ADDENDUM NO. 7
A NEW BUILDING REPLACEMENT FOR:
FINKLEA FIRE STATION #6
HORRY COUNTY, SOUTH CAROLINA
HORRY COUNTY PROJECT NUMBER 2023-24-091
PMH PROJECT NO. 24002
May 22, 2025

NOTE: ADDENDUM NO. 7 HAS BEEN SENT TO GENERAL CONTRACTORS ONLY. GENERAL CONTRACTORS ARE RESPONSIBLE FOR COMMUNICATION OF THE ITEMS CONTAINED WITHIN THIS ADDENDUM TO APPROPRIATE SUB-CONTRACTORS.

THIS ADDENDUM CONTAINS:

- NINE (9) PAGES OF WRITTEN ADDENDUM
- EIGHTEEN (18) PAGES OF SPECIFICATIONS
- TWO (2) PAGES OF BULLETIN DRAWING/DETAIL
- THREE (3) PAGES OF FULL SIZE DRAWINGS
- ONE (1) PAGE OF LIGHT FIXTURE APPROVED EQUIVALENTS

QUESTIONS AND ANSWERS

Q1. THERE DON'T APPEAR TO BE SPECIFICATIONS FOR LANDSCAPING AND SPRINKLER WORK.

A1. This question was addressed in Addendum #3, 4 and 6.

Q2. IS THERE ARE CAD FILE AVAILABLE FOR THE SITEWORK WITH ORIGINAL GROUND INFORMATION AND THE PROPOSED DESIGN?

A2. This question was addressed in Addendum #5 and 6.

Q3. IS THERE A GEO REPORT AVAILABLE FOR THIS SITE?

A3. The Geotechnical Exploration Report by S&ME dated May 9, 2024 is included in the Specifications. Please refer to Section 02010.

Q4. WE HAVE A CONFLICT WITH THE BID DATE. COULD THE BID DATE BE MOVED UNTIL THE NEXT WEEK?

A4. This question was addressed in Addendum #6. Bid date remains ***Thursday, May 29th at 2:00 PM*** *local time via BidNet at: https://www.bidnetdirect.com/southcarolina/horrycounty.*

Q5. SUBSTITUTION REQUEST FOR DE LA FONTAINE INDUSTRIES FOR HOLLOW METAL DOORS AND FRAMES?

A5. This request is approved. See Approved Equivalents below.

Q6. IS THERE A WAY TO ATTACHED DOCUMENTS/DRAWINGS THAT PROVIDE CRITICAL CONTEXT TO THE QUESTIONS BEING ASKED? IF BIDNET OFFERS A SOLUTION, WE AREN'T AWARE OF IT BUT WOULD LIKE TO MAKE SURE THE DESIGN TEAMS GETS ALL NECESSARY INFORMATION.

A6. All attachments for Pre-Approvals should be emailed to Carol Durham at Horry County Procurement, however due to the timing of this answer being published, we ask that if there are any products that were not able to be submitted; please hold onto your request and once a General Contractor has officially been awarded and they have received a "Notice to Proceed", you can send that request to the awarded GC for review and consideration for approval.

Q7. DRAWING: E4.0 PANEL SCHEDULE SHOWS GE, SQD & EATON SPEC SECTION 16100-2.7 DISTRIBUTION EQUIPMENT "A" MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING: SQUARE D. CLARIFICATION / QUESTION: ARE ALL THREE MANUFACTURERS "GE, SQD & EATON" ACCEPTABLE AS NOTED ON E4.0 PANEL SCHEDULE PANEL A & PANEL B?

A7. Yes, GE, SQD & Eaton are acceptable manufacturers.

Q8. IS A SKIMMER NEEDED FOR THE POND? IF SO WHAT SIZE?

A8. Yes, please see attached Detail of required Skimmer.

Q9. CAN WE OBTAIN THE CIVIL CAD FILE?

A9. This question was addressed in Addendum #5 and 6.

Q10. ARE THERE ANY ROOF DRAINS? ON PAGE AS1 I SEE DS CALLED OUT BY THE BUILDING, BUT NO PIPE SIZE, CONNECTIONS, TIE INS TO THE STORM DRAINS, OR CLEANOUTS SHOWN?

A10. Roof drain downspouts are to be tied into the nearest drainage structure.

Q11. THE CURRENT CIVIL DRAWINGS DO NOT SHOW THE LOCATION OR CONTINUATION PIPING FOR THE OIL AND WATER SEPARATOR. PLEASE PROVIDE UPDATED PLANS SHOWING THE LOCATION OF THE OIL AND WATER SEPARATOR.

A11. Please see Sheets C6.3 and C6.3A already included in the Construction Documents.

Q12. THE CURRENT PLUMBING FIXTURE SCHEDULE DOES NOT HAVE SPECIFICATIONS FOR THE P-3 SINK LOCATED IN ROOM WH/STO 118. PLEASE PROVIDE SPECIFICATIONS FOR THE P-3 SINK.

A12. The P-3 Lavatory is as issued with the original Construction Documents. The CAD drawing layer was inadvertently turned off during a revision. Attached, please find Sketch No. P1 showing the P-3 information.

Q13. WILL THERE BE CONSIDERATION OF A DELAYED NOTICE TO PROCEED TO ALLOW FOR THE PROCUREMENT AND DELIVERY OF THE PRE-ENGINEERED BUILDING?

A13. An "Administrative Notice to Proceed" will be issued which allows time to order long lead items, but no mobilization will be allowed and pay apps can only be for deposits or insurance, etc…no project work billing will be approved until an official NTP is issued.

Q14. PER WIND LOADS STATED ON S1.0, WILL THE OH DOORS NEED TO BE IMPACT RATED? PLEASE ADVISE.

A14. Yes, OH doors will be impact rated…per Specification Section 08361, 1.3, A1, Wind load is to meet 150 MPH.

Q15. WE ARE MISSING THE SPEC AND SIZE FOR THE OIL WATER SEPARATOR ON C6.3. PLEASE ADVISE.

A15. The Oil interceptor information is shown on Drawing P4.1.

Q16A. THERE IS CONFLICTING INFORMATION REGARDING WOOD DOOR VENEER. PART 2.2 OF SPEC SECTION 082111 STATES PLAIN SLICED BIRCH DOORS AND PLAN SHEET A6.0, AND #2 UNDER DOOR NOTES STATES PLAIN SLICED RED OAK. PLEASE ADVISE AND IF THEY ARE TO BE BIRCH WILL THEY BE NATURAL BIRCH OR WHITE BIRCH.

A16A. Specification 08211, 2.2, A, 2.: Provide Plan Sliced Red Oak in lieu of Birch Veneer.

Q16B. ON PLAN SHEET A6.0 THE FRAME AT 101 SHOWS IT IS TO BE A 1 UNDER FRAME ELEVATIONS, HOWEVER ON A1.0 IT IS DRAWN TO BE A STANDARD FRAME WITH A BORROWED LITE BESIDE IT WITH DRYWALL IN BETWEEN. ARE WE ASSUMING IT IS TO MATCH THE FRAME ELEVATION 1 AND IS JUST DRAWN INCORRECTLY?

A16B. Reference Sheet A6.0 Door Schedule, Door 101 is to receive frame elevation #1.

Q16C. ON PLAN SHEET A6.0 THE FRAME AT 106 SHOWS FRAME ELEVATION 5, HOWEVER THERE ISN'T A NUMBER 5 SHOWN. ARE WE ASSUMING IT IS TO BE #3?

A16C. Reference Sheet A6.0 Door Schedule, Door 106 is to receive frame elevation #3 in lieu of frame #5 as noted. There is no frame #5.

Q16D. IN THE HARDWARE SPEC 08710 THERE ARE HARDWARE SETS WRITTEN BUT NONE OF THEM ARE ASSIGNED TO ANY OPENINGS EITHER ON THE DOOR SCHEDULE OR IN THE SPECS. PLEASE UPDATE TO SHOW WHERE THE HARDWARE SETS ARE TO BE USED.

A16D. Please refer to Item #2 under SPECIFICATIONS below.

Q16E. IN SPEC SECTION 10520 FIRE PROTECTION UNDER PART 3, 3.3 IT IS CLEARLY MARKED WHAT IS WANTED FOR FE-1, BUT THERE ARE A COUPLE FE-2 ON THE PLAN AS WELL. WHAT WOULD YOU LIKE FOR FE-2. PLEASE ADVISE.

A16E. Please refer to Item #3 under SPECIFICATIONS below.

Q17. DOCUMENT 00030 - INSTRUCTIONS TO BIDDERS HAS SECTION INSURANCE REQUIREMENTS. THIS SECTION SAYS THAT PROFESSIONAL LIABILITY INSURANCE MUST BE PROVIDED. THIS REQUIREMENT IS NOT LISTED IN SECTION 00800 SUPPLEMENTARY CONDITIONS, ARTICLE 11. THIS COVERAGE IS TYPICALLY ONLY HELD BY DESIGNERS, NOT GCS. PLEASE CONFIRM THIS COVERAGE IS NOT REQUIRED TO BE PROVIDED BY GCS.

A17. The solicitation that was sent specifically states, "Professional Liability insurance must be provided with minimum liability limits of $1,000,000 per occurrence (in addition to Commercial General Liability insurance) by professional services such as accountant, attorney, architect, design, engineering and most consultants that involve errors and omissions exposure protection." This requirement only applies to professional services such as the ones listed. This solicitation is for a general contractor, therefore this requirement does not apply.

Q18. SUBSTITUTION REQUEST FOR LOCKERS MANUFACTURING FOR LOCKERS?

A18. This request is approved. See Approved Equivalents below.

Q19. ON THE BID FORM UNDER TIME OF COMPLETION IT ALLOWS 240 DAYS FOR CONSTRUCTION DURATION. HOWEVER, CURRENT LEAD TIMES ON PRE-ENGINEERED METAL BUILDINGS ARE RUNNING APPROXIMATELY 4 MONTHS +/-. THE PEMB IS THE MAIN STRUCTURE FOR THE BUILDING. WHAT TIME AND SCHEDULE ACCOMMODATIONS WILL BE GIVEN TO ACCOUNT FOR THIS DELAY?

A19. An "Administrative Notice to Proceed" will be issued which allows time to order long lead items, but no mobilization will be allowed and pay apps can only be for deposits or insurance, etc…no project work billing will be approved until an official NTP is issued.

Q20. THE INSTRUCTIONS TO BIDDERS INDICATES THAT WE ARE TO INCLUDE SALES TAX IN OUR ELECTRONIC BID SUBMITTAL PER THE FOLLOWING "THE COUNTY IS NOT SALES EXEMPT. HORRY COUNTY IS REQUIRED TO PAY SOUTH CAROLINA SALES TAX. SALES TAX IS EXPECTED TO BE INCLUDED IN THE BIDDER'S ELECTRONIC BID SUBMITTAL. BUT, THE LINE FOR THE BID PRICE IN THE BIDNET ASKS FOR THE PRICE WITHOUT SALES TAX. WHICH IS CORRECT?

