BUILDING 500 EXTERIOR CANOPY SHELTER

HORRY-GEORGETOWN TECHNICAL COLLEGE
4003 SOUTH FRASER STREET
GEORGETOWN, SC 29440

SOUTH CAROLINA STATE PROJECT NUMBER
H59-N269-CB HGTC BLDG. 500 EXTERIOR RENOVATION

SYMBOLS LEGEND

DRAWING TITLE
DRAWING I.D. NUMBER
1 FLOOR PLAN
SCALE: 3/16" = 1'-0"

DETAIL (ENLARGEMENT)
DRAWING I.D. NUMBER
1 / A13 — AREA TO BE ENLARGED
SHEET NUMBER

BUILDING SECTION
DRAWING I.D. NUMBER
SHEET NUMBER
1 / A2.13

WALL SECTION
DRAWING I.D. NUMBER
SHEET NUMBER
1 / A1.22

1 COLUMN REFERENCE NUMBER
COLUMN CENTER LINE — A

ELEVATION
SECTION I.D. NUMBER
SHEET NUMBER
1 / A1.22

ELEVATION HEIGHT
LEVEL 00'-00" — REFERENCE LEVEL ELEVATION HEIGHT

REVISIONS
ADDENDUM NUMBER 2 — REVISED AREA

ROOM NUMBER
ROOM NAME
ROOM NUMBER
SQUARE FOOTAGE
VESTIBULE 101

CEILING HEIGHT
9'-6" CEILING HEIGHT ABOVE FINISHED FLOOR

DOOR NUMBER
1 DOOR NUMBER DESIGNATION

KEYED NOTES
1 KEYED NOTE DESIGNATION

WINDOW NUMBER
A WINDOW NUMBER DESIGNATION

FINISH MATERIAL
P-1 FINISH DESIGNATION, TRIM ONLY COMMENTS, IF APPLICABLE

NORTH ARROW
TRUE PROJECT NORTH

INTERIOR ELEVATION TAG
A ELEVATION NOTATION
1 / A3.33 DETAIL NUMBER, DIRECTION OF ELEVATION, REFERENCE DRAWING NOMBER

TOILET ACCESSORIES
PDT ACCESSORY NUMBER DESIGNATION

EQUIPMENT NUMBER
AH-12 ACCESSORY NUMBER DESIGNATION

FIRE EXTINGUISHER
WALL HUNG
WITH CABINET

VICINITY MAP

CONTACT LIST

OWNERS
CLIENT NAME: DIANNA CECALA / KEVIN BROWN
ORGANIZATION NAME: HORRY GEORGETOWN TECH COLLEGE, BUILDING 500
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ISSUED ONLY FOR:
- [ ] SCHEMATIC DESIGN APPROVAL
- [X] DESIGN DEVELOPMENT APPROVAL
- [ ] CONSTRUCTION DOCUMENTS APPROVAL
- [ ] STRUCTURAL DESIGN APPROVAL
- [ ] M-E-P DESIGN APPROVAL

ACCEPTANCE by:
1st Owner:_____
Date:_____
2nd Owner:_____
Date:_____

BUILDING CODES UTILIZED

2021 INTERNATIONAL BUILDING CODE
2021 INTERNATIONAL EXISTING BUILDING CODE
2021 INTERNATIONAL MECHANICAL CODE
2021 INTERNATIONAL FIRE CODE
2021 INTERNATIONAL PLUMBING CODE
2021 INTERNATIONAL FUEL GAS CODE
2021 NATIONAL ELECTRIC CODE
2021 INTERNATIONAL ENERGY CONSERVATION CODE
2021 ICC A117.1 ACCESSIBILITY CODE
NFPA STANDARDS
(AS ADOPTED BY THE OFFICE OF STATE FIRE MARSHAL)

ABBREVIATIONS

A.D.A.	AMERICANS WITH DISABILITIES ACT
A.F.F.	ABOVE FINISHED FLOOR
A/C	AIR CONDITIONING
ALUM.	ALUMINUM
BLDG.	BUILDING
C/C	CENTER TO CENTER
CL	CENTER LINE
CMU	CONCRETE MASONRY UNIT
D.F.	DRINKING FOUNTAIN
DIA.	DIAMETER
DWG.	DRAWING
E.I.F.S.	EXTERIOR INSULATION FINISH SYSTEM ELECTRICAL
ELEC.	ELECTRIC WATER COOLER
EWC	ELECTRIC WATER HEATER
EWH	FLOOR DRAIN
F.D.	FIRE EXTINGUISHER
F.E.	FINISH FLOOR
FIN.FLR.	GENERAL CONTRACTOR
G.C.	GALLONS PER HOUR
G.P.H.	GROUND FAULT INTERCEPT CIRCUIT
G.F.I.C.	GYPSUM BOARD
GYP.BD.	HEATING VENTILATION AND AIR
HVAC	CONDITIONING
IBC	INTERNATIONAL BUILDING CODE
MFR.	MANUFACTURER
MIN.	MINIMUM
MTL.	METAL
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
N/A	NOT APPLICABLE
#	NUMBER
O.C.	ON CENTER
P.E.	PHOTO-ELECTRIC
PLBG.	PLUMBING
PLYWD	PLYWOOD
PVC	POLY-VINYL CHLORIDE
R.D.	ROOF DRAIN
R.O.	ROUGH OPENING
R.R.	RESTROOM
RTU	ROOF TOP UNIT
S/S	STAINLESS STEEL
SPECS.	SPECIFICATIONS
SS	SANITARY SEWER
ST.	STORM DRAIN
TYP.	TYPICAL
U.L.	UNDERWRITERS LABORATORIES
U.N.O.	UNLESS NOTED OTHERWISE
V.C.T.	VINYL COMPOSITE TILE
VTR	VENT THROUGH ROOF
W.C.	WATER CLOSET
W.H.	WATER HEATER
W/	WITH
WC	WATER CLOSET

INDEX OF DRAWINGS

STATEMENT OF SPECIAL INSTRUCTIONS

Inspection Description	IBC 2018 Section	INIT	Required: (yes / no)	Extent: (periodic or continuous)	Agent	Completed
Special Cases	1705.1.1	XX				
Structural Steel	1705.2.1	SS				
Cold Formed Steel Deck	1705.2.2	SD				
Open Web Joists & Girders	1705.2.3	OWJ				
Cold Formed Steel Joist 60 FT+	1705.2.4	SJ				
Reinforced Concrete	1705.3.1	RC				
Post-Tension Slabs-on-Ground	1705.3	PTS				
Precast Concrete Erection	1705.3	PCE				
Anchor Bolts in Concrete	1705.3	ABC				
Shotcrete	1705.3	SHOT				
Structural Masonry	1705.4	SM				
Structural Wood	1705.5	SW				
High Load Diaphragms	1705.5.1	HLD				
Metal Plate Wood Truss 60 FT+	1705.5.2	MPCT				
Excavation and Filling	1705.6	EF	YES			
Verification of Soils	1705.6	VSSW				
Driven Deep Foundations	1705.7	DDF				
Cast In Place Deep Foundations	1705.8	CIPF				
Helical Pile Foundations	1705.9	HPF				
Fabricated Items	1705.10	FI				
Wind-Force Resisting Systems	1705.11	WFRS				
Seismic Resistance	1705.12	SR				
Seismic - Structural Steel	1705.12.1	SISS				
Seismic - Structural Wood	1705.12.2	SISW				
Seismic - Cold Formed Steel	1705.12.3	SICFS				
Seismic - Architectural Components	1705.12.5	SIAC				
Seismic - MEP Components	1705.12.6	SIMEP				
Seismic - Storage Racks	1705.12.6	SISR				
Seismic Testing	1705.13	SIT				
Sprayed Fire-Resistant Materials	1705.14	SFRM				
Mastic and Intumescent Coatings	1705.15	MIC				
Exterior Insulation and Finish System	1705.16	EIF				
Smoke Control Systems	1705.18	SCS				
Welding		SW				
Nondestructive Testing of Welds (SN/ MT, PT, UT, or RT)		SN/				
High Strength Bolting	1705.2	SS				
Modular Retaining Walls		MRW				
Inspection of Fabricators; Precast Concrete	1704.2.5	FABR				
Bar Joist, Metal Buildings, and Structural Steel						
Architect of Record / Engineer of Record						
Date:					SEAL	

DEFINITIONS:

#1) SPECIAL INSPECTOR: PER IBC "A QUALIFIED PERSON EMPLOYED OR RETAINED BY AN APPROVED AGENCY AND APPROVED BY THE BUILDING OFFICIAL AS HAVING THE COMPETENCE NECESSARY TO INSPECT A PARTICULAR TYPE OF CONSTRUCTION REQUIRING SPECIAL INSPECTION".

#2) PERIODIC SPECIAL INSPECTION: PER IBC "SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED".

#3) CONTINUOUS SPECIAL INSPECTION: PER IBC "SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED". THIS IS INTENDED TO BE A CONTINUOUS INSPECTION.

ALUMINUM:

WHERE ALUMINUM IS PLACED IN CONTACT WITH DISSIMILAR MATERIALS, THE ALUMINUM SHALL BE PROTECTED AGAINST CORROSION OR BACK-PAINTED BEFORE ERECTION 1. WITH ZINC CHROMATE PAINT. THE METHOD OF PROTECTION SHALL BE APPROVED BY THE SUPPLIER FOR THE SYSTEM. ALL ALUMINUM SURFACES SHALL BE PROTECTED FROM DAMAGE BY MORTAR, LIME, ACIDS, CONCRETE OR OTHER HARMFUL MATERIALS/SUBSTANCES. PROCEDURES AS 2. PRESCRIBED BY THE MANUFACTURER SHALL BE FOLLOWED FOR HANDLING, PROTECTION, CLEANING AND STORAGE.

WINDOWS/ STOREFRONT/ GLASS SYSTEMS:

1) ALL MEMBERS PART OF GLASS SYSTEMS SHALL BE SECURELY ANCHORED TO THE STRUCTURAL SYSTEM(S) AS DETAILED BY THE MANUFACTURER AND/OR IN THE STOREFRONT/GLASS SHOP DRAWINGS. CARE SHALL BE TAKEN TO INSTALL THE GLASS SYSTEM MEMBERS TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT EXCESSIVE DEFLECTION OR BUCKLING AS REQUIRED BY THE GLASS SYSTEM DESIGNER. ADDITIONAL CONSTRUCTION AND ATTACHMENT INFORMATION MAY BE CONTAINED IN THE SHOP.
2) WHEN THE HEAD TRACK IS ATTACHED TO STRUCTURAL MEMBERS LOCATED ABOVE THE GLASS SYSTEM THE STOREFRONT SUPPLIER/DESIGNER SHALL PROVIDE A HEAD TRACK OR "SPECIAL TRACK" TO ALLOW FOR THE NORMAL VERTICAL DEFLECTIONS OF THOSE MEMBERS. TYPICALLY, THE VERTICAL DEFLECTION CAN BE APPROXIMATED AS THE SPAN/360
3) WHERE ALUMINUM IS PLACED IN CONTACT WITH DISSIMILAR MATERIALS, THE ALUMINUM SHALL BE PROTECTED AGAINST CORROSION OR BACK-PAINTED BEFORE ERECTION WITH ZINC CHROMATE PAINT. THE METHOD OF PROTECTION SHALL BE APPROVED BY THE GLASS SYSTEM DESIGNER FOR THE SUPPLIED SYSTEM.
4) ALL ALUMINUM SURFACES SHALL BE PROTECTED FROM DAMAGE BY MORTAR, LIME, ACIDS, CONCRETE OR OTHER HARMFUL MATERIALS/SUBSTANCES. PROCEDURES AS PRESCRIBED BY THE MANUFACTURER SHALL BE FOLLOWED FOR HANDLING, PROTECTION, CLEANING AND STORAGE.
5) ALL GLASS SYSTEM COMPONENTS AND GLASS SHALL BE DESIGNED TO SATISFY THE WIND REQUIREMENTS (BOTH NEGATIVE AND POSITIVE PRESSURES) AS SET FORTH IN THE LATEST EDITION OF THE APPLICABLE BUILDING CODE. THE PRESSURES INDICATED IN THE BUILDING LOAD TABLE (IF PRESENT) MAY BE USED AS A GUIDE IN PRELIMINARY PRICING FOR THE PROJECT. THE FINAL DESIGN OF THE GLASS SYSTEM(S) SHALL CONSIDER THE SIZE AND LOCATION OF THE GLASS SYSTEM ON THE BUILDING AS WELL AS THE GEOGRAPHIC LOCATION OF THE BUILDING RELATIVE TO THE REQUIRED BUILDING CODE(S).
6) THE GLASS SYSTEM SUBCONTRACTOR SHALL PROVIDE THE NECESSARY STRUCTURAL DESIGN FOR THE SUPPLIED GLASS, METAL FRAME COMPONENTS AND CONNECTIONS TO THE STRUCTURAL SYSTEM FOR THE BUILDING. THE DESIGN AS INDICATED IN THE SHOP DRAWINGS SHALL BEAR THE SEAL OF A REGISTERED PROFESSIONAL LICENSED IN THE PROJECT STATE.

STATEMENT OF SPECIAL INSPECTIONS FOR STRUCTURAL COMPONENTS (PER CHAPTER 17, 2021 IBC)

SPECIAL INSPECTION COMPANY / COORDINATOR - TO BE RETAINED BY OWNER

BUILDING SYSTEM OR COMPONENT	MATERIAL SUBMITTAL	TESTING			INSPECTION (PER IBC)			QUALITY ASSURANCE (PER IBC)	
		REQUIREMENTS	FREQUENCY	AGENCY	MONITORING	FREQUENCY	AGENCY	PART OF WIND	PART OF SEISMIC
SOILS (COMPACTED FILL)	N/A	1. TEST IN PLACE DRY DENSITY OF COMPACTED FILL	1. AS APPROVED GEOTECHNICAL ENGINEER	TESTING LAB TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL	AS EXCAVATION AND FILL PLACEMENT BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH GEOTECHNICAL REPORT. 1. MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY AS SPECIFIED IN SOILS REPORT. 2. EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. 3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS. 4. USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL. 5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUB-GRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	1. PERIODIC 2. PERIODIC 3. PERIODIC 4. CONTINUOUS 5. PERIODIC	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL	1. COLUMNS AND SHEAR WALLS ACCORDANCE WITH APPROVED SOILS REPORT PRIOR TO PLACEMENT TO FILL.	1. COLUMNS AND SHEAR WALLS ACCORDANCE WITH APPROVED SOILS REPORT PRIOR TO PLACEMENT TO FILL.
CONCRETE FOUNDATIONS	1. SUBMIT CONCRETE MIX DESIGN. 2. SUBMIT FOUNDATION REINFORCEMENT SHOP DRAWINGS 3. VERIFY PROPER CONCRETE STRENGTH.	1. TEST CONCRETE STRENGTH.	1. (1) SET OF CYLINDERS FOR EACH VERTICAL LIFT OR EACH 50 YARDS OF CONCRETE	TESTING LAB TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL	AS CONCRETE AND REINFORCING STEEL CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE INSPECTED TO ENSURE COMPLIANCE: 1. VERIFY REINFORCING SIZE, QUANTITY & PLACEMENT 2. ANCHORS CAST IN CONCRETE 3. ANCHORS POST INSTALLED IN HARDENED AT THE TIME FRESH CONCRETE IS CONCRETE SAMPLED TO 4. VERIFYING USE OF REQUIRED DESIGN MIX FABRICATE SPECIMENS FOR STRENGTH TEST, AND DETERMINE THE TEMPERATURE OF CONCRETE 6. CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES 7. INSPECT FORMWORK FOR; SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	1. PERIODIC 2. PERIODIC 3. PERIODIC 4. PERIODIC 5. CONTINUOUS 6. CONTINUOUS 7. PERIODIC	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL	1. SPREAD FOOTINGS AT BEARING WALLS AND SHEARWALL.	1. SPREAD FOOTINGS AT BEARING WALLS AND SHEARWALL.
STRUCTURAL STEEL	1. SUBMIT MANUFACTURER'S CERTIFIED MILL TEST REPORTS FOR STRUCTURAL STEEL.	N/A	N/A	N/A	1. INSPECT STEEL FRAME JOINT DETAIL FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS.	1. PERIODIC	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL IBC	1. FLOOR AND ROOF SYSTEM FRAMING	1. FLOOR AND ROOF SYSTEM FRAMING
STRUCTURAL STEEL HIGH-STRENGTH BOLTING (AND MECHANICAL FASTENING OF METAL DECK)	1. SUBMIT MANUFACTURER'S CERTIFICATE OF COMPLIANCE FOR HIGH-STRENGTH BOLTS, NUTS, WASHERS AND/OR FASTENERS	N/A	N/A	N/A	1. VERIFY BOLTING IN BEARING-TYPE CONNECTIONS ARE INSTALLED IN ACCORDANCE WITH AISC SPECIFICATIONS. 2. VERIFY BOLTING IN SLIP-CRITICAL CONNECTIONS ARE INSTALLED IN ACCORDANCE WITH AISC SPECIFICATIONS. 3. VERIFY IDENTIFICATIONS MARKING ON HIGH-STRENGTH BOLTS, NUTS AND WASHERS CONFORMING TO ASTM STANDARDS SPECIFIC. 4. VERIFY FASTENER TYPE AND ADHERENCE TO SPECIFIED FASTENER ATTACHMENT PATTERN. 5. VERIFY PROPER STORAGE AND HANDLING OF BOLTS, NUTS, WASHERS.	1. PERIODIC	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL IBC	1. FLOOR AND ROOF SYSTEM BOLTING	1. FLOOR AND ROOF SYSTEM BOLTING
STRUCTURAL STEEL WELDING	1. SUBMIT MANUFACTURER'S CERTIFICATE OF COMPLIANCE FOR WELD FILLER MATERIAL.	N/A	N/A	N/A	VERIFY WELDING IS IN COMPLIANCE WITH AWS D1.1 1. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS 2. MULTIPASS FILLET WELDS 3. SINGLE-PASS FILLET WELDS > 5/16" 4. SINGLE-PASS FILLET WELDS < OR = 5/16" 5. FLOOR AND DECK WELDS	1. CONTINUOUS 2. CONTINUOUS 3. CONTINUOUS 4. PERIODIC 5. PERIODIC	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL IBC	1. FLOOR AND ROOF SYSTEM WELDING	1. FLOOR AND ROOF SYSTEM WELDING
WOOD CONSTRUCTION	1. SUBMIT PER-ENGINEERED TRUSS DWG'S PREPARED UNDER REGISTERED ENGINEER 2. SUBMIT HOLD DOWN SHOP DRAWINGS. 3. SUBMIT MANUFACTURER DATA ON CONNECTION HARDWARE.	1. NONE	1. NONE	TESTING LAB TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL PER IBC.	AS WOOD CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE INSPECTED TO ENSURE COMPLIANCE 1. VERIFY WOOD STRUCTURAL ELEMENTS PROPER SIZE AND GRADE 2. VERIFY GRADE & THICKNESS OF ALL STRUCTURAL PANEL SHEATHING 3. VERIFY ALL STRUCTURAL FASTENING & BLOCKING INCLUDING PATTERNS OF WALL, FLOOR & ROOF SHEATHING 4. VERIFY ALL BRIDGING, STRAPPING & CLIPS ARE INSTALLED PER CONSTRUCTION DOCUMENTS. 5. VERIFY HOLD DOWNS ARE LOCATED & INSTALLED PER CONSTRUCTION DOCUMENTS	1. PERIODIC 2. PERIODIC 3. PERIODIC 4. PERIODIC 5. PERIODIC	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL IBC	1. YES	1. YES

NOTE: ALL TESTING, INSPECTION & RELATED REPORTS SHALL BE SENT TO THE SPECIAL INSPECTION COORDINATOR & THE OWNER. ANY DEFICIENCIES SHALL BE CLEARLY NOTED & BROUGHT TO THE ATTENTION OF THE SPECIAL INSPECTION COORDINATOR BEFORE THE END OF THE INSPECTOR'S SHIFT.

