

March 2, 2015

TO: ALL BIDDERS OF RECORD

RE: H59-6060-MJ: Horry Georgetown Grand Strand Culinary Building Construction

ADDENDUM #2

The following items shall take precedence over the drawings and specifications for the above named project and shall become part of the Contract Documents. Where any item called for in the specifications, or indicated on the drawings is not supplemented hereby, the original requirements shall remain in effect. Where any original item is amended, voided, or suspended hereby, the provisions of such item not specifically amended, voided or superseded, shall remain in effect.

PROJECT MANUAL:

Section 092423

Add 3.01-D-1 as noted below:

1. Use No. 8 drill-point screws wafer head corrosion-resistant, 1-1/4" or 1-5/8" long, complying with ASTM C 1002. Spacing shall be per sheathing panel manufacturers' specifications for the local wind zone requirements.

Section 093000

Add 2.2-A-5 as noted below:

5. Cutting of porcelain tile to curved edges or other intricate designs shall be by waterjet.

Section 102800

Add to 1.2-A item 3 as noted below:

3. Folding Shelf

Revise 102800-"2.5 FABRICATION" to "2.6 FABRICATION" and insert new 2.5 "FOLDING SHELVES" as below:

2.5 FOLDING SHELVES

A. Folding shelf: Provide where indicated on drawings.

1. Basis of Design: Pentair Model AA35SHLF1218
2. Description: Folding shelf that locks automatically into horizontal position when raised.
3. Width: 12 inches
4. Length: 18 inches.
5. Capacity: 150 lbs.
6. Material and finish: Sheet steel, No. 4 finish (satin)

Section 211313:

On page 211313-1, revise paragraph 1.2.A to read:

Comply with the following requirements:

On page 211313-3, revise paragraph 2.2.A.2 to read:

Schedule 10 galvanized steel pipe: ASTM A-135 pipe, UL listed for sprinkler systems. Fittings shall be UL listed mechanical grooved joint couplings. Mechanical couplings for main sprinkler piping shall be rigid type coupling. Provide flexible couplings only where required.

Section 220523:

On page 220523-1, revise paragraph 1.4.D to read:

2012 International Plumbing Code.

Section 260510:

On page 260510-6,

Remove 1.2, 26 – Section 271101 Equipment Racks

Remove 1.2, 27 – Section 271300 Communication Backbone Cabling

Remove 1.2, 28 – Section 271500 Communications Horizontal Cabling

Remove 1.2, 29 – Section 281300 Access Control

Remove 1.2, 30 – Section 282300 Video Surveillance

Section 260944:

On page 260944-2, revise section Part 2, 2.1, A.

Add: "4. Crestron"

Section 271101:

Remove Spec Section 271101 Communication Equipment Racks from the project manual.

Section 271300:

Remove Spec Section 271300 Communications Backbone Cabling from the project manual.

Section 271500:

Remove Spec Section 271500 Communications Horizontal Cabling from the project manual.

Section 281300:

Remove Spec Section 281300 Access Control from the project manual.

Section 282300:

Remove Spec Section 282300 Video Surveillance from the project manual.

Section 283111:

On page 283111-3, revise section Part 2, 2.2, E.

Remove: "6. Display system status on graphic annunciator."

On page 238111-6, revise section Part 2, 2.7, C.

Revise to read: "Horns: Electric-vibrating-polarized type, 24-V dc; with provision for housing the operating mechanism behind a grille. Comply with UL 464. Horns shall produce a sound-pressure level of 90 dBA, measured 10 feet (3 m) from the horn, using the coded signal prescribed in UL 464 test protocol.

1. Color by Architect

Section 313116:

Add Section 313116 "Termite Control" in its entirety. The four pages of this section attached to this addendum in Adobe.pdf format.

DRAWINGS:**Sheet S4.5, Section 1/S4.5:**

There are three steel tube sections called out as "HSS 5x3x1/4" (ROLLED)" to the left side of the steel framing section. Revise these three notes to read "HSS 5x3x3/16" (ROLLED)".

Sheet P402

Sheet P402 – Plumbing Domestic Water & Gas Enlarged Views **Reissued**. Detail 3/P-402 has been added. Revised sheet in Adobe.pdf format attached to this Addendum.

Sheet E001

Sheet E001 – Electrical Legend & Notes **Reissued**. General note added regarding removal of IT/AV/Security cabling from this contract. (This is further clarified in Project Manual revisions noted in Project Manual section of this addendum.) Revised sheet in Adobe.pdf format attached to this Addendum.

Sheet E003

Sheet E003 Detail 2 – Partial Fire Riser Diagram, Fire Alarm System General Notes, Section 2, A) to read: "SOUND ALL AUDIBLE DEVICES (CHIMES, **HORNS**, BELLS, ETC.) AND FLASH ALL VISUAL DEVICES (LIGHTS OR STROBES) THROUGHOUT THE ENTIRE FACILITY."

Sheet E050

The contractor shall provide a prepared space for all blank circuit designations in panelboard schedules.

Sheet E060

The contractor shall provide a prepared space for all blank circuit designations in panelboard schedules.

Sheet E060

Revise Enclosure type of all kitchen located panels to Nema 4X cover.

Sheet E504

Add floorbox to support presentation lectern in Demo Auditorium 122C. The floorbox shall contain a floor mounted GFCI duplex receptacle and a floor mounted phone/data outlet. Circuit receptacle to K6:61. Coordinate final location of floorbox with the Owner/Architect.

Sheet E505

Sheet E505 – Bistro Bar Kitchen Equipment Schedule revise Unit ID 1-137:

DESCRIPTION to read: "BEVERAGE COUNTER WITH SINK"

ELECTRICAL – VA to read: "180 VA"

RESPONSE TO QUESTIONS:

1. Specification 283111 2.2. D 11 Speaks of monitoring the door of a defibrillator. Are monitoring one? If so, where is it located?

Defibrillator equipment is not currently in job scope. Requirements regarding the interconnection of defibrillator equipment to the fire alarm system would only apply in the event that the owner/architect chooses to include this equipment through a project revision at a later date.

2. Specification 283111 2.2 E Speaks of a Graphic Annunciator. Are we to provide one? Where?

This reference to a graphic annunciator has been removed from the spec section. Refer to Project Manual Section of Addendum 2.

3. Specification 283111 2.7 C is describing speakers. Are we to install speaker/strobes or horn/strobes?

The contractor shall provide horn/strobes. Refer to Project Manual Section of Addendum 2.

4. AIM modules are shown to connect to what is described as "Shunt Trip Output of HVAC Controllers". Are we monitoring the state of a shunt trip controller or providing an input for the shunt trip action to take place on an alarm?

Each hood controller has an output contact which will provide a signal to an AIM during a hood controller alarm condition. The AIM will activate the building fire alarm and activate the shunt trip feature of the corresponding shunt trip circuit breakers.

5. Are the roof top duct detectors to be installed inside of the HVAC units or on the exterior of the unit? If on the exterior duct work the units must be "Weather Proof".

NFPA-72 Table 14.4.3.2 tells us the method in which we are to test initiating devices. To Test a duct smoke detector you must use smoke and verify that the unit will properly sample the air stream to produce an alarm. Remote Test Stations as you have specified cannot be used to test a duct detector much less be used to certify one. Remote alarm indicators would be required for duct smoke detectors that cannot be seen from a normal viewing position. Above ceilings, on roofs, etc.

Duct mounted smoke detectors are shown on E111 – Roof Electrical Plan to establish a clear relationship between the duct mounted smoke detector and the HVAC unit that it is designed to protect. The final location of all duct mounted smoke detectors shall be coordinated with the mechanical contractor and in accordance with NFPA 72. Refer to sheet M701 'Mechanical Control Diagrams' for further clarification regarding location of duct mounted smoke detectors.

6. Page 075419 Section 1.2 A and Page 075417 Section 2.2 refer to the PVC Roofing as KEE. We would like to clarify that you are looking for Fabric or fleece back PVC with the KEE Elvaloy versus a standard fabric / fleece back PVC sheet?

We are looking for adhered Fleece back PVC, as best installation for wind zone, and KEE as added grease protection due to large amount of kitchen equipment.

7. Page 075419-5 Section 2.4 A-1 States the minimum thickness as 105 mils - Is this minimum thickness to include membrane and the fabric / fleece, or just the membrane itself?

This dimension includes both fabric and membrane.

8. Detail 9/M503 indicates a Mechanical Pipe Support but the location and quantity are not shown on the Mechanical nor Structural drawings.

Please see Project Manual sections 220511 and 230529. Both sections refer to accepted standards for spacing of supports. Actual locations must be determined in field based on installed locations of structural components and coordination with all trades.

9. On page p 101 (domestic water and gas plans) in the mechanical room M-1 , could you provide an enlarge piping plan of the Mechanical room M – 1 for the water and gas that shows pipe sizes for the WH – 1 gas water heater , but also for the TMV – 1 and HWC– 1, 2. I know detail 5 / P 502 shows the piping arrangements but the piping layout for the mechanical room will be most helpful and appreciated.

