the term "Architect."

General Requirements:

Project Meetings: As designated by Owner - Contractor.

Protection, Safety and Security: Contractor responsible until acceptance by Owner.

Submittals: Shop drawings, equipment brochures, product data, list of materials, and list of subcontractors, maintenance manuals, and record set of drawings. Equipment shop drawings will include factory furnished product data, wiring diagrams, installation instructions, and operating instructions.

Construction Facilities and Temporary Controls: Construction heat, light and power, water, telephone, sanitary facilities, storage, hoisting facilities by contractor as required by project conditions.

Substitutions and Product Option Requests: Accepted prior to bid date.

Product Substitutions: Must have the engineer's approval. The contractor responsible for a substitution is responsible for all additional costs related to the substitution including but not limited to structural, electrical, and engineering costs.

Project Closeout: Instructions to Owner, systems and equipment startup and testing, clean up.

Liability Insurance: Adequate coverage by contractor to protect against liability. Provide completed operations; contractual hold-harmless; worker's compensation and employee's liability as required by law.

Auto Insurance: Adequate coverage by contractor.

Property Insurance: By Owner.

Code Compliance: In accordance with applicable codes.

Work included: Equipment, materials and work necessary for complete installation of systems by personnel skilled in each individual trade. Modify due to existing conditions as necessary to complete work.

Cutting and Patching: Do all cutting and patching to complete work, including systems. Return areas and surfaces to same condition as existed at the time work

Site Inspection: After site inspection, notify the engineer of any modification due to existing conditions.

Standards: Conform to SMACNA, ASHRAE, UL, NEC and NFPA standards. Notify engineer of conflicting data.

Installation: Equipment and material will be installed according to the manufacturer's written instructions.

Electrical Coordination: Refer to Division 26 (Electrical) construction documents for the electrical requirements of the mechanical equipment identified in the Division 22 and 23 (Plumbing and Mechanical) construction documents. The Division 26 contractor will provide power wiring. The Division 22 and 23 contractor(s) will provide Division 22/23 control wiring.

Structural Coordination: Mechanical work requiring structural support or openings shall be coordinated with the structural engineer, dock, cottage, and/or deck fabricators and installing contractor(s).

Hangers and Supports: Comply with requirements of state and local building codes, and amendments, and referenced standards if more restrictive than MSS SP-69

Mechanical Identification: Provide identification of mechanical and plumbing piping and duct systems. Comply with ASME A13.1, "Scheme for the Identification of Piping Systems" for lettering size, length of color field, colors, and viewing angles of identification devices. Provide standard stencils or preprinted duct/pipe labels, prepared with letter sizes conforming to recommendations of ASME A13.1. Minimum letter height is 1-1/4 inches for ducts and 3/4 inch for access door signs and

similar operational instructions. Wherever heat tracing is installed, provide warning labels according to manufacturer recommendations, but at not less than 10' o.c.

Insulation: Ducts, pipes, and mechanical and plumbing equipment will be insulated with fiberglass insulation in compliance with the State Code. All insulated cold surfaces will have a vapor barrier jacket. All piping and plumbing equipment installed outside the thermal envelope of the cottages shall be further protected by weather resistant jacketing. Type 3005 Aluminum pipe/tank jacket - or self-adhering insulation jacketing (minimum 60 mil – Alumaguard or 3M VentureClad). Duct insulation shall be a minimum of R-8.

Heat Tracing: All piping exposed to the outdoor elements shall be heat traced with a self-regulating electric heat trace cable. Minimum for piping is 5W/ft. Minimum for sewage ejector tank is 10W/ft. Provide factory thermostat controllers for the piping to maintain the pipe and contents temperature at or above 50 deg F. Provide an ambient controller to lock out heat tracing if ambient temperature is above 70 deg F (adjustable).

Motors: Provide high efficiency motors adequate for the designed use. Motors used in conjunction with variable frequency drives shall have a minimum service factor of 1.15 and be approved by the motor manufacturer for use with the drive.

Variable Frequency Drives: Provided by the same supplier as the controlled device. An external disconnect switch will also be provided by the drive supplier.

Vibration Control: Provide vibration control devices as manufactured by Mason Industries. Provide vibration isolation devices as indicated on the drawings and details

Plumbina

Water Distribution System: Comply with ASME B31.9, "Building Services Piping" for materials, products, and installation and NSF 61, "Drinking Water System Components-Health Effects" Sections 1 through 9 for potable-water piping and components. Water distribution piping will be copper tube: ASTM B 88, Types L and M, water tube, drawn temper with copper, solder-joint pressure fittings: ASME B16.18 cast-copper alloy or ASME B16.22 wrought copper.

Drainage and Vent Piping: Comply with ASME B31.9, "Building Services Piping" for materials, products, and installation, and with NSF 14, "Plastics Piping Components and Related Materials" for plastic piping components. Include marking with "NSF-dwv" for plastic drain, waste, and vent piping; "NSF-drain" for plastic drain piping; "NSF-tubular" for plastic continuous waste piping; and "NSF-sewer" for plastic sewer piping. Provide PVC plastic pipe: ASTM D 2665, Schedule 80 with PVC socket fittings: ASTM D 2665, made to ASTM D 3311 drain, waste, and vent pipe patterns. Piping and fittings located in air plenums will be hubless, cast-iron soil pipe: ASTM A 888 or CISPI 301 with heavy-duty, FM-approved, stainless-steel couplings: ASTM A 666, Type 304, stainless-steel housing; and stainless-steel clamps. Include gasket or bushing. Pumped waste piping shall be Schedule 80 CPVC.

Plumbing Specialties: Provide plumbing specialties indicated on the drawings and/or necessary to complete the plumbing systems. Required plumbing specialties include: backflow preventers, water regulators, water filters, thermostatic water mixing valves and water tempering valves, trap seal primer valves and systems, hose stations, sanitary hydrants, backwater valves, grease interceptors, grease recovery units, oil interceptors, oil storage tanks, and solids interceptors. Provide plumbing specialties where required to meet state and local codes and ordinances. Refer to equipment schedules on the drawings for floor and roof drain requirements.

Sewage Ejector: Provide sewage ejector system including pumps, pump lifting system, duplex alternating controller with alarms and power inverter, control wiring, steel basin, heat tracing, and connected piping. Since the basin will be installed in a location that is exposed to the air, it shall be capable of self-support on its sides without bolstering by external structure. The basin will be supported from below by the superstructure. Pumps shall be grinder type. Refer to schedules. Coordinate motor requirements with electrical service and electrical contractor.

Electric Water Heater: Provide a tank type electric water heater according to the plumbing schedules.

Plumbing Fixtures: Refer to the schedules on the drawings.

Hydronic Piping: Comply with the following ASME provisions: ASME B31.9, "Building Services Piping" for materials, products, and installation. Safety valves and pressure vessels shall bear the appropriate ASME label, fabricate and stamp air separators and compression tanks to comply with ASME Boiler and Pressure Vessel Code, Section VIII, Division 1. Welding Standards: Qualify welding processes and operators according to ASME Boiler and Pressure Vessel Code, Section IX, "Welding and Brazing Qualifications." Hydronic piping 3" inches and smaller will be drawn-temper copper tubing: ASTM B 88, Type L (ASTM B 88M, Type B) with wrought-copper fittings: ASME B16.22. Refrigerant piping will be copper type ACR with wrought joints and brazed fittings.

Variable Refrigerant Volume Fan Coils: Provide UL listed and labeled VRV heating and air-conditioning units. Refer to the equipment schedule for unit capacities and accessories. Provide a programmable master controller (i-Touch Manager for Daikin systems) to control indoor and outdoor unit operations. Controller shall be capable of sending alarms via email, text, or web-based interface. Mount fan coil units from spring + neoprene isolated hangers. Mount outdoor unit on neoprene isolators connected to structure. Refrigerant line sizing shall be completed by the equipment manufacturer using vendor available software. Equipment shown is the basis of design, but line sizes must be verified by the vendor prior to order. A complete VRF system including indoor and outdoor units, piping, branch selectors (as applicable), controller, controls, and wiring is required.

Metal Ducts: Comply with SMACNA standards and the State Building Code for the construction and installation of metal ducts. Metal ducts exposed in finished spaces shall not have visible scratches, dents, or other flaws.

Duct Accessories: Provide back draft dampers, manual volume dampers, fire dampers, smoke dampers, combination fire and smoke dampers, duct silencers, flexible ducts, duct-mounted access doors, turning vanes, and accessories hardware where indicated on the drawings and where required for the proper operation of the HVAC system.

Exhaust Fans: Direct drive, ceiling mounted fan with insulated housing. Energy star rated. UL/cUL 507 listed. Provide controller with time delay switch for operation when toilet room lights are turned on. Refer to Control Sequences. Provide backdraft damper in discharge duct.

Wall caps: Provide commercial wall caps for exhaust outlets and any outdoor air intake without a louver. Provide bird screens in wall cap duct.

Air Filters: Provide MERV 13 air filters for all fan coil units.

Electric Controls: Electric/electronic control devices and wiring will be provided to accomplish control sequences required to adequately control the mechanical equipment and accomplish specified control sequences.

Specified Control Sequences:

<u>Variable Refrigerant Volume</u> fan coils shall operate continuously to maintain the space temperature at the setpoint, as programmed into the master controller using factory packaged controls. Setpoints shall be user adjustable. Initial setpoint is 75 degrees cooling, 70 degrees heating. Off hours drift points shall be 80 degrees (cooling) 60 degrees (heating), and shall be adjustable. Factory optimal start control sequences are required.

Exhaust fans shall be engaged by an automatic timer connected via a relay to the lighting occupancy sensor. When lights are turned on, the exhaust fan shall run for a minimum of 15 minutes.

Sewage Ejector Alarm shall be connected to an external relay to send high water warning and high-water alarm level alarms to the VRV system controller for reporting of alarm via web interface.

Testing, Adjusting and Balancing: Testing, adjusting, and balancing of Division 22 and 23 systems will be provided by an AABC certified professional engineer. Submit certified preliminary and final balance reports for the engineer's approval and include the final reports in the Owner's operations and maintenance manuals.



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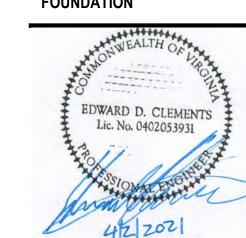
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PROJECT:
JOHN WARNER
MARITIME HERITAGE
CENTER

RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA 22314



AGENCY: TALL SHIPS PROVIDENCE FOUNDATION



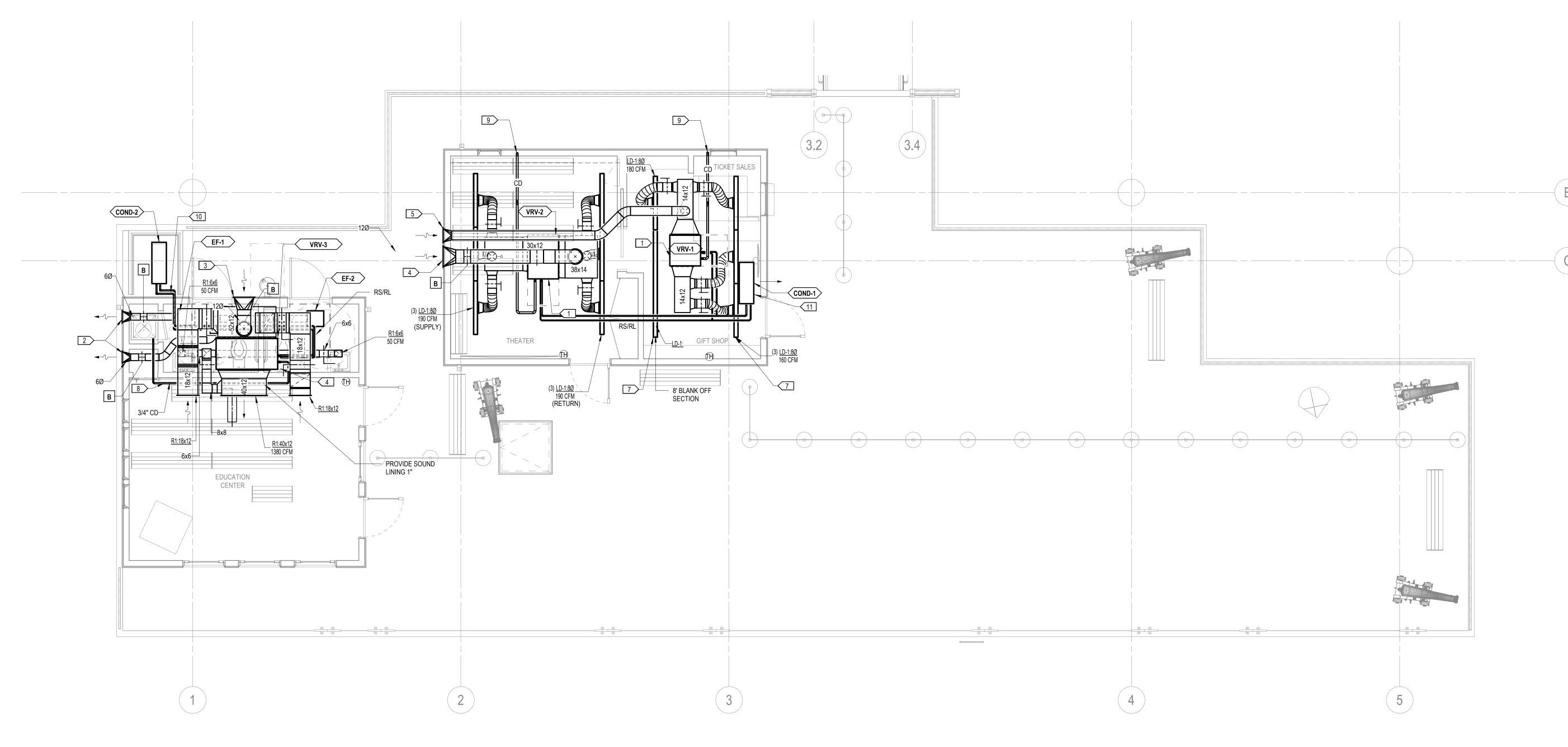
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MECHANICAL SPECS

DATE: APRIL 2, 2021

PERMIT SET

MOOF



1 MAIN LEVEL PLAN - HVAC

NEW CONSTRUCTION HVAC GENERAL NOTES:

- A. THE CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF DUCTWORK & ACCESSORIES. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE REVIEWED AND APPROVED BY ARCHITECT/ENGINEER PRIOR TO INSTALLATION.

 B. PROVIDE VOLUME DAMPERS AT EACH TAKEOFF ON SUPPLY,
- EXHAUST, AND RETURN GRILLES AND DIFFUSERS.
- C. COORDINATE WITH CEILING CONTRACTOR FOR EXACT LOCATION OF ALL SUPPLY DIFFUSERS & RETURN GRILLES LOCATED IN CEILINGS. COORDINATE ROUTING AND ELEVATION OF ALL DUCTWORK WTIH LIGHTING & CEILING ELEVATIONS. PROVIDE ALL NECESSARY OFFSETS IN DUCTWORK TO MAINTAIN CEILING ELEVATIONS. SEE ARCHITECTURAL REFLECTIVE CEILING PLAN. EQUIPMENT, PIPING AND DUCTWORK IDENTIFICATION SHALL COMPLY WITH OWNERS EXISTING IDENTIFICATION SYSTEM.

KEV NOTE

- LOCATE FCU'S AND HEAT PUMP IN LOUVERED ATTIC SPACE ABOVE
 OCCUPIED AREAS. INSULATE ALL DUCTWORK TO MINIMUM R8 FOR OUTDOOR
 DUCTWORK PER IECC.
- 2. PROVIDE WALL CAP AT EXHAUST TERMINATION: BROAN NU-TONE MODEL 647 ALUMINUM WALL CAP. FIELD PAINT WALL CAP TO MATCH ADJACENT WAL MATERIAL.
- 3. PROVIDE OUTSIDE 18X18 OUTSIDE AIR INTAKE LOUVER WITH BIRDSCREEN. BALANCE TO 250 CFM. BOD: DAYTON 5NKJ2
- 4. PROVIDE OUTSIDE 18X18 OUTSIDE AIR INTAKE LOUVER WITH BIRDSCREEN. BALANCE TO 250 CFM. BOD: DAYTON 5NKJ2
- 5. PROVIDE OUTSIDE 12X12 OUTSIDE AIR INTAKE LOUVER WITH BIRDSCREEN. BALANCE TO 50 CFM. BOD: DAYTON 45C669
- 6. LOCATE FCU IN ATTIC SPACE ABOVE BATHROOMS. MAINTAIN CLEAR SERVICE ACCESS.
- 7. CONTINUOUS LINEAR SLOT DIFFUSER WITH CONCEALED BORDER.
- 8. ROUTE CONDENSATE TO MOP SINK.
- 9. ROUTE CONDENSATE DOWN THROUGH STILL PLATE. TERMINATE AT OPEN ENDED PIPE MIN 12" BELOW TOP OF BARGE PLATFORM. SEAL PENETRATION WITH WEATHER TIGHT SEALANT. INSULATE EXPOSED CONDENSATE PIPE.
- 10. ROUTE RS/RL PIPING DOWN IN EXTERIOR WALL. SEAL WALL PENETRATION WITH WEATHER TIGHT FLASHING+SEALANT.
- 11. ALIGN CONDENSING UNIT SUCH THAT THE FAN BLOWS IMMEDIATELY OUT THROUGH THE LOUVER.

VRF SYSTEM GENERAL NOTES:

- A. VARIABLE REFRIGERANT FAN COIL UNITS, BRANCH SELECTOR BOXES AND REFRIGERANT PIPING BASED UPON DAIKIN EQUIPMENT. IF ANOTHER MANUFACTURER IS CHOSEN, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A VRF SYSTEM LAYOUT AND SELECTION USING THE VRF MANUFACTURER'S APPROVED DESIGN SOFTWARE. COORDINATE ALL REVISED PIPING, ELECTRICAL, DUCTWORK, AIRFLOW QUANTITIES, CONTROLS, ETC. CHANGES AND REVISIONS.
- B. REFRIGERANT PIPING CONSISTS OF SUCTION GAS PIPE, LIQUID PIPE, AND HIGH/LOW PRESSURE PIPING BETWEEN THE HRU'S AND THE BRANCH SELECTOR BOXES. ROUTING INDICATED ON DRAWINGS IS DIAGRAMMATIC ONLY. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR LAYOUT AND SIZING. SIZE PIPING AND DESIGN ACTUAL PIPING LAYOUT, INCLUDING OIL TRAPS, DOUBLE RISERS, SPECIALTIES, PIPE, AND TUBE SIZES TO ACCOMMODATE, AS A MINIMUM, EQUIPMENT PROVIDED, ELEVATION DIFFERENCE BETWEEN COMPRESSOR AND EVAPORATOR, AND LENGTH OF PIPING TO ENSURE PROPER OPERATION AND COMPLIANCE WITH WARRANTIES OF CONNECTED EQUIPMENT.
- C. MINIMUM 3/4" PUMPED CONDENSATE DRAIN FROM VRF FAN COIL UNITS. PUMPED CONDENSATE SHALL BE RAISED AS HIGH AS POSSIBLE, THEN CONNECTED INTO TOP OF GRAVITY CONDENSATE DRAIN THRU WYE FITTING. GRAVITY CONDENSATE DRAIN SHALL RUN AT 1% SLOPE TO POINT OF CONNECTION TO THE WASTE SYSTEM.
- D. SOME REFRIGERANT CIRCUITS ARE SHOWN AS SINGLE LINE PIPING FOR VISUAL CLARITY. SEE DETAILS AND PIPING DIAGRAMS FOR ADDITIONAL DETAIL.
- E. PROPSED THERMOSTAT LOCATIONS ARE INDICATED ON PLANS. COORDINATE FINAL LOCATIONS WITH FURNITURE VENDOR. F. SPECIFIED THERMOSTATS INCLUDE TEMPERATURE SENSING ELEMENT SUCH THAT UNITS CAN BE CONTROLLED BY EITHER WALL SENSOR OR RETURN AIR SENSOR INTERNAL TO AC UNIT.
- F. AT SYSTEM STARTUP, SET AC UNITS TO UTILIZE WALL THERMOSTAT TEMPERATURE SENSOR TO DETERMINE SUPPLY SETTINGS WITH THE FOLLOWING CAVEATS AND EXCEPTIONS: 1) WHERE THERMOSTAT IS LOCATED ON PERIMETER WALL, INTERNAL AC UNIT RA SENSOR SHALL BE USED. 2) WHERE MULTIPLE UNITS ARE CONTROLLED BY A COMMON THERMOSTAT, INTERNAL AC UNIT RA SENSOR SHALL BE USED. 3) WHERE MULTIPLE THERMOSTATS ARE ASSOCIATED WITH A SINGLE AC UNIT, POLLING OF ALL THERMOSTATS SHALL DETERMINE SUPPLY SETTING.

HGA

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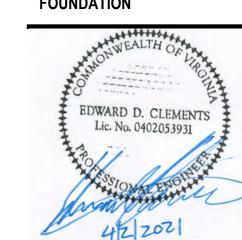
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PROJECT:
JOHN WARNER
MARITIME HERITAGE
CENTER

RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA



AGENCY:
TALL SHIPS PROVIDENCE
FOUNDATION



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	PERMIT SET	•	04/02/202	1
	ISSUANCE HISTORY	- THIS	SHEET	
HGA	NO:	213	35-015-0	0

MAIN LEVEL PLAN - HVAC

DATE: APRIL 2, 2021

PERMIT SET



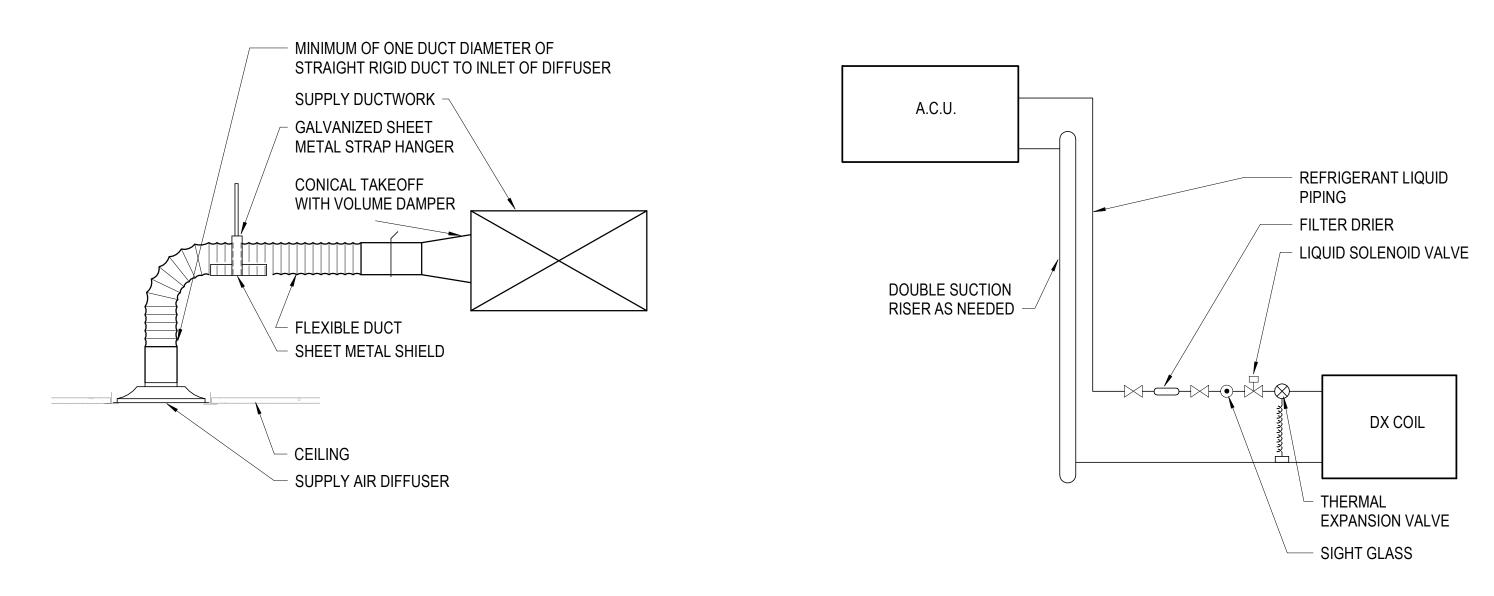
M201

- 1. VOLUME DAMPER
 RECTANGULAR DUCTS SINGLE BLADE FOR DUCTS 12" DEEP OR
 LESS, MULTIPLE BLADE FOR DUCTS GREATER THAN 12" DEEP.
 ROUND DUCTS SINGLE BLADE
- 2. RADIUS TRANSITION ELBOW
- 3. DUCT TRANSITION
- 4. $A = [(W3 \times D3) / ((W2 \times D2) + (W3 \times D3))] \times W1$ (A = 4" MIN.)
- 5. $B = [(W2 \times D2) / ((W2 \times D2) + (W3 \times D3))] \times W1$

BELLMOUTH ROUND CONNECTION.

6. 45 DEGREE SHOE TAP CONNECTION, MINIMUM 6" LONG.

3 SUPPLY AIR DUCTWORK CONNECTION NOT TO SCALE

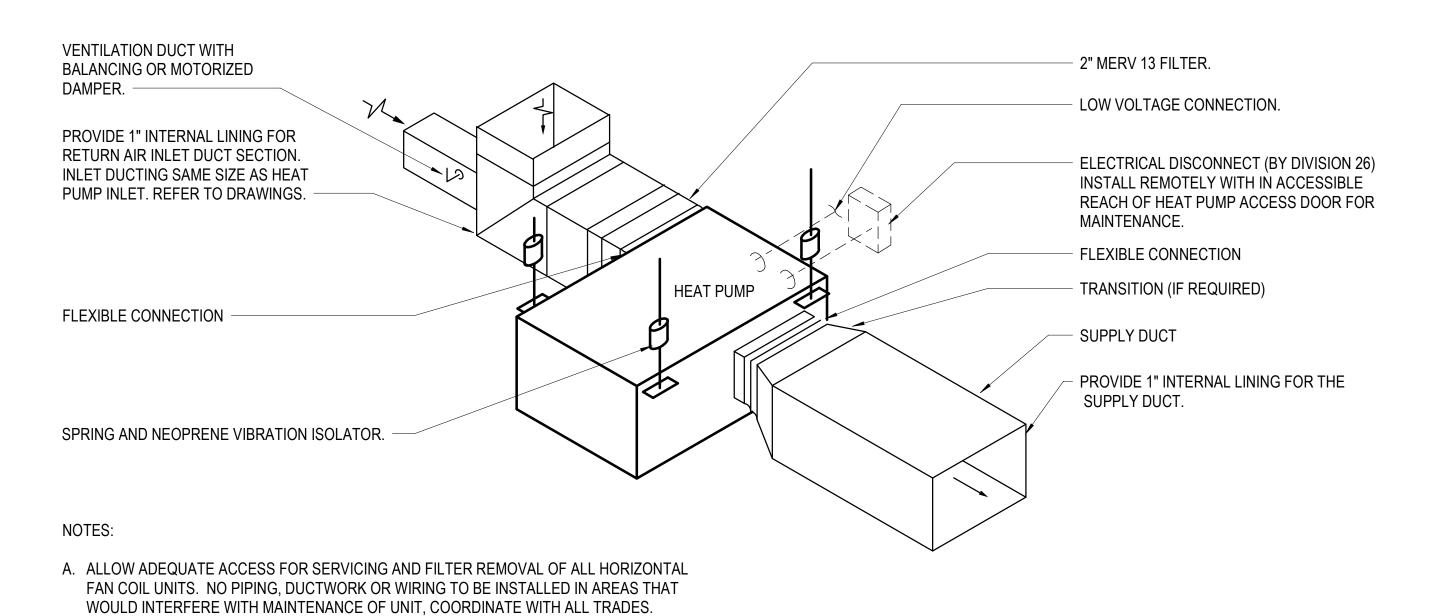


GENERAL NOTES:

A. PROVIDE GALVANIZED SHEET METAL HANGER AND SHIELD ON FLEXIBLE DUCT LENGTHS GREATER THAN 5'-0".

2 DUCT CONNECTION TO CEILING DIFFUSER
NOT TO SCALE

1 DX COIL/CONDENSING UNIT PIPING
NOT TO SCALE





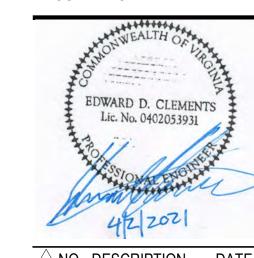
B. REFER TO PLANS FOR SUPPLY AIR & RETURN AIR DUCT CONFIGURATION

COTTAGE 2 - SINGLE ZONE VENTILATION TABLE											
System Name and Number	Condition Analyzed (impacts Ez)	Occupancy Category	Zone Floor Area Az (sq ft)	Are you using default value for zone population?	Zone Population Pz people	People Outdoor Air Rate Rp (cfm per person)	Area Outdoor Air Rate Ra (cfm per sq ft)	Breathing Zone Outdoor Airflow <i>Vbz</i> (cfm)	Zone Air Distribution Effectiveness Ez	Zone Outdoor Airflow <i>Voz</i> (cfm)	Outdoor air intake flow provided (measured or design) (cfm)
								Rp Pz + Ra Az		Vbz / Ez	
Cottage 2 - Gift Shop	Cooling	Sales	165	Yes	2.48	7.50	0.12	38.36	0.80	48	50
Cottage 2 - Theater	Cooling	Lecture classroom	200	No	25.00	7.50	0.06	199.50	0.80	249	250

RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA 22314



AGENCY:
TALL SHIPS PROVIDENCE
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MECHANICAL SCHEDULES AND DETAILS

DATE: APRIL 2, 2021

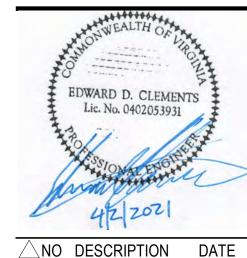
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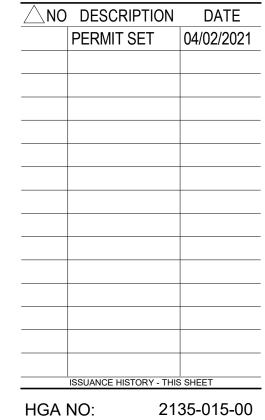
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RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA



AGENCY:
TALL SHIPS PROVIDENCE
FOUNDATION

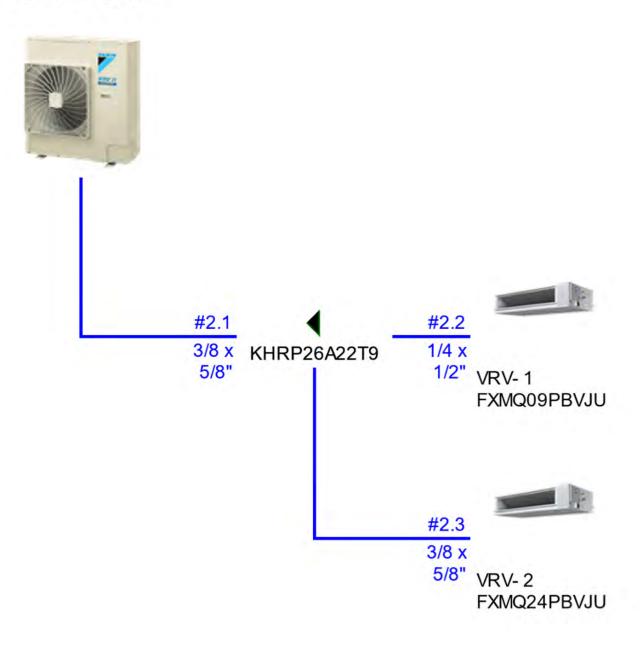




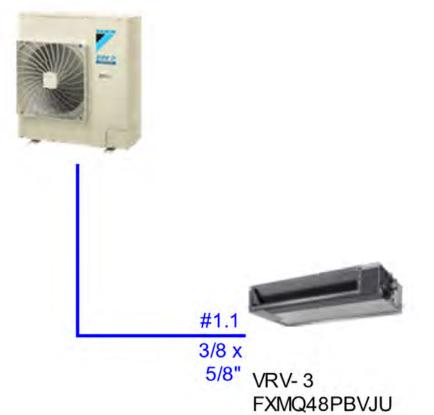
MECHANICAL SCHEMATICS

DATE: APRIL 2, 2021

PERMIT SET



COND-1 RXTQ48TAVJUA



GENERAL NOTES:

A. REFIGERANT PIPING DIAGRAMS ARE PROVIDED FOR GENERAL GUIDANCE REGARDING PIPE SIZE, DISTANCES, IN ADDITION TO GROUPING OF INDOOR UNITS, BRANCH SELECTOR BOXES AND OUTDOOR UNITS. CONTRACTOR SHALL SUBMIT FINAL DIAGRAMS OF PIPE ROUTING BASED ON FIELD CONDITIONS AND INTERDISCIPLINARY COORDIANTION DESCRIBED ON PLANS AND SPECIFICATIONS.

B. INFORMATION ON PLANS AND SCHEDULES SHALL TAKE PRECEDENCE OVER DIAGRAMS WHERE DISCREPANCIES ARE PRESENT.

VRF - INDOOR UNITS - FAN COIL SCHEDULE

				FAN	COOLING PERFORMANCE				HEATING PERFORMANCE				ELECTRICAL			BASIS OF DESIGN			
		OUTSIDE	SUPPLY				EA	NT	LAT										
UNIT		AIRFLOW	AIRFLOW		TOTAL CAPACITY S	SENSIBLE CAPACITY				HEATING CAPACITY			CONDENSATE						
NUMBER	UNIT TYPE	(CFM)	(CFM)	ESP (IN. WG)	(MBH)	(MBH)	DB (°F)	WB (°F)	DB (°F)	(MBH)	EAT (°F)	LAT (°F)	PUMP (Y/N)	MCA	VOLTAGE	PHASE	MANUFACTURER	MODEL	NOTES
VRV-1	DUCTED	50	320	0.2	9.5	7.8	80 °F	67 °F	58 °F	10.5	70 °F	86 °F	Y	0.6	208	1	DAIKIN	FXMQ09PVJU	HANG FROM SPRING + NEOPRENE ISOLATORS.
VRV-2	DUCTED	250	700	0.4	24.0	18.8	80 °F	67 °F	52 °F	27	70 °F	86 °F	Y	1.8	208	1	DAIKIN	FXMQ24PVJU	HANG FROM SPRING + NEOPRENE ISOLATORS.
VRV-3	DUCTED	250	1380	0.4	48.0	35.8	80 °F	67 °F	57 °F	54	70 °F	80 °F	Y	3.4	208	1	DAIKIN	FXMQ48PVJU	HANG FROM SPRING + NEOPRENE ISOLATORS.

	VRF - CONDENSING UNIT - AIR SOURCE										
				ELECTRICAL			BASIS OF DE	ESIGN			
UNIT		TOTAL COOLING	HEATING CAPACITY					SINGLE POINT			
NUMBER	SEER	CAPACITY @ 95°F (MBH)	@ 10°F (MBH)	MCA	MOCP	VOLTAGE	PHASE	CONN. (Y/N)	MANUFACTURER	MODEL	NOTES
COND-1	18	48.1	28.4	29.1	35	208	1	Υ	DAIKIN	RXTQ48TAVJUA	ANCHOR TO DECKING USING NEOPRENE ISOLATOR
COND-2	18	36.1	35.2	16.5	20	208	1	Υ	DAIKIN	RXTQ36TAVJUA	HANG FROM SPRING ISOLATORS

FAN -HVAC SCHEDULE													
						SOUND		MAX	ELECTRICAL		BASIS OF DESIGN		
							DAMPER TYPE	OPERATING					
		AIRFLOW		FAN SPEED		RATING	(MOTORIZED,	WEIGHT					
LOCATION	UNIT TYPE	(CFM)	ESP (IN. WG)	(RPM)	HP	(SONES)	GRAVITY, NA)	(LBS)	VOLTAGE	PHASE	MANUFACTURER	MODEL	NOTES
RESTROOM	CEILING MOUNTED	100	0.3	960	1/10	2	BACK DRAFT	12	120	1	GREENHECK	SP-110-VG	
RESTROOM	CEILING MOUNTED	100	0.3	960	1/10	2	BACK DRAFT	12	120	1	GREENHECK	SP-110-VG	
	RESTROOM	RESTROOM CEILING MOUNTED	LOCATIONUNIT TYPE(CFM)RESTROOMCEILING MOUNTED100	LOCATIONUNIT TYPE(CFM)ESP (IN. WG)RESTROOMCEILING MOUNTED1000.3	LOCATIONUNIT TYPE(CFM)ESP (IN. WG)(RPM)RESTROOMCEILING MOUNTED1000.3960	LOCATION UNIT TYPE (CFM) ESP (IN. WG) (RPM) HP RESTROOM CEILING MOUNTED 100 0.3 960 1/10	LOCATION UNIT TYPE (CFM) ESP (IN. WG) (RPM) HP (SONES) RESTROOM CEILING MOUNTED 100 0.3 960 1/10 2	AIRFLOW (CFM) ESP (IN. WG) FAN SPEED (RPM) HP (SONES) GRAVITY, NA) RESTROOM CEILING MOUNTED 100 0.3 960 1/10 2 BACK DRAFT	AIRFLOW CEILING MOUNTED 100 0.3 960 1/10 2 BACK DRAFT 12	AIRFLOW (CFM) ESP (IN. WG) (RPM) HP (SONES) BACK DRAFT 12 120	AIRFLOW (CFM) ESP (IN. WG) (RPM) HP SOUND RATING (MOTORIZED, GRAVITY, NA) (LBS) VOLTAGE PHASE RESTROOM CEILING MOUNTED 100 0.3 960 1/10 2 BACK DRAFT 12 120 1	AIRFLOW CEILING MOUNTED 100 0.3 960 1/10 2 BACK DRAFT 12 120 1 GREENHECK BASIS OF DE MAX ELECTRICAL BASIS OF DE MAX OPERATING (MOTORIZED, GRAVITY, NA) OPERATING (COLITION CEILING MOUNTED 100

	GRILLES, REGISTERS AND DIFFUSERS SCHEDULE (Smart)										
	GRILLES, REGISTERS AND DIFFUSERS SCHEDULE										
				BASIS O	F DESIGN						
TAG	USAGE	DESCRIPTION	FINISH	MAKE	MODEL	REMARKS					
LD-1	LINEAR SLOT DIFFUSER	TITUS FL-10 SLOT DIFUSER WITH CONCEALED MUD IN BORDER AND PLENUM FOR ACTIVE SECTIONS.	1	TITUS	FL-15						
R1	SUPPLY/RETURN/EXHAUS	DOUBLE DEFLECTION SURFACE MOUNTED REGISTER. TWO SETS INDIVIDUALLY ADJUSTABLE, FRONT SET HORIZONTAL LOUVERS, 3/4" LOUVER SPACING, OPPOSED BLADE DAMPER, 1-1/4" WIDE, 20 GA.	5	TITUS	300 FL						
	GRILLE	BORDER. 22 DEGREE DEFLECTION									

A. GRILLE AND REGISTER SIZES ARE NOTED ON THE HVAC FLOOR PLANS AND VENTILATION SCHEDULES

B. PROVIDE APPROPRIATE FRAME/BORDER/FLANGE FOR PROPER MOUNTING. REFER TO THE ARCHITECTURAL DRAWINGS FOR SURFACES IN WHICH GRILLES, REGISTERS, AND DIFFUSERS ARE LOCATED

C. MATERIAL/FINISH KEY (FOR SPECIFIC SPECIAL AREAS, SEE SPECIFICATIONS

1. ALUMINUM WITH STANDARD FACTORY WHITE ENAMEL FINISH

2. STEEL WITH STANDARD FACTORY WHITE ENAMEL FINISH.

3. POLISHED STAINLESS STEEL. 4. NATURAL ALUMINUM.

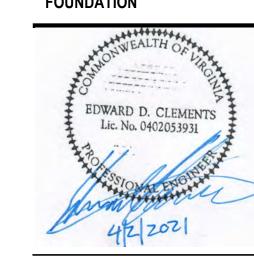
5. ANODIZED ALUMINUM: COLOR SELECTED BY ARCHITECT.