SEISMIC QUALITY ASSURANCE PLAN

1. THE FOLLOWING SEISMIC SYSTEMS AND SEISMIC-FORCE-RESISTING SYSTEM ARE SUBJECT TO QUALITY ASSURANCE:
   A. MASONRY SHEARWALL REINFORCEMENT.
   B. ATTACHMENT OF ROOF STRUCTURAL SYSTEM TO SHEARWALLS.
   C. INSTALLATION OF SUSPENDED CEILINGS AND THEIR ANCHORAGE.
   D. ANCHORAGE OF ELECTRICAL EQUIPMENT USED FOR EMERGENCY OR STANDBY POWER.
   E. ANCHORAGE OF EXTERIOR WALL PANELS &/OR GLAZING.
2. PROVIDE SPECIAL INSPECTIONS FOR SYSTEMS INDICATED ABOVE AS INDICATED IN SPECIAL INSPECTIONS CHART.
3. TYPE AND FREQUENCY OF TESTING PER CHART.
4. TYPE AND FREQUENCY OF SPECIAL INSPECTIONS SEE CHART.
5. ALL REPORTS TO ARCHITECT, STRUCTURAL ENGINEER AND SPECIAL INSPECTIONS COORDINATOR.
6. PERIODIC STRUCTURAL OBSERVATION WILL BE PERFORMED AT SIGNIFICANT CONSTRUCTION STAGES AND AT THE COMPLETION OF THE STRUCTURAL SYSTEM.
7. STRUCTURAL OBSERVATION REPORTS TO ARCHITECT, STRUCTURAL ENGINEER

CONTRACTOR'S RESPONSIBILITY

EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A SEISMIC - FORCE -RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR A COMPONENT LISTED IN THE SEISMIC QUALITY ASSURANCE PLAN SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND TO THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:

1. ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE WIND QUALITY ASSURANCE PLAN.
2. ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS.
4. IDENTIFICATIONS AND QUALIFICATIONS OF PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.
5. IDENTIFICATIONS AND QUALIFICATIONS OF PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

WIND QUALITY ASSURANCE PLAN

1. THE FOLLOWING MAIN WIND FORCE-RESISTING SYSTEMS AND WIND RESISTING COMPONENTS ARE SUBJECT TO QUALITY ASSURANCE:
   A. MASONRY SHEARWALL CONSTRUCTION AND REINFORCEMENT.
   B. ROOF DIAPHRAGM SYSTEMS.
   C. WALL CONNECTIONS TO ROOF DIAPHRAGM AND FRAMING.
   D. GLAZING SYSTEM FABRICATION AND INSTALLATION.
   E. ROOF CLADDING AND ROOF FRAMING COMPONENTS.
2. PROVIDE SPECIAL INSPECTIONS FOR SYSTEMS INDICATED ABOVE AS INDICATED IN SPECIAL INSPECTIONS CHART.
3. TYPE AND FREQUENCY OF TESTING PER CHART.
4. TYPE AND FREQUENCY OF SPECIAL INSPECTIONS SEE CHART.
5. ALL REPORTS TO ARCHITECT, STRUCTURAL ENGINEER AND SPECIAL INSPECTIONS COORDINATOR.
6. PERIODIC STRUCTURAL OBSERVATION WILL BE PERFORMED AT SIGNIFICANT CONSTRUCTION STAGES AND AT THE COMPLETION OF THE STRUCTURAL SYSTEM.
7. STRUCTURAL OBSERVATION REPORTS TO ARCHITECT, STRUCTURAL ENGINEER

CONTRACTOR'S RESPONSIBILITY

EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A SEISMIC - FORCE -RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR A COMPONENT LISTED IN THE SEISMIC QUALITY ASSURANCE PLAN SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND TO THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:

1. ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE WIND QUALITY ASSURANCE PLAN.
2. ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS.
4. IDENTIFICATIONS AND QUALIFICATIONS OF PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

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REVISION SCHEDULE

NO.	DATE	DESCRIPTION	BY
1			
2	---	---	---
3	---	---	---
4	---	---	---
5	---	---	---
6	---	---	---
7	---	---	---
8	---	---	---
9	---	---	---
10	---	---	---
11	---	---	---
12	---	---	---

BUILDING 500 EXTERIOR CANOPY SHELTER

HORRY-GEORGETOWN TECHNICAL COLLEGE
4003 SOUTH FRASER STREET
GEORGETOWN, SC 29440

SPECIAL INSPECTIONS

PREPARED FOR:
HORRY-GEORGETOWN TECHNICAL COLLEGE
BOAT BUILDING

PROJECT #:	241006
DATE:	05/13/2024
SCALE:	AS NOTED
DESIGNED BY:	SS
DRAWN BY:	RP
CHECKED BY:	SS

G1.02

2021 South Carolina Building Code Data

GENERAL INFORMATION

Project Name: BLDG 500 Extension — Address: 4003 SOUTH FRASER STREET, GEORGETOWN SC 29440
Owner's Name: HORRY GEORGETOWN TECHNICAL COLLEGE — Address: 2050 HWY 501 EAST CONWAY, SC29526
Building Code Dept: Horry County Code Enforcement, 1301 Second Avenue, Conway, SC 29526
Project Description: 2110 SQFT. OUTDOOR CANOPY SPACE FOR BOAT / FIBERGLASS REPAIR

CHAPTER-3 ASSEMBLY GROUP "B"

CHAPTER-5 GENERAL BLDG. HGT. & AREAS

Floor (Use):	Allowable Area (Table #506.2)	Frontage Increase (Para. #506.3)	Total Allowable Area (per Floor)	Actual Area (per Floor)
1st Floor:	9,000 sq.ft.	N/R	9,000 sq.ft.	2,110 sq.ft.
2nd Floor:	N/A	N/A	N/A	N/A

Allowable Height (Para. #504.3): "ASSEMBLY GROUP B" Occupancy, Non-Sprinkled, UnProtected: 40'-0"....(Actual: <25'-0")
Allowable Stories (Para. #504.4):"ASSEMBLY GROUP B" Occupancy, Non-Sprinkled, UnProtected: 2 stories .....(Actual: 1)
Mixed Use (508.1): N/A
Accessory use Areas (508.2): N/A
Non-Separated Occupancies (508.3): N/A
Separated Occupancies (508.4): N/A
Incidental Use Areas (Table 509): N/A

CHAPTER-6 TYPE OF CONSTRUCTION

Para. #602: Type 2B
Fire Resistance Rating / Table #601:

Structural Frame:	Ext.Bearing Wall:	Int.Bearing Wall:	Floor Construction:	Roof Construction:
0 hr.	0 hr.	0 hr.	0 hr.	0 hr.

Fire Resistance Rating of Exterior Wall / Table #602: > 30' = 0 hr.

CHAPTER-7 FIRE RATED CONSTRUCTION

Maximum Exterior Wall Opening / Table #705.8:

	North	East	South	West
Separation Distance:	>30'-0"	>30'-0"	>30'-0"	>30'-0"
Maximum Opening %:	U/L	N/A	U/L	U/L

Shaft Enclosures (Section 707.3.1): N/A
Fire Partitions (Para. 708.1): Under #708.3 "Exceptions"; If Sprinkled; Corridor & Sleeping Unit walls can be 1/2 h. Fire Rated

CHAPTER-9 FIRE PROTECTION

Full Fire Suppression System (903.2): Use Group "B": Not Required <12,000 sqft. <300 Occupants @ Ground Level
Standpipe System (905.4): Not Required: < 30' above finish grade.
Fire Extinguishers (906.1): Yes as required by the International Fire Code (10-b Rating at < 30 Travel Distance)
Fire Alarm Detection system (907.2.2): Not Required
Automatic Smoke Detection System (907.2.8.1): Not Required

CHAPTER-10 MEANS OF EGRESS

Design Occupant Load / Table 1004.1:

	RM #	Occupant/SF.	Actual SF.	# Occupants
Office:	103	150 gross	1055 (min) sq.ft.	7
Total:				7

Required Egress Width / Table #1005.1:
Doorways: 0.2" per Occupant (Refer to Life Safety Plan for concurrence)

#of Exits Table #1006.2.1: Spaces < 49 & <100' Egress Travel Distance = 2.
Required Exit Separation Para. #1007.1.1: A minimum of 1/2 the Diagonal distance.
Egress Illumination #1008.3.2: Exit Doors, Corridors, Vestibules & Exterior Landings
Elevator #1009.2.1 & 1009.4: No Elevators
Panic Hardware #1010.1.10: Not Required in B Occupancy <50 Occupants
Exit Stairway Width #1011.2: N/A
Maximum Egress Travel Distance / Table #1017.2: N/A No Corridors
Corridor Fire Rating Table #1020.1: N/A No Corridors

CHAPTER-11 A.D.A.

Toilet Room & Bathing Requirements (1109.2.): At least (1) one of each Plbg. Fixture & Dispenser
Family Toilet Requirements (1110.2.1): N/A

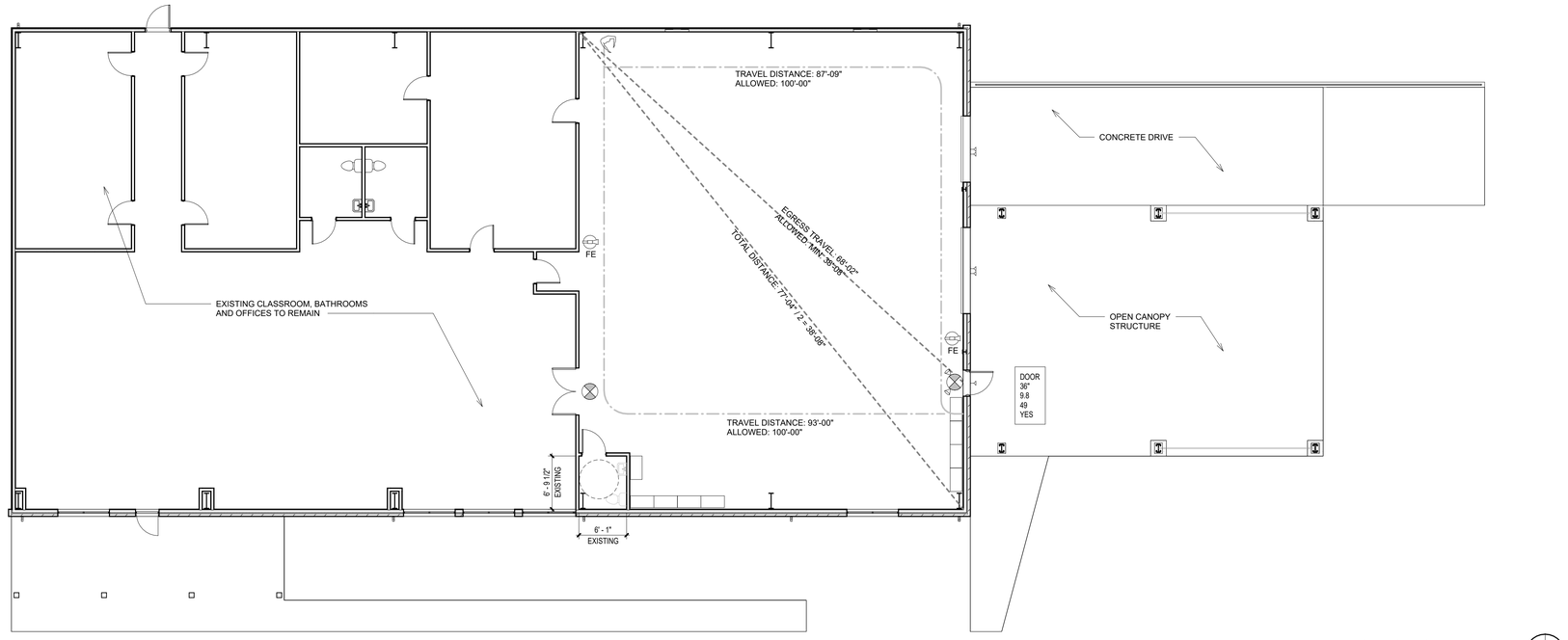
CHAPTER-29 PLUMBING SYSTEMS

Requirement:	Calculation:		Remarks:
Toilets: Male: 1/25 Female: 1/25	1 PER 25 OCCUPANTS		ALL SHALL MEET ADA REQUIREMENTS
Lavatories: Male: 1/25 Female: 1/25	1 PER 25 OCCUPANTS		ALL SHALL MEET ADA REQUIREMENTS
Baths/Showers: N/A	N/A		N/A
Drinking Fountainst/100	23 Occupants/100		
Service Sink: 1	=1		1 Unit shall meet ADA requirements

Lavatories: Note - Refer to Life Safety Plan for Location of Restrooms

LIFE SAFETY LEGEND

ITEM	DESCRIPTION
	STARTING POSITION OF PERSON EGRESSING SPACE
	EMERGENCY LIGHT / EXIT SIGN
	EMERGENCY LIGHT / EXIT SIGN
FE	FIRE EXTINGUISHER
S	SMOKE DETECTOR
DOOR 34" 170 10 NO	EXIT DOOR SYMBOL CLEAR DOOR WIDTH DOOR'S EXIT CAPACITY DOOR'S EXIT REQUIREMENT PANIC DEVICE REQUIRED
	DISTANCE
	PATH OF TRAVEL
	EXTERIOR EGRESS LIGHT



1 **LEVEL 1 FLOOR PLAN**
SCALE 1/8" = 1'-0"

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BUILDING 500 EXTERIOR CANOPY SHELTER
HORRY-GEORGETOWN TECHNICAL COLLEGE
4003 SOUTH FRASER STREET
GEORGETOWN, SC 29440

LIFE SAFETY PLAN / CODE REVIEW

PREPARED FOR:
HORRY-GEORGETOWN TECHNICAL COLLEGE
BOAT BUILDING

PROJECT #:	241006
DATE:	05\13\2024
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DESIGNED BY:	SS
DRAWN BY:	RP
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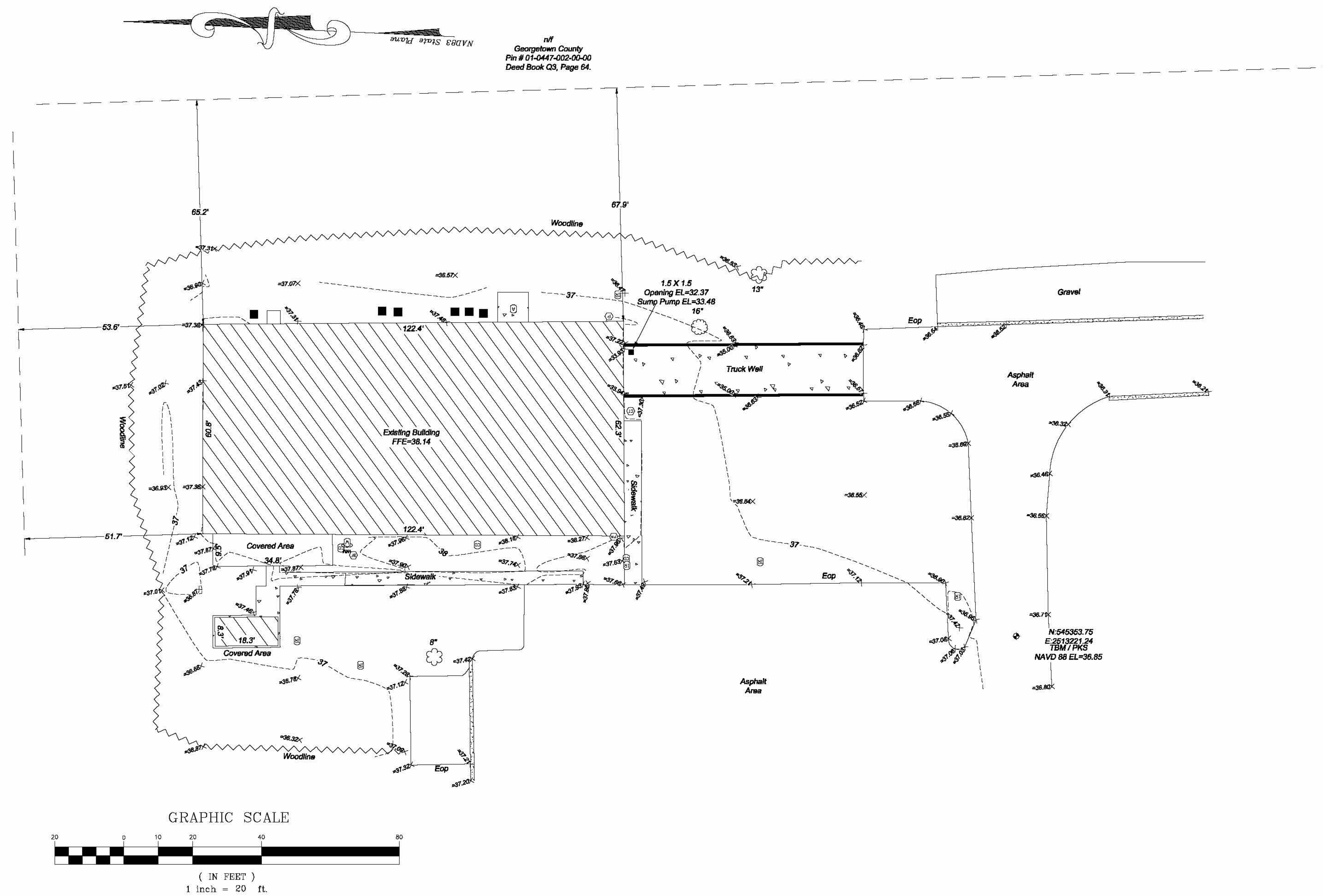

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BUILDING 500 EXTERIOR CANOPY SHELTER

HORRY-GEORGETOWN TECHNICAL COLLEGE
4003 SOUTH FRASER STREET
GEORGETOWN, SC 29440

EXISTING CONDITIONS

PREPARED FOR:

HORRY-GEORGETOWN TECHNICAL COLLEGE

BOAT BUILDING

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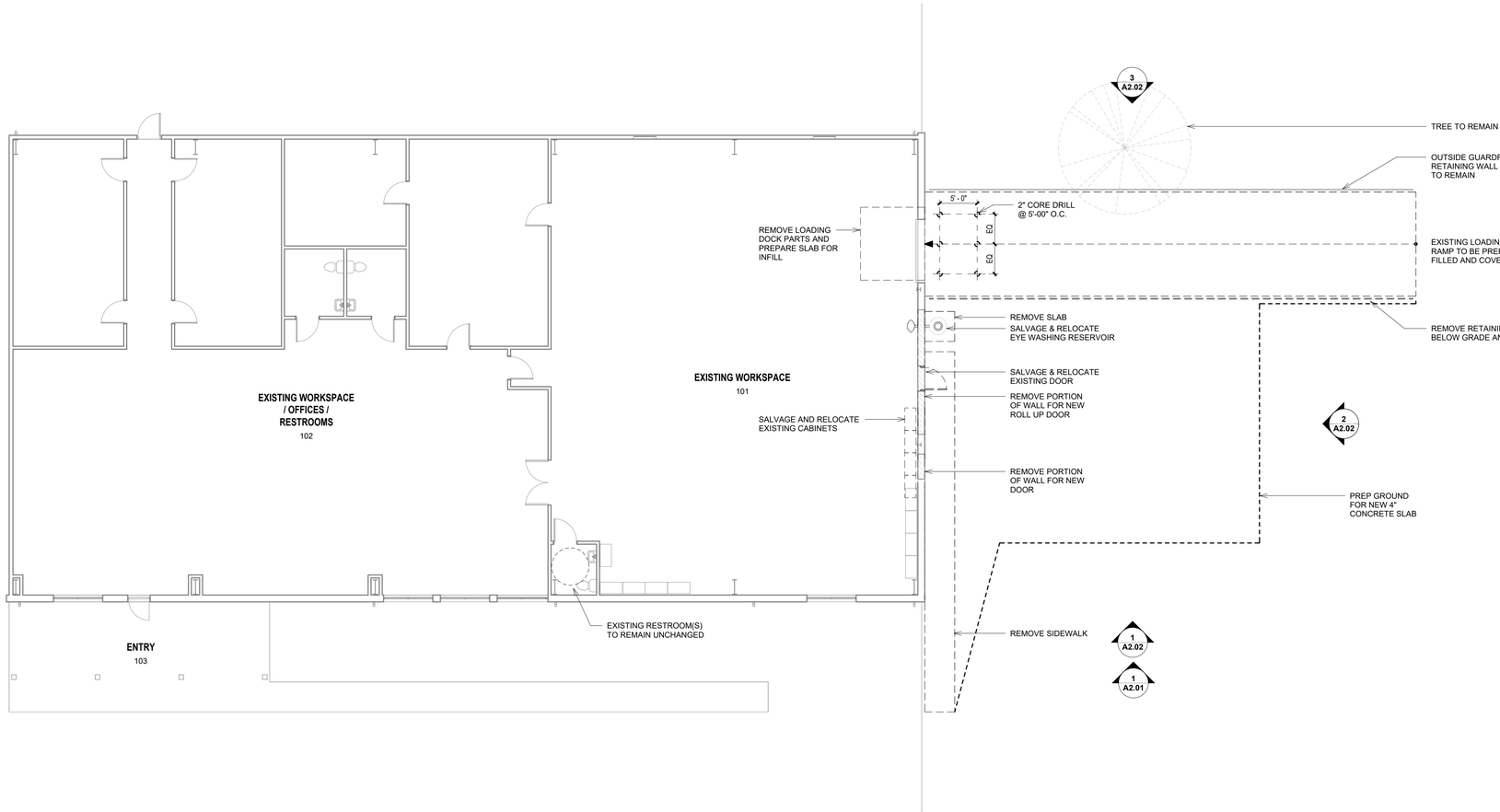

1 **LEVEL 1 FLOOR PLAN**
SCALE 1/8" = 1'-0"

0 4' 8' 16'
0 2'
SCALE 1/8" = 1'-0"

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BUILDING 500 EXTERIOR CANOPY SHELTER
HORRY-GEORGETOWN TECHNICAL COLLEGE
4000 SOUTH FRASER STREET
GEORGETOWN, SC 29440

EXISTING FLOOR PLAN

PREPARED FOR:
HORRY-GEORGETOWN TECHNICAL COLLEGE
BOAT BUILDING

PROJECT #:	241006
DATE:	05/13/2024
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DESIGNED BY:	SS
DRAWN BY:	RP
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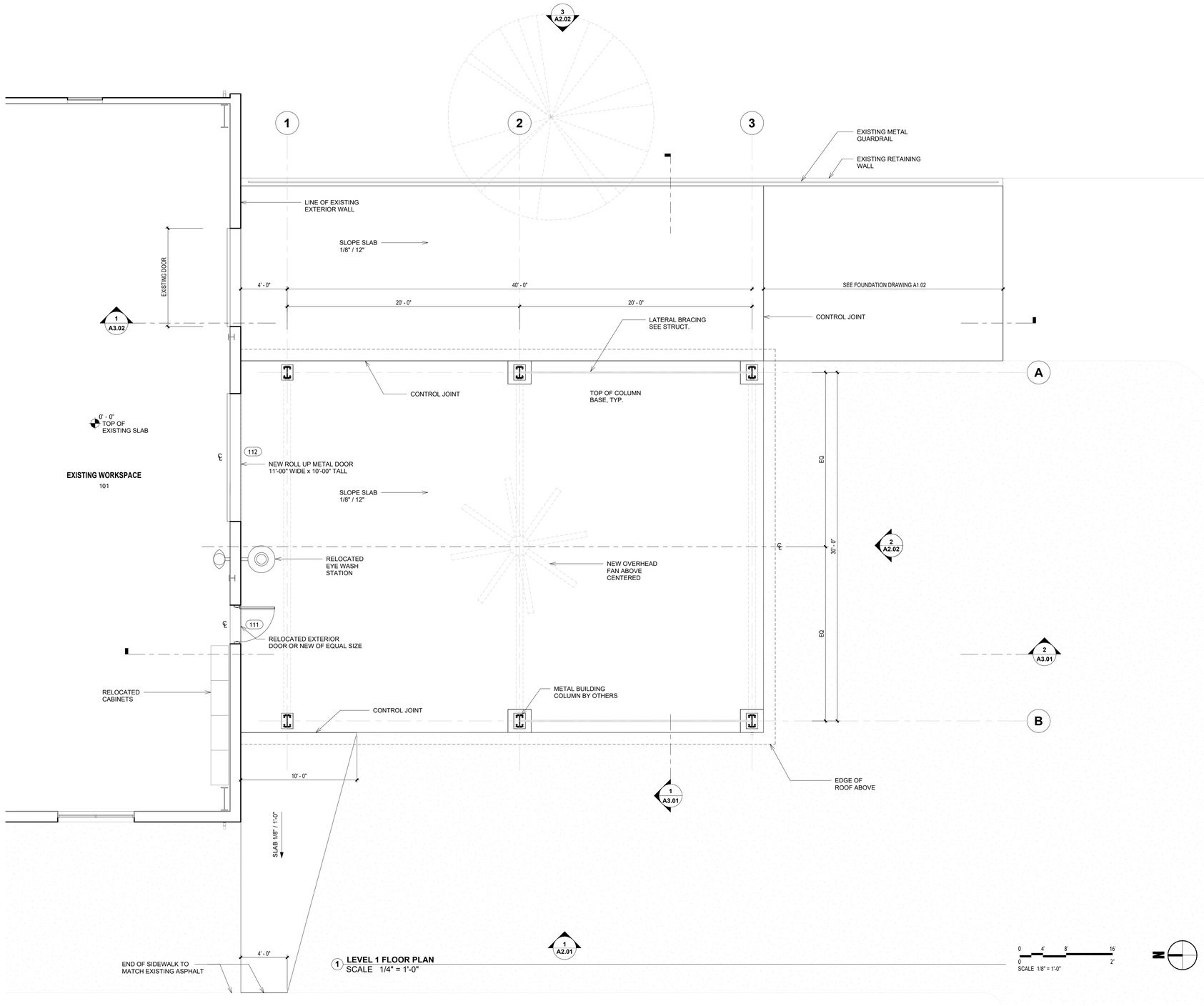

