BECKER MORGAN GROUP

ARCHITECTURE
ENGINEERING

ADDENDUM NO. 2
September 3, 2020

RENOVATION OF GALEHOUSE (A BUILDING), MCLEOD (S BUILDING), AND NATURAL SCIENCES (N BUILDING)
Cape Fear Community College
Wilmington, North Carolina
SCO #17-18154-01A; NCCCS #2352
BMG Project No. 2018023.00

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.

1. REQUESTS FOR INFORMATION

a. The requests for information (RFI's) deadline, 10:00 am EST, Wednesday, September 2, 2020, has passed. No further questions will be considered.
b. The requests for substitutions deadline, 10:00 am EST, Wednesday, September 2, 2020, has passed. No further substitutions will be considered.
c. Formal RFI and Requests for Substitutions responses for all questions received prior to the deadline are noted below.

BID RFI 001

a. Can copper pro-press joints be used in lieu of copper sweat joints?
Response: Pro-press joints are acceptable.

BID RFI's 002 & 003 – not used

BID RFI 004

a. Could you advise if this is a reroof?
Response: While some incidental roof work and/or patching may be required to accommodate new mechanical equipment and penetrations, the existing roof is slated to remain.

BID RFI 005

a. There is a specification section for Horizontal Louver Blinds, but we have not been able to locate on the plans were the blinds are required. Can you provide clarification?
Response: This spec section has been deleted. Existing blinds will remain, the scope will not include new blinds.

BID RFI 006

a. The Installer Qualifications listed in spec section 93013 for ceramic tile limits the number of tile contractors able to bid this project. I have only been able to locate three contractors in North Carolina, South Carolina and Virginia who are qualified, and they may not be willing to travel to Wilmington for this project. Can this qualification be revised?
Response: As this is a state project, higher quality expectations are normal. The qualification cannot be revised.

BID RFI 007

a. What tile is to be provided behind the drinking fountains? (13 / A402).
Response: CT-4 has been added to the drawings and specifications for use behind the drinking fountains.

BID RFI 008

a. PFT-1 – Specifications indicate this tile to be 24 by 48. The Finish Schedule of the drawings indicate this tile to be 18 by 18. Please Clarify.
Response: Specification shall be clarified to match the 18x18 size noted on the finish schedule.

BID RFI 009

a. Note #11 on the Finish Schedule Legend indicates to “Remove damaged portions of quarry tile wall base and replace with new tile to match existing.” This is very vague and up to interpretation as what would need to be replaced. Can we include an allowance amount with a unit price to add or delete quantity of tile base to be replaced?
Response: Note 11 has been clarified. We observed approximately 25 linear feet of damaged tile wall base to be replaced.

BID RFI 010

a. Is it possible to post pone the bid date by one week? We have several projects bidding the same week.
Response: The bid date will not be extended at this time.

BID RFI 011

a. Sheet S001, under the notes applying to structural steel, we have notes calling for steel to be hot dipped galvanized and also, primed and painted. Can you clarify which is correct?
Response: Structural Steel Note #5: "...hot-dipped galvanized" shall be clarified to be "prime coated". All steel shall be primed and coated.

2. PROJECT MANUAL

The following specification(s) have been added or revised and are attached to this addendum in PDF format:

a. Section 012100: Paragraph 3.3 Schedule of Allowances
Item A: Replace $350.00 with $4,260.00
b. Section 093013: Paragraph 2.4 Tile Products, Types
Item A, Line 1: Replace “18x24 inches” with “18x18 inches.”
c. Section 093013: Paragraph 2.4 Tile Products, Types
Item D. Porcelain Wall Tile (CT-4) has been added
d. Section 122113: Horizontal Louver Blinds
Delete entire section
e. Section 260519: Paragraph 3.2 Preparation
No change. Bidders are strongly encouraged to review the requirements related to maintaining data center operation during construction.

3. DRAWINGS

The following drawing(s) have been added or revised and are attached to this addendum in PDF format:

a. AD101A, AD102, AD103, AD104 – clarified the scope related to horizontal louver blinds. Clarified the existing condition at the second floor storefront.
b. A301, A301A, A302, A303, A304, A402 – clarified extent of tile wall base to be replaced. Added CT-4 to finish materials legend and clarified tile at drinking fountains.
c. A102, A801, A803 – door 200 has been added.
d. A202 – added a soffit at existing clerestory windows.
e. A502 – clarified new/existing stair rail components.
f. A701 – clarified detail 9. Added new soffit detail at clerestory.
g. E003 – Revised service conductors.
h. E004 – Revised service conductors.
i. E004.1 – Revised Detail 3/E004.1.
j. E005 – Added Elevator Shunt Trip Supervision Details 4 and 5.
k. E009.2 – Revised Panel Schedules “2N1” and “2LS”.
l. E009.3 – Revised Panel Schedule “2S3”.
m. E012 – Revised Functional Fire Alarm Riser Diagram.
n. E013 – Added fixture Types L1E L2E and L11E.
o. E106 – Revised service conductors. Added Elevator Shunt Trip Relays Enclosure.
p. E106A – Added Elevator Shunt Trip Relays Enclosure.
q. E116 – Deleted Type “E” fixture in Rooms 212, 220, 227 and 230. Deleted one Type “L2” fixture in Rooms 212, 216, 220, 227 and 230. Added one Type “L2E” fixture in Rooms 212, 216, 220, 227 and 230.
r. E117 – Deleted type “E” fixture in Rooms 307 and 311. Deleted one type “L2” fixture in Rooms 307 and 311. Added one type “L2E” fixture in Rooms 307 and 311.
s. E117A – Deleted one Type “L1” fixture in Rooms 301, 302, 308, 309, 310, 316, 317. Added one Type “L1E” fixture in Rooms 301, 302, 308, 309, 310, 316, 317.
t. E118A – Deleted one Type “E” fixture in Room 401. Deleted one Type “L2” fixture in Room 401. Deleted one Type “L1” fixtures in Rooms 407, 408, 409, 410 and 411. Deleted two Type “L1” fixtures in Rooms 402 and 416. Added one Type “L1E” fixture in Rooms 407, 408, 409, 410 and 411. Added two Type “L1E” fixture in Rooms 402 and 416. Added one Type “L2E” fixture in Rooms 401.

4. ATTACHMENTS

a. Project Manual
    i. Section 012100
    ii. Section 093013

b. Drawings
    i. AD101A
    ii. AD102
    iii. AD103
    iv. AD104
    v. A102
    vi. A202
    vii. A301
    viii. A301A
    ix. A302
    x. A303

xi. A304
xii. A402
xiii. A502
xiv. A701
xv. A801
xvi. A803
xvii. E003
xviii. E004
xix. E004.1
xx. E005
xxi. E009.2
xxii. E009.3
xxiii. E012
xxiv. E013
xxv. E106
xxvi. E106A
xxvii. E116
xxviii. E117
xxix. E117A
xxx. E118A

End of Addendum No. 2

SECTION 012100 - ALLOWANCES

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 governing allowances.

B. Types of allowances include the following:

1. Unit-cost allowances.

C. Related Requirements:

1. Section 014000 "Quality Requirements" for procedures governing the use of allowances for field testing by an independent testing agency.

1.3 DEFINITIONS

A. Allowance is a quantity of work or dollar amount established in lieu of additional requirements, used to defer selection of actual materials and equipment to a later date when direction will be provided to Contractor. If necessary, additional requirements will be issued by Change Order.

1.4 SELECTION AND PURCHASE

A. At the earliest practical date after award of the Contract, advise Architect of the date when final selection, or purchase and delivery, of each product or system described by an allowance must be completed by the Owner to avoid delaying the Work.

B. At Architect's request, obtain proposals for each allowance for use in making final selections. Include recommendations that are relevant to performing the Work.

C. Purchase products and systems selected by Architect from the designated supplier.

1.5 ACTION SUBMITTALS

A. Submit proposals for purchase of products or systems included in allowances in the form specified for Change Orders.

1.6 INFORMATIONAL SUBMITTALS

A. Submit invoices or delivery slips to show actual quantities of materials delivered to the site for use in fulfillment of each allowance.

B. Submit time sheets and other documentation to show labor time and cost for installation of

allowance items that include installation as part of the allowance.

C. Coordinate and process submittals for allowance items in same manner as for other portions of the Work.

1.7 LUMP-SUM, UNIT-COST AND QUANTITY ALLOWANCES

A. Allowance shall include cost to Contractor of specific products and materials ordered by Owner or selected by Architect under allowance.

B. Unless otherwise indicated, Contractor's costs for receiving and handling at Project site, labor, installation, overhead and profit, and similar costs related to products and materials ordered by Owner or selected by Architect under allowance shall be included as part of the Contract Sum and not part of the allowance.

1.8 ADJUSTMENT OF ALLOWANCES

A. Allowance Adjustment: To adjust allowance amounts, prepare a Change Order proposal based on the difference between purchase amount and the allowance, multiplied by final measurement of work-in-place where applicable. If applicable, include reasonable allowances for cutting losses, tolerances, mixing wastes, normal product imperfections, and similar margins.

1. Include installation costs in purchase amount only where indicated as part of the allowance.
2. If requested, prepare explanation and documentation to substantiate distribution of overhead costs and other markups.
3. Submit substantiation of a change in scope of Work, if any, claimed in Change Orders related to unit-cost allowances.
4. Owner reserves the right to establish the quantity of work-in-place by independent quantity survey, measure, or count.

B. Submit claims for increased costs because of a change in scope or nature of the allowance described in the Contract Documents, whether for the purchase order amount or Contractor's handling, labor, installation, overhead, and profit.

1. Do not include Contractor's or subcontractor's indirect expense in the Change Order cost amount unless it is clearly shown that the nature or extent of Work has changed from what could have been foreseen from information in the Contract Documents.
2. No change to Contractor's indirect expense is permitted for selection of higher- or lower-priced materials or systems of the same scope and nature as originally indicated.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine products covered by an allowance promptly on delivery for damage or defects. Return

damaged or defective products to manufacturer for replacement.

3.2 PREPARATION

A. Coordinate materials and their installation for each allowance with related materials and installations to ensure that each allowance item is completely integrated and interfaced with related work.

3.3 SCHEDULE OF ALLOWANCES

A. Allowance No. 1: Unit-Cost Allowance: Include the sum of ***$4,260.00*** for explorative demolition and subsequent repairs/waterproofing improvements to the A/S Building connector where evidence of water intrusion has been visually observed as specified in Division 07 "Thermal and Moisture Protection" and as shown on Drawings.

END OF SECTION 012100

SECTION 093013 - CERAMIC TILING

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. Porcelain tile.
2. Waterproof membrane for thinset applications.
3. Stone thresholds.
4. Metal edge strips.

B. Related Requirements:

1. Section 079200 "Joint Sealants" for sealing of expansion, contraction, control, and isolation joints in tile surfaces.
2. Section 092900 "Gypsum Board" for cementitious backer units.

1.3 DEFINITIONS

A. General: Definitions in the ANSI A108 series of tile installation standards and in ANSI A137.1 apply to Work of this Section unless otherwise specified.

B. ANSI A108 Series: ANSI A108.01, ANSI A108.02, ANSI A108.1A, ANSI A108.1B, ANSI A108.1C, ANSI A108.4, ANSI A108.5, ANSI A108.6, ANSI A108.8, ANSI A108.9, ANSI A108.10, ANSI A108.11, ANSI A108.12, ANSI A108.13, ANSI A108.14, ANSI A108.15, ANSI A108.16, and ANSI A108.17, which are contained in its "Specifications for Installation of Ceramic Tile."

C. Module Size: Actual tile size plus joint width indicated.

D. Face Size: Actual tile size, excluding spacer lugs.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Samples for Verification:

1. Full-size units of each type and composition of tile and for each color and finish required.

1.5 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

B. Master Grade Certificates: For each shipment, type, and composition of tile, signed by tile manufacturer and Installer.

C. Product Certificates: For each type of product.

D. Product Test Reports: For tile-setting and -grouting products and certified porcelain tile.

1.6 QUALITY ASSURANCE

A. Installer Qualifications:

1. Installer is a five-star member of the National Tile Contractors Association or a Trowel of Excellence member of the Tile Contractors' Association of America.
2. Installer's supervisor for Project holds the International Masonry Institute's Foreman Certification.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver and store packaged materials in original containers with seals unbroken and labels intact until time of use. Comply with requirements in ANSI A137.1 for labeling tile packages.

B. Store tile and cementitious materials on elevated platforms, under cover, and in a dry location.

C. Store aggregates where grading and other required characteristics can be maintained and contamination can be avoided.

D. Store liquid materials in unopened containers and protected from freezing.

1.8 FIELD CONDITIONS

A. Environmental Limitations: Do not install tile until construction in spaces is complete and ambient temperature and humidity conditions are maintained at the levels indicated in referenced standards and manufacturer's written instructions.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Source Limitations for Tile: Obtain tile of each type and color or finish from single source or producer.

1. Obtain tile of each type and color or finish from same production run and of consistent quality in appearance and physical properties for each contiguous area.

B. Source Limitations for Setting and Grouting Materials: Obtain ingredients of a uniform quality for each mortar, adhesive, and grout component from single manufacturer and each aggregate from single source or producer.

1. Obtain setting and grouting materials, except for unmodified Portland cement and aggregate, from single manufacturer.

C. Source Limitations for Other Products: Obtain each of the following products specified in this Section from a single manufacturer:

1. Stone thresholds.
2. Cementitious backer units.
3. Metal edge strips.

2.2 PRODUCTS, GENERAL

A. ANSI Ceramic Tile Standard: Provide tile that complies with ANSI A137.1 for types, compositions, and other characteristics indicated.

1. Provide tile complying with Standard grade requirements.

B. ANSI Standards for Tile Installation Materials: Provide materials complying with ANSI A108.02, ANSI standards referenced in other Part 2 articles, ANSI standards referenced by TCNA installation methods specified in tile installation schedules, and other requirements specified.

C. Factory Blending: For tile exhibiting color variations within ranges, blend tile in factory and package so tile units taken from one package show same range in colors as those taken from other packages and match approved Samples.

D. Mounting: For factory-mounted tile, provide back- or edge-mounted tile assemblies as standard with manufacturer unless otherwise indicated.

2.3 TILE PRODUCTS, GENERAL

A. Basis-of-Design Product: Subject to compliance with requirements, provide Dal-Tile Corporation, Veranda Solids series, or comparable products by one of the following:

1. American Marazzi Tile, Inc.
2. American Olean Corporation.
3. Crossville, Inc.
4. Florida Tile, Inc.
5. Florim USA.
6. Interceramic.
7. Iris US.
8. Porcelanite.
9. Seneca Tiles, Inc.
10. Certification: Tile certified by the Porcelain Tile Certification Agency.

2.4 TILE PRODUCTS, TYPES

A. Large Format Porcelain Floor Tile (PFT-1): Dal-Tile Corporation

1. Face Size: ***18 by 18 inches***.
2. Thickness: 3/8 inch.
3. Face: Textured with square edges.
4. Finish: Unpolished
5. Dynamic Coefficient of Friction: Not less than 0.42.
6. Tile Color and Pattern: As selected by Architect from manufacturer's full range.
7. Grout Color: As selected by Architect from manufacturer's full range.

B. Porcelain Floor Tile (CT-1): Dal-Tile Corporation

1. Face Size: 2 by 2 inches.
2. Thickness: 5/16 inch.
3. Face: Plain with square or cushion edges.
4. Dynamic Coefficient of Friction: Not less than 0.60.
5. Tile Color and Pattern: As selected by Architect from manufacturer's full range.
6. Grout Color: As selected by Architect from manufacturer's full range.
7. Trim Units: Coordinated with sizes and coursing of adjoining flat tile where applicable. Provide shapes as follows, selected from manufacturer's standard shapes:

    a. Porcelain Tile Base (CT-2): Coved with surface bullnose top edge, face size 6 by 6 inches. (at instances of wall tile and base combinations, top edge to be square) Outside coved corners with surface bullnose top edge, face size 1 by 6 inches.

C. Porcelain Wall Tile (CT-3): Dal-Tile Corporation

1. Face Size: 6 by 6 inches.
2. Thickness: 5/16 inch.
3. Wearing Surface: Nonabrasive, smooth.
4. Dynamic Coefficient of Friction: Not less than 0.42.
5. Finish: Mat, opaque glaze.
6. Tile Color and Pattern: As selected by Architect from manufacturer's full range.
7. Grout Color: As selected by Architect from manufacturer's full range.
8. Trim Units: Coordinated with sizes and coursing of adjoining flat tile where applicable. Provide shapes as follows, selected from manufacturer's standard shapes.

D. Porcelain Wall Tile (CT-4): Dal-Tile Corporation

1. Face Size: 3 by 6 inches.
2. Thickness: 5/16 inch.
3. Wearing Surface: Nonabrasive, smooth.
4. Dynamic Coefficient of Friction: Not less than 0.42.
5. Finish: Mat, opaque glaze.
6. Tile Color and Pattern: As selected by Architect from manufacturer's full range.
7. Grout Color: As selected by Architect from manufacturer's full range.
8. Trim Units: Coordinated with sizes and coursing of adjoining flat tile where applicable. Provide shapes as follows, selected from manufacturer's standard shapes.

2.5 WATERPROOF MEMBRANE

A. General: Manufacturer's standard product that complies with ANSI A118.10 and is recommended by the manufacturer for the application indicated. Include reinforcement and accessories recommended by manufacturer.

2.6 THRESHOLDS

A. General: Fabricate to sizes and profiles indicated or required to provide transition between adjacent floor finishes.

1. Bevel edges at 1:2 slope, with lower edge of bevel aligned with or up to 1/16 inch above adjacent floor surface. Finish bevel to match top surface of threshold. Limit height of threshold to 1/2 inch or less above adjacent floor surface.

B. Marble Thresholds: ASTM C 503/C 503M, with a minimum abrasion resistance of 12 according to ASTM C 1353 or ASTM C 241/C 241M and with honed finish.

1. Description: Uniform, fine- to medium-grained white stone with gray veining.

2.7 SETTING MATERIALS

A. Latex-Portland Cement Mortar (Thinset): ANSI A118.4.

B. 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:

1. Ardex Americas.
2. Boiardi Products Corporation; a QEP company.
3. Bonsal American; an Oldcastle company.
4. Bostik, Inc.
5. C-Cure.
6. Custom Building Products.
7. Jamo Inc.
8. Laticrete International, Inc.
9. MAPEI Corporation.
10. Merkrete Systems; Parex USA, Inc.
11. Southern Grouts & Mortars, Inc.
12. Summitville Tiles, Inc.
13. TEC; H. B. Fuller Construction Products Inc.

C. Provide prepackaged, dry-mortar mix containing dry, redispersible, vinyl acetate or acrylic additive to which only water must be added at Project site.

D. For wall applications, provide mortar that complies with requirements for nonsagging mortar in addition to the other requirements in ANSI A118.4.

2.8 GROUT MATERIALS

A. High-Performance Tile Grout: ANSI A118.7.

B. 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:

1. Ardex Americas.
2. Boiardi Products Corporation; a QEP company.
3. Bonsal American; an Oldcastle company.
4. Bostik, Inc.
5. C-Cure.
6. Custom Building Products.
7. Jamo Inc.
8. Laticrete International, Inc.
9. MAPEI Corporation.
10. Southern Grouts & Mortars, Inc.
11. Summitville Tiles, Inc.
12. TEC; H. B. Fuller Construction Products Inc.

C. Polymer Type: Ethylene vinyl acetate or acrylic additive, in dry, redispersible form, prepackaged with other dry ingredients.

2.9 MISCELLANEOUS MATERIALS

A. Trowelable Underlayments and Patching Compounds: Latex-modified, portland cement-based formulation provided or approved by manufacturer of tile-setting materials for installations indicated.

B. Vapor-Retarder Membrane: Polyethylene sheeting, ASTM D 4397, 4.0 mils thick.

C. Metal Edge Strips: Angle or L-shaped, height to match tile and setting-bed thickness, metallic or combination of metal and PVC or neoprene base, designed specifically for flooring applications; stainless-steel, ASTM A 666, 300 Series exposed-edge material.

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. Blanke Corporation.
b. Ceramic Tool Company, Inc.
c. Schluter Systems L.P.

D. Tile Cleaner: A neutral cleaner capable of removing soil and residue without harming tile and grout surfaces, specifically approved for materials and installations indicated by tile and grout manufacturers.

E. Grout Sealer: Manufacturer's standard product for sealing grout joints and that does not change color or appearance of grout.

1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:

a. Bonsal American, an Oldcastle company; Grout Sealer.

b. Custom Building Products; Surfaceguard Sealer.
c. Jamo Inc.; Surfaceguard Sealer.
d. Southern Grouts & Mortars, Inc.; Grout Sealer.
e. Summitville Tiles, Inc.; SL-15, Invisible Seal.
f. TEC, H. B. Fuller Construction Products Inc.; Grout Guard Plus Penetrating Grout Sealer.

2. Grout sealers shall comply with requirements of FloorScore certification.

2.10 MIXING MORTARS AND GROUT

A. Mix mortars and grouts to comply with referenced standards and mortar and grout manufacturers' written instructions.

B. Add materials, water, and additives in accurate proportions.

C. Obtain and use type of mixing equipment, mixer speeds, mixing containers, mixing time, and other procedures to produce mortars and grouts of uniform quality with optimum performance characteristics for installations indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions where tile will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

1. Verify that substrates for setting tile are firm; dry; clean; free of coatings that are incompatible with tile-setting materials, including curing compounds and other substances that contain soap, wax, oil, or silicone; and comply with flatness tolerances required by ANSI A108.01 for installations indicated.
2. Verify that concrete substrates for tile floors installed with thinset mortar comply with surface finish requirements in ANSI A108.01 for installations indicated.

a. Verify that protrusions, bumps, and ridges have been removed by sanding or grinding.

3. Verify that installation of grounds, anchors, recessed frames, electrical and mechanical units of work, and similar items located in or behind tile has been completed.
4. Verify that joints and cracks in tile substrates are coordinated with tile joint locations; if not coordinated, adjust joint locations in consultation with Architect.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Fill cracks, holes, and depressions in concrete substrates for tile floors installed with thinset mortar with trowelable leveling and patching compound specifically recommended by tile-setting material manufacturer.

B. Where indicated, prepare substrates to receive waterproofing by applying a reinforced mortar bed that complies with ANSI A108.1A and is sloped 1/4 inch per foot toward drains.

C. Blending: For tile exhibiting color variations, verify that tile has been factory blended and packaged so tile units taken from one package show same range of colors as those taken from other packages and match approved Samples. If not factory blended, either return to manufacturer or blend tiles at Project site before installing.

3.3 CERAMIC TILE INSTALLATION

A. Comply with TCNA's "Handbook for Ceramic, Glass, and Stone Tile Installation" for TCNA installation methods specified in tile installation schedules. Comply with parts of the ANSI A108 series "Specifications for Installation of Ceramic Tile" that are referenced in TCNA installation methods, specified in tile installation schedules, and apply to types of setting and grouting materials used.

1. For the following installations, follow procedures in the ANSI A108 series of tile installation standards for providing 95 percent mortar coverage:

    a. Tile floors in wet areas.
    b. Tile floors consisting of tiles 8 by 8 inches or larger.

B. Extend tile work into recesses and under or behind equipment and fixtures to form complete covering without interruptions unless otherwise indicated. Terminate work neatly at obstructions, edges, and corners without disrupting pattern or joint alignments.

C. Accurately form intersections and returns. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cut edges of tile abutting trim, finish, or built-in items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so plates, collars, or covers overlap tile.

D. Provide manufacturer's standard trim shapes where necessary to eliminate exposed tile edges.

E. Where accent tile differs in thickness from field tile, vary setting-bed thickness so that tiles are flush.

F. Jointing Pattern: Lay tile in grid pattern unless otherwise indicated. Lay out tile work and center tile fields in both directions in each space or on each wall area. Lay out tile work to minimize the use of pieces that are less than half of a tile. Provide uniform joint widths unless otherwise indicated.

1. Where adjoining tiles on floor, base, walls, or trim are specified or indicated to be same size, align joints.

2. Where tiles are specified or indicated to be whole integer multiples of adjoining tiles on floor, base, walls, or trim, align joints unless otherwise indicated.

G. Joint Widths: Unless otherwise indicated, install tile with the following joint widths:

1. Porcelain Tile: 1/8 inch.

H. Lay out tile wainscots to dimensions indicated or to next full tile beyond dimensions indicated.

I. Expansion Joints: Provide expansion joints and other sealant-filled joints, including control, contraction, and isolation joints, where indicated. Form joints during installation of setting materials, mortar beds, and tile. Do not saw-cut joints after installing tiles.

1. Where joints occur in concrete substrates, locate joints in tile surfaces directly above them.

J. Stone Thresholds: Install stone thresholds in same type of setting bed as adjacent floor unless otherwise indicated.

K. Metal Edge Strips: Install where exposed edge of tile flooring meets carpet, wood, or other flooring that finishes flush with or below top of tile and no threshold is indicated.

L. Grout Sealer: Apply grout sealer to grout joints in tile floors according to grout-sealer manufacturer's written instructions. As soon as grout sealer has penetrated grout joints, remove excess sealer and sealer from tile faces by wiping with soft cloth.

3.4 TILE BACKING PANEL INSTALLATION

A. Install panels and treat joints according to ANSI A108.11 and manufacturer's written instructions for type of application indicated. Use modified dry-set mortar for bonding material unless otherwise directed in manufacturer's written instructions.

3.5 WATERPROOFING INSTALLATION

A. Install waterproofing to comply with ANSI A108.13 and manufacturer's written instructions to produce waterproof membrane of uniform thickness that is bonded securely to substrate.

B. Allow waterproofing to cure and verify by testing that it is watertight before installing tile or setting materials over it.

3.6 ADJUSTING AND CLEANING

A. Remove and replace tile that is damaged or that does not match adjoining tile. Provide new matching units, installed as specified and in a manner to eliminate evidence of replacement.

B. Cleaning: On completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter.

1. Remove grout residue from tile as soon as possible.

2. Clean grout smears and haze from tile according to tile and grout manufacturer's written instructions but no sooner than 10 days after installation. Use only cleaners recommended by tile and grout manufacturers and only after determining that cleaners are safe to use by testing on samples of tile and other surfaces to be cleaned. Protect metal surfaces and plumbing fixtures from effects of cleaning. Flush surfaces with clean water before and after cleaning.

3.7 PROTECTION

A. Protect installed tile work with kraft paper or other heavy covering during construction period to prevent staining, damage, and wear. If recommended by tile manufacturer, apply coat of neutral protective cleaner to completed tile walls and floors.

B. Prohibit foot and wheel traffic from tiled floors for at least seven days after grouting is completed.

C. Before final inspection, remove protective coverings and rinse neutral protective cleaner from tile surfaces.

3.8 INTERIOR CERAMIC TILE INSTALLATION SCHEDULE

A. Interior Floor Installations, Concrete Subfloor:

1. Ceramic Tile Installation: TCNA F113; thinset mortar.

   a. Thinset Mortar: Latex- portland cement mortar.
   b. Grout: High-performance unsanded grout.

B. Interior Wall Installations, Metal Studs:

1. Ceramic Tile Installation: TCNA W244C or TCNA W244F; thinset mortar on cementitious backer units or fiber-cement backer board.

   a. Thinset Mortar: Latex-portland cement mortar.
   b. Grout: High-performance unsanded grout.

C. Interior Wall Installations, Concrete Masonry Units:

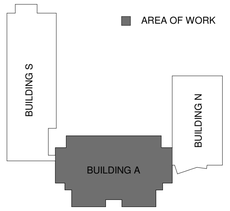
1. Ceramic Tile Installation: TCNA W202; thinset mortar on concrete masonry units.

   a. Thinset Mortar: Latex-portland cement mortar.
   b. Grout: High-performance unsanded grout.

END OF SECTION 093013

DEMOLITION LEGEND

- AREAS NOT IN CONTRACT
- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE REMOVED
- Name / 101 — ROOM NAME AND NUMBER
- 01 — DEMOLITION KEYNOTE
- EXISTING DOOR TO BE REMOVED



KEY PLAN

DEMOLITION KEYNOTES

01 EXISTING WALL TO BE COMPLETELY REMOVED AND DISCARDED; COORDINATE WITH CONSTRUCTION PLAN
02 EXISTING WALL MOUNTED FIRE EXTINGUISHER TO BE REMOVED AND SAVED FOR RELOCATION
03 EXISTING PLUMBING FIXTURES TO BE REMOVED AND DISCARDED, INCLUDING BUT NOT LIMITED TO SINKS, TOILETS, AND URINALS; REFER TO PLUMBING DRAWINGS
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07 PORTION OF EXISTING WALL TO BE REMOVED FOR NEW OPENING; COORDINATE SIZE AND LOCATION WITH CONSTRUCTION PLAN. PROVIDE TEMPORARY SHORING AS NEEDED.
08 EXISTING FLOOR FINISH TO BE COMPLETELY REMOVED, INCLUDING BUT NOT LIMITED TO FLOOR FINISH MATERIAL, WALL BASE, AND ADHESIVE; PREPARE SLAB TO RECEIVE NEW FINISH
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10 EXISTING LOCKERS AND LOCKER BASE TO BE REMOVED AND DISCARDED
11 ALTERNATE 11: EXISTING DOOR AND HARDWARE TO BE REMOVED AND DISCARDED; EXISTING FRAME TO REMAIN. BASE BID: EXISTING DOOR AND FRAME TO REMAIN; COORDINATE HARDWARE WITH DOOR SCHEDULE
12 ALTERNATE 8: REMOVE PAINTED FLOOR FINISH AT STAIRS AND LANDINGS, TYPICAL. PREPARE CONCRETE TO RECEIVE NEW FINISH
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25 PROVIDE TEMPORARY CONSTRUCTION PARTITION WITH ACCESS DOOR, OR SECURE EXISTING DOORS AND PROVIDE CONSTRUCTION SIGNAGE AS APPROPRIATE
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18. PROVIDE RECORD DRAWINGS CONSISTING OF REDLINED PLANS AT PROJECT CLOSE-OUT WHICH IDENTIFY AND ACCURATELY LOCATE CAPPED UTILITIES AND OTHER STRUCTURAL, ELECTRICAL, PLUMBING OR MECHANICAL CONDITIONS.
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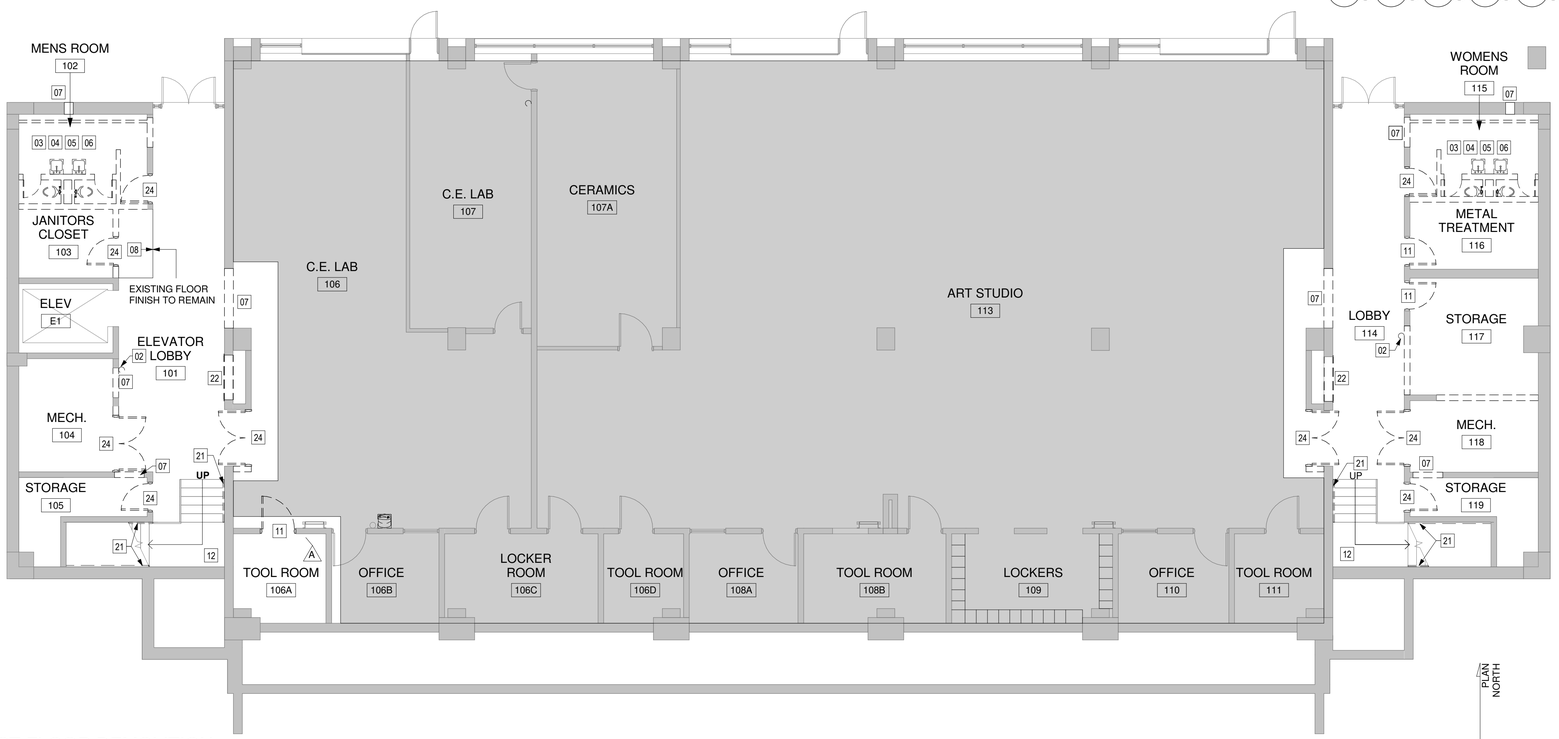

1 FIRST FLOOR DEMOLITION PLAN

8' 4' 0' 8' SCALE: 1/8" = 1'-0"

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

BECKER MORGAN GROUP

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Dover, DE 19904
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ERNEST W. OLDS — Registered Architect — 10595 — 9/3/20 — North Carolina — WILMINGTON, NC

BECKER MORGAN GROUP, INC. — Professional Architectural Corporation — 51922 — North Carolina — WILMINGTON, NC

CAPE FEAR COMMUNITY COLLEGE

PROJECT TITLE

RENOVATIONS OF GALEHOUSE (A BUILDING), MCLEOD (S BUILDING), AND NATURAL SCIENCES (N BUILDING)

411 N Front Street
Wilmington, NC 28401
SCO#17-18154-01A;NCCCS# 2352

SHEET TITLE

FIRST FLOOR DEMOLITION PLAN

ISSUE BLOCK

Mark	Date	Description
B	09/03/2020	ADDENDUM #2
A	08/28/2020	ADDENDUM #1
0	08/14/2020	ISSUED FOR BID

PROJECT NO: 2018023.00
DATE: 8/14/2020
SCALE: As indicated
DRAWN BY: VSC PROJ MGR: DCW

AD101

9/3/2020 6:47:30 PM 2018023.00 CFCC ASN BASE BID_detached.rvt

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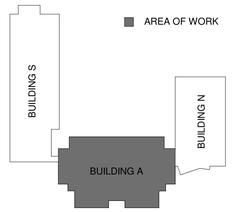

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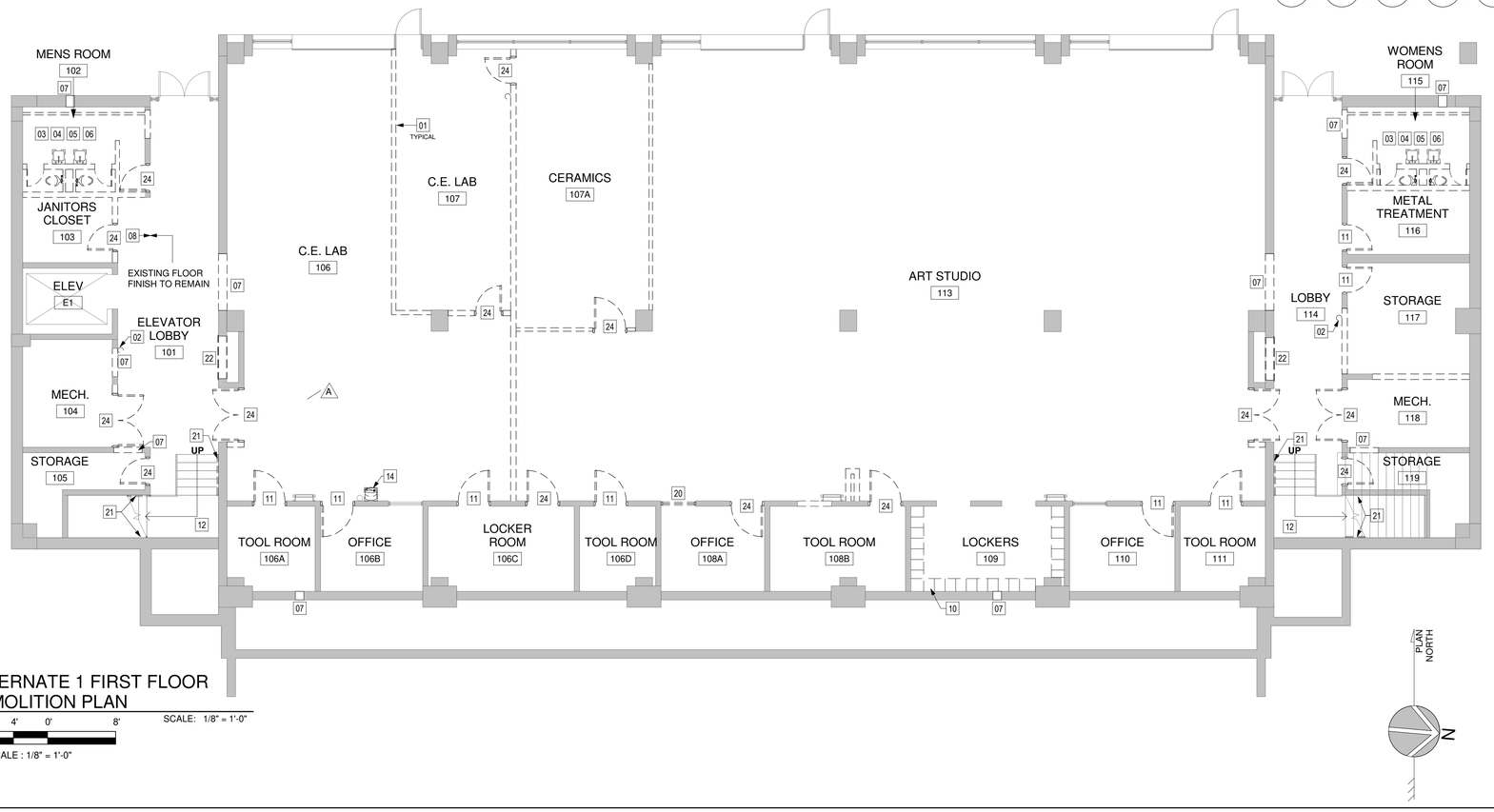

1 ALTERNATE 1 FIRST FLOOR DEMOLITION PLAN

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

8' 4' 0' 8'

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BECKER MORGAN GROUP, INC. — Professional Architectural Corporation — 51922 — North Carolina — WILMINGTON, NC

CAPE FEAR COMMUNITY COLLEGE

PROJECT TITLE

RENOVATIONS OF GALEHOUSE (A BUILDING), MCLEOD (S BUILDING), AND NATURAL SCIENCES (N BUILDING)

411 N Front Street
Wilmington, NC 28401
SCO#17-18154-01A;NCCCS# 2352

SHEET TITLE

ALTERNATE 1 FIRST FLOOR DEMOLITION PLAN

ISSUE BLOCK

Mark	Date	Description
B	09/03/2020	ADDENDUM #2
A	08/28/2020	ADDENDUM #1
0	08/14/2020	ISSUED FOR BID

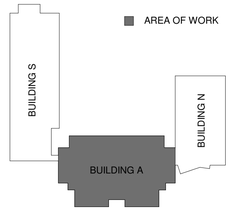
PROJECT NO: 2018023.00
DATE: 8/14/2020
SCALE: As indicated
DRAWN BY: VSC | PROJ MGR: DCW

AD101A

9/3/2020 6:48:31 PM 2018023.00 CFCC ASN BASE BID_detached.rvt

DEMOLITION LEGEND

- AREAS NOT IN CONTRACT
- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE REMOVED
- Name 101 — ROOM NAME AND NUMBER
- 01 — DEMOLITION KEYNOTE
- EXISTING DOOR TO BE REMOVED



