

ARCHITECTURE ENGINEERING

November 14, 2023

NORTH TOPSAIL BEACH FIRE STATION #2

North Topsail Beach, North Carolina BMG Project No: 2021025.02

BID DATE, TIME, AND LOCATION HAS NOT CHANGED.

Bid Date and Time: Tuesday, November 21, 2023, at 2 PM Bid Location: Town of North Topsail Beach Town Hall, 2008 Loggerhead Court, North Topsail Beach, NC 28460

The following items supplement, change, delete or add to the Construction Documents as though repeated in full therein. All general conditions, special conditions, etc., as originally specified shall apply to these items.

A. REQUESTS FOR INFORMATION

The following questions were asked and answered:

- 3/A003: In lieu of steel plate for rated CMU top of wall, can mineral wood and prayed fire caulking be used instead?
 <u>Response</u>: Mineral wool and spray fire caulking are not an acceptable solution.
- 7) 4/A510: Can a turn down slab be substituted for the one course of CMU Block shown? <u>Response</u>: REVISED Foundation Plan S2.01 and ADDED detail 11-11/S3.01 to show turn down slab at Apparatus Bay. Revised S2.01 and S3.01 are attached at the end of this Addendum.
- 3/A305: At Canopy Attachments, can a Block be used at the siding to avoid penetrating the envelope with the bracket?
 <u>Response</u>: REVISED details 3/A305 to show blocking moved to exterior of nailable insulation. Revised A305 is attached at the end of this Addendum.
- 9/C2.1: Provide information on wood platform/patio at North side of Building near elevated mechanical platform.
 <u>Response</u>: REVISED details 1/A100 to show updated note information. Revised A100 is attached at the end of this Addendum.
- S2.01/A100/C2.21: With regards to the retaining wall on the left side of the truck ramp;
 S2.01 calls out an 8" CMU wall, A100 calls out a segmental block retaining wall and C2.21 note 11 stated Segmental Block retaining wall-designed by others. What is the intent for this wall?
 Response: Wall is to be segmented. See C2.21. REVISED Foundation plan S2.01 note for

<u>Response</u>: Wall is to be segmented. See C2.21. REVISED Foundation plan S2.01 note for segmental retaining wall. Revised S2.01 is attached at the end of this Addendum.

20) In Division 26 of the Specs, Page 260533-5/3.1 B #4 States Raceways concealed in ceilings and interior walls shall be sch 40 PVC, but 260533-7 AA. States sch 40 PVC shall not be used in Gypsum walls. That being said What kind of Conduit shall be used in Gypsum walls? <u>Response</u>: Due to the location of this project being on the beach, Schedule 40 PVC shall be installed, concealed in ceilings and in gypsum walls. Provide stainless steel mounting hardware and supports for all PVC raceway and boxes.

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- 21) Will the owner remove all items from the existing building before demolition? **Response**: Confirmed.
- What permits are required for this project? Does the owner or GC pay for any permits that are required?
 <u>Response</u>: All site permits are approved inclusive of NCDEQ Stormwater, NCDEQ Erosion Control, NCDOT Driveway Permit, NCDOT Encroachment Permit, Pluris (sewer service), NWASA (water service), and CAMA. Demolition Permit and Building Permit are still required. GC is responsible to pay for any permits other than those issued by the Town of North Topsail Beach.
- Note 9 on drawings C2.1 calls out a wood platform. I have been unable locate any details for this wood platform. Please provide details.
 <u>Response</u>: See above response to item 12.
- Please confirm that the owner's gas company provides and installs the underground propane tank and gas line to the building.
 <u>Response</u>: Confirmed.
- 25) Are any water and sewer fees required for this project? **Response**: No further fees are required for water and sewer.
- 26) I have been unable to locate a detail for the light duty concrete. Please provide. <u>Response</u>: REVISED C-5.0 added a light duty concrete pavement section. Revised C-5.0 is attached at the end of this Addendum.
- 27) Drawing AD101 general notes J and L refer to items to be salvaged. I have been unable to locate a list of any salvaged items in the bid documents. Are there any items to be salvaged? If yes, please provide more information?
 <u>Response</u>: REVISED AD101 Demolition Key Notes to strike out J and L. Revised AD101 is attached at the end of this Addendum. See above response to item 21.
- 28) What is the location of the laydown area? How much of a laydown area will be provided? **Response**: No guaranteed laydown area outside of the property line.
- 29) There is a specification for chain link fencing and sod. I have been unable to locate these items in the drawings. Are we to provide these items? If yes, please provide more details. <u>Response</u>: Sod is provided in case the site contractor chooses to use sod instead of seed. The chain link fence is not required for this project. **DELETE** specification Section 323113 Chain Link Fences and Gates.
- 30) There is a specification for visual display units. I have been unable to locate these items in the drawings. Are we to provide these items? If yes, please provide more details.
 <u>Response</u>: Owner Furnished Owner Installed (OFOI). DELETE specification Section 101100 Visual Display Units.
- 31) Is a hazardous material/asbestos and lead survey available? Is the GC responsible for the removal of any hazardous material, asbestos, or lead?
 <u>Response</u>: Not applicable. To be handled as found condition.
- 32) Do all the stairway landings get LVT2?<u>Response</u>: Correct, all stair landings to receive LVT-2.

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33) Could a specification or model numbers be provided of the OFCI items in specification 01100 1.5B? Will the mounted hardware be provided for the TVs? Are the computer monitors wall mounted or desktop? If wall mounted will mounting hardware provided? How many monitors?
 <u>Response</u>: For clarification, all items listed under specification Section 01100, 1.5B, are

Owner Furnished Contractor Installed (OFCI) items except for Item 9 – Televisions in Rooms 104, 206 and 209, which are Owner Furnished Owner Installed (OFOI). Model Numbers for the OFCI items can be provided during construction phase. Receptables, plumbing connections etc. have been coordinated with intended products and are shown on mechanical, electrical, and plumbing drawings. **REVISED** details 3/A701 and 1-4/A702 to show updated note at TVs. **REVISED** specification Section 011000 – Summary of Work. Revised A701, A702 and Section 011000 are attached at the end of this Addendum.

- 34) Drawing A701 details shows a locker room bench. If the GC is to provide and install this item, please provide more details.
 <u>Response</u>: 11/A701 detail shows the bench, which is Owner Furnished Owner Installed.
- 35) What is the estimated start date for this project? **<u>Response</u>**: Beginning of February 2024.
- 36) This addendum does not address the adhered stone. The specifications are not sufficient to allow for pricing. A RFI to the architect asking for clarification will be required. <u>Response</u>: REVISED specification Section 044313.16 – Adhered Manufactured Stone Veneer. Revised Section 044313.16 are attached at the end of this Addendum.
- 37) Room finish schedule shows Room 124, but I don't see it on the plan sheets. Should I ignore? <u>Response</u>: REVISED detail 2/A101 and Finish Schedule on A601 to show Storage 124 now as Storage 206A. Revised A101 and A601 is attached at the end of this Addendum.
- 38) Finish schedule refers Exposed ceilings to spec sec 099123. Are we to us the specification for steel/galvanized substrate for our finishes in this area? It's usually a dry fall product.
 <u>REVISED</u> specification Section 099123 Interior Painting. Revised Section 099123 is attached at the end of this Addendum.
- 39) The exterior spec 099113 does not address finishes for the lap and B&B siding, only the PVC trim. Will this be added in the next addendum?
 <u>Response</u>: REVISED Specification Section 099113 Exterior Painting. Revised Section 099113 is attached at the end of this Addendum.
- Please confirm that the flood vents at the bay doors are installed into a solid panel.
 <u>Response</u>: Bottom panel of apparatus bay doors is to be a solid panel to receive flood vents. Installation to be coordinated with flood vent manufacturer.
- 41) Drawings MH101 & MH102 only show one condensate drain line for each Air Handling Unit. The submittals for these units show two 1-1/4" condensate drain connection points. Do we need to provide two separate condensate drain connections & two separate drain lines for each AHU?

<u>Response</u>: Only one drain is needed. One connection uses the onboard lift mechanism and the other is for gravity or external pump.

42) We need clarification on the Hurricane impact requirements for this project. Will this project require Glass and Glazing that is resistant to impacts from hurricanes and wind borne debris? The specs are conflicting. Spec. 084113-4 2.1 I - calls for Wind borne debris Impact resistant

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materials, but the Basis of design for the storefronts and entrance doors is not one that is typically selected when wind borne debris resistance is required. Spec. 088000-4 2.2 C Again calls for glass resistant to Impact from Wind Borne Debris, but the glass specs. 088000-6 2.6 C Does not call out a glass makeup for the insulated glass units that would be considered Impact resistant to wind borne debris. Finally the section cuts of the storefront system are drawn as a typical non-impact system.

<u>Response</u>: Yes, glass and glazing are required to meet impact resistance per specification. Glass selection shall reflect impact resistance per specification section 088000-4 2.2 C. Details shown are typical storefront details. Contractor to provide manufacture specific shop drawings during construction phase.

- 43) Will there be any compressed air piping for this project? I see there is a SCBA room, and the compressor is listed as OFCI per amendment 1. There are no details or drawings that show piping or fill stations layout. It is unknown what size pipe to provide and without a layout it would be hard to price this portion of the work as it is unknown.Response: No compressed air piping required. All equipment has built in air systems.
- 44) I have some questions regarding spec section 105113 Metal Lockers. Para 2.3 C. 3. calls for "sound dampening panels", item 4. a. calls for "diamond perforated". Locker doors can be one or the other. Which is actually required here? Para 2.3 J.1. calls for "closed front and end bases", para 2.5 F. calls for "continuous base-zee profile". Which of these options is actually required?

<u>Response</u>: **REVISED** Specification Section 105113 – Metal Lockers. Revised Section 105113 is attached at the end of this Addendum.

B. DRAWINGS

The following drawings have been added or revised:

- Sheet E003 ELECTRICAL RISER DIAGRAM AND SCHEDULES revised to indicate NEMA 4X S.S. on the disconnect switches. Sheet E003 is attached to the end of this Addendum.
- 2) Sheet EP100 ELECTRICAL ROOF PLAN HVAC POWER revised to indicate NEMA 4X S.S. on the disconnect switches. Sheet EP100 is attached to the end of this Addendum.

C. PROJECT MANUAL

The following specifications have been added or revised:

- 1) **TABLE OF CONTENTS: REVISED**. <u>DELETE</u> Table of Contents in its entirety and <u>REPLACE</u> with revised Table of Contents, attached to the end of this Addendum.
- 2) **DELETE** Specification Section 012900 Payment Procedures in its entirety and **REPLACE** with revised Section 012900, attached to the end of this Addendum.
- 3) **DELETE** Specification Section 075419 Polyvinyl Chloride (PVC) Roofing in its entirety and **REPLACE** with revised Section 075419, attached to the end of this Addendum.
- 4) **DELETE** Specification Section 263213 Diesel Engine Generators in its entirety and **REPLACE** with revised Section 263213, attached to the end of this Addendum.

D. ATTACHMENTS

- 1) G001 Cover Sheet
- 2) C-5.0 Details
- 3) S2.01 Foundation Plan
- 4) S3.01 Foundation Sections
- 5) AD101 Existing Building Demolition Plan
- 6) A100 Architectural Site Plan / Flood Proofing Diagram

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- 7) A101 First and Second Floor Plan
- 8) A305 Wall Sections
- 9) A601 Door and Window Types and Schedules
- 10) A701 Interior Elevations
- 11) A702 Interior Elevations
- 12) E003 Electrical Riser Diagram and Schedules
- 13) EP100 Electrical Roof Plan HVAC Power
- 14) Table of Contents
- 15) Section 011000 Summary
- 16) Section 012900 Payment Procedures
- 17) Section 044313.16 Adhered Manufactured Stone Veneer
- 18) Section 075419 Polyvinyl Chloride (PVC) Roofing
- 19) Section 099113 Exterior Painting
- 20) Section 099123 Interior Painting
- 21) Section 105113 Metal Lockers
- 22) Section 263213 Diesel Engine Generators
- 23) CSI Substitution Form Sika Sarnafil PVC Roofing
- 24) CSI Substitution Form Soprema Sentinel PVC Roofing

END OF ADDENDUM NO. 2

ABBREVIATIONS

AB	BREVIAI	
AC ACT AFF AL AP ARGWB	ACOUSTIC ACOUSTIC CEILING TILE ABOVE FINISH FLOOR ALUMINUM ACCESS PANEL ABUSE RESISTANT GYPSUM	FRT FTG FURR FV FVC
BD BLDG BM	WALL BOARD BOARD BUILDING BENCH MARK	GA GB GWB GYP
BRG CAB CB CFCI CH	BEARING CABINET CHALKBOARD CONTRACTOR FURNISHED CONTRACTOR INSTALLED CEILING HEIGHT	HC HDW HM HP HR HT
CJ CL CLG	CONTROL JOINT CENTER LINE CEILING	ID INSUL
CLO CLR CMU COL	CLOSET CLEAR CONCRETE MASONRY UNIT COLUMN	JAN JST JT
CONC CONST CONT CORR	CONCRETE CONSTRUCTION CONTINUOUS CORRIDOR	LAM LAV LP
CPT CR CT	CARPET COLD ROLLED CERAMIC TILE	M MACH MAINT
DA DBL DET DF DIA DIM DISP DR DS DW DWG	DISTURBED AREA DOUBLE DETAIL DRINKING FOUNTAIN DIAMETER DIMENSION DISPENSER DOOR DOWNSPOUT DRYWALL DRAWING	MAS MAT MB MC MECH MET MFR MIN MO MS MTD
ea Ej Elec Ep Eq Equip	EACH EXPANSION JOINT ELECTRIC/ELECTRICAL EPOXY PAINT EQUAL EQUIPMENT	NC NIC NO NTS
EWC	ELECTRICAL WATER COOLER EXISTING	OC OD OFCI
EXP EXT	EXPANSION EXTERIOR	OFF OFOI
FC FCU FD	FIRE CODE FAN COIL UNIT FLOOR DRAIN	OH OPG
FE FEC FINF FON FOS FRP	FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FINISHED FLOOR FOUNDATION FACE OF STUD FIREGLASS REINFORCED PLASTIC	PART PL PLAM PLY PNL PRV PS

(101)

DOOR TAG

FIRE RETARDANT TREATED TG FOOTING URR FURRED (FURRING FIELD VERIFY FIRE VALVE CABINET GAUGE GRAB BAR SWB GYPSUM WALL BOARD GYPSUM BOARD HANDICAPPED HDW HARDWARE HOLLOW METAL **HIGH POINT** HOUR HEIGHT INSIDE DIAMETEI NSUL INSULATION JANITO JOIST JOINT LAMINATI LAVATORY SIN LOW POINT MEN ЛАСН MACHINE 1AINT MAINTENANCE ЛAS MASONR MATERIALS MAXIUMUM MARKER BOARD MEDICINE CABINET ИЕСН MECHANICA ИЕТ META ЛFR MANUFACTURER MINIMU MASONRY OPENING METAL SHELVING MOUNTED NONCOMBUSTIBLE NOT IN CONTRACT NUMBE NOT TO SCALE ON CENTER OUTSIDE DIAMETER DFCI OWNER FURNISHED CONTRACTOR INSTALLED OFFICE FOI OWNER FURNISHED OWNER INSTALLED OPPOSITE HANI PG OPENIN ART PARTITION PLATE LAM PLASTIC LAMINATE PLY PLYWOOD

PT	PAINTED
RECPT REF	ROOF DRAIN RECESSED RECEPTIONIST REFRIGERATOR REQUIRED RAIN LEADER ROOM ROUGH OPENING RUBBER (WALL BASE)
SGFT SH SHT SIM SLS SM SP SS STL STOR STOR STRUCT	SOAP DISPENSER SECTION STRUCTURAL GLAZED FACING TILE SHOWERHEAD SHEET SIMILAR STAINLESS STEEL SURFACE MOUNTED STAND PIPE SERVICE SINK STEEL STORAGE STRUCTURAL SUSPEND (SUSPENDED) SYNTHETIC FLOOR
TD	TONGUE & GROOVED TACKBOARD TRENCH DRAIN TELEPHONE THRESHOLD TOP OF BEARING TOP OF MASONRY PARAPET TOILET PAPER HOLDER TACK STRIP/ TEACHING STATION TEACHING WALL TYPICAL
UL UON USG VAT VCT VERT	UNDERWRITERS LABORATORIES UNLESS OTHERWISE NOTED U.S. GYPSUM COMPANY VINYL ABESTOS TILE VINYL COMPOSITION TILE VERTICAL
VEST VRG VTR	VESTIBULE VINYL REDUCER STRIP VENT THROUGH ROOF
W WAIN WARD WC WD WDR WL WM WM	WOMEN WITH WAINSCOT WARDROBE WATER CLOSET WOOD WARDROBE WALL WALL-MOUNTED WELDED WIRE MESH



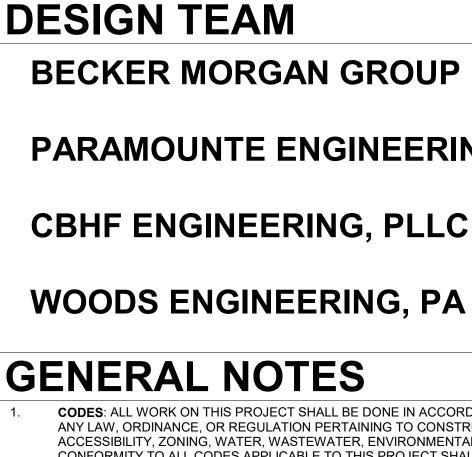
SYMBOLS OF MATERIALS

PANEL

POWER ROOF VENTILATOR

PROJECTOR SCREEN

		ALL METALS-SMA	LL SCALE			GLAZED C.M.U.
	\mathbf{X}	ACOUSTIC C.M.U. SMALL SCALE				PARTICLE BOARD
	\searrow	ACOUSTIC C.M.U. LARGE SCALE				RIGID INSULATION
	R	BATT INSULATION	I			SHINGLES
		BRICK				SOLID CONCRETE MASONRY UNITS
	· · ·	CAST STONE				STEEL-LARGE SCALE
	. ↓ ↓ ↓ ↓	CONCRETE				STUD PARTITION
	\sum	CONCRETE MASONRY UNITS				WOOD-FINISH
		EARTH				WOOD BLOCKING
		GLASS-LARGE SC	ALE			
RAW	IN	G KEYS				
0	STRU	CTURAL GRID LINES				
1 A101	¹ SECT	ION	1 A101	ИE	ELEVATION	
1 A101		ILS IN PLAN, SECTION				
	WALL	TYPE, SEE A501			NEW WALL EXISTING WALL	. TO REMAIN
Name	ROOM	I NAME AND NUMBER			EXISTING WALL	TO BE REMOVED
\$F-)	WIND	OW TAG				



-	EGRESS: ALL MEANS OF EGRE
	SPRINKLER PROTECTION, ETC.
-	ACCESSIBILITY: ALL BUILDING
	AMERICANS WITH DISABILITIES
	FIELD VERIFICATION: THE CON
	TO THESE DESIGN DRAWINGS
	VARIATIONS, DISCREPANCIES,
	THOSE CONDITIONS.
-	SUBMITTALS: CONTRACTOR SH
	FABRICATION, AND/OR INSTALL
-	INSTALLATION: PROPER ASSEM
	WITH MANUFACTURES INSTRU
-	INCIDENTAL WORK: ANY ITEMS
	ACCORDANCE WITH APPLICAB
-	OWNER-PROVIDED WORK: LOC
	ETC.
-	SAFETY: COMPONENTS FOR CO
	OCCUPATIONAL SAFETY AND H
0.	INSPECTIONS: CONTRACTOR IS
1.	DIMENSIONS: UNLESS OTHERW
	FACE OF MASONRY OPENING II
2.	BLOCKING: PROVIDE BLOCKING
	IN THESE DRAWINGS.
3.	METAL PROTECTION AT TREAT
	PROTECT AGAINST ACCELERA
	RECOMMENDATIONS.
4.	HURRICANE TIES: CONTRACTO
5.	WINDOWS AND DOORS: WINDO
	RATING, IMPACT/SAFETY GLAZ
6.	LIFE SAFETY COMPONENTS: FI
	INSPECTION AND EVALUATION.
7.	FIRE PROTECTION, PLUMBING,
	CONTRACTORS, AND BE IN ACC
	LOCAL A.H.J., AND ALL APPLICA
8.	PIPE INSULATION: CONTRACTO
9.	GRADING: CONTRACTOR SHAL
	HEDULE
フし	DEDULE V

ADD / ALT #1: SPRAYED ACOUSTIC INSULATION -BASE BID: NO SPRAY APPLICATION.

/1∖ ADD/ ALT #2: STANDING SEAM METAL ROOF BASE BID: MEMBRANE ROOF PER CONTRACT DRAWINGS. ALTERNATE: PROVIDE AND INSTALL STANDING SEAM METAL ROOF IN LIEU OF MEMBRANE ROOF AS SHOWN ON A523 AND AS SPECIFIED IN SECTION 074113.16.

NEW CONSTRUCTION OF NORTH TOPSAIL BEACH FIRE STATION #2

3304 GRAY STREET NORTH TOPSAIL BEACH, NC 28460

ISSUED FOR BIDDING

10/24/2023

PARAMOUNTE ENGINEERING, PLLC

PME ENGINEER

CIVIL ENGINEER

ARCHITECT

STRUCTURAL ENGINEER

CODES: ALL WORK ON THIS PROJECT SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES, ORDINANCES, REGULATIONS, STANDARDS, AND ANY ADDITIONAL REQUIREMENT STATED IN ANY LAW, ORDINANCE, OR REGULATION PERTAINING TO CONSTRUCTION WITHIN THE LIMITS OF THE AUTHORITY HAVING JURISDICTION OVER THE PROPOSED WORK (INCLUDING BUT NOT LIMITED TO: FIRE, ACCESSIBILITY, ZONING, WATER, WASTEWATER, ENVIRONMENTAL, STRUCTURAL, ARCHITECTURAL, HEALTH, FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL, AND ENERGY CONSERVATION). CONFORMITY TO ALL CODES APPLICABLE TO THIS PROJECT SHALL BE THE CONTRACTORS RESPONSIBILITY. SS SHALL BE CONTROLLED BY THE AUTHORITY HAVING JURISDICTION, INCLUDING EXITS, EXIT ACCESS, EXIT DISCHARGE, OTHER EGRESS PATHS, OCCUPANTS LOADS,

> COMPONENTS, FIXTURES, ACCESSORIES, ETC. SHALL BE INSTALLED WITH MANEUVERING AND OPERATING CLEARANCES, MOUNTING HEIGHTS, ETC. IN ACCORDANCE WITH SACT STANDARDS, ICC/ANSI A117.1, AND STATE ACCESSIBILITY CODE. ITRACTOR SHALL VERIFY ALL SITE CONDITIONS AND PROPOSED BUILDING DIMENSIONS PRIOR TO CONSTRUCTION, ANY VARIATIONS, DISCREPANCIES, OR FIELD ALTERATIONS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION PRIOR TO CONSTRUCTION. IF CONTRACTOR COMMENCES CONSTRUCTION WITHOUT NOTIFYING ARCHITECT OF , OR FIELD ALTERATIONS, THAT SHALL CONSTITUTE WAIVER TO ANY CLAIM BY CONTRACTOR FOR ADDITIONAL EXPENSES NECESSARY TO PERFORM WORK ASSOCIATED WITH

> SHALL SUBMIT ALL NECESSARY BUILDING COMPONENTS, SYSTEMS, EQUIPMENT, MATERIALS, FINISHES, ETC. FOR REVIEW BY ARCHITECT/OWNER PRIOR TO PROCUREMENT, LATION. EMBLY, INSTALLATION, AND OPERATION OF ALL MATERIALS, COMPONENTS, SYSTEMS, AND FINISHES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE IN ACCORDANCE

> JCTIONS AND ALL APPLICABLE CODES. S NOT SPECIFICALLY SHOWN ON THE DRAWINGS, BUT WHICH ARE REASONABLY INCIDENTAL TO AND NECESSARY FOR THE SATISFACTORY COMPLETION OF THE PROJECT IN 3LE CODES, ORDINANCES, REGULATIONS, AND STANDARDS, ARE INCLUDED WITHIN THE INTENT OF THESE DESIGN DRAWINGS. CATION OF ALL OWNER-PROVIDED FIXTURES, EQUIPMENT, ETC. SHALL BE COORDINATED TO ENSURE PROPER ALIGNMENT FOR INSTALLATION AND OPERATION, BLOCKING,

> CONSTRUCTION SAFETY ARE NOT INDICATED IN THESE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL RULES AND OTHER REQUIREMENTS OF THE HEALTH ACT (OSHA), AND APPLICABLE STATE AND LOCAL SAFETY REQUIREMENTS DURING ALL CONSTRUCTION ACTIVITIES. IS RESPONSIBLE FOR SCHEDULING ALL ON-SITE INSPECTIONS REQUIRED PRIOR TO OCCUPANCY APPROVAL WISE INDICATED: WALLS ARE TO FACE OF STUD FRAMING AND TO FACE OF MASONRY; WINDOWS AND DOORS ARE TO CENTERLINE OF OPENING IN STUD FRAMING AND TO IN MASONRY; PLUMBING FIXTURES ARE TO CENTERLINE OF FIXTURE.

IG AS REQUIRED FOR INSTALLATION OF ALL PORTIONS OF THE WORK AND PER MANUFACTURER'S WRITTEN RECOMMENDATIONS, WHETHER OR NOT SPECIFICALLY INDICATED TED WOOD: METAL CONNECTORS THAT COME IN CONTACT WITH TREATED LUMBER SHALL BE STAINLESS STEEL OR "ZMAX" CORROSION RESISTANT MATERIALS TO HELP

ATED CORROSION. CONTRACTOR SHALL COORDINATE COMPATIBILITY OF ALL METALS USED WITH TREATMENT PRODUCT(S) MANUFACTURER(S)'S WRITTEN OR SHALL PROVIDE HURRICANE TIES AND CONSTRUCTION CONNECTORS PER CODE AND AS REQUIRED BY AUTHORITY HAVING JURISDICTION.

OWS AND DOORS ARE INDICATED USING NOMINAL DIMENSIONS. MATERIALS AND INSTALLATION SHALL COMPLY WITH DESIGN PRESSURE (DP) RATINGS, WATER INFILTRATION ING, WIND REQUIREMENTS, EGRESS HARDWARE, U-FACTOR / R-VALUE, ETC.. ALL EXTERIOR UNITS SHALL HAVE CORROSION-RESISTANT HARDWARE. FINAL LOCATION OF FIRE EXTINGUISHERS, EMERGENCY LIGHTING, AND EXIT SIGNS TO BE AS DIRECTED BY LOCAL FIRE MARSHAL, AND ARE SUBJECT TO FINAL ON-SITE I. CONTRACTOR SHALL MAKE REVISIONS AND/OR ADDITIONS IN ACCORDANCE WITH FIRE MARSHAL'S INSPECTION..

MECHANICAL, ELECTRICAL WORK: ALL FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL WORK SHALL BE PERFORMED BY QUALIFIED, LICENSED (SUB) CORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, STANDARDS, ETC.. ALL COMPONENTS SHALL BE INSTALLED ABOVE THE FLOOD ELEVATION AS REQUIRED BY FEMA, ABLE CODES

OR SHALL INSULATE AND PROTECT PIPES AS REQUIRED BY CODE, AND AS REQUIRED TO PROTECT PIPING EXPOSED TO EXTERIOR CONDITIONS. L COORDINATE SITE GRADING TO COMPLY WITH CODES AND ORDINANCES, AND TO MAINTAIN POSITIVE DRAINAGE AWAY FROM BUILDING.

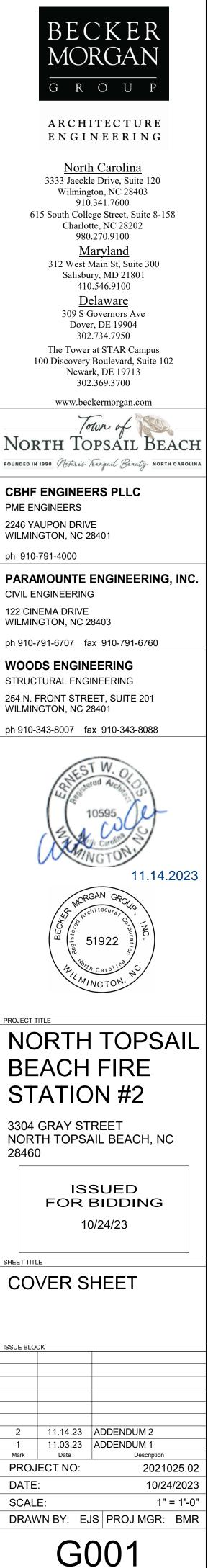
OF ADD / ALTERNATES

ALTERNATE: PROVIDE SPRAYED ACOUSTIC INSULATION AT UNDERSIDE OF METAL DECKING PER SPEC SECTION 098316. SEE FINISH SCHEDULE ON A601 FOR LOCATIONS.