			COTTAC	GE 1 VENTILA	TION TABLE						
System name and number		Cottage 1									
Condition analyzed (impacts Ez Vdz, Vpz and Vp	5)	Cooling									
All zones are included in the VRP calculation		Yes									
Zone Name and Number		Occupancy Category	Zone Floor Area Az	Are you using default value for zone population?	Zone Population Pz	Zone Air Distribution Effectiveness	Zone Outdoor Airflow	Zone Discharge Airflow	Zone Primary Airflow	Zone Secondary Recirculation Fraction	Zone Primary Air Fraction
			(sq ft)	population	(people)	L	(cfm)	(cfm)	(cfm)		
			1		42.02	2.27	Vbz / Ez	7 2027			Vpz/Vdz
				E No	25.00	0.80	252.00	1,030	1,030	0.75	1.00
Education Center	Multi-use ass		235		25.00					0.75	1.00
Foilet Rooms	Multi-use ass Storage roon		99		0.00	0.80	14.25 0.00	100	100	0.75	1.00 0.00
AND THE REPORT OF THE PROPERTY	The second contract of			5 Yes	0.76-1-6-0-7		14.25			0.75	
System area System population Sum of zone population Occupant diversity Uncorrected outdoor air intake System primary airflow (at condition analyzed) Average outdoor air fraction Which method from ASHRAE 62.1 is being used to (Ev)?	As Ps sum of Pz D Vou Vps Xs	(sq ft) (people) (people) (cfm) (cfm)	33(24.0(25.0(0.9(205.5(1,13(0.1)	7 Yes	0.76-1-6-0-7		14.25			0.75	
System area System population Sum of zone population Occupant diversity Uncorrected outdoor air intake System primary airflow (at condition analyzed) Average outdoor air fraction Which method from ASHRAE 62.1 is being used to (Ev)? Ventilation efficiency	As Ps sum of Pz D Vou Vps Xs to determine system	(sq ft) (people) (people) (cfm) (cfm)	330 24.00 25.00 0.90 205.50 1,130 0.10 Table 6-3	7 Yes	0.76-1-6-0-7		14.25			0.75	
System area System population Sum of zone population Occupant diversity Uncorrected outdoor air intake System primary airflow (at condition analyzed) Average outdoor air fraction Which method from ASHRAE 62.1 is being used to (Ev)?	As Ps sum of Pz D Vou Vps Xs	(sq ft) (people) (people) (cfm) (cfm)	33(24.0(25.0(0.9(205.5(1,13(0.1)	7 Yes	0.76-1-6-0-7		14.25			0.75	

RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA



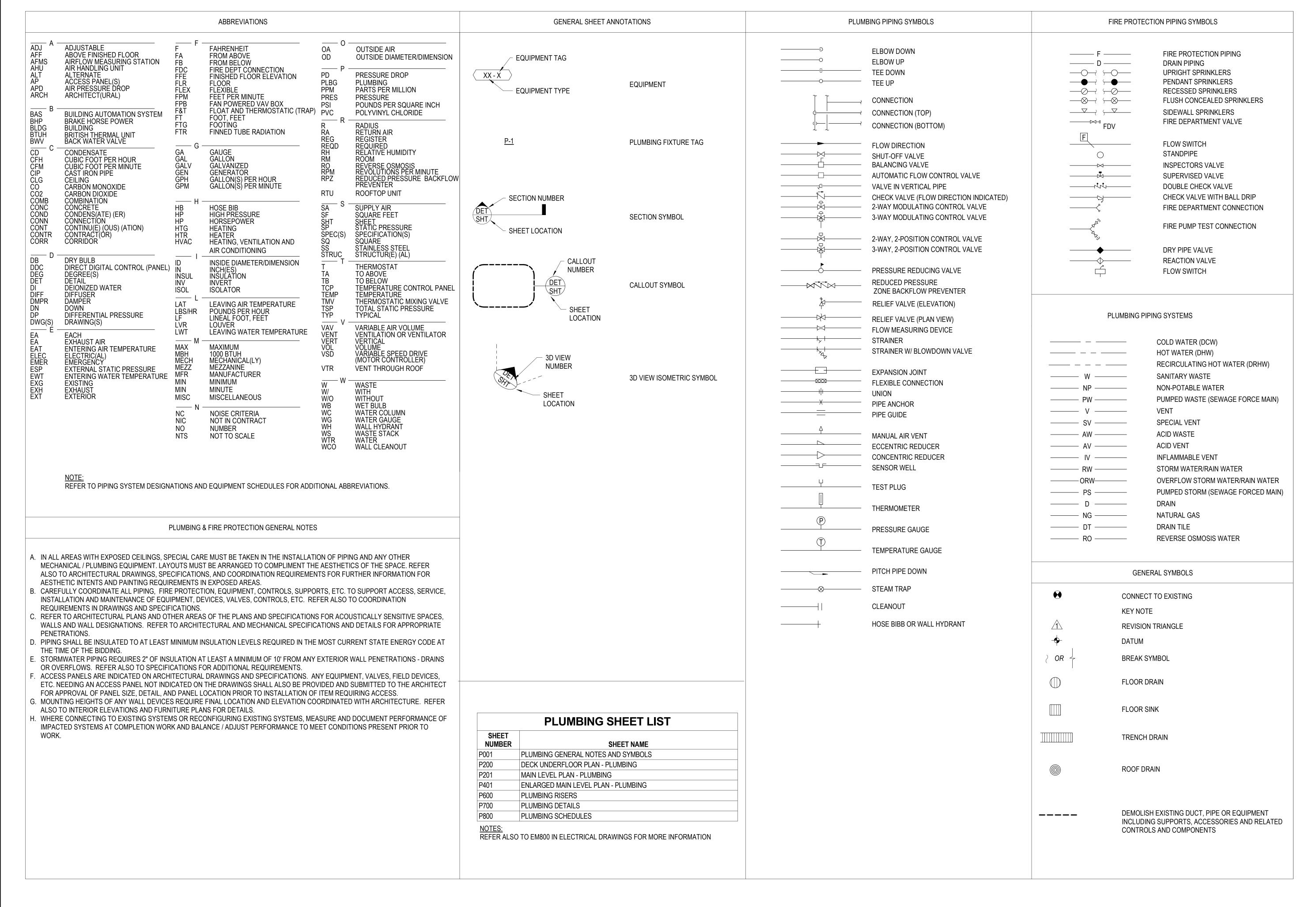
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MECHANICAL SCHEDULES

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PROJECT:
JOHN WARNER
MARITIME HERITAGE
CENTER

RIPARIAN AREA ADJACENT TO

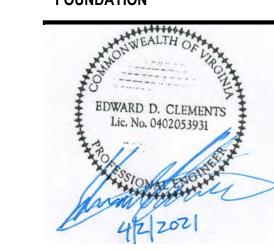
1A PRINCE STREET

ALEXANDRIA, VA

22314



AGENCY:
TALL SHIPS PROVIDENCE
FOUNDATION

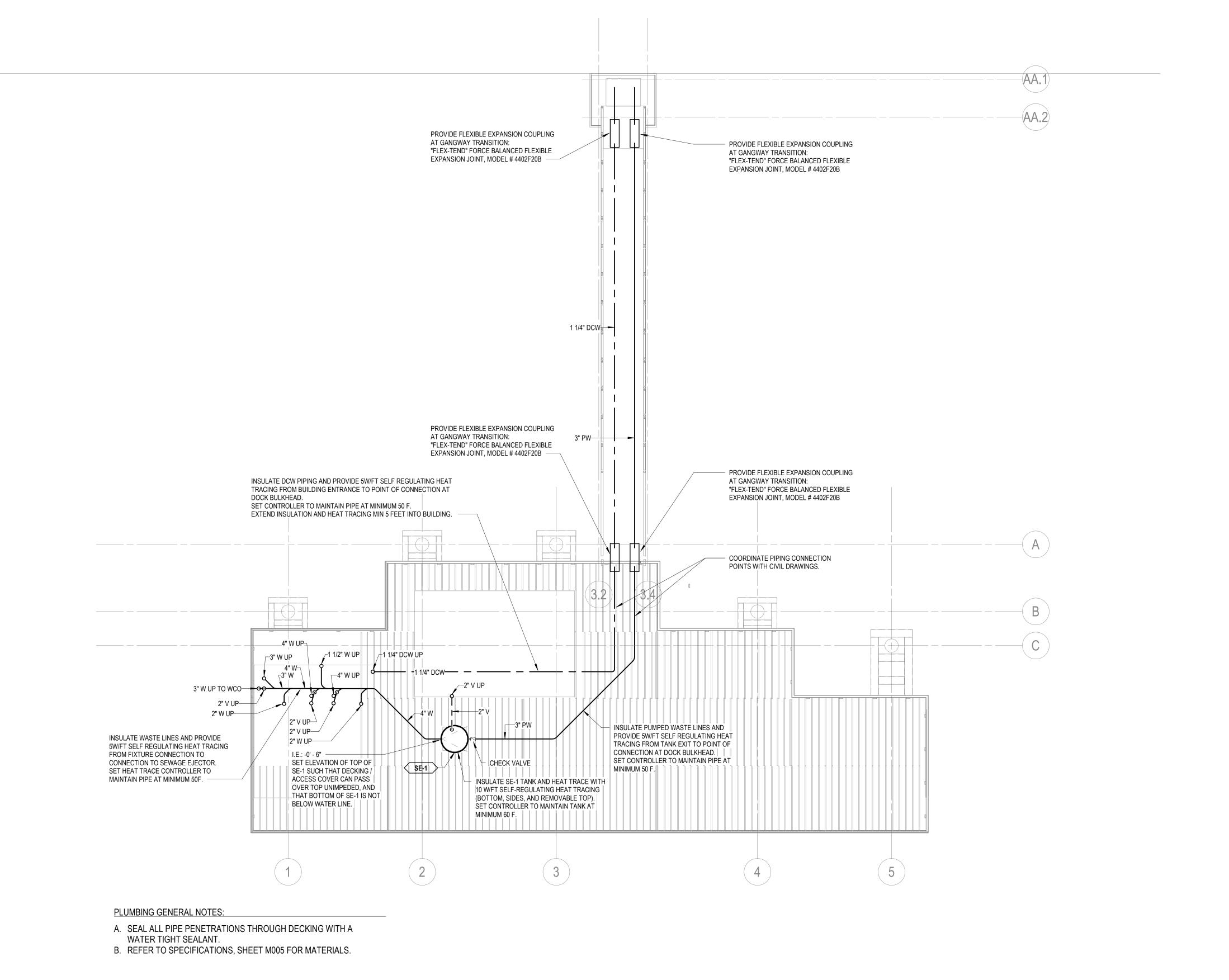


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PLUMBING GENERAL NOTES AND SYMBOLS

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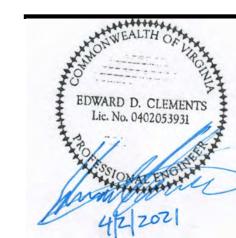
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AGENCY:
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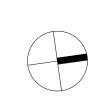


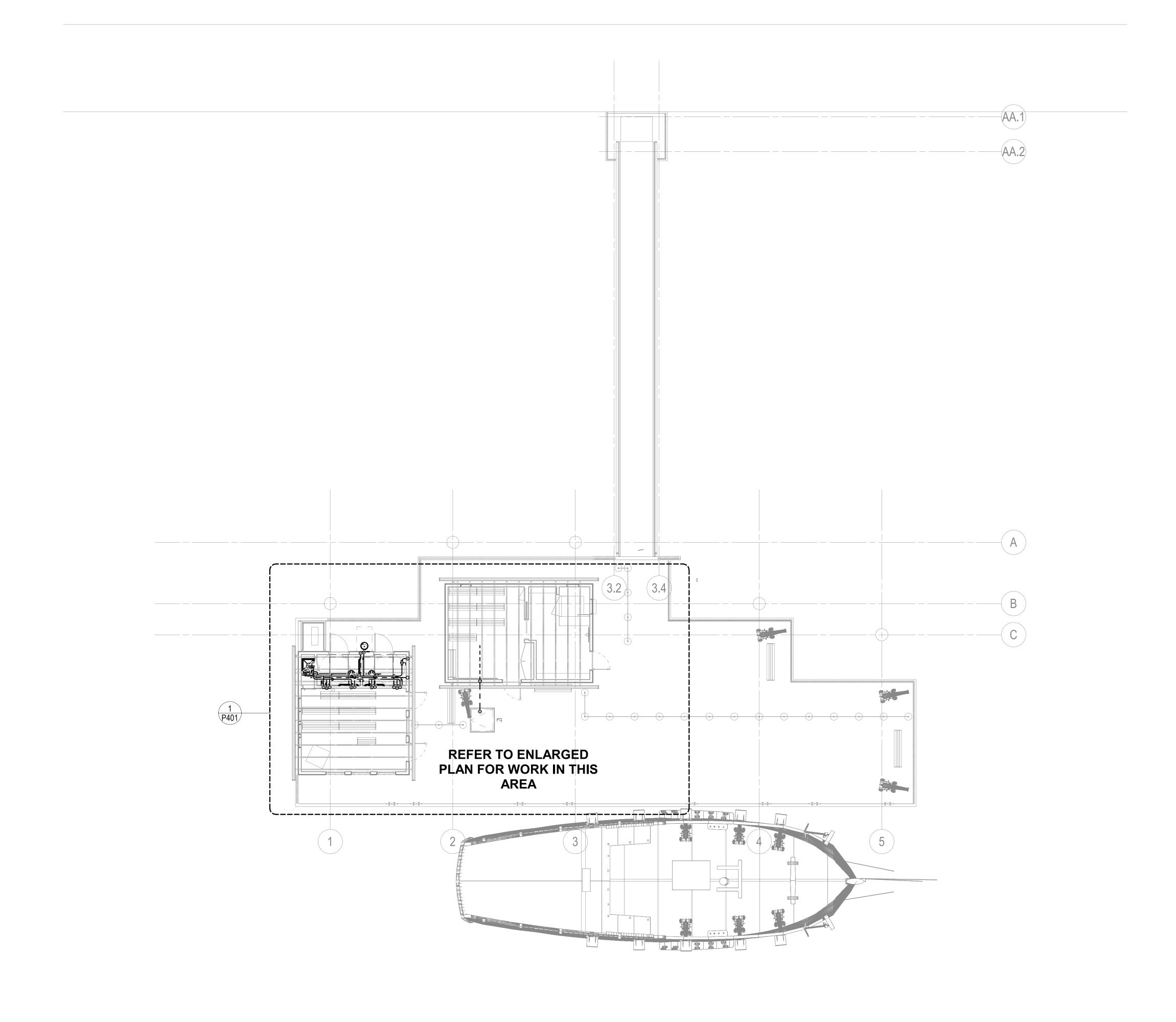


DECK UNDERFLOOR PLAN -PLUMBING

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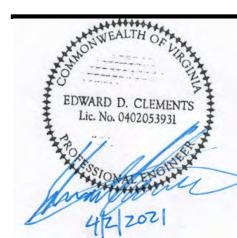
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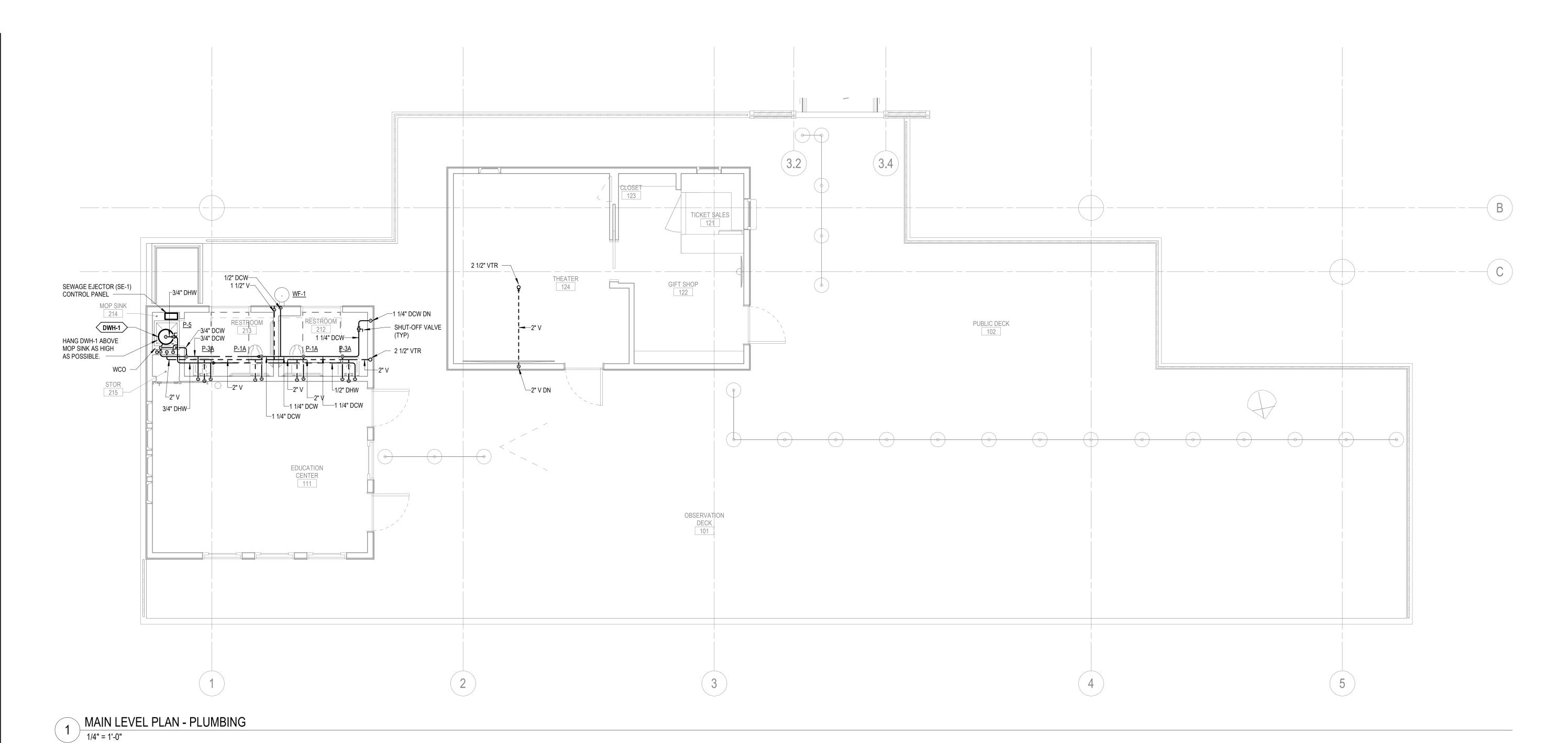
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MAIN LEVEL PLAN -PLUMBING

DATE: APRIL 2, 2021

PERMIT SET





A. SEAL ALL PIPE PENETRATIONS THROUGH DECKING WITH A

WATER TIGHT SEALANT.

PLUMBING GENERAL NOTES:

B. REFER TO SPECIFICATIONS, SHEET M005 FOR MATERIALS.

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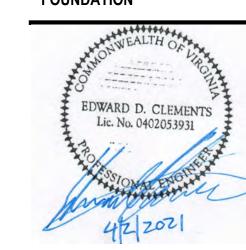
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PROJECT: **JOHN WARNER** MARITIME HERITAGE **CENTER**

RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA



AGENCY:
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FOUNDATION

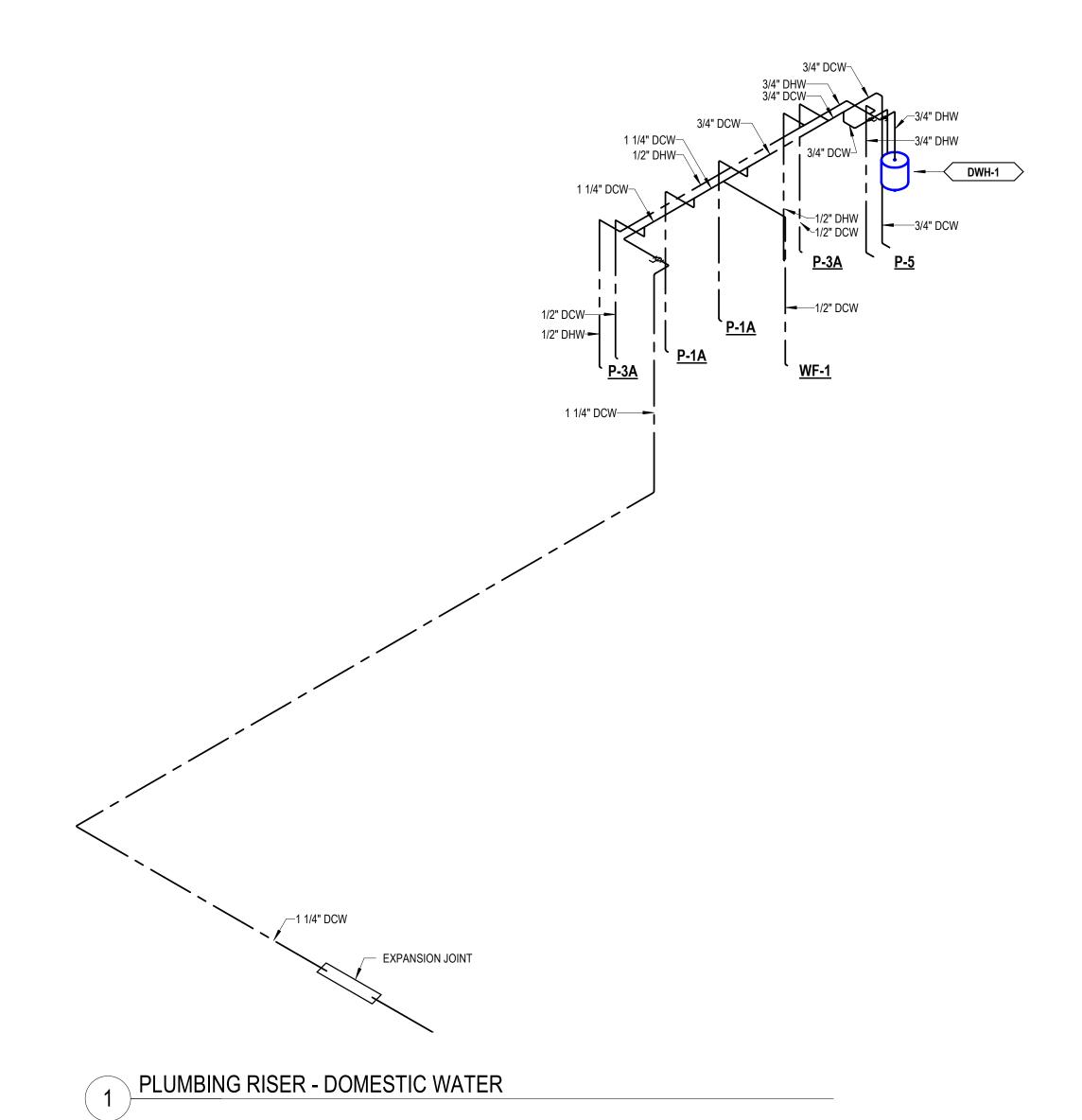


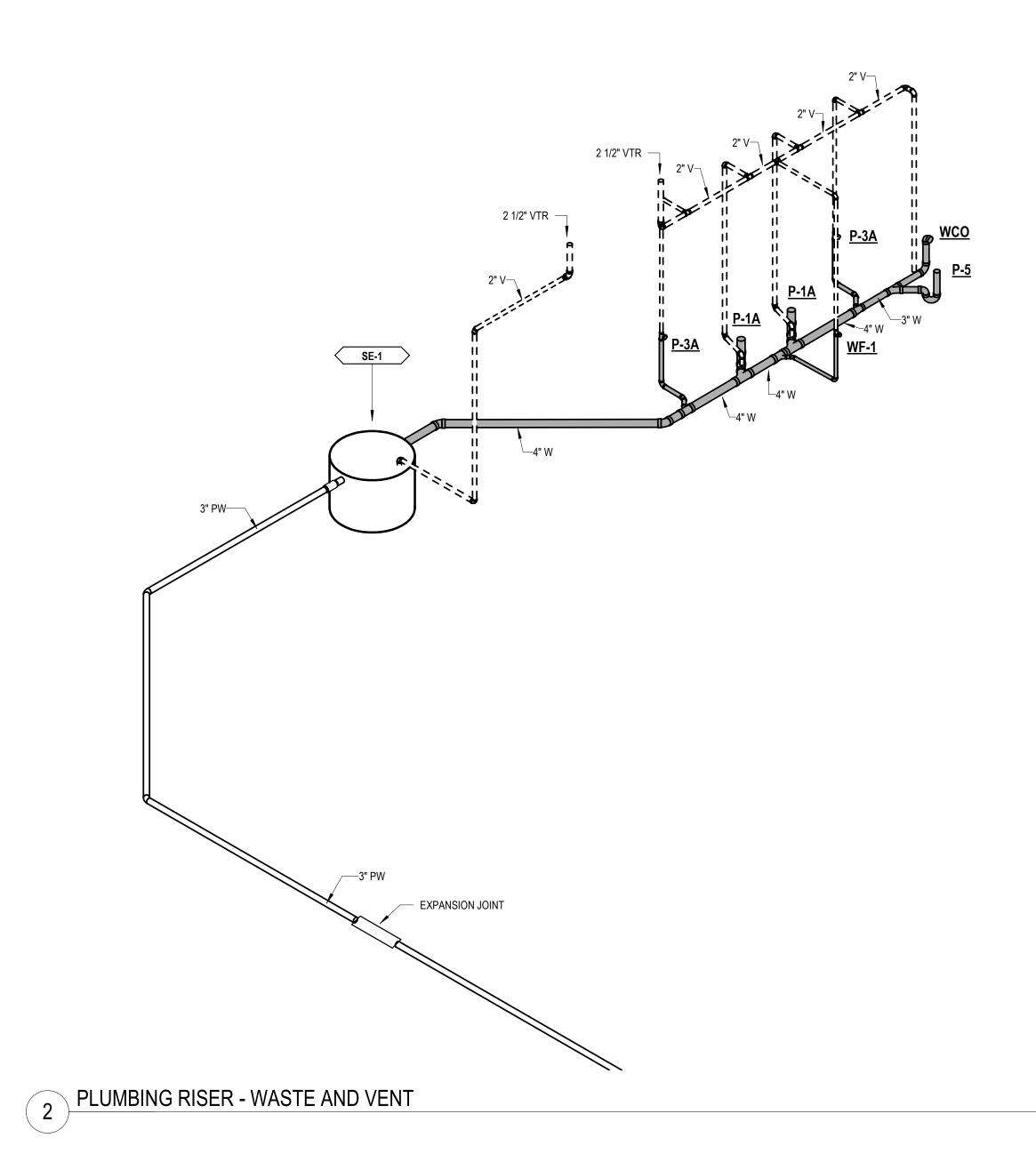
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ENLARGED MAIN LEVEL PLAN -PLUMBING

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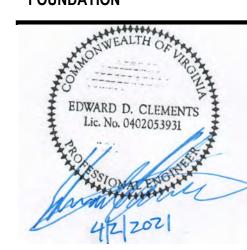
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PLUMBING RISERS

DATE: APRIL 2, 2

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 PLUMBING AND DRAINAGE INSTITUTE (P.D.I.) ARRESTOR SYMBOL
 A
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 FIXTURE UNIT RATING
 1-11
 12-32
 33-60
 61-113
 114-154
 155-330

SHUTOFF VALVES (TYP)

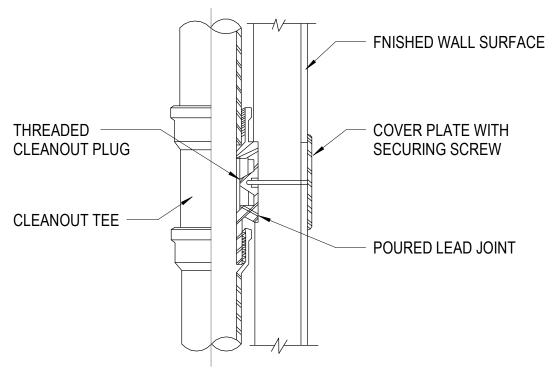
WATER HAMMER
ARRESTER

LAVATORY

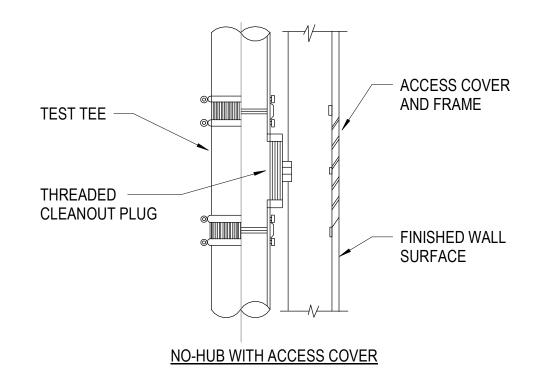
NOTE:

1. INSTALL WATER HAMMER ARRESTERS IN THE FOLLOWING LOCATIONS: PLUMBING FIXTURE GROUPS CONTAINING FLUSH VALVES, EQUIPMENT WITH AUTOMATIC FILL VALVES (DISHWASHERS, CLOTHES WASHERS, HUMIDIFIERS, ETC.) SEE SPECIFICATION 221119 PLUMBING SPECIALTIES.

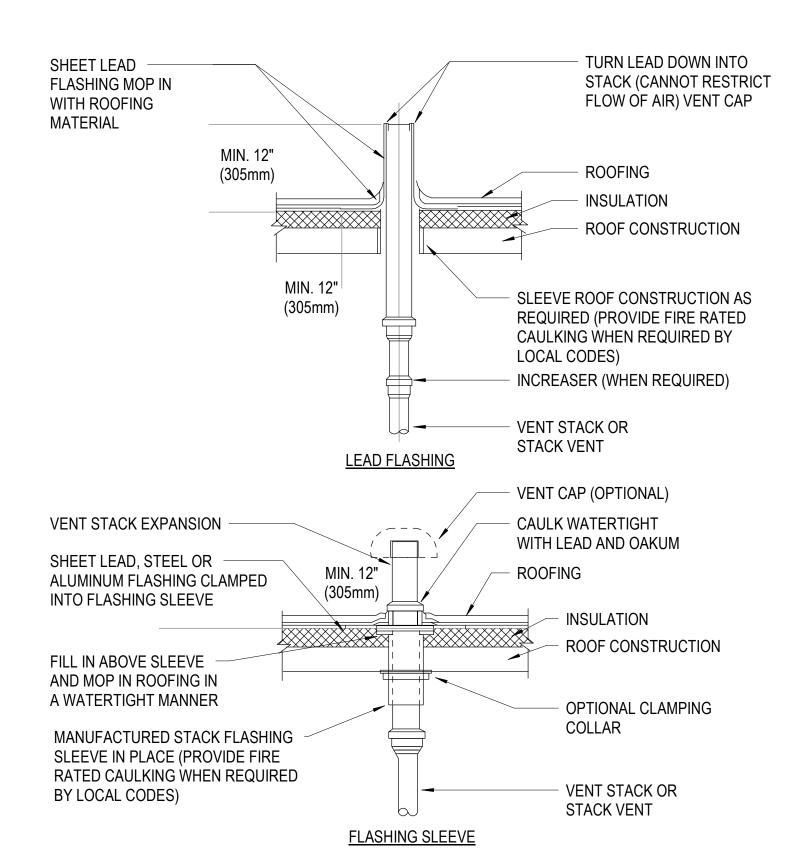
4 SHOCK ABSORBERS LOCATIONS
NOT TO SCALE



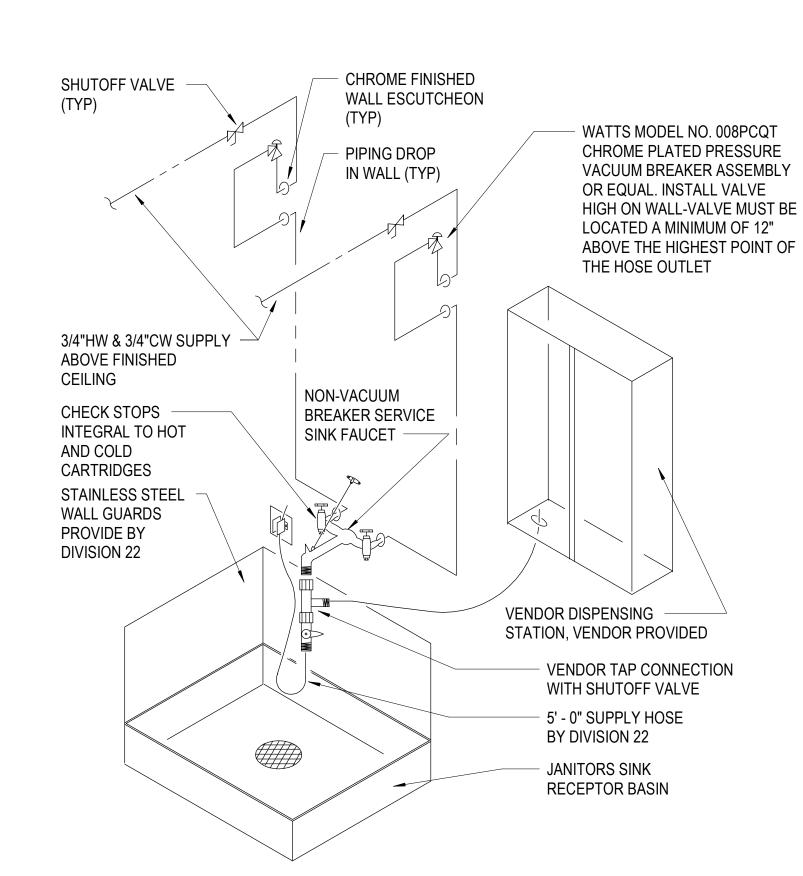
HUB AND SPIGOT WITH COVER PLATE



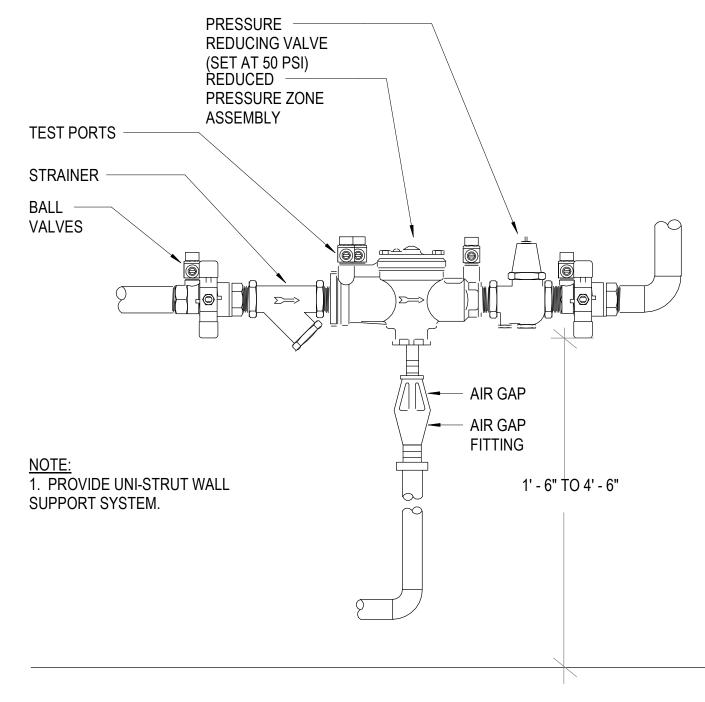
WALL CLEANOUTS
NOT TO SCALE



3 VENT THROUGH ROOF (VTR)



SERVICE SINK FAUCET W/ CHEMICAL DISPENSER CONNECTION NOT TO SCALE



6 SINGLE RPZ ASSEMBLY

HGA

44 Canal Center Plaza, Suite 100 Alexandria, Virginia 22314 Telephone 703.836.7766

> STRUCTURE ADTEK ENGINEERS. INC 9990 FAIRFAX BLVD #300 FAIRFAX, VA 22030 (703) 691-4040

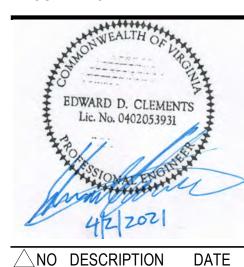
CIVIL/MARINE MOFFATT & NICHOL 4700 FALLS OF NEUSE ROAD SUITE 300 RALEIGH, NC 27609 (919) 78-4626

PROJECT:
JOHN WARNER
MARITIME HERITAGE
CENTER

RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA 22314



AGENCY:
TALL SHIPS PROVIDENCE
FOUNDATION



> PLUMBING DETAILS

DATE: APRIL 2, 2021

PERMIT SET

				Е	LECTRI	C WATER H	HEATER	SCHED	ULE (EWH)		
						ELECTR	ICAL REQUIRE	EMENTS		BASIS OF	DESIGN	
UNIT				TANK SIZE		RECOVERY GPH			EMERGENCY	MANUFACTU		
NUMBER	LOCATION	EWT (°F)	LFT (°F)	(GAL.)	KW	60°F RISE	VOLTAGE	PHASE	POWER	RER	MODEL	COMMENTS
DWH-1	214 - MOP SINK	60	120	6	2	14	208	1	NO	A.O. SMITH	DEL-6	

				WAT	ER FOU	NTAIN S	CHEDULE	(WF)			
						SPOUT	SUPPLY		BASIS OF	DESIGN	
		BOWL MATERIAL		BOTTLE	MOUNTING	MOUNTING	CONNECTION	WASTE			
UNIT NUMBER	CABINET	TYPE	CONTROL	FILLER	TYPE	HEIGHT (IN.)	(IN.)	OUTLET (IN.)	MANUFACTURER	MODEL	COMMENTS
WF-1	STAINLESS STEEL	STAINLESS STEEL	PUSH BUTTON	NO	RECESSED	SEE ARCH	1/2"	1-1/2"	ELKAY	EDFPB114FPK	NON-FREEZE MODEL REQUIRED

NOTES: PROVIDE ELKAY EWF172 - WATER FILTER KIT, MPW101 IN-WALL CARRIER ACCESSORY, AP99 ACCESS PANEL

		PLUMBING FIXTURE SCHEDULE										
UNIT							DOI	DOMESTIC SUPPLY				
NUMBER	TYPE	DESCRIPTION	NOTE	RIM MOUNTING HEIGHT	WASTE (IN)	VENT (IN)	FLOW	CW	HW			
P-1A	WATER CLOSET - FLOOR MOUNTED, FLOOR OUTLET	FIXTURE: AMERICAN STANDARD "MADERA" 3461.001 FLOOR MOUNT, BOTTOM OUTLET, WHITE VITREUOUS CHINA WATER CLOSET WITH TOP SPUD AND ELONGATED BOWL, 1.28 GPF. VALVE: SLOAN REGAL 111-1.28 MANUAL EXPOSED WATER CLOSET FLUSHOMETER, 11-1/2" HIGH VALVE, 1.28 GPF SEAT: CHURCH MODEL NO. 295SSC OPEN FRONT SEAT LESS COVER, ELONGATED, SOLID PLASTIC, EXTERNAL STAINLESS STEEL SELF-SUSTAINING HINGES. ACCESSORIES: TWO BOLT CAPS.		17"	4"	2"	1.28 GPF	1 1/4"				
P-3A	SINK - WALL HUNG	FIXTURE: AMERICAN STANDARD INC. "LUCERNE" 0355.012 WALL-MOUNTED LAVATORY, CONCEALED ARMS SUPPORT, BACK & SIDE SPLASH SHIELDS, VITREOUS CHINA, FRONT OVERFLOW THREE HOLES. FAUCET: CHICAGO FAUCETS ECAST 2200-4E2805ABCP DECK MOUNTED FAUCET, SINGLE LEVER HANDLE, 0.5 GPM VANDAL RESISTENT ECONO-FLO SPRAY OUTLET, 4" CENTERS, WITH COVER PLATE, CHROME PLATED. STRAINER: OPEN GRID STRAINER WITH CHROME PLATED TAILPIECE. ACCESSORIES: CHICAGO FAUCETS THERMOSTATIC MIXING VALVE # 131-ABNF, ASSE 1070, INTEGRAL INLET CHECK VALVES. ACCESSORIES: TRUEBRO "LAV GUARD" MOLDED COVERING FOR WATER AND WASTE PIPING WHERE WATER PIPING & TRAPS ARE EXPOSED. ACCESSORIES: ZURN Z1231 CONCEALED ARM CARRIER, CAST IRON ADJUSTABLE HEADERS, ALIGNMENT TRUSS & RECTANGULAR STEEL UPRIGHTS WITH WELDED FEET.		34"	2"	1 1/2"	0.5 GPM	1/2"	1/2"			
P-5	SERVICE SINK, FLOOR MOUNTED	FIXTURE: FIAT PRODUCTS MODEL # MSB2424, FLOOR SET MOP SERVICE BASIN, MOLDED STONE, 24" X 24" X 10" HIGH, 3" DRAIN OPENING. FAUCET: CHICAGO FAUCETS # 897-CCCP, POLISHED CHROME PLATED CAST BRASS, 8" SERVICE SINK FAUCET, VACUUM BREAKER, INTEGRAL WATER STOPS AND CHECK VALVES, 3/4" HOSE THREADED OUTLET, PAIL HOOK AND ADJUSTABLE ARMS. STRAINER: REMOVABLE STAINLESS STEEL COMBINATION DOME STRAINER AND LINT BASKET. ACCESSORIES: 24" X 24" WALL GAURDS, MOP BRACKET, 30" RUBBER HOSE, MOUNTING BRACKET AND STAINLESS STEEL BUMPER GUARDS FOR BASIN. ASSE 1055 BACKFLOW PREVENTION DEVICE.		FLOOR SET	3"	2"	1.5 GPM	3/4"	3/4"			

HGA

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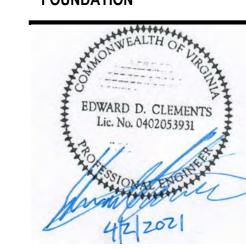
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PROJECT:
JOHN WARNER
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RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA 22314



AGENCY:
Tall ships providence
Foundation



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	ISSUANCE HISTORY	- THIS	SHEET
HGA	NO:	213	35-015-0

PLUMBING SCHEDULES

DATE: ADDII 2.2

PERMIT S

P800

1 UPPER CASE LETTERS WITH NUMBER INDICATES LUMINAIRE TYPE. (REFER TO THE E500 LUMINAIRE SCHEDULE) 2 NUMBER INDICATES CIRCUIT CONNECTION. 3. LOWER CASE LETTER INDICATES CONTROL DEVICE.