See sheet P-04 Re-issue in Drawing section of addendum above (revised sheet attached as pdf to this addendum)

10. A stucco subcontractor has contacted us & is questioning the need for mechanical fasteners to the soffit system in section 092423 to accommodate the weight of the ¾" of stucco to prevent sagging & or failure. The spec does not call for this to be mechanically fastened. Can we get a more detailed section of the system?

Use No. 8 drill-point screws wafer head corrosion-resistant, 1-1/4" or 1-5/8" long, complying with ASTM C 1002. Spacing shall be per sheathing panel manufacturers' specifications for the local wind zone requirements.

11. Sheet C-008 Sidewalk Detail (Within R/W) calls for 4" GABS Base & Fiber reinforced concrete. Detail 4/A001 does not call for a stone base & calls for W.W.F. reinforcing. Is C-008 detail only for sidewalk within the right-of-way & 4/A001 for sidewalks not in the ROW? If so, is the property line or setback line considered to be the right-of-way line?

Base for exterior all concrete pavement shall be as specified in Section 030000 of the Project Manual and detailed in Civil Drawings.

Detail 4/A-001 is meant for joint and stone edging detailing.

Wire reinforcing inside the property line, which is the edge of rights-of-way, shall be used.

Fibermesh reinforcing shall be used at all walks outside of the property line. There will be some overlap of this directive due to angled walkways. Transition shall be made at joint lines, with fibermesh reinforcing encroaching over into property to joint line. Do not use wire reinforcing inside the rights-of-way.

12. Reference Drawing A-721, the Porcelain Tile in the Lobby that transitions from square edge to a curve. Can the tile with the curve be cut on site or does water jet cutting need to be priced?

Cutting of curved or other intricate shapes shown on Drawings for the porcelain tile shall be cut using a waterjet.

13. OSE Form 00201 page 9 of 9 section 9.7 states that bidders are to carry Builders Risk Insurance unless provided otherwise by the contract documents. OSE Form 00811 page 12 of 21 section 3.85 states unless otherwise provided the contractor shall purchase builders risk insurance. Economic Development Administration Contracting Provisions for Construction Projects section 13b states insurance normally required includes Builder's Risk. The AIA A-201 document is not included in the contract documents. Due to the ambiguity of the language in the above referenced sections, I would like a definitive answer if Builders Risk Insurance is to be provided by the General Contractor.

Builders Risk Insurance by the General Contractor shall be required for this project.

14. Will the Owner or the contractor be responsible for tap fees?

The Owner will pay required tap fees for this project.

SUBSTITUTION REQUESTS:

064023 Interior Architectural Woodwork

M.R. Dishman and Sons is **Not Approved** as an acceptable supplier for this specification.

064116 Plastic Laminate Face Architectural Cabinets

M.R. Dishman and Sons is **Not Approved** as an acceptable supplier for this specification.

072119 Foamed in Place Insulation

NCFI is **Approved** as an acceptable supplier for this specification.

074213.24

Abrams Architectural Products is **Approved** as a supplier for this specification.

081416 Flush Wood Doors

Lambton Doors is **Approved** as an acceptable supplier for this specification.

084229 Automatic Entrances

GyroTech is **Approved** as an acceptable product for this specification.

084513 Structured Polycarbonate Panel System

Crystal Structures polycarbonate panel system is **Approved** as an acceptable product for this specification.

084523 Insulated Translucent Fiberglass Sandwich Panel Wall Assemblies

CPI Daylighting Quadwall System is **Approved** as an acceptable product for this specification.

084523 Insulated Translucent Fiberglass Sandwich Panel Wall Assemblies

Crystal Structures is **Not Approved** as an acceptable product for this specification.

099000 Painting

Rose Talbert Paint is **Approved** as an acceptable product for this specification.

102239 Folding Panel Partitions

Sunflex is **Approved** as an acceptable product for this specification.

107113 Exterior Sun Control Devices

American Warming and Ventilating (AMW) is **Approved** as an acceptable supplier for this specification.

ASCA Inc. is **Approved** as an acceptable supplier for this specification.

Peachtree Protective Covers is **Approved** as an acceptable supplier for this specification.

108200 Extruded Aluminum Adjustable Wall Louvers

American Warming and Ventilating (AMW) is **Approved** as an acceptable supplier for this specification.

114000 Food Service Equipment

Dewey's Service Company is **Not Approved** as a supplier for this specification.

Southbend is **Not Approved** as a supplier for this specification. (items 31-133, 31-134, 28-129, 28-132, 22-129, 22-132, 21-129, 21-132)

Jade Range, LLC. is **Not Approved** as a supplier for this specification. (items 21-129, 21-132, 57-143, 28-129, 28-132, 22-129, 22-132)

Beech Ovens is **Not Approved** as a supplier for this specification. (item 56-143)

Southern Equipment Fabricators, Inc., of Columbia, SC is **Approved** as a fabricator for this specification.

Section 23

Aquatherm products are **Not Approved** as an alternate for plumbing piping.

233713 Diffusers, Registers and Grilles

Nailor is **Approved** as an acceptable product for this specification.

233600 Air Terminal Units

Jonson Controls (York) is **Approved** as an acceptable product for this specification.

237313 Modular Central-Station Air-Handling Units

Johnson Controls (York) is **Approved** as an acceptable product for this specification.

236426 Variable Speed Air Cooled Rotary-Screw Water Chillers

Johnson Controls (York) is **Approved** as an acceptable product for this specification.

END OF ADDENDUM #2

SECTION 313116 - TERMITE CONTROL

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.
- B. Related Sections
 - 1. Section 033000 - Cast in Place Concrete

1.2 SUMMARY

- A. Section Includes:
 - 1. Soil treatment with termiticide.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of termite control product.
 - 1. Include the EPA-Registered Label for termiticide products.

1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For qualified Installer.
- B. Product Certificates: For termite control products, from manufacturer.
- C. Soil Treatment Application Report: After application of termiticide is completed, submit report for Owner's records and include the following:
 - 1. Date and time of application.
 - 2. Moisture content of soil before application.
 - 3. Termiticide brand name and manufacturer.
 - 4. Quantity of undiluted termiticide used.
 - 5. Dilutions, methods, volumes used, and rates of application.
 - 6. Areas of application.
 - 7. Water source for application.
- D. Treatment Application Report: After application of termiticide is completed, submit report for Owner's records and include the following:

1. Date and time of application.
2. Termiticide brand name and manufacturer.
3. Quantity of undiluted termiticide used.
4. Dilutions, methods, volumes used, and rates of application.
5. Areas of application.

E. Warranties: Sample of special warranties.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: A specialist who is licensed according to regulations of authorities having jurisdiction to apply termite control treatment and products in jurisdiction where Project is located, and who employs workers trained and approved by manufacturer to install manufacturer's products.
- B. Regulatory Requirements: Formulate and apply termiticides according to the EPA-Registered Label.
- C. Source Limitations: Obtain termite control products from single manufacturer.

1.6 PROJECT CONDITIONS

- A. Environmental Limitations: To ensure penetration, do not treat soil that is water saturated or frozen. Do not treat soil while precipitation is occurring. Comply with requirements of the EPA-Registered Label and requirements of authorities having jurisdiction.
- B. Coordinate soil treatment application with excavating, filling, grading, and concreting operations. Treat soil under footings, grade beams, and ground-supported slabs before construction.

1.7 WARRANTY

- A. Soil Treatment Special Warranty: Manufacturer's standard form, signed by Applicator and Contractor, certifying that termite control work, consisting of applied soil termiticide treatment, will prevent infestation of subterranean termites. If subterranean termite activity or damage is discovered during warranty period, re-treat soil and repair or replace damage caused by termite infestation.

1. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 SOIL TREATMENT

- A. Termiticide: Provide an EPA-Registered termiticide, complying with requirements of authorities having jurisdiction, in an aqueous solution formulated to prevent termite infestation. Provide quantity required for application at the label volume and rate for the maximum termiticide concentration allowed for each specific use, according to product's EPA-Registered Label.
1. Products: Subject to compliance with requirements, provide products listed below or equal:
- | | |
|---------------|----------------|
| a. Aldrin: | 0.5% solution |
| b. Dieldrin: | 0.5% solution |
| c. Heptachlor | 0.5% solution |
| d. Lindane | 0.5% solution. |

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Applicator present, for compliance with requirements for moisture content of soil per termiticide label requirements, interfaces with earthwork, slab and foundation work, landscaping, utility installation, and other conditions affecting performance of termite control.
- B. Proceed with application only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. General: Comply with the most stringent requirements of authorities having jurisdiction and with manufacturer's written instructions for preparation before beginning application of termite control treatment. Remove all extraneous sources of wood cellulose and other edible materials such as wood debris, tree stumps and roots, stakes, formwork, and construction waste wood from soil within and around foundations.
- B. Soil Treatment Preparation: Remove foreign matter and impermeable soil materials that could decrease treatment effectiveness on areas to be treated. Loosen, rake, and level soil to be treated except previously compacted areas under slabs and footings. Termiticides may be applied before placing compacted fill under slabs if recommended in writing by termiticide manufacturer.
1. Fit filling hose connected to water source at the site with a backflow preventer, complying with requirements of authorities having jurisdiction.

3.3 APPLICATION, GENERAL

- A. General: Comply with the most stringent requirements of authorities having jurisdiction and with manufacturer's EPA-Registered Label for products.