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BUILDING 500 EXTERIOR CANOPY SHELTER

HORRY-GEORGETOWN TECHNICAL COLLEGE
4000 SOUTH FRASER STREET
GEORGETOWN, SC 29440

PROPOSED FLOOR PLAN

PREPARED FOR:
HORRY-GEORGETOWN TECHNICAL COLLEGE
BOAT BUILDING

PROJECT #:	241006
DATE:	05/13/2024
SCALE:	AS NOTED
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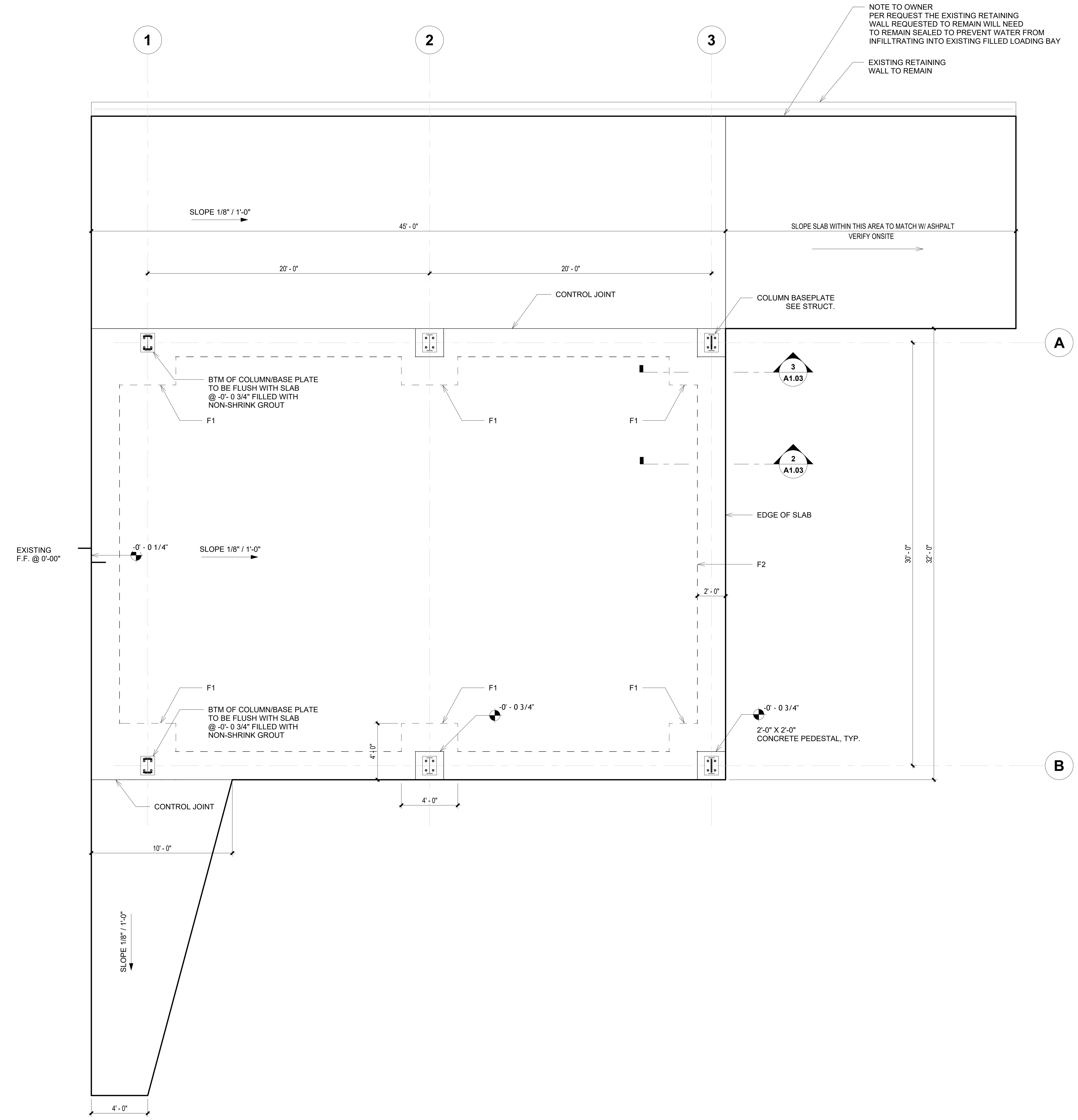
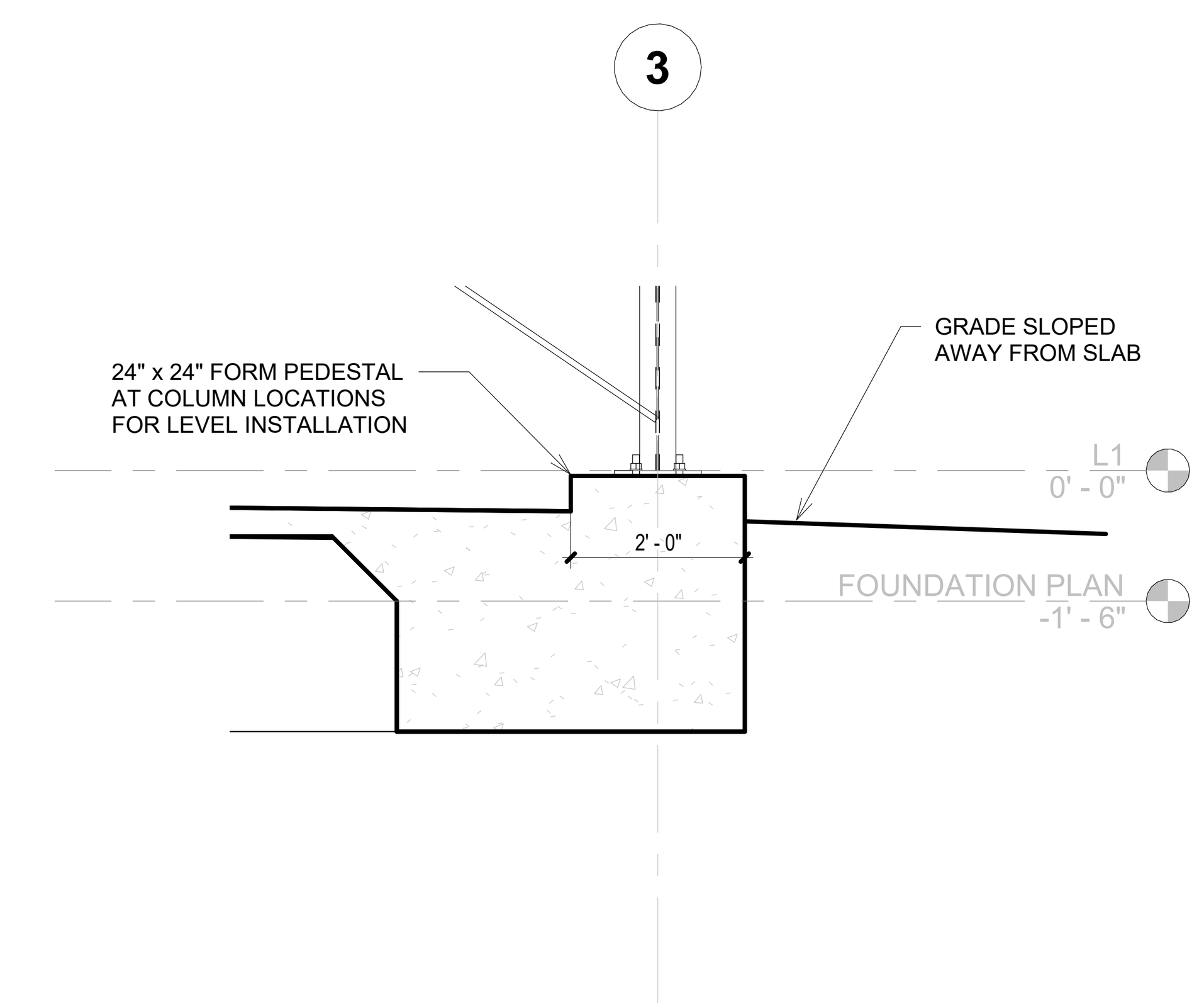
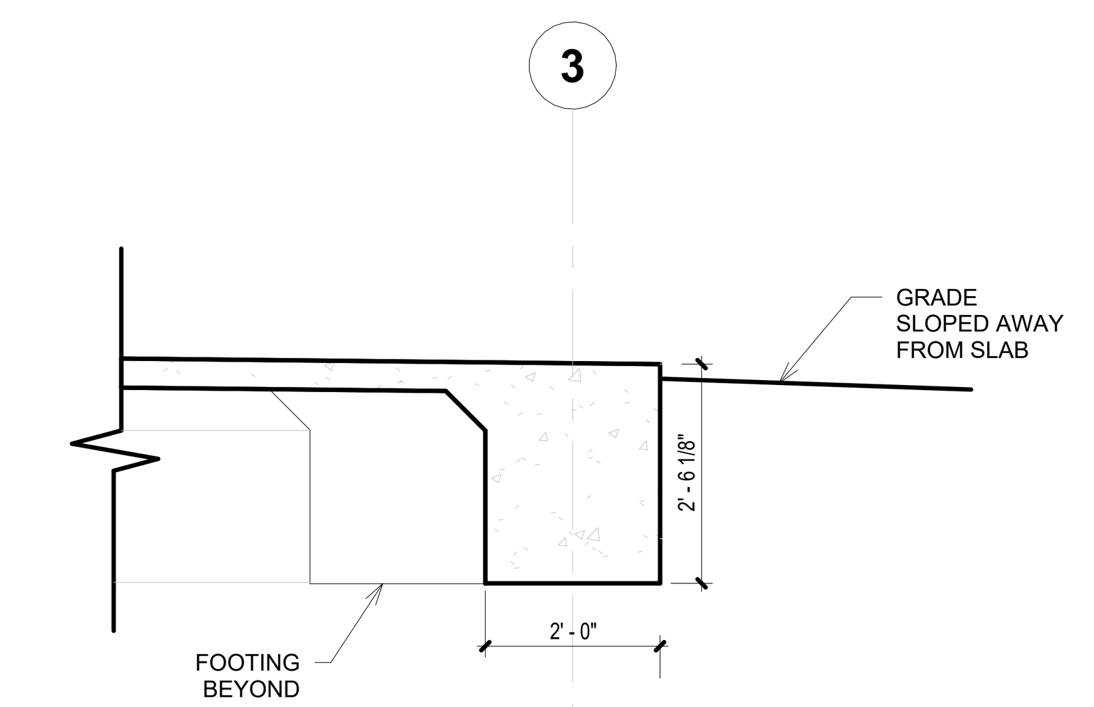

1
2
3
NOTE TO OWNER
PER REQUEST THE EXISTING RETAINING WALL REQUESTED TO REMAIN WILL NEED TO REMAIN SEALED TO PREVENT WATER FROM INFILLTRATING INTO EXISTING FILLED LOADING BAY
EXISTING RETAINING WALL TO REMAIN
SLOPE 1/8" / 1'-0"
45' - 0"
SLOPE SLAB WITHIN THIS AREA TO MATCH W/ ASHPALT VERIFY ONSITE
20' - 0"
20' - 0"
CONTROL JOINT
COLUMN BASEPLATE SEE STRUCT.
A
BTM OF COLUMN/BASE PLATE TO BE FLUSH WITH SLAB @ -0'- 0 3/4" FILLED WITH NON-SHRINK GROUT
F1
3 A1.03
2 A1.03
EDGE OF SLAB
EXISTING F.F. @ 0'-00"
-0' - 0 1/4"
SLOPE 1/8" / 1'-0"
F2
2' - 0"
30' - 0"
32' - 0"
-0' - 0 3/4"
2'-0" X 2'-0" CONCRETE PEDESTAL, TYP.
4' - 0"
B
CONTROL JOINT
10' - 0"
SLOPE 1/8" / 1'-0"
4' - 0"

1 First Floor Structural Framing Plan
SCALE 1/4" = 1'-0"



3 F1 FOOTING SECTION
SCALE 1/2" = 1'-0"



2 F2 PERIMETER FOOTING SECTION
SCALE 1/2" = 1'-0"

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BUILDING 500 EXTERIOR CANOPY SHELTER

HORRY-GEORGETOWN TECHNICAL COLLEGE

PROPOSED FOUNDATION PLAN

PREPARED FOR:
HORRY-GEORGETOWN TECHNICAL COLLEGE

PROJECT #:	241006
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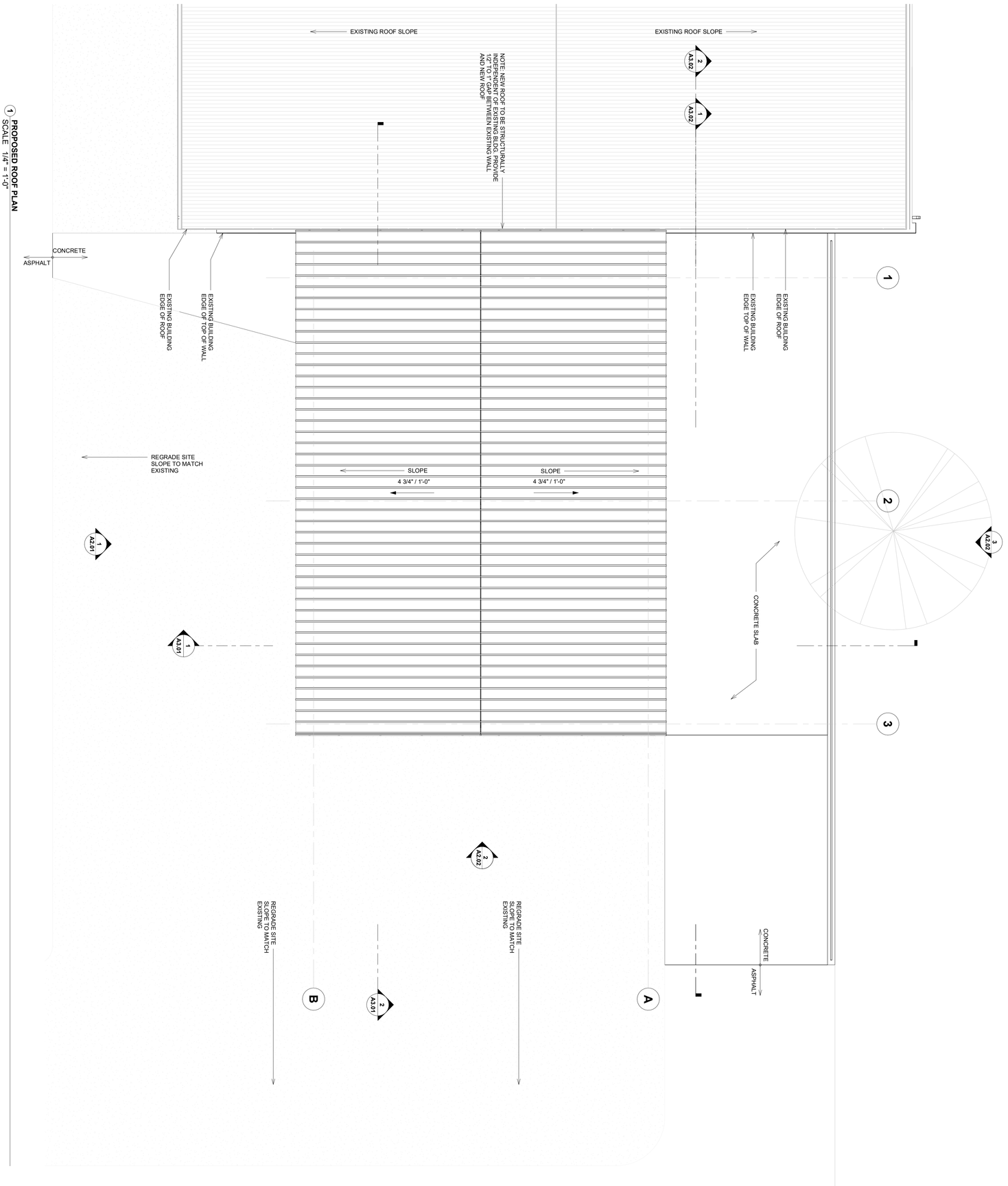

1 PROPOSED ROOF PLAN
SCALE 1/4" = 1'-0"

A1.04

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BUILDING 500 EXTERIOR CANOPY SHELTER

HORRY-GEORGETOWN TECHNICAL COLLEGE
4005 SOUTH FRASER STREET
GEORGETOWN, SC 29440

PROPOSED ROOF PLAN

PREPARED FOR:
HORRY-GEORGETOWN TECHNICAL COLLEGE
BOAT BUILDING

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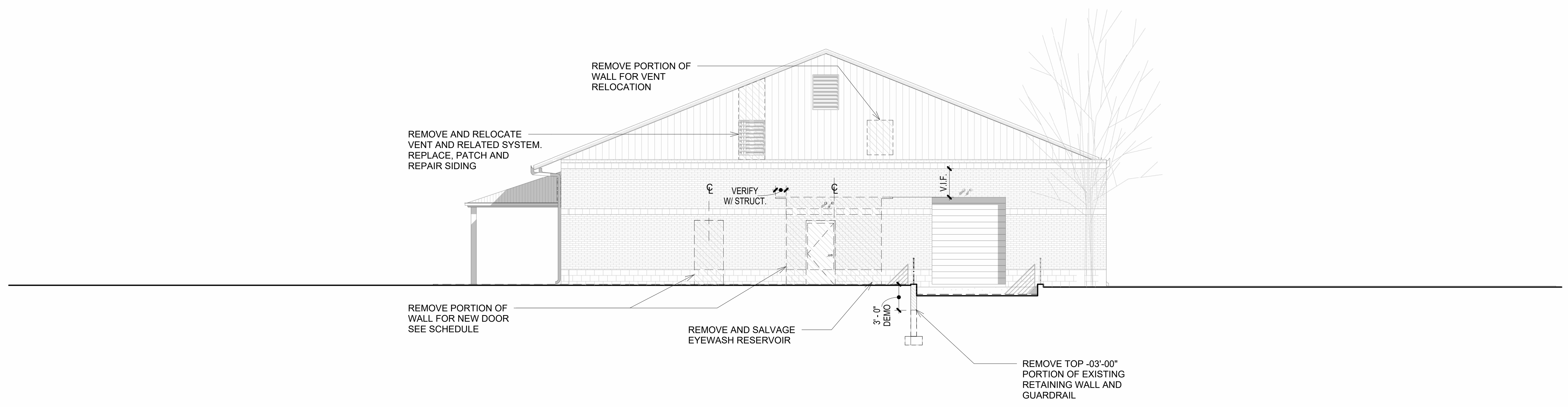
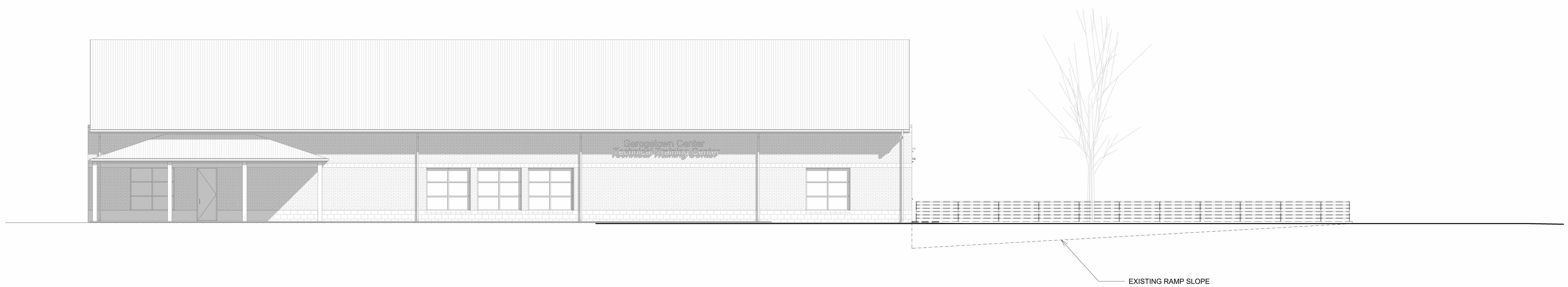
EXTERIOR MATERIAL LEGEND
1 - BRICK / STONEWORK
2 - CORRUGATED METAL SIDING
3 - BRICK / STONEWORK SOLDIER COURSE
4 - BRICK / STONEWORK SOLDIER COURSE
5 - ROLL UP METAL DOORS