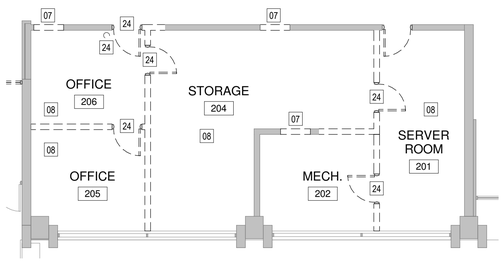
KEY PLAN

DEMOLITION KEYNOTES

01 EXISTING WALL TO BE COMPLETELY REMOVED AND DISCARDED; COORDINATE WITH CONSTRUCTION PLAN
02 EXISTING WALL MOUNTED FIRE EXTINGUISHER TO BE REMOVED AND SAVED FOR RELOCATION
03 EXISTING PLUMBING FIXTURES TO BE REMOVED AND DISCARDED, INCLUDING BUT NOT LIMITED TO SINKS, TOILETS, AND URINALS; REFER TO PLUMBING DRAWINGS
04 EXISTING FLOOR FINISH TO BE COMPLETELY REMOVED AND DISCARDED, INCLUDING BUT NOT LIMITED TO FLOOR TILE, SETTING MATERIAL, AND WALL BASE; PREPARE SLAB TO RECEIVE NEW FINISH
05 EXISTING WALL TILE TO BE COMPLETELY REMOVED AND DISCARDED, INCLUDING BUT NOT LIMITED TO TILE AND SETTING MATERIAL; PREPARE SUBSTRATE TO RECEIVE NEW FINISH
06 EXISTING WALL MOUNTED TOILET ACCESSORIES TO BE REMOVED AND DISCARDED, INCLUDING BUT NOT LIMITED TO TOILET PAPER DISPENSERS, SANITARY NAPKIN RECEPTACLES, PAPER TOWEL DISPENSERS, ELECTRIC HAND DRYERS, SOAP DISPENSERS, ADA GRAB BARS, AND MIRRORS
07 PORTION OF EXISTING WALL TO BE REMOVED FOR NEW OPENING; COORDINATE SIZE AND LOCATION WITH CONSTRUCTION PLAN. PROVIDE TEMPORARY SHORING AS NEEDED.
08 EXISTING FLOOR FINISH TO BE COMPLETELY REMOVED, INCLUDING BUT NOT LIMITED TO FLOOR FINISH MATERIAL, WALL BASE, AND ADHESIVE; PREPARE SLAB TO RECEIVE NEW FINISH
09 EXISTING DOORS AND HARDWARE TO BE REMOVED AND DISCARDED; EXISTING STOREFRONT SYSTEM TO REMAIN
10 EXISTING LOCKERS AND LOCKER BASE TO BE REMOVED AND DISCARDED
11 ALTERNATE 11: EXISTING DOOR AND HARDWARE TO BE REMOVED AND DISCARDED; EXISTING FRAME TO REMAIN. BASE BID: EXISTING DOOR AND FRAME TO REMAIN; COORDINATE HARDWARE WITH DOOR SCHEDULE
12 ALTERNATE 8: REMOVE PAINTED FLOOR FINISH AT STAIRS AND LANDINGS, TYPICAL. PREPARE CONCRETE TO RECEIVE NEW FINISH
13 EXISTING GLASS ENTRANCE SYSTEM TO BE REMOVED AND DISCARDED.
14 EXISTING DRINKING FOUNTAIN TO BE REMOVED, REFER TO PLUMBING DRAWINGS
15 EXISTING LOUVER TO BE REMOVED AND DISCARDED
16 PERFORM EXPLORATORY DEMOLITION AND/OR X-RAY EXISTING CONSTRUCTION TO DETERMINE CAUSES OF KNOWN WATER INTRUSION
17 EXISTING MILLWORK TO BE COMPLETELY REMOVED AND DISCARDED
18 EXISTING TERRAZZO FLOOR FINISH TO BE COMPLETELY REMOVED AND DISCARDED, INCLUDING BUT NOT LIMITED TO SETTING MATERIAL, AND WALL BASE; PREPARE SLAB TO RECEIVE NEW FINISH
19 EXISTING COUNTERTOP AND TRANSACTION WINDOW TO BE REMOVED AND DISCARDED
20 EXISTING INTERIOR WINDOWS TO BE REMOVED AND DISCARDED
21 EXISTING HANDRAIL AND BRACKETS TO BE REMOVED. PATCH WALL AND PREP FOR NEW HANDRAIL INSTALLATION
22 EXISTING DISPLAY CASE TO BE REMOVED, INFILL WALL WITH LIKE MATERIALS
23 PORTION OF EXISTING WALL TO BE REMOVED FROM EDGE OF EXISTING BRICK TO EDGE OF EXISTING WALL TILE. COORDINATE WITH PLUMBING DRAWINGS
24 EXISTING DOOR, FRAME AND HARDWARE TO BE REMOVED AND DISCARDED
25 PROVIDE TEMPORARY CONSTRUCTION PARTITION WITH ACCESS DOOR, OR SECURE EXISTING DOORS AND PROVIDE CONSTRUCTION SIGNAGE AS APPROPRIATE
26 PORTION OF EXISTING GLAZING TO BE REMOVED FOR NEW OPENING; COORDINATE SIZE AND LOCATION WITH CONSTRUCTION PLAN

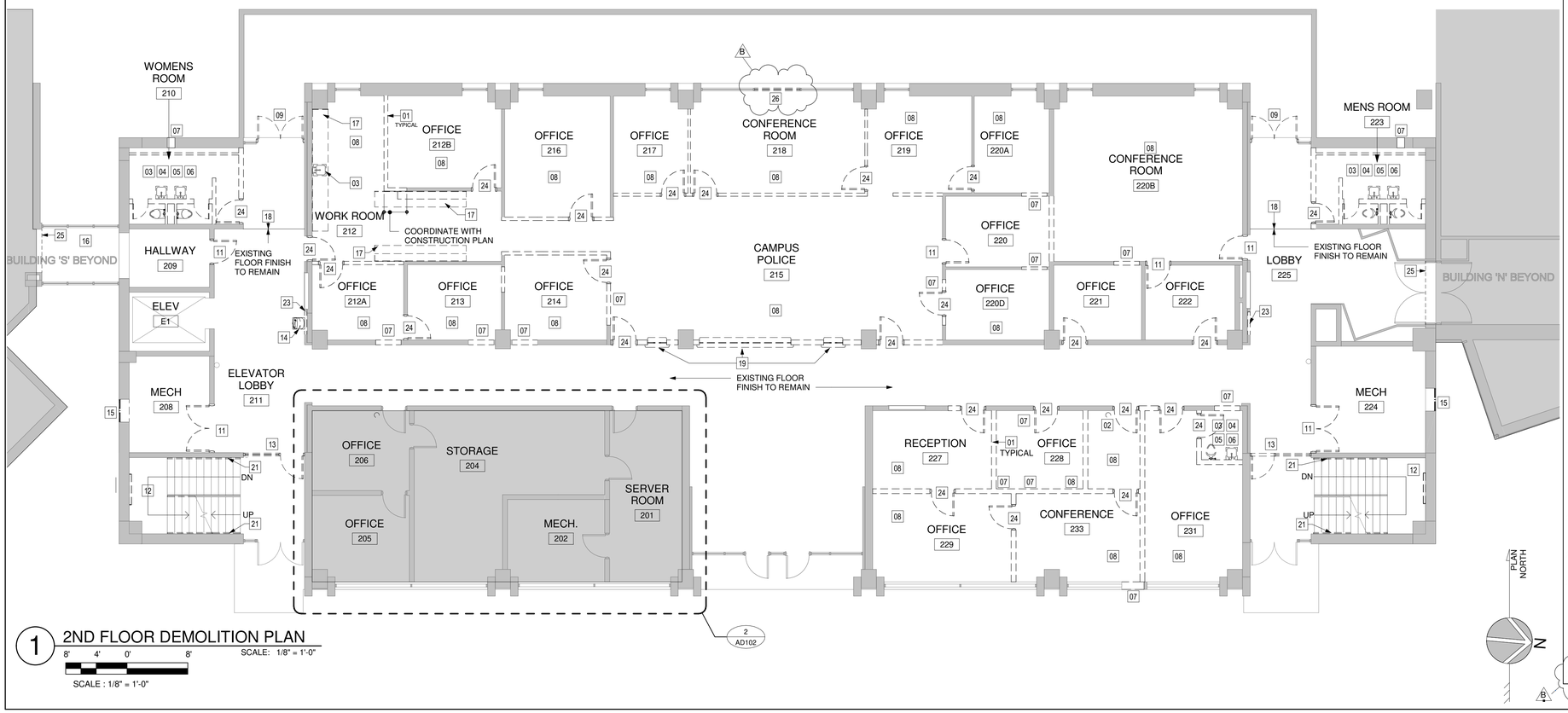
GENERAL DEMOLITION NOTES

1. THE DEMOLITION SHOWN ON THIS PLAN IS DIAGRAMMATIC AND INTENDED TO SHOW THE GENERAL EXTENT OF THE WORK ONLY. CONTRACTOR SHALL INCLUDE ALL DEMOLITION, WHETHER CALLED FOR OR NOT, THAT IS NECESSARY TO ACCOMPLISH THE INTENT OF THE PLANS & SPECIFICATIONS.
2. BEFORE CONSTRUCTION COMMENCES, TESTING FOR THE PRESENCE OF HAZARDOUS MATERIALS SHALL BE PERFORMED BY AN ENGINEER LICENSED IN THE STATE OF NORTH CAROLINA. THE FINDINGS OF THIS TEST SHALL BE KEPT ON SITE DURING CONSTRUCTION AT ALL TIMES. BECKER MORGAN GROUP AND ITS CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE IDENTIFICATION, DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO, HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE. A LICENSED ABATEMENT COMPANY SHALL PERFORM WORK RELATED TO REMOVAL OF ANY HAZARDOUS MATERIALS.
3. ALL DEMOLITION WORK SHALL BE PERFORMED WITH MINIMUM DAMAGE TO EXISTING WORK TO REMAIN. EFFECTIVE MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT ALL 'EXISTING TO REMAIN ELEMENTS', INCLUDING BUT NOT LIMITED TO, EXISTING STRUCTURES, FINISHES, PARTITIONS, BUILDING SYSTEMS, AND EQUIPMENT. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGE INCURRED DURING DEMOLITION AND/OR CONSTRUCTION.
4. PROVISIONS SHALL BE MADE TO ALLEVIATE THE SPREAD OF DEBRIS AND DUST TO ADJACENT PROPERTY OWNERS. THE PROPERTY SHALL BE KEPT AS CLEAN AS POSSIBLE AT ALL TIMES. SWEEP THE PROJECT SITE BROOM CLEAN AND CHANGE FILTERS ON AIR-HANDLING EQUIPMENT UPON COMPLETION OF DEMOLITION.
5. ALL DEBRIS AND MATERIALS REMOVED FROM THE BUILDING SHALL BE DISPOSED OF OFF SITE IN A LEGAL MANNER. NO RECLAIMED LUMBER OR MATERIALS SHALL BE RE-USED EXCEPT AS SPECIFICALLY APPROVED BY THE ARCHITECT OR OWNER. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
6. WHERE DEMOLITION AND CUTTING WORK HAS OCCURRED OR WHERE EXISTING SURFACES, MATERIALS OR OTHER ITEMS HAVE BEEN DAMAGED OR DISTURBED, THE SAID SURFACES AND AREAS SHALL BE CAREFULLY CLOSED UP, PATCHED AND FINISHED, AND OR RESTORED AS REQUIRED TO ACHIEVE A 'LIKE NEW' CONDITION, CONTIGUOUS TO EXISTING SURROUNDING SURFACES, WITH NO VISIBLE EVIDENCE OF PATCHING OR REPAIR.
7. DO NOT CUT AND PATCH WORK EXPOSED ON THE BUILDING'S EXTERIOR OR ITS OCCUPIED SPACES IN A MANNER WHICH WOULD, IN THE ARCHITECT'S OPINION, RESULT IN LESSENING THE BUILDING'S AESTHETIC QUALITIES. DO NOT CUT AND PATCH WORK IN A MANNER THAT WOULD RESULT IN SUBSTANTIAL VISUAL EVIDENCE OF CUT AND PATCH WORK. REMOVE AND REPLACE WORK JUDGED BY THE ARCHITECT TO BE CUT AND PATCHED IN A VISUALLY UNSATISFACTORY MANNER WITHOUT EXTRA CHARGE.
8. WHERE EXISTING FINISHES ARE SLATED FOR REMOVAL, PREPARE ALL SURFACES TO RECEIVE NEW FINISHES. ALL 'EXISTING TO REMAIN' PARTITIONS WITHIN THE PROJECT SCOPE SHALL BE REPAIRED TO 'LIKE NEW' CONDITION, OR AS NECESSARY TO PREPARE SURFACE TO RECEIVE NEW FINISH.
9. DO NOT REMOVE ANY STRUCTURAL COMPONENTS, INCLUDING BUT NOT LIMITED TO, COLUMNS, BEAMS, JOISTS, LOAD-BEARING WALLS OR SUPPORTS. CAREFULLY REMOVE INTERIOR PARTITIONS ONLY. PROVIDE AND MAINTAIN INTERIOR SHORING, BRACING OR STRUCTURAL SUPPORT TO PRESERVE STABILITY AND PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF ITEMS TO BE SELECTIVELY DEMOLISHED AND ITEMS WHICH ARE IMMEDIATELY ADJACENT TO THOSE BEING REMOVED.
10. WHERE EXISTING ELECTRICAL WORK NEEDS TO BE ABANDONED, REMOVE WIRE FROM OUTLET BACK TO ELECTRICAL PANEL OR SOURCE AND MAKE SAFE. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICIAN; REFER TO ELECTRICAL DRAWINGS IF APPLICABLE.
11. WHERE EXISTING PLUMBING WORK NEEDS TO BE ABANDONED, REMOVE ALL VENT STACK PIPING AND REPAIR ROOF PENETRATIONS. REMOVE ALL OVERHEAD WATER LINES AND CAP AT SOURCE. PRIOR TO DEMOLITION, CAREFULLY VERIFY IF LINES CAN BE REUSED AS PART OF THE NEW BUILD-OUT. ALL UNDERFLOOR SANITARY AND WATER LINES SHALL BE CAPPED BELOW FLOOR. VERIFY ALL WATER LINES HAVE BEEN TURNED OFF PRIOR TO WORK. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBER; REFER TO PLUMBING DRAWINGS IF APPLICABLE.
12. WHERE EXISTING VENTILATION OR AIR CONDITIONING NEEDS TO BE ABANDONED, REMOVE ALL EXHAUST AND OUTSIDE AIR DUCTS AS REQUIRED. ROOF-TOP EQUIPMENT SHALL BE REMOVED AND ROOF OPENINGS DRIED IN TO PREVENT WATER PENETRATION INTO THE SPACE. ALL WORK SHALL BE PERFORMED BY A LICENSED MECHANICAL CONTRACTOR; REFER TO MECHANICAL DRAWINGS IF APPLICABLE.
13. WHERE EXISTING GAS LINES OR SERVICE NEEDS TO BE ABANDONED, CAREFULLY REMOVE ALL PIPING, SHUT-OFF VALVES AND FITTINGS AS REQUIRED. GAS METER AND REGULATOR SHALL BE REMOVED BY UTILITY AUTHORITY. ALL WORK SHALL BE PERFORMED BY A LICENSED SUB-CONTRACTOR.
14. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL EXITS. EXIT LIGHTING, FIRE PROTECTION DEVICES, AND ALARMS TO CONFORM TO LOCAL BUILDING CODE REQUIREMENTS.
15. LIMIT USE OF THE PREMISES TO CONSTRUCTION ACTIVITIES IN AREAS INDICATED IN SCOPE OF PROJECT. ALLOW OWNER OCCUPANCY AND USE BY BUILDING'S MAINTENANCE AND SERVICE PERSONNEL AT ALL TIMES.
16. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, PLUMBING OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OF DESIGN ARE ENCOUNTERED, INVESTIGATE AND MEASURE THE NATURE AND EXTENT OF THE CONFLICT. PROMPTLY SUBMIT A WRITTEN REPORT TO THE ARCHITECT BEFORE PROCEEDING WITH DEMOLITION ACTIVITIES.
17. PROVIDE THE OWNER WITH ADVANCE NOTICE AND OBTAIN APPROVAL FOR ACTIVITIES THAT COULD INTERRUPT OR IMPACT THE USE OR OPERATION OF THE EXISTING BUILDINGS/ FACILITIES.. DO NOT START DEMOLITION UNTIL UTILITY DISCONNECTING AND SEALING HAVE BEEN COMPLETED AND VERIFIED IN WRITING. REFER TO THE PROJECT MANUAL AND COORDINATE WITH THE OWNER TO DETERMINE THEIR SPECIFIC ADVANCE NOTIFICATION REQUIREMENTS.
18. PROVIDE RECORD DRAWINGS CONSISTING OF REDLINED PLANS AT PROJECT CLOSE-OUT WHICH IDENTIFY AND ACCURATELY LOCATE CAPPED UTILITIES AND OTHER STRUCTURAL, ELECTRICAL, PLUMBING OR MECHANICAL CONDITIONS.
19. ALL FLOOR FINISHES ARE EXISTING TO REMAIN; TYPICAL THROUGHOUT, UNLESS OTHERWISE NOTED.
20. ALL CEILINGS ARE EXISTING TO REMAIN, EXCEPT IN AREAS SPECIFICALLY NOTED ON THE DRAWINGS; TYPICAL THROUGHOUT, UNLESS OTHERWISE NOTED.
21. ALL EXISTING DOORS, HARDWARE, AND FRAMES ARE EXISTING TO REMAIN; TYPICAL THROUGHOUT, UNLESS OTHERWISE NOTED.
22. GC TO REMOVE ALL WALL-MOUNTED ACCESSORIES PRIOR TO PAINTING, INCLUDING BUT NOT LIMITED TO CHALKBOARDS, WHITEBOARDS, TACKBOARDS, PROJECTION SCREENS, ETC. CHALKBOARDS TO BE DISCARDED, ALL OTHER ACCESSORIES TO BE SALVAGED FOR RE-INSTALLATION. PATCH HOLES AND PREPARE WALL SURFACES TO RECEIVE NEW FINISH. COORDINATE RE-INSTALLATION OF SALVAGED ACCESSORIES WITH CONSTRUCTION PLAN.
23. GC TO REMOVE AND DISCARD ALL EXISTING ROOM SIGNAGE.
24. ALL EXISTING WINDOW BLINDS ARE EXISTING TO REMAIN.



2 ALTERNATE 2 PARTIAL 2ND FLOOR DEMOLITION PLAN

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



1 2ND FLOOR DEMOLITION PLAN

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

8' 4' 0' 8'

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

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BECKER MORGAN GROUP, INC. — Professional Architectural Corporation — 51922 — North Carolina — WILMINGTON, NC

CAPE FEAR COMMUNITY COLLEGE

PROJECT TITLE

RENOVATIONS OF GALEHOUSE (A BUILDING), MCLEOD (S BUILDING), AND NATURAL SCIENCES (N BUILDING)

411 N Front Street
Wilmington, NC 28401
SCO#17-18154-01A;NCCCS# 2352

SHEET TITLE

SECOND FLOOR DEMOLITION PLAN AND PARTIAL ALTERNATE DEMOLITION PLAN

ISSUE BLOCK

Mark	Date	Description
B	09/03/2020	ADDENDUM #2
0	08/14/2020	ISSUED FOR BID

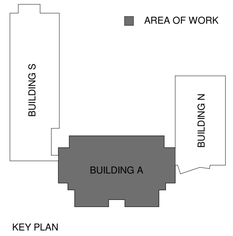
PROJECT NO: 2018023.00
DATE: 8/14/2020
SCALE: As indicated
DRAWN BY: VSC | PROJ MGR: DCW

AD102

9/3/2020 6:49:40 PM 2018023b0 CFCC ASN BASE BID_detached.rvt

DEMOLITION LEGEND

- AREAS NOT IN CONTRACT
- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE REMOVED
- Name / 101 — ROOM NAME AND NUMBER
- 01 — DEMOLITION KEYNOTE
- EXISTING DOOR TO BE REMOVED



KEY PLAN

DEMOLITION KEYNOTES

01 EXISTING WALL TO BE COMPLETELY REMOVED AND DISCARDED; COORDINATE WITH CONSTRUCTION PLAN
02 EXISTING WALL MOUNTED FIRE EXTINGUISHER TO BE REMOVED AND SAVED FOR RELOCATION
03 EXISTING PLUMBING FIXTURES TO BE REMOVED AND DISCARDED, INCLUDING BUT NOT LIMITED TO SINKS, TOILETS, AND URINALS; REFER TO PLUMBING DRAWINGS
04 EXISTING FLOOR FINISH TO BE COMPLETELY REMOVED AND DISCARDED, INCLUDING BUT NOT LIMITED TO FLOOR TILE, SETTING MATERIAL, AND WALL BASE; PREPARE SLAB TO RECEIVE NEW FINISH
05 EXISTING WALL TILE TO BE COMPLETELY REMOVED AND DISCARDED, INCLUDING BUT NOT LIMITED TO TILE AND SETTING MATERIAL; PREPARE SUBSTRATE TO RECEIVE NEW FINISH
06 EXISTING WALL MOUNTED TOILET ACCESSORIES TO BE REMOVED AND DISCARDED, INCLUDING BUT NOT LIMITED TO TOILET PAPER DISPENSERS, SANITARY NAPKIN RECEPTACLES, PAPER TOWEL DISPENSERS, ELECTRIC HAND DRYERS, SOAP DISPENSERS, ADA GRAB BARS, AND MIRRORS
07 PORTION OF EXISTING WALL TO BE REMOVED FOR NEW OPENING; COORDINATE SIZE AND LOCATION WITH CONSTRUCTION PLAN. PROVIDE TEMPORARY SHORING AS NEEDED.
08 EXISTING FLOOR FINISH TO BE COMPLETELY REMOVED, INCLUDING BUT NOT LIMITED TO FLOOR FINISH MATERIAL, WALL BASE, AND ADHESIVE; PREPARE SLAB TO RECEIVE NEW FINISH
09 EXISTING DOORS AND HARDWARE TO BE REMOVED AND DISCARDED; EXISTING STOREFRONT SYSTEM TO REMAIN
10 EXISTING LOCKERS AND LOCKER BASE TO BE REMOVED AND DISCARDED
11 ALTERNATE 11: EXISTING DOOR AND HARDWARE TO BE REMOVED AND DISCARDED; EXISTING FRAME TO REMAIN. BASE BID: EXISTING DOOR AND FRAME TO REMAIN; COORDINATE HARDWARE WITH DOOR SCHEDULE
12 ALTERNATE 8: REMOVE PAINTED FLOOR FINISH AT STAIRS AND LANDINGS, TYPICAL. PREPARE CONCRETE TO RECEIVE NEW FINISH
13 EXISTING GLASS ENTRANCE SYSTEM TO BE REMOVED AND DISCARDED.
14 EXISTING DRINKING FOUNTAIN TO BE REMOVED, REFER TO PLUMBING DRAWINGS
15 EXISTING LOUVER TO BE REMOVED AND DISCARDED
16 PERFORM EXPLORATORY DEMOLITION AND/OR X-RAY EXISTING CONSTRUCTION TO DETERMINE CAUSES OF KNOWN WATER INTRUSION
17 EXISTING MILLWORK TO BE COMPLETELY REMOVED AND DISCARDED
18 EXISTING TERRAZZO FLOOR FINISH TO BE COMPLETELY REMOVED AND DISCARDED, INCLUDING BUT NOT LIMITED TO SETTING MATERIAL, AND WALL BASE; PREPARE SLAB TO RECEIVE NEW FINISH
19 EXISTING COUNTERTOP AND TRANSACTION WINDOW TO BE REMOVED AND DISCARDED
20 EXISTING INTERIOR WINDOWS TO BE REMOVED AND DISCARDED
21 EXISTING HANDRAIL AND BRACKETS TO BE REMOVED. PATCH WALL AND PREP FOR NEW HANDRAIL INSTALLATION
22 EXISTING DISPLAY CASE TO BE REMOVED, INFILL WALL WITH LIKE MATERIALS
23 PORTION OF EXISTING WALL TO BE REMOVED FROM EDGE OF EXISTING BRICK TO EDGE OF EXISTING WALL TILE. COORDINATE WITH PLUMBING DRAWINGS
24 EXISTING DOOR, FRAME AND HARDWARE TO BE REMOVED AND DISCARDED
25 PROVIDE TEMPORARY CONSTRUCTION PARTITION WITH ACCESS DOOR; OR SECURE EXISTING DOORS AND PROVIDE CONSTRUCTION SIGNAGE AS APPROPRIATE
26 PORTION OF EXISTING GLAZING TO BE REMOVED FOR NEW OPENING; COORDINATE SIZE AND LOCATION WITH CONSTRUCTION PLAN

GENERAL DEMOLITION NOTES

1. THE DEMOLITION SHOWN ON THIS PLAN IS DIAGRAMMATIC AND INTENDED TO SHOW THE GENERAL EXTENT OF THE WORK ONLY. CONTRACTOR SHALL INCLUDE ALL DEMOLITION, WHETHER CALLED FOR OR NOT, THAT IS NECESSARY TO ACCOMPLISH THE INTENT OF THE PLANS & SPECIFICATIONS.
2. BEFORE CONSTRUCTION COMMENCES, TESTING FOR THE PRESENCE OF HAZARDOUS MATERIALS SHALL BE PERFORMED BY AN ENGINEER LICENSED IN THE STATE OF NORTH CAROLINA. THE FINDINGS OF THIS TEST SHALL BE KEPT ON SITE DURING CONSTRUCTION AT ALL TIMES. BECKER MORGAN GROUP AND ITS CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE IDENTIFICATION, DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO, HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE. A LICENSED ABATEMENT COMPANY SHALL PERFORM WORK RELATED TO REMOVAL OF ANY HAZARDOUS MATERIALS.
3. ALL DEMOLITION WORK SHALL BE PERFORMED WITH MINIMUM DAMAGE TO EXISTING WORK TO REMAIN. EFFECTIVE MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT ALL 'EXISTING TO REMAIN ELEMENTS', INCLUDING BUT NOT LIMITED TO, EXISTING STRUCTURES, FINISHES, PARTITIONS, BUILDING SYSTEMS, AND EQUIPMENT. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGE INCURRED DURING DEMOLITION AND/OR CONSTRUCTION.
4. PROVISIONS SHALL BE MADE TO ALLEVIATE THE SPREAD OF DEBRIS AND DUST TO ADJACENT PROPERTY OWNERS. THE PROPERTY SHALL BE KEPT AS CLEAN AS POSSIBLE AT ALL TIMES. SWEEP THE PROJECT SITE BROOM CLEAN AND CHANGE FILTERS ON AIR-HANDLING EQUIPMENT UPON COMPLETION OF DEMOLITION.
5. ALL DEBRIS AND MATERIALS REMOVED FROM THE BUILDING SHALL BE DISPOSED OF OFF SITE IN A LEGAL MANNER. NO RECLAIMED LUMBER OR MATERIALS SHALL BE RE-USED EXCEPT AS SPECIFICALLY APPROVED BY THE ARCHITECT OR OWNER. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
6. WHERE DEMOLITION AND CUTTING WORK HAS OCCURRED OR WHERE EXISTING SURFACES, MATERIALS OR OTHER ITEMS HAVE BEEN DAMAGED OR DISTURBED, THE SAID SURFACES AND AREAS SHALL BE CAREFULLY CLOSED UP, PATCHED AND FINISHED, AND OR RESTORED AS REQUIRED TO ACHIEVE A 'LIKE NEW' CONDITION, CONTIGUOUS TO EXISTING SURROUNDING SURFACES, WITH NO VISIBLE EVIDENCE OF PATCHING OR REPAIR.
7. DO NOT CUT AND PATCH WORK EXPOSED ON THE BUILDING'S EXTERIOR OR ITS OCCUPIED SPACES IN A MANNER WHICH WOULD, IN THE ARCHITECT'S OPINION, RESULT IN LESSENING THE BUILDING'S AESTHETIC QUALITIES. DO NOT CUT AND PATCH WORK IN A MANNER THAT WOULD RESULT IN SUBSTANTIAL VISUAL EVIDENCE OF CUT AND PATCH WORK. REMOVE AND REPLACE WORK JUDGED BY THE ARCHITECT TO BE CUT AND PATCHED IN A VISUALLY UNSATISFACTORY MANNER WITHOUT EXTRA CHARGE.
8. WHERE EXISTING FINISHES ARE SLATED FOR REMOVAL, PREPARE ALL SURFACES TO RECEIVE NEW FINISHES. ALL 'EXISTING TO REMAIN' PARTITIONS WITHIN THE PROJECT SCOPE SHALL BE REPAIRED TO 'LIKE NEW' CONDITION, OR AS NECESSARY TO PREPARE SURFACE TO RECEIVE NEW FINISH.
9. DO NOT REMOVE ANY STRUCTURAL COMPONENTS, INCLUDING BUT NOT LIMITED TO, COLUMNS, BEAMS, JOISTS, LOAD-BEARING WALLS OR SUPPORTS. CAREFULLY REMOVE INTERIOR PARTITIONS ONLY. PROVIDE AND MAINTAIN INTERIOR SHORING, BRACING OR STRUCTURAL SUPPORT TO PRESERVE STABILITY AND PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF ITEMS TO BE SELECTIVELY DEMOLISHED AND ITEMS WHICH ARE IMMEDIATELY ADJACENT TO THOSE BEING REMOVED.
10. WHERE EXISTING ELECTRICAL WORK NEEDS TO BE ABANDONED, REMOVE WIRE FROM OUTLET BACK TO ELECTRICAL PANEL OR SOURCE AND MAKE SAFE. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICIAN; REFER TO ELECTRICAL DRAWINGS IF APPLICABLE.
11. WHERE EXISTING PLUMBING WORK NEEDS TO BE ABANDONED, REMOVE ALL VENT STACK PIPING AND REPAIR ROOF PENETRATIONS. REMOVE ALL OVERHEAD WATER LINES AND CAP AT SOURCE. PRIOR TO DEMOLITION, CAREFULLY VERIFY IF LINES CAN BE REUSED AS PART OF THE NEW BUILD-OUT. ALL UNDERFLOOR SANITARY AND WATER LINES SHALL BE CAPPED BELOW FLOOR. VERIFY ALL WATER LINES HAVE BEEN TURNED OFF PRIOR TO WORK. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBER; REFER TO PLUMBING DRAWINGS IF APPLICABLE.
12. WHERE EXISTING VENTILATION OR AIR CONDITIONING NEEDS TO BE ABANDONED, REMOVE ALL EXHAUST AND OUTSIDE AIR DUCTS AS REQUIRED. ROOF-TOP EQUIPMENT SHALL BE REMOVED AND ROOF OPENINGS DRIED IN TO PREVENT WATER PENETRATION INTO THE SPACE. ALL WORK SHALL BE PERFORMED BY A LICENSED MECHANICAL CONTRACTOR; REFER TO MECHANICAL DRAWINGS IF APPLICABLE.
13. WHERE EXISTING GAS LINES OR SERVICE NEEDS TO BE ABANDONED, CAREFULLY REMOVE ALL PIPING, SHUT-OFF VALVES AND FITTINGS AS REQUIRED. GAS METER AND REGULATOR SHALL BE REMOVED BY UTILITY AUTHORITY. ALL WORK SHALL BE PERFORMED BY A LICENSED SUB-CONTRACTOR.
14. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL EXITS. EXIT LIGHTING, FIRE PROTECTION DEVICES, AND ALARMS TO CONFORM TO LOCAL BUILDING CODE REQUIREMENTS.
15. LIMIT USE OF THE PREMISES TO CONSTRUCTION ACTIVITIES IN AREAS INDICATED IN SCOPE OF PROJECT. ALLOW OWNER OCCUPANCY AND USE BY BUILDING'S MAINTENANCE AND SERVICE PERSONNEL AT ALL TIMES.
16. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, PLUMBING OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OF DESIGN ARE ENCOUNTERED, INVESTIGATE AND MEASURE THE NATURE AND EXTENT OF THE CONFLICT. PROMPTLY SUBMIT A WRITTEN REPORT TO THE ARCHITECT BEFORE PROCEEDING WITH DEMOLITION ACTIVITIES.
17. PROVIDE THE OWNER WITH ADVANCE NOTICE AND OBTAIN APPROVAL FOR ACTIVITIES THAT COULD INTERRUPT OR IMPACT THE USE OR OPERATION OF THE EXISTING BUILDINGS/ FACILITIES.. DO NOT START DEMOLITION UNTIL UTILITY DISCONNECTING AND SEALING HAVE BEEN COMPLETED AND VERIFIED IN WRITING. REFER TO THE PROJECT MANUAL AND COORDINATE WITH THE OWNER TO DETERMINE THEIR SPECIFIC ADVANCE NOTIFICATION REQUIREMENTS.
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19. ALL FLOOR FINISHES ARE EXISTING TO REMAIN; TYPICAL THROUGHOUT, UNLESS OTHERWISE NOTED.
20. ALL CEILINGS ARE EXISTING TO REMAIN, EXCEPT IN AREAS SPECIFICALLY NOTED ON THE DRAWINGS; TYPICAL THROUGHOUT, UNLESS OTHERWISE NOTED.
21. ALL EXISTING DOORS, HARDWARE, AND FRAMES ARE EXISTING TO REMAIN; TYPICAL THROUGHOUT, UNLESS OTHERWISE NOTED.
22. GC TO REMOVE ALL WALL-MOUNTED ACCESSORIES PRIOR TO PAINTING, INCLUDING BUT NOT LIMITED TO CHALKBOARDS, WHITEBOARDS, TACKBOARDS, PROJECTION SCREENS, ETC. CHALKBOARDS TO BE DISCARDED, ALL OTHER ACCESSORIES TO BE SALVAGED FOR RE-INSTALLATION. PATCH HOLES AND PREPARE WALL SURFACES TO RECEIVE NEW FINISH. COORDINATE RE-INSTALLATION OF SALVAGED ACCESSORIES WITH CONSTRUCTION PLAN.
23. GC TO REMOVE AND DISCARD ALL EXISTING ROOM SIGNAGE.
24. ALL EXISTING WINDOW BLINDS ARE EXISTING TO REMAIN.

1 3RD FLOOR DEMOLITION PLAN

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

8' 4' 0' 8'

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

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BECKER MORGAN GROUP, INC. — Professional Architectural Corporation — 51922 — North Carolina — WILMINGTON, NC

CAPE FEAR COMMUNITY COLLEGE

PROJECT TITLE

RENOVATIONS OF GALEHOUSE (A BUILDING), MCLEOD (S BUILDING), AND NATURAL SCIENCES (N BUILDING)

411 N Front Street
Wilmington, NC 28401
SCO#17-18154-01A;NCCCS# 2352

SHEET TITLE

THIRD FLOOR DEMOLITION PLAN

ISSUE BLOCK

Mark	Date	Description
B	09/03/2020	ADDENDUM #2
0	08/14/2020	ISSUED FOR BID

PROJECT NO: 2018023.00
DATE: 8/14/2020
SCALE: As indicated
DRAWN BY: VSC | PROJ MGR: DCW

AD103

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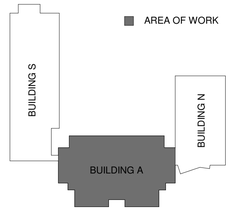
DEMOLITION LEGEND

- AREAS NOT IN CONTRACT
- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE REMOVED
- Name / 101 — ROOM NAME AND NUMBER
- 01 — DEMOLITION KEYNOTE
- EXISTING DOOR TO BE REMOVED



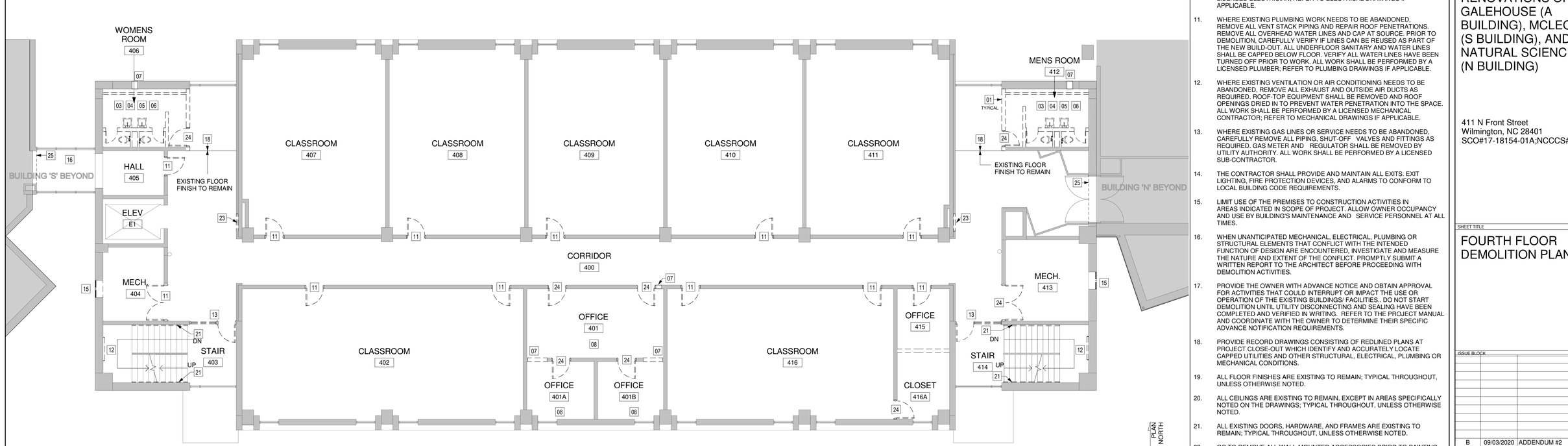
KEY PLAN

DEMOLITION KEYNOTES

01 EXISTING WALL TO BE COMPLETELY REMOVED AND DISCARDED; COORDINATE WITH CONSTRUCTION PLAN
02 EXISTING WALL MOUNTED FIRE EXTINGUISHER TO BE REMOVED AND SAVED FOR RELOCATION
03 EXISTING PLUMBING FIXTURES TO BE REMOVED AND DISCARDED, INCLUDING BUT NOT LIMITED TO SINKS, TOILETS, AND URINALS; REFER TO PLUMBING DRAWINGS
04 EXISTING FLOOR FINISH TO BE COMPLETELY REMOVED AND DISCARDED, INCLUDING BUT NOT LIMITED TO FLOOR TILE, SETTING MATERIAL, AND WALL BASE; PREPARE SLAB TO RECEIVE NEW FINISH
05 EXISTING WALL TILE TO BE COMPLETELY REMOVED AND DISCARDED, INCLUDING BUT NOT LIMITED TO TILE AND SETTING MATERIAL; PREPARE SUBSTRATE TO RECEIVE NEW FINISH
06 EXISTING WALL MOUNTED TOILET ACCESSORIES TO BE REMOVED AND DISCARDED, INCLUDING BUT NOT LIMITED TO TOILET PAPER DISPENSERS, SANITARY NAPKIN RECEPTACLES, PAPER TOWEL DISPENSERS, ELECTRIC HAND DRYERS, SOAP DISPENSERS, ADA GRAB BARS, AND MIRRORS
07 PORTION OF EXISTING WALL TO BE REMOVED FOR NEW OPENING; COORDINATE SIZE AND LOCATION WITH CONSTRUCTION PLAN. PROVIDE TEMPORARY SHORING AS NEEDED.
08 EXISTING FLOOR FINISH TO BE COMPLETELY REMOVED, INCLUDING BUT NOT LIMITED TO FLOOR FINISH MATERIAL, WALL BASE, AND ADHESIVE; PREPARE SLAB TO RECEIVE NEW FINISH
09 EXISTING DOORS AND HARDWARE TO BE REMOVED AND DISCARDED; EXISTING STOREFRONT SYSTEM TO REMAIN
10 EXISTING LOCKERS AND LOCKER BASE TO BE REMOVED AND DISCARDED
11 ALTERNATE 11: EXISTING DOOR AND HARDWARE TO BE REMOVED AND DISCARDED; EXISTING FRAME TO REMAIN. BASE BID: EXISTING DOOR AND FRAME TO REMAIN; COORDINATE HARDWARE WITH DOOR SCHEDULE
12 ALTERNATE 8: REMOVE PAINTED FLOOR FINISH AT STAIRS AND LANDINGS, TYPICAL. PREPARE CONCRETE TO RECEIVE NEW FINISH
13 EXISTING GLASS ENTRANCE SYSTEM TO BE REMOVED AND DISCARDED.
14 EXISTING DRINKING FOUNTAIN TO BE REMOVED, REFER TO PLUMBING DRAWINGS
15 EXISTING LOUVER TO BE REMOVED AND DISCARDED
16 PERFORM EXPLORATORY DEMOLITION AND/OR X-RAY EXISTING CONSTRUCTION TO DETERMINE CAUSES OF KNOWN WATER INTRUSION
17 EXISTING MILLWORK TO BE COMPLETELY REMOVED AND DISCARDED
18 EXISTING TERRAZZO FLOOR FINISH TO BE COMPLETELY REMOVED AND DISCARDED, INCLUDING BUT NOT LIMITED TO SETTING MATERIAL, AND WALL BASE; PREPARE SLAB TO RECEIVE NEW FINISH
19 EXISTING COUNTERTOP AND TRANSACTION WINDOW TO BE REMOVED AND DISCARDED
20 EXISTING INTERIOR WINDOWS TO BE REMOVED AND DISCARDED
21 EXISTING HANDRAIL AND BRACKETS TO BE REMOVED. PATCH WALL AND PREP FOR NEW HANDRAIL INSTALLATION
22 EXISTING DISPLAY CASE TO BE REMOVED, INFILL WALL WITH LIKE MATERIALS
23 PORTION OF EXISTING WALL TO BE REMOVED FROM EDGE OF EXISTING BRICK TO EDGE OF EXISTING WALL TILE. COORDINATE WITH PLUMBING DRAWINGS
24 EXISTING DOOR, FRAME AND HARDWARE TO BE REMOVED AND DISCARDED
25 PROVIDE TEMPORARY CONSTRUCTION PARTITION WITH ACCESS DOOR; OR SECURE EXISTING DOORS AND PROVIDE CONSTRUCTION SIGNAGE AS APPROPRIATE
26 PORTION OF EXISTING GLAZING TO BE REMOVED FOR NEW OPENING; COORDINATE SIZE AND LOCATION WITH CONSTRUCTION PLAN

