



Forsyth County Procurement

Donna H. Kukarola, CPPO, CPPB, Director

July 7, 2020

ADDENDUM #4

RFP 20-78-1620

For: Providing all labor, equipment and materials for the construction of a new Juvenile Justice Center at 875 Lanier 400 Parkway, Cumming, GA 30040. Project includes a multi-phased site development, demolition of existing motel structures and construction of new 62,000 square foot Juvenile Court building.

This addendum supersedes and supplements all portions of the bidding documents and becomes part of the contract documents for the above-referenced project.

Where any item called for in the specifications or indicated on the drawings is supplemented hereby, the original requirements shall remain in effect.

Where any original item is amended, voided or superseded hereby, the provision of such item not so specifically amended, voided or superseded shall remain in effect.

PART 1 - Prebid Questions Received (response in ***bold italics***)

1. The Approximate Activity Schedule on sheet C140 gives tentative beginning and completion dates and makes reference to a “schedule specified in the project manual regarding information on Notice-to-Proceed and required completion dates.” Please advise on location of the said schedule in the Project Manual including the Notice-to-Proceed and required completion dates.
 - a. **RESPONSE: *This is a RFP and schedule is one of the items to be included in the submitted proposal.***
2. REFERENCE SHEETS A4.01 and A4.02: Please advise what the Keynote #E-11 is.
 - a. **RESPONSE: *Keynote #E-11 refers to Storefront System. Sheets will be revised for Addendum #4.***
3. REFERENCE SHEETS A4.02: Please advise on the CW-xx designation of the curtainwall (Keynote #E-12) at column line 19 of the North Elevation.
 - a. **RESPONSE: *CW-5 is the curtainwall system in question, is not tagged in the elevation.***
4. Item #4 on Addendum #2 states that building permit fees are by the Contractor. Is the building permit expected to be ready when the project is awarded?
 - a. **RESPONSE: *Yes***



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5. REFERENCE SPEC. SECTION 01 2200, Unit Prices, and Addendum #2, Bid Offer form: Please confirm that the total sum of unit pricing extended with the given quantities is NOT supposed to be included with the Bidder's lump sum total tender price.
 - a. **RESPONSE: Correct**
6. REFERENCE SPEC. SECTION 09 9410, Architectural Decorative Films, Item 3.04: The Project Manual states that the Contractor is to provide labor and material for decorative film found on A-7.03. However, detail 33 on sheet A-7.03 states that the Owner will provide and install all one-way decorative film. Please clarify.
 - a. **RESPONSE:**
RFI R025 references spec. section 09 9410, Architectural Decorative Films. That section does not apply to security films per dwg. A7.03 on Div 11 security glazing and instead it applies only to decorative films installed on Div 6 millwork items and on Div 8 glass.

The note on A7.03 "ONE-WAY GLAZING FILM PROVIDED AND INSTALLED BY OWNER AT ALL GLASS LITES AROUND CONTROL ROOM 141" is meant to remind the Owner, Design team and Contractor that this task needs to be done, but like other FFE items will be accomplished by the Owner late in the project. The Owner, working with a film vendor, will choose a film once final finishes and varying lighting conditions are visible in adjacent Dayroom spaces and in the Control room; including both artificial lighting and daylighting from windows.
7. Item # 1D, stamped and colored concrete, is shown next to the parking area on sheet C103, however stamped and colored concrete is not shown on the hardscape plan shown on sheet L1-00. Please clarify.
 - a. **RESPONSE: *Sheet C103 is correct. Install stamped and colored concrete in the strip as shown on C103 in phase 2 and it would remain for phase 3.***
8. Request for product approval - Georgia PreCast Solutions - Glass Fiber Reinforced Concrete
 - a. **RESPONSE: *Georgia PreCast Solutions – Glass Fiber Reinforced Concrete is qualified to be an approved manufacturer based upon their qualification statement and product information submittal.***
9. Request for Product approval - Atlas Molded Products, Foam-Control Plus+ Architectural Grade MPS
 - a. **RESPONSE: *Atlas Molded Products, Foam-Control Plus+Architectural Grade MPS is qualified to be an approved manufacturer based upon their qualification statement and product information submittal.***



PART 2 – Changes to Drawings

2-1 Sheet S-1.04 ROOF FRAMING PLAN:

1. Roof framing has been modified and adjusted to accommodate Roof Top Unit shifts and return / supply duct locations.
2. Reference sheet S-1.04 ROOF FRAMING PLAN revised under addendum #04 dated 07/07/2020.

2-2 Sheet A-2.03 LEVEL 300 - REFLECTED CEILING PLAN:

1. Revised ceiling height at Interview 352.
2. Reference sheet A-2.03 REFLECTED CEILING PLAN revised under addendum #04 dated 07/07/2020.

2-3 Sheet A-3.01 ROOF PLAN:

1. Adjusted RTU-2.1 and RTU 3.2, and associated crickets and walkway pads.
2. Reference sheet A-3.01 ROOF PLAN revised under addendum #04 dated 07/07/2020.

2-4 Sheet A-4.01 EXTERIOR ELEVATIONS:

1. Added description for keynote E-11.
2. Reference sheet A-4.01 EXTERIOR ELEVATIONS revised under addendum #04 dated 07/07/2020.

2-5 Sheet A-4.02 EXTERIOR ELEVATIONS:

1. Added description for keynote E-11.
2. Noted location of curtainwall type CW-5.
3. Reference sheet A-4.02 EXTERIOR ELEVATIONS revised under addendum #04 dated 07/07/2020.

2-7 Sheet M-0.01 MECHANICAL NOTES, SCHEDULES, & LEGEND:

1. Added note to Rooftop Unit Schedule.
2. Reference sheet M-0.01 MECHANICAL NOTES, SCHEDULES, & LEGEND revised under addendum #04 dated 07/07/2020.

2-8 Sheet M-1.03 LEVEL 300 FLOOR PLAN - MECHANICAL:

1. Adjusted RTU-2.1 and RTU 3.2 location.



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2. Adjusted ductwork in secure areas under RTU-3.2. Added keynote to address ductwork routing in structural webbing.
3. Reference sheet M-1.03 LEVEL 300 FLOOR PLAN - MECHANICAL revised under addendum #04 dated 07/07/2020.

2-9 Sheet M-3.01 ROOF LEVEL FLOOR PLAN - MECHANICAL:

1. Adjusted RTU-2.1 and RTU 3.2 location. Added keynote to address dual-sloped roof curb for RTUs-3.2 and 1.2.
2. Relocated wrongly placed keynote 1 from RTU-1.2 to RTU-2.2. Added RTU coordination note.
3. Reference sheet M-3.01 ROOF LEVEL FLOOR PLAN - MECHANICAL revised under addendum #04 dated 07/07/2020.

PART 3 – Changes to Specifications (changes are in *bold and italicized*)

3-1 Specification Section 23 7418 PACKAGED ROOFTOP AIR-CONDITIONING

1. Adjusted section 2.3.B
2. Deleted section 2.3.G
3. Adjusted section 2.4.A1
4. Reference Specification Section 23 7418 PACKAGED ROOFTOP AIR-CONDITIONING revised under addendum #04 dated 07/07/2020.

END OF ADDENDUM NO 4

SECTION 237418
PACKAGED ROOFTOP AIR-CONDITIONING UNITS

1.0 GENERAL

1.1 SUMMARY

- A. Section includes packaged, rooftop air conditioning units (RTUs) with the following components and accessories:
1. Casings.
 2. Fans.
 3. Motors.
 4. Coils.
 5. Refrigerant circuit components.
 6. Air filtration.
 7. Gas furnaces.
 8. Dampers.
 9. Electrical power connections.
 10. Controls.
 11. Accessories
 12. Roof curbs.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
1. Include details of equipment assemblies. Indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.
 2. Include diagrams for power, signal, and control wiring.

1.3 INFORMATIONAL SUBMITTALS

- A. Coordination Drawings: Plans and other details, drawn to scale and coordinated with each other, using input from installers of the items involved.
- B. Product Certificates: Submit certification that specified equipment will withstand wind forces identified in "Performance Requirements" Article and in Section 230548 "Vibration and Seismic Controls for HVAC."
- C. Seismic Qualification Data: Certificates, for RTUs, accessories, and components, from manufacturer.
- D. Field quality-control reports.

- E. Sample warranty.

1.4 CLOSEOUT SUBMITTALS

- A. Operation and maintenance data.

1.5 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of RTUs that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period for Compressors: Manufacturer's standard, but not less than five years from date of Substantial Completion.
 - 2. Warranty Period for Gas Furnace Heat Exchangers: Manufacturer's standard, but not less than 10 years from date of Substantial Completion.
 - 3. Warranty Period for Control Boards: Manufacturer's standard, but not less than three years from date of Substantial Completion.

2.0 PRODUCTS

2.1 SYSTEM DESCRIPTION

- A. AHRI Compliance:
 - 1. Comply with AHRI 340/360 for testing and rating energy efficiencies for RTUs.
 - 2. Comply with AHRI 270 for testing and rating sound performance for RTUs.
 - 3. Comply with AHRI 1060 for testing and rating performance for air-to-air exchanger.
 - 4. Comply with AHRI 210/240 for testing and rating energy efficiencies for RTUs.
- B. AMCA Compliance:
 - 1. Comply with AMCA 11 and bear the AMCA-Certified Ratings Seal for air and sound performance according to AMCA 211 and AMCA 311.
 - 2. Damper leakage tested in accordance with AMCA 500-D.
 - 3. Operating Limits: Classify according to AMCA 99.
- C. ASHRAE Compliance:
 - 1. Comply with ASHRAE 15 for refrigeration system safety.
 - 2. Comply with ASHRAE 33 for methods of testing cooling and heating coils.
 - 3. Comply with applicable requirements in ASHRAE 62.1, Section 5 - "Systems and Equipment" and Section 7 - "Construction and Startup."
- D. ASHRAE/IES 90.1 Compliance: Applicable requirements in ASHRAE/IES 90.1, Section 6 - "Heating, Ventilating, and Air-Conditioning."

- E. NFPA Compliance: Comply with NFPA 90A or NFPA 90B.
- F. UL Compliance: Comply with UL 1995.
- G. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.2 MANUFACTURERS

- A. Trane, Carrier, Daikin, JCI are approved manufacturers.

2.3 CASINGS

- A. General Fabrication Requirements for Casings: Formed and reinforced double-wall insulated panels, fabricated to allow removal for access to internal parts and components, with joints between sections sealed.
- B. ***Double-Wall Construction: Fill space between walls with 1-inch fiberglass insulation and seal moisture tight for R-4 performance.***
- C. Exterior Casing Material: Galvanized steel with factory-painted finish, with pitched roof panels and knockouts with grommet seals for electrical and piping connections and lifting lugs.
- D. Inner Casing Fabrication Requirements:
 - 1. Inside Casing: G-90-coated galvanized steel, 0.034 inch thick.
- E. Casing Insulation and Adhesive: Comply with NFPA 90A or NFPA 90B.
 - 1. Materials: ASTM C1071, Type I.
 - 2. Thickness: 1 inch.
 - 3. Liner materials shall have air-stream surface coated with an erosion- and temperature-resistant coating or faced with a plain or coated fibrous mat or fabric.
 - 4. Liner Adhesive: Comply with ASTM C916, Type I.
- F. Plastic Condensate Drain Pans: Fabricated using rigid heavy plastic polymer complying with ASTM G21, a minimum of 2 inches deep, and complying with ASHRAE 62.1 for design and construction of drain pans.
- G. Condensate Drain Pans: Fabricated using G-90-coated galvanized 0.028 inch thick steel sheet, complying with ASHRAE 62.1 for design and construction of drain pans.
 - ~~1. ***Double-Wall Construction: Fill space between walls with foam insulation and seal moisture tight.***~~
 - 2. Drain Connections: Threaded nipple.