A20. All bids should be a Lump Sum to include taxes.

Q21. DOES THE EOR HAVE A RECOMMENDED COLLATERAL LOAD TO ACCOUNT FOR THE MEPS, SUPPRESSION, AND VEHICLE EXHAUST SYSTEM? PLEASE ADVISE.

A21. Please provide 10 PSF collateral load allowance in roof framing design.

Q22. WHOSE REASONABILITY ARE ANY REQUIRED WATER AND SEWER TAP / IMPACT / CAPACITY / DEVELOPMENT FEES?

A22. These fees will be paid for by the Owner.

Q23. IS THERE ANY LANE/SAFETY STRIPING IN THE APPARATUS BAYS?

A23. No lane striping in the bays.

Q24. SUBSTITUTION REQUEST FOR SESCO FOR LIGHTING PACKAGE

A24. This request is approved. See Approved Equivalents below.

Q25. THERE IS CONFLICTING INFORMATION REGARDING WOOD DOOR VENEER. PART 2.2 OF SPEC SECTION 082111 STATES PLAIN SLICED BIRCH DOORS AND PLAN SHEET A6.0, AND #2 UNDER DOOR NOTES STATES PLAIN SLICED RED OAK. PLEASE ADVISE AND IF THEY ARE TO BE BIRCH WILL THEY BE NATURAL BIRCH OR WHITE BIRCH.

A25. Specification 08211, 2.2, A, 2.: Provide Plan Sliced Red Oak in lieu of Birch Veneer.

Q26. ON PLAN SHEET A6.0 THE FRAME AT 101 SHOWS IT IS TO BE A 1 UNDER FRAME ELEVATIONS, HOWEVER ON A1.0 IT IS DRAWN TO BE A STANDARD FRAME WITH A BORROWED LITE BESIDE IT WITH DRYWALL IN BETWEEN. I AM ASSUMING IT IS TO MATCH THE FRAME ELEVATION 1 AND IS JUST DRAWN INCORRECTLY?

A26. Reference Sheet A6.0 Door Schedule, Door 101 is to receive frame elevation #1.

Q27. ON PLAN SHEET A6.0 THE FRAME AT 106 SHOWS FRAME ELEVATION 5, HOWEVER THERE ISN'T A NUMBER 5 SHOWN. I AM ASSUMING IT IS TO BE #3?

A27. Reference Sheet A6.0 Door Schedule, Door 106 is to receive frame elevation #3 in lieu of frame #5 as noted. There is no frame #5.

Q28. IN THE HARDWARE SPEC 08710 THERE ARE HARDWARE SETS WRITTEN BUT NONE OF THEM ARE ASSIGNED TO ANY OPENINGS EITHER ON THE DOOR SCHEDULE OR IN THE SPECS. PLEASE UPDATE TO SHOW WHERE THE HARDWARE SETS ARE TO BE USED

A28. Please refer to Item #2 under SPECIFICATIONS below.

Q29. IN SPEC SECTION 10520 FIRE PROTECTION UNDER PART 3, 3.3 IT IS CLEARLY MARKED WHAT IS WANTED FOR FE-1, BUT THERE ARE A COUPLE FE-2 ON THE PLAN AS WELL. WHAT WOULD YOU LIKE FOR FE-2.

A29. Please refer to Item #3 under SPECIFICATIONS below.

Q30A. THERE IS CONFLICTING INFORMATION REGARDING WOOD DOOR VENEER. PART 2.2 OF SPECS SECTION 082111 STATES PLAIN SLICED BIRCH DOORS AND PLAN SHEET A6.0, AND #2 UNDER DOORS NOTES STATES PLAIN SLICED RED OAK. PLEASE ADVISE AND IF THEY ARE TO BE BIRCH WILL THEY BE NATURAL BIRCH OR WHITE BIRCH?

A30A. Specification 08211, 2.2, A, 2.: Provide Plan Sliced Red Oak in lieu of Birch Veneer.

Q30B. ON PLAN SHEET A6.0 THE FRAMES AT 101 SHOW IT IS TO BE A 1 UNDER FRAMES ELEVATIONS, HOWEVER ON A1.0 IT IS DRAWN TO BE A STANDARD FRAME WITH A BORROWED LITE BESIDE IT WITH DRYWALL IN BETWEEN. I'M ASSUMING IT IS TO MATCH THE FRAMES ELEVATION 1 AND IS JUST DRAWN INCORRECTLY?

A30B. Reference Sheet A6.0 Door Schedule, Door 101 is to receive frame elevation #1.

Q30C. ON PLAN SHEET A6.0 THE FRAMES AT 106 SHOWS FRAME ELEVATION 5, HOWEVER THERE ISN'T A NUMBER 5 SHOWN. I'M ASSUMING IT IS TO BE # 3?

A30C. Reference Sheet A6.0 Door Schedule, Door 106 is to receive frame elevation #3 in lieu of frame #5 as noted. There is no frame #5.

Q30D. IN THE HARDWARE SPEC 08710 THERE ARE HARDWARE SETS WRITTEN BUT NONE OF THEM ARE ASSIGNED TO ANY OPENINGS EITHER ON THE DOOR SCHEDULE OR IN THE SPECS. PLEASE UPDATE TO SHOW WHERE THE HARDWARE SETS ARE TO BE USED.

A30D. Please refer to Item #2 under SPECIFICATIONS below.

Q30E. IN SPECS SECTION 10520 FIRE PROTECTION UNDER PART 3, 3.3 IT IS CLEARLY MARKED WHAT IS WANTED FOR FE-1, BUT THERE ARE A COUPLE FE-2 ON THE PLAN AS WELL. WHAT WOULD YOU LIKE FOR FE-2?

A30E. Please refer to Item #3 under SPECIFICATIONS below.

Q31. I SEE THAT THERE ARE HARDWARE SETS PROVIDED IN THE SPECS, BUT NO TAG NUMBERS LISTED OR INDICATIONS ON THE DOOR SCHEDULE.

A31. Please refer to Item #2 under SPECIFICATIONS below.

Q32. ON S2.0 THERE IS A CALLOUT FOR 3/S3.1 SHOWN ON COLUMN 6 BETWEEN ROWS A & B IN THE TRUCK PARKING. HOWEVER 3/S3.1 IS AN EXTERIOR WALL DETAIL. PLEASE ADVISE

A32. Section cut 3/S3.1 shown on column grid 6 between grids 'A' and 'B' is not applicable and should be disregarded.

Q33. SPECIFICATION SECTION 04222.2.1.A CALLS FOR THE UTILITY BRICK COLOR(S) TO BE DETERMINED. REVIEWING THE DRAWINGS AND VIEWING EXISTING COUNTY FIRE STATIONS OF SIMILAR DESIGN SUGGESTS THAT MULTIPLE COLORS WILL BE UTILIZED. WE RECOMMEND UTILIZING AN ALLOWANCE FOR THE BRICK MATERIAL TO ALLOW FOR VARIATIONS IN COST BETWEEN DIFFERENT COLORS.

A33. Please refer to Item #1 under SPECIFICATIONS below.

Q34A. SPECIFY UNIFORM COLLATERAL LOAD.

A34A. Please provide 10 PSF collateral load allowance in roof framing design.

Q34B. PLEASE DIMENSION PEMB EAVE (TOP OF EAVE STRUT).

A34B. Refer to the revised Sheet A3.2 (attached herewith) Detail 4/A3.2.

Q34C. FOR THE BASE BID, ARE PEMB WALL GIRTS REQUIRED AT FRAME LINE 7 WHERE PEMB VERTICAL EXTERIOR WALL PANELS ARE TO BE INSTALLED OR IS THE INTENT FOR THE VERTICAL EXTERIOR WALL PANELS TO ATTACH OVER STUDS PER WALL LEGEND 5?

A34C. Refer to revised Sheet A2.1, Details 1/A2.1 & 2/A2.1 - Wall Sections have been indicated at column line 7 between E and A. These same wall section tags apply to Alternate #1 also.

Q34D. WILL ANY FIRE WALL LOADS BE APPLIED TO THE PEMB RAFTER AT FRAME LINE 4? IF SO PLEASE SPECIFY.

A34D. Yes, see Sheet S3.0, Detail 1/S3.0.

Q35A. NEED WALL SECTIONS AND DETAILS ALONG COLUMN LINES 1 AND ALONG COLUMN LINE 7 (COLUMN LINE 8 FOR ALT 1). WALL LEGEND DETAILS DO NOT MATCH WALL SECTION DETAILS AND THEY ALSO DO NOT MATCH THE STRUCTURAL DETAILS FOR METAL STUD FRAMING VERSUS PEMB STRUCTURE AND SUBSTRATES ON THESE WALLS. I MAINLY NEED THE DETAILS AT THESE COLUMN LINES BETWEEN COLUMN LINES E AND F. HOWEVER, ON A1.0 COLUMN LINE 7 BETWEEN E AND A THE WALL TAG SHOWS 5(SIM) BUT ON A1.1 ON COLUMN LINE 8 IT SHOWS WALL TAG AS 2.

A35A. Refer to Sheet A1.0 - omit wall tag 5(sim) at column line 8.

Refer to Sheet A1.0 - wall tag 2 is correct. Reference building Section 2/A3.1 and wall Section 3/A3.2.

Refer to revised Sheet A2.1, Details 1/A2.1 & 2/A2.1 - Wall Sections have been indicated at column line 7 between E and A. These same wall section tags apply to Alternate #1 also.

Q35B. NEED TO KNOW WHERE PEMB FRAMING AND PANELS END AND WHERE METAL STUD FRAMING AND SHEATHING BEGINS. ARE ALL INTERIOR PARTITION AND FURRING FRAMING TO BE 18GA METAL PER THE STRUCTURAL DETAILS?

A35B. Transition from metal stud exterior wall framing to wall girt framing occurs as follows: on Gridline 1, metal stud framing extends 5'-0" from gridline 'E' towards 'D' and, on gridline 7, metal stud framing extends 29'-0" from gridline 'F' towards gridline 'E'. Interior partition and furring framing may be 20ga, minimum.

Q36. PLEASE CONFIRM THAT THE FIRE LINE TO THE PROPOSED BUILDING IS TO BE A 6" C900 PVC. THERE ARE TWO PLAN SHEETS, (NOT UTILITY PLAN) THAT SHOW A 4" FIRE LINE TO THE BUILDING.

A36. Fire water service is to be a 6" C900 PVC line. Revised Sheet C4.2 (attached herewith) to reflect 6" fire water service.