◯ 23

SPECIAL RECEPTACLES. THE NEMA STANDARD TYPE IS SHOWN WITH AN UPPER CASE LETTER. TYPE AS NOTED. EXAMPLE: NEMA L6-30R, 250V, SINGLE PHASE, 30A, TWIST-LOCK RECEPTACLE

IG $\langle \bigcirc \rangle$ (J) **(EF-1)**

THE CIRCUIT DESIGNATION IS SHOWN BY NUMBER ADJACENT TO EQUIPMENT. ABBREVIATION NEXT TO CIRCUIT NUMBER INDICATES A DEDICATED CIRCUIT FOR THAT TYPE OF EQUIPMENT. EXAMPLE: WALL MOUNTED ISOLATED GROUND DUPLEX RECEPTACLE ON DEDICATED CIRCUIT NUMBER 2 FOR A

PRINTER. SYMBOL WITH EQUIPMENT IDENTIFICATION. SEE MECHANICAL EQUIPMENT SCHEDULE FOR COMPLETE ELECTRICAL INFORMATION. EXAMPLE: EXHAUST FAN #1

PLAN KEY NOTE. SEE KEY NOTE SCHEDULE ON THAT DRAWING. ARROW POINTS TO THE ITEM TO WHICH THE NOTE APPLIES.

INDIVIDUAL HOME RUN TO BRANCH CIRCUIT PANELBOARD. PANELBOARD AND CIRCUIT DESIGNATION ARE PLACED imesADJACENT TO HOMERUN ARROW. REFER TO PANEL SCHEDULES FOR AMPS AND NUMBER OF POLES. EXAMPLE: HOMERUN TO PANEL ELP1. UNDESIGNATED TICK MARKS INDICATE #12 CONDUCTORS; NO TICK MARKS INDICATE 2 #12 CONDUCTORS. CONDUCTOR SIZES INDICATED ADJACENT TO SLASH MARKS SHALL APPLY TO ENTIRE CIRCUITS. PROVIDE MINIMUM #12 AWG CONDUCTORS FOR HOMERUNS, #10 AWG CONDUCTORS FOR HOMERUNS THAT EXCEED 100 FEET (30480mm) FOR 120 VOLT CIRCUITS AND 250FEET (76200mm) FOR 277 VOLT CIRCUITS. HOMERUNS SHALL BE CONSIDERED TO ORIGINATE FROM THE POWER SOURCE TO THE FIRST PIECE OF EQUIPMENT OR DEVICE.

WIRELESS DEVICE: ANY DEVICES IN THE SYMBOLS LEGEND THAT INCLUDES THE WIRELESS SYMBOL SHALL BE

COMMUNICATIONS ROUGH-IN REQUIREMENTS						
		BACK BOX SIZE	RACEWAY SIZE			
W	WALL PHONE VOICE OUTLET	4" x 4" SQUARE W/ SINGLE GANG TRIM RING	3/4"			
\Box	DATA OUTLET	4" x 4" SQUARE W/ SINGLE GANG TRIM RING	3/4"			
WA	WIRELESS LAN OUTLET	4" x 4" SQUARE W/ SINGLE GANG TRIM RING	3/4"			
I	VOICE/DATA OUTLET	4- 11/16" x 4- 11/16" SQUARE W/ SINGLE GANG TRIM RING	3/4"			
4	QUAD VOICE/DATA OUTLET	4- 11/16" x 4- 11/16" SQUARE W/ SINGLE GANG TRIM RING	1"			

COMMUNICATIONS ROUGH-IN REQUIREMENT NOTES:

- A. PROVIDE CONDUIT FROM WALL MOUNTED COMMUNICATIONS DEVICE BACK BOXES TO NEAREST ACCESSIBLE CABLE TRAY. CONDUIT SHALL RUN BETWEEN ACCESSIBLE CEILING SPACES AND ACOUSTICAL CEILINGS.
- B. ROUGH-IN BACK BOX FOR WIRELESS LAN ACCESS POINTS SHOWN AT PRACTICE ROOMS, FACULTY OFFICES, ETC. SHALL BE MOUNTED BETWEEN ACCESSIBLE CEILING SPACES AND ACOUSTICAL CEILINGS. LOCATE ABOVE SHELF IN REHEARSAL ROOMS, REFER TO INTERIOR ELEVATIONS.
- C. FOLLOW PROPER INSTALLATION OF BACK BOXES AND RACEWAYS PENETRATING THROUGH ACOUSTICAL WALLS AND VAPOR BARRIERS.

	CONSIDERED A WIRELESS DEVI	ICE.				D. PROVID	E PULL STRINGS IN ALL ROUGH-INS.			
	P AMPERE / AUDIO/VISUAL ALTERNATING CURRENT	EMT EWC EXST	ELECTRICAL METALLIC TUBING ELECTRIC WATER COOLER EXISTING	ABBRE KVA KW LAN	VIATIONS KILOVOLT-AMPERE KILOWATT LOCAL AREA NETWORK	NFSS NTS OC	NON-FUSED SAFETY SWITCH NOT TO SCALE ON CENTER	TELECOI TGB	M TELECOMMUNICATIONS TELECOMMUNICATIONS GROUNDING BUSBAR	
ACS AFF AIC AL ATS AWG BAS BIO BMS C CATV CLG COFF CU dB DC DED DIA DSP DW ELEC EMI	AUTOMATIC CONTROL SYSTEM ABOVE FINISHED FLOOR AMPERE INTERRUPTING RATING ALUMINUM AUTOMATIC TRANSFER SWITCH AUXILIARY AMERICAN WIRE GAUGE BUILDING AUTOMATION SYSTEM BIOMETRIC BUILDING MANAGEMENT SYSTEM CONDUIT CABLE TELEVISION CEILING COFFEE MAKER COPPER DECIBEL DIRECT CURRENT DEDICATED CIRCUIT DIAMETER DIGITAL SIGNAL PROCESSOR DISH WASHER ELECTRICAL ELECTROMAGNETIC INTERFERENCE	FA FACP FACP FLA F FSS GAD GFCI GND HH HMT HRZ I/O IG IP IP IR KK KV	FIRE ALARM FIRE ALARM ANNUCIATOR PANEL FIRE ALARM CONTROL PANEL FULL-LOAD AMPERE FURNITURE POWER FUSED SAFETY SWITCH GENERATOR ANNUCIATOR PANEL GARBAGE DISPOSAL GROUND FAULT CIRCUIT INTERRUPTER GROUND HANDHOLE HARMONIC MITIGATING TRANSFORMER HORSE POWER HORIZONTAL HERTZ IN-BOARD/OUT-BOARD ISOLATED GROUND INTERNET PROTOCOL INTERGRATED POWER CENTER INFRARED KILOHERTZ KIRK KEY KILOVOLT	LCP LED LSI LV MCA MCB MH MLO MM MMCS MOCP MSS MV MW N NAC NEC NEMA NFPA	LIGHTING CONTROL PANEL LONG TIME SHORT TIME INSTANTANEOUS LOW-VOLTAGE MINIMUM CIRCUIT AMPACITY MAIN CIRCUIT BREAKER MANHOLE MAIN LUG ONLY MULTI-MODE MANUAL MOTOR CONTROL SWITCH MAXIMUM OVERCURRENT PROTECTION MOTOR STARTER SWITCH MEDIUM VOLTAGE MICROWAVE NEUTRAL NOTIFICATION APPLIANCE CIRCUIT NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NATIONAL FIRE PROTECTION AGENCY	P PB PF PH or Ø PNL POS PR PTZ PVC RCPT REF RX SEC SM SPD ST STP TBB	OVER CURRENT PROTECTIVE DEVICE POLE PULL BOX POWER FACTOR PHASE PANEL POINT OF SALE PAIR PRIMARY PRINTER PAN TILT ZOOM POLYVINYL CHLORIDE RECEPTACLE REFRIGERATOR RADIO FREQUENCY RECEIVE/RECEIVER SECONDARY SINGLEMODE SURGE PROTECTION DEVICE SHUNT TRIP SHIELDED TWISTED PAIR TELECOMMUNICATIONS BONDING BACKBONE	TIA TYP UL UNO UPS UTP V VA VEND VGA VSD/VFC VFC W WAP WP XFMR	CONTROLLER WATT WIRELESS ACCESS POINT WEATHER-PROOF	
				GENER	AL NOTES					

GENERAL NOTES

- A. ELECTRICAL ORDINANCES: ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND FEDERAL LAWS OR ORDINANCES GOVERNING THE PROJECT. IF, IN ANY INSTANCE, THE PLANS AND SPECIFICATIONS ARE IN DIRECT CONFLICT WITH SUCH CODES, LAWS OR ORDINANCES, THE CODE, LAWS AND ORDINANCES SHALL HAVE JURISDICTION AND THE WORK IN QUESTION SHALL BE INSTALLED ACCORDING TO THE CODES, LAWS AND ORDINANCES. ALL WORK SHALL BE INSTALLED UNDER THE SUPERVISION OF A LICENSED MASTER ELECTRICIAN.
- B. BRING DISCREPANCIES SHOWN ON DIFFERENT DRAWINGS AND BETWEEN DRAWINGS AND SPECIFICATIONS OR BETWEEN DOCUMENTS AND FIELD CONDITIONS TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
- C. COORDINATE ELECTRICAL INSTALLATION WITH ALL OTHER CONTRACTORS AND OWNER FOR THE LOCATION AND SIZES OF ALL EQUIPMENT PRIOR TO ROUGH-IN. SHOULD ELECTRICAL WORK BE INSTALLED WHICH INTERFERES WITH THE WORK OF OTHER CONTRACTORS OR OWNER, SUCH WORK SHALL BE CHANGED WITH NO ADDITIONAL COST TO OWNER.
- D. MOUNT EQUIPMENT AT NOMINAL MOUNTING HEIGHT INDICATED IN ELECTRICAL SYMBOL SCHEDULE UNLESS NOTED OTHERWISE ON THE FLOOR PLANS OR DETAILED IN ARCHITECTURAL ELEVATIONS. DIMENSION SHOWN IS TO CENTER LINE OF BOX. SEE ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS FOR EXACT LOCATION OF WALL MOUNTED DEVICES AND LIGHT FIXTURES.

- E. CONDUCTORS SHALL BE COPPER, UNLESS SPECIFIED OTHERWISE, BUILDING POWER WIRING SHALL HAVE THHN/THWN INSULATION. CONDUCTOR AMPACITY SHALL BE BASED ON TABLE 310-16 OF THE NEC. USE 60-DEGREE C RATING FOR CIRCUITS TERMINATING ON DEVICES RATED BELOW 100A. USE 75-DEGREE RATING FOR CIRCUITS TERMINATING ON DEVICES AND IN ENCLOSURES RATED 100A AND OVER.
- F. INSTALL INSULATED GREEN EQUIPMENT GROUNDING CONDUCTOR WITH ALL BRANCH CIRCUIT AND FEEDER CONDUCTORS, SIZED IN ACCORDANCE WITH NEC ARTICLE 250.
- G. DRAWINGS INDICATE DESIGN LOADS, VOLTAGES, CORRESPONDING CONTROL EQUIPMENT, FEEDERS AND OVER CURRENT DEVICES. IF EQUIPMENT ACTUALLY FURNISHED HAVE LOADS OTHER THAN THOSE INDICATED ON THE DRAWINGS OR SPECIFIED HEREIN, CONTROL EQUIPMENT, FEEDERS AND OVER CURRENT DEVICES SHALL BE ADJUSTED IN SIZE ACCORDINGLY AT NO ADDITIONAL COST TO THE OWNER. SUCH ADJUSTMENT SHALL BE SUBJECT TO THE REVIEW OF THE ARCHITECT PRIOR TO ACCEPTANCE OR PURCHASE.
- H. ALL DEVICES SHALL BE INSTALLED TO COMPLY WITH ADA STANDARDS FOR ACCESSIBLE DESIGN.
- I. IN GENERAL, BRANCH CIRCUIT CONDUIT AND WIRE IS NOT SHOWN. PROVIDE CONDUIT AND WIRE TO CONNECT DEVICES TO CIRCUITS SHOWN. WIRE FILL AND CONDUCTOR SIZE SHALL BE AS SPECIFIED. PROVIDE A MAXIMUM OF THREE PHASE CONDUCTORS IN A SINGLE HOME RUN. PROVIDE A DEDICATED NEUTRAL FOR EACH PHASE CONDUCTOR UNLESS OTHERWISE NOTED. INSTALL PULL BOXES AND JUNCTION BOXES AS REQUIRED TO AID IN THE INSTALLATION OF CABLES AND CONDUCTORS. LABEL LOCATION OF POWER CIRCUITS ON COVER OF ALL RECEPTACLES AND ON COVER OF JUNCTION BOXES AND BOXES ASSOCIATED WITH EQUIPMENT. INCLUDE PANEL AND CIRCUIT IDENTIFICATION. LABEL LOCATION OF POWER CIRCUITS ON COVER OF ALL LIGHT SWITCHES. INCLUDE PANEL AND CIRCUIT IDENTIFICATION.
- SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR FINAL LOCATION OF CEILING MOUNTED EQUIPMENT. MOUNT RECESSED CEILING FIXTURES WITH FLEXIBLE METAL CONDUIT OF LENGTH REQUIRED TO MEET MOUNTING LOCATION AND NEC REQUIREMENTS. MAXIMUM FLEXIBLE CONDUIT LENGTH SHALL BE (6') SIX FEET (1828mm).
- K. INSTALL ALL ITEMS NECESSARY TO COMPLETE THE INSTALLATION. TOUCH-UP OR REFINISH THE FACTORY FINISH OF EQUIPMENT MARRED DURING SHIPMENT, DEMOLITION OR INSTALLATION.
- . SUBMIT SHOP DRAWINGS OF ALL NEW EQUIPMENT, DEVICES, FIXTURES AND CABLES/CONDUCTORS TO BE INSTALLED IN SYSTEM FOR WRITTEN APPROVAL FROM ENGINEER PRIOR TO INSTALLATION. REFER TO SPECIFICATIONS FOR ADDITIONAL SUBMITTAL REQUIREMENTS.

M. ALL WORK SHALL BE GUARANTEED FREE FROM DEFECTS FOR

A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.

- N. MAINTAIN FIRE RATING WHERE RACEWAYS, CABLING, DEVICES, ETC. PENETRATE A FIRE RATED STRUCTURE. REFER TO THE ARCHITECTURAL DRAWINGS FOR LOCATION OF FIRE RATED WALLS AND CEILINGS. FIRE PROOF ALL PENETRATIONS AS REQUIRED.
- O. SEAL INTERIOR OF ALL CONDUITS WHERE THEY PENETRATE WALLS, FLOORS, OR CEILINGS ENTERING OR EXITING STAIRWELLS.

POWER NOTES:

ALL CONDUCTOR SPLICES MADE BELOW THE DECK SHALL BE MADE IN JUNCTION BOXES UTILIZING SEALED WIRE CONNECTOR SYSTEMS LISTED AND IDENTIFIED FOR SUBMERSION.

- Q. PROVIDE AUXILIARY CONTACTS WITH ALL OCCUPANCY AND VACANCY SENSORS FOR BAS/BMS STATUS OUTPUT
- . COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF LUMINAIRES IN MECHANICAL ROOMS WITH DUCTS, PIPES, AND EQUIPMENT. MOUNT LUMINAIRES BELOW DUCTS AND PIPES AND DO NOT MOUNT LUMINAIRES OVER EQUIPMENT. SUPPORT LUMINAIRES INDEPENDENTLY OF DUCTS, PIPES, AND EQUIPMENT.
- LIGHT SWITCHES SHALL BE MOUNTED ON LATCH SIDE OF DOOR, WITHIN 12 INCHES (305mm) OF DOOR/SIDELIGHT FRAMING, UNLESS NOTED OTHERWISE. LIGHT SWITCHES INSTALLED ADJACENT TO DOOR SWINGS SHALL BE MOUNTED CLEAR OF DOOR SWING AND WITHIN 12 INCHES (305mm) OF DOOR IN OPEN POSITION. COORDINATE LOCATION WITH OTHER WALL DEVICES

SYMBOL	DESCRIPTION H	EIGHT	SYMBOL	DESCRIPTION	HEIGH
0	<u>LIGHTING</u>			POWER DISTRIBUTION	
	RECESSED MOUNTED LIGHT FIXTURES	**		MOTOR	**
	SURFACE MOUNTED LIGHT FIXTURES	**	40	SAFETY DISCONNECT SWITCH	**
0 0	SUSPENDED MOUNTED LIGHT FIXTURES	**	4 ⊠	FUSED STARTER COMBINATION STARTER	**
•	RECESSED LIGHT FIXTURES ON CRITICAL	**	│		**
	POWER CIRCUIT		Т	DRY TYPE TRANSFORMER-	**
+	SURFACE MOUNTED LIGHT FIXTURES ON	**		FLOOR MOUNT DRY TYPE TRANSFORMER -	**
	CRITICAL POWER CIRCUIT		T.	CEILING/WALL MOUNT	**
	RECESSED LIGHT FIXTURES ON LIFE SAFE ⁻ (S) POWER CIRCUIT	ΓY **		POWER OR DISTRIBUTION PANEL	**
-\$-	SURFACE MOUNTED LIGHT FIXTURES ON	**		SURFACE MTD PANELBOARD	**
	LIFE SAFETY (S) POWER CIRCUIT			FLUSH MTD PANELBOARD GROUND BUS BAR	
	RECESSED INDIRECT LIGHT FIXTURE	**			
	(ORIENTATION OF BASKET INDICATED BY LINE IN CENTER OF FIXTURE)		NIHITIP .	COMMUNICATION	18
	EXIT SIGN SHADED PORTION OF EXIT SIGN	**	W	VOICE OUTLET	
T	INDICATES FACE(S) TO BE ILLUMINATED. LIGHT TRACK	**	igwedge	WALL PHONE VOICE OUTLET DATA OUTLET	48 18
			WAP	WIRELESS LAN OUTLET	CL(
•—	POLE MOUNTED LIGHT FIXTURE	**		VOICE/DATA OUTLET	18
	WALL MOUNTED LIGHT FIXTURE	**	\ \triangle T\	TV OUTLET	*
ô	ARROW OF LIGHT FIXTURE INDICATES	**	\bigvee	INTERCOM	54
	AIMING DIRECTION	**	₩	MICROPHONE JACK	*
	POST TOP LIGHT FIXTURE	**	P	PROJECTOR OUTLET	CLO
4_	EMERGENCY LIGHTING UNIT WITH BATTERY PACK		(AV)	AUDIO VISUAL BACK BOX	18
E _{PT}	UL-924 EMERGENCY POWER TRANSFER	**	© ©	CLOCK	84
	DEVICE LVS CONTROLS OR EQUAL.		\$ \$	SPEAKER	84 CL0
	<u>SWITCHES</u>		(SPEAKER VOLUME CONTROL	54
\$	SINGLE POLE SWITCH	46" 46"	P P	PUSHBUTTON	46
\$ 2 \$ 3	2 POLE SWITCH 3 WAY SWITCH	46"			
\$ 4 \$ L	4 WAY SWITCH LOW VOLTAGE SWITCH	46" 46"		CONDUIT AND WIRING	
\$ D	DIMMER SWITCH	46"	/ \	CONDUIT CONCEALED IN WALL OR OVERHEAD	,
\$ K \$ M	KEY OPERATED SWITCH MOMENTARY CONTACT SWITCH	46" 46"		CONDUIT CONCEALED IN OR BELOW	•
\$ WP \$ P	WEATHERPROOF SWITCH SWITCH WITH PILOT LIGHT	46" 46"		FLOOR	·
\$ MMCS	SMANUAL MOTOR CONTROL SWITCH	46"		CONDUIT INSTALLED EXPOSED	,
\$ MSS	MOTOR STARTER SWITCH	46"		CONDUIT VERTICAL TRANSITION	,
(T)	DIGITAL TIME SWITCH	46" **			
© (V)	OCCUPANCY SENSOR VACANCY SENSOR	**		CONDUIT STUBBED OUT	*
P P	(MANUAL ON OCCUPANCY) DIMMING PHOTO SENSOR	**		CONDUIT SEAL)
·	POWER			EXISTING CONDUIT	*
Φ	SINGLE RECEPTACLE	18"	→	EXISTING CONDUIT INTERCEPTED	;
1	DUPLEX 125V RECEPTACLE	18"		SINGLE CHANNEL SURFACE RACEWAY	/
	EMERGENCY DUPLEX 125V RECEPTACLE	18"			
Щ	GFCI PROTECTED DUPLEX 125V RECEPTAC			DUAL CHANNEL SURFACE RACEWAY	
\Diamond	DUPLEX W/ USB COMBO	18"	PS	PLUG STRIP	
	EMERGENCY DUPLEX W/ USB COMBO	18"			
Y	DOUBLE DUPLEX 125V RECEPTACLE	18"		MISCELLANEOUS	
	GFCI PROTECTED DOUBLE DUPLEX 125V RECEPTACLE	18"	£,	DASHED SYMBOL INDICATES EXISTING	
	EMERGENCY DOUBLE DUPLEX 125V	18"	 	DEVICES TO BE REMOVED.	
	RECEPTACLE SPECIAL PURPOSE RECEPTACLE. LABEL	18"			
♥ L3-20	INDICATES RECEPTACLE TYPE.	**			
+	SWITCHED OR SPLIT WIRED RECEPTACLE	***			
Y	JUNCTION BOX				
•	FLOOR BOX CAST-IN-PLACE POKE THROUGH				
	PEDESTAL DUPLEX 125V RECEPTACLE				
•	SERVICE FITTING				
	CEILING MOUNTED DUPLEX 125V RECEPTACLE			NE-LINE/RISER DIAGRAMS AND FEEDEI	
	RAWING, SPECIFICATION OR LIGHTING E SCHEDULE FOR MOUNTING HEIGHT			LE DRAWINGS FOR ADDITIONAL SYMB ENT NAMING CONVENTIONS.	OLS AND
-	ELECTF	RICAL SHE	EET INDEX		
000	ELECTRICAL GENERAL NOTES AND SYMBOL	.S	E601	ELECTRICAL COMCHECK	
101	ELECTRICAL CRECIFICATIONS				
	ELECTRICAL SPECIFICATIONS LIGHTING PLAN - LEVEL 01				

ELECTRICAL SYMBOLS

DESCRIPTION

SYMBOL

E500

E510

E600

ELECTRICAL SCHEDULES

ELECTRICAL COMCHECK

LUMINAIRE SCHEDULE

NOMINAL

MOUNTING

HEIGHT

SYMBOL

NOMINAL

MOUNTING

HEIGHT

DESCRIPTION

44 Canal Center Plaza, Suite 100 Alexandria, Virginia 22314 Telephone 703.836.7766

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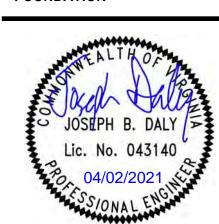
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PROJECT: JOHN WARNER MARITIME HERITAGE CENTER

> RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA



AGENCY: **TALL SHIPS PROVIDENCE** FOUNDATION



\triangle NO	DESCRIPTION	DATE
	PERMIT SET	04/02/2021
	ISSUANCE HISTORY - THIS	SHEET

HGA NO: 2135-015-00

> **ELECTRICAL NOTES AND SYMBOLS**

APRIL 2, 2021

A. General

- 1. Scope: Project shall be provided with a complete electrical installation, including lighting, power, and signal systems in the building as defined in the drawings and specifications.
- 2. Codes: Electrical work shall comply with the currently adopted National Electrical Code and all state and local codes that apply. Secure and pay for all permits, licenses and inspection fees, and coordinate all work with local inspection authorities.
- 3. Quality Assurance: All materials shall be new and free from defects, bearing certification for use as required by Underwriter's Laboratory, National Electrical Manufacturer's Association, National Fire Protection Association, American Society for Testing and Material, American National Standards Institute, and other standards that apply. Material shall be assembled in a manner consistent with the highest standards of construction practice. Work such as carpentry, painting or welding related to the electrical construction shall be performed by persons skilled in the related trade.
- 4. Testing and Adjustment: All electrical power systems shall be tested for insulation integrity and wiring continuity prior to energization. All grounding systems shall be tested for earth path resistance and continuity. After energization, phase rotation and voltage at distribution equipment and motors shall be verified, and all loads shall be balanced on the distribution system to within 5% of each other.
- 5. Cutting, Patching and Excavation: Electrical Contractor shall be responsible for all cutting, patching, and excavation required by the work. All work shall be accomplished in a manner complying with the requirements of General Specifications. Do not cut or drill structural members without Structural Engineer approval.
- 6. Rubbish Removal and Storage: Electrical Contractor shall remove all rubbish associated with the work at the end of the project and as required to prevent hazard. Electrical Contractor shall be responsible for obtaining and securing a space for material storage and staging. This space shall not interfere with construction nor shall it constitute a hazard.
- 7. Cleaning, Painting and Labeling: All fixtures and equipment shall be cleaned free from construction dust, paint and foreign matter both externally and internally. All equipment shall be primed and painted or galvanized in a factory finish, or in the field if so specified, using methods to assure maximum durability. Provide a typewritten index in all panelboards and an engraved plastic laminate label identifying all distribution equipment, distribution panelboards, and major equipment disconnects and control devices. Using permanent marker, label each system junction box on the face of the cover in exposed construction and at the interior in finished construction.
- 8. Shop drawings, Submittals, and Owner's Manual: Shop drawings shall be submitted for approval on all devices and plates, distribution equipment, control equipment, light fixtures and lamps, specified utilization equipment and systems. Alternates to specified equipment may be proposed if submitted for approval ten days prior to bid date and time. No equipment shall be considered approved until such approval is made by Addendum. The Electrical Contractor shall maintain a set of accurate as-built drawings. Two copies of Owner's manuals shall be assembled with operating and maintenance manuals for all building equipment and systems, copies of all shop drawings, specialized utilization procedures and as-built drawings. Manuals shall be submitted for approval.
- 9. The drawings are diagrammatic. Field verify equipment, light fixture and device locations. Coordinate electrical work with the other trades. Temporary Electric Services: Provide temporary electric power and lighting
- services for all trades. Provide service equipment, feeders, panelboards, receptacles, and lighting as required for the trades to perform quality work in a safe environment. Work shall include ground fault protection where required and comply with OSHA and the NEC. Remove facilities prior to occupancy.
- C. Outages: Outages shall be requested in writing, scheduled with the landlord, and coordinated with the electric utility where applicable. All work shall be done to minimize down time and inconvenience.

<u>260519 LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES</u>

A. Branch circuit conductors shall be THW or THWN/THHN solid copper through #10 and stranded copper #8 and larger. Minimum wire size is #12. 75 degree C ampacities shall be used for sizing conductors and conduit fill shall conform to NEC. Feeder conductors #6 and larger shall be THW or THWN/THHN. All conductors shall be in raceways with color coded insulation and each voltage system shall be separately identified.

260526 GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

- A. Provide grounding of all equipment comprising a permanent bonding together of all metallic, noncurrent carrying parts of the electrical system like raceways, boxes, panels, cabinets, equipment enclosures, housings, motor frames, cable trays, ducts, and lighting fixtures. Scrape light fixture finish to assure a good ground. Provide grounding conductors in all nonmetallic conduit systems, flexible conduit lengths, and surface raceways.
- B. Ground all transformers and secondary neutrals to the transformer case and to the nearest grounded building structural steel. Motor circuits shall have a ground conductor pulled with the phase conductors.

260529 HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS

A. Equipment Support: Provide support of all electrical work through the use of hanger rods, clamps, structural framing, fastening devices, and backboards. Provide vibration isolation in all supporting hardware for vibrating electrical equipment installed by this Contractor. Provide 4" high concrete pads for floor mounted equipment.

260533 RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS

- A. Conduits: Rigid steel, rigid aluminum, PVC coated rigid steel, IMC, EMT, Flexible steel and Liquidtight, and PVC conduits will be used where customary with approved fittings. Provide complete raceway systems including outlet boxes, pull boxes, and fittings. Conceal conduits in finished spaces. Group conduits on racks leaving 25% conduit space and suspend from the structure. Size conduits, boxes, and bends per the NEC where not specified on plan. Provide expansion fittings, conduit seals, drain tees, conduit hubs, fire/smoke barriers where required. Metal conduits shall have continuous grounding integrity and PVC conduits shall be complete with a properly sized circuit grounding
- B. Wireways: Wireways shall be used where shown on the plans. Wireways shall be galvanized steel, painted grey, with hinge cover and all flanges, elbows, connections and partitions necessary for a complete system. Wireways shall be deburred, complete with a grounding conductor, NEMA 1 inside and NEMA 3R outside.
- C. Surface Metal Raceways: Surface metal raceways shall be complete with all fittings, devices, plate covers, green grounding conductor, and mounting supports to make a complete system. The following Wiremold numbers identify type to be used: Type 2100, Type 2200, Type G-3000, Type G-4000 with divider, and Type G-6000. Locate devices on 18" centers and use specification grade devices in type G-3000 and larger.
- D. Pull & Junction Boxes: Indoor boxes shall be NEMA 1, constructed of a single piece code gauge steel, with folded and welded corners, complete with flat removable screw down cover. Outdoor boxes utilizing rigid metal conduit shall be cast iron with cast iron gasketed cover held down with stainless steel screws. Outdoor boxes utilizing PVC conduit shall be plastic with screw down gasketed cover. Size all boxes per NEC article 370. Boxes are not shown on plan. Provide boxes to comply with code and to provide ease of conductor installation.
- E. Floor Boxes: Provide floor boxes to match underfloor duct or raceway systems installed. Finishes of coverplates, trimmings, and carpet flanges will be aluminum. Provide poke through floor outlets installed in core drilled holes with devices as shown on the drawings. AV poke through devices shall be Wiremold 6AT Evolution series AV version with AV input devices per AV contrator requirements. All other poke throughs to be Wiremold RC4 with aluminum flange with nonmetailc aluminum cover.
- F. Outlet Boxes and Fittings: Interior outlet boxes shall be galvanized steel, non-gangable, with knockouts and covers or extension rings as required. Exterior surface outlet boxes shall be cast iron alloy with threaded hubs and screw down gasketed WP covers.
- G. Cabinets: Cabinets shall be constructed of code gauge steel without factory knockouts, surface or flush mounted as noted on plans and schedules, and shall appear as a panelboard with a hinged and latched door. Provide barriers to separate low voltage and power wiring as required.

260553 IDENTIFICATION FOR ELECTRICAL SYSTEMS

A. Identification: Provide engraved nameplates, wire and cable markers, embossed tape, and device plate cover engraving where required or specified on the drawings. Provide engraved nameplates on electrical distribution and control equipment and the loads they serve, main power and special system cabinets, motor control centers, motor starters and variable frequency drives, capacitors, and disconnects.

262416 PANELBOARDS

A. Panelboard enclosures shall be made of code gauge steel with finished cabinet front with concealed trim clamps, gasketed door, concealed door hinges, and lockable trim door with flush locks all keyed alike. 120/240 volt circuit breakers shall be bolt-on, minimum 10kAIC rating or as shown on the drawings. Provide removable typewritten circuit breaker identification inside door.

262726 WIRING DEVICES

- A. Switches shall be specification grade, 20 amp, 120 volt, quiet toggle. Provide single pole, double pole, 3-way, 4-way, or SPDT as required. Similar to Hubbell 1221 series.
- B. Receptacles shall be specification grade, duplex or single outlet, voltage, and NEMA configuration as required or shown on the drawings. Provide GFI where shown on the drawings. GFI receptacles shall have test and reset buttons and meet UL 2003 standards. Specification grade shall be similar to Hubbell 5362 series.
- C. Devices shall be white.
- D. Interior device plate covers shall be white thermoplastic nylon and galvanized steel in unfinished areas; exterior device plates shall be in-use type cover.
- E. Dimmers complete with calibrated linear vertical slide control, separate push on-push off illuminated switch, square law dimming, concealed fins, and preset feature with high adjust trim. Install dimmers where shown on the drawings. Group dimmers so that finished installation appears ganged without breaking off any cooling
- **F.** Occupancy sensors shall be WattStopper or equal dual-technology, ceiling or wall mounted solid-state units with a separate relay unit.

262816 ENCLOSED SWITCHES AND CIRCUIT BREAKERS

- A. Disconnect Switches shall be heavy duty, horsepower rated, 250 volt or 600 volt, 2-pole, solid neutral, or 3-pole fused or un-fused and as required. Switch shall be guick-make guick-break with interlock and lockable enclosure door for opening. Provide NEMA 1 enclosure indoors, NEMA 3R outdoors, and NEMA 4X in interior wet locations. Fusible switches shall use current limiting fuses with rejection type fuse clips. Provide sizes shown on the drawings.
- B. Circuit Breaker Disconnects: Provide molded case disconnect switches, 250 volt or 600 volt, 2-pole or 3-pole without thermal overload protection, with silver alloy contacts, common trip and trip indicator. Circuit breaker AIC rating shall coordinate with the circuit.

262913 ENCLOSED CONTROLLERS

A. Motor Starters: Provide a combination starter disconnect, in NEMA 1 enclosure with pilot light, HOA switch, control transformer with matching closing coil, 1-NO & 1-NC auxiliary contact and thermal overload protection sized to the motor. Provide a combination starter disconnect when starters are mounted in site of the motor connection and motor disconnect is deleted. Fusible switches shall be quick make, quick break with interlock to door. Starters shall be full voltage across the line sized as noted on the drawings.

265100 INTERIOR LIGHTING AND 265600 EXTERIOR LIGHTING

A. Light Fixtures: Provide a light fixture of the type scheduled at each light fixture location shown on plan. Light fixtures shall be complete with lamps, ballasts, all necessary accessories and mounting hardware, and shall be compatible with ceiling or wall system they are installed on. Provide samples as indicated on the drawings. Lenses shall be 100% virgin acrylic. LED fixtures shall meet LM-79 and LM-80 testing standards.

266000 PATHWAYS FOR COMMUNICATION AND SECURITY SYSTEMS

A. PROVIDE AN EMPTY RACEWAY SYSTEM COMPLETE WITH RACEWAYS, PULL AND JUNCTION BOXES, TERMINAL CABINETS, MOUNTING BOARDS, WALL OUTLET BOXES, COVER PLATES, SERVICE FITTINGS. SLEEVES BETWEEN FLOORS. AND NYLON PULL CORDS FULL LENGTH.

