



**PROJECT:**                    **WENDELL H. MURPHY FOOTBALL CENTER  
KITCHEN RENOVATION  
NORTH CAROLINA STATE UNIVERSITY  
RALEIGH, NORTH CAROLINA**

**SCO NUMNER #:**        **24-28146-01A**

**NCSU PROJECT #:**    **202320015**

**CRA PROJECT #:**      **2308**

**DATE:**                    **08/29/25**

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**MODIFICATIONS TO THE CONTRACT DOCUMENTS FOR THE ABOVE-NAMED  
PROJECT SHALL BE MADE AS DESCRIBED BELOW AND SHALL BE INCLUDED  
IN THE BID AMOUNTS:**

**A.                    GENERAL SPECIFICATIONS**

1.        **Specification Section 092216 - Non-Structural Metal Framing:** Specification section has been attached.
2.        **Specification Section 097813 - Stainless Steel Wall Panels and Trim:** Specification section has been attached.

**B.                    ARCHITECTURAL DRAWINGS**

1.        **Sheet A4.00:** Delete Sheet A4.00 – Door schedule & Finish Legend – Base Bid and replace it with Sheet A4.00 which has updated material T01 and T02 details.
2.        **Sheet A4.00A:** Delete Sheet A4.00A – Door schedule & Finish Legend – Alternate#2 and replace it with Sheet A4.00A which has updated material T01 and T02 details.

**C.                    ELECTRICAL DRAWINGS**

1.        **Sheet E0.01:** Delete Sheet E0.01 – Electrical Legend and Notes and replace it with Sheet E0.01 which has updated specified lighting wattage in North Carolina Energy Conservation Code calculations.
2.        **Sheet E3.02:** Delete Sheet E3.02 – Level 03 - Lighting Plan – New Work and replace it with Sheet E3.02 which has:
  - Updated keynote 1 to indicate correct page number for dimmer switch bank detail reference.
  - Relocated dimmer switches to align with door changes in Defense Line 310 and Safety / Nickel 314.



- Added (2) 'FPL2' fixtures in Kitchen 318L in response to Health Department comments.
- 3. **Sheet E3.03:** Delete Sheet E3.03 – Level 03 - Lighting Photometrics and replace it with Sheet E3.03 which has updated photometric calculations for lighting changes on sheet E3.02.
- 4. **Sheet E3.06:** Delete Sheet E3.06 – Power Plan – New Work and replace it with Sheet E3.06 which has updated power layouts in Defense Line 310 and Safety / Nickel 314 to align with teaching wall changes.
- 5. **Sheet E7.01:** Delete Sheet E7.01 – Electrical Diagrams and replace it with Sheet E7.01 which has updated lighting load in load summary schedule for changes on sheet E3.02.

D. **PLUMBING DRAWINGS**

1. **Sheet P0.01:** Delete Sheet P0.01 – Plumbing Legend, Index, and Notes and replace it with Sheet P0.01 which is revised Hydro-mechanical grease interceptor specification to comply with the City of Raleigh's FOG policies. Added a hydro-mechanical grease interceptor calculation schedule to show how the grease interceptor was sized. Added the approval email from City of Raleigh's FOG programming approving the use of the grease interceptor we are showing on our plans.
2. **Sheet P1.02:** Delete Sheet P1.02 – Plumbing Drainage Plan – New Work and replace it with Sheet P1.02 which has revised the grease interceptor on our plans to comply with the City of Raleigh's FOG policies.
3. **Sheet P1.05:** Delete Sheet P1.05– Plumbing Drainage Plan – New Work and replace it with Sheet P1.05 which has changed the visibility of the indirect drainage receptor (floor sink) below the preparation sink to match sheet P4.01.
4. **Sheet P5.01:** Delete Sheet P5.01– Plumbing Details and replace it with Sheet P5.01 which has updated the grease interceptor detail to match the specification of the interceptor we are using.

E. **QUESTIONS/ISSUES**

**Question:** Is there some sort of specialty control board which provides the capabilities of individual switches without the problem of cooling dimmer switches which are all housed in 1 large, fabricated housing? Due to the way that dimmer switches function they generate quite a lot of heat.



**Answer:** The dimmer switches are 0-10V dimmers. They generate minimal heat.

**END OF ADDENDUM**

Attachments:

Specification Section 092216 - Non-Structural Metal Framing

Specification Section 097813 - Stainless Steel Wall Panels and Trim

Sheet A4.00 – Door schedule & Finish Legend – Base Bid (Addendum #2)

Sheet A4.00A – Door schedule & Finish Legend – Alternate#2 (Addendum #2)

Sheet E0.01 – Electrical Legend and Notes (Addendum #2)

Sheet E3.02 – Level 03 - Lighting Plan – New Work (Addendum #2)

Sheet E3.03 – Level 03 - Lighting Photometrics (Addendum #2)

Sheet E3.06 – Power Plan – New Work (Addendum #2)

Sheet E7.01 – Electrical Diagrams (Addendum #2)

Sheet P0.01 – Plumbing Legend, Index, and Notes (Addendum #2)

Sheet P1.02 – Plumbing Drainage Plan – New Work (Addendum #2)

Sheet P1.05 – Plumbing Drainage Plan – New Work (Addendum #2)

Sheet P5.01 – Plumbing Details (Addendum #2)

## SECTION 092216 - NON-STRUCTURAL METAL FRAMING

### 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. Non-load-bearing steel framing systems for interior partitions.
  - 2. Suspension systems for interior ceilings and soffits.
  - 3. Grid suspension systems for gypsum board ceilings.

- B. Related Requirements:

- 1. Section 054000 "Cold-Formed Metal Framing" for exterior and interior load-bearing and exterior non-load-bearing wall studs; floor joists; and roof rafters and ceiling joists.

#### 1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.

- B. Sustainable Design Submittals:

- 1. Submit documentation of recycled content, documentation indicating percentages by weight of post-consumer and pre-consumer content.

#### 1.4 INFORMATIONAL SUBMITTALS

- A. Product Certificates: For each type of code-compliance certification for studs and tracks.

#### 1.5 QUALITY ASSURANCE

- A. Code-Compliance Certification of Studs and Tracks: Provide documentation that framing members are certified according to the product-certification program of the Certified Steel Stud Association, the Steel Framing Industry Association, or the Steel Stud Manufacturers Association.

## PART 2 - PRODUCTS

### 2.1 PERFORMANCE REQUIREMENTS

- A. STC-Rated Assemblies: For STC-rated assemblies, provide materials and construction identical to those tested in assembly indicated on Drawings, according to ASTM E90 and classified according to ASTM E413 by an independent testing agency.
- B. Horizontal Deflection: For composite wall assemblies, limited to 1/360 of the wall height based on horizontal loading of 10 lbf/sq. ft. (480 Pa).

### 2.2 FRAMING SYSTEMS

- A. Framing Members, General: Comply with ASTM C754 for conditions indicated.
  - 1. Steel Sheet Components: Comply with ASTM C645 requirements for steel unless otherwise indicated.
  - 2. Protective Coating: ASTM A653/A653M, G40 (Z120), hot-dip galvanized unless otherwise indicated.
- B. Studs and Tracks: ASTM C645.
  - 1. Steel Studs and Tracks:
    - a. Minimum Base-Steel Thickness: As required by performance requirements for horizontal deflection.
    - b. Depth: As indicated on Drawings.
- C. Slip-Type Head Joints: Where indicated, provide one of the following:
  - 1. Single Long-Leg Track System: ASTM C645 top track with 2-inch- (51-mm-) deep flanges in thickness not less than indicated for studs, installed with studs friction fit into top track and with continuous bridging located within 12 inches (305 mm) of the top of studs to provide lateral bracing.
  - 2. Double-Track System: ASTM C645 top outer tracks, inside track with 2-inch- (51-mm-) deep flanges in thickness not less than indicated for studs and fastened to studs, and outer track sized to friction-fit over inner track.
  - 3. Deflection Track: Steel sheet top track manufactured to prevent cracking of finishes applied to interior partition framing resulting from deflection of structure above; in thickness not less than indicated for studs and in width to accommodate depth of studs.
    - a. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
      - 1) Steel Network, Inc. (The); VertiTrack VTD Series.
      - 2) Superior Metal Trim; Superior Flex Track System (SFT).

- D. Cold-Rolled Channel Bridging: Steel, 0.0538-inch (1.367-mm) minimum base-steel thickness, with minimum 1/2-inch- (13-mm-) wide flanges.
  - 1. Depth: 1-1/2 inches (38 mm).
  - 2. Clip Angle: Not less than 1-1/2 by 1-1/2 inches (38 by 38 mm), 0.068-inch- (1.72-mm-) thick, galvanized steel.
- E. Hat-Shaped, Rigid Furring Channels: ASTM C645.
  - 1. Minimum Base-Steel Thickness: 0.0179 inch (0.455 mm).
  - 2. Depth: 7/8 inch (22.2 mm).
- F. Resilient Furring Channels: 1/2-inch- (13-mm-) deep, steel sheet members designed to reduce sound transmission.
  - 1. Configuration: Asymmetrical or hat shaped.
- G. Cold-Rolled Furring Channels: 0.053-inch (1.34-mm) uncoated-steel thickness, with minimum 1/2-inch- (13-mm-) wide flanges.
  - 1. Depth: 3/4 inch (19 mm).
  - 2. Furring Brackets: Adjustable, corrugated-edge-type steel sheet with minimum uncoated-steel thickness of 0.0329 inch (0.8 mm).
  - 3. Tie Wire: ASTM A641/A641M, Class 1 zinc coating, soft temper, 0.062-inch- (1.59-mm-) diameter wire, or double strand of 0.048-inch- (1.21-mm-) diameter wire.

## 2.3 SUSPENSION SYSTEMS

- A. Tie Wire: ASTM A641/A641M, Class 1 zinc coating, soft temper, 0.062-inch- (1.59-mm-) diameter wire, or double strand of 0.048-inch- (1.21-mm-) diameter wire.
- B. Wire Hangers: ASTM A641/A641M, Class 1 zinc coating, soft temper, 0.16 inch (4.12 mm) in diameter.
- C. Carrying Channels (Main Runners): Cold-rolled, commercial-steel sheet with a base-steel thickness of 0.0538 inch (1.367 mm) and minimum 1/2-inch- (13-mm-) wide flanges.
  - 1. Depth: As indicated on Drawings.
- D. Furring Channels (Furring Members):
  - 1. Cold-Rolled Channels: 0.0538-inch (1.367-mm) uncoated-steel thickness, with minimum 1/2-inch- (13-mm-) wide flanges, 3/4 inch (19 mm) deep
  - 2. Steel Studs and Tracks: ASTM C645.
    - a. Minimum Base-Steel Thickness: 0.0329 inch (0.836 mm).
    - b. Depth: As indicated on Drawings.
  - 3. Hat-Shaped, Rigid Furring Channels: ASTM C645, 7/8 inch (22 mm) deep.

- a. Minimum Base-Steel Thickness: 0.0179 inch (0.455 mm).
- 4. Resilient Furring Channels: 1/2-inch- (13-mm-) deep members designed to reduce sound transmission.
  - a. Configuration: Asymmetrical or hat shaped.
- E. Grid Suspension System for Gypsum Board Ceilings: ASTM C645, direct-hung system composed of main beams and cross-furring members that interlock.
  - 1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
    - a. Armstrong World Industries, Inc.; Drywall Grid System.
    - b. Chicago Metallic Corporation; 660-C Drywall Furring System.
    - c. USG Corporation; Drywall Suspension System.

## 2.4 AUXILIARY MATERIALS

- A. General: Provide auxiliary materials that comply with referenced installation standards.
  - 1. Fasteners for Steel Framing: Of type, material, size, corrosion resistance, holding power, and other properties required to fasten steel members to substrates.
- B. Isolation Strip at Exterior Walls: Provide one of the following:
  - 1. Asphalt-Saturated Organic Felt: ASTM D226/D226M, Type I (No. 15 asphalt felt), nonperforated.
  - 2. Foam Gasket: Adhesive-backed, closed-cell vinyl foam strips that allow fastener penetration without foam displacement, 1/8 inch (3.2 mm) thick, in width to suit steel stud size.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine areas and substrates, with Installer present, and including welded hollow-metal frames, cast-in anchors, and structural framing, for compliance with requirements and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Suspended Assemblies: Coordinate installation of suspension systems with installation of overhead structure to ensure that inserts and other provisions for anchorages to building

structure have been installed to receive hangers at spacing required to support the Work and that hangers will develop their full strength.

1. Furnish concrete inserts and other devices indicated to other trades for installation in advance of time needed for coordination and construction.

### 3.3 INSTALLATION, GENERAL

#### A. Installation Standard: ASTM C754.

1. Gypsum Board Assemblies: Also comply with requirements in ASTM C840 that apply to framing installation.

- B. Install framing and accessories plumb, square, and true to line, with connections securely fastened.
- C. Install supplementary framing, and blocking to support fixtures, equipment services, heavy trim, grab bars, toilet accessories, furnishings, or similar construction.
- D. Install bracing at terminations in assemblies.
- E. Do not bridge building control and expansion joints with non-load-bearing steel framing members. Frame both sides of joints independently.

### 3.4 INSTALLING FRAMED ASSEMBLIES

#### A. Install framing system components according to spacings indicated, but not greater than spacings required by referenced installation standards for assembly types.

1. Single-Layer Application: 16 inches (406 mm) o.c. unless otherwise indicated.
2. Multilayer Application: 16 inches (406 mm) o.c. unless otherwise indicated.
3. Tile Backing Panels: 16 inches (406 mm) o.c. unless otherwise indicated.

#### B. Where studs are installed directly against exterior masonry walls or dissimilar metals at exterior walls, install isolation strip between studs and exterior wall.

#### C. Install studs so flanges within framing system point in same direction.

#### D. Install tracks at floors and overhead supports. Extend framing full height to structural supports or substrates above suspended ceilings except where partitions are indicated to terminate at suspended ceilings. Continue framing around ducts that penetrate partitions above ceiling.

1. Slip-Type Head Joints: Where framing extends to overhead structural supports, install to produce joints at tops of framing systems that prevent axial loading of finished assemblies.
2. Door Openings: Screw vertical studs at jambs to jamb anchor clips on door frames; install track section (for cripple studs) at head and secure to jamb studs.



- a. Install two studs at each jamb unless otherwise indicated.
    - b. Install cripple studs at head adjacent to each jamb stud, with a minimum 1/2-inch (13-mm) clearance from jamb stud to allow for installation of control joint in finished assembly.
    - c. Extend jamb studs through suspended ceilings and attach to underside of overhead structure.
  3. Other Framed Openings: Frame openings other than door openings the same as required for door openings unless otherwise indicated. Install framing below sills of openings to match framing required above door heads.
  4. Sound-Rated Partitions: Install framing to comply with sound-rated assembly indicated.
- E. Direct Furring:
1. Screw to wood framing.
  2. Attach to concrete or masonry with stub nails, screws designed for masonry attachment, or powder-driven fasteners spaced 24 inches (610 mm) o.c.
- F. Z-Shaped Furring Members:
1. Erect insulation, specified in Section 072100 "Thermal Insulation," vertically and hold in place with Z-shaped furring members spaced 24 inches (610 mm) o.c.
  2. Except at exterior corners, securely attach narrow flanges of furring members to wall with concrete stub nails, screws designed for masonry attachment, or powder-driven fasteners spaced 24 inches (610 mm) o.c.
  3. At exterior corners, attach wide flange of furring members to wall with short flange extending beyond corner; on adjacent wall surface, screw-attach short flange of furring channel to web of attached channel. At interior corners, space second member no more than 12 inches (305 mm) from corner and cut insulation to fit.
- G. Installation Tolerance: Install each framing member so fastening surfaces vary not more than 1/8 inch (3 mm) from the plane formed by faces of adjacent framing.

### 3.5 INSTALLING CEILING SUSPENSION SYSTEMS

- A. Install suspension system components according to spacings indicated, but not greater than spacings required by referenced installation standards for assembly types.
1. Hangers: 48 inches (1219 mm) o.c.
  2. Carrying Channels (Main Runners): 48 inches (1219 mm) o.c.
  3. Furring Channels (Furring Members): 16 inches (406 mm) o.c.
- B. Isolate suspension systems from building structure where they abut or are penetrated by building structure to prevent transfer of loading imposed by structural movement.
- C. Suspend hangers from building structure as follows:
1. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structural or suspension system.