2 **EAST ELEVATION**
SCALE 1/8" = 1'-0"



1 **SOUTH ELEVATION**
SCALE 1/8" = 1'-0"

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BUILDING 500 EXTERIOR CANOPY SHELTER
HORRY-GEORGETOWN TECHNICAL COLLEGE
4003 SOUTH FRASER STREET
GEORGETOWN, SC 29440

EXISTING EXTERIOR ELEVATIONS

PREPARED FOR:
HORRY-GEORGETOWN TECHNICAL COLLEGE

PROJECT #:	241006
DATE:	05/13/2024
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DRAWN BY:	RP
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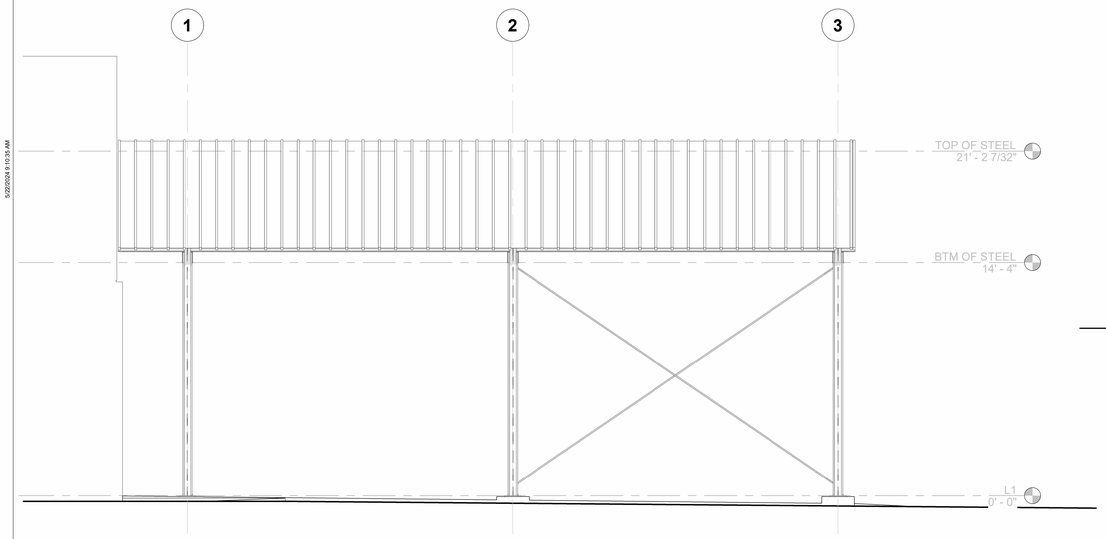
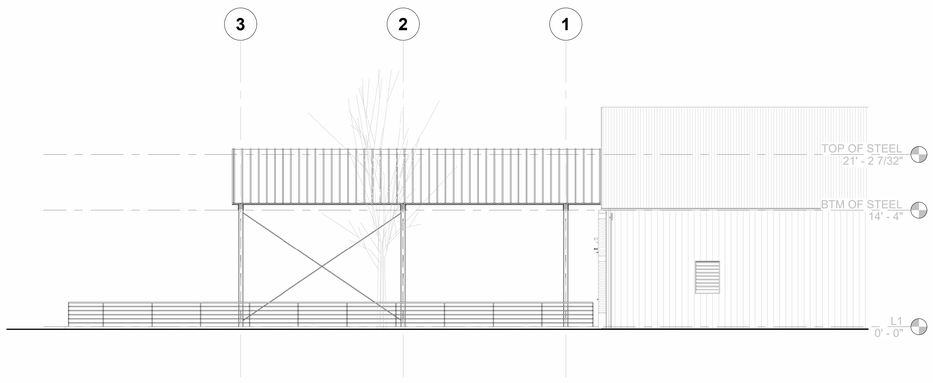
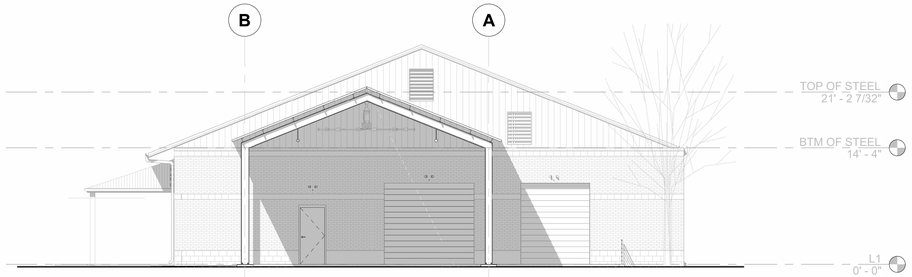


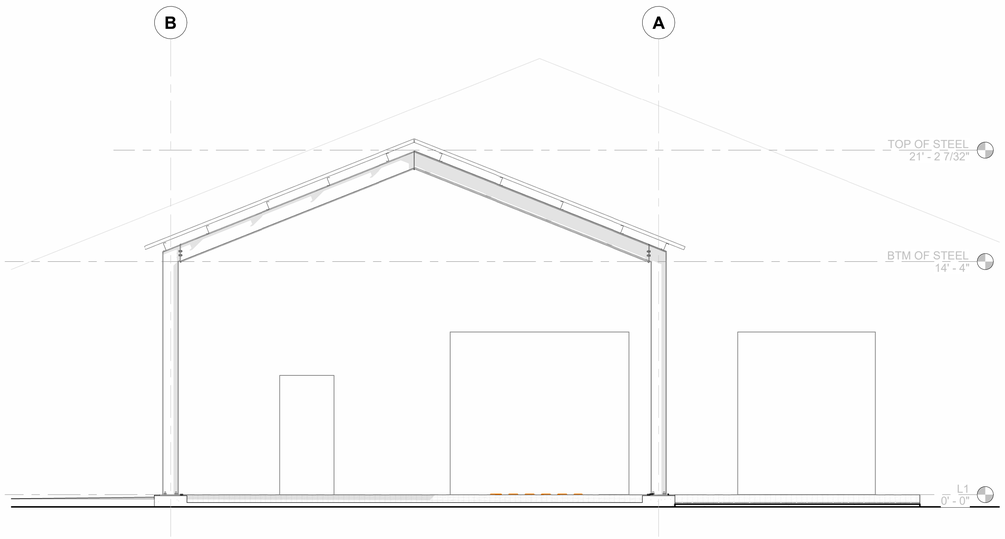
5 SOUTH BUILDING FRAME ELEVATION
SCALE 1/4" = 1'-0"



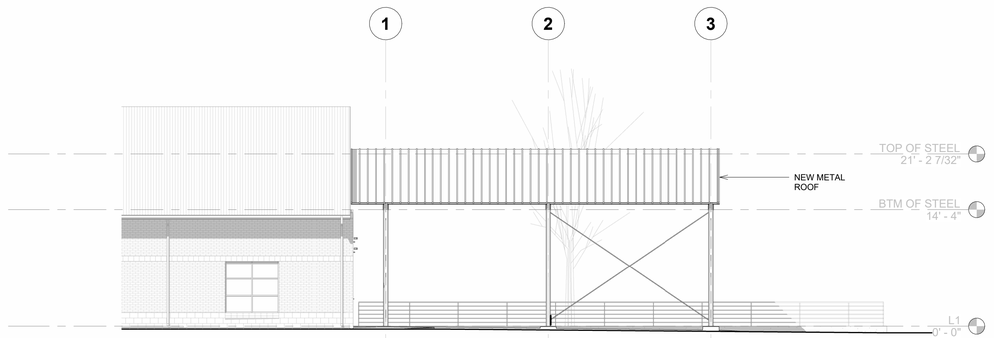
3 NORTH ELEVATION
SCALE 1/8" = 1'-0"



2 EAST ELEVATION
SCALE 1/8" = 1'-0"



4 EAST BUILDING FRAME ELEVATION
SCALE 1/4" = 1'-0"



1 SOUTH ELEVATION
SCALE 1/8" = 1'-0"

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BUILDING 500 EXTERIOR CANOPY SHELTER
HORRY-GEORGETOWN TECHNICAL COLLEGE
2050 HIGHMARKET STREET
GEORGETOWN, SC 29440

PROPOSED EXTERIOR ELEVATIONS

PREPARED FOR:
HORRY-GEORGETOWN TECHNICAL COLLEGE
BOAT BUILDING

PROJECT #:	241006
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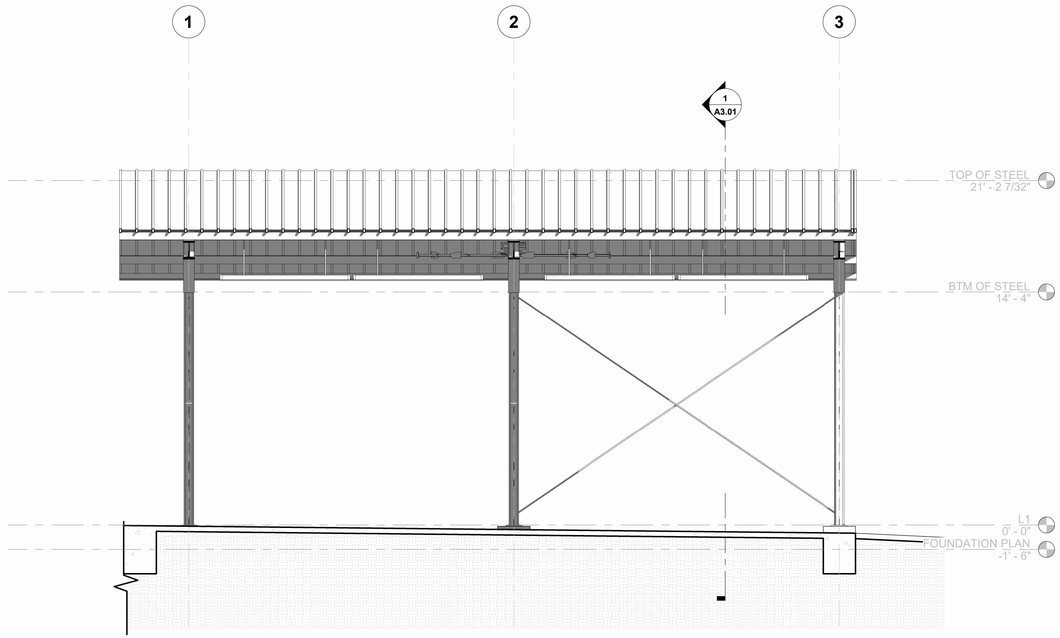

2 PROPOSED LONGITUDINAL SECTION
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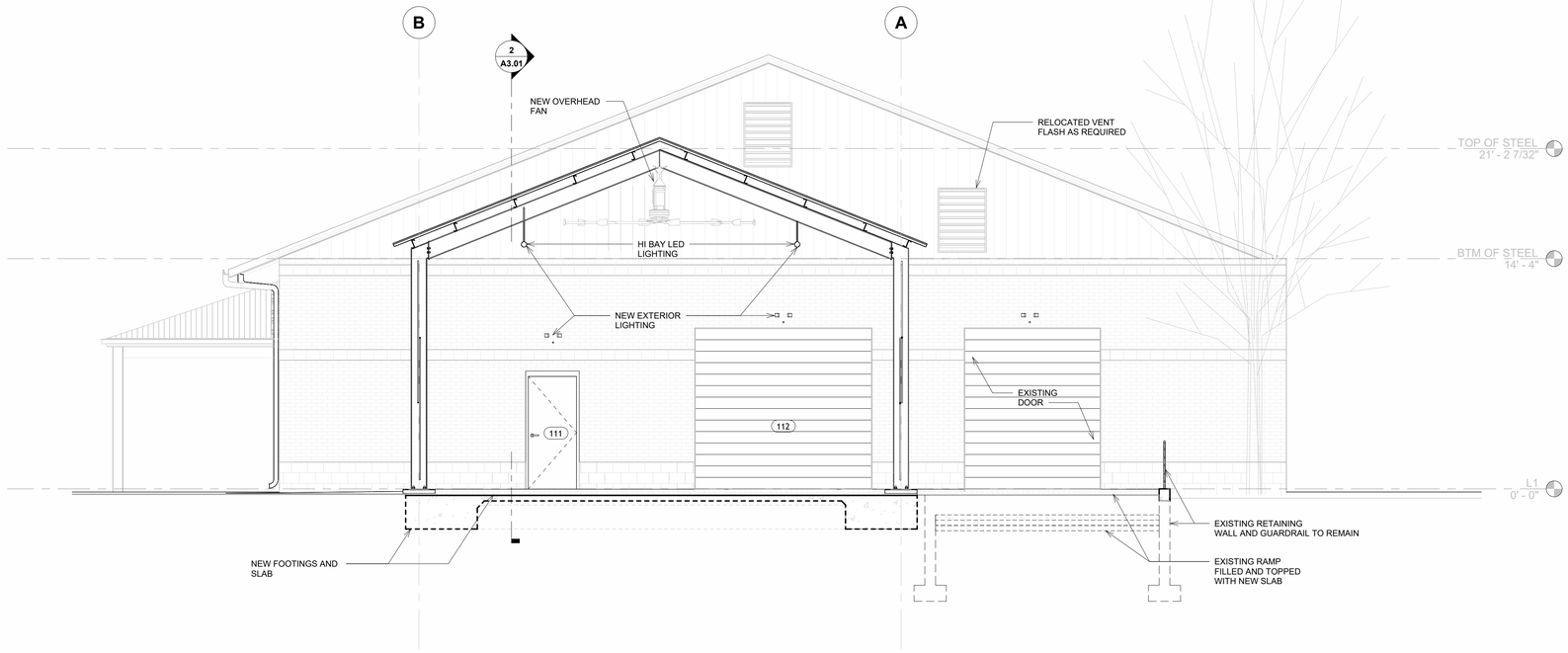

1 PROPOSED BUILDING SECTION
SCALE 1/4" = 1'-0"

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BUILDING 500 EXTERIOR CANOPY SHELTER
HORRY-GEORGETOWN TECHNICAL COLLEGE
4000 ENTERPRISE COURT
GEORGETOWN, SC 29440

BUILDING SECTIONS

PREPARED FOR:
HORRY-GEORGETOWN TECHNICAL COLLEGE
BOAT BUILDING

PROJECT #:	241006
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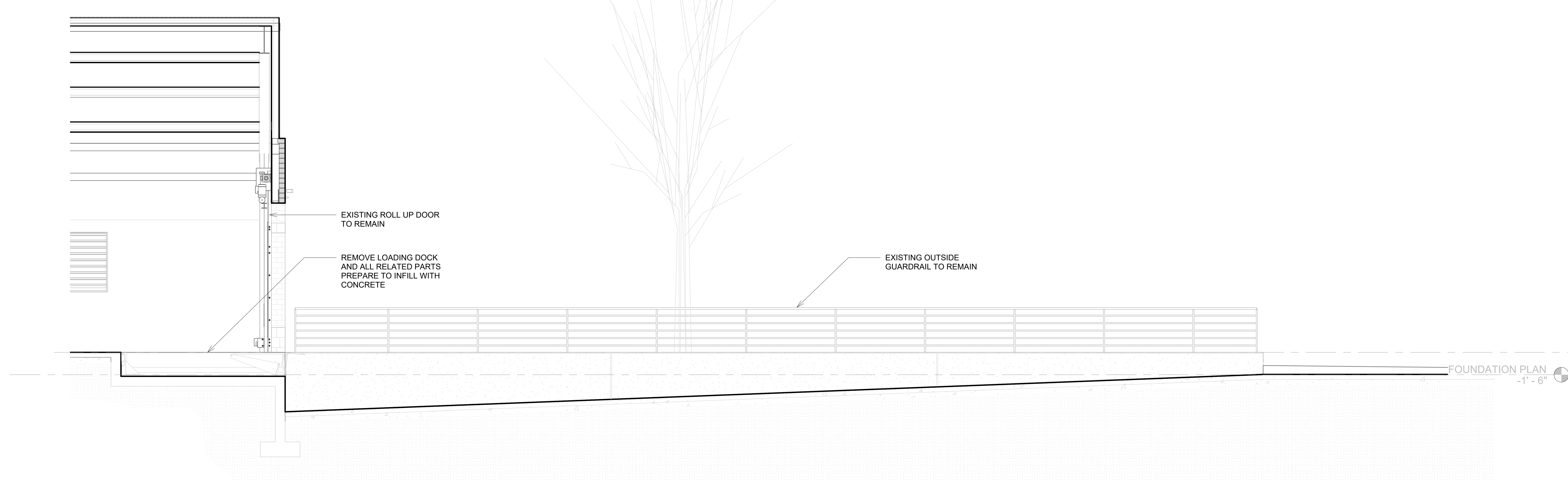

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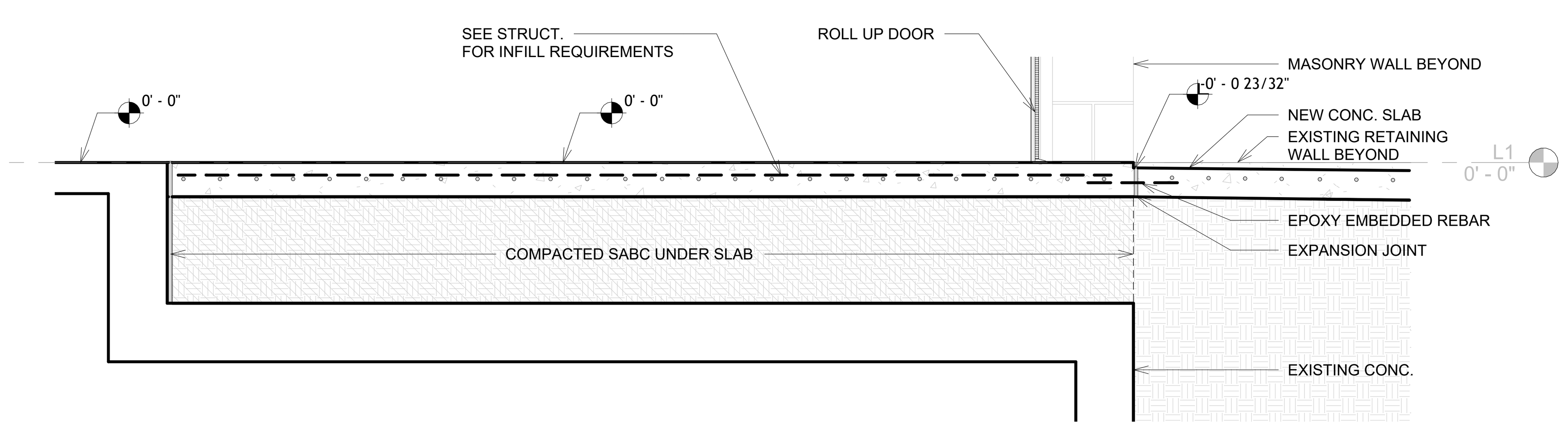
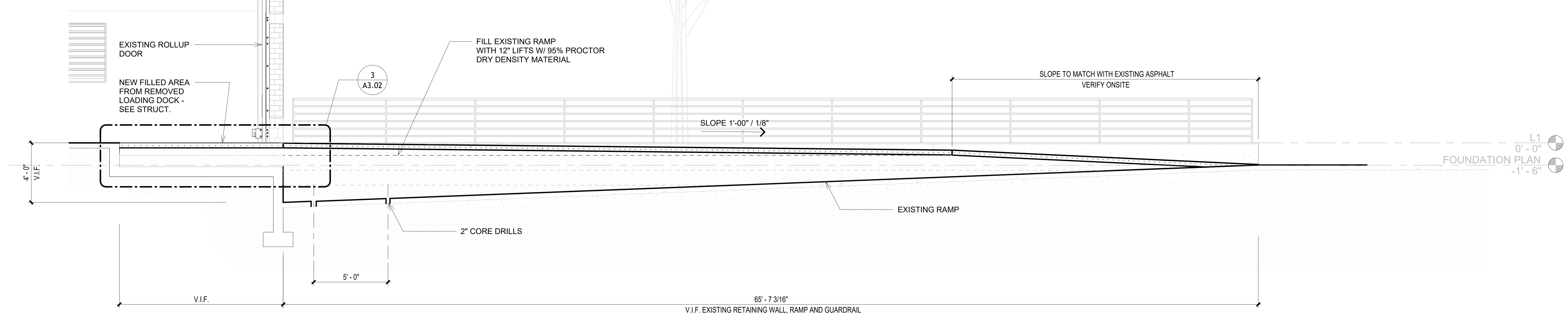


3 LOADING DOCK INFILL AND RAMP JOINT DETAIL
SCALE 3/4" = 1'-0"



1 PROPOSED RAMP SECTION
SCALE 1/4" = 1'-0"

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BUILDING 500 EXTERIOR CANOPY SHELTER

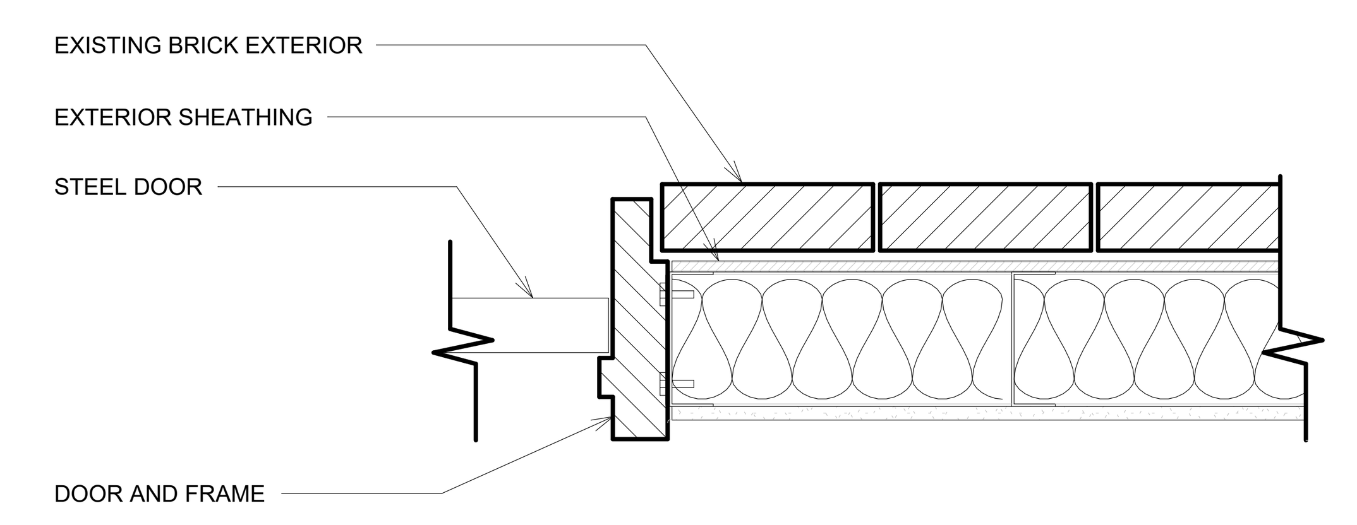
HORRY-GEORGETOWN TECHNICAL COLLEGE
4003 SOUTH FRASER STREET
GEORGETOWN, SC 29440