<u>SYSTEM</u>	CONDUIT	SO BOX	<u>DEPTH</u>	<u>RING</u>	REMARKS
LIGHTING	3/4"	4"	2-1/8"	1 GANG	
POWER	3/4"	4"	2-1/8"	1 GANG	
AUDIO VISUAL	1-1/4"	5"	2-1/8"	2 GANG	2
SECURITY	3/4"	4"	2-1/8"	1 GANG	2
DOOR ACCESS	3/4"	4"	2-1/8"	1 GANG	3
VOICE/DATA	1"	4"	2-1/8"	1 GANG	3

- REMARKS:
- 1. ROUTE CONDUIT BACK TO SOURCE
- 2. ROUTE CONDUIT STUB FROM BOX UP TO ACCESSIBLE CEILING
- 3. ROUTE CONDUITS TO CABLE TRAY

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ATTACHMENT 3

STRUCTURE ADTEK ENGINEERS. INC 9990 FAIRFAX BLVD #300 FAIRFAX, VA 22030 (703) 691-4040

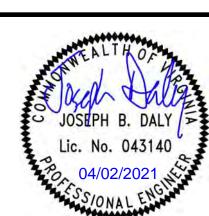
CIVIL/MARINE **MOFFATT & NICHOL** 4700 FALLS OF NEUSE ROAD SUITE 300 RALEIGH, NC 27609 (919) 78-4626

PROJECT: **JOHN WARNER** MARITIME HERITAGE CENTER

RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA



AGENCY: **TALL SHIPS PROVIDENCE FOUNDATION**



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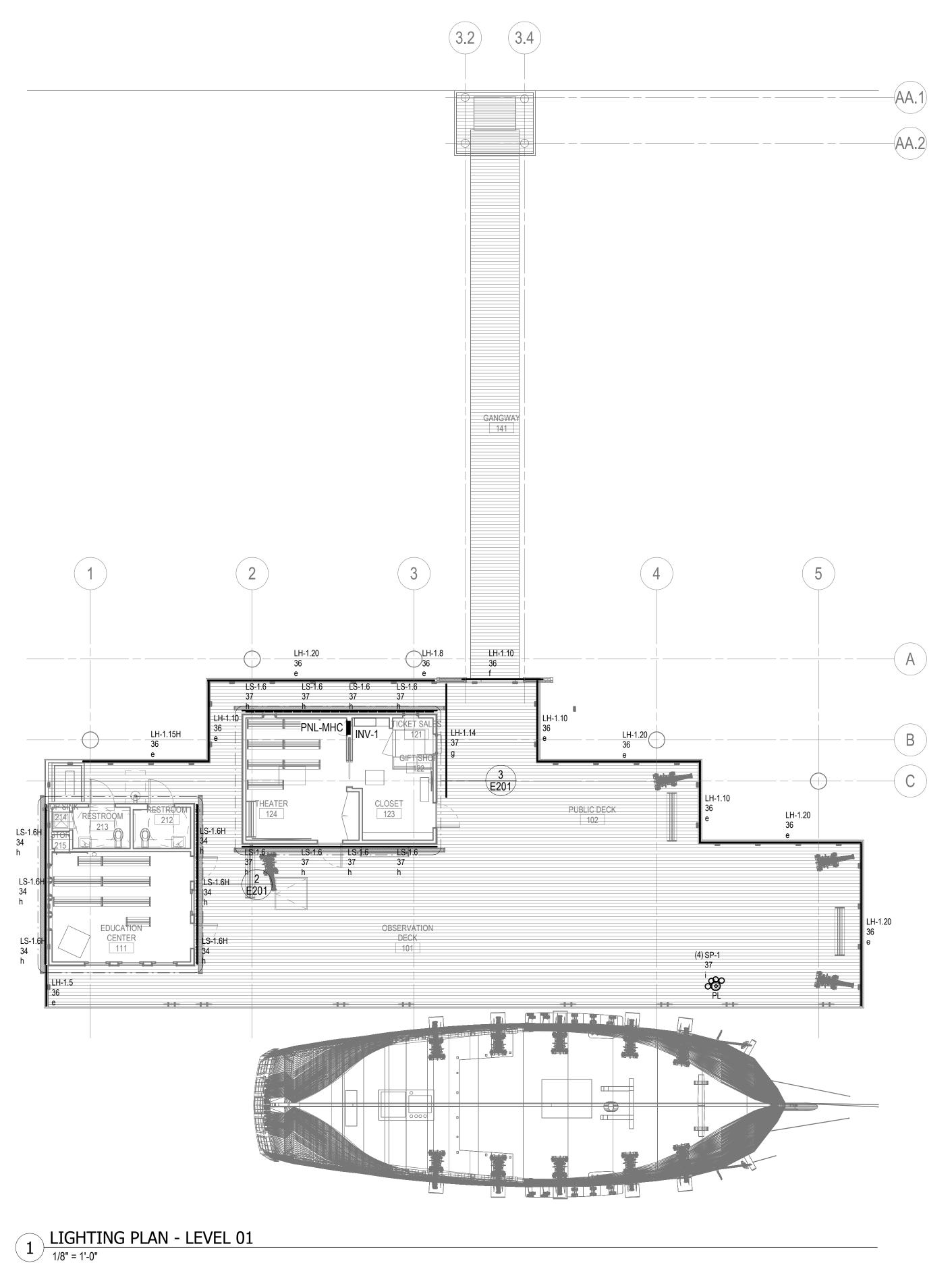
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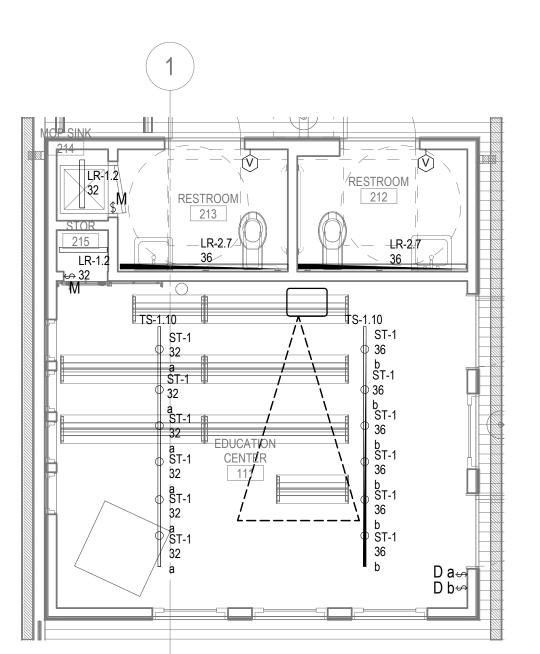
ELECTRICAL SPECIFICATIONS

APRIL 2, 2021

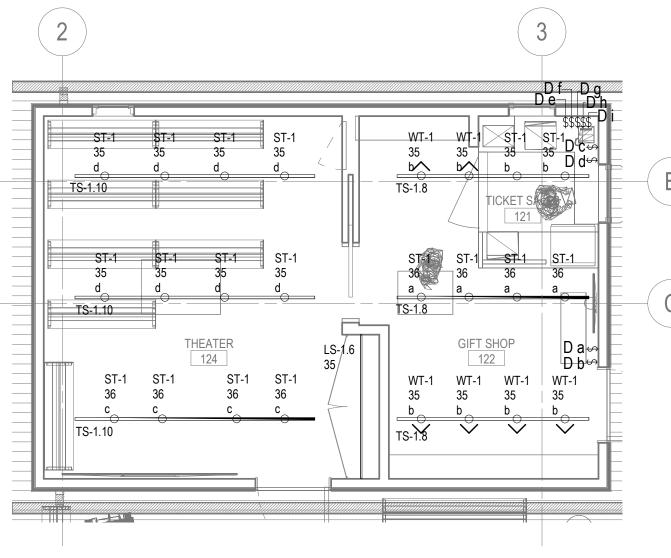
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2 LIGHTING PLAN - LEVEL 01 - COTTAGE 1



3 LIGHTING PLAN - LEVEL 01 - COTTAGE 2

GENERAL NOTES

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

Scale: 1/8" = 1'-0"

- A. REFER TO EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR WALL MOUNTED FIXTURES.
- B. NORMAL POWER LIGHT FIXTURES SHALL BE CIRCUITED FROM PANEL-MHC; EMERGENCY POWER LIGHT FIXTURES SHALL BE CIRCUITED FROM INV-1 UNLESS NOTED OTHERWISE.
- C. CONDUIT AND WIRING MAY NOT BE SHOWN GRAPHICALLY ON THE PLANS. PROVIDE COMPLETE CONDUIT AND WIRING BASED ON IDENTIFICATION OF CIRCUIT NUMBERS, RELAY NUMBERS, AND SWITCHING IDENTIFICATION.
- D. WHERE OCCUPANCY AND VACANCY SENSORS ARE SHOWN, PROVIDE APPROPRIATE TYPES AND QUANTITIES OF SENSORS TO ACCOMMODATE ROOM GEOMETRY. REFER TO SPEC SECTION 260923 FOR DETAILS. INSTALL OCCUPANCY AND VACANCY SENSORS AT LOCATIONS RECOMMENDED BY MANUFACTURER. SEE OCCUPANCY AND VACANCY SENSOR SHOP DRAWINGS FOR REFERENCE.

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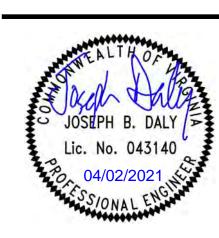
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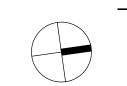
AGENCY: TALL SHIPS PROVIDENCE **FOUNDATION**

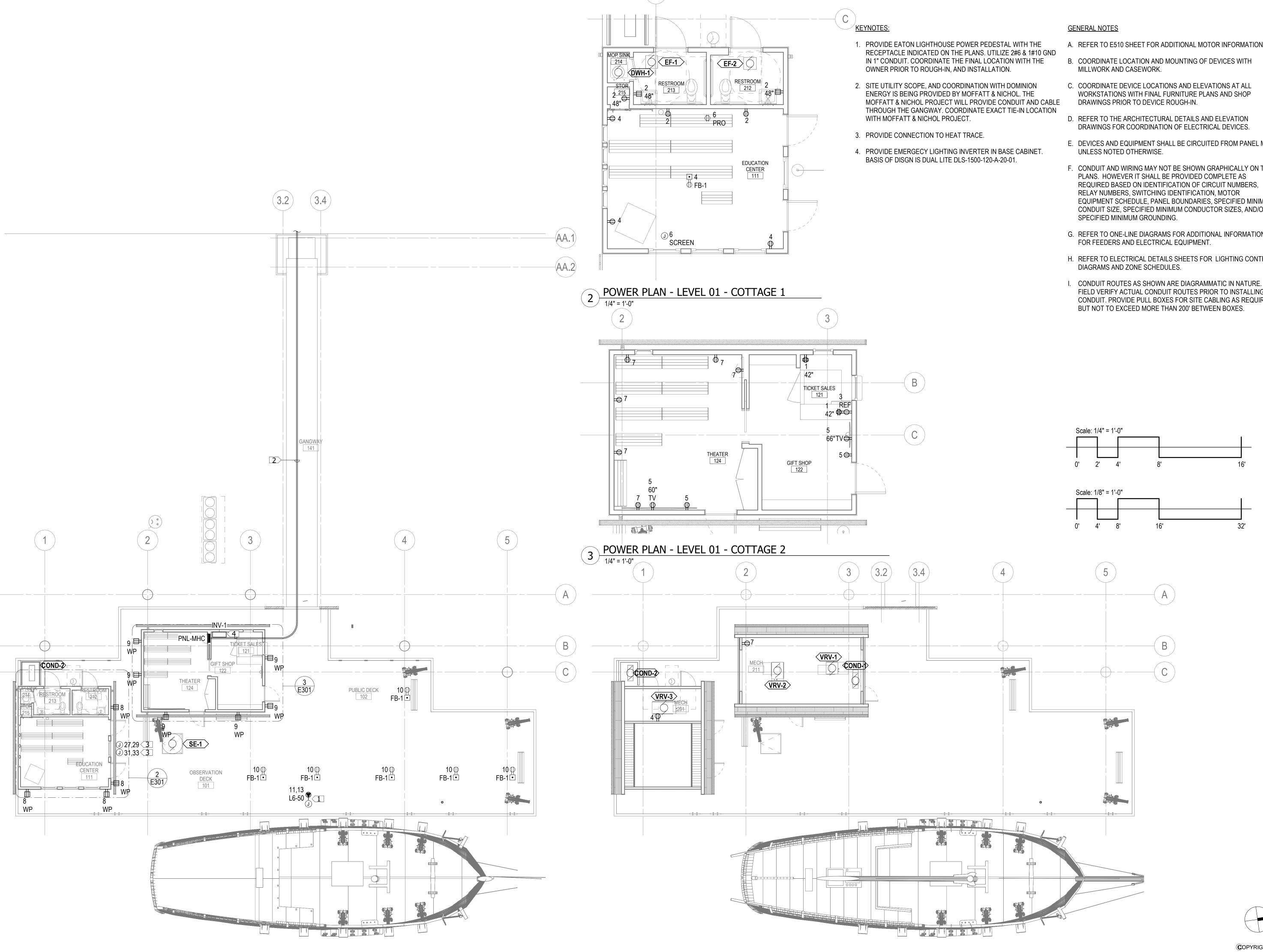


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LIGHTING PLAN - LEVEL

APRIL 2, 2021





A. REFER TO E510 SHEET FOR ADDITIONAL MOTOR INFORMATION.

B. COORDINATE LOCATION AND MOUNTING OF DEVICES WITH

C. COORDINATE DEVICE LOCATIONS AND ELEVATIONS AT ALL WORKSTATIONS WITH FINAL FURNITURE PLANS AND SHOP

D. REFER TO THE ARCHITECTURAL DETAILS AND ELEVATION DRAWINGS FOR COORDINATION OF ELECTRICAL DEVICES.

E. DEVICES AND EQUIPMENT SHALL BE CIRCUITED FROM PANEL MHC

F. CONDUIT AND WIRING MAY NOT BE SHOWN GRAPHICALLY ON THE PLANS. HOWEVER IT SHALL BE PROVIDED COMPLETE AS REQUIRED BASED ON IDENTIFICATION OF CIRCUIT NUMBERS, RELAY NUMBERS, SWITCHING IDENTIFICATION, MOTOR EQUIPMENT SCHEDULE, PANEL BOUNDARIES, SPECIFIED MINIMUM CONDUIT SIZE, SPECIFIED MINIMUM CONDUCTOR SIZES, AND/OR

G. REFER TO ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION

H. REFER TO ELECTRICAL DETAILS SHEETS FOR LIGHTING CONTROL

FIELD VERIFY ACTUAL CONDUIT ROUTES PRIOR TO INSTALLING CONDUIT. PROVIDE PULL BOXES FOR SITE CABLING AS REQUIRED, BUT NOT TO EXCEED MORE THAN 200' BETWEEN BOXES.

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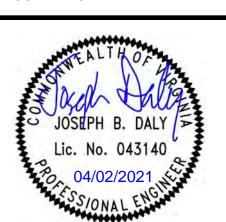
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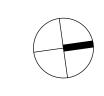
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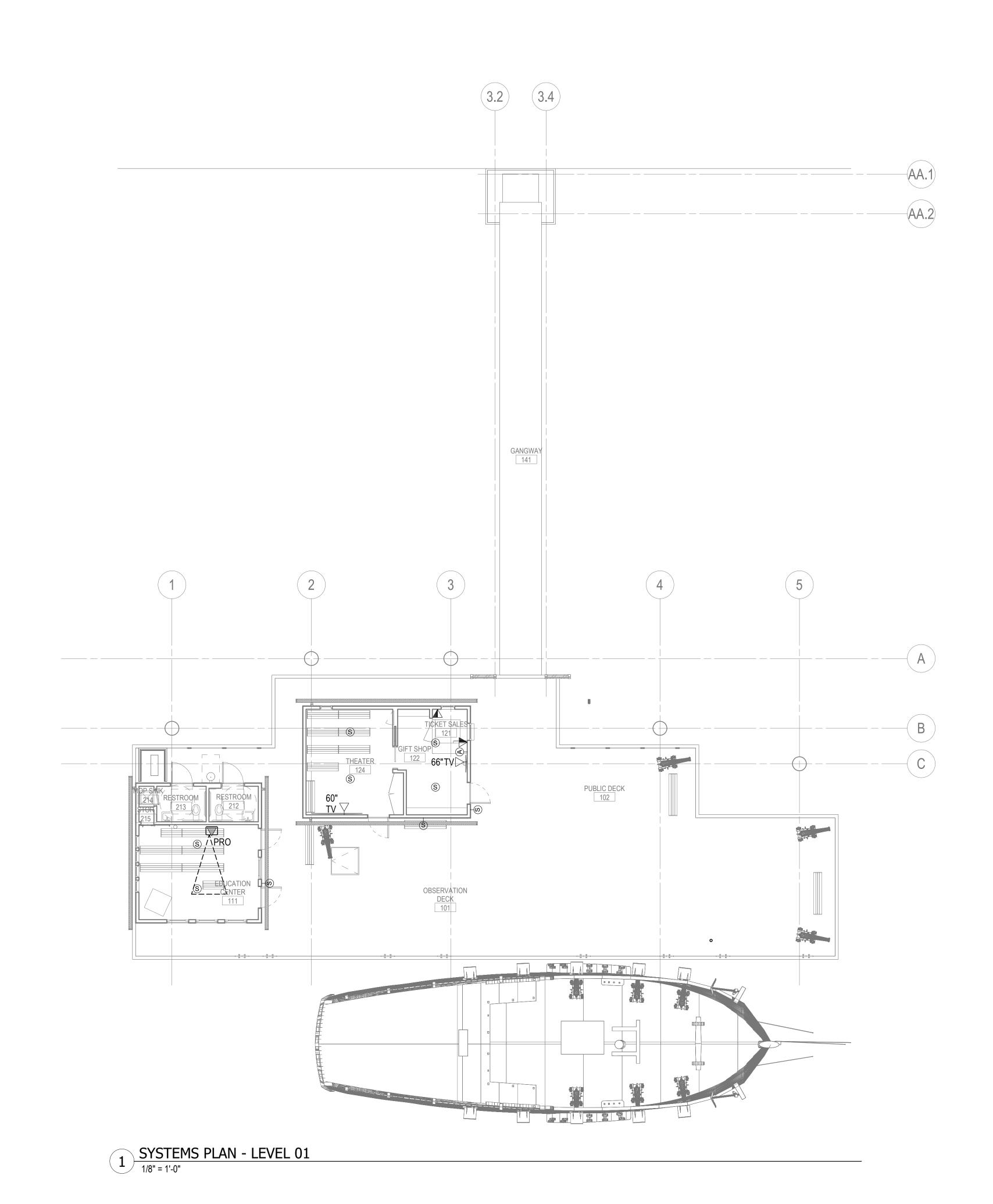


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POWER PLAN -LEVEL 01 AND MEZZANINE

APRIL 2, 2021





GENERAL NOTES

A. REFER TO ARCHITECTURAL ELEVATIONS FOR ADDITIONAL MOUNTING INFORMATION OF DEVICES.

B. COORDINATE DEVICE LOCATIONS AND ELEVATIONS AT ALL WORKSTATIONS WITH FINAL FURNITURE PLANS AND SHOP DRAWINGS PRIOR TO DEVICE ROUGH-IN.



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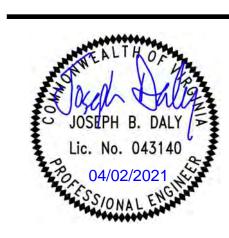
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PROJECT: **JOHN WARNER MARITIME HERITAGE CENTER**

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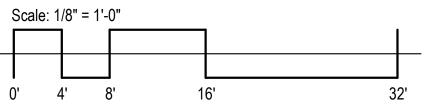
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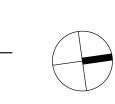


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SYSTEMS PLAN - LEVEL 01

DATE: APRIL 2, 2021





			LUMINAIRE SCHEDULE						
					AUTHOR:XXX				AUTHOR:XXX
TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	WATTS	VOLTAGE	Ballast/Power Supply	EQUAL MANUFACTURERS	NOTES	REVISION HISTORY
LH-1.5	TARGETTI DURA LAMP	DFN-TB-42-O-27-24-KT09UTL2-KT09UTC1-XX	SURFACE MOUNTED 5 FEET LONG BY 0.63" WIDE BY 0.59" HEIGHT IN A CONTRACTOR BUILT HANDRAIL GROOVE FLEXIBLE LED. DRIVERS TO BE PLACED IN A WET LISTED NEMA BOX. PROVIDE DIMMABLE DRIVERS AND COORDINATE DRIVER LOCATION WITH THE ARCHITECT. PROVIDE ALL MOUNTING HARDWAIRES AS REQUIRED.	21 VA	120 V	0-10V DIMMING	OR APPROVED EQUAL		
LH-1.8	TARGETTI DURA LAMP	DFN-TB-42-O-27-24-KT09UTL2-KT09UTC1-XX	SAME AS LH-1.5 BUT 8 FEET LONG	34 VA	120 V	0-10V DIMMING	OR APPROVED EQUAL		
LH-1.10	TARGETTI DURA LAMP	DFN-TB-42-O-27-24-KT09UTL2-KT09UTC1-XX	SAME AS LH-1.5 BUT 10 FEET LONG	42 VA	120 V	0-10V DIMMING	OR APPROVED EQUAL		
LH-1.14	TARGETTI DURA LAMP	DFN-TB-42-O-27-24-KT09UTL2-KT09UTC1-XX	SAME AS LH-1.5 BUT 14 FEET LONG	59 VA	120 V	0-10V DIMMING	OR APPROVED EQUAL		
LH-1.15H	TARGETTI DURA LAMP	DFN-TB-42-O-27-24-KT09UTL2-KT09UTC1-XX	SAME AS LH-1.5 BUT 15.5 FEET LONG	65 VA	120 V	0-10V DIMMING	OR APPROVED EQUAL		
LH-1.20	TARGETTI DURA LAMP	DFN-TB-42-O-27-24-KT09UTL2-KT09UTC1-XX	SAME AS LH-1.5 BUT 20 FEET LONG	84 VA	120 V	0-10V DIMMING	OR APPROVED EQUAL		
LR-1.2	SELUX	L60-1C30-935-M-SF3-SP3-2-WH-U-DIM-SM007	RECESSED MOUNT IN GYP CEILING 2 FEET LONG X 2 3/8" WIDE X 3 9/16" TALL, LOW GLARE MICROPRISMATIC AND SECONDARY DIODE DIFFUSING & DUST TIGHT LENS, RUNS TO BE INSTALLED BACK TO BACK TO MAKE CONTINUOUS/SEAMLESS RUNS, LENS MUST BE ONE SINGLE PIECE, 7.3 W/FT, 0-10V DIMMING, UNIVERSAL VOLTAGE	15 VA	120 V	0-10V DIMMING	OR APPROVED EQUAL		
LR-2.7	SELUX	L60-1C30-935-M-SF3-PM-7-WH-U-DIM-SM007	RECESSED PERIMETER MOUNT IN GYP WITH GYP FLANGE ON OPPOSITE SIDE OF WALL, 7 FEET LONG X 2 3/8" WIDE X 3 9/16" TALL, LOW GLARE MICROPRISMATIC AND SECONDARY DIODE DIFFUSING & DUST TIGHT LENS, RUNS TO BE INSTALLED BACK TO BACK TO MAKE CONTINUOUS/SEAMLESS RUNS, LENS MUST BE ONE SINGLE PIECE, 7.3 W/FT, 0-10V DIMMING, UNIVERSAL VOLTAGE	51 VA	120 V	0-10V DIMMING	OR APPROVED EQUAL		
LS-1.6	LEDLINEAR	KALYPSO-HYDRA-HD25-W8-27-6'-10-13000202 D-REM-096W-DIM-UNV-IP65	SURFACE MOUNTED 0.81" WIDE BY 0.33" TALL BY 6 FEET LONG LINER LED. IP67 RATED AND DUST PROOF LENSE. PROVIDE REMOTE DIMMABLE DRIVER AND COORDINATE THE LOCATION WITH ARCHITECT PROVIDE ALL MOUNTING HARDWARE AS REQUIRED	46 VA	120 V	0-10V DIMMING	OR APPROVED EQUAL		
LS-1.6H	LEDLINEAR	KALYPSO-HYDRA-HD25-W8-27-6.5'-10-130002 02 D-REM-096W-DIM-UNV-IP65	SAME AS LS-1.6H BUT 6.5 FEET LONG	49 VA	120 V	0-10V DIMMING	OR APPROVED EQUAL		
PL	NLS LIGHTING	RSAP-10-4R-188-9BC-ND-GRY-XX-XX	10 FEET TALL WITH 4" DIAMETER ALUMINUM ROUND POLE. CONTRACTOR TO COORDINATE AND DRILL HOLES FOR SP-1 FIXTURES TO BE MOUNTED ON THIS POLE	0 VA	0 V	N/A	OR APPROVED EQUAL		
SP-1	IGUZZINI	IPLCIO-M-HE-827-MD-UNV-15-D10-X417-X258- X250	POLE MOUNTED MARINE RATED SPOT LED LIGHT. PROVIDE HONENYCOMB LOUVER AND BLACK SNOOT.	14 VA	120 V	0-10V DIMMING	OR APPROVED EQUAL		
ST-1	SYSTEMALUX	1770S1-BO-927-20-120-52-1593-1596-52-1697- 52	TRACK MOUNT STUDIO MINI LED PROJECTOR HEAD MOUNTED TO TS-1 TRACK, 26 DEG BEAM SPREAD, WITH BLACK HEX LOUVER AND BLACK SNOOT TRAILING EDGE DIMMING, UNIVERSAL VOLTAGE	13 VA	120 V	LEADING AND TRAILING EDGE DIMMING	OR APPROVED EQUAL		
TS-1.8	SYSTEMALUX	8008-S1-02 02-8019-S1	SURFACE MOUNTED 1 CIRCUIT TRACK. PROVIDE END FEEDER AND ALL MOUNTING HARDWARE AS REQUIRED	0 VA	120 V	LEADING AND TRAILING EDGE DIMMING	OR APPROVED EQUAL		
TS-1.10	SYSTEMALUX	8008-S1-02 02-8019-S1	SAME AS TS-1.8 BUT 10 FEET LONG	0 VA	120 V	LEADING AND TRAILING EDGE DIMMING	OR APPROVED EQUAL		
WT-1	SYSTEMALUX	1770S1-BO-927-60-120-52-1593-1599-1598-159 6-52-1700-52	TRACK MOUNT STUDIO MINI LED PROJECTOR HEAD MOUNTED TO TK-1 TRACK, 57 DEG BEAM SPREAD WITH WALLWASHER VISO AND 1 WAT SPREAD LENS, WITH BLACK HEX LOUVER AND BLACK SNOOT. TRAILING EDGE DIMMING, UNIVERSAL VOLTAGE	13 VA	120 V	LEADING AND TRAILING EDGE DIMMING	OR APPROVED EQUAL		

GENERAL NOTES:

- A. REFER TO DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION BEFORE ORDERING. B. ALL LED LUMINAIRES MUST COMPLY WITH LM-79 AND LM-80 TESTING STANDARDS. L70 LIFE SHALL HAVE A MINIMUM OF 50,000 HOURS.
- C. ANY PROPOSED SUBSTITUTIONS MUST BE SUBMITTED WITH PHOTOMETRIC CALCULATIONS AND CATALOG SHEETS WITH DATA TO PROVE EQUAL CHARACTERISTICS. PROVIDE PHYSICAL SAMPLES OF PROPOSED SAMPLES UPON REQUEST

ALLOWANCE NOTES:

A1. MAXIMUM ALLOWANCE PRICE OF \$XXX PER LUMINAIRE. DOES NOT INCLUDE FREIGHT, TAXES, CONTRACTOR MARKUP OR INSTALLATION COSTS.

NOTES:

- 1. UL LISTED FOR WET LOCATION.
- 2. COORDINATE MOUNTING AND LOCATION WITH EQUIPMENT IN ROOM.
- 3. PROVIDE WALL TO WALL INSTALLATION. FIELD VERIFY LENGTH PRIOR TO ORDERING.
- 4. COORDINATE CHEVRONS WITH PLANS PRIOR TO ORDERING
- 5. INCLUDE POWER SUPPLIES, MOUNTING HARDWARE, AND NECESSARY COMPONENTS TO PROVIDE A COMPLETE INSTALLATION. FOLLOW MANUFACTURER'S
- RECOMMENDATIONS FOR WIRE SIZES AND DISTANCE LIMITATIONS.

44 Canal Center Plaza, Suite 100 Alexandria, Virginia 22314 Telephone 703.836.7766

> STRUCTURE ADTEK ENGINEERS. INC 9990 FAIRFAX BLVD #300 FAIRFAX, VA 22030 (703) 691-4040

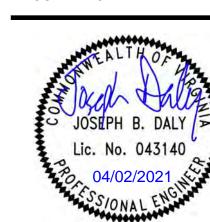
CIVIL/MARINE **MOFFATT & NICHOL** 4700 FALLS OF NEUSE ROAD SUITE 300 RALEIGH, NC 27609 (919) 78-4626

PROJECT: **JOHN WARNER MARITIME HERITAGE CENTER**

> RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA



AGENCY: TALL SHIPS PROVIDENCE FOUNDATION



\triangle NO	DESCRIPTION	DATE
	PERMIT SET	04/02/2021
	ISSUANCE HISTORY - THIS	SHEET

2135-015-00 HGA NO:

> LUMINAIRE SCHEDULE

DATE: APRIL 2, 2021

FLOOR BOX SCHEDULE

BOX TYPE **BOX DESCRIPTION** MANUFACTURER MODEL POWER REQUIREMENTS VOICE/DATA REQUIREMENTS AV REQUIREMENTS COVER REQUIREMENTS NOTES POWER ONLY CAST IN PLACE FLOOR BOX | WIREMOLD OR HUBBELL | RFB2 OR CFB2 | DUPLEX RECEPTACLE | NONE NONE SURFACE STYLE COORDINATE COLOR FOR COVER PLATES WITH ARCHITECT

													ELECTRICAL MECHANIC	AL EQUIPMENT	SCHEDULE										
																		VSD OR S	TARTER RESPO	ONSIBILITY	CONTR	ROL RESPONSI	BILITY	START-STOP	
															DISCONNECT		STARTER							CONTROL	OTHER EQUIPMENT
TAG	LOCATION	CONFIGURATION	N HP	KW	FLA	MCA	OCP	VOLTAGE	E PHASE	E LOAD	PANEL	CIRCUIT#	CONDUIT AND WIRE	FURNISHED	SIZE	VSD	SIZE	FURNISHED	INSTALLED	WIRED	FURNISHED	INSTALLED	WIRED	DEVICE	INTERLOCKS / REMARKS
CONDENSE	R						_				_														
COND-1	MECH 211	SINGLE			15.3	16.5	20	240 V	1	3672 VA	PNL-MHC	23,25	2#12 & 1#12 GND IN 3/4" C	DIV. 26	30A NFSS	NO	W/ EQUIP.	DIV. 23	DIV.26	DIV. 26	DIV. 23	DIV. 23	DIV. 23	ACS	
COND-2	OBSERVATION DECK 10	1 SINGLE			19.0	29.1	35	240 V	1	4560 VA	PNL-MHC	28,30	2#8 & 1#10 GND IN 3/4" C	DIV. 26	60A NFSS	NO	W/ EQUIP.	DIV. 23	DIV.26	DIV. 26	DIV. 23	DIV. 23	DIV. 23	ACS	
EXHAUST F	AN									'															
EF-1	RESTROOM 113	SINGLE	1/10		4.4	5.5	15	120 V	1	528 VA	PNL-MHC	12	2#12 & 1#12 GND IN 3/4" C	DIV. 26	15A MMCS	NO	W/ EQUIP.	DIV. 23	DIV.26	DIV. 26	DIV. 23	DIV. 23	DIV. 23	ACS	
EF-2	RESTROOM 114	SINGLE	1/10		4.4	5.5	15	120 V	1	528 VA	PNL-MHC	14	2#12 & 1#12 GND IN 3/4" C	DIV. 26	15A MMCS	NO	W/ EQUIP.	DIV. 23	DIV.26	DIV. 26	DIV. 23	DIV. 23	DIV. 23	ACS	
SEWAGE EJ	IECTOR			•																					
SE-1	OBSERVATION DECK 10	1 DUPLEX	5		22	27.5	30	240 V	1	5280 VA	PNL-MHC	24,26	2#10 & 1#10 GND IN 3/4" C	DIV. 26	30A NFSS	NO	W/ EQUIP.	DIV. 22	DIV.26	DIV. 26	DIV. 22	DIV. 22	DIV. 22	ACS	SINGLE POINT CONNECTION
VRV UNIT					•			·	•	•															
VRV-1	MECH 211	SINGLE			0.48	0.6	15	240 V	1	115 VA	PNL-MHC	19,21	2#12 & 1#12 GND IN 3/4" C	DIV. 26	15A MMCS	NO	W/ EQUIP.	DIV. 23	DIV.26	DIV. 26	DIV. 23	DIV. 23	DIV. 23	ACS	
VRV-2	MECH 211	SINGLE			1.44	1.8	15	240 V	1	346 VA	PNL-MHC	15,17	2#12 & 1#12 GND IN 3/4" C	DIV. 26	15A MMCS	NO	W/ EQUIP.	DIV. 23	DIV.26	DIV. 26	DIV. 23	DIV. 23	DIV. 23	ACS	
VRV-3	MECH 201	SINGLE			2.72	3.4	15	240 V	1	653 VA	PNL-MHC	20,22	2#12 & 1#12 GND IN 3/4" C	DIV. 26	15A MMCS	NO	W/ EQUIP.	DIV. 23	DIV.26	DIV. 26	DIV. 23	DIV. 23	DIV. 23	ACS	
WATER HEA	ATER																								
DWH-1	MOP SINK 115	SINGLE	-	2	8.3	10.375	15	240 V	1	1992 VA	PNL-MHC	16,18	2#12 & 1#12 GND IN 3/4" C	DIV. 26	15A MMCS	NO	W/ EQUIP.	DIV. 22	DIV.26	DIV. 26	DIV. 22	DIV. 22	DIV. 22	ACS	

	Location: GIF Supply From: Mounting: RE Enclosure Type: NE	CESSED			Distribu	ition System: Phase: Wire:	: 1					A.I.C Rating: Mains Type: Mains Rating: MCB Rating:	MCB 200 A	
Note	Descriptions A		Pole	СКТ	,	4	В		CKT	Pole	Amps	Descriptions		Note
	RCPT - RM 121	20 A	1	1	720 VA	900 VA			2	1	20 A	RCPT - RM 111-114		
	REFRIGERATOR - RM 121	20 A	1	3			960 VA	900 VA	4	1	20 A	RCPT - RM 111, 201		
	RCPT - RM 124, 122	20 A	1	5	1080 VA	600 VA			6	1	20 A	PROJECTOR & SCR	REEN - RM 111	
	RCPT - RM 124	20 A	1	7			1260 VA	720 VA	8	1	20 A	RCPT - EXTERIOR		
	RCPT - EXTERIOR	20 A	1	9	1080 VA	1080 VA			10	1	20 A	RCPT - RM 101, 102	1	
			_	11			4800 VA	528 VA	12	1	15 A	EF-1 - RM 113		
	RCPT - RM 101	50 A	2	13	4800 VA	528 VA			14	1	15 A	EF-2 - RM 114		
				15			173 VA	996 VA	16	-				
	VRV-2 - RM 211	15 A	2	17	173 VA	996 VA		333 171	18	2	15 A	A DWH-1 - RM 115		
				19	110 111	000 171	58 VA	326 VA	20					
	VRV-1 - RM 211	20 A	2	21	58 VA	326 VA	00 V/1	020 V/1	22	2	15 A	VRV-3 - RM 201		
				23	30 VA	320 VA	1836 VA	2640 VA	24					
	COND-1 - RM 211	20 A	2	25	1836 VA	2640 VA	1030 VA	2040 VA	26	2	30 A	SE-1 - RM 101		
				-	1030 VA	2040 VA	4000 \/A	2200 \/A						
	TANK HEAT TRACE	30 A	2	27	4000 \ / 4	0000) (4	1800 VA	2280 VA	28	2	35 A	COND-2 - RM 101		
				29	1800 VA	2280 VA	4000144	404344	30		20.1	. = 2 2 2 2 2 2 2		
	PIPING HEAT TRACE	30 A	2	31			1800 VA	104 VA	32	1	20 A	LTG - COTTAGE 1		
				33	1800 VA	296 VA			34	1	20 A	LTG - COTTAGE 1 EXTERIOR		
	LTG - COTTAGE 2	20 A	1	35			246 VA	901 VA	36	1	20 A	EMERGENCY LIGHT	TING INVERTER	
	LTG - COTTAGE 2 EXTERIOR	20 A	1	37	480 VA	0 VA			38	1	20 A	SPARE		-
	SPARE	20 A	1	39			0 VA	0 VA	40	1	20 A	SPARE		-
	SPARE	20 A	1	41	0 VA	0 VA			42	1	20 A	SPARE		
						se A		ise B						
					2347	'3 VA	2232	27 VA						
'4 C	lassification		Conno	cted Loa	4	Demand Fac	otor	Estimated I	Domand			Panel	Totala	
- Ltg			Colline		027 VA	Demand Fac	125.00%	LStilliateu i	2533 \	VA		railei	Totals	
	ot Non-Dwlg				020 VA		100.00%		7020 \			Total Conn. Load:	45800 VA	
	uipment				880 VA		100.00%		11880 \			Total Est. Demand:		
	uipment Greater than 3 Hr				0 VA		0.00%		0 \			Total Conn. Current:	191 A	
- Hea	·			9	192 VA		100.00%		9192 \	VA	Total E	st. Demand Current:	198 A	
- Hea	ating Greater than 3 Hr				0 VA		0.00%		0 \	VA				
- Co	pling			80	693 VA		100.00%		8693 \	VA				
- Co	oling Greater than 3 Hr				0 VA		0.00%		0 \	VA				
- NS	Intmtt Motor				0 VA		0.00%		0 \	VA				
- Kito	chen 65% (6 or more Items)				0 VA		0.00%		0 \	VA				
are	·				0 VA		0.00%		0 \	VA				
	pard Notes:				l									

S	NEMA 3R ERVICE RATED
WORK ABOVE THIS LINE TO BE PERFORMED UNDER A DIFFERENT CONTRACT	
	TO TESLA SOLAR ROOF
WORK UNDER THIS LINE TO BE PERFORMED UNDER THIS CONTRACT	200N
	PNL MHC 240/120V 200A MCB
WORK LEFT OF THIS LINE TO PERFORMED UNDER THIS C	
1 ELECTRICAL ONE-LI	NE DIAGRAM

- A. EQUIPMENT INFORMATION IN SCHEDULE IN BASED ON DESIGN EQUIPMENT. FINAL REQUIREMENTS TO BE COORDINATED WITH EQUIPMENT PROVIDED BY DIVISION 22, 23 AND 26.
- B. WIRE SIZE IS BASED ON MCA REQUIREMENTS OF EQUIPMENT WITHOUT CONSIDERATION FOR VOLTAGE DROP BASED ON INSTALLED WIRE LENGTHS.
- C. REFER TO MECHANICAL ELECTRICAL EQUPIMENT SCHEDULE FOR ADDITIONAL MOTOR INFORMATION, CONDUIT, AND CONDUCTOR SIZES TO MECHANICAL EQUIPMENT.
- (S D. REFER TO FEEDER SCHEDULE FOR WIRE AND CONDUITT SIZES AS WELL AS FEEDER REQUIREMENTS.
- E. REFER TO PANEL SCHEDULE FOR RATINGS AND ADDITIONAL REQUIREMENTS OF PANELBOARDS AND DISTRIBUTION BOARDS.

KEYNOTES:

FEEDER AND CONDUIT SIZES - AL

CONDUCTOR

4#250 AL & 1#6 CU GND

FEEDER

(AMPS)

200N

100= 3 WIRES 100N= 4 WIRES

CONDUIT

* VOLTAGE DROP CONSIDERATIONS NOT TAKEN INTO CONSIDERATION IN TABLE.

- . SOLAR ROOF SYSTEM IS TO BE PROVIDED BY TESLA. COORIDNATE REQUIREMENTS FOR PV SYSTEM WITH TESLA.
- 2. SITE UTILITY SCOPE AND COORDINATION WITH DOMINION ENERGY IS BEING PROVIDED BY MOFFATT & NICHOL. COORDINATE ELECTRICAL SERVICE DISTRIBUTION REQUIREMENTS AND TIE-IN WITH MOFFATT & NICHOL.

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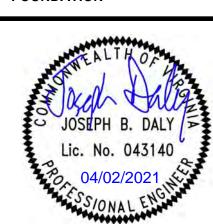
CIVIL/MARINE **MOFFATT & NICHOL** 4700 FALLS OF NEUSE ROAD SUITE 300 RALEIGH, NC 27609 (919) 78-4626

PROJECT: **JOHN WARNER** MARITIME HERITAGE CENTER

> RIPARIAN AREA ADJACENT TO 1A PRINCE STREET ALEXANDRIA, VA



AGENCY: TALL SHIPS PROVIDENCE **FOUNDATION**



\triangle NO	DESCRIPTION	DATE
	PERMIT SET	04/02/2021
	ISSUANCE HISTORY - THIS	SCHEET

2135-015-00 HGA NO:

ELECTRICAL SCHEDULES

Project Information

2015 (ECC Energy Code Project Title, Tall Ships Foundation Project Type: New Construction

Construction Site: Dwner/Agest: Claire Sassin Alexandria, VA 22314 Tall Ships Foundation Alexandria VA 22314

44 Canal Center Plaza Alexandria, VA 22314 703.317.6024

Dasigner/Contractor:

Reduced interior lighting power. Requirements are implicitly enlarced within interior lighting allowance calculations.