- a. Splay hangers only where required to miss obstructions and offset resulting horizontal forces by bracing, countersplaying, or other equally effective means.
2. Where width of ducts and other construction within ceiling plenum produces hanger spacings that interfere with locations of hangers required to support standard suspension system members, install supplemental suspension members and hangers in the form of trapezes or equivalent devices.
  - a. Size supplemental suspension members and hangers to support ceiling loads within performance limits established by referenced installation standards.
3. Wire Hangers: Secure by looping and wire tying, either directly to structures or to inserts, eye screws, or other devices and fasteners that are secure and appropriate for substrate, and in a manner that will not cause hangers to deteriorate or otherwise fail.
4. Flat Hangers: Secure to structure, including intermediate framing members, by attaching to inserts, eye screws, or other devices and fasteners that are secure and appropriate for structure and hanger, and in a manner that will not cause hangers to deteriorate or otherwise fail.
5. Do not attach hangers to steel roof deck.
6. Do not attach hangers to permanent metal forms. Furnish cast-in-place hanger inserts that extend through forms.
7. Do not attach hangers to rolled-in hanger tabs of composite steel floor deck.
8. Do not connect or suspend steel framing from ducts, pipes, or conduit.
- D. Grid Suspension Systems: Attach perimeter wall track or angle where grid suspension systems meet vertical surfaces. Mechanically join main beam and cross-furring members to each other and butt-cut to fit into wall track.
- E. Installation Tolerances: Install suspension systems that are level to within 1/8 inch in 12 feet (3 mm in 3.6 m) measured lengthwise on each member that will receive finishes and transversely between parallel members that will receive finishes.

END OF SECTION 092216

SECTION 097813 - STAINLESS STEEL WALL PANELS AND TRIM

PART 1 – GENERAL

1. SUMMARY
  - A. Wall panels for wall protection
2. SECTION INCLUDES
  - A. Stainless Steel Wall Panels
3. SUBMITTALS
  - A. Product Data: Manufacturer's printed product data for each type of stainless steel wall panel systems specified.
  - B. Detail Drawings: Mounting details with the appropriate adhesives for specific project substrates.
  - C. Manufacturer's Installation Instruction: Printed installation instructions for stainless steel wall panels.
4. DELIVERY, STORAGE AND HANDLING
  - A. Deliver materials in unopened factory packaging to the jobsite
  - B. Inspect materials at delivery to assure that specified products have been received.
  - C. Store in original packaging in a climate controlled location away from direct sunlight.
5. PROJECT CONDITIONS
  - A. Environmental Requirements: Products must be installed in an interior climate controlled environment.
6. WARRANTY
  - A. Standard IPC Limited Lifetime Warranty against material and manufacturing defects.

PART 2 – PRODUCTS

- 2.01 MANUFACTURER
  - A. Basis-Of-Design Product: Inpro Corporation, IPC Door and Wall Protection Systems
    - a. JTC Metals
    - b. Allied Stainless
- 2.02 MANUFACTURED UNITS
  - A. Wall Panels
    1. Stainless Steel Wall Panels. Provide stainless steel wall panel systems that include panels, top cap, divider trim, inside and outside corner trim.
      - a. Panel Size
        - 1) 4' (122cm) x 8' (244cm)
        - a) 4' (122cm) x 10' (305cm).
      - b. Panel Thickness
        - 1) 20-gauge Stainless Steel - Type 304 (type 304 conforms to NSF Standard 51)
  - B. Stainless Steel Inside and Outside Corner Trim

- a. 1" (25mm) x 1" (25mm), 24 gauge. 120" (3048mm) Height. Receives edge of adjacent panel. Stainless Steel - Type 304 (type 304 conforms to NSF Standard 51). Attachment: Adhesive mount
  - C. Stainless Steel Top Caps
    - a. 1" (25mm) sightline, 24 gauge. 120" (3048mm) Length. Receives top edge of panels. Stainless Steel - Type 304 (type 304 conforms to NSF Standard 51). Attachment: Adhesive mount.
  - D. Stainless Steel Divider Trim
    - a. 1" (25mm) sightline, 24 gauge. 120" (3048mm) Height. Receives edge of adjacent panel. Stainless Steel - Type 304 (type 304 conforms to NSF Standard 51). Attachment: Adhesive mount
- 2.03 MATERIALS
  - A. Stainless Steel
    - 1. Wall Panels
      - a. Thickness - 20 gauge
      - b. Type 304 (conforms to NSF Standard 51)
    - 2. Top Cap, Divider, Inside and Outside Corner Trim
      - a. Thickness - 24 gauge
      - b. Type 304 (conforms to NSF Standard 51)
- 2.04 COMPONENTS
  - A. Attachment
    - 1. Panels
      - a. Panels shall be adhered with field applied heavy duty adhesive and foam tape.
    - 2. Trim Pieces
      - a. Trim Pieces shall be adhered with field applied heavy duty adhesive.
- 2.05 FINISH
  - A. Stainless Steel: Panels and corner guards shall have a No. 4 satin finish.

## PART 3 – EXECUTION

- 3.01 EXAMINATION
  - A. Examine areas and conditions in which the wall panel systems will be installed.
    - 1. Complete all finishing operations, including painting, before beginning installation of wall panel system materials.
  - B. Wall surface shall be dry and free from dirt, grease and loose paint.
- 3.02 PREPARATION
  - A. Surface Prep: Prior to installation, clean the substrate to remove dust, debris and loose particles. Ensure the substrate is sound and per project plans.
  - B. Acclimate product in temperatures between 65°F and 80°F [18°-27°C] and a humidity level less than 80% 24 hours in advance of installation.
  - C. The area of installation must temperature and humidity controlled for at least 48 hours after installation.

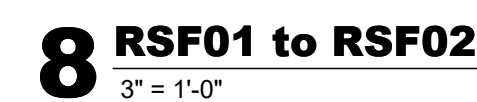
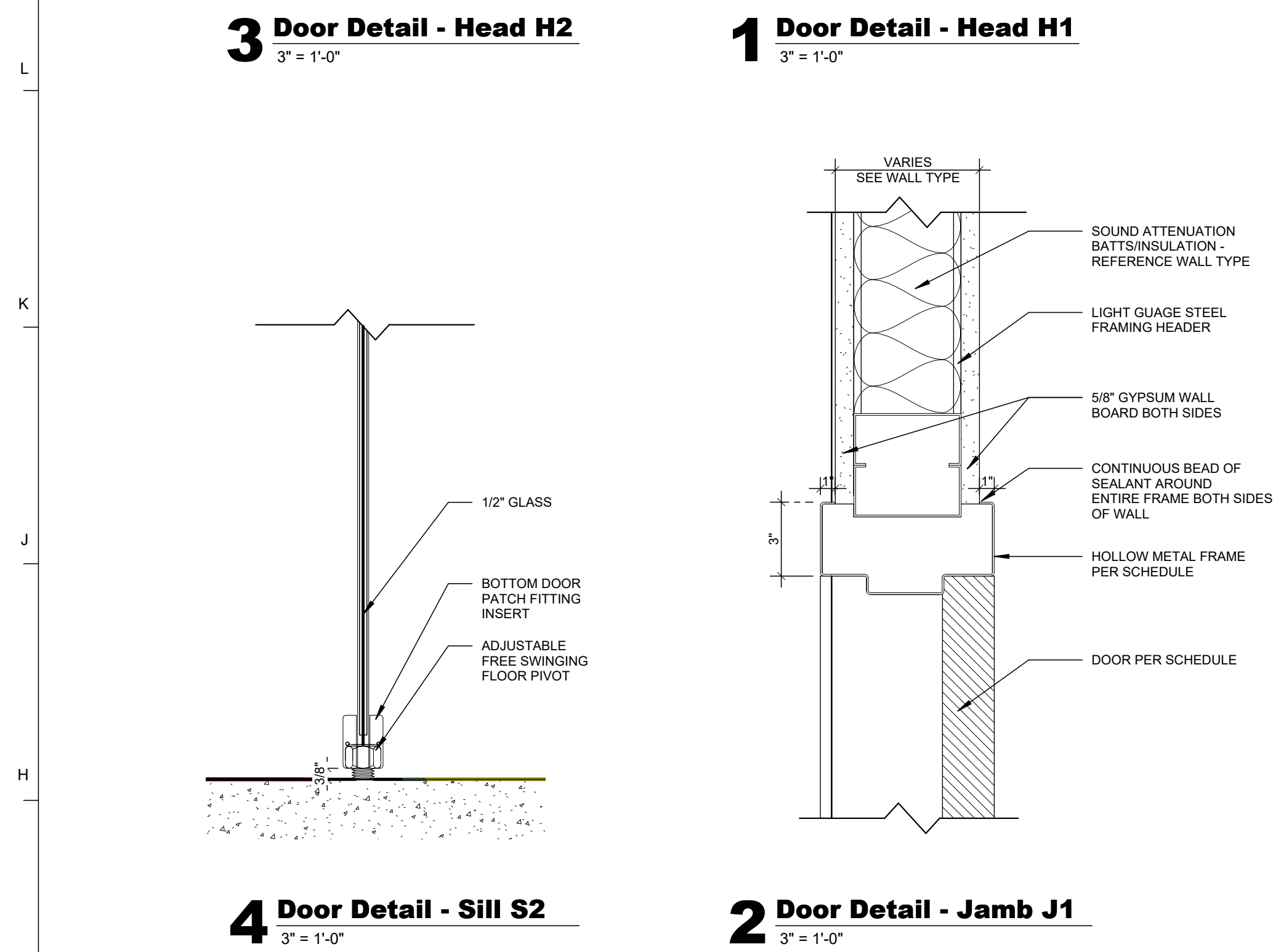
3.03 INSTALLATION

- A. General: Locate the wall panels as indicated on the approved detail drawing for the appropriate substrate and in compliance with the installation instructions. Install wall panels level and plumb at the height indicated on the drawings.

3.04 CLEANING

- A. At completion of the installation, clean surface in accordance with the IPC clean-up and maintenance instructions.





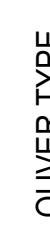
**SSF01** SOLID SURFACING - 9221SP  
MER: Wilsonart or a comparable product of one of the following:  
 a. Aristech Surfaces, LLC; Avonite Surfaces.,  
 b. E.I. DuPont de Nemours, Inc.,  
 or see specification sheet for more manufacturers.  
COLOR/FINISH: Luminous White  
FINISH BOARD LABEL NAME: Window Counter, Entrance Wall

**WB01** WALL BASE  
**MFR:** Tarkett Millwork Base System or a comparable product of one of the following:  
 a. Allstate Rubber Corp.,  
 b. Burke Mercer Flooring Products, Division of Burke Industries Inc.,  
 c. Johnsonite; A Tarkett Company.  
 d. Roppe Corporation; USA  
**STYLE:** Mandalay Profile  
**COLOR/FINISH:** White  
**SIZE:** 2 5" MW-XX-H25  
**FINISH BOARD LABEL NAME:** Dining

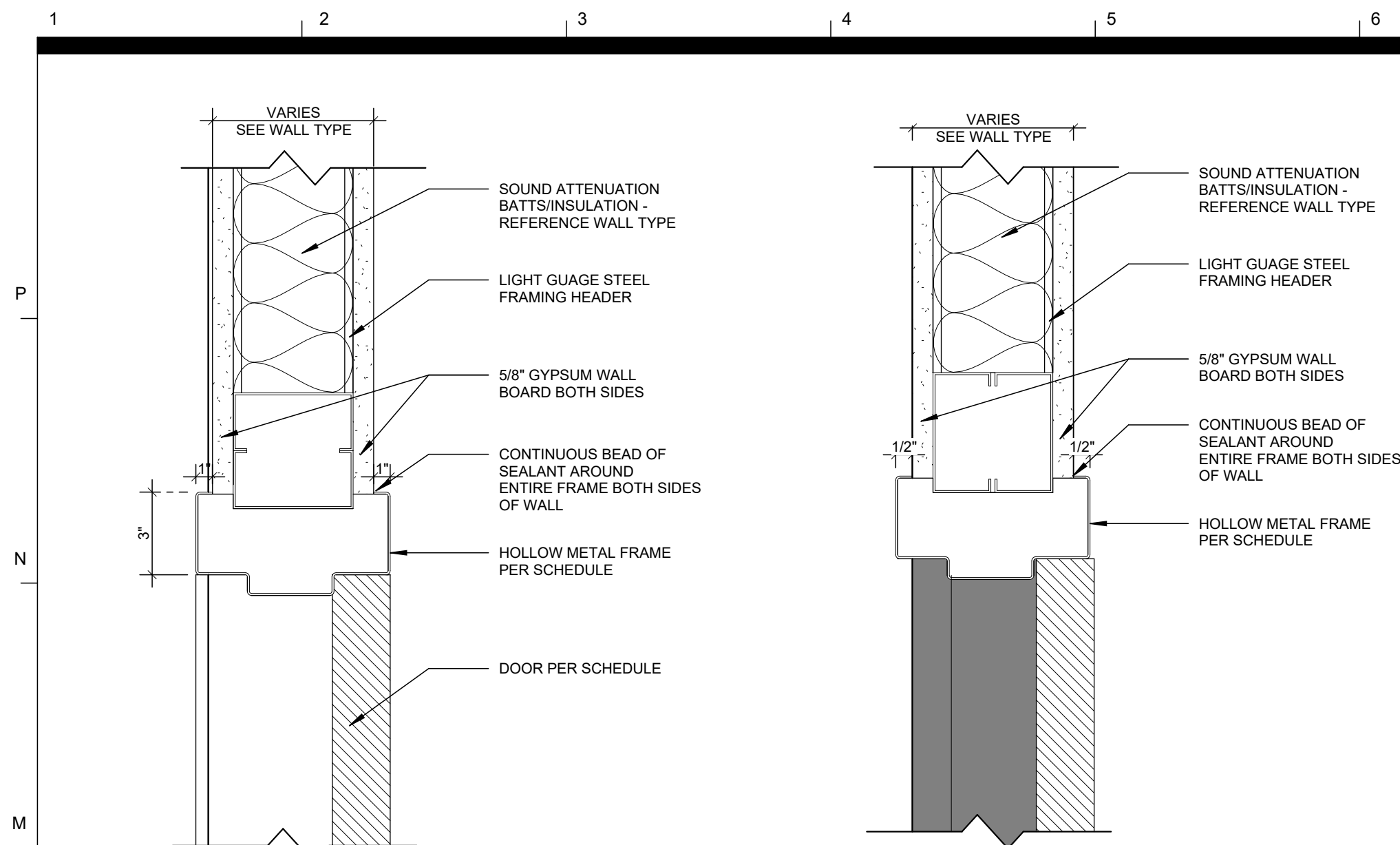
**T02** **TILE**  
**MFR:** Laminam, or a comparable product of one of the following:  
 a. American Marazzi Tile, Inc.  
 b. American Olean; Div. of Dal-Tile International, Inc.  
 c. Dal-Tile International, Inc.  
**STYLE:** Pietra di Savoia  
**COLOR/FINISH:** Grigia, Bush Hammered  
**SIZE:** 1000mm x 3000mm x 1/8" thickness

**ACT04** ACOUSTIC CEILING PANEL  
 MFR: Armstrong Optima Tegular or a comparable product of one of the following:  
 a. Celotex Corporation; Architectural Ceilings Marketing Dept.  
 b. USG Interiors, Inc.  
 STYLE: Optima Tegular  
 COLOR/FINISH: White  
 SIZE: 24" x 24"  
 FINISH BOARD LABEL NAME: Position Room Ceiling  
 NOTES: 90 NRC/26 CAC 91/6" Suprafine grid

Finish Schedule						
Number	Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish	Comments
Level 03						
312	CORNER	CARPET TILE	WALL BASE	PAINT	2x2x4" ACOUSTICAL TILE CEILING WHITE	
312A	TIGHT ENDS	CARPET TILE	WALL BASE	PAINT	2x2x4" ACOUSTICAL TILE CEILING WHITE	
314	CORRIDOR	CARPET TILE	WALL BASE	PAINT	2x2x4" ACOUSTICAL TILE CEILING WHITE	
314A	SAFETY NICKEL	CARPET TILE	WALL BASE	PAINT	2x2x4" ACOUSTICAL TILE CEILING WHITE	
316	RUNNING BACK	CARPET TILE	WALL BASE	PAINT	2x2x4" ACOUSTICAL TILE CEILING WHITE	
310A	RECEIVER	CARPET TILE	WALL BASE	PAINT	2x2x4" ACOUSTICAL TILE CEILING WHITE	
310	DEFENSE LINE	CARPET TILE	WALL BASE	PAINT	2x2x4" ACOUSTICAL TILE CEILING WHITE	
318H	STORAGE	EPOXY	EPOXY BASE	PAINT	2x2x4" ACOUSTICAL TILE CEILING WHITE	
318L	KITCHEN	EPOXY	EPOXY BASE	PAINT	2x2x4" ACOUSTICAL TILE CEILING WHITE	
318E	DINING	RSF01+RSF02	WALL BASE	PAINT	ACOUSTIC CEILING PANEL + GYPSUM BOARD	
318J	CORRIDOR	CARPET TILE	WALL BASE	PAINT	2x2x4" ACOUSTICAL TILE CEILING WHITE	
318	CORNER	CARPET TILE	WALL BASE	PAINT	2x2x4" ACOUSTICAL TILE CEILING WHITE	