BUILDING SECTIONS

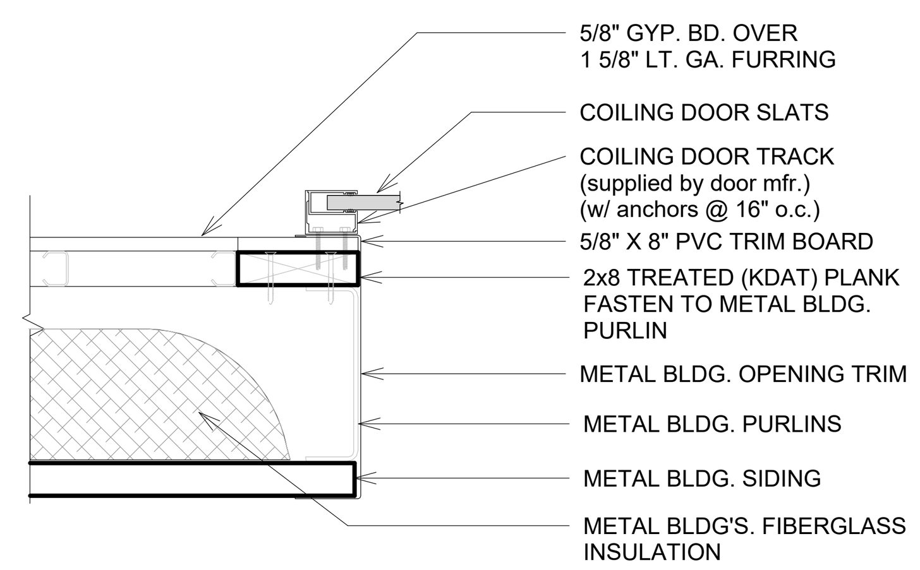
PREPARED FOR:
HORRY-GEORGETOWN TECHNICAL COLLEGE
BOAT BUILDING

PROJECT #:	241006
DATE:	05/13/2024
SCALE:	AS NOTED
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

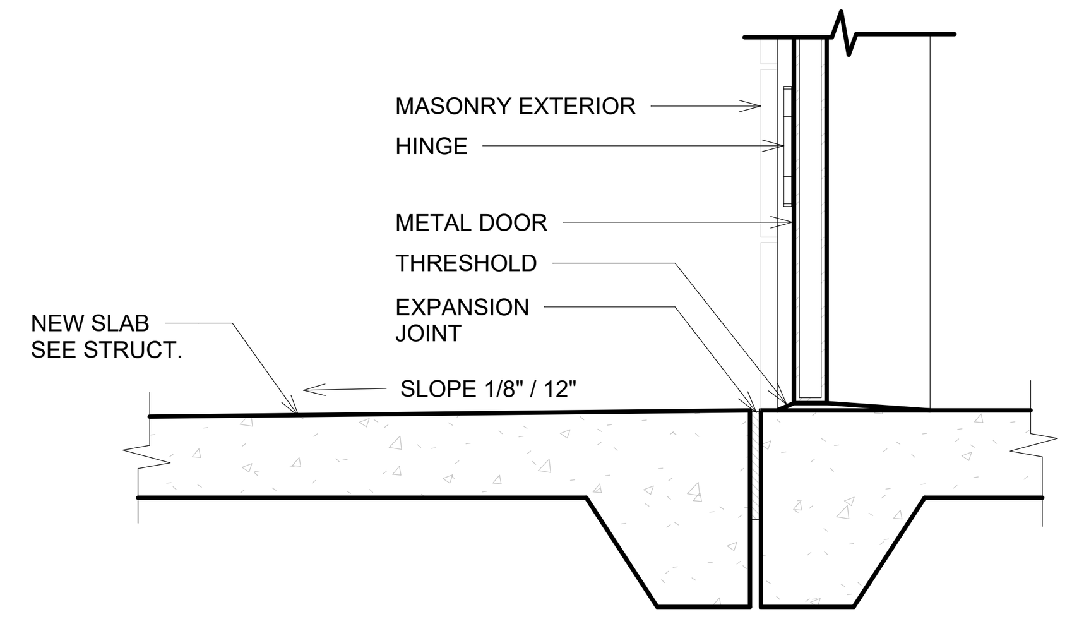
A3.02



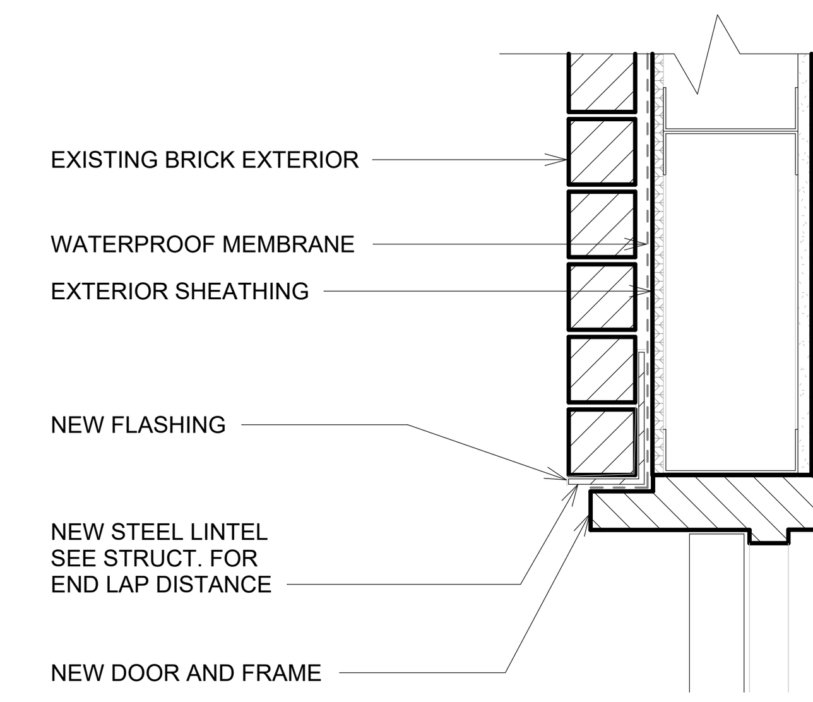
2 **MAN DOOR JAMB DETAIL**
SCALE 1 1/2" = 1'-0"



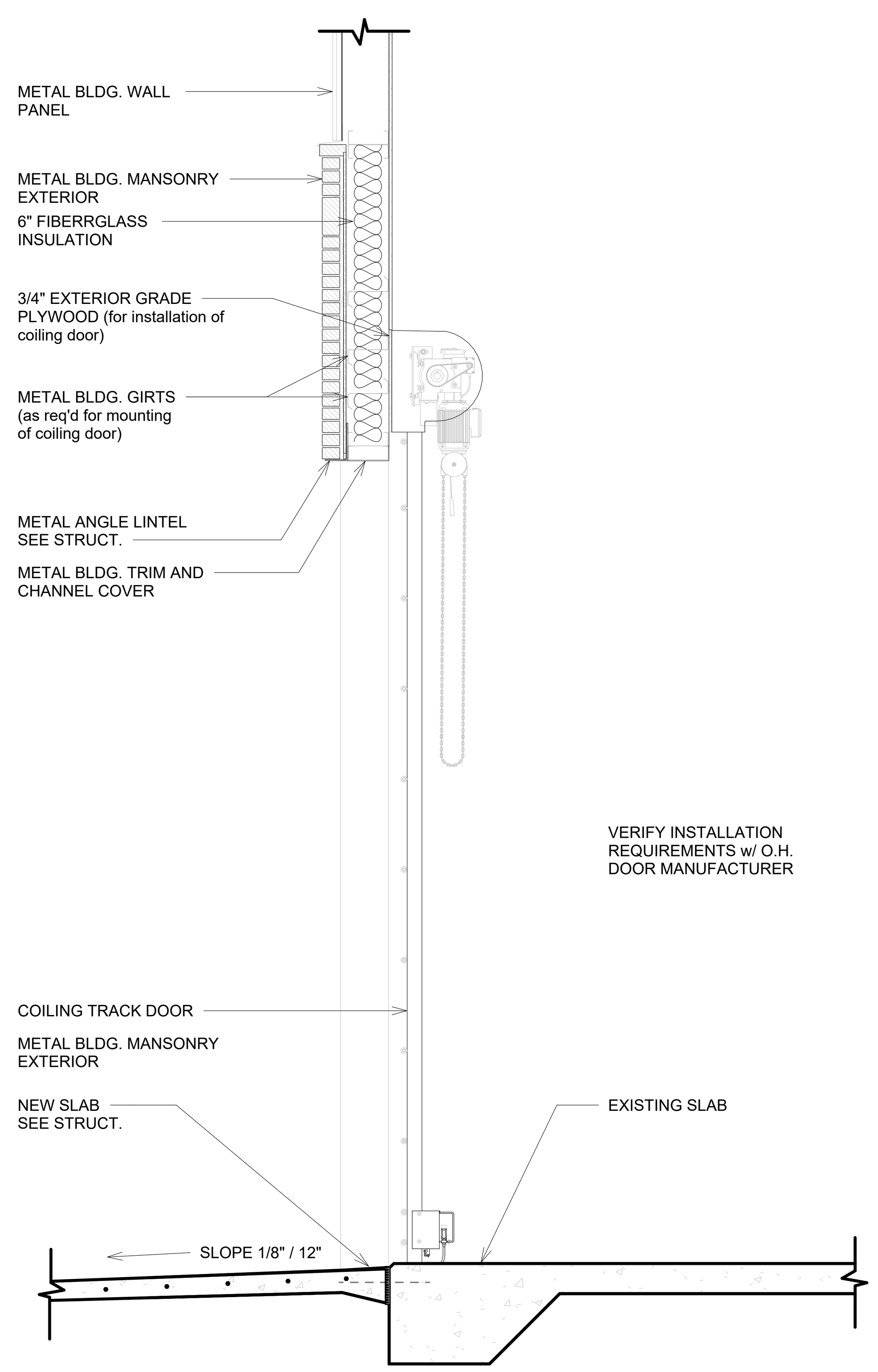
5 **ROLL UP JAMB DETAIL**
SCALE 1 1/2" = 1'-0"



3 **MAN DOOR SILL DETAIL**
SCALE 1 1/2" = 1'-0"



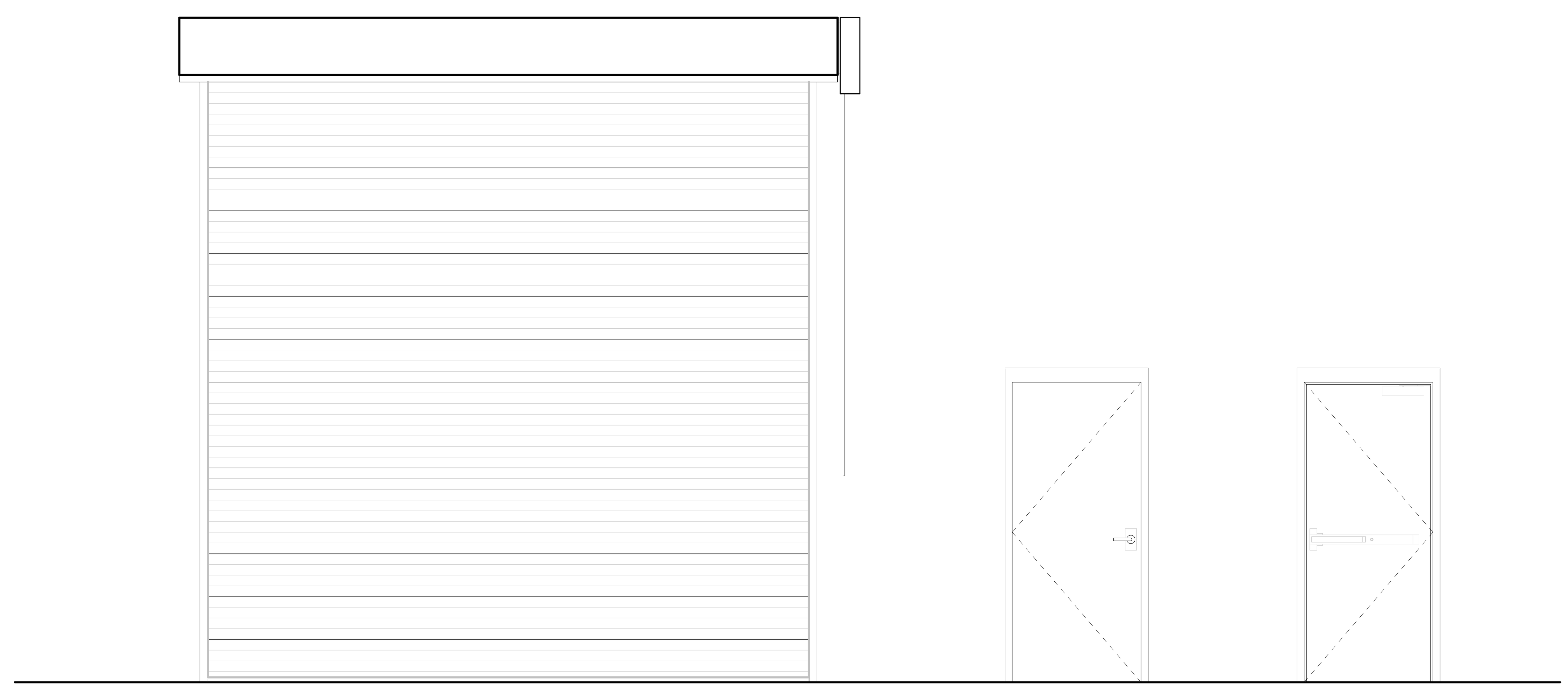
1 **MAN DOOR HEAD DETAIL**
SCALE 1 1/2" = 1'-0"



4 **ROLL UP DOOR HEAD DETAIL**
SCALE 1/2" = 1'-0"

DOOR SCHEDULE

Door						Frame							Hardware		
	Size														
Mark	Width	Height	Thickness	Material	Finish	Material	Type	Finish	Head	Jamb	Sill	Fire Rating Label	Set No.	From Room: Number	Comments
111	3' - 0"	7' - 0"	0' - 1 3/4"	METAL	PAINTED	METAL	EXISTING DOOR		1/A6.01	2/A6.01	3/A6.01	YES		101	RELOCATED EXISTING DOOR
112	11' - 0"	10' - 0"	0' - 3"	METAL	PAINTED	METAL	MODEL 620	PAINTED	4/A6.01	5/A6.01	SEE MANUF.	YES		101	CONTACT PAUL SHOOP pshoop@ohdgs.com



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

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NO.	DATE	DESCRIPTION	BY
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BUILDING 500 EXTERIOR CANOPY SHELTER

HORRY-GEORGETOWN TECHNICAL COLLEGE
4003 SOUTH FRASER STREET
GEORGETOWN, SC 29440

DOOR SCHEDULE & DETAILS

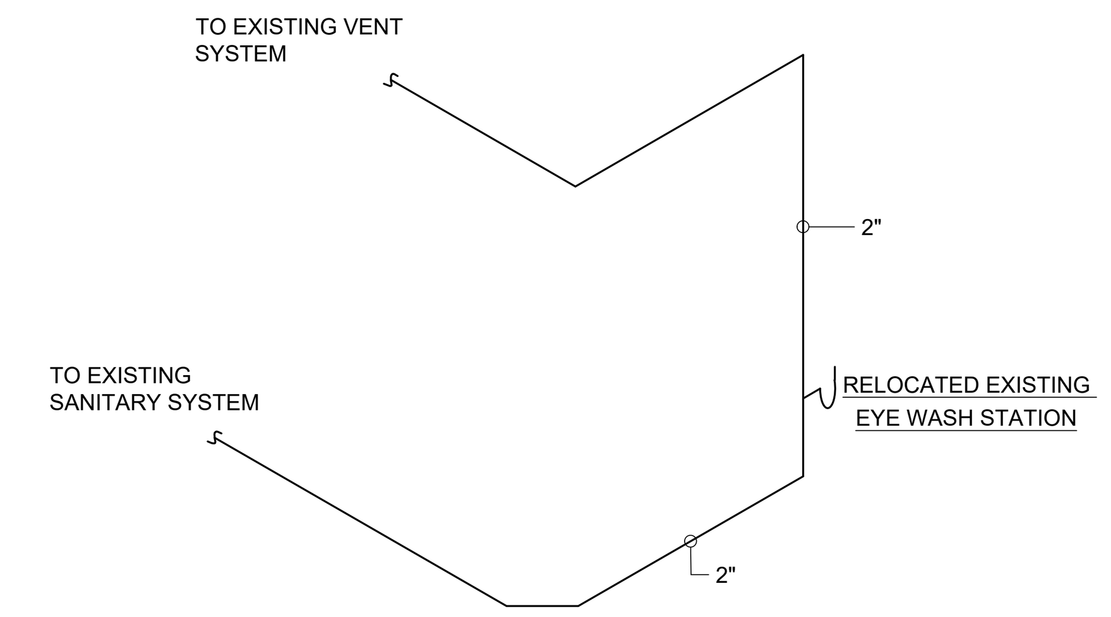
PREPARED FOR:
HORRY-GEORGETOWN TECHNICAL COLLEGE
BOAT BUILDING

PROJECT #:	241006
DATE:	05/13/2024
SCALE:	AS NOTED
DESIGNED BY:	SS
DRAWN BY:	RP
CHECKED BY:	SS

A6.01

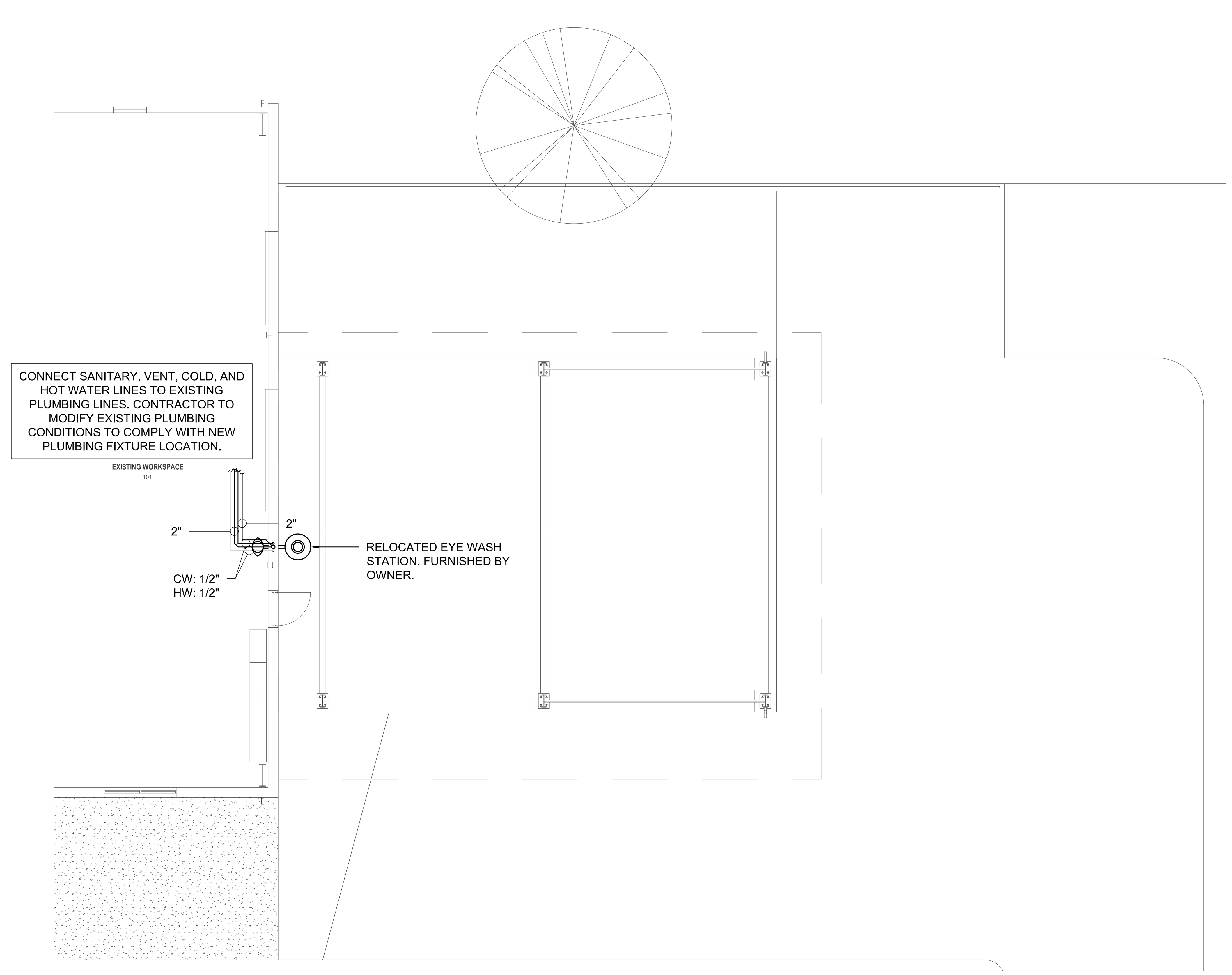
PLUMBING NOTES:

1. ALL WORK SHALL BE EXECUTED AND INSPECTED IN ACCORDANCE WITH ALL LOCAL OR STATE CODES, LAWS, ORDINANCES, RULES AND REGULATIONS APPLICABLE TO THE PARTICULAR CLASS OF WORK. IF, TO THE KNOWLEDGE OF THE CONTRACTOR, THE DRAWINGS AND SPECIFICATIONS ARE IN CONFLICT WITH THE ABOVE, HE SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING SO THAT ANY NECESSARY CHANGES CAN BE PROVIDED FOR IN HIS CONTRACT. IF THE CONTRACTOR PERFORMS ANY WORK WITHOUT NOTICE AS REQUIRED, HE SHALL BEAR ALL COSTS OF CORRECTIVE ACTION.
2. THE CONTRACTOR SHALL INCLUDE IN HIS QUOTATION ALL APPLICABLE SERVICE CHARGES, FEES, PERMITS, ROYALTIES, AND OTHER SIMILAR COSTS IN CONNECTION WITH THE WORK. OBTAIN PERMITS, AND REQUEST INSPECTIONS FROM AUTHORITY HAVING JURISDICTION.
3. INSTALL WORK IN LOCATIONS SHOWN ON DRAWINGS, UNLESS PREVENTED BY PROJECT CONDITIONS. FOR PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC, AND ALTHOUGH SIZE AND LOCATION OF EQUIPMENT ARE DRAWN TO SCALE WHENEVER POSSIBLE, THE CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACT DOCUMENTS AND SHALL VERIFY THIS INFORMATION AT THE SITE.
4. THE DRAWINGS INDICATE REQUIRED SIZE AND POINTS OF TERMINATION OF PIPES AND DUCTS, AND SUGGEST PROPER ROUTES OF PIPE TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS AND PRESERVE CLEARANCES. HOWEVER, IT IS NOT INTENDED THAT DRAWINGS INDICATE ALL NECESSARY OFFSETS, AND IT SHALL BE THE WORK OF THIS SECTION TO INSTALL PIPING AND DUCTS IN SUCH A MANNER AS TO CONFORM TO STRUCTURE, AVOID ALL OBSTRUCTIONS, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR WITHOUT FURTHER INSTRUCTION OR COST TO THE OWNER.
5. CONTRACTOR SHALL GUARANTEE ALL WORK PERFORMED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF WITNESSED AND APPROVED STARTUP.
6. TRANSPORT AND HANDLE PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
7. STORE AND PROTECT PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, WITH SEALS AND LABELS INTACT AND LEGIBLE.
8. VERIFY THAT EACH PIECE OF EQUIPMENT OR SYSTEM HAS BEEN CHECKED FOR PROPER LUBRICATION, DRIVE ROTATION, BELT TENSION, CONTROL SEQUENCE, OR FOR OTHER CONDITIONS WHICH MAY CAUSE DAMAGE.
9. DEMONSTRATE OPERATION AND MAINTENANCE OF PRODUCTS TO OWNER'S PERSONNEL ONE WEEK PRIOR TO DATE OF FINAL INSPECTION.
10. EXECUTE FINAL CLEANING PRIOR TO FINAL PROJECT ASSESSMENT.
11. PROVIDE SUPPORT AND EQUIPMENT REQUIRED TO CONTROL EXPANSION AND CONTRACTION OF PIPING. PROVIDE LOOPS, PIPE OFFSETS, AND SWING JOINTS, OR EXPANSION JOINTS WHERE REQUIRED.
12. ALL WATER HEATERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.
13. ELECTRIC WATER HEATER SHALL CONFORM TO THE REQUIREMENTS OF THE 2015 IPC AND 2014 NEC.
14. WATER HEATER IN OVERHEAD OR ATTIC SHALL BE PROVIDED WITH AN OPENING LARGE ENOUGH TO ALLOW THE REMOVAL OF WATER HEATER (NOT LESS THAN 30" HIGH X 22" WIDE).
15. ALL DISCHARGE FROM THE RELIEF VALVE SHALL BE PIPED FULL-SIZE TO AN OUTSIDE DRAIN OR AN INDIRECT WASTE RECEPTOR LOCATED INSIDE THE BUILDING AT THE WATER HEATER LOCATION (PER IPC 504.6.1)
16. A DRAIN PAN OF 1 1/2" DEEP MINIMUM WILL BE PROVIDED FOR WATER HEATER. ROUTE DRAIN FULL-SIZE TO AN OUTSIDE DRAIN OR AN INDIRECT WASTE RECEPTOR LOCATED INSIDE THE BUILDING.
17. SANITARY DRAIN PIPING SHALL BE SCHEDULE 40 PVC (ASTM F1488) OR SERVICE WEIGHT CAST IRON (ASTM A74). CONFORM TO LOCAL CODE REQUIREMENTS.
18. DOMESTIC WATER PIPING SHALL BE TYPE "L" COPPER (ASTM B88), CPVC (ASTM D2846), PEX (ASTM F877) OR SCHEDULE 40 GALVANIZED STEEL (ASTM A53). UNDERGROUND WATER PIPING SHALL BE TYPE "K" COPPER, PEX (ASTM F876/F877) OR SCHEDULE 40 CPVC (ASTM D2846), AS LOCAL CODES ALLOW. INSULATE DOMESTIC COLD WATER LINES WITH 1/2" THICK FIBERGLASS OR FOAM INSULATION AND HOT WATER LINES WITH 1" THICK FIBERGLASS OR FOAM INSULATION TO PREVENT CONDENSATION ON COPPER OR PVC LINES.
19. BEFORE COMMENCING WORK ON SANITARY SEWER, CHECK INVERTS AND ENSURE THAT THESE CAN BE PROPERLY CONNECTED WITH SLOPE FOR DRAINAGE AND COVER TO AVOID FREEZING.
20. PROVIDE NEW WATER SERVICE COMPLETE WITH REDUCED PRESSURE BACKFLOW PREVENTOR.
21. PROVIDE NON-CONDUCTING DIELECTRIC CONNECTIONS WHEREVER JOINTING DISSIMILAR METALS.
22. PROVIDE ACCESSIBLE STOPS IN PIPING CONNECTIONS TO ALL PLUMBING FIXTURES.
23. ASSURE EXTERIOR WALL CHASES ARE INSULATED TO PREVENT FREEZING.
24. PROVIDE INSULATING ADA PLUMBING JACKETS UNDER EACH ADA FIXTURE WITH EXPOSED DRAIN AND WATER PIPING.
25. PROVIDE PIPE LABELS FOR ALL PIPING SYSTEMS.
26. PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS.
27. PROVIDE AND INSTALL SHOCKSTOPS FOR DOMESTIC WATER PIPING SYSTEM. TWO REQUIRED PER BATHROOM UNIT. ONE DCW AND ONE DHW. PROVIDE SHUTOFF VALVE FOR SERVICING SHOCKSTOP.
28. VERIFY FLOOR PLAN AND WALL/FLOOR/CEILING RATINGS WITH ARCHITECTURAL PLANS. PROVIDE RATED PENETRATIONS AT EACH INSTANCE WHERE PLUMBING INSTALLATION PENETRATES A RATED ASSEMBLY. PENETRATIONS SHALL BE PER DETAILS ON THE DRAWINGS OR SOME OTHER U.L. LISTED DESIGN.
29. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS PRIOR TO WORK COMMENCING. COORDINATE WITH OTHER TRADES FOR THE PLACEMENT OF PIPING AND EQUIPMENT.
30. PROVIDE 3/8" DCW CONNECTION TO ICE MAKER, IF APPLICABLE.
31. IF NATURAL GAS IS USED ON PROJECT, NATURAL GAS PIPING SHALL BE SCH. 40 METALLIC PIPE. PAINT PIPING LOCATED OUTDOORS.
32. ALL EQUIPMENT SHALL BE SUBMITTED, WITH DESCRIPTIVE DATA, TO THE DESIGNER FOR APPROVAL OR REJECTION. ALL EQUIPMENT SHALL BE SUBMITTED IN AN INDEXED, BOUND BROCHURE WITH THREE COPIES. ALL ITEMS SHALL BE SUBMITTED AT ONE TIME. PARTIAL PRE-SUBMITTALS WILL BE CONSIDERED ONLY AS AN EXPEDIENCY UPON SPECIAL REQUEST. EACH SUBMITTAL BROCHURE SHALL BE SIGNED, ON THE INDEX PAGE, BY THE CONTRACTOR. THIS SIGNATURE SHALL INDICATE THE CONTRACTOR HAS EXAMINED ALL DATA THEREIN AND FOUND SAME TO BE IN ORDER. ALL ITEMS SUBMITTED THAT ARE NOT AS SUBMITTED SHALL HAVE ANY AND ALL CHARACTERISTICS THAT DIFFER CLEARLY HIGHLIGHTED.



2 SANITARY RISER
Scale: NTS

PLUMBING LEGEND	
(line)	COLD WATER SUPPLY
(line)	HOT WATER SUPPLY



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

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SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER NO. 27391 CHRISTOPHER ... HAMEL

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION THE EARTHWORKS GROUP, INC. NO.C01383

REVISION SCHEDULE

NO.	DATE	DESCRIPTION	BY
1	<DATE>	<PRELIMINARY PLANS>	
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HORRY - GEORGETOWN TECHNICAL COLLEGE
4003 SOUTH FRASER STREET, GEORGETOWN, SC 29440

PLUMBING PLAN

PREPARED FOR:
HORRY - GEORGETOWN TECHNICAL COLLEGE
4003 SOUTH FRASER STREET, GEORGETOWN, SC 29440

PROJECT #:	241006
DATE:	4/22/2024
SCALE:	AS NOTED
DESIGNED BY:	CH
DRAWN BY:	NL
CHECKED BY:	CH

P1.01

GENERAL ELECTRICAL NOTES:

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL ALL MATERIAL AND EQUIPMENT IN A NEAT AND WORKMANLIKE WAY. INSTALLATIONS SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE (NEC), THE NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA), AND ANY OTHER LOCAL CODE HAVING JURISDICTION
2. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND SUPERVISION NECESSARY TO ACCOMPLISH THE WORK AS SHOWN AND NOTED ON THE DRAWINGS. ANY DEVIATION FROM THE DRAWINGS SHALL BE APPROVED BY THE OWNER OR ENGINEER.
3. ALL WORK SHALL BE COORDINATED WITH THE OTHER TRADES.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS.
5. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL HIS TOOLS, DEBRIS, AND GENERAL CLEANUP FROM HIS WORK.
6. THE ELECTRICAL CONTRACTOR SHALL DO ALL CUTTING AND PATCHING OF BUILDING MATERIALS REQUIRED FOR THE INSTALLATION HIS WORK.
7. EXACT MOUNTING HEIGHTS AND LOCATIONS OF ALL NEW POWER OUTLETS, DATA OUTLETS, AND TELEPHONE OUTLETS SHALL BE CONFIRMED WITH OWNER, FURNITURE SUPPLIER, AND ARCHITECT BEFORE ROUGH-IN.
8. ALL EXTERIOR DUPLEX RECEPTACLES SHALL HAVE WATERPROOF COVERS.
9. PROVIDE DISCONNECT AT EXTERIOR HVAC LOCATION. PROVIDE DISCONNECT AT INTERIOR AIR HANDLERS LOCATION.
10. ALL PENETRATIONS IN A FIRE RATED ASSEMBLY MUST MEET IBC 712.3.
11. ALL EXTERIOR ELECTRICAL PANELS AND BOXES TO BE NEMA 3R.
12. ALL EXTERIOR LIGHTING TO BE APPROVED FOR DAMP LOCATIONS.
13. FOR CLEAN POWER SYSTEMS FOR COMPUTERS AND ALL OTHER SENSITIVE ELECTRONIC SYSTEMS OR DEVICES REQUIRING A CLEAN GROUND AS INDICATED ON PLAN, PROVIDE A SEPARATE INSULATED GROUNDING CONDUCTOR IN EACH CONDUIT. GROUND TO BE #12 MINIMUM OR AS SHOWN ON DRAWINGS. GROUND AT CLEAN PANEL GROUND ONLY, NOT TO BUILDING STRUCTURE OR THE CONDUIT SYSTEM. PROVIDE ISOLATED/ INSULATED GROUND BUS IN THE DESIGNATED PANEL(S). COMPUTER RECEPTACLES SHALL BE 2 POLE, 3 WIRE, 115 VOLTS, 20 AMPERES. THE GROUND MUST BE INSULATED FROM THE MOUNTING HARDWARE.
14. ALL RACEWAYS SHALL BE RUN CONCEALED IN CEILING, WALLS OR FLOOR SLABS. ALL EXPOSED CONDUIT TO BE METAL CONDUIT. ALL UNDERGROUND, PVC CONDUIT TO BE SCHEDULE 40 MIN.
15. IN GENERAL, CONDUIT RUNS BETWEEN PULL BOXES SHALL NOT EXCEED THE EQUIVALENT OF TWO 90 DEGREE BENDS AND IN NO CASE EXCEED THREE EQUIVALENT 90 DEGREE BENDS. IN LONG STRAIGHT CONDUIT RUNS LOCATE PULL BOXES AT 100 FOOT INTERVALS. INSTALL ELECTRICAL BOXES AS SHOWN ON DRAWINGS, AND AS REQUIRED FOR SPLICES, TAPS, WIRE PULLING, EQUIPMENT CONNECTIONS, AND REGULATORY REQUIREMENTS. USE CAST BOXES IN MANHOLE AND IN OUTSIDE LOCATIONS.
16. ALL CONDUCTORS TO BE SOFT DRAWN COPPER WITH 600 VOLT INSULATION MINIMUM SIZE TO BE #12 AWG. WIRE SIZED #10 AWG AND SMALLER SHALL BE SOLID COPPER WITH TYPE 'THWN' OR 'THHN' INSULATION. CABLE SIZED #8 AND LARGER SHALL BE STRANDED COPPER WITH TYPE 'THWN' OR 'XHHW' INSULATION EXCEPT WHERE NOTED OTHERWISE. ALL WIRING SHALL BE INSTALLED IN CONDUIT. COMPLETELY SWAB RACEWAYS BEFORE INSTALLING CONDUCTORS.
17. PROVIDE CONNECTIONS TO ALL EQUIPMENT, MOTORS, ETC. FURNISHED BY OTHERS TO MAKE A COMPLETE, WORKING INSTALLATION.
18. INSTALL WIRE MARKERS ON EACH CONDUCTOR IN PANEL BOARD GUTTERS. PULL BOXES, OUTLET, AND JUNCTION BOXES, AND AT LOAD CONNECTIONS.
   A. USE BRANCH CIRCUIT OR FEEDER NUMBER TO IDENTIFY POWER AND LIGHTING CIRCUITS.
   B. USE CONTROL WIRE NUMBER AS INDICATED ON SCHEMATIC AND INTERCONNECTION DIAGRAMS TO IDENTIFY CONTROL WIRING.
19. PROVIDE A TYPEWRITTEN PANEL SCHEDULE FOR EACH PANEL USED IN THIS PROJECT.
20. PROVIDE DUCT DETECTOR, AIR HANDLER SHUTDOWN, AND INDICATION PER LOCAL CODES AND NFPA 90A.
21. ALL EMERGENCY AND EXIT LIGHTS SHALL HAVE BATTERY BACKUP AND BE ON LIGHTING CIRCUIT OF AREA SERVED AND WIRED AHEAD OF ANY FIXTURES OR CONTROLS
22. WHEN INSTALLING LIGHT FIXTURES IN AN INSULATED CEILING, PROVIDE A WIRE CAGE OVER THE FIXTURE TO KEEP INSTALLATION 6" OFF THE FIXTURE.
23. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL NECESSARY TESTS TO INSURE THAT THE ENTIRE INSTALLATION IS FREE FROM IMPROPER GROUNDS AND FROM SHORTED AND/OR OPEN CIRCUITS. VOLTAGE AND CURRENT TESTS SHALL BE MADE BEFORE ANY CIRCUITS ARE PLACED IN OPERATION.
24. IT IS THE INTENT OF THIS SPECIFICATION FOR THE CONTRACTOR TO PROVIDE A COMPLETE AND OPERABLE ELECTRICAL SYSTEM WITHOUT ANY EXCEPTIONS. IN THE UNLIKELY CASE WHERE THESE PLANS AND SPECIFICATIONS SHOW OTHERWISE DUE TO ERRORS OR OMISSIONS THE CONTRACTOR SHALL PROVIDE A LIST OF EXCEPTIONS WITH HIS BID. OTHERWISE, EXTRAS DURING CONSTRUCTION WILL NOT BE ALLOWED IN ORDER TO PROVIDE A COMPLETE AND OPERABLE ELECTRICAL SYSTEM.
25. APPLY AND ARRANGE FOR ELECTRICAL SERVICE FROM POWER COMPANY TO NEW BUILDING.
26. MATERIALS OTHER THAN THOSE SPECIFIED OR PRE-APPROVED AS LISTED ON THE DRAWINGS AND SPECIFICATIONS, SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW NOT LESS THAN TEN WORKING DAYS PRIOR TO THE PROJECT BID DATE. SUBMITTALS MUST INCLUDE COMPLETE CATALOG NUMBERS AND SPECIFICATION SHEETS.

LIGHTING SCHEDULE

DESIGNATION	TYPE	MANUFACTURER	MODEL	LAMP TYPE/QTY.	COMMENTS
	CCT LENSED HIGH BAY	METALUX	LHBS-1218-UNV-L84050	LED - 4000K	INPUT WATTS = 85W
	DUAL HEAD EMERGENCY LIGHT W/ BATTERY BACKUP	TAMLITE	ESLR-1	(2) 1W LED	
	DUAL HEAD EMERGENCY EXIT LIGHT W/ BATTERY BACKUP	TAMLITE	EXPCL	(2) 1W LED W/ SINGLE FACE RED LED	▽ INDICATES EMERGENCY LIGHT REMOTE HEAD TAMLITE LSRH-WP OR EQUAL
	EMERGENCY EXIT LIGHT W/ BATTERY BACKUP	TAMLITE	TXP3RWEM	1W LED	ARROW INDICATES DIRECTION
	12'-0" DIA. CEILING FAN	BIG ASS FANS	POWER FOIL X4 - VERIFY FAN SELECTION W/ OWNER & SUPPLIER		

FROM 60 AMP 2-POLE BREAKER @ EXISTING INTERIOR PANEL - CONTRACTOR TO VERIFY AVAILABLE CAPACITY @ EXISTING PANEL PRIOR TO WORK

1

PANEL
A
60A
NF ML0
NEMA-3R
1Ø/3W
120/240 VAC

WIRE SIZE LEGEND					
TAG NO.	AØ	BØ	NEUTRAL	GROUND	CONDUIT
1	#6	#6	#6	#10	1"
NOTES: 1) BASED ON THWN COPPER WIRE. 2) CONDUIT IS MINIMUM SIZE 3) GROUND WIRE TO BE BARE COPPER.					