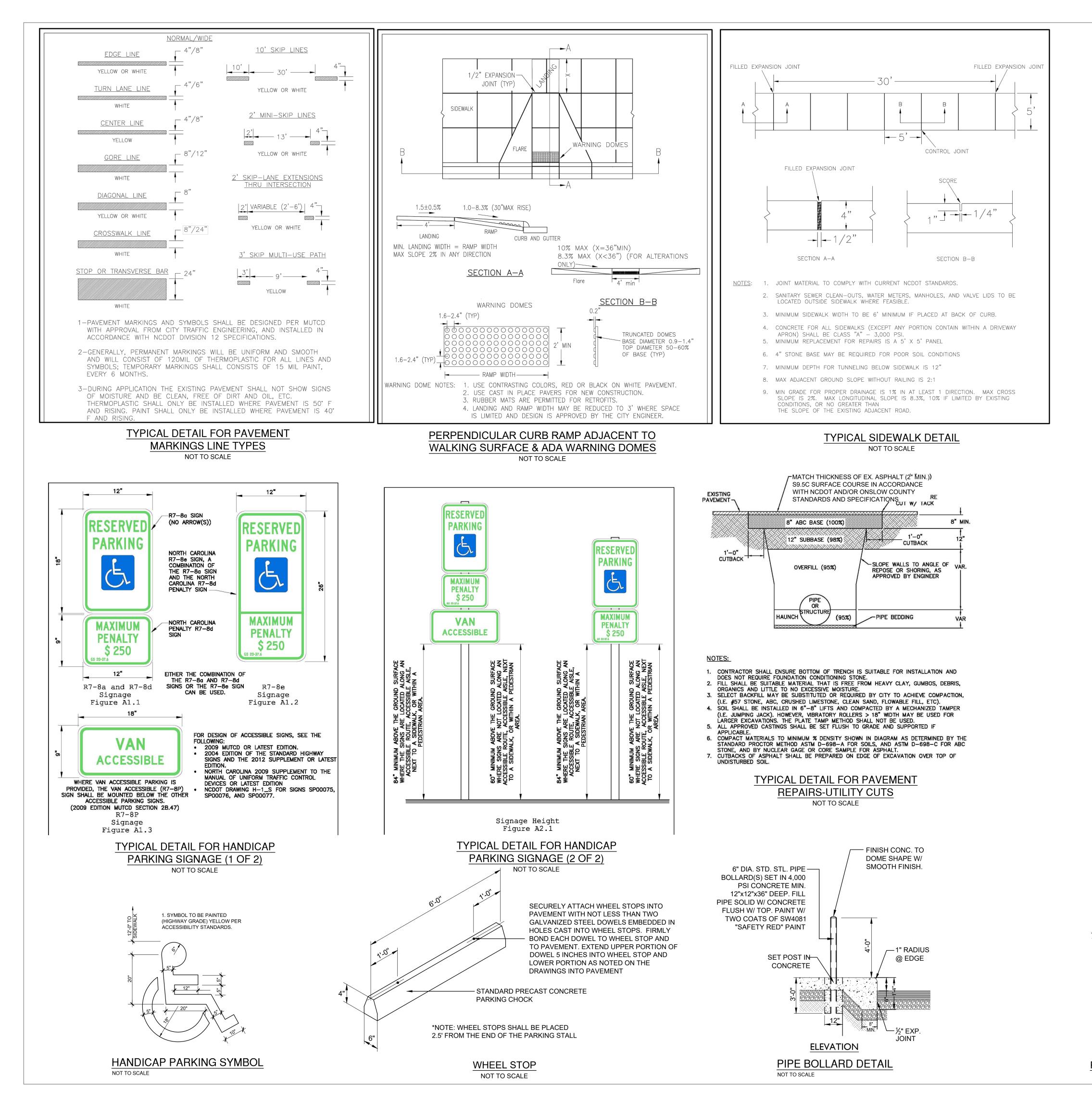
DRAWING LIST

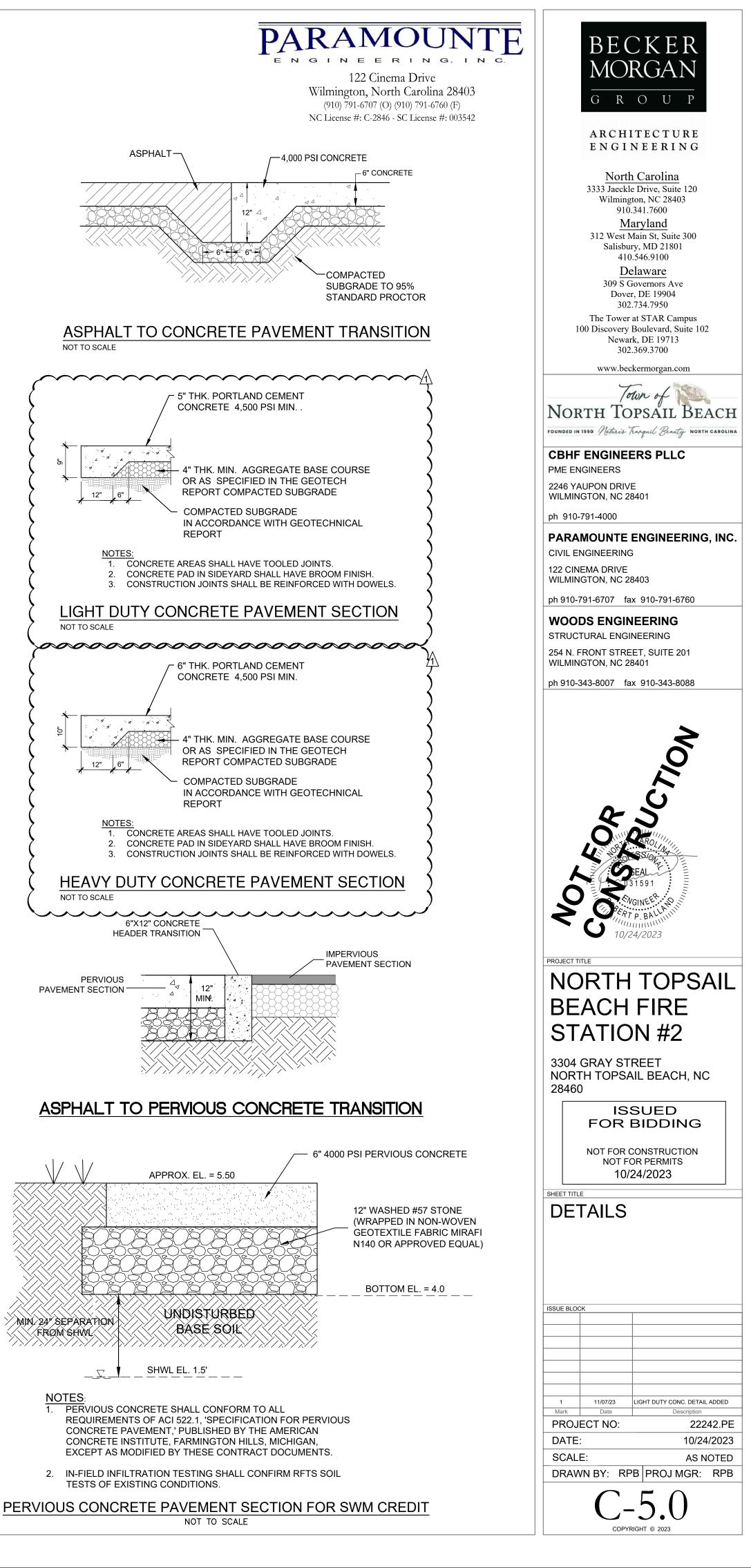
SHEET No.	SHEET TITLE
GENERAL	\sim
{ G001 G002	COVER SHEET
G002 G003	LIFE SAFETY PLAN
G501	U.L. RATED ASSEMBLIES - U905
G502 G503	U.L. RATED ASSEMBLIES - U419 U.L. RATED ASSEMBLIES - U419
	CONT'D
G504	U.L. RATED ASSEMBLIES - U419 CONT'D
G505	UL RATED ASSEMBLIES - U465
G506	UL RATED ASSEMBLIES - U465 CONT'D
G507	UL RATED ASSEMBLIES - U465
	CONT'D
CIVIL	
C-0.0	COVER SHEET
C-1.0 C-1.1	GENERAL NOTES GENERAL NOTES
EX-1	EXISTING CONDTIONS
C-2.0	DEMOLITION PLAN
C-2.1 C-3.0	SITE PLAN GRADING, DRAINAGE AND EROSION
	CONTROL PLAN
_~6 , 4.θ~~~~ C-5.0	UTHUTXPLAN 2 DETAILS
C-5.1	DETAILS
C-5.2	DETAILS
C-5.3	DETAILS
STRUCTURAL	
S1.01	GENERAL NOTES
\$1.02 \$1.03	GENERAL NOTES
(S2,01, , , ,	FQUNDATION PLAN
S2.02	SECOND FLOOR FRAMING PLAN
\$2.03 {\$3.01	ROOF FRAMING PLAN
\$4.01	FRAMING SECTIONS
S4.02	FRAMING SECTIONS
ARCHITEGIUR	
{ AD101	EXISTING BUILDING DEMOLITION $\frac{1}{2}$
A001	PLAN CONSTRUCTION TYPES - EXT.
	WALLS, SLABS, FLOORS, AND ROOFS
A002	CONSTRUCTION TYPES - EXTERIOR
	AND INTERIOR WALL TYPES
A003 A004	CONSTRUCTION TYPES - DETAILS CONSTRUCTION TYPES - SIGNAGE
A100	ARCHITECTURAL SITE PLAN /
A101	FIRST AND SECOND FLOOR PLAN
A102 A103	REFLECTED CEILING PLANS
	PLAN
A104 A201	ROOF PLAN EXTERIOR ELEVATIONS
A201 A202	EXTERIOR ELEVATIONS
A301	BUILDING SECTIONS
A302 A303	BUILDING SECTIONS WALL SECTIONS
-A304	WALLSECTIONS
A305	WALL SECTIONS
A401 A402	ENLARGED PLANS ENLARGED STAIR PLANS AND
	SECTIONS
A403	ENLARGED STAIR AND ELEVATOR SECTIONS
A501	PLAN DETAILS
A510 A520	SECTION DETAILS ROOF DETAILS
A521	ROOF DETAILS
A522	
A523 A524	ROOF DETAILS - ADD / ALT #2 ROOF DETAILS - ADD / ALT #2
A531	TYPICAL MANUFACTURER'S
A532	DETAILS - HARDIE PLANK TYPICAL MANUFACTURER'S
A332	DETAILS - ROOF
A533	TYPICAL MANUFACTURER'S DETAILS - ROOF
A534	TYPICAL MANUFACTURER'S
\A601	DOOR AND WINDOW TYPES AND
A602	STOREFRONT ELEVATIONS
A603	DOOR AND WINDOW HEAD AND JAMB DETAILS
A604	DOOR AND WINDOW JAMB AND SILL
A701	
A702	
·····	

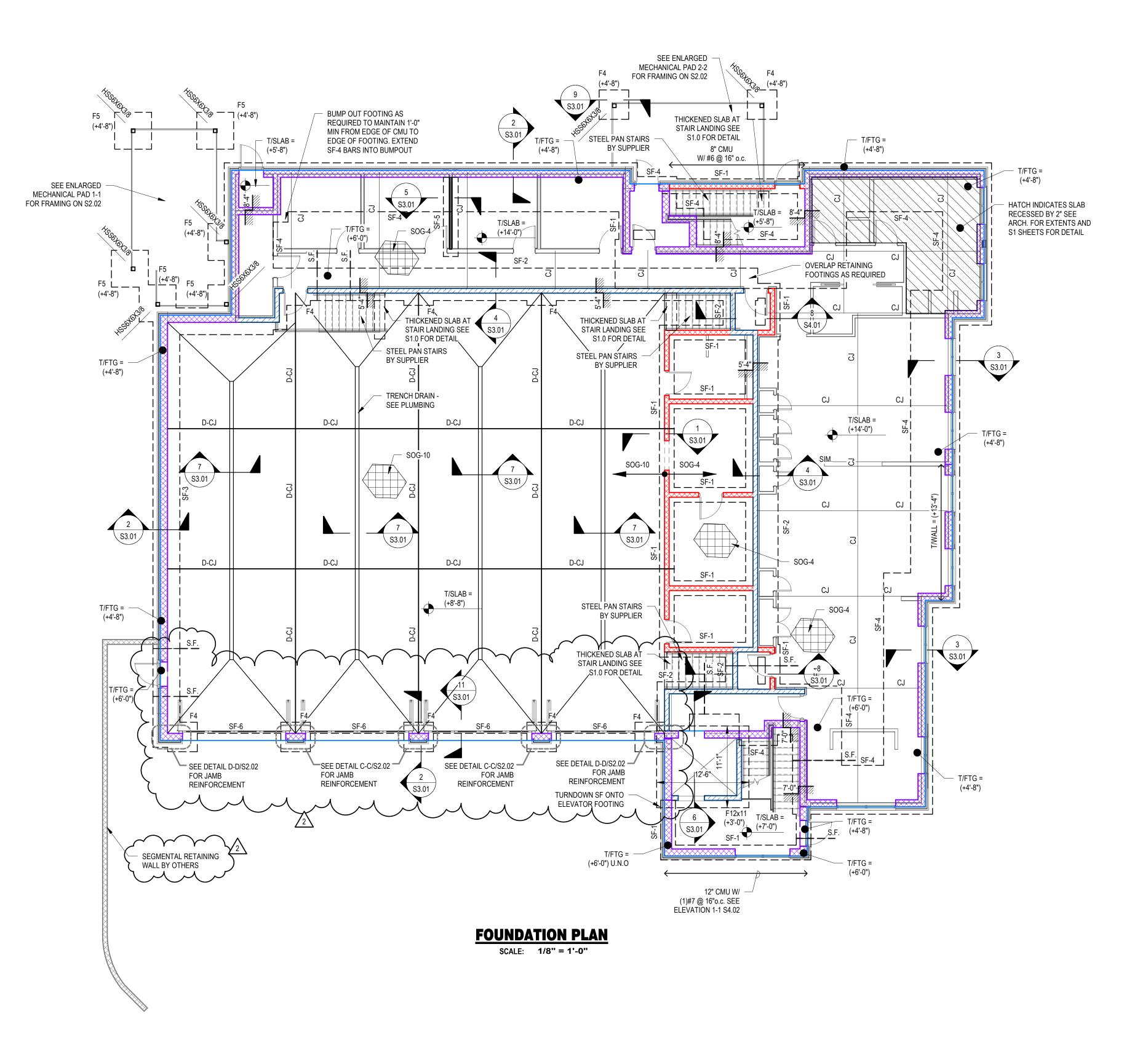
SHEET No.	SHEET TITLE
FIRE PROTECT	ΓΙΟΝ
FP001	GENERAL FIRE SPRINKLER NOTES
FP002	SITE PLAN
FP101 FP102	FIRST FLOOR FIRE SPRINKLER PLAN SECOND FLOOR FIRE SPRINKLER
TFTUZ	PLAN
FP301	BUILDING SECTIONS AND ISOMETRIC VIEWS
FIRE ALARM	
F001	ELECTRICAL FIRE ALARM LEGEND,
	NOTES, AND RISER
F002 F101	ELECTRICAL FIRE ALARM DETAILS ELECTRICAL FIRST FLOOR PLAN -
F 400	
F102	ELECTRICAL SECOND FLOOR - FIRE ALARM
PLUMBING	
P001	PLUMBING LEGEND,
	ABBREVIATIONS, LOADS AND NOTES
PS101	PLUMBING SANITARY WASTE-VENT
PS102	FIRST FLOOR PLAN PLUMBING SANITARY WASTE-VENT
	SECOND FLOOR PLAN
PW101	PLUMBING DOMESTIC WATER FIRST FLOOR PLAN
PW102	PLUMBING DOMESTIC WATER SECOND FLOOR PLAN
PG101	PLUMBING GAS PIPING FIRST
P501	FLOOR PLAN PLUMBING DETAILS
P502	PLUMBING SCHEDULE
P601	PLUMBING WASTE-VENT RISER
	DIAGRAMS
MECHANICAL	
M001	MECHANICAL SPECIFICATIONS, NOTES, LEGENDS AND
	ABBREVIATIONS
MH101	MECHANICAL HVAC FIRST FLOOR PLAN
MH102	MECHANICAL HVAC SECOND FLOOR PLAN
MH103	MECHANICAL HVAC ROOF PLAN
M501	
M502 M601	MECHANICAL DETAILS MECHANICAL SCHEDULES
M602	MECHANICAL SCHEDULES
	SCHEMATIC, AND SAFEAIR ELECTRICAL DIAGRAM
ELECTRICAL	
E001	
E002	ABBREVIATIONS
E003	ELECTRICAL RISER DIAGRAM AND
hun	SCHEDULES
E004 E005	ELECTRICAL SCHEDULES
E005	ELECTRICAL DETAILS
E007	ELECTRICAL LIGHTING FIXTURE
~E008~~~~	
EP100	ELECTRICAL ROOF PLAN - HVAC
EP101	POWER
EP102	POWER ELECTRICAL SECOND FLOOR PLAN -
EH101	POWER ELECTRICAL FIRST FLOOR PLAN -
	HVAC POWER
EH102	ELECTRICAL SECOND FLOOR PLAN - HVAC POWER
EL101	ELECTRICAL FIRST FLOOR PLAN - LIGHTING
EL102	ELECTRICAL SECOND FLOOR PLAN - LIGHTING



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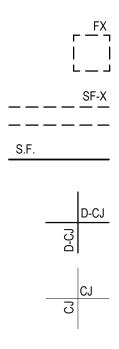






STRIP FOOTING (SF-x) SCHEDULE					SPREAD FOOTING (Fx) SCHEDULE						
REINFORCEMENT					WIDTH x LENGTH x	REINFO					
MARK	WIDTH x THICKNESS x LENGTH	TOP BARS	BOTTOM BARS	COMMENTS	MARK	THICKNESS	TOP BARS EACH WAY (U.N.O.)	BOTTOM BARS EACH WAY (U.N.O.)	COMMENTS		
SF-1	2'-8" x 1'-0" x CONT.	-	(3) #5		F4	4'-0" x 4'-0" x 1'-0"	N/A	(4) #5			
SF-2	4'-4" x 1'-6" x CONT.	(5) #5	(2) #5	TYP. T/FTG =+7'-4" U.N.O.	F5	5'-0" x 5'-0" x 1'-6"	N/A	(5) #5			
SF-3	3'-6" x 1'-6" x CONT.	(4) #5	(2) #5		F12x11	12'-0" x 11'-0" x 1'-0"		#5@12"o.c.	ELEVATOR FOOTING		
SF-4	6'-2" x 2'-0" x CONT.	(7) #6	(2) #5	TYP. T/FTG =+4'-8" U.N.O.			•				
~ ^{SF-5}	2'-0" x 1'-0" x CONT.										
SF-6	1'-0" x 1'-4" x CONT.	N/A	(2) #5	<u> </u>							
	MM	\mathcal{M}									

FOUNDATION LEGEND:



SPREAD FOOTING DESIGNATION SEE SCHEDULE THIS SHEET

STRIP FOOTING DESIGNATION SEE SCHEDULE THIS SHEET

INDICATES STEP FOOTING -SEE S1.0 SHEETS FOR TYPICAL DETAILS

INDICATES DOWELED CONTRACTION JOINTS, SEE DETAIL ON S3.01

INDICATES CONCRETE SLAB CONTRACTION JOINTS, SEE S1.0 SERIES SHEETS FOR TYPICAL DETAILS. SEE PLAN FOR LOCATIONS. MAXIMUM SPACING = 12' IN BOTH DIRECTIONS

LOAD BEARING CFS WALLS - FINAL DESIGN BY DD

INDICATES 8" WITH #5 @ CORNERS, JAMBS, AND 48"o.c. U.N.O.

INDICATES 8" CMU RETAINING WALL - #6 @

CORNERS JAMBS, AND 24" O.C. U.N.O INDICATES 12" CMU RETAINING WALL -WITH #7 @ 16"o.c. U.N.O.

FOUNDATION PLAN NOTES:

- 1. SEE S1.0 SERIES SHEETS FOR ADDITIONAL GENERAL NOTES, MATERIAL NOTES AND MATERIAL SPECIFICATIONS. ALSO, SEE S1.0 SERIES SHEETS FOR TYPICAL DETAILS. TYPICAL DETAILS ARE GENERALLY NOT SHOWN ON PLAN BUT RATHER ARE INTENDED TO DEFINE TYPICAL CONSTRUCTION CONDITIONS.
- 2. DATUM ELEVATION = 0.0' M.S.L. OTHER ELEVATIONS ARE NOTED AS (+ OR -) FROM DATUM ELEVATION.
- 3. TOP OF FOOTINGS SHALL BE (+7'-4") FROM DATUM ELEVATION, U.N.O.
- 4. SEE SLAB-ON-GRADE SCHEDULE THIS SHEET FOR SLAB REQUIREMENTS. ALL SLABS SHALL BE ON VAPOR RETARDER, ON 6" SELECT GRANULAR MATERIAL WITH LESS THAN 12% FINES PASSING #200 SIEVE (SP,SW,SP-SM OR SW-SM) OR APPROVED EQUAL ON WELL COMPACTED SUB GRADE. DO NOT USE MACRO-FIBERS AT EXTERIORS OR BROOM-FINISHED SLABS. VERIFY FILL MATERIALS AND COMPACTION WITH QUALIFIED GEOTECHNICAL ENGINEER. BROOM FINISHED SLABS SHALL BE REINFORCED WITH FLAT SHEETS OF WWM OR REBAR AS NOTED IN SCHEDLUE REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND OTHER DISCIPLINE DRAWINGS FOR OPENINGS AND DEPRESSIONS NOT SHOWN ON THESE DRAWINGS.
- 5. RELOCATE ANY UTILITY LINES THAT CONFLICT WITH THE FOUNDATIONS OR DROP THE FOUNDATIONS TO AN ELEVATION BELOW THE PROPOSED UTILITIES, RELOCATE ANY GRAVITY FLOW LINES THAT CONFLICT WITH SPREAD FOOTINGS AS SHOWN ON STRUCTURAL FOUNDATION PLANS. IF A GRAVITY FLOW LINE TRAVELS UNDER A CONTINUOUS STRIP FOOTING EITHER: a. DROP THE FOOTING ELEVATION BELOW THE PROPOSED LINE.
 - b. IF THE UTILITY LINE IS < 2'-0" BELOW THE STRIP FOOTING, THEN ENCASE THE LINE IN A STEEL PIPE 2" LARGER IN DIAMETER THAN THE LINE AND EXTEND THE PIPE 1'-0" PAST EACH SIDE OF THE CONCRETE FOOTING.
 - c. IF THE LINE IS ≥ 2'-0" BELOW BOTTOM OF FOOTING, THEN STEEL PIPE IS NOT REQUIRED. BACKFILL THE TRENCH WITH #57 STONE. THE BEARING CAPACITY OF
- THIS AREA MUST MEET OR EXCEED THE ALLOWABLE SOIL BEARING CAPACITY.
- 6. DIMENSIONS ARE FROM EDGE OF SLAB (E.O.S.) AND OUTSIDE FACE OF STUD (O.F.S.) / CMU (O.F.CMU.) TO COLUMN CENTERLINE UNLESS NOTED OTHERWISE.
- 7. WHEN A SECTION IS CUT OR A DETAIL IS LABELED FOR A PARTICULAR CONDITION, THAT SECTION OR DETAIL SHALL APPLY FOR ALL SIMILAR CONDITIONS REGARDLESS OF WHETHER CUT OR LABELED, U.N.O.

	SLAB ON GRADE SCHEDULE										
MARK	THICKNESS	CONCRETE STRENGTH	REINFORCEMENT	TYPICAL LOCATION	COMMENTS						
SOG-4	4"	3,000psi	WWM6x6xW2.0xW2.0 OR 3lb/cy MACROFIBER	NO	TYP INTERIOR	-					
SOG-4E	4"	4,000psi	WWM6x6xW2.0xW2.0	YES	TYP EXTERIOR	LIGHT BROOM FINISH					
SOG-8	8"	4,000psi	#4@16"o.c. TOP EACH WAY	YES	GENERATOR PAD	LIGHT BROOM FINISH					
SOG-10	10"	4,000psi	#5@16"o.c. TOP EACH WAY	NO	APPARATUS BAY	DOWELED CJ's					

BECKER MORGAN GROUI ARCHITECTURE

ENGINEERING <u>North Carolina</u> 3333 Jaeckle Drive, Suite 120

Wilmington, NC 28403 910.341.7600 <u>Maryland</u> 312 West Main St, Suite 300 Salisbury, MD 21801 410.546.9100 <u>Delaware</u>

309 S Governors Ave Dover, DE 19904 302.734.7950

The Tower at STAR Campus 100 Discovery Boulevard, Suite 102 Newark, DE 19713 302.369.3700

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North Topsail Beach FOUNDED IN 1990 Nature's Tranquil Beauty NORTH CAROLINA

CBHF ENGINEERS PLLC PME ENGINEERS

2246 YAUPON DRIVE WILMINGTON, NC 28401

ph 910-791-4000

PARAMOUNTE ENGINEERING, INC. CIVIL ENGINEERING

122 CINEMA DRIVE WILMINGTON, NC 28403

ph 910-791-6707 fax 910-791-6760

WOODS ENGINEERING STRUCTURAL ENGINEERING

254 N. FRONT STREET, SUITE 201 WILMINGTON, NC 28401

ph 910-343-8007 fax 910-343-8088



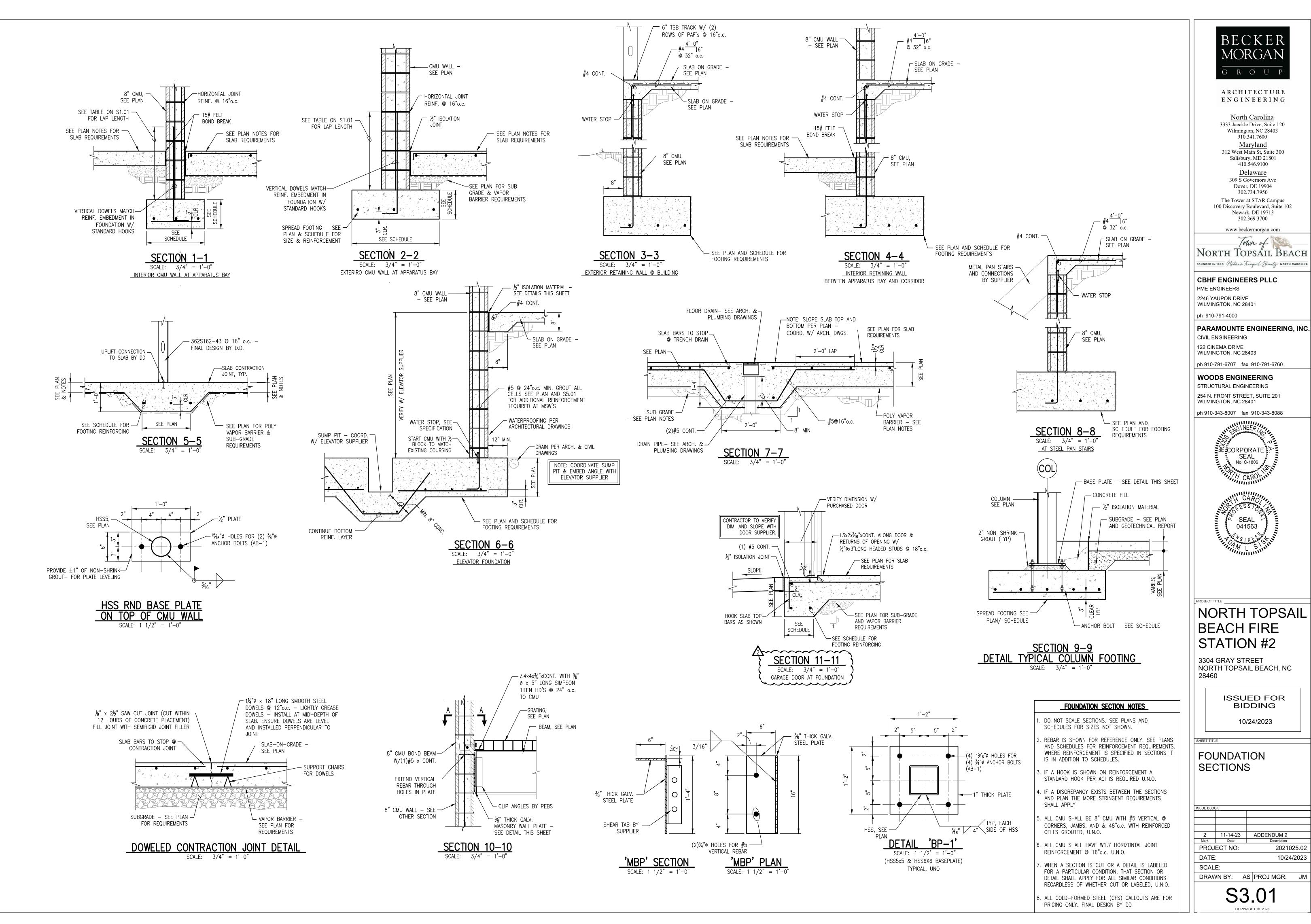


PROJECT TITLE NORTH TOPSAIL **BEACH FIRE** STATION #2

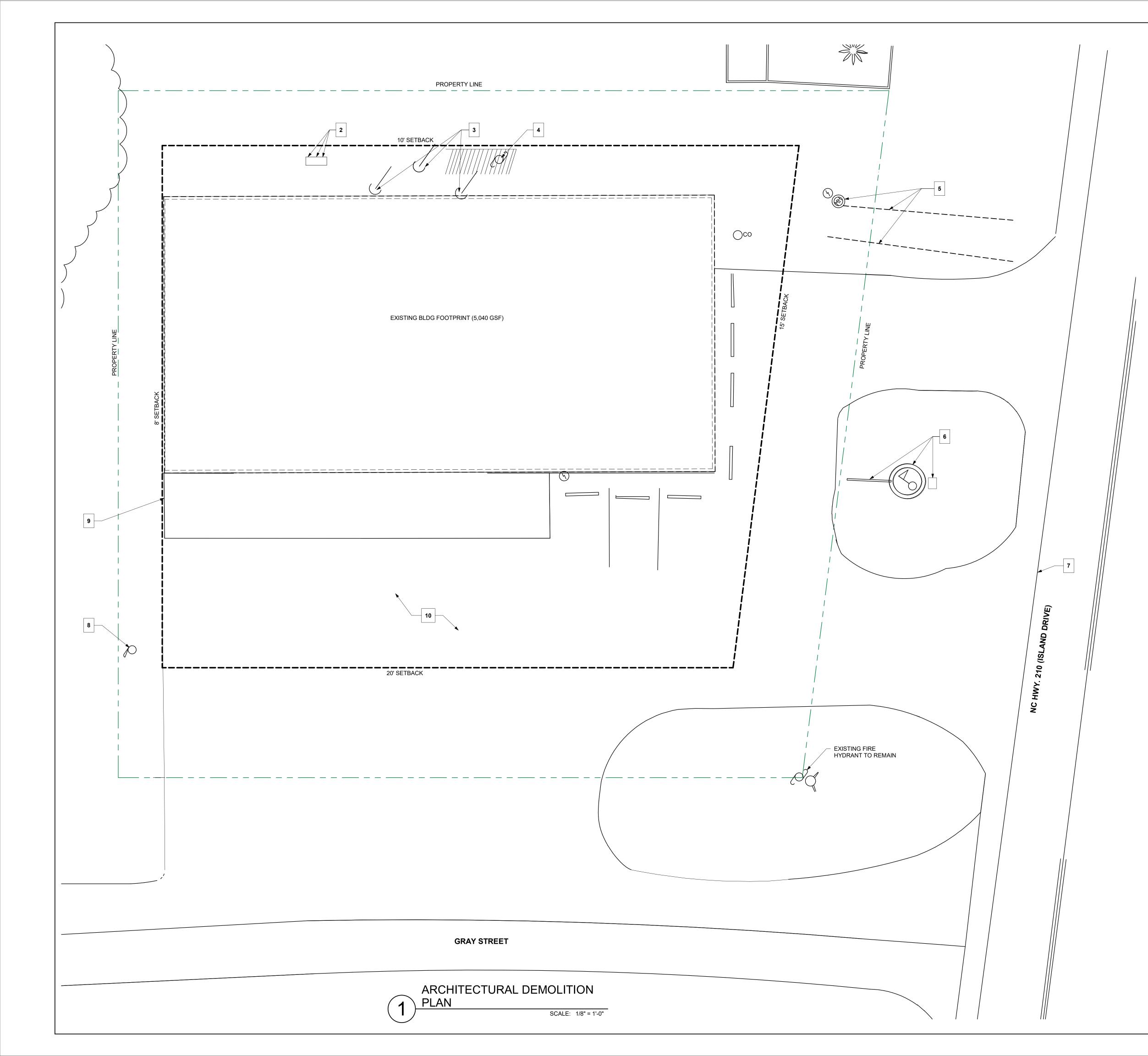
3304 GRAY STREET NORTH TOPSAIL BEACH, NC 28460

		ISSUED FOR BIDDING								
	10/24/2023									
HEE	ET TITL	E								
F	οι	JNDAT	ΓI	ON PLAN						
SU	E BLO	СК	-							
			-							
			-							
2		11.14.23	A	DDENDUM 2						
Ma		Date		Description						
PF	ROJ	ECT NO:		202102	5.02					
D	ATE	:		10/24/2	2023					
S	CAL	E:		As indic	ated					
D	RAV	N BY: A	S	PROJ MGR:	JM					
		S2)	01						

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#	DESCRIPTION
1	DEMOLISH THE EXISTING BUILDING, SLAB, FOUNDATION, SUPPORT
	STRUCTURES, AND REMOVE UTILITIES PER THE OWNER REQUIREMENTS IN ACCORDANCE WITH ALL PERMIT SPECIFICATIONS AND REQUIREMENTS
2	EXISTING PROPANE TANK AND METAL RODS SHALL BE REMOVED
3	ALL EXISTING ANTENNA EQUIPMENT SHALL BE REMOVED IN ITS ENTIRET
4	ALL EXISTING ELECTRICAL AND MECHANICAL EQUIPMENT SHALL BE REMOVED IN ITS ENTIRETY
5	EX. WATER SERVICE, FOREMAIN AND PUMPS STATION TO REMAIN UNDISTURBED AND PROTECTED THROUGHOUT CONSTRUCTION
6	EX. SIGN, FLAG POLE, & PLAQUE TO REMAIN
7	EXISTING DRIVEWAY SHALL BE REMOVED IN ITS ENTIRETY
8	CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS FOR RELOCATION OR REMOVAL
9	EXISTING CONCRETE TO BE REMOVED
10	EXISTING ASPHALT TO BE REMOVED ONLY. BASE TO REMAIN
11	EXISTING STORM STRUCTURE TO BE REMOVED
12	EXISTING WATER & SEWER SERVICES TO BE REMOVED
13	EXISTING TRANSFORMER, SIGN,LIGHT,PEDESTAL,UTILITY,POLE,ELECTRICAL,MECHANICAL TO BE REMOVED
14	EXISTING BUILDING STRUCTURE TO BE REMOVED
15	
16	

GENERAL NOTES

ALL DEMOLITION WORK.