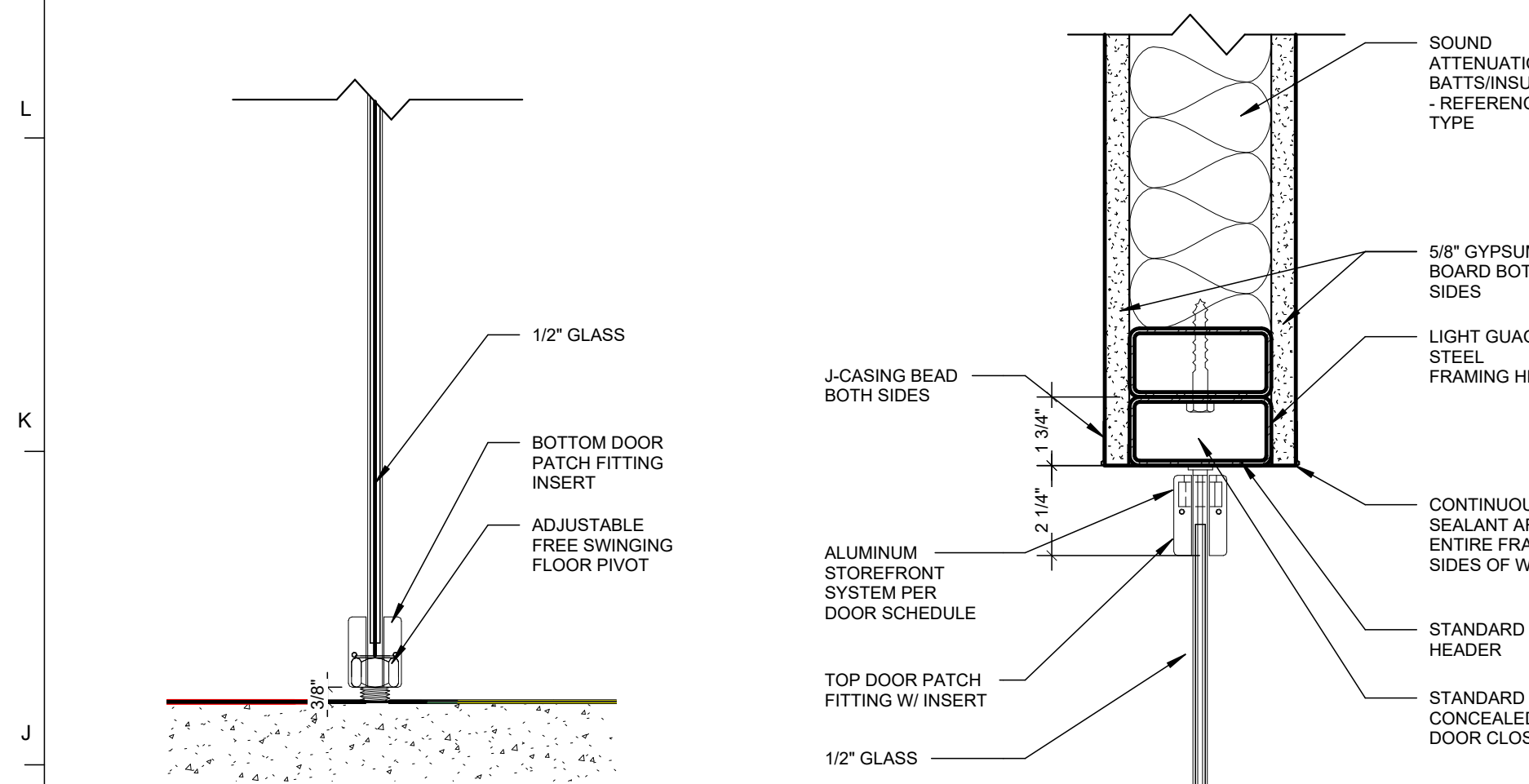






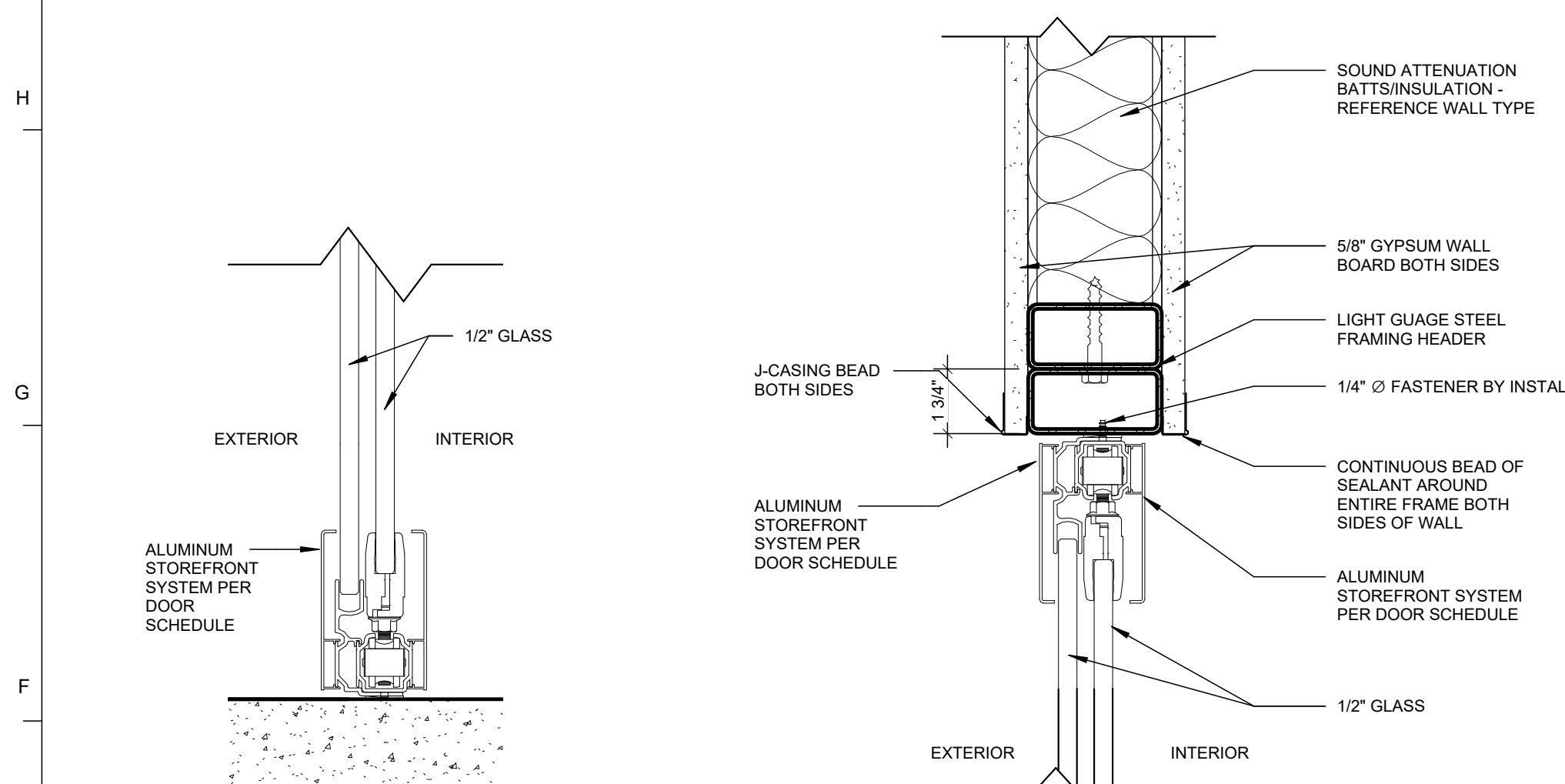
**2 Door Detail - Jamb J1-**  
3" = 1'-0"

**1 Door Detail - Head H1-**  
3" = 1'-0"



**4 Door Detail - Sill S2-**  
3" = 1'-0"

**3 Door Detail - Head H2-**  
3" = 1'-0"



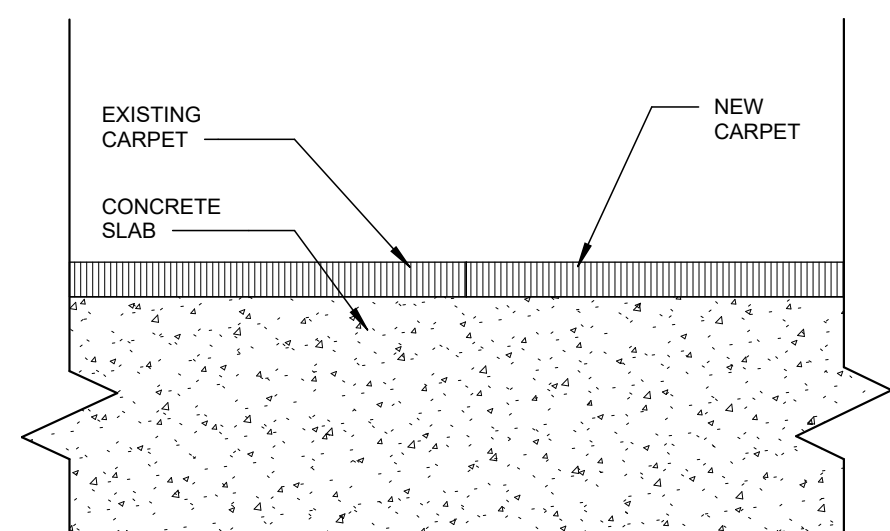
**6 Door Detail - Sill S3 - Alternate#2**  
3" = 1'-0"

**5 Door Detail - Head H3 - Alternate#2**  
3" = 1'-0"

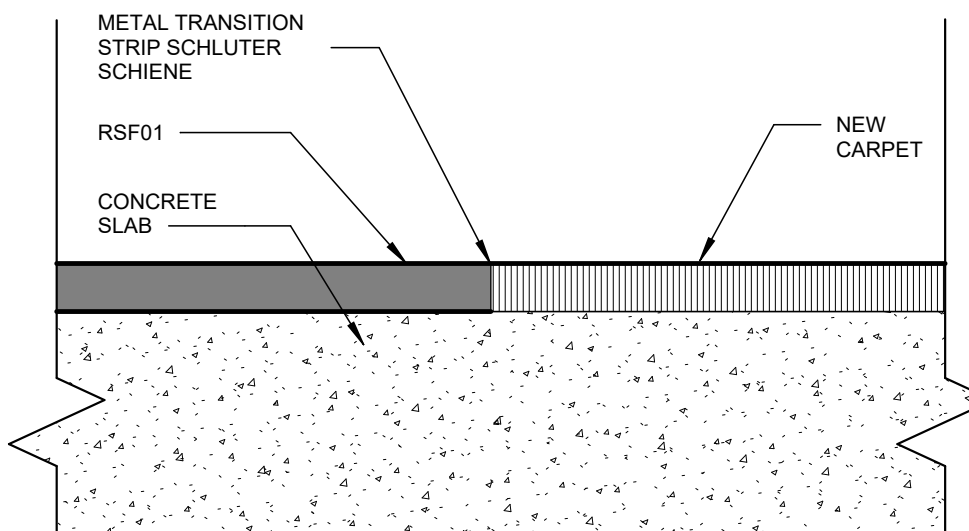
DOOR SCHEDULE - ALTERNATE#1																	
REVISION	DOOR NUMBER	WIDTH	HEIGHT	DOOR TYPE	FRAME TYPE	DOOR MATERIAL	FRAME FINISH	DOOR RATING	DETAILS			CONTROLS				COMMENTS	
									HEAD	JAMB	SILL	GLAZING TYPE	POWER OPERATOR	HOLD OPEN	HARDWARE		SECURITY RATING
Level 03																	
-	308	3'-0"	7'-0"	A	HM-1	SC Wood	PTD	-	-	-	-	-	1		Card Reader		
-	310	3'-0"	7'-0"	G	HM-1	SC Wood	PTD	-	H1	J1	-	-	-	2		Card Reader+Lite Kit	
-	310A	3'-0"	7'-0"	G	HM-1	SC Wood	PTD	-	H1	J1	-	-	-	2		Card Reader+Lite Kit	
-	312	3'-0"	7'-0"	G	HM-1	SC Wood	PTD	-	H1	J1	-	-	-	2		Card Reader+Lite Kit	
-	314	3'-0"	7'-0"	G	HM-1	SC Wood	PTD	-	H1	J1	-	-	-	2		Card Reader+Lite Kit	
-	316	3'-0"	7'-0"	G	HM-1	SC Wood	PTD	-	H1	J1	-	-	-	2		Card Reader+Lite Kit	
-	318A	3'-0"	7'-0"	G	HM-1	SC Wood	PTD	-	H1	J1	-	-	-	2		Card Reader+Lite Kit	
-	318B	3'-0"	8'-2"	E	AL-3	Glass	-	H3	S3	-	-	-	-	7		Existing Door	
-	318C	3'-0"	8'-2"	E	AL-2	Glass	-	H3	S3	-	-	-	-	7		Existing Door	
-	318D	3'-0"	7'-0"	-	-	-	-	-	-	-	-	-	-	-		Existing Door	
-	318E	6'-0"	7'-6"	F	HM-4	SC Wood	PTD	-	H1	J1	-	-	-	3			
-	318F	6'-0"	7'-6"	F	HM-4	SC Wood	PTD	-	H1	J1	-	-	-	3			
-	318G	4'-0"	7'-0"	B	HM-2	-	PTD	-	-	-	-	-	-	-		Impact Traffic Door	
-	318H	3'-0"	7'-0"	A	HM-1	SC Wood	PTD	-	H1	J1	-	-	-	4			
-	318J	1'-8"	7'-0"	D	HM-3	Hollow Metal	PTD	-	H1	J1	-	-	-	5			
-	318K	3'-0"	8'-2"	C	AL-1	Glass	-	H2	S2	-	-	-	-	6			
-	318L	3'-0"	8'-2"	C	AL-1	Glass	-	H2	S2	-	-	-	-	6			
-	318M	3'-0"	7'-4"	-	-	-	-	H1	J1	-	-	-	-	-		Existing Door	

Finish Schedule					
Number	Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish
Level 03					
312	CORNER	CARPET TILE	WALL BASE	PAINT	24"x24" ACOUSTICAL TILE CEILING WHITE
318A	TIGHT END	CARPET TILE	WALL BASE	PAINT	24"x24" ACOUSTICAL TILE CEILING WHITE
314A	CORRIDOR	CARPET TILE	WALL BASE	PAINT	24"x24" ACOUSTICAL TILE CEILING WHITE
314	SAFETY NICKEL	CARPET TILE	WALL BASE	PAINT	24"x24" ACOUSTICAL TILE CEILING WHITE
316	RUNNING BACK	CARPET TILE	WALL BASE	PAINT	24"x24" ACOUSTICAL TILE CEILING WHITE
310A	RECEIVER	CARPET TILE	WALL BASE	PAINT	24"x24" ACOUSTICAL TILE CEILING WHITE
310	DEFENSE LINE	CARPET TILE	WALL BASE	PAINT	24"x24" ACOUSTICAL TILE CEILING WHITE
318H	STORAGE	EPOXY	EPOXY BASE	FRP	24"x24" ACOUSTICAL TILE CEILING
318L	KITCHEN	EPOXY	EPOXY BASE	FRP	24"x24" ACOUSTICAL TILE CEILING
318E	DINING	RSF01/RSF02	WALL BASE	PAINT	ACOUSTIC CEILING PANEL + GYPSUM BOARD
318J	CORRIDOR	CARPET TILE	WALL BASE	PAINT	24"x24" ACOUSTICAL TILE CEILING WHITE
318	CORRIDOR	RSF01	WALL BASE	PAINT	24"x24" ACOUSTICAL TILE CEILING WHITE