Q37. WILL THE 6" FIRE LINE ENTERING THE PROPOSED NEW BUILDING REQUIRE A 6" SS FIRE RISER ASSY.? THIS IS NOT SHOWN ON THE PLANS.

A37. This cannot be determined until the Fire Sprinkler Contractor performs the calculations.

SPECIFICATIONS

1. SECTION 04222 – BRICK MASONRY UNITS

   A. Contractor's attention is directed to 2.1, A. 3. Contractor is advised to omit this item in its entirety and replace with the following:

      "B. Brick veneer shall be a utility, "Palmetto Brick" #R-976102 Gray Utility for all field brick and #R-973902 Pink Utility for all accent brick as distributed through Waccamaw Brick Company or pre-approved equivalent. Final brick colors to be approved by the owner and Architect."

2. SECTION 08710 – DOOR HARWARE

   A. Contractor's attention is directed to SECTION 08710 – DOOR HARDWARE. Contractor is advised to omit this section in its entirety and replace with SECTION 08710 – DOOR HARDWARE (attached herewith) consisting of 18 pages for a revised HARDWARE SCHEDULE to indicate door numbers.

3. SECTION 10520 – FIRE PROTECTION SPECIALTIES

   A. Contractor's attention is directed to item 3.3. Contractor is advised to omit this item in its entirety and replace with the following:

      "3.3 FIRE-PROTECTION CABINET SCHEDULE

      A. FE-1: Larsen's Architectural Series, aluminum, semi-recessed with rolled edge, full glass, tempered safety glass with Larsen-Loc option. Model AL2409-6R. Cabinet to have vertical letters "FIRE EXTINGUISHER". Furnish with MP10 multi-purpose dry chemical fire extinguisher.

      B. FE-2: Furnish with MP10 multi-purpose dry chemical fire extinguisher and wall-mounted hanging bracket."

DRAWINGS

1. SHEET A2.1 – ELEVATIONS BASE BID AND ALTERNATE #1

   A. Contractor's attention is directed to SHEET A2.1 – ELEVATIONS BASE BID AND ALTERNATE #1. Contractor is advised to omit this sheet in its entirety and replace with SHEET A2.1 – ELEVATIONS BASE BID AND ALTERNATE #1 (attached herewith) consisting of 1 page dated May 22, 2025 for wall sections at Details 1/A2.1 and 2/A2.1.

2. SHEET A3.2 – WALL SECTIONS

   A. Contractor's attention is directed to SHEET A3.2 – WALL SECTIONS. Contractor is advised to omit this sheet in its entirety and replace with SHEET A3.2 – WALL SECTIONS (attached herewith) consisting of 1 page dated May 22, 2025 for revisions to Details 3/A3.2 and 4/A3.2.

3. SHEET C4.2 – SWPPP STABILIZATION PHASE PLAN

   A. Contractor's attention is directed to SHEET C4.2 – SWPPP STABILIZATION PHASE PLAN. Contractor is advised to omit this sheet in its entirety and replace with SHEET C4.2 – SWPPP STABILIZATION PHASE PLAN (attached herewith) consisting of 1 page dated May 22, 2025 for clarification on the fire water service line.

4. SHEET P4.0 – SCHEDULES, NOTES, LEGEND AND DETAILS

   A. Contractor's attention is directed to Schedule of Plumbing Fixtures & Specialty Equipment, Fixture P-3. Contractor is advised to omit this fixture in its entirety and replace with Fixture P-3 as shown in Sketch No. P1 (attached herewith) consisting of 1 paged dated 05-22-25. For clarification, the CAD drawing layer was inadvertently turned off so information was not shown.

APPROVED EQUIVALENTS

The following manufacturers have been approved as equivalents.

LIGHT FIXTURES
Please see "Table of Contents" (attached herewith) consisting of 1 page, for the Light Fixtures, Manufacturer and Model number that have been approved as an equivalent as submitted by Sesco Lighting.

SECTION 08114 (CUSTOM STEEL DOORS AND FRAMES)	Hollow Metal Doors and Frames as submitted by De La Fontaine Industries
SECTION 10505 (GEAR METAL LOCKERS)	LockersMFG Gear Metal Lockers as submitted by Lockers Manufacturing

END OF ADDENDUM NO. 7

SECTION 08710 - DOOR HARDWARE

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes:

1. Mechanical and electrified door hardware

B. Section excludes:

1. Windows
2. Cabinets (casework), including locks in cabinets
3. Signage
4. Toilet accessories
5. Overhead doors

C. Related Sections:

1. Division 01 Section "Alternates" for alternates affecting this section.
2. Division 06 Section "Rough Carpentry"
3. Division 06 Section "Finish Carpentry"
4. Division 07 Section "Joint Sealants" for sealant requirements applicable to threshold installation specified in this section.
5. Division 08 Sections:

a. "Metal Doors and Frames"
b. "Flush Wood Doors"
c. "Stile and Rail Wood Doors"
d. "Interior Aluminum Doors and Frames"
e. "Aluminum-Framed Entrances and Storefronts"
f. "Stainless Steel Doors and Frames"
g. "Special Function Doors"
h. "Entrances"

1.2 REFERENCES

A. UL LLC

1. UL 10B - Fire Test of Door Assemblies
2. UL 10C - Positive Pressure Test of Fire Door Assemblies
3. UL 1784 - Air Leakage Tests of Door Assemblies
4. UL 305 - Panic Hardware

B. DHI - Door and Hardware Institute

1. Sequence and Format for the Hardware Schedule
2. Recommended Locations for Builders Hardware
3. Keying Systems and Nomenclature
4. Installation Guide for Doors and Hardware

C. NFPA – National Fire Protection Association

1. NFPA 80 – 2016 Edition – Standard for Fire Doors and Other Opening Protectives
2. NFPA 101 – Life Safety Code
3. NFPA 105 – Smoke and Draft Control Door Assemblies
4. NFPA 252 – Fire Tests of Door Assemblies

D. ANSI - American National Standards Institute

1. ANSI A117.1 – 2017 Edition – Accessible and Usable Buildings and Facilities
2. ANSI/BHMA A156.1 - A156.29, and ANSI/BHMA A156.31 - Standards for Hardware and Specialties
3. ANSI/BHMA A156.28 - Recommended Practices for Keying Systems
4. ANSI/WDMA I.S. 1A - Interior Architectural Wood Flush Doors
5. ANSI/SDI A250.8 - Standard Steel Doors and Frames

1.3 SUBMITTALS

A. General:

1. Submit in accordance with Conditions of Contract and Division 01 Submittal Procedures.
2. Prior to forwarding submittal:

a. Review drawings and Sections from related trades to verify compatibility with specified hardware.
b. Highlight, encircle, or otherwise specifically identify on submittals: deviations from Contract Documents, issues of incompatibility or other issues which may detrimentally affect the Work.

B. Action Submittals:

1. Product Data: Submit technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.
2. Samples for Verification: If requested by Architect, submit production sample of requested door hardware unit in finish indicated and tagged with full description for coordination with schedule.

a. Samples will be returned to supplier. Units that are acceptable to Architect may, after final check of operations, be incorporated into Work, within limitations of key coordination requirements.

3. Door Hardware Schedule:

a. Submit concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate fabrication of other work critical in Project construction schedule.
b. Submit under direct supervision of a Door Hardware Institute (DHI) certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) with hardware sets in vertical format as illustrated by Sequence of Format for the Hardware Schedule published by DHI.
c. Indicate complete designations of each item required for each opening, include:

1) Door Index: door number, heading number, and Architect's hardware set number.
2) Quantity, type, style, function, size, and finish of each hardware item.
3) Name and manufacturer of each item.
4) Fastenings and other pertinent information.

5) Location of each hardware set cross-referenced to indications on Drawings.
6) Explanation of all abbreviations, symbols, and codes contained in schedule.
7) Mounting locations for hardware.
8) Door and frame sizes and materials.
9) Degree of door swing and handing.

4. Key Schedule:

a. After Keying Conference, provide keying schedule that includes levels of keying, explanations of key system's function, key symbols used, and door numbers controlled.
b. Use ANSI/BHMA A156.28 "Recommended Practices for Keying Systems" as guideline for nomenclature, definitions, and approach for selecting optimal keying system.
c. Provide 3 copies of keying schedule for review prepared and detailed in accordance with referenced DHI publication. Include schematic keying diagram and index each key to unique door designations.
d. Index keying schedule by door number, keyset, hardware heading number, cross keying instructions, and special key stamping instructions.
e. Provide one complete bitting list of key cuts and one key system schematic illustrating system usage and expansion. Forward bitting list, key cuts and key system schematic directly to Owner, by means as directed by Owner.
f. Prepare key schedule by or under supervision of supplier, detailing Owner's final keying instructions for locks.

C. Informational Submittals:

1. Provide Qualification Data for Supplier, Installer and Architectural Hardware Consultant.
2. Provide Product Data:

a. Certify that door hardware approved for use on types and sizes of labeled fire-rated doors complies with listed fire-rated door assemblies.
b. Include warranties for specified door hardware.

D. Closeout Submittals:

1. Operations and Maintenance Data: Provide in accordance with Division 01 and include:

a. Complete information on care, maintenance, and adjustment; data on repair and replacement parts, and information on preservation of finishes.
b. Catalog pages for each product.
c. Final approved hardware schedule edited to reflect conditions as installed.
d. Final keying schedule
e. Copy of warranties including appropriate reference numbers for manufacturers to identify project.

E. Inspection and Testing:
1. Submit written reports to the Owner and Authority Having Jurisdiction (AHJ) of the results of functional testing and inspection for:

a. Fire door assemblies, in compliance with NFPA 80.
b. Required egress door assemblies, in compliance with NFPA 101.

1.4 QUALITY ASSURANCE

A. Qualifications and Responsibilities:

1. Supplier: Recognized architectural hardware supplier with a minimum of 5 years documented experience supplying both mechanical and electromechanical door hardware similar in quantity, type, and quality to that indicated for this Project. Supplier to be recognized as a factory direct distributor by the manufacturer of the primary materials with a warehousing facility in the Project's vicinity. Supplier to have on staff, a certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) available to Owner, Architect, and Contractor, at reasonable times during the Work for consultation.
2. Installer: Qualified tradesperson skilled in the application of commercial grade hardware with experience installing door hardware similar in quantity, type, and quality as indicated for this Project.
3. Architectural Hardware Consultant: Person who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project and meets these requirements:

    a. For door hardware: DHI certified AHC or DHC.
    b. Can provide installation and technical data to Architect and other related subcontractors.
    c. Can inspect and verify components are in working order upon completion of installation.