Allowed Interior Lighting Power

Additional Efficiency Package(s)

	A Area Category	Finor Area (ft2)	C Allowed Watts / ft2	Allowed Watts (B X C)
1-Cottage 1 (Museum)		350	0.92	530
2-Cottage 2 (Museum)		384	0.92	353
			Fotal Allowed Watts	683

Proposed Interior Lighting Power				-
A	В	C	D	E
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Fixture	# of Fixtures	Fixture Watt.	(C X D)
1-Coltage 1 (Museum)				- 100
ST-1: Other	4	12	13	156
LR-2.7 Other:	1	2	51	102
LR-1.2 Other.	T	2	15	156 102 30
2-Cottage 2 (Museum)				
ST-1; Other	1	18	1.3	234
WT-1: Other	-1-	6.	13	78
		Tulvi Propos	ed Watts =	600

Interior Lighting PASSES: Design 12% better than code Interior Lighting Compliance Statement

Compliance Statement. The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMCheck Version 4.1.5.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Project Title: Tall Stops Foundation Report date: 04/02/21 Data filename C\Users\gljoshiar\Desirtop\Tall Ships rt= Page 1 of 9

> COMcheck Software Version 4.1.5.0 **Inspection Checklist**

Energy Code: 2015 IECC

Additional Comments/Assumptions:

Requirements: 85.0% were addressed directly in the COMcheck software Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Reg.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed information provided should include interior lighting power calculations, wattage of bulbs and bullasts, transformers and control devices.	□Complies □Does Not □Not Closervable □Not Applicable	
C103.Z (PRB) ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	Complies Does Not Nos Claservable Nos Applicable	
C406 [PR9] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	Complies Doses Not Not Observable Not Applicable	Requirement will be met: Location on plans/spec; M002

1 High Impact (Tier 1) Z Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Fitte: Tall Stops Foundation Report date: 04/02/21 Data filename C\Users\g|joshuar\Desirtop\Tall Ships.rcir Page 4 of 9



Project Information

Energy Code 2015 (ECC Ptoject Title, Tall Ships Foundation Project Type: New Construction 3 (Other) Exterior Lighting Zone

Construction Site: Alexandria, VA 22314

Dwner/Agant Claire Sassin Tall Ships Foundation Alexandria VA 22314 Davigner/Contracto 44 Canal Center Plaza Suite 100 Alexandria, VA 22314 703.317.6024

Report date: D4/02/21

Rage 2 of 9

Allowed Exterior Lighting Power

A Area/Surface Category	Quantity	C Allowed Watts / Unit	D Tradable Wattage	Allowed Watts (B X C)
Plaza area	2458 7/2	0.16	Yes	393
Numinated area of facade wall or surface	88 H2	0.15	No	15
Main entry	9 ft of door	30	Yes	270
Other door (not main entry)	9 ft of door	20	Yes	180
		Total Tradab	we Wats (a) =	843
		Total All	owed Walts =	856
	Tiglat All	gwed Supplement	al-Watts (b) =	750

(ii) Waitage tradeciffs are only allowed between tradeble areas/surfaces (b) A supplemental allowance equal to 750 watts may be appried toward compliance of both non-tradable and tradable areas/surfaces.

B Lamps/ Fixture	C # of Fixtures	Fixture Watt.	(C X D)
- 76			
1	4	-21	21
4.	7.	34	3.4
1.0	4	42	166
1.1	4	94	336
1.	4	1.4	58
.1	1.1	65	65
.1	4	49.	196
	8	46	368
T	2	49	98
	4.1	46	46
.1	.1	59	59.
	Lamps/	Lamps/ # of Fixture Fixtures	Lamps/ # of Fixture Fixture Fixtures Watt. 1 1 21 1 34 1 4 42 1 4 84 1 1 65 1 4 49 1 8 46

Section # & Reg.IO	Footing / Foundation Inspection	Complies?	Comments/Assumptions
(402,2,6 (FO12) ⁷	Radiant heating systems panels insulated to >=R-3 5 on face apposite space being heated.	Complies Does Not Not Observable	Exception: Requirement does not apply. See the Envelope Assembles table for Values.

Additional Comments/Assumptions:

Project Little: Tall Stops Foundation

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Project Title: Tall Strips Foundation

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tigh (mpact (Tier I)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)	
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Report date: 04/02/21 Page 5 of 9

Trifal Tradable Proposed Watts = oderlor Lighting PASSES: Design 15% better than code

Exterior Lighting Compliance Statement

Project Title: Tall Stops Foundation

& Reg.IU

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Rough-In Einstrical Inspection

C405.2.1 Lighting controls installed to uniformly □Complies [EL15] reduce the lighting load by at least □Does Not

C405.2.1, Independent lighting controls installed □Complies CA05.2.2 per approved lighting plans and all Does Not

manual controls readily accessible and Not Observable

0405.2.1 Occupancy sensors Installed In

£405.2.2. Automatic controls to shut off all

(2405.2.3 Daylight zones provided with (EL16) Individual controls that control the

C405.2.3. Primary sidelighted areas are

C405.2.3. equipped with required lighting

C405.2.3. Enclosed spaces with daylight area

lighting plans.

C405.2.4 Additional interior lighting power

[EL25]*** lighting installed. Controls will be

C405.3 Exit signs do not exceed 5 watts per

Additional Comments/Assumptions:

Project Fitte: Tall Ships Foundation

approved lighting plans and is automatically controlled and

separated from general lighting.

daylight controlled, set based on

business operation time-of-day, or

reduce connected lighting > 30%.

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C405.2/5 Automatic lighting controls for exterior Complies.
[EL25]*** Dighting installed, Controls will be Copes Nor

C405.2.3. under skylights and rooftop monitors Does Not are equipped with required lighting

C405.2.4 Separate lighting control devices for Complies

specific uses installed per approved Doors Not

allowed for special functions per the Dooes Nor

building lighting installed in all

lights independent of general area

(EL18) required spaces

(EL23) visible to occupants.

[EL22] buildings.

C405.2.3, controls.

C405.2.3

[EL20]

(ELG)1

face.

DNot Applicable

☐Not Observable

Direct Applicable

Divor Applicable

☐Not Coservable Not Applicable

☐Not Opservable □Not Applicable

Does Not

-Complies Does Not

□Complies

Does Not ☐Nos Coservable

Not Applicable

☐Not Observable

Divot Applicable

■Not Observable

Not Applicable

Not Observable
Not Applicable

☐Not Coservable

DNot Applicable

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Does Not. ■Not Observable

OComplies.

☐ Coroplies

Does Not

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans. specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4-1-5.0 and to comply with any applicable mandatory. requirements listed in the Inspection Checklist.

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AGENCY: TALL SHIPS PROVIDENCE **FOUNDATION**

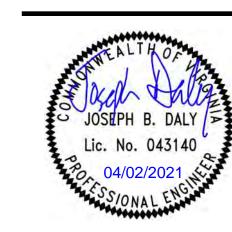
Report date: 04/02/21

Report date: 04/02/21

Page 6 of 9

Comments/Assumptions

Rade 3 of 9



PERMIT	SET	04/02/2021
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		SSUANCE HISTORY - TI

HGA NO: 2135-015-00

ELECTRICAL

APRIL 2, 2021

Section # & Reg.ID	Final Inspection	Complies?	Comments/Assumptions
C408.25.	Furnished O&M instructions for systems and equipment to the building owner or designated	Complies Does Not	
14171	representative	Not Observable	
C405.4.1 [FI18] ³	Interor installed lamp and fixture alonting power is consistent with what	Complies.	See the Interior Lighting furthre screedule for values
	is shown an the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	Nos Coservable Nos Applicable	
(F)19]) with w	Exterior lighting power is consistent with what is shown on the approved	Complies Does Not	See the Exterior Lighting livture schedule for values
	lighting plans, demonstrating proposed watts are less than or equal to allowed watts	Not Observable Not Applicable	
(1408,2,5. 1	Furnished as-built drawings for electric power systems within 90 days	Complies Does Not	
F116]7	of system acceptance.	Not Observable	
	Lighting systems have been tested to ensure proper calibration, adjustment.	Complies Does Not	
-	programming, and operation.	Not Observable	

Additional Comments/Assumptions:

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)	
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Page 7 of 9

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) Report date: 04/02/21

Project Fitte: Tall Stres Foundation Page 8 of 9 Data filename C\Users\gljoshuar\Desirtop\Tall Ships zoir

Project Title: Tall Stops Epundation

Report date: D4/02/21 Page 9 of 9 Data filename C\Users\gljoshvar\Usertop\Tall Ships # (

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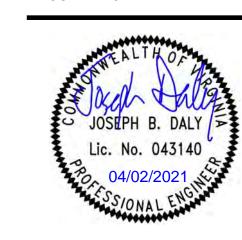
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FOUNDATION





HGA NO: 2135-015-00

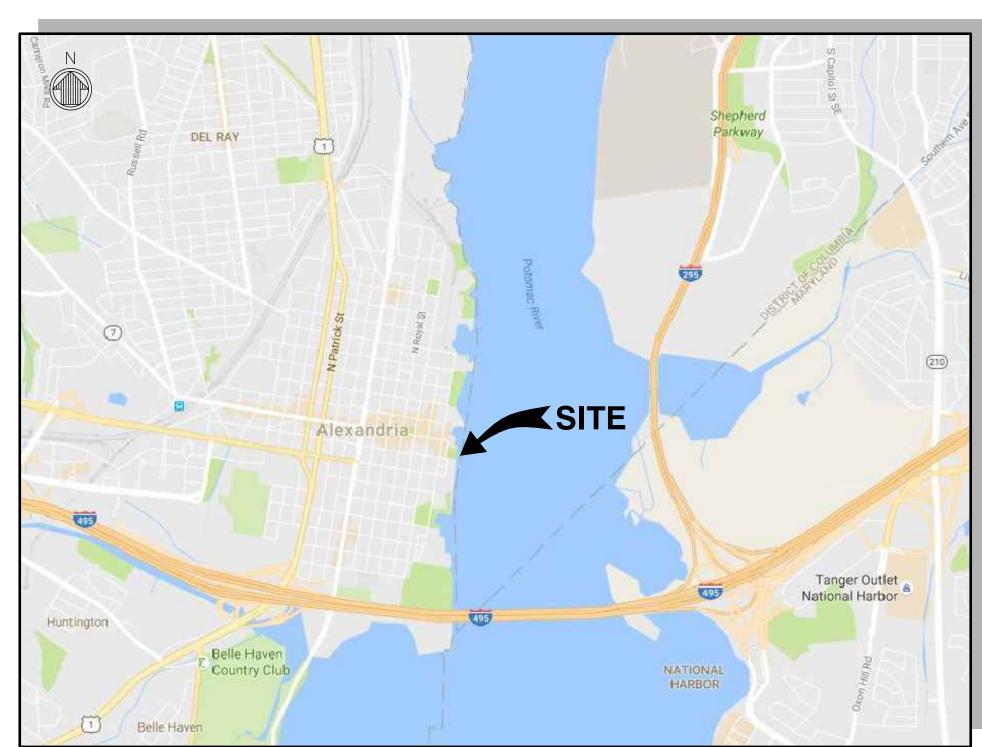
ELECTRICAL COMCHECK

DATE: APRIL 2, 2021

10/20/2022

UTILITY AND MARINE INFRASTRUCTURE IMPROVEMENTS JOHN WARNER MARITIME HERITAGE CENTER

ALEXANDRIA VIRGINIA TOWNSHIP 3N, RANGE 69W, SECTION 34



VICINITY MAP

NTS

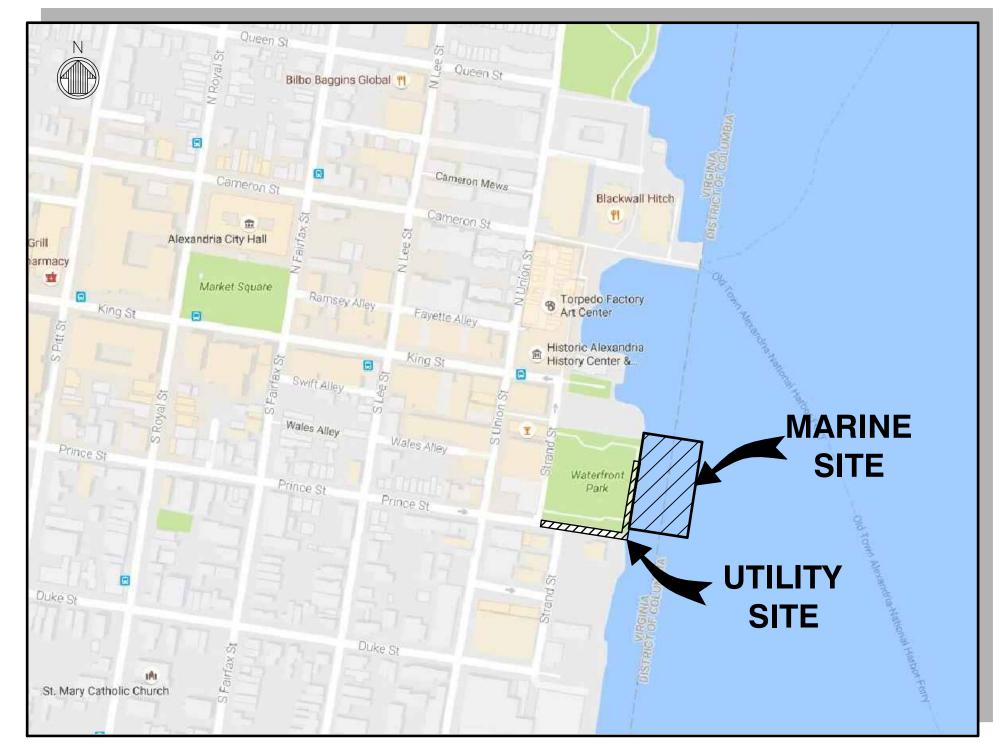
UTILITY INFRASTRUCTURE PROJECT DESCRIPTION:

THE JOHN WARNER MARITIME HERITAGE CENTER PROJECT IS LOCATED LANDWARD OF WATERFRONT PARK (PARCEL 075.01-05-08) AND INCLUDES WORK WITHIN THE RIGHT-OF-WAY OF PRINCE STREET.

THE UTILITY INFRASTRUCTURE ENCUMBERS 4,820 SQUARE FEET (0.111 ACRES). APPROXIMATELY 3,159 SQUARE FEET LIES WITHIN THE RESOURCE PROTECTION AREA (RPA). THE PARCEL IS ZONED WATERFRONT PARK AND RECREATION (WPR). THE UTILITY INFRASTRUCTURE WILL SUPPORT THE OPERATION OF THE JOHN WARNER MARITIME HERITAGE CENTER AND MOORING OF TALL SHIP PROVIDENCE

MARINE INFRASTRUCTURE PROJECT DESCRIPTION:

THE MARINE INFRASTRUCTURE FOR THE PROJECT CONSISTS OF THE CONSTRUCTION OF AN 80 SQUARE FOOT PILE SUPPORTED TIMBER LANDING, A 6-FOOT X 67-FOOT LONG ALUMINUM ARTICULATING GANGWAY, AND A FLOATING BARGE PLATFORM THAT SUPPORTS MOORING OF THE 64-FOOT LONG TALL SHIP PROVIDENCE AND JOHN WARNER MARITIME HERITAGE CENTER. THE FLOATING BARGE PLATFORM IS ANCHORED BY FIVE (5) 80-FOOT LONG 24-INCH DIAMETER STEEL PIPE PILES THAT LIE LANDWARD OF THE PIERHEAD LINE WITH THE ENTIRE MARINE INFRASTRUCTURE EXTENDING APPROXIMATELY 115 FEET OFFSHORE OF THE EXISTING BULKHEAD. THE MARINE INFRASTRUCTURE APPROVED UNDER SUP #2021-00001 AND BUILDING PERMIT BLDG 2021-00332.



LOCATION PLAN

PREPARED FOR:

| Tall Skip | PROVIDENCE | ALEXANDRIA, VA

TALL SHIP PROVIDENCE FOUNDATION
201 N. UNION STREET, SUITE110
ALEXANDRIA, VIRGINIA 22314
703-304-6685
CONTACT: CLAIR SASSIN
clair.sassin@tallshipprovidence.org

moffatt & nichol

4700 FALLS OF NEUSE RD, SUITE 300 RALEIGH, NC 27609 919-781-4626 CONTACT: MARK PIRRELLO, P.E. mpirrello@moffattnichol.com VA PE: 0402030083

Va 811.Com Dig With GOOG	P
KNOW WHAT'S BELOW. CALL BEFORE YOU DIG. DIAL 811 IN VIRGINIA OR 1-800-552-7001	_

ISSUED FOR PERMIT
ISSUED: 2022-10-20
NOT TO BE USED FOR CONSTRUCTION

PLAN NUMBER:

APPROVED DATE:

DEPARTMENT OF TRANSPORTATION
& ENVIRONMENTAL SERVICES.

G-001INDEX: 1 OF 41

MARK ANTHONY

PIRRELLO

Lic. No.030083

Reference No.

ATTACHMENT 3

AND NER

tall Ship

PROVIDENCE

ALEXANDRIA, VA

PROJECT NARRATIVE:

UTILITY INFRASTRUCTURE:

THE UTILITY INFRASTRUCTURE CONSISTS OF THE INSTALLATION OF LAND-BASED UTILITY SERVICES THAT WILL CONNECT FROM THE FLOATING JOHN WARNER MARITIME HERITAGE CENTER ON THE POTOMAC RIVER TO EXISTING PUBLIC AND PRIVATE UTILITIES SERVICES. THE SCOPE OF THE UTILITY INFRASTRUCTURE ALSO INCLUDES THE ACCOMPANYING UTILITY EQUIPMENT, BULKHEAD MODIFICATIONS TO SUPPORT UTILITY ROUTING, AND REPAIR OF CITY INFRASTRUCTURE ARE REQUIRED FOR UTILITY INSTALLATION.

- INSTALLATION OF A 3-INCH OUTSIDE DIAMETER (OD) HDPE SANITARY SEWER FORCE MAIN PIPE FROM GANGWAY LANDING STRUCTURE (PERMIT NO. BLDG 2021-00332) ALONG THE BULKHEAD FACE AND WITHIN THE PRINCE STREET RIGHT-OF-WAY.
- INSTALLATION OF A PRIVATE MANHOLE WITHIN THE PRINCE STREET RIGHT-OF-WAY TO RECEIVE SANITARY SEWER FLOWS FROM JOHN WARNER MARITIME HERITAGE CENTER AND CONVEY THOSE FLOWS VIA A 8-INCH O.D. HDPE PIPE TO EXISTING MANHOLE ON THE SOUTHEAST CORNER OF THE INTERSECTION OF PRINCE STREET AND STRAND STREET.
- INSTALLATION OF 2-INCH OD HDPE POTABLE WATER PIPE FROM THE GANGWAY LANDING STRUCTURE (PERMIT NO. BLDG 2021-00332) ALONG THE BULKHEAD FACE TO A GATE VALVE IN ACCORDANCE WITH VIRGINIA AMERICAN WATER DESIGN REQUIREMENTS.
- 4. INSTALLATION OF BACKFLOW PREVENTER AND WATER METER IN ACCORDANCE WITH VIRGINIA AMERICAN WATER DESIGN REQUIREMENTS.
- INSTALLATION OF A BRANCH WATER LINE (8-INCH OD DUCTILE IRON PIPE) AND GATE VALVE TO CONVEY WATER SERVICE FROM NEW GATE VALVE TO EXISTING 12-INCH OD DUCTILE IRON POTABLE WATER SUPPLY LINE AT NORTHWEST CORNER OF INTERSECTION OF PRINCE ST WITH STRAND ST.
- INSTALLATION OF FIRE DEPARTMENT CONNECTION (FDC), AT END OF PRINCE ST RIGHT OF WAY, AND 4-INCH DUCTILE IRON PIPE FROM THE GANGWAY LAND STRUCTURE ALONG FACE OF THE BULKHEAD TO FDC.
- INSTALLATION OF NEW FIRE HYDRANT WITH 6-INCH DUCTILE IRON PIPE CONNECTION.
- INSTALLATION OF NEMA 6P ELECTRICAL ENCLOSURE HOUSING ELECTRICAL SERVICE EQUIPMENT.
- INSTALLATION OF ELECTRICAL CONDUIT TO CONNECT TO EXISTING DOMINION POWER TRANSFORMER AND POWER SUPPLY.
- 10. COORDINATION WITH DOMINION POWER AND VIRGINIA AMERICAN WATER

MARINE INFRASTRUCTURE:

THE MARINE INFRASTRUCTURE CONSISTS OF THE FOLLOWING:

- 1. TIMBER LANDING PIER BUILT WITH COMPOSITE DECKING AND 12"Ø TIMBER PILES
- 2. INSTALLATION OF A 6-FT WIDE BY 67-FT LONG ARTICULATING ALUMINUM GANGWAY WITH CONNECTION HARDWARE WITH BARGE.
- 3. INSTALLATION OF FIVE 24"Ø x 5/8 WT STEEL PIPE PILES WITH EPOXY COATING AND ASSOCIATED GUIDE FRAMED TO ANCHOR BARGE
- INSTALLATION OF VESSEL FENDER SYSTEM AND MOORING HARDWARE
- INSTALLATION OF UTILITY SERVICES (ELECTRIC, POTABLE WATER, FIRE WATER, SANITARY SEWAGE AND COMMUNICATION) ON BARGE AND GANGWAY TO CONNECT TO LANDSIDE SERVICE CONNECTION

GENERAL NOTES:

- GENERAL NOTES ARE NOT INTENDED TO REPLACE THE CONTRACT DOCUMENTS. SEE CONTRACT DOCUMENTS FOR REQUIREMENTS IN ADDITION TO THESE GENERAL NOTES. THE CONTRACT DOCUMENTS SHALL CONSIST OF THE COMPLETE PROJECT SPECIFICATIONS AND WORKING DRAWINGS INCLUDING BUT NOT LIMITED TO GENERAL PROVISIONS, SPECIAL PROVISIONS, DIVISION 1 REQUIREMENTS, TECHNICAL SPECIFICATIONS, AND ANY RELEVANT ADDENDA ITEMS. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- 2. THE WORKING DRAWINGS ARE NOT NECESSARILY COMPLETE IN EVERY DETAIL. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIAL, SERVICES, LABOR, ETC FOR A COMPLETE INSTALLATION INCLUDING WORK REASONABLY INFERRED FROM THE CONTRACT DOCUMENTS AS BEING NECESSARY TO PRODUCE THE INTENDED RESULTS. WHETHER SHOWN OR NOT ON THE DRAWINGS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE STARTING WORK. DO NOT SCALE PROJECT DRAWINGS. REPORT ANY DISCREPANCIES IN THE DRAWINGS AND/OR SPECIFICATIONS TO THE ENGINEER FOR CLARIFICATIONS OR ADJUSTMENTS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL NOT BEGIN DEMOLITION/CONSTRUCTION IN ANY SUCH AFFECTED AREA UNTIL THE DISCREPANCY HAS BEEN RESOLVED.
- 4. SHOULD THERE BE A CONFLICT BETWEEN THESE GENERAL NOTES, WORKING DRAWINGS, AND/OR SPECIFICATIONS, THE MOST RESTRICTIVE INTERPRETATION SHALL PREVAIL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING FROM THE ENGINEER ANY CLARIFICATION OR INTERPRETATION OF THE GENERAL NOTES, WORKING DRAWINGS, AND/OR SPECIFICATIONS IN WRITING AND IN ADVANCE OF THE BEGINNING OF DEMOLITION/CONSTRUCTION. NUMERICAL DIMENSIONS AND ELEVATIONS SHOWN SHALL SUPERCEDE ANY DISCREPANCY IN THE SCALING ON THE DRAWINGS
- 5. ALL FEDERAL, STATE, AND LOCAL SAFETY REGULATIONS ARE TO BE STRICTLY FOLLOWED. METHODS OF DEMOLITION/CONSTRUCTION AND INSTALLATION OF MATERIAL IS THE CONTRACTOR'S RESPONSIBILITY.
- THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL PROTECTION STANDARDS, LAWS, AND REGULATIONS.
- THE CONTRACTOR SHALL KEEP ACCURATE RECORDS OF ANY CHANGES MADE TO THE DRAWINGS ON A SEPARATE WHITE SET OF PLANS PROVIDED BY THE ENGINEER. THESE ANNOTATED DRAWINGS SHALL BE RETURNED TO THE ENGINEER PRIOR TO APPROVAL OF THE FINAL PAYMENT APPLICATION.
- 8. EXISTING CONSTRUCTION, INCLUDING UTILITIES AND OTHER MISCELLANEOUS ITEMS WHICH ARE TO

REMAIN, SHALL REMAIN UNDISTURBED AND BE PROTECTED, UNLESS NOTED OTHERWISE.

- THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING, AT HIS OWN EXPENSE, ANY AND ALL DAMAGES THAT MAY OCCUR OUTSIDE AND WITHIN THE LIMITS OF THIS PROJECT AS A RESULT OF DEMOLITION/CONSTRUCTION.
- 10. ALL AREAS DISTURBED DURING DEMOLITION/CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION, AT NO EXPENSE TO THE OWNER, UNLESS OTHERWISE NOTED.
- 11. THE CONTRACTOR SHALL PROTECT ADJACENT STRUCTURES, UTILITIES, PEDESTRIANS, VEHICULAR, AND MARINE TRAFFIC FROM POTENTIAL DAMAGE DUE TO CONTRACTOR'S OPERATIONS
- 12. THE CITY OF ALEXANDRIA WILL HAVE INPUT TO DESIGNATE AND/OR LIMIT AREAS OF CONSTRUCTION, STAGING, ACCESS, AND STORAGE
- 13. WHERE PEDESTRIAN AND DRIVER SAFETY IS ENDANGERED IN THE AREA OF DEMOLITION/ CONSTRUCTION WORK, USE TRAFFIC BARRICADES ("JERSEY" TYPE BARRIERS) WITH FLASHING LIGHTS. BARRICADES SHALL BE POSITIONED A MINIMUM OF 5 FEET FROM THE EDGE OF ANY OPENINGS IN THE STRUCTURE RESULTING FROM DEMOLITION/CONSTRUCTION ACTIVITIES.
- 14. PILES THAT BECOME DAMAGED OR FOR OTHER REASONS DO NOT BECOME A PERMANENT PART OF THE STRUCTURE SHALL BE EXTRACTED.
- 15. THE OWNER MAKES NO REPRESENTATIONS ABOUT SUBSURFACE CONDITIONS THAT MAY BE **ENCOUNTERED WITHIN THE LIMITS OF THE PROJECT**

EXISTING CONDITIONS SURVEY NOTES:

- HORIZONTAL DATUM: NORTH AMERICAN HORIZONTAL DATUM OF 1983 VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988
- 2. TIDAL DATUM RELATIONSHIP:

MEAN HIGHER HIGH WATER (HIGH TIDE LINE) (MHHW)	1.65 FEET
MEAN HIGH WATER (MHW)	1.43 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)	
MEAN LOW WATER (MLW)	1.16 FEET
MEAN LOWER LOW WATER (MLLW)	

- THE BATHYMETRIC INFORMATION DEPICTED REPRESENTS THE SURVEY MADE BY GAHAGAN & BRYANT ASSOCIATES, INC. ON APRIL 13, 2016 AND CAN ONLY INDICATE THE GENERAL CONDITIONS EXISTING ON SAID DATE.
- THE TOPOGRAPHIC INFORMATION DEPICTED REPRESENTS THE SURVEY MADE BY STANTEC ON MAY 25, 2016 AND CAN ONLY INDICATE THE GENERAL CONDITIONS EXISTING ON SAID DATE.
- THE ACCURACY OF EXISTING UTILITIES, BULKHEADS, AND OTHER STRUCTURES SHOWN ON THE PLANS ARE NOT GUARANTEED. ACTUAL FIELD CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OF MATERIALS, ORDERING MATERIALS, OR PERFORMING WORK

CITY STANDARD NOTES:

- 1. THE SUBJECT PROPERTY IS LOCATED ON THE CITY OF ALEXANDRIA PRINCE STREET RIGHT-OF-WAY AND WATERFRONT PARK.
- 2. OWNER: CITY OF ALEXANDRIA **301 KING STREET** ALEXANDRIA, VA 22314
- TOTAL DISTURBED AREA IS 4,820 SQUARE FEET OR 0.111 ACRES FOR THIS PROJECT
- 4. THE SITE IS LOCATED IN THE POTOMAC RIVER WATERSHED.
- 5. THE PROJECT LIES PARTIALLY WITHIN A CITY OF ALEXANDRIA RESOURCE PROTECTION AREA
- 6. CONSTRUCTION PERMITS ARE NOT REQUIRED FOR THIS PROJECT
- ALL NEW CONSTRUCTION WILL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF ALEXANDRIA AND/OR THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) STANDARDS AND SPECIFICATIONS.
- ALL EROSION AND SEDIMENTATION CONTROL SHALL, IF REQUIRED, BE PLACED AND MAINTAINED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CITY OF ALEXANDRIA AND/OR VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH).
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO THE ADJACENT CURB, GUTTER, AND RIGHT-OF-WAY, IF DAMAGED DURING CONSTRUCTION ACTIVITY AS DETERMINED BY THE DIRECTOR, TRANSPORTATION AND ENVIRONMENTAL SERVICES (T&ES).
- 10. ALL WATER FACILITY CONSTRUCTION SHALL CONFORM TO VIRGINIA AMERICAN WATER COMPANY STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL CONTACT VIRGINIA AMERICAN WATER COMPANY AT (703) 549-7080 TO COORDINATE CONSTRUCTION AND INSPECTION OF WATER FACILITIES.
- 11. CONTRACTOR SHALL ENSURE THAT THERE IS NO DISTURBANCE ON ADJACENT PROPERTIES.
- 12. THE CONTRACTOR SHALL VISIT THE SITE AND SHALL VERIFY EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION.
- 13. PERMITS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO ANY WORK WITHIN THE RIGHT OF WAY.
- 14. APPLICANT SHALL BE RESPONSIBLE FOR ANY DAMAGE TO CITY UTILITIES AND INFRASTRUCTURE AND SHALL REPAIR.
- 15. APPLICANT SHALL BE RESPONSIBLE FOR ANY DAMAGE TO CITY'S IRRIGATION AND ELECTRICAL SYSTEM IN WATERFRONT PARK AND SHALL REPAIR.

IND	EX NO.	SHEET NO.	SHEET TITLE
	1	G-001	COVER SHEET
	2	G-002	GENERAL NOTES & ABBREVIATIONS 1 OF 2
	3	G-003	GENERAL NOTES & ABBREVIATIONS 2 OF 2
	4	V-101	CONTEXT PLAN
	5	V-102	EXISTING CONDITIONS PLAN
	6	EC001	EROSION AND SEDIMENT CONTROL NOTES
	7	EC002	EROSION AND SEDIMENT CONTROL DETAILS
	8	EC101	EROSION AND SEDIMENT CONTROL PLAN
	9	CD101	CIVIL DEMOLITION PLAN
	10	CD501	DEMOLITION DETAILS
	11	C-101	CIVIL SITE PLAN
	12	C-102	GRADING PLAN
	13	C-301	SANITARY SEWER PROFILE
	14	C-501	CIVIL DETAILS 1 OF 4
	15	C-502	CIVIL DETAILS 2 OF 4
	16	C-503	CIVIL DETAILS 3 OF 4
	17	C-504	CIVIL DETAILS 4 OF 4
*	18	S-001	STRUCTURAL NOTES
*	19	S-101	SITE PLAN
*	20	S-201	ELEVATION
*	21	S-301	TYPICAL SECTIONS
*	22	S-401	TIMBER PIER FRAMING PLAN AND DECK PLAN
*	23	S-501	TIMBER PIER DETAILS
*	24	S-502	GANGWAY DETAILS
*	25	S-503	FLOAT GUIDE DETAILS 1 OF 2
*	26	S-504	FLOAT GUIDE DETAILS 2 OF 2
*	27	S-505	TIMBER FENDER DETAILS
	28	S-506	BULKHEAD DETAILS
*	29	S-507	MISCELLANEOUS DETAILS
	30	E-001	ELECTRICAL NOTES 1 OF 2
	31	E-002	ELECTRICAL NOTES 2 OF 2
	32	E-101	OVERALL ELECTRICAL SITE PLAN
	33	E-102	ENLARGED ELECTRICAL PLAN
	34	E-501	ELECTRICAL DETAILS 1 OF 3
	35	E-502	ELECTRICAL DETAILS 2 OF 3
	36	E-503	ELECTRICAL DETAILS 3 OF 3
	37	E-601	ELECTRICAL SINGLE LINE DIAGRAM AND SCHEDULES
*	38	M-001	MECHANICAL NOTES, LEGEND, & ABBREVIATIONS
*	39	M-101	MECHANICAL SITE PLAN
*	40	M-301	MECHANICAL SECTIONS
*	41	M-501	MECHANICAL DETAILS

INDEX OF DRAWINGS

* DENOTES SHEET NOT INCLUDED IN PERMIT SET. THESE SHEETS WERE APPROVED UNDER BUILDING PERMIT BLDG 2021-00332.

Dig With OOO

KNOW WHAT'S BELOW. CALL BEFORE YOU DIG.

DIAL 811 IN VIRGINIA OR

1-800-552-7001

ISSUED FOR PERMIT MARK ANTHONY PIRRELLO ISSUED: 2022-10-20 Lic. No.030083 NOT TO BE USED FOR CONSTRUCTION PLAN NUMBER: SEAL APPROVED DATE: Sheet Reference No. G-002 DEPARTMENT OF TRANSPORTATION

INDEX: 2 OF 41

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

& ENVIRONMENTAL SERVICES.

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ALEXANDRIA, VA

STORMWATER MANAGEMENT NARRATIVE:

NO STORMWATER BEST MANAGEMENT PRACTICES (BMP) ARE REQUIRED FOR THIS PROJECT.

ENVIRONMENTAL ASSESSMENT:

- THIS SITE IS LOCATED IN THE REGULATORY FLOODPLAIN. NO FLOOPLAIN REGULATIONS APPLY TO THIS PROJECT.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL PERMIT CONDITIONS AND REPORTING REQUIREMENTS.
- ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH THE ALEXANDRIA NOISE CONTROL CODE TITLE 11, CHAPTER 5 WHICH PERMITS CONSTRUCTION ACTIVITIES TO OCCUR BETWEEN THE FOLLOWING HOURS:
 - A. MONDAY THROUGH FRIDAY FROM 7 AM TO 6 PM AND SATURDAYS FROM 9 AM TO 6 PM. B. NO CONSTRUCTION ACTIVITIES ARE PERMITTED ON SUNDAY.

DEMOLITION:

- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO STRICTLY CONTAIN THE DEMOLITION WITHIN THE LIMITS OF THE REQUIRED CONSTRUCTION AND AVOID ANY DAMAGE TO THE EXISTING BULKHEAD AND CITY INFRASTRUCTURE WITHIN PRINCE STREET RIGHT OF WAY. PLAN SHALL INCLUDED DETAILED MEANS AND METHOD OF DEMOLITION WORK.
- 2. ANY DAMAGE INCURRED IN EXECUTION OF THIS CONTRACT TO ANY PART OF THE PROPERTY/STRUCTURE NOT SPECIFICALLY DESIGNATED FOR DEMOLITION SHALL BE REPAIRED, REPLACED, AND/OR RECONSTRUCTED BY THE CONTRACTOR TO ITS ORIGINAL CONDITION AS DIRECTED BY THE CITY AT THE EXPENSE OF THE CONTRACTOR.
- 3. ALL DEMOLISHED MATERIAL, EXCEPT AS NOTED OTHERWISE, BECOMES THE PROPERTY OF, AND SHALL BE COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR. THE REMOVAL, HANDLING, AND DISPOSAL OF ALL DEMOLITION MATERIALS SHALL BE IN STRICT ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- 4. ALL REMOVAL AND/OR RELOCATION OF EXISTING UTILITIES SHALL BE COORDINATED WITH THE CITY PRIOR TO PROCEEDING WITH THE CONSTRUCTION.
- 5. ALL SURVEY MONUMENTS WITHIN LIMITS OF CONSTRUCTION ARE TO BE PROTECTED.
- TREATED TIMBER SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS
- NO DEMOLITION CAN BEGIN UNTIL ALL EROSION AND SEDIMENT CONTROLS ARE IN PLACE, AND ARE APPROVED BY AN EROSION AND SEDIMENT CONTROL INSPECTOR OF THE DEPARTMENT OF PROJECT IMPLEMENTATION.
- ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE MOST CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS, INCLUDING BUT NOT LIMITED, TO ENVIRONMENTAL PROTECTION AGENCY (EPA), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), VIRGINIA OCCUPATIONAL AND SAFETY HEALTH COMPLIANCE PROGRAM (VOSH ENFORCEMENT), VIRGINIA OVERHEAD HIGH VOLTAGE LINE SAFETY ACT, NATIONAL EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAPS), AND NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH (NIOSH).
- PRIOR TO COMMENCING NEW WORK, THE CONTRACTOR SHALL PROTECT FROM DAMAGE ALL EXISTING ADJACENT AREAS. ALL ADJACENT AREAS DAMAGED DURING DEMOLITION AND/OR CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE CITY OF ALEXANDRIA.
- 10. THE CONTRACTOR SHALL PROTECT AND PREVENT DAMAGE TO EXISTING ON-SITE UTILITY DISTRIBUTION FACILITIES. ACTIVE UTILITY DISTRIBUTION FACILITIES ENCOUNTERED DURING DEMOLITION AND/OR CONSTRUCTION ACTIVITIES SHALL BE SHUT OFF AT THE SERVICE MAIN WITH THE APPROVAL OF THE CITY.
- DURING DEMOLITION AND/OR CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CITY UPON ENCOUNTERING ANY EXISTING UTILITIES AND/OR UTILITY SYSTEM STRUCTURES NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL DOCUMENT SAME TO THE CITY AND OBTAIN DIRECTION AS TO THE APPROPRIATE ACTION(S) TO BE TAKEN.

CONSTRUCTION NOTES:

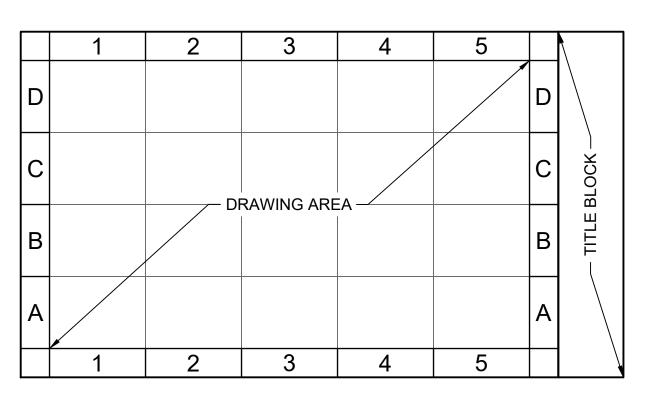
- SITE VERIFICATION: PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL VERIFY THE SITE CONDITIONS AND NOTIFY THE CITY IN WRITING OF ANY DISCREPANCIES IN DIMENSIONS OR SITE CONDITIONS. THE CONTRACTOR SHALL NOT BEGIN CONSTRUCTION IN ANY SUCH AFFECTED AREA UNTIL THE DISCREPANCY HAS BEEN RESOLVED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER
- CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID FOR THE PROJECT
- 3. ALL SAFETY REGULATIONS ARE TO BE STRICTLY FOLLOWED. METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIAL ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF EXISTING STRUCTURES AND NEW WORK AND SHALL PROVIDE ALL SHORING AND TEMPORARY FALSE WORK AS NECESSARY TO PREVENT DAMAGE TO EXISTING AND NEW WORK.
- THE CONTRACTOR SHALL PLACE CONSTRUCTION DEBRIS CONTROL DEVICES, BOOMS, TARPAULINS, FLOATS, STAGING, AND OTHER DEVICES AS NECESSARY TO PREVENT CONSTRUCTION DEBRIS FROM ENTERING THE WATER AND AIR BORNE MATERIALS FROM LEAVING THE IMMEDIATE VICINITY OF THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP OF ANY MATERIALS DEPOSITED OUTSIDE THE WORK AREA OR IN THE WATER. SEE PERMIT CONDITIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR BRINGING ALL ELEMENTS OF THE PROJECT IN CONFORMANCE WITH THESE PLANS AND SPECIFICATIONS. IF ANY MODIFICATIONS ARE REQUIRED IN ANY ELEMENT, THE CONTRACTOR SHALL SUBMIT PROPOSED CHANGES TO THE OWNER FOR APPROVAL
- 7. THE CONTRACTOR SHALL REMOVE ALL BARGES, WORK BOATS, STAGING AND ANY OTHER TEMPORARY PLATFORMS AND/OR AREAS AT THE COMPLETION OF WORK.
- 8. THE ACCURACY OF EXISTING UTILITIES, BULKHEADS, AND OTHER STRUCTURES SHOWN ON PLANS ARE NOT GUARANTEED. ACTUAL FIELD CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OF MATERIALS, ORDERING MATERIALS, OR PERFORMING WORK.
- 9. ALL TEMPORARY UTILITIES NECESSARY FOR CONSTRUCTION SHALL BE PROVIDED AT THE EXPENSE OF THE CONTRACTOR.
- 10. THE CONTRACTOR SHALL CONSIDER AND PLAN FOR, ON A DAILY BASIS, THE EFFECT OF TIDAL FLUCTUATION IN THE EXECUTION OF THE WORK.
- 11. ALL CONSTRUCTION METHODS AND MATERIAL SHALL CONFORM TO THESE DRAWINGS, PROJECT SPECIFICATIONS, AND ALL CURRENT APPLICABLE CODES AND THE LATEST REVISIONS OF THE FOLLOWING REFERENCE DOCUMENTS.
 - A. VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE SPECIFICATIONS.
 - B. VIRGINIA WORK AREA PROTECTION MANUAL.
 - C. VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH).
 - D. CITY OF ALEXANDRIA DESIGN AND CONSTRUCTION STANDARDS.
- 13. CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY AND DRAWINGS OF COMPLETED WORK TO THE CITY.