GENERAL DEMOLITION NOTES

1. THE DEMOLITION SHOWN ON THIS PLAN IS DIAGRAMMATIC AND INTENDED TO SHOW THE GENERAL EXTENT OF THE WORK ONLY. CONTRACTOR SHALL INCLUDE ALL DEMOLITION, WHETHER CALLED FOR OR NOT, THAT IS NECESSARY TO ACCOMPLISH THE INTENT OF THE PLANS & SPECIFICATIONS.
2. BEFORE CONSTRUCTION COMMENCES, TESTING FOR THE PRESENCE OF HAZARDOUS MATERIALS SHALL BE PERFORMED BY AN ENGINEER LICENSED IN THE STATE OF NORTH CAROLINA. THE FINDINGS OF THIS TEST SHALL BE KEPT ON SITE DURING CONSTRUCTION AT ALL TIMES. BECKER MORGAN GROUP AND ITS CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE IDENTIFICATION, DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO, HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE. A LICENSED ABATEMENT COMPANY SHALL PERFORM WORK RELATED TO REMOVAL OF ANY HAZARDOUS MATERIALS.
3. ALL DEMOLITION WORK SHALL BE PERFORMED WITH MINIMUM DAMAGE TO EXISTING WORK TO REMAIN. EFFECTIVE MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT ALL 'EXISTING TO REMAIN ELEMENTS', INCLUDING BUT NOT LIMITED TO, EXISTING STRUCTURES, FINISHES, PARTITIONS, BUILDING SYSTEMS, AND EQUIPMENT. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGE INCURRED DURING DEMOLITION AND/OR CONSTRUCTION.
4. PROVISIONS SHALL BE MADE TO ALLEVIATE THE SPREAD OF DEBRIS AND DUST TO ADJACENT PROPERTY OWNERS. THE PROPERTY SHALL BE KEPT AS CLEAN AS POSSIBLE AT ALL TIMES. SWEEP THE PROJECT SITE BROOM CLEAN AND CHANGE FILTERS ON AIR-HANDLING EQUIPMENT UPON COMPLETION OF DEMOLITION.
5. ALL DEBRIS AND MATERIALS REMOVED FROM THE BUILDING SHALL BE DISPOSED OF OFF SITE IN A LEGAL MANNER. NO RECLAIMED LUMBER OR MATERIALS SHALL BE RE-USED EXCEPT AS SPECIFICALLY APPROVED BY THE ARCHITECT OR OWNER. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
6. WHERE DEMOLITION AND CUTTING WORK HAS OCCURRED OR WHERE EXISTING SURFACES, MATERIALS OR OTHER ITEMS HAVE BEEN DAMAGED OR DISTURBED, THE SAID SURFACES AND AREAS SHALL BE CAREFULLY CLOSED UP, PATCHED AND FINISHED, AND OR RESTORED AS REQUIRED TO ACHIEVE A 'LIKE NEW' CONDITION, CONTIGUOUS TO EXISTING SURROUNDING SURFACES, WITH NO VISIBLE EVIDENCE OF PATCHING OR REPAIR.
7. DO NOT CUT AND PATCH WORK EXPOSED ON THE BUILDING'S EXTERIOR OR ITS OCCUPIED SPACES IN A MANNER WHICH WOULD, IN THE ARCHITECT'S OPINION, RESULT IN LESSENING THE BUILDING'S AESTHETIC QUALITIES. DO NOT CUT AND PATCH WORK IN A MANNER THAT WOULD RESULT IN SUBSTANTIAL VISUAL EVIDENCE OF CUT AND PATCH WORK. REMOVE AND REPLACE WORK JUDGED BY THE ARCHITECT TO BE CUT AND PATCHED IN A VISUALLY UNSATISFACTORY MANNER WITHOUT EXTRA CHARGE.
8. WHERE EXISTING FINISHES ARE SLATED FOR REMOVAL, PREPARE ALL SURFACES TO RECEIVE NEW FINISHES. ALL 'EXISTING TO REMAIN' PARTITIONS WITHIN THE PROJECT SCOPE SHALL BE REPAIRED TO 'LIKE NEW' CONDITION, OR AS NECESSARY TO PREPARE SURFACE TO RECEIVE NEW FINISH.
9. DO NOT REMOVE ANY STRUCTURAL COMPONENTS, INCLUDING BUT NOT LIMITED TO, COLUMNS, BEAMS, JOISTS, LOAD-BEARING WALLS OR SUPPORTS. CAREFULLY REMOVE INTERIOR PARTITIONS ONLY. PROVIDE AND MAINTAIN INTERIOR SHORING, BRACING OR STRUCTURAL SUPPORT TO PRESERVE STABILITY AND PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF ITEMS TO BE SELECTIVELY DEMOLISHED AND ITEMS WHICH ARE IMMEDIATELY ADJACENT TO THOSE BEING REMOVED.
10. WHERE EXISTING ELECTRICAL WORK NEEDS TO BE ABANDONED, REMOVE WIRE FROM OUTLET BACK TO ELECTRICAL PANEL OR SOURCE AND MAKE SAFE. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICIAN; REFER TO ELECTRICAL DRAWINGS IF APPLICABLE.
11. WHERE EXISTING PLUMBING WORK NEEDS TO BE ABANDONED, REMOVE ALL VENT STACK PIPING AND REPAIR ROOF PENETRATIONS. REMOVE ALL OVERHEAD WATER LINES AND CAP AT SOURCE. PRIOR TO DEMOLITION, CAREFULLY VERIFY IF LINES CAN BE REUSED AS PART OF THE NEW BUILD-OUT. ALL UNDERFLOOR SANITARY AND WATER LINES SHALL BE CAPPED BELOW FLOOR. VERIFY ALL WATER LINES HAVE BEEN TURNED OFF PRIOR TO WORK. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBER; REFER TO PLUMBING DRAWINGS IF APPLICABLE.
12. WHERE EXISTING VENTILATION OR AIR CONDITIONING NEEDS TO BE ABANDONED, REMOVE ALL EXHAUST AND OUTSIDE AIR DUCTS AS REQUIRED. ROOF-TOP EQUIPMENT SHALL BE REMOVED AND ROOF OPENINGS DRIED IN TO PREVENT WATER PENETRATION INTO THE SPACE. ALL WORK SHALL BE PERFORMED BY A LICENSED MECHANICAL CONTRACTOR; REFER TO MECHANICAL DRAWINGS IF APPLICABLE.
13. WHERE EXISTING GAS LINES OR SERVICE NEEDS TO BE ABANDONED, CAREFULLY REMOVE ALL PIPING, SHUT-OFF VALVES AND FITTINGS AS REQUIRED. GAS METER AND REGULATOR SHALL BE REMOVED BY UTILITY AUTHORITY. ALL WORK SHALL BE PERFORMED BY A LICENSED SUB-CONTRACTOR.
14. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL EXITS. EXIT LIGHTING, FIRE PROTECTION DEVICES, AND ALARMS TO CONFORM TO LOCAL BUILDING CODE REQUIREMENTS.
15. LIMIT USE OF THE PREMISES TO CONSTRUCTION ACTIVITIES IN AREAS INDICATED IN SCOPE OF PROJECT. ALLOW OWNER OCCUPANCY AND USE BY BUILDING'S MAINTENANCE AND SERVICE PERSONNEL AT ALL TIMES.
16. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, PLUMBING OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OF DESIGN ARE ENCOUNTERED, INVESTIGATE AND MEASURE THE NATURE AND EXTENT OF THE CONFLICT. PROMPTLY SUBMIT A WRITTEN REPORT TO THE ARCHITECT BEFORE PROCEEDING WITH DEMOLITION ACTIVITIES.
17. PROVIDE THE OWNER WITH ADVANCE NOTICE AND OBTAIN APPROVAL FOR ACTIVITIES THAT COULD INTERRUPT OR IMPACT THE USE OR OPERATION OF THE EXISTING BUILDINGS/ FACILITIES.. DO NOT START DEMOLITION UNTIL UTILITY DISCONNECTING AND SEALING HAVE BEEN COMPLETED AND VERIFIED IN WRITING. REFER TO THE PROJECT MANUAL AND COORDINATE WITH THE OWNER TO DETERMINE THEIR SPECIFIC ADVANCE NOTIFICATION REQUIREMENTS.
18. PROVIDE RECORD DRAWINGS CONSISTING OF REDLINED PLANS AT PROJECT CLOSE-OUT WHICH IDENTIFY AND ACCURATELY LOCATE CAPPED UTILITIES AND OTHER STRUCTURAL, ELECTRICAL, PLUMBING OR MECHANICAL CONDITIONS.
19. ALL FLOOR FINISHES ARE EXISTING TO REMAIN; TYPICAL THROUGHOUT, UNLESS OTHERWISE NOTED.
20. ALL CEILINGS ARE EXISTING TO REMAIN, EXCEPT IN AREAS SPECIFICALLY NOTED ON THE DRAWINGS; TYPICAL THROUGHOUT, UNLESS OTHERWISE NOTED.
21. ALL EXISTING DOORS, HARDWARE, AND FRAMES ARE EXISTING TO REMAIN; TYPICAL THROUGHOUT, UNLESS OTHERWISE NOTED.
22. GC TO REMOVE ALL WALL-MOUNTED ACCESSORIES PRIOR TO PAINTING, INCLUDING BUT NOT LIMITED TO CHALKBOARDS, WHITEBOARDS, TACKBOARDS, PROJECTION SCREENS, ETC. CHALKBOARDS TO BE DISCARDED, ALL OTHER ACCESSORIES TO BE SALVAGED FOR RE-INSTALLATION. PATCH HOLES AND PREPARE WALL SURFACES TO RECEIVE NEW FINISH. COORDINATE RE-INSTALLATION OF SALVAGED ACCESSORIES WITH CONSTRUCTION PLAN.
23. GC TO REMOVE AND DISCARD ALL EXISTING ROOM SIGNAGE.
24. ALL EXISTING WINDOW BLINDS ARE EXISTING TO REMAIN.



1 4TH FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"
8' 4' 0' 8'
SCALE : 1/8" = 1'-0"

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CAPE FEAR COMMUNITY COLLEGE

PROJECT TITLE

RENOVATIONS OF GALEHOUSE (A BUILDING), MCLEOD (S BUILDING), AND NATURAL SCIENCES (N BUILDING)

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SCO#17-18154-01A;NCCCS# 2352

SHEET TITLE

FOURTH FLOOR DEMOLITION PLAN

ISSUE BLOCK

Mark	Date	Description
B	09/03/2020	ADDENDUM #2
0	08/14/2020	ISSUED FOR BID

PROJECT NO: 2018023.00
DATE: 8/14/2020
SCALE: As indicated
DRAWN BY: VSC PROJ MGR: DCW

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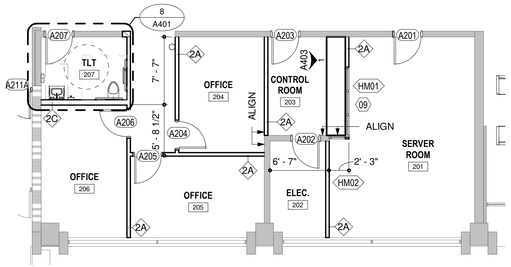
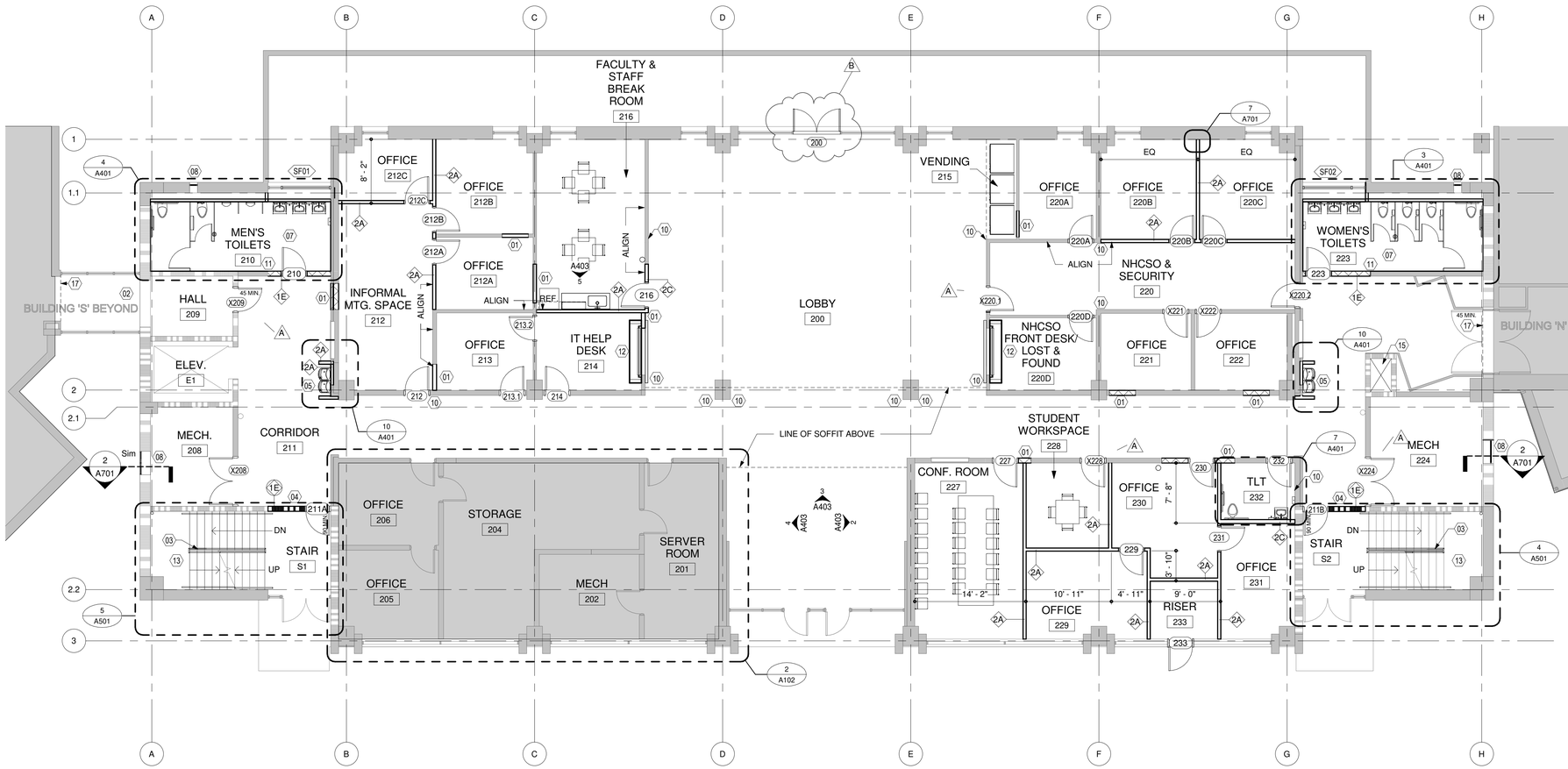


NOTE: REFER TO ALTERNATE 2: DOOR SCHEDULE ON A802

2 ALTERNATE 2 PARTIAL 2ND FLOOR CONSTRUCTION PLAN

8' 4' 0' 8' SCALE: 1/8" = 1'-0"

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



1 2ND FLOOR CONSTRUCTION PLAN

8' 4' 0' 8' SCALE: 1/8" = 1'-0"

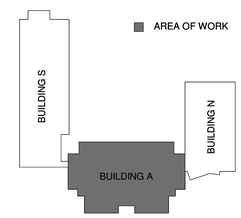
SCALE : 1/8" = 1'-0"

CONSTRUCTION KEYNOTES

01 INFILL WALL AT REMOVED OPENING; MATCH EXISTING ADJACENT CONSTRUCTION
02 REMOVE AND REPLACE WATERPROOFING AT EXISTING BUILDING CONNECTOR
03 FURNISH AND INSTALL NEW PANELIZED WIRE MESH GUARDRAIL SECURED TO EXISTING CONCRETE TREADS AND VERTICAL HANDRAIL STANCHIONS
04 ALTERNATE 5: FURNISH AND INSTALL FIRE RATED GLASS ENTRANCE SYSTEM AT STAIRS
05 FURNISH AND INSTALL NEW HI-LO DRINKING FOUNTAIN, REFER TO PLUMBING DRAWINGS
06 FURNISH AND INSTALL NEW LOCKABLE LADDER DEVICE
07 PROVIDE CEMENTITIOUS SLAB INFILL MATERIAL AT AREA OF REMOVED TERRAZZO AS REQUIRED TO ACHIEVE A LEVEL TRANSITION FROM EXISTING TERRAZZO TO NEW FLOOR TILE; PITCH SLAB TO FLOOR DRAIN, 1/8" PER FT
08 FURNISH AND INSTALL NEW LOUVER
09 FURNISH AND INSTALL HOLLOW METAL FRAME AND GLASS ABOVE COUNTERTOP
10 PATCH AND REPAIR AREA AFFECTED BY DEMOLITION FOR SMOOTH "LIKE NEW" FINISH
11 TOOTH-IN NEW BLOCK
12 FURNISH AND INSTALL ROLL-UP COUNTER SECURITY DOOR
13 FURNISH AND INSTALL NEW HANDRAILS
14 FURNISH AND INSTALL NEW PAINTED STEEL FRAME TO SUPPORT OVERHEAD FIRE PROTECTION PIPING; REFER TO STRUCTURAL DRAWINGS
15 PATCH AND REPAIR SHAFT CONSTRUCTION AS REQUIRED TO 2 HR FIRE RATING, COORDINATE WITH MECHANICAL DRAWINGS
16 NEW ROOF PENETRATION; REFER TO DETAIL 2/A105
17 PROVIDE TEMPORARY CONSTRUCTION PARTITION WITH ACCESS DOOR, OR SECURE EXISTING DOORS AND PROVIDE CONSTRUCTION SIGNAGE AS APPROPRIATE
18 NEW EQUIPMENT RAIL PENETRATION; REFER TO DETAIL 3/A105

CONSTRUCTION LEGEND

- AREAS NOT IN CONTRACT
- NEW WALL
- EXISTING WALL TO REMAIN
- 1 — WALL TYPE, SEE A101
- Name / 101 — ROOM NAME AND NUMBER
- 01 — CONSTRUCTION KEYNOTE
- 101 — DOOR TAG
- 2 HR RATED FIRE PARTITION / FIRE BARRIER
- 1 HR RATED FIRE PARTITION / FIRE BARRIER
- 45 MIN FIRE RATING — DOOR



KEY PLAN

GENERAL CONSTRUCTION NOTES

1. GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION (STANDARD AIA DOCUMENT A201, 2007 EDITION) APPLIES TO ALL WORK UNDER THIS CONSTRUCTION CONTRACT.
2. THE CONTRACTOR SHALL REVIEW AND COORDINATE THE SCHEDULING OF ALL CONSTRUCTION WITH THE BUILDING OWNER, SUBMIT DETAILED CONSTRUCTION SCHEDULE PRIOR TO DOING WORK INCLUDING PHASED CONSTRUCTION AND AFTER HOURS WORK.
3. THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT BUILDING OCCUPANTS, MATERIALS AND EXISTING FINISHES THROUGHOUT ALL PHASES OF CONSTRUCTION. NOISE, SECURITY AND DUST BARRIERS BETWEEN CONSTRUCTION AREA AND AREAS WHICH ARE PUBLIC OR OTHERWISE OCCUPIED SHALL BE MAINTAINED BY THE CONTRACTOR. CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL EXITS, EXIT LIGHTING, FIRE PROTECTION DEVICES AND ALARMS TO CONFORM TO LOCAL BUILDING CODE REQUIREMENTS.
4. THE CONTRACTOR SHALL MAINTAIN THE RATING OF ALL REQUIRED RATED WALLS AT ALL INTERSECTIONS, CONNECTIONS, AND PENETRATIONS
5. FIRE RATED PARTITIONS INDICATED ON THE FLOOR PLANS ARE COMPONENTS OF CONTINUOUS RATED ASSEMBLIES CONSISTING OF BUT NOT LIMITED TO, WALLS, FLOOR, DOORS, INTERIOR BORROWED LIGHTS, MECHANICAL PENETRATIONS AND CEILINGS. REFER TO PLANS AND SPECIFICATIONS FOR METHODS OR ACHIEVING THE NECESSARY RATINGS. WHERE THE SPECIFIC METHOD OF ACHIEVING THE RATING IS NOT INDICATED, OBTAIN CLARIFICATION FROM ARCHITECT PRIOR TO CONSTRUCTION.
6. FIRE-RATED PARTITIONS SHALL BE IDENTIFIED AS SUCH IN LARGE RED STENCIL ABOVE FINISHED CEILING.
7. REVIEW WALL EXIT SIGNS AND FIRE EXTINGUISHER LOCATIONS WITH LOCAL CODE OFFICIALS PRIOR TO END OF PRIMARY CONSTRUCTION PHASE. COORDINATE ANY VARIATIONS FROM CONSTRUCTION DOCUMENTS WITH ARCHITECT. RELOCATE EXISTING FIRE EXTINGUISHERS PER FIRE MARSHAL'S DIRECTION.
8. CHASE WALLS SHALL MATCH ADJACENT CONSTRUCTION; TYPICAL, UNLESS OTHERWISE NOTED.
9. NEW GYPSUM BOARD CONSTRUCTION MEETING EXISTING CONSTRUCTION IN SAME PLANE SHALL BE FLUSH WITH NO VISIBLE JOINT.
10. PROVIDE WATER RESISTANT GYPSUM BOARD OR APPROVED EQUAL AT ALL NEW PLUMBING WALLS.
11. IN LIEU OF GYPSUM WALL BOARD, PROVIDE CEMENT BOARD AT ALL STUD WALLS SLATED TO RECEIVE A TILE FINISH.
12. PROVIDE GYPSUM BOARD ASSEMBLIES IN ACCORDANCE WITH ASTM C840, LEVEL 4 FINISH, UNLESS OTHERWISE NOTED.
13. PROVIDE CONCEALED WOOD BLOCKING (FIRE RETARDANT WHERE REQUIRED BY CODE) INSIDE PARTITIONS FOR SECURING WALL-HUNG CABINETS PROVIDED BY FURNITURE VENDOR, SHELVING, TRIM, MILLWORK AND OTHER ELEMENTS ATTACHED TO PARTITIONS AS REQUIRED TO ENSURE FLUSH, STRAIGHT, WELL-SECURED CONDITIONS. PROVIDE CORROSIVE RESISTANT FASTENERS FOR FIRE-RETARDANT TREATED WOOD.
14. THE CONTRACTOR SHALL COORDINATE ALL KEYING REQUIREMENTS, INCLUDING MASTER AND SUB-MASTER SETS, WITH THE OWNER.
15. ALL CODE REQUIRED LABELS SUCH AS 'UL', FACTORY MUTUAL, OR ANY EQUIPMENT IDENTIFICATION, PERFORMANCE RATING, NAME OR NOMENCLATURE PLATES SHALL REMAIN READABLE AND NOT PAINTED.
16. TRANSITIONS OF FLOOR MATERIALS TO BE LOCATED AT CENTERLINE OF DOORS IN CLOSED POSITION; TYPICAL, UNLESS OTHERWISE NOTED.
17. PAINT BACK SIDES OF REMOVABLE ACCESS PANELS AND HINGED COVERS TO MATCH EXPOSED SURFACE.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND FOLLOWING THE BUILDING OWNER'S CONSTRUCTION RULES AND REGULATIONS.
19. WHERE THE DRAWINGS AND SPECIFICATIONS CONFLICT THE MOST STRINGENT, GREATEST QUANTITY AND OR BEST QUALITY SHALL BE USED.
20. PATCH, REPAIR AND REFINISH ALL SURFACES EXPOSED BY DEMOLITION WORK OR CUTTING TO ALIGN WITH EXISTING SURFACES SCHEDULED TO REMAIN, OR NEW FINISHES SPECIFIED AS REQUIRED TO ACHIEVE A 'LIKE NEW' CONDITION, CONTIGUOUS TO EXISTING SURROUNDING SURFACES, WITH NO VISIBLE EVIDENCE OF PATCHING OR REPAIR. REMOVE AND REPLACE WORK JUDGED BY THE ARCHITECT TO BE CUT AND PATCHED IN A VISUALLY UNSATISFACTORY MANNER WITHOUT EXTRA CHARGE.
21. ALL EXISTING FINISHES REMAINING IN PLACE (CARPET, VCT, CEILINGS, ETC.) SHALL BE CLEANED UTILIZING EFFECTIVE CLEANING METHODS WHICH WILL PRODUCE THE MOST DESIRABLE RESULTS POSSIBLE.
22. WHERE DOORS IN METAL STUD PARTITIONS ARE NOT SPECIFICALLY LOCATED ON THE PLANS WITH DIMENSION STRINGS, PROVIDE A HINGE SIDE JAMB DIMENSION OF 6". WHERE DOORS APPEAR TO BE CENTERED WITHIN PARTITIONS, LOCATE THE DOOR IN THE CENTER OF THE PARTITION.
23. CAULK ALL JOINT OR CRACKS WHICH OCCUR WHERE DISSIMILAR MATERIALS INTERSECT PERPENDICULAR TO EACH OTHER AND THE INTERSECTION IS EXPOSED TO VIEW UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
24. EXISTING FIRE RATED CONSTRUCTION NOTED ON LIFE SAFETY PLANS, CONTRACTOR TO CONFIRM INTEGRITY OF RATED ASSEMBLIES, REPAIR AS REQUIRED.
25. GC TO RE-INSTALL SALVAGED WALL-MOUNTED ACCESSORIES AFTER FINAL COAT OF PAINT HAS BEEN APPLIED. EXISTING CHALKBOARDS TO BE REPLACED WITH OWNER FURNISHED, CONTRACTOR INSTALLED WHITEBOARDS. COORDINATE FINAL LOCATIONS OF ACCESSORIES WITH OWNER.
26. GC TO FURNISH AND INSTALL NEW ROOM SIGNAGE THROUGHOUT.
27. ALL SITE ELEMENTS (FLAT WORK, LANDSCAPING, CONCRETE STAIRS, ETC.) ARE SHOWN FOR REFERENCE ONLY. REFER TO CIVIL DRAWINGS FOR DESIGN AND CONSTRUCTION METHODS.

PLAN NORTH

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SCO#17-18154-01A;NCCCS# 2352

SHEET TITLE

SECOND FLOOR CONSTRUCTION PLAN AND ALTERNATE 2 PARTIAL FLOOR PLAN

ISSUE BLOCK

Mark	Date	Description
B	09/03/2020	ADDENDUM #2
A	08/28/2020	ADDENDUM #1
0	08/14/2020	ISSUED FOR BID

PROJECT NO: 2018023.00
DATE: 8/14/2020
SCALE: As indicated
DRAWN BY: VSC PROJ MGR: DCW

A102

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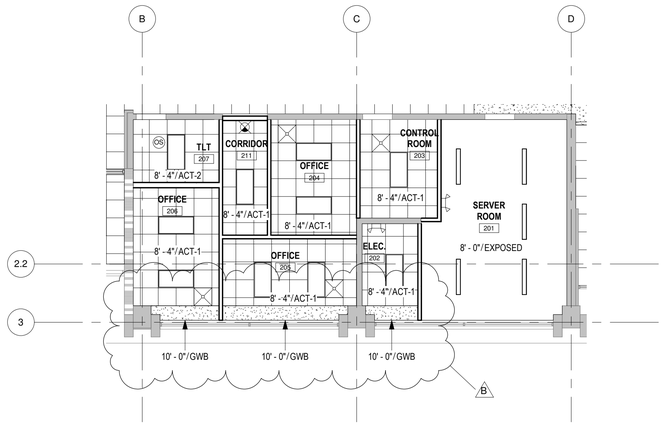


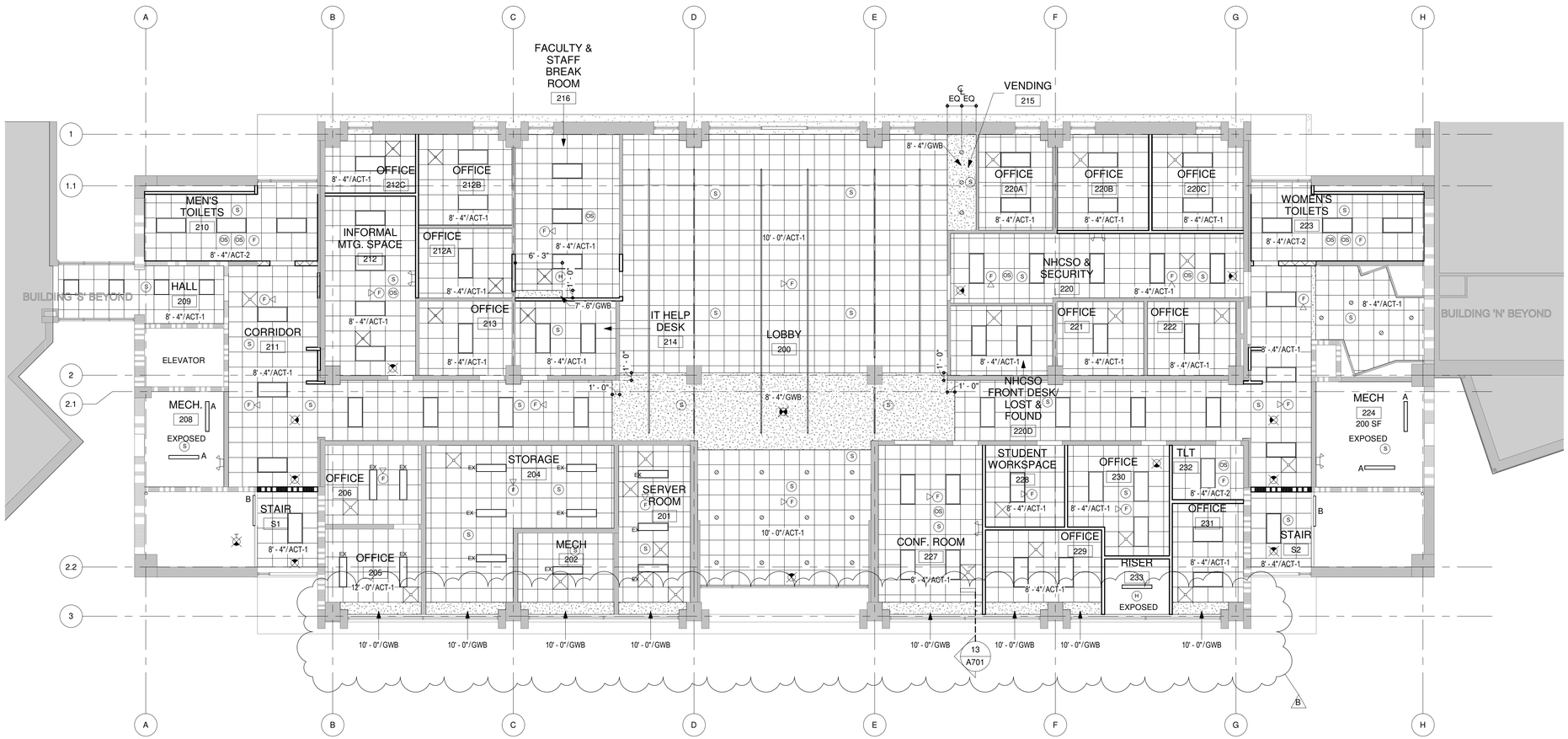
ALTERNATE 2: PARTIAL 2ND FLOOR REFLECTED CEILING PLAN

2

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

8' 4' 0' 8'

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



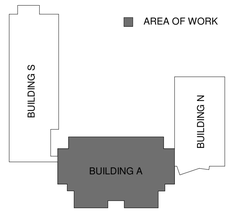
2ND FLOOR REFLECTED CEILING PLAN

1

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

8' 4' 0' 8'

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



KEY PLAN

CEILING LEGEND

- AREAS NOT IN CONTRACT
- 2x2 ACT-1 CEILING
- 2x2 ACT-2 MOISTURE RESISTANT CEILING
- 2x2 ACT-3 NEW CEILING GRID; SALVAGE AND REUSE CEILING TILES
- INTERIOR - GWB CEILINGS /BULKHEADS PAINTED PT-2
- EXPOSED — EXPOSED PAINTED PT-2
- NEW 6IN INCANDESCENT LIGHTING
- A — NEW PENDANT LIGHTING
- B — NEW WALL MOUNTED LIGHTING
- C — NEW 6'x4' LINEAR BOX LIGHTING
- NEW 1'x4' LINEAR BOX LIGHTING
- NEW 2'x4' LINEAR BOX LIGHTING
- NEW 2'x2' LINEAR BOX LIGHTING
- EX — EXISTING 2'x6' LINEAR BOX LIGHTING
- RL — RELOCATED 2'x6' LINEAR BOX LIGHTING
- EX — EXISTING PENDANT LIGHTING
- CEILING EXHAUST AIR GRILLE
- CEILING SUPPLY AIR DIFFUSER
- CEILING RETURN AIR GRILLE
- CEILING MOUNTED EXIT LIGHT
- WALL MOUNTED EXIT LIGHT
- EMERGENCY LIGHT
- OS — OCCUPANCY SENSOR
- F — FIRE ALARM AURAL/VISUAL DEVICE, CEILING MOUNTED
- F — FIRE ALARM AURAL/VISUAL DEVICE, WALL MOUNTED
- F — FIRE ALARM VISUAL (ONLY), CEILING MOUNTED
- S — SMOKE DETECTOR
- H — HEAT DETECTOR

CEILING NOTES

1. SEE FINISH LEGEND FOR ACT TYPES.
2. SEE MECHANICAL DRAWINGS FOR G.R.D. TYPES, LOCATIONS, AND ADDITIONAL WORK.
3. SEE ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPES AND LOCATIONS
4. CEILING HEIGHTS INDICATED ARE FROM FINISH FLOOR. CEILINGS AT LANDINGS, RAMPS ETC., REFER TO NEAREST FLOOR LEVEL. COORDINATE WITH EXG. WINDOW MULLION LOCATIONS.
5. ALL EXPOSED LINTELS SHALL BE PAINTED.
6. BASE BID: RE-USE AS MUCH LIGHTING AS POSSIBLE
7. SPRINKLER HEADS TO BE LOCATED IN ACCORDANCE WITH FIRE PROTECTION DRAWINGS. PLACE HEADS AT CENTER OF ACOUSTIC CEILING TILES.

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CAPE FEAR COMMUNITY COLLEGE

PROJECT TITLE

RENOVATIONS OF GALEHOUSE (A BUILDING), MCLEOD (S BUILDING), AND NATURAL SCIENCES (N BUILDING)

411 N Front Street
Wilmington, NC 28401
SCO#17-18154-01A;NCCCS# 2352

SHEET TITLE

SECOND FLOOR REFLECTED CEILING PLAN AND ALTERNATE 2 - PARTIAL REFLECTED CEILING PLAN

ISSUE BLOCK

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A202

PLAN NORTH

N

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FINISH LEGEND

ROOM NAME
NUM
Wall Finish
Base Finish
Floor Finish

WALL FINISH
BASE FINISH
FLOOR FINISH

NOTES

AREA OF WORK

BUILDING S
BUILDING A
BUILDING N

KEY PLAN

FINISH MATERIALS LEGEND

KEY NAME	DESCRIPTION
FLOOR	
CONC-1	ALTERNATE 8: CONCRETE WITH SEALER/HARDENER
CPT-1	CARPET
CPT-2	CARPET
CT-1	CERAMIC TILE FLOORING
ETR	EXISTING TO REMAIN
LVT-1	LUXURY VINYL TILE
PFT-1	18x18 PORCELAIN FLOOR TILE
SDT-1	STATIC DISSIPATIVE TILE
BASE	
CT-2	CERAMIC TILE BASE
ETR	EXISTING TO REMAIN
VB-1	VINYL BASE
WALL	
CT-3	CERAMIC TILE WALL
CT-4	CERAMIC WALL TILE
EPT-1	EPOXY PAINT
ETR	EXISTING TO REMAIN
GWB	GYPSUM WALL BOARD
PT-1	PAINT
PT-3	ACCENT (BLUE)
PT-4	ACCENT (TBD)

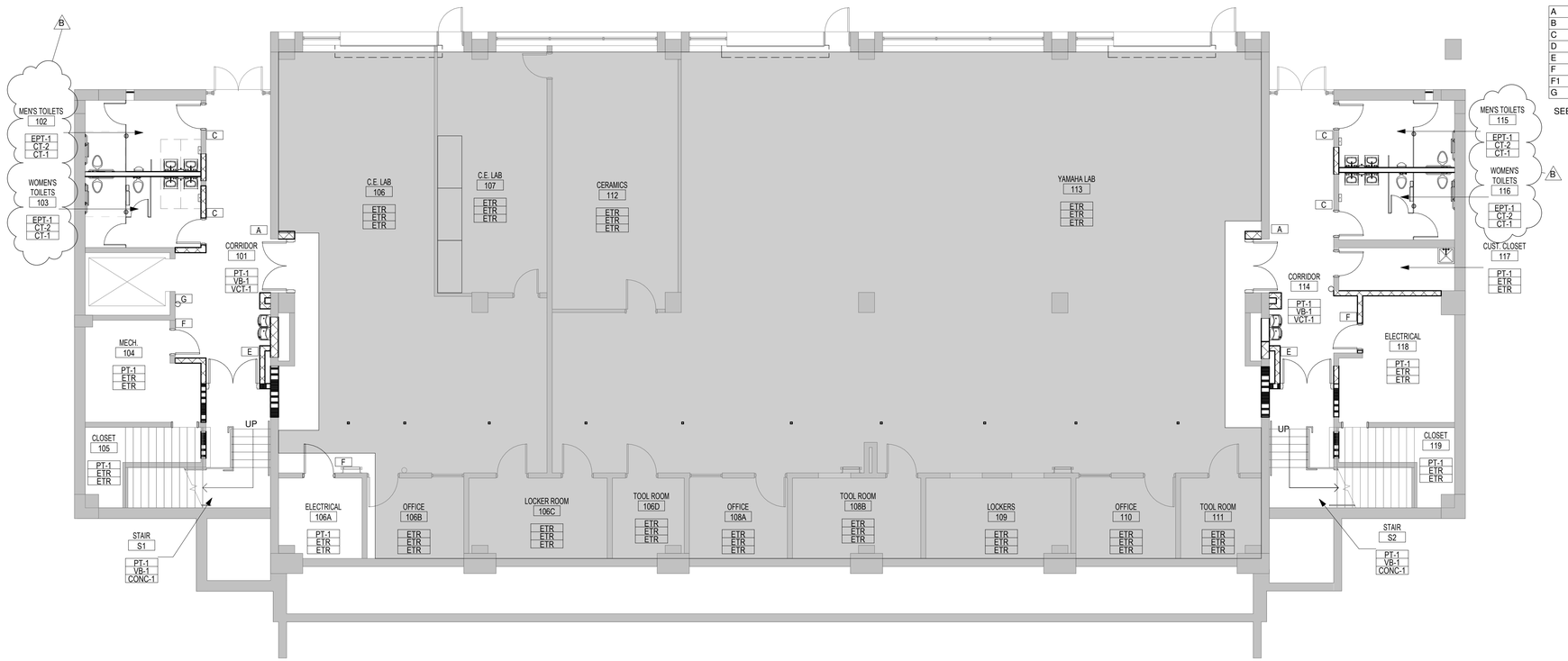
GENERAL NOTES

1	WALLS AND CEILINGS MAY CONTAIN MORE THAN ONE MATERIAL OR FINISH AS INDICATED. COORDINATE WITH CONSTRUCTION TYPE AND FINISH SIMILAR TO ADJACENT MATERIALS
2	SEE REFLECTED CEILING PLANS & CEILING NOTES FOR CEILING HEIGHTS, MATERIAL EXTENTS, LOCATIONS AND HEIGHTS OF BULKHEADS, SOFFITS, ETC.
3	PLAN WALL TYPES TAKE PRECEDENCE OVER SCHEDULED WALL FINISH. PROVIDE APPROPRIATE WALL FINISH TO CORRESPOND TO WALL TYPES.
4	MOLD AND MOISTURE RESISTANT GYPSUM BOARD SHALL BE USED AT ALL KITCHEN AREAS, TOILET ROOMS AND CUSTODIAN SERVICE CLOSETS SCHEDULED TO HAVE GYPSUM BOARD FINISHES
5	WALL AND CEILING FINISHES SHALL INCLUDE ALL PROJECTIONS, BEAM ENCLOSURES, RECESSES, BULKHEADS, MATERIAL CHANGES, OR OTHER ENCLOSURES. REFER TO REFLECTED CEILING PLANS
6	PROVIDE SEALANT/CAULK AT INTERSECTIONS OF DISSIMILAR MATERIALS AND AS RECOMMENDED BY MANUFACTURERS' GUIDELINES.
7	ALL NEW PARTITIONS AND WALLS AND EXISTING INTERIOR SHALL BE PAINTED. UNLESS OTHERWISE NOTED.
8	FURNISH AND INSTALL NEW WALL BASE TO MATCH EXISTING AT INFILLED OPENINGS, TYPICAL
9	BASE BID FOR ALL RESTROOM WALL FINISHES TO BE EPOXY PAINT. PRICE WALL TILE AS SHOWN AS ALTERNATE 7. BREAK OUT PRICE FOR WALL TILE AT RESTROOM 207 AS ALTERNATE 7A.
10	EXISTING TERRAZZO FLOOR FINISH TO BE PROTECTED AND POLISHED
11	REMOVE DAMAGED PORTIONS OF QUARRY TILE WALL BASE AND REPLACE WITH NEW TILE TO MATCH EXISTING; APPROXIMATELY 25 LINEAR FEET TOTAL

SIGNAGE LEGEND

TYPE	DESCRIPTION
A	CLASSROOM
B	OFFICE
C	RESTROOMS
D	UNISEX RESTROOM
E	STAIRS
F	GENERAL SIGN
F1	GENERAL SIGN
G	FIRE

SEE A901 FOR SIGNAGE DETAILS



1 FIRST FLOOR FINISH PLAN
SCALE: 1/8" = 1'-0"
8' 4' 0' 8'
SCALE : 1/8" = 1'-0"

PLAN NORTH

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SHEET TITLE

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ISSUE BLOCK

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A301

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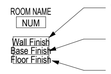
FINISH LEGEND