4. Single Source Responsibility: Obtain each type of door hardware from single manufacturer.

B. Certifications:

1. Fire-Rated Door Openings:

    a. Provide door hardware for fire-rated openings that complies with NFPA 80 and requirements of authorities having jurisdiction.
    b. Provide only items of door hardware that are listed products tested by UL LLC, Intertek Testing Services, or other testing and inspecting organizations acceptable to authorities having jurisdiction for use on types and sizes of doors indicated, based on testing at positive pressure and according to NFPA 252 or UL 10C and in compliance with requirements of fire-rated door and door frame labels.

2. Smoke and Draft Control Door Assemblies:

    a. Provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105
    b. Comply with the maximum air leakage of 0.3 cfm/sq. ft. (3 cu. m per minute/sq. m) at tested pressure differential of 0.3-inch wg (75 Pa) of water.
3. Accessibility Requirements:

    a. Comply with governing accessibility regulations cited in "REFERENCES" article 087100, 1.02.D3 herein for door hardware on doors in an accessible route. This project must comply with all Federal Americans with Disability Act regulations and all Local Accessibility Regulations.

C. Pre-Installation Meetings

1. Keying Conference

    a. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including:

        1) Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.

2) Preliminary key system schematic diagram.
3) Address for delivery of keys.

2. Pre-installation Conference

a. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
b. Inspect and discuss preparatory work performed by other trades.
c. Review required testing, inspecting, and certifying procedures.
d. Review questions or concerns related to proper installation and adjustment of door hardware.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up for hardware delivered to Project site. Promptly replace products damaged during shipping.

B. Tag each item or package separately with identification coordinated with final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package. Deliver each article of hardware in manufacturer's original packaging.

C. Maintain manufacturer-recommended environmental conditions throughout storage and installation periods.

D. Provide secure lock-up for door hardware delivered to Project. Control handling and installation of hardware items so that completion of Work will not be delayed by hardware losses both before and after installation.

E. Handle hardware in manner to avoid damage, marring, or scratching. Correct, replace or repair products damaged during Work. Protect products against malfunction due to paint, solvent, cleanser, or any chemical agent.

F. Deliver keys to manufacturer of key control system for subsequent delivery to Owner.

1.6 COORDINATION\

A. Coordinate layout and installation of floor-recessed door hardware with floor construction. Cast anchoring inserts into concrete.

B. Installation Templates: Distribute for doors, frames, and other work specified to be factory or shop prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.

1.7 WARRANTY

A. Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within published warranty period.

1. Warranty does not cover damage or faulty operation due to improper installation, improper use or abuse.
2. Warranty Period: Beginning from date of Substantial Completion, for durations indicated in manufacturer's published listings.

a. Mechanical Warranty

1) Locks

a) Best Cylindrical: 3 Year

2) Exit Devices

a) Von Duprin: 3 years

3) Closers

a) LCN 4050 Series: 25 years
b) LCN 1450 Series: 25 years

4) Automatic Operators

a) LCN: 2 years

1.8 MAINTENANCE

A. Furnish complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.

B. Turn over unused materials to Owner for maintenance purposes.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Approval of alternate manufacturers and/or products other than those listed as "Scheduled Manufacturer" or "Acceptable Manufacturers" in the individual article for the product category are only to be considered by official substitution request in accordance with section 01 25 00.

B. Approval of products from manufacturers indicated in "Acceptable Manufacturers" is contingent upon those products providing all functions and features and meeting all requirements of scheduled manufacturer's product.

C. Where specified hardware is not adaptable to finished shape or size of members requiring hardware, furnish suitable types having same operation and quality as type specified, subject to Architect's approval.

2.2 MATERIALS

A. Fabrication

1. Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. provide screws according to manufacturer’s recognized installation standards for application intended.
2. Finish exposed screws to match hardware finish, or, if exposed in surfaces of other work, to match finish of this other work including prepared for paint surfaces to receive painted finish.
3. Provide concealed fasteners wherever possible for hardware units exposed when door is closed. Coordinate with “Metal Doors and Frames”, “Flush Wood Doors”, “Stile and Rail Wood Doors” to ensure proper reinforcements. Advise the Architect where visible fasteners, such as thru bolts, are required.

B. Provide screws, bolts, expansion shields, drop plates and other devices necessary for hardware installation.

1. Where fasteners are exposed to view: Finish to match adjacent door hardware material.

2.3 HINGES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:

a. Ives 5BB series

2. Acceptable Manufacturers and Products:

a. Hager BB1191/1279 series
b. McKinney TB series

B. Requirements:

1. Provide hinges conforming to ANSI/BHMA A156.1.
2. Provide five knuckle, ball bearing hinges.
3. 1-3/4 inch (44 mm) thick doors, up to and including 36 inches (914 mm) wide:

a. Exterior: Standard weight, bronze or stainless steel, 4-1/2 inches (114 mm) high
b. Interior: Standard weight, steel, 4-1/2 inches (114 mm) high

4. 1-3/4 inch (44 mm) thick doors over 36 inches (914 mm) wide:

a. Exterior: Heavy weight, bronze/stainless steel, 5 inches (127 mm) high
b. Interior: Heavy weight, steel, 5 inches (127 mm) high

5. 2 inches or thicker doors:

a. Exterior: Heavy weight, bronze or stainless steel, 5 inches (127 mm) high
b. Interior: Heavy weight, steel, 5 inches (127 mm) high

6. Adjust hinge width for door, frame, and wall conditions to allow proper degree of opening.
7. Provide three hinges per door leaf for doors 90 inches (2286 mm) or less in height, and one additional hinge for each 30 inches (762 mm) of additional door height.
8. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:

a. Steel Hinges: Steel pins
b. Non-Ferrous Hinges: Stainless steel pins
c. Out-Swinging Exterior Doors: Non-removable pins
d. Out-Swinging Interior Lockable Doors: Non-removable pins
e. Interior Non-lockable Doors: Non-rising pins

2.4 CYLINDRICAL LOCKS – GRADE 1

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:

a. Best 9k Series

2. Acceptable Manufacturers and Products:

a. No Substitute

B. Requirements:

1. Provide cylindrical locks conforming to ANSI/BHMA A156.2 Series 4000, Grade 1, and UL Listed for 3-hour fire doors.
2. Cylinders: Refer to "KEYING" article, herein.
3. Provide locks with standard 2-3/4 inches (70 mm) backset, unless noted otherwise, with 1/2-inch latch throw. Provide proper latch throw for UL listing at pairs.
4. Provide locksets with separate anti-rotation thru-bolts, and no exposed screws.
5. Provide independently operating levers with two external return spring cassettes mounted under roses to prevent lever sag.
6. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
7. Provide electrified options as scheduled in the hardware sets.
8. Lever Trim: Solid cast levers without plastic inserts and wrought roses on both sides.

a. Provide levers that return to within 1/2 inch (13 mm) of door face.
b. Vandlgard: Provide levers with vandal resistant technology for use at heavy traffic or abusive applications.

2.5 CYLINDERS

A. Manufacturers:

1. Scheduled Manufacturer and Product:

a. AS REQUIRED TO MATCH EXISTING

2. Acceptable Manufacturers and Products:

B. Requirements:

1. Provide cylinders/cores to match Owner’s existing key system, compliant with ANSI/BHMA A156.5; latest revision; cylinder face finished to match lockset, manufacturer’s series as indicated. Refer to “KEYING” article, herein.

2.6 KEYING

A. Scheduled System:

1. Existing factory registered system:

a. Provide cylinders/cores keyed into Owner’s existing factory registered keying system. Comply with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference.

B. Requirements:

1. Construction Keying:

a. Replaceable Construction Cores.

1) Provide temporary construction cores replaceable by permanent cores, furnished in accordance with the following requirements.

a) 3 construction control keys
b) 12 construction change (day) keys.

2) Owner or Owner's Representative will replace temporary construction cores with permanent cores.

2. Permanent Keying:

a. Provide permanent cylinders/cores keyed by the manufacturer according to the following key system.

1) Master Keying system as directed by the Owner.

b. Forward bitting list and keys separately from cylinders, by means as directed by Owner. Failure to comply with forwarding requirements will be cause for replacement of cylinders/cores involved at no additional cost to Owner.
c. Provide keys with the following features:

1) Material: Nickel silver; minimum thickness of .107-inch (2.3mm)
2) Patent Protection: Keys and blanks protected by one or more utility patent(s).

d. Identification:

1) Mark permanent cylinders/cores and keys with applicable blind code for identification. Do not provide blind code marks with actual key cuts.
2) Identification stamping provisions must be approved by the Architect and Owner.
3) Stamp cylinders/cores and keys with Owner's unique key system facility code as established by the manufacturer; key symbol and embossed or stamped with "DO NOT DUPLICATE" along with the "PATENTED" or patent number to enforce the patent protection.
4) Failure to comply with stamping requirements will be cause for replacement of keys involved at no additional cost to Owner.
5) Forward permanent cylinders/cores to Owner, separately from keys, by means as directed by Owner.

e. Quantity: Furnish in the following quantities.

1) Change (Day) Keys: 3 per cylinder/core.
2) Permanent Control Keys: 3.
3) Master Keys: 6.

2.7 DOOR CLOSERS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:

a. LCN 4050A series

2. Acceptable Manufacturers and Products:

    a. Falcon SC70A series
    b. Sargent 351 series

B. Requirements:

1. Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory. ISO 9000 certify closers. Stamp units with date of manufacture code.
2. Provide door closers with fully hydraulic, full rack and pinion action with cast aluminum cylinder.
3. Closer Body: 1-1/2-inch (38 mm) diameter with 11/16-inch (17 mm) diameter heat-treated pinion journal and full complement bearings.
4. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and all weather requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
5. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards.
6. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and back check.
7. Pressure Relief Valve (PRV) Technology: Not permitted.
8. Provide stick on templates, special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.

2.8 DOOR CLOSERS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:

    a. LCN 1450 series

2. Acceptable Manufacturers and Products:

    a. Falcon SC80A series
    b. Sargent 1331 series

B. Requirements:

1. Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory.
2. Provide door closers with fully hydraulic, full rack and pinion action with cast aluminum cylinder.
3. Closer Body: 1-3/8-inch (35 mm) diameter with 5/8-inch (16 mm) diameter pinion journal diameter heat-treated pinion journal and full complement bearings.
4. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
5. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards.
6. Pressure Relief Valve (PRV) Technology: Not permitted.
7. Provide stick on and special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.

2.9 PROTECTION PLATES

A. Manufacturers:

1. Scheduled Manufacturer:

   a. Ives

2. Acceptable Manufacturers:

   a. Burns
   b. Trimco

B. Requirements:

1. Provide protection plates with a minimum of 0.050 inch (1 mm) thick, beveled four edges as scheduled. Furnish with sheet metal or wood screws, finished to match plates.
2. Sizes plates 2 inches (51 mm) less width of door on single doors, pairs of doors with a mullion, and doors with edge guards. Size plates 1 inch (25 mm) less width of door on pairs without a mullion or edge guards.
3. At fire rated doors, provide protection plates over 16 inches high with UL label.