ARCHAEOLOGY NOTES:

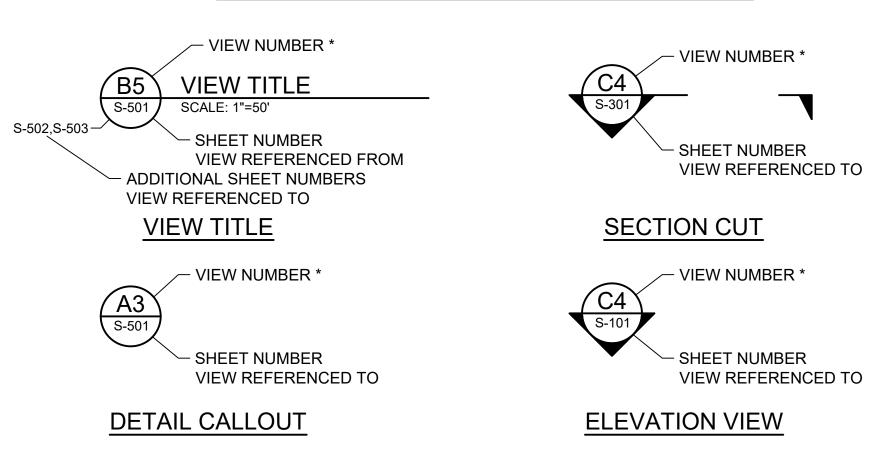
- CALL CITY OF ALEXANDRIA ARCHAEOLOGY DEPARTMENT (703-838-4399) IMMEDIATELY IF ANY STONE OR POTTERY, INDIAN ARTIFACTS OR HISTORICAL STRUCTURAL REMAINS, WALL FOUNDATIONS, PRIVIES, CISTERNS, ICE WELLS, ETC OR CONCENTRATION OF ARTIFACTS ARE FOUND DURING CONSTRUCTION WORK. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHEOLOGIST COMES TO THE SITE TO RECORD THE FINDS.
- 2. METAL DETECTION SHALL NOT BE CONDUCTED ON THE PROPERTY UNLESS AUTHORIZED BY THE CITY OF ALEXANDRIA ARCHAEOLOGY DEPARTMENT

ABBREVIATIONS

ACI	AMERICAN CONCRETE INSTITUTE	MIN	MINIMUM
ADA	AMERICANS WITH DISABILITIES ACT	MLLW	MEAN LOWER LOW WATER
ANSI	AMERICAN NATIONAL STANDARDS	MPH	MILE PER HOUR
	INSTITUTE	N	NORTH
APPROX	APPROXIMATE	NAVD	NORTH AMERICAN VERTICAL DATUM
ASME	AMERICAN SOCIETY OF MECHANICAL	NO.	NUMBER
	ENGINEERS	NTS	NOT TO SCALE
ASTM	AMERICAN SOCIETY FOR TESTING AND	PCF	POUND PER CUBIC FOOT
	MATERIALS	PSF	POUNDS PER SQUARE FOOT
AWS	AMERICAN WELDING SOCIETY	PSI	POUNDS PER SQUARE INCH
BLDG	BUILDING	REINF	REINFORCING
CF	CUBIC FEET	REQD	REQUIRED
CL	CENTERLINE	SEC	SECOND
CLR	CLEAR	SF	SQUARE FOOT or FEET
CU	CUBIC or COPPER	SQ	SQUARE
DBL	DOUBLE	SS	STAINLESS STEEL or SANITARY SEWER
DIA	DIAMETER	STL	STEEL
<u> </u>	EAST	THRU	THROUGH
ĒΑ	EACH	TYP	TYPICAL
ĒL	ELEVATION	UHMW-PE	ULTRA HIGH MOLECULAR WEIGHT
EMBED	EMBEDDMENT		POLYETHELENE
EXIST.	EXISTING	UON	UNLESS OTHERWISE NOTED
=T	FOOT or FEET	VA	VIRGINIA
GALV	GALVANIZED	W/	WITH
GR	GRADE	YR	YEAR
HSS	HOLLOW STRUCTURAL SECTIONS	&	AND
KSI	KIPS PER SQUARE INCH	<u>@</u>	AT
_B	POUND		DEGREES
MAX	MAXIMUM	Ø	DIAMETER
ИННW	MEAN HIGHER HIGH WATER		

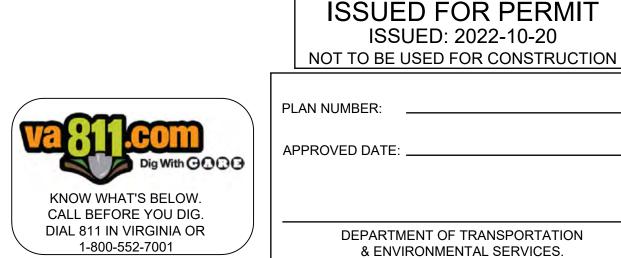


DRAWING AREA COORDINATE SYSTEM (DACS)



* VIEW NUMBER IS BASED ON THE DACS LOCATION OF THE LOWER-LEFT EXTENTS OF THE VIEW ON THE REFERENCED SHEET. WHEN REFERENCING DRAWING INFORMATION BETWEEN SHEETS, BOTH THE VIEW AND SHEET NUMBERS MUST BE QUOTED TOGETHER - EITHER IN A CALLOUT FORMAT AS SHOWN ABOVE OR IN THE FORM:

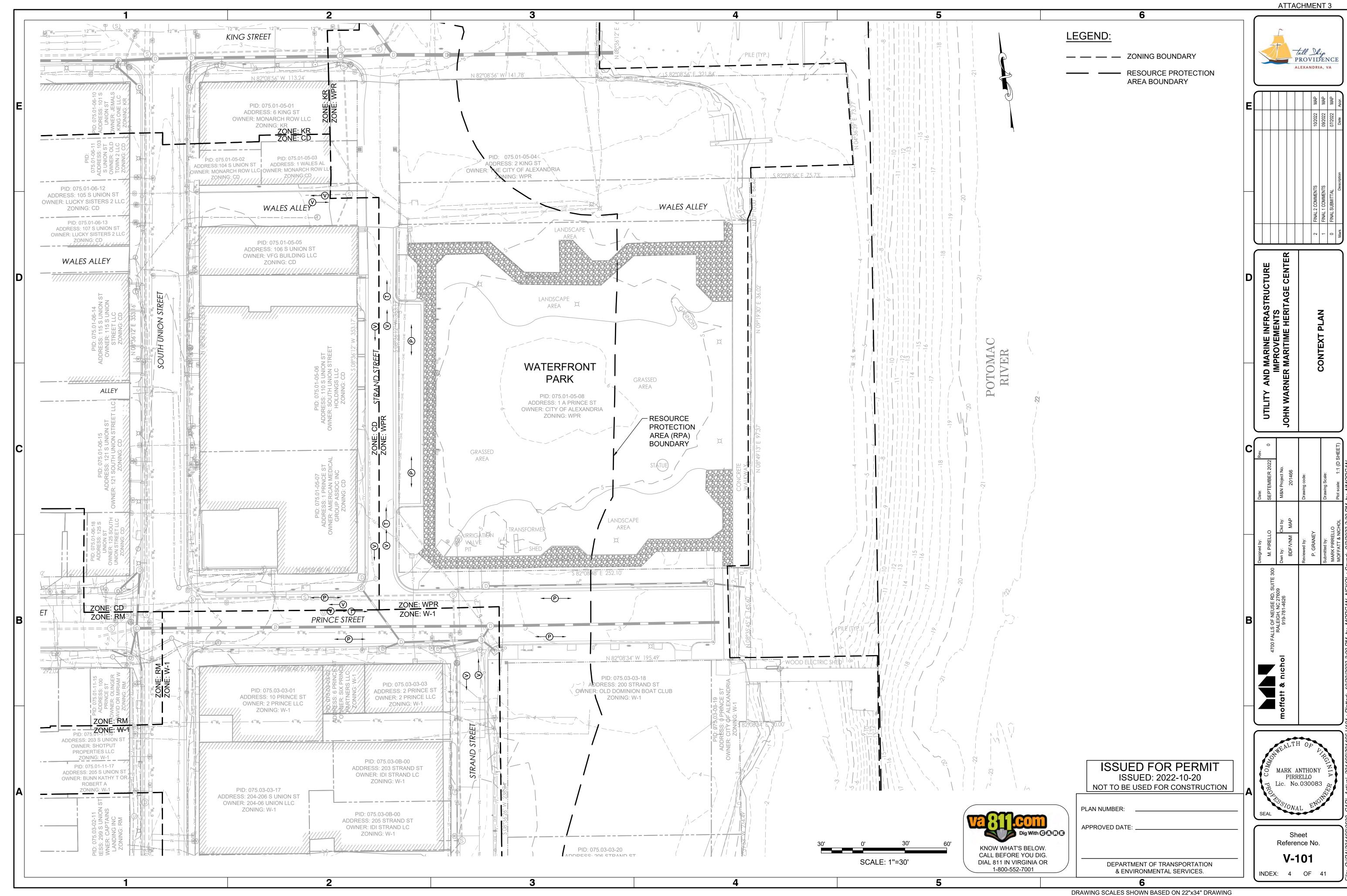
"VIEW NO./SHEET NO." (C1/MS301)



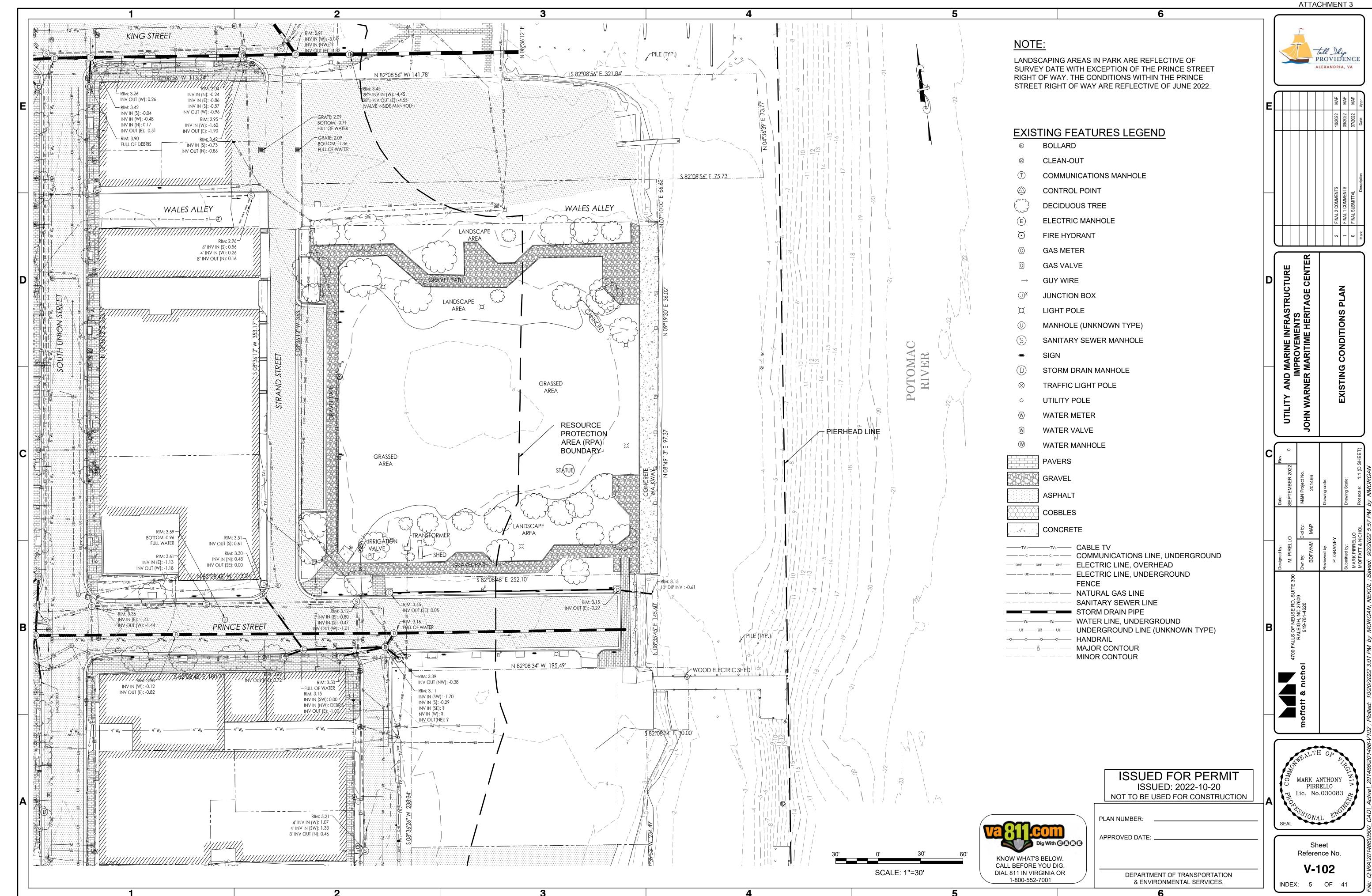
MARK ANTHONY PIRRELLO Lic. No.030083

Sheet Reference No. G-003 INDEX: 3 OF 41

10/20/2022



10/20/2022



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ALEXANDRIA, VA

PROVIDENCE

 $\overline{\mathbf{c}}$

AND IN

CRITICAL AREAS: N/A

- 2. EROSION CONTROL PROGRAM: N/A
- SEDIMENT CONTROL STRATEGIES:
 - A. LIMITS OF DISTURBED AREAS MUST BE CLEARLY MARKED OR FLAGGED
 - B. ANY CLEARING SHOULD BE DONE WHEN PERIMETER CONTROLS ARE IN PLACE.
 - C. INSTALL FLOATING TURBIDITY BARRIERS AROUND WORK AREA AND BARGES AS APPLICABLE.
 - D. INSTALL SILT FENCE WHERE APPLICABLE WITHIN THE DESIGNATED CONSTRUCTION ACCESS CORRIDOR ALONG THE EXISTING GRAVEL PATHS AT THE SOUTH END OF FOUNDERS PARK.
 - E. ESTABLISH TREE PROTECTION ZONES ADJACENT TO CONSTRUCTION ACCESS CORRIDOR.
 - F. ALL VEHICLES WILL BE CLEANED BEFORE ENTERING ONTO THE PUBLIC RIGHT-OF-WAY.
- EQUIPMENT AND MATERIALS SHOULD NOT BE STORED IN THE RPA AFTER WORK HOURS. POTENTIAL POLLUTANT SOURCES MUST INCLUDE MITIGATION MEASURES SUCH AS SECONDARY CONTAINMENT.

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

- AN EROSION AND SEDIMENT CONTROL PLAN MUST BE APPROVED BY THE DIRECTOR OF TRANSPORTATION AND ENVIRONMENTAL SERVICES PRIOR TO ANY LAND DISTURBING ACTIVITY **GREATER THAN 2,500 SQUARE FEET**
- 2. THE CONTRACTORS ARE TO KEEP DENUDED AREAS TO A MINIMUM. AN EROSION AND SEDIMENT CONTROL PLAN IS INCLUDED WITH THESE FINAL PLANS FOR APPROVAL BY T&ES FOR REFERENCE BY THE EROSION AND SEDIMENT CONTROL PERMIT. ALL EROSION / SEDIMENT CONTROL MEASURES WILL CONFORM TO THE CURRENT STANDARDS OF THE CITY OF ALEXANDRIA AND THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH).
- UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH) AND VIRGINIA REGULATIONS §4VAC50-30 EROSION AND SEDIMENT CONTROL REGULATIONS.
- T&ES MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENTS OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION. CERTIFIED RESPONSIBLE LAND DISTURBER (CRLD) IS REQUIRED TO ATTEND PRE-CONSTRUCTION MEETING.
- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING OR IN-WATER CONSTRUCTION. AN INSPECTION BY THE CITY OF ALEXANDRIA IS REQUIRED AFTER INITIAL INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND BEFORE ANY CLEARING OR IN-WATER WORK CAN BEGIN.
- ALL DISTURBED AREAS OF THE SITE NOT TO BE WORKED FOR SEVEN OR MORE CALENDAR DAYS MUST BE STABILIZED.
- THE CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL MEASURES DAILY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT AND DURING IN-WATER CONSTRUCTION ACTIVITIES. ANY NECESSARY REPAIRS, ADJUSTMENTS, OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION AND SEDIMENT CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ANY ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY TO PREVENT EROSION AND SEDIMENTATION AND AS DETERMINED BY THE CITY OF ALEXANDRIA.

POLLUTION PREVENTION PLAN:

- THE CONTRACTOR SHALL ENSURE THE POLLUTION PREVENTION MEASURES ARE DESIGNED. INSTALLED. IMPLEMENTED. AND MAINTAINED.
 - A. PROHIBIT THE DISCHARGE OF WASTEWATER AND WASH WATER, WASHOUT, AND CLEANOUT OF STUCCO, FORM RELEASE OILS, CURING COMPOUNDS, OR OTHER CONSTRUCTION MATERIALS.
 - B. PROHIBIT DISCHARGE OF FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT **OPERATION AND MAINTENANCE**
 - C. PROHIBIT DISCHARGE OF SOAPS OR SOLVENT USED IN VEHICLE AND EQUIPMENT WASHING
 - D. MINIMIZE EXPOSURE OF CONSTRUCTION AND LANDSCAPE MATERIALS AND WASTES, TRASH, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIALS ONSITE FROM PRECIPITATION.
 - E. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM SPILLS AND LEAKS AND IMPLEMENT CHEMICAL SPILL AND LEAK PREVENTION AND RESPONSE PROCEDURES.

NOTES FOR PRESERVATION AND PROTECTION OF EXISTING VEGETATION:

- 1. VEGETATION TO BE REMOVED SHALL BE APPROVED BY CITY ARBORIST.
- 2. PROVIDE, IMPLEMENT, AND FOLLOW A TREE CONSERVATION AND PROTECTION PROGRAM THAT IS DEVELOPED TO THE SATISFACTION OF THE CITY ARBORIST.
- PROTECTION PROGRAM SHALL BE AUTHORIZED BY AN ARBORIST CERTIFIED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE
- 4. LOCATION AND METHOD FOR PROTECTION AND PRESERVATION OF EXISTING TREES SHALL BE APPROVED IN-FIELD BY THE CITY ARBORISTS PRIOR TO COMMENCEMENT OF GROUND DISTURBING ACTIVITIES.
- 5. PROVIDE PROTECTION OF EXISTING VEGETATION IN COMPLIANCE WITH LANDSCAPE GUIDELINES OF THE CITY OF ALEXANDRIA.
- CONTRACTOR MUST PROVIDE DOCUMENTATION OF COMMUNICATION WITH THE ADJACENT PROPERTY OWNER(S) VERIFYING NOTIFICATION OF CONSTRUCTION IMPACT, POTENTIAL FOR LOSS, AND AGREED UPON REMEDIAL MEASURES PERTAINING TO THE EXISTING TREES(S) ON ADJACENT PROPERTIES THAT WILL BE EFFECTED BY PROJECT WORK.
- 7. PROVIDE SPECIFIC STAGING INFORMATION THAT INDICATES THE METHODS. AND PROCEDURES TO BE IMPLEMENTED FOR PROTECTION OF EXISTING ON-SITE AND OFF-SITE VEGETATION.
- TREE PROTECTION SHALL BE PROVIDED WHERE SILT FENCE IS NOT ADEQUATE. PROTECTION SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO THE DRIP LINE OF THE TREES TO BE SAVED. THE CONTRACTOR WILL CONSULT THE SITE INSPECTOR BEFORE THE CONSTRUCTION STARTS. TREE PROTECTION FENCING MUST BE ESTABLISHED AND APPROVED BY THE CITY ARBORIST BEFORE ANY CLEARING AND CONSTRUCTION CAN BE STARTED. TO THE EXTENT POSSIBLE, ALL TREE PROTECTION SHALL BE INSTALLED AT THE DRIP LINE OF THE TREE(S).

SEQUENCE OF CONSTRUCTION:

- 1. INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS AND STABILIZED CONSTRUCTION ENTRANCE AS SHOWN ON THIS PLAN.
- 2. CONDUCT DEMOLITION AND CONSTRUCTION ACTIVITIES ACCORDING TO THE APPLICABLE PLANS.
- INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL PRACTICES AS NECESSARY AND AS DIRECTED BY THE EROSION AND SEDIMENT CONTROL INSPECTOR.
- 4. UPON COMPLETION OF DEMOLITION, CONSTRUCTION AND LAND DISTURBING ACTIVITIES AND WITH THE APPROVAL OF THE EROSION AND SEDIMENT CONTROL INSPECTOR; REMOVE ALL REMAINING EROSION AND SEDIMENT CONTROL PRACTICES AND PROVIDE PERMANENT STABILIZATION ACCORDING TO APPROVED METHODS.
- CONSTRUCTION DEBRIS MUST BE REMOVED TO AN APPROVED LANDFILL WITH ADEQUATE FREQUENCY IN ACCORDANCE WITH THE VIRGINIA STATE LITTER CONTROL ACT.

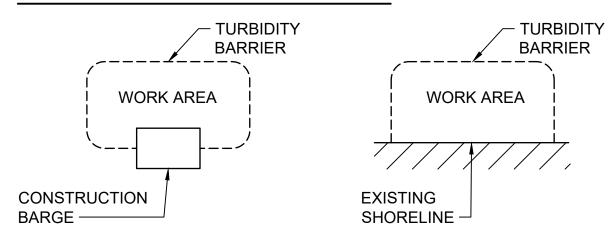
TURBIDITY CURTAIN MATERIALS:

- 1. TURBIDITY CURTAIN BARRIERS SHALL BE ORANGE IN COLOR IN ORDER TO ATTRACT THE ATTENTION OF **NEARBY BOATERS.**
- 2. SEAMS IN THE TURBIDITY CURTAIN FABRIC SHALL BE EITHER VULCANIZED WELDED OR SEWN, AND SHALL DEVELOP THE FULL STRENGTH OF THE FABRIC.
- 3. FLOATATION DEVICES SHALL BE FLEXIBLE, BUOYANT UNITS CONTAINED IN AN INDIVIDUAL FLOTATION SLEEVE OR COLLAR ATTACHED TO THE CURTAIN. BUOYANCY PROVIDED BY THE FLOATATION UNITS SHALL BE SUFFICIENT TO SUPPORT THE WEIGHT OF THE CURRENT AND MAINTAIN A FREEBOARD OF AT LEAST 3 INCHES ABOVE THE WATER SURFACE LEVEL.
- 4. LOAD LINES MUST BE FABRICATED INTO THE TOP AND BOTTOM OF ALL FLOATING TURBIDITY CURTAINS. THE TOP LOAD LINE SHALL CONSIST OF WOVEN WEBBING OR VINYL-SHEATHED STEEL CABLE AND SHALL HAVE A BREAK STRENGTH IN EXCESS OF 10.000 POUNDS. THE SUPPLEMENTAL (BOTTOM) LOAD LINE SHALL CONSIST OF A CHAIN INCORPORATED INTO THE BOTTOM HEM OF THE CURTAIN OF SUFFICIENT WEIGHT TO SERVE AS BALLAST TO HOLD THE CURTAIN IN A VERTICAL POSITION. ADDITIONAL ANCHORAGE SHALL BE PROVIDED AS NECESSARY. THE LOAD LINES SHALL HAVE SUITABLE CONNECTING DEVICES WHICH DEVELOP THE FULL BREAKING STRENGTH FOR CONNECTING TO LOAD LINES IN ADJACENT SECTIONS.
- 5. BOTTOM ANCHORS ARE REQUIRED. BOTTOM ANCHORS MUST BE SUFFICIENT TO HOLD THE CURTAIN IN THE SAME POSITION RELATIVE TO THE BOTTOM OF THE WATERCOURSE WITHOUT INTERFERING WITH THE ACTION OF THE CURTAIN. THE ANCHOR MAY DIG INTO THE BOTTOM (GRAPPLING HOOK, PLOW, OR FLUKE TYPE) OR MAY BE WEIGHTED (MUSHROOM TYPE), AND SHOULD BE ATTACHED TO A FLOATING ANCHOR BUOY VIA AN ANCHOR LINE. THE ANCHOR LINE WOULD THEN RUN FROM THE BUOY TO THE TOP LOAD LINE OF THE CURTAIN. THESE LINES MUST CONTAIN ENOUGH SLACK TO ALLOW THE BUOY AND CURTAIN TO FLOAT FREELY WITH A WATER SURFACE ELEVATION INCREASE FROM THE MEAN LOWER LOW WATER (MLLW) ELEVATION TO THE MEAN HIGHER HIGH WATER (MHHW) ELEVATION WITHOUT PULLING THE BUOY OR CURTAIN DOWN. THESE LINES MUST BE CHECKED REGULARLY TO MAKE SURE THEY DO NOT BECOME ENTANGLED WITH DEBRIS. ANCHOR SPACING WILL VARY WITH CURRENT VELOCITY AND POTENTIAL WIND AND WAVE ACTION, THEREFORE THE MANUFACTURER'S RECOMMENDATIONS SHOULD BE FOLLOWED. SEE ORIENTATION OF EXTERNAL ANCHORS AND ANCHOR BUOYS AS SHOWN IN FIGURE 1 ON THIS DRAWING FOR INSTALLATION.

TURBIDITY CURTAIN INSTALLATION:

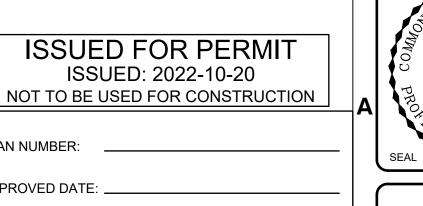
- THE CURTAIN SHOULD NEVER TOUCH THE BOTTOM. A MINIMUM 1 FOOT "GAP" SHOULD EXIST BETWEEN THE WEIGHTED LOWER END OF THE SKIRT AND THE BOTTOM AT MLLW. MOVEMENT OF THE LOWER SKIRT OVER THE BOTTOM DUE TO CURRENT OR ELEVATION FLUCTUATION ON THE FLOTATION SYSTEM MAY FAN AND STIR SEDIMENTS ALREADY SETTLED OUT.
- TURBIDITY CURTAINS SHOULD BE LOCATED PARALLEL TO THE DIRECTION OF FLOW OF A MOVING BODY OF WATER. TURBIDITY CURTAIN SHOULD NOT BE PLACED ACROSS THE MAIN FLOW OF A SIGNIFICANT BODY OF MOVING WATER.
- WHEN SIZING THE LENGTH OF A FLOATING CURTAIN, ALLOW AN ADDITIONAL 10 TO 20 PERCENT VARIANCE TO STRAIGHT LINE MEASUREMENTS. THIS WILL ALLOW FOR MEASURING ERRORS, MAKE INSTALLING EASIER AND REDUCE STRESS FROM POTENTIAL WAVE ACTION DURING HIGH WINDS.
- 4. AN ATTEMPT SHOULD BE MADE TO AVOID AN EXCESSIVE AMOUNT OF JOINTS IN THE CURTAIN. A MINIMUM CONTINUOUS SPAN OF 50 FEET BETWEEN JOINTS IS REQUIRED.
- 5. FOR STABILITY REASONS, A MAXIMUM SPAN OF 100 FEET BETWEEN JOINTS (ANCHOR OR STAKE LOCATIONS) IS REQUIRED. IF SPACINGS EXCEEDING THIS ARE ALLOWED BY THE MANUFACTURER, DATA SHALL BE SUBMITTED FOR REVIEW.
- 6. THE ENDS OF THE CURTAIN (BOTH FLOATING UPPER AND WEIGHTED LOWER) SHOULD EXTEND WELL UNDER THE EXISTING STRUCTURE TO BE REMOVED. THE ENDS SHOULD BE SECURED FIRMLY TO FULLY ENCLOSE THE AREA WHERE SEDIMENT MAY ENTER THE WATER.
- 7. TYPICAL ALIGNMENTS OF TURBIDITY CURTAINS CAN BE SEEN IN THE DIAGRAM ON THIS DRAWING. THE NUMBER AND SPACING OF EXTERNAL ANCHORS MAY VARY DEPENDING ON CURRENT VELOCITIES AND POTENTIAL WIND AND WAKE ACTION. THE MANUFACTURER'S RECOMMENDATIONS SHOULD BE FOLLOWED.
- IN RIVERS OR IN OTHER MOVING WATER, IT IS IMPORTANT TO SET ALL THE CURTAIN ANCHOR POINTS. CARE MUST BE TAKEN TO ENSURE THAT ANCHOR POINTS ARE OF SUFFICIENT HOLDING POWER TO RETAIN THE CURTAIN UNDER THE EXISTING CURRENT CONDITIONS, PRIOR TO PUTTING THE FURLED CURTAIN INTO THE WATER. AGAIN, ANCHOR BUOYS SHOULD BE EMPLOYED ON ALL ANCHORS TO PREVENT THE CURRENT FROM SUBMERGING THE FLOTATION AT THE ANCHOR POINTS.
- WHEN THE ANCHORS ARE SECURE, THE FURLED CURTAIN SHOULD BE SECURED TO THE UPSTREAM ANCHOR POINT AND THEN SEQUENTIALLY ATTACHED TO EACH NEXT DOWNSTREAM ANCHOR POINT UNTIL THE ENTIRE CURTAIN IS IN POSITION. AT THIS POINT, AND BEFORE UNFURLING, THE "LAY" OF THE CURTAIN SHOULD BE ASSESSED AND ANY NECESSARY ADJUSTMENTS MADE TO THE ANCHORS. FINALLY WHEN THE LOCATION IS ASCERTAINED TO BE AS DESIRED, THE FURLING LINES SHOULD BE CUT TO ALLOW THE SKIRT TO DROP.
- 10. ALWAYS ATTACH ANCHOR LINES TO THE FLOATATION DEVICE, NOT TO THE BOTTOM OF THE CURTAIN. THE ANCHORING LINE ATTACHED TO THE FLOATATION DEVICE ON THE DOWNSTREAM SIDE WILL PROVIDE SUPPORT FOR THE CURTAIN. ATTACHING THE ANCHORS TO THE BOTTOM OF THE CURTAIN COULD CAUSE PREMATURE FAILURE OF THE CURTAIN DUE TO THE STRESSES IMPARTED ON THE MIDDLE SECTION OF THE CURTAIN.

TURBIDITY BARRIER DIAGRAMS:



TURBIDITY CURTAIN MAINTENANCE:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE TURBIDITY CURTAIN FOR THE DURATION OF THE PROJECT IN ORDER TO ENSURE THE CONTINUOUS PROTECTION OF THE WATERWAY.
- SHOULD REPAIRS TO THE GEOTEXTILE FABRIC BECOME NECESSARY, REPAIR KITS AVAILABLE FROM THE ORIGINAL MANUFACTURER SHALL BE USED. MANUFACTURER'S INSTRUCTIONS MUST BE FOLLOWED TO ENSURE THE ADEQUACY OF THE REPAIR.
- WHEN THE CURTAIN IS NO LONGER REQUIRED, THE CURTAIN AND RELATED COMPONENTS SHALL BE REMOVED IN SUCH A MANNER AS TO MINIMIZE TURBIDITY. REMAINING SEDIMENT SHALL BE SUFFICIENTLY SETTLED BEFORE REMOVING THE CURTAIN.



APPROVED DATE

Sheet Reference No. **EC001** INDEX: 6 OF 41

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

MARK ANTHONY PIRRELLO Lic. No.030083

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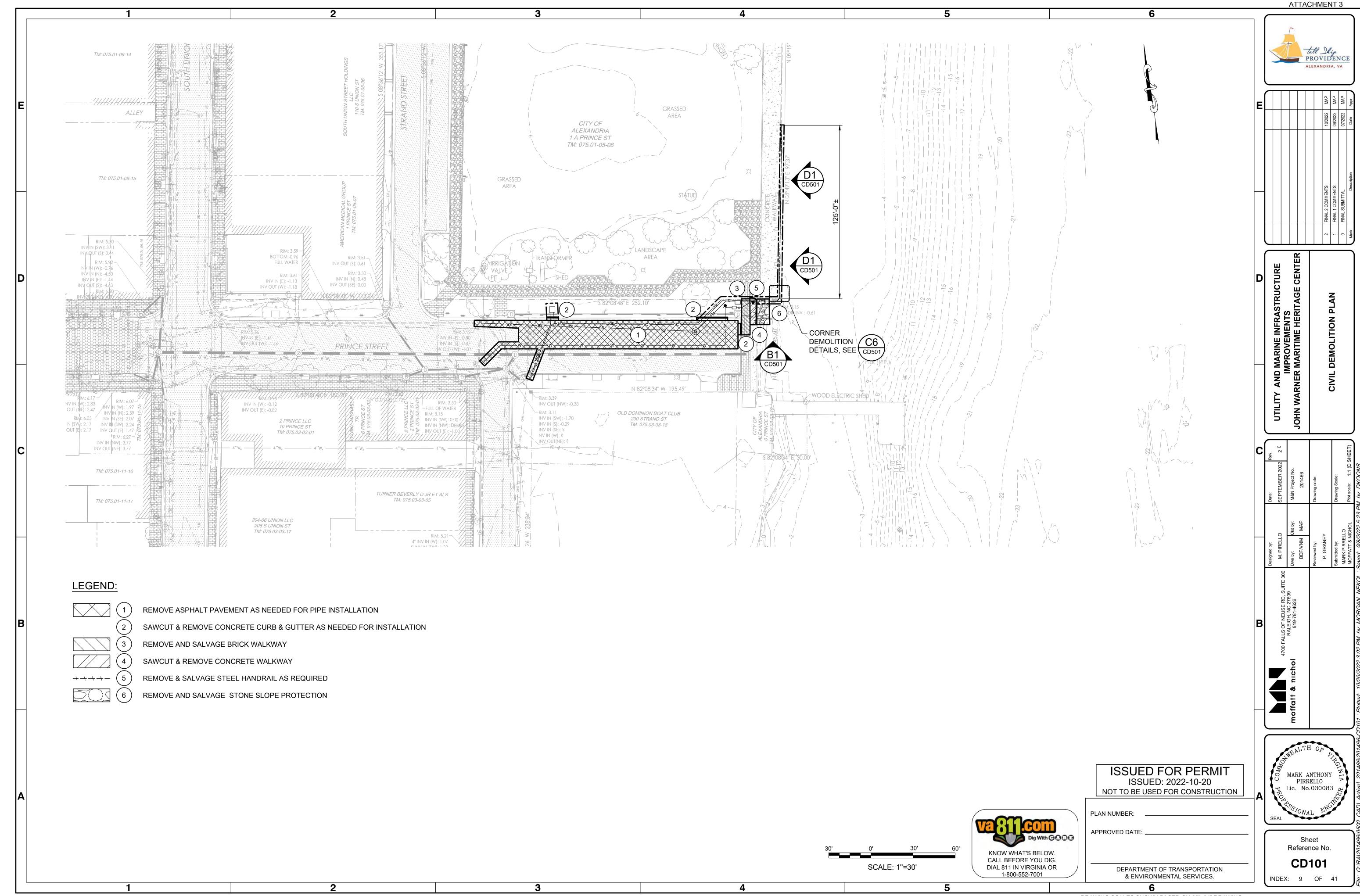
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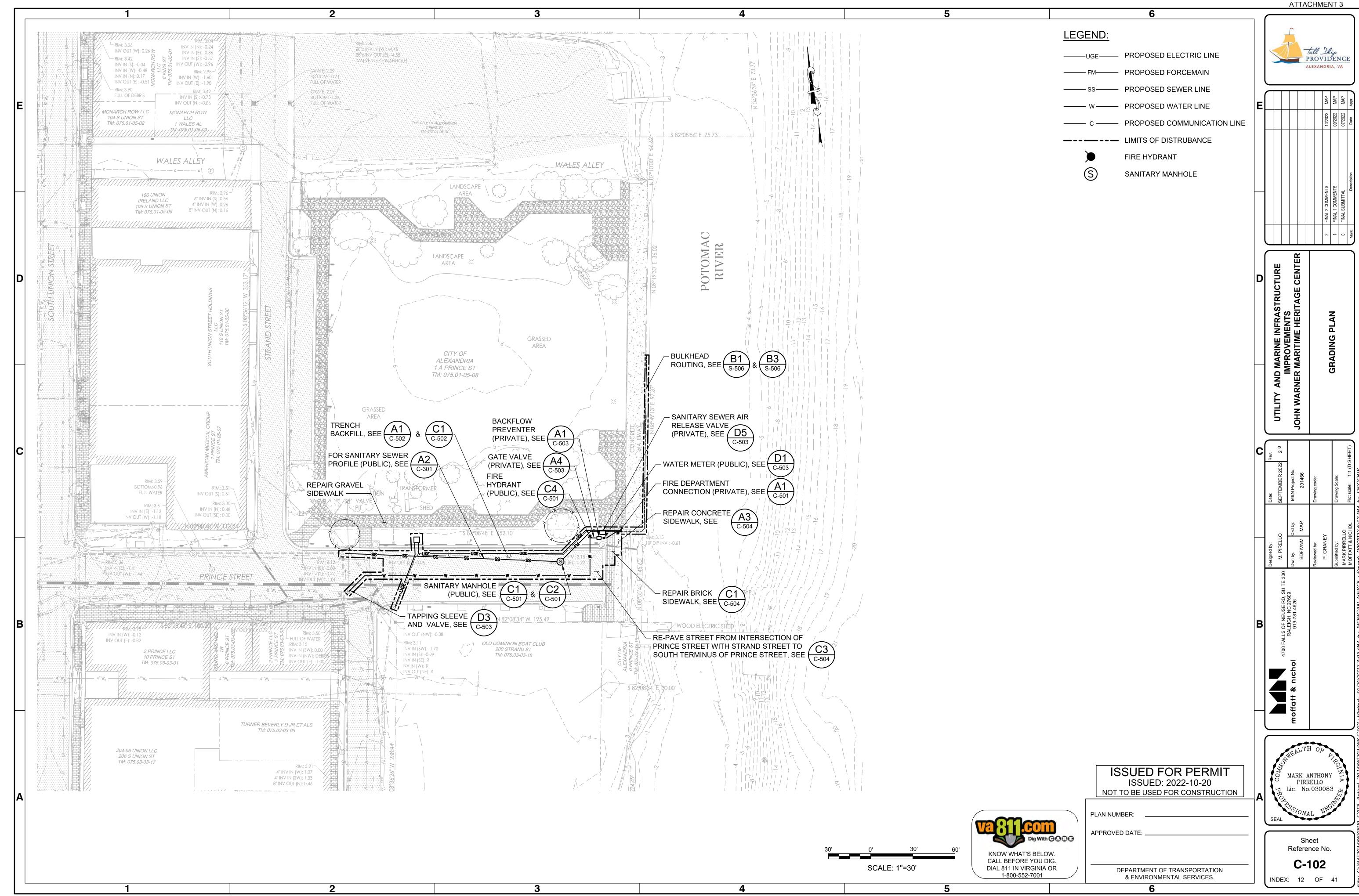
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PLAN NUMBER: DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES.