- H. Airstream Surfaces: Surfaces in contact with the airstream shall comply with requirements in ASHRAE 62.1.

2.4 FANS

- A. Supply and relief Air Fans: Aluminum or painted-steel wheels, and galvanized- or painted-steel fan scrolls.

- 1. ***Direct-Driven Plenum Fans: Motor shall be resiliently mounted in the fan inlet.***

- B. Condenser-Coil Fan: Variable-speed propeller, mounted on shaft of permanently lubricated motors.

2.5 MOTORS

- A. Motor Sizes: Minimum size as indicated. If not indicated, large enough so driven load will not require motor to operate in service factor range above 1.0.

- B. Service Factor: 1.15.

- C. Efficiency: Premium efficient.

2.6 COILS

- A. Supply-Air Refrigerant Coil:

- 1. Aluminum-plate fin and seamless internally grooved copper tube in steel casing with equalizing-type vertical distributor.
 - 2. Polymer strip shall prevent all copper coil from contacting steel coil frame or condensate pan.
 - 3. Coil Split: Interlaced.

- B. Outdoor-Air Refrigerant Coil:

- 1. Aluminum-plate fin and seamless internally grooved copper tube in steel casing with equalizing-type vertical distributor.
 - 2. Polymer strip shall prevent all copper coil from contacting steel coil frame or condensate pan.

2.7 REFRIGERANT CIRCUIT COMPONENTS

- A. Number of Refrigerant Circuits: minimum two.

- B. Compressor: scroll, mounted on vibration isolators; with internal overcurrent and high-temperature protection, internal pressure relief and crankcase heater.

C. Refrigeration Specialties:

1. Refrigerant: R-410A.
2. Expansion valve with replaceable thermostatic element.
3. Refrigerant filter/dryer.
4. Manual-reset high-pressure safety switch.
5. Automatic-reset low-pressure safety switch.
6. Minimum off-time relay.
7. Automatic-reset compressor motor thermal overload.
8. Brass service valves installed in compressor suction and liquid lines.

2.8 AIR FILTRATION

A. Minimum arrestance and a minimum efficiency reporting value according to ASHRAE 52.2.

B. Pleated Panel Filters:

1. Description: Factory-fabricated, self-supported, extended-surface, 2" thick pleated, panel-type, disposable air filters with holding frames.
2. Filter Unit Class: UL 900, Class 1.
3. Media: Interlaced glass or synthetic fibers coated with nonflammable adhesive.

2.9 GAS FURNACES

A. Description: Factory assembled, piped, and wired; complying with ANSI Z21.47/CSA 2.3 and NFPA 54.

1. CSA Approval: Designed and certified by and bearing label of CSA.

B. Burners: Stainless steel.

1. Fuel: Natural gas.
2. Ignition: Electronically controlled electric spark or hot-surface igniter with flame sensor.

C. Heat-Exchanger and Drain Pan: Stainless steel.

D. Power Vent: Integral, motorized centrifugal fan interlocked with gas valve with vertical extension.

E. Safety Controls:

1. Gas Control Valve: Modulating.
2. Gas Train: Single-body, regulated, redundant, 24-V ac gas valve assembly containing pilot solenoid valve, pilot filter, pressure regulator, pilot shutoff, and manual shutoff.

2.10 DAMPERS

- A. Outdoor-Air Damper: Linked damper blades, for 0 to 100 percent outdoor air, with motorized damper filter.
- B. Outdoor- and Return-Air Mixing Dampers: Opposed blade galvanized-steel dampers mechanically fastened to cadmium plated for galvanized-steel operating rod in reinforced cabinet.
 - 1. Leakage Rate: As required by ASHRAE/IES 90.1.
 - 2. Damper Motor: Modulating with adjustable minimum position.
 - 3. Relief-Air Damper: Gravity actuated or motorized, as required by ASHRAE/IES 90.1, with bird screen and hood.

2.12 OUTDOOR AIR SECTION

- A. Provide 100% modulating enthalpy-based economizer system fully integrated with unit return and exhaust air dampers. Unit operation is through primary temperature controls that automatically modulate dampers to maintain desired space temperature conditions.
 - 1. Provide automatic outdoor enthalpy lockout sensor.
- B. Provide adjustable minimum position control through the BAS and also through the microprocessor board on the unit in case there is a loss of Comm.
- C. Provide spring-return motor for outside air damper closure during unit shutdown or power interruption.
- D. Provide outside airflow measuring integral to the unit. This measuring station shall include a ventilation control module.
 - 1. Demand control ventilation along with CO2 sensors shall be included to minimize fresh air intake during periods of low occupancy based on parts per million space CO2 in response to a customer defined parts per million CO2 set point.

2.10 EXHAUST/RETURN SECTION

- A. 100% Power Exhaust:
 - 1. Provide direct space sensing building pressurization control. The control system shall modulate the Exhaust fan VFD to control the building pressure to within the adjustable, specified deadband that shall be adjustable at the Human Interface Panel

2.11 ELECTRICAL POWER CONNECTIONS

- A. RTU shall have a single connection of power to unit with unit-mounted disconnect switch accessible from outside unit and] control-circuit transformer with built-in overcurrent protection.

2.12 CONTROLS

- A. Electronic DDC Controller:
 - 1. Controller shall have non-volatile-memory backup.
 - 2. Safety Control Operation:
 - a. Smoke Detectors: Stop fan and close outdoor-air damper if smoke is detected. Provide additional contacts for alarm interface to fire alarm control panel.
 - b. Fire Alarm Control Panel Interface: Provide control interface to coordinate with operating sequence described on the drawings.

2.13 ACCESSORIES

- A. Unit mounted Variable Frequency Drives (2 per unit), factory wired, to control the supply fan and the relief fan.
- B. Duplex, 115-V, ground-fault-interrupter outlet with 15-A overcurrent protection. Include transformer if required.
- C. Filter differential pressure switch with sensor tubing on either side of filter. Set for final filter pressure loss.
- D. Remote potentiometer to adjust minimum economizer damper position.
- E. Return-air bypass damper.
- F. Factory- or field-installed demand-controlled ventilation.
- G. Safeties:
 - 1. Smoke detector.
 - 2. Condensate overflow switch.
 - 3. Phase-loss reversal protection.
 - 4. High and low pressure control.
 - 5. Gas furnace airflow-proving switch.
- H. Coil guards of painted, galvanized-steel wire.
- I. Hail guards of galvanized steel, painted to match casing.
- J. Outdoor air intake weather hood with moisture eliminator.

2.14 ROOF CURBS

- A. Materials: Galvanized steel with corrosion-protection coating, watertight gaskets, and factory-installed wood nailer; complying with NRCA standards.
 - 1. Curb Insulation and Adhesive: Comply with NFPA 90A or NFPA 90B.
 - a. Materials: ASTM C1071, Type I or II.
 - b. Thickness: 1-inch thickness.
 - 2. Application: Factory applied with adhesive and mechanical fasteners to the internal surface of curb.
 - a. Liner Adhesive: Comply with ASTM C916, Type I.
 - b. Mechanical Fasteners: Galvanized steel, suitable for adhesive attachment, mechanical attachment, or welding attachment to duct without damaging liner when applied as recommended by manufacturer and without causing leakage in cabinet.
 - c. Liner materials applied in this location shall have air-stream surface coated with a temperature-resistant coating or faced with a plain or coated fibrous mat or fabric depending on service air velocity.
 - d. Liner Adhesive: Comply with ASTM C916, Type I.

3.0 EXECUTION

3.1 INSTALLATION

- A. Roof Curb: Install on roof structure, level and secure, according to NRCA's "NRCA Roofing Manual: Membrane Roof Systems." Install RTUs on curbs and coordinate roof penetrations and flashing with roof construction specified in Section 077200 "Roof Accessories." Secure RTUs to upper curb rail, and secure curb base to roof framing.
- B. Unit Support: Install curb level on concrete pad on the roof. Coordinate wall penetrations and flashing with wall construction. Secure RTUs to roof curb and to the concrete pad with anchor bolts.

3.2 CONNECTIONS

- A. Install condensate drain, minimum connection size, with trap and indirect connection to nearest roof drain or area drain.
- B. Install piping adjacent to RTUs to allow service and maintenance.
- C. Duct installation requirements are specified in other HVAC Sections. Drawings indicate the general arrangement of ducts. The following are specific connection requirements:
 - 1. Install ducts to termination at top of roof curb.

- D. Connect electrical wiring according to Section 260519 "Low-Voltage Electrical Power Conductors and Cables."
- E. Ground equipment according to Section 260526 "Grounding and Bonding for Electrical Systems."

3.3 FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: Engage a factory-authorized service representative to test and inspect components, assemblies, and equipment installations, including connections.
- B. Perform the following tests and inspections with the assistance of a factory-authorized service representative:
 - 1. After installing RTUs and after electrical circuitry has been energized, test units for compliance with requirements.
 - 2. Inspect for and remove shipping bolts, blocks, and tie-down straps.
 - 3. Operational Test: After electrical circuitry has been energized, start units to confirm proper motor rotation and unit operation.
 - 4. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
- C. RTU will be considered defective if it does not pass tests and inspections.
- D. Prepare test and inspection reports.

3.4 DEMONSTRATION

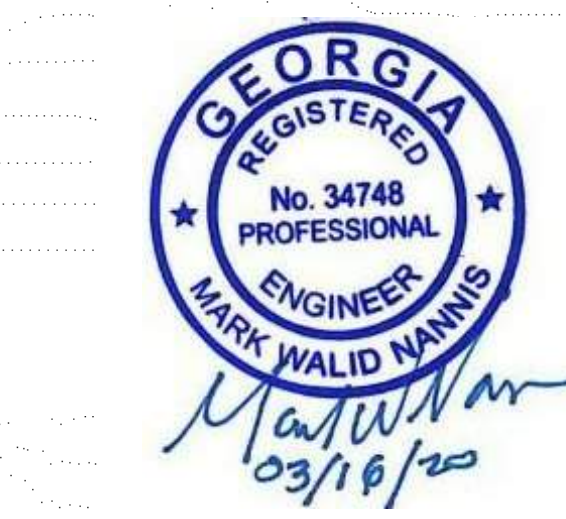
- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain RTUs.