2.10 OVERHEAD STOPS AND OVERHEAD STOP/HOLDERS

A. Manufacturers:

1. Scheduled Manufacturers:

   a. Glynn-Johnson

2. Acceptable Manufacturers:

   a. Rixson
   b. Sargent
   c. ABH

B. Requirements:

1. Provide overhead stop at any door where conditions do not allow for a wall stop or floor stop presents tripping hazard.
2. Provide friction type at doors without closer and positive type at doors with closer.

2.11 DOOR STOPS AND HOLDERS

A. Manufacturers:

1. Scheduled Manufacturer:

   a. Ives

2. Acceptable Manufacturers:

   a. Burns
   b. Trimco

c. Rockwood

B. Provide door stops at each door leaf:

1. Provide wall stops wherever possible. Provide concave type where lockset has a push button of thumbturn.
2. Where a wall stop cannot be used, provide universal floor stops.
3. Where wall or floor stop cannot be used, provide overhead stop.
4. Provide roller bumper where doors open into each other and overhead stop cannot be used.

2.12 THRESHOLDS, SEALS, DOOR SWEEPS, AUTOMATIC DOOR BOTTOMS, AND GASKETING

A. Manufacturers:

1. Scheduled Manufacturer:
   a. Zero International
2. Acceptable Manufacturers:

   a. National Guard
   b. Reese
   c. DHSI
   d. Legacy
   e. Pemko

B. Requirements:

1. Provide thresholds, weather-stripping, and gasketing systems as specified and per architectural details. Match finish of other items.
2. Smoke- and Draft-Control Door Assemblies: Where smoke- and draft-control door assemblies are required, provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105.
3. Provide door sweeps, seals, astragals, and auto door bottoms only of type where resilient or flexible seal strip is easily replaceable and readily available.
4. Size thresholds 1/2 inch (13 mm) high by 5 inches (127 mm) wide by door width unless otherwise specified in the hardware sets or detailed in the drawings.

2.13 SILENCERS

A. Manufacturers:

1. Scheduled Manufacturer:

   a. Ives

2. Acceptable Manufacturers:

   a. Burns
   b. Rockwood
   c. Trimco

B. Requirements:

1. Provide "push-in" type silencers for hollow metal or wood frames.

2. Provide one silencer per 30 inches (762 mm) of height on each single frame, and two for each pair frame.
3. Omit where gasketing is specified.

2.14 FINISHES

A. FINISH: BHMA 626/652 (US26D); EXCEPT:

1. Hinges at Exterior Doors: BHMA 630 (US32D)
2. Aluminum Geared Continuous Hinges: BHMA 628 (US28)
3. Push Plates, Pulls, and Push Bars: BHMA 630 (US32D)
4. Protection Plates: BHMA 630 (US32D)
5. Overhead Stops and Holders: BHMA 630 (US32D)
6. Door Closers: Powder Coat to Match
7. Wall Stops: BHMA 630 (US32D)
8. Latch Protectors: BHMA 630 (US32D)
9. Weatherstripping: Clear Anodized Aluminum
10. Thresholds: Mill Finish Aluminum

PART 3 - EXECUTION

3.1 EXAMINATION

A. Prior to installation of hardware, examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance. Verify doors, frames, and walls have been properly reinforced for hardware installation.

B. Submit a list of deficiencies in writing and proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Mount door hardware units at heights to comply with the following, unless otherwise indicated or required to comply with governing regulations.

1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
2. Custom Steel Doors and Frames: HMMA 831.
3. Interior Architectural Wood Flush Doors: ANSI/WDMA I.S. 1A
4. Installation Guide for Doors and Hardware: DHI TDH-007-20

B. Install door hardware in accordance with NFPA 80, NFPA 101 and provide post-install inspection, testing as specified in section 1.03.E unless otherwise required to comply with governing regulations.

C. Install each hardware item in compliance with manufacturer's instructions and recommendations, using only fasteners provided by manufacturer.

D. Do not install surface mounted items until finishes have been completed on substrate. Protect all installed hardware during painting.

E. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as necessary for proper installation and operation.

F. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.

G. Install operating parts so they move freely and smoothly without binding, sticking, or excessive clearance.

H. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than quantity recommended by manufacturer for application indicated.

I. Lock Cylinders:

1. Install construction cores to secure building and areas during construction period.
2. Replace construction cores with permanent cores as indicated in keying section.\

J. Door Closers: Mount closers on room side of corridor doors, inside of exterior doors, and stair side of stairway doors from corridors. Mount closers so they are not visible in corridors, lobbies and other public spaces unless approved by Architect.

K. Thresholds: Set thresholds in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."

L. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they may impede traffic or present tripping hazard.

M. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.

N. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.

O. Door Bottoms and Sweeps: Apply to bottom of door, forming seal with threshold when door is closed.

3.3 ADJUSTING

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

1. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.

B. Occupancy Adjustment: Approximately three to six months after date of Substantial Completion, examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors and door hardware.

3.4 CLEANING AND PROTECTION

A. Clean adjacent surfaces soiled by door hardware installation.

B. Clean operating items per manufacturer's instructions to restore proper function and finish.

C. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Substantial Completion.

3.5 DOOR HARDWARE SCHEDULE

A. The intent of the hardware specification is to specify the hardware for interior and exterior doors, and to establish a type, continuity, and standard of quality. However, it is the door hardware supplier's responsibility to thoroughly review existing conditions, schedules, specifications, drawings, and other Contract Documents to verify the suitability of the hardware specified.

B. Discrepancies, conflicting hardware, and missing items are to be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application.

C. Hardware items are referenced in the following hardware schedule. Refer to the above specifications for special features, options, cylinders/keying, and other requirements.

D. Hardware Sets:

HW SET: 00 (DOORS 122, 123, 124, 127, 128, 129)

1			HARDWARE BY DOOR / FRAME MANUFACTURER			

HW SET: 01 (DOORS 106, 114, 125, 126, 130)

3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP		630	IVE
1	EA	KEYPAD LOCK WITH KEY OVERRIDE	45HZ7TV15KG		626	BES
1	EA	LOCK GUARD	LG12		630	IVE
1	EA	SURFACE CLOSER	4050A SCUSH		689	LCN
1	EA	KICK PLATE	8400 8" X 2" LDW B-CS		630	IVE
1	EA	RAIN DRIP	142AA		AA	ZER
1	EA	GASKETING	188SBK PSA		BK	ZER
1	EA	DOOR SWEEP	8197AA		AA	ZER
1	EA	THRESHOLD	655A-223		A	ZER

HW SET: 02 (DOORS 115, 117)

3	EA	HINGE	5BB1 4.5 X 4.5		652	IVE
1	EA	PASSAGE SET	73KC N 15D		630	BES
1	EA	SURFACE CLOSER	4050A EDA		689	LCN
1	EA	KICK PLATE	8400 8" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS406/407CCV		630	IVE
1	EA	GASKETING	488SBK PSA		BK	ZER

HW SET: 03 (DOORS 103, 104)

3	EA	HINGE	5BB1 4.5 X 4.5		652	IVE
1	EA	ENTRY LOCK	73KC AB 15D		630	BES
1	EA	WALL STOP	WS406/407CCV		630	IVE
3	EA	SILENCER	SR64		GRY	IVE

HW SET: 04 (DOORS 102)

3	EA	HINGE	5BB1 4.5 X 4.5		652	IVE
1	EA	CLASSROOM LOCK	73KC R 15D		630	BES
1	EA	OH STOP	90S		630	GLY
3	EA	SILENCER	SR64		GRY	IVE

HW SET: 05 - Not Used

3	EA	HINGE	5BB1 4.5 X 4.5		652	IVE
1	EA	SURFACE CLOSER	4050A EDA		689	LCN
1	EA	KICK PLATE	8400 8" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS406/407CCV		630	IVE
1	EA	GASKETING	488SBK PSA		BK	ZER

HW SET: 06 (DOORS 107, 108, 111, 112, 113)

3	EA	HINGE	5BB1 4.5 X 4.5		652	IVE
1	EA	PRIVACY LOCK	73KC L 15D		630	BES
1	EA	WALL STOP	WS406/407CCV		630	IVE
3	EA	SILENCER	SR64		GRY	IVE

HW SET: 07 (DOORS 105, 109)

3	EA	HINGE	5BB1 4.5 X 4.5		652	IVE
1	EA	CLASSROOM LOCK	73KC R 15D		630	BES
1	EA	SURFACE CLOSER	4050A EDA		689	LCN
1	EA	KICK PLATE	8400 8" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS406/407CCV		630	IVE
1	EA	GASKETING	488SBK PSA		BK	ZER

HW SET: 08 (DOORS 110)

3	EA	HINGE	5BB1 4.5 X 4.5		652	IVE
1	EA	PASSAGE SET	73KC N 15D		630	BES
1	EA	WALL STOP	WS406/407CCV		630	IVE
3	EA	SILENCER	SR64		GRY	IVE

HW SET: 09 (DOORS 116)

3	EA	HINGE	5BB1 4.5 X 4.5		652	IVE
1	EA	PASSAGE SET	73KC N 15D		630	BES
1	EA	OH STOP	90S		630	GLY
3	EA	SILENCER	SR64		GRY	IVE

HW SET: 10 (DOORS 118, 121)

3	EA	HINGE	5BB1 4.5 X 4.5		652	IVE
1	EA	KEYPAD LOCK WITH KEY OVERRIDE	45HZ7TV15KG		626	BES
1	EA	SURFACE CLOSER	4050A EDA		689	LCN
1	EA	KICK PLATE	8400 8" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS406/407CCV		630	IVE
1	EA	GASKETING	188SBK PSA		BK	ZER
1	EA	DOOR SWEEP	39A		A	ZER
1	EA	THRESHOLD	545A		A	ZER

HW SET: 11 (DOORS 101)

3	EA	HINGE	5BB1 4.5 X 4.5		652	IVE
1	EA	PUSH/PULL BAR	9190-NO-10"		630	IVE
1	EA	SURFACE CLOSER	4050A EDA		689	LCN
1	EA	KICK PLATE	8400 8" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS406/407CCV		630	IVE
1	EA	GASKETING	488SBK PSA		BK	ZER
1	EA	DOOR SWEEP	39A		A	ZER
1	EA	THRESHOLD	545A		A	ZER

HW SET: 12 (DOORS 100)