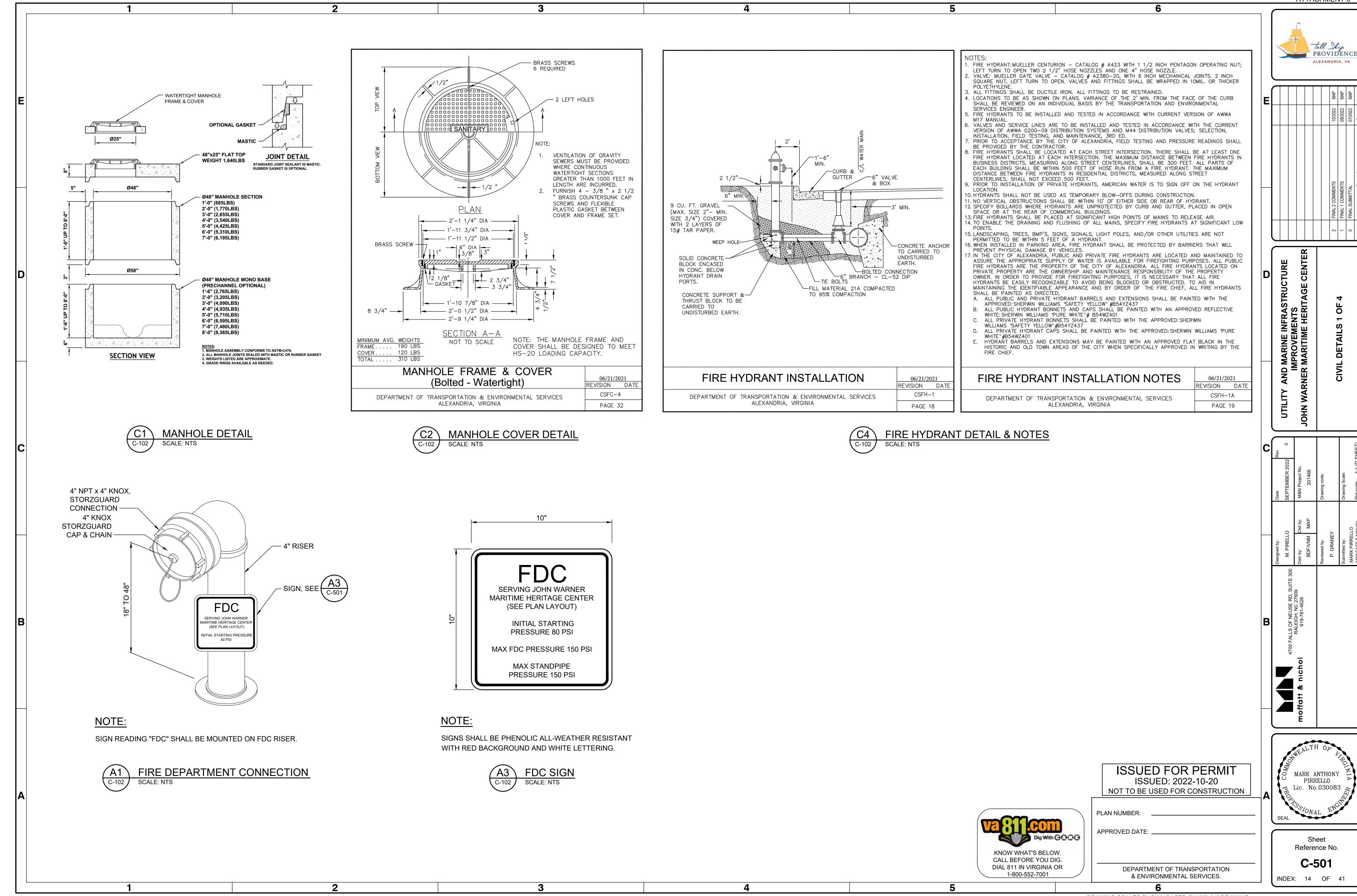
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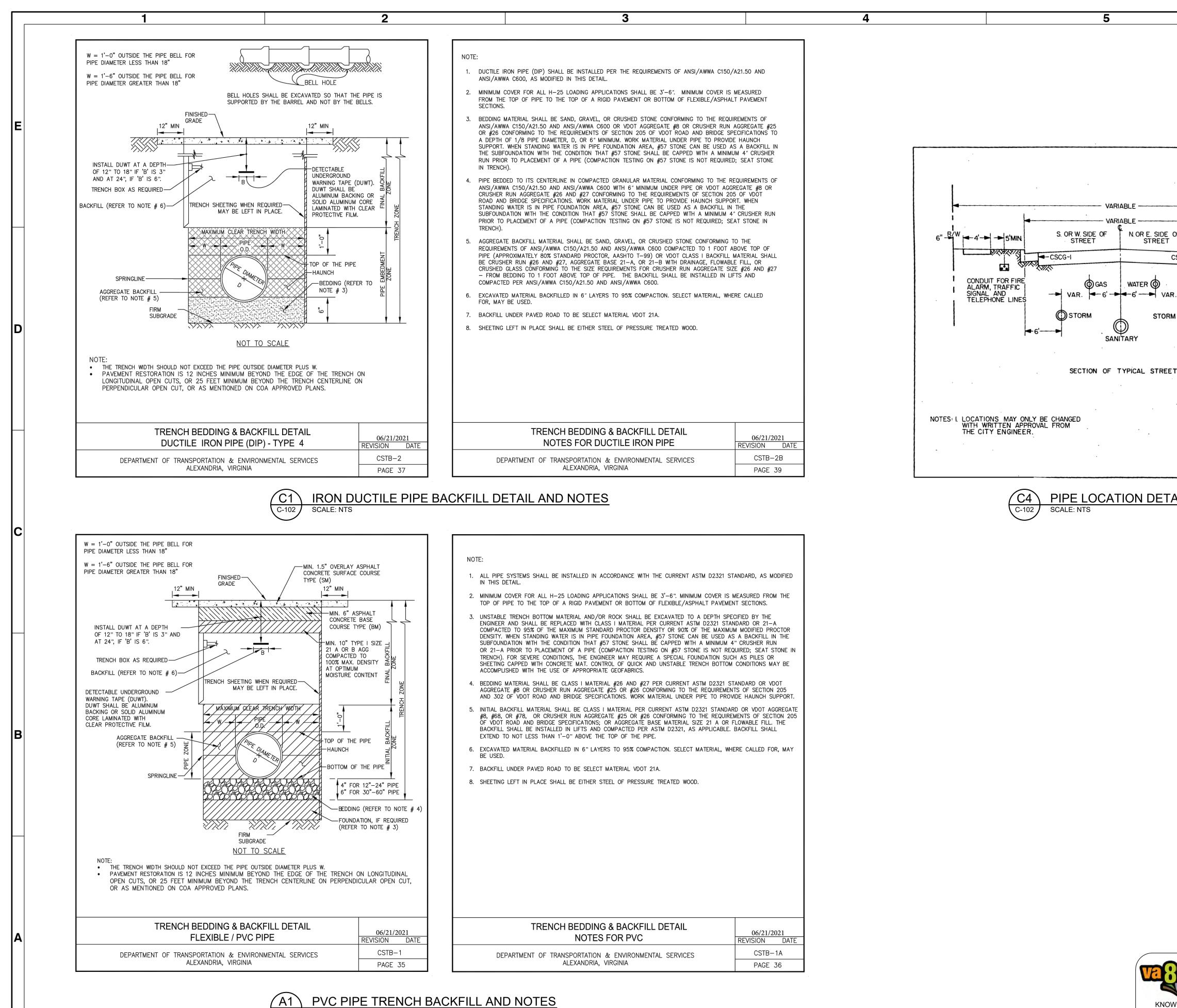


10/20/2022



ATTACHMENT 3





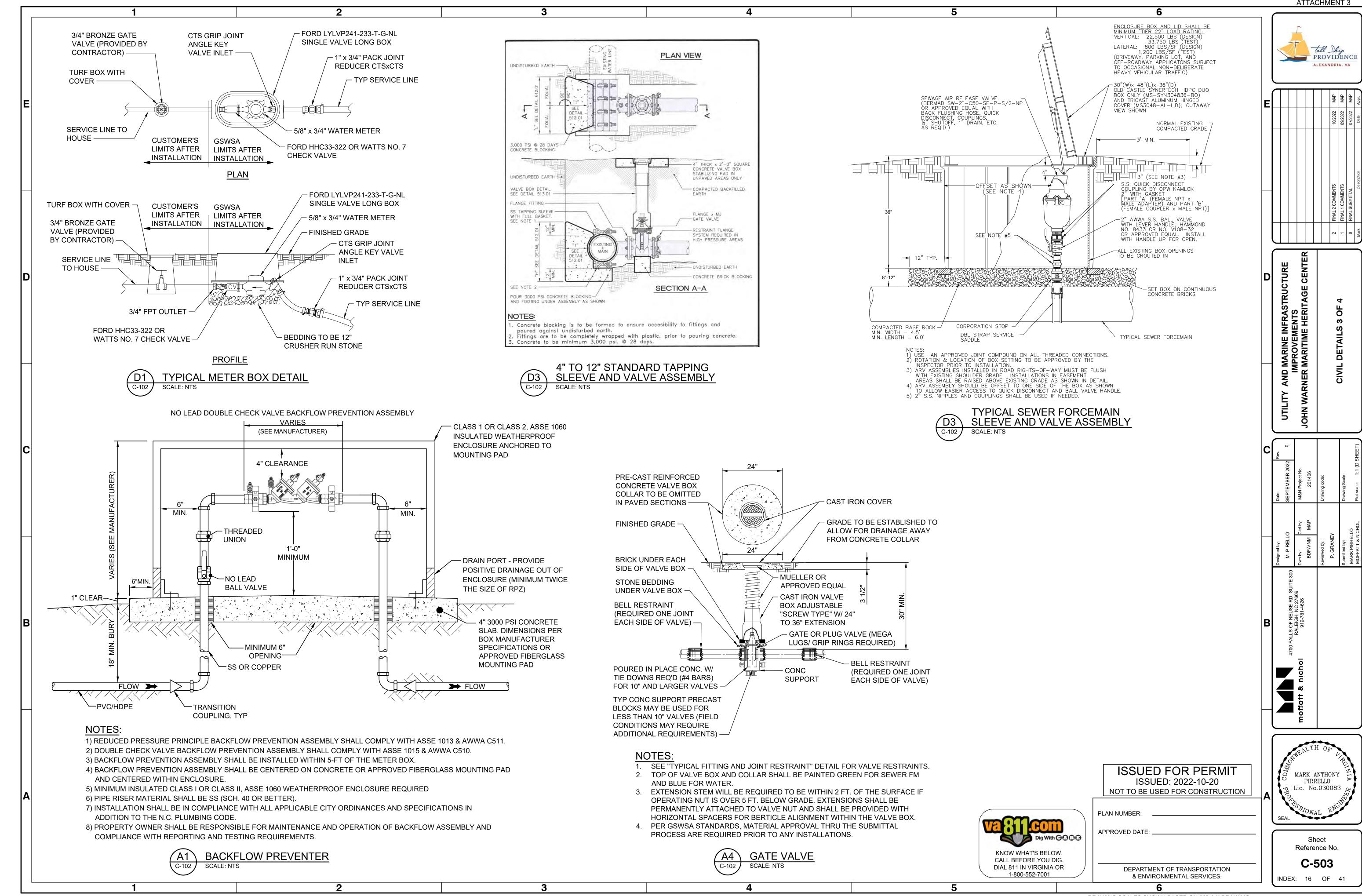
VARIABLE ----N.OR E. SIDE OF CSCG-I -CONDUIT FOR POWER CENTI STORM (C) JFRASTRUC ENTS HERITAGE SECTION OF TYPICAL STREET TRANSPORTATION & ENVIRONMENTAL SERVICES DEPARTMENT VIRGINIA LITY AND IN WARNER STANDARD LOCATION OF SEWERS & UTILITIES PAGE 21 5 PIPE LOCATION DETAIL **ISSUED FOR PERMIT** MARK ANTHONY ISSUED: 2022-10-20 PIRRELLO Lic. No.030083 NOT TO BE USED FOR CONSTRUCTION PLAN NUMBER: APPROVED DATE: Sheet Reference No. KNOW WHAT'S BELOW. CALL BEFORE YOU DIG. DIAL 811 IN VIRGINIA OR DEPARTMENT OF TRANSPORTATION 1-800-552-7001 & ENVIRONMENTAL SERVICES. INDEX: 15 OF 41

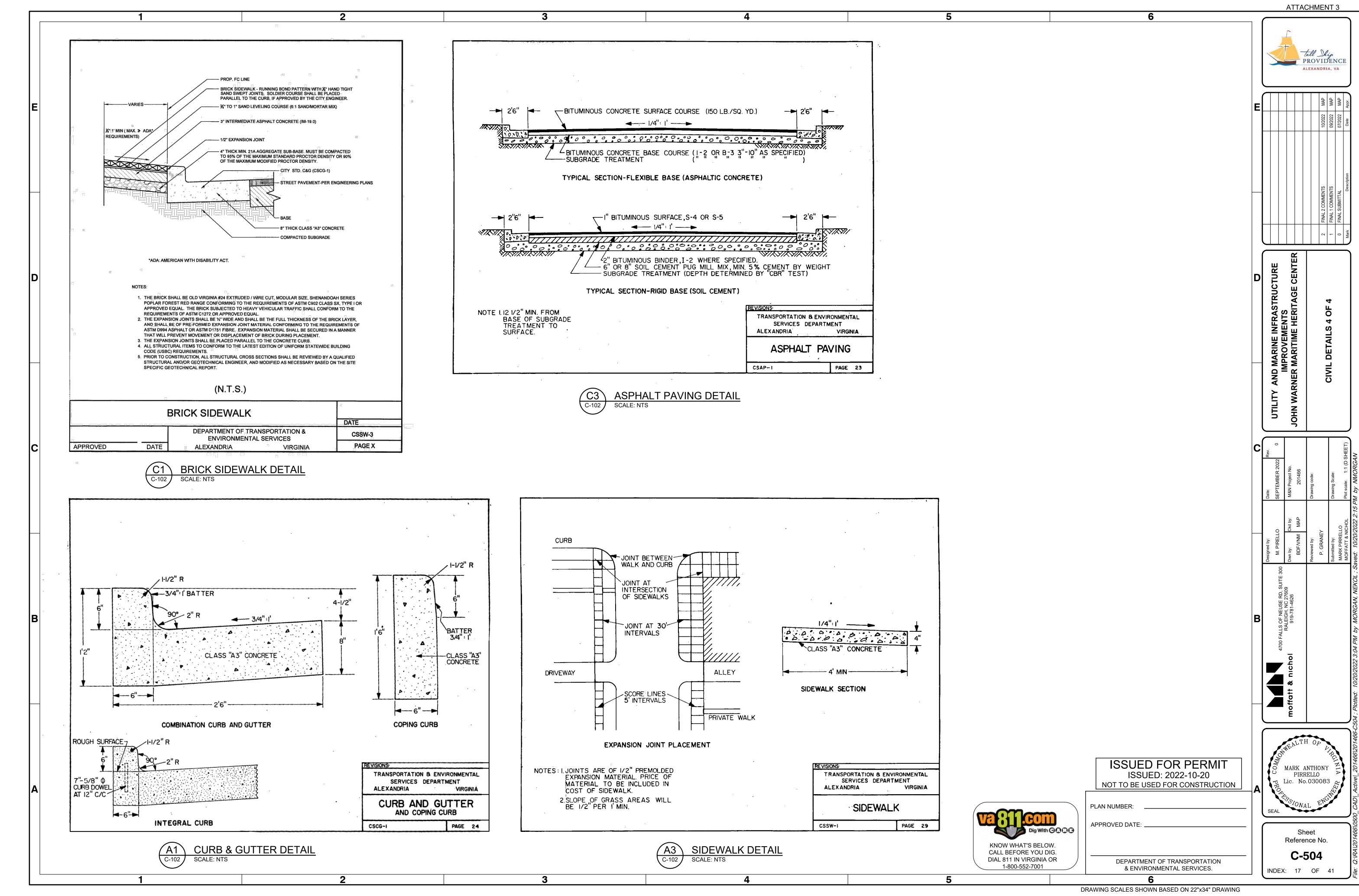
DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

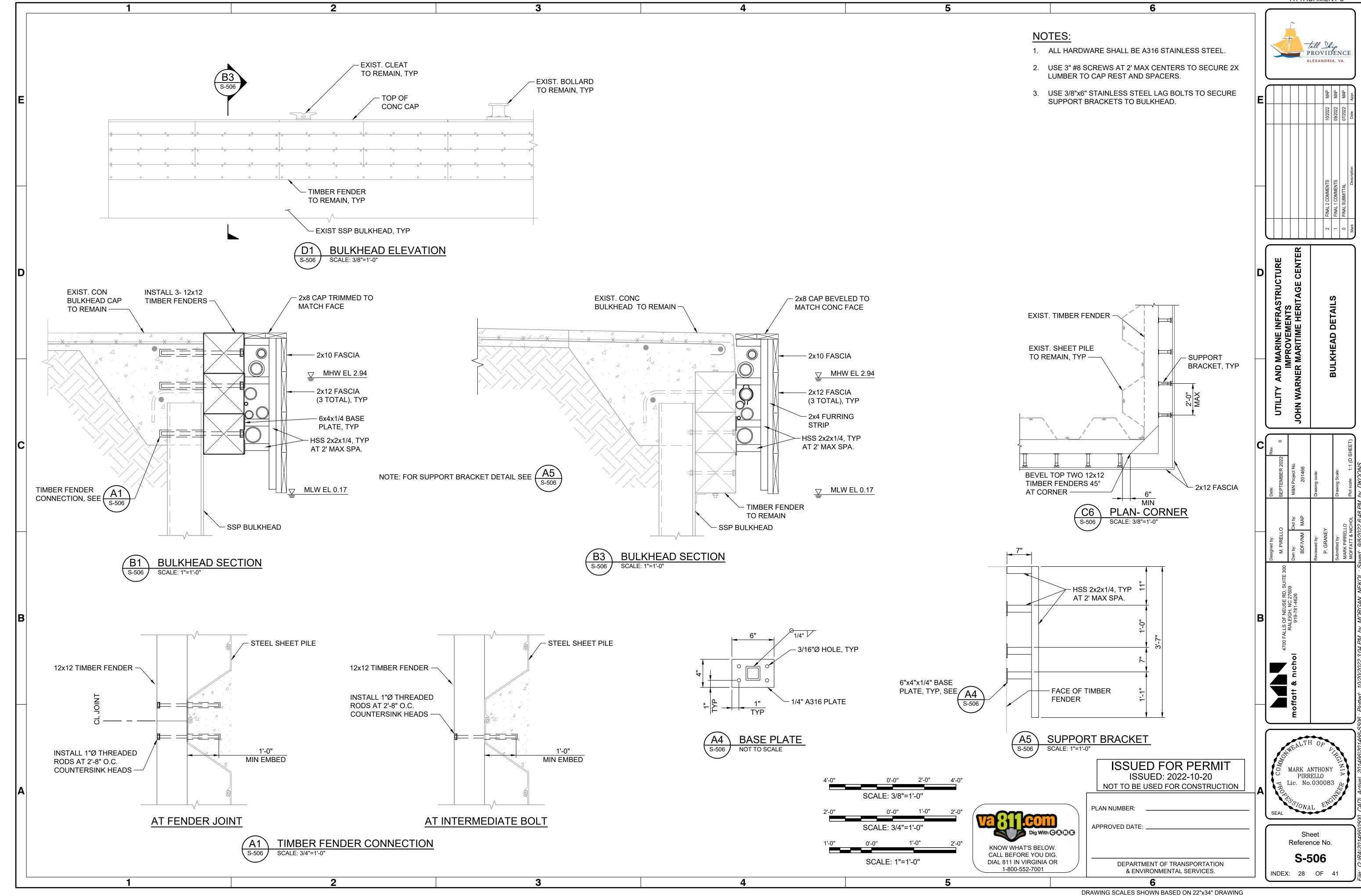
ATTACHMENT 3

PROVIDENCE

ALEXANDRIA, VA







A. UNDER THIS SECTION THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, EQUIPMENT

APPURTENANCES, SERVICES AND SUPERVISION FOR A COMPLETE ELECTRICAL SYSTEM AS

ACCESSORIES WHICH ARE NECESSARY TO ACCOMPLISH THIS RESULT SHALL BE PROVIDED.

MANUFACTURER'S INSTRUCTIONS, WRITTEN OR OTHERWISE, SHALL BE FOLLOWED, UNLESS

B. "PROVIDE" IS DEFINED TO MEAN THAT THE CONTRACTOR SHALL FURNISH, INSTALL, ADJUST, TEST

WIRING, AND MISCELLANEOUS ITEMS AS NECESSARY FOR A COMPLETE AND OPERATIONAL

C. CONTRACTOR SHALL GIVE REQUIRED NOTICES, OBTAIN NECESSARY PERMITS, AND PAY PERMIT

D. THE DRAWINGS INDICATE DIAGRAMMATICALLY THE EXTENT OF THE WORK. MINOR VARIATIONS IN

ADDITIONAL CHARGE. REFER TO ARCHITECTURAL, STRUCTURAL, AND CIVIL DRAWINGS FOR

ELECTRICAL SYSTEMS WITHOUT INTERFERING WITH PIPES, STRUCTURAL STEEL, OR OTHER

GUIDANCE ON DIMENSION, DETAILS, AND LOCATIONS OF DUCTS AND PIPES. INSTALL THE

E. ALL DIMENSIONS AND ELEVATIONS NOTED ARE ENGLISH UNITS UNLESS OTHERWISE NOTED.

COOPERATE AND COORDINATE THE WORK OF THIS DIVISION WITH OTHER TRADES.

STANDARDS, CODES, ETC. FORM A PART OF THESE SPECIFICATIONS:

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA)

ALL STATE AND LOCAL BUILDING CODES.

INTERNATIONAL BUILDING CODE (IBC).

INTERNATIONAL FIRE CODES (IFC).

NATIONAL ELECTRICAL CODE (NEC).

UNDERWRITERS LABORATORIES (UL).

SHALL BE CORRECTED WITHOUT COST TO THE OWNER.

FIXTURE INDICATED BASED ON IES PUBLISHED PROCEDURES.

INFORMATION FROM EQUIPMENT MANUFACTURERS.

DEMOLITION/CONSTRUCTION.

UNLESS OTHERWISE NOTED.

REPRESENTATIVE.

2. GENERAL MATERIAL REQUIREMENTS:

DESIGNED AND APPROVED.

UNDAMAGED CONDITION.

TO PLACING ORDER OR PURCHASE.

STAINLESS STEEL), UNLESS NOTED OTHERWISE.

ILLUMINATING ENGINEERING SOCIETIES (IES).

ASTM INTERNATIONAL (ASTM).

G. ALL WORK TO CONFORM TO THE LATEST EFFECTIVE PUBLICATIONS OF THE FOLLOWING

BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL (BICSI).

INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE).

NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA).

LOCATION OF EQUIPMENT SHALL BE MADE UPON WRITTEN APPROVAL OF THE ENGINEER AT NO

SERVICE RULES AND REGULATIONS OF THE LOCAL ELECTRIC UTILITY COMPANY

H. SUBSTANTIAL COMPLETION: UPON COMPLETION OF THE ENTIRE WORK, THE CONTRACTOR SHALL

PERFORM SUCH TESTS AS REQUIRED BY THE ENGINEER. THE ENGINEER SHALL BE GIVEN (5)

DAYS NOTICE BEFORE TESTS ARE MADE. THE CONTRACTOR SHALL FURNISH THE ENGINEER A

CERTIFICATE OF APPROVAL FROM THE LOCAL INSPECTION AUTHORITY HAVING JURISDICTION.

INDICATED OTHERWISE IN THE SPECIFICATIONS. DEFECTS DEVELOPING DURING THAT PERIOD

GUARANTEED BY THE GENERAL CONTRACTOR, STATING THAT THE WORK EXECUTED UNDER THIS

WARRANTY: CONTRACTOR SHALL FURNISH WRITTEN WARRANTY, COUNTERSIGNED, AND

DIVISION OF THE SPECIFICATIONS SHALL BE FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF 12 MONTHS FROM DATE OF FINAL ACCEPTANCE UNLESS

IT IS THE RESPONSIBILITY OF THE OWNER TO MAINTAIN THE INTEGRITY OF THE SYSTEMS.

CONTRACTOR SHALL PROVIDE OWNER WITH COMPLETE OPERATION AND MAINTENANCE

K. COMPLETE SCHEDULES OF MATERIALS AND EQUIPMENT PROPOSED FOR INSTALLATION SHALL

BE SUBMITTED TO THE ENGINEER WITHIN 30 DAYS AFTER AWARD OF THE CONTRACT. THE

SHOULD THERE BE A CONFLICT BETWEEN THESE GENERAL NOTES, WORKING DRAWINGS,

AND/OR SPECIFICATIONS. THE MOST RESTRICTIVE INTERPRETATION SHALL PREVAIL. THE

ANY CLARIFICATION OR INTERPRETATION OF THE GENERAL NOTES, WORKING DRAWINGS,

M. EXISTING CONSTRUCTION, INCLUDING UTILITIES AND OTHER MISCELLANEOUS ITEMS WHICH ARE

TO REMAIN, SHALL REMAIN UNDISTURBED AND BE PROTECTED, UNLESS OTHERWISE NOTED.

CONTRACTOR TO THEIR ORIGINAL CONDITION. AT NO ADDITIONAL EXPENSE TO THE OWNER.

AND/OR SPECIFICATIONS IN WRITING AND IN ADVANCE OF THE BEGINNING OF

N. AREAS DISTURBED DURING DEMOLITION/CONSTRUCTION SHALL BE REPAIRED BY THE

O. LIMITED STAGING AREAS SHALL BE PROVIDED ON SITE FOR CONTRACTOR'S USE. THE

CONTRACTOR SHALL CONFIRM THE EXTENTS OF STAGING AREAS WITH THE OWNERS

P. ALL EXISTING ELECTRICAL EQUIPMENT INCLUDING LIGHTING SHALL BE RETURNED TO OWNER.

OWNER RESERVES RIGHT TO REFUSAL AND CONTRACTOR SHALL DISPOSE OF EQUIPMENT.

A. EQUIPMENT AND PRODUCTS TO BE USED SHALL BE REVIEWED AND APPROVED BY OWNER PRIOR

B. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE LABEL OF A NATIONALLY

RECOGNIZED TESTING AGENCY AND SHALL BE INSTALLED IN THE MANNER FOR WHICH IT IS

C. ALL MATERIAL, INCLUDING PULL BOXES, CONDUIT BODIES, FITTINGS AND MOUNTING HARDWARE

INSTALLED OUTSIDE SHALL BE APPROVED WEATHER TIGHT CORROSION RESISTANT (316

STORE WITH MINIMUM HANDLING. STORE MATERIALS ON SITE IN ENCLOSURES OR UNDER

IN SUCH MANNER AS TO ENSURE DELIVERY TO THE INSTALLATION LOCATION IN A SOUND

PROTECTIVE COVERING. STORE PLASTIC PIPING UNDER COVER OUT OF DIRECT SUNLIGHT. DO

NOT STORE MATERIALS DIRECTLY ON THE GROUND. KEEP INSIDE OF CONDUITS, FITTINGS AND

EQUIPMENT FREE OF DIRT AND DEBRIS. HANDLE CONDUIT, FITTINGS, AND OTHER ACCESSORIES

D. CONTRACTOR SHALL INSPECT MATERIALS DELIVERED TO SITE FOR DAMAGE. UNLOAD AND

CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING FROM THE OWNER REPRESENTATIVE

SCHEDULES SHALL INCLUDE CATALOG CUTS, DIAGRAMS AND SUCH OTHER DESCRIPTIVE DATA

SHALL INCLUDE PHOTOMETRIC REPORTS BY INDEPENDENT TESTING LABORATORIES FOR EACH

AND/OR SAMPLES AS MAY BE REQUIRED BY THE ENGINEER. LIGHTING FIXTURE SUBMITTALS

AND INTEGRATE INTO A COMPLETE SYSTEM THE ITEM INDICATED. INCLUDING ALL HARDWARE

SUPERSEDED HERE IN. ALL ITEMS SHOWN ARE NEW AND SHALL BE PROVIDED FOR THE

CONTRACTOR UNLESS SPECIFICALLY INDICATED OTHERWISE.

SHOWN ON THE DRAWING. ALL MATERIAL AND EQUIPMENT SHALL BE WORKED INTO A COMPLETE,

CONVENIENT, AND ECONOMICAL SYSTEM OR SYSTEMS. ALL APPARATUS, PARTS, MATERIAL, AND

ELECTRICAL GENERAL NOTES

1. GENERAL CONDITIONS:

SYSTEM.

SYSTEMS.

FEES.

CATALOG DATA FOR REVIEW AND APPROVAL. A DIELECTRIC ISOLATION SHEET SHALL BE PLACED

MANUFACTURED BY ONE MANUFACTURER.

G. SUBSTITUTION OF MATERIAL AND EQUIPMENT: THE NAME OF A CERTAIN BRAND, MAKE, MANUFACTURER OR DEFINITE SPECIFICATION IS TO DENOTE THE QUALITY STANDARD OF ARTICLE DESIRED. SUBSTITUTION OF ANY OTHER BRAND, MAKE, OR MANUFACTURER, WHICH IN THE OPINION OF THE ENGINEER IS RECOGNIZED THE EQUAL OF THAT SPECIFIED MAY BE

H. PROVIDE ENGRAVED PLASTIC NAMEPLATES ON ALL DISTRIBUTION EQUIPMENT AND PANELS, SECURED BY MEANS OF STAINLESS STEEL RIVETS. TAPES AND ADHESIVES ARE NOT ACCEPTABLE.

I. UNLESS NOTED OTHERWISE, ALL PANEL BUSES, FEEDER CONDUCTORS AND BRANCH CIRCUIT WIRING SHALL BE COPPER. ALL WIRE SHALL BE UL LISTED, RATED FOR 600 VOLTS, NO. 12 MINIMUM SIZE, UNLESS NOTED OTHERWISE.

J. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED.

3. GENERAL INSTALLATION REQUIREMENTS:

ACCEPTED.

A. INSTALL MATERIALS AND EQUIPMENT IN FIRST CLASS AND WORKMANLIKE MANNER AND IN ACCORDANCE WITH NECA STANDARD 101-2013. RUN CONCEALED, EXCEPT AS INDICATED.

B. POWER WIRING AND POWER CONNECTIONS TO EQUIPMENT SHALL BE PROVIDED UNDER "ELECTRICAL" UNLESS OTHERWISE INDICATED ON THE ELECTRICAL DRAWINGS. WHEN SUBSTITUTED MOTORS AND/OR EQUIPMENT REQUIRES ELECTRICAL MODIFICATIONS, THE COST OF THE ELECTRICAL MODIFICATIONS AND COORDINATION SHALL BE INCLUDED UNDER THE DIVISION PROVIDING THE MOTOR AND/OR EQUIPMENT.

C. THE ELECTRICAL CONTRACTOR SHALL NOT BORE, NOTCH OR IN ANY WAY CUT INTO ANY STRUCTURAL MEMBER, WITHOUT APPROVAL FROM THE ENGINEER. THE ELECTRICAL CONTRACTOR SHALL PROVIDE SUPPORT FOR ALL ELECTRICAL EQUIPMENT TO COMPLY WITH THE REQUIREMENTS OF THE LATEST ADOPTED BUILDING CODE AND ALL LOCAL ORDINANCES.

D. SCHEDULING, TRENCHING, LINE SHUTDOWN, DRAINAGE, TIE-IN, CONDUIT BEDDING, SUPPORTS, INSTALLATION OF NEW LINE, WALL PENETRATIONS, AND EQUIPMENT PLACEMENTS, TESTING, WARNING TAPE, BACKFILL, SURFACING, LANDSCAPING, ACTIVATION OF SERVICE, ETC., SHALL COMPLY WITH THE LOCAL BUILDING CODE STANDARDS AND REGULATIONS AND SHALL BE COORDINATED WITH THE LOCAL CODE OFFICIAL AND THE FIRE DEPARTMENTS. PRIOR APPROVAL OF AND NOTICE TO PROCEED WITH CONCEALING ELECTRICAL WIRING AND FINAL CONNECTIONS ARE REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

E. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY LOCATIONS IN THE FIELD BEFORE STARTING WORK. THE REGIONAL NOTIFICATION CENTER (AND/OR PROPERTY OWNERS) SHALL BE NOTIFIED 48 HOURS PRIOR TO THE START OF SHUTDOWN, DIGGING OR EXCAVATION WORK. THE CONTRACTOR SHALL FIELD VERIFY THE POINTS OF CONNECTIONS AND PHASED CONSTRUCTION TIE-INS. LOCATIONS OF PIPING AND APPURTENANT FITTINGS SHOWN ON THE DRAWINGS ARE APPROXIMATE. IT IS INTENDED THAT SUCH ITEMS BE LOCATED BASED ON EXACT LOCATIONS DETERMINED IN THE FIELD AND THE SUPPLIED MATERIALS.

EXISTING UTILITIES TO REMAIN FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. SHOULD SPECIAL EQUIPMENT BE REQUIRED TO WORK OVER AND AROUND THE UTILITIES, CONTRACTOR SHALL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FOR FURNISHING SPECIAL EQUIPMENT SHALL BE INCLUDED IN THE PRICE BID.

G. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL CONDUITS AND WIRES WITH A MINIMUM NUMBER OF BENDS AND IN SUCH A MANNER AS TO CONFORM TO THE STRUCTURE. AVOID OBSTRUCTIONS, AND MEET ALL STRUCTURAL CODE REQUIREMENTS. THESE DRAWINGS ARE PRIMARILY DIAGRAMMATIC, AND DO NOT SHOW ALL SUCH REQUIRED BENDS, OFFSETS, FITTING

H. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY NATIONAL ELECTRICAL CODE. POWER CONDUITS SHALL HAVE A INSULATED COPPER, CODE SIZED GROUND

WIRE INSTALLED.

I. VEHICULAR ACCESS MUST BE PROVIDED AND MAINTAINED SERVICEABLE THROUGHOUT CONSTRUCTION.

J. DIELECTRIC COUPLINGS/FLANGES SHALL BE USED AT DISSIMILAR METAL PIPING CONNECTIONS,

POSTS.

K. SUPPORTS AND HANGERS SHALL BE 316 STAINLESS STEEL (UNLESS OTHERWISE NOTED) AND SHALL BE FROM MANUFACTURED SHAPES. FIELD BENDING IS NOT PERMITTED. PLATE MATERIAL MAY BE WELDED IN THE FIELD TO FORM SHAPES.

4. CONDUIT REQUIREMENTS:

A. BURIED CONDUIT LINES SHALL HAVE PLASTIC WARNING TAPE MEETING APWA STANDARDS WITH METALLIC CORE OR METAL FACED PLACED IN TRENCH ABOVE PIPING. THE TAPE SHALL BE PLACED 9 INCHES TO 12 INCHES BELOW FINISHED GRADE.

B. ALL CONDUIT SHALL FOLLOW THE GENERAL ARRANGEMENT SHOWN. CONDUIT SHALL BE RUN ESSENTIALLY AS INDICATED, CARE BEING TAKEN TO AVOID INTERFERENCE WITH OTHER PIPING, CONDUIT OR EQUIPMENT. BEFORE JOINTING AND INSTALLATION OF CONDUIT, THOROUGHLY CLEAN INTERIORS OF CONDUIT, AND COMPONENTS. MAINTAIN CLEANLINESS BY CLOSURE OF CONDUIT OPENINGS WITH CAPS OR PLUGS.

C. THE CONTRACTOR SHALL ENSURE SUFFICIENT CONDUIT FLEXIBILITY AND ANCHORAGE IS PROVIDED FOR ALL LINES FOR THERMAL EXPANSION AND CONTRACTION, PRESSURE AND FLEXING. THE STRUCTURE AND COMPONENTS SHALL ACCOMMODATE THE CONDUIT LAYOUT REQUIREMENTS SUCH THAT THE CONDUIT SHALL NOT BECOME OVERSTRESSED. THE CONDUIT SHALL BE PROPERLY SECURED IN ACCORDANCE WITH NEC.

D. CONDUIT AND FITTINGS SHALL CONFORM TO THE FOLLOWING:

(1) RIGID STEEL - ANSI C80 (HOT DIPPED GALVANIZED).
(2) PVC COATED RIGID STEEL - ANSI RN 1, TYPE 40 (40 MILS THICK).
(3) PLASTIC CONDUIT (PVC) - NEMA TC-2 AND TC-3.
(4) FLEXIBLE METAL CONDUIT - UL-1.
(5) LIQUID-TIGHT FLEXIBLE METAL CONDUIT - UL-360.

E. CONDUIT SHALL BE RUN CONCEALED, EXCEPT CONDUIT MAY BE EXPOSED AS APPROVED BY THE ENGINEER. WHERE FLEXIBILITY IS REQUIRED, PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT EXCEPT AS INDICATED OTHERWISE. CONDUITS RUN EXPOSED SHALL BE GALVANIZED RIGID STEEL, UNLESS OTHERWISE NOTED. LIQUID TIGHT FLEXIBLE METALLIC CONDUIT RUN EXPOSED SHALL BE RATED AS SUNLIGHT RESISTANT.

F. CONDUIT RUN ON LAND SHALL BE BURIED A MINIMUM OF 36 INCHES BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. CONDUITS RUN BELOW SLAB ON GRADE SHALL BE BURIED A MINIMUM OF 12 INCHES BELOW SLAB, AND SHALL BE RIGID HOT DIPPED GALVANIZED STEEL CONDUIT PAINTED WITH TWO COATS OF BITUMASTIC PAINT, OR RIGID NON-METALLIC POLYVINYLCHLORIDE CONDUIT, MINIMUM SCHEDULE 40, AT THE OPTION OF THE CONTRACTOR, UNLESS A SPECIFIC TYPE OF CONDUIT IS SPECIFIED OR INDICATED ON THE DRAWINGS.

G. RIGID STEEL CONDUIT FITTINGS SHALL BE THREADED.

H. MINIMUM SIZE CONDUIT SHALL BE INDICATED AND AS REQUIRED BY NATIONAL ELECTRIC CODE WITH A MINIMUM SIZE OF 3/4".

FLEXIBLE CONDUIT SHALL BE GALVANIZED, SINGLE STRIP TYPE. IN AREAS SUBJECT TO MOISTURE, OR WHERE CALLED FOR ON THE DRAWINGS, FLEXIBLE CONDUIT SHALL HAVE A PLASTIC COVERING IN ACCORDANCE WITH NEC. FITTINGS SHALL BE STANDARD UL APPROVED WITH GROUND CONNECTOR. WATERTIGHT CONNECTORS SHALL BE USED WITH PLASTIC COVERED CONDUIT. FLEXIBLE CONDUIT, MINIMUM 18 INCHES/ MAXIMUM 48 INCHES IN LENGTH, SHALL BE USED FOR CONNECTIONS TO MOTORS, DRY TYPE TRANSFORMERS AND OTHER EQUIPMENT SUBJECT TO VIBRATION.