3.4 APPLYING SOIL TREATMENT

- A. Application: Mix soil treatment termiticide solution to a uniform consistency. Provide quantity required for application at the label volume and rate for the maximum specified concentration of termiticide, according to manufacturer's EPA-Registered Label, to the following so that a continuous horizontal and vertical termiticidal barrier or treated zone is established around and under building construction. Distribute treatment evenly.
 - 1. Slabs-on-Grade: Under ground-supported slab construction, including footings, building slabs, and attached slabs as an overall treatment. Treat soil materials before concrete footings and slabs are placed.
 - 2. Foundations: Adjacent soil, including soil along the entire inside perimeter of foundation walls; along both sides of interior partition walls; around plumbing pipes and electric conduit penetrating the slab; around interior column footers, and piers; and along the entire outside perimeter, from grade to bottom of footing. Avoid soil washout around footings.
 - 3. Masonry: Treat voids of foundation walls; treat where exterior facings or veneers extend below grade level along exterior side of foundation walls.
 - 4. Penetrations: At expansion joints, control joints, and areas where slabs will be penetrated.
- B. Avoid disturbance of treated soil after application. Keep off treated areas until completely dry.
- C. Protect termiticide solution, dispersed in treated soils and fills, from being diluted until ground-supported slabs are installed. Use waterproof barrier according to EPA-Registered Label instructions.
- D. Post warning signs in areas of application.
- E. Reapply soil treatment solution to areas disturbed by subsequent excavation, grading, landscaping, or other construction activities following application.

END OF SECTION 313116

FLOOR PLAN SHEET NOTES:

GENERAL NOTES:

- 1 SEE DOMESTIC WATER & GAS PLAN FOR CONTINUATION.
- 2 PROVIDE PRESSURE REGULATOR FROM 2 PSI TO 10" WC. VENT REGULATOR TO EXTERIOR OR PROVIDE LISTED REGULATOR COMPLIANT WITH ANSI Z21.80.
- 3 PROVIDE MANUAL GAS SHUTOFF VALVE INTERLOCKED WITH KITCHEN HOOD FIRE SUPPRESSION SYSTEM.
- 4 REFER TO SPECIFICATIONS FOR UNDERGROUND GAS PIPING MATERIAL. PROVIDE 3" SCHEDULE 40 BLACK STEEL CONTAINMENT CONDUIT WITH WELDED FITTINGS FOR UNDERGROUND GAS PIPING. PROVIDE COATING TO PROTECT CONTAINMENT CONDUIT FROM CORROSION. ROUTE VENT IN WALL UP TO ROOF AND TERMINATE WITH WEATHERPROOF VENT CAP AND INSECT SCREEN.



REVISIONS:

No.	Description	Date
1	Bld Addendum #2	02/27/15

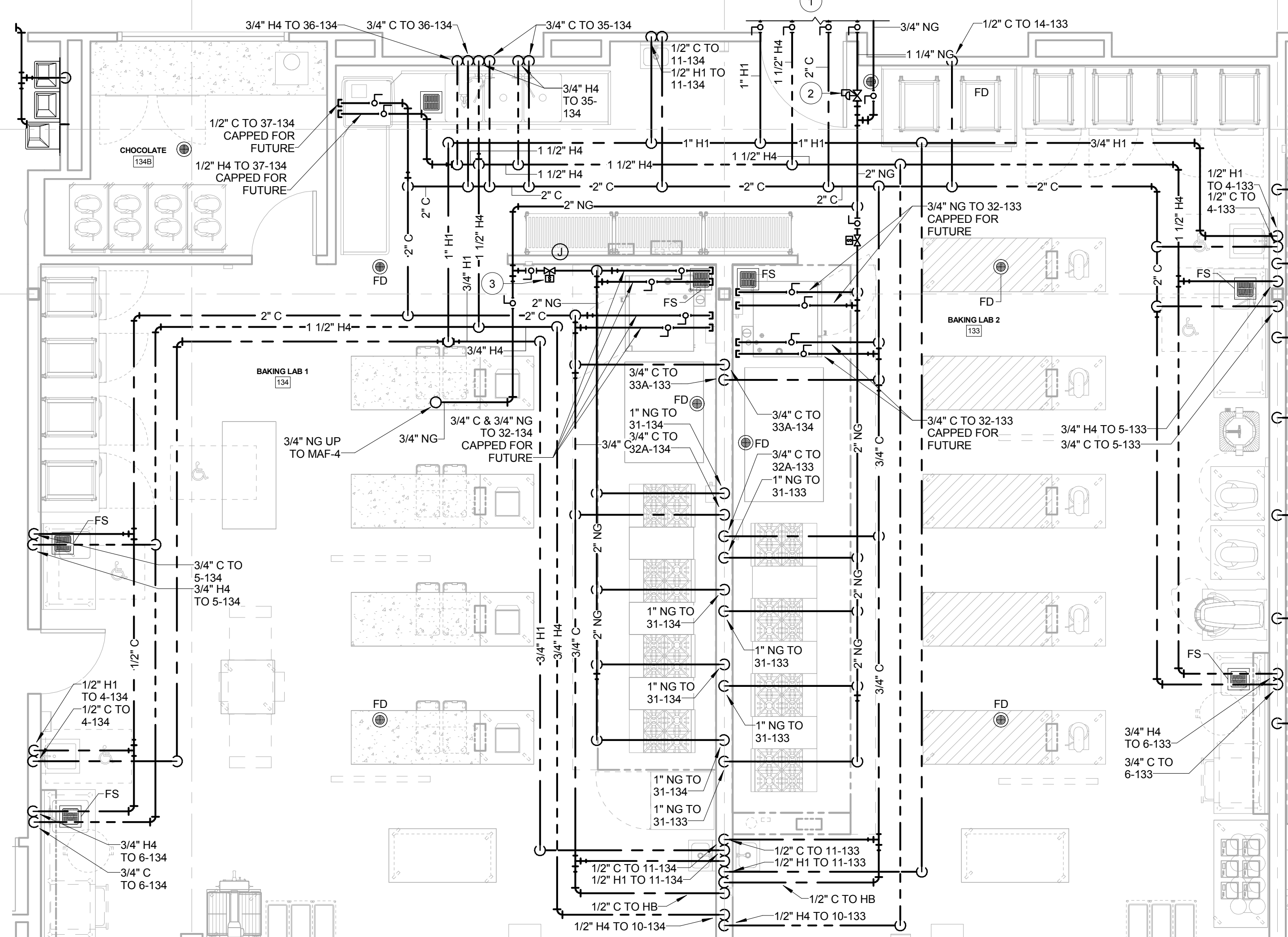
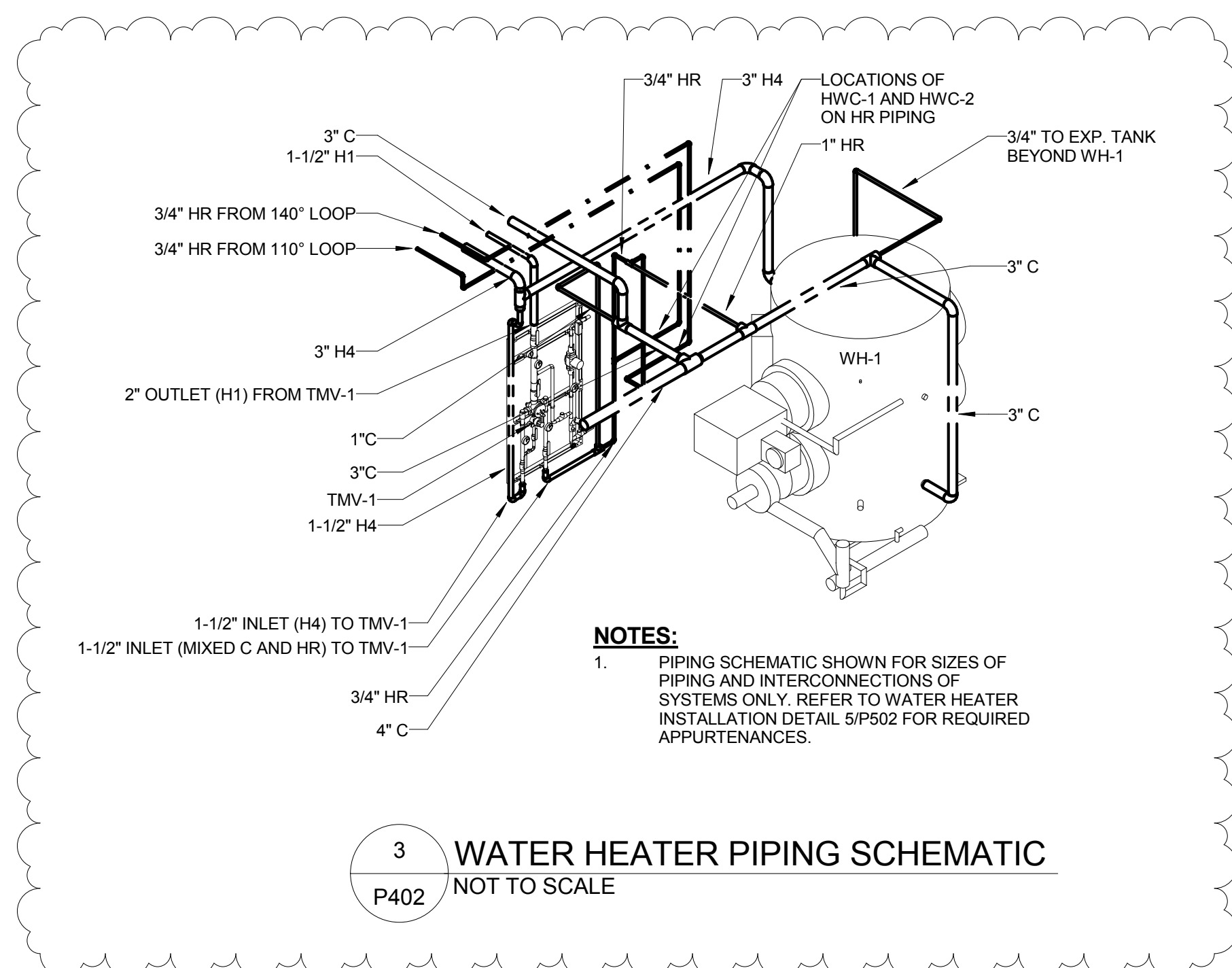
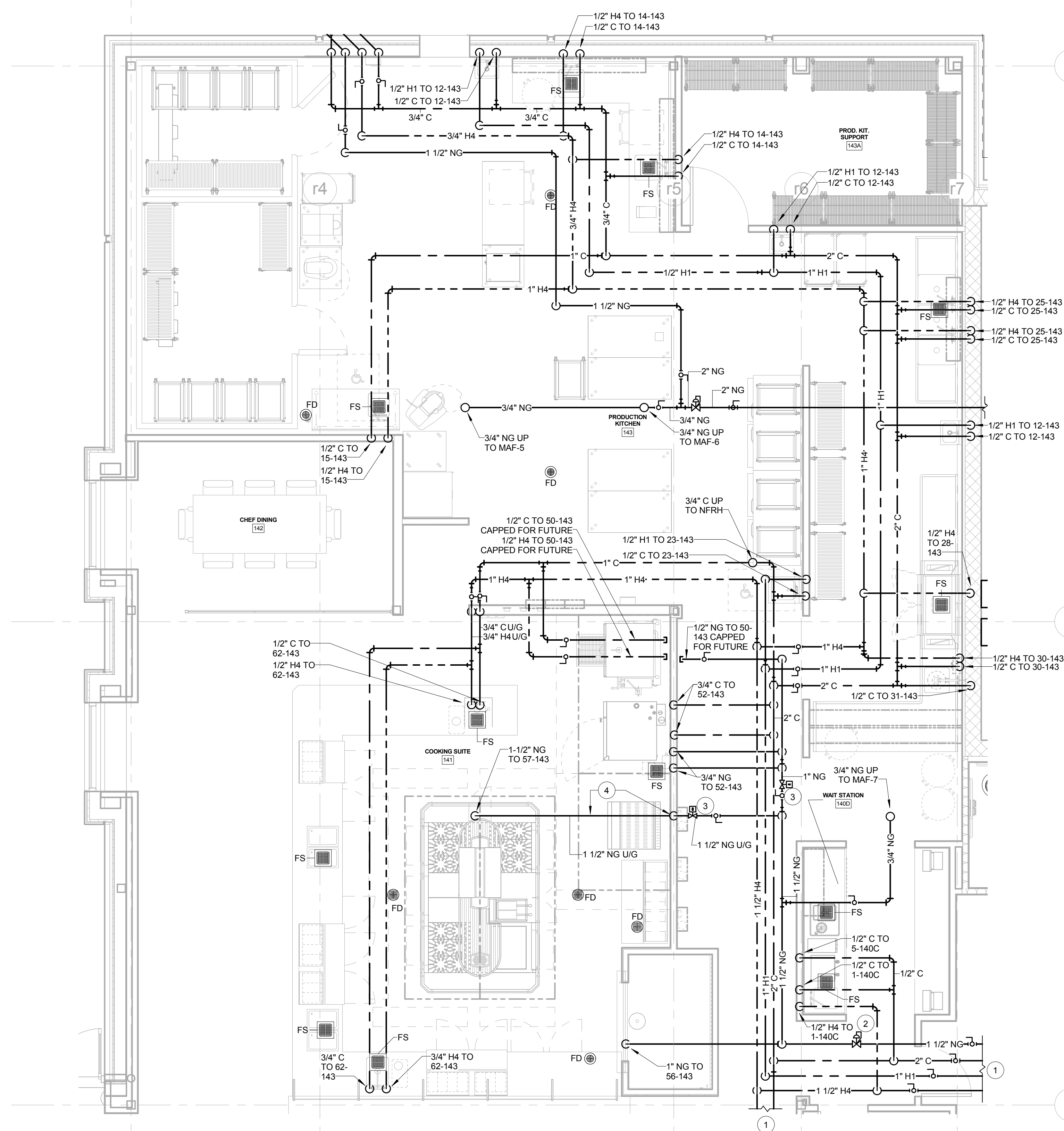
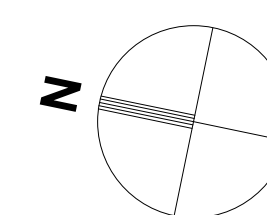
OSE PROJECT NUMBER: H59-6060-MJ
DATE: OCTOBER 28, 2014
DRAWN BY: KJMM
CHECKED BY: MGWPLUMBING
DOMESTIC
WATER & GAS
ENLARGED
VIEWS