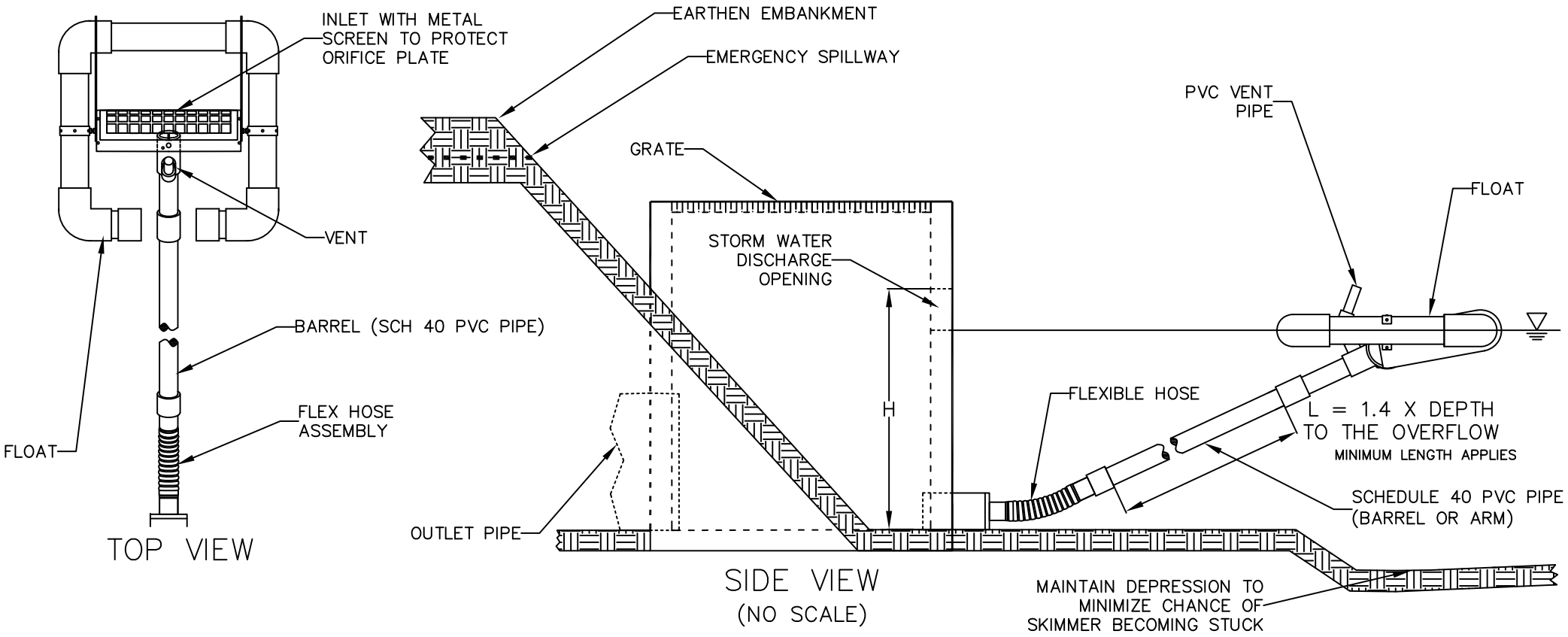
1	EA	CONT. HINGE	112XY EPT		628	IVE
1	EA	POWER TRANSFER	EPT10		689	VON
1	EA	ELEC PANIC HARDWARE	QEL-98-NL-OP-110MD 24 VDC		626	VON
1	EA	RIM CYLINDER	1E72		626	BES
1	EA	90 DEG OFFSET PULL	8190EZHD 10" O		630-316	IVE
1	EA	SURFACE CLOSER	4050A SCUSH		689	LCN
1	EA	KICK PLATE	8400 8" X 2" LDW B-CS		630	IVE
1	EA	RAIN DRIP	142AA		AA	ZER
1	EA	GASKETING	188SBK PSA		BK	ZER
1	EA	DOOR SWEEP	8197AA		AA	ZER
1	EA	THRESHOLD	655A-223		A	ZER
1			CARD READER - WORK OF DIVISION 28			
1			POWER SUPPLY - WORK OF DIVISION 28			

DOOR(S) NORMALLY CLOSED AND LOCKED. VALID CREDENTIAL WILL MOMENTARILY UNLOCK. DOOR(S) WILL REMAIN LOCKED ON LOSS OF POWER. FREE EGRESS AT ALL TIMES.

HW SET: 13 (DOORS 119, 120)

3	EA	HINGE	5BB1 4.5 X 4.5		652	IVE
1	EA	STOREROOM LOCK	73KC D 15D		630	BES
1	EA	SURFACE CLOSER	4050 REG		689	LCN
1	EA	KICK PLATE	8400 8" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS406/407CCV		630	IVE
1	EA	GASKETING	188SBK PSA		BK	ZER

END OF SECTION 08710



23095 FINKLEA FS #6					
Name	**Skimmer Size**	**Orifice Dia.**	**Orifice RAD**	**Required Basin Volume**	**Days to Drain**
POND 1	4"	2 15/16"	1 1/2"	33700	3

GENERAL NOTES:

1. FAIRCLOTH SKIMMER® FLOW RATES WERE USED AS THE BASIS OF DESIGN WHEN DETERMINING DRAINAGE CALCULATIONS. UTILIZING A PRODUCT FROM AN ALTERNATIVE MANUFACTURER WILL CREATE A SIGNIFICANT DEVIATION TO THE DESIGN AND MUST BE APPROVED AND RECALCULATED BY THE DESIGN ENGINEER.
2. PROPER ORIFICE OPENING MUST BE SELECTED TO ENSURE POND DRAINS IN CORRECT AMOUNT OF TIME. MODIFICATIONS MAY BE REQUIRED IF FIELD CONDITIONS WARRANT A CHANGE.
3. BARREL PIPE SHOULD BE 1.4 X DEPTH OF THE BASIN TO ENSURE PROPER FUNCTION.

DRAWN BY T. R. EVANS 08/24

FAIRCLOTH SKIMMER® DISCHARGE SYSTEM WITH OUTLET STRUCTURE

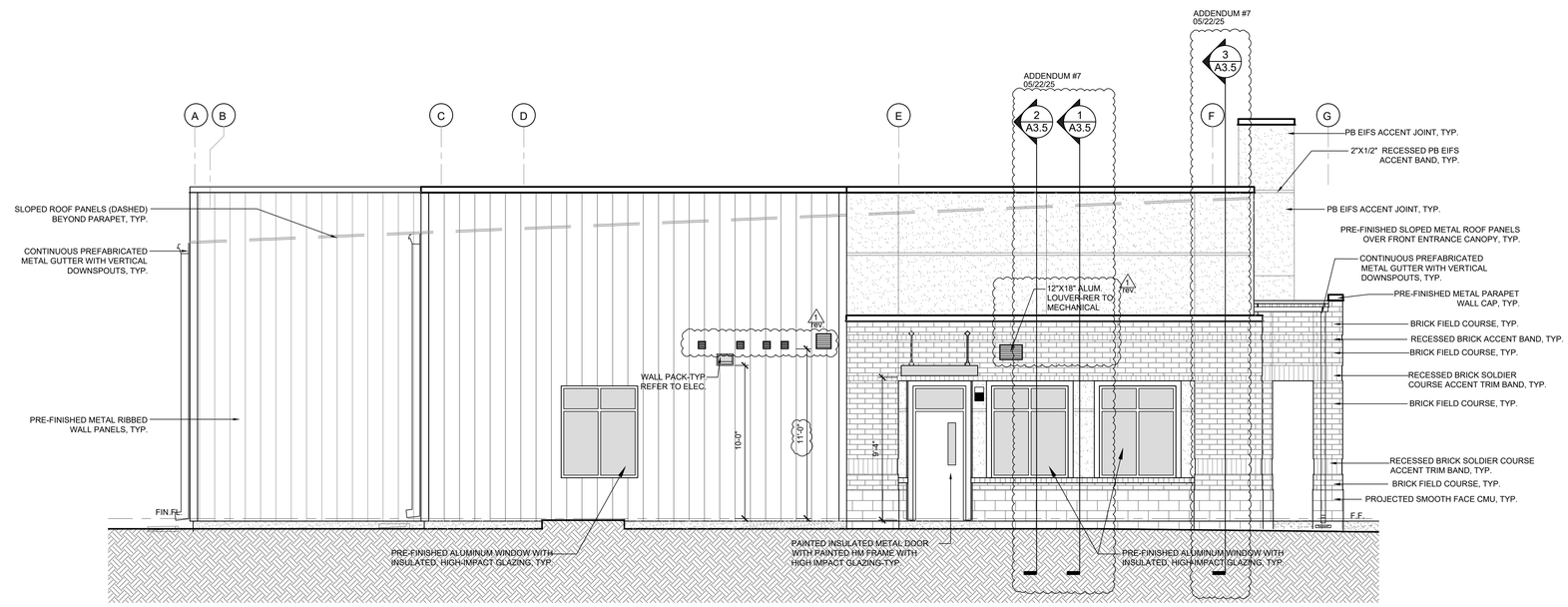
FAIRCLOTH SKIMMER
WWW.FAIRCLOTHSKIMMER.COM
TELEPHONE: (919) 732-1244
FAX: (919) 732-1266
EMAIL: SALES@FAIRCLOTHSKIMMER.COM

Fixture P-3 Specification

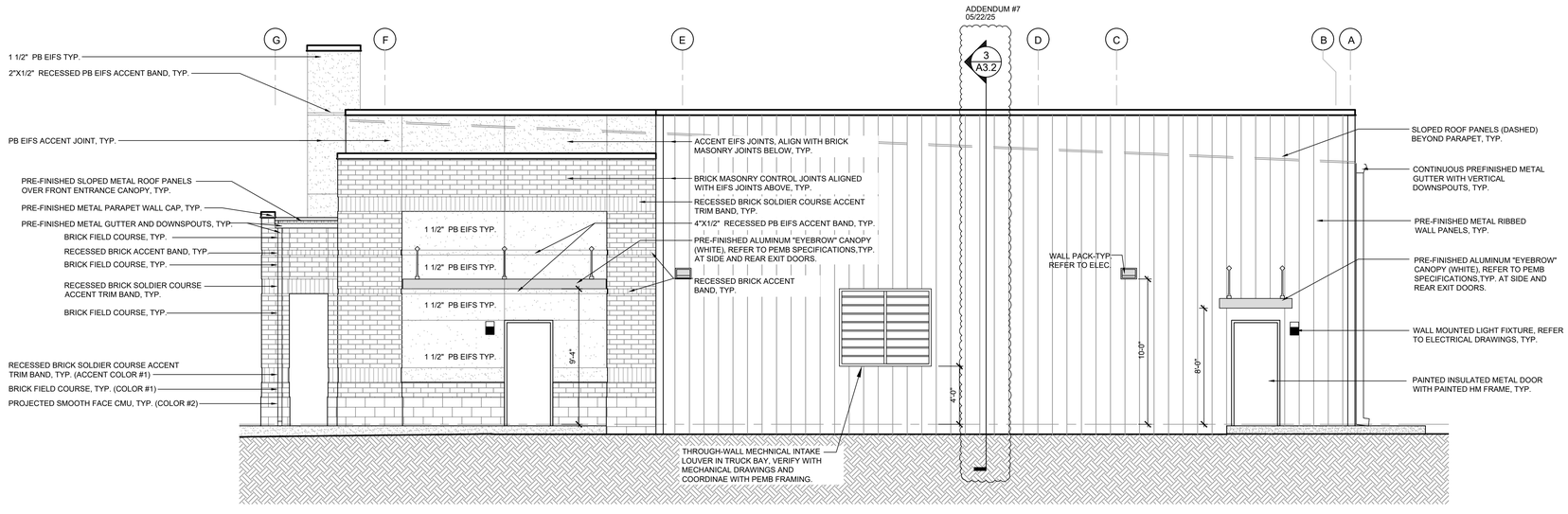
P-3	SERVICE SINK			FIAT #SF-1-F MOLDED STONE LAUNDRY TUB	PROVIDE WITH FIAT #A-1 FAUCET, (4) LEGS, STRAINER, PROVIDE FLEX. SUPPLIES W/ WHEEL HANDLE STOPS, ADJUST. P-TRAP (11/2"X11/2") & ESCUTCHEON.	2"	11/2"	1/2"	1/2"		CAULK AT WALL W/ WHITE SILICONE SEALANT.