∕2`

OWNER TO REMOVE, PROTECT, AND STORE ALL FURNITURE AND EQUIPMENT PRIOR TO COMMENCEMENT OF DEMOLITION ACTIVITY. FIELD VERIFY ALL EXISTING CONDITIONS. EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DEMOLITION OPERATIONS. COORDINATE EXTENT, OF DEMOLITION REQUIRED, WITH NEW, WORK. REFER TO SPEFICATIONS FOR ITEMS TO SALVAGE FOR OWNER. REFER TO SELECTIVE DEMOLITION SPECIFICATION FOR EQUIPMENT AND MATERIALS TO BE SALVAGED SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION AND EXTENTS OF

312 West Main St, Suite 300 Salisbury, MD 21801 410.546.9100 <u>Delaware</u> 309 S Governors Ave Dover, DE 19904 302.734.7950 The Tower at STAR Campus 100 Discovery Boulevard, Suite 102 Newark, DE 19713 302.369.3700

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ARCHITECTURE ENGINEERING

<u>North Carolina</u>

3333 Jaeckle Drive, Suite 120

Wilmington, NC 28403 910.341.7600

615 South College Street, Suite 8-158 Charlotte, NC 28202 980.270.9100 <u>Maryland</u>

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CBHF ENGINEERS PLLC

PME ENGINEERS 2246 YAUPON DRIVE WILMINGTON, NC 28401 ph 910-791-4000

PARAMOUNTE ENGINEERING, INC. CIVIL ENGINEERING 122 CINEMA DRIVE

WILMINGTON, NC 28403 ph 910-791-6707 fax 910-791-6760

WOODS ENGINEERING

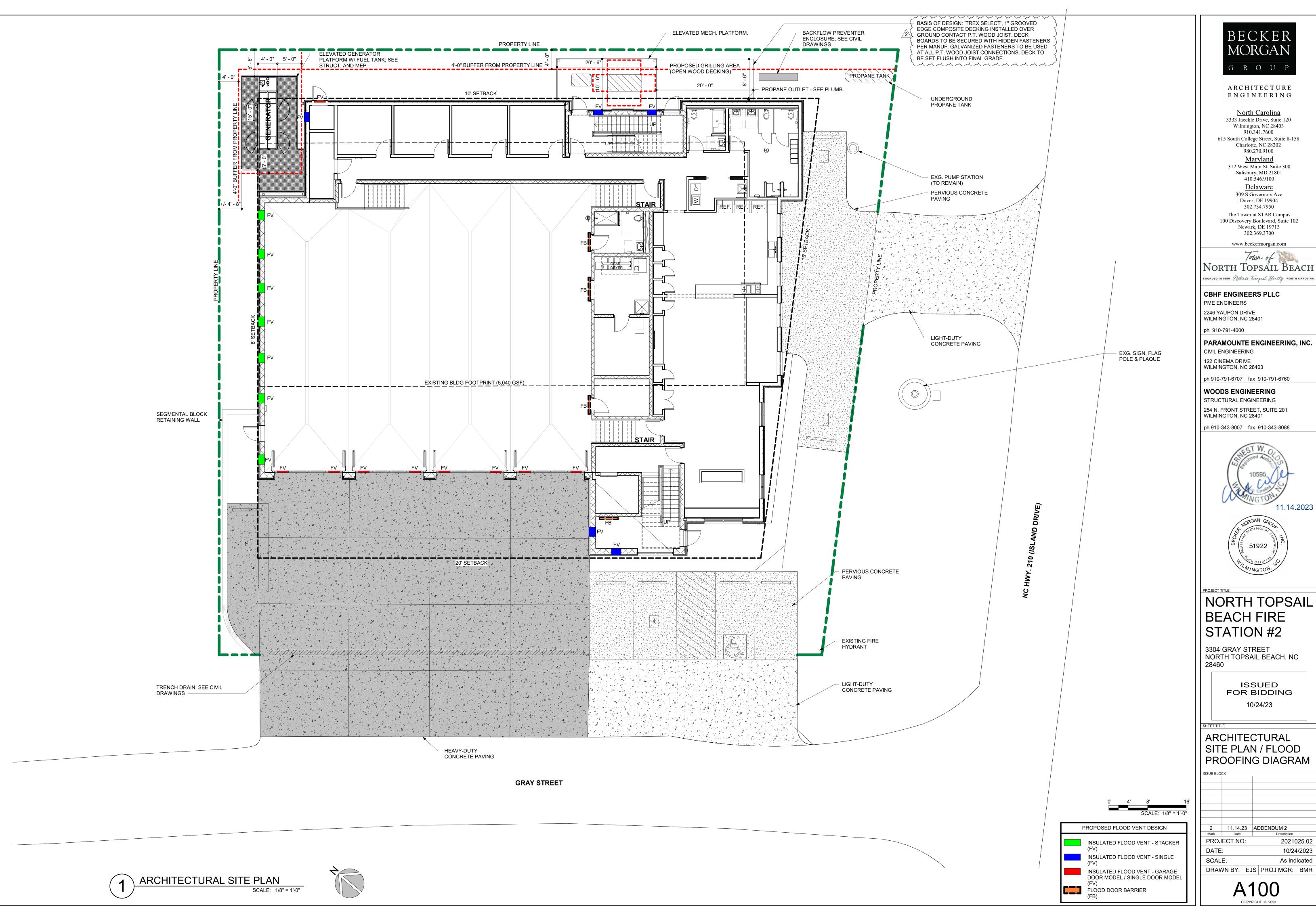
STRUCTURAL ENGINEERING 254 N. FRONT STREET, SUITE 201 WILMINGTON, NC 28401

ph 910-343-8007 fax 910-343-8088



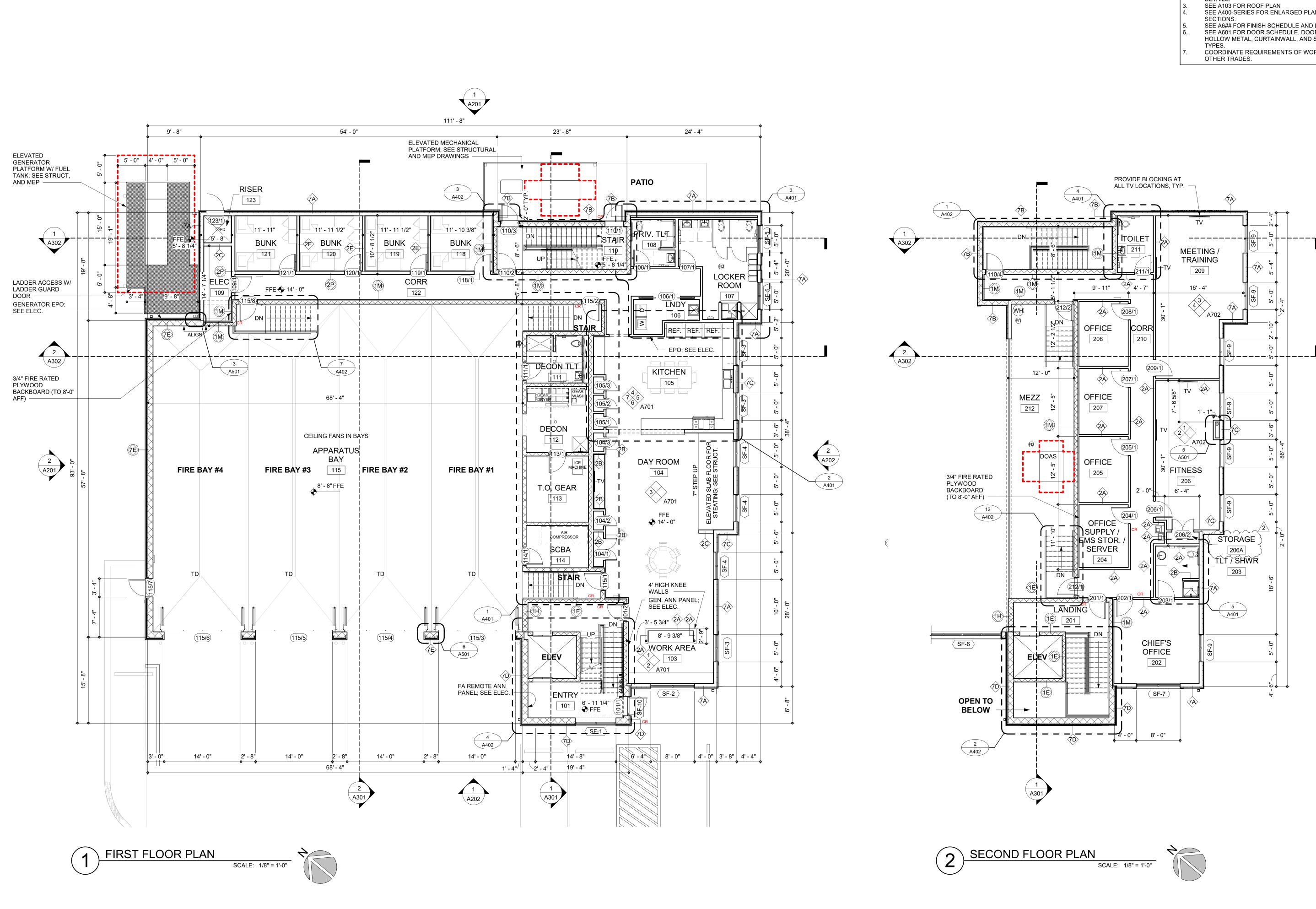
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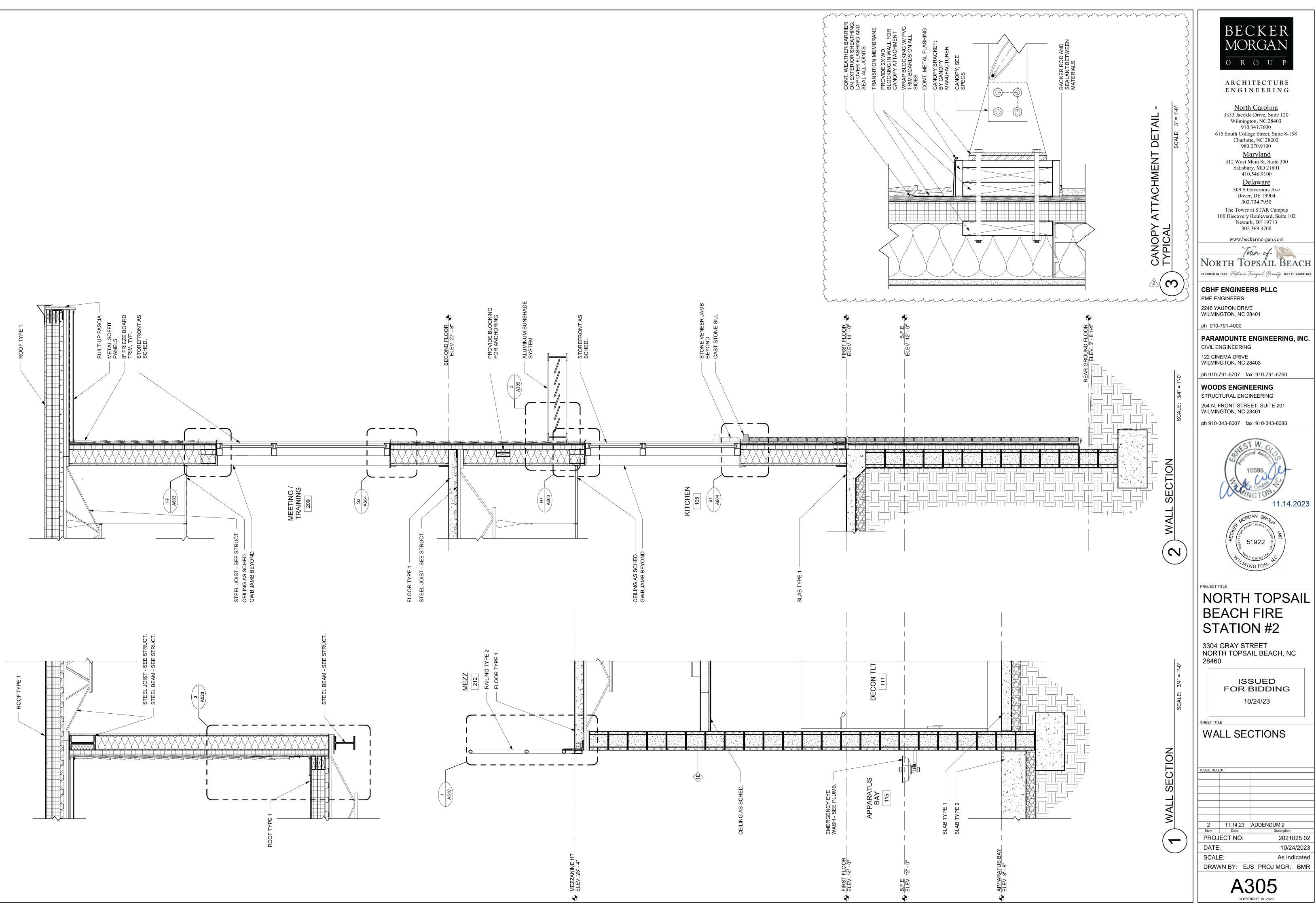


GENERAL NOTES

- DIMENSIONS ARE TO EXTERIOR FACE OF CONCRETE, MASONRY, OR METAL STUD UNLESS OTHERWISE NOTED.
- REFER TO A000-SERIES DRAWINGS FOR SLAB AND OTHER CONSTRUCTION TYPES AND TYPICAL
- DETAILS.
- SEE A400-SERIES FOR ENLARGED PLANS AND
- SEE A6## FOR FINISH SCHEDULE AND LEGEND.
- SEE A601 FOR DOOR SCHEDULE, DOOR TYPES AND HOLLOW METAL, CURTAINWALL, AND STOREFRONT
- COORDINATE REQUIREMENTS OF WORK WITH ALL

BECKER MORGAN G R O U P ARCHITECTURE ENGINEERING <u>North Carolina</u> 3333 Jaeckle Drive, Suite 120 Wilmington, NC 28403 910.341.7600 615 South College Street, Suite 8-158 Charlotte, NC 28202 980.270.9100 Maryland 312 West Main St, Suite 300 Salisbury, MD 21801 410.546.9100 Delaware 309 S Governors Ave Dover, DE 19904 302.734.7950 The Tower at STAR Campus 100 Discovery Boulevard, Suite 102 Newark, DE 19713 302.369.3700 www.beckermorgan.com Town of North Topsail Beach FOUNDED IN 1990 Nature's Tranquil Beauty NORTH CAROLIN. **CBHF ENGINEERS PLLC** PME ENGINEERS 2246 YAUPON DRIVE WILMINGTON, NC 28401 ph 910-791-4000 PARAMOUNTE ENGINEERING, INC. CIVIL ENGINEERING 122 CINEMA DRIVE WILMINGTON, NC 28403 ph 910-791-6707 fax 910-791-6760 WOODS ENGINEERING STRUCTURAL ENGINEERING 254 N. FRONT STREET, SUITE 201 WILMINGTON, NC 28401 ph 910-343-8007 fax 910-343-8088 10595 MINGTON C 11.14.2023 51922 PROJECT TITLE NORTH TOPSAIL **BEACH FIRE** STATION #2 3304 GRAY STREET NORTH TOPSAIL BEACH, NC 28460 ISSUED FOR BIDDING 10/24/23 SHEET TITLE FIRST AND SECOND FLOOR PLAN 16' SCALE: 1/8" = 1'-0" SSUE BLOCK 2 11.14.23 ADDENDUM 2 Mark Date Description Description 2021025.02 PROJECT NO: 10/24/2023 DATE: 1/8" = 1'-0" SCALE: DRAWN BY: EJS PROJ MGR: BMR A101

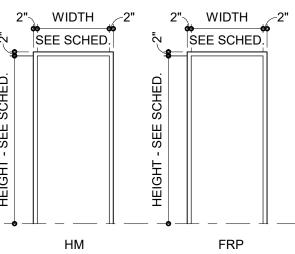
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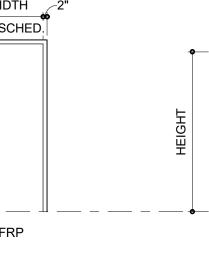