NOTES

FINISH MATERIALS LEGEND

KEY NAME	DESCRIPTION
FLOOR	
CONC-1	ALTERNATE 8: CONCRETE WITH SEALER/HARDENER
CPT-1	CARPET
CPT-2	CARPET
CT-1	CERAMIC TILE FLOORING
ETR	EXISTING TO REMAIN
LVT-1	LUXURY VINYL TILE
PFT-1	18x18 PORCELAIN FLOOR TILE
SDT-1	STATIC DISSIPATIVE TILE
BASE	
CT-2	CERAMIC TILE BASE
ETR	EXISTING TO REMAIN
VB-1	VINYL BASE
WALL	
CT-3	CERAMIC TILE WALL
CT-4	CERAMIC WALL TILE
EPT-1	EPOXY PAINT
ETR	EXISTING TO REMAIN
GWB	GYPSUM WALL BOARD
PT-1	PAINT
PT-3	ACCENT (BLUE)
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GENERAL NOTES	
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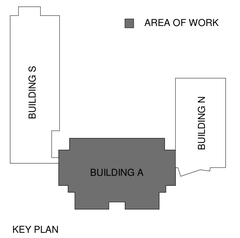
8	FURNISH AND INSTALL NEW WALL BASE TO MATCH EXISTING AT INFILLED OPENINGS, TYPICAL
9	BASE BID FOR ALL RESTROOM WALL FINISHES TO BE EPOXY PAINT. PRICE WALL TILE AS SHOWN AS ALTERNATE 7. BREAK OUT PRICE FOR WALL TILE AT RESTROOM 907 AS ALTERNATE 7A.
10	EXISTING TERRAZZO FLOOR FINISH TO BE PROTECTED AND POLISHED
11	REMOVE DAMAGED PORTIONS OF QUARRY TILE WALL BASE AND REPLACE WITH NEW TILE TO MATCH EXISTING; APPROXIMATELY 25 LINEAR FEET TOTAL

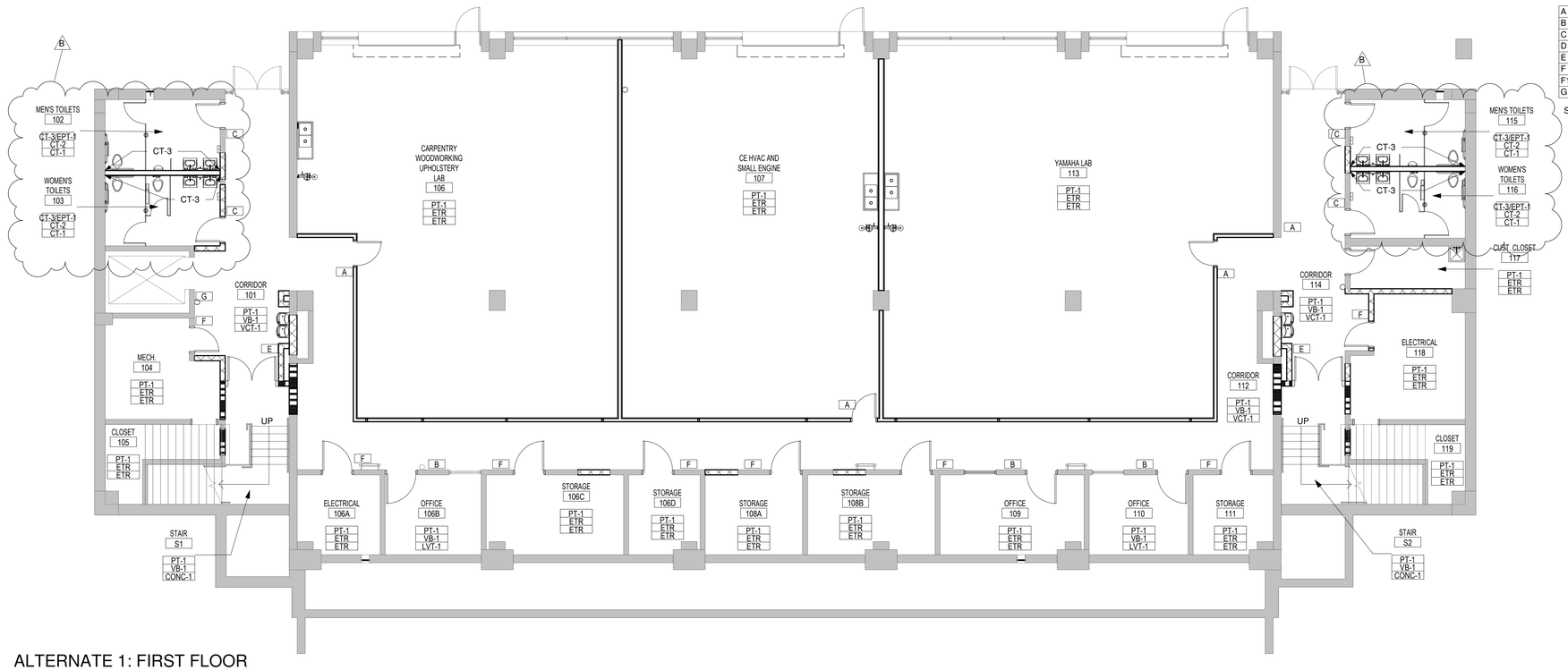


KEY PLAN

SIGNAGE LEGEND

TYPE	DESCRIPTION
A	CLASSROOM
B	OFFICE
C	RESTROOMS
D	UNISEX RESTROOM
E	STAIRS
F	GENERAL SIGN
F1	GENERAL SIGN
G	FIRE

SEE A901 FOR SIGNAGE DETAILS



1 ALTERNATE 1: FIRST FLOOR FINISH PLAN

8' 4' 0' 8' SCALE: 1/8" = 1'-0"

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

PLAN NORTH

N

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SHEET TITLE

ALTERNATE 1 - FIRST FLOOR FINISH PLAN

ISSUE BLOCK

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A301A

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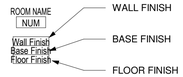
FINISH LEGEND



NOTES

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ETR	EXISTING TO REMAIN
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PFT-1	18x18 PORCELAIN FLOOR TILE
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BASE	
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WALL	
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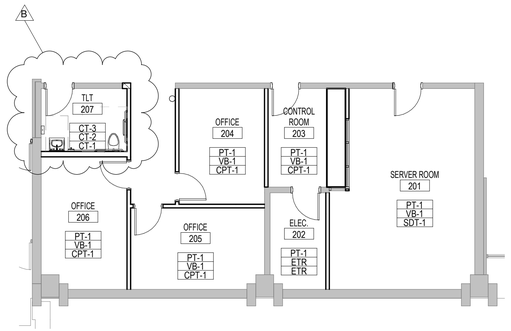
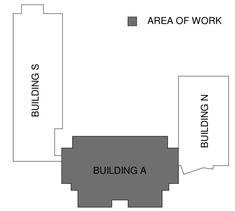


2 ALTERNATE 2 PARTIAL 2ND FLOOR FINISH PLAN

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



KEY PLAN

SIGNAGE LEGEND

TYPE	DESCRIPTION
A	CLASSROOM
B	OFFICE
C	RESTROOMS
D	UNISEX RESTROOM
E	STAIRS
F	GENERAL SIGN
F1	GENERAL SIGN
G	FIRE

SEE A901 FOR SIGNAGE DETAILS

1 2ND FLOOR FINISH PLAN

8' 4' 0' 8'

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

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

PLAN NORTH

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A302

9/3/2020 6:23:59 PM 2018023.00 CFCC ASN BASE BID_detached.rvt

FINISH LEGEND

ROOM NAME
NUM
Wall Finish
Base Finish
Floor Finish

WALL FINISH
BASE FINISH
FLOOR FINISH

NOTES

FINISH MATERIALS LEGEND

KEY NAME	DESCRIPTION
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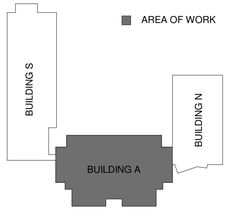

KEY PLAN

SIGNAGE LEGEND

TYPE	DESCRIPTION
A	CLASSROOM
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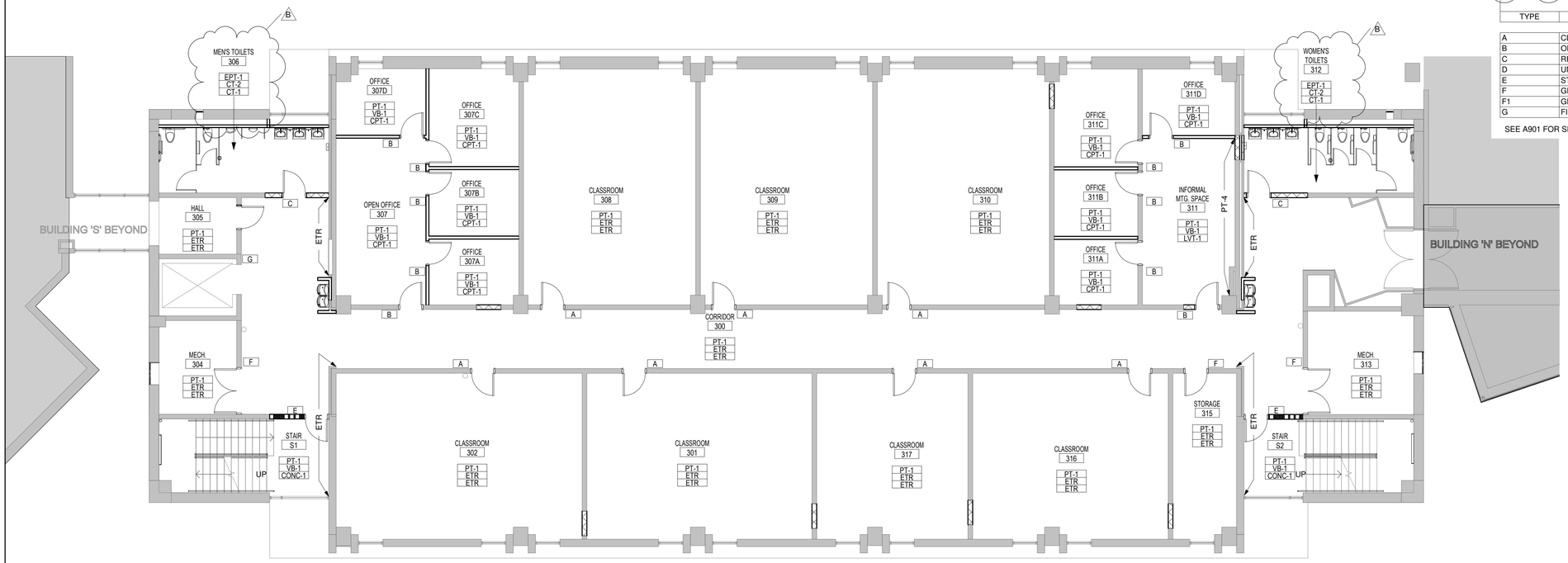
F	GENERAL SIGN
F1	GENERAL SIGN
G	FIRE

SEE A901 FOR SIGNAGE DETAILS



1 3RD FLOOR FINISH PLAN

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

8' 4' 0' 8'

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

PLAN NORTH

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CAPE FEAR COMMUNITY COLLEGE

PROJECT TITLE

RENOVATIONS OF GALEHOUSE (A BUILDING), MCLEOD (S BUILDING), AND NATURAL SCIENCES (N BUILDING)

411 N Front Street
Wilmington, NC 28401
SCO#17-18154-01A;NCCCS# 2352

SHEET TITLE

THIRD FLOOR FINISH PLAN

ISSUE BLOCK

Mark	Date	Description
B	09/03/2020	ADDENDUM #2
0	08/14/2020	ISSUED FOR BID

PROJECT NO: 2018023.00
DATE: 8/14/2020
SCALE: As indicated
DRAWN BY: VSC | PROJ MGR: DCW

A303

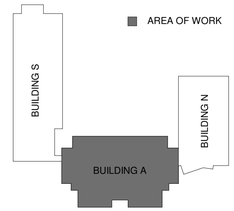
9/3/2020 6:32:33 PM 2018023.00 CFCC ASN BASE BID_detached.rvt

FINISH LEGEND

NOTES

FINISH MATERIALS LEGEND

KEY NAME	DESCRIPTION
FLOOR	
CONC-1	ALTERNATE 8: CONCRETE WITH SEALER/HARDENER
CPT-1	CARPET
CPT-2	CARPET
CT-1	CERAMIC TILE FLOORING
ETR	EXISTING TO REMAIN
LVT-1	LUXURY VINYL TILE
PFT-1	18x18 PORCELAIN FLOOR TILE
SDT-1	STATIC DISSIPATIVE TILE
BASE	
CT-2	CERAMIC TILE BASE
ETR	EXISTING TO REMAIN
VB-1	VINYL BASE
WALL	
CT-3	CERAMIC TILE WALL
CT-4	CERAMIC WALL TILE
EPT-1	EPOXY PAINT
ETR	EXISTING TO REMAIN
GWB	GYPSUM WALL BOARD
PT-1	PAINT
PT-3	ACCENT (BLUE)
PT-4	ACCENT (TBD)
GENERAL NOTES	
1	WALLS AND CEILINGS MAY CONTAIN MORE THAN ONE MATERIAL OR FINISH AS INDICATED. COORDINATE WITH CONSTRUCTION TYPE AND FINISH SIMILAR TO ADJACENT MATERIALS
2	SEE REFLECTED CEILING PLANS & CEILING NOTES FOR CEILING HEIGHTS, MATERIAL EXTENTS, LOCATIONS AND HEIGHTS OF BULKHEADS, SOFFITS, ETC.
3	PLAN WALL TYPES TAKE PRECEDENCE OVER SCHEDULED WALL FINISH. PROVIDE APPROPRIATE WALL FINISH TO CORRESPOND TO WALL TYPES.
4	MOLD AND MOISTURE RESISTANT GYPSUM BOARD SHALL BE USED AT ALL KITCHEN AREAS, TOILET ROOMS AND CUSTODIAN SERVICE CLOSETS SCHEDULED TO HAVE GYPSUM BOARD FINISHES
5	WALL AND CEILING FINISHES SHALL INCLUDE ALL PROJECTIONS, BEAM ENCLOSURES, RECESSES, BULKHEADS, MATERIAL CHANGES, OR OTHER ENCLOSURES. REFER TO REFLECTED CEILING PLANS
6	PROVIDE SEALANT/CAULK AT INTERSECTIONS OF DISSIMILAR MATERIALS AND AS RECOMMENDED BY MANUFACTURERS' GUIDELINES.
7	ALL NEW PARTITIONS AND WALLS AND EXISTING INTERIOR SHALL BE PAINTED. UNLESS OTHERWISE NOTED.
8	FURNISH AND INSTALL NEW WALL BASE TO MATCH EXISTING AT INFILLED OPENINGS, TYPICAL
9	BASE BID FOR ALL RESTROOM WALL FINISHES TO BE EPOXY PAINT. PRICE WALL TILE AS SHOWN AS ALTERNATE 7. BREAK OUT PRICE FOR WALL TILE AT RESTROOM 207 AS ALTERNATE 7A
10	EXISTING TERRAZZO FLOOR FINISH TO BE PROTECTED AND POLISHED
11	REMOVE DAMAGED PORTIONS OF QUARRY TILE WALL BASE AND REPLACE WITH NEW TILE TO MATCH EXISTING; APPROXIMATELY 25 LINEAR FEET TOTAL

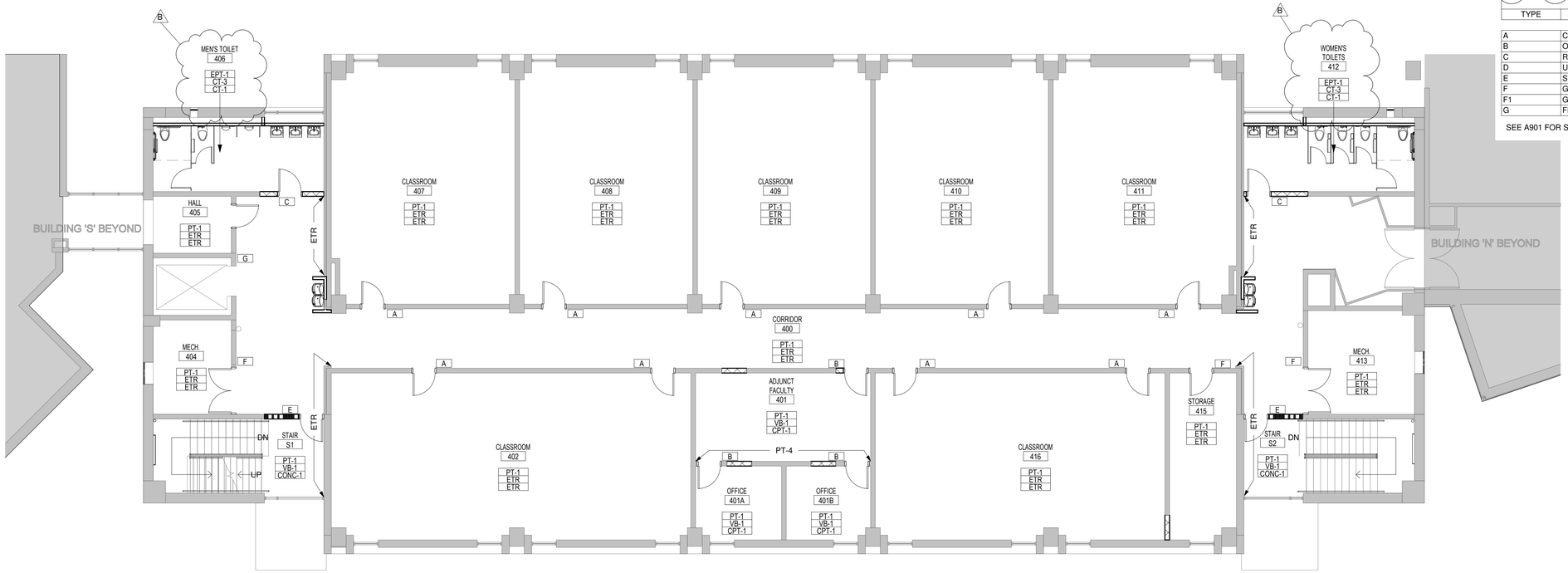


KEY PLAN

SIGNAGE LEGEND

TYPE	DESCRIPTION
A	CLASSROOM
B	OFFICE
C	RESTROOMS
D	UNISEX RESTROOM
E	STAIRS
F	GENERAL SIGN
F1	GENERAL SIGN
G	FIRE

SEE A901 FOR SIGNAGE DETAILS



1 4TH FLOOR FINISH PLAN

8' 4' 0' 8'

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

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

PLAN NORTH

N

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PROJECT TITLE

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411 N Front Street
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SCO#17-18154-01A;NCCCS# 2352

SHEET TITLE

FOURTH FLOOR FINISH PLAN

ISSUE BLOCK

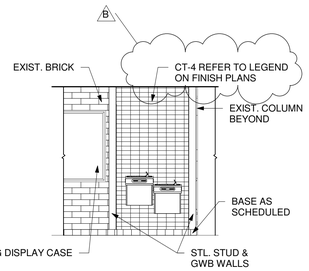
Mark	Date	Description
B	09/03/2020	ADDENDUM #2
0	08/14/2020	ISSUED FOR BID

PROJECT NO:	2018023.00
DATE:	8/14/2020
SCALE:	As indicated
DRAWN BY: Author	PROJ MGR: Checker

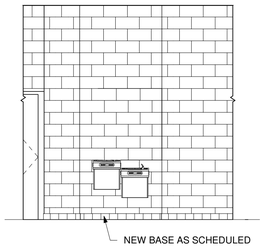
A304

9/3/2020 6:33:42 PM 201802300 CFCC ASN BASE BID_detached.rvt

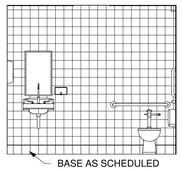
NOTE:
BASE BID FOR ALL RESTROOM WALL FINISHES TO BE EPOXY PAINT. PRICE WALL TILE AS SHOWN AS ALTERNATE 7.
BREAKOUT PRICE FOR WALL TILE AT RESTROOM 207 AS ALTERNATE 7A.



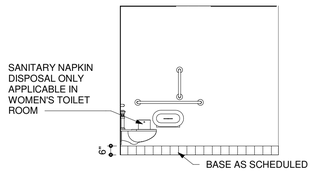
13 TYPICAL DRINKING FOUNTAIN ELEVATION FLOORS 2-4
SCALE: 1/4" = 1'-0"



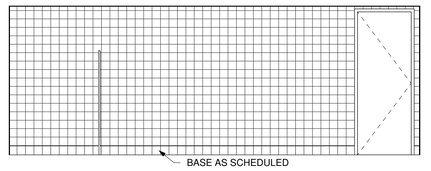
12 FIRST FLOOR DRINKING FOUNTAIN ELEVATION
SCALE: 1/4" = 1'-0"



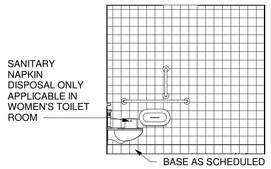
11 SECOND FLOOR TOILETS ELEVATION
SCALE: 1/4" = 1'-0"



10 TYPICAL TOILET ROOM ELEVATION FLOORS 3-4
SCALE: 1/4" = 1'-0"



9 TYPICAL TOILET ROOM ELEVATION SECOND FLOOR
SCALE: 1/4" = 1'-0"



8 TYPICAL TOILET ROOM ELEVATION SECOND FLOOR
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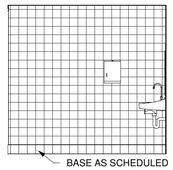

7 TYPICAL TOILET ROOM ELEVATION SECOND FLOOR
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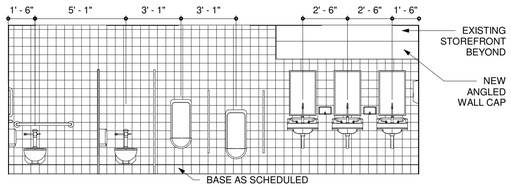
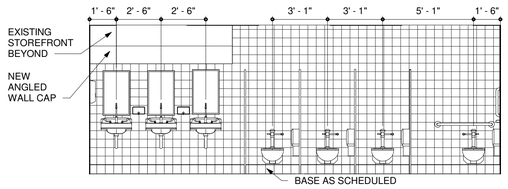


6 TYPICAL MEN'S TOILET ROOM ELEVATION FLOORS 2-4
SCALE: 1/4" = 1'-0"



5 TYPICAL WOMEN'S TOILET ROOM ELEVATION FLOORS 2-4
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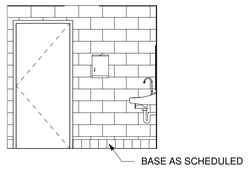
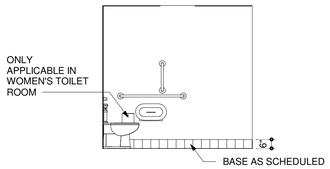
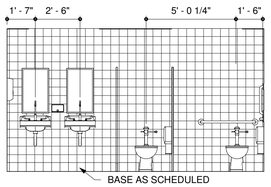


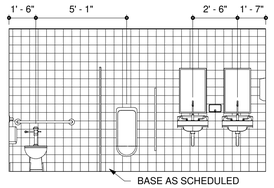
4 TYPICAL TOILET ROOM ELEVATION FIRST FLOOR
SCALE: 1/4" = 1'-0"



3 TYPICAL TOILET ROOM ELEVATION FIRST FLOOR
SCALE: 1/4" = 1'-0"



2 TYPICAL WOMEN'S TOILET ROOM ELEVATION FIRST FLOOR
SCALE: 1/4" = 1'-0"



1 TYPICAL MEN'S TOILET ROOM ELEVATION FIRST FLOOR
SCALE: 1/4" = 1'-0"

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PROJECT TITLE

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SHEET TITLE

TOILET ELEVATIONS

ISSUE BLOCK

Mark	Date	Description
B	09/03/2020	ADDENDUM #2
0	08/14/2020	ISSUED FOR BID

PROJECT NO: 2018023.00
DATE: 8/14/2020
SCALE: 1/4" = 1'-0"
DRAWN BY: VSC | PROJ MGR: DCW

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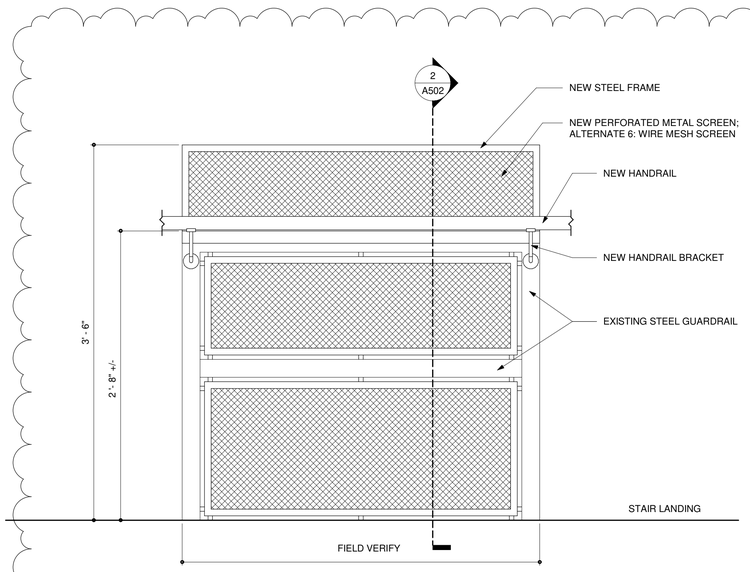
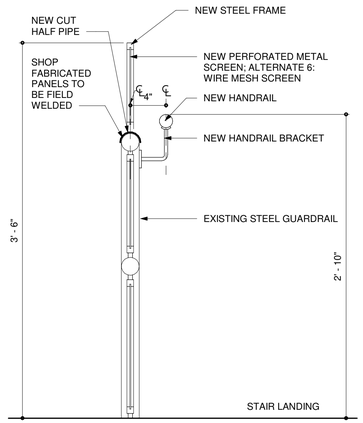


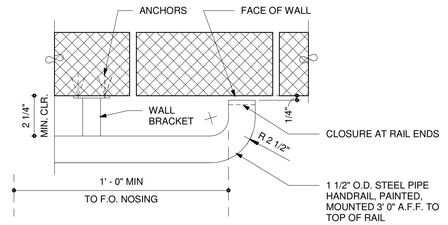
1 GUARDRAIL ELEVATION

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



2 GUARDRAIL SECTION

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



3 WALL-MOUNTED HANDRAIL DETAIL

SCALE: 3" = 1'-0"

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PROJECT TITLE

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411 N Front Street
Wilmington, NC 28401
SCO#17-18154-01A;NCCCS# 2352

SHEET TITLE

STAIR DETAILS

ISSUE BLOCK

Mark	Date	Description
B	09/03/2020	ADDENDUM #2
0	08/14/2020	ISSUED FOR BID

PROJECT NO: 2018023.00
DATE: 8/14/2020
SCALE: As indicated
DRAWN BY: LJR | PROJ MGR: DCW

A502

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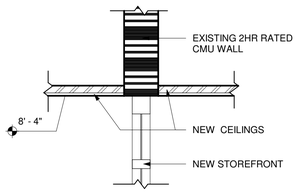
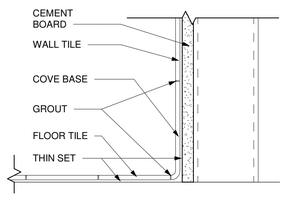
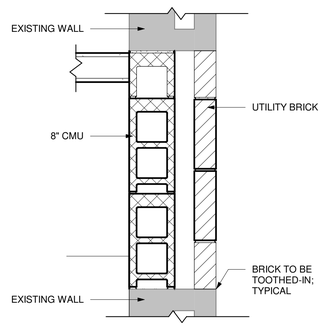


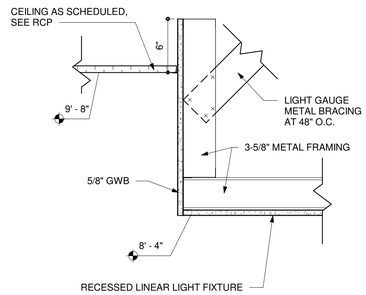
12 TYPICAL STAIR CEILING DETAIL
SCALE: 3/4" = 1'-0"



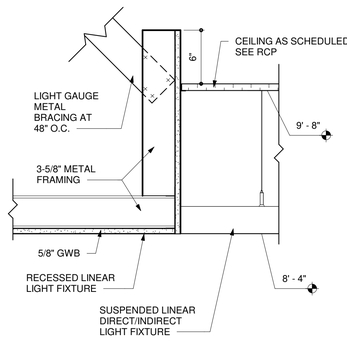
11 TILE COVE BASE DETAIL
SCALE: 3" = 1'-0"



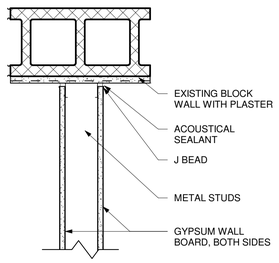
10 WALL INFILL PLAN DETAIL
SCALE: 1" = 1'-0"



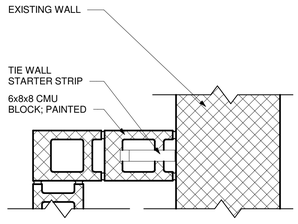
9 BULKHEAD DETAIL 2
SCALE: 1 1/2" = 1'-0"



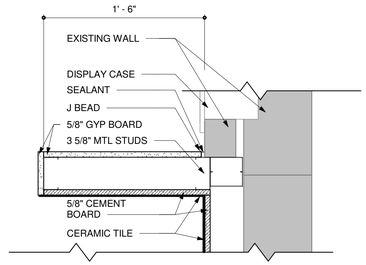
8 BULKHEAD DETAIL 1
SCALE: 1 1/2" = 1'-0"



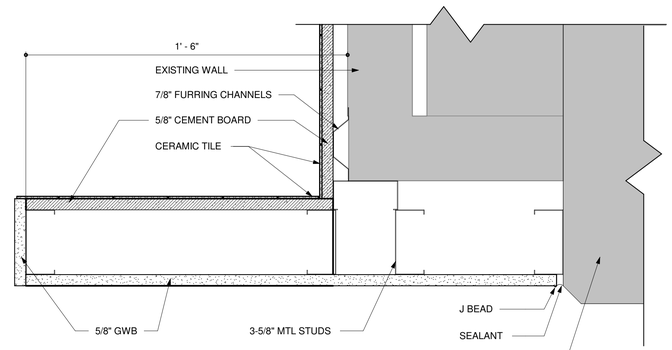
7 GYP TO PLASTER DETAIL
SCALE: 1 1/2" = 1'-0"



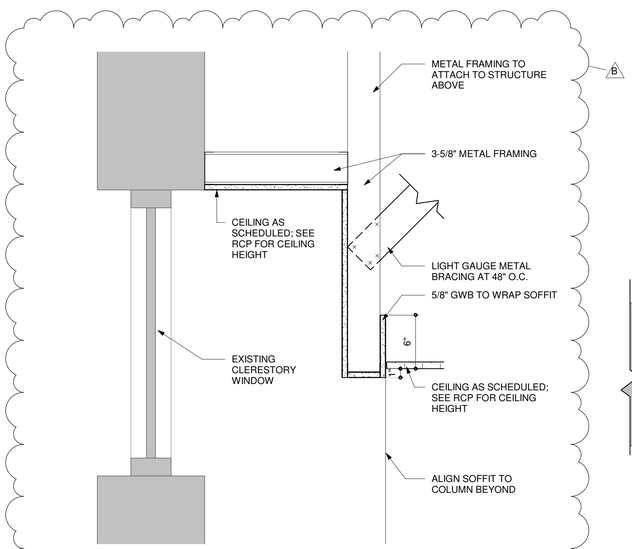
6 DRINKING FOUNTAIN WALL CONNECTION DETAIL
SCALE: 1 1/2" = 1'-0"



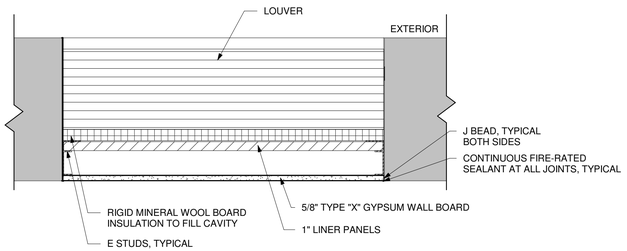
5 DRINKING FOUNTAIN WING WALL DETAIL 2
SCALE: 1 1/2" = 1'-0"



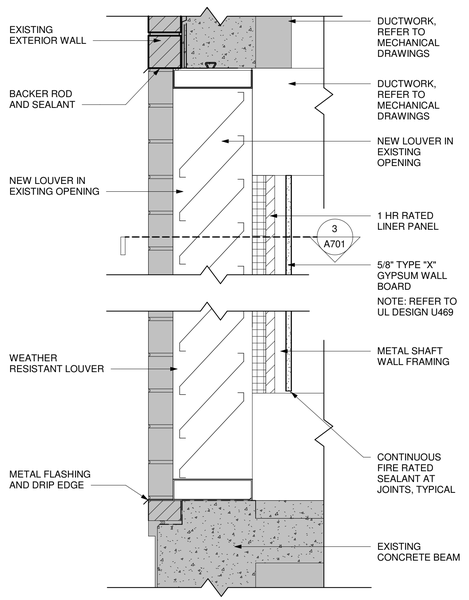
4 DRINKING FOUNTAIN WING WALL DETAIL 1
SCALE: 3" = 1'-0"



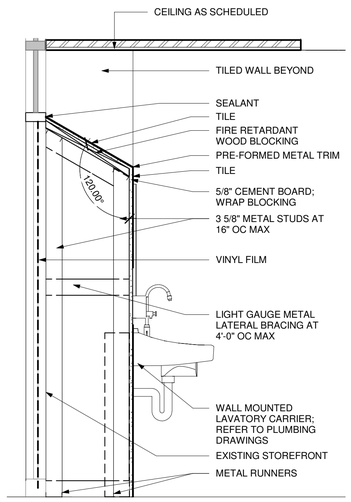
13 CLERESTORY SOFFIT DETAIL
SCALE: 1 1/2" = 1'-0"



3 LOUVER SECTION PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



2 LOUVER SECTION DETAIL
SCALE: 1 1/2" = 1'-0"



1 TYPICAL BATHROOM STOREFRONT SECTION
SCALE: 3/4" = 1'-0"

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CAPE FEAR COMMUNITY COLLEGE

PROJECT TITLE

RENOVATIONS OF GALEHOUSE (A BUILDING), MCLEOD (S BUILDING), AND NATURAL SCIENCES (N BUILDING)

411 N Front Street
Wilmington, NC 28401
SCO#17-18154-01A;NCCCS# 2352

SHEET TITLE

SECTIONS AND DETAILS

ISSUE BLOCK

Mark	Date	Description
B	09/03/2020	ADDENDUM #2
0	08/14/2020	ISSUED FOR BID

PROJECT NO: 2018023.00
DATE: 8/14/2020
SCALE: As indicated
DRAWN BY: VSC | PROJ MGR: DCW

A701

9/3/2020 8:23:20 PM 2018023000 CFCC ASN BASE BID_detached.rvt

HARDWARE SCHEDULE

A

HARDWARE SET 1

3 HINGES (HEAVY WEIGHT)
1 EXIT DEVICE (PASSAGE)
1 INTERCHANGEABLE CORE
1 SURFACE CLOSER
1 KICK PLATE
1 ELECTROMAGNETIC HOLDER
1 GASKETING

HARDWARE SET 2

3 HINGES
1 SECURITY STOREROOM LOCK
1 INTERCHANGEABLE CORE
1 SURFACE CLOSER
1 THRESHOLD
1 GASKETING
1 SWEEP

HARDWARE SET 3

3 HINGES (HEAVY WEIGHT)
1 EXIT DEVICE (PASSAGE)
1 SURFACE CLOSER
1 KICK PLATE
1 WALL STOP
1 GASKETING
3 SILENCER

HARDWARE SET 4

3 HINGES (HEAVY WEIGHT)
1 EXIT DEVICE (PASSAGE)
1 SURFACE CLOSER
1 KICK PLATE
1 ELECTROMAGNETIC HOLDER
1 GASKETING

HARDWARE SET 5

6 HINGES (HEAVY WEIGHT)
1 REMOVABLE MULLION
1 EXIT DEVICE (EXIT ONLY)
1 EXIT DEVICE (PASSAGE)
1 INTERCHANGEABLE CORE
1 CYLINDER HOUSING
1 CONC OVERHEAD STOP
2 SURFACE CLOSER
1 WALL STOP
2 ELECTROMAGNETIC HOLDER
1 GASKETING
1 MULLION GASKETING

HARDWARE SET 6

3 HINGS, FULL MORTISE
1 EXIT DEVICE (STOREROOM)
1 INTERCHANGEABLE CORE
1 SURFACE CLOSER
1 GASKETING

HARDWARE SET 7

4 HINGES
1 CLASSROOM LOCK
1 INTERCHANGEABLE CORE
1 WALL STOP
3 SILENCER

HARDWARE SET 8

4 HINGES
1 CLASSROOM LOCK
1 INTERCHANGEABLE CORE
1 SURF OVERHEAD STOP
3 SILENCER

HARDWARE SET 9

3 HINGES (HEAVY WEIGHT)
1 CLASSROOM LOCK
1 INTERCHANGEABLE CORE
1 SURF OVERHEAD STOP
1 SURFACE CLOSER
1 KICK PLATE
1 GASKETING

HARDWARE SET 9.1

4 HINGES
1 CLASSROOM LOCK
1 INTERCHANGEABLE CORE
1 SURFACE CLOSER
1 KICK PLATE
1 WALL STOP
3 SILENCER

HARDWARE SET 10

3 HINGES (HEAVY WEIGHT)
1 CLASSROOM LOCK
1 INTERCHANGEABLE CORE
1 SURFACE CLOSER
1 KICK PLATE
1 WALL STOP
1 GASKETING

HARDWARE SET 10.1

6 HINGES (HEAVY WEIGHT)
1 FLUSH BOLT (AUTO SET)
1 DUST PROOF STRIKE
1 CLASSROOM LOCK
1 INTERCHANGEABLE CORE
1 COORDINATOR
2 MOUNTING BRACKET
2 SURFACE CLOSER
2 KICK PLATE
2 WALL STOP
1 ASTRAGAL
2 SILENCER

HARDWARE SET 11

3 HINGS
1 OFFICE LOCK
1 INTERCHANGEABLE CORE
1 WALL STOP
3 SILENCER

HARDWARE SET 12

3 HINGS
1 OFFICE LOCK
1 INTERCHANGEABLE CORE
1 SURFACE CLOSER
1 KICK PLATE
1 WALL STOP
1 GASKETING

HARDWARE SET 13

3 HINGS
1 OFFICE LOCK
1 INTERCHANGEABLE CORE
1 SURF OVERHEAD CLOSER
1 SURFACE CLOSER
1 KICK PLATE
1 GASKETING

HARDWARE SET 14

3 HINGS
1 PRIVACY LOCK
1 SURFACE CLOSER
1 KICK PLATE
1 WALL STOP
1 GASKETING

HARDWARE SET 15

3 HINGS (HEAVY WEIGHT)
1 PUSH PLATE
1 PULL PLATE
1 SURFACE CLOSER
1 KICK PLATE
1 WALL STOP
3 SILENCER

HARDWARE SET 16

3 HINGS, FULL MORTISE
1 STOREROOM LOCK
1 INTERCHANGEABLE CORE
1 WALL STOP
3 SILENCER

HARDWARE SET 17

3 HINGS, FULL MORTISE
1 STOREROOM LOCK
1 INTERCHANGEABLE CORE
1 SURF OVERHEAD HOLD OPEN
3 SILENCER

HARDWARE SET 18

3 HINGS
1 STOREROOM LOCK
1 INTERCHANGEABLE CORE
1 SURFACE CLOSER
1 KICK PLATE
1 WALL STOP
3 SILENCER

HARDWARE SET 19

6 HINGS
2 FLUSH BOLTS
1 DUST PROOF STRIKE
1 STOREROOM LOCK
1 INTERCHANGEABLE CORE
1 SURFACE CLOSER
2 KICK PLATE
2 WALL STOP
1 GASKETING
1 ASTRAGAL SEAL
1 ASTRAGAL