ELECTRICAL RISER DIAGRAM
SCALE: NTS

PANEL- A

TYPE PLUG-ON MOUNTING FLUSH ENCLOSURE NEMA- 3 PHASE 1 WIRE 3
VOLTS 120/208 MAIN 60A MLO FRAME 60A SHORT CIR.RATING 10,000 RMS SYM MIN

CKT. NO.	CKT. BKR. TRIP	DESCRIPTION	PHASE/LOADING A	PHASE/LOADING B	A B	PHASE/LOADING A	PHASE/LOADING B	DESCRIPTION	CKT. BKR. TRIP	CKT. NO.
1	20/2	OVERHEAD FAN	0.7			0.7		GENERAL RECEPTACLE	20/1	2
3				0.7			0.7	GENERAL RECEPTACLE	20/1	4
5	-	SPACE	-			0.9		LIGHTING	20/1	6
7	-	SPACE		-			-	SPACE	-	8
9	-	SPACE	-			-		SPACE	-	10
11	-	SPACE		-			-	SPACE	-	12
SUBTOTAL			0.7	0.7		1.6	0.7			

TOTAL PANEL LOAD: AØ 2.3 BØ 1.4

NOTES:

NEUTRAL TERMINAL BAR ☒
GROUND TERMINAL BAR ☒

PANEL A
ELECTRICAL LOAD CALCULATIONS:

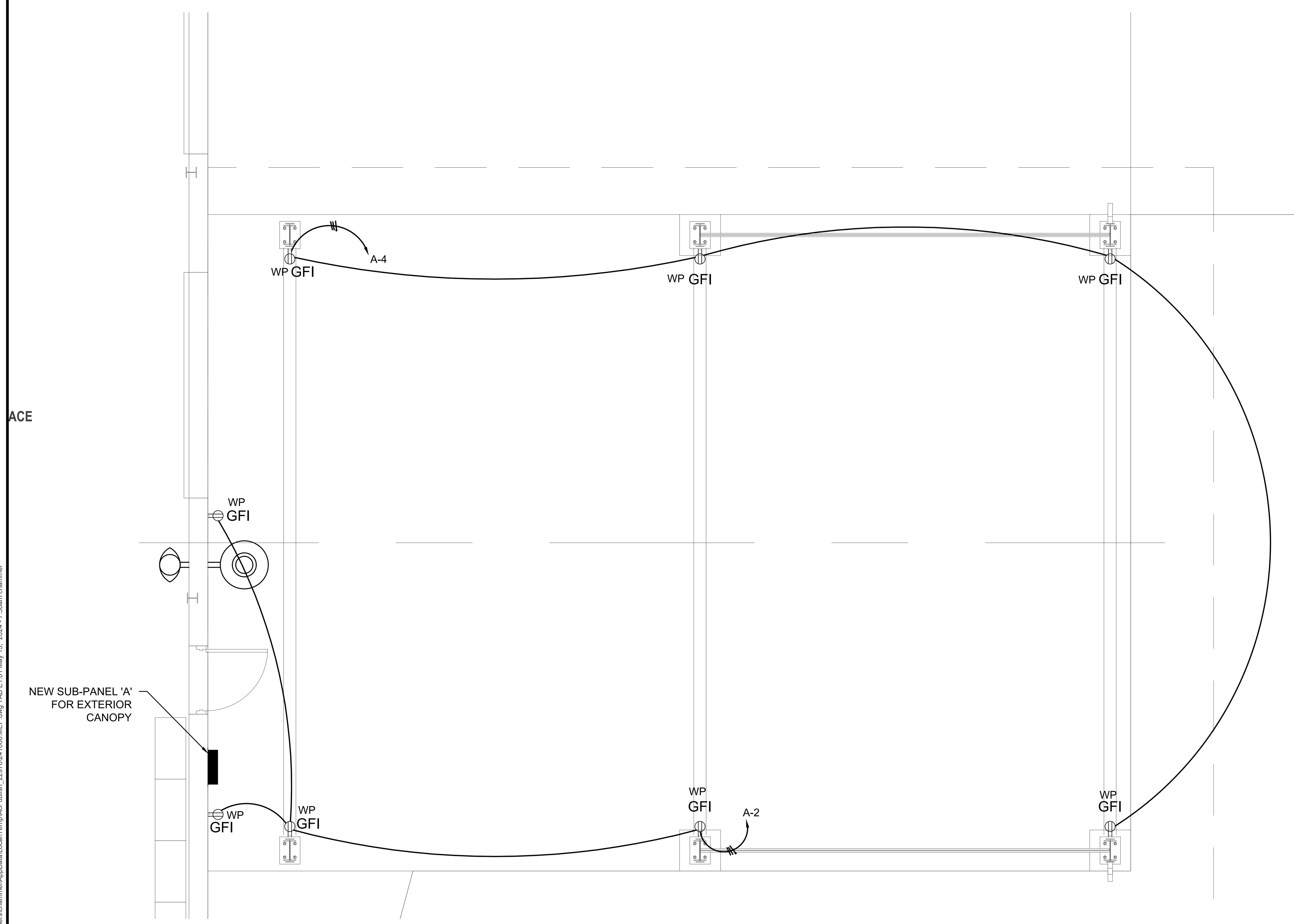
RECEPTACLE CONNECTED LOAD: 8 x 180 VA = 1.4 KVA

CONTINUOUS LOADS
EXTERIOR HIGH BAYS: ((8) @ 85W) = 0.7 KVA
CONTINUOUS LOADS: (0.7 KVA * 1.25) = 0.9 KVA

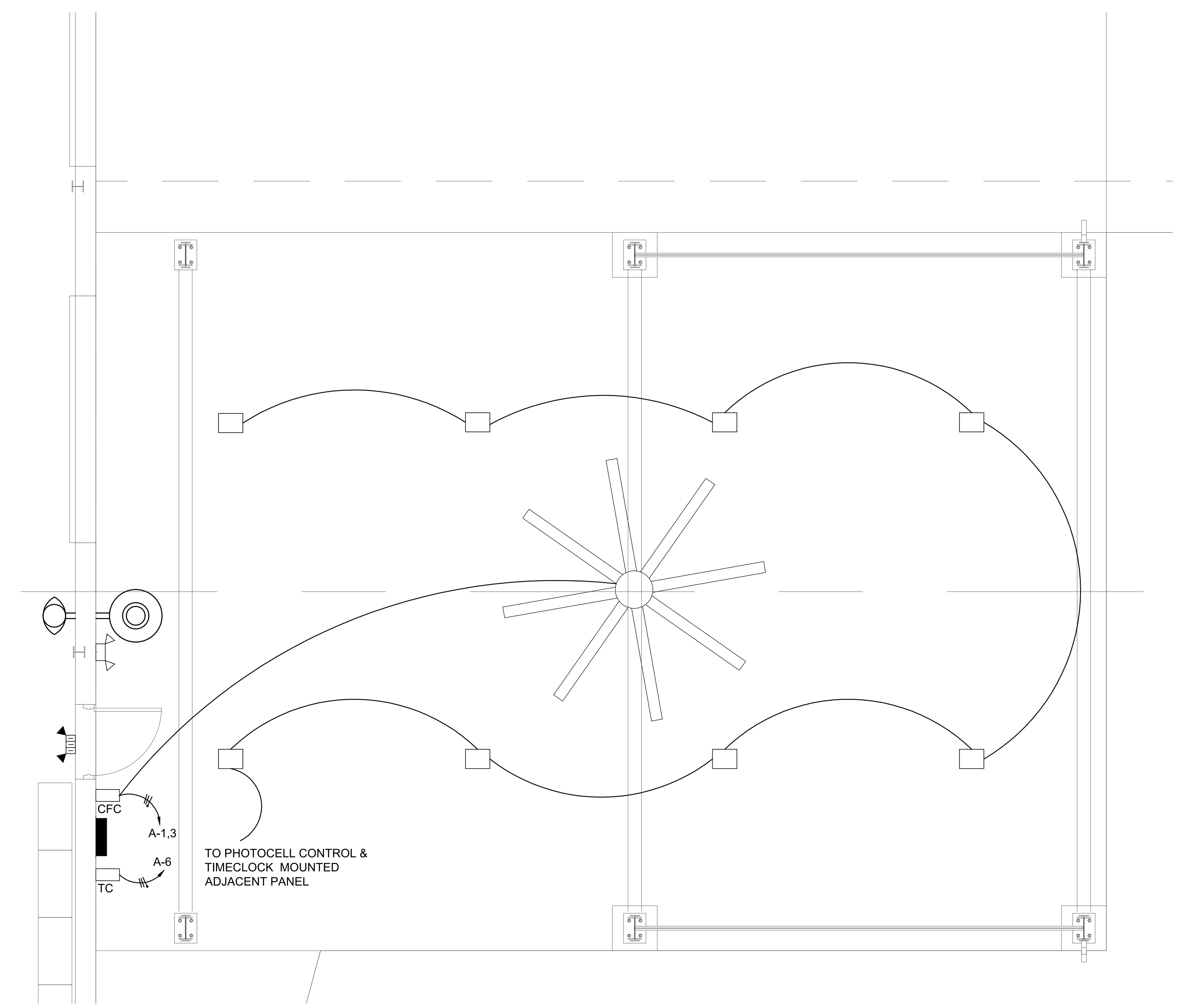
MOTORS
LARGEST MOTOR (FAN) @ 1.25 = 1.4 x 1.25 = 1.8 KVA

TOTAL SUB PANEL LOAD: 4.1 KVA = 17 AMP @ 240V 1-PHASE

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
⏀	120V RECEPTACLE
⏀GFI	DUPLEX RECEPTACLE W/ GROUND FAULT CIRCUIT INTERRUPTER
⏀WP	DUPLEX GFI RECEPTACLE ALL-WEATHER WITH BUBBLE COVER
$	SINGLE POLE SWITCH
$3	3-WAY SWITCH
CFC	FAN CONTROLLER
TC	TIMECLOCK
▬	ELECTRICAL PANEL
Ⓙ	JUNCTION BOX



1 ELECTRICAL POWER PLAN
Scale: 1/8" = 1' - 0"



2 ELECTRICAL LIGHTING PLAN
Scale: 1/8" = 1' - 0"

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SOUTH CAROLINA PROFESSIONAL ENGINEER NO. 27391 CHRISTOPHER L. HAM

SOUTH CAROLINA THE EARTHWORKS GROUP, INC. NO.C01383 CERTIFICATE OF AUTHORIZATION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION	BY
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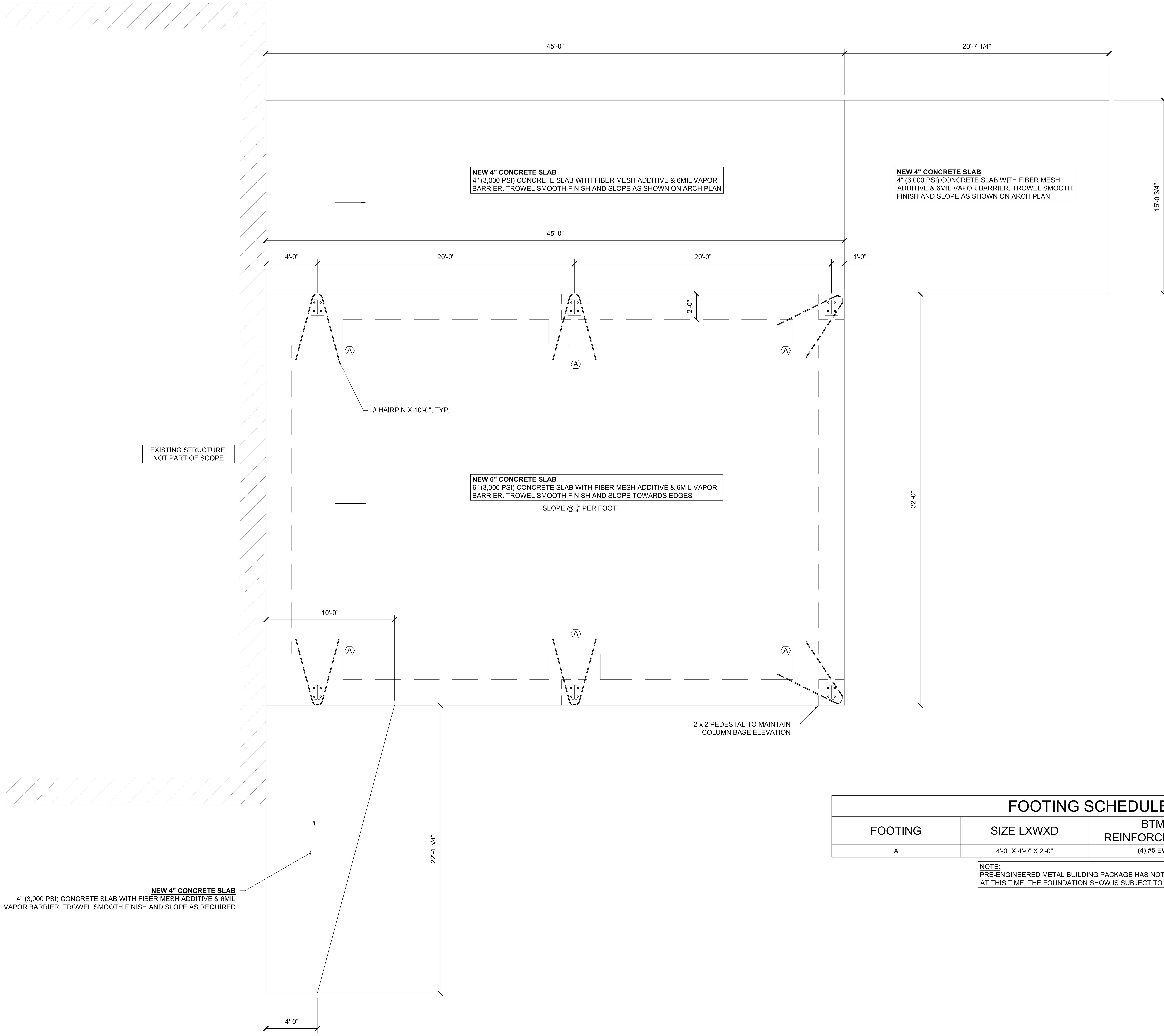
HORRY - GEORGETOWN TECHNICAL COLLEGE
4003 SOUTH FRASER STREET, GEORGETOWN, SC 29440

ELECTRICAL PLAN

PREPARED FOR:
HORRY - GEORGETOWN TECHNICAL COLLEGE
4003 SOUTH FRASER STREET, GEORGETOWN, SC 29440

PROJECT #:	241006
DATE:	4/22/2024
SCALE:	AS NOTED
DESIGNED BY:	CH
DRAWN BY:	NL
CHECKED BY:	CH

E1.01



FOUNDATION PLAN

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

FOOTING SCHEDULE

FOOTING	SIZE LXWXD	BTM REINFORCEMENT	TOP REINFORCEMENT
A	4'-0" X 4'-0" X 2'-0"	(4) #5 EW	(4) #5 E/W

NOTE:
PRE-ENGINEERED METAL BUILDING PACKAGE HAS NOT BEEN REVIEWED AT THIS TIME. THE FOUNDATION SHOW IS SUBJECT TO CHANGE.

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REVISION SCHEDULE

NO.	DATE	DESCRIPTION	BY
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BUILDING 500 EXTERIOR CANOPY SHELTER

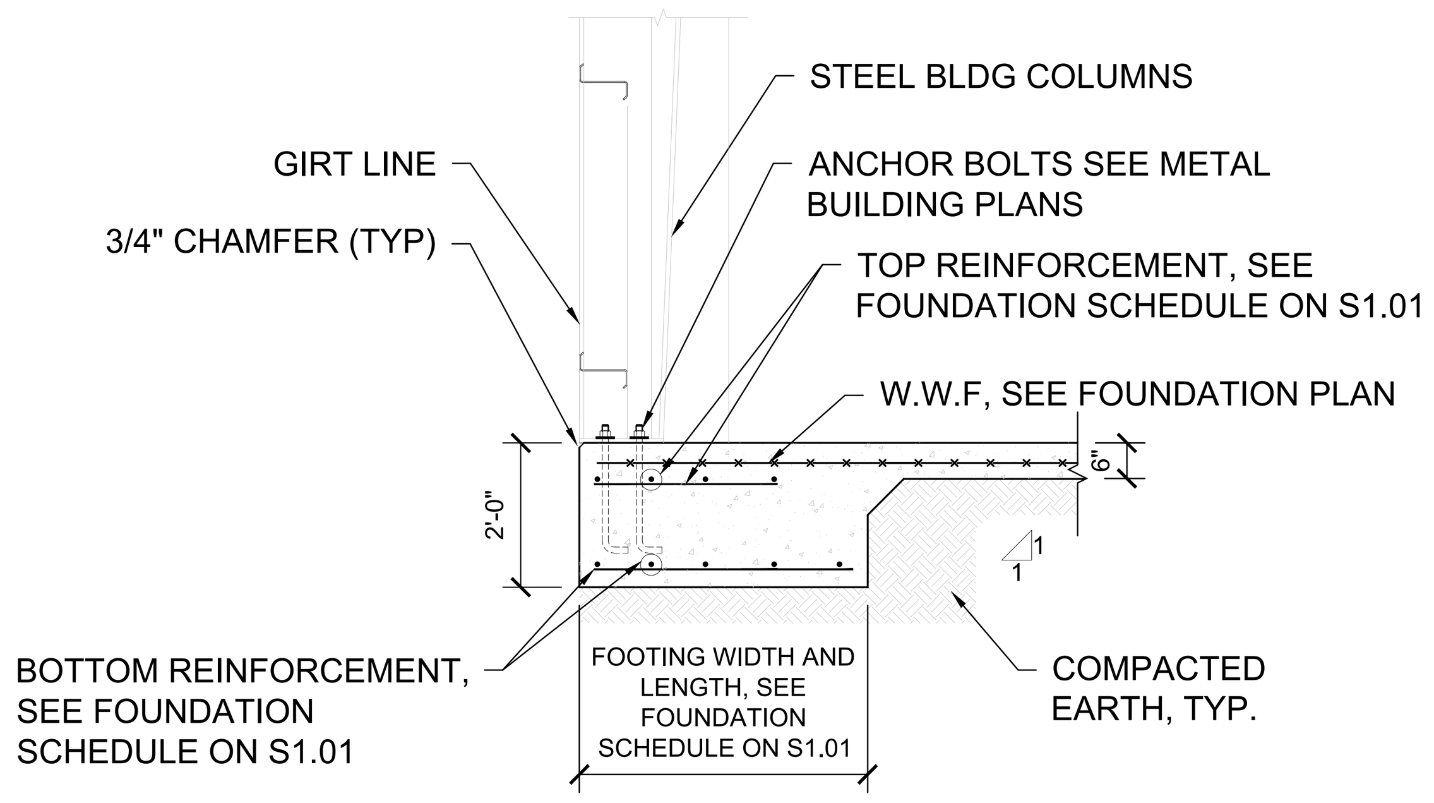
FOUNDATION PLAN

PREPARED FOR: HORRY-GEORGETOWN TECHNICAL COLLEGE
4003 SOUTH FRASER STREET
GEORGETOWN, SC 29440

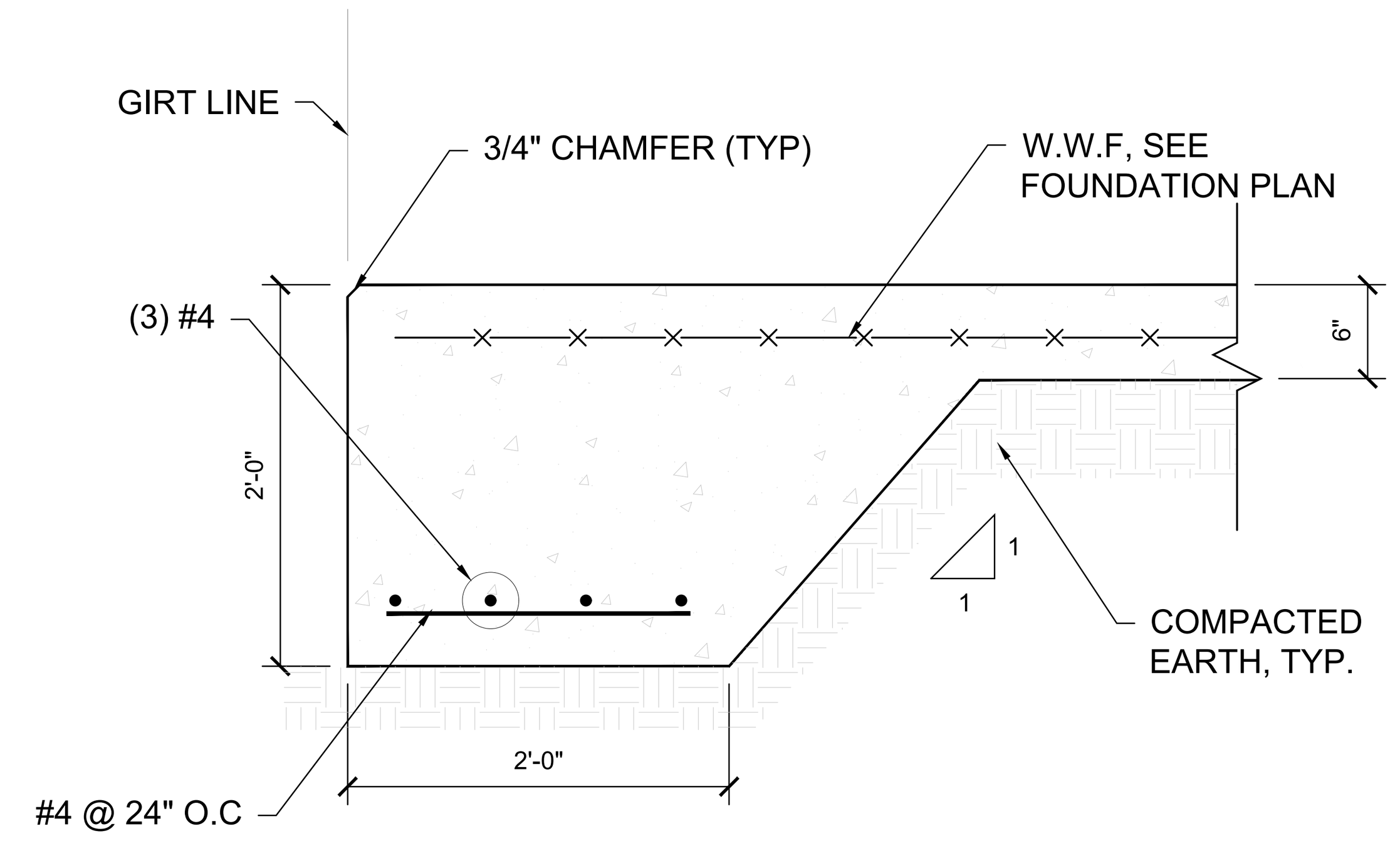
PROJECT LOCATION: 4003 SOUTH FRASER STREET
GEORGETOWN, SC 29440

PROJECT #:	241006.000
DATE:	5/13/2024
SCALE:	AS NOTED
DESIGNED BY:	BMH
DRAWN BY:	BKB
CHECKED BY:	SGS

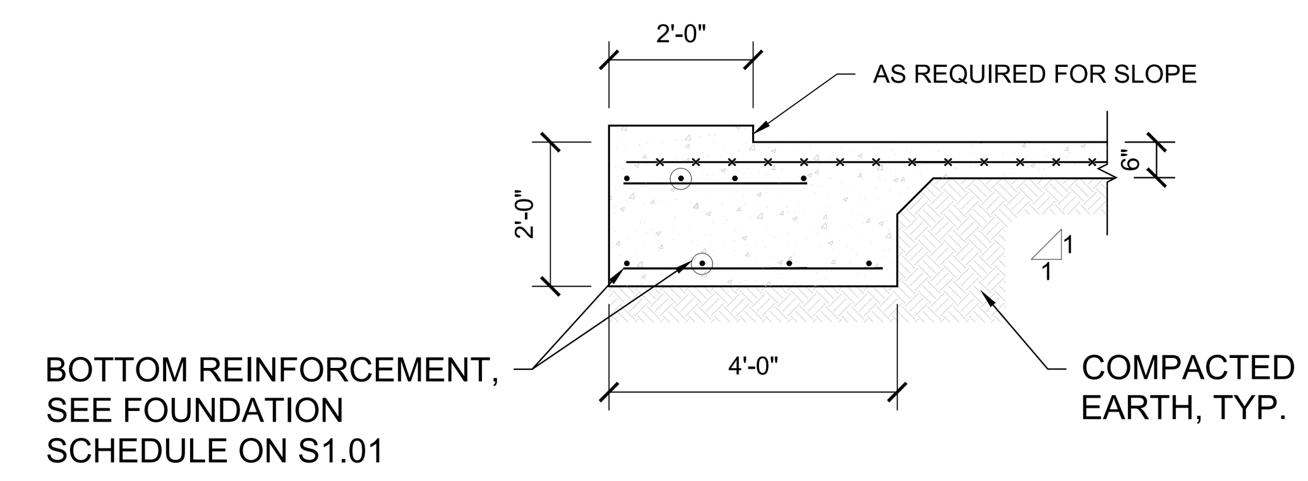
S1.01



1 TYPICAL CONCRETE FOOTING @ COLUMNS
SCALE: NTS



2 SECTION @ TURNDOWN
SCALE: NTS



3 TYP. CONCRETE FOOTING
SCALE: NTS

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REVISION SCHEDULE

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BUILDING 500 EXTERIOR CANOPY SHELTER