		<u>/1</u>		FINI	SH SCHEDU	JLE						GENERA	L FINISH N	UIES		
	FLOOR		NORTH		WALL CEILING EAST SOUTH							I. REVIEW ALL FIELD CO			VE SIZE	
# BOOM	M NAME MAT PAT	BASE MAT	NORTH MAT FIN	MAT	EAST FIN	MAT	SOUTH FIN	MAT	WEST	FIN COM	MMENTS	ALL DISCREPANCIES ARCHITECT THAT CO		ED BY THE BES OR TRANSITIONS	MARK WIDTH HT	
												PRIOR TO PROCEEDI DISCREPANCIES.				
AR GROUND FLOOF 110 STAIR	DR LVT-2		CMU PT	CMU	PT	CMU	PT	CMU	PT	PT/ACT-1		2. ALL FINISHES SHALL			REAR GROUND FLOOR 110/1 3' - 0" 7' - 2"	
TTU STAIR	LVI-2	-		CMO	FI	CIND	FI	CIVIO		F1/ACI-I		SPREAD. REFER TO I B. REFER TO ELEVATIO	NISH AND MATERIAL S		123/1 3' - 0" 7' - 2"	
NT GROUND FLOC												DETAILS FOR ADDITIC	NAL NFORMATION RE	GARDING FINISHES,		
101 ENTRY	LVT-2	-	CMU PT	CMU	PT	CMU	PT	CMU	PT	PT/ACT-1		PATTERNS, ORIENTA PREPARE SURFACES			FRONT GROUND FLOOR 101/1 3' - 2" 7' - 0"	
PARATUS BAY												INSTRUCTIONS PRIO SURFACES TO RECE				
111 DECON TLT			CMU PT	CMU	PT	CMU	PT	CMU	PT	PT		OF IRREGULARITIES.			APPARATUS BAY	
112 DECON 113 T.O. GEAR	EXP-1 R EXP-1		CMU PT CMU PT	CMU	PT PT	CMU	PT PT	CMU	PT PT	PT PT		5. PREPARE SLAB TO R STRUCTURALLY BON			<u>111/1</u> 3' - 0" 7' - 2" <u>113/1</u> 3' - 0" 7' - 2"	
113 T.O. GEAR 114 SCBA	EXP-1 EXP-1		CMU PT CMU PT	CMU CMU	PT	CMU CMU	PT	CMU CMU	PT	PT PT		FLASH PATCHING RE	QUIRED TO LEVEL AND	SMOOTH FLOOR TO	<u>113/1</u> 3' - 0" 7' - 2" <u>114/1</u> 3' - 0" 7' - 2"	
115 APPARATUS			CMU PT	CMU	PT	CMU	PT	CMU	PT	EXPO		1/8" IN 20'-0" NON-CUN AS FLATTER AND MO			115/3 14' - 0" 14' - 0"	
												FREE FROM SCALING	AND		115/4 14' - 0" 14' - 0"	
ST FLOOR 103 WORK ARE	EA LVT-1	RB-1	GWB PT	GWB	PT	GWB	PT	GWB	PT	ACT-1 ADD/ALT #1		IRREGULARITIES AND ACIDITY AND ALKALIN			115/5 14' - 0" 14' - 0" 115/6 14' - 0" 14' - 0"	
104 DAY ROOM			GWB PT	GWB	PT	GWB	PT	GWB	PT	ACT-1 ADD/ALT #1		COMPOUNDS AND OT			115/7 3' - 0" 7' - 2"	
105 KITCHEN	LVT-1		GWB PT	GWB	PT	GWB	PT	GWB	PT	ACT-1 ADD/ALT #1		PERFORMANCE AND/ FLOORING.	OR ADHESION OF THE	SCHEDULED		
106 LNDY 107 LOCKER RC	LVT-1 ROOM PFT-1	RB-1 WTB-1	GWB PT GWB WT-1	GWB GWB	PT WT-1	GWB GWB	PT WT-1	GWB GWB	PT WT-1	ACT-1 PT		6. LOCATE FLOOR FINIS		NTERLINE OF DOOR,	FIRST FLOOR 101/2 3' - 0" 7' - 2" 5	
107 EOCKER RC 108 PRIV. TLT	PFT-1	WTB-1		GWB	WT-1	GWB	WT-1	GWB	WT-1	PT		UNLESS OTHERWISE 7. PROVIDE COMPLETE		IN ALL REVEAL	104/1 4' - 0" 7' - 2"	
109 ELEC	VCT-1		GWB PT	GWB	PT	GWB	PT	GWB	PT	EXPO STATIC DISSIPA	ATIVE	LOCATIONS. FINISH T		SURFACE FINISH,	104/2 2' - 0" 7' - 2" 5	
118 BUNK	LVT-1		GWB PT	GWB	PT	GWB	PT	GWB	PT	ACT-1 ADD/ALT #1		UNLESS NOTED OTH 3. SEE SPECIFICATIONS	FOR APPROPRIATE P		104/3 2' - 0" 7' - 2" 5	
119 BUNK 120 BUNK	LVT-1		GWB PT GWB PT	GWB GWB	PT PT	GWB GWB	PT PT	GWB GWB	PT PT	ACT-1 ADD/ALT #1 ACT-1 ADD/ALT #1		 USE PRIMER COMPA[®] 	IBLE WITH SUBSTRAT	E TO BE PAINTED AND	105/1 2' - 0" 7' - 2" 5 105/2 2' - 0" 7' - 2" 5	
120 BUNK 121 BUNK	LVT-1		GWB PT	GWB	PT	GWB	PT	GWB	PT	ACT-1 ADD/ALT#1			MATCH ARCHITECTS S	PECIFIED FINISH. TINT	105/3 2'-0" 7'-2"	
122 CORR	LVT-2	RB-2	GWB PT	GWB	PT	GWB	PT	GWB	PT	ACT-1		EACH PRIME AND SU	BCOAT DIFFERENTLY		106/1 5' - 0" 7' - 0" 5	
123 RISER	CONC-1	-	CMU PT	CMU	PT	CMU	PT	CMU	PT	EXPO				. SPRAY APPLICATION	107/1 3' - 0" 7' - 2" 5	
COND FLOOR													UNLESS APPROVED B	Y THE ARCHITECT.	108/1 3' - 0" 7' - 2" 5 109/1 3' - 0" 7' - 2" 5	
201 LANDING	-		GWB PT	GWB	PT	GWB	PT	GWB	PT	ACT-1		NOTED OR APPROVE	D BY ARCHITECT.		110/2 3' - 0" 7' - 2" S	
202 CHIEF'S OF			GWB PT	GWB	PT	GWB	PT	GWB	PT	ACT-1 ADD/ALT #1		2. PAINT AND FINISH EX			110/3 3' - 0" 7' - 2"	
203 TLT / SHWR 204 OFFICE SUF	/R PFT-1 JPPLY / EMS VCT-1	WTB-1 RB-1	GWB WT-1 GWB PT	GWB GWB	WT-1 PT	GWB GWB	WT-1 PT	GWB GWB	WT-1 PT	PT ADD/ALT #1 ACT-1 STATIC DISSIPA		EQUIPMENT/FURNITU	RE. PAINT BEHIND NO		115/1 3' - 0" 7' - 2" 5 115/2 3' - 0" 7' - 2" 5	
STOR. / SEF		KD-1		GVVD		GVVD		GVVD	Г			WITH PRIME COAT ON 13. LAY RESILIENT FLOO	ILY.		115/2 3'-0" 7'-2" 3 115/8 3'-0" 7'-2" 3	
205 OFFICE	LVT-1	RB-1		GWB	PT	GWB	PT	GWB	PT	ACT-1 ADD/ALT #1		AS NOTED, OR IF NOT	NOTED AS DIRECTED		118/1 3' - 0" 7' - 2" 5	
206 FITNESS	RBF-1		GWB PT GWB PT	GWB	PT PT	GWB	PT PT	GWB GWB	PT PT	ACT-1 ADD/ALT #1		OWNER/ARCHITECT. 4. GRILLES. PLATES. DIF			119/1 3'-0" 7'-2" S	
206A STORAGE 207 OFFICE	LVT-1		GWB PT	GWB GWB	PT	GWB GWB	PT	GWB	PT	ACT-1 ADD/ALT #1		WALLS OR CEILING S	HALL BE FACTORY FIN	ISHED IN PAINT OF	120/1 3' - 0" 7' - 2" 5 121/1 3' - 0" 7' - 2" 5	
208 OFFICE	LVT-1		GWB PT	GWB	PT	GWB	PT	GWB	PT	ACT-1 ADD/ALT #1		COLOR AND SHEEN T OCCUR UNLESS OTH		ON WHICH THEY		
209 MEETING /			GWB PT	GWB	PT	GWB	PT	GWB	PT	ACT-1 ADD/ALT #1		15. PRIME ALL MATERIAL	PRIOR TO PAINTING.		SECOND FLOOR	
210 CORR 211 TOILET	LVT-2 PFT-1		GWB PT	GWB	PT	GWB	PT	GWB	PT			SEALANT TO BE APPL			110/4 3' - 0" 7' - 2" 3	
				CM/P	\A/T 4				••	ACT-1 ADD/ALT #1						
		WTB-1		GWB CMU	WT-1 PT	GWB	WT-1	GWB	WT-1	PT		AND TILE FLOORING. FRAMES.	SEALANT TO MATCH C		201/1 3' - 0" 7' - 2" 5 202/1 3' - 0" 7' - 2" 5	
	EXP-1			GWB CMU	WT-1 PT				••			AND TILE FLOORING. FRAMES. I7. CLEANING AND PROT	SEALANT TO MATCH (ECTION.	COLOR OF DOOR	201/1 3' - 0" 7' - 2" 5 202/1 3' - 0" 7' - 2" 5 203/1 3' - 0" 7' - 2" 5	
						GWB	WT-1	GWB	WT-1	PT		AND TILE FLOORING. FRAMES. 17. CLEANING AND PROT a) COMPLY W INSTRUCTION	SEALANT TO MATCH C ECTION. TH MANUFACTURER'S S FOR CLEANING AND	OLOR OF DOOR	202/1 3' - 0" 7' - 2" 9 203/1 3' - 0" 7' - 2" 9 204/1 3' - 0" 7' - 2" 9	
						GWB	WT-1	GWB	WT-1	PT		AND TILE FLOORING. FRAMES. I7. CLEANING AND PROT a) COMPLY W INSTRUCTION FLOOR COVE	SEALANT TO MATCH C ECTION. TH MANUFACTURER'S S FOR CLEANING AND RINGS.	OLOR OF DOOR WRITTEN PROTECTION OF	202/1 3' - 0" 7' - 2" 9 203/1 3' - 0" 7' - 2" 9 204/1 3' - 0" 7' - 2" 9 205/1 3' - 0" 7' - 2" 9	
				CMU		GWB CMU	WT-1	GWB	WT-1	PT		AND TILE FLOORING. FRAMES. I7. CLEANING AND PROT a) COMPLY W INSTRUCTION FLOOR COVE b) IMMEDIATE INSTALLATION	SEALANT TO MATCH C ECTION. TH MANUFACTURER'S S FOR CLEANING AND RINGS. LY AFTER COMPLETIN I:	OLOR OF DOOR WRITTEN PROTECTION OF G FLOOR COVERING	202/1 3' - 0" 7' - 2" 9 203/1 3' - 0" 7' - 2" 9 204/1 3' - 0" 7' - 2" 9	
212 MEZZ			CMU PT	CMU FINISH S	PT	GWB CMU	WT-1	GWB CMU	WT-1	PT		AND TILE FLOORING. FRAMES. I7. CLEANING AND PROT a) COMPLY W INSTRUCTION FLOOR COVE b) IMMEDIATE INSTALLATION 1. REM	SEALANT TO MATCH C ECTION. TH MANUFACTURER'S S FOR CLEANING AND RINGS. LY AFTER COMPLETIN	OLOR OF DOOR WRITTEN PROTECTION OF G FLOOR COVERING DTHER BLEMISHES	202/1 3' - 0" 7' - 2" 9 203/1 3' - 0" 7' - 2" 9 204/1 3' - 0" 7' - 2" 9 205/1 3' - 0" 7' - 2" 9 206/1 3' - 0" 7' - 2" 9 206/2 4' - 0" 7' - 2" 9 206/2 4' - 0" 7' - 2" 9 207/1 3' - 0" 7' - 2" 9	
212 MEZZ EY NAME OOR	DESCRIPTION	-	CMU PT	CMU FINISH S	PT	GWB CMU	WT-1 PT	GWB CMU	WT-1 PT	PT EXPO		AND TILE FLOORING. FRAMES. I7. CLEANING AND PROT a) COMPLY W INSTRUCTION FLOOR COVE b) IMMEDIATE INSTALLATION 1. REM FROM 2. SW	SEALANT TO MATCH C ECTION. TH MANUFACTURER'S S FOR CLEANING AND RINGS. LY AFTER COMPLETIN I: IOVE ADHESIVE AND C FLOOR COVERING SL EEP AND VACUUM FLC	OLOR OF DOOR WRITTEN PROTECTION OF G FLOOR COVERING OTHER BLEMISHES IRFACES.	202/1 3' - 0" 7' - 2" 9 203/1 3' - 0" 7' - 2" 9 204/1 3' - 0" 7' - 2" 9 205/1 3' - 0" 7' - 2" 9 206/1 3' - 0" 7' - 2" 9 206/2 4' - 0" 7' - 2" 9 206/2 4' - 0" 7' - 2" 9 207/1 3' - 0" 7' - 2" 9 208/1 3' - 0" 7' - 2" 9	
212 MEZZ EY NAME OOR NO FINISH	DESCRIPTION SH REQUIRED	SPEC. REF	CMU PT	CMU FINISH SO PRO	PT	GWB CMU	WT-1 PT	GWB CMU	WT-1 PT	PT EXPO		AND TILE FLOORING. FRAMES. I7. CLEANING AND PROT a) COMPLY W INSTRUCTION FLOOR COVE b) IMMEDIATE INSTALLATION 1. REM FROM 2. SW THOR 3. DAM	SEALANT TO MATCH C ECTION. TH MANUFACTURER'S S FOR CLEANING AND RINGS. LY AFTER COMPLETIN I: IOVE ADHESIVE AND C FLOOR COVERING SL EEP AND VACUUM FLC DUGHLY. IP-MOP FLOOR COVEF	OLOR OF DOOR WRITTEN PROTECTION OF G FLOOR COVERING OTHER BLEMISHES IRFACES. OOR COVERINGS	202/1 3' - 0" 7' - 2" 9 203/1 3' - 0" 7' - 2" 9 204/1 3' - 0" 7' - 2" 9 205/1 3' - 0" 7' - 2" 9 206/1 3' - 0" 7' - 2" 9 206/2 4' - 0" 7' - 2" 9 206/2 4' - 0" 7' - 2" 9 207/1 3' - 0" 7' - 2" 9	
212 MEZZ EY NAME DOR NO FINISH X-1 EPOXY C	EXP-1 DESCRIPTION SH REQUIRED COATING	- SPEC. REF	CMU PT MANUFACTURER DUR-A-FLEX	CMU FINISH SO PRO	PT CHEDULE L DUCT (NAME/#)	GWB CMU .EGEND	WT-1 PT	GWB CMU	WT-1 PT	PT EXPO		AND TILE FLOORING. FRAMES. I7. CLEANING AND PROT a) COMPLY W INSTRUCTION FLOOR COVE b) IMMEDIATE INSTALLATION 1. REM FROM 2. SW THOR 3. DAM MARK	SEALANT TO MATCH C ECTION. TH MANUFACTURER'S S FOR CLEANING AND RINGS. LY AFTER COMPLETIN I: IOVE ADHESIVE AND C FLOOR COVERING SL EEP AND VACUUM FLC DUGHLY. IP-MOP FLOOR COVER S AND SOIL.	COLOR OF DOOR WRITTEN PROTECTION OF G FLOOR COVERING OTHER BLEMISHES IRFACES. OOR COVERINGS RINGS TO REMOVE	202/1 3' - 0" 7' - 2" 9 203/1 3' - 0" 7' - 2" 9 204/1 3' - 0" 7' - 2" 9 205/1 3' - 0" 7' - 2" 9 206/1 3' - 0" 7' - 2" 9 206/2 4' - 0" 7' - 2" 9 207/1 3' - 0" 7' - 2" 9 208/1 3' - 0" 7' - 2" 9 209/1 3' - 0" 7' - 2" 9 211/1 3' - 0" 7' - 2" 9 212/1 3' - 0" 7' - 2" 9	
212 MEZZ EY NAME DOR NO FINISH X-1 EPOXY CO X-2 EPOXY CO	EXP-1 DESCRIPTION SH REQUIRED COATING	SPEC. REF	CMU PT	CMU FINISH SO PRO	PT CHEDULE L DUCT (NAME/#)	GWB CMU	WT-1 PT	GWB CMU	WT-1 PT	PT EXPO		AND TILE FLOORING. FRAMES. I7. CLEANING AND PROT a) COMPLY W INSTRUCTION FLOOR COVE b) IMMEDIATE INSTALLATION 1. REM FROM 2. SW THOR 3. DAM MARK c). PROTECT I REMAINDER (SEALANT TO MATCH C ECTION. TH MANUFACTURER'S S FOR CLEANING AND RINGS. LY AFTER COMPLETIN I: 10VE ADHESIVE AND C FLOOR COVERING SL EP AND VACUUM FLC DUGHLY. 1P-MOP FLOOR COVER S AND SOIL. FLOOR COVERINGS FR OF CONSTRUCTION.	OLOR OF DOOR WRITTEN PROTECTION OF G FLOOR COVERING OTHER BLEMISHES IRFACES. OOR COVERINGS RINGS TO REMOVE	202/1 3' - 0" 7' - 2" 9 203/1 3' - 0" 7' - 2" 9 204/1 3' - 0" 7' - 2" 9 205/1 3' - 0" 7' - 2" 9 206/1 3' - 0" 7' - 2" 9 206/2 4' - 0" 7' - 2" 9 207/1 3' - 0" 7' - 2" 9 208/1 3' - 0" 7' - 2" 9 209/1 3' - 0" 7' - 2" 9 211/1 3' - 0" 7' - 2" 9	
212 MEZZ EY NAME OOR X-1 EPOXY CO X-2 EPOXY CO T-1 LUXURY Y T-2 LUXURY Y	EXP-1 DESCRIPTION SH REQUIRED COATING COATING (VINYL TILE (VINYL TILE	- SPEC. REF	CMU PT MANUFACTURER DUR-A-FLEX DUR-A-FLEX MOHAWK MOHAWK	CMU FINISH SO PRO SHOP FLOOR SHOP FLOOR LARGE AND LO LARGE AND LO	PT CHEDULE L DUCT (NAME/#) OCAL OCAL	GWB CMU EGEND	WT-1 PT	GWB CMU	WT-1 PT SIZE 9.25"x59" 9.25"x59"	PT EXPO		AND TILE FLOORING. FRAMES. I7. CLEANING AND PROT a) COMPLY W INSTRUCTION FLOOR COVE b) IMMEDIATE INSTALLATION 1. REM FROM 2. SW THOR 3. DAM MARK c). PROTECT I REMAINDER (1. 1/8"	SEALANT TO MATCH C ECTION. TH MANUFACTURER'S S FOR CLEANING AND RINGS. LY AFTER COMPLETIN I: 10VE ADHESIVE AND C FLOOR COVERING SL EEP AND VACUUM FLC DUGHLY. 1P-MOP FLOOR COVER S AND SOIL. FLOOR COVERINGS FR OF CONSTRUCTION. MASONITE SMOOTH E	OLOR OF DOOR WRITTEN PROTECTION OF G FLOOR COVERING OTHER BLEMISHES IRFACES. OOR COVERINGS RINGS TO REMOVE	202/1 3' - 0" 7' - 2" 9 203/1 3' - 0" 7' - 2" 9 204/1 3' - 0" 7' - 2" 9 205/1 3' - 0" 7' - 2" 9 206/1 3' - 0" 7' - 2" 9 206/2 4' - 0" 7' - 2" 9 207/1 3' - 0" 7' - 2" 9 208/1 3' - 0" 7' - 2" 9 209/1 3' - 0" 7' - 2" 9 211/1 3' - 0" 7' - 2" 9 212/1 3' - 0" 7' - 2" 9	
212 MEZZ EY NAME OOR X-1 EPOXY CO X-2 EPOXY CO X-2 EPOXY CO T-1 LUXURY N T-2 LUXURY N T-1 PORCELA	EXP-1 DESCRIPTION SH REQUIRED COATING COATING (VINYL TILE (VINYL TILE AIN FLOOR TILE	- SPEC. REF - 096723 096723 096519 096519 096519 093013	CMU PT MANUFACTURER DUR-A-FLEX DUR-A-FLEX MOHAWK MOHAWK AMERICAN OLEAN	CMU FINISH SO PRO SHOP FLOOR SHOP FLOOR LARGE AND LO LARGE AND LO HISTORIC BRI	PT CHEDULE L DUCT (NAME/#) OCAL OCAL	GWB CMU EGEND	WT-1 PT	GWB CMU	WT-1 PT SIZE 9.25"x59" 9.25"x59" 6"x36"	PT EXPO		AND TILE FLOORING. FRAMES. I7. CLEANING AND PROT a) COMPLY W INSTRUCTION FLOOR COVE b) IMMEDIATE INSTALLATION 1. REM FROM 2. SW THOR 3. DAM MARK c). PROTECT I REMAINDER (1. 1/8" TRAFF 2. 5MM	SEALANT TO MATCH C ECTION. TH MANUFACTURER'S S FOR CLEANING AND RINGS. LY AFTER COMPLETIN I: 10VE ADHESIVE AND C FLOOR COVERING SL EEP AND VACUUM FLC DUGHLY. 1P-MOP FLOOR COVER S AND SOIL. FLOOR COVERINGS FR S F CONSTRUCTION. MASONITE SMOOTH E FIC AREAS. 1 CORREX TWINWALL	COLOR OF DOOR WRITTEN PROTECTION OF G FLOOR COVERING OTHER BLEMISHES IRFACES. DOR COVERINGS RINGS TO REMOVE ROM DAMAGE DURING COARD AT HEAVY TAPED JOINTS	202/1 3' - 0" 7' - 2" 9 203/1 3' - 0" 7' - 2" 9 204/1 3' - 0" 7' - 2" 9 205/1 3' - 0" 7' - 2" 9 206/1 3' - 0" 7' - 2" 9 206/2 4' - 0" 7' - 2" 9 207/1 3' - 0" 7' - 2" 9 208/1 3' - 0" 7' - 2" 9 209/1 3' - 0" 7' - 2" 9 211/1 3' - 0" 7' - 2" 9 212/1 3' - 0" 7' - 2" 9	
212 MEZZ Y NAME OOR NO FINISH K-1 EPOXY CH K-2 EPOXY CH -1 LUXURY N -2 LUXURY N -1 PORCELA F-1 RUBBER	EXP-1 DESCRIPTION SH REQUIRED COATING COATING / VINYL TILE / VINYL TILE AIN FLOOR TILE R FLOOR TILE	- SPEC. REF	CMU PT MANUFACTURER DUR-A-FLEX DUR-A-FLEX MOHAWK MOHAWK AMERICAN OLEAN ECO SURFACES	CMU FINISH SO PRO SHOP FLOOR SHOP FLOOR LARGE AND LO HISTORIC BRI ECONLIGHTS	PT CHEDULE L DUCT (NAME/#) OCAL OCAL DGE	GWB CMU EGEND) TBD TBD TBD TBD TBD TBD TBD TBD	WT-1 PT	GWB CMU	WT-1 PT SIZE 9.25"x59" 9.25"x59" 9.25"x59" 6"x36" 23"x23"	PT EXPO COMMENT		AND TILE FLOORING. FRAMES. I7. CLEANING AND PROT a) COMPLY W INSTRUCTION FLOOR COVE b) IMMEDIATE INSTALLATION 1. REM FROM 2. SW THOR 3. DAM MARK c). PROTECT I REMAINDER (1. 1/8" TRAFF 2. 5MM POLY	SEALANT TO MATCH C ECTION. TH MANUFACTURER'S S FOR CLEANING AND RINGS. LY AFTER COMPLETIN I: 10VE ADHESIVE AND C FLOOR COVERING SL EEP AND VACUUM FLC DUGHLY. 1P-MOP FLOOR COVER S AND SOIL. CORREX TWINWALL PROPYLENE SHEET, FI	COLOR OF DOOR WRITTEN PROTECTION OF G FLOOR COVERING OTHER BLEMISHES IRFACES. DOR COVERINGS RINGS TO REMOVE ROM DAMAGE DURING COARD AT HEAVY TAPED JOINTS NE FLUTE.	202/1 3' - 0" 7' - 2" 9 203/1 3' - 0" 7' - 2" 9 204/1 3' - 0" 7' - 2" 9 205/1 3' - 0" 7' - 2" 9 206/1 3' - 0" 7' - 2" 9 206/2 4' - 0" 7' - 2" 9 207/1 3' - 0" 7' - 2" 9 208/1 3' - 0" 7' - 2" 9 209/1 3' - 0" 7' - 2" 9 211/1 3' - 0" 7' - 2" 9 212/1 3' - 0" 7' - 2" 9	
212 MEZZ TY NAME DOR NO FINISH X-1 EPOXY CO X-2 EPOXY CO T-1 LUXURY V T-2 LUXURY V T-1 PORCELA F-1 RUBBER T-1 VINYL CO	EXP-1 DESCRIPTION SH REQUIRED COATING COATING (VINYL TILE (VINYL TILE AIN FLOOR TILE	- SPEC. REF - 096723 096723 096519 096519 096519 093013	CMU PT MANUFACTURER DUR-A-FLEX DUR-A-FLEX MOHAWK MOHAWK AMERICAN OLEAN	CMU FINISH SO PRO SHOP FLOOR SHOP FLOOR LARGE AND LO LARGE AND LO HISTORIC BRI	PT CHEDULE L DUCT (NAME/#) OCAL OCAL DGE	GWB CMU EGEND	WT-1 PT	GWB CMU	WT-1 PT SIZE 9.25"x59" 9.25"x59" 6"x36"	PT EXPO		AND TILE FLOORING. FRAMES. I7. CLEANING AND PROT a) COMPLY W INSTRUCTION FLOOR COVE b) IMMEDIATE INSTALLATION 1. REM FROM 2. SW THOR 3. DAM MARK c). PROTECT I REMAINDER (1. 1/8" TRAFF 2. 5MM POLYI 18. EXTEND FLOORING IN EXPOSED AREAS UNI	SEALANT TO MATCH C ECTION. TH MANUFACTURER'S S FOR CLEANING AND RINGS. LY AFTER COMPLETIN I: 10VE ADHESIVE AND C FLOOR COVERING SU EEP AND VACUUM FLC DUGHLY. 1P-MOP FLOOR COVER S AND SOIL. CORREX TWINWALL PROPYLENE SHEET, FI ITO ALL TOE KICKS, KI DER ANY EXISTING CA	COLOR OF DOOR WRITTEN PROTECTION OF G FLOOR COVERING OTHER BLEMISHES IRFACES. OOR COVERINGS RINGS TO REMOVE ROM DAMAGE DURING GOARD AT HEAVY TAPED JOINTS NE FLUTE. NEE SPACES AND SEWORK. FLOORING	202/1 3' - 0" 7' - 2" 9 203/1 3' - 0" 7' - 2" 9 204/1 3' - 0" 7' - 2" 9 205/1 3' - 0" 7' - 2" 9 206/1 3' - 0" 7' - 2" 9 206/2 4' - 0" 7' - 2" 9 207/1 3' - 0" 7' - 2" 9 208/1 3' - 0" 7' - 2" 9 209/1 3' - 0" 7' - 2" 9 211/1 3' - 0" 7' - 2" 9 212/1 3' - 0" 7' - 2" 9	
212 MEZZ EY NAME DOR NO FINISH X-1 EPOXY CO X-2 EPOXY CO T-1 LUXURY V T-2 LUXURY V T-1 PORCELA F-1 RUBBER T-1 VINYL CO SE	EXP-1 DESCRIPTION SH REQUIRED COATING COATING YINYL TILE YINYL TILE AIN FLOOR TILE R FLOOR TILE COMPOSITE TILE	- SPEC. REF - 096723 096723 096519 096519 096519 093013	CMU PT MANUFACTURER DUR-A-FLEX DUR-A-FLEX MOHAWK MOHAWK AMERICAN OLEAN ECO SURFACES	CMU FINISH SO PRO SHOP FLOOR SHOP FLOOR LARGE AND LO HISTORIC BRI ECONLIGHTS	PT CHEDULE L DUCT (NAME/#) OCAL OCAL DGE	GWB CMU EGEND) TBD TBD TBD TBD TBD TBD TBD TBD	WT-1 PT	GWB CMU	WT-1 PT SIZE 9.25"x59" 9.25"x59" 9.25"x59" 6"x36" 23"x23"	PT EXPO COMMENT		AND TILE FLOORING. FRAMES. I7. CLEANING AND PROT a) COMPLY W INSTRUCTION FLOOR COVE b) IMMEDIATE INSTALLATION 1. REM FROM 2. SW THOR 3. DAM MARK c). PROTECT I REMAINDER (1. 1/8" TRAFF 2. 5MM POLYI 18. EXTEND FLOORING IN EXPOSED AREAS UNI AS SCHEDULED SHAL	SEALANT TO MATCH C ECTION. TH MANUFACTURER'S S FOR CLEANING AND RINGS. LY AFTER COMPLETIN I: 10VE ADHESIVE AND C FLOOR COVERING SL EEP AND VACUUM FLC DUGHLY. 1P-MOP FLOOR COVER S AND SOIL. CORREX TWINWALL PROPYLENE SHEET, FI ITO ALL TOE KICKS, KI	COLOR OF DOOR WRITTEN PROTECTION OF G FLOOR COVERING OTHER BLEMISHES IRFACES. OOR COVERINGS RINGS TO REMOVE ROM DAMAGE DURING GOARD AT HEAVY TAPED JOINTS NE FLUTE. NEE SPACES AND SEWORK. FLOORING	202/1 3' - 0" 7' - 2" 9 203/1 3' - 0" 7' - 2" 9 204/1 3' - 0" 7' - 2" 9 205/1 3' - 0" 7' - 2" 9 206/1 3' - 0" 7' - 2" 9 206/2 4' - 0" 7' - 2" 9 207/1 3' - 0" 7' - 2" 9 208/1 3' - 0" 7' - 2" 9 209/1 3' - 0" 7' - 2" 9 211/1 3' - 0" 7' - 2" 9 212/1 3' - 0" 7' - 2" 9	
212 MEZZ POR NO FINISH K-1 EPOXY CO K-2 EPOXY CO C-2 EPOXY CO C-1 LUXURY N C-2 LUXURY N C-1 PORCELA C-1 RUBBER C-1 VINYL CO SE NO FINISH	EXP-1 DESCRIPTION SH REQUIRED COATING COATING YINYL TILE YINYL TILE AIN FLOOR TILE R FLOOR TILE SOMPOSITE TILE SH REQUIRED	- SPEC. REF 096723 096519 096519 096519 093013 096566 -	CMU PT MANUFACTURER DUR-A-FLEX DUR-A-FLEX MOHAWK MOHAWK AMERICAN OLEAN ECO SURFACES ARMSTRONG	CMU FINISH SO PRO SHOP FLOOR LARGE AND LO LARGE AND LO HISTORIC BRI ECONLIGHTS EXCELON SDT	PT CHEDULE L DUCT (NAME/#) OCAL OCAL DGE	GWB CMU EGEND IBD TBD TBD TBD TBD TBD TBD TBD TBD TBD T	WT-1 PT	GWB CMU	WT-1 PT SIZE 9.25"x59" 9.25"x59" 9.25"x59" 6"x36" 23"x23" 12"x12"	PT EXPO COMMENT COMMENT		AND TILE FLOORING. FRAMES. (7. CLEANING AND PROT a) COMPLY W INSTRUCTION FLOOR COVE b) IMMEDIATE INSTALLATION 1. REM FROM 2. SW THOR 3. DAM MARK c). PROTECT I REMAINDER (1. 1/8" TRAFF 2. 5MM POLYI 18. EXTEND FLOORING IN EXPOSED AREAS UNI AS SCHEDULED SHAI CASEWORK. 19. MOLD AND MOISTURI	SEALANT TO MATCH C ECTION. TH MANUFACTURER'S S FOR CLEANING AND RINGS. LY AFTER COMPLETIN I: IOVE ADHESIVE AND C FLOOR COVERING SL EEP AND VACUUM FLC DUGHLY. IP-MOP FLOOR COVER S AND SOIL. COURCOVERINGS FF OF CONSTRUCTION. MASONITE SMOOTH E IC AREAS. I CORREX TWINWALL PROPYLENE SHEET, FI ITO ALL TOE KICKS, KI DER ANY EXISTING CA L BE INSTALLED UNDE E RESISTANT GYPSUM	COLOR OF DOOR WRITTEN PROTECTION OF G FLOOR COVERING OTHER BLEMISHES IRFACES. OOR COVERINGS RINGS TO REMOVE ROM DAMAGE DURING GOARD AT HEAVY TAPED JOINTS NE FLUTE. NEE SPACES AND SEWORK. FLOORING ER ALL NEW BOARD SHALL BE	202/1 3' - 0" 7' - 2" 9 203/1 3' - 0" 7' - 2" 9 204/1 3' - 0" 7' - 2" 9 205/1 3' - 0" 7' - 2" 9 205/1 3' - 0" 7' - 2" 9 206/1 3' - 0" 7' - 2" 9 206/2 4' - 0" 7' - 2" 9 207/1 3' - 0" 7' - 2" 9 208/1 3' - 0" 7' - 2" 9 209/1 3' - 0" 7' - 2" 9 211/1 3' - 0" 7' - 2" 9 212/1 3' - 0" 7' - 2" 9	
212 MEZZ Y NAME NO FINISH OR NO FINISH (-1 EPOXY CI -1 LUXURY N -2 LUXURY N -1 PORCELA -1 VINYL CO SE NO FINISH 1 RESILIEN	EXP-1 DESCRIPTION SH REQUIRED COATING COATING YINYL TILE YINYL TILE AIN FLOOR TILE R FLOOR TILE COMPOSITE TILE	- SPEC. REF - 096723 096723 096519 096519 096519 093013	CMU PT MANUFACTURER DUR-A-FLEX DUR-A-FLEX MOHAWK MOHAWK AMERICAN OLEAN ECO SURFACES	CMU FINISH SO PRO SHOP FLOOR SHOP FLOOR LARGE AND LO HISTORIC BRI ECONLIGHTS	PT CHEDULE L DUCT (NAME/#) OCAL OCAL DGE	GWB CMU EGEND) TBD TBD TBD TBD TBD TBD TBD TBD	WT-1 PT	GWB CMU	WT-1 PT SIZE 9.25"x59" 9.25"x59" 9.25"x59" 6"x36" 23"x23"	PT EXPO COMMENT COMMENT STATIC DISSIPATIVE		AND TILE FLOORING. FRAMES. (7. CLEANING AND PROT a) COMPLY W INSTRUCTION FLOOR COVE b) IMMEDIATE INSTALLATION 1. REM FROM 2. SW THOR 3. DAM MARK c). PROTECT I REMAINDER (1. 1/8" TRAFF 2. 5MM POLYI 18. EXTEND FLOORING IN EXPOSED AREAS UNI AS SCHEDULED SHAI CASEWORK. [9. MOLD AND MOISTURI USED AT ALL KITCHE	SEALANT TO MATCH C ECTION. TH MANUFACTURER'S S FOR CLEANING AND RINGS. LY AFTER COMPLETIN I: IOVE ADHESIVE AND C FLOOR COVERING SL EEP AND VACUUM FLC DUGHLY. IP-MOP FLOOR COVER S AND SOIL. COURCOVERINGS FF OF CONSTRUCTION. MASONITE SMOOTH E IC AREAS. I CORREX TWINWALL PROPYLENE SHEET, FI ITO ALL TOE KICKS, KI DER ANY EXISTING CA L BE INSTALLED UNDE E RESISTANT GYPSUM N AREAS, TOILET ROO	COLOR OF DOOR WRITTEN PROTECTION OF G FLOOR COVERING OTHER BLEMISHES IRFACES. OOR COVERINGS RINGS TO REMOVE ROM DAMAGE DURING GOARD AT HEAVY TAPED JOINTS NE FLUTE. NEE SPACES AND SEWORK. FLOORING ER ALL NEW BOARD SHALL BE	202/1 3' - 0" 7' - 2" 9 203/1 3' - 0" 7' - 2" 9 204/1 3' - 0" 7' - 2" 9 205/1 3' - 0" 7' - 2" 9 205/1 3' - 0" 7' - 2" 9 206/1 3' - 0" 7' - 2" 9 206/2 4' - 0" 7' - 2" 9 207/1 3' - 0" 7' - 2" 9 208/1 3' - 0" 7' - 2" 9 209/1 3' - 0" 7' - 2" 9 211/1 3' - 0" 7' - 2" 9 212/1 3' - 0" 7' - 2" 9	
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FLOORING ER ALL NEW BOARD SHALL BE MS, AND CUSTODIAN UNDER ALL NEW ES FOR CEILING & HEIGHTS OF ER SCHEDULED WALL CH TO CORRESPOND INS OF DISSIMILAR NUFACTURERS' INT LOCATIONS AND</td> <td>202/1 3' - 0" 7' - 2" 3 203/1 3' - 0" 7' - 2" 3 204/1 3' - 0" 7' - 2" 3 205/1 3' - 0" 7' - 2" 3 206/2 4' - 0" 7' - 2" 3 206/2 4' - 0" 7' - 2" 3 206/2 4' - 0" 7' - 2" 3 207/1 3' - 0" 7' - 2" 3 208/1 3' - 0" 7' - 2" 3 209/1 3' - 0" 7' - 2" 3 212/1 3' - 0" 7' - 2" 3 212/2 3' - 0" 7' - 2" 3 212/2 3' - 0" 7' - 2" 3 212/2 3' - 0" 7' - 2" 3 212/2 3' - 0" 7' - 2" 3 200RS, SIDELIGHTS, AND CODE</td>	- SPEC. REF - 096723 096723 096519 096519 096519 093013 096566 096513 096513 096513 093013 096513 093013 09123 09912 000 09912 000 09912 000 09912 000 09912 000 09912 000 09912 000 09912 000 09912 000 09912 000 09912 000 09912 000 09912 000 09912 000 000 000 000 000 000 000 000 000 0	CMU PT MANUFACTURER MANUFACTURER DUR-A-FLEX DUR-A-FLEX DUR-A-FLEX MOHAWK AMERICAN OLEAN ECO SURFACES ARMSTRONG ROPPE ARMSTRONG ROPPE DALTILE SHERWIN WILLIAMS WILSONART WILSONART WILSONART WILSONART WILSONART HANSTONE	CMU FINISH S PRO SHOP FLOOR SHOP FLOOR LARGE AND LO LARGE AND LO HISTORIC BRII ECONLIGHTS EXCELON SDT PINNACLE PINNACLE ARTIGIANO ARTIGIANO K-13 THERMAI STANDARD LA STANDARD LA STANDARD LA STANDARD LA STANDARD LA	PT CHEDULE L DUCT (NAME/#) OCAL OCAL OGA DGE	GWBCMUCMUCMUCMUCMUTBD	COLOR/F	GWB CMU	WT-1 PT 9.25"x59" 9.25"x59" 9.25"x59" 6"x36" 23"x23" 12"x12" 4" HIGH CON 4" HIGH CON 4" HIGH CON TBD 3"x12" 3"x12" SEE SPEC	PT EXPO EXPO COMMENT: COMMENT: COMMENT: STATIC DISSIPATIVE COMMENT: STATIC DISSIPATIVE COMMENT: T. TILE BASE AS NEEDED, MATO T. COMMENT: ADD / ALT. #1		AND TILE FLOORING. FRAMES. 17. CLEANING AND PROT a) COMPLY W INSTRUCTION FLOOR COVE b) IMMEDIATE INSTALLATION 1. REM FROM 2. SW THOR 3. DAM MARK c). PROTECT I REMAINDER C 1. 1/8" TRAFF 2. 5MM POLYI 18. EXTEND FLOORING IN EXPOSED AREAS UNI AS SCHEDULED SHAI CASEWORK. 19. MOLD AND MOISTURI USED AT ALL KITCHE SERVICE CLOSETS SI GYPSUM BOARD FINI CASEWORK AND APF 20. SEE THE REFLECTED HEIGHTS, MATERIAL I BULKHEADS, SOFFITS 24. PLAN WALL TYPES TA FINISH. PROVIDE APF TO WALL TYPES. 21. PROVIDE SEALANT/C. MATERIALS AND AS F GUIDELINES. 22. SEE ELEVATIONS SHI EXTENTS.	SEALANT TO MATCH O ECTION. TH MANUFACTURER'S S FOR CLEANING AND RINGS. LY AFTER COMPLETIN I: 10VE ADHESIVE AND O FLOOR COVERING SL EP AND VACUUM FLO DUGHLY. 1P-MOP FLOOR COVER S AND SOIL. COOR COVERINGS FR COOR COVERINGS FR FLOOR COVERINGS FR FLOOR COVERINGS FR FLOOR COVERINGS FR CONSTRUCTION. MASONITE SMOOTH E TC AREAS. 1 CORREX TWINWALL PROPYLENE SHEET, FI ITO ALL TOE KICKS, KI DER ANY EXISTING CA L BE INSTALLED UNDE E RESISTANT GYPSUM N AREAS, TOILET ROO CHEDULED TO HAVE SHES. THIS INCLUDES LIANCES. CEILING PLAN & NOTE EXTENTS, LOCATIONS 5, ETC. KE PRECEDENCE OVE ROPRIATE WALL FINIS AULK AT INTERSECTIO ECOMMENDED BY MA EETS FOR ACCENT PA	COLOR OF DOOR WRITTEN PROTECTION OF G FLOOR COVERING OTHER BLEMISHES RFACES. OR COVERINGS RINGS TO REMOVE ROM DAMAGE DURING COARD AT HEAVY TAPED JOINTS NE FLUTE. NEE SPACES AND SEWORK. FLOORING ER ALL NEW BOARD SHALL BE MS, AND CUSTODIAN UNDER ALL NEW ES FOR CEILING & HEIGHTS OF ER SCHEDULED WALL CH TO CORRESPOND INS OF DISSIMILAR NUFACTURERS' INT LOCATIONS AND	202/1 3' - 0" 7' - 2" 3 203/1 3' - 0" 7' - 2" 3 204/1 3' - 0" 7' - 2" 3 205/1 3' - 0" 7' - 2" 3 206/2 4' - 0" 7' - 2" 3 206/2 4' - 0" 7' - 2" 3 206/2 4' - 0" 7' - 2" 3 207/1 3' - 0" 7' - 2" 3 208/1 3' - 0" 7' - 2" 3 209/1 3' - 0" 7' - 2" 3 212/1 3' - 0" 7' - 2" 3 212/2 3' - 0" 7' - 2" 3 212/2 3' - 0" 7' - 2" 3 212/2 3' - 0" 7' - 2" 3 212/2 3' - 0" 7' - 2" 3 200RS, SIDELIGHTS, AND CODE	

*FINAL FINISH SELECTIONS TO BE CONFIRMED BY OWNER

TE: GLAZING SHALL BE TEMPERED IN ORS, SIDELIGHTS, AND AS REQUIRED BY DF

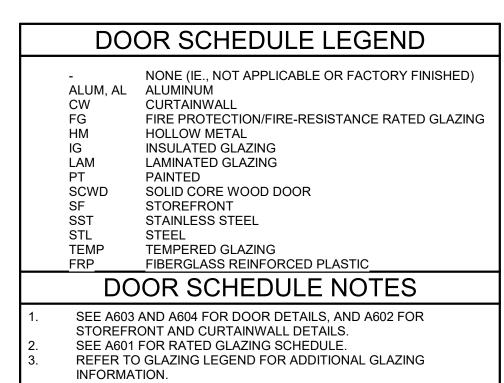


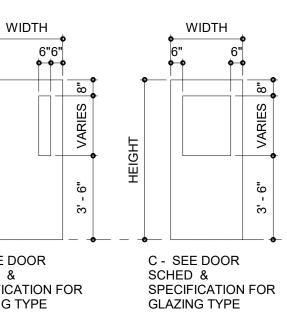


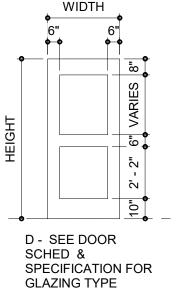
/IDTH ------` B - SEE DOOR SCHED & SPECIFICATION FOR GLAZING TYPE

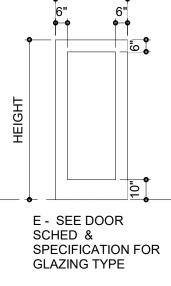
WALL ASSEMBLY		DOOR		SID	ELITE / TRAN	SOM	WI	NDOW
RATING	RATING	GLAZ TYPE	GLAZ RATING	ASSEMBLY RATIN		GLAZ RATING A	SSEMBLY RATIN	
3 HR	180 MIN	NONE	N/A	4 HR	FG-FR	W-180	FG-FR	W-180
1 HR	60 MIN	FG-FP <= 100 SQ IN FG-FR >100 SQ IN	D-H-60 D-H-T-60 OR D-H-T- W-60	1 HR	FG-FR	W-60	FG-FR	W-60
1 HR	45 MIN	FG-FP	D-H-NT-45	3/4 HR	FG-FP	D-H	FG-FP	OH-45 OR W-6
1 HR	20 MIN	FG-FP	D-20	3/4 HR	FG-FP	D-H-OH-45	FG-FP	OH-45 OR W-6
1 HR	45 MIN	FG-FR	D-H-45	3/4 HR	FG-FP	D-H-45	FG-FP	OH-45 OR W-6
					LEG	SEND:		
	RATING 3 HR 1 HR 1 HR 1 HR	RATINGRATING3 HR180 MIN1 HR60 MIN1 HR45 MIN1 HR20 MIN	RATINGGLAZ TYPE3 HR180 MINNONE3 HR180 MINNONE1 HR60 MINFG-FP1 HR60 MINFG-FR1 HR45 MINFG-FP1 HR20 MINFG-FP	RATINGRATINGGLAZ TYPEGLAZ RATING3 HR180 MINNONEN/A1 HR60 MINFG-FPD-H-601 HR60 MINFG-FRD-H-T-601 HR45 MINFG-FPD-H-NT-451 HR20 MINFG-FPD-20	RATINGRATINGGLAZ TYPEGLAZ RATING ASSEMBLY RATING3 HR180 MINNONEN/A4 HR1 HR60 MINFG-FP FG-FR >100 SQ IN FG-FR >100 SQ IND-H-60 D-H-T-60 OR D-H-T- W-601 HR1 HR45 MINFG-FP FG-FPD-H-NT-453/4 HR1 HR20 MINFG-FP FG-FPD-203/4 HR	RATINGRATINGGLAZ TYPEGLAZ RATING ASSEMBLY RATINGGLAZ TYPE3 HR180 MINNONEN/A4 HRFG-FR1 HR60 MINFG-FPD-H-60 FG-FR >100 SQ IN FG-FRD-H-T-60 	RATINGRATINGGLAZ TYPEGLAZ RATING ASSEMBLY RATINGGLAZ TYPEGLAZ RATING ASSEMBLY RATINGGLAZ TYPE3 HR180 MINNONEN/A4 HRFG-FRW-1801 HR60 MINFG-FPD-H-60D-H-7601 HRFG-FRW-601 HR60 MINFG-FRD-H-700R D-H-T-1 HRFG-FRW-601 HR45 MINFG-FPD-H-NT-453/4 HRFG-FPD-H1 HR20 MINFG-FPD-203/4 HRFG-FPD-H-0H-451 HR45 MINFG-FRD-H-453/4 HRFG-FPD-H-0H-451 HR45 MINFG-FRD-H-45S/4 HRFG-FPD-H-0H-45	RATINGRATINGGLAZ TYPEGLAZ RATING ASSEMBLY RATINGGLAZ TYPEGLAZ RATING ASSEMBLY RATING3 HR180 MINNONEN/A4 HRFG-FRW-180FG-FR1 HR60 MINFG-FPD-H-60 D-H-7- >100 SQ IND-H-7-60 OR D-H-T- W-601 HRFG-FRW-60FG-FR1 HR45 MINFG-FPD-H-NT-453/4 HRFG-FPD-HFG-FP1 HR20 MINFG-FPD-203/4 HRFG-FPD-H-OH-45FG-FP1 HR45 MINFG-FRD-H-453/4 HRFG-FPD-H-OH-45FG-FP

DOOR SCHEDULE											
DOOR FRAME											
							DE	FAIL	FIRE	HDWE	
ATL	TYPE	FIN	GLAZ	MATL	TYPE	FIN	HEAD	JAMB	RATING	SET	COMMENTS
RP	A	PT	-	FRP	1	PT	H12	J5	-	21	
RP	A	PT	-	FRP	1	PT	H12	J5	-	15	
	A	PI	-	FRP	1	PI	пі	J5	-	15	
LUM	D	ANOD	TEMP	ALUM	1	ANOD	H2	J11	-	22	
		7.1100		7120101		7.1100	112	011			
RP	A	PT	_	FRP		PT	H10	J10	-	13	
RP	A	PT	-	FRP		PT	H10	J10	_	07	
RP	A	PT	-	FRP		PT	H10	J10	_	07	
ANF	-	-	-	MANF	-	MANE	MANF	MANF	_	01	
ANF	-		-	MANE	_	MANE	MANF	MANF	-	01	
ANF	-	-	-	MANE	-	MANE	MANE	MANE	-	01	
					-		MANE		-	01	
ANF RP	- A	- PT	-	MANF FRP	-	MANF PT	MANF H4	MANF J4	- 45 MIN	16	
	~	FÍ	-				114	JH		10	
	D	пт	F0		1	пт	LI 7	17	60 MIN	20	
	B	PT	FG	HM	1	PT	H7	J7	60 MIN	20	
	<u>A</u>	ST	-	HM	1	PT	H8	J8	-	08	
CWD	A	ST	-	HM	1	PT	H8	J8	-	04	
CWD	A	ST	-	HM	1	PT	H8	J8	-	04	
CWD	A	ST	-	HM	1	PT	H8	J8	-	04	
CWD	<u>A</u>	ST	-	HM	1	PT	H8	J8	-	04	
CWD	A	ST	-	HM	1	PT	H8	J8	-	04	
CWD	<u>A</u>	ST	-	HM	1	PT	-	-		02	POCKET DOOR
CWD	<u>A</u>	ST	-	HM	1	PT	H8	J8	-	18	
CWD	A	ST	-	HM	1	PT	H8	J8	-	12	
CWD	A	PT	-	HM	1	PT	H9	J9	45 MIN	14	
CWD	В	PT	FG	HM	1	PT	H7	J7	60 MIN	10	
RP	A	PT	-	FRP	1	PT	H13	J11	-	17	
CWD	В	PT	FG	НМ	1	PT	H7	J7	45 MIN	20	
CWD	В	PT	FG	HM	1	PT	H7	J7	45 MIN	20	
CWD	В	PT	FG	HM	1	PT	H7	J7	45 MIN	20	
CWD	А	ST	-	HM	1	PT	H9	J9	45 MIN	12	
CWD	А	ST	-	HM	1	PT	H9	J9	45 MIN	12	
CWD	А	ST	-	HM	1	PT	H9	J9	45 MIN	12	
CWD	А	ST	-	HM	1	PT	H9	J9	45 MIN	12	
CWD	В	ST	FG	HM	1	PT	H7	J7	45 MIN	10	
CWD	В	ST	FG	HM	1	PT	H7	J7	45 MIN	20	
CWD	А	ST	-	НМ	1	PT	H8	J8	-	19	
CWD	А	ST	-	НМ	1	PT	H8	J8	-	05	
CWD	А	ST	-	НМ	1	PT	H8	J8	-	19	
CWD	Α	ST	-	НМ	1	PT	H8	J8	-	06	
CWD	Α	ST	-	НМ	1	PT	H8	J8	-	11	
CWD	A	PT	-	HM	1	PT	H8	J8	-	09	
CWD	A	ST	-	HM	1	PT	H8	J8	-	06	
CWD	A	ST	_	HM	1	PT	H8	J8	-	06	
CWD	A	ST	-	HM	1	PT	H8	J8	-	03	
CWD	A	ST	_	HM	1	PT	H8	J8	-	12	
CWD	A	ST	-	HM	1	PT	H9	J8	45 MIN	10	
		ST		HM	1	PT	H9	J9	45 MIN	10	









WIDTH

	$\frac{\text{DECKER}}{\text{MORGAN}}_{\overline{\text{GROUP}}}$
	ARCHITECTURE ENGINEERING
	<u>North Carolina</u> 3333 Jaeckle Drive, Suite 120 Wilmington, NC 28403
	910.341.7600 615 South College Street, Suite 8-158 Charlotte, NC 28202 980.270.9100
	<u>Maryland</u> 312 West Main St, Suite 300 Salisbury, MD 21801
	410.546.9100 <u>Delaware</u> 309 S Governors Ave Dover, DE 19904
	302.734.7950 The Tower at STAR Campus 100 Discovery Boulevard, Suite 102 Newark, DE 19713
	302.369.3700 www.beckermorgan.com
	Totur of NORTH TOPSAIL BEACH FOUNDED IN 1990 Naturis Tranquil Beauty NORTH CAROLINA
	CBHF ENGINEERS PLLC PME ENGINEERS
	2246 YAUPON DRIVE WILMINGTON, NC 28401 ph 910-791-4000
	PARAMOUNTE ENGINEERING, INC. CIVIL ENGINEERING
	122 CINEMA DRIVE WILMINGTON, NC 28403 ph 910-791-6707 fax 910-791-6760
	WOODS ENGINEERING STRUCTURAL ENGINEERING
	254 N. FRONT STREET, SUITE 201 WILMINGTON, NC 28401 ph 910-343-8007 fax 910-343-8088
	PROJECT TITLE
	NORTH TOPSAIL BEACH FIRE STATION #2 3304 GRAY STREET NORTH TOPSAIL BEACH, NC
_	28460 ISSUED FOR BIDDING 10/24/23
	SHEET TITLE DOOR AND WINDOW TYPES AND SCHEDULES