P402

SOLUTIONS THROUGH LISTENING

SERVICE BY DESIGN

CONSTRUCTION DOCUMENTS

1 ENLARGED PASTRY BAKING LAB 1 AND PASTRY BAKING LAB 2 DOMESTIC WATER AND GAS PLAN
P402 SCALE: 1/4" = 1'-0"3 WATER HEATER PIPING SCHEMATIC
P402 NOT TO SCALE2 ENLARGED PRODUCTION KITCHEN 143 AND WAIT STATION 140C DOMESTIC WATER AND GAS PLAN
P402 SCALE: 1/4" = 1'-0"

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E

GENERAL "ELECTRICAL" NOTES

- BRANCH CIRCUIT WIRING SHALL BE NO. 12 AWG UNLESS NOTED OTHERWISE. WHERE CONDUCTOR AND RACEWAY SIZE ARE SHOWN AT HOMERUN, SUCH SIZE SHALL BE USED FOR THE ENTIRE CIRCUIT. EXCEPTION: FINAL CONNECTION TO DEVICES, IN OUTLET BOXES, IS NOT REQUIRED TO BE LARGER THAN NO. 12 AWG.
- 20A/120V BRANCH CIRCUITS EXCEEDING 100' IN LENGTH FROM PANEL TO FARTHEST DEVICE OR FIXTURE SHALL USE NO. 10 CONDUCTORS AND 3/4".
- PRIOR TO ROUGH-IN, COORDINATE THE LOCATION AND MOUNTING HEIGHT OF ALL WALL MOUNTED DEVICES WITH THE ARCHITECTURAL INTERIOR ELEVATIONS, MILLWORK SHOP DRAWINGS, AND EXISTING CONDITIONS. IN THE EVENT OF A CONFLICT, NOTIFY THE ARCHITECT. MINOR ADJUSTMENTS IN DEVICE LOCATION, I.E. 5'-0" IN ANY DIRECTION SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
- COORDINATE THE LOCATION OF ALL FLOOR-MOUNTED OUTLETS WITH THE ARCHITECT PRIOR TO ROUGH-IN.
- WHERE DEVICES ARE REQUIRED TO BE IDENTIFIED, PROVIDE ENGRAVED PLATE USING 1/8" HIGH BLACK LETTERS.
- OUTLET BOXES FOR SWITCHES, RECEPTACLES, ETC. MOUNTED ON OPPOSITE SIDES OF FIRE RATED PARTITIONS SHALL NOT BE MOUNTED IN THE SAME WALL CAVITY. SEPARATE WALL PENETRATIONS BY MOUNTING ON OPPOSITE SIDES OF WALL STUDS OR OTHER VERTICAL STRUCTURAL MEMBER IN THE WALL.
- INSTALL SURFACE METAL RACEWAY SO AS TO MINIMIZE THE NUMBER OF VERTICAL RUNS. CONCEAL RACEWAY ABOVE LAY-IN CEILING AND IN NEW WALLS TO THE GREATEST EXTENT POSSIBLE.
- RACEWAYS SHALL BE INSTALLED CONCEALED IN NEW WALL CONSTRUCTION ABOVE CEILINGS, BELOW FLOOR, AND IN OTHER CAVITIES TO THE GREATEST EXTENT POSSIBLE. WHERE EXPOSED RACEWAYS MUST BE USED, LAYOUT RACEWAYS TO MINIMIZE THE NUMBER OF VERTICAL RUNS.
- FEEDER CONDUITS, BRANCH CIRCUITS AND CABLE TRAY ROUTING SHALL COMPLY WITH DETAILS ON DRAWINGS AND SHALL BE COORDINATED AND ADJUSTED AS REQUIRED WITH THE WORK OF OTHER TRADES BEFORE AND DURING CONSTRUCTION.
- WHERE LIGHT SWITCH AND ABOVE COUNTER RECEPTACLES ARE INDICATED TO BE MOUNTED ADJACENT TO EACH OTHER, THE DEVICES SHALL BE MOUNTED AT THE SAME HEIGHT UNDER A COMMON DEVICE PLATE. IN THE CASE WHERE THE VOLTAGES ARE DIFFERENT, THEY SHALL BE MOUNTED IN DIFFERENT OUTLET BOXES.
- THE ARRANGEMENT, GROUPING, AND ROUTING OF BRANCH CIRCUITS SHALL BE PROVIDED AT THE CONTRACTOR'S DISCRETION IN ACCORDANCE WITH GENERALLY ACCEPTED PRACTICE FOR ELECTRICAL WORK, THE NATIONAL ELECTRICAL CODE REQUIREMENTS, LOCAL ORDINANCES, AND THE FOLLOWING:
- 11.1 A COMMON NEUTRAL MAY BE INSTALLED IN A HOMERUN FOR 2 OR 3 BRANCH CIRCUITS ONLY IF A MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUITS ORIGINATE IS PROVIDED PER ARTICLE 210-4(B) OF THE NATIONAL ELECTRICAL CODE.
- 11.2 MULTIPLE SINGLE-POLE BRANCH CIRCUITS (UP TO 3 HOT'S, 3 NEUTRALS, 1 GROUND) RATED FOR 30-AMPS OR LESS MAY BE PULLED INTO A SINGLE RACEWAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING THE RACEWAYS AND DERATING CONDUCTORS PER NEC ARTICLE 310.15.
- 11.3 BRANCH CIRCUIT AND FEEDER CIRCUIT CONDUITS SHALL BE ROUTED OVERHEAD UNLESS PRIOR APPROVAL HAS BEEN GRANTED BY THE ARCHITECT AND ENGINEER.
- 11.4 A GROUND CONDUCTOR SHALL BE PROVIDED IN ALL RACEWAYS UNLESS NOTED OTHERWISE.
- 12 SEE THE ARCHITECTURAL DRAWINGS FOR ALL LOCATIONS OF FIRE RATED WALLS.
- 13 COORDINATE THE ROUTING OF UNDERGROUND CONDUCTORS/CONDUIT WITH STRUCTURAL FOOTINGS OF BUILDING.
- 14 WHERE FLOOR MOUNTED RECEPTACLES/DEVICES ARE GROUPED, PROVIDE DEVICES GROUPED IN ONE FLOOR BOX.
- 15 OUTLET BOXES SHALL BE EXTRA DEEP, BOX DEPTH SHALL BE WALL THICKNESS IF POSSIBLE. INDUSTRY STANDARDS SHALL BE USED IF WALL THICKNESS DEPTH IS NOT POSSIBLE.
- 16 THE USE OF MC CABLE IS ALLOWED IN CONCEALED LOCATIONS ONLY AND ONLY FOR 20 AMP BRANCH CIRCUITS.
- 17 PROVIDE FLEXIBLE CONDUIT FOR ALL CONDUITS CROSSING EXPANSION JOINTS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF EXPANSION JOINTS.

GENERAL "KITCHEN" NOTES

- INTERLOCK SHUNT TRIP BREAKERS ON ALL EQUIPMENT UNDER THE HOOD AND INTERLOCK THE GAS SOLENOID VALVE WITH THE KITCHEN HOOD SUPPRESSION SYSTEM TO CUT POWER TO EQUIPMENT AND CLOSE GAS SOLENOID VALVE WHEN THE SUPPRESSION SYSTEM IS TRIPPED.
- PROVIDE ALL INTERLOCKS REQUIRED FOR KITCHEN HOOD SUPPRESSION SYSTEM INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - SHUNT TRIP BREAKERS TO DISCONNECT ALL ELECTRICAL LOADS UNDER THE EXHAUST HOOD SHALL BE INTERLOCKED WITH THE SUPPRESSION SOLENOID.
 - INTERLOCK KITCHEN HOOD SUPPRESSION SYSTEM CONTROL PANEL TO ACTIVATE FIRE ALARM SYSTEM WHEN TRIPPED.
- WHERE DISCREPANCIES EXIST BETWEEN KITCHEN PROVIDER ROUGH-IN INFORMATION & ROUGH-IN INFORMATION PROVIDED ON THESE PLANS, CONTRACTOR SHALL FOLLOW PROVIDER'S OF KITCHEN PROVISIONS.
- CONTROLS CONTRACTOR SHALL PROVIDE COOLER AND FREEZER SENSOR ALARMS TO ALERT COLLEGE FACILITIES WHEN POWER IS DISCONNECTED. COORDINATE WITH CCU STAFF TO DETERMINE APPLICABLE FREEZER AND COOLER LOCATIONS. NOTIFICATION SYSTEM SHALL BE CAPABLE OF SENDING ALERTS VIA TEXT MESSAGE TO CELLULAR DEVICES.

GENERAL "LIGHTNING PROTECTION" NOTES

- PROVIDE A COMPLETE LIGHTNING PROTECTION SYSTEM FOR THIS BUILDING. REFER TO SPECIFICATIONS.
- PROVIDE U.L. LISTED LIGHTNING PROTECTION SYSTEM.

SEISMIC REQUIREMENTS FOR ELECTRICAL SYSTEMS

PER IBC-2012/ASCE 7-10

- A. EQUIPMENT, APPLIANCES AND SUPPORTS (INCLUDING ROOF CURBS & ROOF RAILS) EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE. WHERE SEISMIC RESTRAINT IS REQUIRED, THE MORE DEMANDING FORCE OF WIND AND SEISMIC MUST BE USED. SEE SEISMIC INFORMATION CONTAINED IN THE STRUCTURAL DRAWINGS FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY, SEE EQUIPMENT SCHEDULES AND DETAILS FOR SPECIFIC COMPONENT IMPORTANCE FACTOR DESIGNATIONS.
- B. USE APPLICABLE TABLE BELOW TO DETERMINE SEISMIC RESTRAINT REQUIREMENTS FOR EACH MECHANICAL COMPONENT.
- C. FOR ALL COMPONENTS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL. SUBMITTALS MUST INCLUDE STAMPED AND SIGNED DRAWINGS AND CALCULATIONS.
- D. WHERE SEISMIC RESTRAINT IS REQUIRED, HOUSEKEEPING PADS NEEDED FOR THE INSTALLATION OF EQUIPMENT UNDER THIS CONTRACT MUST BE DESIGNED BY THE SEISMIC ENGINEER. DO NOT POUR ANY HOUSEKEEPING PADS PRIOR TO THE RECEIPT OF THE SEISMIC SUBMITTAL.
- E. SEISMIC RESTRAINTS FOR CONDUIT, CABLE TRAY, AND BUS DUCT MUST BE SHOWN ON LAYOUT DRAWINGS SHOWING SPECIFIC RESTRAINT LOCATIONS ALONG WITH ACCOMPANYING DETAILS AND CALCULATIONS.
- F. REFER TO ASCE 7-10 FOR SEISMIC INSTALLATION GUIDELINES.

ELECTRICAL COMPONENT IMPORTANCE FACTOR (Ip) DESIGNATION

Ip = 1.0	Ip = 1.5
ALL ASSOCIATED ELECTRICAL WORK UNLESS NOTED OTHERWISE.	- EMERGENCY LIGHTS - EXIT LIGHTS

SEISMIC DESIGN CATEGORIES D,E,F

COMPONENT IMPORTANCE FACTOR (Ip)				
1.0		1.5		
COMPONENT IDENTIFICATION	SEISMIC RESTRAINT REQUIREMENT	NOTES	SEISMIC RESTRAINT REQUIREMENT	NOTES
ROOF MOUNTED	RESTRAIN ALL	1	RESTRAIN ALL	-
FLOOR MOUNTED	RESTRAIN ALL	1.2	RESTRAIN ALL	-
WALL MOUNTED	RESTRAIN ALL	1.2	RESTRAIN ALL	-
COMPONENT SUPPORTS	RESTRAIN ALL	1.2	RESTRAIN ALL	-
SUSPENDED EQUIPMENT	RESTRAIN ALL	1	RESTRAIN ALL	-
SINGLE CONDUIT				
CABLE TRAY/BUS DUCT TRAPEZOID CONDUIT	RESTRAIN IF ANY CONDUIT ON TRAPEZE > 3" RESTRAIN IF TOTAL WEIGHT OF SUSPENDED COMPONENT > 10 LBS/FT	3.4	RESTRAIN IF ANY CONDUIT ON TRAPEZE > 1" RESTRAIN IF TOTAL WEIGHT OF SUSPENDED COMPONENT > 10 LBS/FT	4
COMPONENT CERTIFICATION (SEE NOTE 5)	NOT REQUIRED	-	REQUIRED	-
PENDANT, LAY-IN, & CAN LIGHTS	REQUIRED	-	REQUIRED	-

- NOTES:
- EQUIPMENT 20 LBS. OR LESS IS EXEMPT IF FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
 - RESTRAINTS ARE NOT REQUIRED IF THE COMPONENT WEIGHS 400 LBS. OR LESS, IS MOUNTED AT 4 FT. OR LESS ABOVE A FLOOR, AND HAS FLEXIBLE CONNECTIONS BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
 - ALL NON-DUCTILE PIPING (I.E. - PLASTIC) MUST BE RESTRAINED.
 - RESTRAINT IS NOT REQUIRED IF SUSPENDED 12" OR LESS FROM THE STRUCTURE AND THE HANGERS ARE DETAILED TO AVOID SIGNIFICANT BENDING OF THE HANGERS AND THEIR ATTACHMENTS AND PROVISIONS ARE MADE FOR PIPING TO ACCOMMODATE EXPECTED DEFLECTIONS.
 - COMPONENT CERTIFICATION MUST BE SUPPLIED BY THE EQUIPMENT MANUFACTURER AT TIME OF SUBMITTAL FOR REVIEW BY ENGINEER OF RECORD.
 - THE RESTRAINT OF PENDANT, LAY-IN, & CAN LIGHTS IS GOVERNED BY "CISCA-04 FOR SEISMIC ZONES" (CEILINGS AND INTERIOR SYSTEMS CONSTRUCTION ASSOCIATION).