END OF SECTION 237418

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FORSYTH COUNTY JUVENILE COURT BUILDING
FORSYTH COUNTY BOARD OF COMMISSIONERS
 LANIER PARKWAY
 CUMMING, GA 30040

PRINT RECORD

No.	DATE	DESCRIPTION
03.16.2020	03.16.2020	Release for Bid and Permit
05.08.2020	05.08.2020	Release for Bid
07.07.2020	07.07.2020	Addendum #4

Drawn By: N&A
Checked By: MWN

Date: 03/18/2020
Job No.: 20.002

Sheet Title:
ROOF FRAMING PLAN

Sheet No.:
S-1.04

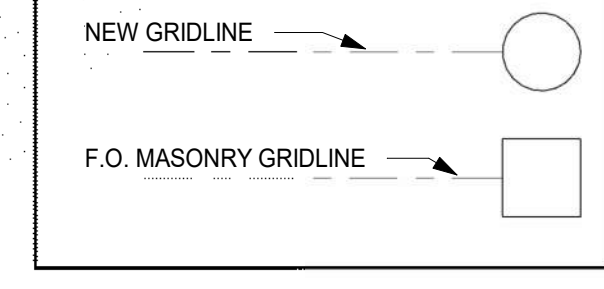
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ROOF FRAMING PLAN NOTES

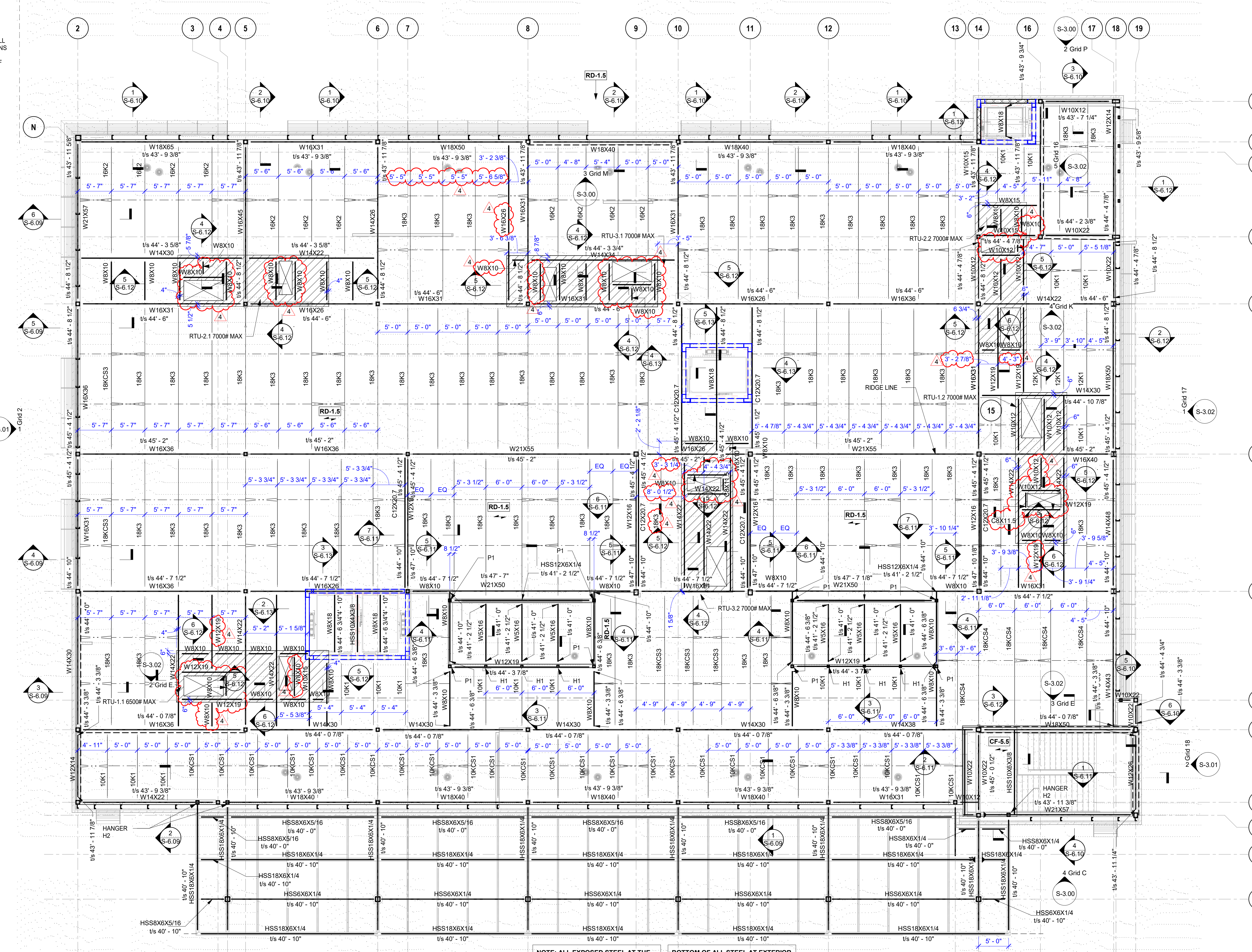
- INDICATES CONTINUOUS HORIZONTAL RIGID BRACING AT TOP AND BOTTOM CHORD OF JOIST. ADD "X" TYPE BRIDGING IN FIRST PANEL AND AT EVERY SIXTH PANEL. WELD TO JOIST, FRAMING, AND AT CROSSOVER POINTS. SEE SPECIFICATIONS.
- INDICATES DIMENSION INSIDE OF BOX SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO DETAILING OR FABRICATION.
- INDICATES THE DIRECTION THE DECK IS SPANNING.
- INDICATES COLLECTOR ELEMENT FORCE IN JOIST OR BEAM.
- INDICATES LOAD ON JOIST FROM HOSE REEL, FOR SUPPORT DETAILS SEE.
- INDICATES A MOMENT CONNECTION AT EACH END OF BEAM TO COLUMN. SEE TYPICAL DETAIL FOR FULL PENETRATION WELD OF FLANGES AT EACH END.
- INDICATES THIS END OF JOIST REQUIRES A 5" JOIST SEAT TO MATCH ADJACENT "LH" JOIST.
- INDICATES TOP OF PARAPET.
- INDICATES A MASONRY SHEAR WALL.
- INDICATES HIGH BEAM.
- INDICATES LOW BEAM.
- INDICATES ANGLE 3"x3"x1/4" HORIZONTAL BRACE EXTENDING FROM TOP CHORD OF JOIST OR BEAM TO FACE OF COLUMN. WELD ALL AROUND EACH END WITH A 3/16" FILLET WELD.
- INDICATES ADDITIONAL "X" TYPE BRIDGING. USE 2 1/2"x2 1/2"x1/4" ANGLE.
- INDICATES A STRUT JOIST, SEE SPECIFICATIONS.
- INDICATES A BEAM SPLICE POINT. SEE TYPICAL SPLICE POINT DETAIL. 4 / S-6.82
- INDICATES DIAGONAL BRACE(S). SEE BRACE ELEVATION(S) FOR SIZE(S).
- INDICATES SPECIAL JOIST TO BE DESIGNED BY JOIST MANUFACTURER TO SUPPORT LOADS AS SHOWN.
- INDICATES TOP OF STEEL BEAM REVEALED FROM ELEVATION [0'-7"]
- INDICATES A MASONRY CONTROL JOINT. COORDINATE EXACT LOCATION WITH ARCHITECT. JOINT SHALL EXTEND TO TOP OF PARAPET AND SHALL NOT BE LOCATED WITHIN 1'-0" OF A JOIST BEARING SEAT ABOVE, 2'-0" OF A BEAM BEARING, OR WITHIN 2'-0" OF JAMB OF ANY OPENING.

- NOTE: WHERE TUBE FRAME MEMBERS CONNECT TO COLUMNS, PROVIDE A WELDED CONNECTION ALL AROUND FROM TUBE TO COLUMN, TYP.
- NOTE: STEEL REINF. TO BE WELDED SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-786 AND THAT WELDING SHALL BE IN ACCORDANCE WITH AWS D14. STRUCTURAL WELDING CODE - REINFORCING STEEL BY AMERICAN WELDING SOCIETY FOR COMPLIANCE WITH ACI 318.
- NOTE: FOR FRAMING AROUND ROOF HATCH, PROVIDE CHANNEL FRAMING AS SHOWN ON THE TYPICAL DETAIL FOR FRAMING AROUND MECHANICAL UNITS. (UNLESS NOTED OTHERWISE)
- NOTE: KEEP STRUCTURE GUYED AND BRACED UNTIL ALL MASONRY/CONCRETE SHEAR WALLS, DIAGONAL BRACES, MOMENT FRAMES, FRAMED FLOORS AND ROOF DECKS ARE IN PLACE.
- NOTE: SEE ARCHITECT AND PLUMBING DRAWINGS FOR LOCATIONS OF ROOF DRAINS. ROOF IS DESIGNED FOR A MAXIMUM DEPTH OF 4" OF WATER AT ANY LOCATION OF THE ROOF. WATER SHALL BE RELIEVED BY EITHER SCUPPERS OR AN INDEPENDENT EMERGENCY OVERFLOW DRAIN AT THE 4" LEVEL.
- NOTE: FOR FRAMING AROUND THE PERIMETER OF A MECHANICAL UNIT, SEE TYPICAL DETAIL. 3 / S-6.81
- NOTE: CONTRACTOR COORDINATE LOCATION OF OPENINGS AND WEIGHTS OF MECHANICAL UNITS, WITH THE MECHANICAL DRAWINGS. IF WEIGHTS EXCEED WHAT IS SHOWN ON THE STRUCTURAL PLAN, THEN NOTIFY THE STRUCTURAL ENGINEER OF THE CHANGE PRIOR TO ANY DETAILING OR FABRICATION OF JOIST, DECK OR STEEL.
- H1: INDICATES A HSS 4" x 4" x 1/4" HANGER.
- H2: INDICATES A HSS 6" x 6" x 1/4" HANGER.
- P1: INDICATES A HSS 5" x 5" x 1/4" POST
- NOTE: ALL EXPOSED STRUCTURAL STEEL IS TO BE DESIGNATED AESS.
- NOTE: GENERAL CONTRACTOR SHALL COORDINATE ALL DIMENSIONS, WEIGHTS AND OPENING LOCATIONS WITH EQUIPMENT PURCHASER FOR ROOF TOP UNITS PRIOR TO DETAILING OR FABRICATION OF STEEL.