BECKER

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Description

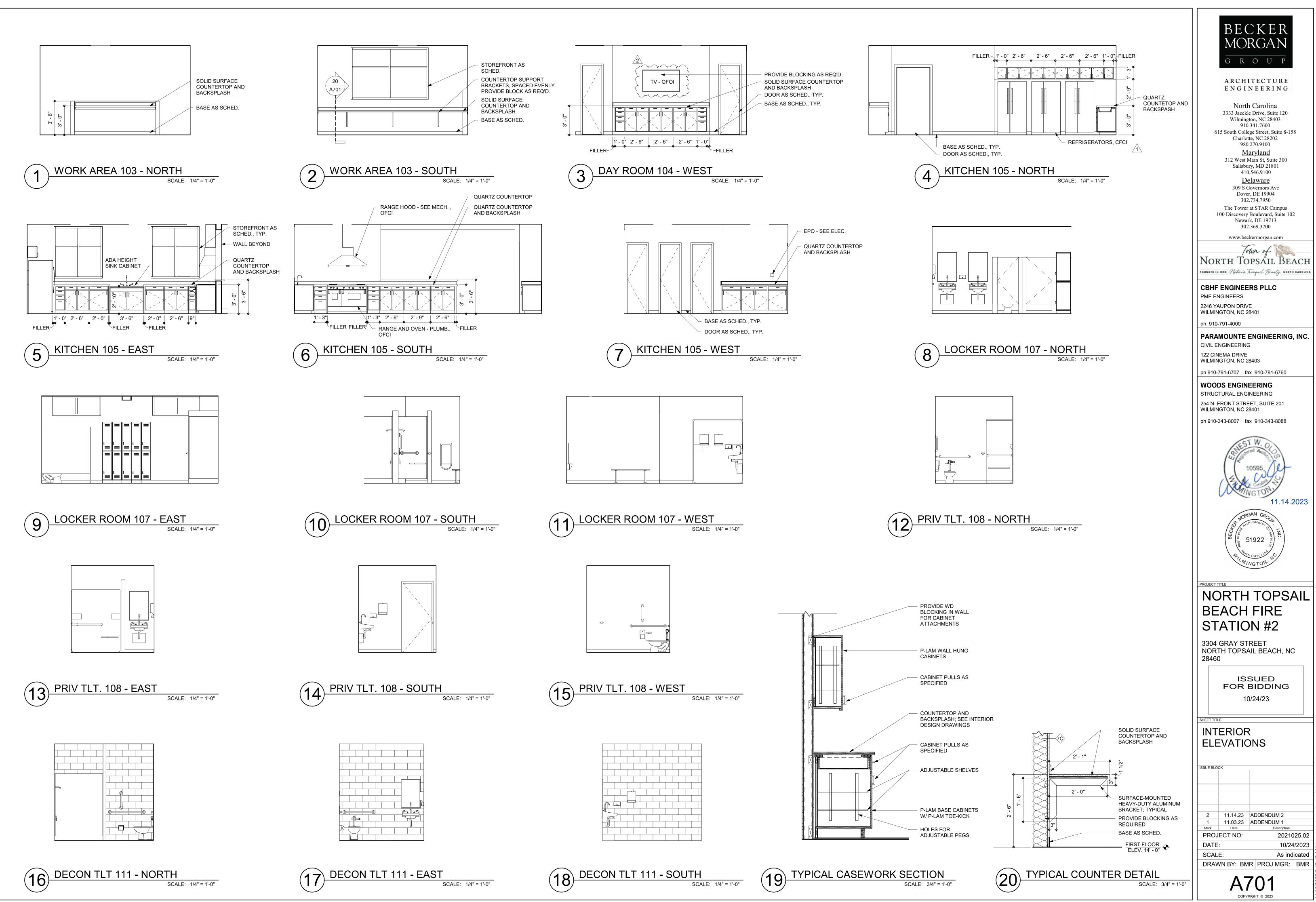
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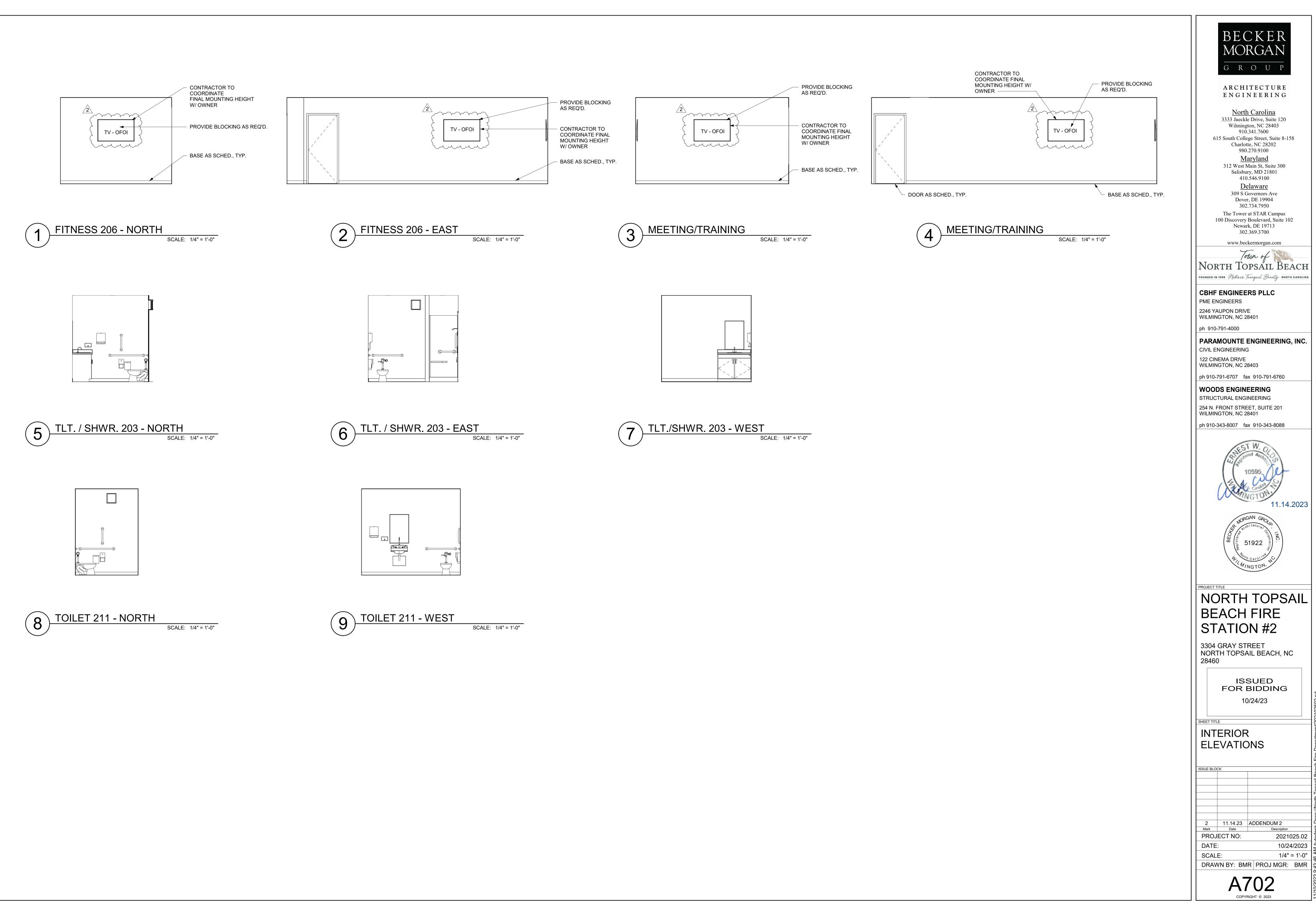
2 11.14.23 ADDENDUM 2 1 11.03.23 ADDENDUM 1 Mark Date Description

PROJECT NO:

DATE:

SCALE:

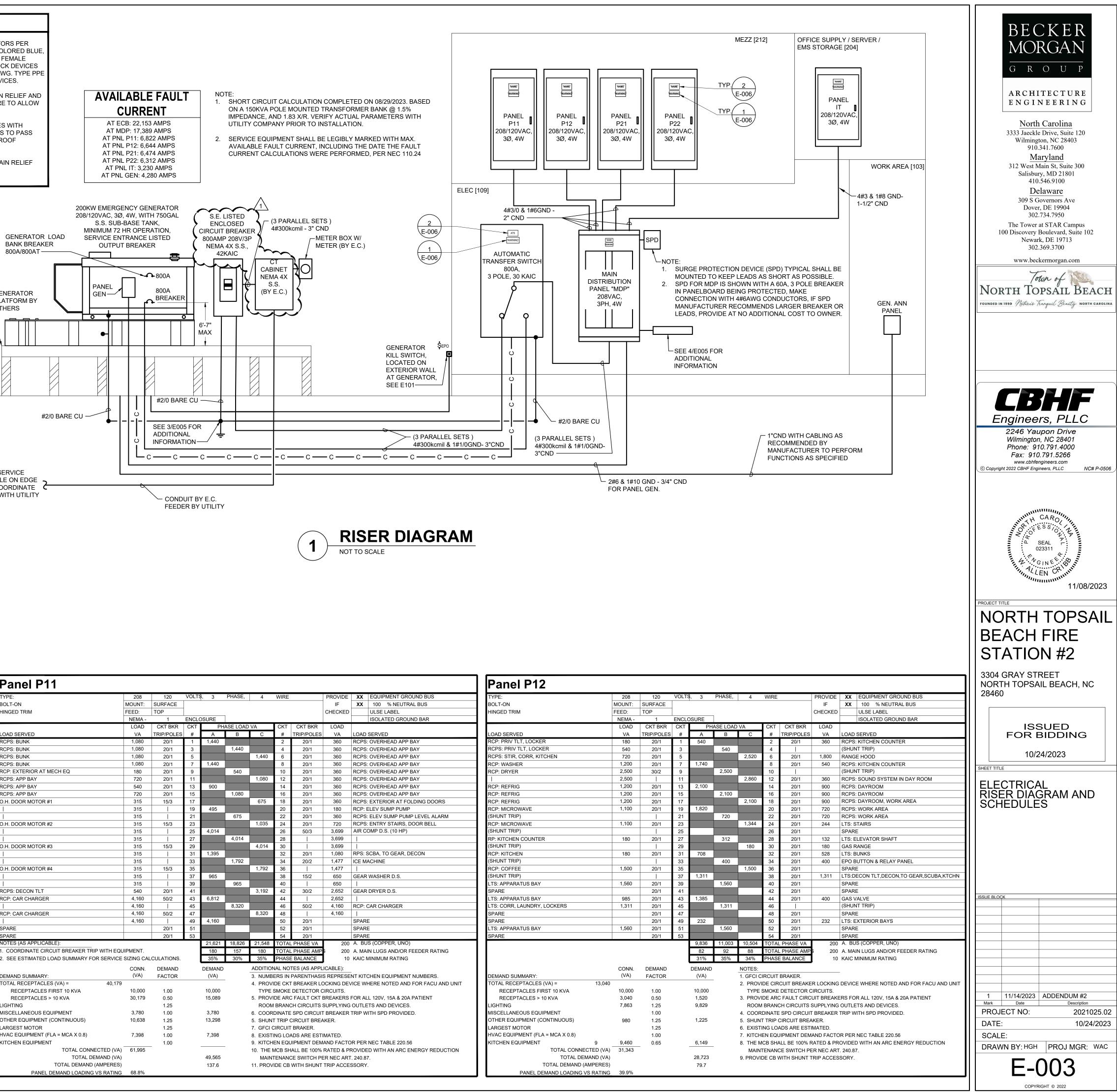




VOLTAGE	PHASE	
	3	PROVIDE TWO(2) 400A RATED FEMALE CAM-LOCK CONNECTORS PHASE FOR A TOTAL OF 6. THE THREE PHASES SHALL BE COLOF
LARGEST MOTOR APPROX. AMPS	88 AMPS	BLACK AND RED, AND PROVIDE TWO(2) GREEN 400A RATED FEM
LARGEST MOTOR APPROX. AMPS x .25	22 AMPS	CAM-LOCK CONNECTORS FOR GROUNDING. THESE CAM-LOCK D
		SHALL BE CONNECTED TO LOAD BANK BREAKER WITH 4/0 AWG.
HVAC	10.000	CABLE. PROVIDE PROTECTIVE CAPS FOR ALL CAM-LOK DEVICES
DOAS	10,030 VA	
ACC01	1,816 VA	CABLE SHALL BE OF SUFFICIENT LENGTH TO MOUNT STRAIN RE ENTIRE CAM-LOK DEVICE OUTSIDE OF BREAKER ENCLOSURE TO
BC01	183 VA	CONNECTION OF MALE CAM-LOK.
HP01	12,394 VA	
AHU's (9)	4,375 VA	GENERATOR SHALL BE PROVIDED WITH SUFFICIENT NIPPLES WI
RH's (3)	720 VA	INSULATED BUSHINGS AS REQUIRED TO ALLOW THE CABLES TO
VEHICLE EXHAUST	5,181 VA	FROM THE BREAKER COMPARTMENT INTO THE WEATHERPROOF
HVLS's	1,440 VA	ENCLOSURE.
PV'S (7)	2,451 VA	GENERATOR SHALL BE PROVIDED WITH BASKET TYPE STRAIN R
SUB-TOTAL HVAC DEMAND	38,589 VA	DEVICES TO EACH CABLE AFTER IT TRANSITIONS INTO THE
SUB-TOTAL HVAC DEMAND	107 AMPS	WEATHERPROOF ENCLOSURE.
		WEATHER ROOF ENGLOSURE.
EQUIPMENT		
-		
EWC CR1	430 VA	
CP1	126 VA	
EWH	15,000 VA	
ICE MACHINE	2,954 VA	
WASHER	1,200 VA	GE 1 BAI
DRYER	4,992 VA	
GEAR WASHER	2,882 VA	800
GEAR DRYER	5,304 VA	
AIR COMPRESSOR	11,097 VA	
EXISTING LIFT STATION	8,320 VA	
BACKFLOW HEATER	1,500 VA	
BI-FOLD DOORS	3,780 VA	
		\ PLATEC \OTHER
	800 VA	OTHER
	800 VA	
GENERATOR BLOCK HEATER	1,500 VA	
GENERATOR CHARGER	500 VA	
GENERATOR FUEL PUMPS	400 VA	<u>۱</u> ــــ
ELEV CAB	1,440 VA	
ELEVATOR	31,680 VA	
CAR CHARGER (3)	24,960 VA	
SUB-TOTAL EQUIPMENT DEMAND	119,664 VA	
SUB-TOTAL EQUIPMENT DEMAND	332 AMPS	
		GRADE
	22 AMPS	
TOTAL EQUIPMENT DEMAND	354 AMPS	
REFRIG'S (3)	3,600 VA	
DISPOSAL	750 VA	
MICROWAVE (2)	2,200 VA	
SUB-TOTAL EQUIPMENT DEMAND	6,550 VA	
DEMAND FACTOR 70% (5 UNITS)	4,258 VA	UNDERGROUND SERV
SUB-TOTAL EQUIPMENT DEMAND	18 AMPS	FROM UTILITY POLE OF
TOTAL EQUIPMENT DEMAND	12 AMPS	OF PROPERTY, COORE
	12 AIVIES	FINAL LOCATION WITH
LIGHTING		
	15.070	
LIGHTS (INTERIOR, BASED ON NEC 220.12)	15,972 VA	
LIGHTS (EXTERIOR)	464 VA	
SIGN	1,200 VA	
TOTAL LIGHTING LOAD	17,636 VA	
TOTAL DEMAND FOR LIGHTING	49 AMPS	
RECEPTACLES		
RECEPTACLES	49,809 VA	
FIRST 10000VA	10,000 VA	
REMAINDER @ 50%		
_	19,905 VA	
TOTAL DEMAND FOR RECEPTACLE/POWER PANELS	29,905 VA	
TOTAL DEMAND FOR RECEPTACLE/POWER PANELS	83 AMPS	
	605 AMPS	
TOTAL DEMAND BUILDING AMPS	OUS AIVIES	
TOTAL DEMAND BUILDING AMPS TOTAL DEMAND BUILDING VA	217,977 VA	

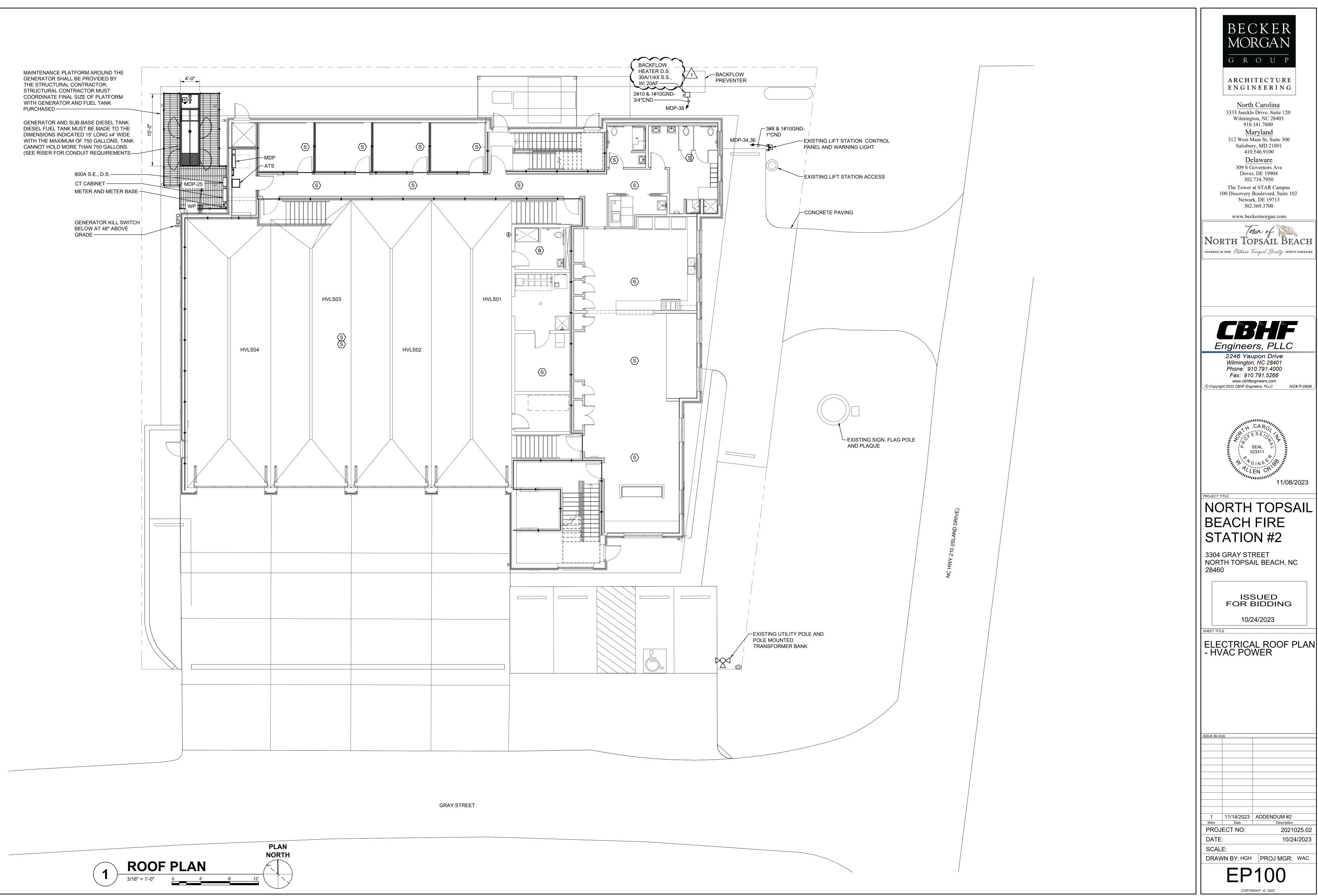
Panel MDP Panel PROVIDE XX EQUIPMENT GROUND BUS VOLT\$, 3 PHASE, 4 208 BOLT-ON BOLT-ON MOUNT: SURFACE IF XX 100 % NEUTRAL BUS HINGED TRIM FEED: TOP HINGED TRIM CHECKED ULSE LABEL NEMA -ENCLOSURE ISOLATED GROUND BAR 1 LOAD CKT BKR CKT PHASE LOAD VA CKT CKT BKR LOAD LOAD SERVED VA TRIP/POLES # A B C # TRIP/POLES VA LOAD SERVED OAD SERVED PANEL P11 RCPS: BUNK 21,621 SPD 18,826 RCPS: BUNK 18,826 21,548 RCPS: BUNK 21,548 9,836 PANEL P12 26,166 16,330 PANEL P21 CPS: BUNK 200/3 200/3 11,003 16,280 RCP: EXTERIO 27,283 10,504 15,263 RCPS: APP BA 25.767 17,573 PANEL P22 RCPS: APP BA 200/3 17.573 200/3 17,538 RCPS: APP BA 17,538 18,306 D.H. DOOR MO 18,306 1,500 4,240 PANEL IT PANEL GEN 60/2 5.740 100/3 992 3,340 4,332 180 1,560 O.H. DOOR MC RCP: ELEC RM 20/1 1.740 RCP: EXTERIOR AT SERVICE 180 20/1 180 RCP: RISER RM 20/1 360 HVLS01 AND HVLS02 720 15/1 1,800 1,080 RCPS: ELEC, CORR 20/1 HVLS03 AND HVLS04 720 15/1 1,080 360 RPS: ELEC TELE BACKBOARD O.H. DOOR MC 20/1 360 RPS: ELEC TELE BACKBOARD 20/1 360 20/1 SPARE 4,160 LIFT STATION 20/1 4.160 50/2 O.H. DOOR MO SPARE 4,160 20/1 4.160 20/1 1,500 BACKFLOW HEATER D.S. SPARE 20/1 1,500 SPARE 20/1 SPARE 20/1RCPS: DECON SPARE SPARE 20/1 20/1 NOTES (AS APPLICABLE): 73,319 73,939 72,601 TOTAL PHASE VA RCP: CAR CH 800 A. BUS (COPPER, UNO COORDINATE CIRCUIT BREAKER TRIP WITH EQUIPMENT. 611 616 605 TOTAL PHASE AM 800 A. MAIN CIRCUIT BREAKER 33% 34% 33% PHASE BALANCE . SEE ESTIMATED LOAD SUMMARY FOR SERVICE SIZING CALCULATIONS. 42 KAIC MINIMUM RATING RCP: CAR CH ADDITIONAL NOTES (AS APPLICABLE): CONN. DEMAND DEMAND SPARE (VA) DEMAND SUMMARY: FACTOR (VA) 3. NUMBERS IN PARENTHASIS REPRESENT KITCHEN EQUIPMENT NUMBERS. SPARE NOTES (AS A TOTAL RECEPTACLES (VA) = 76,021 4. PROVIDE CKT BREAKER LOCKING DEVICE WHERE NOTED AND FOR FACU AND UNIT RECEPTACLES FIRST 10 KVA 10,000 10,000 TYPE SMOKE DETECTOR CIRCUITS. 1 00 COORDINA RECEPTACLES > 10 KVA 66,021 33,010 5. PROVIDE ARC FAULT CIRCUIT BREAKERS FOR ALL 120V, 15A & 20A PATIENT 0.50 2. SEE ESTIM LIGHTING 10,486 1.25 13,108 ROOM BRANCH CIRCUITS SUPPLYING OUTLETS AND DEVICES. MISCELLANEOUS EQUIPMENT 6. COORDINATE SPD CIRCUIT BREAKER TRIP WITH SPD PROVIDED. 1.00 OTHER EQUIPMENT (CONTINUOUS) 217,519 271,899 5. SHUNT TRIP CIRCUIT BREAKER. 1.25 DEMAND SUM LARGEST MOTOR 7. GFCI CIRCUIT BRAKER. OTAL RECEP 1.25 HVAC EQUIPMENT (FLA = MCA X 0.8) 8. EXISTING LOADS ARE ESTIMATED. 1.00 RECEPTA KITCHEN EQUIPMENT 0.65 9. KITCHEN EQUIPMENT DEMAND FACTOR PER NEC TABLE 220.56 RECEPTA _____ TOTAL CONNECTED (VA) 304,026 10. THE MCB SHALL BE 100% RATED & PROVIDED WITH AN ARC ENERGY REDUCTION LIGHTING TOTAL DEMAND (VA) MAINTENANCE SWITCH PER NEC ART. 240.87. MISCELLANEO 328,017 TOTAL DEMAND (AMPERES) 11. PROVIDE CB WITH SHUNT TRIP ACCESSORY. OTHER EQUIF 910.5

PANEL DEMAND LOADING VS RATING 1





el P11											Panel P12	
	208	120	VOLTS	6, 3	PHASE,	4	WIRE		PROVIDE	XX EQUIPMENT GROUND BUS	TYPE:	20
	MOUNT:	SURFACE							IF	XX 100 % NEUTRAL BUS	BOLT-ON	MOUN
IM	FEED:	TOP							CHECKED	ULSE LABEL	HINGED TRIM	FEED
	NEMA -	1	ENCLC	SURE						ISOLATED GROUND BAR		NEM
	LOAD	CKT BKR	CKT	PH	ASE LOAD		СКТ	CKT BKR	LOAD			LO
/ED	VA	TRIP/POLES		A	В	С	#	TRIP/POLES	VA	LOAD SERVED	LOAD SERVED	V
K	1,080	20/1	1	1,440			2	20/1	360	RCPS: OVERHEAD APP BAY	RCP: PRIV TLT, LOCKER	18
K	1,080	20/1	3		1,440		4	20/1	360	RCPS: OVERHEAD APP BAY	RCPS: PRIV TLT, LOCKER	54
K	1,080	20/1	5	1 1 1 0		1,440	6	20/1	360	RCPS: OVERHEAD APP BAY	RCPS: STIR, CORR, KITCHEN	72
K	1,080	20/1	7	1,440	= 10		8	20/1	360	RCPS: OVERHEAD APP BAY	RCP: WASHER	1,2
RIOR AT MECH EQ	180	20/1	9		540	1.000	10	20/1	360	RCPS: OVERHEAD APP BAY	RCP: DRYER	2,5
BAY	720	20/1	11			1,080	12	20/1	360	RCPS: OVERHEAD APP BAY		2,5
BAY	540	20/1	13	900	1.000		14	20/1	360	RCPS: OVERHEAD APP BAY	RCP: REFRIG	1,2
BAY	720	20/1	15		1,080	075	16	20/1	360	RCPS: OVERHEAD APP BAY	RCP: REFRIG	1,2
MOTOR #1	315	15/3	17	405		675	18	20/1	360	RCPS: EXTERIOR AT FOLDING DOORS	RCP: REFRIG	1,2
	315		19	495	075		20	20/1	180			1,1
NOTOR //2	315	1	21		675	1.025	22	20/1	360	RCPS: ELEV SUMP PUMP LEVEL ALARM	(SHUNT TRIP)	
MOTOR #2	315	15/3	23	4.014		1,035	24	20/1	720	RCPS: ENTRY STAIRS, DOOR BELL	RCP: MICROWAVE (SHUNT TRIP)	1,1
	315		25	4,014	4.014		26	50/3	3,699 3,699	AIR COMP D.S. (10 HP)		
MOTOR #3	315	15/0	27		4,014	4.014	28		3,699		RP: KITCHEN COUNTER (SHUNT TRIP)	18
MOTOR #3	315	15/3	29 31	1,395		4,014	30 32	20/1	3,699	RPS: SCBA, TO GEAR, DECON		
	315		-	1,395	1,792		32 34		1,000	- , ,	RCP: KITCHEN (SHUNT TRIP)	18
MOTOR #4	315 315	15/3	33 35		1,792	1,792	34 36	20/2	1,477		RCP: COFFEE	1,5
MOTOR #4	315	15/3	35	965		1,792	30	15/2	650	GEAR WASHER D.S.	(SHUNT TRIP)	1,5
	315		39	905	965		40	15/2	650	GEAR WASHER D.S.	LTS: APPARATUS BAY	1,5
ON TLT	540	20/1	41		905	3,192	40	30/2	2,652	GEAR DRYER D.S.	SPARE	
CHARGER	4,160	50/2	41	6,812		5,192	42	30/2	2,652	GEAR DRIER D.S.	LTS: APPARATUS BAY	98
HANGEN	4,160	30/2	45	0,012	8,320		44	50/2	4,160	I RCP: CAR CHARGER	LTS: CORR, LAUNDRY, LOCKERS	1,3
CHARGER	4,160	50/2	47		0,320	8,320	40	1	4,160		SPARE	
JIAKGER	4,160	30/2	49	4,160		0,020	50	20/1	1,100	SPARE	SPARE	
	1,100	20/1	51	1,100			52	20/1		SPARE	LTS: APPARATUS BAY	1,5
		20/1	53				54	20/1		SPARE	SPARE	
APPLICABLE):		20/1	00	21,621	18,826	21,548	-	L PHASE VA	200	A. BUS (COPPER, UNO)	ST ARE	
NATE CIRCUIT BREAKER TRIP WITH				180	157	180		L PHASE AMP		A. MAIN LUGS AND/OR FEEDER RATING		
IMATED LOAD SUMMARY FOR SERV	ICE SIZING CAI	CULATIONS.		35%	30%			E BALANCE		KAIC MINIMUM RATING		
	00111	DEMAND		DEMAND					•			0.01
	CONN. (VA)	DEMAND		DEMAND				TES (AS APPL				100 (V)
JMMARY: EPTACLES (VA) = 40,	. ,	FACTOR		(VA)	-					NT KITCHEN EQUIPMENT NUMBERS.	DEMAND SUMMARY: TOTAL RECEPTACLES (VA) = 13,0	
PTACLES FIRST 10 KVA	10,000	1.00		10,000				DETECTOR (/ICE WHERE NOTED AND FOR FACU AND UNIT	RECEPTACLES FIRST 10 KVA	040 10,0
PTACLES > 10 KVA	30,179	0.50		15,089						FOR ALL 120V, 15A & 20A PATIENT	RECEPTACLES > 10 KVA	3,0
	00,110	1.25		10,000						OUTLETS AND DEVICES.	LIGHTING	7,8
IEOUS EQUIPMENT	3,780	1.20		3,780						TRIP WITH SPD PROVIDED.	MISCELLANEOUS EQUIPMENT	1,0
JIPMENT (CONTINUOUS)	10,638	1.25		13,298							OTHER EQUIPMENT (CONTINUOUS)	98
IOTOR	10,000	1.25		10,200				T BRAKER.			LARGEST MOTOR	50
PMENT (FLA = MCA X 0.8)	7,398	1.00		7,398				ADS ARE EST			HVAC EQUIPMENT (FLA = MCA X 0.8)	
QUIPMENT	.,	1.00		.,						OR PER NEC TABLE 220.56	KITCHEN EQUIPMENT 9	9,4
TOTAL CONNECTED (VA) 61,995				-					ROVIDED WITH AN ARC ENERGY REDUCTION	TOTAL CONNECTED (
TOTAL DEMAND (,			49,565				CE SWITCH PE			TOTAL DEMAND (,
TOTAL DEMAND (AMPERI	,			137.6				WITH SHUNT			TOTAL DEMAND (AMPERE	,
PANEL DEMAND LOADING VS RATI										-	PANEL DEMAND LOADING VS RATI	



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003132 GEOTECHNICAL DATA GEOTECHNICAL EXPLORATION REPORT PREPARED BY ECS SOUTHEAST, LLP.

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END OF SECTION 000200

Addendum No. 2 SECTION 011000 - SUMMARY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Project information.
 - 2. Work covered by Contract Documents.
 - 3. Phased construction.
 - 4. Owner-furnished products.
 - 5. Access to site.
 - 6. Work restrictions.
 - 7. Specification and drawing conventions.
 - 8. Miscellaneous provisions.
- B. Related Requirements:
 - 1. See Sections 001 "Advertisement for Bids" and 002 "Instructions to Bidders" for bid procedures and forms, bonding requirements, MBE/DBE requirements, Supplementary General Conditions, draft Contract for Construction and other requirements. These two sections take precedence over all other Division 1 specifications.
 - 2. Section 015000 "Temporary Facilities and Controls" for limitations and procedures governing temporary use of Owner's facilities.

1.3 **PROJECT INFORMATION**

- A. Project Identification: North Topsail Beach Fire Station #2.
 - 1. Project Location: 3304 Gray Street, North Topsail Beach, North Carolina 28460.
- B. Owner: Town of North Topsail
 - 1. Owner's Representative: Alice Derian.
 - 2. Contact Email: <u>aderian@northtopsailbeachnc.gov</u>
- C. Architect: Becker Morgan Group, Inc.
 - 1. Architect's Representative: Brice Reid, AIA.
 - 2. Contact Email: <u>breid@beckermorgan.com</u>
- D. Architect's Consultants: The Architect has retained the following design professionals who have prepared designated portions of the Contract Documents:

- 1. Civil Engineering:
 - a. Paramounte Engineering, Inc.
 - b. Contact: Robert Balland, PE; rballand@paramounte-eng.com
- 2. Structural Engineering:
 - a. Woods Engineering, PA
 - b. Contact: Adam Sisk, PE; asisk@woodseng.com
- 3. Mechanical, Electrical, Plumbing Engineering:
 - a. CBHF Engineers, PLLC
 - b. Electrical Contact: Allen Cribb, PE; <u>acribb@cbhfengineers.com</u>
 - c. Mechanical Contact: Troy Grady, PE; <u>tgrady@cbhfengineers.com</u>
- E. Project Web Site: A project Web site administered by Architect will be used for purposes of managing communication and documents during the construction stage.
 - 1. See Section 013100 "Project Management and Coordination." for requirements for using the Project Web site.