GENERAL "SIGNAL" NOTES

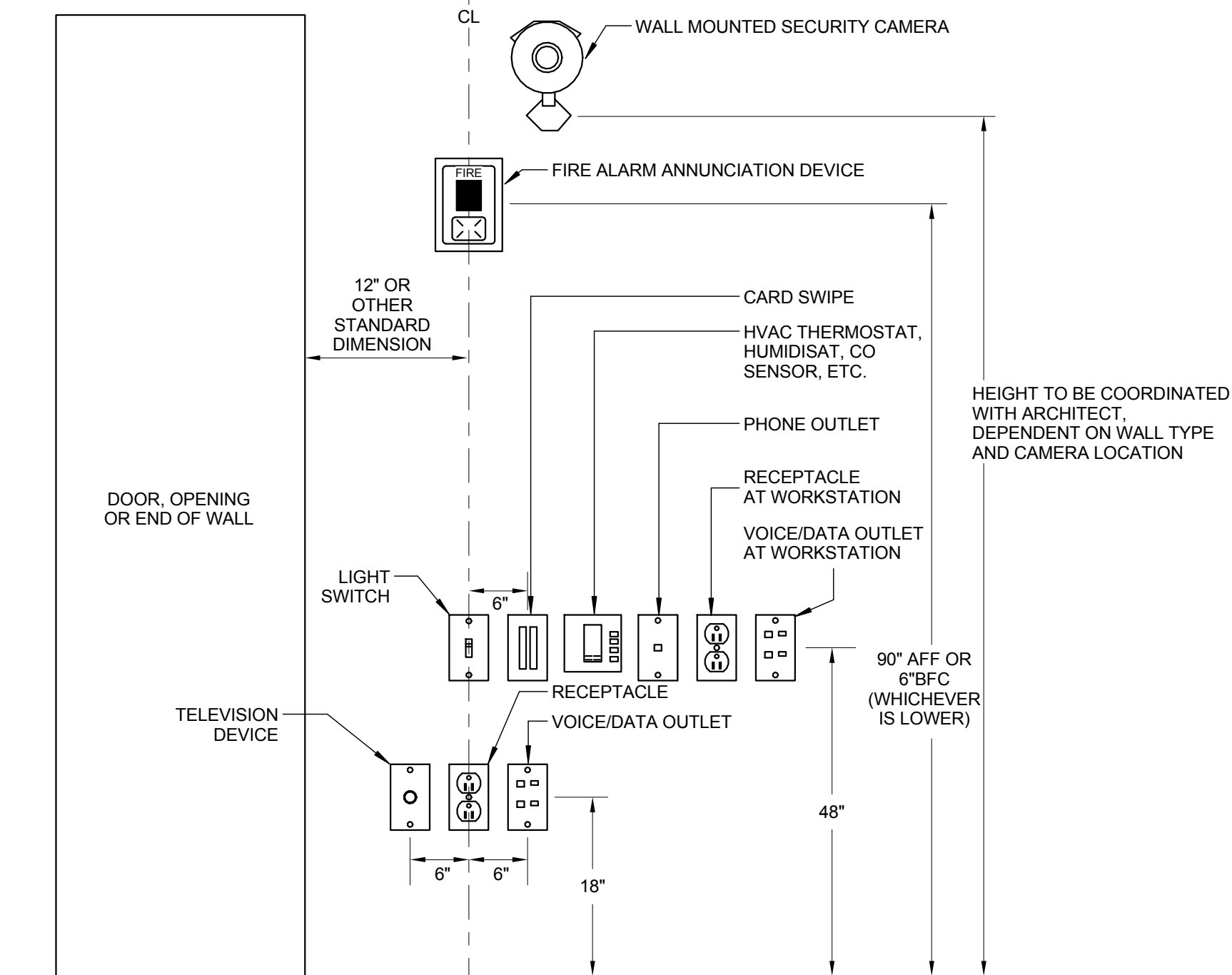
- CONTROLS CONTRACTOR TO PROVIDE CONDUIT FOR HVAC CONTROL CIRCUITS AS REQUIRED TO INTER-CONNECT HVAC UNIT TO CONTROL CIRCUITS. CONTROLS CONTRACTOR TO PROVIDE MECHANICAL CONTRACTOR TO DETERMINE SCOPE OF CONDUITS REQUIRED FOR HVAC CONTROLS, COORDINATE POINTS OF CONNECTION WITH DIVISION 23. PROVIDE PULL CORD IN ALL EMPTY CONDUITS. SEE MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL HVAC EQUIPMENT (AHU, HP, CU, RTU, DUCT SMOKE DETECTORS, VAV, FCU, THERMOSTATS, ETC).
- COMMUNICATION BACKBOARD (COPPER BUSS BAR) SHALL BE 8"X 4"X 1/4" PLYWOOD WITH THE BOTTOM AT 8" AFF, EXTEND A NO. 6 BARE COPPER GROUNDING CONDUCTOR FROM THE ELECTRICAL SERVICE GROUND TO THE BACKBOARD AND LEAVE WITH SUFFICIENT SLACK TO REACH ANY PLACE THEREON. COAT BACKBOARD WITH A MINIMUM OF TWO COATS OF FIRE RETARDANT PAINT.
- EXTEND A 1" CONDUIT WITH PULL WIRE FROM EACH COMMUNICATIONS OUTLET TO THE COMMUNICATION BACKBOARD OR (ABOVE THE LAY IN CEILING - JHOOK TO NEAREST CABLE TRAY), TURN CONDUIT 12" INTO CEILING CAVITY A MINIMUM OF 6" ABOVE THE CEILING AND TERMINATE WITH AN INSULATED THROAT BUSHING.
- PROVIDE ALL DUCT SMOKE DETECTORS AND ACCESSORIES NECESSARY FOR INTERLOCKING WITH MECHANICAL EQUIPMENT (AHU'S, SMOKE DAMPERS, ETC). COORDINATE WITH MECHANICAL PLANS FOR LOCATIONS AND REQUIREMENTS.
- THESE DOCUMENTS MAY NOT INCLUDE ENTIRE ELECTRICAL INFRASTRUCTURE REQUIRED TO SUPPORT THE BUILDING AUTOMATION SYSTEM. COORDINATE WITH THE ARCHITECT ON ALL NECESSARY INFRASTRUCTURE FOR A COMPLETE AND WORKING SYSTEM.
- THE MAIN TELECOMMUNICATIONS GROUNDING BUSBAR SHALL BE A PRE-DRILLED COPPER BUSBAR WITH STANDARD NEMA BOLT HOLE SIZING THAT IS NO SMALLER THAN 6MM THICK BY 100MM WIDE BY 1 FOOT LONG. THE MTGB SHALL BE BONDED TO THE BUILDING SERVICE GROUND AND ALL TELECOMMUNICATIONS METALLIC RACEWAYS LOCATED IN THE SAME ROOM. MTGB CONNECTIONS SHALL BE LISTED TWO HOLE COMPRESSION TYPE.
- A 4AWG INSULATED COPPER CONDUCTOR RUNNING FROM THE MTGB TO ALL OTHER TGB'S SHALL CONSTITUTE THE TELECOMMUNICATIONS BONDING BACKBONE (TBB).
- EACH TGB SHALL BE A PRE-DRILLED COPPER BUSBAR WITH STANDARD NEMA BOLT HOLE SIZING THAT IS NO SMALLER THAN 6MM THICK BY 50MM WIDE BY 1 FOOT LONG. CONNECTIONS SHALL BE LISTED TWO HOLE COMPRESSION TYPE.
- ALL FIRE ALARM CABLE SHALL BE INSTALLED IN METALLIC CONDUIT. COORDINATES WITH FIRE ALARM SYSTEM MANUFACTURER FOR CABLE ROUTING AND QUANTITIES.
- ALL COMMUNICATION DROPS SHALL BE UNSPLINED HOME RUNS FROM DEVICE PLATE TO THE COMMUNICATION RACK LOCATION. PROVIDE 10 FEET OF COILED CABLE AT RACK LOCATION FOR OWNERS USE. COORDINATE WITH HGTC IT DEPARTMENT FOR COMMUNICATION RACK LOCATION.
- ALL VOICE AND DATA COMMUNICATION CABLES SHALL BE LESS THAN 295 FEET LONG.
- ALL COMMUNICATION CABLING SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND EIA/TIA STANDARDS.
- CABLE SHALL BE CONCEALED IN ALL FINISHED AREAS AND ROUTED PARALLEL OR PERPENDICULAR TO THE BUILDING STRUCTURE.
- PROVIDE 1/2" CONDUIT TO ABOVE THE LOCAL ACCESSIBLE CEILING FOR ALL COMMUNICATION WALL MOUNTED DEVICES. PROVIDE SLEEVES SIZED FOR 40% EXPANSION THROUGH CORRUGATED WALLS.
- WHEN LOCATED NEXT TO A DATA DEVICE "C" DENOTES 6" ABOVE COUNTER OR 42" AFF UNO.
- CONTRACTOR SHALL ABIDE BY HORRY GEORGETOWN TECHNICAL COLLEGE IT AND AV CABLING INFRASTRUCTURE DESIGN GUIDELINE.
- LABELING OF EQUIPMENT RACKS, TERMINATION HARDWARE, AND FACEPLATES: ALL COMMUNICATIONS EQUIPMENT RACKS, CABINETS, FIBER ENCLOSURES, AND TERMINATION HARDWARE SHALL BE CLEARLY LABELED AT THE TOP, LEFT-HAND CORNER OF THE EQUIPMENT.