Gridline Type Legend



2 High Roof Framing Plan
S-1.04 1/8" = 1'-0"



1 Roof Framing Plan
S-1.04 1/8" = 1'-0"

NOTE: ALL EXPOSED STEEL AT THE ENTRANCE CANOPY IS TO BE AESS. BOTTOM OF ALL STEEL AT EXTERIOR ROOF CANOPY SHALL BE AT +39'-4"

All drawings, specifications, and other work product of Nannis & Associates for this project are instruments of service for this project only and shall remain the property of Nannis & Associates whether the project is complete or not. Reuse of any of the instruments of service of Nannis & Associates by the owner or extensions of this project without the written permission of Nannis & Associates shall be at the owner's risk and the owner agrees to defend, indemnify, and hold harmless Nannis & Associates from all claims, damages, and expenses, including attorney's fees arising out of such unauthorized reuse of Nannis & Associates' instruments of service by the owner or others acting through the owner. ©2019

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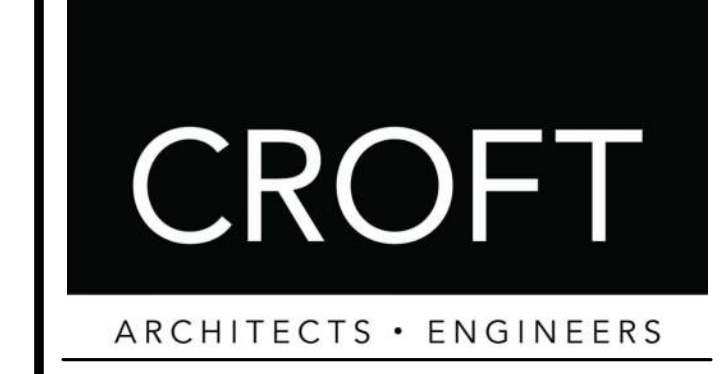
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RCP GENERAL NOTES		RCP LEGEND	
1.	CONSTRUCTION PROFESSIONAL SHALL FIELD VERIFY ALL FIXTURE LOCATIONS. ANY CONFLICT WITH FIELD CONDITIONS, DRAWINGS AND/OR OTHER TRADES SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY UPON DISCOVERY FOR CLARIFICATION PRIOR TO PROCEEDING WITH ASSOCIATED WORK.	○	DOWN LIGHT
2.	PROVIDE AND INSTALL CEILING TILE, MAIN TEES, CROSS TEES, WALL MOLDINGS AND OTHER ACCESSORIES NECESSARY TO COMPLETE THE SCOPE OF WORK.	⬇	PENDANT
3.	ALL ADJACENT LIGHT SWITCHES SHALL BE GANGED WITH A SINGLE FACE PLATE.	⊞	2X2 LAY-IN LIGHT
4.	UNLESS APPROVED BY THE ARCHITECT, ALL THERMOSTATS SHALL BE LOCATED DIRECTLY ADJACENT TO THE LIGHT SWITCH IN THE ROOM IN WHICH IT OCCURS.	⊞	2X4 LAY-IN LIGHT
5.	CENTER ALL SPRINKLER HEADS IN CEILING TILES WHERE POSSIBLE. ALL SPRINKLER HEADS IN GYPSUM BOARD TO BE RECESSED & CONCEALED.	⊞	2X4 FLAT PANEL
6.	CENTER ALL LIGHT FIXTURES IN SPACE, U.N.O. ALL RECESSED LIGHT FIXTURES SHALL BE CENTERED IN CEILING TILES WHERE POSSIBLE, U.N.O.	—○—	LINEAR SUSPENDED LIGHT
7.	CONSTRUCTION PROFESSIONAL WILL ENSURE THAT LENSES IN LIGHTING FIXTURES ARE CLEAN AND FREE OF DUST, DIRT AND SMUDGES. PLASTIC AND LABELS SHALL BE REMOVED FROM ALL LIGHT FIXTURES AT PROJECT COMPLETION.	—○—	UTILITY SUSPENDED LIGHT
8.	NO SUBSTITUTES WILL BE ACCEPTED FOR ANY LIGHT FIXTURES UNLESS APPROVED BY ARCHITECT IN WRITING.	—○—	RECESSED LAY-IN LINEAR
9.	ALL EXPOSED CEILINGS PAINTED WITH DRYFALL, U.N.O.	—○—	PERIMETER WALL WASHER
		□	EXTERIOR WALL PACK
		—○—	LINEAR WALL MOUNT(STAIRS)
		⊞	EXIT SIGNAGE (SHADING INDICATES FACE OF SIGN; ARROW SHOWN INDICATES DIRECTION)
		ACT-1:	ACOUSTICAL CEILING TILE
		ACT-2:	ACOUSTICAL CEILING TILE
		ACT-3:	ACOUSTICAL CEILING TILE WITH AXIOM TRIM
		ACC-1:	ACOUSTICAL CEILING CLOUD
		GB-1:	GYPSUM BOARD CEILING
		GB-2:	MOISTURE RESISTANT GYP.BD.
		LWD-1:	LINEAR WOOD CEILING
		WD-1:	WOOD PANEL CEILING -
		TVP-1:	TRANSLUCENT VERTICAL PANELS ARMSTRONG INFUSION BLADES B.O.D
		CC:	CONCRETE CAP
		⊞	ACCESS PANEL
		—	LINEAR DIFFUSER
		⊞	RETURN
		⊞	SUPPLY
		X-X	CEILING TAG
		⊞	GYPSUM BOARD CEILING
		⊞	LAY-IN CEILING GRID



1 LEVEL 300 - REFLECTED CEILING PLAN
 SCALE: 1/8" = 1'-0"
 PROJECT NORTH TRUE NORTH

RCP SHOWN ON THIS DOCUMENT IS FOR GRAPHIC ILLUSTRATION ONLY AND SHALL NOT BE USED AS AN ACCURATE REPRESENTATION OF MECHANICAL, ELECTRICAL AND PLUMBING SCOPE OF WORK. REFERENCE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR SCOPE OF WORK.



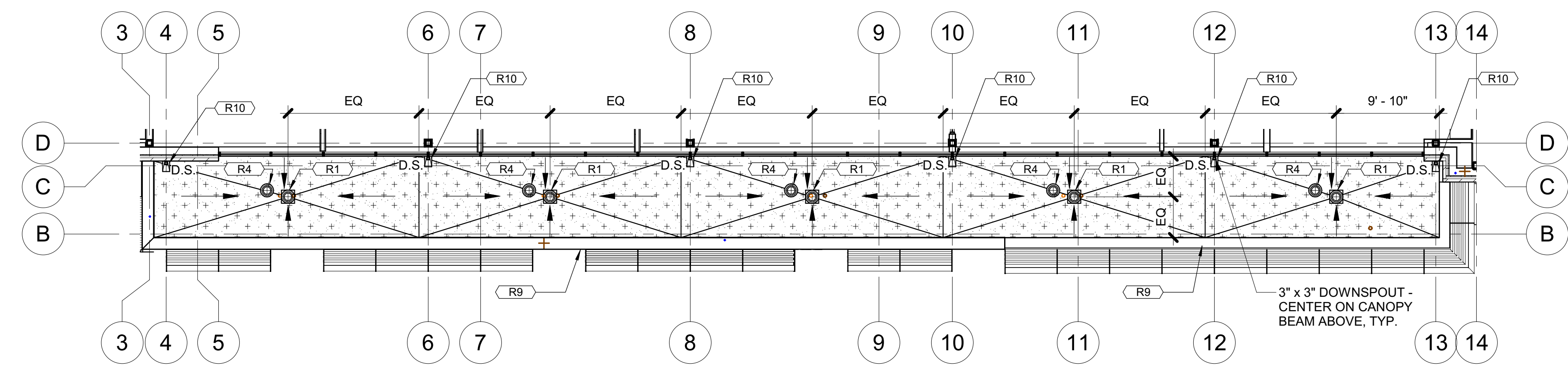
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07/07/2020	07/07/2020	Addendum 4

Drawn By: MG
 Checked By: DS
 Date: 03/18/2020
 Job No.: 19059
 Sheet Title: LEVEL 300 - REFLECTED CEILING PLAN
 Sheet No.: **A-2.03**
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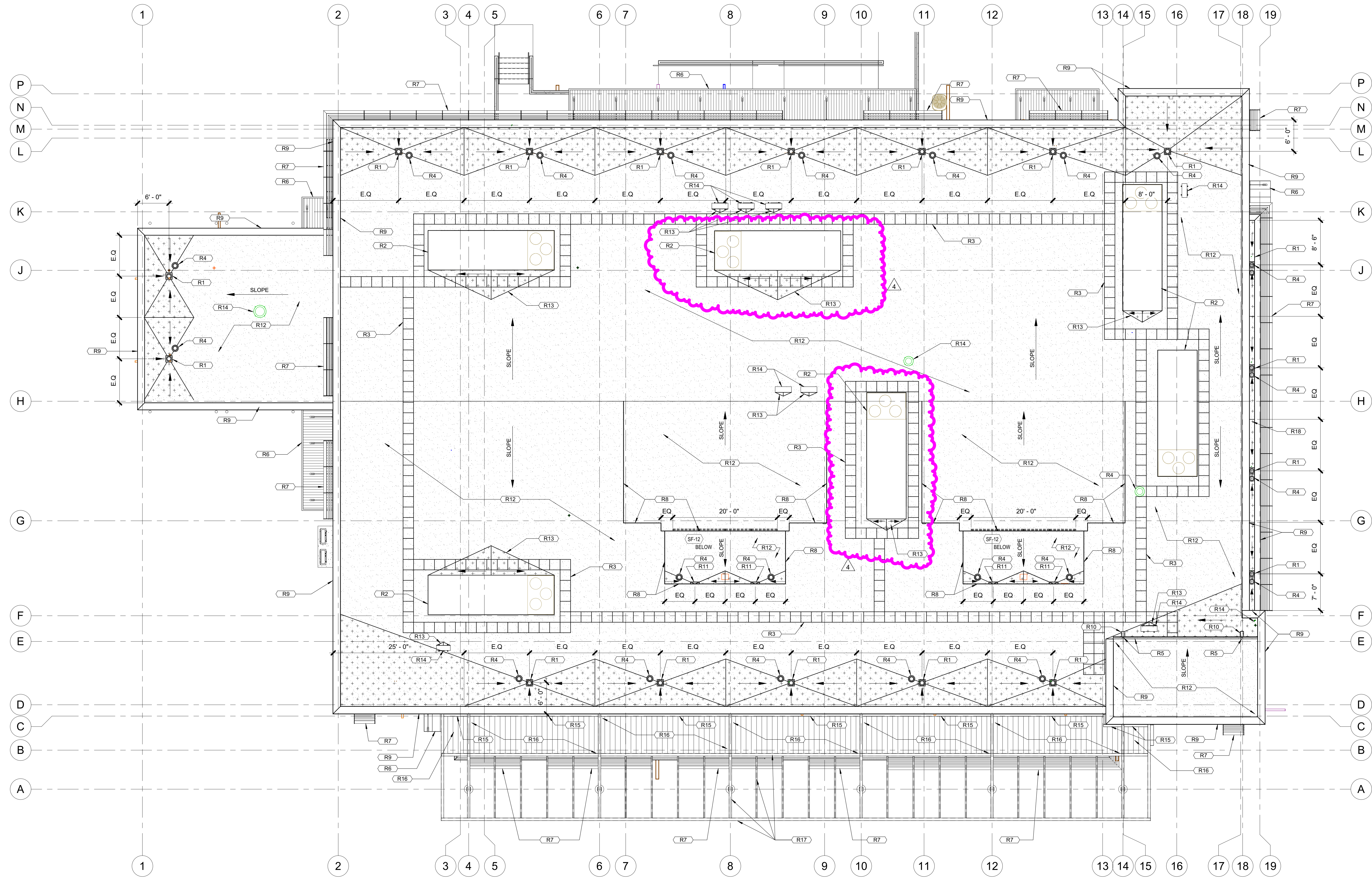
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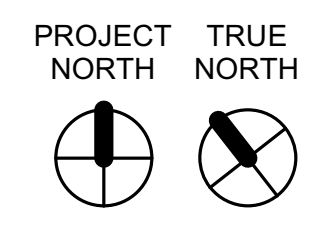
2 LEVEL 300 - ROOF PLAN
SCALE: 1/8" = 1'-0"