HARDWARE SET 20

3 HINGS
1 STOREROOM LOCK
1 INTERCHANGEABLE CORE
1 SURFACE CLOSER
1 KICK PLATE
1 WALL STOP
1 GASKETING

HARDWARE SET 21

3 HINGS
1 STOREROOM LOCK
1 INTERCHANGEABLE CORE
1 SURFACE CLOSER
1 WALL STOP
1 GASKETING

HARDWARE SET 22

1 INTERCHANGEABLE CORE
1 CYLINER HOUSING

HARDWARE SET 23

1 CASED OPENING

DOOR AND FRAME SCHEDULE

ROOM NAME	DOOR NUMBER	FIRE RATING	DOOR SIZE OPENING WIDTH	DOOR SIZE HEIGHT	DOOR DESCRIPTION TYPE	DOOR DESCRIPTION MATERIAL	DOOR DESCRIPTION FINISH	FRAME DESCRIPTION TYPE	FRAME DESCRIPTION MATERIAL	FRAME DESCRIPTION FINISH	FRAME DETAILS HEAD	FRAME DETAILS JAMB	HARDWARE SET	REMARKS
1ST FLOOR														
STAIR	101.1	90 MIN	6' - 0"	7' - 0"	N2	SCWD	PT	B	HM	PT	H4	J4	5.0	MAGNETIC HOLD OPEN
MEN'S TOILETS	102	-	3' - 0"	7' - 0"	F	SCWD	PT	A	HM	PT	H3	J4	15.0	
WOMEN'S TOILETS	103	-	3' - 0"	7' - 0"	F	SCWD	PT	A	HM	PT	H2	J3	15.0	
MECH.	104	-	3' - 0"	7' - 0"	F	SCWD	PT	A	HM	PT	H3	J4	21.0	
CLOSET	105	-	3' - 0"	7' - 0"	CO	SCWD	PT	A	HM	PT	H5	J5	23.0	CASED OPENING
C.E. LAB	106	--	6' - 0"	7' - 0"	N2	SCWD	PT	A	HM	PT	H4	J4	10.1	
C.E. LAB	106A	-	3' - 8"	7' - 0"	F	SCWD	PT	A	HM	PT			6.0	
YAMAHA LAB	113	-	6' - 0"	7' - 0"	N2	SCWD	PT	A	HM	PT	H4	J4	10.1	
STAIR	114.1	90 MIN	6' - 0"	7' - 0"	N2	SCWD	PT	B	HM	PT	H4	J4	5.0	MAGNETIC HOLD OPEN
MEN'S TOILETS	115	-	3' - 0"	7' - 0"	F	SCWD	PT	A	HM	PT	H3	J4	15.0	
ELECTRICAL	118	-	3' - 0"	7' - 0"	F	SCWD	PT	A	HM	PT	H2	J3	6.0	
CLOSET	119	-	3' - 0"	7' - 0"	CO	SCWD	PT	A	HM	PT	H5	J5	23.0	CASED OPENING
WOMEN'S TOILETS	X116	-	3' - 0"	7' - 0"	F	SCWD	PT	ETR	HM	PT	ETR	ETR	15.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
CUST. CLOSET	X117	-	3' - 0"	7' - 0"	F	SCWD	PT	ETR	HM	PT	ETR	ETR	16.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
2ND FLOOR														
LOBBY	200	-	6' - 0"	7' - 0"	FG2	ALUM/GLAZ	ANOD	F	ALUM	ANOD	-	-	-	EXISTING STOREFONT; VERIFY DIMENSIONS IN FIELD
MEN'S TOILETS	210	-	3' - 0"	8' - 0"	FP	SCWD	ST	A	HM	PT	H1	J3	15.0	
STAIR	211A	90 MIN	3' - 0"	7' - 0"	N	SCWD	ST	A	HM	PT	H4	J4	1.0	MAGNETIC HOLD OPEN; EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
STAIR	211B	90 MIN	3' - 0"	7' - 0"	N	SCWD	ST	A	HM	PT	H4	J4	1.0	MAGNETIC HOLD OPEN; EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
INFORMAL MTG. SPACE	212	-	3' - 0"	8' - 2"	GP	SCWD	ST	C	HM	PT	H5	J5	10.0	A
OFFICE	212A	-	3' - 0"	7' - 0"	G	SCWD	ST	C	HM	PT	H5	J5	11.0	
OFFICE	212B	-	3' - 0"	7' - 0"	G	SCWD	ST	C	HM	PT	H5	J5	11.0	
OFFICE	212C	-	3' - 0"	7' - 0"	G	SCWD	ST	C	HM	PT	H5	J5	11.0	
OFFICE	213.1	-	3' - 0"	8' - 2"	GP	SCWD	ST	C	HM	PT	H5	J5	13.0	
OFFICE	213.2	-	3' - 0"	7' - 0"	G	SCWD	ST	C	HM	PT	H5	J5	11.0	
IT HELP DESK	214	-	3' - 0"	8' - 2"	GP	SCWD	ST	C	HM	PT	H5	J5	13.0	
FACULTY & STAFF BREAK ROOM	216	-	3' - 0"	8' - 2"	NP	SCWD	ST	C	HM	PT	H5	J5	11.0	
OFFICE	220A	-	3' - 0"	7' - 0"	G	SCWD	ST	C	HM	PT	H5	J5	11.0	
OFFICE	220B	-	3' - 0"	7' - 0"	G	SCWD	ST	C	HM	PT	H5	J5	11.0	
OFFICE	220C	-	3' - 0"	7' - 0"	G	SCWD	ST	C	HM	PT	H5	J5	11.0	
NHCSO FRONT DESK/ LOST & FOUND	220D	-	3' - 0"	7' - 0"	G	SCWD	ST	C	HM	PT	H5	J5	11.0	
WOMEN'S TOILETS	223	-	3' - 0"	8' - 0"	FP	SCWD	ST	A	HM	PT	H1	J3	15.0	
CONF. ROOM	227	-	3' - 0"	8' - 2"	A GP	SCWD	ST	C	HM	PT	H5	J5	7.0	
OFFICE	229	-	3' - 0"	7' - 0"	G	SCWD	ST	C	HM	PT	H5	J5	11.0	
OFFICE	230	-	3' - 0"	8' - 2"	GP	SCWD	ST	A C	ETR	PT	ETR	ETR	12.0	
OFFICE	231	-	3' - 0"	7' - 0"	G	SCWD	ST	C	ETR	PT	ETR	ETR	11.0	
TLT	232	-	3' - 0"	8' - 2"	FP	SCWD	ST	C	HM	PT	H5	J5	14.0	CARD ACCESS
RISER	233	-	3' - 0"	7' - 0"	F	HM	PT	C	HM	PT	H5	J5	2.0	
MECH.	X208	-	6' - 0"	7' - 0"	F2	SCWD	ST	ETR	ETR	PT	ETR	ETR	19.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
HALL	X209	90 MIN	3' - 0"	7' - 6"	N	SCWD	ST	ETR	ETR	PT	ETR	ETR	3.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
NHCSO & SECURITY	X220.1	-	3' - 0"	8' - 2"	NP	SCWD	ST	ETR	HM	PT	ETR	ETR	10.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
NHCSO & SECURITY	X220.2	-	3' - 0"	8' - 2"	NP	SCWD	ST	ETR	ETR	PT	ETR	ETR	10.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
OFFICE	X221	-	3' - 0"	7' - 0"	G	SCWD	ST	C	ETR	PT	ETR	ETR	11.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
OFFICE	X222	-	3' - 0"	7' - 0"	G	SCWD	ST	ETR	ETR	PT	ETR	ETR	11.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
MECH	X224	-	6' - 0"	7' - 0"	F2	SCWD	ST	ETR	ETR	PT	ETR	ETR	19.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
STUDENT WORKSPACE	X228	-	3' - 0"	8' - 2"	GP	SCWD	ST	C	HM	PT	H5	J5	7.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
3RD FLOOR														
STAIR	300A	90 MIN	3' - 0"	7' - 0"	N	SCWD	H	A	HM	PT	H4	J4	4.0	MAGNETIC HOLD OPEN; EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
STAIR	300B	90 MIN	3' - 0"	7' - 0"	N	SCWD	PT	A	HM	PT	H4	J4	4.0	MAGNETIC HOLD OPEN; EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
MEN'S TOILETS	306	-	3' - 0"	8' - 0"	F	SCWD	PT	A	HM	PT	H1	J3	15.0	
OPEN OFFICE	307	-	3' - 0"	8' - 2"	NP	SCWD	PT	C	HM	PT	H5	J5	10.0	
OFFICE	307A	-	3' - 0"	7' - 0"	G	SCWD	PT	C	HM	PT	H5	J5	11.0	
OFFICE	307B	-	3' - 0"	7' - 0"	G	SCWD	PT	C	HM	PT	H5	J5	11.0	
OFFICE	307C	-	3' - 0"	7' - 0"	G	SCWD	PT	C	HM	PT	H5	J5	11.0	
OFFICE	307D	-	3' - 0"	7' - 0"	G	SCWD	PT	C	HM	PT	H5	J5	11.0	
INFORMAL MTG. SPACE	311		3' - 0"	8' - 2"	NP	SCWD	PT	C	HM	PT	H5	J5	9.0	
OFFICE	311A	-	3' - 0"	7' - 0"	G	SCWD	PT	C	HM	PT	H5	J5	11.0	
OFFICE	311B	-	3' - 0"	7' - 0"	G	SCWD	PT	C	HM	PT	H5	J5	11.0	
OFFICE	311C	-	3' - 0"	7' - 0"	G	SCWD	PT	C	HM	PT	H5	J5	11.0	
OFFICE	311D	-	3' - 0"	7' - 0"	G	SCWD	PT	C	HM	PT	H5	J5	11.0	
WOMEN'S TOILETS	312	-	3' - 0"	8' - 0"	F	SCWD	PT	A	HM	PT	H1	J3	15.0	
CLASSROOM	X301	-	3' - 0"	8' - 2"	NP	SCWD	PT	ETR	ETR	PT	ETR	ETR	7.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
CLASSROOM	X302	-	3' - 0"	8' - 2"	NP	SCWD	PT	ETR	ETR	PT	ETR	ETR	7.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
MECH.	X304	-	6' - 0"	7' - 0"	F2	SCWD	PT	ETR	ETR	PT	ETR	ETR	19.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
HALL	X305	90 MIN	3' - 0"	7' - 6"	N	SCWD	PT	ETR	ETR	PT	ETR	ETR	3.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
CLASSROOM	X308	-	3' - 0"	8' - 2"	NP	SCWD	PT	ETR	ETR	PT	ETR	ETR	8.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
CLASSROOM	X309	-	3' - 0"	8' - 2"	NP	SCWD	PT	ETR	ETR	PT	ETR	ETR	8.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
CLASSROOM	X310	-	3' - 0"	8' - 2"	NP	SCWD	PT	ETR	ETR	PT	ETR	ETR	8.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
MECH.	X313	-	6' - 0"	7' - 0"	F2	SCWD	PT	ETR	ETR	PT	ETR	ETR	19.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
STORAGE	X315	-	3' - 0"	8' - 2"	FP	SCWD	PT	ETR	ETR	PT	ETR	ETR	17.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
CLASSROOM	X316	-	3' - 0"	8' - 2"	NP	SCWD	PT	ETR	ETR	PT	ETR	ETR	8.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
CLASSROOM	X317	-	3' - 0"	8' - 2"	NP	SCWD	PT	ETR	ETR	PT	ETR	ETR	7.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
4TH FLOOR														
STAIR	400A	90 MIN	3' - 0"	7' - 0"	N	SCWD	PT	A	HM	PT	H4	J4	4.0	MAGNETIC HOLD OPEN; EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
STAIR	400B	90 MIN	3' - 0"	7' - 0"	N	SWCD	PT	A	HM	PT	H4	J4	4.0	MAGNETIC HOLD OPEN; EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
ADJUNCT FACULTY	401	-	3' - 0"	8' - 2"	FP	SCWD	PT	C	HM	PT	H5	J5	9.1	
OFFICE	401A	-	3' - 0"	7' - 0"	G	SCWD	PT	C	HM	PT	H5	J5	11.0	
OFFICE	401B	-	3' - 0"	7' - 0"	G	SCWD	PT	C	HM	PT	H5	J5	11.0	
MEN'S TOILET	406	-	3' - 0"	7' - 0"	F	SCWD	PT	A	HM	PT	H1	J3	15.0	
WOMEN'S TOILETS	412	-	3' - 0"	7' - 0"	F	SCWD	PT	A	HM	PT	H1	J3	15.0	
CLASSROOM	X402	-	3' - 0"	8' - 2"	FP	SCWD	PT	ETR	ETR	PT	ETR	ETR	8.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
CLASSROOM	X402.1	-	3' - 0"	8' - 2"	FP	SCWD	PT	ETR	ETR	PT	ETR	ETR	7.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
MECH.	X404		6' - 0"	7' - 0"	F2	SCWD	PT	ETR	ETR	PT	ETR	ETR	19.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
HALL	X405	90 MIN	3' - 0"	7' - 6"	N	SCWD	PT	ETR	ETR	PT	ETR	ETR	3.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
CLASSROOM	X407	-	3' - 0"	8' - 2"	FP	SCWD	PT	ETR	ETR	PT	ETR	ETR	8.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
CLASSROOM	X408	-	3' - 0"	8' - 2"	FP	SCWD	PT	ETR	ETR	PT	ETR	ETR	8.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
CLASSROOM	X409	-	3' - 0"	8' - 2"	FP	SCWD	PT	ETR	ETR	PT	ETR	ETR	8.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
CLASSROOM	X410	-	3' - 0"	8' - 2"	FP	SCWD	PT	ETR	ETR	PT	ETR	ETR	7.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
CLASSROOM	X411	-	3' - 0"	8' - 2"	FP	SCWD	PT	ETR	ETR	PT	ETR	ETR	8.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
MECH.	X413	-	6' - 0"	7' - 0"	F2	SCWD	PT	ETR	ETR	PT	ETR	ETR	19.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
STORAGE	X415	-	3' - 0"	8' - 2"	FP	SCWD	PT	ETR	ETR	PT	ETR	ETR	17.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
CLASSROOM	X416	-	3' - 0"	8' - 2"	FP	SCWD	PT	ETR	ETR	PT	ETR	ETR	8.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD
CLASSROOM	X416.1	-	3' - 0"	8' - 2"	FP	SCWD	PT	ETR	ETR	PT	ETR	ETR	8.0	ALTERNATE 11: EXISTING OPENING, VERIFY DIMENSIONS IN FIELD

B

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CAPE FEAR COMMUNITY COLLEGE

PROJECT TITLE

RENOVATIONS OF GALEHOUSE (A BUILDING), MCLEOD (S BUILDING), AND NATURAL SCIENCES (N BUILDING)

411 N Front Street
Wilmington, NC 28401
SCO#17-18154-01A;NCCCS# 2352

SHEET TITLE

DOOR AND HARDWARE SCHEDULES

ISSUE BLOCK

Mark	Date	Description
B	09/03/2020	ADDENDUM #2
A	08/28/2020	ADDENDUM #1
0	08/14/2020	ISSUED FOR BID

PROJECT NO: 2018023.00
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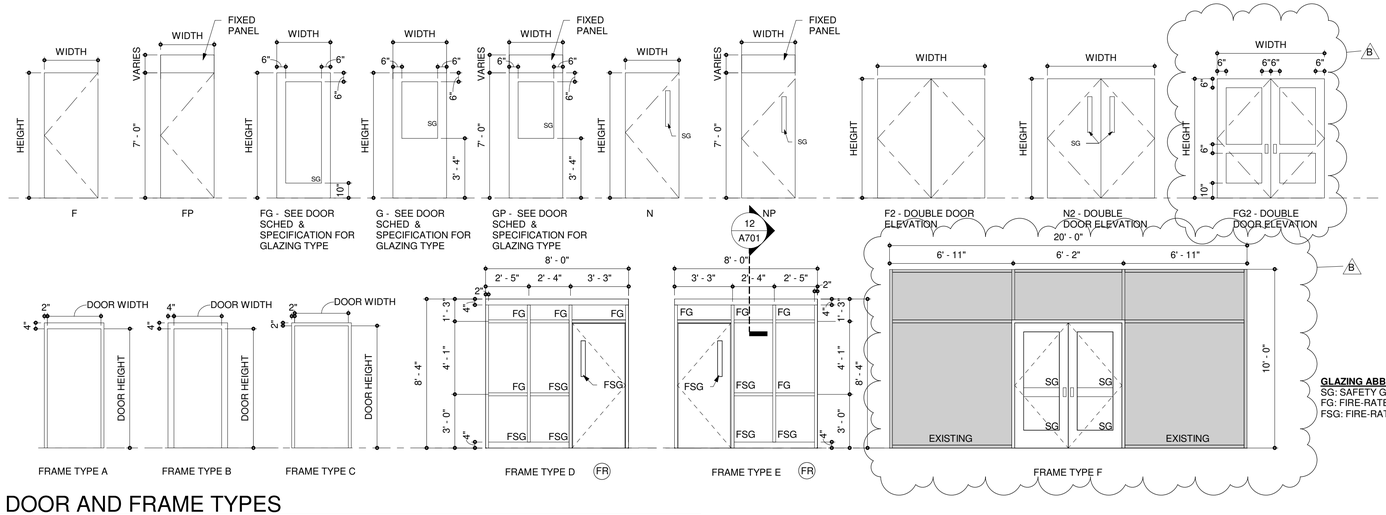
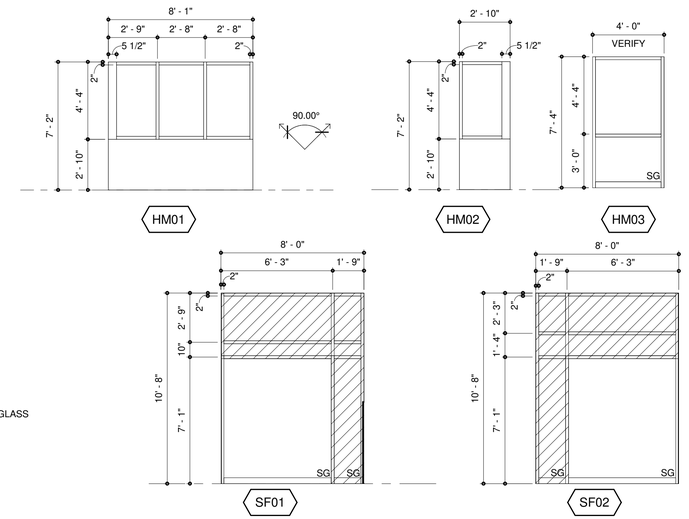
DRAWN BY: VSC | PROJ MGR: LML

A801

9/3/2020 8:53:05 PM 201802300 CFCC ASN BASE BID_detached.rvt





DOOR AND FRAME TYPES

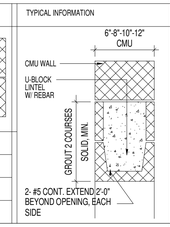
1/4" = 1'-0"

LINTEL SCHEDULE - NEW CONSTRUCTION

1. PROVIDE LINTELS, WHETHER INDICATED OR NOT OVER ALL NEW OPENINGS, OR EXISTING OPENINGS THAT HAVE BEEN MODIFIED, IN EXISTING MASONRY WALLS AS REQUIRED BY STRUCTURAL, ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. COMBINE VARIOUS WYTHES OF MASONRY AS REQUIRED TO SUIT PROJECT. ALL CONDITIONS MAY NOT OCCUR.
2. ALL LINTELS ARE TO HAVE 8" MINIMUM BEARING AT EACH END.
3. ALL EXTERIOR LINTELS ARE TO BE GALVANIZED.
4. ALL EXTERIOR ANGLES TO BE LOCATED 1/2" BACK FROM FACE OF FINISHED WALL.
5. SEE STRUCTURAL DRAWINGS FOR ALL OPENINGS OVER 8'-4"

MASONRY OPENING	4" MASONRY	6" MASONRY	8" MASONRY	10" MASONRY	12" MASONRY	4/4/STUD	4/4/8 CAVITY	4/4/10 CAVITY	4/4/12 CAVITY
UP TO 5'-0"	1L - 3 1/2" X 3 1/2" X 5/16"	BOND BEAM	BOND BEAM	BOND BEAM	BOND BEAM	1L - 5 X 5 X 5/16"	1L - 5 X 5 X 5/16" 8" BOND BEAM W/ 2-#5 REBAR	1L - 5 X 5 X 5/16" 10" BOND BEAM W/ 2-#5 REBAR	1L - 5 X 5 X 5/16" 12" BOND BEAM W/ 2-#5 REBAR
5'-0" TO 6'-0"	1L - 6" X 3 1/2" X 5/16"	BOND BEAM	BOND BEAM	BOND BEAM	BOND BEAM	1L - 5 X 5 X 5/16"	1L - 5 X 5 X 5/16" 8" BOND BEAM W/ 2-#5 REBAR	1L - 5 X 5 X 5/16" 10" BOND BEAM W/ 2-#5 REBAR	1L - 5 X 5 X 5/16" 12" BOND BEAM W/ 2-#5 REBAR
6'-0" TO 7'-4"	1L - 6" X 3 1/2" X 5/16"	BOND BEAM	BOND BEAM	BOND BEAM	BOND BEAM	1L - 5 X 5 X 3/8"	1L - 5 X 5 X 5/16" 8" BOND BEAM W/ 2-#5 REBAR	1L - 5 X 5 X 5/16" 10" BOND BEAM W/ 2-#5 REBAR	1L - 5 X 5 X 5/16" 12" BOND BEAM W/ 2-#5 REBAR
7'-4" TO 8'-4"	1L - 6" X 3 1/2" X 3/8"	BOND BEAM	BOND BEAM	BOND BEAM	BOND BEAM	1L - 5 X 5 X 3/8"	1L - 5 X 5 X 5/16" 8" BOND BEAM W/ 2-#5 REBAR	1L - 5 X 5 X 5/16" 10" BOND BEAM W/ 2-#5 REBAR	1L - 5 X 5 X 5/16" 12" BOND BEAM W/ 2-#5 REBAR

TYPICAL INFORMATION



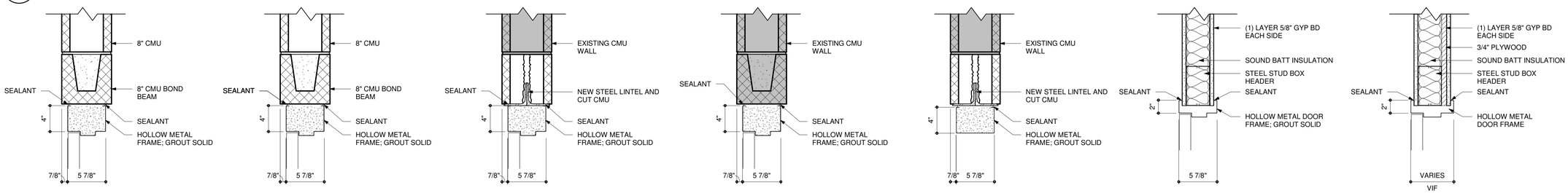
LINTEL SCHEDULE - EXISTING CONSTRUCTION

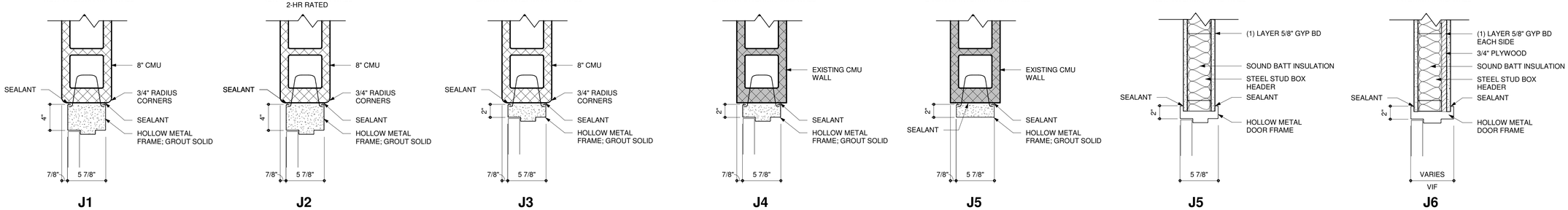
1. PROVIDE LINTELS, WHETHER INDICATED OR NOT OVER ALL NEW OPENINGS, OR EXISTING OPENINGS THAT HAVE BEEN MODIFIED, IN EXISTING MASONRY WALLS AS REQUIRED BY STRUCTURAL, ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. COMBINE VARIOUS WYTHES OF MASONRY AS REQUIRED TO SUIT PROJECT. ALL CONDITIONS MAY NOT OCCUR.
2. ALL LINTELS ARE TO HAVE 8" MINIMUM BEARING AT EACH END.
3. ALL EXTERIOR LINTELS ARE TO BE GALVANIZED.
4. ALL EXTERIOR ANGLES TO BE LOCATED 1/2" BACK FROM FACE OF FINISHED WALL.
5. SEE STRUCTURAL DRAWINGS FOR ALL OPENINGS OVER 8'-4"

MASONRY OPENING	4" MASONRY	6" MASONRY	8" MASONRY	10" MASONRY	12" MASONRY
UP TO 5'-0"	1L - 3 1/2" X 3 1/2" X 5/16"	WT 7 X 11	2L - 4" X 3 1/2" X 5/16"	2L - 4" X 4" X 5/16"	2L- 5" X 5" X 5/16"
5'-0" TO 6'-0"	1L - 6" X 3 1/2" X 5/16"	WT 7 X 11	2L - 5" X 3 1/2" X 5/16"	2L - 4" X 4" X 3/8"	2L- 5" X 5" X 3/8"
6'-0" TO 7'-4"	1L - 6" X 3 1/2" X 5/16"	WT 7 X 11	2L - 5" X 3 1/2" X 5/16"	2L - 4" X 4" X 3/8"	2L- 5" X 5" X 3/8"
7'-4" TO 8'-4"	1L - 6" X 3 1/2" X 3/8"	WT 7 X 11	2L - 6" X 3 1/2" X 5/16"	2L - 4" X 4" X 3/8"	2L- 5" X 5" X 3/8"

2 LINTEL SCHEDULE

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





1 DOOR HEAD AND JAMB DETAILS

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

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CAPE FEAR COMMUNITY COLLEGE

PROJECT TITLE

RENOVATIONS OF GALEHOUSE (A BUILDING), MCLEOD (S BUILDING), AND NATURAL SCIENCES (N BUILDING)

411 N Front Street
Wilmington, NC 28401
SCO#17-18154-01A;NCCCS# 2352

SHEET TITLE

DOOR DETAILS

ISSUE BLOCK

Mark	Date	Description
B	09/03/2020	ADDENDUM #2
0	08/14/2020	ISSUED FOR BID

PROJECT NO: 2018023.00
DATE: 8/14/2020
SCALE: As indicated
DRAWN BY: VSC | PROJ MGR: DCW

A803

9/3/2020 8:53:46 PM 2018023x0 CFCC ASN BASE BID_detached.rvt

McFadyen Engineers, PLLC
4411 Peachtree Avenue Wilmington, NC 28403 Phone: 910.399.1125

PENTHOUSE ROOF

REMOVE EXISTING WIRING TROUGH

REMOVE EXISTING TRANSFORMER DISCONNECT SWITCH

REMOVE EXISTING ELEVATOR DISCONNECT SWITCH

REMOVE EXISTING XFMR "T-2G"

REMOVE EXISTING PANEL "2G" 3ø, 4W, 120/208V

EXISTING ELEVATOR CONTROLLER TO REMAIN

REMOVE EXISTING HVAC TROUGH ON ROOF AND ASSOCIATED CIRCUITS

REMOVE EXISTING HVAC TROUGH ON ROOF AND ASSOCIATED CIRCUITS

PENTHOUSE ROOF

REMOVE EXISTING PANEL "2H" 3ø, 4W, 120/208V

REMOVE EXISTING XFMR "T-2H"

MAIN ROOF

REMOVE EXISTING PANEL INTERIOR. EXISTING PANEL ENCLOSURE TO REMAIN AS PULL BOX

REMOVE EXISTING PANEL "2N" 3ø, 4W, 120/208V

REMOVE EXISTING XFMR "T-2N"

REMOVE EXISTING PANEL "4N" 3ø, 4W, 277/480V

REMOVE EXISTING DUCT HEATER DISCONNECT, TYPICAL FOR 3

REMOVE EXISTING WIRING TORUGH

REMOVE EXISTING PANEL INTERIOR. EXISTING PANEL ENCLOSURE TO REMAIN AS PULL BOX

REMOVE EXISTING PANEL "2A" 3ø, 4W, 120/208V

REMOVE EXISTING XFMR "T-2A"

REMOVE EXISTING PANEL "4A" 3ø, 4W, 277/480V

REMOVE EXISTING DUCT HEATER DISCONNECT, TYPICAL FOR 3

REMOVE EXISTING WIRING TORUGH

REMOVE EXISTING FEEDER, TYPICAL

FOURTH FLOOR

REMOVE EXISTING PANEL INTERIOR. EXISTING PANEL ENCLOSURE TO REMAIN AS PULL BOX

REMOVE EXISTING PANEL "#1" 3ø, 4W, 120/208V

REMOVE EXISTING XFMR "T-#1"

REMOVE EXISTING PANEL "4M" 3ø, 4W, 277/480V

REMOVE EXISTING DUCT HEATER DISCONNECT

REMOVE EXISTING WIRING TORUGH

REMOVE EXISTING PANEL INTERIOR. EXISTING PANEL ENCLOSURE TO REMAIN AS PULL BOX

REMOVE EXISTING PANEL "2B" 3ø, 4W, 120/208V

REMOVE EXISTING XFMR "T-2B"

REMOVE EXISTING PANEL "4B" 3ø, 4W, 277/480V

REMOVE EXISTING DUCT HEATER DISCONNECT, TYPICAL FOR 3

REMOVE EXISTING WIRING TORUGH

NOTE: SEE ABBREVIATED ELECTRICAL SCOPE OF WORK AND ELECTRICAL DISTRIBUTION SYSTEM NOTES SHEET E003.1

THIRD FLOOR

REMOVE EXISTING PANEL INTERIOR. EXISTING PANEL ENCLOSURE TO REMAIN AS PULL BOX

REMOVE EXISTING PANEL "B" 3ø, 4W, 120/208V

REMOVE EXISTING XFMR "T-B"

REMOVE EXISTING PANEL "4L" 3ø, 4W, 277/480V

REMOVE EXISTING WIRING TORUGH

REMOVE EXISTING DUCT HEATER DISCONNECT, TYPICAL FOR 3

EXISTING LIEBERT UNIT FEEDER

EXISTING 100A, 3P, 4W 120/208V ENCLOSED CIRCUIT BREAKER TO REMAIN

EXISTING 100A, 3P, 4W AUTOMATIC TRANSFER SWITCH TO REMAIN

EXISTING LIEBERT HVAC UNIT TO BE REMOVED

EXISTING PANEL "IT1" TO REMAIN

EXISTING PANEL "IT2" TO REMAIN

EXISTING PANEL "IT3" TO REMAIN

REMOVE EXISTING LOADCENTER "COMP" 1ø, 3W, 120/208V

REMOVE EXISTING PANEL INTERIOR. EXISTING PANEL ENCLOSURE TO REMAIN AS PULL BOX

REMOVE EXISTING PANEL "2C" 3ø, 4W, 120/208V

REMOVE EXISTING XFMR "T-2C"

REMOVE EXISTING PANEL "4C" 3ø, 4W, 277/480V

REMOVE EXISTING WIRING TORUGH

REMOVE EXISTING DUCT HEATER DISCONNECT, TYPICAL FOR 3

Ⓑ = EXISTING 1" C FOR CONTROLS CONTROLS

Ⓒ = EXISTING 3#12 & 1#12 EG – 3/4" C. FOR BATTERY CHARGER AND BLOCK HEATER

SECOND FLOOR

BASE BID – EXISTING 225A BUS PLUG TO REMAIN AND BE USED TO REFEED THE EXISTING BUSWAY FROM NEW PANEL "4MDP". FUSE WITH 225A RK-1

REMOVE EXISTING BUS PLUG, TYPICAL

EBP RMV

RMV EBP

RMV EBP

EBP

EBP

EBP

EBP

RMV EBP

BASE BID – EXISTING BUS PLUG AND FEEDER TO REMAIN
ALTERNATE 1 – REMOVE EXISTING BUS PLUG AND FEEDER

BASE BID – EXISTING SQUARE D I-LINE BUS DUCT. REMOVE "TEE" SECTION, BUS DUCT TO BOLT LOC SWITCH AND END CLOSURE. REINSTALL END CLOSURE ON REMAINING BUS DUCT END
ALTERNATE 1 – REMOVE EXISTING BUS DUCT

EXISTING BUSS "TEE "SECTION

REMOVE EXISTING EXTERIOR LIGHTING TIME SWITCHES

SEE SHEET E003.1 FOR CONTINUATION

EXISTING 60 KW, 208V E-G SET #1 TO REMAIN

EXISTING PANEL "EM" TO REMAIN

EXISTING 100A ATS DISCONNECT SWITCH TO REMAIN

EXIST. 100A 4P, 4W, AUTO TRANS. SWITCH TO REMAIN

EXISTING PANEL "4J-UPS" TO REMAIN

EXISTING MAINT. BYPASS "MBS" TO REMAIN

EXISTING UPS TO REMAIN

EXISTING XFMR "T-UPS" TO REMAIN

EXISTING PANEL "4J" TO REMAIN

EXISTING PANEL "2D" 3ø, 4W, 120/208V

EXISTING PANEL "4J" 3ø, 4W, 277/480V

BASE BID – PANEL "4I" AND "2D" AND ASSOCIATED BRANCH CIRCUITS TO REMAIN
ALTERNATE 1 – REMOVE PANEL "4I" AND "2D" INTERIOR. PANEL ENCLOSURES SHALL BE REUSED AS PULL BOXES

EXISTING XFMR "T-2D"

EXISTING PANEL "2E" 3ø, 4W, 120/208V

EXISTING XFMR "T-2E"

EXISTING PANEL "4H" 3ø, 4W, 277/480V

EXISTING PANEL "2F" 3ø, 4W, 120/208V

EXISTING XFMR "T-2F"

EXISTING PANEL "4G" 3ø, 4W, 277/480V

MEZZANINE

BASE BID – EXISTING PANELS "4H", "2E", "4G", "2F", TRANSFORMERS "T-2D", "T-2E" AND "T-2F" AND ASSOCIATED FEEDERS LOCATED ON MEZZANINE TO REMAIN
ALTERNATE 1 – REMOVE EXISTING PANELS "4H", "2E", "4G", "2F", TRANSFORMERS "T-2D", "T-2E" AND "T-2F" AND ASSOCIATED FEEDERS LOCATED ON MEZZANINE

REMOVE EXISTING PANEL INTERIOR. EXISTING PANEL ENCLOSURE TO REMAIN AS PULL BOX

REMOVE EXISTING PANEL "4E" 3ø, 4W, 277/480V

REMOVE EXISTING PANEL "4F" 3ø, 4W, 277/480V

REMOVE EXISTING BOLT LOC SWITCH "MBP" 3ø, 4W, 277/480V

REMOVE EXISTING XFMR. "T-EM LTS"

REMOVE EXISTING PANEL "EM LTS" 3ø, 4W, 120/208V

B

REMOVE EXISTING BUILDING "A" UNDERGROUND SECONDARY CONDUCTORS. EXISTING RACEWAYS TO REMAIN FOR REUSE

EXISTING UTILITY COMPANY PAD PAD MOUNTED TRANSFORMER TO REMAIN

EXISTING JUNCTION BOX TO REMAIN

FIRST FLOOR

REMOVE EXISTING UNDERGROUND SECONDARY CONDUCTORS AND SEAL CONDUIT AT FLOOR. COORDINATE WITH UTILITY COMPANY

EXISTING BUILDING "N" UNDERGROUND SECONDARY TO REMAIN

EXISTING UTILITY COMPANY UNDERGROUND PRIMARY TO REMAIN

1 - Building "A" Demolition Power Riser Diagram
Not to Scale

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NORTH CAROLINA PROFESSIONAL SEAL 8433 ENGINEER DUNCAN M. FADYEN 9/3/20

CAPE FEAR COMMUNITY COLLEGE

PROJECT TITLE

RENOVATIONS OF GALEHOUSE (A BUILDING), MCLEOD (S BUILDING), AND NATURAL SCIENCES (N BUILDING)

411 N Front Street
Wilmington, NC 28401
SCO#17-18154-01A;NCCCS# 2352

SHEET TITLE

BUILDING "A" DEMOLITION POWER RISER DIAGRAM

ISSUE BLOCK

Mark	Date	Description
B	9/03/2020	ADDENDUM #2
0	8/14/2020	ISSUED FOR BID

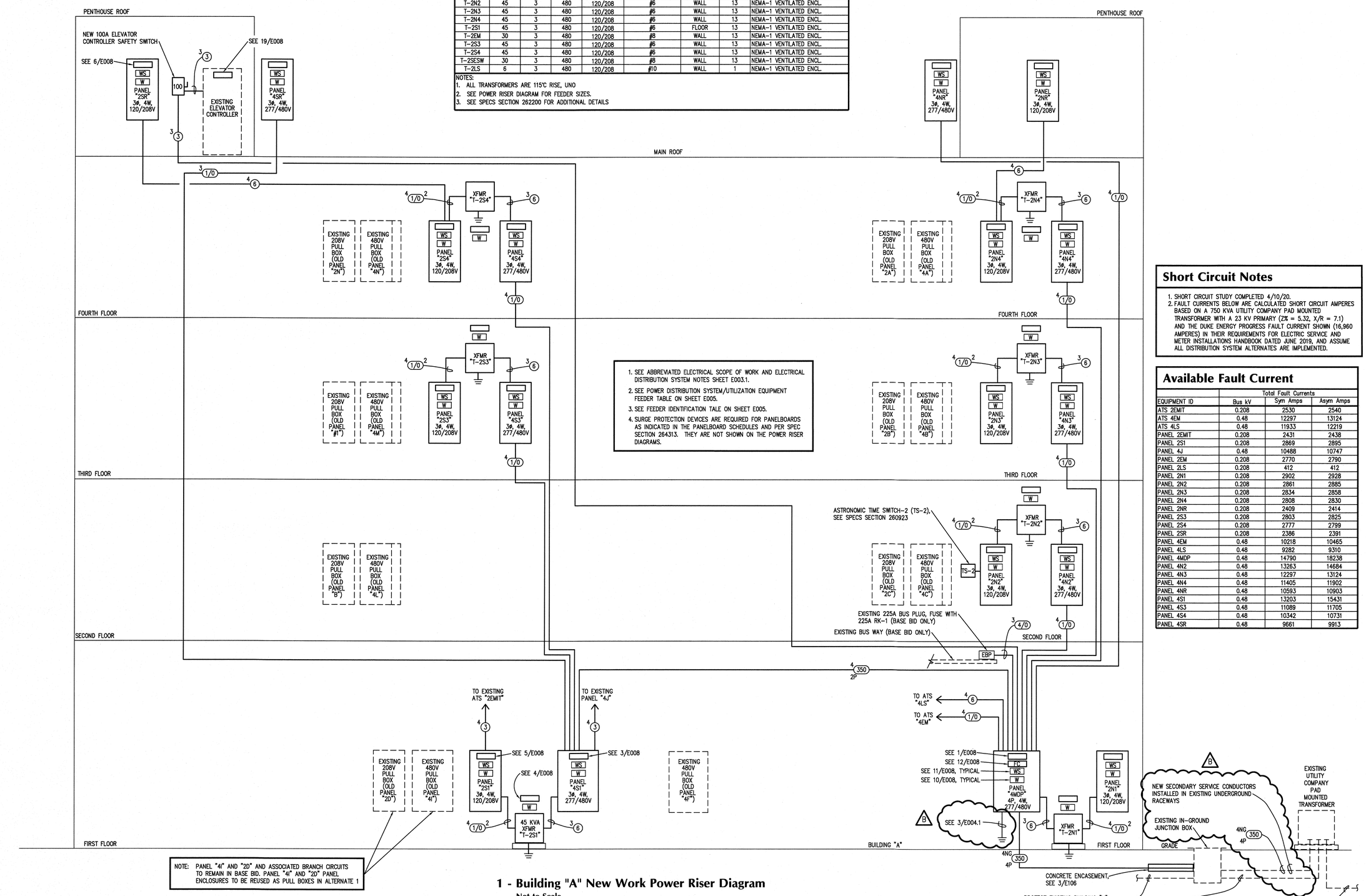
PROJECT NO:	2018023.00
DATE:	8/14/2020
SCALE:	As indicated
DRAWN BY: WPJ	PROJ MGR: RDM

E003

Dry Type Transformer Schedule

MARK	RATING (KVA)	PH	PRIMARY VOLTAGE (DELTA)	SECONDARY VOLTAGE (WYE)	GROUNDING ELECTRODE CONDX. (AWG)	MOUNTING	K RATING	REMARKS
T-2N1	45	3	480	120/208	#6	FLOOR	13	NEMA-1 VENTILATED ENCL.
T-2N2	45	3	480	120/208	#6	WALL	13	NEMA-1 VENTILATED ENCL.
T-2N3	45	3	480	120/208	#6	WALL	13	NEMA-1 VENTILATED ENCL.
T-2N4	45	3	480	120/208	#6	WALL	13	NEMA-1 VENTILATED ENCL.
T-2S1	45	3	480	120/208	#6	FLOOR	13	NEMA-1 VENTILATED ENCL.
T-2EM	30	3	480	120/208	#8	WALL	13	NEMA-1 VENTILATED ENCL.
T-2S3	45	3	480	120/208	#6	WALL	13	NEMA-1 VENTILATED ENCL.
T-2S4	45	3	480	120/208	#6	WALL	13	NEMA-1 VENTILATED ENCL.
T-2SESW	30	3	480	120/208	#8	WALL	13	NEMA-1 VENTILATED ENCL.
T-2LS	6	3	480	120/208	#10	WALL	1	NEMA-1 VENTILATED ENCL.

NOTES:
1. ALL TRANSFORMERS ARE 115°C RISE, UNO
2. SEE POWER RISER DIAGRAM FOR FEEDER SIZES.
3. SEE SPECS SECTION 262200 FOR ADDITIONAL DETAILS



1. SEE ABBREVIATED ELECTRICAL SCOPE OF WORK AND ELECTRICAL DISTRIBUTION SYSTEM NOTES SHEET E003.1.
2. SEE POWER DISTRIBUTION SYSTEM/UTILIZATION EQUIPMENT FEEDER TABLE ON SHEET E005.
3. SEE FEEDER IDENTIFICATION TALE ON SHEET E005.
4. SURGE PROTECTION DEVICES ARE REQUIRED FOR PANELBOARDS AS INDICATED IN THE PANELBOARD SCHEDULES AND PER SPEC SECTION 264313. THEY ARE NOT SHOWN ON THE POWER RISER DIAGRAMS.

NOTE: PANEL "4I" AND "2D" AND ASSOCIATED BRANCH CIRCUITS TO REMAIN IN BASE BID. PANEL "4I" AND "2D" PANEL ENCLOSURES TO BE REUSED AS PULL BOXES IN ALTERNATE 1

1 - Building "A" New Work Power Riser Diagram
Not to Scale

Short Circuit Notes

1. SHORT CIRCUIT STUDY COMPLETED 4/10/20.
2. FAULT CURRENTS BELOW ARE CALCULATED SHORT CIRCUIT AMPERES BASED ON A 750 KVA UTILITY COMPANY PAD MOUNTED TRANSFORMER WITH A 23 KV PRIMARY (Z% = 5.32, X/R = 7.1) AND THE DUKE ENERGY PROGRESS FAULT CURRENT SHOWN (16,960 AMPERES) IN THEIR REQUIREMENTS FOR ELECTRIC SERVICE AND METER INSTALLATIONS HANDBOOK DATED JUNE 2019, AND ASSUME ALL DISTRIBUTION SYSTEM ALTERNATES ARE IMPLEMENTED.