1.4 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Work of Project is defined by the Contract Documents and consists of the following:
 - 1. The project consists of the construction of approximately 11,643 sf of new building and related site work for the Town of North Topsail Beach Fire Station No. 2. The project will include:
 - a. Site Approximately .38 acres total land area includes: earthwork; utilities; parking; entrances; pedestrian and vehicular paving; stormwater structures; and landscaping. Site lighting, other than exterior building lighting, is to be provided by Jones Onslow EMC.
 - Building ground supported reinforced concrete foundations; reinforced concrete b. slab on grade; structural metal studs and concrete block wall construction; stone veneer; cementitious siding; aluminum windows and storefront; membrane roofing; rigid, batt and foam insulation; interior metal studs; gypsum wallboard; acoustic panel ceilings; solid wood doors; fiberglass reinforced doors and frames; door hardware; ceramic tile; paint; casework; lockers; residential appliances and fire fighter specialties. Building systems utilities: underground electric service; panelboards; interior and exterior lighting; switches/receptacles; underground propane tank; diesel-fueled engine-generator; automatic power transfer switch; automatic fire detection and alarm system; empty conduit for voice, data, video and security systems; high-efficiency mechanical systems; outside air ventilation/energy recovery units; metal and flexible insulated air distribution ducts; dampers; air devices; automatic temperature controls; domestic hot and cold water; plumbing fixtures and fittings; sanitary and storm sewer; and automatic fire extinguishment system. All utilities connected to municipal services.

- B. Type of Contract:
 - 1. Project will be constructed under a single prime contract.

1.5 OWNER-FURNISHED PRODUCTS

- A. Owner will furnish products indicated. The Work includes receiving, unloading, handling, storing, protecting, and installing Owner-furnished products.
- B. Owner-Furnished Products:
 - 1. Gear Washer in Room 112.
 - 2. Gear Dryer in Room 112
 - 3. Ice Machine in Room 113.
 - 4. Clothes Washer/Dryer in Room 106.
 - 5. Air Compressor in Room 114
 - 6. Microwave Ovens in Room 105.
 - 7. Gas Range with Oven in Room 105.
 - 8. Range Hood in Room 105.
 - 9. Televisions in Rooms 104, 206 and 209. (Owner Installed).
 - 10. Computer Monitors throughout the building.
 - 11. Speaker system located throughout the building.
 - 12. Water Heater in Mezzanine 212.
 - 13. Outdoor Propane Grill at Patio

1.6 ACCESS TO SITE

- A. General: Contractor shall have full use of Project site for construction operations during construction period. Contractor's use of Project site is limited only by Owner's right to perform work or to retain other contractors on portions of Project.
- 1.7 WORK RESTRICTIONS
 - A. Work Restrictions, General: Comply with restrictions on construction operations.
 - 1. Comply with limitations on use of public streets and with other requirements of authorities having jurisdiction.
 - B. On-Site Work Hours: Limit work in the existing building to normal business working hours of 7:00 a.m. to 5:00 p.m., Monday through Friday, unless otherwise indicated.
 - C. Nonsmoking Building: Smoking is not permitted within the building or within 25 feet of entrances, operable windows, or outdoor-air intakes.
 - D. Controlled Substances: Use of tobacco products and other controlled substances on Project site is not permitted.
 - E. Employee Screening: Comply with Owner's requirements for drug and background screening of Contractor personnel working on Project site.
 - 1. Maintain list of approved screened personnel with Owner's representative.

1.8 SPECIFICATION AND DRAWING CONVENTIONS

- A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
 - 1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
 - 2. Specification requirements are to be performed by Contractor unless specifically stated otherwise.
- B. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.
- C. Drawing Coordination: Requirements for materials and products identified on Drawings are described in detail in the Specifications. One or more of the following are used on Drawings to identify materials and products:
 - 1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.
 - 2. Abbreviations: Materials and products are identified by abbreviations published as part of the U.S. National CAD Standard and scheduled on Drawings.
 - 3. Keynoting: Materials and products are identified by reference keynotes referencing Specification Section numbers found in this Project Manual.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 011000

Addendum No. 2

SECTION 012900 - PAYMENT PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements necessary to prepare and process Applications for Payment.
- B. Related Requirements:
 - 1. Section 012600 "Contract Modification Procedures" for administrative procedures for handling changes to the Contract.
 - 2. Section 013200 "Construction Progress Documentation" for administrative requirements governing the preparation and submittal of the Contractor's construction schedule.

1.3 DEFINITIONS

A. Schedule of Values: A statement furnished by Contractor allocating portions of the Contract Sum to various portions of the Work and used as the basis for reviewing Contractor's Applications for Payment.

1.4 SCHEDULE OF VALUES

- A. Coordination: Coordinate preparation of the schedule of values with preparation of Contractor's construction schedule.
 - 1. Coordinate line items in the schedule of values with other required administrative forms and schedules, including the following:
 - a. Application for Payment forms with continuation sheets.
 - b. Submittal schedule.
 - c. Items required to be indicated as separate activities in Contractor's construction schedule.
 - 2. Submit the schedule of values to Architect at earliest possible date, but no later than seven days before the date scheduled for submittal of initial Applications for Payment.
- B. Format and Content: Use Project Manual table of contents as a guide to establish line items for the schedule of values. Provide at least one line item for each Specification Section.
 - 1. Identification: Include the following Project identification on the schedule of values:
 - a. Project name and location.

- b. Name of Architect.
- c. Architect's project number.
- d. Contractor's name and address.
- e. Date of submittal.
- 2. Arrange schedule of values consistent with format of AIA Document G703.
- 3. Arrange the schedule of values in tabular form with separate columns to indicate the following for each item listed:
 - a. Related Specification Section or Division.
 - b. Description of the Work.
 - c. Name of subcontractor.
 - d. Name of manufacturer or fabricator.
 - e. Name of supplier.
 - f. Change Orders (numbers) that affect value.
 - g. Dollar value of the following, as a percentage of the Contract Sum to nearest onehundredth percent, adjusted to total 100 percent.
 - 1) Labor.
 - 2) Materials.
 - 3) Equipment.
- 4. Provide a breakdown of the Contract Sum in enough detail to facilitate continued evaluation of Applications for Payment and progress reports. Coordinate with Project Manual table of contents. Provide multiple line items for principal subcontract amounts in excess of five percent of the Contract Sum.
- 5. Round amounts to nearest whole dollar; total shall equal the Contract Sum.
- 6. Provide a separate line item in the schedule of values for each part of the Work where Applications for Payment may include materials or equipment purchased or fabricated and stored, but not yet installed.
 - a. Differentiate between items stored on-site and items stored off-site. If required, include evidence of insurance.
- 7. Provide separate line items in the schedule of values for initial cost of materials, for each subsequent stage of completion, and for total installed value of that part of the Work.
- 8. Purchase Contracts: Provide a separate line item in the schedule of values for each purchase contract. Show line-item value of purchase contract. Indicate owner payments or deposits, if any, and balance to be paid by Contractor.
- 9. Each item in the schedule of values and Applications for Payment shall be complete. Include total cost and proportionate share of general overhead and profit for each item.
 - a. Temporary facilities and other major cost items that are not direct cost of actual work-in-place may be shown either as separate line items in the schedule of values or distributed as general overhead expense, at Contractor's option.
- 10. Schedule Updating: Update and resubmit the schedule of values before the next Applications for Payment when Change Orders or Construction Change Directives result in a change in the Contract Sum.

1.5 APPLICATIONS FOR PAYMENT

- A. Each Application for Payment following the initial Application for Payment shall be consistent with previous applications and payments as certified by Architect and paid for by Owner.
 - 1. Initial Application for Payment, Application for Payment at time of Substantial Completion, and final Application for Payment involve additional requirements.
- B. Payment Application Times: The date for each progress payment is indicated in the Agreement between Owner and Contractor. The period of construction work covered by each Application for Payment is the period indicated in the Agreement.
- C. Application for Payment Forms: Use AIA Document G702 and AIA Document G703 as form for Applications for Payment.
- D. Application Preparation: Complete every entry on form. Notarize and execute by a person authorized to sign legal documents on behalf of Contractor. Architect will return incomplete applications without action.
 - 1. Entries shall match data on the schedule of values and Contractor's construction schedule. Use updated schedules if revisions were made.
 - 2. Include amounts for work completed following previous Application for Payment, whether or not payment has been received. Include only amounts for work completed at time of Application for Payment.
 - 3. Include amounts of Change Orders and Construction Change Directives issued before last day of construction period covered by application.
 - 4. Indicate separate amounts for work being carried out under Owner-requested project acceleration.
- E. Stored Materials: Include in Application for Payment amounts applied for materials or equipment purchased or fabricated and stored, but not yet installed. Differentiate between items stored on-site and items stored off-site.
 - 1. Provide certificate of insurance, evidence of transfer of title to Owner, and consent of surety to payment, for stored materials.
 - 2. Provide supporting documentation that verifies amount requested, such as paid invoices. Match amount requested with amounts indicated on documentation; do not include overhead and profit on stored materials.
 - 3. Provide summary documentation for stored materials indicating the following:
 - a. Value of materials previously stored and remaining stored as of date of previous Applications for Payment.
 - b. Value of previously stored materials put in place after date of previous Application for Payment and on or before date of current Application for Payment.
 - c. Value of materials stored since date of previous Application for Payment and remaining stored as of date of current Application for Payment.
- F. Transmittal: Submit three signed and notarized original copies of each Application for Payment to Architect by a method ensuring receipt within 24 hours. One copy shall include waivers of lien and similar attachments if required.
 - 1. Transmit each copy with a transmittal form listing attachments and recording appropriate information about application.

- G. Waivers of Mechanic's Lien: With each Application for Payment, submit waivers of mechanic's lien from entities lawfully entitled to file a mechanic's lien arising out of the Contract and related to the Work covered by the payment.
 - 1. Submit partial waivers on each item for amount requested in previous application, after deduction for retainage, on each item.
 - 2. When an application shows completion of an item, submit conditional final or full waivers.
 - 3. Owner reserves the right to designate which entities involved in the Work must submit waivers.
 - 4. Waiver Forms: Submit executed waivers of lien on forms acceptable to Owner.
- H. Initial Application for Payment: Administrative actions and submittals that must precede or coincide with submittal of first Application for Payment include the following:
 - 1. List of subcontractors.
 - 2. Schedule of values.
 - 3. Contractor's construction schedule (preliminary if not final).
 - 4. Combined Contractor's construction schedule (preliminary if not final) incorporating work of multiple contracts, with indication of acceptance of schedule by each Contractor.
 - 5. Products list (preliminary if not final).
 - 6. Schedule of unit prices.
 - 7. Submittal schedule (preliminary if not final).
 - 8. List of Contractor's staff assignments.
 - 9. List of Contractor's principal consultants.
 - 10. Copies of building permits.
 - 11. Copies of authorizations and licenses from authorities having jurisdiction for performance of the Work.
 - 12. Initial progress report.
 - 13. Report of preconstruction conference.
 - 14. Certificates of insurance and insurance policies.
 - 15. Performance and payment bonds.
 - 16. Data needed to acquire Owner's insurance.
- I. Application for Payment at Substantial Completion: After Architect issues the Certificate of Substantial Completion, submit an Application for Payment showing 100 percent completion for portion of the Work claimed as substantially complete.
 - 1. Include documentation supporting claim that the Work is substantially complete and a statement showing an accounting of changes to the Contract Sum.
 - 2. This application shall reflect Certificate(s) of Substantial Completion issued previously for Owner occupancy of designated portions of the Work.
- J. Final Payment Application: After completing Project closeout requirements, submit final Application for Payment with releases and supporting documentation not previously submitted and accepted, including, but not limited, to the following:
 - 1. Evidence of completion of Project closeout requirements.
 - 2. Insurance certificates for products and completed operations where required and proof that taxes, fees, and similar obligations were paid.
 - 3. Updated final statement, accounting for final changes to the Contract Sum.

- 4. AIA Document G706, "Contractor's Affidavit of Payment of Debts and Claims."
- 5. AIA Document G706A, "Contractor's Affidavit of Release of Liens."
- 6. AIA Document G707, "Consent of Surety to Final Payment."
- 7. Final meter readings for utilities, a measured record of stored fuel, and similar data as of date of Substantial Completion or when Owner took possession of and assumed responsibility for corresponding elements of the Work.
- 8. Final liquidated damages settlement statement.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 012900

Addendum No. 2

SECTION 044313.16 - ADHERED MANUFACTURED STONE VENEER

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Portland cement based manufactured stone veneer adhered to sheathing.

1.2 ACTION SUBMITTALS

- A. Product Data: For each variety of stone, stone accessory, and manufactured product.
- B. Samples for Verification:
 - 1. For each stone type indicated. Include at least three Samples in each set and show the full range of color and other visual characteristics in completed Work.
 - 2. For each color of mortar required. Label Samples to indicate types and amounts of pigments used.

1.3 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Material Test Reports:
 - 1. Stone Test Reports: For each stone variety proposed for use on Project, by a qualified testing agency, indicating compliance with required physical properties, other than abrasion resistance, according to referenced ASTM standards. Base reports on testing done within previous three years.
 - 2. Sealant Compatibility and Adhesion Test Report: From sealant manufacturer, indicating that sealants will not stain or damage stone. Include interpretation of test results and recommendations for primers and substrate preparation needed for adhesion.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified installer who employs experienced stonemasons and stone fitters.
- B. Mockups: Build mockups to demonstrate aesthetic effects and to set quality standards for materials and execution.
 - 1. Build mockups for typical exterior wall in sizes approximately 48 inches long by 60 inches high by full thickness, including face and backup construction and accessories.
 - a. Include stone coping at top of mockup.
 - b. Include a sealant-filled joint at least 16 inches long in mockup.

- c. Include through-wall flashing installed for a 24-inch length in corner of mockup approximately 16 inches down from top of mockup, with a 12-inch length of flashing left exposed to view (omit stone masonry above half of flashing).
- d. Include sheathing, weather barrier, and flashing in exterior masonry-veneer wall mockup.
- 2. Protect accepted mockups from the elements with weather-resistant membrane.
- 3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store cementitious materials on elevated platforms, under cover, and in a dry location. Do not use cementitious materials that have become damp.
- B. Store aggregates where grading and other required characteristics can be maintained, and contamination avoided.
- C. Deliver preblended, dry mortar mix in moisture-resistant containers designed for use with dispensing silos. Store preblended, dry mortar mix in delivery containers on elevated platforms, under cover, in a dry location, or in covered weatherproof dispensing silos.

1.6 FIELD CONDITIONS

- A. Protection of Stone Masonry: During construction, cover tops of walls, projections, and sills with waterproof sheeting at end of each day's work. Cover partially completed stone masonry when construction is not in progress.
 - 1. Extend cover a minimum of 24 inches down both sides, and hold cover securely in place.
- B. Stain Prevention: Immediately remove mortar and soil to prevent them from staining stone masonry face.
 - 1. Protect base of walls from rain-splashed mud and mortar splatter, using coverings spread on the ground and over the wall surface.
 - 2. Protect sills, ledges, and projections from mortar droppings.
 - 3. Protect surfaces of window and door frames, as well as similar products with painted and integral finishes, from mortar droppings.
 - 4. Turn scaffold boards near the wall on edge at end of each day to prevent rain from splashing mortar and dirt on completed stone masonry.
- C. Cold-Weather Requirements: Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen substrates. Remove and replace stone masonry damaged by frost or freezing conditions. Comply with cold-weather construction requirements contained in TMS 602/ACI 530.1/ASCE 6.
 - 1. Cold-Weather Cleaning: Use liquid cleaning methods only when air temperature is 40 deg F and above and will remain so until masonry has dried, but not less than seven days after completing cleaning.

D. Hot-Weather Requirements: Comply with hot-weather construction requirements contained in TMS 602/ACI 530.1/ASCE 6.

1.7 COORDINATION

- A. Advise installers of other work about specific requirements for placement of flashing and similar items to be built into stone masonry.
- 1.8 WARRANTY
 - A. Special Warranty: Manufacturer's standard warranty coverage against defects in materials when installed in accordance with manufacturer's installation instructions.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis of Design: Stone Veneer as manufactured by Oldcastle Architectural or equal.
 - 1. Hillcrest Stone
 - 2. Color: As selected by architect from manufacturer's standard color options

2.2 MANUFACTURED STONE

- A. Veneer Unit properties: Precast veneer units consisting of portland cement, lightweight aggregates, and mineral oxide pigments.
 - 1. Compressive Strength: ASTM C 192 and ASTM C 39, 5 sample average: greater than 1,800 psi.
 - 2. Shear Bond: ASTM C 482: 50 psi, minimum.
 - 3. Freeze-Thaw Test: ASTM C 67: Less than 3 percent weight loss and no disintegration.
 - 4. Thermal Resistance: ASTM C 177: 0.473 at 1.387 inches thick
 - 5. Weight per square foot: 2018 IBC, ASTM C1670, 15 pounds, saturated.

2.3 MORTAR MATERIALS

- A. Cement: Portland cement complying with ASTM C 1329.
- B. Lime: ASTM C 207.
- C. Sand: ASTM C 144, natural or manufactured sand.
- D. Color Pigment: ASTM C 979, mineral oxide pigments.
- E. Water: Potable.
- F. Pre-Packaged Latex-Portland Cement Mortar: ANSI A118.4.

2.4 EMBEDDED FLASHING MATERIALS

- A. Metal Flashing: Provide metal flashing, where flashing is exposed or partly exposed and where indicated, complying with SMACNA's "Architectural Sheet Metal Manual" and as follows:
 - 1. Stainless Steel: ASTM A240/A240M, Type 304, 0.016 inch thick.
 - 2. Fabricate continuous flashings in sections 96 inches long minimum, but not exceeding 12 feet. Provide splice plates at joints of formed, smooth metal flashing.
 - 3. Fabricate through-wall flashing with drip edge where indicated. Fabricate by extending flashing 1/2 inch out from wall, with outer edge bent down 30 degrees and hemmed.
- B. Flexible Flashing: For flashing unexposed to the exterior, use one of the following unless otherwise indicated:
 - 1. Rubberized-Asphalt Flashing: Composite flashing product consisting of a pliable, adhesive, rubberized-asphalt compound, bonded to a high-density, cross-laminated, polyethylene film to produce an overall thickness of not less than 0.040 inch.
 - 2. Elastomeric Thermoplastic Flashing: Composite flashing product consisting of a polyester-reinforced ethylene interpolymer alloy as follows:
 - a. Self-Adhesive Sheet: Elastomeric thermoplastic flashing, 0.025 inch thick, with a 0.015-inch-thick coating of rubberized-asphalt adhesive.
 - b. Self-Adhesive Sheet with Drip Edge: Elastomeric thermoplastic flashing, 0.025 inch thick, with a 0.015-inch-thick coating of rubberized-asphalt adhesive. Where flashing extends to masonry face, rubberized-asphalt coating is held back approximately 1-1/2 inches from edge.
 - c. Accessories: Provide preformed corners, end dams, other special shapes, and seaming materials produced by flashing manufacturer.
 - 3. EPDM Flashing: Sheet flashing product made from ethylene-propylene-diene terpolymer, complying with ASTM D4637/D4637M, 0.040 inch thick.
- C. Application: Unless otherwise indicated, use the following:
 - 1. Where flashing is indicated to receive counterflashing, use metal flashing.
 - 2. Where flashing is indicated to be turned down at or beyond wall face, use metal flashing.
 - 3. Where flashing is partly exposed and is indicated to terminate at wall face, use metal flashing with a drip edge or flexible flashing with a metal drip edge.
 - 4. Where flashing is fully concealed, use metal flashing or flexible flashing.
- D. Solder and Sealants for Sheet Metal Flashings: As specified in Section 076200 "Sheet Metal Flashing and Trim."
- E. Adhesives, Primers, and Seam Tapes for Flexible Flashings: Flashing manufacturer's standard products or products recommended by flashing manufacturer for bonding flashing sheets to each other and to substrates.

2.5 MASONRY ACCESSORIES

A. Reinforcing: ASTM C 847, 2.5lb/sq. yd. G60 galvanized expanded metal lath complying with code agency requirements for the type of substrate over which stone veneer is installed.

- B. Compressible Filler: Premolded filler strips complying with ASTM D1056, Grade 2A1; compressible up to 35 percent; of width and thickness indicated; formulated from neoprene, urethane or PVC.
- C. Bonding Agent: Exterior integral bonding agent meeting ASTM C 932.
- D. Water Repellent: Water based silane or siloxane masonry water repellent.
- E. Weather Barrier: See Section 072726 Fluid Applied Membrane Waterproofing.
- 2.6 FABRICATION
 - A. General: Fabricate stone units in sizes and shapes required to comply with requirements indicated.
 - B. Dress joints (bed and vertical) straight and at right angle to face unless otherwise indicated. Shape beds to fit supports.
 - C. Gage backs of stones for adhered veneer if more than 81 sq. in. in area.
 - D. Finish exposed stone faces and edges to comply with requirements indicated for finish and to match approved samples and mockups.
- 2.7 MORTAR MIXES
 - A. Standard Installation Grouted Joints:
 - 1. Mix mortar in accordance with ASTM C 270,
 - 2. Polymer modified mortar complying with ANSI A118.4
 - 3. Add color pigment in grout joint mortar in accordance with pigment manufacturer's instructions not to exceed 10% by weight of cement.

PART 3 - EXECUTION

- 3.1 EXAMINATION
 - A. Examine substrates upon which work will be installed.
 - B. Coordinate with responsible entity to perform corrective work on unsatisfactory substrates.
 - C. Commencement of work by installer is acceptance of substrate.
- 3.2 PREPARATION
 - A. Protection: Protect adjacent work from contact with mortar.
 - B. Surface Preparation: Prepare substrate in accordance with manufacturer's installation instructions for the type of substrate being covered.

3.3 INSTALLATION

- A. Install and clean stone in accordance with manufacturer's installation instructions for Standard Installation Grouted Joint installation as specified above.
- B. Apply repellent in accordance with repellent manufacturer's application instructions.

3.4 FIELD QUALITY CONTROL

A. Manufacturer's Field Services: Manufacturer's Field Service Representative shall make two periodic site visits review of on-going installation process but is not responsible for any errors or omissions that are not observed or are previously completed.

3.5 CLEANING

- A. Remove protective coverings from adjacent work.
- B. Cleaning Veneer Units:
 - 1. Wash with soft bristle brush and water/granulated detergent solution.
 - 2. Rinse immediately with clean water
- C. Removing Efflorescence:
 - 1. Allow veneer to dry thoroughly.
 - 2. Scrub with soft bristle brush and clean water.
 - 3. Rinse immediately with clean water; allow to dry.
 - 4. If efflorescence is still visible, contact manufacturer for assistance.

END OF SECTION 044313.16

Addendum No. 2 SECTION 075419 - POLYVINYL-CHLORIDE (PVC) ROOFING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Adhered polyvinyl-chloride (PVC) roofing system.
 - 2. Roof insulation.

B. Related Requirements:

- 1. Section 061000 "Rough Carpentry" for wood nailers, curbs, and blocking.
- 2. Section 076200 "Sheet Metal Flashing and Trim" for metal roof flashings and counterflashings.
- 3. Section 079200 "Joint Sealants" for joint sealants, joint fillers, and joint preparation.

1.3 DEFINITIONS

- A. Roofing Terminology: Definitions in ASTM D 1079 and glossary in NRCA's "The NRCA Roofing and Waterproofing Manual" apply to work of this Section.
- 1.4 PREINSTALLATION MEETINGS
 - A. Preinstallation Roofing Conference: Conduct conference at Project site.
 - 1. Meet with Owner, Architect, Owner's insurer if applicable, testing and inspecting agency representative, roofing Installer, roofing system manufacturer's representative, deck Installer, and installers whose work interfaces with or affects roofing, including installers of roof accessories and roof-mounted equipment.
 - 2. Review methods and procedures related to roofing installation, including manufacturer's written instructions.
 - 3. Review and finalize construction schedule, and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - 4. Examine deck substrate conditions and finishes for compliance with requirements, including flatness and fastening.
 - 5. Review structural loading limitations of roof deck during and after roofing.
 - 6. Review base flashings, special roofing details, roof drainage, roof penetrations, equipment curbs, and condition of other construction that affects roofing system.
 - 7. Review governing regulations and requirements for insurance and certificates if applicable.

- 8. Review temporary protection requirements for roofing system during and after installation.
- 9. Review roof observation and repair procedures after roofing installation.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: For roofing system. Include plans, elevations, sections, details, and attachments to other work, including:
 - 1. Base flashings and membrane terminations.
 - 2. Tapered insulation, including slopes.
 - 3. Roof plan showing orientation of steel roof deck and orientation of roofing, fastening spacing, and patterns for mechanically fastened roofing.
 - 4. Insulation fastening patterns for corner, perimeter, and field-of-roof locations.
- C. Samples for Verification: For the following products:
 - 1. Sheet roofing of color required.
 - 2. Walkway pads or rolls, of color required.

1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer and manufacturer.
- B. Manufacturer Certificates: Signed by roofing manufacturer certifying that roofing system complies with requirements specified in "Performance Requirements" Article.
 - 1. Submit evidence of compliance with performance requirements.
- C. Product Test Reports: For components of roofing system, for tests performed by manufacturer and witnessed by a qualified testing agency.
- D. Research/Evaluation Reports: For components of roofing system, from ICC-ES.
- E. Field quality-control reports.
- F. Sample Warranties: For manufacturer's special warranties.
- 1.7 CLOSEOUT SUBMITTALS
 - A. Maintenance Data: For roofing system to include in maintenance manuals.
- 1.8 QUALITY ASSURANCE
 - A. Installer Qualifications: A qualified firm that is approved, authorized, or licensed by roofing system manufacturer to install manufacturer's product and that is eligible to receive manufacturer's special warranty.

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Deliver roofing materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, approval or listing agency markings, and directions for storing and mixing with other components.
- B. Store liquid materials in their original undamaged containers in a clean, dry, protected location and within the temperature range required by roofing system manufacturer. Protect stored liquid material from direct sunlight.
 - 1. Discard and legally dispose of liquid material that cannot be applied within its stated shelf life.
- C. Protect roof insulation materials from physical damage and from deterioration by sunlight, moisture, soiling, and other sources. Store in a dry location. Comply with insulation manufacturer's written instructions for handling, storing, and protecting during installation.
- D. Handle and store roofing materials, and place equipment in a manner to avoid permanent deflection of deck.

1.10 FIELD CONDITIONS

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit roofing system to be installed according to manufacturer's written instructions and warranty requirements.
- B. Special Warranty: Manufacturer agrees to repair or replace components of roofing system that fail in materials or workmanship within specified warranty period.
 - 1. Special warranty includes membrane roofing, base flashings, fasteners, roofing accessories, and other components of roofing system.
 - 2. Warranty Period: 15 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Source Limitations: Obtain components including roof insulation, fasteners for roofing system from same manufacturer as membrane roofing or manufacturers approved by membrane roofing manufacturer.

2.2 PERFORMANCE REQUIREMENTS

- A. General Performance: Installed roofing and base flashings shall withstand specified uplift pressures, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Roofing and base flashings shall remain watertight.
 - 1. Accelerated Weathering: Roofing system shall withstand 2000 hours of exposure when tested according to ASTM G 152, ASTM G 154, or ASTM G 155.

- 2. Impact Resistance: Roofing system shall resist impact damage when tested according to ASTM D 3746 or ASTM D 4272.
- B. Material Compatibility: Roofing materials shall be compatible with one another and adjacent materials under conditions of service and application required, as demonstrated by roofing manufacturer based on testing and field experience.
- C. Roofing System Design: Tested by a qualified testing agency to resist the uplift pressures as indicated on the Structural Drawings.
 - 1. Basic Wind Speed: As indicated on the Structural Drawings.
 - 2. Exposure Category: As indicated on the Structural Drawings.
- D. Solar Reflectance Index (SRI): Three-year-aged SRI not less than 64 or initial SRI not less than 82 when calculated according to ASTM E 1980, based on testing identical products by a qualified testing agency.
- E. Energy Star Listing: Roofing system shall be listed on the DOE's ENERGY STAR "Roof Products Qualified Product List" for low-slope roof products.

2.3 PVC ROOFING

- A. PVC Sheet: ASTM D 4434/D 4434M, Type III, fabric reinforced.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Carlisle SynTec Incorporated.
 - b. Cooley Engineered Membranes.
 - c. Custom Seal Roofing.
 - d. Duro-Last Roofing, Inc.
 - e. Flex Membrane International Corp.
 - f. GAF Materials Corporation.
 - g. GenFlex Roofing Systems.
 - h. Johns Manville; a Berkshire Hathaway company.
 - i. Mule-Hide Products Co., Inc.
 - j. Versico Incorporated.
 - k. Soprema Incorporated.
 - l. Sika Sarnafil
 - 2. Thickness: 60 mils, nominal.
 - 3. Exposed Face Color: White.

2.4 AUXILIARY ROOFING MATERIALS

- A. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with roofing.
 - 1. Adhesives and Sealants: Comply with VOC limits of authorities having jurisdiction.

- B. Sheet Flashing: Manufacturer's standard sheet flashing of same material, type, reinforcement, thickness, and color as PVC sheet.
- C. Bonding Adhesive: Manufacturer's standard.
- D. Metal Termination Bars: Manufacturer's standard, predrilled stainless-steel or aluminum bars, approximately 1 by 1/8 inch thick; with anchors.
- E. Metal Battens: Manufacturer's standard, aluminum-zinc-alloy-coated or zinc-coated steel sheet, approximately 1 inch wide by 0.05 inch thick, pre-punched.
- F. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosionresistance provisions in FM Global 4470, designed for fastening roofing to substrate, and acceptable to roofing system manufacturer.
- G. Miscellaneous Accessories: Provide pourable sealers, preformed cone and vent sheet flashings, preformed inside and outside corner sheet flashings, T-joint covers, lap sealants, termination reglets, and other accessories.

2.5 ROOF INSULATION

- A. General: Preformed roof insulation boards manufactured or approved by PVC roofing manufacturer, selected from manufacturer's standard sizes suitable for application, of thicknesses indicated.
- B. Polyisocyanurate Board Insulation: ASTM C 1289, Type II, Class 1, Grade 2, felt or glass-fiber mat facer on both major surfaces.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. Atlas Roofing Corporation.
 - b. Carlisle Coatings & Waterproofing Inc.
 - c. Firestone Building Products.
 - d. Hunter Panels.
 - e. Rmax, Inc.

2.6 INSULATION ACCESSORIES

- A. General: Roof insulation accessories recommended by insulation manufacturer for intended use and compatibility with roofing.
- B. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosionresistance provisions in FM Global 4470, designed for fastening roof insulation to substrate, and acceptable to roofing system manufacturer.
- C. Insulation Adhesive: Insulation manufacturer's recommended adhesive formulated to attach roof insulation to substrate or to another insulation layer as follows:
 - 1. Full-spread spray-applied, low-rise, two-component urethane adhesive.
 - 2. Verify adhesives and sealants comply with the following limits for VOC content:

- a. Plastic Foam Adhesives: 50 g/L.
- b. Gypsum Board and Panel Adhesives: 50 g/L.
- c. Multipurpose Construction Adhesives: 70 g/L.
- d. Fiberglass Adhesives: 80 g/L.
- e. Contact Adhesives: 80 g/L.
- f. PVC Welding Compounds: 510 g/L.
- g. Other Adhesives: 250 g/L.
- h. Single-Ply Roof Membrane Sealants: 450 g/L.
- i. Nonmembrane Roof Sealants: 300 g/L.
- j. Sealant Primers for Nonporous Substrates: 250 g/L.
- k. Sealant Primers for Porous Substrates: 775 g/L.
- 3. <u>Verify adhesives and sealants comply</u> with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."

2.7 WALKWAYS

A. Flexible Walkways: Factory-formed, nonporous, heavy-duty, slip-resisting, surface-textured walkway rolls, approximately 3/16 inch thick and acceptable to roofing system manufacturer.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements and other conditions affecting performance of the Work:
 - 1. Verify that roof openings and penetrations are in place, curbs are set and braced, and roof-drain bodies are securely clamped in place.
 - 2. Verify that wood blocking, curbs, and nailers are securely anchored to roof deck at penetrations and terminations and that nailers match thicknesses of insulation.
 - 3. Verify that surface plane flatness and fastening of steel roof deck complies with requirements in Section 053100 "Steel Decking."
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Clean substrate of dust, debris, moisture, and other substances detrimental to roofing installation according to roofing system manufacturer's written instructions. Remove sharp projections.
- B. Prevent materials from entering and clogging roof drains and conductors and from spilling or migrating onto surfaces of other construction. Remove roof-drain plugs when no work is taking place or when rain is forecast.
- 3.3 ROOFING INSTALLATION, GENERAL
 - A. Install roofing system according to roofing system manufacturer's written instructions.

B. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing system at end of workday or when rain is forecast.