GENERAL "LIGHTING" NOTES

- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR THE EXACT LOCATION OF ALL CEILING MOUNTED LIGHTING FIXTURES.
- EXACT LOCATIONS OF LIGHTING FIXTURES IN MECHANICAL SPACES SHALL BE DETERMINED IN THE FIELD. DO NOT SUPPORT FIXTURES FROM DUCT OR PIPING. PROVIDE CHAIN OR TRAPEZE-TYPE HANGERS WHERE FIXTURES CAN NOT BE MOUNTED DIRECTLY TO CEILING.
- LIGHTING FIXTURE CATALOG NUMBERS ARE INDICATIVE OF THE STYLE OF FIXTURE REQUIRED. CONTRACTOR SHALL PROVIDE FIXTURES WITH THE PROPER TRIM, VOLTAGE AND OPTIONS NECESSARY FOR INSTALLATION.
- DOUBLE-FACED EXIT FIXTURES SHALL BE OF THE SAME MANUFACTURER & SERIES AS THE SINGLE TYPE SPECIFIED.
- REGARDLESS OF CATALOG NUMBER INDICATED IN SCHEDULE, PROVIDE BATTERY PACKS OR CONNECTION TO LIGHTING INVERTER FOR ALL FIXTURES AS INDICATED ON THE DRAWINGS FOR EMERGENCY TYPE. BATTERY PACKS SHALL BE CAPABLE OF PROVIDING DESIGNED ILLUMINATION LEVELS FOR A DURATION OF 1.5 HOURS. BOTH LAMPS OF A (2) LAMP FIXTURE SHALL BE SERVED BY THE EMERGENCY BALLAST, OUTBOARD LAMPS OF (3) AND (4) LAMP FIXTURES SHALL BE SERVED BY THE EMERGENCY BALLAST.
- REGARDLESS OF HOW NOTED ON PLANS, ALL EMERGENCY LIGHTING FIXTURES INDICATED IN PRIVATE SPACES SHALL BE WIRED SO AS TO BE SWITCHED "ON/OFF" WITHOUT OPERATING THE EMERGENCY BALLAST. ALL EMERGENCY LIGHTING FIXTURES INDICATED IN PUBLIC SPACES OR MEANS OF EGRESS (CORRIDORS, LOBBIES, BATHROOMS, AUDITORIUMS, STAIRWELLS, ETC.) SHALL BE WIRED AHEAD OF LOCAL SWITCH AS A NIGHT LIGHT AND SHALL NOT BE SWITCHED. EMERGENCY BALLAST SHALL NOT BE ACTIVATED UNLESS A LOSS OF NORMAL BUILDING POWER OCCURS.
- REGARDLESS OF CATALOG NUMBER INDICATED IN SCHEDULE, ALL EXIT SIGNS SHALL BE PROVIDED WITH A BATTERY PACK, SHALL BE WIRED AHEAD OF LOCAL SWITCH AND SHALL NOT BE SWITCHED.
- ALL FLUORESCENT FOUR FOOT LIGHT FIXTURES SHALL BE EQUIPPED WITH PROGRAMMABLE START TRIAD ENERGY SAVING INSTANT START SERIES ELECTRONIC BALLASTS, OR APPROVED EQUAL, AND 4100K INSTANT-START LAMPS.
- ALL COMPACT FLUORESCENT LIGHT FIXTURES SHALL BE EQUIPPED WITH PROGRAMMABLE START ELECTRONIC COMPACT FLUORESCENT BALLASTS, OR APPROVED EQUAL, AND 4100K, 82 CRI LAMPS.
- WHERE INBOARD/OUTBOARD SWITCHING IS INDICATED, OUTBOARD LAMP(S) SHALL BE KEYS FROM ONE SWITCH AND INBOARD LAMP(S) FROM THE OTHER. THE SWITCH NEAREST THE DOOR SHALL SWITCH THE OUTBOARD LAMPS.
- MOUNT UNDER CABINET FIXTURE TO UNDERSIDE OF SURFACE USING SPACERS TO PROVIDE 1/2" AIR GAP. HOLD FIXTURE 18" OFF WALL. FOR FIXTURES BELOW CABINETS, MAKE FLEXIBLE FINAL CONNECTIONS FROM JUNCTION BOX IN CEILING CAVITY ABOVE FIXTURES. DO NOT INSTALL OUTLET AT FIXTURE.
- REGARDLESS OF CATEGORY NUMBER, ALL EMERGENCY FIXTURES SHALL BE PROVIDED MEANS OF BACKUP POWER.
- REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING DETAILS OF LIGHT FIXTURE TO ACOUSTICAL CEILING SYSTEM AND STRUCTURE.

GENERAL "POWER" NOTES

- PROVIDE UTILITY TRANSFORMER PAD IN ACCORDANCE WITH UTILITY REQUIREMENTS. EXTEND CONDUIT SIZED PER PER ONE-LINE DIAGRAM FROM TRANSFORMER TO BUILDING SERVICE POINT. ELBOWS SHALL BE RIGID GALVANIZED STEEL. COORDINATE THE EXACT LOCATION OF THE PAD, MOUNTED TRANSFORMER AND UTILITY SERVICE POINT IN THE FIELD WITH THE UTILITY COMPANY. UTILITY COMPANY TO PROVIDE SECONDARY METER AT THE TRANSFORMER. ALL COSTS ASSOCIATED WITH THE PAD AND PERMITTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. FOR BIDDING PURPOSES, PROVIDE A \$150 ADDER/DEDUCT FOR VARIANCES FROM UTILITY TRANSFORMER TO SERVICE POINT.
- THE GROUND ROD CLUSTER FOR THE SERVICE GROUND SHALL CONSIST OF THREE 3/4" X 10'-0" COPPER CLAD STEEL GROUND RODS. THEY SHALL BE DRIVEN IN A TRIANGULAR CONFIGURATION APPROXIMATELY 10' APART AND INTER-CONNECTED IN DELTA WITH A NO. 40 BARE COPPER CONDUCTOR. TOPS OF THE RODS SHALL BE 12" BFG. CONNECTION TO THE RODS SHALL BE WITH EXOTHERMIC WELDS.
- ALL BRANCH CIRCUITS INDICATED ON THESE PLANS TO BE LARGER THAN NO. 12 AWG SHALL BE SIZED AS INDICATED FOR THE ENTIRE LENGTH OF THE CIRCUIT.
- WHEN A RECEPTACLE IS INDICATED TO BE MOUNTED ADJACENT TO A COMPUTER/TELEPHONE/ TELEVISION OUTLET, THE DEVICE(S) SHALL BE MOUNTED WITHIN 6" CENTER-TO-CENTER.
- STUB-UP (6) 1-INCH SPARE CONDUITS FROM EACH FLUSH MOUNTED PANELBOARD TO ABOVE FINISHED CEILING.
- PROVIDE A INSTALL AN ENGRAVED LAMINATED PLASTIC NAMEPLATE ON EACH ITEM OF MECHANICAL AND ELECTRICAL EQUIPMENT, TO INDICATE THE DESIGNATION OF THE UNIT ON THE PLANS & THE BRANCH CIRCUIT SERVING THE EQUIPMENT.
- PROVIDE NEMA CONFIGURATION RECEPTACLES TO MATCH PLUGS ON EQUIPMENT FURNISHED.
- WHERE SPEED CONTROLLER IS INDICATED TO BE PROVIDED WITH FANS, IT SHALL BE PROVIDED AND INSTALLED BY THE CONTROLS CONTRACTOR.
- PROVIDE ENGRAVED FACEPLATES USING 1/8" HIGH BLACK LETTERS ON ALL RECEPTACLES, SWITCHES & WALL MOUNTED DEVICES INDICATING PANEL AND BRANCH CIRCUIT TO WHICH EACH DEVICE IS CONNECTED.
- WHEN LOCATED NEXT TO A RECEPTACLE "C" DENOTES 6" ABOVE COUNTER OR 42" AFF UNO.