Addendum #7
date: 5/22/25

Sketch No. P1



1 A2.1 SIDE ELEVATION - 3 TRUCK BAY & ALTERNATE #1: 4 TRUCK BAY
SCALE: 1/4"=1'-0"



2 A2.1 SIDE ELEVATION - 3 TRUCK BAY & ALTERNATE #1: 4 TRUCK BAY
SCALE: 1/4"=1'-0"

PMH CROFT
ARCHITECTS • ENGINEERS
1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
www.pmh@pmhcroft.com

STATE OF SOUTH CAROLINA
Croft &Associates SC, LLC
MYRTLE BEACH, S.C.
102094
REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA
JOSEPH CHARLES PIKE
MYRTLE BEACH, S.C.
2717
REGISTERED ARCHITECT

OWNER

HORRY COUNTY
THE INDEPENDENT REPUBLIC
S.C.

PROJECT

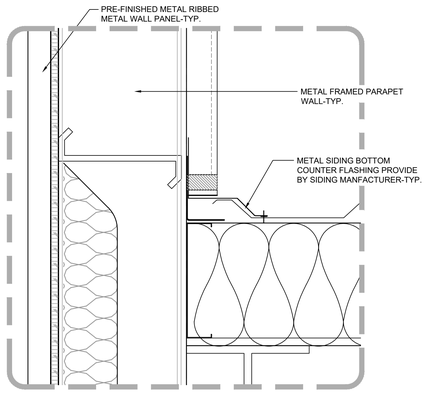
A NEW BUILDING REPLACEMENT FOR:
FINKLEA FIRE STATION #6
HORRY COUNTY SOUTH CAROLINA

PROJECT NUMBER
24002

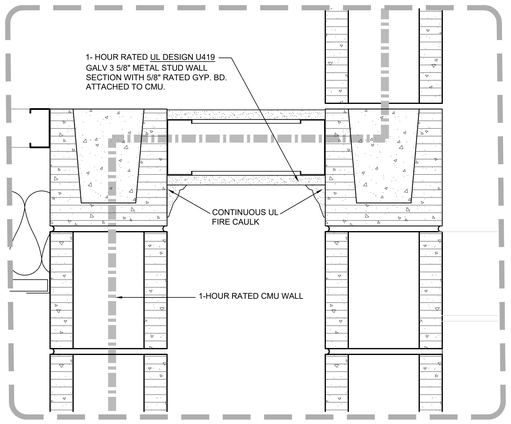
DRAWN: DP	CHECKED:
DATE:	08-15-24
REVISION #1:	11-05-24
ADDENDUM #7:	05-22-25

SHEET TITLE
Elevations
Base bid & Alternate #1

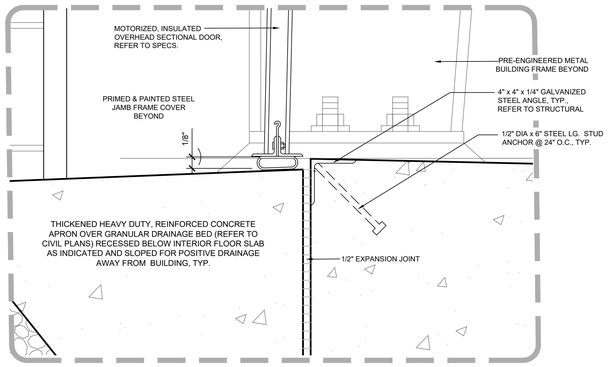
SHEET NO.
A2.1



A DETAIL A3.2 SCALE: 3"=1'-0"



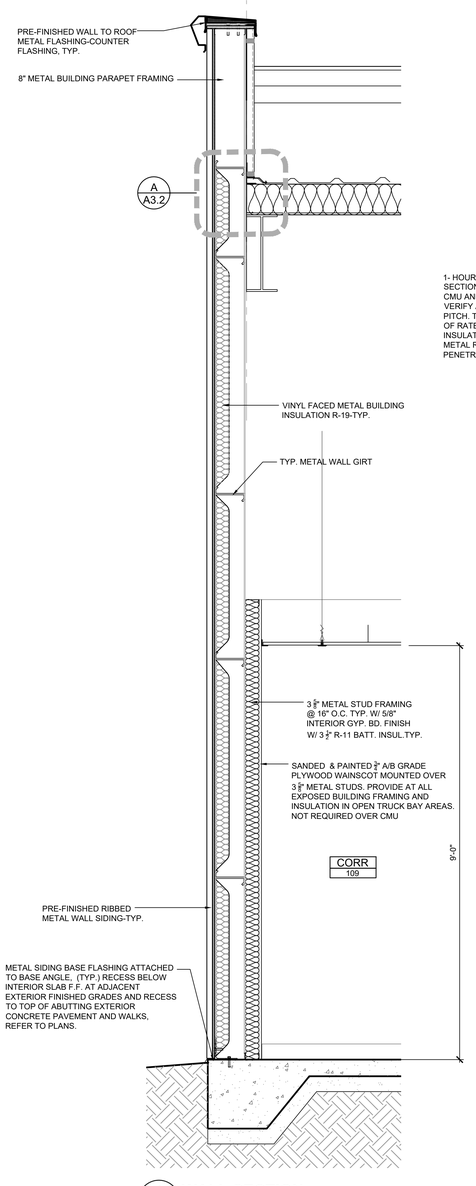
B DETAIL A3.2 SCALE: 3"=1'-0"



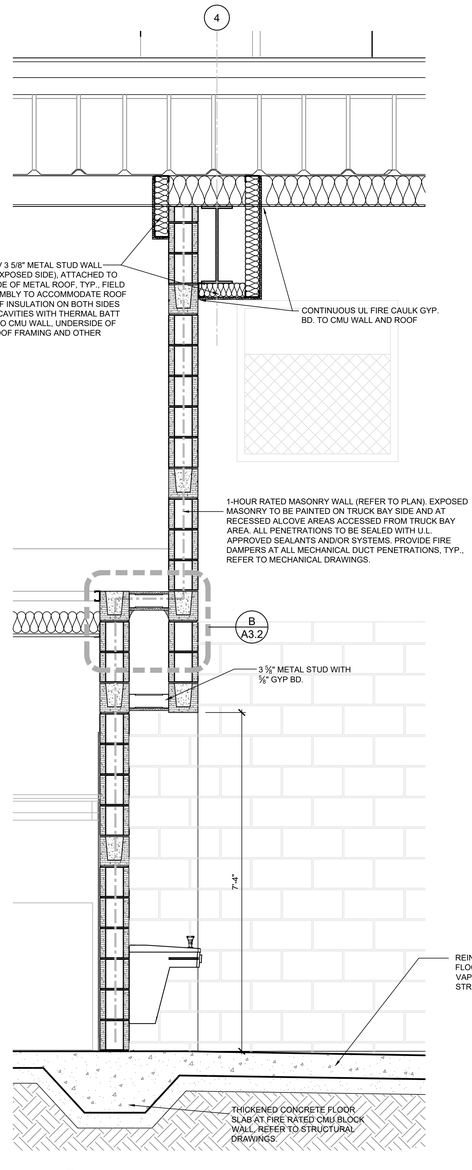
C DETAIL A3.2 SCALE: 3"=1'-0"

NOTE:

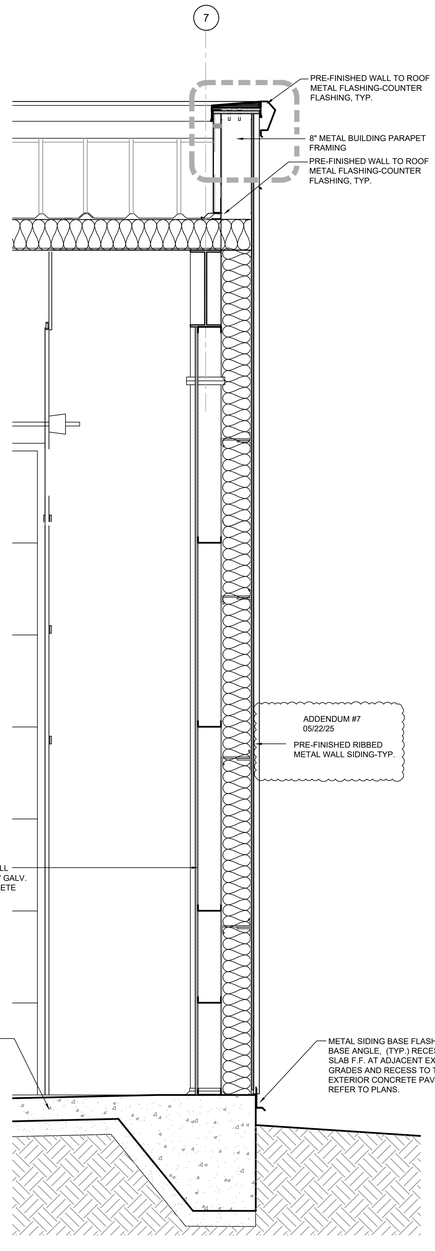
1. THROUGH WALL FLASHING @ GRADE TO BE STEPPED AS REQUIRED @ EXTERIOR CONCRETE WALKS AND STOOPS ADJACENT TO EXTERIOR MASONRY VENEER TO TERMINATE ABOVE HORIZONTAL CONCRETE SURFACES, TYP.
2. PROVIDE DAMPPROOFING AS SPECIFIED ON EXTERIOR SIDE OF ALL BUILDING CMU BLOCK BEHIND EXTERIOR VENEERING FROM TOP OF FOUNDATION TO TOP OF CMU WALLS, TYP.
3. 0.050" PRE-FINISHED ALUMINUM CAP WILL BE ACCEPTABLE IN LIEU OF THE 16-GAUGE PRE-FINISHED METAL AS INDICATED. ALL FLASHING CAPS SHALL BE INSTALLED WITH POSITIVE SLOPE AWAY FROM BUILDING AND NO LOW AREAS RESULTING IN "PONDING" ON TOP OF CAPS, TYP.
4. ALL SHEET METAL WORK TO COMPLY WITH "ARCHITECTURAL SHEET METAL MANUAL (SMACNA), LATEST EDITIONS. SUBMIT SHOP DRAWINGS FOR ALL SHEET METAL WORK TO ARCHITECT FOR REVIEW AND APPROVAL, PRIOR TO FABRICATION AND INSTALLATION.
5. ALL FLASHING MATERIALS TO BE COMPATABLE WITH ADJACENT MATERIALS IN DIRECT CONTACT, TYP. ALL THROUGH WALL FLASHING TO BE 16 OZ COPPER WITH CONTINUOUS SOLDERED JOINTS, TYP. FLASHINGS OVER WALL OPENINGS TO EXTEND 6" MIN. PAST EACH SIDE OF OPENING, TYP.