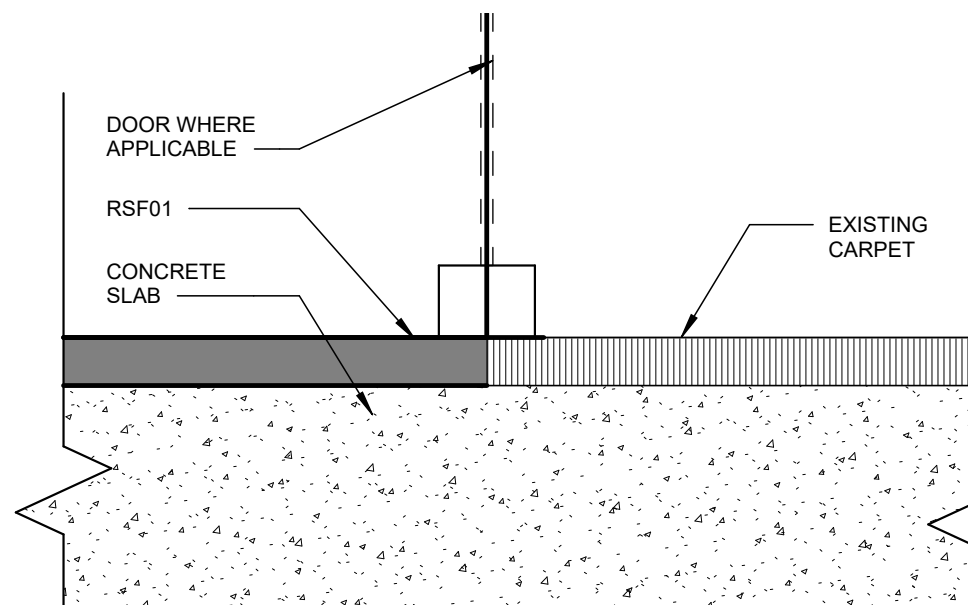
## FLOORING TRANSITION



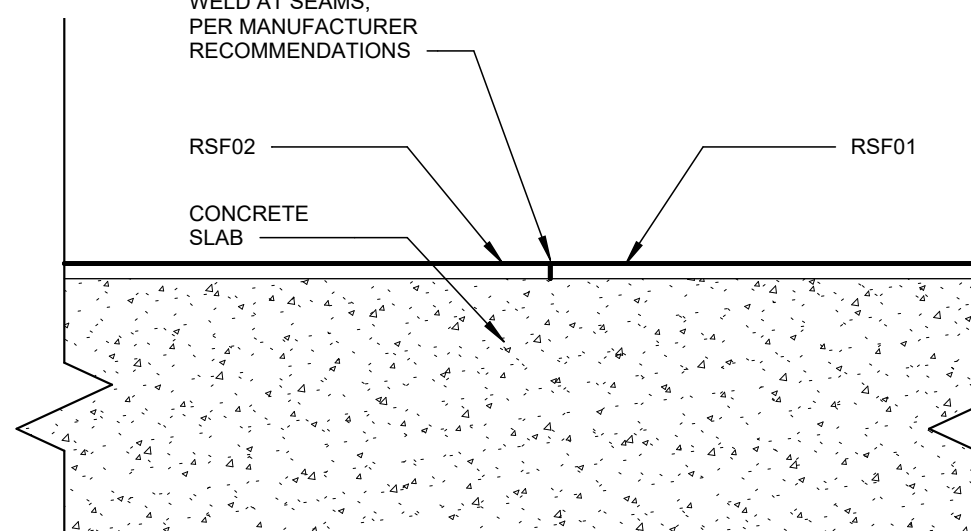
**11 New Carpet to Existing Carpet.**  
3" = 1'-0"



**10 RSF01 to New Carpet.**  
3" = 1'-0"



**9 RSF01 to Existing Carpet.**  
3" = 1'-0"



**8 RSF01 to RSF02.**  
3" = 1'-0"

## FINISH LEGEND

### FLOORS

CARPET TILE - L4 23 BC9528 2T2  
MFR: TBD  
STYLE: TBD  
COLOR/FINISH: Match existing facility carpet  
FINISH BOARD LABEL NAME: Office + Postion Room Carpet

RESILIENT SHEET FLOORING - 3139  
MFR: Forbo or a comparable product of one of the following:  
a. AB; American Bitritie,  
b. Flexco,  
or see specification sheet for more manufacturers.  
STYLE: MCS  
COLOR/FINISH: Lava  
SIZE: 2mm Thick  
FINISH BOARD LABEL NAME: Dining Floor  
NOTES: Marmoleum

RESILIENT SHEET FLOORING - 3273  
MFR: Forbo or a comparable product of one of the following:  
a. AB; American Bitritie,  
b. Flexco,  
or see specification sheet for more manufacturers.  
STYLE: MCS  
COLOR/FINISH: Nebula  
SIZE: 2mm Thick  
FINISH BOARD LABEL NAME: Dining Floor  
NOTES: Marmoleum

### PAINT

INTERIOR PAINT - SW7757  
MFR: Sherwin Williams or a comparable product of one of the following:  
a. Behr Process Corporation.,  
b. Benjamin Moore & Co.,  
or see specification sheet for more manufacturers.  
STYLE: Eggshell  
COLOR/FINISH: High Reflective White  
FINISH BOARD LABEL NAME: Overall Paint

INTERIOR PAINT - SW6868  
MFR: Sherwin Williams or a comparable product of one of the following:  
a. Behr Process Corporation.,  
b. Benjamin Moore & Co.,  
or see specification sheet for more manufacturers.  
STYLE: Eggshell, Gloss  
COLOR/FINISH: Real Red  
FINISH BOARD LABEL NAME: Accent Paint / Signage  
NOTES: Match Client Brand Standards

### COUNTERS

SOLID SURFACING - 9221SP  
MFR: Wilsonart or a comparable product of one of the following:  
a. Aristech Surfaces, LLC; Avonite Surfaces.,  
b. E.I. DuPont de Nemours, Inc.,  
or see specification sheet for more manufacturers.  
COLOR/FINISH: Luminous White  
FINISH BOARD LABEL NAME: Window Counter, Entrance Wall

### WALL

**T01**  
TILE  
MFR: Laminam, or a comparable product of one of the following:  
a. American Marazzi Tile, Inc.,  
b. American Olean; Div. of Dal-Tile International, Inc.,  
c. Dal-Tile International, Inc.  
STYLE: Natural  
COLOR/FINISH: Staturarietto, Polished  
SIZE: 1000mm x 3000mm  
SERVERY SOFFIT FASCIA: 1/8" thickness,  
WALLS: 1/8" thickness,  
COUNTERTOP: 1/2" thickness,  
all corners to be mitered

**T03**  
TILE  
MFR: DDS Tile, or a comparable product of one of the following:  
a. American Marazzi Tile, Inc.,  
b. American Olean; Div. of Dal-Tile International, Inc.,  
c. Dal-Tile International, Inc.  
STYLE: Umi Naya  
COLOR/FINISH: Black Glossy  
SIZE: 2' x 8'  
FINISH BOARD LABEL NAME: Kitchen Accent Full Height

### BASE

**WB01**  
WALL BASE  
MFR: Tarkett Millwork Base System or a comparable product of one of the following:  
a. Allstate Rubber Corp.,  
b. Burke Mercer Flooring Products, Division of Burke Industries Inc.,  
c. Johnsonite; A Tarkett Company.  
d. Roppe Corporation, USA  
STYLE: Mandalay Profile  
COLOR/FINISH: White  
SIZE: 2.5" MW-XX-H25  
FINISH BOARD LABEL NAME: Dining

### MILLWORK

**ML01**  
METAL  
MFR: Forms & Surfaces or a comparable product of one of the following:  
a. Arktura,  
b. Chicago Metallic Corporation.,  
c. USG Interiors, Inc.  
STYLE: Fused Metal  
COLOR/FINISH: Fused Graphite, Linen  
SIZE: 0.8mm  
FINISH BOARD LABEL NAME: Servery Soffit Bottom

**PL01**  
PLASTIC LAMINATE - 5883  
MFR: Formica or a comparable product of one of the following:  
a. Abet Laminati, Inc.,  
b. Formica Corporation.,  
c. Lamin-Art, Inc.,  
d. Pionite; a Panolam Industries International, Inc. brand.  
e. Wilsonart International Holdings, Inc.  
STYLE: Crystal (42)  
COLOR/FINISH: Pecan Woodline  
FINISH BOARD LABEL NAME: Servery Soffit Fascia B  
NOTES: Grain to run vertical

**PL02**  
CABINET FINISH  
MFR: Stylelite or a comparable product of one of the following:  
a. Abet Laminati, Inc.,  
b. Formica Corporation.,  
c. Lamin-Art, Inc.,  
d. Pionite; a Panolam Industries International, Inc. brand.  
e. Wilsonart International Holdings, Inc.  
STYLE: TruMatte  
COLOR/FINISH: Graphite  
FINISH BOARD LABEL NAME: Cabinet Finish

**T01**  
TILE  
MFR: Laminam, or a comparable product of one of the following:  
a. American Marazzi Tile, Inc.,  
b. American Olean; Div. of Dal-Tile International, Inc.,  
c. Dal-Tile International, Inc.  
STYLE: Natural  
COLOR/FINISH: Staturarietto  
SIZE: 1000mm x 3000mm  
SERVERY SOFFIT FASCIA: 1/8" thickness,  
WALLS: 1/8" thickness,  
COUNTERTOP: 1/2" thickness,  
all corners to be mitered

**T02**  
TILE  
MFR: Laminam, or a comparable product of one of the following:  
a. American Marazzi Tile, Inc.,  
b. American Olean; Div. of Dal-Tile International, Inc.,  
c. Dal-Tile International, Inc.  
STYLE: Pietra di Savoia  
COLOR/FINISH: Grigia, Bush Hammered  
SIZE: 1000mm x 3000mm x 1/8" thickness

### CEILING

**ACP01**  
ACOUSTIC CEILING PANEL  
MFR: Acoufist; Baffles, Truss, Dimensional, Premier or a comparable product of one of the following:  
a. Armstrong World Industries, Inc.,  
b. Celotex Corporation; Architectural Ceilings Marketing Dept.  
c. USG Interiors, Inc.  
STYLE: Baffles, Truss, Dimensional, Premier  
COLOR/FINISH: Grey  
SIZE: 2' D x 4' H  
FINISH BOARD LABEL NAME: Acoustic Dining Ceiling

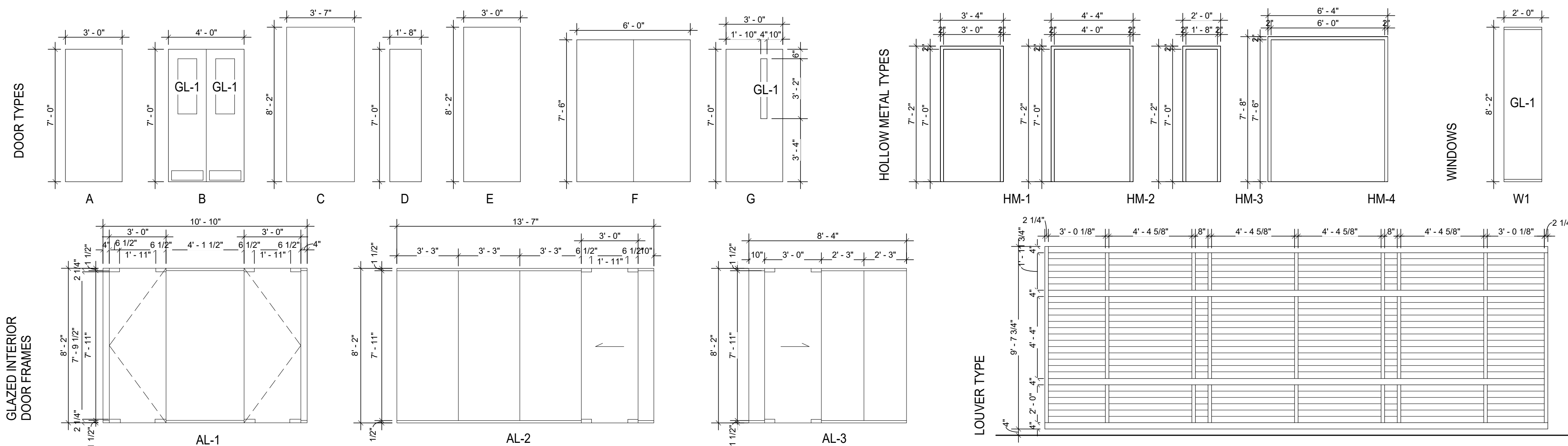
**MCP01**  
METAL CEILING PANEL  
MFR: Arktura Vapor Gradient or a comparable product of one of the following:  
a. Armstrong World Industries, Inc.,  
b. Chicago Metallic Corpo  
c. USG Interiors, Inc.  
STYLE: Vapor Gradient  
COLOR/FINISH: Shadow, Mix of 3 panel types, with LED backlight  
SIZE: 2' x 4'  
FINISH BOARD LABEL NAME: Dining Feature Ceiling  
NOTES: Perforated Metal, Feature Ceiling

**ACT01**  
ACOUSTIC CEILING PANEL  
MFR: Armstrong; Lyra Concealed or a comparable product of one of the following:  
a. Celotex Corporation; Architectural Ceilings Marketing Dept.  
b. USG Interiors, Inc.  
STYLE: Lyra Concealed  
COLOR/FINISH: Custom Red (match client colors)  
SIZE: 48" x 48" x 7/8"  
FINISH BOARD LABEL NAME: Dining Ceiling above Baffles  
NOTES: 90 NRC / 190 AC, Lyra Concealed Trim

**ACT02**  
ACOUSTIC CEILING PANEL  
MFR: Armstrong, Calla Health Zone Tegular, or a comparable product of one of the following:  
a. Celotex Corporation; Architectural Ceilings Marketing Dept.  
b. USG Interiors, Inc.  
STYLE: Calla Health Zone Tegular  
COLOR/FINISH: Black  
SIZE: 24" x 24" x 1"  
FINISH BOARD LABEL NAME: Kitchen Ceiling  
NOTES: 80 NRC/38 CAC 9/16" Suprafine black grid

**ACT03**  
ACOUSTIC CEILING PANEL  
MFR: Armstrong; Clean Room VL or a comparable product of one of the following:  
a. Celotex Corporation; Architectural Ceilings Marketing Dept.  
b. USG Interiors, Inc.  
STYLE: Vinyl Faced Ceiling Tile  
COLOR/FINISH: White  
SIZE: 24" x 24"  
FINISH BOARD LABEL NAME: Dish Room Ceiling

**ACT04**  
ACOUSTIC CEILING PANEL  
MFR: Armstrong Optima Tegular or a comparable product of one of the following:  
a. Celotex Corporation; Architectural Ceilings Marketing Dept.  
b. USG Interiors, Inc.  
STYLE: Optima Tegular  
COLOR/FINISH: White  
SIZE: 24" x 24"  
FINISH BOARD LABEL NAME: Position Room Ceiling  
NOTES: 90 NRC/26 CAC 9/16" Suprafine grid



**Legend - Door-**  
1/4" = 1'-0"



**Architect**  
CRA Associates, Inc.  
100 Europa Drive, Suite 565  
Chapel Hill, NC 27517

**Sports Design / Interiors**  
HKS, Inc.  
2100 E. Cary Street, Suite 100  
Richmond, VA 23225

**Structural**  
Bennett & Pless  
5430 Wade Park Blvd., Suite 400  
Raleigh, NC 27601

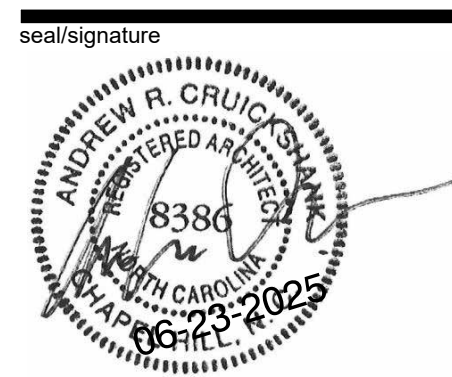
**MEP/FP**  
Optima Engineering  
434 Fayetteville Street, Suite 2450  
Raleigh, NC 27601

**Food Service**  
Foodesign  
220 N Ames St., Suite 101  
Matthews, NC 28105



**Wendell H. Murphy  
Football Center -  
Kitchen Renovation**

SCO ID: 24-28146-01A  
NCSU Project #: 202320015  
Code: 42324 Item: 305  
NCSU Building #:135F



rev	date	description
1	08/28/2025	Addendum#1
2	08/29/2025	Addendum#2

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phase CD  
issued for BID  
project number 2308















**Door Schedule &  
Finish Legend -  
Alternate#2**

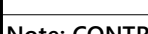
sheet number

**A4.00A**









EXISTING/DEMOLITION LEGEND	
SYMBOL	DESCRIPTION
	HALFTONE SYMBOL INDICATES EXISTING
	DASHED SYMBOL INDICATES REMOVED
	HATCHED SYMBOL INDICATES REMOVED