KEY NOTE #	DESCRIPTION
R1	ROOF DRAIN TYPICAL AS INDICATED - COORDINATE EXACT LOCATION W/ ARCHITECTURAL, MECHANICAL, PLUMBING, STRUCTURAL, ELECTRICAL & SECURITY DRAWINGS. REFERENCE DETAIL 2/A-3.02
R2	MECHANICAL ROOF TOP UNIT - SEE MECHANICAL DRAWINGS FOR MORE INFORMATION
R3	2' X 2' CONTINUOUS WALK PADS. REFERENCE DETAIL 9/A-3.51
R4	OVERFLOW DRAIN, TYPICAL AS INDICATED - INSTALL NOT MORE THAN 2" HIGHER THAN ADJACENT ROOF DRAIN. COORDINATE EXACT LOCATION W/ ARCHITECTURAL, MECHANICAL, STRUCTURAL, PLUMBING, ELECTRICAL & SECURITY DRAWINGS. REFERENCE DETAIL 3/A-3.02
R5	PRE-FINISHED ALUMINUM GUTTER & DOWNSPOUT. TERMINATE AT MAIN ROOF ONTO SPLASH BLOCK. PROVIDE TWO (2) DOWNSPOUTS AT OPPOSITE ENDS OF GUTTER
R6	PRE-FINISHED, PRE-MANUFACTURED ALUMINUM CANOPIES
R7	PRE-FINISHED, PRE-MANUFACTURED ALUMINUM SUNSHADE
R8	PRE-FINISHED ALUMINUM GRAVEL STOP
R9	PRE-FINISHED ALUMINUM COPING SYSTEM. SEE DETAIL 5/A-3.51 FOR CORNER DETAIL
R10	SPLASH BLOCKS AT END OF DOWNSPOUT
R11	SIDEWALL ROOF DRAIN, TYPICAL AS INDICATED. COORDINATE EXACT LOCATION W/ ARCHITECTURAL, MECHANICAL, PLUMBING, STRUCTURAL, ELECTRICAL & SECURITY DRAWINGS. SEE DETAIL X/A-3.51
R12	TPO ROOF SYSTEM OVER RIGID INSULATION - WHITE COLOR. SEE SPECS.
R13	CRICKET - TAPER INSULATION 1/4" PER FOOT FOR POSITIVE DRAINAGE
R14	MECHANICAL UNIT / FIXTURE. SEE MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS FOR MORE INFORMATION. REFERENCE ROOF DETAIL SHEET A-3.51
R15	CONCEALED ALUM. GUTTER & DOWNSPOUT
R16	PRE-FINISHED STANDING SEAM ROOF SYSTEM INFILL
R17	ARCHITECTURAL STL. CANOPY STRUCTURE. COORDINATE W/ ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL & SECURITY DRAWINGS
R18	TPO ROOF SYSTEM OVER RIGID INSULATION - GRAY COLOR. SEE SPECS.

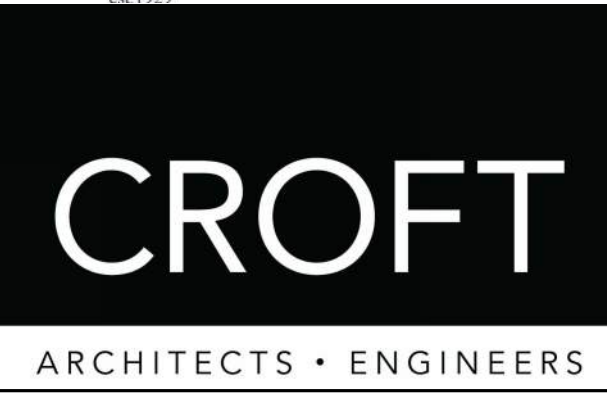
ROOF GENERAL NOTES	
1.	SEE MECHANICAL/PLUMBING DRAWINGS FOR ADDITIONAL NOTES AND DETAILS.
2.	ALL EQUIPMENT ON ROOF TO BE MOUNTED ON CURBS, PROVIDE CRICKET TO DIVERT WATER AROUND EQUIPMENT.
3.	ALL ROOF FLASHINGS TO BE FIRE RETARDANT AND PRESSURE TREATED.
4.	ROOFTOP MECHANICAL UNIT CONFIGURATION IS BASED ON TRANE. THE BASIS OF DESIGN. IF ANOTHER MANUFACTURER IS USED, THE ROOFTOP FOOTPRINT AS WELL AS THE DUCTWORK CONFIGURATION MAY BE DIFFERENT. CONTRACTOR SHALL COORDINATE WITH ACTUAL EQUIPMENT PURCHASED.
ROOF LEGEND	
	ROOF DRAIN - COORDINATE EXACT LOCATION W/ ARCHITECTURAL, MECHANICAL, STRUCTURAL, PLUMBING & ELECTRICAL DRAWINGS. SEE 2/A-3.02
	OVERFLOW DRAIN - INSTALL OVERFLOW DRAINS NOT MORE THAN 2" HIGHER THAN ADJACENT ROOF DRAIN. COORDINATE EXACT LOCATION W/ ARCHITECTURAL, MECHANICAL, STRUCTURAL, PLUMBING & ELECTRICAL DRAWINGS. SEE 3/A-3.02
	GUTTER
	INDICATES DIRECTION OF TAPERED INSULATION CRICKET W/ MIN. SLOPE OF 1/4" PER FOOT. SLOPE INSULATION TOWARDS ROOF DRAINS, TYP. (AS SHOWN BY DIRECTION OF ARROWS)
	ROOF SLOPE
	TPO ROOF SYSTEM
	AREA OF TAPERED INSULATION - SEE ROOF PLAN FOR ROOFING SYSTEM.



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



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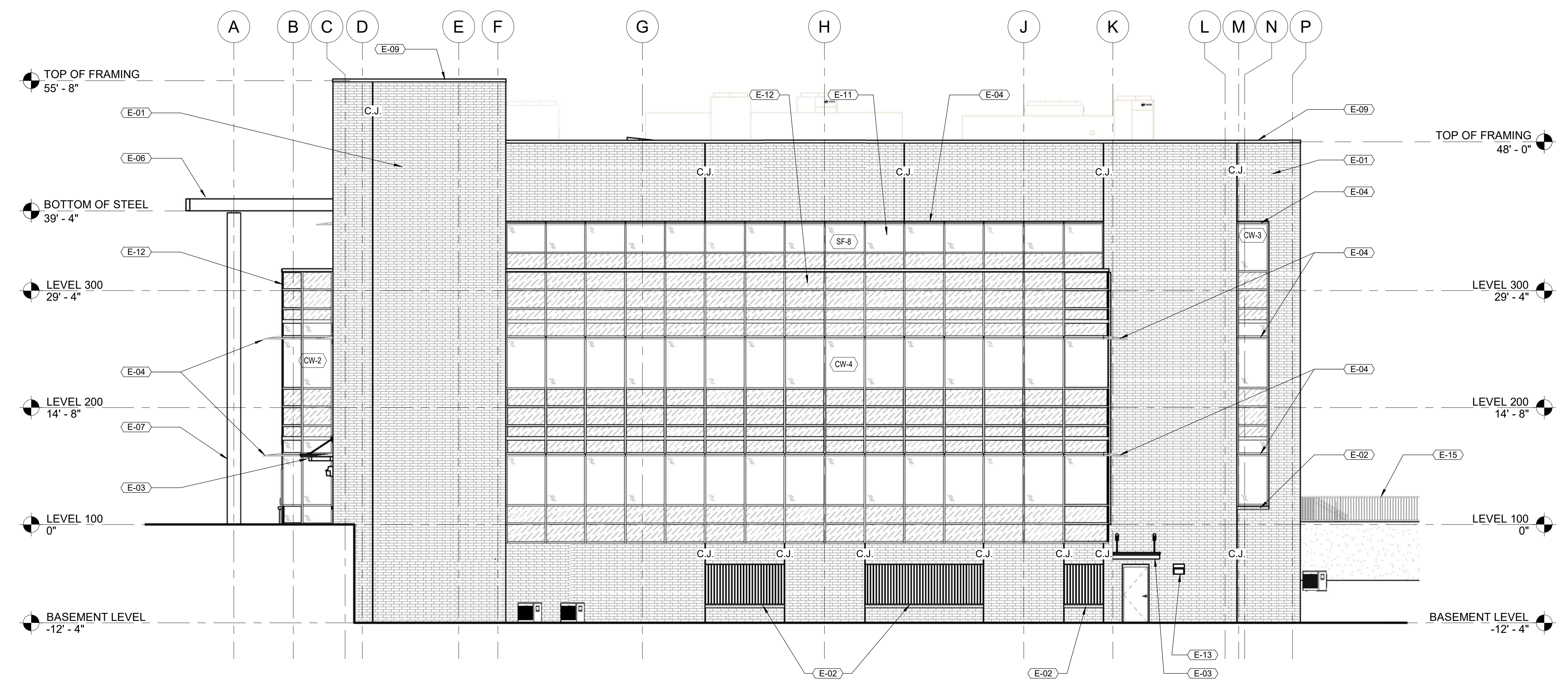
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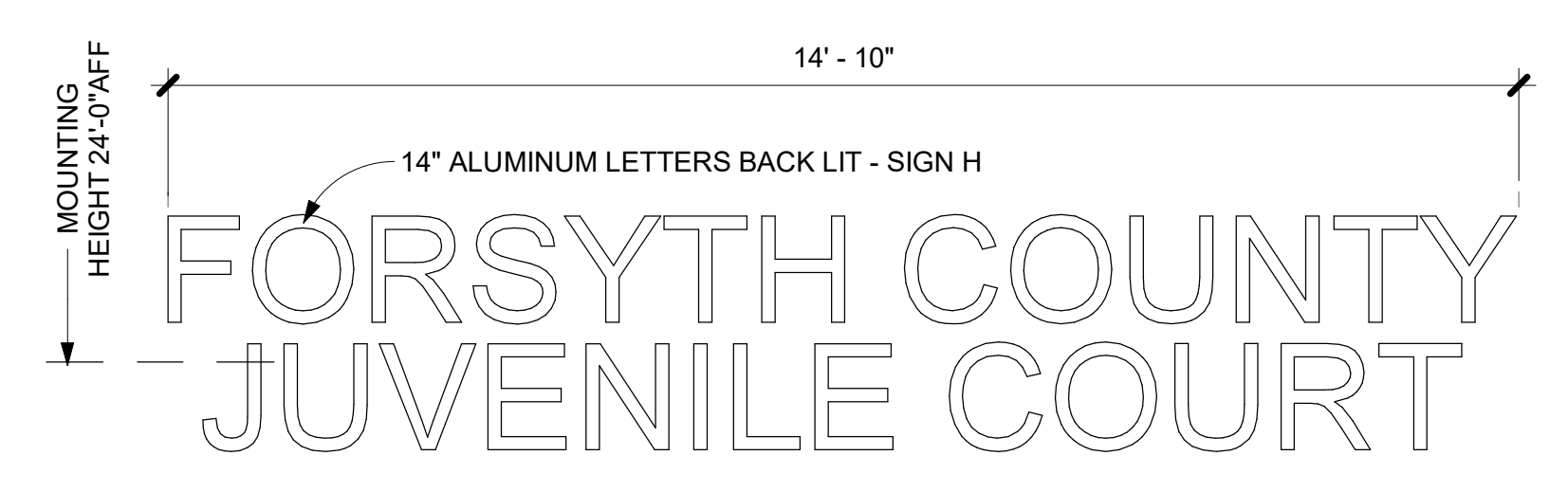
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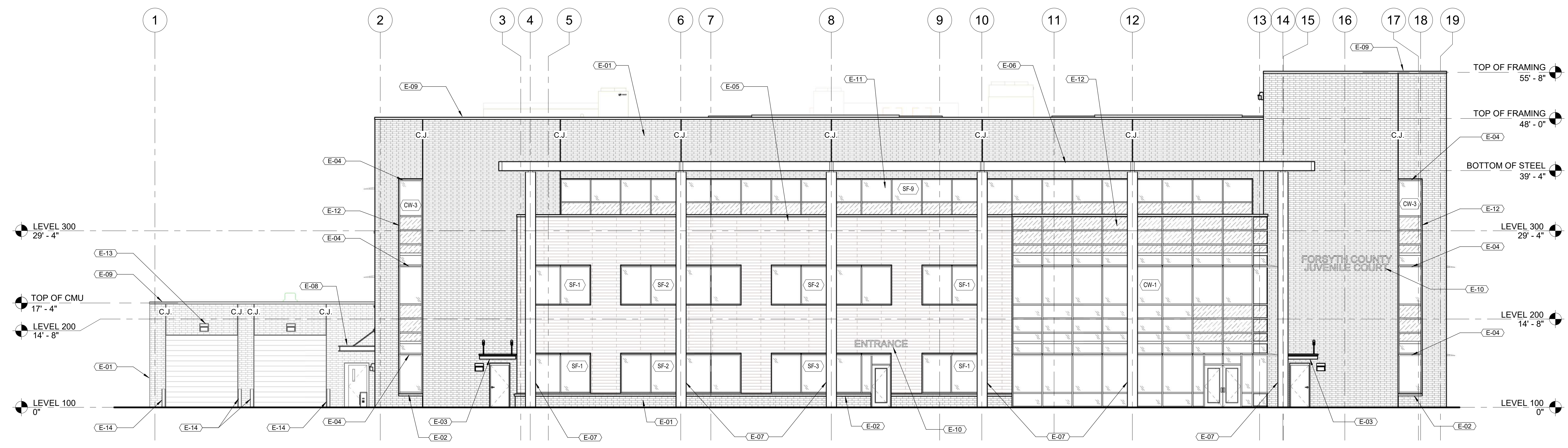
KEY NOTES - ELEVATIONS	
KEY NOTE #	DESCRIPTION
E-01	BRICK VENEER
E-02	BRICK VENEER ROWLOCK
E-03	PRE-FABRICATED ALUMINUM CANOPY SYSTEM - FACTORY FINISHED - TYPE 2
E-04	PRE-FABRICATED SUNSHADE
E-05	WOOD SIDING OVER 2" Z-GIRTS
E-06	STEEL CANOPY STRUCTURE
E-07	GFRG COLUMN COVER
E-08	PRE-FABRICATED ALUMINUM CANOPY SYSTEM - FACTORY FINISHED - TYPE 1
E-09	FACTORY FINISHED PRE-FABRICATED COPING SYSTEM
E-10	PIN MOUNTED, BACKLIT BUILDING SIGNAGE. PROVIDE CONDUIT WITH PULLS TO NEAREST BUILDING ELECTRICAL ROOM.
E-11	STOREFRONT SYSTEM
E-12	CURTAIN WALL SYSTEM
E-13	WALL PACK LIGHT, TYP. SEE ELECTRICAL DWGS.
E-14	BOLLARD
E-15	RAILING SYSTEM
E-16	LOUVER. SEE MECHANICAL DWGS.