3.4 INSULATION INSTALLATION

- A. Coordinate installing roofing system components, so insulation is not exposed to precipitation or left exposed at the end of the workday.
- B. Comply with roofing system and insulation manufacturer's written instructions for installing roof insulation.
- C. Install tapered insulation under area of roofing to conform to slopes indicated.
- D. Install insulation under area of roofing to achieve required thickness. Where overall insulation thickness is 2.7 inches or greater, install two or more layers with joints of each succeeding layer staggered from joints of previous layer a minimum of 6 inches in each direction.
- E. Trim surface of insulation where necessary at roof drains so completed surface is flush and does not restrict flow of water.
- F. Install insulation with long joints of insulation in a continuous straight line with end joints staggered between rows, abutting edges and ends between boards. Fill gaps exceeding 1/4 inch with insulation.
 - 1. Cut and fit insulation within 1/4 inch of nailers, projections, and penetrations.
- G. Mechanically Fastened and Adhered Insulation: Install each layer of insulation to deck using mechanical fasteners specifically designed and sized for fastening specified board-type roof insulation to deck type.
 - 1. Set each subsequent layer of insulation in ribbons of bead-applied insulation adhesive, firmly pressing and maintaining insulation in place.
 - 2. Set each subsequent layer of insulation in a uniform coverage of full-spread insulation adhesive, firmly pressing and maintaining insulation in place.

3.5 ADHERED ROOFING INSTALLATION

- A. Adhere roofing over area to receive roofing according to roofing system manufacturer's written instructions. Unroll roofing and allow to relax before retaining.
 - 1. Install sheet according to ASTM D 5036.
- B. Start installation of roofing in presence of roofing system manufacturer's technical personnel.
- C. Accurately align roofing and maintain uniform side and end laps of minimum dimensions required by manufacturer. Stagger end laps.
- D. Bonding Adhesive: Apply to substrate and underside of roofing at rate required by manufacturer and allow to partially dry before installing roofing. Do not apply to splice area of roofing.
- E. In addition to adhering, mechanically fasten roofing securely at terminations, penetrations, and perimeter of roofing.

- F. Apply roofing with side laps shingled with slope of roof deck where possible.
- G. Seams: Clean seam areas, overlap roofing, and hot-air weld side and end laps of roofing and sheet flashings according to manufacturer's written instructions, to ensure a watertight seam installation.
 - 1. Test lap edges with probe to verify seam weld continuity. Apply lap sealant to seal cut edges of sheet.
 - 2. Verify field strength of seams a minimum of twice daily, and repair seam sample areas.
 - 3. Repair tears, voids, and lapped seams in roofing that do not comply with requirements.
- H. Spread sealant bed over deck-drain flange at roof drains, and securely seal roofing in place with clamping ring.
- 3.6 BASE FLASHING INSTALLATION
 - A. Install sheet flashings and preformed flashing accessories, and adhere to substrates according to roofing system manufacturer's written instructions.
 - B. Apply bonding adhesive to substrate and underside of sheet flashing at required rate, and allow to partially dry. Do not apply to seam area of flashing.
 - C. Flash penetrations and field-formed inside and outside corners with cured or uncured sheet flashing.
 - D. Clean seam areas, overlap, and firmly roll sheet flashings into the adhesive. Hot-air weld side and end laps to ensure a watertight seam installation.
 - E. Terminate and seal top of sheet flashings.
- 3.7 WALKWAY INSTALLATION
 - A. Flexible Walkways: Install walkway products in locations indicated. Adhere walkway products to substrate according to roofing system manufacturer's written instructions.
- 3.8 FIELD QUALITY CONTROL
 - A. Testing Agency: Engage a qualified testing agency to inspect substrate conditions, surface preparation, membrane application, flashings, protection, and drainage components, and to furnish reports to Architect.
 - B. Flood Testing: Flood test each roofing area for leaks, according to recommendations in ASTM D 5957, after completing roofing and flashing but before overlying construction is placed. Install temporary containment assemblies, plug or dam drains, and flood with water.
 - 1. Flood to an average depth of 2-1/2 inches with a minimum depth of 1 inch and not exceeding a depth of 4 inches. Maintain 2 inches of clearance from top of base flashing.
 - 2. Flood each area for 24 hours.
 - 3. After flood testing, repair leaks, repeat flood tests, and make further repairs until roofing and flashing installations are watertight.

- C. Final Roof Inspection: Arrange for roofing system manufacturer's technical personnel to inspect roofing installation on completion.
- D. Repair or remove and replace components of roofing system where inspections indicate that they do not comply with specified requirements.
- E. Additional testing and inspecting, at Contractor's expense, will be performed to determine if replaced or additional work complies with specified requirements.

3.9 PROTECTING AND CLEANING

- A. Protect roofing system from damage and wear during remainder of construction period. When remaining construction does not affect or endanger roofing, inspect roofing for deterioration and damage, describing its nature and extent in a written report, with copies to Architect and Owner.
- B. Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

END OF SECTION 075419

Addendum No. 2 SECTION 099113 - EXTERIOR PAINTING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes surface preparation and the application of paint systems on the following exterior substrates:
 - 1. Steel.
 - 2. Galvanized metal.
 - 3. Concrete masonry units.
 - 4. Exterior cement board.
- B. Related Requirements:
 - 1. Section 051200 "Structural Steel Framing" for shop priming of metal substrates with primers specified in this Section.
 - 2. Section 099123 "Interior Painting" for surface preparation and the application of paint systems on interior substrates.

1.3 DEFINITIONS

- A. Exterior: any surfaces exposed to weather on the exterior surface of the building or any interior surface within Apparatus Bay
- B. Gloss Level 1: Not more than 5 units at 60 degrees and 10 units at 85 degrees, according to ASTM D 523.
- C. Gloss Level 3: 10 to 25 units at 60 degrees and 10 to 35 units at 85 degrees, according to ASTM D 523.
- D. Gloss Level 4: 20 to 35 units at 60 degrees and not less than 35 units at 85 degrees, according to ASTM D 523.
- E. Gloss Level 5: 35 to 70 units at 60 degrees, according to ASTM D 523.
- F. Gloss Level 6: 70 to 85 units at 60 degrees, according to ASTM D 523.
- G. Gloss Level 7: More than 85 units at 60 degrees, according to ASTM D 523.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product. Include preparation requirements and application instructions.
- B. Samples for Verification:
 - 1. Sample for each color required.
- C. Product List: For each product indicated, include the following:
 - 1. Cross-reference to paint system and locations of application areas. Use same designations indicated on Drawings and in schedules.
 - 2. Printout of current "MPI Approved Products List" for each product category specified, with the proposed product highlighted.
 - 3. VOC content.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F.
 - 1. Maintain containers in clean condition, free of foreign materials and residue.
 - 2. Remove rags and waste from storage areas daily.

1.6 FIELD CONDITIONS

- A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 deg F.
- B. Do not apply paints in snow, rain, fog, or mist; when relative humidity exceeds 85 percent; at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide equivalent products by one of the following:
 - 1. Benjamin Moore & Co.
 - 2. Duron, Inc.
 - 3. ICI Paints.
 - 4. M.A.B. Paints
 - 5. PPG Architectural Finishes, Inc.
 - 6. Sherwin-Williams Company
 - 7. Vista Paint.

2.2 PAINT, GENERAL

- A. MPI Standards: Provide products that comply with MPI standards indicated and that are listed in its "MPI Approved Products List."
- B. Material Compatibility:
 - 1. Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
 - 2. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.
- C. VOC Content: Provide materials that comply with VOC limits of authorities having jurisdiction.
- D. Colors and Pattern: As selected by Architect from manufacturer's full range.

2.3 BLOCK FILLERS

- A. Block Filler, Latex, Interior/Exterior: MPI #4.
 - 1. Basis of Design: PrepRite Block Filler by Sherwin-Williams Company.
 - 2. VOC Content: E Range of E3.

2.4 METAL PRIMERS

- A. Alkyd, Anti-Corrosive Primer: MPI #79.
 - 1. Basis of Design: Kem-Bond HS by Sherwin-Williams Company.
 - 2. VOC Content: E Range of E2.
- B. Primer, Galvanized, Water Based: MPI #134.
 - 1. Basis of Design: Pro-Cryl Universal Primer by Sherwin-Williams Company.
 - 2. VOC Content: E Range of E2.

2.5 ALKYD BASED PAINTS

- A. Alkyd, Exterior Semi-Gloss (Gloss Level 5): MPI #94.
 - 1. Basis of Design: DTM by Sherwin-Williams Company.
 - 2. VOC Content: E Range of E1.

2.6 WATER-BASED PAINTS

- A. Latex, Exterior Semi-Gloss (Gloss Level 5): MPI #11.
 - 1. Basis of Design: Emerald or A100 series by Sherwin-Williams Company.
 - 2. VOC Content: E Range of E3.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
- B. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.
- C. Proceed with coating application only after unsatisfactory conditions have been corrected.
 - 1. Application of coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations in "MPI Manual" applicable to substrates and paint systems indicated.
- B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
 - 1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection.
- C. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.
 - 1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.
- D. Steel Substrates: Remove rust, loose mill scale, and shop primer if any. Clean using methods recommended in writing by paint manufacturer but not less than the following:
 - 1. SSPC-SP 2, "Hand Tool Cleaning."
- E. Shop-Primed Steel Substrates: Clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with the same material as used for shop priming to comply with SSPC-PA 1 for touching up shop-primed surfaces.

3.3 APPLICATION

- A. Apply paints according to manufacturer's written instructions and recommendations in "MPI Manual."
 - 1. Use applicators and techniques suited for paint and substrate indicated.
 - 2. Paint surfaces behind movable items same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed items with prime coat only.
 - 3. Paint both sides and edges of exterior doors and entire exposed surface of exterior door frames.

- 4. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
- 5. Primers specified in painting schedules may be omitted on items that are factory primed or factory finished if acceptable to topcoat manufacturers.
- B. Tint undercoats same color as topcoat but tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Provide sufficient difference in shade of undercoats to distinguish each separate coat.
- C. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.
- D. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.

3.4 FIELD QUALITY CONTROL

- A. Dry Film Thickness Testing: Owner may engage the services of a qualified testing and inspecting agency to inspect and test paint for dry film thickness.
 - 1. Contractor shall touch up and restore painted surfaces damaged by testing.
 - 2. If test results show that dry film thickness of applied paint does not comply with paint manufacturer's written recommendations, Contractor shall pay for testing and apply additional coats as needed to provide dry film thickness that complies with paint manufacturer's written recommendations.

3.5 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- B. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- C. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.
- D. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.6 EXTERIOR PAINTING SCHEDULE

- A. Steel Substrates:
 - 1. Alkyd System:
 - a. Prime Coat: Primer, alkyd, anticorrosive for metal, MPI #79.
 - b. Intermediate Coat: Exterior alkyd enamel matching topcoat.
 - c. Topcoat: Alkyd, exterior, semi-gloss (Gloss Level 5), MPI #94.

- B. Galvanized-Metal Substrates:
 - 1. Latex System:
 - a. Prime Coat: Primer, galvanized, water based, MPI #134.
 - b. Intermediate Coat: Latex, exterior, matching topcoat.
 - c. Topcoat: Latex, exterior semi-gloss (Gloss Level 5), MPI #11.
- C. Steel and Iron Substrates (Apparatus Bay):
 - 1. Water-Based Light Industrial Dry Fall System MPI EXT 5.1M:
 - a. Zinc-Rich Prime Coat: Primer, zinc rich, inorganic, MPI #19.
 - b. Intermediate Coat: Light industrial coating, exterior, water based, matching topcoat.

- D. CMU Substrates:
 - 1. Latex over Alkali-Resistant Primer System:
 - a. Block Filler: Latex, interior/exterior, MPI #4.
 - b. Intermediate Coat: Latex, exterior, matching topcoat.
 - c. Topcoat: Latex, exterior semi-gloss (Gloss Level 5), MPI #11.
- E. Exterior Synthetic Trim Board Substrates:
 - 1. Latex System:
 - a. Prime Coat: Latex, exterior, matching topcoat.
 - b. Intermediate Coat: Latex, exterior, matching topcoat.
 - c. Topcoat: Latex, exterior semi-gloss (Gloss Level 5), MPI #11.
- F. Cement Board Substrates:
 - 1. Latex System MPI EXT 3.3J:
 - a. Alkali-Resistant Prime Coat: Primer, alkali resistant, water based, MPI #3.
 - b. Intermediate Coat: Latex, exterior, matching topcoat.
 - c. Low-Sheen Topcoat: Latex, exterior, low sheen (MPI Gloss Level 3-4), MPI #15.

END OF SECTION 099113

Low-Sheen Topcoat: Light industrial coating, exterior, water based, semigloss (MPI Gloss Level 3-4), MPI #155.

Addendum No. 2 SECTION 099123 - INTERIOR PAINTING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes surface preparation and the application of paint systems on the following interior substrates:
 - 1. Concrete masonry units (CMU).
 - 2. Steel.
 - 3. Galvanized metal.
 - 4. Gypsum board.
- B. Related Requirements:
 - 1. Section 051200 "Structural Steel Framing" for shop priming of metal substrates with primers specified in this Section.
 - 2. Section 099113 "Exterior Painting" for surface preparation and the application of paint systems on exterior substrates.

1.3 DEFINITIONS

- A. Gloss Level 1: Not more than 5 units at 60 degrees and 10 units at 85 degrees, according to ASTM D 523.
- B. Gloss Level 2: Not more than 10 units at 60 degrees and 10 to 35 units at 85 degrees, according to ASTM D 523.
- C. Gloss Level 3: 10 to 25 units at 60 degrees and 10 to 35 units at 85 degrees, according to ASTM D 523.
- D. Gloss Level 4: 20 to 35 units at 60 degrees and not less than 35 units at 85 degrees, according to ASTM D 523.
- E. Gloss Level 5: 35 to 70 units at 60 degrees, according to ASTM D 523.
- F. Gloss Level 6: 70 to 85 units at 60 degrees, according to ASTM D 523.
- G. Gloss Level 7: More than 85 units at 60 degrees, according to ASTM D 523.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product. Include preparation requirements and application instructions.
 - 1. Cross-reference to paint system and locations of application areas. Use same designations indicated on Drawings and in schedules.
 - 2. Printout of current "MPI Approved Products List" for each product category specified in Part 2, with the proposed product highlighted.
 - 3. VOC content.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F.
 - 1. Maintain containers in clean condition, free of foreign materials and residue.
 - 2. Remove rags and waste from storage areas daily.

1.6 FIELD CONDITIONS

- A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 deg F.
- B. Do not apply paints when relative humidity exceeds 85 percent; at temperatures, less than 5 deg F above the dew point; or to damp or wet surfaces.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide equivalent products by one of the following:
 - 1. Benjamin Moore & Co.
 - 2. Duron, Inc.
 - 3. ICI Paints.
 - 4. M.A.B. Paints
 - 5. PPG Architectural Finishes, Inc.
 - 6. Sherwin-Williams Company
 - 7. Vista Paint.

2.2 PAINT, GENERAL

- A. MPI Standards: Provide products that comply with MPI standards indicated and that are listed in its "MPI Approved Products List."
- B. Material Compatibility:

- 1. Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
- 2. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.
- C. Low-Emitting Materials: For field applications that are inside the weatherproofing system, verify 90 percent of paints and coatings comply with the requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
- D. Colors: As selected by Architect from manufacturer's full range.

2.3 BLOCK FILLERS

- A. Block Filler, Latex, Interior/Exterior: MPI #4.
 - 1. Basis of Design: PrepRite Block Filler by Sherwin-Williams Company.
 - 2. VOC Content: E Range of E3.

2.4 PRIMERS/SEALERS

- A. Primer Sealer, Latex, Interior: MPI #50.
 - 1. Basis of Design: ProMar 200 Zero by Sherwin-Williams Company.
 - 2. VOC Content: E Range of E3.
- B. Primer, Alkali Resistant, Water Based: MPI #3.
 - 1. Basis of Design: Pro-Cryl Universal Primer by Sherwin-Williams Company.
 - 2. VOC Content: E Range of E2.
- C. Primer, Galvanized, Water Based: MPI #134.
 - 1. Basis of Design: PrepRite ProBlock by Sherwin-Williams Company.
 - 2. VOC Content: E Range of E3.

2.5 METAL PRIMERS

- A. Primer, Rust-Inhibitive, Water Based: MPI #107.
 - 1. Basis of Design: Pro-Cry Universal Primer by Sherwin-Williams Company.
 - 2. VOC Content: E Range of E2.

2.6 WATER-BASED PAINTS

- A. Latex, Interior, (Gloss Level 2): MPI #44.
 - 1. Basis of Design: ProMar 400 Zero by Sherwin-Williams Company.
 - 2. VOC Content: E Range of E3.
- B. Latex, Interior, Semi-Gloss, (Gloss Level 5): MPI #54.

INTERIOR PAINTING

- 1. Basis of Design: ProMar 400 by Sherwin-Williams Company.
- 2. VOC Content: E Range of E3.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
- B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
 - 1. Masonry (CMU): 12 percent.
 - 2. Gypsum Board: 12 percent.
- C. Gypsum Board Substrates: Verify that finishing compound is sanded smooth.
- D. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.
- E. Proceed with coating application only after unsatisfactory conditions have been corrected.
 - 1. Application of coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations in "MPI Manual" applicable to substrates indicated.
- B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
 - 1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.
- C. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.
 - 1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.
- D. Masonry Substrates: Remove efflorescence and chalk. Do not paint surfaces if moisture content or alkalinity of surfaces or mortar joints exceed that permitted in manufacturer's written instructions.
- E. Steel Substrates: Remove rust, loose mill scale, and shop primer, if any. Clean using methods recommended in writing by paint manufacturer but not less than the following:
 - 1. SSPC-SP 2, "Hand Tool Cleaning."

F. Shop-Primed Steel Substrates: Clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with the same material as used for shop priming to comply with SSPC-PA 1 for touching up shop-primed surfaces.

3.3 APPLICATION

- A. Apply paints according to manufacturer's written instructions and to recommendations in "MPI Manual."
 - 1. Use applicators and techniques suited for paint and substrate indicated.
 - 2. Paint surfaces behind movable equipment and furniture same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed equipment or furniture with prime coat only.
 - 3. Paint front and backsides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.
 - 4. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
 - 5. Primers specified in painting schedules may be omitted on items that are factory primed or factory finished if acceptable to topcoat manufacturers.
- B. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Tint undercoats to match color of topcoat but provide sufficient difference in shade of undercoats to distinguish each separate coat.
- C. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.
- D. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.
- E. Painting Fire Suppression, Plumbing, HVAC, Electrical, Communication, and Electronic Safety and Security Work:
 - 1. Paint the following work where exposed in equipment rooms:
 - a. Equipment, excluding panelboards and switch gear.
 - b. Uninsulated metal piping.
 - c. Uninsulated plastic piping.
 - d. Pipe hangers and supports.
 - e. Metal conduit.
 - f. Plastic conduit.
 - g. Tanks that do not have factory-applied final finishes.
 - h. Duct, equipment, and pipe insulation having paintable jacket material.
 - 2. Paint the following work where exposed in occupied spaces:
 - a. Equipment, excluding panelboards.
 - b. Uninsulated metal piping.
 - c. Uninsulated plastic piping.
 - d. Pipe hangers and supports.

- e. Metal conduit.
- f. Plastic conduit.
- g. Duct, equipment, and pipe insulation having paintable jacket material.
- 3. Paint portions of internal surfaces of metal ducts, without liner, behind air inlets and outlets that are visible from occupied spaces.

3.4 FIELD QUALITY CONTROL

- A. Dry Film Thickness Testing: Owner may engage the services of a qualified testing and inspecting agency to inspect and test paint for dry film thickness.
 - 1. Contractor shall touch up and restore painted surfaces damaged by testing.
 - 2. If test results show that dry film thickness of applied paint does not comply with paint manufacturer's written recommendations, Contractor shall pay for testing and apply additional coats as needed to provide dry film thickness that complies with paint manufacturer's written recommendations.

3.5 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- B. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- C. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.
- D. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.6 INTERIOR PAINTING SCHEDULE

- A. CMU Substrates:
 - 1. Latex System:
 - a. Block Filler: Block filler, latex, interior/exterior, MPI #4.
 - b. Intermediate Coat: Latex, interior, matching topcoat.
 - c. Topcoat: Latex, interior, semi-gloss, (Gloss Level 5), MPI #54.
- B. Steel Substrates:
 - 1. Latex over Primer System:
 - a. Prime Coat: Rust-Inhibitive, Water Based: MPI #107.
 - b. Intermediate Coat: Latex, interior, matching topcoat.
 - c. Topcoat: Latex, interior, semi-gloss, (Gloss Level 5), MPI #54.
- C. Galvanized-Metal Substrates:

- 1. Latex over Waterborne Primer System:
 - a. Prime Coat: Primer, galvanized, water based, MPI #134.
 - b. Intermediate Coat: Latex, interior, matching topcoat.
 - c. Topcoat: Latex, interior, semi-gloss, (Gloss Level 5), MPI #54.
- D. Steel and Iron Substrates (Apparatus Bay):
 - 1. Water-Based Light Industrial Dry Fall System MPI EXT 5.1M:
 - a. Zinc-Rich Prime Coat: Primer, zinc rich, inorganic, MPI #19.
 - Intermediate Coat: Light industrial coating, exterior, water based, matching topcoat.
 Low-Sheen Topcoat: Light industrial coating, exterior, water based, semigloss (MPI Gloss Level 3-4), MPI #155.
- E. Gypsum Board Substrates Gloss Level 2:
 - 1. Latex System:
 - a. Prime Coat: Primer sealer, latex, interior, MPI #50.
 - b. Intermediate Coat: Latex, interior, matching topcoat.
 - c. Topcoat: Latex, interior, (Gloss Level 2), MPI #44.
- F. Gypsum Board Substrates Gloss Level 5:
 - 1. Latex System:
 - a. Prime Coat: Primer sealer, latex, interior, MPI #50.
 - b. Intermediate Coat: Latex, interior, matching topcoat.
 - c. Topcoat: Latex, interior, semi-gloss, (Gloss Level 5), MPI #54.

END OF SECTION 099123

Addendum No. 2 SECTION 105113 - METAL LOCKERS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- 1.2 SUMMARY
 - A. Section Includes:
 - 1. Knocked-down lockers.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of metal locker.
 - 1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of metal locker and bench.
- B. Shop Drawings.
 - 1. Include plans, elevations, sections, details, and attachments to other work.
 - 2. Show locker trim and accessories.
 - 3. Include locker identification system and numbering sequence.

1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Sample Warranty: For special warranty.
- 1.5 CLOSEOUT SUBMITTALS
 - A. Maintenance Data: For adjusting, repairing, and replacing locker doors and latching mechanisms to include in maintenance manuals.
- 1.6 DELIVERY, STORAGE, AND HANDLING
 - A. Do not deliver metal lockers until spaces to receive them are clean, dry, and ready for their installation.
- 1.7 FIELD CONDITIONS
 - A. Field Measurements: Verify actual dimensions of recessed openings by field measurements before fabrication.

1.8 COORDINATION

A. Coordinate sizes and locations of framing, blocking, furring, reinforcements, and other related units of work specified in other Sections to ensure that metal lockers can be supported and installed as indicated.

1.9 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of metal lockers that fail in materials or workmanship, excluding finish, within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Structural failures.
 - b. Faulty operation of latches and other door hardware.
 - 2. Damage from deliberate destruction and vandalism is excluded.
 - 3. Warranty Period for Knocked-Down Metal Lockers: Two years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 LOCKER MANUFACTURERS

- A. Source Limitations: Obtain metal lockers, and accessories from single source from single locker manufacturer.
- 2.2 PERFORMANCE REQUIREMENTS
 - A. Accessibility Requirements: For lockers indicated to be accessible, comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines and ICC A117.1.
- 2.3 KNOCKED-DOWN LOCKERS
 - A. Basis-of-Design Product: Subject to compliance with requirements, provide Art Metal Products; Heavy Duty Ventilated (HDV), Double Tier or comparable product by one of the following:
 - 1. Art Metal Products.
 - 2. ASI Storage Solutions Inc.
 - 3. DeBourgh Mfg. Co.
 - 4. General Storage Systems Ltd.
 - 5. Hadrian Manufacturing Inc.
 - 6. List Industries Inc.
 - 7. Lyon Workspace Products, LLC.
 - 8. Olympus Lockers & Storage Products, Inc.
 - 9. Penco Products, Inc
 - 10. Republic Storage Systems Company.
 - 11. Shanahan's Limited.
 - B. Size: 12" wide x 18" deep x 72" tall

- C. Doors: One piece; fabricated from 0.060-inch nominal-thickness steel sheet; formed into channel shape with double bend at vertical edges and with right-angle single bend at horizontal edges.
 - 1. Reinforcement: Manufacturer's standard reinforcing angles, channels, or stiffeners for doors more than 15 inches wide; welded to inner face of doors.
 - 2. Stiffeners: Manufacturer's standard full-height stiffener fabricated from 0.048-inch nominal-thickness steel sheet; welded to inner face of doors.
 - 3. Sound Dampening Panels: Manufacturer's standard, designed to stiffen doors and reduce sound levels when doors are closed, of die formed metal with full perimeter flange and sound-dampening material; welded to inner face of doors.
 - 4. Door Style: Vented panel as follows:
 - a. Diamond perforated.
- D. Body: Assembled by riveting or bolting body components together. Fabricate from unperforated steel sheet with thicknesses as follows:
 - 1. Tops, Bottoms, and Intermediate Dividers: 0.024-inch nominal thickness, with single bend at sides.
 - 2. Backs and Sides: 0.024-inch nominal thickness, with full-height, double-flanged connections.
 - 3. Shelves: 0.024-inchnominal thickness, with double bend at front and single bend at sides and back.
- E. Frames: Channel formed; fabricated from 0.060-inch nominal-thickness steel sheet; lapped and factory welded at corners; with top and bottom main frames factory welded into vertical main frames. Form continuous, integral, full-height door strikes on vertical main frames.
- F. Hinges: Welded to door and attached to door frame with no fewer than two factory-installed rivets per hinge that are completely concealed and tamper resistant when door is closed; fabricated to swing 180 degrees.
 - 1. Knuckle Hinges: Steel, full loop, five or seven knuckles, tight pin; minimum 2 inches high. Provide no fewer than three hinges for each door more than 42 inches high.
- G. Recessed Door Handle and Latch: Finger-lift latch control designed for use with either built-in combination locks or padlocks; positive automatic latching, chromium plated; pry and vandal resistant.
 - 1. Latch Hooks: Equip doors 48 inches and higher with three latch hooks and doors less than 48 inches high with two latch hooks; fabricated from 0.105-inch nominal-thickness steel sheet; welded or riveted to full-height door strikes; with resilient silencer on each latch hook.
 - 2. Latching Mechanism: Manufacturer's standard, rattle-free latching mechanism and moving components isolated to prevent metal-to-metal contact, and incorporating a prelocking device that allows locker door to be locked while door is open and then closed without unlocking or damaging lock or latching mechanism.
- H. Identification Plates: Manufacturer's standard, etched, embossed, or stamped aluminum plates, with numbers and letters at least 3/8 inch high.

- I. Hooks: Manufacturer's standard ball-pointed type hooks, aluminum or steel; zinc plated.
- J. Continuous Zee Base: Fabricated from 0.060-inch nominal-thickness steel sheet.
 - 1. Height: 4 inches.
- K. Filler Panels: Fabricated from manufacturer's standard thickness, but not less than 0.036-inch nominal-thickness steel sheet.
- L. Materials:
 - 1. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, Commercial Steel (CS), Type B, suitable for exposed applications.
- M. Finish: Baked enamel or powder coat.
 - 1. Color: As selected by Architect from manufacturer's full range.

2.4 LOCKS

- A. Combination Padlocks: Provided by Owner.
- 2.5 LOCKER FABRICATION
 - A. Fabricate metal lockers square, rigid, without warp, and with metal faces flat and free of dents or distortion. Make exposed metal edges safe to touch and free of sharp edges and burrs.
 - 1. Form body panels, doors, shelves, and accessories from one-piece steel sheet unless otherwise indicated.
 - 2. Provide fasteners, filler plates, supports, clips, and closures as required for complete installation.
 - B. Fabricate each metal locker with an individual door and frame; individual top, bottom, and back; and common intermediate uprights separating compartments. Factory weld frame members of each metal locker together to form a rigid, one-piece assembly.
 - C. Equipment: Provide each locker with an identification plate and the following equipment:
 - 1. One double-prong ceiling hook and two single-prong wall hooks.
 - D. Knocked-Down Construction: Fabricate metal lockers using nuts, bolts, screws, or rivets for nominal assembly at Project site.
 - E. Accessible Lockers: Fabricate as follows:
 - 1. Locate bottom shelf no lower than 15 inches above the floor.
 - 2. Where hooks, coat rods, or additional shelves are provided, locate no higher than 48 inches above the floor.
 - F. Continuous Base: Fabricated in lengths as long as practical to enclose base and base ends; finished to match lockers.

G. Filler Panels: Fabricated in an unequal leg angle shape; finished to match lockers. Provide slipjoint filler angle formed to receive filler panel.

2.6 LOCKER ACCESSORIES

- A. Fasteners: Zinc- or nickel-plated steel, slotless-type, exposed bolt heads; with self-locking nuts or lock washers for nuts on moving parts.
- B. Anchors: Material, type, and size required for secure anchorage to each substrate.
 - 1. Provide toothed-steel or lead expansion sleeves for drilled-in-place anchors.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine walls, floors, and support bases, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 LOCKER INSTALLATION

- A. General: Install lockers level, plumb, and true; shim as required, using concealed shims.
 - 1. Anchor locker runs at ends and at intervals recommended by manufacturer, but not more than 36 inches o.c. Using concealed fasteners, install anchors through backup reinforcing plates, channels, or blocking as required to prevent metal distortion.
 - 2. Anchor single rows of metal lockers to walls near top.
- B. Knocked-Down Lockers: Assemble with standard fasteners, with no exposed fasteners on door faces or face frames.
- C. Equipment:
 - 1. Attach hooks with at least two fasteners.
 - 2. Attach door locks on doors using security-type fasteners.
 - 3. Identification Plates: Identify metal lockers with identification indicated on Drawings.
 - a. Attach plates to each locker door, near top, centered, with at least two aluminum rivets.
 - b. Attach plates to upper shelf of each open-front metal locker, centered, with a least two aluminum rivets.
- D. Trim: Fit exposed connections of trim, fillers, and closures accurately together to form tight, hairline joints, with concealed fasteners and splice plates.
 - 1. Attach recess trim to recessed metal lockers with concealed clips.

METAL LOCKERS

2. Attach filler panels with concealed fasteners. Locate filler panels where indicated on Drawings.

3.3 LOCKER ADJUSTING

- A. Clean, lubricate, and adjust hardware. Adjust doors and latches to operate easily without binding.
- 3.4 **PROTECTION**
 - A. Protect metal lockers and benches from damage, abuse, dust, dirt, stain, or paint. Do not permit use during construction.
 - B. Touch up marred finishes, or replace metal lockers or benches that cannot be restored to factory-finished appearance. Use only materials and procedures recommended or furnished by manufacturer.

END OF SECTION 105113

Addendum No. 2

SECTION 263213 - DIESEL ENGINE GENERATORS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes packaged diesel engine generators for emergency use with the following features:
 - 1. Diesel engine.
 - 2. Diesel fuel-oil system.
 - 3. Control and monitoring.
 - 4. Generator overcurrent and fault protection.
 - 5. Generator, exciter, and voltage regulator.
 - 6. Outdoor engine generator enclosure and access stairs and platforms, if required.
 - 7. Vibration isolation devices.
 - 8. Finishes.
- B. Related Requirements:
 - 1. Section 263600 "Transfer Switches" for transfer switches, including sensors and relays to initiate automatic-starting and -stopping signals for engine generators.

1.2 DEFINITIONS

- A. Operational Bandwidth: The total variation, from the lowest to highest value of a parameter over the range of conditions indicated, expressed as a percentage of the nominal value of the parameter.
- B. EPS: Emergency power supply.
- C. EPSS: Emergency power supply system.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include rated capacities, operating characteristics, electrical characteristics, and furnished specialties and accessories.
 - 2. Include thermal damage curve for generator.
 - 3. Include time-current characteristic curves for generator protective device.
 - 4. Include fuel consumption in gallons per hour at 0.8 power factor at 0.5, 0.75, and 1.0 times generator capacity.
 - 5. Include generator efficiency at 0.8 power factor at 0.5, 0.75, and 1.0 times generator capacity.
 - 6. Include airflow requirements for cooling and combustion air in cubic feet per minute at 0.8 power factor, with air-supply temperature of 95, 80, 70, and 50 deg F. Provide Drawings indicating requirements and limitations for location of air intake and exhausts.

- 7. Include generator characteristics, including, but not limited to, kilowatt rating, efficiency, reactances, and short-circuit current capability.
- B. Shop Drawings:
 - 1. Include dimensioned plans and elevations for engine generator and other components specified. Indicate access requirements affected by height of subbase fuel tank.
 - 2. Include details of equipment assemblies. Indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.
 - 3. Identify fluid drain ports and clearance requirements for proper fluid drain.
 - 4. Design calculations for selecting vibration isolators and seismic restraints and for designing vibration isolation bases.
 - 5. Vibration Isolation Base Details: Detail fabrication, including anchorages and attachments to structure and supported equipment. Include base weights.
 - 6. Include diagrams for power, signal, and control wiring. Complete schematic, wiring, and interconnection diagrams showing terminal markings for equipment and functional relationship between all electrical components.
 - 7. Sizing report indicating generator and alternator starting KVA and running KW sizing for simultaneous starting and continuous operation of all loads indicated in the "Load Summary Generator" and generator panel schedule(s) on the Drawings and showing compliance with requirements of this specification. See Para. 2.3 E.