Available Fault Current

	Total Fault Currents		
EQUIPMENT ID	Bus kV	Sym Amps	Asym Amps
ATS 2EMIT	0.208	2530	2540
ATS 4EM	0.48	12297	13124
ATS 4LS	0.48	11933	12219
PANEL 2EMIT	0.208	2431	2438
PANEL 2S1	0.208	2869	2895
PANEL 4J	0.48	10488	10747
PANEL 2EM	0.208	2770	2790
PANEL 2LS	0.208	412	412
PANEL 2N1	0.208	2902	2928
PANEL 2N2	0.208	2861	2885
PANEL 2N3	0.208	2834	2858
PANEL 2N4	0.208	2808	2830
PANEL 2NR	0.208	2409	2414
PANEL 2S3	0.208	2803	2825
PANEL 2S4	0.208	2777	2799
PANEL 2SR	0.208	2386	2391
PANEL 4EM	0.48	10218	10465
PANEL 4LS	0.48	9282	9310
PANEL 4MDP	0.48	14790	18238
PANEL 4N2	0.48	13263	14684
PANEL 4N3	0.48	12297	13124
PANEL 4N4	0.48	11405	11902
PANEL 4NR	0.48	10593	10903
PANEL 4S1	0.48	13203	15431
PANEL 4S3	0.48	11089	11705
PANEL 4S4	0.48	10342	10731
PANEL 4SR	0.48	9661	9913

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NORTH CAROLINA PROFESSIONAL SEAL 8433 ENGINEER RYAN DUNCAN MCFADYEN
4.3.20

CAPE FEAR COMMUNITY COLLEGE

PROJECT TITLE

RENOVATIONS OF GALEHOUSE (A BUILDING), MCLEOD (S BUILDING), AND NATURAL SCIENCES (N BUILDING)

411 N Front Street
Wilmington, NC 28401
SCO#17-18154-01A;NCCCS# 2352

SHEET TITLE

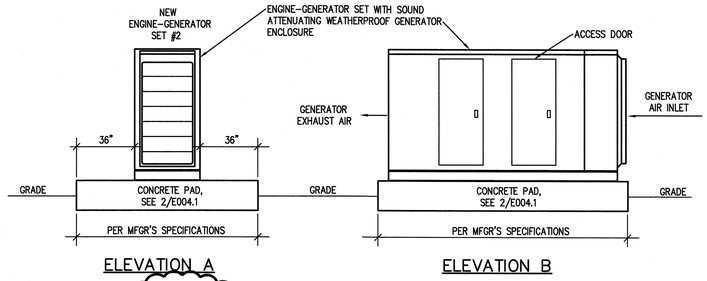
BUILDING "A" NEW WORK POWER RISER DIAGRAM, SCHEDULES AND NOTES

ISSUE BLOCK

Mark	Date	Description
B	9/03/2020	ADDENDUM #2
0	8/14/2020	ISSUED FOR BID

PROJECT NO: 2018023.00
DATE: 8/14/2020
SCALE: As indicated
DRAWN BY: WPJ PROJ MGR: RDM

E004



3 - Engine Generator Details

Not to Scale

ENGINE-GENERATORS LOAD SUMMARIES

EXISTING ENGINE-GENERATOR #1 LOAD SUMMARY

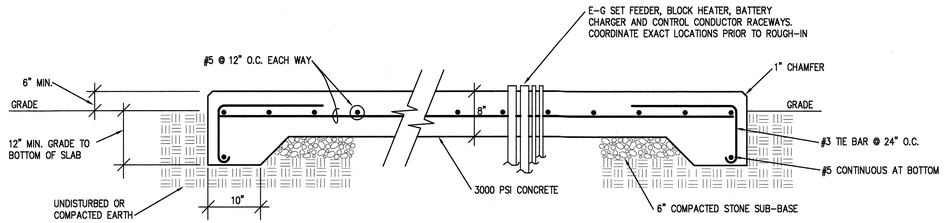
LOAD	PHASE A (VA)	PHASE B (VA)	PHASE C (VA)
EXISTING LOADS			
UPS	8,000	8,000	8,000
SUMP PUMPS (2 – 1/2 HP, 120V)	1,127	1,127	
PANEL 2EMIT CONNECTED LOAD (VA)	3,639	3,639	4,107
TOTAL E-G #2 CONNECTED LOAD (VA) / PHASE	12,766	12,766	12,107
TOTAL E-G #2 CONNECTED LOAD (VA)	37,639		

EXISTING E-G #1 RATING IS 60 KW / 75 KVA.

ENGINE-GENERATOR #2 LOAD SUMMARY

LOAD	PHASE A (VA)	PHASE B (VA)	PHASE C (VA)
PANEL 4EM CONNECTED LOAD (VA)	29,807	27,598	28,232
PANEL 4EM DEMAND (VA)	25,800	25,800	25,800
PANEL 4LS CONNECTED LOAD (VA)	3,904	4,494	4,496
PANEL 4LS DEMAND (VA)	5,106	5,106	5,106
TOTAL E-G #2 DEMAND LOAD (VA) / PHASE	30,906	30,906	30,906
TOTAL E-G #2 DEMAND LOAD (VA)	92,718		

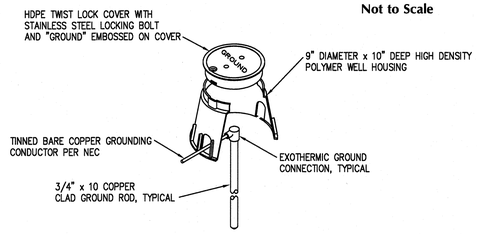
NOTES:
1. E-G SET #2 SPECIFIED MINIMUM RATING IS 100 KW / 125 KVA.
2. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DISTRIBUTION EQUIPMENT, OCPD AND CONDUCTORS/RACEWAYS RATING REVISIONS IF A LARGER CAPACITY GEN SET IS PROVIDED. REQUIRED REVISIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER OF RECORD.
3. REFER TO SPEC SECTION 263313, PARA. 2.4 FOR REQUIRED RATINGS AND MAXIMUM VOLTAGE DIP WITH ALL CONNECTED LOADS.



NOTE: FIELD VERIFY EXACT PAD SIZE REQUIREMENTS AND RACEWAY STUB-UP LOCATIONS WITH ENGINE-GENERATOR VENDOR AND ENGINEER PRIOR TO POURING OF PAD

2 - Engine Generator Concrete Pad Detail

Not to Scale

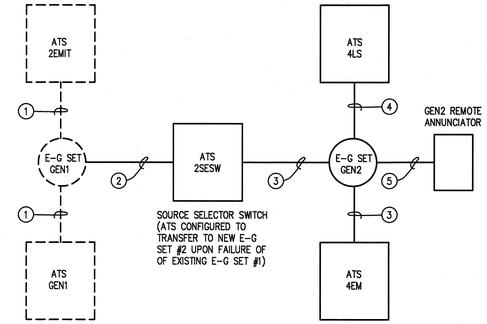


SEE SPECS. SECTION 260526

4 - Grounding Inspection Well Detail

NOT TO SCALE

1. REDUNDANT SERVER ROOM HVAC SYSTEMS ARE FED FROM SEPARATE ELECTRICAL SOURCES (VIA ATS 2EMIT & E-G SET #1, AND ATS 4EM & E-G SET #2) FOR POWER REDUNDANCY.
2. THE EXISTING SERVER ROOM UPS IS FED FROM TWO ENGINE-GENERATOR SETS VIA THE AUTOMATIC EM SOURCE SELECTOR SWITCH ATS 2SESW TO PROVIDE REDUNDANT GENERATOR POWER.
3. SEE GENERATORS CONTROL BLOCK DIAGRAM SHEET E004.1.
4. SEE ABBREVIATED ELECTRICAL SCOPE OF WORK AND ELECTRICAL DISTRIBUTION SYSTEM NOTES SHEET E003.1.
5. SEE POWER DISTRIBUTION SYSTEM/UTILIZATION EQUIPMENT FEEDER TABLE ON SHEET E005.
6. SEE FEEDER IDENTIFICATION TALE ON SHEET E005.
7. SURGE PROTECTION DEVICES ARE REQUIRED FOR PANELBOARDS AS INDICATED IN THE PANELBOARD SCHEDULES AND PER SPEC SECTION 264313. THEY ARE NOT SHOWN ON THE POWER RISER DIAGRAMS.

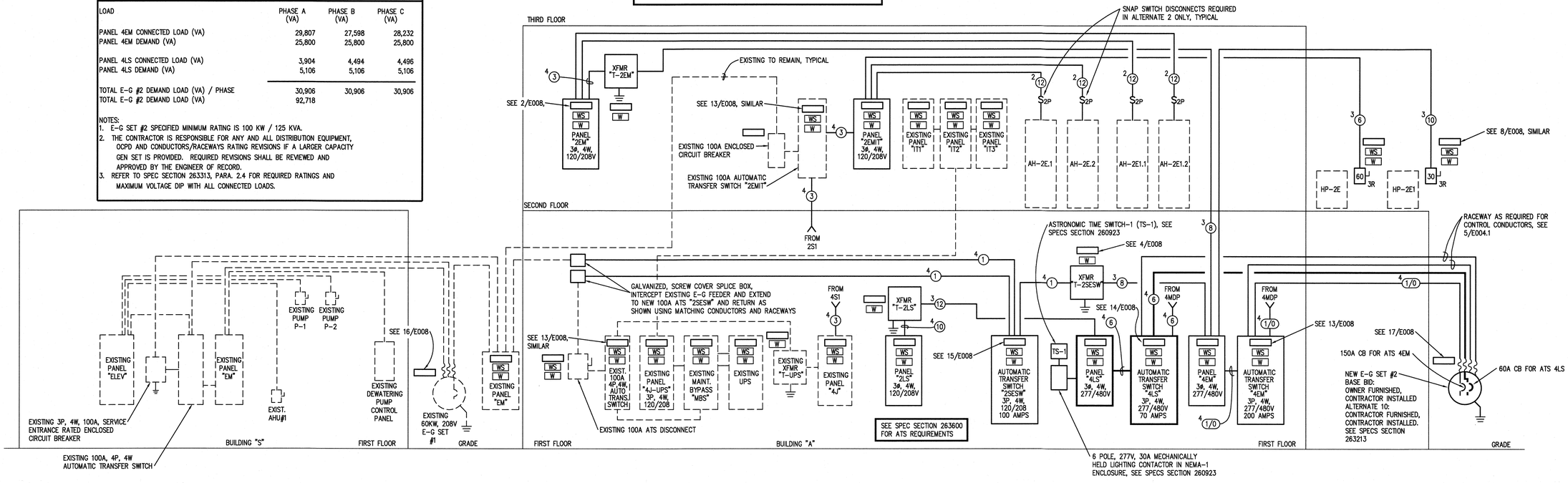


1. EXISTING GEN1 START-STOP, COMMUNICATIONS AND CONTROL CABLES
2. GEN1 START-STOP, COMMUNICATIONS/CONTROL CABLES AND CONDUCTORS, AND ADDITIONAL CONDUCTORS AS REQUIRED BY GEN SET AND ATS MANUFACTURERS RECOMMENDATIONS IN 1 1/2" MINIMUM C.
3. GEN2 START-STOP, COMMUNICATIONS/CONTROL CABLES AND CONDUCTORS, AND ADDITIONAL CONDUCTORS AS REQUIRED BY GEN SET AND ATS MANUFACTURERS RECOMMENDATIONS IN 1 1/2" MINIMUM C.
4. GEN2 START-STOP, COMMUNICATIONS/CONTROL CABLES AND CONDUCTORS, AND ADDITIONAL CONDUCTORS AS REQUIRED BY GEN SET AND ATS MANUFACTURERS RECOMMENDATIONS IN 1 1/2" MINIMUM C.
5. GEN2 REMOTE ANUNCIATOR CABLE AND CONDUCTORS, SIZE AND QUANTITY AS REQUIRED IN 1" MINIMUM C.

SOURCE SELECTOR SWITCH (ATS CONFIGURED TO TRANSFER TO NEW E-G SET #2 UPON FAILURE OF OF EXISTING E-G SET #1)

5 - Generators Control Block Diagram

NOT TO SCALE



1 - Building "A" New Work Emergency Power Riser Diagram

Not to Scale

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NORTH CAROLINA PROFESSIONAL SEAL 8433 ENGINEER RYAN D. MCFADYEN 9.3.20

CAPE FEAR COMMUNITY COLLEGE

PROJECT TITLE

RENOVATIONS OF GALEHOUSE (A BUILDING), MCLEOD (S BUILDING), AND NATURAL SCIENCES (N BUILDING)

411 N Front Street
Wilmington, NC 28401
SCO#17-18154-01A;NCCCS# 2352

SHEET TITLE

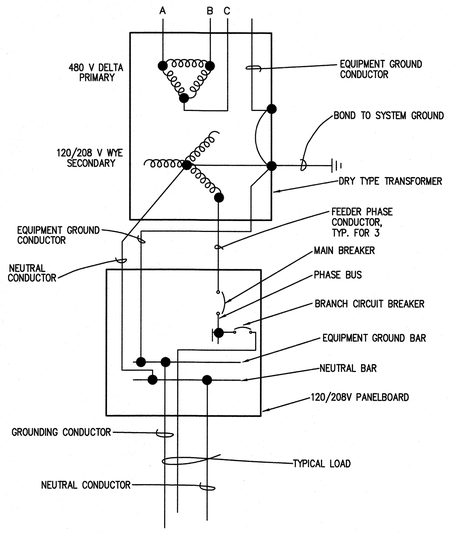
BUILDING "A" NEW WORK EMERGENCY POWER RISER DIAGRAM AND ENGINE-GENERATOR DETAILS

ISSUE BLOCK

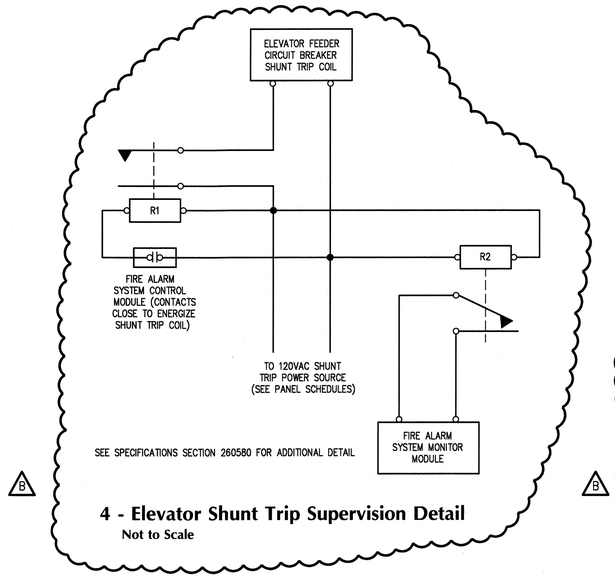
Mark	Date	Description
B	9/03/2020	ADDENDUM #2
0	8/14/2020	ISSUED FOR BID

PROJECT NO: 2018023.00
DATE: 8/14/2020
SCALE: As indicated
DRAWN BY: WPJ | PROJ MGR: RDM

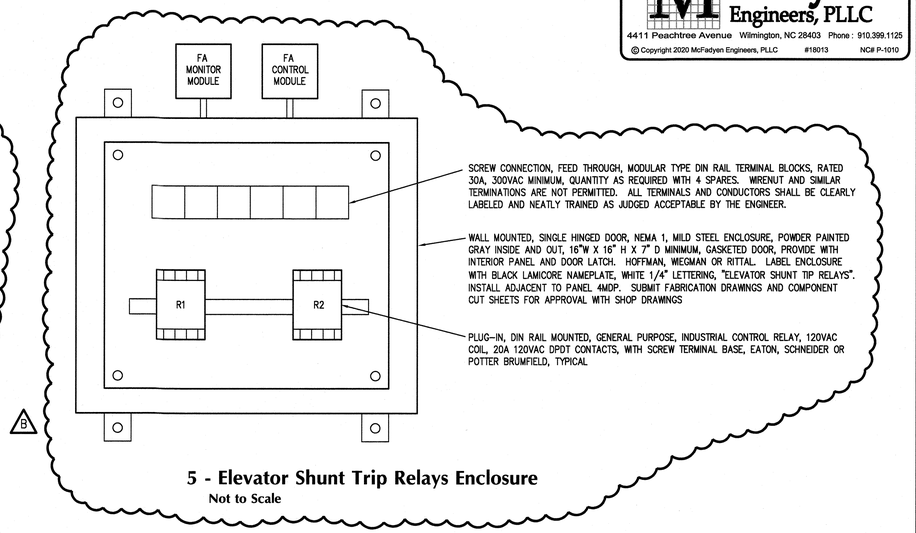
E004.1



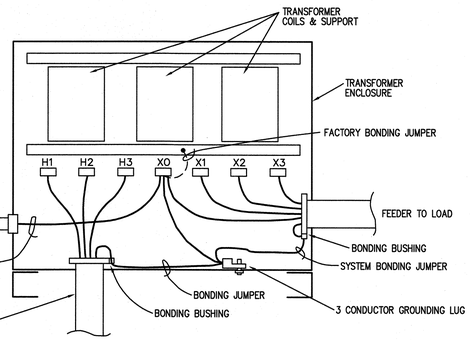
3 - Transformer Grounding System Detail
Not to Scale



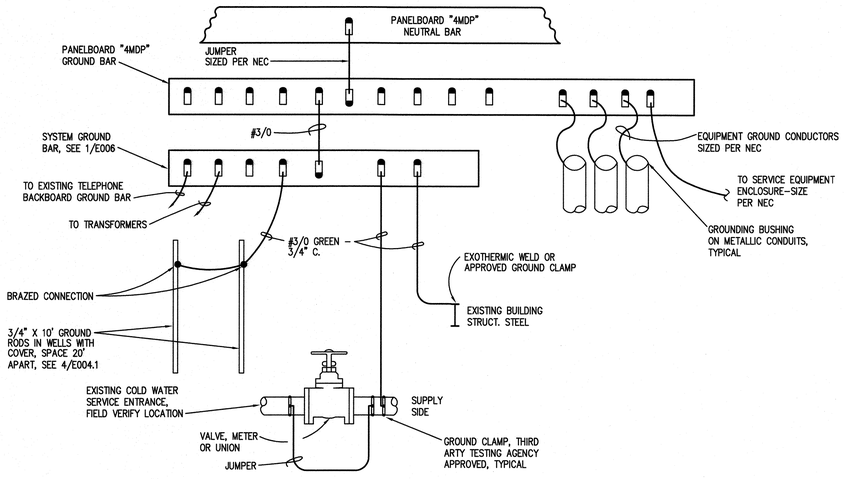
4 - Elevator Shunt Trip Supervision Detail
Not to Scale



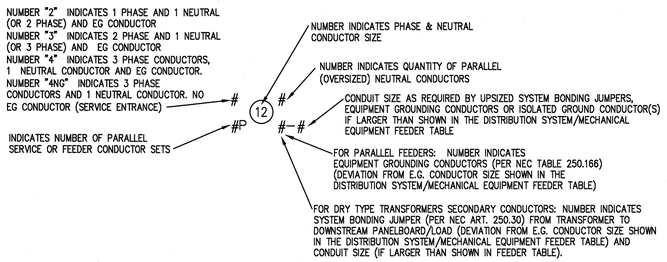
5 - Elevator Shunt Trip Relays Enclosure
Not to Scale



2 - Dry Type Transformer Bonding Detail
Not to Scale



1 - Service Grounding System Detail
Not to Scale



6 - Conductors Identification Detail
Not to Scale

MINIMUM CONDUCTORS SIZE CHART

PROVIDE THE FOLLOWING MINIMUM SIZES FOR BRANCH CIRCUIT CONDUCTORS:

SINGLE PHASE CIRCUITS

CONDUCTOR SIZE (AWG)	BRANCH CIRCUIT BREAKER TRIP (AMPERES)	CIRCUIT VOLTAGE MAXIMUM ALLOWABLE CIRCUIT LENGTH (FEET)			
		120	208	240	277
#12	15	81	141	163	188
#10	15	135	234	270	312
#8	15	204	355	409	473
#12	20	61	106	122	141
#10	20	101	175	202	233
#8	20	153	266	307	354
#10	30	67	117	135	155
#8	30	102	177	204	236

THREE PHASE CIRCUITS

CONDUCTOR SIZE (AWG)	BRANCH CIRCUIT BREAKER TRIP (AMPERES)	CIRCUIT VOLTAGE MAXIMUM ALLOWABLE CIRCUIT LENGTH (FEET)		
		208	240	480
#12	15	163	188	377
#10	15	270	312	624
#12	20	122	141	283
#10	20	202	234	468
#10	30	135	156	312
#8	30	205	236	473
#8	40	153	177	354
#6	40	239	276	553
#8	50	123	142	283
#6	50	191	221	442
#6	60	159	184	368
#4	60	245	283	567

NOTES:
1. CONDUCTOR LENGTHS ARE BASED ON SINGLE & THREE PHASE, 90% POWER FACTOR LOADS USING 75°C COPPER CONDUCTORS IN EMT RACEWAYS TO ACHIEVE NO MORE THAN 3 PERCENT VOLTAGE DROP.
2. CALCULATIONS ASSUME LOADS OF 80% OF CIRCUIT BREAKER TRIP (12A, 16A & 24A, 32A, 40A & 48A, RESPECTIVELY) ARE CONCENTRATED AT THE END OF THE CIRCUITS.
3. IF LOAD CHARACTERISTICS DIFFER FROM ABOVE, CALCULATE USING KNOWN CHARACTERISTICS AND SUBMIT CALCULATIONS TO THE ARCHITECT/ENGINEER DOCUMENTING 3% OR LESS VOLTAGE DROP UNDER THE ACTUAL LOAD CONDITIONS.
4. WHEN A DEDICATED SINGLE LOAD LESS THAN NOTED ABOVE IS KNOWN, THE CONTRACTOR MAY UTILIZE SMALLER CONDUCTORS UPON SUBMISSION OF VOLTAGE DROP CALCULATIONS DOCUMENTING 3% OR LESS VOLTAGE DROP. THE MINIMUM LOAD SHALL BE ASSUMED TO BE 60% OF THE CB TRIP RATING REGARDLESS OF ACTUAL DEDICATED LOAD.
5. USE THE LARGER OF THE CONDUCTORS INDICATED ON THE DRAWINGS OR THIS TABLE.

Power Distribution System/Utilization Equipment Conductors Identification Table

ID#	MAX OCP	CONDUCTORS	CONDUIT SIZE
2 (12)	20	2#12 & 1#12 EG	1/2"
3 (12)	20	3#12 & 1#12 EG	1/2"
4 (12)	20	4#12 & 1#12 EG	1/2"
2 (10)	30	2#10 & 1#10 EG	1/2"
3 (10)	30	3#10 & 1#10 EG	1/2"
4 (10)	30	4#10 & 1#10 EG	1/2"
2 (8)	50	2#8 & 1#10 EG	1/2"
3 (8)	50	3#8 & 1#10 EG	3/4"
4 (8)	50	4#8 & 1#10 EG	1"
2 (6)	70	2#6 & 1#8 EG	1"
3 (6)	70	3#6 & 1#8 EG	1"
4 (6)	70	4#6 & 1#8 EG	1"
2 (4)	90	2#4 & 1#8 EG	1"
3 (4)	90	3#4 & 1#8 EG	1"
4 (4)	90	4#4 & 1#8 EG	1 1/4"
2 (3)	100	2#3 & 1#8 EG	1 1/4"
3 (3)	100	3#3 & 1#8 EG	1 1/4"
4 (3)	100	4#3 & 1#8 EG	1 1/4"
2 (2)	115	2#2 & 1#6 EG	1 1/4"
3 (2)	115	3#2 & 1#6 EG	1 1/4"
4 (2)	115	4#2 & 1#6 EG	1 1/4"
2 (1)	125	2#1 & 1#6 EG	1 1/4"
3 (1)	125	3#1 & 1#6 EG	1 1/4"
4 (1)	125	4#1 & 1#6 EG	1 1/2"
3 (1/0)	150	3#1/0 & 1#6 EG	1 1/2"
4 (1/0)	150	4#1/0 & 1#6 EG	2"
3 (2/0)	175	3#2/0 & 1#6 EG	2"
4 (2/0)	175	4#2/0 & 1#6 EG	2"
3 (3/0)	200	3#3/0 & 1#6 EG	2"
4 (3/0)	200	4#3/0 & 1#6 EG	2"
3 (4/0)	225	3#4/0 & 1#4 EG	2"
4 (4/0)	225	4#4/0 & 1#4 EG	2 1/2"
3 (250)	250	3#250 KCMIL & 1#4 EG	2 1/2"
4 (250)	250	4#250 KCMIL & 1#4 EG	2 1/2"
3 (300)	300	3#300 KCMIL & 1#4 EG	2 1/2"
4 (300)	300	4#300 KCMIL & 1#4 EG	3"
3 (350)	300	3#350 KCMIL & 1#3 EG	2 1/2"
4 (350)	300	4#350 KCMIL & 1#3 EG	3"
3 (400)	350	3#400 & 1#3 EG	2 1/2"
4 (400)	350	4#400 & 1#3 EG	3"
3 (500)	400	3#500 KCMIL & 1#3 EG	3"
4 (500)	400	4#500 KCMIL & 1#3 EG	3 1/2"

1. TABLE IS FOR THHN/THWN INSULATED COPPER CONDUCTORS USING 75°C RATING IN EMT ONLY. OTHER INSULATION AND RACEWAY TYPES MAY REQUIRE LARGER RACEWAYS AND ARE THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE CODE COMPLIANCE AND DESIGN INTENT.
2. SOME DRY TYPE TRANSFORMER SECONDARY CONDUCTORS AND PARALLEL CONDUCTORS REQUIRE UPSIZED BONDING JUMPERS, UPSIZED EQUIPMENT GROUND CONDUCTORS AND LARGER RACEWAYS THAN SHOWN IN THIS TABLE. SEE CONDUCTORS IDENTIFICATION DETAIL.
3. OVERSIZED AND PARALLELED NEUTRAL CONDUCTORS MAY ALSO REQUIRE LARGER RACEWAYS THAN INDICATED. SEE CONDUCTORS IDENTIFICATION DETAIL.
4. CONDUIT SIZING IS CODE MINIMUM. LARGER SIZES MAY BE REQUIRED.
5. REFER TO THE CONDUCTORS IDENTIFICATION DETAIL FOR ADDITIONAL INFORMATION.
6. MAX OCP = MAXIMUM OCP DEVICE DESIGN AMPACITY.

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NORTH CAROLINA PROFESSIONAL SEAL 8433 ENGINEER JOSEPH MCFADYEN
9.3.20

CAPE FEAR COMMUNITY COLLEGE

PROJECT TITLE

RENOVATIONS OF GALEHOUSE (A BUILDING), MCLEOD (S BUILDING), AND NATURAL SCIENCES (N BUILDING)

411 N Front Street
Wilmington, NC 28401
SCO#17-18154-01A;NCCCS# 2352

SHEET TITLE

ELECTRICAL DETAILS

ISSUE BLOCK

Mark	Date	Description
B	9/03/2020	ADDENDUM #2
0	8/14/2020	ISSUED FOR BID

PROJECT NO: 2018023.00
DATE: 8/14/2020
SCALE: As indicated
DRAWN BY: WPJ PROJ MGR: RDM

E005

Panel "2N1"

TYPE: 208 | 120 | VOLTS, 3 | PHASE, 4 | WIRE — PROVIDE IF CHECKED: XX | EQUIPMENT GROUND BUS
BOLT-ON — MOUNT: SURFACE — XX | 200 % NEUTRAL BUS
HINGED TRIM — FEED: BOTTOM — | ULSE LABEL
NEMA – 1 ENCLOSURE — | ISOLATED GROUND BAR

LOAD SERVED	LOAD VA	CKT BKR POLES/TRIP	CKT #	LOAD VA A	LOAD VA B	LOAD VA C	CKT #	CKT BKR POLES/TRIP	LOAD VA	LOAD SERVED
RECEPTACLES 113	500	1/20	1	2,084			2	1/20	1,384	RECEPTACLES 115,115, PV03,PV04
RECEPTACLES 113	500	1/20	3		1,100		4	1/20	600	EWC 114
RECEPTACLES 113	500	1/20	5			1,220	6	1/20	220	RECEPTACLES 109,116
RECEPTACLES 113	500	1/20	7	700			8	1/20	200	HW CIRC PUMP CP2
RECEPTACLES 113	500	1/20	9		700		10	1/20	200	ELEVATOR SHUNT TRIP POWER
RECEPTACLES 113	500	1/20	11			500	12	1/20		SPARE
RECEPTACLES 113	500	1/20	13	500			14	1/20		SPARE
RECEPTACLES 113	500	1/20	15		500		16	1/20		SPARE
RECEPTACLES 113	500	1/20	17			1,000	18	1/20	500	HVAC CONTROL POWER
CORD REEL 113	500	1/20	19	1,000			20	1/20	500	HVAC CONTROL POWER
CORD REEL 113	500	1/20	21		1,000		22	1/20	500	HVAC CONTROL POWER
CORD REEL 113	500	1/20	23			860	24	1/20	360	TELECOMMUNICATION BACKBOARD #1 118
CORD REEL 113	500	1/20	25	1,000			26	1/20	500	ANTI-CONDENSATION HEATER
SPARE		1/20	27		200		28	1/20	200	GEN #2 BATTERY CHARGER (NOTE 2)
SPARE		1/20	29			1,500	30	2/15	1,500	GEN #2 BLOCK HEATER (NOTE 2)
			31	1,500			32		1,500	
SPARE		3/30	33				34	3/30		SPARE
			35				36			
			37				38			
SPARE		3/70	39				40	3/70		SPARE
			41				42			
				6,784	3,500	5,080	TOTAL VA		225	A. BUS (COPPER, UNO)
				57	29	42	TOTAL AMPERES		150	A. MAIN CIRCUIT BREAKER
				44%	23%	33%	PHASE BALANCE			
									10	KAIC MINIMUM RATING

NOTES:
1. COORDINATE CIRCUIT BREAKER TRIP WITH EQUIPMENT.
2. PROVIDE CIRCUIT BREAKER LOCKING DEVICE

DEMAND SUMMARY:	CONN. (VA)	DEMAND FACTOR	DEMAND (VA)	NOTES
R: TOTAL RECEPTACLES (VA) = 8,804				
RECEPTACLES FIRST 10 KVA	8,804	1.00	8,804	
RECEPTACLES > 10 KVA		0.50		
L: LIGHTING		1.25		
M: MISCELLANEOUS EQUIPMENT	6,360	1.00	6,360	
O: OTHER EQUIPMENT		1.00		
B: LARGEST MOTOR		1.25		
H: HVAC EQUIPMENT (FLA = MCA X 0.8)		1.00		
K: KITCHEN EQUIPMENT		1.00		DEMAND FACTOR PER NEC TABLE 220.56
TOTAL CONNECTED (VA)	15,164			
TOTAL DEMAND (VA)			15,164	
TOTAL DEMAND (AMPERES)			42.1	
PANEL DEMAND LOADING VS RATING		28.1%		

Panel "2N2"

TYPE: 208 | 120 | VOLTS, 3 | PHASE, 4 | WIRE — PROVIDE IF CHECKED: XX | EQUIPMENT GROUND BUS
BOLT-ON — MOUNT: SURFACE — XX | 200 % NEUTRAL BUS
HINGED TRIM — FEED: BOTTOM — | ULSE LABEL
NEMA – 1 ENCLOSURE — | ISOLATED GROUND BAR

LOAD SERVED	LOAD VA	CKT BKR POLES/TRIP	CKT #	LOAD VA A	LOAD VA B	LOAD VA C	CKT #	CKT BKR POLES/TRIP	LOAD VA	LOAD SERVED
RECEPTACLE 233	180	1/20	1	1,440			2	1/20	1,260	RECEPTACLES 220,220A,220B,220C,2200,221,222
EXTERIOR POLE LIGHT RECPTACLES THRU TS-2	900	1/20	3		1,980		4	1/20	1,080	RECEPTACLES 220,220A,220B,220C,2200,221,222
SPARE		1/20	5			600	6	1/20	600	EWC 211
SPARE		1/20	7	1,000			8	1/20	1,000	VENDING MACHINE 200
SPARE		1/20	9		1,000		10	1/20	1,000	VENDING MACHINE 200
SPARE		1/20	11			1,000	12	1/20	1,000	VENDING MACHINE 200
SPARE		1/20	13	1,332			14	1/20	1,332	RECEPTACLES 227,228,229,230,231,232,233, PV12
SPARE		1/20	15		1,260		16	1/20	1,260	RECEPTACLES 227,228,229,230,231,232,233
SPARE		1/20	17			500	18	1/20	500	HVAC CONTROL POWER
SPARE		1/20	19	500			20	1/20	500	HVAC CONTROL POWER
SPARE		1/20	21		500		22	1/20	500	HVAC CONTROL POWER
SPARE		1/20	23			224	24	2/20	224	BC-2N.1 & CASSETTES
SPARE		1/20	25	224			26		224	
SPARE		1/20	27		166		28	2/20	166	BC-2N.2 & CASSETTES
SPARE		1/20	29			166	30		166	
			31				32			
SPARE		3/30	33				34	3/30		SPARE
			35				36			
			37				38			
SPARE		3/70	39				40	3/70		SPARE
			41				42			
				4,496	4,906	2,489	TOTAL VA		225	A. BUS (COPPER, UNO)
				37	41	21	TOTAL AMPERES		150	A. MAIN CIRCUIT BREAKER
				38%	41%	21%	PHASE BALANCE			
									10	KAIC MINIMUM RATING

NOTES:
1. COORDINATE CIRCUIT BREAKER TRIP WITH EQUIPMENT.

DEMAND SUMMARY:	CONN. (VA)	DEMAND FACTOR	DEMAND (VA)	NOTES
R: TOTAL RECEPTACLES (VA) = 6,012				
RECEPTACLES FIRST 10 KVA	6,012	1.00	6,012	
RECEPTACLES > 10 KVA		0.50		
L: LIGHTING		1.25		
M: MISCELLANEOUS EQUIPMENT	5,100	1.00	5,100	
O: OTHER EQUIPMENT		1.00		
B: LARGEST MOTOR		1.25		
H: HVAC EQUIPMENT (FLA = MCA X 0.8)	779	1.00	779	
K: KITCHEN EQUIPMENT		1.00		DEMAND FACTOR PER NEC TABLE 220.56
TOTAL CONNECTED (VA)	11,891			
TOTAL DEMAND (VA)			11,891	
TOTAL DEMAND (AMPERES)			33.0	
PANEL DEMAND LOADING VS RATING		22.0%		

Panel "2LS"

TYPE: 208 | 120 | VOLTS, 3 | PHASE, 4 | WIRE — PROVIDE IF CHECKED: XX | EQUIPMENT GROUND BUS
BOLT-ON — MOUNT: SURFACE — XX | 100 % NEUTRAL BUS
HINGED TRIM — FEED: BOTTOM — | ULSE LABEL
NEMA – 1 ENCLOSURE — | ISOLATED GROUND BAR

LOAD SERVED	LOAD VA	CKT BKR POLES/TRIP	CKT #	LOAD VA A	LOAD VA B	LOAD VA C	CKT #	CKT BKR POLES/TRIP	LOAD VA	LOAD SERVED
FIRE ALARM CONTROL PANEL	500	1/20	1	500			2	1/20		SPARE
NAC POWER SUPPLY FIRST FLOOR	200	1/20	3		400		4	1/20	200	ELEVATOR CAB LIGHTS
NAC POWER SUPPLY SECOND FLOOR	200	1/20	5			1,200	6	1/20	1,000	GEN #2 HOUSING
NAC POWER SUPPLY THIRD FLOOR	200	1/20	7	400			8	1/20	200	GEN #2 HOUSING LIGHTING
NAC POWER SUPPLY FOURTH FLOOR	200	1/20	9		200		10	1/20		SPARE
SPARE		1/20	11				12	1/20		SPARE
SPARE		1/20	13				14	1/20		SPARE
SPARE		1/20	15				16	1/20		SPARE
SPARE		1/20	17				18	1/20		SPARE
				900	600	1,200	TOTAL VA		60	A. BUS (COPPER, UNO)
				8	5	10	TOTAL AMPERES		30	A. MAIN CIRCUIT BREAKER
				33%	22%	44%	PHASE BALANCE			
									10	KAIC MINIMUM RATING

NOTES:
1. PROVIDE CIRCUIT BREAKER HANDLE LOCKS FOR ALL CIRCUIT BREAKERS.
2. QUANTITY OF NAC POWER SUPPLIES IS ESTIMATED. USE SPARE CIRCUIT BREAKERS IF ADDITIONAL LOADS ARE REQUIRED.

DEMAND SUMMARY:	CONN. (VA)	DEMAND FACTOR	DEMAND (VA)	NOTES
R: TOTAL RECEPTACLES (VA) = 1,000				
RECEPTACLES FIRST 10 KVA	1,000	1.00	1,000	
RECEPTACLES > 10 KVA		0.50		
L: LIGHTING	400	1.25	500	
M: MISCELLANEOUS EQUIPMENT	1,300	1.00	1,300	
O: OTHER EQUIPMENT		1.00		
B: LARGEST MOTOR		1.25		
H: HVAC EQUIPMENT (FLA = MCA X 0.8)		1.00		
K: KITCHEN EQUIPMENT		1.00		DEMAND FACTOR PER NEC TABLE 220.56
TOTAL CONNECTED (VA)	2,700			
TOTAL DEMAND (VA)			2,800	
TOTAL DEMAND (AMPERES)			7.8	
PANEL DEMAND LOADING VS RATING		25.9%		

Panel "2N3"

TYPE: 208 | 120 | VOLTS, 3 | PHASE, 4 | WIRE — PROVIDE IF CHECKED: XX | EQUIPMENT GROUND BUS
BOLT-ON — MOUNT: SURFACE — XX | 200 % NEUTRAL BUS
HINGED TRIM — FEED: BOTTOM — | ULSE LABEL
NEMA – 1 ENCLOSURE — | ISOLATED GROUND BAR

LOAD SERVED	LOAD VA	CKT BKR POLES/TRIP	CKT #	LOAD VA A	LOAD VA B	LOAD VA C	CKT #	CKT BKR POLES/TRIP	LOAD VA	LOAD SERVED
EXISTING CLASSROOM RECEPTACLES	1,000	1/20	1	2,080			2	1/20	1,080	RECEPTACLES 311,311A,311B,311C,311D
EXISTING CLASSROOM RECEPTACLES	1,000	1/20	3		2,080		4	1/20	1,080	RECEPTACLES 311,311A,311B,311C,311D
EXISTING CLASSROOM RECEPTACLES	1,000	1/20	5			1,540	6	1/20	540	RECEPTACLES 310
EXISTING CLASSROOM RECEPTACLES	1,000	1/20	7	1,540			8	1/20	540	RECEPTACLES 309
EXISTING CLASSROOM O/H PROJECTOR	1,000	1/20	9		1,540		10	1/20	540	RECEPTACLES 316
EXISTING CLASSROOM O/H PROJECTOR	1,000	1/20	11			1,540	12	1/20	540	RECEPTACLES 317
EXISTING CLASSROOM O/H PROJECTOR	1,000	1/20	13	1,600			14	1/20	600	EWC 300
EXISTING CLASSROOM O/H PROJECTOR	1,000	1/20	15		1,000		16	1/20		SPARE
SPARE		1/20	17			500	18	1/20	500	HVAC CONTROL POWER
SPARE		1/20	19	500			20	1/20	500	HVAC CONTROL POWER
SPARE		1/20	21		500		22	1/20	500	HVAC CONTROL POWER
SPARE		1/20	23			495	24	1/20		SPARE
SPARE		1/20	25				26	1/20		SPARE
SPARE		1/20	27			495	28	2/15	495	BC-3N.1 & CASSETTES
SPARE		1/20	29			495	30		495	
			31				32			
SPARE		3/30	33				34	3/30		SPARE
			35				36			
			37				38			
SPARE		3/70	39				40	3/70		SPARE
			41				42			
				5,720	5,615	4,075	TOTAL VA		225	A. BUS (COPPER, UNO)
				48	47	34	TOTAL AMPERES		150	A. MAIN CIRCUIT BREAKER
				37%	36%	26%	PHASE BALANCE			
									10	KAIC MINIMUM RATING

NOTES:
1. COORDINATE CIRCUIT BREAKER TRIP WITH EQUIPMENT.

DEMAND SUMMARY:	CONN. (VA)	DEMAND FACTOR	DEMAND (VA)	NOTES
R: TOTAL RECEPTACLES (VA) = 12,320				
RECEPTACLES FIRST 10 KVA	10,000	1.00	10,000	
RECEPTACLES > 10 KVA	2,320	0.50	1,160	
L: LIGHTING		1.25		
M: MISCELLANEOUS EQUIPMENT	1,500	1.00	1,500	
O: OTHER EQUIPMENT		1.00		
B: LARGEST MOTOR		1.25		
H: HVAC EQUIPMENT (FLA = MCA X 0.8)	990	1.00	990	
K: KITCHEN EQUIPMENT		1.00		DEMAND FACTOR PER NEC TABLE 220.56
TOTAL CONNECTED (VA)	14,810			
TOTAL DEMAND (VA)			13,650	
TOTAL DEMAND (AMPERES)			37.9	
PANEL DEMAND LOADING VS RATING		25.3%		

Panel "2N4"

TYPE: 208 | 120 | VOLTS, 3 | PHASE, 4 | WIRE — PROVIDE IF CHECKED: XX | EQUIPMENT GROUND BUS
BOLT-ON — MOUNT: SURFACE — XX | 200 % NEUTRAL BUS
HINGED TRIM — FEED: BOTTOM — | ULSE LABEL
NEMA – 1 ENCLOSURE — | ISOLATED GROUND BAR

LOAD SERVED	LOAD VA	CKT BKR POLES/TRIP	CKT #	LOAD VA A	LOAD VA B	LOAD VA C	CKT #	CKT BKR POLES/TRIP	LOAD VA	LOAD SERVED
EXISTING CLASSROOM RECEPTACLES	1,000	1/20	1	1,540			2	1/20	540	RECEPTACLES 410
EXISTING CLASSROOM RECEPTACLES	1,000	1/20	3		1,540		4	1/20	540	RECEPTACLES 411
EXISTING CLASSROOM RECEPTACLES	1,000	1/20	5			1,540	6	1/20	540	RECEPTACLES 416
EXISTING CLASSROOM RECEPTACLES	1,000	1/20	7	1,720			8	1/20	720	RECEPTACLES 401
EXISTING CLASSROOM O/H PROJECTOR	1,000	1/20	9		1,000		10	1/20		RECEPTACLES ON ROOF
EXISTING CLASSROOM O/H PROJECTOR	1,000	1/20	11			1,600	12	1/20	600	EWC 400
EXISTING CLASSROOM O/H PROJECTOR	1,000	1/20	13	1,000			14	1/20		SPARE
EXISTING CLASSROOM O/H PROJECTOR	1,000	1/20	15		1,000		16	1/20		SPARE
SPARE		1/20	17			500	18	1/20	500	HVAC CONTROL POWER
SPARE		1/20	19	500			20	1/20	500	HVAC CONTROL POWER
SPARE		1/20	21		500		22	1/20	500	HVAC CONTROL POWER
SPARE		1/20	23				24	1/20		SPARE
SPARE		1/20	25				26	1/20		SPARE
SPARE		1/20	27		313		28	2/15	313	BC-4N.1
SPARE		1/20	29			313	30		313	
			31				32			
		3/30	33				34	3/30		SPARE
			35				36			
			37	2,052			38		2,052	
SPD		3/60	39		1,600		40	3/60	1,600	PANEL 2NR
			41			1,600	42		1,600	
				6,812	5,953	5,553	TOTAL VA		225	A. BUS (COPPER, UNO)
				57	50	46	TOTAL AMPERES		150	A. MAIN CIRCUIT BREAKER
				37%	32%	30%	PHASE BALANCE			
									10	KAIC MINIMUM RATING

NOTES:
1. COORDINATE CIRCUIT BREAKER TRIP WITH EQUIPMENT.