J. EXPOSED CONDUITS SHALL BE RUN PARALLEL AND PERPENDICULAR TO STRUCTURES AND SHALL BE SUPPORTED AS SPECIFIED AND IN ACCORDANCE WITH NEC.

CONDUIT SUPPORTS SHALL BE APPROVED WALL BRACKETS, TRAPEZE, STRAP HANGER OR PIPE STRAPS SECURED TO HOLLOW MASONRY WITH TOGGLE BOLTS; TO CONCRETE WITH DRILL AND EPOXY IN PLACE RODS, EXPANSION BOLTS ARE NOT PERMITTED TO BE USED; TO METAL SURFACES WITH MACHINE SCREWS; AND TO WOOD WITH WOOD SCREWS. ANY FORM OF TIE WIRE IS UNACCEPTABLE.

L. PROVIDE EXPANSION FITTINGS WHERE CONDUITS CROSS EXPANSION JOINTS. PROVIDE SLIP JOINTS AS NECESSARY FOR THERMAL EXPANSION AND CONTRACTION.

M. CONDUIT TERMINATIONS AND CONDUIT STUBS SHALL HAVE INSULATING BUSHINGS.

N. CONDUITS PASSING THROUGH BULKHEADS, CONCRETE WALLS, FLOORS OR FOOTINGS AND SLAB ON GRADE SHALL BE MADE WATERTIGHT. PROVIDE PIPE SLEEVES WITH ONE-HALF INCH MINIMUM CLEARANCE AROUND THE CONDUIT AND CAULK WITH SEALANT.
O. PROVIDE 4" MINIMUM SEPARATION BETWEEN ELECTRICAL AND OTHER UTILITIES.

P. PROVIDE STAINLESS STEEL CABLE/CONDUIT TAGS WITH STAINLESS STEEL STRAPS. EMBOSS TAG WITH PANEL AND CIRCUIT NUMBER TO EACH CONDUIT AND WIRE. THIS APPLIES TO ALL CONDUIT/WIRE TERMINATIONS, MANHOLES, HANDHOLES, TERMINATION BOXES, AND EXPOSED CONDUITS AT TERMINATIONS AND EVERY 100' OF EXPOSED CONDUIT.

Q. EVERY NEW SPARE CONDUIT SHALL HAVE A PULL STRING INSTALLED. EVERY NEW SPARE CONDUIT SHALL HAVE A #12 (MIN) COPPER TRACER WIRE INSTALLED, WITH INSULATION THAT IS NOT WHITE, GRAY, OR GREEN IN COLOR. THE TRACER WIRE MAY ALSO SERVE AS THE PULL STRING.

5. WIRING REQUIREMENTS:

A. THE ENTIRE WIRING SYSTEM SHALL BE TESTED FOR SHORT CIRCUITS, GROUNDS AND INSULATION RESISTANCE BETWEEN CONDUCTORS AND TO GROUND PRIOR TO COMPLETION OF PROJECT.

B. WIRE AND CABLE SHALL BE INSTALLED IN CONDUIT EXCEPT AS SPECIFICALLY INDICATED OTHERWISE.

C. WIRE AND CABLE SHALL BE COPPER, 600 VOLT INSULATION, MINIMUM SIZE NO. 12, TYPE "THHN/THWN" AS APPLICABLE, UNLESS OTHERWISE INDICATED ON DRAWINGS.

D. WIRES NO. 10 AND 12 AWG SHALL BE CONNECTED WITH COIL SPRING INSERT "WIRE-NUT" OR "WING-NUT" CONNECTORS MANUFACTURED BY IDEAL INDUSTRIES OR APPROVED EQUAL. CONNECTORS SHALL BE RATED 600 VOLTS.

E. WIRE SHALL BE COLOR CODED AS FOLLOWS:

208Y/120V SYSTEM 120/240V 1 PH SYSTEM
PH A - BLK
PH B - RED
PH C - BLU
NEUT - WHT

120/240V 1 PH SYSTEM
PH A - BLK
PH B - RED
PH B - RED
NEUT - WHT W/GRY STRIPE

F. PROVIDE CABLE LUGS ON ALL CABLES AS REQUIRED TO PROPERLY TERMINATE ON THE EQUIPMENT AS NECESSARY.

GND - GRN W/WHT STRIPE

6. PULL BOX REQUIREMENTS

GND - GRN

A. LANDSIDE PULL BOXES SHALL BE AS DEFINED IN DRAWINGS. MARK COVERS PERMANENTLY WITH "ELECTRICAL" OR "COMMUNICATIONS", AS REQUIRED.

B. PROVIDE 6" THICK BUILD OF CRUSHED ROCK BELOW BOX AND AS RECOMMENDED BY MANUFACTURER.

C. WHERE SEVERAL FEEDERS PASS THROUGH A COMMON PULL BOX OR JUNCTION BOX, THE FEEDERS SHALL BE TAGGED TO INDICATE CLEARLY THEIR ELECTRICAL CHARACTERISTICS, CIRCUIT NUMBER, AND PANEL DESIGNATION. PAINT SAME INFORMATION ON COVER OF THE BOX.

7. JUNCTION BOX REQUIREMENTS

A. OUTLET BOXES SHALL BE HOT DIPPED GALVANIZED OR CAST METAL AS NECESSARY WITH STANDARD KNOCKOUTS AS REQUIRED FOR CONDUIT TERMINATION. MINIMUM SIZE OF OUTLET BOX SHALL BE FOUR INCHES SQUARE, ONE AND ONE-QUARTER INCHES DEEP.

B. OUTLET BOXES OCCURRING IN FINISHED OUTSIDE WALLS AND WET AREAS SHALL BE CAST AND PROVIDED WITH GASKETS BETWEEN BOX AND WATERPROOF COVER.

(CONTINUES NEXT SHEET)

KNOW WHAT'S BELOW. CALL BEFORE YOU DIG. DIAL 811 IN VIRGINIA OR 1-800-552-7001

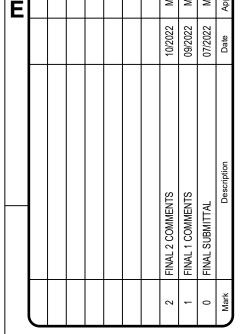
ISSUED FOR PERMIT ISSUED: 2022-10-20 NOT TO BE USED FOR CONSTRUCTION

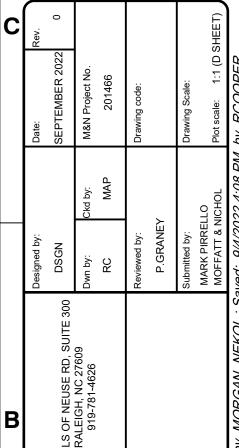
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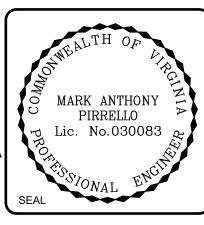
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& ENVIRONMENTAL SERVICES.







moffatt & nichol 819-781-4628



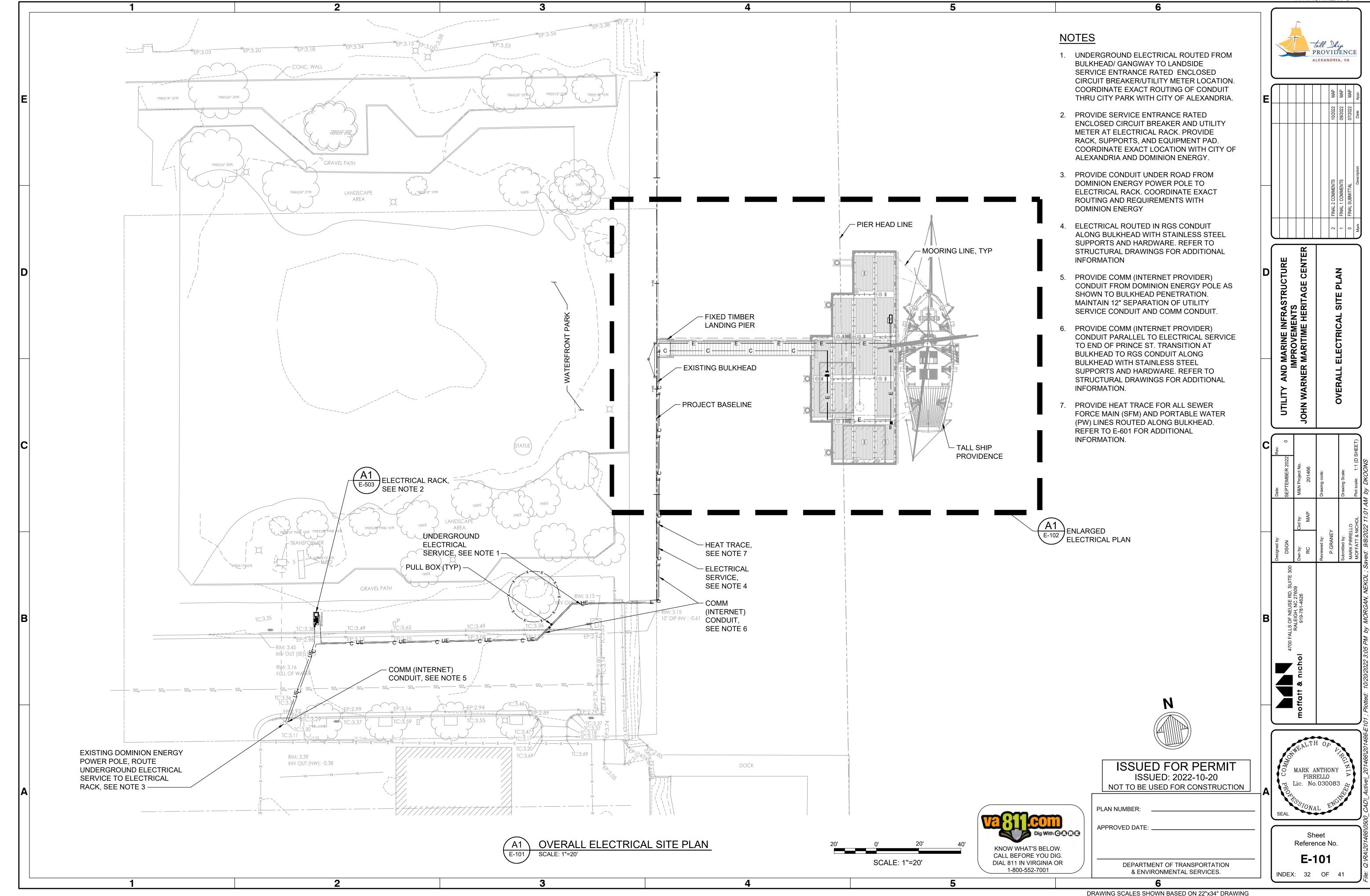
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Reference No. **E-001**INDEX: 30 OF 41

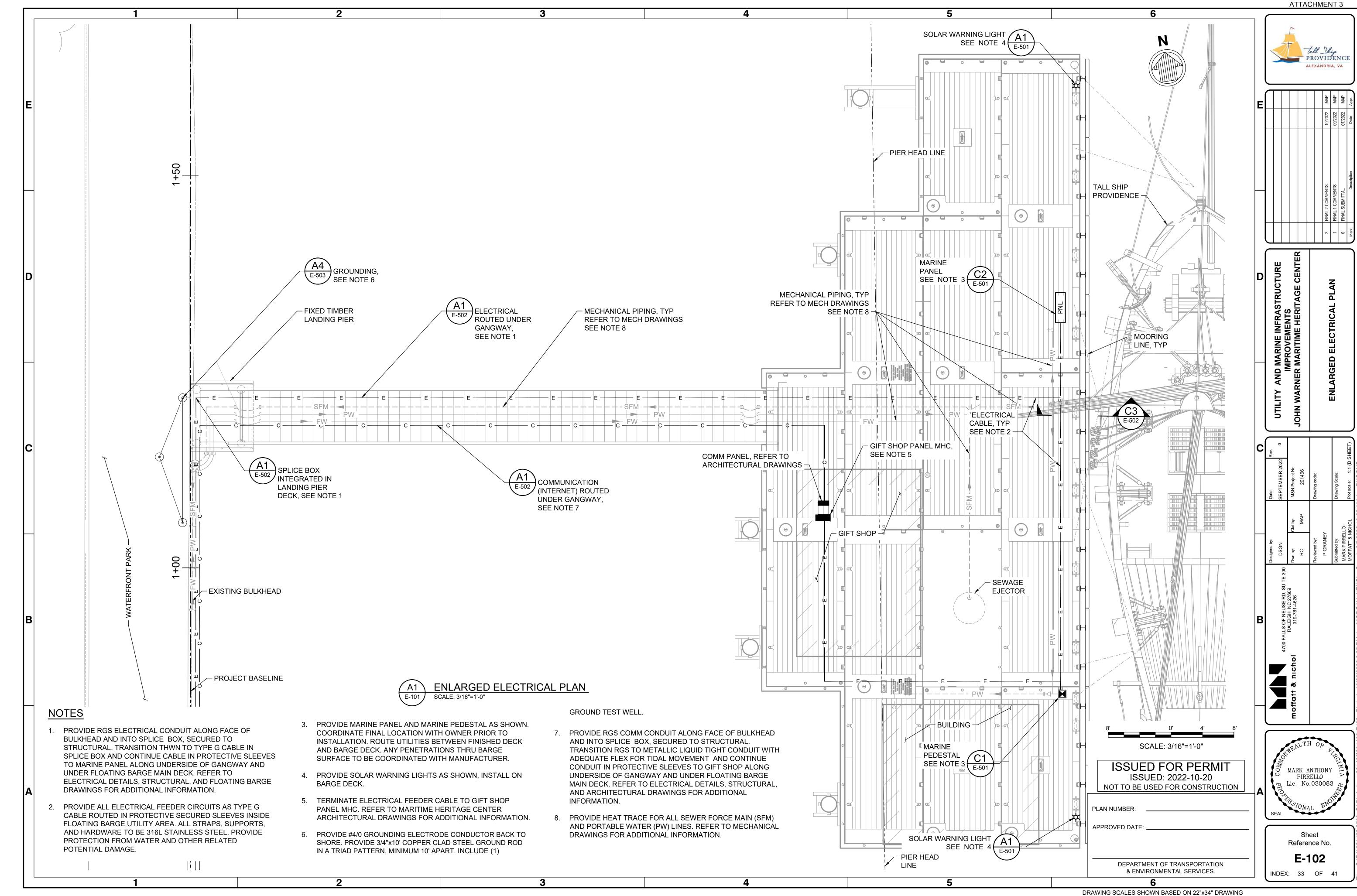
E. SUPPORTS AND HARDWARE SHALL BE 316 STAINLESS STEEL. SUBMIT SHOP DRAWINGS OR

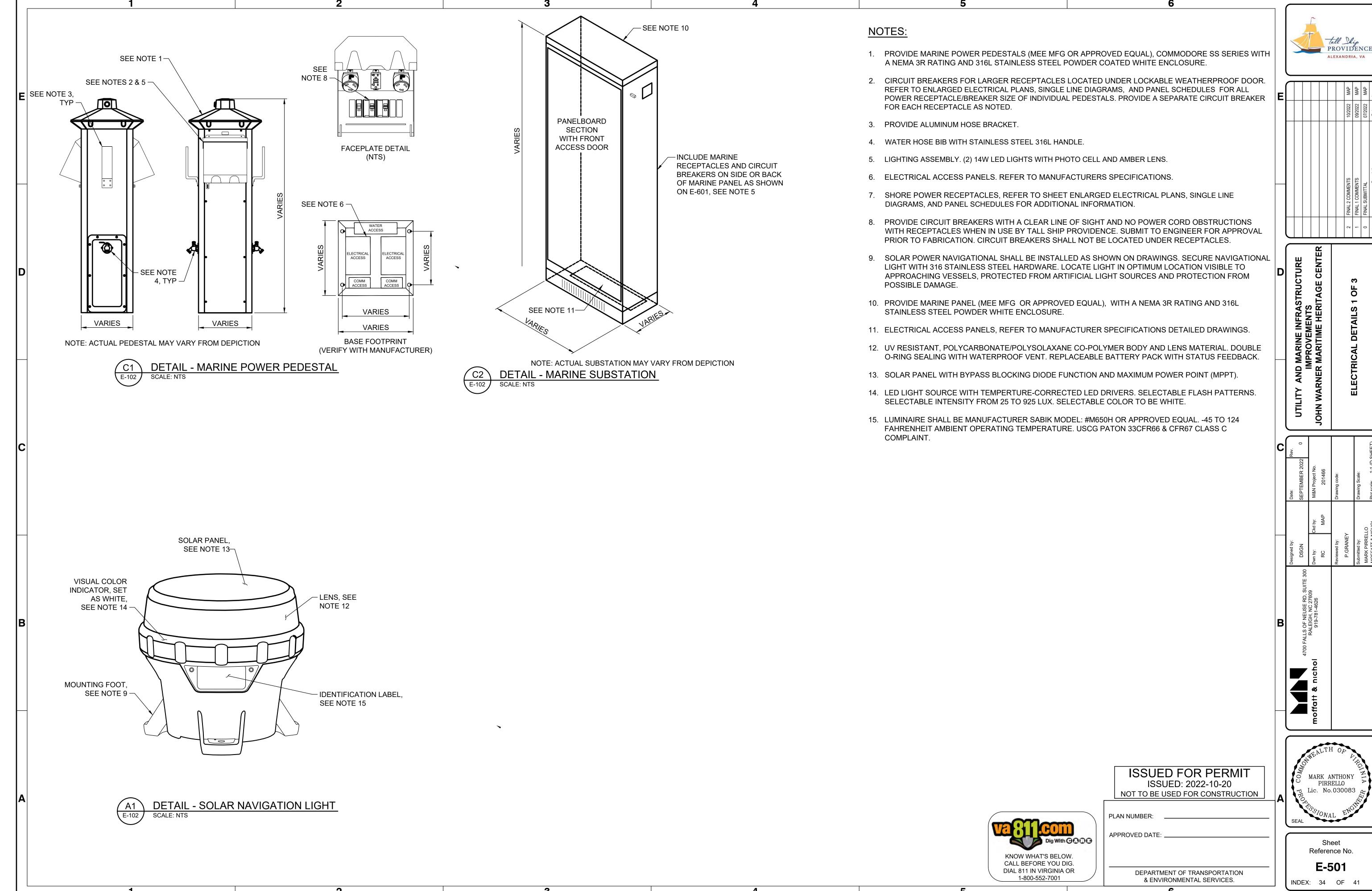
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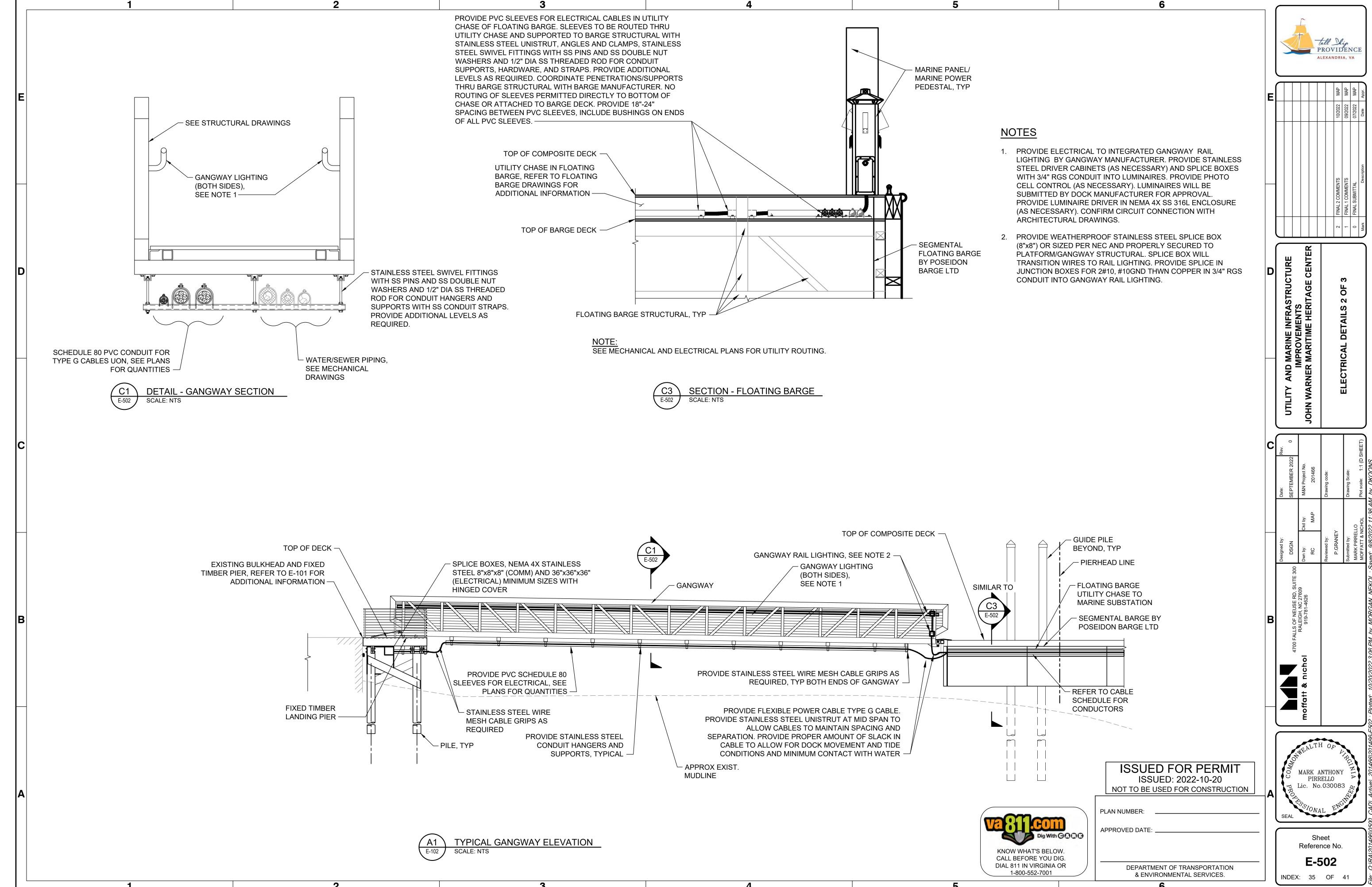
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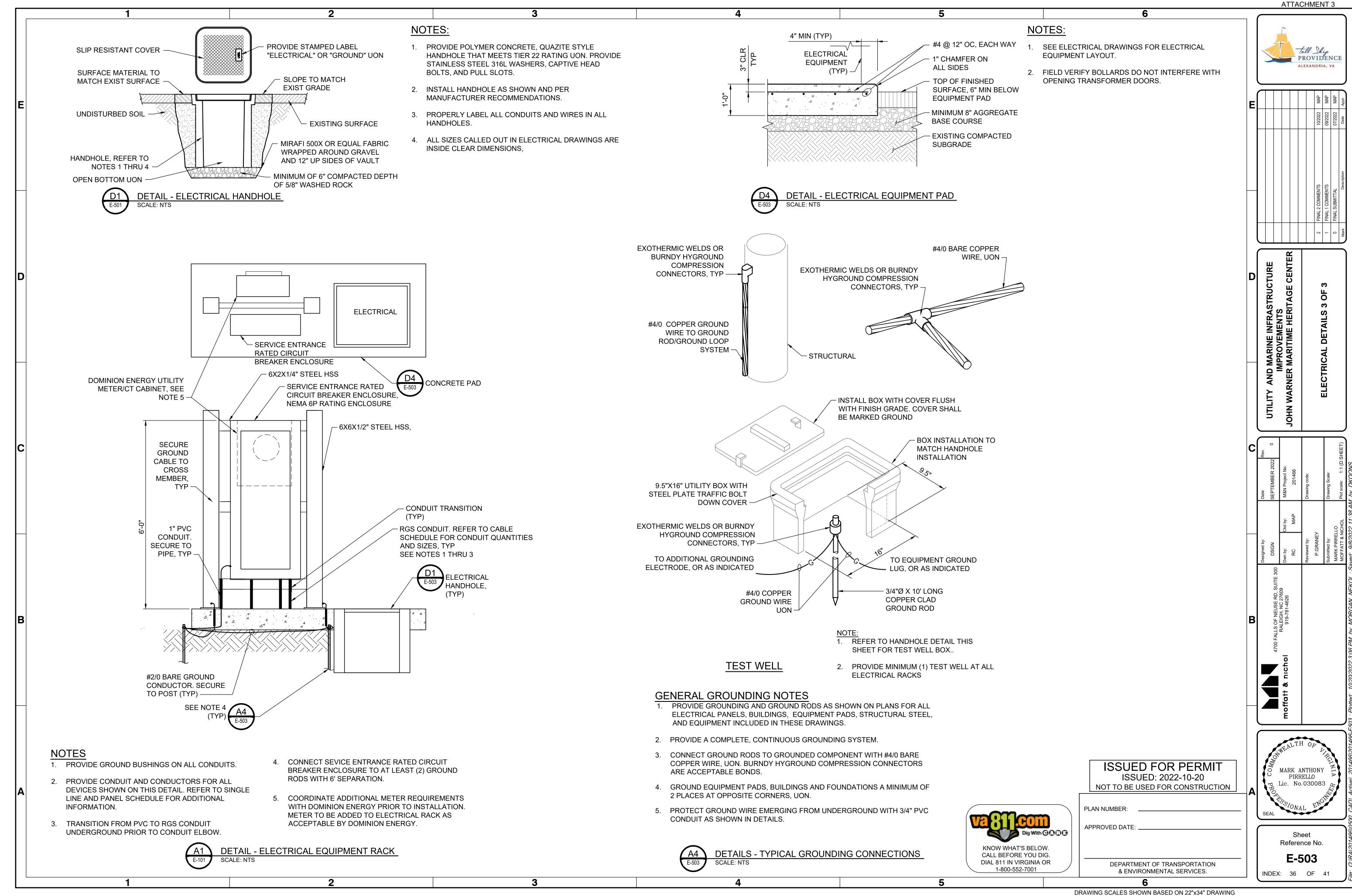
5











CONNECTED LOAD (KVA)

DEMAND FACTOR

DESIGN LOAD (KVA)

0.0

1.25

0.0

79.2

1.00

79.2

0.0

1.00

0.0

3.8

1.00

3.8

CENTE

DIA

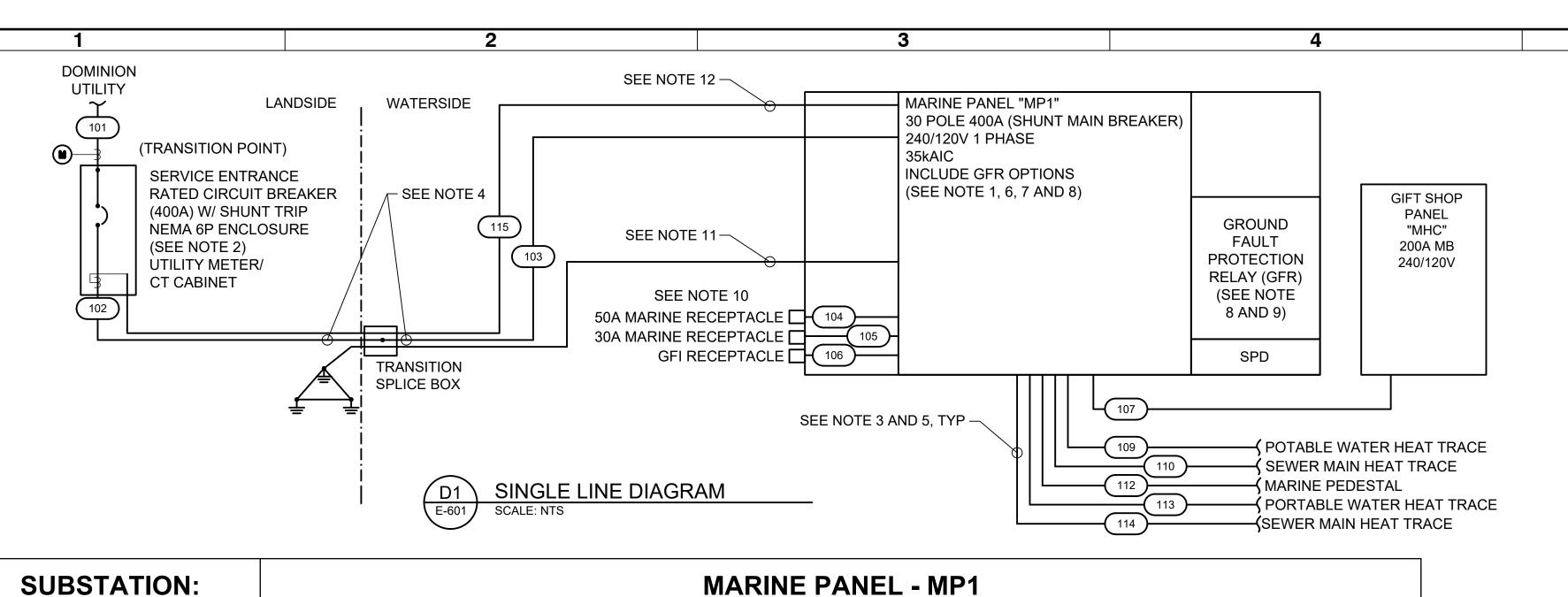
STRUCTURE

LITY AND IN IN WARNER I

tall Ship

PROVIDENCE

ALEXANDRIA, VA



VOLTAG	GE:	120/240		BUS RATI	NG (A):		400A	4					ENCLOSU	IRE:	NEMA 3R	
PHASE:		1 MAIN OC DEVICE:					400A	MAIN	BREAKE	R *			MOUNTING:		WATERSIDE WATERSIDE	
WIRE:		3+GND		INTERRUI	PTING RAT	ING (KAI	C):):			35			N:		
NEUTRA	AL:	YES		SERVICE ENTRANCE LABEL:							NO					
CKT DESCRIPTION		CONNECTE		D LOAD (V	A)	OCF)		OCF)	C	ONNECTE	D LOAD (V	A)	DESCRIPTION	СКТ
NO.	DESCRIPTION	LTS	PED	MECH	MISC	AMPS	Р		AMPS	Р	LTS	PED	MECH	MISC	- DESCRIPTION	NO.
1	MARINE PEDESTAL P5		6000			50*	2	Α	30*	2		3600			30A MARINE RECEPTACLE	2
3			6000					В				3600				4
5	(SHUNT TRIP SPACE)							Α							(SHUNT TRIP SPACE)	6
7	GIFT SHOP PANEL		24000			200*	2	В	50*	2		6000			50A MARINE RECEPTACLE	8
9			24000					Α				6000				10
11	(SHUNT TRIP SPACE)							В							(SHUNT TRIP SPACE)	12
13	SPARE					20**	1	Α	20	1			180		GROUND FAULT MONITOR	14
15	SPARE					20**	2	В	20**	1			180		RECEPT (SUBSTATION)	16
17	SPARE					20**	3	Α	20**	1			1320		HEAT TRACE - POTABLE WTR	18
19	SPARE					20	1	В	20**	1			1440		HEAT TRACE - SEWER MAIN	20
21	SPD					30	2	Α	20**	1			360		HEAT TRACE - POTABLE WTR	22
23								В	20**	1			360		HEAT TRACE - SEWER MAIN	24
25	SPACE							Α							SPACE	26
27	SPACE							В							SPACE	28
29	SPACE							Α							SPACE	30
<u>'</u>		•	•		•	LO	AD	SUN	IMARY	7	•	•	•		•	•
		LTS	PED	MECH	MISC	SPAF	RE	Т	OTAL							-
 		+	+	+	 	-		+		+	1				┥	

83.0

		CABLE SCHEDULE				
CABLE #	FROM	TO	CONDUCTORS	CONDUIT	VOLTAGE/CONTROL	SEE NOTE
101	DOMINION UTILITY	SERVICE ENTRANCE RATED CIRC BRKR/ UTILITY METER	BY DOMINION UTILITY	(2)3" RGS/PVC	240V, 1PHASE	
102	SERVICE ENTRANCE RATED DISCONNECT/UTILITY MTR	BULKHEAD - TRANSITION SPLICE BOX	2#4/0, #2 GND	(2)3" RGS/PVC	240V, 1PHASE	4
103	BULKHEAD - TRANSITION SPLICE BOX	MARINE PANEL "MP1"	2/C #4/0, #1 GND	3" RGS/4" PVC SLEEVE	240V, 1PHASE	4
104	MARINE PANEL "MP1"	MARINE PANEL "MP1" 50A RECEPTACLE	3#6, #10 GND	1" RGS	240V, 1PHASE	10
105	MARINE PANEL "MP1"	MARINE PANEL "MP1" 30A RECEPTACLE	2#10, #10 GND	1" RGS	240V, 1PHASE	10
106	MARINE PANEL "MP1"	MARINE PANEL "MP1" GFI RECEPTACLE	2#12, #12 GND	1" RGS	120V, 1PHASE	10
107	MARINE PANEL "MP1"	GIFT SHOP PANEL "MHC"	3/C #3/0, #6 GND	2" RGS	240V, 1PHASE	3
108	NOT USED					
109	MARINE PANEL "MP1"	POTABLE WATER HEAT TRACE (MAIN LINE)	2/C #8, #8 GND	1-1/2" RGS/PVC SLEEVE	120V, 1PHASE	3
110	MARINE PANEL "MP1"	SEWER MAIN HEAT TRACE (MAIN LINE)	2/C #8, #8 GND	1-1/2" RGS/PVC SLEEVE	120V, 1PHASE	3
111	NOT USED					
112	MARINE PANEL "MP1"	MARINE PEDESTAL	3/C #6, #10 GND	1-1/2" RGS/PVC SLEEVE	120/240V, 1PHASE	3
113	MARINE PANEL "MP1"	POTABLE WATER HEAT TRACE (TO PEDESTAL/BLDG)	2/C #8, #8 GND	1-1/2" RGS/PVC SLEEVE	120V, 1PHASE	3
114	MARINE PANEL "MP1"	SEWER MAIN HEAT TRACE (TO INJECTOR PUMP)	2/C #8, #8 GND	1-1/2" RGS/PVC SLEEVE	120V, 1PHASE	3
115	MARINE PANEL "MP1" GFR	SERVICE ENTRANCE RATED CIRCUIT BREAKER	2/C #14	1" RGS/PVC	CNTRL/SHUNT TRIP	12
116	NOT USED					
117	NOT USED					
118	NOT USED					
119	NOT USED					
120	NOT USED					

346

346

LINE-TO-LINE VOLTS

CONNECTED AMPS

DESIGN AMPS

LEGEND:

- * INDICATES A SHUNT-TRIP CIRCUIT BREAKER CONTROLLED BY GROUND FAULT MONITOR SYSTEM
- ** INDICATES 30mA GFCI CIRCUIT BREAKER

NOTES

- 1. PROVIDE 20A, 1P CIRCUIT BREAKER IN MARINE PANEL TO PROVIDE POWER FOR GROUND FAULT MONITOR.
- 2. PROVIDE 480V, 1 PHASE, 400A SERVICE ENTRANCE RATED CIRCUIT BREAKER WITH SHUNT TRIP IN NEMA 6P ENCLOSURE. INCLUDE PHENOLIC NAME TAG OF SERVICE TO JOHN WARNER HERITAGE CENTER AND OWNER INFORMATION. COORDINATE EXACT SIGNAGE WITH OWNER.
- 3. PROVIDE TYPE "G" CABLE IN CONDUIT SLEEVES FOR ALL SUBSTATION FEEDER CIRCUITS IN BARGE UTILITY CHASE. TYPE "G" CABLE MANUFACTURERS STANDARD GROUND CONDUCTOR SIZE FOR EACH SIZE CABLE IS ACCEPTABLE.
- 4. PROVIDE 600V, THHN/THWN COPPER CONDUCTORS FROM SERVICE ENTRANCE RATED CIRCUIT BREAKER ENCLOSURE TO TRANSITION SPLICE BOX. PROVIDE TYPE "G" CABLE FROM TRANSITION POINT TO MARINE PANEL. TYPE "G" CABLE MANUFACTURERS STANDARD GROUND CONDUCTOR SIZE FOR EACH SIZE CABLE IS ACCEPTABLE.
- 5. ALL CONDUCTORS ARE COPPER UNLESS NOTED OTHERWISE.
- 6. PROVIDE TERMINATION LUGS FOR ALL ELECTRICAL GEAR SHOWN IN THIS PLAN.
- 7. PROVIDE PERMANENT PHENOLIC SIGNAGE TO ALL ELECTRICAL GEAR, SPLICE/PULL BOXES, AND MARINE PEDESTALS STATING DEVICE NAME, PEDESTAL NUMBER, AND CIRCUIT INFORMATION.
- 8. PROVIDE MARINE PANEL AS SHOWN WITH GROUND FAULT PROTECTION RELAY, CT'S, SPD'S, SHUNT TRIP BREAKERS AS NOTED, LOCKABLE, AND NEMA 3R RATING AND 316L STAINLESS STEEL WITH POWDER COATED WHITE ENCLOSURE. MANUFACTURER TO BE MEE OR APPROVED EQUAL.
- 9. PROVIDE GROUND FAULT PROTECTION RELAY (GFR) OF MARINE PANEL AND FEEDER CIRCUITS AS SHOWN. GFM MANUFACTURER SHALL BE BENDER, MODEL: RCMS490-D OR ENGINEER APPROVED EQUAL. PROVIDE CT'S, WIRING AND MOUNTING ENCLOSURE/GUTTER AS REQUIRED FOR GFM SYSTEM. PROVIDE 120V POWER TO GFR AS INDICATED. EACH MANUFACTURED CIRCUIT SHALL BE WIRED THROUGH A DEDICATED CT. CT'S SHALL BE WIRED TO THE GFM. IN THE EVENT OF A GROUND FAULT, THE GFR WILL PROVIDE A TRIP SIGNAL TO THE RESPECTIVE SHUNT-TRIP BREAKER, DE-ENERGIZING THE CIRCUIT CONTAINING THE GROUND FAULT. SET FEEDER PROTECTION AT 30mA. SET MAIN PROTECTION AT 100MmA.
- 10. MARINE RECEPTACLES AND CIRCUIT BREAKER TO BE PRE-WIRED AND INSTALLED AS A PART OF THE MARINE PANEL
- 11. PROVIDE #4/0 GROUNDING ELECTRODE CONDUCTOR BACK TO SHORE. PROVIDE 3/4"x10' COPPER CLAD STEEL GROUND ROD IN A TRIAD PATTERN, MINIMUM 10' APART.
- 12. PROVIDE GROUND FAULT PROTECTION RELAY (GFR) SYSTEM FOR SERVICE ENTRANCE RATED CIRCUIT BREAKER AS SHOWN. IN THE EVENT OF A GROUND FAULT, THE GFR WILL PROVIDE A TRIP SIGNAL TO THE RESPECTIVE SERVICE ENTRANCE RATED SHUNT-TRIP CIRCUIT BREAKER, DE-ENERGIZING THE CIRCUIT. ALL RGS CONDUIT AND PENETRATIONS INTO NEMA 6P CABINET TO BE SEALED.

KNOW WHAT'S BELOW. CALL BEFORE YOU DIG.

DIAL 811 IN VIRGINIA OR

1-800-552-7001

	ISSUED FOR PERMIT ISSUED: 2022-10-20 NOT TO BE USED FOR CONSTRUCTION		
PLAN NUMBER:		A	
APPROVED DATE:			

APPROVED DATE: _______

DEPARTMENT OF TRANSPORTATION

& ENVIRONMENTAL SERVICES.

Sheet Reference No.

E-601

INDEX: 37 OF 41

MARK ANTHONY PIRRELLO Lic. No.030083