LIGHTING FIXTURE SYMBOLS AND DEVICES LEGEND	
SYMBOL	DESCRIPTION
	SUSPENDED OR PENDANT LIGHT FIXTURE.
	WALL MOUNTED LIGHTING FIXTURE.
	LED LIGHTING FIXTURE. SEE LIGHTING FIXTURE SCHEDULE. SUSPEND FOUR CORNERS WITH WIRE TO STRUCTURE. DO NOT ALLOW GRID ALONE TO SUPPORT FIXTURE.
	RECESSED LED OR H.I.D. LIGHTING FIXTURE.
	SUSPENDED OR PENDANT LIGHT (TYPE DENOTED IN LIGHTING SCHEDULE)
	RECESSED LINEAR LIGHT (TYPE DENOTED IN LIGHTING SCHEDULE)
	CEILING MOUNTED EXIT LIGHT WITH ARROWS AND NUMBERS OF FACES AS INDICATED ON PLANS. SEE LIGHTING FIXTURE SCHEDULE.
	WALL MOUNTED EXIT LIGHT WITH ARROWS AND NUMBERS OF FACES AS INDICATED ON PLANS. SEE LIGHTING FIXTURE SCHEDULE.
	SINGLE POLE SWITCH, 20 AMP, 120/277 VOLT, COOPER AH 1221, OR EQUAL BY HUBBELL, LEVITON AND PASS & SEYMOUR.
	THREE WAY SWITCH, 20 AMP, 120/277 VOLT, COOPER 1223, THREE WAY SWITCH, 20 AMP, 120/277 VOLT, COOPER 1223, OR EQUAL BY HUBBELL, LEVITON AND PASS & SEYMOUR.
	DIMMER SWITCH, LUTRON SERIES, OR EQUAL. VERIFY LOAD ON CIRCUIT AND MATCH DIMMER SIZE TO LOAD AND DEVICE QUANTITY. PROVIDE DOUBLE GANG J-BOX WITH SINGLE GANG TRIM PLATE. PROVIDE DIMMING SWITCH AS RECOMMENDED BY LIGHTING MANUFACTURER. MATCH SWITCH TYPE TO SOURCE (LED, FLUORESCENT, OR INCANDESCENT) WATTAGE, AND QUANTITY.
	0-10V DIMMER SWITCH. SEE DETAIL "CLASSROOM SWITCH CONTROL - DIMMING" FOR TYPE AND TYPICAL APPLICATION. 3WAY 3D APPLICATION IS BASED ON ON/OFF LOW VOLTAGE SWITCH SWK-801 OR EQUAL.
	CEILING MOUNTED OCCUPANCY SENSOR, DUAL TECHNOLOGY. SENSOR SWITCH CDM PDT 10, WATT STOPPER #DT-300, COOPER OAC-DT OR EQUAL.
	CEILING MOUNTED OCCUPANCY SENSOR POWER PACK. SENSOR SWITCH PP-20, WATT STOPPER #BZ-100, COOPER SP-20, OR EQUAL.

FLR. BOX OUTLETS-REC. FLUSH MOUNT F/R POKE LEGEND	
SYMBOL	DESCRIPTION
	FLUSH MOUNTED FIRE RATED POKE THRU DEVICE WITH ACCESSIBLE COVER FOR POWER AND COMMUNICATIONS. PROVIDE TWO NEMA 5-20R DUPLEX RECEPTABLES AND TWO COMMUNICATION PLATES FOR TWO R4S CETS JACKS ON EACH PLATE. LEGRAND EVOLUTION EATON, OR APPROVED EQUAL BY HUBBELL OR EATON. ARCHITECT TO SELECT FINISH. PROVIDE ONE CONCEALED 2" C. ROUTED TO NEAREST RACEWAY.

Note: CONTRACTOR SHALL VERIFY WITH ARCHITECT THE FLOOR FINISH PRIOR TO ORDERING MATERIAL. PROVIDE ALL NECESSARY SKIMS, TRIM PLATES, ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.

TELECOM LEGAL - ELECTRICAL	
SYMBOL	DESCRIPTION
◀	<p>DATA OUTLET ABOVE COUNTER OR HEIGHT SPECIFIED. MINIMUM 1' CONDUIT FROM ABOVE NEAREST TELECOM RACEWAY. CONDUIT STUB UP OR J-HOOKS NOT ALLOWED. 4" SQUARE BOX WITH A DOUBLE-GANG OPENING AND PLASTER RING. DATA/TELEPHONE DROPS, NUMBER INDICATES NUMBER OF JACKS/CABLING IN FACEDATE. HEIGHT AS INDICATED.</p> <p>DATA OUTLET. MINIMUM 1 1/4" CONDUIT FROM ABOVE NEAREST TELECOM RACEWAY. CONDUIT STUB UP OR J-HOOKS NOT ALLOWED. 4" SQUARE BOX WITH A DOUBLE-GANG OPENING AND PLASTER RING. SUBSCRIPT NEXT TO OUTLET INDICATES DATA DROPS. IF CABLE QUANTITY AND SERVICE ARE NOT IDENTIFIED, THEN PATHWAY ONLY OR REFER TO TECHNOLOGY DRAWINGS FOR CABLE AND ACTIVATION TYPE.</p> <p>STRUCTURE MOUNTED JUNCTION BOX FOR WIRELESS ACCESS POINT IN CEILING APPLICATIONS. 4" SQUARE BOX WITH A TWO-GANG OPENING. MINIMUM 1' CONDUIT FROM BOX TO ABOVE NEAREST TELECOM RACEWAY. CONDUIT STUB UP OR J-HOOKS NOT ALLOWED. REFER TO TECHNOLOGY DRAWINGS FOR CABLE QUANTITY AND SERVICE. SEE ALSO REQUIREMENTS. COORDINATE FINAL LOCATION AND INSTALLATION REQUIREMENTS WITH NCSCU COMTECH PROJECT TO ROUGH-IN.</p> <p>STRUCTURE MOUNTED JUNCTION BOX FOR WIRELESS ACCESS POINT ON WALL MOUNTED APPLICATIONS. 4" SQUARE BOX WITH A TWO-GANG OPENING. MINIMUM 1' CONDUIT FROM BOX TO ABOVE NEAREST TELECOM RACEWAY. CONDUIT STUB UP OR J-HOOKS NOT ALLOWED. REFER TO TECHNOLOGY DRAWINGS FOR CABLE QUANTITY AND SERVICE. SEE ALSO REQUIREMENTS. COORDINATE FINAL LOCATION AND INSTALLATION REQUIREMENTS WITH NCSCU COMTECH PROJECT TO ROUGH-IN.</p>

SYMBOL SCHEDULE POWER	
SYMBOL	DESCRIPTION
	WIRING SYSTEM CONCEALED IN WALL OR CEILING.
	WIRING SYSTEM CONCEALED IN OR UNDER SLAB OR UNDERGROUND WHEN SHOWN ON POWER PLANS. UNSWITCHED LEG OF LIGHTING CIRCUIT WHEN SHOWN ON LIGHTING PLANS.
	WIRING SYSTEM LOW VOLTAGE.
	CONDUIT TURNED DOWN TO FLOOR BELOW.
	CONDUIT TURNED UP TO FLOOR ABOVE.
	BRANCH CIRCUIT HOMERUN TO PANEL.

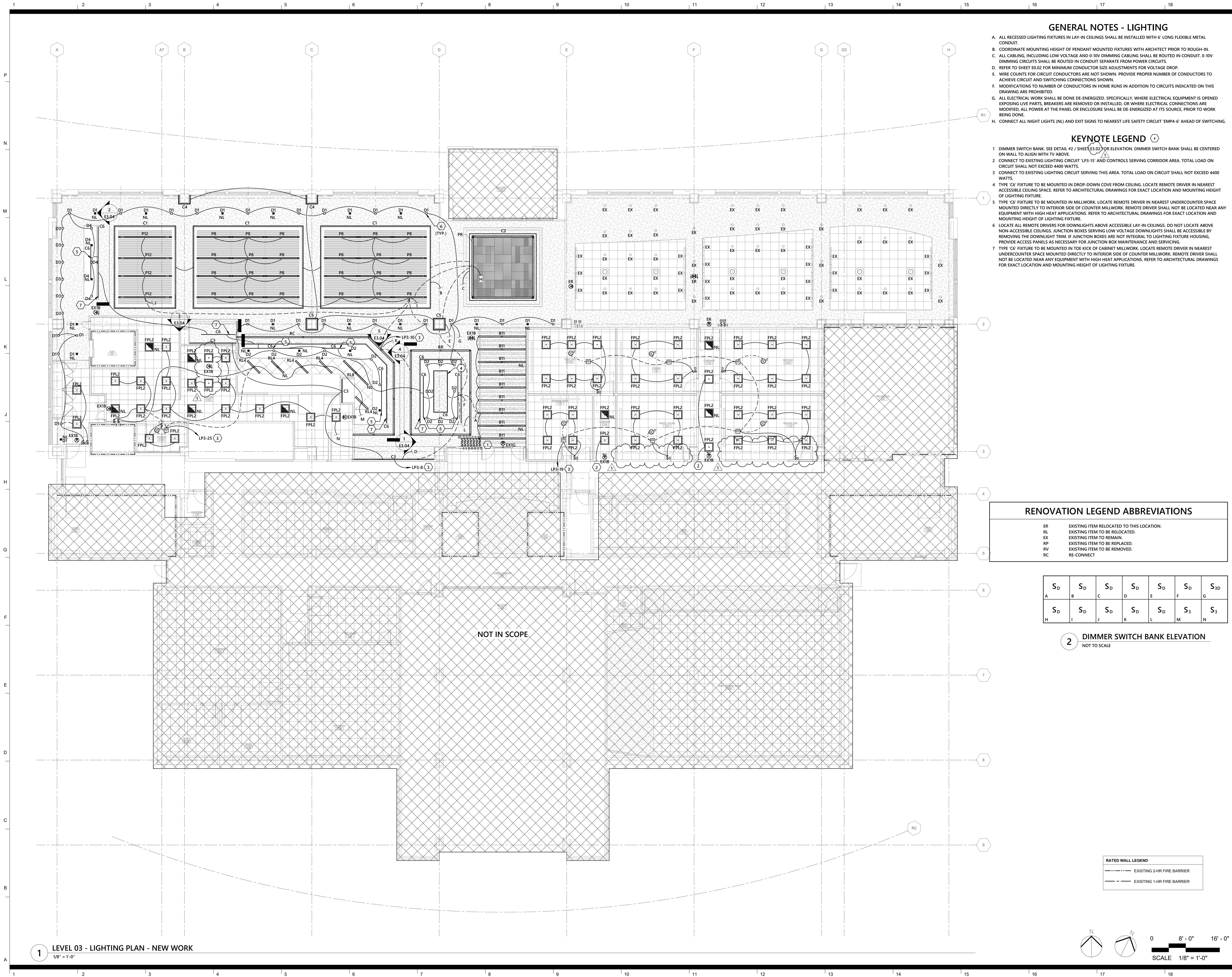
SYMBOL		DESCRIPTION
		DUPLEX RECEPTACLE CEILING MOUNTED
		JUNCTION BOX WITH CONNECTION TO EQUIPMENT SERVED. 4" SQUARE BOX WITH A SINGLE-GANG OPENING AND PLASTER RING.
		CEILING MOUNT JUNCTION BOX WITH CONNECTION TO EQUIPMENT SERVED
		208Y/120V THREE PHASE PANELBOARD. SEE SCHEDULE FOR MOUNTING. TOP OF PANEL AT 6" AFF.
		480Y/277V THREE PHASE PANELBOARD. SEE SCHEDULE FOR MOUNTING. TOP OF PANEL AT 6" AFF.
		480-208Y/120V TRANSFORMER. SEE RISER FOR SIZE. PROVIDE 4" THICK HOUSEKEEPING PAD TO EXTEND 3" ON SIDES. FRONT WITH CHAMFER EDGE AND OSHA COMPLIANT, SAFETY YELLOW, EPOXY PAINT SUITABLE FOR CONCRETE.
		SPECIAL OUTLET. SEE PLANS.
		FUSED HEAVY DUTY DISCONNECT SWITCH. NUMERALS INDICATE SWITCH RATING. NEMA 1 ENCLOSURE, UNLESS OTHERWISE NOTED. UNSHADED INDICATES NON-FUSED.
		NON-FUSED HEAVY DUTY DISCONNECT SWITCH. NUMERALS INDICATE SWITCH RATING. NEMA 1 ENCLOSURE, UNLESS OTHERWISE NOTED. UNSHADED INDICATES NON-FUSED.
		FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER, WITH OVERLOAD PROTECTION
		ALL THINGS "X" CAN BE: T = TIMER, (0 - 4) HOUR MANUAL TIMER SWITCH, F = FAN SWITCH, VARIABLE SPEED FAN SWITCH

ELECTRICAL FIXTURES LEGEND - COMMERCIAL	
SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER BACKSLASH, COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
	DUPLEX RECEPTACLE, 20 AMP, 120 VOLT COOPER 5362 OR EQUAL.
	ALL THINGS "X" CAN BE F = FLOOR PEDESTAL RECEPTACLE. REFER TO DETAIL #2 / SHEET ES.01.
	DUPLEX RECEPTACLE, NEMA 5-20R DUPLEX. ALL RECEPTACLES INSTALLED OUTSIDE, WITHIN 6' OF A SINK OR IN A KITCHEN SHALL BE GFCI.
	DUPLEX RECEPTACLE - BREAKER AT PANEL, NEMA 5-20R DUPLEX. MOUNTED ABOVE COUNTER, OR AT HEIGHT NOTED. ALL RECEPTACLES INSTALLED OUTSIDE, WITHIN 6' OF A SINK OR IN A KITCHEN SHALL BE GFCI.
	DUPLEX RECEPTACLE - BREAKER AT PANEL, NEMA 5-20R DUPLEX. ALL RECEPTACLES INSTALLED OUTSIDE, WITHIN 6' OF A SINK OR IN A KITCHEN SHALL BE GFCI.
	DUPLEX RECEPTACLE, NEMA 5-20R MOUNTED ABOVE COUNTER BACKSPASH OR AT HEIGHT NOTED.
	WEATHERPROOF GROUND FAULT RECEPTACLE, NEMA 5-20R DUPLEX, CORROSION RESISTANT, WITH N-USE COVER.
	QUAD RECEPTACLE, TWO NEMA 5-20R DUPLEX RECEPTACLES, OTHERWISE SAME AS DUPLEX RECEPTACLE ABOVE.

## DISCONNECT SIZE DESCRIPTION

A-F A-P  
FRAME SIZE FUSE SIZE NUMBER OF POLES NEMA RATING





## GENERAL NOTES - LIGHTING

- ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUIT.
- COORDINATE MOUNTING HEIGHT OF PENDANT MOUNTED FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN.
- ALL CABLING, INCLUDING LOW VOLTAGE AND 0-10V DIMMING CABLING SHALL BE ROUTED IN CONDUIT. 0-10V DIMMING CIRCUITS SHALL BE ROUTED IN CONDUIT SEPARATE FROM POWER CIRCUITS.
- REFER TO SHEET E0.02 FOR MINIMUM CONDUCTOR SIZE ADJUSTMENTS FOR VOLTAGE DROP.
- WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUIT AND SWITCHING CONNECTIONS SHOWN.
- MODIFICATIONS TO NUMBER OF CONDUCTORS IN HOME RUNS IN ADDITION TO CIRCUITS INDICATED ON THIS DRAWING ARE PROHIBITED.
- ALL ELECTRICAL WORK SHALL BE DONE DE-ENERGIZED. SPECIFICALLY, WHERE ELECTRICAL EQUIPMENT IS OPENED EXPOSING LIVE PARTS, BREAKERS ARE REMOVED OR INSTALLED, OR WHERE ELECTRICAL CONNECTIONS ARE MODIFIED, ALL POWER AT THE PANEL OR ENCLOSURE SHALL BE DE-ENERGIZED AT ITS SOURCE, PRIOR TO WORK BEING DONE.
- CONNECT ALL NIGHT LIGHTS (NL) AND EXIT SIGNS TO NEAREST LIFE SAFETY CIRCUIT 'EMP4-6' AHEAD OF SWITCHING.