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



3 SIGN H - EXTERIOR
SCALE: 1/2" = 1'-0"



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



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ADD ALTERNATE 01: ADD SUNSHADES ON NORTH AND WEST EXTERIOR ELEVATIONS

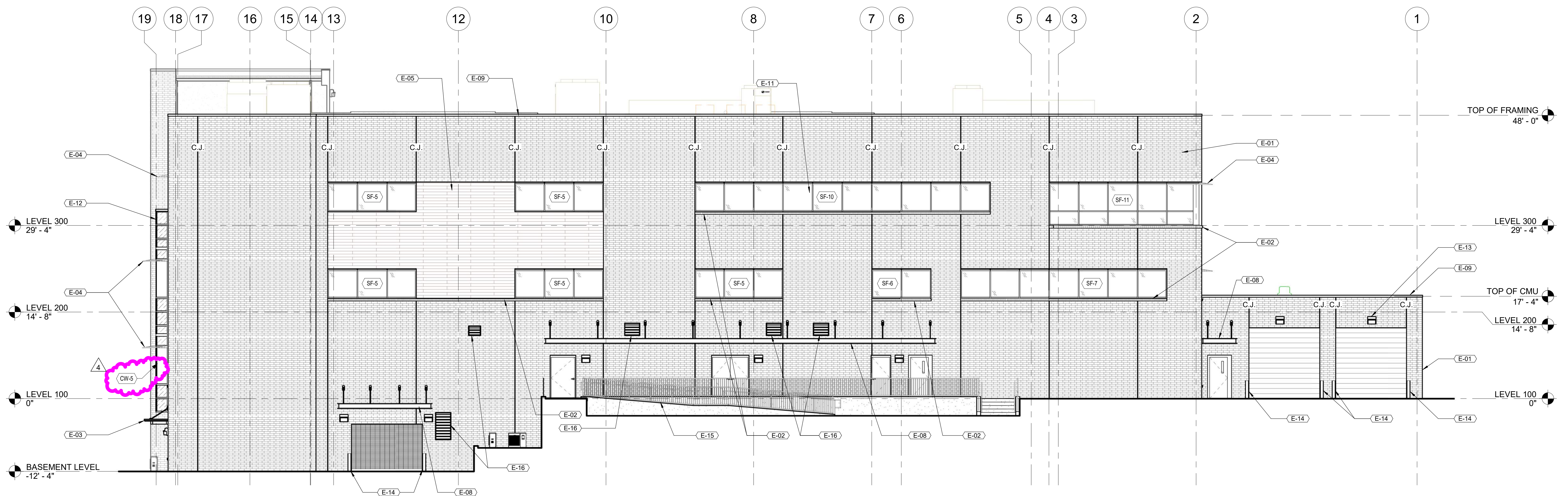
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E-11	STOREFRONT SYSTEM
E-12	CURTAIN WALL SYSTEM
E-13	WALL PACK LIGHT, TYP. SEE ELECTRICAL DWGS.
E-14	BOLLARD
E-15	RAILING SYSTEM
E-16	LOUVER. SEE MECHANICAL DWGS.



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2 WEST EXTERIOR ELEVATION
SCALE: 1/8" = 1'-0"



1 NORTH EXTERIOR ELEVATION
SCALE: 1/8" = 1'-0"

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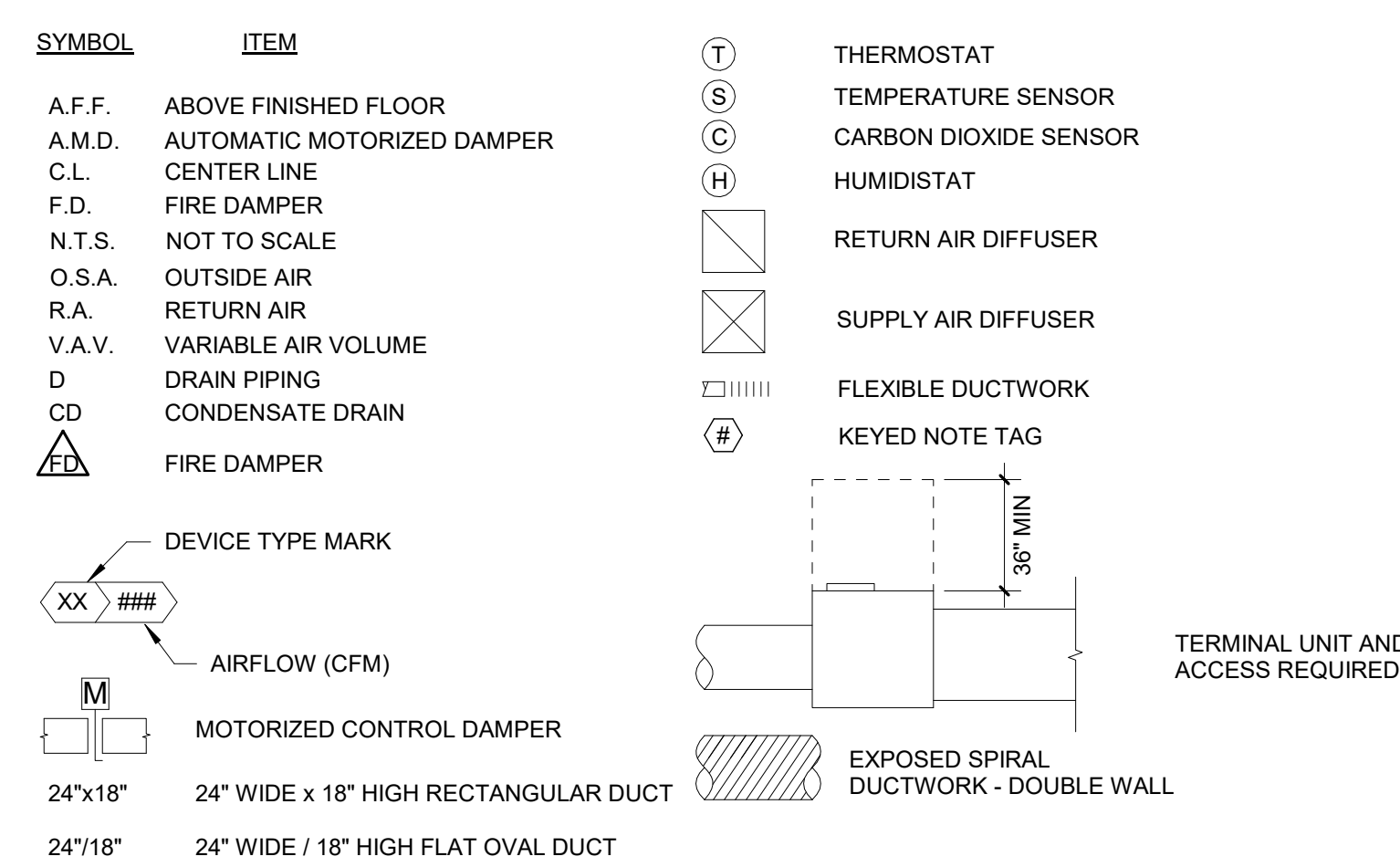
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ADD ALTERNATE 03:
REFER TO SECTION 230923 DIRECT DIGITAL CONTROL FOR HVAC SYSTEMS, PART 1.1 FOR DESCRIPTION OF ADD ALTERNATE 03.