DEMAND SUMMARY:	CONN. (VA)	DEMAND FACTOR	DEMAND (VA)	NOTES
R: TOTAL RECEPTACLES (VA) = 10,340				
RECEPTACLES FIRST 10 KVA	10,000	1.00	10,000	
RECEPTACLES > 10 KVA	340	0.50	170	
L: LIGHTING	452	1.25	565	
M: MISCELLANEOUS EQUIPMENT	3,000	1.00	3,000	
O: OTHER EQUIPMENT		1.00		
B: LARGEST MOTOR		1.25		
H: HVAC EQUIPMENT (FLA = MCA X 0.8)	626	1.00	626	
K: KITCHEN EQUIPMENT		1.00		DEMAND FACTOR PER NEC TABLE 220.56
TOTAL CONNECTED (VA)	14,418			
TOTAL DEMAND (VA)			14,361	
TOTAL DEMAND (AMPERES)			39.9	
PANEL DEMAND LOADING VS RATING		26.6%		

Panel "2NR"

TYPE: 208 | 120 | VOLTS, 3 | PHASE, 4 | WIRE — PROVIDE IF CHECKED: XX | EQUIPMENT GROUND BUS
BOLT-ON — MOUNT: SURFACE — XX | 100 % NEUTRAL BUS
HINGED TRIM — FEED: BOTTOM — | ULSE LABEL
NEMA – ENCLOSURE — | ISOLATED GROUND BAR

LOAD SERVED	LOAD VA	CKT BKR POLES/TRIP	CKT #	LOAD VA A	LOAD VA B	LOAD VA C	CKT #	CKT BKR POLES/TRIP	LOAD VA	LOAD SERVED
SPARE		1/20	1	452			2	1/20	452	LIGHTS AND RECEPTACLES ON ROOF
SPARE		1/20	3				4	1/20		SPARE
SPARE		1/20	5				6	1/20		SPARE
SPARE		1/20	7				8	1/20		SPARE
SPARE		1/20	9				10	1/20		SPARE
SPARE		1/20	11				12	1/20		SPARE
SPARE		1/20	13				14	1/20		SPARE
SPARE		1/20	15				16	1/20		SPARE
SPARE		1/20	17			500	18	1/20	500	HVAC CONTROL POWER
SPARE		1/20	19	500			20	1/20	500	HVAC CONTROL POWER
SPARE		1/20	21		500		22	1/20	500	HVAC CONTROL POWER
SPARE		1/20	23				24	1/20		SPARE
SPARE		1/20	25	1,100			26		1,100	
SPARE		1/20	27		1,100		28	3/15	1,100	UNIT HEATER EUH2
SPARE		1/20	29			1,100	30		1,100	
				2,052	1,600	1,600	TOTAL VA		60	A. BUS (COPPER, UNO)
				17	13	13	TOTAL AMPERES		60	A. MAIN CIRCUIT BREAKER
				39%	30%	30%	PHASE BALANCE			
									10	KAIC MINIMUM RATING

NOTES:
1. COORDINATE CIRCUIT BREAKER TRIP WITH EQUIPMENT.

DEMAND SUMMARY:	CONN. (VA)	DEMAND FACTOR	DEMAND (VA)	NOTES
R: TOTAL RECEPTACLES (VA) =				
RECEPTACLES FIRST 10 KVA		1.00		
RECEPTACLES > 10 KVA		0.50		
L: LIGHTING	452	1.25	565	
M: MISCELLANEOUS EQUIPMENT	1,500	1.00	1,500	
O: OTHER EQUIPMENT		1.00		
B: LARGEST MOTOR		1.25		
H: HVAC EQUIPMENT (FLA = MCA X 0.8)	3,300	1.00	3,300	
K: KITCHEN EQUIPMENT		1.00		DEMAND FACTOR PER NEC TABLE 220.56
TOTAL CONNECTED (VA)	5,252			
TOTAL DEMAND (VA)			5,365	
TOTAL DEMAND (AMPERES)			14.9	
PANEL DEMAND LOADING VS RATING		24.8%		

Panel "2EM"

TYPE: 208 | 120 | VOLTS, 3 | PHASE, 4 | WIRE — PROVIDE IF CHECKED: XX | EQUIPMENT GROUND BUS
BOLT-ON — MOUNT: SURFACE — XX | 100 % NEUTRAL BUS
HINGED TRIM — FEED: BOTTOM — | ULSE LABEL
NEMA – 1 ENCLOSURE — | ISOLATED GROUND BAR

LOAD SERVED	LOAD VA	CKT BKR POLES/TRIP	CKT #	LOAD VA A	LOAD VA B	LOAD VA C	CKT #	CKT BKR POLES/TRIP	LOAD VA	LOAD SERVED
SPARE		1/20	1	1,080			2	1/20	1,080	RECEPTACLES 212,212A,212B,212C,213,214
SPARE		1/20	3		1,260		4	1/20	1,260	RECEPTACLES 212,212A,212B,212C,213,214
SPARE		1/20	5			1,500	6	1/20	1,500	MICROWAVE 216
SPARE		1/20	7	1,000			8	1/20	1,000	REFRIGERATOR 216
SPARE		1/20	9		360		10	1/20	360	RECEPTACLES 216
SPARE		1/20	11			600	12	1/20	600	EWC 211
SPARE		1/20	13	1,152			14	1/20	1,152	RECEPTACLES 204,205,206,PV11
SPARE		1/20	15		720		16	1/20	720	RECEPTACLES 202,203
			17				18			
SPARE		3/20	19				20	3/30		SPARE
			21				22			
BC-2S.1 & CASSETTES	406	2/15	23			874	24	2/15	468	AH-2E.1
	406		25	874			26		468	
BC-2S.2 & CASSETTES	196	2/15	27		665		28	2/15	468	AH-2E.2
	196		29			665	30		468	
				4,106	3,005	3,639	TOTAL VA		100	A. BUS (COPPER, UNO)
				34	25	30	TOTAL AMPERES		100	A. MAIN CIRCUIT BREAKER
				38%	28%	34%	PHASE BALANCE			
									10	KAIC MINIMUM RATING

NOTES:
1. COORDINATE CIRCUIT BREAKER TRIP WITH EQUIPMENT.

DEMAND SUMMARY:	CONN. (VA)	DEMAND FACTOR	DEMAND (VA)	NOTES
R: TOTAL RECEPTACLES (VA) = 4,572				
RECEPTACLES FIRST 10 KVA	4,572	1.00	4,572	
RECEPTACLES > 10 KVA		0.50		
L: LIGHTING		1.25		
M: MISCELLANEOUS EQUIPMENT	3,100	1.00	3,100	
O: OTHER EQUIPMENT		1.00		
B: LARGEST MOTOR		1.25		
H: HVAC EQUIPMENT (FLA = MCA X 0.8)	3,078	1.00	3,078	
K: KITCHEN EQUIPMENT		1.00		DEMAND FACTOR PER NEC TABLE 220.56
TOTAL CONNECTED (VA)	10,750			
TOTAL DEMAND (VA)			10,750	
TOTAL DEMAND (AMPERES)			29.8	
PANEL DEMAND LOADING VS RATING		29.8%		

Panel "2EMIT"

TYPE: 208 | 120 | VOLTS, 3 | PHASE, 4 | WIRE — PROVIDE IF CHECKED: XX | EQUIPMENT GROUND BUS
BOLT-ON — MOUNT: SURFACE — XX | 100 % NEUTRAL BUS
HINGED TRIM — FEED: BOTTOM — | ULSE LABEL
NEMA – 1 ENCLOSURE — | ISOLATED GROUND BAR

LOAD SERVED	LOAD VA	CKT BKR POLES/TRIP	CKT #	LOAD VA A	LOAD VA B	LOAD VA C	CKT #	CKT BKR POLES/TRIP	LOAD VA	LOAD SERVED
SPARE		1/20	1				2	1/20		SPARE
SPARE		1/20	3				4	1/20		SPARE
SPARE		1/20	5			468	6	2/15	468	AH-2E1.1
	3,170		7	3,639			8		468	
HP-2E1	3,170	3/50	9		3,639		10	2/15	468	AH-2E1.2
	3,170		11			3,639	12		468	
			13				14			
SPD		3/60	15				16	3/30		SPARE
			17				18			
				3,639	3,639	4,107	TOTAL VA		100	A. BUS (COPPER, UNO)
				30	30	34	TOTAL AMPERES		100	A. MAIN CIRCUIT BREAKER
				32%	32%	36%	PHASE BALANCE			
									10	KAIC MINIMUM RATING

DEMAND SUMMARY:	CONN. (VA)	DEMAND FACTOR	DEMAND (VA)	NOTES
R: TOTAL RECEPTACLES (VA) =				
RECEPTACLES FIRST 10 KVA		1.00		
RECEPTACLES > 10 KVA		0.50		
L: LIGHTING		1.25		
M: MISCELLANEOUS EQUIPMENT		1.00		
O: OTHER EQUIPMENT		1.00		
B: LARGEST MOTOR		1.25		
H: HVAC EQUIPMENT (FLA = MCA X 0.8)	11,385	1.00	11,385	
K: KITCHEN EQUIPMENT		1.00		DEMAND FACTOR PER NEC TABLE 220.56
TOTAL CONNECTED (VA)	11,385			
TOTAL DEMAND (VA)			11,385	
TOTAL DEMAND (AMPERES)			31.6	
PANEL DEMAND LOADING VS RATING		31.6%		

NOTE: ARRANGE PANELBOARD BRANCH CIRCUIT BREAKERS AS SHOWN ON THE ABOVE SCHEDULES. AGREEMENT OF CIRCUIT BREAKER (POLE) NUMBERS WITH THE PANEL SCHEDULES AND ELECTRICAL FLOOR PLANS IS REQUIRED IN ORDER TO AVOID CONFUSION DURING CONSTRUCTION. REDRAWING THE CIRCUITRY FOR RECORD DRAWING PURPOSES AND ACCURATE DOCUMENTATION OF THE AS-BUILT CONDITIONS.

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NORTH CAROLINA PROFESSIONAL SEAL 8433 ENGINEER CHRISTOPHER M. MCFADYEN
9.3.20

CAPE FEAR COMMUNITY COLLEGE

PROJECT TITLE

RENOVATIONS OF GALEHOUSE (A BUILDING), MCLEOD (S BUILDING), AND NATURAL SCIENCES (N BUILDING)

411 N Front Street
Wilmington, NC 28401
SCO#17-18154-01A;NCCCS# 2352

SHEET TITLE

ELECTRICAL PANEL SCHEDULES

ISSUE BLOCK

Mark	Date	Description
B	9/03/2020	ADDENDUM #2
A	8/28/2020	ADDENDUM #1
0	8/14/2020	ISSUED FOR BID

PROJECT NO: 2018023.00
DATE: 8/14/2020
SCALE: As indicated
DRAWN BY: WPJ | PROJ MGR: RDM

E009.2

McFadyen Engineers, PLLC
4411 Peachtree Avenue Wilmington, NC 28403 Phone : 910.399.1125

Panel "2S1"

TYPE:	208	120	VOLTS,	3	PHASE,	4	WIRE		PROVIDE IF CHECKED	xx	EQUIPMENT GROUND BUS
BOLT-ON	MOUNT:	SURFACE								xx	200 % NEUTRAL BUS
HINGED TRIM	FEED:	BOTTOM									ULSE LABEL
	NEMA –	1	ENCLOSURE								ISOLATED GROUND BAR

LOAD SERVED	LOAD VA	CKT BKR POLES/TRIP	CKT #	LOAD VA A	LOAD VA B	LOAD VA C	CKT #	CKT BKR POLES/TRIP	LOAD VA	LOAD SERVED
RECEPTACLES 106	500	1/20	1	1,400			2	1/20	900	RECEPTACLES 106A,112
RECEPTACLES 106	500	1/20	3		1,100		4	1/20	600	EWC 101
RECEPTACLES 106	500	1/20	5			860	6	1/20	360	RECEPTACLES 106B
RECEPTACLES 106	500	1/20	7	860			8	1/20	360	TELECOMMUNICATION BACKBOARD @2 106A
RECEPTACLES 106	500	1/20	9		1,000		10	1/20	500	CORD REEL 107
RECEPTACLES 106	500	1/20	11			1,000	12	1/20	500	CORD REEL 107
RECEPTACLES 106	500	1/20	13	1,000			14	1/20	500	CORD REEL 107
RECEPTACLES 106	500	1/20	15		1,000		16	1/20	500	CORD REEL 107
RECEPTACLES 106	500	1/20	17			1,000	18	1/20	500	HVAC CONTROL POWER
RECEPTACLES 107	500	1/20	19	1,000			20	1/20	500	HVAC CONTROL POWER
RECEPTACLES 107	500	1/20	21		1,000		22	1/20	500	HVAC CONTROL POWER
RECEPTACLES 107	500	1/20	23			700	24	1/20	200	HW CIRC PUMP CP1
RECEPTACLES 107	500	1/20	25	500			26	1/20		SPARE
RECEPTACLES 107	500	1/20	27		1,449		28	2/15	949	AH1.2, AH1.4
RECEPTACLES 107	500	1/20	29			1,449	30		949	
RECEPTACLES 107	500	1/20	31	500			32			
RECEPTACLES 107	500	1/20	33		500		34	3/30		SPARE
RECEPTACLES 107	500	1/20	35			500	36			
			37	3,639			38		3,639	
SPARE		3/70	39		3,639		40	3/100	3,639	PANEL 2EMIT VIA EXISTING ATS 2EMIT
			41			4,107	42		4,107	
NOTES:				8,899	9,688	9,617	TOTAL VA			225 A. BUS (COPPER, UNO)
1. COORDINATE CIRCUIT BREAKER TRIP WITH EQUIPMENT.				74	81	80	TOTAL AMPERES			150 A. MAIN CIRCUIT BREAKER
				32%	34%	34%	PHASE BALANCE			
										10 KAIC MINIMUM RATING

DEMAND SUMMARY:		CONN. (VA)	DEMAND FACTOR	DEMAND (VA)	NOTES
R: TOTAL RECEPTACLES (VA) =	12,260				
RECEPTACLES FIRST 10 KVA		10,000	1.00	10,000	
RECEPTACLES > 10 KVA		2,260	0.50	1,130	
L: LIGHTING			1.25		
M: MISCELLANEOUS EQUIPMENT		2,660	1.00	2,660	
O: OTHER EQUIPMENT			1.00		
B: LARGEST MOTOR			1.25		
H: HVAC EQUIPMENT (FLA = MCA X 0.8)		13,283	1.00	13,283	
K: KITCHEN EQUIPMENT			1.00		DEMAND FACTOR PER NEC TABLE 220.56
TOTAL CONNECTED (VA)		28,203			
TOTAL DEMAND (VA)				27,073	
TOTAL DEMAND (AMPERES)				75.1	
PANEL DEMAND LOADING VS RATING			50.1%		

Panel "2S4"

TYPE:	208	120	VOLTS,	3	PHASE,	4	WIRE		PROVIDE IF CHECKED	xx	EQUIPMENT GROUND BUS
BOLT-ON	MOUNT:	SURFACE								xx	200 % NEUTRAL BUS
HINGED TRIM	FEED:	BOTTOM									ULSE LABEL
	NEMA –	1	ENCLOSURE								ISOLATED GROUND BAR

LOAD SERVED	LOAD VA	CKT BKR POLES/TRIP	CKT #	LOAD VA A	LOAD VA B	LOAD VA C	CKT #	CKT BKR POLES/TRIP	LOAD VA	LOAD SERVED
EXISTING CLASSROOM RECEPTACLES	1,000	1/20	1	1,540			2	1/20	540	RECEPTACLES 407
EXISTING CLASSROOM RECEPTACLES	1,000	1/20	3		1,540		4	1/20	540	RECEPTACLES 408
EXISTING CLASSROOM RECEPTACLES	1,000	1/20	5			1,540	6	1/20	540	RECEPTACLES 409
EXISTING CLASSROOM O/H PROJECTOR	1,000	1/20	7	1,540			8	1/20	540	RECEPTACLES 402
EXISTING CLASSROOM O/H PROJECTOR	1,000	1/20	9		1,600		10	1/20	600	EWC 400
EXISTING CLASSROOM O/H PROJECTOR	1,000	1/20	11			1,000	12	1/20		RECEPTACLES ON ROOF
SPARE		1/20	13				14	1/20		SPARE
SPARE		1/20	15				16	1/20		SPARE
SPARE		1/20	17			500	18	1/20	500	HVAC CONTROL POWER
SPARE		1/20	19	500			20	1/20	500	HVAC CONTROL POWER
SPARE		1/20	21		500		22	1/20	500	HVAC CONTROL POWER
SPARE		1/20	23				24	1/20		SPARE
SPARE		1/20	25				26	1/20		SPARE
SPARE		1/20	27		315		28	2/15	315	BC-4S.1 & CASSETTES
SPARE		1/20	29			315	30		315	
SPARE			31				32			
		3/30	33				34	3/30		SPARE
SPARE			35				36			
			37	600			38		600	
SPD		3/60	39		1,452		40	3/70	1,452	PANEL 2SR
			41			1,200	42		1,200	
NOTES:				4,180	5,407	4,555	TOTAL VA			225 A. BUS (COPPER, UNO)
1. COORDINATE CIRCUIT BREAKER TRIP WITH EQUIPMENT.				35	45	38	TOTAL AMPERES			150 A. MAIN CIRCUIT BREAKER
				30%	39%	32%	PHASE BALANCE			
										10 KAIC MINIMUM RATING

DEMAND SUMMARY:		CONN. (VA)	DEMAND FACTOR	DEMAND (VA)	NOTES
R: TOTAL RECEPTACLES (VA) =	8,160				
RECEPTACLES FIRST 10 KVA		8,160	1.00	8,160	
RECEPTACLES > 10 KVA			0.50		
L: LIGHTING		552	1.25	690	
M: MISCELLANEOUS EQUIPMENT		3,800	1.00	3,800	
O: OTHER EQUIPMENT			1.00		
B: LARGEST MOTOR			1.25		
H: HVAC EQUIPMENT (FLA = MCA X 0.8)		1,631	1.00	1,631	
K: KITCHEN EQUIPMENT			1.00		DEMAND FACTOR PER NEC TABLE 220.56
TOTAL CONNECTED (VA)		14,143			
TOTAL DEMAND (VA)				14,281	
TOTAL DEMAND (AMPERES)				39.6	
PANEL DEMAND LOADING VS RATING			26.4%		

Panel "2S3"

TYPE:	208	120	VOLTS,	3	PHASE,	4	WIRE		PROVIDE IF CHECKED	xx	EQUIPMENT GROUND BUS
BOLT-ON	MOUNT:	SURFACE								xx	200 % NEUTRAL BUS
HINGED TRIM	FEED:	BOTTOM									ULSE LABEL
	NEMA –	1	ENCLOSURE								ISOLATED GROUND BAR

LOAD SERVED	LOAD VA	CKT BKR POLES/TRIP	CKT #	LOAD VA A	LOAD VA B	LOAD VA C	CKT #	CKT BKR POLES/TRIP	LOAD VA	LOAD SERVED
EXISTING CLASSROOM RECEPTACLES	1,000	1/20	1	2,080			2	1/20	1,080	RECEPTACLES 307,307A,307B,307C,307D
EXISTING CLASSROOM RECEPTACLES	1,000	1/20	3		2,080		4	1/20	1,080	RECEPTACLES 307,307A,307B,307C,307D
EXISTING CLASSROOM RECEPTACLES	1,000	1/20	5			1,540	6	1/20	540	RECEPTACLES 308
EXISTING CLASSROOM RECEPTACLES	1,000	1/20	7	1,540			8	1/20	540	RECEPTACLES 302
EXISTING CLASSROOM O/H PROJECTOR	1,000	1/20	9		1,540		10	1/20	540	RECEPTACLES 301
EXISTING CLASSROOM O/H PROJECTOR	1,000	1/20	11			1,600	12	1/20	600	EWC 300
EXISTING CLASSROOM O/H PROJECTOR	1,000	1/20	13	1,000			14	1/20		SPARE
EXISTING CLASSROOM O/H PROJECTOR	1,000	1/20	15		1,000		16	1/20		SPARE
SPARE		1/20	17			500	18	1/20	500	HVAC CONTROL POWER
SPARE		1/20	19	500			20	1/20	500	HVAC CONTROL POWER
SPARE		1/20	21		500		22	1/20	500	HVAC CONTROL POWER
SPARE		1/20	23				24	1/20		SPARE
SPARE		1/20	25				26	1/20		SPARE
SPARE		1/20	27		322		28	2/15	322	BC-3S.1 & CASSETTES
SPARE		1/20	29			322	30		322	
			31				32			
SPARE		3/30	33				34	3/30		SPARE
			35				36			
			37				38			
SPARE		3/70	39				40	3/70		SPARE
			41				42			
NOTES:				5,120	5,442	3,962	TOTAL VA			225 A. BUS (COPPER, UNO)
1. COORDINATE CIRCUIT BREAKER TRIP WITH EQUIPMENT.				43	45	33	TOTAL AMPERES			150 A. MAIN CIRCUIT BREAKER
				35%	37%	27%	PHASE BALANCE			
										10 KAIC MINIMUM RATING

DEMAND SUMMARY:		CONN. (VA)	DEMAND FACTOR	DEMAND (VA)	NOTES
R: TOTAL RECEPTACLES (VA) =	11,780				
RECEPTACLES FIRST 10 KVA		10,000	1.00	10,000	
RECEPTACLES > 10 KVA		1,780	0.50	890	
L: LIGHTING			1.25		
M: MISCELLANEOUS EQUIPMENT		2,100	1.00	2,100	
O: OTHER EQUIPMENT			1.00		
B: LARGEST MOTOR			1.25		
H: HVAC EQUIPMENT (FLA = MCA X 0.8)		644	1.00	644	
K: KITCHEN EQUIPMENT			1.00		DEMAND FACTOR PER NEC TABLE 220.56
TOTAL CONNECTED (VA)		14,524			
TOTAL DEMAND (VA)				13,634	
TOTAL DEMAND (AMPERES)				37.8	
PANEL DEMAND LOADING VS RATING			25.2%		

Panel "2SR"

TYPE:	208	120	VOLTS,	3	PHASE,	4	WIRE		PROVIDE IF CHECKED	xx	EQUIPMENT GROUND BUS
BOLT-ON	MOUNT:	SURFACE								xx	100 % NEUTRAL BUS
HINGED TRIM	FEED:	BOTTOM									ULSE LABEL
	NEMA –	1	ENCLOSURE								ISOLATED GROUND BAR

LOAD SERVED	LOAD VA	CKT BKR POLES/TRIP	CKT #	LOAD VA A	LOAD VA B	LOAD VA C	CKT #	CKT BKR POLES/TRIP	LOAD VA	LOAD SERVED
SPARE		1/20	1	100			2	1/20	100	ELEVATOR CAB LIGHTS
SPARE		1/20	3		452		4	1/20	452	LIGHTS AND RECEPTACLES ON ROOF
SPARE		1/20	5				6	1/20		SPARE
SPARE		1/20	7				8	1/20		SPARE
SPARE		1/20	9				10	1/20		SPARE
SPARE		1/20	11				12	1/20		SPARE
SPARE		1/20	13				14	1/20		SPARE
SPARE		1/20	15				16	1/20		SPARE
SPARE		1/20	17			500	18	1/20	500	HVAC CONTROL POWER
SPARE		1/20	19	500			20	1/20	500	HVAC CONTROL POWER
SPARE		1/20	21		500		22	1/20	500	HVAC CONTROL POWER
SPARE		1/20	23				24	1/20		SPARE
SPARE		1/20	25				26	1/20		SPARE
SPARE		1/20	27		500		28	2/20	500	EXISTING ELEVATOR MACHINE ROOM PWR 2
SPARE		1/20	29			500	30		500	
NOTES:				600	1,452	1,000	TOTAL VA			60 A. BUS (COPPER, UNO)
1. COORDINATE CIRCUIT BREAKER TRIP WITH EQUIPMENT.				5	12	8	TOTAL AMPERES			60 A. MAIN CIRCUIT BREAKER
				20%	48%	33%	PHASE BALANCE			
										10 KAIC MINIMUM RATING

DEMAND SUMMARY:		CONN. (VA)	DEMAND FACTOR	DEMAND (VA)	NOTES
R: TOTAL RECEPTACLES (VA) =					
RECEPTACLES FIRST 10 KVA			1.00		
RECEPTACLES > 10 KVA			0.50		
L: LIGHTING		552	1.25	690	
M: MISCELLANEOUS EQUIPMENT		1,500	1.00	1,500	
O: OTHER EQUIPMENT			1.00		
B: LARGEST MOTOR			1.25		
H: HVAC EQUIPMENT (FLA = MCA X 0.8)		1,000	1.00	1,000	
K: KITCHEN EQUIPMENT			1.00		DEMAND FACTOR PER NEC TABLE 220.56
TOTAL CONNECTED (VA)		3,052			
TOTAL DEMAND (VA)				3,190	
TOTAL DEMAND (AMPERES)				8.9	
PANEL DEMAND LOADING VS RATING			14.8%		

NOTE: ARRANGE PANELBOARD BRANCH CIRCUIT BREAKERS AS SHOWN ON THE ABOVE SCHEDULES. AGREEMENT OF CIRCUIT BREAKER (POLE) NUMBERS WITH THE PANEL SCHEDULES AND ELECTRICAL FLOOR PLANS IS REQUIRED IN ORDER TO AVOID CONFUSION DURING CONSTRUCTION, REDRAWING THE CIRCUITRY FOR RECORD DRAWING PURPOSES AND ACCURATE DOCUMENTATION OF THE AS-BUILT CONDITIONS.

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NORTH CAROLINA PROFESSIONAL SEAL 8433 ENGINEER RYAN M. FADYEN
9.3.20

CAPE FEAR COMMUNITY COLLEGE

PROJECT TITLE

RENOVATIONS OF GALEHOUSE (A BUILDING), MCLEOD (S BUILDING), AND NATURAL SCIENCES (N BUILDING)

411 N Front Street
Wilmington, NC 28401
SCO#17-18154-01A;NCCCS# 2352

SHEET TITLE

ELECTRICAL PANEL SCHEDULES

ISSUE BLOCK

Mark	Date	Description
B	9/03/2020	ADDENDUM #2
0	8/14/2020	ISSUED FOR BID

PROJECT NO: 2018023.00
DATE: 8/14/2020
SCALE: As indicated
DRAWN BY: WPJ | PROJ MGR: RDM

E009.3

FIRE ALARM SYSTEM CONTROL MATRIX

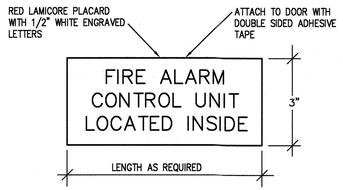
SYSTEM INPUTS	NOTE	SYSTEM OUTPUTS: ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE NOTIFICATION APPLIANCES	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ALARM SIGNAL TO MONITORING SERVICE	SUPERVISORY SIGNAL TO MONITORING SERVICE	TROUBLE SIGNAL TO MONITORING SERVICE	DISPLAY/PRINT CHANGE OF STATUS	RELEASE MAGNETICALLY HELD DOORS	RECALL ELEVATORS TO PRIMARY RECALL FLOOR	RECALL ELEVATORS TO ALTERNATE RECALL FLOOR	ACTIVATE FIRE HAT SIGNAL	SIGNAL HVAC CONTROL SYSTEM	ACTUATE SMOKE DAMPERS	SHUNT TRIP ELEVATOR FEEDER CIRCUIT BREAKER
SMOKE DETECTORS		X	X			X			X	X				X	X	
HEAT DETECTORS		X	X			X			X	X				X	X	
DUCT MOUNTED SMOKE DETECTORS	2	X	X			X			X	X				X	X	
MANUAL PULL STATIONS		X	X			X			X	X				X	X	
AHU SHUTDOWN AND SMOKE DAMPER OVERRIDE SWITCH					X		X									
SYSTEM TROUBLE CONDITION				X				X								
LOSS OF FACU AC POWER	1			X				X								
FACP LOW BATTERY				X												
NAC POWER SUPPLY LOW BATTERY				X												
GROUND FAULT				X				X								
SHORT CIRCUIT				X				X								
OPEN CIRCUIT				X				X								
PRIMARY FLOOR ELEVATOR LOBBY RECALL SMOKE DETECTOR		X				X			X	X		X		X	X	
ALTERNATE FLOOR ELEVATOR LOBBY RECALL SMOKE DETECTOR		X	X			X			X	X	X			X	X	
ELEVATOR MACHINE ROOM SMOKE DETECTOR		X	X			X			X	X			X	X	X	
ELEVATOR MACHINE ROOM HEAT DETECTOR		X	X			X			X	X			X	X	X	X
ELEVATOR SHUNT TRIP POWER SUPERVISORY SYSTEM					X		X									
SPRINKLER SYSTEM FLOW SWITCH	3	X	X			X			X	X				X	X	
STANDPIPE FLOW SWITCH	3	X	X			X			X	X				X	X	
SPRINKLER SYSTEM TAMPER SWITCH	3				X		X									
STANDPIPE TAMPER SWITCH	3				X		X									
SPRINKLER PRESSURE SWITCH	3				X		X									
STANDPIPE PRESSURE SWITCH	3				X		X									
POST INDICATOR VALVE TAMPER SWITCH					X		X									
RPZ TAMPER SWITCH	3				X		X									
RPZ HOT BOX LOW TEMPERATURE	3				X		X									

NOTES:
1. ONLY AFTER LOSS OF POWER FOR > 8 HOURS.
2. REFER TO MECHANICAL DRAWINGS FOR DUCT MOUNTED SMOKE DETECTOR LOCATIONS.
3. QUANTITIES OF DEVICES ARE NOT SHOWN. SEE FIRE PROTECTION DRAWINGS FOR QUANTITIES AND LOCATIONS. COORDINTE WITH THE FIRE PROTECTION CONTRACTOR AND CONFIRM ALL DEVICES REQUIRING FIRE ALARM SYSTEM SUPERVISION.
4. THIS IS A ABBREVIATED CONTROL MATRIX. REFER TO THE MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

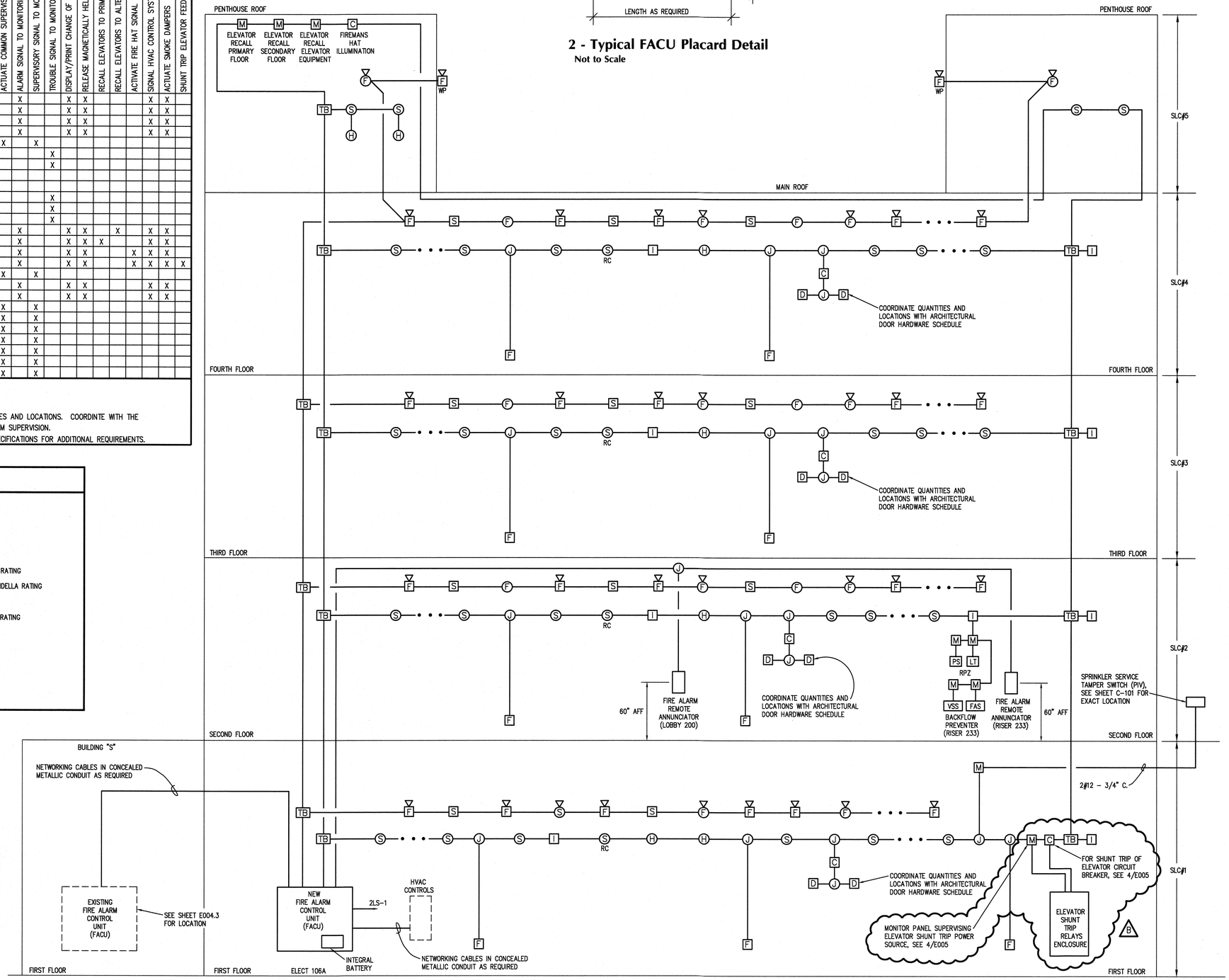
Fire Alarm Legend

F	FIRE ALARM MANUAL STATION, 48" AFF
SE F	FIRE ALARM MANUAL STATION, 48" AFF WITH SECURITY ENCLOSURE
WP F	WEATHERPROOF FIRE ALARM MANUAL STATION, 48" AFF
75 F	FIRE ALARM AURAL/VISUAL DEVICE, 80" AFF, "75" INDICATED CANDELLA RATING
75 F	FIRE ALARM AURAL/VISUAL DEVICE, CEILING MOUNTED, "75" INDICATED CANDELLA RATING
WP 75 F	WEATHERPROOF FIRE ALARM AURAL/VISUAL DEVICE, 80" AFF, "75" INDICATED CANDELLA RATING
15 S	FIRE ALARM VISUAL (ONLY) DEVICE, 80" AFF, "15" INDICATES CANDELLA RATING
15 F	FIRE ALARM VISUAL (ONLY) DEVICE, CEILING MOUNTED, "15" INDICATES CANDELLA RATING
S	SMOKE DETECTOR, CEILING MOUNTED
RC S	SMOKE DETECTOR, CEILING MOUNTED WITH ELEVATOR RECALL FUNCTION
H	HEAT DETECTOR, CEILING MOUNTED
RC H	HEAT DETECTOR, CEILING MOUNTED WITH ELEVATOR RECALL FUNCTION
I	FIRE ALARM ISOLATION MODULE
C	FIRE ALARM SYSTEM CONTROL MODULE
M	FIRE ALARM SYSTEM MONITOR MODULE
TB	FIRE ALARM SYSTEM TERMINAL BOX
D	DOOR HOLD OPEN DEVICE
LT	LOW TEMPERATURE SWITCH
PS	FIRE PROTECTION SYSTEM PRESSURE SWITCH
VSS	FIRE PROTECTION SYSTEM TAMPER SWITCH
FAS	FIRE PROTECTION SYSTEM FLOW SWITCH

NOTES: 1. RISER DIAGRAM IS DEPICTIVE (FUNCTIONAL) ONLY. ALL DEVICES ARE NOT SHOWN
2. SEE SPECIFICATIONS SECTION 283111 FOR DETAILS.
3. SHOP DRAWINGS MUST BE SUBMITTED BY THE FIRE ALARM CONTRACTOR COMPLYING WITH THE FIRE ALARM PLAN REVIEW REQUIREMENTS POLICY – JANUARY 2002 BEFORE PERMITTING BY THE WILMINGTON FIRE DEPARTMENT. THESE DRAWINGS DO NOT CONSTITUTE APPROVAL AND MAY CHANGE AFTER A FULL REVIEW BY THE WILMINGTON FIRE DEPARTMENT. A SEPARATE PERMIT MUST BE OBTAINED PRIOR TO INSTALLATION.
4. DETECTOR SPACINGS ARE PER NFPA 72 IN AREAS WITH CONCRETE TEE CEILING ON THE FIRST FLOOR, FOLLOW SPACING INDICATED.