1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For manufacturer.
- B. Seismic Qualification Data: Certificates for engine generator, accessories, and components, from manufacturer.
 - 1. Basis for Certification: Indicate whether withstand certification is based on actual test of assembled components or on calculation.
 - 2. Dimensioned Outline Drawings of Equipment Unit: With engine and generator mounted on rails, identify center of gravity and total weight, including full fuel tank, supplied enclosure, external silencer, subbase-mounted fuel tank, and each piece of equipment not integral to the engine generator, and locate and describe mounting and anchorage provisions.
 - 3. Detailed description of equipment anchorage devices on which the certification is based and their installation requirements.
- C. Source Quality-Control Reports: Including, but not limited to, the following:
 - 1. Certified Summary of Performance Tests: Certify compliance with specified requirement to meet performance criteria for sensitive loads.
 - 2. Report of factory test on units to be shipped for this Project, showing evidence of compliance with specified requirements.
 - 3. Report of sound generation.
 - 4. Report of exhaust emissions showing compliance with applicable regulations.
 - 5. Certified Torsional Vibration Compatibility: Comply with NFPA 110.

- D. Field quality-control reports.
- E. Warranty: For special warranty.
- 1.5 CLOSEOUT SUBMITTALS
 - A. Operation and Maintenance Data: For engine generators to include in emergency, operation, and maintenance manuals.
 - 1. In addition to items specified in Section 017823 "Operation and Maintenance Data," include the following:
 - a. List of tools and replacement items recommended to be stored at Project for ready access. Include part and drawing numbers, current unit prices, and source of supply.
 - b. Operating instructions laminated and mounted adjacent to generator location.
 - c. Training plan.
 - d. Provide three (3) bound copies, or as agreed to by Architect/Engineer.

1.6 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Fuses: One for every 10 of each type and rating, but no fewer than one of each.
 - 2. Indicator Lamps: Two for every six of each type used, but no fewer than two of each.
 - 3. Filters: One set each of lubricating oil, fuel, and combustion-air filters.
 - 4. Tools: Each tool listed by part number in operations and maintenance manual.

1.7 QUALITY ASSURANCE

- A. Installer Qualifications: An authorized representative who is trained and approved by manufacturer.
 - 1. Maintenance Proximity: Not more than four hours' normal travel time from Installer's place of business to Project site.
 - 2. Engineering Responsibility: Preparation of data for vibration isolators and seismic restraints of engine skid mounts, including Shop Drawings, based on testing and engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this Project.
- B. Manufacturer Qualifications: A qualified manufacturer. Maintain, within 200 miles (321 km) of Project site, a service center capable of providing training, parts, and emergency maintenance repairs.
- C. Source Limitations: Obtain packaged generator sets and auxiliary components through one source from a single manufacturer.
- D. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

1.8 WARRANTY

- A. Manufacturer's Warranty: Manufacturer agrees to repair or replace components of packaged engine generators and associated auxiliary components that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: 5 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. <u>Manufacturers:</u> Subject to compliance with requirements, provide products by one of the following:
 - 1. <u>Caterpillar, Inc.; Electric Power Division</u>.
 - 2. <u>Cummins Power Generation</u>.
 - 3. <u>MTU Onsite Energy Corporation</u>.
 - 4. Or approved equal
- B. Source Limitations: Obtain packaged engine generators and auxiliary components from single source from single manufacturer.
- 2.2 PERFORMANCE REQUIREMENTS
 - A. NFPA Compliance:
 - 1. Comply with NFPA 37.
 - 2. Comply with NFPA 70.
 - 3. Comply with NFPA 110 Level 1 EPSS
 - B. UL Compliance: Comply with UL 2200.
 - C. Engine Exhaust Emissions: Comply with EPA requirements and applicable state and local government requirements.
 - D. Environmental Conditions: Engine generator system shall withstand the following environmental conditions without mechanical or electrical damage or degradation of performance capability:
 - 1. Ambient Temperature: 5 to 104 deg F.
 - 2. Relative Humidity: Zero to 100 percent.
 - 3. Altitude: Sea level to 1000 feet.

2.3 ENGINE GENERATOR ASSEMBLY DESCRIPTION

- A. Factory-assembled and -tested, water-cooled engine, with brushless generator and accessories.
- B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

- C. Overload Capacity: 110 percent of service load for 1 hour in 12 consecutive hours.
- D. Load Factor: 85 percent of service load in an average of 24 hours.
- E. Service Load: kVA or KW as indicated on the drawings. Note the size stated on the Drawings is estimated. The Contractor shall provide an engine-generator set capable of simultaneous starting and continuous operation without set overload, including no greater than a twenty (20) percent voltage dip for all generator loads except the fire pump and no greater than a fifteen (15) percent voltage dip for fire pump operation, of the loads shown in the panel schedules on the Drawings.
- F. Power Factor: 0.8, lagging.
- G. Frequency: 60 Hz
- H. Voltage: 208/120 V ac.
- I. Phase: Three-phase, four-wire wye.
- J. Induction Method: Turbocharged or naturally aspirated.
- K. Governor: Adjustable isochronous, with speed sensing.
- L. Mounting Frame: Structural steel framework to maintain alignment of mounted components without depending on concrete foundation. Provide lifting attachments sized and spaced to prevent deflection of base during lifting and moving.
 - 1. Rigging Diagram: Inscribed on metal plate permanently attached to mounting frame to indicate location and lifting capacity of each lifting attachment and engine generator center of gravity.
- M. Capacities and Characteristics:
 - 1. Power Output Ratings: Nominal ratings as indicated at 0.8 power factor excluding power required for the continued and repeated operation of the unit and auxiliaries.
 - 2. Nameplates: For each major system component to identify manufacturer's name and address, and model and serial number of component.
- N. Engine Generator Performance:
 - 1. Steady-State Voltage Operational Bandwidth: 3 percent of rated output voltage, from no load to full load.
 - 2. Transient Voltage Performance: Not more than 20 percent variation for 50 percent stepload increase or decrease. Voltage shall recover and remain within the steady-state operating band within three seconds.
 - 3. Steady-State Frequency Operational Bandwidth: 0.5 percent of rated frequency, from no load to full load.
 - 4. Steady-State Frequency Stability: When system is operating at any constant load within the rated load, there shall be no random speed variations outside the steady-state operational band and no hunting or surging of speed.

- 5. Transient Frequency Performance: Less than 5 percent variation for 50 percent step-load increase or decrease. Frequency shall recover and remain within the steady-state operating band within five seconds.
- 6. Output Waveform: At no load, harmonic content measured line to line or line to neutral shall not exceed 5 percent total and 3 percent for single harmonics. Telephone influence factor, determined according to NEMA MG 1, shall not exceed 50 percent.
- 7. Sustained Short-Circuit Current: For a three-phase, bolted short circuit at system output terminals, system shall supply a minimum of 250 percent of rated full-load current for not less than 10 seconds and then clear the fault automatically, without damage to generator system components.
- 8. Start Time: Comply with NFPA 110, Type 10 system requirements.
- 9. Start Time: 10 seconds.

2.4 DIESEL ENGINE

- A. Fuel: ASTM D 975 diesel fuel oil, Grade 2-D S15.
- B. Rated Engine Speed: 1800 rpm.
- C. Lubrication System: Engine or skid mounted.
 - 1. Filter and Strainer: Rated to remove 90 percent of particles 5 micrometers and smaller while passing full flow.
 - 2. Thermostatic Control Valve: Control flow in system to maintain optimum oil temperature. Unit shall be capable of full flow and is designed to be fail-safe.
 - 3. Crankcase Drain: Arranged for complete gravity drainage to an easily removable container with no disassembly and without use of pumps, siphons, special tools, or appliances.
- D. Jacket Coolant Heater: Electric-immersion type, factory installed in coolant jacket system.
- E. Cooling System: Closed loop, liquid cooled, with radiator factory mounted on engine generator mounting frame and integral engine-driven coolant pump.
 - 1. Coolant: Solution of 50 percent ethylene-glycol-based antifreeze and 50 percent water, with anticorrosion additives as recommended by engine manufacturer.
 - 2. Size of Radiator: Adequate to contain expansion of total system coolant, from cold start to 110 percent load condition.
 - 3. Expansion Tank: Constructed of welded steel plate and rated to withstand maximum closed-loop coolant-system pressure for engine used. Equip with gage glass and petcock.
 - 4. Temperature Control: Self-contained, thermostatic-control valve modulates coolant flow automatically to maintain optimum constant coolant temperature as recommended by engine manufacturer.
 - 5. Coolant Hose: Flexible assembly with inside surface of nonporous rubber and outer covering of aging-, UV-, and abrasion-resistant fabric.
 - a. Rating: 50-psig maximum working pressure with coolant at 220 deg F, and noncollapsible under vacuum.
 - b. End Fittings: Flanges or steel pipe nipples with clamps to suit piping and equipment connections.

- F. Muffler/Silencer: Critical type, sized as recommended by engine manufacturer and selected with exhaust piping system to not exceed engine manufacturer's engine backpressure requirements.
 - 1. Minimum sound attenuation of 25 dB at 500 Hz.
 - 2. Sound level measured at a distance of 23 feet from exhaust discharge after installation is complete shall be 78 dBA or less.
 - 3. Muffler/Silencer and all exhaust piping and all exhaust components must be 304 stainless steel.
- G. Air-Intake Filter: Heavy-duty, engine-mounted air cleaner with replaceable dry-filter element and "blocked filter" indicator.
- H. Starting System: 24 V electric, with negative ground.
 - 1. Components: Sized so they are not damaged during a full engine-cranking cycle, with ambient temperature at maximum specified in "Performance Requirements" Article.
 - 2. Cranking Motor: Heavy-duty unit that automatically engages and releases from engine flywheel without binding.
 - 3. Cranking Cycle: As required by NFPA 110 for system level specified.
 - 4. Battery: Adequate capacity within ambient temperature range of project to provide specified cranking cycle at least twice without recharging.
 - 5. Battery Cable: Size as recommended by engine manufacturer for cable length indicated. Include required interconnecting conductors and connection accessories.
 - 6. Battery-Charging Alternator: Factory mounted on engine with solid-state voltage regulation and 35-A minimum continuous rating.
 - 7. Battery Charger: Current-limiting, automatic-equalizing, temperature compensating and float-. Unit shall comply with UL 1236 and include the following features:
 - a. Operation: Equalizing-charging rate of 10 A shall be initiated automatically after battery has lost charge until an adjustable equalizing voltage is achieved at battery terminals. Unit shall then be automatically switched to a lower float-charging mode and shall continue to operate in that mode until battery is discharged again.
 - b. Automatic Temperature Compensation: Adjust float and equalize voltages for variations in ambient temperature from minus 40 deg F to 140 deg F to prevent overcharging at high temperatures and undercharging at low temperatures, remote temperature sensor shall be located within 12" of top of battery.
 - c. Automatic Voltage Regulation: Maintain constant output voltage regardless of input voltage variations up to plus or minus 10 percent.
 - d. Ammeter and Voltmeter: Flush mounted in door. Meters shall indicate charging rates.
 - e. Safety Functions: Sense abnormally low battery voltage and close contacts providing low battery voltage indication on control and monitoring panel. Sense high battery voltage and loss of ac input or dc output of battery charger. Either condition shall close contacts that provide a battery-charger malfunction indication at system control and monitoring panel.
 - f. Enclosure and Mounting: NEMA 250, Type 1 wall-mounted cabinet.

2.5 DIESEL FUEL-OIL SYSTEM

- A. Comply with NFPA 37.
- B. Piping: Fuel-oil piping shall be Schedule 40 black steel. Cast iron, aluminum, copper, and galvanized steel shall not be used in the fuel-oil system.
- C. Main Fuel Pump: Mounted on engine to provide primary fuel flow under starting and load conditions.
- D. Fuel Filtering: Remove water and contaminants larger than 1 micron.
- E. Relief-Bypass Valve: Automatically regulates pressure in fuel line and returns excess fuel to source.
- F. Subbase-Mounted, 304 Stainless Steel, Double-Wall, Fuel-Oil Tank: Factory installed and piped, complying with UL 142 fuel-oil tank. Features include the following:
 - 1. Tank level indicator.
 - 2. Fuel-Tank Capacity: Minimum 750 gallons.
 - 3. Leak detection in interstitial space.
 - 4. Vandal-resistant fill cap.
 - 5. Containment Provisions: Comply with requirements of authorities having jurisdiction.
 - 6. Fuel tank construction must be 304 Stainless Steel with stainless steel hardware and supports.

2.6 CONTROL AND MONITORING

- A. Automatic-Starting System Sequence of Operation: When mode-selector switch on the control and monitoring panel is in the automatic position, remote-control contacts in one or more separate automatic transfer switches initiate starting and stopping of engine generator. When mode-selector switch is switched to the on position, engine generator starts. The off position of same switch initiates engine generator shutdown. When engine generator is running, specified system or equipment failures or derangements automatically shut down engine generator and initiate alarms. Operation of a remote emergency-stop switch also shuts down generator set.
- B. Comply with NEC 700.10:
 - 1. Engine start control and monitoring shall provide continuous monitoring of the entire remote start circuit.
 - 2. Visual and audible annunciation of generator malfunction shall be initiated if the integrity of the start circuit is compromised.
 - 3. There shall be minimum time delay (less than 5 seconds) in annunciation of any compromised condition such as an open or short circuit.
 - 4. A system which annunciates compromised conditions only after a generator start signal is initiated via a redundant path does not meet the intent of this specification.
- C. Manual-Starting System Sequence of Operation: Switching on-off switch on the generator control panel to the on position starts engine generator. The off position of same switch initiates engine generator shutdown. When engine generator is running, specified system or equipment failures or derangements automatically shut down engine generator and initiate alarms. . Operation of a remote emergency-stop switch also shuts down generator set.

- D. Provide minimum run time control set for 15 minutes (30 minutes for NFPA 110 compliance), with override only by operation of a remote emergency-stop switch.
- E. Comply with UL 508A.
- F. Configuration: Operating and safety indications, protective devices, basic system controls, and engine gages shall be grouped in a common control and monitoring panel mounted on the engine generator. Mounting method shall isolate the control panel from engine generator vibration. Panel shall be powered from the engine generator battery.
- G. Control and Monitoring Panel:
 - 1. Digital controller with integrated LCD display, controls, and microprocessor, capable of local and remote control, monitoring, and programming, with battery backup.
 - 2. Instruments Display: Located on the control and monitoring panel and viewable during operation.
 - a. Engine lubricating-oil pressure gage.
 - b. Engine-coolant temperature gage.
 - c. DC voltmeter (alternator battery charging).
 - d. Running-time meter.
 - e. AC voltmeter, for each phase.
 - f. AC ammeter, for each phase.
 - g. AC frequency meter.
 - h. Generator-voltage-adjusting rheostat.
 - 3. Controls and Protective Devices: Controls, shutdown devices, and common visual alarm indication as required by NFPA 110, including the following:
 - a. Cranking control equipment.
 - b. Run-Off-Auto switch.
 - c. Control switch not in automatic position alarm.
 - d. Overcrank alarm.
 - e. Overcrank shutdown device.
 - f. Low water temperature alarm.
 - g. High engine temperature pre-alarm.
 - h. High engine temperature.
 - i. High engine temperature shutdown device.
 - j. Overspeed alarm.
 - k. Overspeed shutdown device.
 - l. Low-fuel main tank.
 - 1) Low-fuel-level alarm shall be initiated when the level falls below that required for operation for the duration required.
 - m. Coolant low-level alarm.
 - n. Load indicator.
 - o. Battery high-voltage alarm.
 - p. Low-cranking voltage alarm.
 - q. Battery-charger malfunction alarm.
 - r. Battery low-voltage alarm.

- s. Lamp test.
- t. Contacts for local and remote common alarm.
- H. Connection to Datalink:
 - 1. A separate terminal block, factory wired Form C dry contacts, for each alarm and status indication.
 - 2. Provide connections for datalink transmission of indications to remote data terminals via Ethernet.
- I. Common Remote Panel with Common Audible Alarm: Comply with NFPA 110 requirements for Level 1 systems. Include necessary contacts and terminals in control and monitoring panel. Remote panel shall be powered from the engine generator battery.
- J. Supporting Items: Include sensors, transducers, terminals, relays, and other devices and include wiring required to support specified items. Locate sensors and other supporting items on engine or generator unless otherwise indicated.
- K. Remote Emergency-Stop Switch: Flush; wall mounted, unless otherwise indicated; and labeled. Push button shall be protected from accidental operation.

2.7 GENERATOR OVERCURRENT AND FAULT PROTECTION

- A. Overcurrent protective devices shall be coordinated to optimize selective tripping when a short circuit occurs. Coordination of protective devices shall consider both utility and generator as the voltage source.
- B. Generator Circuit Breakers: Molded-case, LSI electronic-trip type; 100 percent rated; complying with UL 489, each circuit breaker in a separate enclosure. Controller based breaker control shall not be permitted.
 - 1. Tripping Characteristics: Adjustable long-time and short-time delay and instantaneous.
 - 2. Trip Settings: Selected to coordinate with generator thermal damage curve.
 - 3. Shunt Trip: Connected to trip breaker when engine generator is shut down by other protective devices.
 - 4. Mounting: Adjacent to or integrated with control and monitoring panel.
- C. Load Bank Circuit Breaker: Provide a second circuit breaker meeting above requirements and size that will be utilized for load testing the generator with portable load bank. Load bank circuit breaker shall be provided with 4/0 AWG type PPE cable sufficient for breaker load and female CAM-LOK devices with protective caps. Cable shall be of sufficient length to mount strain relief and entire CAM-LOK device outside breaker enclosure to allow connection of Male CAM-LOK.
- D. Ground-Fault Indication: Comply with NFPA 70, "Emergency System" signals for ground fault.
 - 1. Indicate ground fault with other engine generator alarm indications.
 - 2. Trip generator protective device on ground fault.

NORTH TOPSAIL BEACH FIRE STATION #2

2.8 GENERATOR, EXCITER, AND VOLTAGE REGULATOR

- A. Comply with NEMA MG 1.
- B. Drive: Generator shaft shall be directly connected to engine shaft. Exciter shall be rotated integrally with generator rotor.
- C. Electrical Insulation: Class H or Class F.
- D. Stator-Winding Leads: Brought out to terminal box to permit future reconnection for other voltages if required. Provide 12-lead alternator.
- E. Construction shall prevent mechanical, electrical, and thermal damage due to vibration, overspeed up to 125 percent of rating, and heat during operation at 110 percent of rated capacity.
- F. Enclosure: Dripproof.
- G. Instrument Transformers: Mounted within generator enclosure.
- H. Voltage Regulator: Solid-state type, separate from exciter, providing performance as specified and as required by NFPA 110.
 - 1. Adjusting Rheostat on Control and Monitoring Panel: Provide plus or minus 5 percent adjustment of output-voltage operating band.
- I. Strip Heater: Thermostatically controlled unit arranged to maintain stator windings above dew point.
- J. Windings: Two-thirds pitch stator winding and fully linked amortisseur winding.
- K. Subtransient Reactance: 12 percent, maximum.

2.9 OUTDOOR ENGINE GENERATOR ENCLOSURE

- A. Description: Vandal-resistant, sound-attenuating, weatherproof aluminum 304-stainless steel housing, wind resistant up to 150 mph. Multiple panels shall be lockable and provide adequate access to components requiring maintenance. Panels shall be removable by one person without tools. Instruments and control shall be mounted within enclosure.
- B. Sound Level: The enclosure shall meet 75 dBA at 23 feet.
- C. Thermal Insulation: Manufacturer's standard materials and thickness selected maintain winter interior temperature within operating limits required by engine generator components.
- D. Engine-Cooling Airflow through Enclosure: Maintain temperature rise of system components within required limits when unit operates at 110 percent of rated load for two hours with ambient temperature at top of range specified in system service conditions.
 - 1. Louvers: Fixed-engine, cooling-air inlet and discharge. Storm-proof and drainable louvers prevent entry of rain and snow.

- E. Interior Lights with Switch: Provide weather-resistant DC & AC powered LED lighting with 30-fc (330-lx) average maintained. They shall be Factory-wired, vapor-proof luminaires within housing; arranged to illuminate controls and accessible interior. Arrange for external electrical connection.
 - 1. AC lighting system and connection point for operation when remote source is available.
 - 2. DC lighting system for operation when remote source and generator are both unavailable.

2.10 VIBRATION ISOLATION DEVICES

- A. Elastomeric Isolator Pads: Oil- and water-resistant elastomer or natural rubber, arranged in single or multiple layers, molded with a nonslip pattern and 304 stainless-steel baseplates of sufficient stiffness for uniform loading over pad area, and factory cut to sizes that match requirements of supported equipment.
 - 1. Material: Neoprene separated by 304 stainless steel shims.
 - 2. Minimum Deflection: 1", verify with structural or seismic engineer.
- B. Vibration isolation devices shall not be used to accommodate misalignments or to make bends.

2.11 FINISHES

- A. Indoor and Outdoor Enclosures and Components: Manufacturer's standard finish over corrosion-resistant pretreatment and compatible primer.
- 2.12 SOURCE QUALITY CONTROL
 - A. Prototype Testing: Factory test engine generator using same engine model, constructed of identical or equivalent components and equipped with identical or equivalent accessories.
 - 1. Tests: Comply with NFPA 110, Level 1 Energy Converters and with IEEE 115.
 - B. Project-Specific Equipment Tests: Before shipment, factory test engine generator and other system components and accessories manufactured specifically for this Project. Perform tests at rated load and power factor. Include the following tests:
 - 1. Test components and accessories furnished with installed unit that are not identical to those on tested prototype to demonstrate compatibility and reliability.
 - 2. Test generator, exciter, and voltage regulator as a unit.
 - 3. Full-load run.
 - 4. Maximum power.
 - 5. Voltage regulation.
 - 6. Transient and steady-state governing.
 - 7. Single-step load pickup.
 - 8. Safety shutdown.
 - 9. At owner's discretion, provide 14 days' advance notice of tests and opportunity for observation of tests by Owner's representative.
 - 10. Report factory test results within 10 days of completion of test.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas, equipment bases, and conditions, with Installer present, for compliance with requirements for installation and other conditions affecting packaged engine generator performance.
- B. Examine roughing-in for piping systems and electrical connections. Verify actual locations of connections before packaged engine generator installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Interruption of Existing Electrical Service: Do not interrupt electrical service to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary electrical service according to requirements indicated:
 - 1. Notify Owner no fewer than two working days in advance of proposed interruption of electrical service.
 - 2. Do not proceed with interruption of electrical service without Owner's written permission.

3.3 INSTALLATION

- A. Comply with packaged engine generator manufacturers' written installation and alignment instructions and with NFPA 110.
- B. Equipment Mounting:
 - 1. Install packaged engine generators on cast-in-place concrete base.
 - 2. Coordinate size and location of concrete bases for packaged engine generators. Cast anchor-bolt inserts into bases. Concrete, reinforcement, and formwork requirements are specified with concrete.
- C. Install packaged engine generator to provide access, without removing connections or accessories, for periodic maintenance.
- D. Exhaust System: Install Schedule 40 304 stainless steel piping with welded joints and connect to engine muffler. Install thimble at wall. Piping shall be same diameter as muffler outlet.
- E. Fuel Piping:
 - 1. Copper and galvanized steel shall not be used in the fuel-oil piping system.
- F. Electrical Wiring: Install electrical devices furnished by equipment manufacturers but not specified to be factory mounted.

3.4 CONNECTIONS

A. Piping installation requirements are specified in other Sections. Drawings indicate general arrangement of piping and specialties.

DIESEL EMERGENCY ENGINE GENERATORS

- B. Connect fuel, cooling-system, and exhaust-system piping adjacent to packaged engine generator to allow space for service and maintenance.
- C. Connect cooling-system water piping to engine generator with flexible connectors.
- D. Connect engine exhaust pipe to engine with flexible connector.
- E. Connect fuel piping to engines with a gate valve and union and flexible connector.
- F. Ground equipment according to Section 260526 "Grounding and Bonding for Electrical Systems."
- G. Connect wiring according to Section 260519 "Low-Voltage Electrical Power Conductors and Cables." Provide a minimum of one 90-degree bend in flexible conduit routed to the engine generator from a stationary element.
- H. Balance single-phase loads to obtain a maximum of 10 percent unbalance between any two phases.

3.5 IDENTIFICATION

- A. Identify system components according to Section 230553 "Identification for HVAC Piping and Equipment" and Section 260553 "Identification for Electrical Systems."
- B. Install a sign indicating the generator neutral is bonded to the main service neutral at the main service location, if generator is not installed as a separately derived system.

3.6 FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: Engage a factory-authorized service representative to test and inspect components, assemblies, and equipment installations, including connections.
- B. Tests and Inspections:
 - 1. Load Bank Test:
 - 2. Provide a full load test utilizing a portable test bank for four hours minimum for each engine-generator set. Each test shall be performed at the job site in the presence of the Owner and Architect. Each test shall include one hour at 50% load, one hour at 75% load and two hours at 100% load. Upon completion of the load test, the generators shall be shut down after the cool down period. The generators shall then be started and immediately upon reaching rated rpm, 100% load shall be applied to demonstrate one step full load capability. The capability of the system to pick up full standby service load within 10 seconds of power outage shall also be demonstrated. After testing is complete:
 - a. A copy of the generators test report shall be submitted to the Engineer of Record and the Owner.
 - b. Test results shall record the following parameters in 15 minute intervals during four hour test:
 - 1) Kilowatts.
 - 2) Amperes.
 - 3) Voltage.
 - 4) Coolant temperature.
 - 5) Room temperature.

- 6) Frequency.
- 7) Oil pressure.
- 8) Fuel flow.
- 3. Building Loads Test: Following the load bank test, start the buildings load test. Simulate power outage, including operation of the switchgear, automatic starting cycle, and automatic shutdown and return to normal, by interrupting normal source, and demonstrate that system operates with actual building loads to provide standby power. Test all alarm and shutdown circuits by simulating conditions. Test duration shall be one hour minimum.
- 4. The contractor shall coordinate demonstration and training with the switchgear vendor to provide comprehensive system demonstration and training.
- 5. A full tank of fuel shall be provided, replacing any fuel used for testing. Diesel fuel shall be treated with and alcohol-free additive to disperse water and clean injectors.
- 6. Perform tests recommended by manufacturer and in "Visual and Mechanical Inspection" and "Electrical and Mechanical Tests" subparagraphs below, as specified in the NETA ATS. Certify compliance with test parameters.
 - a. Visual and Mechanical Inspection:
 - 1) Compare equipment nameplate data with Drawings and the Specifications.
 - 2) Inspect physical and mechanical condition.
 - 3) Inspect anchorage, alignment, and grounding.
 - 4) Verify that the unit is clean.
 - b. Electrical and Mechanical Tests:
 - 1) Perform insulation-resistance tests according to IEEE 43.
 - a) Machines Larger Than 200 hp, 150 kW: Test duration shall be 10 minutes. Calculate polarization index.
 - 2) Test protective relay devices.
 - 3) Verify phase rotation, phasing, and synchronized operation as required by the application.
 - 4) Functionally test engine shutdown for low oil pressure, overtemperature, overspeed, and other protection features as applicable.
 - 5) Conduct performance test according to NFPA 110.
 - 6) Verify correct functioning of the governor and regulator.
- 7. Battery Tests: Equalize charging of battery cells according to manufacturer's written instructions. Record individual cell voltages.
 - c. Measure charging voltage and voltages between available battery terminals for full-charging and float-charging conditions. Check electrolyte level and specific gravity under both conditions.
 - d. Test for contact integrity of all connectors. Perform an integrity load test and a capacity load test for the battery.
 - e. Verify acceptance of charge for each element of the battery after discharge.
 - f. Verify that measurements are within manufacturer's specifications.
- 8. Battery-Charger Tests: Verify specified rates of charge for both equalizing and floatcharging conditions.
- 9. System Integrity Tests: Methodically verify proper installation, connection, and integrity

of each element of engine generator system before and during system operation. Check for air, exhaust, and fluid leaks.

- 10. Voltage and Frequency Transient Stability Tests: Use recording oscilloscope to measure voltage and frequency transients for 50 and 100 percent step-load increases and decreases, and verify that performance is as specified.
- 11. Harmonic-Content Tests: Measure harmonic content of output voltage at 25 percent and 100 percent of rated linear load. Verify that harmonic content is within specified limits.
- C. Coordinate tests with tests for transfer switches, and run them concurrently.
- D. Test instruments shall have been calibrated within the past 12 months, traceable to NIST Calibration Services, and adequate for making positive observation of test results. Make calibration records available for examination on request.
- E. Leak Test: After installation, charge exhaust, coolant, and fuel systems and test for leaks. Repair leaks and retest until no leaks exist.
- F. Operational Test: After electrical circuitry has been energized, start units to confirm proper motor rotation and unit operation for generator and associated equipment.
- G. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
- H. Remove and replace malfunctioning units and retest as specified above.
- I. Retest: Correct deficiencies identified by tests and observations, and retest until specified requirements are met.
- J. Report results of tests and inspections in writing. Record adjustable relay settings and measured insulation resistances, time delays, and other values and observations. Attach a label or tag to each tested component, indicating satisfactory completion of tests.
- K. Infrared Scanning: After Substantial Completion, but not more than 60 days after final acceptance, perform an infrared scan of each power wiring termination and each bus connection while running with maximum load. Remove all access panels, so terminations and connections are accessible to portable scanner.
 - 1. Follow-up Infrared Scanning: Perform an additional follow-up infrared scan 11 months after date of Substantial Completion.
 - 2. Instrument: Use an infrared scanning device designed to measure temperature or to detect significant deviations from normal values. Provide calibration record for device.
 - 3. Record of Infrared Scanning: Prepare a certified report that identifies terminations and connections checked and that describes scanning results. Include notation of deficiencies detected, remedial action taken, and observations after remedial action.

3.7 TRAINING

A. Prior to final acceptance, the manufacturer's authorized representative shall provide comprehensive training and thoroughly and competently instruct the Owner's designated personnel in proper operation of the system and in all required periodic maintenance. Training shall include, but not be limited to, operation (all aspects including normal and emergency)

modes), maintenance and troubleshooting of the equipment. A minimum of eight (8) hours on site time, in addition to load bank testing, shall be allocated for this purpose.

3.8 MAINTENANCE SERVICE

A. Initial Maintenance Service: Beginning at Substantial Completion, maintenance service shall include 12 months' full maintenance by skilled employees of manufacturer's authorized service representative. Include quarterly preventive maintenance and exercising to check for proper starting, load transfer, and running under load. Include routine preventive maintenance as recommended by manufacturer and adjusting as required for proper operation. Parts shall be manufacturer's authorized replacement parts and supplies.

3.9 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain packaged engine generators.

END OF SECTION 263213



SUBSTITUTION REQUEST

(During the Bidding/Negotiating Stage)

		(During the Didding/Acgotiating Stage)			
Project:	Beach Fire Station	Substitution Request Number:			
		From: Ellen Walkama			
То:	Kim Wilson	Date: 11/07/2023			
10.					
_	Desting Subrequest	A/E Project Number:			
Re:	Roofing Subrequest	Contract For:			
	tion Title: Thermoplastic Polyolefin	Description: TPO			
Section:	0754 23 TPO ROOFING	Article/Paragraph:			
Proposed	Substitution:				
Manufact	urer: <u>Sika Sarnafil</u> Address: <u>100 Dan Ro</u> me:	Dad, Canton, MA 02 Phone: 800-451-2502 Model No.: 800-451-2502			
Attached		wings, photographs, and performance and test data adequate for evaluation of ed.			
	data also includes a description of changes to the C	Contract Documents that the proposed substitution will require for its proper			
• 1833 3483	bosed substitution does not affect dimensions and functions are associated with the function of the function	EIGHAI CICAIAICES. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
Signed by	Rill Rill				
Firm:	Sika Sarnafil				
Address:	100 Dan Road Canton MA 02021				
Telephone	e: 781-332-3259				
A /E2 DE					
	VIEW AND ACTION				
□ Substit □ Substit		h Specification Section 01 25 00 Substitution Procedures. dance with Specification Section 01 25 00 Substitution Procedures. rials.			
Signed by	<i>t</i> :	Date:			
Supportin	ng Data Attached: 🗆 Drawings 📕 Product D	Pata 🗆 Samples 🗆 Tests 🗆 Reports 🔲			



Project:	North Topsail Beach Fire Station #2	Substitution Request Number: 1	
	North Topsail Beach, NC	From: David Hartis	
To:	Mr. Brian Stamp	Date: 111/6/2023	
	Monteith Construction Corp.	A/E Project Number: 2021025.02	
Re:	Substitution Request for Polyvinyl-Chlor (PVC) Roofing	oride Contract For: Division 7 Materials	
Specifica	tion Title: Division 7	Description: Polyvinyl-Chloride (PVC) Roofing	
opeenie	Section: 075419 - 5 Page: 075419 - 4	Article/Paragraph: 2.3	
Manufact	Substitution: Sentinel P150 60 Mil PVC Ro turer: Soprema Address: Wadsworth me: Sentinel P150 60 Mil PVC	oof System n, OH Phone: 800-356-3521 Model No.:	

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product. •
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Submitted by:	David Hartis
Signed by:	David Hartis
Firm:	RSG Building Solutions
Address:	9333-F Forsyth Park Drive
	Charlotte, NC 28273
	877-314-9435
	<u> </u>

A/E's REVIEW AND ACTION

Substitution approved as noted - Make submittals in accordance with Specification Section 01330.

Substitution rejected - Use specified materials.

Substitution rejected - Use specified materials. Substitution Request received too late - Use specified materials.

Signed by:	Date:			
Supporting Data Attached:	Drawings	X Product Data Samples	Tests	Reports

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