## KEYNOTE LEGEND

- DIMMER SWITCH BANK. SEE DETAIL #2 / SHEET E3.02 FOR ELEVATION. DIMMER SWITCH BANK SHALL BE CENTERED ON WALL TO ALIGN WITH TV ABOVE.
- CONNECT TO EXISTING LIGHTING CIRCUIT 'LP3-15' AND CONTROLS SERVING CORRIDOR AREA. TOTAL LOAD ON CIRCUIT SHALL NOT EXCEED 4400 WATTS.
- CONNECT TO EXISTING LIGHTING CIRCUIT SERVING THIS AREA. TOTAL LOAD ON CIRCUIT SHALL NOT EXCEED 4400 WATTS.
- TYPE 'C6' FIXTURE TO BE MOUNTED IN DROP-DOWN COVE FROM CEILING. LOCATE REMOTE DRIVER IN NEAREST ACCESSIBLE CEILING SPACE. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT OF LIGHTING FIXTURE.
- TYPE 'C6' FIXTURE TO BE MOUNTED IN MILLWORK. LOCATE REMOTE DRIVER IN NEAREST UNDERCOUNTER SPACE MOUNTED DIRECTLY TO INTERIOR SIDE OF COUNTER MILLWORK. REMOTE DRIVER SHALL NOT BE LOCATED NEAR ANY EQUIPMENT WITH HIGH HEAT APPLICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT OF LIGHTING FIXTURE.
- LOCATE ALL REMOTE DRIVERS FOR DOWNLIGHTS ABOVE ACCESSIBLE LAY-IN CEILINGS. DO NOT LOCATE ABOVE NON-ACCESSIBLE CEILINGS. JUNCTION BOXES SERVING LOW VOLTAGE DOWNLIGHTS SHALL BE ACCESSIBLE BY REMOVING THE DOWNLIGHT TRIM. IF JUNCTION BOXES ARE NOT INTEGRAL TO LIGHTING FIXTURE HOUSING, PROVIDE ACCESS PANELS AS NECESSARY FOR JUNCTION BOX MAINTENANCE AND SERVICING.
- TYPE 'C6' FIXTURE TO BE MOUNTED IN TOE KICK OF CABINET MILLWORK. LOCATE REMOTE DRIVER IN NEAREST UNDERCOUNTER SPACE MOUNTED DIRECTLY TO INTERIOR SIDE OF COUNTER MILLWORK. REMOTE DRIVER SHALL NOT BE LOCATED NEAR ANY EQUIPMENT WITH HIGH HEAT APPLICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT OF LIGHTING FIXTURE.

## RENOVATION LEGEND ABBREVIATIONS

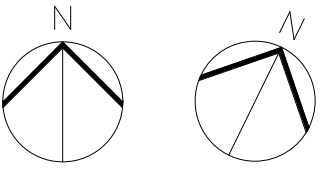
ER	EXISTING ITEM RELOCATED TO THIS LOCATION.
RL	EXISTING ITEM TO BE RELOCATED.
EX	EXISTING ITEM TO REMAIN.
RP	EXISTING ITEM TO BE REPLACED.
RV	EXISTING ITEM TO BE REMOVED.
RC	RE-CONNECT

S <sub>D</sub>	S <sub>D</sub>	S <sub>D</sub>	S <sub>D</sub>	S <sub>D</sub>	S <sub>D</sub>	S <sub>3D</sub>
A	B	C	D	E	F	G
S <sub>D</sub>	S <sub>D</sub>	S <sub>D</sub>	S <sub>D</sub>	S <sub>D</sub>	S <sub>3</sub>	S <sub>3</sub>
H	I	J	K	L	M	N

## 2 DIMMER SWITCH BANK ELEVATION

NOT TO SCALE

RATED WALL LEGEND	
---	EXISTING 2-HR FIRE BARRIER
---	EXISTING 1-HR FIRE BARRIER



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



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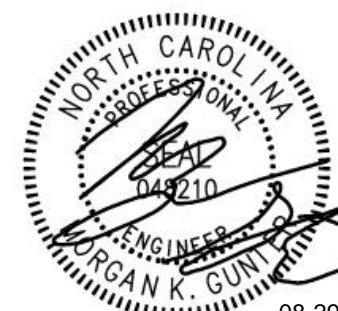
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**Wendell H. Murphy  
Football Center -  
Kitchen Renovation**

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Code: 42324 Item: 305  
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rev 1 date 08/29/25 description ADDENDUM 2

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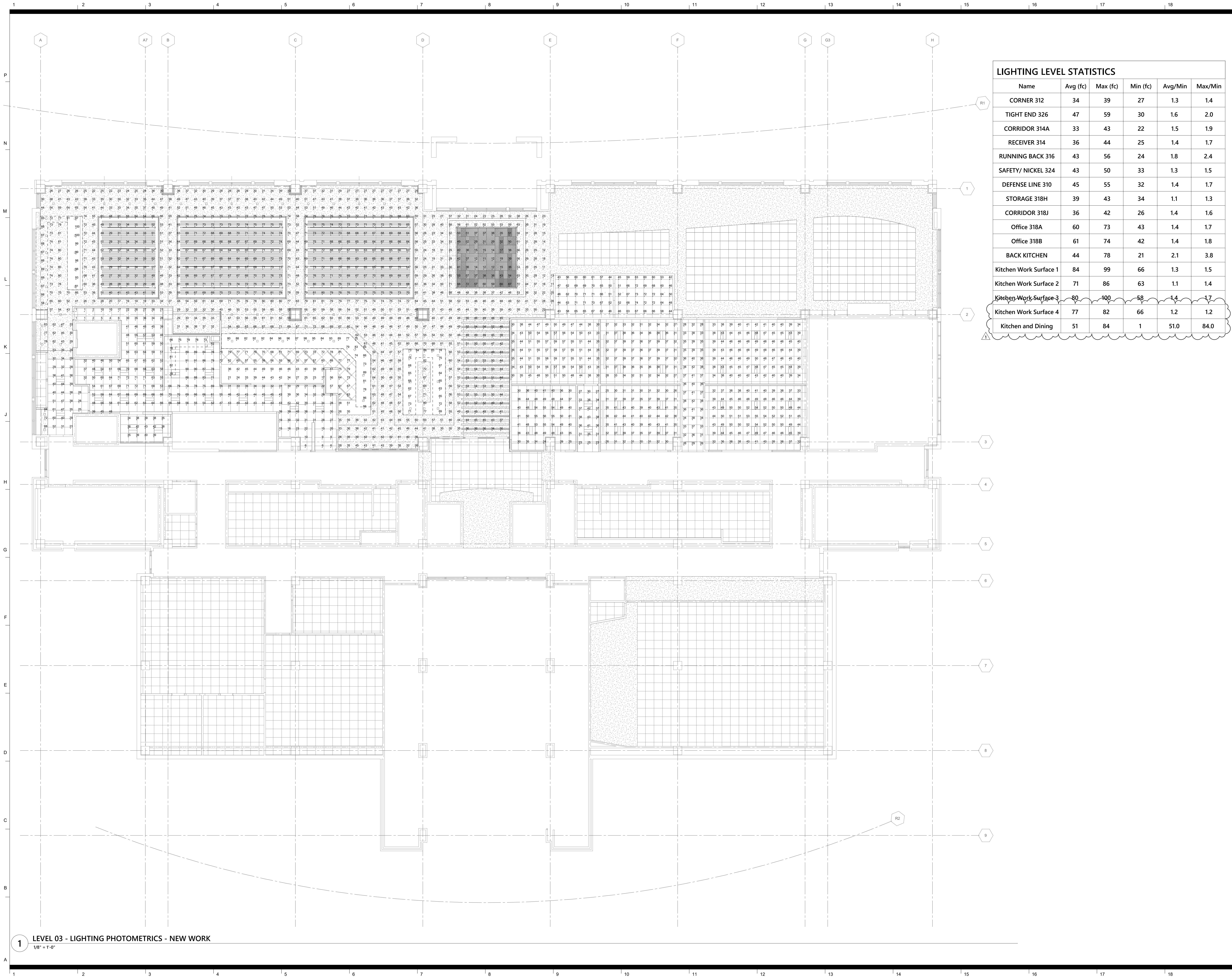
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**LEVEL 03 -  
LIGHTING PLAN -  
NEW WORK**

sheet number

**E3.02**





1 LEVEL 03 - LIGHTING PHOTOMETRICS - NEW WORK  
1/8" = 1'-0"

LIGHTING LEVEL STATISTICS					
Name	Avg (fc)	Max (fc)	Min (fc)	Avg/Min	Max/Min
CORNER 312	34	39	27	1.3	1.4
TIGHT END 326	47	59	30	1.6	2.0
CORRIDOR 314A	33	43	22	1.5	1.9
RECEIVER 314	36	44	25	1.4	1.7
RUNNING BACK 316	43	56	24	1.8	2.4
SAFETY/ NICKEL 324	43	50	33	1.3	1.5
DEFENSE LINE 310	45	55	32	1.4	1.7
STORAGE 318H	39	43	34	1.1	1.3
CORRIDOR 318J	36	42	26	1.4	1.6
Office 318A	60	73	43	1.4	1.7
Office 318B	61	74	42	1.4	1.8
BACK KITCHEN	44	78	21	2.1	3.8
Kitchen Work Surface 1	84	99	66	1.3	1.5
Kitchen Work Surface 2	71	86	63	1.1	1.4
Kitchen Work Surface 3	80	100	58	1.4	1.7
Kitchen Work Surface 4	77	82	66	1.2	1.2
Kitchen and Dining	51	84	1	51.0	84.0



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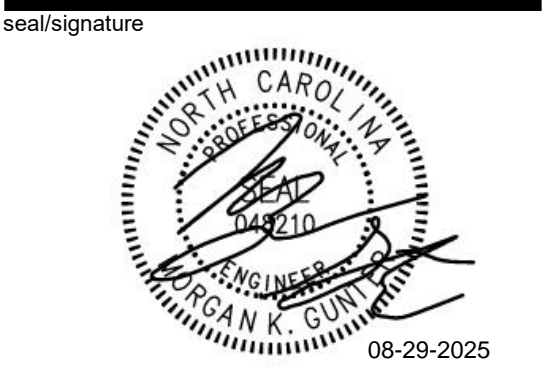
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1	08/29/25	ADDENDUM 2

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**LEVEL 03 -  
LIGHTING  
PHOTOMETRICS**

sheet number  
**E3.03**





- A. WHERE CONNECTED TO A 20A BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPPLY OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.
- B. ALL HOUSEWIRING SHALL BE 4/0 FLR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT SHALL BE 4/0 MINIMUM REQUIREMENTS. 4" HIGH, 4" ARE PLACED, POLYESTER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN THE EQUIPMENT IS TO BE INSTALLED. IT REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED THESE REQUIREMENTS.
- C. CONDUCTOR SIZE 250/350 FOR MINIMUM 1000V. NO ADJUSTMENTS FOR VOLTAGE DROP.
- D. WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUIT AND SWITCHING CONNECTIONS SHOWN.
- E. MODIFICATIONS TO NUMBER OF CONDUCTORS IN HOME RUNS IN ADDITION TO CIRCUITS INDICATED ON THIS DRAWING ARE PROHIBITED.
- F. COORDINATE CABLING OF NEW DATA OUTLETS WITH NCSU COMTECH PRIORITY TO ROUGH-IN.
- G. ALL ELECTRICAL WORK SHALL BE DONE DE-ENERGIZED, SPECIFICALLY, WHERE ELECTRICAL EQUIPMENT IS OPENED EXPOSING LIVE PARTS, BREAKERS ARE REMOVED OR INSTALLED, OR WHERE ELECTRICAL CONNECTIONS ARE MADE OR REMOVED AT THE PANEL OR ENCLOSURE SHALL BE DE-ENERGIZED AT ITS SOURCE, PRIOR TO WORK BEING DONE.

- 12 12VW CONNECTION FOR ELECTRONIC WALL SIGNAGE. COORDINATE EXACT REQUIREMENTS WITH SIGNAGE MANUFACTURER PRIOR TO ROUGH-IN.
- 2 CONNECT TO 20A, 120V SINGLE PHASE SUPPLY DURING DEMOLITION.
- 3 PROVIDE CALING MOUNTED DUPLEX RECEPTACLE FOR PROJECTOR. COORDINATE FINAL LOCATION OF DUPLEX RECEPTACLE WITH VENDOR PRIOR TO ROUGH-IN.
- 4 PROVIDE 120V CONNECTION AND RAISE/LOW SWITCH FOR PROJECTOR SCREEN. COORDINATE EXACT REQUIREMENTS WITH G.C. PRIOR TO ROUGH-IN.
- 5 COORDINATE WITH EXISTING RECEPTACLE CIRCUIT SERVING THIS AREA. TOTAL LOAD ON EXISTING CIRCUIT SHALL NOT EXCEED 10 JUNCTION BOXES.
- 6 PROVIDE (3) JUNCTION BOXES LOCATED ABOVE CEILING FOR PROJECTOR HDMI CABLING. ROUTE (1) 1/2" - C. FROM EACH ABOVE CEILING JUNCTION BOX TO NEAREST IN-WALL JUNCTION BOX LOCATED IN EACH CORNER OF CLASSROOM.
- 7 PROVIDE SINGLE-GANG JUNCTION BOX FOR SPEAKER. REFER TO SOUND SYSTEM DRAWINGS FOR EXACT LOCATION AND REQUIREMENTS. ROUTE (1) 3/4" - C. FROM EQUIPMENT RACK TO SPEAKER JUNCTION BOX FOR LOW VOLTAGE CABLE.
- 8 FURNITURE MOUNTED RECEPTACLE FOR GROMMET MOUNTED RECEPTACLE ON BAR COUNTER. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS AND REQUIREMENTS.
- 9 PROVIDE SINGLE-GANG JUNCTION BOX FOR SPEAKER BLUETOOTH RX MODULE. REFER TO SOUND SYSTEM DRAWINGS FOR EXACT REQUIREMENTS. ROUTE (1) 3/4" - C. FROM EQUIPMENT RACK TO BLUETOOTH RX MODULE JUNCTION BOX.
- 10 PROVIDE SINGLE-GANG JUNCTION BOX FOR SPEAKER TOUCH PANEL. REFER TO SOUND SYSTEM DRAWINGS FOR EXACT REQUIREMENTS. ROUTE (1) 3/4" - C. FROM EQUIPMENT RACK TO TOUCH PANEL JUNCTION BOX.
- 11 CORE DRILL POKE THROUGH DEVICE FOR POS SYSTEM POWER AND DATA LOCATED AT DINING AREA ENTRANCE DESK. COORDINATE POKE THROUGH OF POS SYSTEM WITH DESK INSTALLATION PRIOR TO ROUGH-IN. CORE DRILL POKE THROUGH DEVICE FOR POS SYSTEM DATA LOCATED AT MAIN FLOOR LOBBY. REFER TO RE-ENTRY AROUND PENETRATING RADAR SURVEY SHALL BE COMPLETED PRIOR TO CORE DRILL POKE THROUGH ROUGH-IN TO AVOID DAMAGE TO ANY EXISTING PIPE, CONDUIT, OR STRUCTURAL ELEMENTS.
- 12 CEILING MOUNTED WIRELESS ACCESS POINT. REFER TO INSTALLATION DETAIL - SHEET 66.02 FOR ADDITIONAL INFORMATION. COORDINATE FINAL LOCATION AND INSTALLATION REQUIREMENTS WITH NCSU COMTECH PRIOR TO ROUGH-IN.
- 13 WALL MOUNTED WIRELESS ACCESS POINT. REFER TO INSTALLATION DETAIL - SHEET 66.02 FOR ADDITIONAL INFORMATION. COORDINATE FINAL LOCATION AND INSTALLATION REQUIREMENTS WITH NCSU COMTECH PRIOR TO ROUGH-IN.

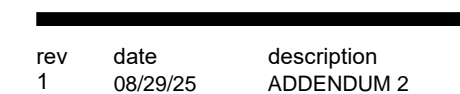
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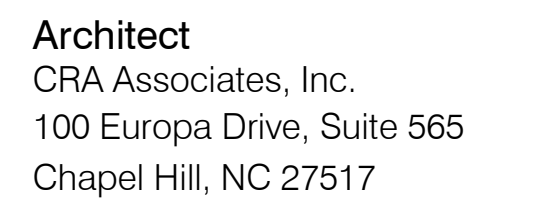
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### E3.06

OPTIMA# 24-0096R      Sheet No. 11 of 24





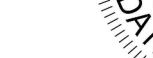


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## PLUMBING LEGEND, INDEX, AND NOTES

## P0.01

OPTIMA# 24-0096R      Sheet No. 1 of 12

1. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING THE PROJECT TO VERIFY EXISTING CONDITIONS AND DETERMINE THE LEVEL OF DEMOLITION REQUIRED AND INCLUDE ALL NECESSARY PRICING IN THEIR BID. ANY DISCREPANCIES NOTED BETWEEN THE DOCUMENTS AND EXISTING CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BIDDING.
2. PLUMBING CONTRACTOR SHALL REMOVE EXISTING PLUMBING FIXTURES AND EQUIPMENT AS INDICATED, INCLUDING ASSOCIATED HOT WATER, COLD WATER, WASTE AND VENT PIPING, UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DEMOLITION PLAN FOR LOCATIONS.
3. PLUMBING CONTRACTOR SHALL REMOVE UNUSED HW & CW BRANCH PIPING BACK TO WITHIN 12" OF THE MAIN IT CONNECTS, TERMINATE WITH SHUT-OFF VALVE AND CAP.
4. PLUMBING CONTRACTOR SHALL TERMINATE UNUSED BRANCH WASTE PIPING WITH A CLEAN-OUT AT THE MOST REMOTE END OR ABANDONED AND CAPPED WITHIN 12" OF THE MAIN IT CONNECTS. (NO DEAD- ENDS ALLOWED)
5. PLUMBING CONTRACTOR SHALL REMOVE UNUSED VENT BRANCH PIPING BACK TO WITHIN 12" OF THE MAIN IT CONNECTS THEN CAP.
6. PLUMBING CONTRACTOR SHALL VERIFY PROPER OPERATION OF ALL EXISTING EQUIPMENT PRIOR TO BEGINNING WORK. ANY PROBLEMS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ARCHITECT IMMEDIATELY.
7. WITH THE REMOVAL OF EXISTING WALLS, SOME EXISTING WASTE, VENT, STORM DRAIN, OR DOMESTIC WATER PIPING MAY BE DISCOVERED. ANY EXISTING PIPING DISCOVERED THAT IS ACTIVE SHALL BE OFFSET BY THE P.C. TO NEW WALLS. ANY EXISTING PIPING DISCOVERED THAT IS ABANDONED SHALL BE REMOVED.