2 - Typical FACU Placard Detail
Not to Scale



1 - Functional Fire Alarm Riser Diagram
Not to Scale

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NORTH CAROLINA PROFESSIONAL SEAL 8433 ENGINEER R. DUNCAN MCLEOD
9/3/20

CAPE FEAR COMMUNITY COLLEGE

PROJECT TITLE

RENOVATIONS OF GALEHOUSE (A BUILDING), MCLEOD (S BUILDING), AND NATURAL SCIENCES (N BUILDING)

411 N Front Street
Wilmington, NC 28401
SCO#17-18154-01A;NCCCS# 2352

SHEET TITLE

FIRE ALARM RISER DIAGRAM

ISSUE BLOCK

Mark	Date	Description
B	9/03/2020	ADDENDUM #2
0	8/14/2020	ISSUED FOR BID

PROJECT NO:	2018023.00
DATE:	8/14/2020
SCALE:	As indicated
DRAWN BY: WPJ	PROJ MGR: RDM

E012

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LIGHTING FIXTURE SCHEDULE

MARK	DESCRIPTION.	SIZE/APERTURE	VOLTS	LAMPS	WATTS	LENS	TRIM/DOOR	TRIM COLOR	MOUNTING HEIGHT	REMARKS	MANUFACTURER	NOTE 5 APPLIES?
L1	LAY-IN GRID LED	2'x4'	UNIV.	7200 LUMEN 3500K LED	54	ADP DIFFUSER	FLUSH STEEL	WHITE	RECESSED GRID MOUNTED	10%, 0-10V GZ10 DIMMING DRIVER	LITHONIA "2BLT" SERIES COLUMBIA "LCAT24" SERIES DAY-BRITE "2FGG" SERIES	
L1E	LAY-IN GRID LED	2'x4'	UNIV.	7200 LUMEN 3500K LED	54	ADP DIFFUSER	FLUSH STEEL	WHITE	RECESSED GRID MOUNTED	10%, 0-10V GZ10 DIMMING DRIVER, E10WLCP 90 MINUTE BATTERY BACKUP WITH SELF DIAGNOSTICS AND TEST/STATUS LIGHT	LITHONIA "2BLT" SERIES COLUMBIA "LCAT24" SERIES DAY-BRITE "2FGG" SERIES	
L2	LAY-IN GRID LED	2'x4'	UNIV.	6000 LUMEN 3500K LED	49	ADP DIFFUSER	FLUSH STEEL	WHITE	RECESSED GRID MOUNTED	10%, 0-10V GZ10 DIMMING DRIVER	LITHONIA "2BLT" SERIES COLUMBIA "LCAT24" SERIES DAY-BRITE "2FGG" SERIES	
L2E	LAY-IN GRID LED	2'x4'	UNIV.	6000 LUMEN 3500K LED	49	ADP DIFFUSER	FLUSH STEEL	WHITE	RECESSED GRID MOUNTED	10%, 0-10V GZ10 DIMMING DRIVER, E10WLCP 90 MINUTE BATTERY BACKUP WITH SELF DIAGNOSTICS AND TEST/STATUS LIGHT	LITHONIA "2BLT" SERIES COLUMBIA "LCAT24" SERIES DAY-BRITE "2FGG" SERIES	
L3	LAY-IN GRID LED	2'x4'	UNIV.	4800 LUMEN 3500K LED	36	0.125" ACRYLIC PRISMATIC	FLUSH STEEL	WHITE	RECESSED GRID MOUNTED	10%, 0-10V GZ10 DIMMING DRIVER	LITHONIA "2GTL" SERIES COLUMBIA "LJT24" SERIES DAY-BRITE "2TG" SERIES	
L3A	LAY-IN GRID LED	2'x2'	UNIV.	4000 LUMEN 3500K LED	30	0.125" ACRYLIC PRISMATIC	FLUSH STEEL	WHITE	RECESSED GRID MOUNTED	10%, 0-10V GZ10 DIMMING DRIVER	LITHONIA "2GTL" SERIES COLUMBIA "LJT24" SERIES DAY-BRITE "2TG" SERIES	
L4	SURFACE MOUNTED LED	4'	UNIV.	4146 LUMEN 3500K LED	38	DIFFUSE POLYCARBONATE	FLUSH STEEL	WHITE	SURFACE CEILING	80 CRI	LITHONIA "CDS" SERIES COLUMBIA "CSL4" SERIES DAY-BRITE "SCD" SERIES	
L5	WALL MOUNTED INDIRECT / DIRECT LED	4'	UNIV.	2600 LUMEN 3500K LED	23			WHITE	WALL AT EXISTING FIXTURE LOCATION	WHITE REFLECTOR, OPD SHIELDING, SSB BAFFLE, SCT SWITCHING, 70% UP / 30% DOWN DISTRIBUTION, 80 CRI	PEERLESS "BRW9L" SERIES FINELITE "S16LED" SERIES LEDALITE "7408" SERIES	
L6	PENANT MOUNTED LINEAR LED LINEAR LED	2" x LENGTH AS INDICATED	UNIV.	900 LUMENS/LF 3500K LED	13.6 W/LF 42W	SPOTLESS LENS	EXTRUDED ALUMINUM	WHITE	PENDANT AT 8'-0" BOTTOM OF FIXTURE	80 CRI, 0-10V DIMMING,	AXIS "BRLED" SERIES FINELITE" HP2" SERIESS LEDALITE " 2203" SERIES	YES
L7	RECESSED FLANGELESS MOUNTED LINEAR LED	2" x LENGTH AS INDICATED	UNIV.	900 LUMENS/LF 3500K LED	13.6 4W/LF 42W	SPOTLESS LENS	EXTRUDED ALUMINUM	WHITE	"D" DRYWALL FLANGLESS	80 CRI, 0-10V DIMMING	AXIS "BRLED" SERIES FINELITE "HP2" SERIES LEDALITE " 2301" SERIES	YES
L9	RECESSED LED DOWNLIGHT	4"	UNIV.	2500 LUMEN 3500K LED	30	_____	ALUMINUM	WHITE	RECESSED CEILING	MEDIUM WIDE DISTRIBUTION, SEMI-SPECULAR DIFFUSE	LITHONIA "LDN4" SERIES INTL "SS4" SERIES HALO "PD4" SERIES	
L10	RECESSED LED DOWNLIGHT	4"	UNIV.	3000 LUMEN 3500K LED	35	_____	ALUMINUM	WHITE	RECESSED CEILING	MEDIUM WIDE DISTRIBUTION, SEMI-SPECULAR DIFFUSE	LITHONIA "LDN4" SERIES INTL "SS4" SERIES HALO "PD4" SERIES	
L11	SURFACE MOUNTED LED WRAPAROUND	4'	UNIV.	4800 LUMEN 3500K LED	41	ACRYLIC	STEEL	WHITE	SURFACE CEILING	GTZ 0-10V DIMMING, 80 CRI	LITHONIA "LBL4" SERIES INTL "SS4" SERIES HALO "PD4" SERIES	
L11E	SURFACE MOUNTED LED WRAPAROUND	4'	UNIV.	4800 LUMEN 3500K LED	41	ACRYLIC	STEEL	WHITE	SURFACE CEILING	GTZ 0-10V DIMMING, 80 CRI, E10WLCP 90 MINUTE BATTERY BACKUP WITH SELF DIAGNOSTICS AND TEST/STATUS LIGHT	LITHONIA "LBL4" SERIES INTL "SS4" SERIES HALO "PD4" SERIES	
L12	SURFACE MOUNTED LED	4'	UNIV.	4000 LUMEN 3500K LED	40	ACL ACRYLIC	FIBERGLASS	_____	WALL AT EXISTING FIXTURE ELEVATION	MEDIUM DISTRIBUTION, 80 CRI, WET LOCATION LABEL	LITHONIA "FEM LED" SERIES COLUMBIA "LXEM4" SERIES LUMEX "VNBTLED" SERIES	
L12A	SURFACE MOUNTED LED	4'	UNIV.	4000 LUMEN 3500K LED	40	ACL ACRYLIC	FIBERGLASS	_____	SURFACE CEILING	MEDIUM DISTRIBUTION, 80 CRI, WET LOCATION LABEL	LITHONIA "FEM LED" SERIES COLUMBIA "LXEM4" SERIES LUMEX "VNBTLED" SERIES	
L13	WALL MOUNTED LED AREA LIGHT	16" x 15"	UNIV.	20C, 8427 LUMEN 4000K LED	72	GLASS	_____	DARK BRONZE	WALL, AT EXISTING FIXTURE LOCATON	1000 mA DRIVER, TYPE III MEDIUM DISTRIBUTION, WET LOCATION LABEL	LITHONIA "TWH LED" SERIES ILP "WPLO" SEREIS STONCO "WP75" SERIES	
L14	WALL MOUNTED LED AREA LIGHT	16" x 15"	UNIV.	10C, 6983 LUMEN 4000K LED	39	GLASS	_____	DARL BRONZE	WALL AT 7'-6"	WET LOCATION LABEL	LITHONIA "TWH LED" SERIES ILP "WPLO" SEREIS STONCO "WP50" SERIES	
L15	POLE STREETLIGHTING FIXTURE	16" x 32"	277	6245 LUMEN 4000K LED	56	CLEAR LEXAN WITH HSS HOUSESIDE SHIELD	_____	BLACK	POLE	12' TALL, 4" DIAMETER FLUTED ALUMINUM POLE, 120V, 20A, WEATHERPROOF DUPLEX RECEPTACLE, FINIAL	STERBERG LANTERNS "VLED-A-850" CITY OF WLMNGTON STANDARD NO SUBSTITUTIONS	
L16	LED HIGHBAY	4'	277	24000 LUMEN 3500K LED	192	SEMI-DIFFUSE ACRYLIC	ALUMINUM	WHITE	SURFACE ON STRUCTURE	WD DISTRIBUTION, SD125 LENS, SURFACE MOUNTING BRACKET	LITHONIA "IBL" SEREIS ILP "EDV" SERIES DAY-BRITE "FBY" SERIES	
L17	WAL MOUNTED DIRECT/INDIRECT LED	4'	UNIV.	1000 LUMEN / FOOT 3500K LED	30		ALUMINUM	WHITE	WALL MOUNTED AT 9'-0"	WD DISTRIBUTION, AWM WALL MOUNT, 80% DOWN / 20% UP DISTRIBUTION	STARTEK "BEAMD" SERIES FINELITE "EX3DI" SERIES PAL "MLP3" SERIES	YES
L18	SURFACE MOUNTED LED AREA LIGHT	16" x 15"	UNIV.	30C, 8375 LUMEN 4000K LED	104	GLASS	_____	DARK BRONZE	SURFACE CEILING	1000 mA DRIVER, TYPE III MEDIUM DISTRIBUTION, WET LOCATION LABEL	LITHONIA "TWH LED" SERIES ILP "WPLO" SERIES STONCO "WP75" SERIES	
X1	EXIT LIGHT	_____	UNIV	RED LED	5	_____	POLYCARBONATE	WHITE	FLUSH CEILING	RED LED, 6" LETTERS, SINGLE OR DOUBLE FACE UNITS AND CHEVRONS AS INDICATED, INTERNAL 90 MINUTE BATTERY BACKUP, SELF DIAGNOSTICS	LITHONIA "LQM" SERIES EMERGILITE "ELX" SERIES CHLORIDE "CLX" SERIES	
X2	EXIT LIGHT	_____	UNIV	RED LED	5	_____	POLYCARBONATE	WHITE	WALL OVER DOOR	RED LED, 6" LETTERS, SINGLE OR DOUBLE FACE UNITS AND CHEVRONS AS INDICATED, INTERNAL 90 MINUTE BATTERY BACKUP, SELF DIAGNOSTICS	LITHONIA "LQM" SERIES EMERGILITE "ELX" SERIES CHLORIDE "CLX" SERIES	
E	EMERGENCY LIGHT	_____	UNIV	2 - 1.5W LED	3	_____	POLYCARBONATE	WHITE	WALL / 7'-6"	INTERNAL 90 MINUTE BATTERY BACKUP, SELF DIAGNOSTICS	LITHONIA "ELM2 LED" SERIES EMERGILITE "EL" SERIES CHLORIDE "CLU" SERIES	

NOTES:
1. ACRYLIC PRISMATIC LENSES SHALL BE 0.125" NOMINAL MINIMUM THICKNESS.
2. ALL EXIT AND EMERGENCY FIXTURES SHALL COMPLY WITH NCSBC STANDARDS AND HAVE AUTOMATIC TESTING DEVICES.
3. LED EMERGENCY BATTERY SHALL PROVIDE 1400 MINIMUM LUMENS OUTPUT FOR 90 MINUTES MINIMUM.
4. SEE SPECIFICATIONS SECTIONS 265100 AND 265200 FOR ADDITIONAL REQUIREMENTS.
5. THE FIRST FIXTURE NAMED IN THE MANUFACTURER COLUMN IS THE BASIS OF DESIGN. OTHER FIXTURES ARE SIMILAR IN THE OPINION OF THE ARCHITECT AND ENGINEER. IF THE CONTRACTOR ELECTS TO SUBMIT A FIXTURE OTHER THAN THE BASIS OF DESIGN FIXTURE, INCLUDING ONE OF THE TWO SIMILAR FIXTURES, REQUIREMENTS OF NOTES 6 AND 7 APPLY.
6. LIGHTING FIXTURES HAVE BEEN SELECTED AND SPECIFIED TO ACHIEVE REQUIRED/DESIRED ILLUMINATION LEVELS AND OTHER CHARACTERISTICS IN THEIR RESPECTIVE AREAS. SPECIFIED FIXTURES HAVE SPECIFIC CHARACTERISTICS WHICH MAY CREATE UNIQUE ILLUMINATION RESULTS ESSENTIAL TO THE PROJECT. LIGHTING FIXTURES PROVIDED SHALL MEET THE ASTHETICS, DETAILS, AND SPECIFICATIONS STATED ABOVE AND IN THE DIVISION 26 SPECIFICATIONS, AND MOUNTING HEIGHTS AND SPACINGS SHOWN ON THE DRAWINGS. ANY DEVIATIONS FROM THE SPECIFIED FIXTURES SHALL DEEM ALL PARTIES IN THE SUPPLY CHAIN AND CONTRACTOR RESPONSIBLE FOR PROVIDING DETAILED COMPARISONS OF THE SPECIFIED FIXTURE AND THE PROPOSED FIXTURE FOR ARCHITECT AND ENGINEER REVIEW IN DETERMINING EQUALITY. PROVIDE COMPLETE POINT BY POINT ILLUMINATION STUDIES FOR ALL SUBSTITUTIONS.
7. SUBSTITUTIONS MAY BE APPROVED BY THE ARCHITECT AND ENGINEER IF THEY ARE JUDGED TO BE EQUAL TO THE SPECIFIED FIXTURES. 'EQUAL'MAY INCLUDE, AT THE SOLE DISCRETION OF THE ARCHITECT AND ENGINEER, LENS MATERIAL AND CHARACTERISTICS, COLORS, REFLECTORS, HOUSING MATERIAL AND CONFIGURATION, FINISHES, PHOTOMETRICS, EFFICIENCY, OPTIONS, FUNCTIONALITY, ETC..

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NORTH CAROLINA PROFESSIONAL SEAL 8433 ENGINEER ROBERT DEAN MCFADYEN
9.3.20

CAPE FEAR COMMUNITY COLLEGE

PROJECT TITLE
RENOVATIONS OF GALEHOUSE (A BUILDING), MCLEOD (S BUILDING), AND NATURAL SCIENCES (N BUILDING)

411 N Front Street
Wilmington, NC 28401
SCO#17-18154-01A;NCCCS# 2352

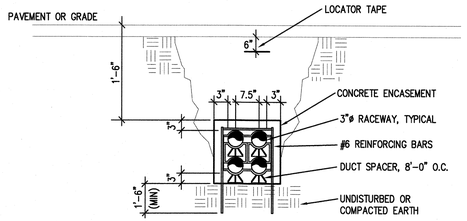
SHEET TITLE
LIGHTING FIXTURE SCHEDULE

ISSUE BLOCK

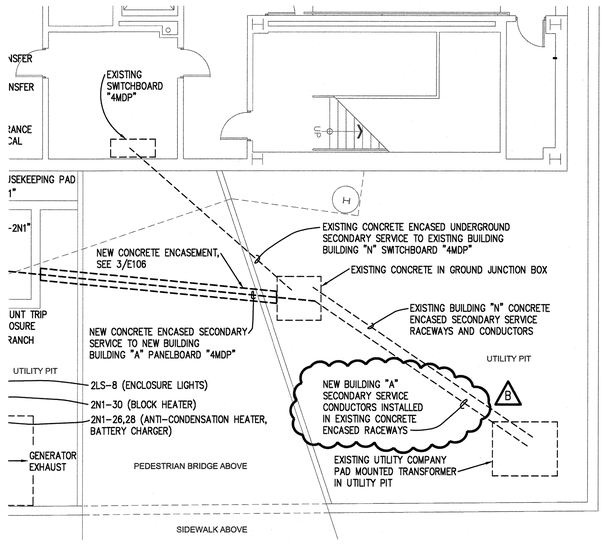
Mark	Date	Description
B	9/03/2020	ADDENDUM #2
0	8/14/2020	ISSUED FOR BID

PROJECT NO: 2018023.00
DATE: 8/14/2020
SCALE: As indicated
DRAWN BY: WPJ | PROJ MGR: RDM

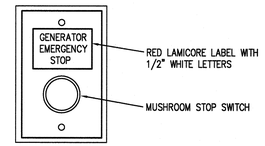
E013



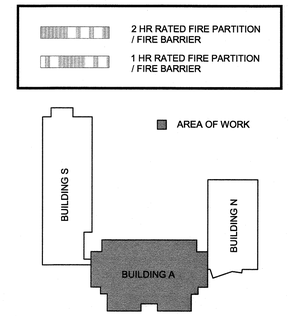
3 - Secondary Service Concrete Encased Raceway Detail
NOT TO SCALE



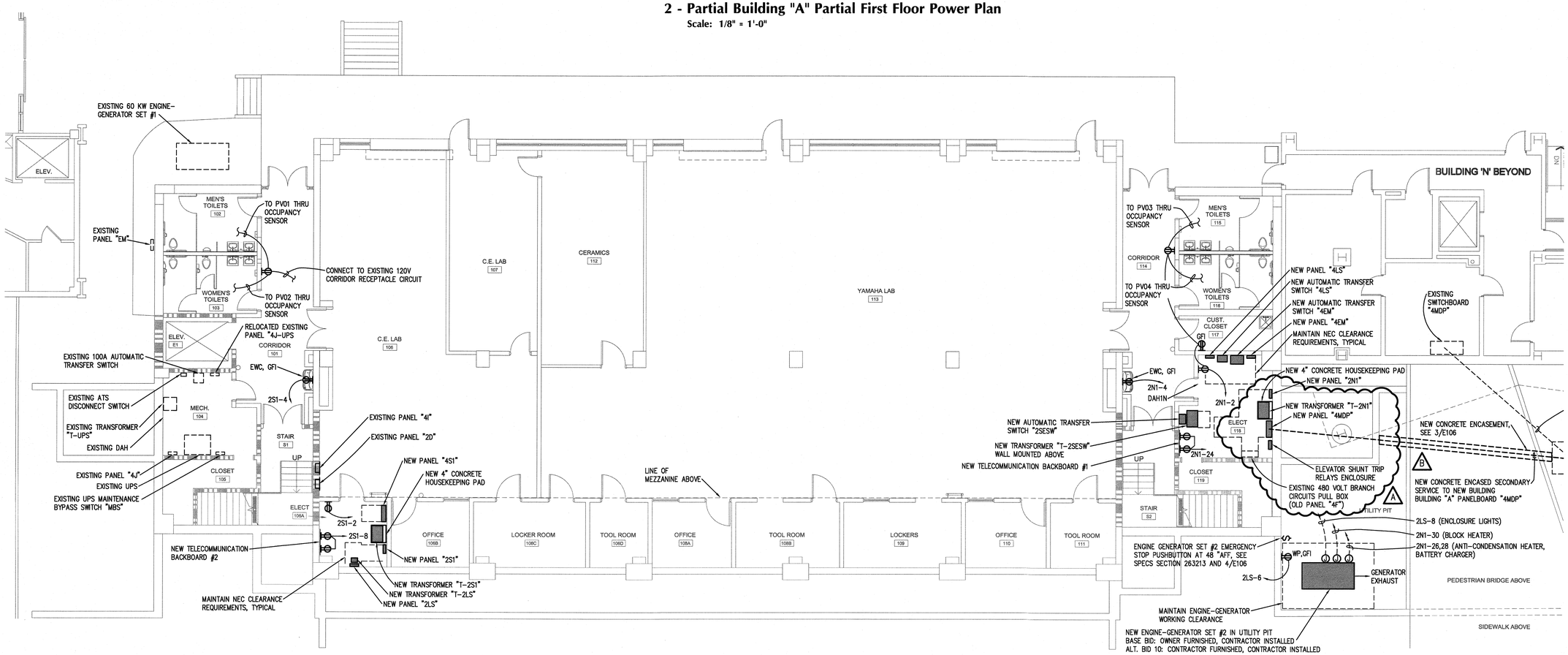
2 - Partial Building "A" Partial First Floor Power Plan
Scale: 1/8" = 1'-0"



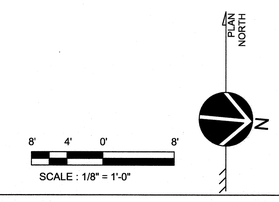
4 - E-G Set Emergency Stop Switch Detail
Not to Scale



KEY PLAN



1 - Building "A" First Floor Power Plan
Scale: 1/8" = 1'-0"



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NORTH CAROLINA PROFESSIONAL SEAL 8433 ENGINEER R. DUNCAN McFADYEN
9.3.20

CAPE FEAR COMMUNITY COLLEGE

PROJECT TITLE

RENOVATIONS OF GALEHOUSE (A BUILDING), MCLEOD (S BUILDING), AND NATURAL SCIENCES (N BUILDING)

411 N Front Street
Wilmington, NC 28401
SCO#17-18154-01A;NCCCS# 2352

SHEET TITLE

BUILDING "A" FIRST FLOOR POWER PLAN

ISSUE BLOCK

Mark	Date	Description
B	9/03/2020	ADDENDUM #2
A	8/28/2020	ADDENDUM #1
0	8/14/2020	ISSUED FOR BID

PROJECT NO: 2018023.00
DATE: 8/14/2020
SCALE: As indicated
DRAWN BY: WPJ PROJ MGR: RDM

E106

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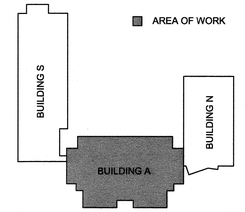
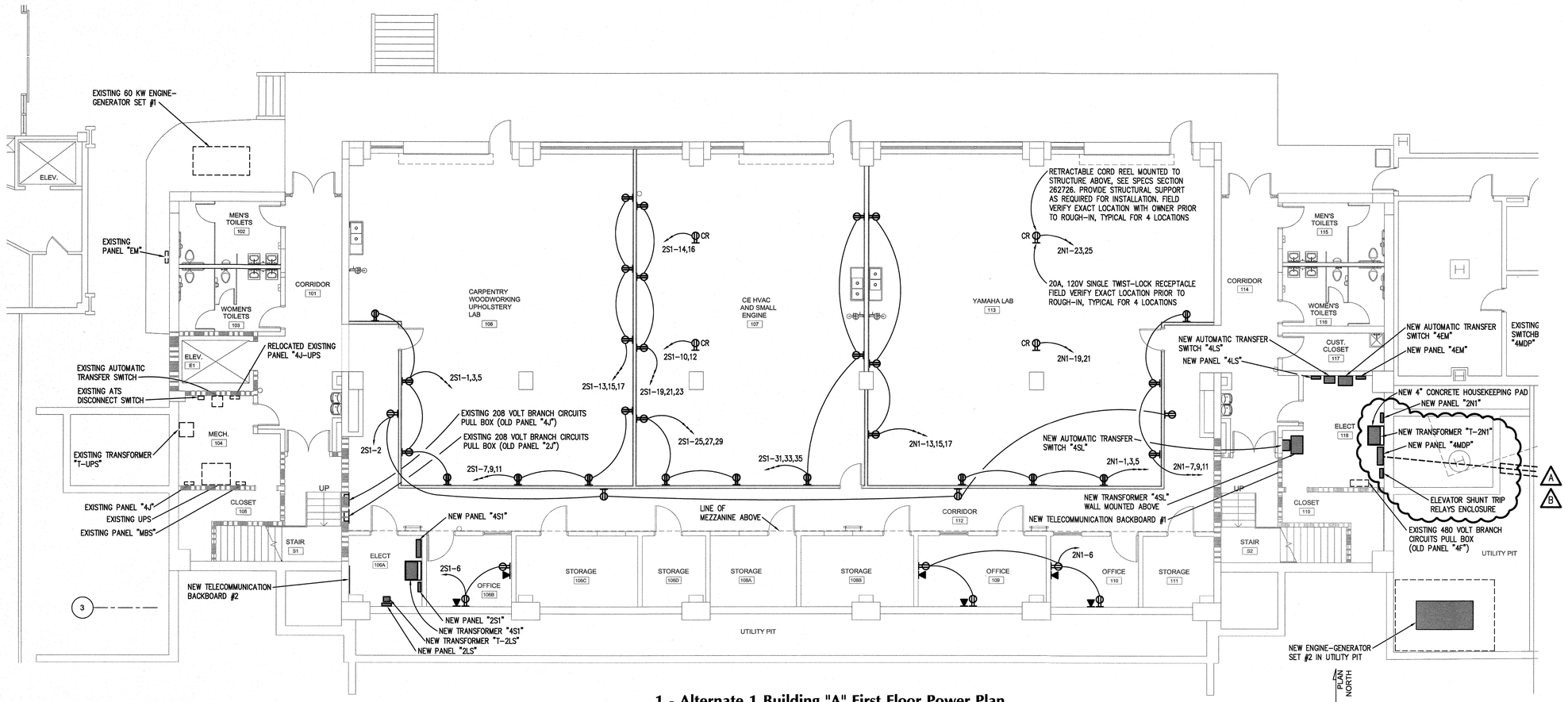
2 HR RATED FIRE PARTITION / FIRE BARRIER

1 HR RATED FIRE PARTITION / FIRE BARRIER



KEY PLAN



1 - Alternate 1 Building "A" First Floor Power Plan
Scale: 1/8" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 8433 ENGINEER RYAN DUNCAN MCFADYEN
9.3.20

CAPE FEAR COMMUNITY COLLEGE

PROJECT TITLE

RENOVATIONS OF GALEHOUSE (A BUILDING), MCLEOD (S BUILDING), AND NATURAL SCIENCES (N BUILDING)

411 N Front Street
Wilmington, NC 28401
SCO#17-18154-01A;NCCCS# 2352

SHEET TITLE

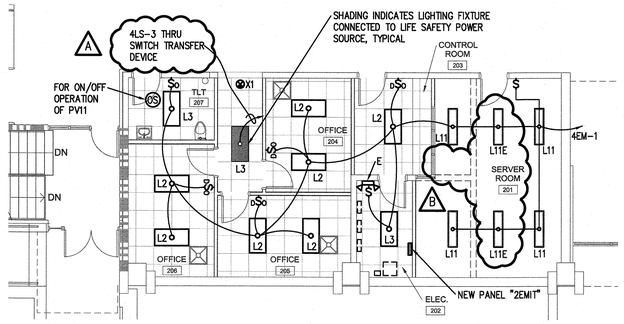
ALTERNATE 1
BUILDING "A" FIRST FLOOR POWER PLAN

ISSUE BLOCK

Mark	Date	Description
B	9/03/2020	ADDENDUM #2
A	8/28/2020	ADDENDUM #1
0	8/14/2020	ISSUED FOR BID

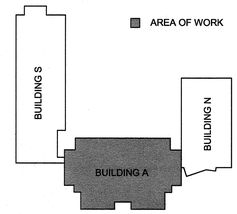
PROJECT NO:	2018023.00
DATE:	8/14/2020
SCALE:	As indicated
DRAWN BY: WPJ	PROJ MGR: RDM

E106A



3 - Alternate 2 - Building "A" Second Floor Lighting Plan

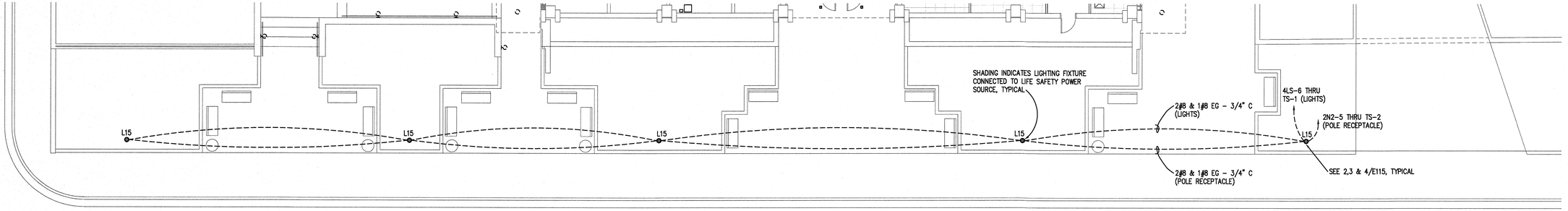
Scale: 1/8" = 1'-0"



KEY PLAN

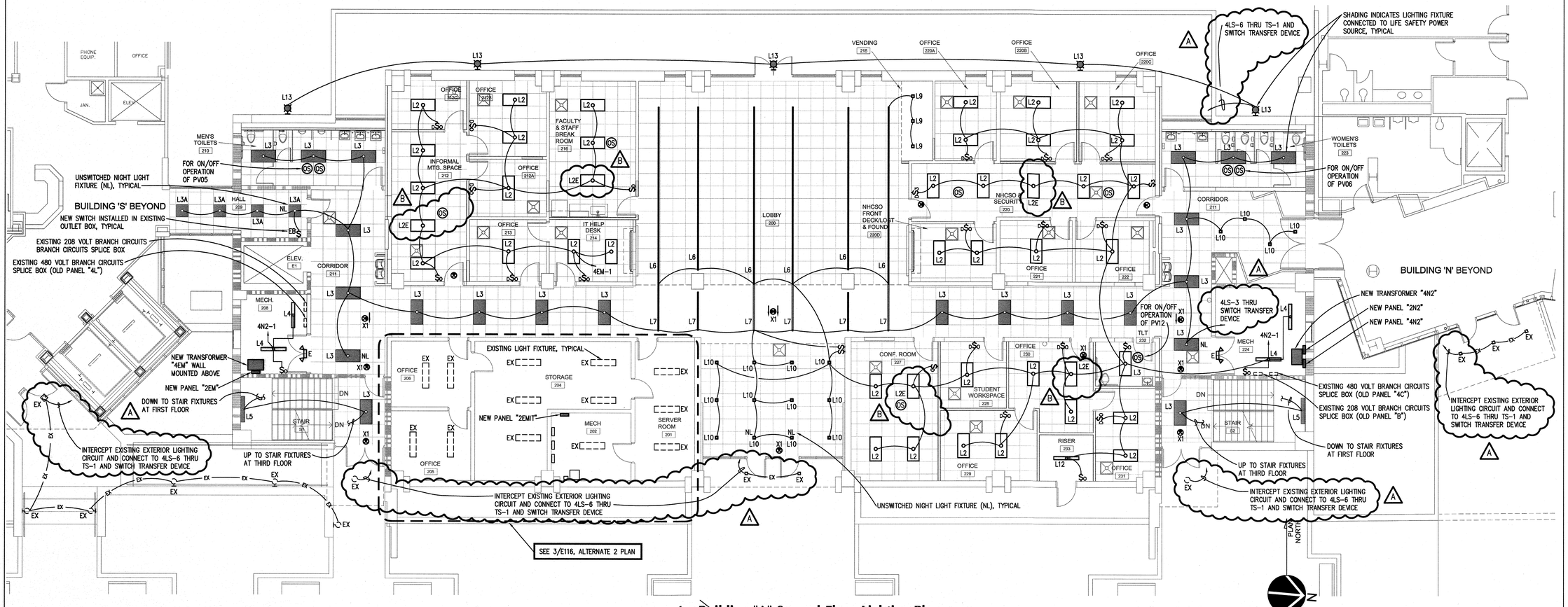
2 HR RATED FIRE PARTITION / FIRE BARRIER

1 HR RATED FIRE PARTITION / FIRE BARRIER



2 - Building "A" Second Floor Site Lighting Plan

Scale: 3/32" = 1'-0"



1 - Building "A" Second Floor Lighting Plan

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

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NORTH CAROLINA PROFESSIONAL SEAL 8433 ENGINEER RYAN DUNCAN MCFADYEN
9.3.20

CAPE FEAR COMMUNITY COLLEGE

PROJECT TITLE

RENOVATIONS OF GALEHOUSE (A BUILDING), MCLEOD (S BUILDING), AND NATURAL SCIENCES (N BUILDING)

411 N Front Street
Wilmington, NC 28401
SCO#17-18154-01A;NCCCS# 2352

SHEET TITLE

BUILDING "A" SECOND FLOOR AND SITE LIGHTING PLANS AND ALTERNATE 2 - SECOND FLOOR LIGHTING PLAN

ISSUE BLOCK

Mark	Date	Description
B	9/03/2020	ADDENDUM #2
A	8/28/2020	ADDENDUM #1
0	8/14/2020	ISSUED FOR BID

PROJECT NO: 2018023.00
DATE: 8/14/2020
SCALE: As indicated
DRAWN BY: WPJ PROJ MGR: RDM

E116

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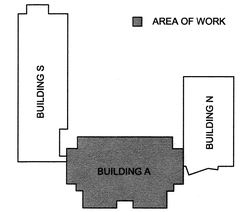
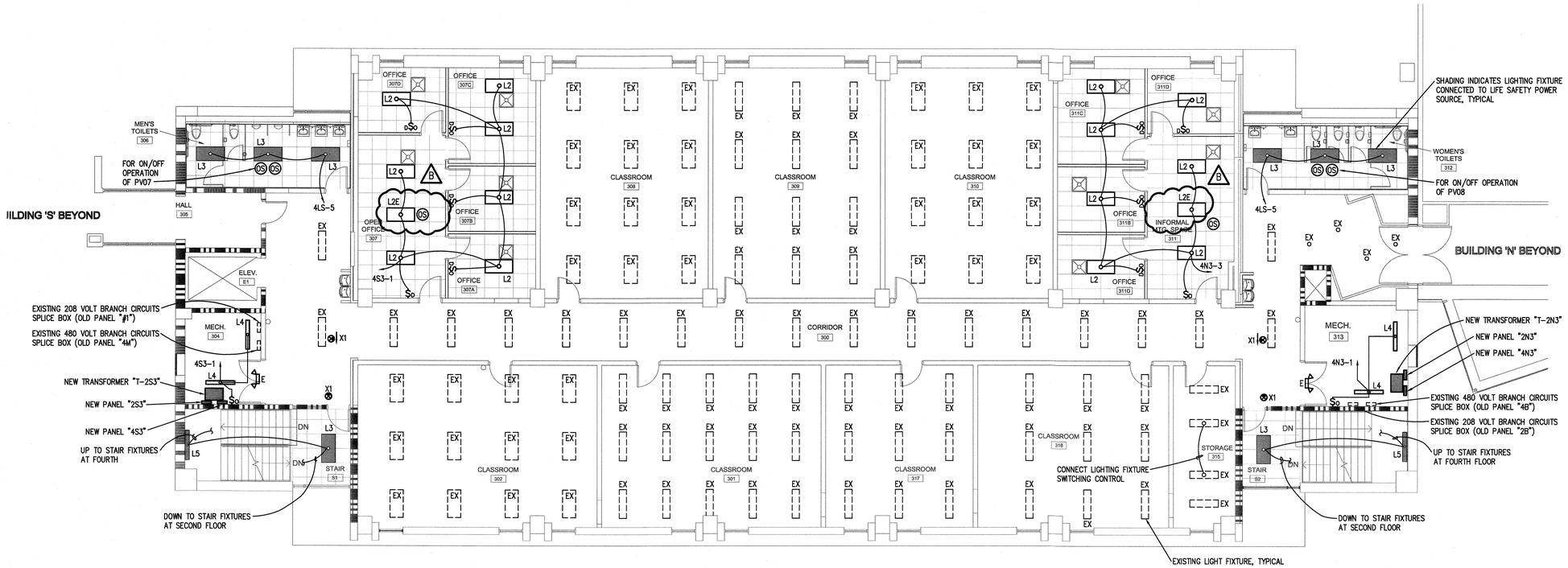
2 HR RATED FIRE PARTITION / FIRE BARRIER

1 HR RATED FIRE PARTITION / FIRE BARRIER



KEY PLAN



1 - Building "A" Third Floor Lighting Plan
Scale: 1/8" = 1'-0"

PLAN NORTH

8' 4' 0' 8'
SCALE : 1/8" = 1'-0"

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9.3.20

CAPE FEAR COMMUNITY COLLEGE

PROJECT TITLE

RENOVATIONS OF GALEHOUSE (A BUILDING), MCLEOD (S BUILDING), AND NATURAL SCIENCES (N BUILDING)

411 N Front Street
Wilmington, NC 28401
SCO#17-18154-01A;NCCCS# 2352

SHEET TITLE

BUILDING "A" THIRD FLOOR LIGHTING PLAN

ISSUE BLOCK

Mark	Date	Description
B	9/03/2020	ADDENDUM #2
0	8/14/2020	ISSUED FOR BID

PROJECT NO: 2018023.00
DATE: 8/14/2020
SCALE: As indicated
DRAWN BY: WPJ PROJ MGR: RDM

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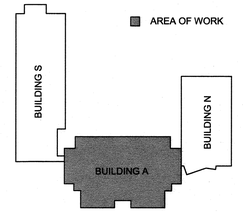
2 HR RATED FIRE PARTITION / FIRE BARRIER

1 HR RATED FIRE PARTITION / FIRE BARRIER

AREA OF WORK



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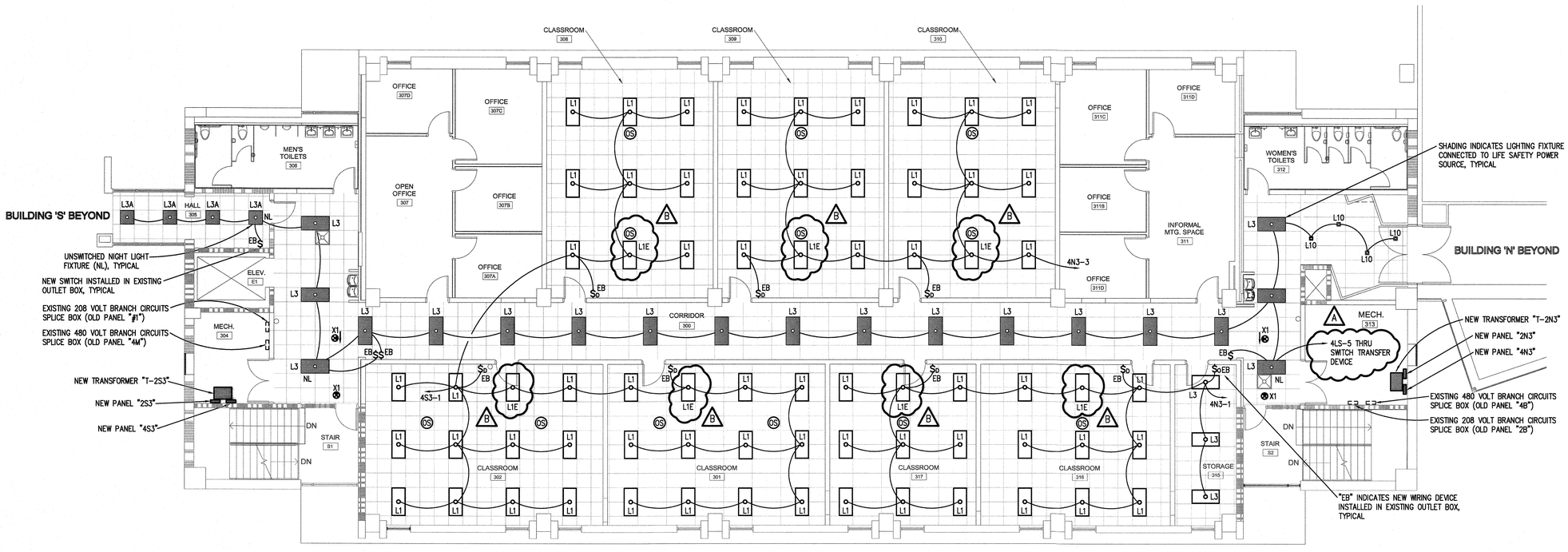

1 - Alternate 3 - Building "A" Third Floor Lighting Plan

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

PLAN NORTH

8' 4' 0' 8'

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

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NORTH CAROLINA PROFESSIONAL SEAL 8433 ENGINEER R. DUNCAN MCFADYEN

9.3.20

CAPE FEAR COMMUNITY COLLEGE

PROJECT TITLE

RENOVATIONS OF GALEHOUSE (A BUILDING), MCLEOD (S BUILDING), AND NATURAL SCIENCES (N BUILDING)

411 N Front Street
Wilmington, NC 28401
SCO#17-18154-01A;NCCCS# 2352

SHEET TITLE

ALTERNATE 3 - BUILDING "A" THIRD FLOOR LIGHTING PLAN

ISSUE BLOCK

Mark	Date	Description
B	9/03/2020	ADDENDUM #2
A	8/28/2020	ADDENDUM #1
0	8/14/2020	ISSUED FOR BID

PROJECT NO: 2018023.00
DATE: 8/14/2020
SCALE: As indicated
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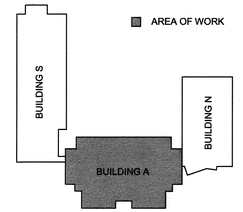
2 HR RATED FIRE PARTITION / FIRE BARRIER

1 HR RATED FIRE PARTITION / FIRE BARRIER



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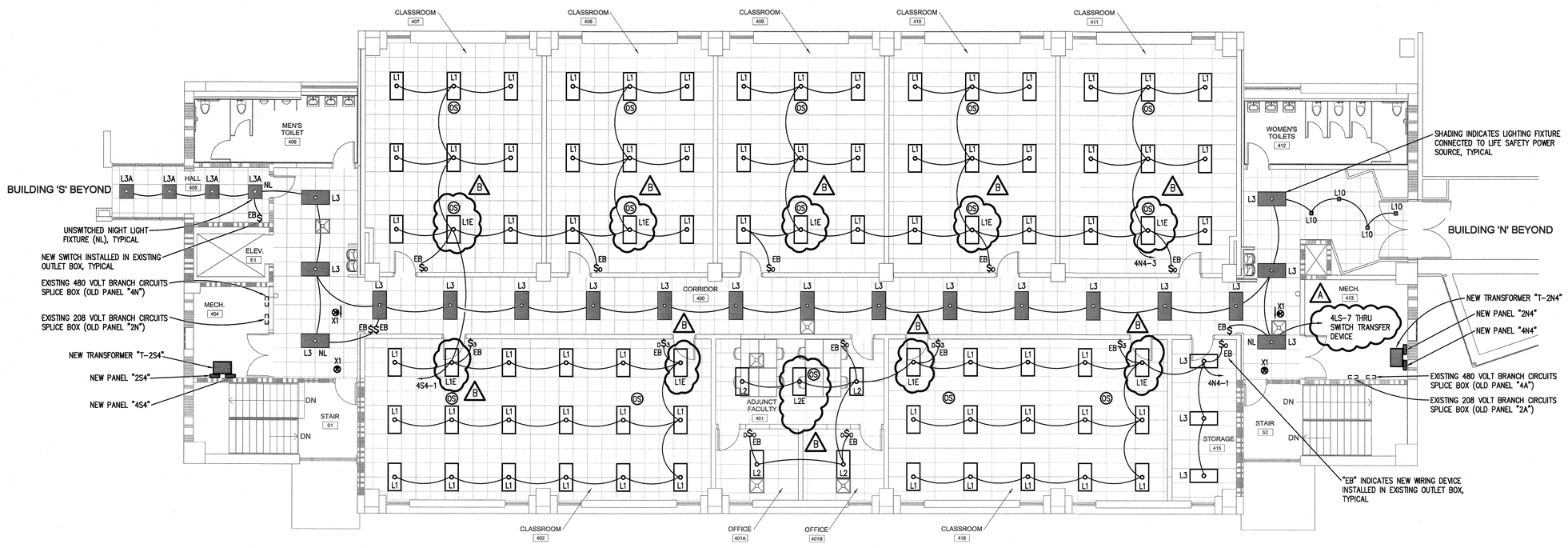

1 - Alternate 4 - Building "A" Fourth Floor Lighting Plan

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

PLAN NORTH

8' 4' 0' 8'

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

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NORTH CAROLINA PROFESSIONAL SEAL 8433 ENGINEER DUNCAN McFADYEN
9/3/20

CAPE FEAR COMMUNITY COLLEGE

PROJECT TITLE

RENOVATIONS OF GALEHOUSE (A BUILDING), MCLEOD (S BUILDING), AND NATURAL SCIENCES (N BUILDING)

411 N Front Street
Wilmington, NC 28401
SCO#17-18154-01A;NCCCS# 2352

SHEET TITLE

ALTERNATE 4 - BUILDING "A" FOURTH FLOOR LIGHTING

ISSUE BLOCK

Mark	Date	Description
AB	9/03/2020	ADDENDUM #2
A	8/28/2020	ADDENDUM #1
0	8/14/2020	ISSUED FOR BID

PROJECT NO: 2018023.00
DATE: 8/14/2020
SCALE: As indicated
DRAWN BY: WPJ | PROJ MGR: RDM

E118A