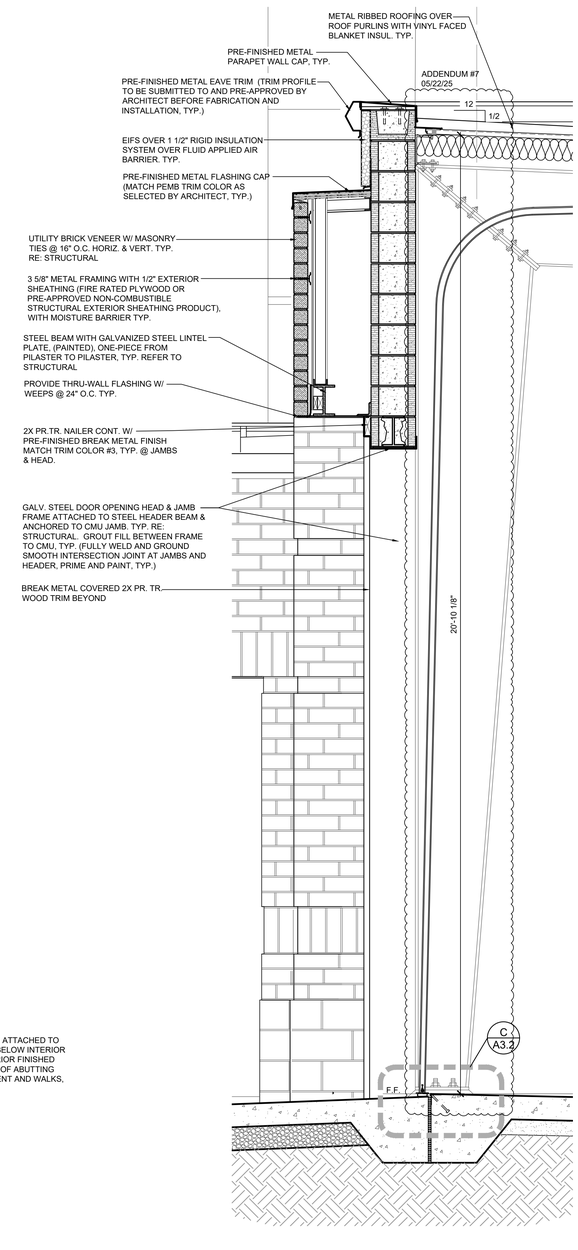
1 WALL SECTION A3.2 SCALE: 3/4"=1'-0"



2 WALL SECTION A3.2 SCALE: 3/4"=1'-0"



3 WALL SECTION A3.2 SCALE: 3/4"=1'-0"



4 WALL SECTION A3.2 SCALE: 3/4"=1'-0"

PMH CROFT
ARCHITECTS • ENGINEERS
1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
www.pmh@pmhcroft.com

STATE OF SOUTH CAROLINA — Croft & Associates SC, LLC — MYRTLE BEACH, S.C. — 102094 — REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA — JOSEPH CHARLES PIKE — MYRTLE BEACH, S.C. — 2717 — REGISTERED ARCHITECT

OWNER

HORRY COUNTY — THE INDEPENDENT REPUBLIC — S.C.

PROJECT

A NEW BUILDING REPLACEMENT FOR: FINKLEA FIRE STATION #6

SOUTH CAROLINA

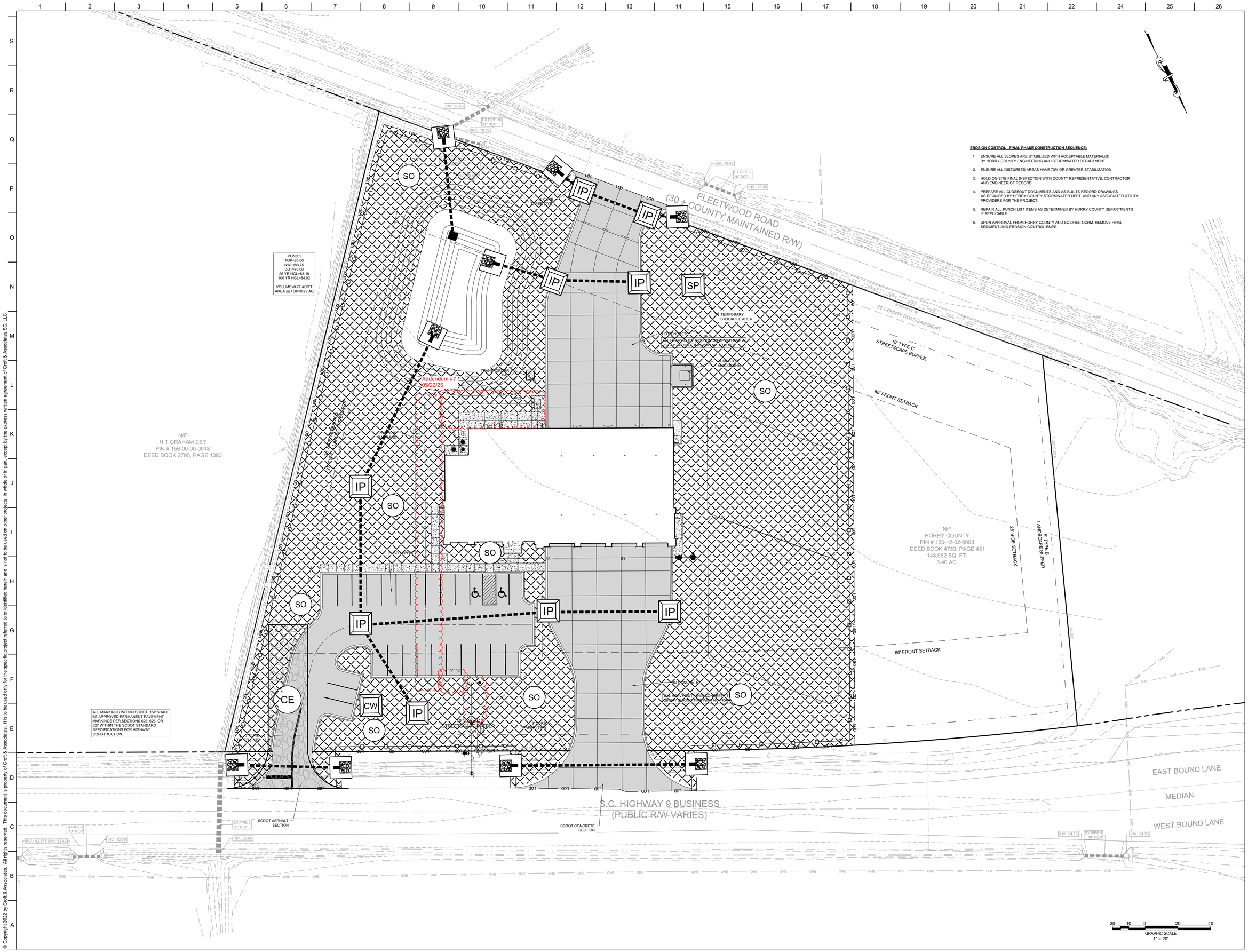
HORRY COUNTY

PROJECT NUMBER
24002

DRAWN:	CHECKED:
DP	
DATE:	08-15-24
ADDENDUM #7:	05-22-25

SHEET TITLE
WALL SECTIONS

SHEET NO.
A3.2



EROSION CONTROL - FINAL PHASE CONSTRUCTION SEQUENCE:

1. ENSURE ALL SLOPES ARE STABILIZED WITH ACCEPTABLE MATERIAL(S) BY HORRY COUNTY ENGINEERING AND STORMWATER DEPARTMENT.
2. ENSURE ALL DISTURBED AREAS HAVE 70% OR GREATER STABILIZATION.
3. HOLD ON-SITE FINAL INSPECTION WITH COUNTY REPRESENTATIVE, CONTRACTOR AND ENGINEER OF RECORD.
4. PREPARE ALL CLOSEOUT DOCUMENTS AND AS-BUILTS RECORD DRAWINGS AS REQUIRED BY HORRY COUNTY STORMWATER DEPT. AND ANY ASSOCIATED UTILITY PROVIDERS FOR THE PROJECT.
5. REPAIR ALL PUNCH LIST ITEMS AS DETERMINED BY HORRY COUNTY DEPARTMENTS IF APPLICABLE.
6. UPON APPROVAL FROM HORRY COUNTY AND SC-DHEC OCRM, REMOVE FINAL SEDIMENT AND EROSION CONTROL BMPS.

PMH CROFT
ARCHITECTS • ENGINEERS
1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
www.pmh@pmhcroft.com

SOUTH CAROLINA
DIAMOND SHORES SURVEYING, LLC
NO: 6642
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
PROFESSIONAL ENGINEER
05.21.2025
KYLE R. NOBLES

OWNER

HORRY COUNTY
THE INDEPENDENT REPUBLIC
S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR: FINKLEA FIRE STATION #6

HORRY COUNTY SOUTH CAROLINA

PROJECT NUMBER
24002

DRAWN: KT
CHECKED:
DATE: 05-22-25
ADDENDUM #7

SHEET TITLE
SWPPP STABILIZATION PHASE PLAN

SHEET NO.
C4.2

PRIOR APPROVALS

FINKLEA FIRE STATION #6

Project Number PJ00120545

Table of Contents

Datasheets