1. PLUMBING CONTRACTOR TO BE RESPONSIBLE FOR PROTECTION OF DOMESTIC WATER SYSTEM AGAINST BACKFLOW AND BACK SIPHONING WHEN A 'HARD' CONNECTION IS MADE TO ANY KITCHEN EQUIPMENT OR APPLIANCE. PER NC PLUMBING CODE 608.3, ALL DEVICES, APPURTENANCES, APPLIANCES, AND APPARATUS INTENDED TO SERVE SPECIAL FUNCTIONS SUCH AS PROCESSING, COOKING, HEATING, OR STORAGE OF ICE THAT ARE CONNECTED TO THE WATER SUPPLY SHALL BE PROVIDED WITH PROTECTION AGAINST BACKFLOW CONTAMINATION OF WATER SUPPLY SYSTEM.
2. WATER FILTERS, SOFTENERS, AND HOLDING TANKS OF POTABLE WATER SHALL BE PROTECTED AGAINST CONTAMINATION. THE PC SHALL COOPERATE WITH KITCHEN EQUIPMENT CONTRACTOR AND SHALL VERIFY MOST ADEQUATE PROTECTION REQUIRED. ANY APPROVED DEVICE EITHER EXTERIOR TO OR BUILT-INTO THE APPLIANCE SHALL BE ACCEPTABLE.

**GREASE WASTE AND VENT PIPING:**

**2. GREASE WASTE PIPING BELOW GRADE:**

A. SERVICE WEIGHT HIGH-PERFORMANCE COATED CAST IRON HUB AND SPOUT PIPE (ASTM A 74) WITH COMPRESSION JOINTS (CIPSI HSN) AND NEOPRENE GASKETS (ASTM C 564) WITH NEOPRENE GASKET/STAINLESS STEEL CLAMP JOINTS (ASTM C1540-15); PIPE COATING SHALL CONSIST OF A CHEMICALLY DEPOSITED ZINC-PHOSPHATE PRETREATMENT LAYER FOLLOWED BY AN ELECTRICALLY DEPOSITED HIGH-PERFORMANCE CATHODIC EPOXY COATING AND FINISHED WITH AN ELECTRICALLY DEPOSITED HIGH-PERFORMANCE ANODIC EPOXY TOP COAT. (CHARLOTTE PIPE EDGE HP IRON OR APPROVED EQUAL).

**2. GREASE WASTE PIPING ABOVE GRADE:**

A. HIGH-PERFORMANCE COATED CAST IRON HUB PIPE AND FITTINGS (CIPSI 30) WITH NEOPRENE GASKETS/STAINLESS STEEL CLAMP JOINTS (CIPSI 110) WITH NEOPRENE GASKET/STAINLESS STEEL CLAMP JOINTS (ASTM C1540-15); PIPE COATING SHALL CONSIST OF A CHEMICALLY DEPOSITED ZINC-PHOSPHATE PRETREATMENT LAYER FOLLOWED BY AN ELECTRICALLY DEPOSITED HIGH-PERFORMANCE CATHODIC EPOXY COATING AND FINISHED WITH AN ELECTRICALLY DEPOSITED HIGH-PERFORMANCE ANODIC EPOXY TOP COAT. (CHARLOTTE PIPE EDGE HP IRON OR APPROVED EQUAL).

**3. GREASE VENT PIPING:**

A. CAST IRON HUB PIPE AND FITTINGS (CIPSI 30) WITH NEOPRENE GASKETS/STAINLESS STEEL CLAMP JOINTS (CIPSI 110).

SYM.	DESCRIPTION	CONNECTIONS (IN.)				SPECIFICATION	REMARKS
		W	V	CW	HW		
P3H	WALL MOUNTED HANDWASH SINK, 10" 1/4" - 4" DEEP BOWL, 20 GAUGE, 30A. 1/4" NPT. STAINLESS STEEL, BATTERY POWERED ELECTRONIC FAUCET, WITH LEVER DRAIN OVERFLOW.	2"	1 1/2"	1/2"	1/2"	FIXTURE TO BE SUPPLIED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR AND INSTALLED BY THE P.C. PROVIDE ASSE 1070 MIXING VALVE EQUAL TO LEONARD 170-F	SEE NOTE 1 BELOW.
W3I	WATER SUPPLY BOX WITH DRAIN	2"	1 1/2"	1/2"	1/2"	EQUIPMENT: GUY GRAY B-200 MATERIAL: 16 GAUGE STEEL WITH EPOXY FINISH	SEE NOTE 3 BELOW.
CS1	CIRCUIT SETTER, SIZES 1/2" THRU 2" SEE FLOOR PLAN FOR SIZE	-	-	SEE DWG	-	EQUIPMENT: CIRCUIT SOLVER CS SERIES 110 DEGREE MODEL, NSF #1 CERTIFIED	
ECQ	FLOOR CLEANOUT CAST IRON BODY ADJUSTABLE TOP	SEE DWG	-	-	-	EQUIPMENT: JAY R. SMITH 4020 SERIES OUTLET: NO-HUB PLUG: ABS, IRON OR BRONZE WITH GASKET SEAL COVER: ROUND, NICKEL BRONZE	
CQ	END OF LINE PLUG CLEANOUT CAST IRON TAPERED FERRULE CAST BRONZE THREADED PLUG	-	-	-	-	CLEANOUT: JAY R. SMITH 442Z (LESS COVER)	
ED1	FLOOR DRAIN CAST IRON BODY ADJUSTABLE TOP	SEE DWG	-	-	-	DRAIN: JAY R. SMITH 2005 SERIES STRAINER: 6" DIAMETER, TYPE A, STAINLESS STEEL TOP	SEE NOTE 2 BELOW.
ES1	FLOOR SINK 12" x 12" x 6" STAINLESS STEEL BODY AND GRATE	SEE DWG	-	-	-	DRAIN: JAY R. SMITH 3110 STRAINER: 12"x12" STAINLESS STEEL TOP P-TRAP: DEEP SEAL (MATCH DRAIN SIZE)	SEE KITCHEN EQUIP. PLANS FOR QUATE CONFIGURATION (GAR, HALF, FULL)
TD1	FLOOR TROUGH BY FOOD SERVICE EQUIPMENT CONTRACTOR STAINLESS STEEL BODY AND GRATE	SEE DWG	-	-	-	DRAIN: PROVIDED BY F.S.E.C. INSTALLED BY P.C. P-TRAP: DEEP SEAL (MATCH DRAIN SIZE)	
HBI	HOSE BIBB, INTERIOR, EXPOSED, ANTI-SIPHON, VACUUM BREAKER	-	-	3/4"	-	EQUIPMENT: WOODFORD 24 WHEEL HANDLE	MOUNT 24" AFF.

- NOTES:**
1. PROVIDE MIXING VALVE COMPLIANT TO ASSE 1070 AND EQUAL TO A LEONARD 170-LF.
  2. PROVIDE SURESEAL INLINE FLOOR DRAIN TRAP SEALER IN FLOOR DRAIN FOR TRAP SEAL PROTECTION.
  3. PROVIDE ASSE 1022 COMPLIANT BACKFLOW PREVENTION DEVICE BEFORE CONNECTION TO COFFEE MAKER, BEVERAGE DISPENSERS, AND FOOD DISPENSERS

**APPROVED MANUFACTURERS:**

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE MODEL WHICH MOST CLOSELY MATCHES THE SPECIFIED PRODUCT. PROVIDE PRODUCTS MADE BY ANY OF ALL FIXTURES OF THE SAME THE MANUFACTURER'S LISTED. NO PRIVATE LABELED MATERIALS WILL BE ACCEPTED AS EQUALS TO PRODUCTS SPECIFIED HEREIN. TYPE AND/OR MATERIAL SHALL BE PROVIDED BY A SINGLE MANUFACTURER.

MANUAL FAUCETS	MOEN COMMERCIAL, DELTA COMMERCIAL, T&S BRASS, ZURIN SLOAN, MOEN COMMERCIAL, DELTA COMMERCIAL, T&S BRASS, ZURIN ELKAY, JET, ADVANCE TRAC, FLO, FIAT, FLORESTE, STERN WILLIAMS
SENSOR OPERATED FAUCETS	LEONARD, POWERS, SYMONDS, LAWLER
STAINLESS STEEL SINKS	MCGUIRE, BRASSCRAFT
UTILITY SINKS (MOP BASINS, LAUNDRY SINKS)	TRUBUENO, PLUMBER, KEESE
THERMOSTATIC MIXING VALVES	PROVENT, JAY R. SMITH, SURESLA, MIFAB
SUPPLY STOP, P-TRAPS	BURN, J.R. SMITH, WADSWORTH
ADD INSULATING TIPS FOR EXPOSED TRIM	GUY GARY, SIOUX CHIEF, DARTO
IN LINE FLOOR DRAIN TRAP SEALER	WOODFORD, ZURIN, WADSWORTH
DRAINS, CLEANOUT	WATTS, ZURIN-MILKINS, APOLLO
DRAIN AND SUPPLY BOXES	
WALL-HUNG TOILETS, BIDDY BIBBS	
BACKFLOW PREVENTERS, PRV'S, ETC.	

1. **BELOW GRADE PIPING AND JOINTS:** PROVIDE SERVICE WEIGHT CAST IRON HUB AND SPIGOT PIPE (ASTM A 74) WITH COMPRESSION JOINTS (CSPH HSN) AND NEOPRENE GASKETS (ASTM C 564) OR HUB PIPE AND FITTINGS (CSPH 301) WITH NEOPRENE GASKET / STAINLESS STEEL CLAMP JOINTS (CSPH 310) WITH NEOPRENE GASKET / STAINLESS STEEL CLAMP JOINTS (ASTM C540-15).
2. **ABOVE GRADE PIPING AND JOINTS:** PROVIDE SERVICE WEIGHT CAST IRON HUB PIPE AND FITTINGS (CSPH 301) WITH NEOPRENE GASKET AND STAINLESS STEEL CLAMP JOINTS (CSPH 310) WITH NEOPRENE GASKET / STAINLESS STEEL CLAMP JOINTS (ASTM C540-15).
3. **SLOPE WASTE PIPING AT 1/4" PER FOOT MINIMUM FOR PIPING 2'-10" AND SMALLER AND 1/8" PER FOOT MINIMUM FOR PIPING 2'-10" AND LARGER UNLESS NOTED OTHERWISE. SLOPE ALL KITCHEN GREASE WASTE PIPING AT 1/4" PER FOOT MINIMUM.**
4. **PROVIDE CLEAN-OUTS AT THE BASE OF WASTE STACKS ND AT EVERY TURN IN PIPING IN EXCESS OF 45° AND SPACED WITH THE IN-OR OUT "0" PART IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS.**
5. **PROVIDE FLOOR CLEAN-OUTS WITH TOPS DESIGNED TO MATCH SPECIFIC FLOOR FINISHES SUCH AS CARPET, TILE, ETC. YARD CLEAN-OUTS SHALL BE PROVIDED IN AN 18"x18"x6" CONCRETE PAD.**
6. **WASTE AND VENT SYSTEMS SHALL BE TESTED AND PROVED WATER TIGHT UNDER A HEAD PRESSURE OF NO LESS THAN 10 FT. THIS PRESSURE SHALL BE HELD FOR A PERIOD OF NO LESS THAN 15 MINUTES.**
7. **PIPING INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVES SHALL MEET A FLAME-SPREAD RATING OF 25 OR LESS AND A SMOKE-DEVELOPED RATING OF 50 OR LESS AS TESTED BY ASTM E84 (NPA 255) METHOD. IN ALL INSULATION CONTINUOUSLY THRU FIRE RATED WALLS AND PIPE HANGERS, PROVIDE GALVANIZED STEEL SHEILD BETWEEN PIPE HANGER AND INSULATION.**

**DOMESTIC WATER PIPING:**

1. DOMESTIC WATER PIPING AND JOINTS **ABOVE GRADE**  
**PIPE 2" AND SMALLER:**

A. TYPE 1: HARD DRAWN SEAMLESS COPPER TUBE (ASTM 8 88) AND CAST COPPER ALLOY FITTINGS (ASME B16.18) WITH LEAD FREE 95-5 TIN/SILVER SOLDER JOINTS (ASTM B 32).

B. TYPE 1: DRAWN-TENSION COPPER TUBE (ASTM 8 88) WITH PRESSURE-SEAL JOINT FITTINGS (CAST-BRASS, CAST-BRONZE OR WROUGHT-COPPER) WITH EPDM O-RING SEAL ON EACH END. 200 PSI WORKING PRESSURE AT 250° F.

**VALVES:**

1. PROVIDE TWO-PIECE, BRONZE OR BRASS BODY, FULL PORT, 600 PSI WOG, BALL TYPE SHUT-OFF VALVES WITH BLOW-OUT PROOF STEMS AND ADJUSTABLE PACKING GLANDS. VALVES SHALL BE LEAD FREE PER NSF 61, AND MEET ALL REQUIREMENTS. INSTALL VALVES IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS.

## PIPE INSULATION

1. DOMESTIC WATER PIPING INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVES ARE REQUIRED TO MEET A FLAME-SPREAD RATING OF 25 OR LESS AND A SMOKE-DEVELOPED RATING OF 50 OR LESS, AS TESTED BY ASTM E84 (NFPA 255) METHOD AND SHALL BE PLENUM RATED. PROVIDE PVC JACKET FOR EXPOSED PIPING IN MECHANICAL ROOMS. INSULATION SHALL BE CONTINUOUS AT ALL HANGERS. PROVIDE GALVANIZED STEEL SHIELD BETWEEN PIPE HANGER AND INSULATION

INSTALLATION:

1. PROTECT COPPER PIPING AGAINST CONTACT WITH DISSIMILAR METALS. ALL HANGERS, SUPPORTS, ANCHORS AND CLIPS SHALL BE COPPER OR COPPER PLATED. WHERE COPPER PIPING IS CARRIED ON TRAPEZE HANGERS WITH OTHER PIPING, PROVIDE A PERMANENT ELECTROLYTIC ISOLATION MATERIAL TO PREVENT CONTACT WITH DISSIMILAR OTHER METALS.
2. PROTECT COPPER PIPING AGAINST CONTACT WITH ALL MASONRY. WHERE COPPER IS SLEEVED THROUGH MASONRY, PROVIDE COPPER OR RED BRASS SLEEVES. WHERE COPPER MUST BE CONCEALED IN OR AGAINST MASONRY PARTITIONS, PROVIDE A HEAVY COATING OF ASPHALTIC ENAMEL ON THE COPPER PIPING AND 15# ASPHALT SATURATED FELT BETWEEN THE PIPING AND THE MASONRY PARTITION.
3. DOMESTIC WATER PIPING SHALL BE SLOPED FOR DRAINAGE WITH DRAIN VALVES INSTALLED AT LOW POINTS.
4. INSULATE DOMESTIC WATER DISTRIBUTION SYSTEMS (HOT AND COLD) USING COPPER TUBE/PIPE WITH GLASS FIBER INSULATION HAVING A VAPOR BARRIER AND CANX D OR C JACKING.
5. PIPE INSULATION CONDUCTIVITY SHALL NOT EXCEED 0.27 BTU-IN/IN PER FT. FOLLOW SCHEDULE BELOW:

SERVICE TYPE	PIPE SIZES	THICKNESS	R-VALUE
DOMESTIC HOT WATER (SUPPLY & RETURN)	1/2" - 3/4"	1"	8.7
DOMESTIC HOT WATER (SUPPLY & RETURN)	1" - 1 1/4"	1 1/2"	812.5
DOMESTIC HOT WATER (SUPPLY & RETURN)	1 1/2" - 4"	1 1/2"	R11
DOMESTIC COLD WATER	1/2" - 1 1/4"	1"	8.65
DOMESTIC COLD WATER	1 1/2" - 4"	1"	86.5
6. STERILIZE THE DOMESTIC WATER SYSTEM IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION'S SPECIFICATIONS AND LOCAL HEALTH DEPARTMENT REGULATIONS.
7. DOMESTIC WATER SUPPLY PIPING SHALL BE TESTED AND PROVED WATERTIGHT UNDER A WATER PRESSURE OF NO LESS THAN THE WORKING PRESSURE OF THE SYSTEM, OR AN AIR TEST OF NO LESS THAN ONE HUNDRED (100) PSI. THIS PRESSURE SHALL BE HELD FOR AT LEAST FIFTEEN (15) MINUTES. WATER USED IN TESTING SHALL BE OBTAINED FROM A PORTABLE SOURCE OF SUPPLY.
8. BALANCE THE DOMESTIC HOT WATER CIRCULATION SYSTEM TO THE PERFORMANCE SPECIFICATIONS

SCHIER GB-1500 OR APPROVED EQUAL BY MIFAB. 1500 GALLON LIQUID CAPACITY AT A FLOW RATE OF 200 GPM AND A GREASE CAPACITY OF 9,446 LBS. POLYETHYLENE CONSTRUCTION, AND 6" INLETS AND OUTLETS. PROVIDE MANWAYS TO MEET INVERT DEPTH AND H-20 CAST IRON TRAFFIC RATED MANHOLE COVERS AND FRAMES INSTALLED FLUSH WITH FINISHED GRADE. PROVIDE REINFORCED CONCRETE RELIEVING SLAB WHEN GREASE INTERCEPTOR IS LOCATED IN AREAS WITH VEHICLE ACCESS. INSTALL PER THE MANUFACTURERS INSTRUCTIONS. COORDINATE EXACT LOCATION WITH SITE UTILITY CONTRACTOR.