GENERAL NOTES:
1. THESE DRAWINGS ARE SCHEMATIC AND ARE NOT REPRESENTATIVE OF ALL POTENTIAL CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ALL OTHER DISCIPLINES TO ENSURE PROPER INSTALLATION OF ALL SYSTEMS AND EQUIPMENT.
2. COORDINATE WITH ARCHITECTURAL CEILING PLAN FOR LOCATION OF ALL CEILING-MOUNTED EQUIPMENT AND AIR DISTRIBUTION DEVICES.
3. COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO PURCHASE.
4. CONTRACTOR SHALL MAINTAIN MINIMUM 10'-10" DISTANCE BETWEEN ALL EXHAUST VENT OUTLETS AND OUTSIDE AIR INTAKES. COORDINATE WITH PLUMBING AND ROOFING CONTRACTORS PRIOR TO INSTALLATION. REFER TO MANUFACTURER'S INSTALLATION CLEARANCE REQUIREMENTS FOR ALL HVAC EQUIPMENT. CONTRACTOR SHALL COORDINATE REQUIRED CLEARANCES WITH ALL TRADES PRIOR TO BEGINNING WORK.
5. REFER TO SPECIFICATIONS SECTION 233113 METAL DUCTS, PART 1.3.B.3 FOR DUCTWORK SHOP DRAWING REQUIREMENTS.
6. UNLESS OTHERWISE NOTED, INSTALL DUCT LINER 10'-0" MINIMUM DOWNSTREAM FROM THE DISCHARGE OF ALL POWERED INDUCED-DRAUGHT UNITS (PIU). REFER TO SPECIFICATIONS SECTION 233113 METAL DUCTS, PART 2 FOR DUCT LINER REQUIREMENTS.
7. REFER TO DETAIL 1/1M-02 FOR LOCATION OF ALL BALANCING DAMPERS ON LOW PRESSURE DUCTWORK. NO VOLUME DAMPERS ALLOWED IN MEDIUM PRESSURE DUCTWORK.
8. INSTALL DUCTWORK AND REFRIGERANT PIPING IN A NEAT AND WORKMAN-LIKE MANNER IN ROOMS WITH NO CEILING OR CLOUD CEILINGS. PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE AND DUCTWORK EVENLY SPACED OUT OVER CLOUDS.

HVAC LEGEND-SYMBOL



ROOFTOP UNIT SCHEDULE

Table with columns: MARK, MFRG, MODEL, WEIGHT (LBS), V/O, TYPE, FILTER AREA (SQ. FT.), AIRFLOW (CFM), OUTSIDE AIR (CFM), ESP (IN.H2O), MOTOR SIZE (HP), EDB (°F), EWB (°F), LDB (°F), LWB (°F), TOTAL CAPACITY (MBH), SENSIBLE CAPACITY (MBH), TYPE, LAT (°F), CAPACITY (MBH), STAGES, NOTES.

- NOTES:
1) PROVIDE SMOKE DETECTOR IN SUPPLY DUCT.
2) PROVIDE SMOKE DETECTOR IN RETURN DUCT.
3) PROVIDE DISCONNECT SWITCH.
4) UNIT MOUNTED VARIABLE FREQUENCY DRIVE.
5) 2" PLEATED FILTERS.
6) ENTHALPY-TYPE ECONOMIZER AND POWERED EXHAUST.
7) OUTDOOR AIR FLOW MEASURING STATION.
8) DDC CONTROLS.
9) SINGLE POINT POWER CONNECTION.
10) 14" ROOF CURB WITH SPRING ISOLATORS, TO BE INSTALLED ON ROOF CONCRETE PAD.
11) DIRECT DRIVE PLENUM FANS.
12) FUTURE ROOFTOP UNITS TO SERVE THE SECOND FLOOR.

VAV SCHEDULE (COOLING ONLY)

Table with columns: MARK, BASIS OF DESIGN, MFRG, MODEL, SIZE, INLET STATIC (IN.WG.), MAXIMUM AIRFLOW (CFM), MINIMUM AIRFLOW (CFM), NOTES.

- NOTES:
1) PROVIDE FACTORY MOUNTED DDC CONTROLS.
2) COOLING ONLY.
3) PROVIDE 24V CONTROL TRANSFORMER.

PIU SCHEDULE

Table with columns: MARK, BASIS OF DESIGN, MFRG, MODEL, SIZE, INLET STATIC (IN.WG.), COOLING AIRFLOW MAX. (CFM), COOLING AIRFLOW MIN. (CFM), FAN AIRFLOW (CFM), FAN E.S.P. (KW), HEATING TYPE, STAGES, EAT (°F), LAT (°F), MOTOR TYPE, MOTOR HP, NOTES.

- NOTES:
1) PROVIDE FACTORY MOUNTED DDC CONTROLS.
2) PARALLEL ARRANGEMENT.
3) SERIES ARRANGEMENT.
4) PROVIDE CONTROL TRANSFORMER WITH UNIT.
5) AIRFLOW SWITCH.

DIFFUSER AND AIR TERMINAL SCHEDULE

Table with columns: MARK, FACE SIZE (IN.), NECK SIZE (IN.), MFRG, MODEL, DESCRIPTION, MAX AIRFLOW (CFM), N.C. RATING AT MAX FLOW, NOTES.

- GENERAL NOTES:
A) Diffusers shall have factory finish. Coordinate finish with architect. Coordinate air terminal and diffuser locations with architectural ceiling plans and electrical lighting plan.
B) All diffusers shall include a control damper to balance airflow at each diffuser, regardless of presence on drawings. Unless otherwise indicated, locate balance damper at branch takeoff.
EQUIPMENT NOTES:
1) Include factory-installed molded diffuser-top insulation blanket (minimum R-6 insulation value).
2) Unless noted otherwise, furnish with lined ductboard sound boot stubbed into plenum. See mechanical details.
3) Coordinate mounting bracket type with assembly in which diffuser is to be installed. See architectural drawings for details. Provide concealed-mount brackets in all hard or continuous assemblies unless otherwise noted.
4) Include min. 18" factory-provided insulated supply plenum with round connection as indicated.
5) Include factory-provided light shield.

EXHAUST FAN SCHEDULE

Table with columns: MARK, BASIS OF DESIGN, MODEL, TYPE, DRIVE, SERVICE, AIRFLOW (CFM), MIN. E.S.P. (IN.WG.), MOTOR (HP), SONES, NOTES.

- GENERAL NOTES:
ALL FANS SHALL BE UL-LISTED, AND SOUND LEVELS AND PERFORMANCE RATINGS SHALL BE AMCA-CERTIFIED INCLUDE BACKDRAFT DAMPER FOR EACH EXHAUST FAN.
NOTES:
1) SEE ELECTRICAL DRAWINGS FOR CONTROLS DETAILS.
2) PROVIDE EC MOTOR WITH 2-SPEED CONTROLLER.
3) 14" ROOF CURB.

EXTERNAL AIR LOUVER SCHEDULE

Table with columns: MARK, MFRG, MODEL, LOUVER SIZE (IN.), BLADE ANGLE, BLADE CENTERS (INOM.), BIRD SCREEN, FREE AREA (SQ.FT.), AIRFLOW (CFM), FACE VELOCITY (FPM), SERVICE, NOTES, DESCRIPTION.

- GENERAL NOTES:
A) FINISH TYPE 2-COAT 70% KYNAR 500 / HYLAR 5000 AAMA 2605. COORDINATE FINISH COLOR WITH ARCHITECT.
B) AMCA WATER PENETRATION CLASS RATING SHALL BE IN ACCORDANCE WITH THE AMCA WATER PENETRATION TEST FOR THE CONDITIONS INDICATED. CONTRACTOR SHALL PROVIDE WATER PENETRATION TEST RATINGS DEMONSTRATING COMPLIANCE WITH ABOVE REQUIREMENTS ALONG WITH SUBMITTALS.

SPLIT SYSTEM UNIT SCHEDULE

Table with columns: TONS, SEER, MFRG, OUTDOOR UNIT, MARK, UNIT WT. (LBS), INDOOR UNIT (AHU / COIL), MARK, UNIT WT. (LBS), DESCRIPTION, AIRFLOW (CFM), OUTSIDE AIR (CFM), COOLING TOTAL BTUH, NOTES.

- NOTES:
1) PROVIDE WALL MOUNTED THERMOSTAT.
2) PROVIDE RECTORSAL OR APPROVED EQUAL LENGTH LINESET PROTECTORS FOR ALL EXTERIOR REFRIGERANT LINES. COORDINATE FINISH COLOR WITH ARCHITECT
3) INCLUDE FACTORY PROVIDED CONDENSATE PUMP.
4) LOW AMBIENT CONTROL.

INFRARED HEATER SCHEDULE

Table with columns: Mark, Description, Mfrg, Location, Model, Fuel, Gas Pressure (IN.WC.), Gas Connection (IN), Heat Input High (MBH), Heat Input Low (MBH), Radiant Tube Dia. (IN), Reflector Type, Notes.

- NOTES:
1) Reflectors shall be mounted for vertical heating.
2) Provide 24 volt wall-mounted thermostat. Mount at 8'-0" A.F.F. Operate as required to maintain 70°F during occupied hours.
3) Assembled length shall be 17'-6".
4) Install combustion air intake / discharge per manufacturers recommendations.

SPLIT SYSTEM UNIT SCHEDULE

Table with columns: TONS, SEER, MFRG, UNIT, MARK, UNIT WT. (LBS), INDOOR UNIT, MARK, UNIT WT. (LBS), DESCRIPTION, AIRFLOW (CFM), OUTSIDE AIR (CFM), COOLING TOTAL BTUH, NOTES.

- NOTES:
1) PROVIDE WALL MOUNTED THERMOSTAT THERMOSTAT.
2) ROUTE LINESETS THROUGH ROOF WITH ROOF SHACK OR EQUIVALENT. COORDINATE ROOFTOP LINESET PENETRATIONS WITH ROOFING CONTRACTOR. NO PITCH POCKETS OR OTHER VERTICAL PENETRATIONS SHALL BE USED. UNLISTED / UNRATED FIELD FABRICATED ASSEMBLIES ARE DISALLOWED.
3) INCLUDE FACTORY PROVIDED CONDENSATE PUMP.

UNIT HEATER SCHEDULE

Table with columns: MARK, DESCRIPTION, BASIS OF DESIGN, MODEL, HEAT TYPE, SIZE (KW), AIRFLOW (CFM), VOLTS, PH, WEIGHT, NOTES.

- NOTES:
1) SURFACE MOUNT.
2) INCLUDE INTERNAL THERMOSTAT KIT. SET TO 60°F.
3) CONFIGURATION: BOTTOM INTAKE, TOP DISCHARGE.
4) INCLUDE FACTORY PROVIDED SUSPENDED MOUNTING KIT.