STRUCTURAL DETAILS

PREPARED FOR: HORRY-GEORGETOWN TECHNICAL COLLEGE
4003 SOUTH FRASER STREET
GEORGETOWN, SC 29440

PROJECT LOCATION: 4003 SOUTH FRASER STREET
GEORGETOWN, SC 29440

PROJECT #:	241006.000
DATE:	5/13/2024
SCALE:	AS NOTED
DESIGNED BY:	BMH
DRAWN BY:	BKB
CHECKED BY:	SGS

S2.01

STRUCTURAL NOTES

GOVERNING CODE:	2021 INTERNATIONAL BUILDING CODE WITH SOUTH CAROLINA AMENDMENTS LOADS ARE IN ACCORDANCE WITH ASCE 7-16

1.	**RISK CATEGORY:**	II
1.1.	SNOW IMPORTANCE FACTOR (I_S)	1.00
1.2.	ICE IMPORTANCE FACTOR - THICKNESS (I_i)	1.00
1.3.	ICE IMPORTANCE FACTOR - WIND (I_w)	1.00
1.4.	SEISMIC IMPORTANCE FACTOR (I_e)	1.00
2.	**DEAD LOADS**	*PER MATERIAL WEIGHTS*
3.	**LIVE LOADS**	
3.1.	ROOF LIVE LOAD	20 PSF
3.2.	FLOOR LIVE LOADS	40 PSF
4.	**SNOW LOADS**	
4.1.	GROUND SNOW LOAD (P_g)	5 PSF
4.2.	SNOW EXPOSURE FACTOR (C_e)	0.9
4.3.	THERMAL FACTOR (C_t)	1.2
4.4.	FLAT ROOF SNOW LOAD (P_f)	5 PSF
4.5.	SLOPED ROOF SNOW LOAD (P_s)	5 PSF
5.	**WIND LOADS**	
5.1.	BASIC WIND SPEEDS	
5.1.1.	V_{ULT}:	157 MPH
5.1.2.	V_{ASD}:	116 MPH
5.2.	WIND EXPOSURE:	EXPOSURE B
5.3.	MEAN ROOF HEIGHT:	< 30 FT
5.4.	MAIN WIND FORCE RESISTING PRESSURES (PSF) ROOF: -51.0 *(MAX UPLIFT)* & +18.5/-36.4 *(OVERTURNING)* WALL: +36.6 *(NET WINDWARD & LEEWARD)*	
5.5.	COMPONENT & CLADDING PRESSURES (PSF) ROOF: +22.2/-61.0 *(ZONE 3)* & +22.2/-24.0 *(ZONE 1)* WALL: +24.0/-26.0 *(ZONE 4)* & +24.3/-32.0 *(ZONE 5)*	
5.6.	INTERNAL PRESSURE COEFFICIENTS (GC_{pi}):	
5.6.1.	ENCLOSED STRUCTURE:	± 0.18
5.6.2.	PARTIALLY ENCLOSED STRUCTURE:	± 0.55
5.6.3.	OPEN STRUCTURE:	± 0.00
6.	**SEISMIC LOAD INFORMATION**	
6.1.	BASIC PARAMETERS	
6.1.1.	MCE_R GROUND MOTION (S_S)	0.511
6.1.2.	MCE_R GROUND MOTION (S_1)	0.167
6.1.3.	SEISMIC DESIGN VALUE @ 0.2s SA (S_{DS})	0.474
6.1.4.	SEISMIC DESIGN VALUE @ 0.1s SA (S_{D1})	0.252
6.2.	SITE CLASS:	D *(Stiff Soils)*
6.3.	SEISMIC DESIGN CATEGORY:	SDC D
6.4.	BASIC FORCE RESISTING SYSTEM: *MOMENT-RESISTING FRAME SYSTEMS*	
6.4.1.	RESPONSE MODIFICATION FACTOR (R):	3.25
6.4.2.	SEISMIC RESPONSE COEFFICIENT (C_s): $C_S = S_{DS} / (R / I_e)$	0.15
6.5.	DESIGN BASE SHEAR:	0.15 * W
6.6.	ANALYSIS PROCEDURE USED: *EQUIVALENT LATERAL FORCE*	
7.	**GEOTECHNICAL INFORMATION**	
7.1.	SOIL BEARING CAPACITY:	2,000 PSF *(PER TABLE 1806.2)*
8.	**FLOOD DESIGN DATA**	
8.1.	FLOOD ZONE	X-ZONE
9.	**RAIN LOAD**	
9.1.	RAIN INTENSITY - 100 YEAR, 1 HOUR (i):	4.00 IN/HR

A. GENERAL

1. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE, AND TO ENSURE THE STABILITY OF THE BUILDING AND ITS COMPONENT PARTS, AND THE ADEQUACY OF TEMPORARY OR INCOMPLETE CONNECTIONS, DURING ERECTION. THIS INCLUDES THE ADDITION OF ANY SHORING, SHEETING, TEMPORARY, BRACING OR TIEDOWNS THAT MIGHT BE NECESSARY. SUCH MATERIAL IS NOT SHOWN ON THE DRAWINGS. IF APPLIED, THEY SHALL BE REMOVED AS CONDITIONS PERMIT. THE ENGINEER TAKES NO RESPONSIBILITY FOR, CONSTRUCTION MEANS AND METHODS OR JOB SITE SAFETY DURING CONSTRUCTION. PROCESSING AND/OR APPROVING SUBMITTALS MADE BY THE CONTRACTOR WHICH MAY CONTAIN INFORMATION RELATED TO CONSTRUCTION METHODS OR SAFETY ISSUES, OR PARTICIPATION IN MEETINGS WHERE SUCH ISSUES MIGHT BE DISCUSSED, SHALL NOT BE CONSTRUED AS VOLUNTARY ASSUMPTION BY THE ENGINEER OF ANY RESPONSIBILITY FOR SAFETY PROCEDURES.
2. IT IS SOLELY THE RESPONSIBILITY OF EACH CONTRACTOR TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION. THE ENGINEER DOES NOT SUPERVISE, CONSTRUCTION UNLESS CONTRACTED TO DO SO. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
3. EQUIPMENT FRAMING LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO HVAC, PLUMBING, OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL COORDINATE THIS INFORMATION WITH THE INVOLVED TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN THESE REQUIREMENTS TO BE BORNE BY THE APPROPRIATE CONTRACTOR.
4. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THESE STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN. DO NOT SCALE THESE DRAWINGS. USE DIMENSIONS.
5. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH ARCHITECTURAL FLOOR PLANS PRIOR TO CONSTRUCTION. ARCHITECTURAL FLOOR PLANS SHALL GOVERN DIMENSIONS, AND ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. DO NOT SCALE DRAWINGS.
6. FIRST FLOOR WINDOWS AND DOORS SHALL HAVE A RATING OF **DP55**. GARAGE DOORS TO HAVE A RATING OF **DP50**. SECOND FLOOR WINDOWS SHALL HAVE A RATING OF **DP55**.
7. NOTE ON TREATED LUMBER CONNECTIONS - ALL NAILS, BOLTS, SCREWS, AND CONNECTORS THAT MAY COME INTO CONTACT WITH TREATED LUMBER WILL BE HOT DIPPED GALVANIZED (HDG), STAINLESS STEEL (SS), OR OTHER MATERIALS APPROVED BY THE MANUFACTURE TO MINIMIZE CORROSION CAUSED BY ACQ TREATMENT CHEMICALS.
8. SOIL LOAD BEARING CAPACITY FOR SANDS, SILTY SANDS AND CLAYEY SAND ARE PRESUMED TO BE 2,000 POUNDS PER SQUARE FOOT FOR DESIGN PURPOSES. SOIL LOAD BEARING CAPACITY FOR CLAYS AND SILTS (SL, ML, MH, AND CH) ARE PRESUMED TO BE 1,500 POUNDS PER SQUARE FOOT FOR DESIGN PURPOSES.
9. SHOULD A CONFLICT OCCUR BETWEEN THESE DRAWINGS AND THE AFOREMENTIONED CODE REFERENCES, THE MORE STRINGENT SHALL GOVERN.

B. REINFORCED CONCRETE

1. MATERIALS:

1.a. SPECIFICATIONS: IN GENERAL, COMPLY WITH ACI 318-14 "SPECIFICATIONS FOR STRUCTURAL CONCRETE"

1.b. STRUCTURAL CONCRETE:

LOCATION	F'c (PSI)
FOOTINGS	3,000
MONOLITHIC SLABS ON GRADE & ALL INTERIOR CONCRETE NOT OTHERWISE IDENTIFIED	3,500
RAISED STEMWALL SLABS & CONCRETE ON-GRADE, PIERS	3,000
BACKFILL BELOW FOOTINGS (MUD MAT)	2,000
ALL EXTERIOR CONCRETE NOT OTHERWISE IDENTIFIED	3,000

1.c. ALL DEFORMED REINFORCING BARS: Fy = 60,000 ASTM A-615 GRADE 60

1.d. MIXES: ALL CONCRETE MIXES SHALL BE DESIGNED BY THE SUPPLIER TO MEET THE REQUIREMENTS SET FORTH HEREIN.

1.d.1. SLUMP: MAXIMUM ALLOWABLE SLUMP FOR CONCRETE SHALL BE 4", UNLESS OTHERWISE NOTED OR APPROVED. IF HIGHER SLUMP IS DESIRED TO INCREASE WORKABILITY, CONTRACTOR SHALL CONSULT WITH CONCRETE SUPPLIER ABOUT USING A CONCRETE ADDITIVE THAT WILL INCREASE SLUMP WITHOUT INCREASING WATER/CEMENT RATIO OF THE CONCRETE. THE CONTRACTOR SHALL VERIFY THAT ANY CONCRETE ADDITIVES WILL NOT HAVE ANY DETRIMENTAL EFFECTS ON EMBEDDED ITEMS, FINISHES INDICATED ON PLANS, OR LIKELY FUTURE FINISHES.

1.e. FINISHING: FINISHING OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI 301 (LATEST EDITION).

1.e.1. CURING: BEGINNING IMMEDIATELY AFTER PLACEMENT, CONCRETE SHALL BE PROTECTED FROM PREMATURE DRYING, EXCESSIVELY HOT OR COLD TEMPERATURES, AND MECHANICAL INJURY AND SHALL BE MAINTAINED WITH MINIMAL MOISTURE LOSS AT RELATIVELY CONSTANT TEMPERATURE FOR THE PERIOD NECESSARY FOR THE HYDRATION OF THE CEMENT AND HARDENING OF THE CONCRETE. THE MATERIALS AND METHODS OF CURING SHALL CONFORM TO ACI 301.

2. FIELD MANUAL: PROVIDE AT LEAST ONE COPY OF THE ACI FIELD REFERENCE MANUAL, SP-15, IN THE FIELD OFFICE AT ALL TIMES.

3. MISCELLANEOUS:

3.a. BENT BARS, IF REQUIRED, SHALL BE BENT PER MANUFACTURER RECOMMENDATIONS, UNLESS OTHERWISE APPROVED.

3.b. PROVIDE SUPPORTS AS REQUIRED TO MAINTAIN ALIGNMENT OF SCHEDULED REINFORCING.

3.c. GROUT UNDER COLUMN BASE PLATES SHALL BE NON-SHRINKING TYPE. THE USE OF LEVELING PLATES AT COLUMN BASES IS PROHIBITED. GROUT BELOW BEARING PLATES, SETTING PLATES AND COLUMN BASE PLATES IS TO BE INSTALLED ONLY AFTER THE STEEL IS PLUMBED.

4. SLABS:

4.a. CONCRETE SLABS ON GRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 302.IR-96 "GUIDE FOR CONCRETE".

4.b. CONTROL JOINTS SHALL BE SPACED IN INTERIOR SLABS ON GRADE AT A MAXIMUM OF 20 FEET ON CENTER AND IN EXTERIOR SLABS ON GRADE AT A MAXIMUM OF 10 FEET ON CENTER, UNLESS OTHERWISE NOTED.

4.c. CONTROL JOINTS SHALL BE PRODUCED USING CONVENTIONAL PROCESSES WITHIN 4 TO 12 HOURS AFTER THE SLAB HAS BEEN FINISHED. REINFORCING STEEL SHALL NOT EXTEND THROUGH THE CONTROL JOINT.

4.d. CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE STRUCTURAL ENGINEER. CONSTRUCTION JOINTS ARE TO BE KEYED. KEYWAYS SHALL BE 1-1/2 INCHES DEEP x 1/3 MEMBER THICKNESS.

4.e. PROVIDE 6 MIL POLYETHYLENE VAPOR BARRIER BETWEEN SUBGRADE AND CONCRETE SLAB.

4.f. TREAT SOIL FOR TERMITES PRIOR TO PLACEMENT OF CONCRETE.

4.g. PREPARE SITE BY REMOVING ORGANIC/EXPANSIVE SOILS AND COMPACTING TO 95% PROCTOR DRY DENSITY.

4.h. SLAB FINISHES:

4.h.1. ALL OFFICE SPACES, RETAIL, RESIDENTIAL AND SIMILAR SLABS SHALL HAVE MACHINE FINISH WITH $\frac{1}{8}$" PER 10'-0" TOLERANCE.

4.h.2. ALL EXTERIOR, WET SURFACE, DRIVEWAYS, SIDEWALKS AND SIMILAR SLABS SHALL BE FINISHED WITH ROUGH NON-SKID SURFACE (BROOM FINISH). BRUSH LINES IN THE FINISH SHALL BE PARALLEL TO THE DIRECTION OF SLOPE.

4.i. THE CONCRETE SLAB ON GRADE HAS BEEN DESIGNED USING A SUBGRADE MODULUS OF K=250 PCI AND A DESIGN LOADING OF 2,000 PSF. THE STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR DIFFERENTIAL SETTLEMENT, SLAB CRACKING OR OTHER FUTURE DEFECTS RESULTING FROM UNREPORTED CONDITIONS MITIGATING THE ABOVE ASSUMPTIONS.

4.j. REINFORCEMENT FOR SLAB ON GRADE SHALL BE PLACED AT A LOCATION BETWEEN THE CENTER AND UPPER THIRD OF THE SLAB.

5. OPENINGS:

5.a. OPENINGS SHOWN ARE FOR BIDDING PURPOSES ONLY. COORDINATE THEIR EXACT SIZES AND LOCATIONS WITH HVAC, PLUMBING, AND OTHER REQUIREMENTS BEFORE PROCEEDING WITH WORK.

5.b. IF ANY OPENING NOT SHOWN ON THE PLANS IS REQUIRED, SECURE APPROVAL OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING

5.c. PROVIDE TWO #5 BARS AROUND ALL SLAB OPENINGS, EXTENDING 2 FEET BEYOND OPENING IN EVER DIRECTION, UNLESS NOTED OTHERWISE. OPENINGS NOT EXCEEDING 16 INCHES x 16 INCHES MAY BE SLEEVED AS REQUIRED BY WORKING THE REINFORCING STEEL AROUND THEM.

6. FOOTINGS AND PIERS:

6.a. INSTALL DOWELS IN FOOTINGS TO MATCH VERTICAL PIER OR WALL REINFORCING STEEL.

6.b. PROVIDE CORNER BARS AT FOOTING CORNERS TO MATCH HORIZONTAL REINFORCING. MINIMUM LAP LENGTH WITH HORIZONTAL REINFORCING STEEL = 35 BAR DIAMETERS.

6.c. BACKFILL AGAINST BOTH SIDES OF WALLS EQUALLY UNTIL THE LOWER ELEVATION IS ATTAINED.

6.d. PROVIDE MINIMUM 18 INCH THICK LAYER OF GRANULAR BACKFILL FULL HEIGHT OF ALL FOUNDATION WALLS.

6.e. CAST IN CONTINUOUS DOVE TAIL ANCHOR SLOTS ON VERTICAL SURFACES WHERE MASONRY ABUTS, 16 INCHES ON CENTER FOR PARALLEL MASONRY SURFACES. INSTALL AT CENTERLINE OF MASONRY FOR PERPENDICULAR MASONRY SURFACES.

6.f. PROVIDE LEAN CONCRETE UNDER FOUNDATIONS FOR ACCIDENTAL OVER EXCAVATION, SOFT SPOTS, AND TRENCHES.

6.g. VENTILATING FOUNDATION WALL OPENINGS SHALL BE WITHIN 3 FEET OF EACH CORNER OF THE BUILDING. AREA OF OPENINGS SHALL BE NOT LESS THAN 1 SQ. FT. FOR EACH 150 SQ. FT. OF UNDER FLOOR SPACE AREA.

7. SPLICES: UNLESS OTHERWISE NOTED, MINIMUM LAP SPLICE LENGTHS TO BE AS FOLLOWS:

REINFORCING STEEL	LAP LENGTH
VERTICAL BARS (INCLUDING DOWELS)	30 BAR DIAMETERS
HORIZONTAL BARS IN SLABS & FOOTINGS	30 BAR DIAMETERS

8. CONCRETE COVER: UNLESS OTHERWISE NOTED, DETAIL REINFORCING TO PROVIDE CONCRETE COVER AS FOLLOWS:

STEEL LOCATION	CONCRETE COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3 INCHES
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#5 BARS AND SMALLER	1-1/2 INCHES
OTHERS	2 INCHES
PILE CAPS	2-1/2 INCHES

C. STRUCTURAL STEEL

1. THE MISCELLANEOUS STEEL FRAMING AS DESIGNED IS A NON-SELF-SUPPORTING STEEL FRAME AS DEFINED BY THE AISC CODE OF STANDARD PRACTICE, PARAGRAPH 7.9.3. COORDINATE THE ERECTION WITH THE INSTALLATION OF OTHER BUILDING ELEMENTS REQUIRED FOR THE STRUCTURE'S STABILITY. THESE ELEMENTS INCLUDE SLABS, ROOF SHEATHING, WOOD JOISTS, STUD WALLS, AND LIGHT GAGE METAL FRAMING.

2. MATERIAL:

2.a. STRUCTURAL STEEL: ASTM A36, FY = 36 KSI

2.b. HIGH STRENGTH BOLTS: ASTM A325 OR A490

2.c. ANCHOR BOLTS: ASTM A307 OR A36

2.d. ELECTRODES: SERIOUS E70

2.e. STRUCTURAL PIPES: ASTM A53 OR A501, FY = 35 KSI MIN

2.f. SQUARE AND RECTANGULAR TUBING: ASTM A500, FY = 46 KSI

2.g. EXPANSION BOLTS: HILTI "KWIK-BOLT II" OR APPROVED EQUAL

3. SPECIFICATION: WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS D1.1. UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION AND ERECTION TO BE GOVERNED BY:

3.a. AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (JUNE 1, 1989)

3.b. AISC CODE OF STANDARD PRACTICE (SEPTEMBER 1, 1986)

3.c. STRUCTURAL WELDING CODE, AWS D1.1-98 OF THE AMERICAN WELDING SOCIETY

3.d. SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS (NOVEMBER 13, 1985)

4. CONNECTIONS:

4.a. FIELD CONNECTION TO BE BOLTED, UNLESS SHOWN OTHERWISE, SHOP CONNECTIONS TO BE WELDED OR BOLTED. CONNECTION TO BE DESIGNED BY THE FABRICATOR TO DEVELOP THE FULL UNIFORM LOAD CAPACITY OF THE MEMBER OR FORCES SHOWN ON PLANS, WHICHEVER IS GRATER.

5. GALVANIZING: ALL EXTERIOR STEEL EXPOSED TO THE ELEMENTS AND ALL ITEMS INDICATED ON THE DRAWINGS AS "GALVANIZED" SHALL BE HOT DIP GALVANIZED

6. PAINT:

6.a. DO NOT PAINT STEEL OR ANCHOR BOLTS WHICH WILL BE GALVANIZED, ENCASED IN CONCRETE, OR ANY STEEL NOT EXPOSED TO VIEW IN THE FINISHED STRUCTURE, EXCEPT COLUMNS AND PORTIONS OF BEAMS EMBEDDED IN OR BUILT WITHIN EXTERIOR WALLS, WHICH SHALL BE PAINTED WITH TWO COATS OR PRIMER.

7. MISCELLANEOUS:

7.a. ANCHOR BOLTS AT STEEL COLUMN BASE ARE NOT DESIGNED TO PROVIDE, AND WILL NOT PROVIDE, STABILITY FOR THE STEEL FRAME DURING ERECTION. FOR SAFETY CONSIDERATIONS DURING ERECTION, SEE STRUCTURAL NOTE A.1.

7.b. PROVIDE HOLES FOR OTHERS. IF OPENINGS IS NOT SHOWN OF THE STRUCTURAL DRAWINGS, OBTAIN PRIOR APPROVAL.

7.c. THE USE OF LEVELING PLATES AT COLUMN BASES IS PROHIBITED. SEE THE REINFORCED CONCRETE NOTES ABOVE FOR GROUT AND GROUTING REQUIREMENTS.

7.d. STEEL BELOW GRADE IS TO BE PROTECTED BY A MINIMUM OF 3 INCHES OF CONCRETE.

7.e. PROVIDE SHOP WELDED ANCHORS FOR ATTACHMENTS OF MASONRY. SPACING TO BE 16 INCHES ON COLUMNS AND BEAMS.

7.f. PROVIDE WASHER AND HEAVY NUT AT ALL ANCHOR BOLTS (BOTH ENDS).

7.g. FINISH ENDS OF ALL COLUMNS, STIFFENERS AND ALL OTHER MEMBERS IN DIRECT BEARING.

7.h. EMBEDMENT LENGTH OF EXPANSION BOLTS INTO SOLIDS MASONRY OR CONCRETE SHALL BE AS FOLLOWS:

$\frac{1}{2}$ INCH DIAMETER BOLTS - 3 $\frac{1}{2}$ INCH EMBEDMENT
$\frac{3}{4}$ INCH DIAMETER BOLTS - 5 INCH EMBEDMENT

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SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION THE EARTHWORKS GROUP, INC. NO:C01383

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BUILDING 500 EXTERIOR CANOPY SHELTER

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