NOTES

- DEVICES SHOWN WITHIN 48" OF EACH OTHER ON ALL ELECTRICAL PLANS SHALL BE ALIGNED PER THIS DETAIL. IF DEVICES ARE SHOWN IN MIDDLE OF WALL, THEN CENTER DEVICES ON WALL.

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E001

DEVICE ALIGNMENT DETAIL
SCALE: NOT TO SCALE

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	LIGHT FIXTURE		SINGLE RECEPTACLE (GENERAL PURPOSE)
	LIGHT FIXTURE (EMERGENCY CAPACITY)		SINGLE RECEPTACLE (G.F.C.I.)
	LIGHT FIXTURE		DUPLEX RECEPTACLE (NEMA 5-20R, (IG INDICATES ISOLATED GROUND - SEE 6E003)
	LIGHT FIXTURE (EMERGENCY CAPACITY)		DUPLEX RECEPTACLE (G.F.C.I.) NEMA 5-20R (IG INDICATES ISOLATED GROUND - SEE 6E003)
	LIGHT FIXTURE		DUPLEX RECEPTACLE (CEILING MOUNTED)
	LIGHT FIXTURE (EMERGENCY CAPACITY)		DUPLEX RECEPTACLE (FLOOR BOX)
	LIGHT FIXTURE		QUADPLEX RECEPTACLE, (IG INDICATES ISOLATED GROUND - SEE 6E003)
	LIGHT FIXTURE (EMERGENCY CAPACITY)		QUADPLEX RECEPTACLE (CEILING MOUNTED)
	LIGHT FIXTURE (EMERGENCY CAPACITY)		QUADPLEX RECEPTACLE (FLOOR BOX)
	LIGHT FIXTURE		SPECIAL PURPOSE RECEPTACLE
	LIGHT FIXTURE (EMERGENCY CAPACITY)		TELEVISION CONNECTION LOCATION, (1) RG6, (3) CAT CABLES
	LIGHT FIXTURE		MOTOR CONNECTION (AS NOTED)
	LIGHT FIXTURE (EMERGENCY CAPACITY)		JUNCTION BOX (AS NOTED)
	LIGHT FIXTURE		JUNCTION BOX FOR POWER TO AUTOMATIC DOOR, MOUNT ABOVE FINISHED CEILING
	LIGHT FIXTURE (EMERGENCY CAPACITY)		JUNCTION BOX FOR POWER TO MOTORIZED SHADE POWER SUPPLY
	TRACK LIGHTING		JUNCTION BOX FOR LOW VOLTAGE TO MOTORIZED SHADE TRACK
	LIGHT FIXTURE		JUNCTION BOX FOR EXTERIOR SIGNAGE
	LIGHT FIXTURE (POLE MOUNTED)		JUNCTION BOX TO SUPPLY POWER TO ABOVE CEILING AV EQUIPMENT RACK
	EXIT SIGN, SINGLE SIDED		JUNCTION BOX, (FLOOR BOX)
	EXIT SIGN, DOUBLE SIDED		DISCONNECT SWITCH, (NON-FUSED)
	LIGHT SWITCH, SINGLE POLE		DISCONNECT SWITCH, (ENCL. CIRCUIT BREAKER)
	LIGHT SWITCH, 3 WAY TYPE		PHONE OUTLET (WALL MOUNTED)
	LIGHT SWITCH, DIGITAL (TIED TO LIGHTING CONTROL PANEL)		DATA OUTLET (WALL MOUNTED), (1) CAT 6 CABLE
	LIGHT SWITCH, DIGITALLY TIMED (0-30 MINUTES)		PHONE/DATA OUTLET (WALL MOUNTED), (3) CAT 6 CABLE
	LOWER CASE SUBSCRIBER INDICATES SWITCH-LEG		PHONE/DATA OUTLET (FLOOR BOX) (3) CAT 6 CABLES
	OCCUPANCY SENSOR (CEILING MOUNTED)		PHONE OUTLET (CEILING MOUNTED), (1) CAT 6 CABLE
	OCCUPANCY SENSOR (WALL MOUNTED)		DATA OUTLET (CEILING MOUNTED), (1) CAT 6 CABLE
	PHOTOCELL LIGHTING CONTROL		DATA OUTLET TO PROVIDE DATA TO ABOVE CEILING AV EQUIPMENT RACK, (1) CAT 6 CABLE
	THERMOSTAT		PHONE/DATA OUTLET (CEILING MOUNTED), (2) CAT 6 CABLE
	HUMIDISTAT		FIRE ALARM CONTROL PANEL
	SMOKE DETECTOR (CEILING MOUNTED)		REMOTE FIRE ALARM ANNUNCIATOR
	SMOKE DETECTOR (DUCT MOUNTED)		ADDRESSABLE INTERFACE MODULE
	HEAT DETECTOR		FIRE ALARM TAMPER SWITCH
	Wi-Fi ACCESS POINT (CEILING MOUNTED), (2) CAT 6 CABLES		FIRE ALARM FLOW SWITCH
	SURGE PROTECTION DEVICE		FIRE ALARM PRESSURE SWITCH
	HAND HOLE		FIRE ALARM PULL STATION
	SECURITY CARD READER		FIRE ALARM NOTIFICATION APPLIANCE, CIRCUIT 1 BATTERY
	CCTV CAMERA (WALL MOUNTED) PROVIDED BY HGTC		FIRE ALARM VISUAL (WALL MOUNTED)
	CCTV CAMERA (CEILING MOUNTED) PROVIDED BY HGTC		FIRE ALARM STROBE/AUDIBLE (WALL MOUNTED)
	KNOX BOX		FIRE ALARM VISUAL (CEILING MOUNTED)
	REMOTE TEST SWITCH		FIRE ALARM STROBE/AUDIBLE (CEILING MOUNTED)
	CABLE TRAY, SIZE AS INDICATED ON PLANS		SECURITY ELECTRONIC DOOR STRIKE
	SECURITY KEY PAD		SECURITY ELECTRONIC DOOR POSITION SWITCH

CABLE/JACKET COLOR SCHEDULE

DATA/VOIP	BLUE
WIRELESS	GREEN
AUDIO/VIDEO	YELLOW
VOICE	BLUE
MULTI-MODE FIBER	AQUA
BUILDING AUTOMATION	PURPLE

ELECTRICAL CODES & STANDARDS

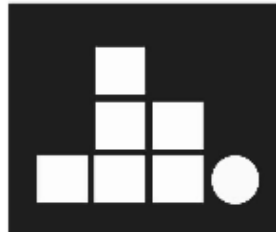
CODE	DESCRIPTION
IBC (2012)	INTERNATIONAL BUILDING CODE
IECC (2009)	INTERNATIONAL ENERGY CONSERVATION CODE
IFC (2012)	INTERNATIONAL FIRE CODE
NFPA 72 (2010)	NATIONAL FIRE ALARM CODE
NEC	NATIONAL ELECTRICAL CODE

ABBREVIATIONS

ABR	DESCRIPTION
EX	EXISTING
AF	ABOVE FINISHED CEILING
AF	ABOVE FINISHED FLOOR
AF	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
BAS	BUILDING AUTOMATION SYSTEM
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BOD	BOTTOM OF DEVICE
CB	COPPER BUSS BAR
CD	CANDELA
CLG	CEILING
EF	EXHAUST FAN
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FSD	FIRE/SMOKE DAMPER
GBB	GROUND BUSS BAR
GFIC	GROUND-FAULT CIRCUIT-INTERRUPTING
GFI	GROUND-FAULT INTERRUPTING
GFPE	GROUND-FAULT PROTECTION OF EQUIPMENT
GP	GENERAL PURPOSE
HP	HEAT PUMP
ICP	IRRIGATION CONTROL PANEL
IG	ISOLATED GROUND
J-BOX	JUNCTION BOX
MTGB	MAIN TELECOMMUNICATIONS GROUNDING BUS BAR
NEC	NATIONAL ELECTRICAL CODE
NFBS	NON-FUSED DISCONNECT SWITCH
OC	ON CENTER
RFAP	REMOTE FIRE ALARM ANNUNCIATOR PANEL
RTU	ROOF TOP UNIT
SD	SMOKE DETECTOR
SPD	SURGE PROTECTION DEVICE
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TGB	TELEPHONE GROUNDING BUSS BAR
UNO	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR
W	WITH
WH	WATER HEATER
WP	WEATHERPROOF
XFMR	TRANSFORMER



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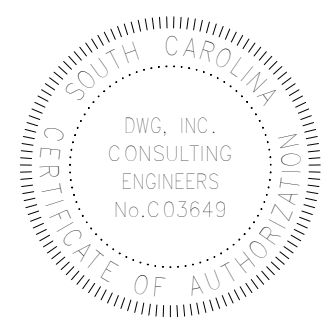


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REVISIONS:

No.	Description	Date
1	Bld Addendum #2	02/27/15

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DATE: OCTOBER 28, 2014

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ELECTRICAL NOTES & LEGENDS

E001

SOLUTIONS THROUGH LISTENING