KITCHEN EQUIPMENT	COMPARTMENTS	QUANTITY	LENGTH (IN)	WIDTH (IN)	DEPTH (IN)	VOLUME (IN <sup>3</sup> )	C
POT SINK	3	1	21	21	14	18522	
PREPARATION SINK	1	2	24	24	12	13824	
PRE-RINSE SINK	1	1	20	20	12	4800	

NOTE: FLOW RATE AND RATING VALUES ARE BASED ON THE CITY OF RALEIGH GREASE INTERCEPTOR POLICY FOR HYDRO-MECHANICAL GREASE INTERCEPTORS.	TOTAL GPM FOR A 1 MINUTE DRAINAGE PERIOD	136
	TOTAL GPM FOR A 2 MINUTE DRAINAGE PERIOD	68

1. GENERAL AND SPECIAL CONDITIONS OF THE CONTRACT APPLY TO THE PLUMBING SCOPE OF WORK. THE PLUMBING DRAWINGS AND SPECIFICATIONS SHALL NOT BE INTERPRETED AS WAIVING OR OVERRULING ANY REQUIREMENTS EXPRESSED IN GENERAL CONDITIONS.
2. PLUMBING WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2018 NORTH CAROLINA STATE PLUMBING CODE, SCC CONSTRUCTION MANUAL, AND WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.
3. SCOPE: PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL PLUMBING SYSTEMS IN ACCORDANCE WITH ALL APPLICABLE CODES.
4. WARRANT THE SYSTEM LABOR, MATERIALS AND EQUIPMENT FOR THE TIME PERIOD SPECIFIED IN THE PROJECT MANUAL. IF NO WARRANTY SECTION IS PROVIDED, THEN WARRANT THE SYSTEM LABOR, MATERIAL AND EQUIPMENT FOR A MINIMUM OF ONE YEAR AFTER COMPLETION AND ACCEPTANCE. PRIOR TO TURNING THE COMPLETED SYSTEM OVER TO THE OWNER, REVIEW THE INSTALLATION WITH THE ARCHITECT / ENGINEER AND REPLACE OR REPAIR ANY DEFECTIVE WORKMANSHIP, EQUIPMENT AND MATERIALS AT NO ADDITIONAL COST TO THE OWNER.
5. COORDINATE ALL PLUMBING PIPING LOCATIONS, ROUGH-IN LOCATIONS AND EQUIPMENT LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES. FINAL PIPING AND EQUIPMENT LOCATIONS SHALL BE A CODE COMPLIANT INSTALLATION FOR ALL TRADES.
6. FIELD VERIFY PROPER OPERATION OF EXISTING SYSTEMS BEFORE STARTING CONSTRUCTION. NOTIFY THE ARCHITECT / ENGINEER OF RECORD OF ANY PROBLEMS OR DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS AND/OR ANY POTENTIAL PROBLEMS OBSERVED BEFORE CONTINUING WORK IN THE AFFECTED AREAS.
7. PLUMBING PLANS SHALL NOT BE SCALED. REFERENCE THE ARCHITECTURAL PLANS FOR DIMENSIONS OF ALL LOCATIONS OF PLUMBING FIXTURES, FLOOR DRAINS, COLUMNS, WALLS, DOORS, ETC.
8. WHERE DISCREPANCIES ARE FOUND IN THE DRAWINGS AND SPECIFICATIONS THE MORE STRINGENT SHALL APPLY. CONTACT ENGINEER FOR CLARIFICATION.
9. ALL CAST IRON PIPING SHALL BE MANUFACTURED IN THE UNITED STATES OF AMERICA.
10. ALL VALVES, BACKFLOW PREVENTERS, BOOSTER PUMPS, ETC. SERVING THE DOMESTIC WATER SYSTEM SHALL MEET LEAD FREE STANDARDS PER ANSIS/NSF 321 AND NSF 61, ANNEX G.

SYMBOL	ABBREVIATION	DESCRIPTION
—	CW	COLD WATER PIPING
—	HW	140°F HOT WATER PIPING
—	HWR	140°F HOT WATER RETURN PIPING
—	W	SANITARY WASTE PIPING
—	V	SANITARY VENT PIPING
— GW —	GW	GREASE WASTE PIPING
— GV —	GV	GREASE VENT PIPING
— D —	D	DRAIN PIPING (INDIRECT)
— ○ —	-	PIPING ELBOW DOWN
— ○ —	-	PIPING ELBOW UP
— } —	-	PIPING CONTINUES
— ⌵ —	-	SHUT-OFF VALVE
— ⌵ —	-	CHECK VALVE
— ⌵ —	-	BALANCING VALVE
— ⌵ —	-	PIPING REDUCER
— ⊗ —	FCO	FLOOR CLEANOUT
— ⊗ —	WCO	WALL CLEANOUT
— —	CO	PLUG CLEANOUT
— ⊗ —	FD	FLOOR DRAIN
— □ —	FS	FLOOR SINK
— — ⊕ —	HB	HOSE BIBB / WALL HYDRANT
⊗	-	CONNECT TO EXISTING
⊗	-	POINT OF DISCONNECT

<u>ADDITIONAL ABBREVIATIONS</u>			
AFB	ABOVE FINISHED FLOOR	MSF	MANUFACTURER
AFG	ABOVE FINISHED GRADE	PSI	POUNDS PER SQUARE INCH
BFB	BELOW FINISHED FLOOR	T&P	TEMPERATURE AND PRESSURE
CLG	CUBIC FEET PER HOUR	TW	TEMPERED WATER
CLG	CEILING	TYP	TYPICAL
CONT	CONTINUATION	UG	UNDERGROUND
DN	DOWN	VTR	VENT THRU ROOF
GPF	GALLONS PER FLUSH	WC	WATER COLUMN
GPM	GALLONS PER MINUTE	EC	ELECTRICAL CONTRACTOR
HP	HORSE POWER	FSC	FOOD SERVICE CONTRACTOR
INV	INVERT ELEVATION	GC	GENERAL CONTRACTOR
KW	KILOWATT	MC	MECHANICAL CONTRACTOR
MBH	1,000 BRITISH THERMAL UNIT / HOUR	PC	PLUMBING CONTRACTOR

<b>C401 METHOD OF COMPLIANCE</b>	
<input type="checkbox"/> 2018 NCEC CHAPTER 4	<input type="checkbox"/> COMCHECK PROVIDED (2018 NCEC)
<input type="checkbox"/> ASHRAE 90.1-2013 PRESCRIPTIVE	<input type="checkbox"/> COMCHECK PROVIDED (90.1-2013)
<input type="checkbox"/> ASHRAE 90.1-2013 PERFORMANCE	<input type="checkbox"/> ENERGY MODELING DATA PROVIDED
<input type="checkbox"/> N/A (EXISTING LIGHTING, HVAC, AND DOM. WATER HEATING SYSTEMS TO REMAIN)	
<b>C406 ADDITIONAL EFFICIENCY PACKAGE OPTIONS</b>	
<input type="checkbox"/> C406.2 EFFICIENT MECH EQUIPMENT	<input type="checkbox"/> C406.5 ON-SITE RENEWABLE ENERGY
<input checked="" type="checkbox"/> C406.3 REDUCED LTG DENSITY	<input type="checkbox"/> C406.6 DEDICATED OA SYSTEM
<input type="checkbox"/> C406.4 ENHANCED LTG CONTROLS	<input type="checkbox"/> C406.7 SERVICE WATER HEATING

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**C408 - SYSTEM COMMISSIONING**

☐ PROJECT AREA IS LESS THAN 10,000 SQUARE FEET AND IS EXEMPT FROM THE SYSTEM COMMISSIONING REQUIREMENTS OF SECTION C408.

☒ PROJECT AREA IS GREATER THAN 10,000 SQUARE FEET AND REQUIRES SYSTEM COMMISSIONING PER SECTION C408.

P0.01	PLUMBING LEGEND, INDEX, AND NOTES
P1.01	LEVEL 01 - PLUMBING DRAINAGE PLAN - DEMOLITION
P1.02	LEVEL 01 - PLUMBING DRAINAGE PLAN - NEW WORK
P1.03	LEVEL 02 - PLUMBING DRAINAGE PLAN - NEW WORK
P1.04	LEVEL 02 - PLUMBING DRAINAGE PLAN - DEMOLITION
P1.05	LEVEL 03 - PLUMBING DRAINAGE PLAN - NEW WORK
P2.01	LEVEL 03 - PLUMBING SUPPLY PLAN - DEMOLITION
P2.02	LEVEL 03 - PLUMBING SUPPLY PLAN - NEW WORK
P4.01	ENLARGED KITCHEN PLUMBING PLANS - NEW WORK
P5.01	PLUMBING DETAILS
P5.02	WASTE & VENT RISER DIAGRAMS
P5.03	DRYING SYSTEM DIAGRAM

**From:** FOG <fatOG.FOG@raleighnc.gov>  
**Sent:** Thursday, August 21, 2025 1:43 PM  
**To:** Ryan Heitmann  
**Cc:** FOG; Sanders, Courtney; Frederick, Matthew  
**Subject:** 4600 Trinity Rd, Wendell H Murphy

Murphy Dining Renovation.xls; [68-1500 Hydro-mechanical grease](#)  
interceptor.pdf

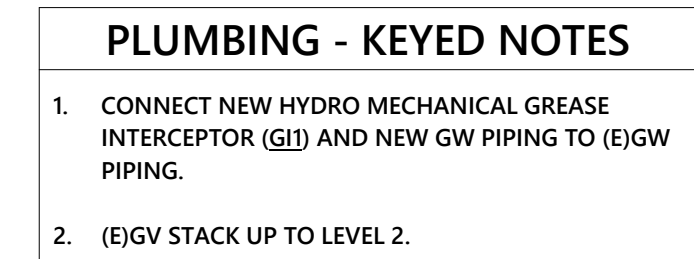
Raleigh Water Fats, Oil, and Grease offers no objection to Wendell H. Murphy Football Center located at 4600 Trinity Road, Raleigh, NC 27607 installing a 1,500 gallon single use grease interceptor. The grease interceptor shall conform to 25 detail. All grease interceptors shall be completely pumped out at a minimum frequency of once per thirty (30) calendar days, unless a variance issued by Raleigh Water is allowed for less frequent pumping or a pretreatment discharge permit has been issued specifically for these devices.

**C. DeCarlo Sanders**  
Utilities Analyst  
City of Raleigh  
Public Utilities | Raleigh Water  
Sewer Maintenance Division  
Raleigh, NC 27604  
919-996-2334 (office) | 919-280-1300 (mobile)  
[Courtney.Sanders@raleighnc.gov](mailto:Courtney.Sanders@raleighnc.gov)

**From:** Ryan Heitmann <[rheitmann@optimaengineering.com](mailto:rheitmann@optimaengineering.com)>  
**Sent:** Thursday, August 21, 2025 12:34 PM  
**To:** FOG <[FatOG.FOG@raleighnc.gov](mailto:FatOG.FOG@raleighnc.gov)>  
**Subject:** RE: FOG approval for a project at NCSU 4600 Trinity Rd, Raleigh, NC 27607

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you verify that the attachment and content are safe. If you believe this email is suspicious, please click the 'Report Message' button in the banner to report this message.

Good afternoon,  
I am formally requesting FOG approval for a grease interceptor replacement for commercial kitchen renovation at 4600 Trinity Road, Raleigh, NC 27607. The existing plans show a 1500 gallon concrete precast interceptor installed below grade in the building's loading dock. We are specifying a new Schier GB-1500 HDPE hydro-mechanical grease interceptor. We are planning to



**Architect**  
CRA Associates, Inc.  
100 Europa Drive, Suite 565  
Chapel Hill, NC 27517

**Sports Design / Interiors**  
HKS, Inc.  
2100 E. Cary Street, Suite 100  
Richmond, VA 23223

**Structural**  
Bennett & Pless  
5430 Wade Park Blvd., Suite 400  
Raleigh, NC 27601

MEP/FP  
Optima Engineering  
134 Fayetteville Street, Suite 2450  
Raleigh, NC 27601  
NC License Number: C-0914

**Food Service**  
Foodesign  
220 N Ames St., Suite 101  
Matthews, NC 28105



## Wendell H. Murphy Football Center - Kitchen Renovation

CO ID: 24-28146-01A  
 CUSU Project #: 202320015  
 Code: 42324 Item: 305  
 CUSU Building #:135F

al/signature



v	date	description
	08/29/2025	ADDENDUM :

use of these plans and specifications shall be restricted to the original site purpose for which they were prepared and publication thereof is expressly limited to such use. Re-use, reproduction, modification, or publication by any method, in whole or in part, is prohibited and the recipient shall defend, indemnify and hold the architect harmless from and against any losses arising therefrom. Title and all ownership rights in the plans and specifications remain in the architect without prejudice. It is to be returned on request to the architect. Any use, including oral contact, with these plans and specifications shall constitute prima facie evidence of acceptance of the foregoing.

06/23/25

CD

sued for BID

Project number	230
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**LEVEL 01 -  
PLUMBING  
DRAINAGE PLAN -  
NEW WORK**

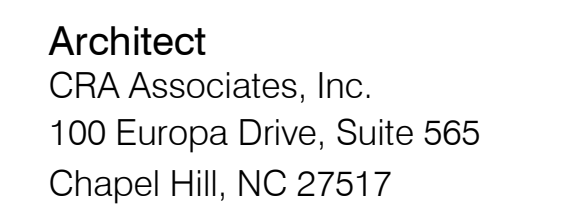
Sheet number

## P1.02





PTIMA# 24-0096R Sheet No. 6 of 12



**Structural**  
Bennett & Pless  
5430 Wade Park Blvd., Suite 400  
Raleigh, NC 27601

**Food Service**  
Foodesign  
220 N Ames St., Suite 101  
Matthews, NC 28105



SCO ID: 24-28146-01A  
NCSU Project #: 202320015  
Code: 42324 Item: 305  
NCSU Building #:135F

seal/signature

NORTH CAROLINA  
PROFESSIONAL  
SEAL  
043866  
ENGINEER  
DANIEL A. REVILLA  
08/29/2025

rev	date	description
1	08/29/2025	ADDENDUM 2

The use of these plans and specifications shall be restricted to the original site purpose for which they were prepared and publication thereof is expressly limited to such use. Re-use, reproduction, modification, or publication by any method, in whole or in part, is prohibited and the recipient shall defend, indemnify and hold the architect harmless from and against any losses arising therefrom. Title and all ownership rights to the plans and specifications remain in the architect without prejudice. It is to be returned upon request to the architect. Any use, including visual contact, with these plans and specifications shall constitute prima facie evidence of acceptance of the foregoing.

date	06/23/25
phase	CD
issued for	BID
project number	2308

## PLUMBING DETAILS

sheet number

## P5.01

OPTIMA# 24-0096R      Sheet No. 10 of 12