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Date: 03/18/2020, Job No.: 19059

Sheet Title: MECHANICAL NOTES, SCHEDULES, & LEGEND

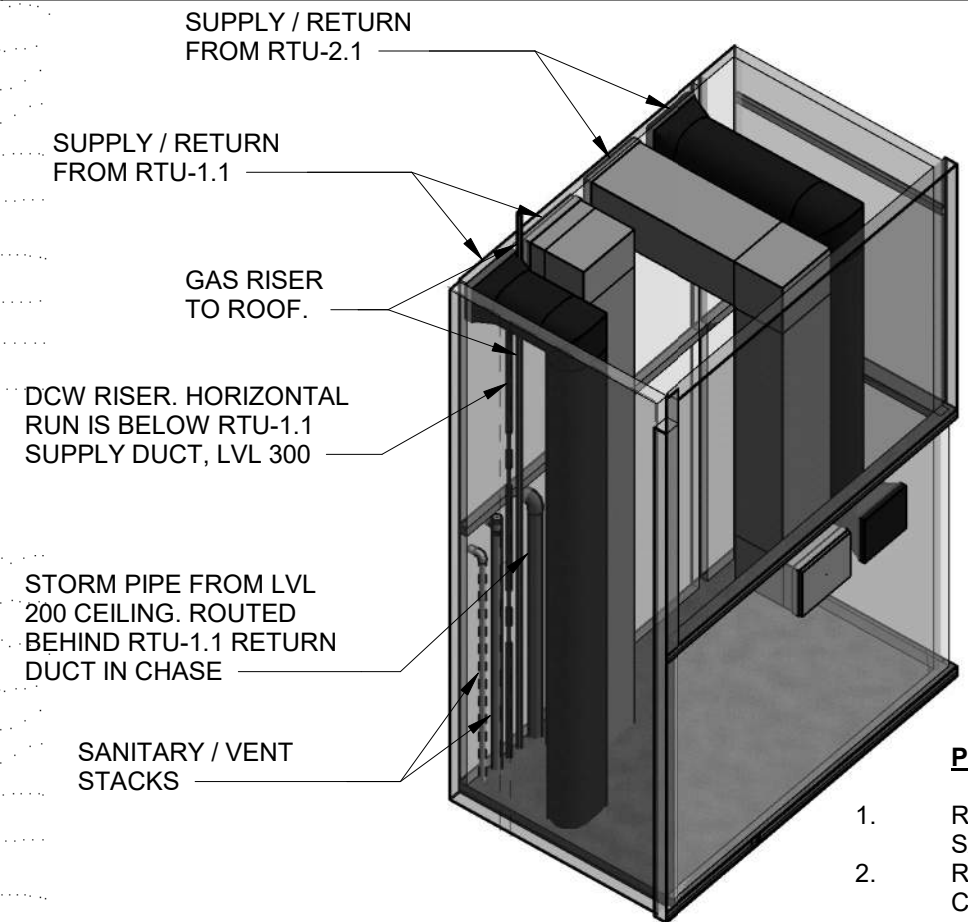
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M-0.01

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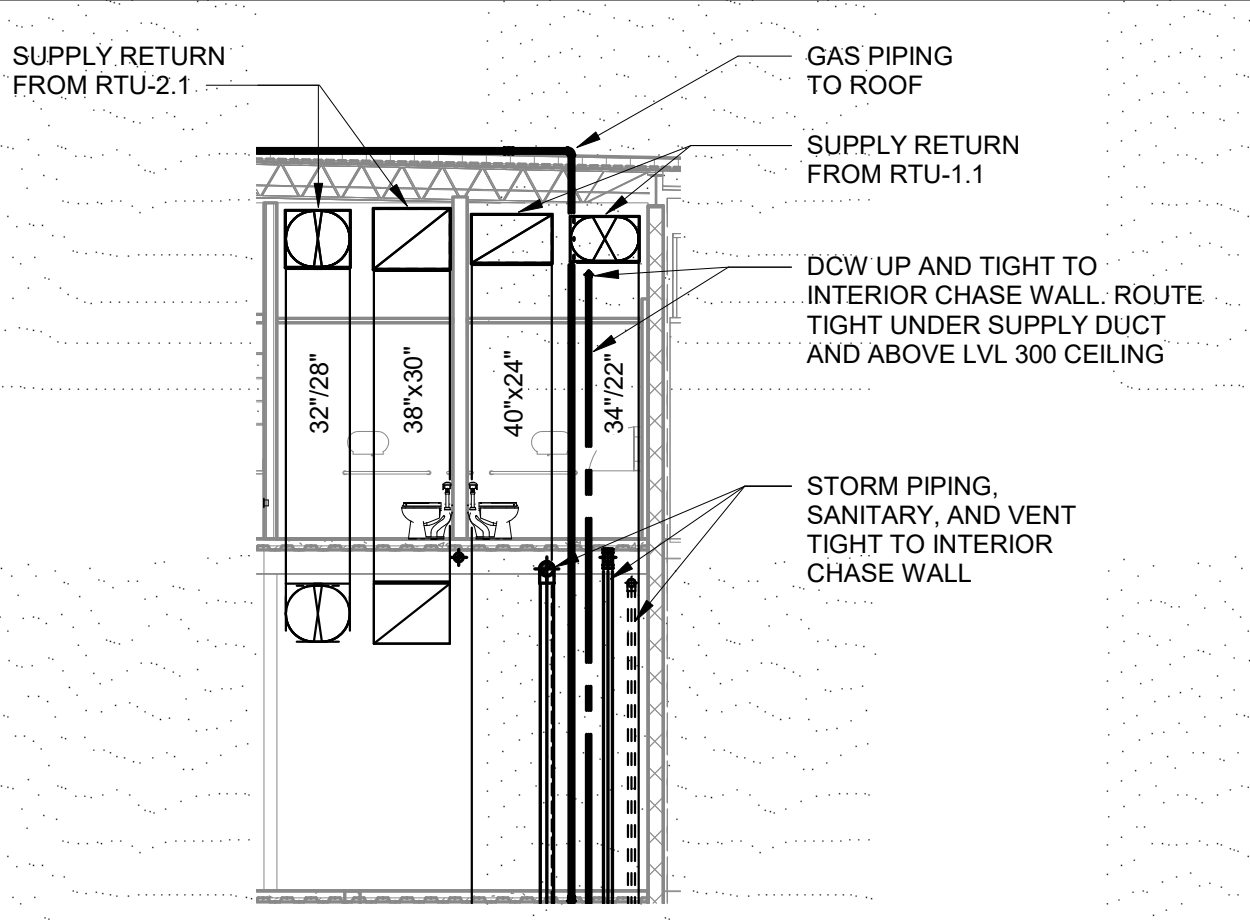
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PLUMBING COORDINATION NOTE

- REFER TO PLUMBING DRAWINGS P-1.01/1.02 FOR SANITARY AND VENT COORDINATION.
- REFER TO PLUMBING DRAWINGS P-2.01/2.02 FOR DCW COORDINATION.



DUCTWORK NOTES FOR COURT ROOMS:

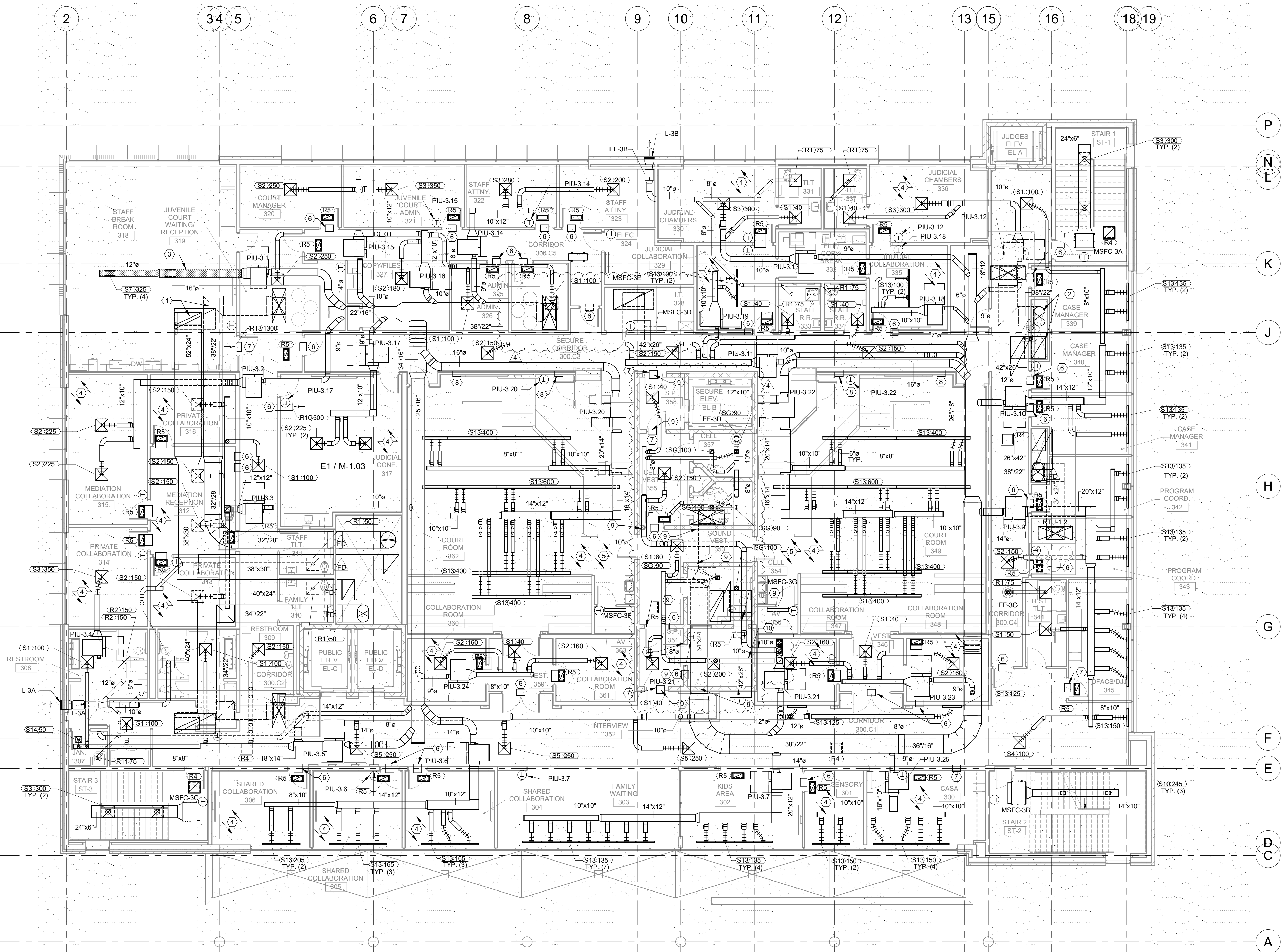
- PROVIDE ACUSTICAL SURFACES, INC. MODEL QUIET-DUCT WRAP SOUND REDUCTION INSULATION ON ALL DUCTWORK LOCATED IN THE COURT ROOMS 349 AND 362.
- WRAP INSULATION SHALL BE 3/4" THICK. SOUND ABSORBING PROPERTIES MEETING FOLLOWING ABSORPTION COEFFICIENTS IN ACCORDANCE WITH ASTM C 423:

OCTAVE BAND	125	250	500	1000	2000	4000
ABSORPTION COEFF.	0.12	0.10	0.23	0.58	0.81	0.89

- SHEET KEY NOTES:**
- DUCTWORK FROM RTU-2.1 SHALL BE INSTALLED FOR FUTURE CONNECTION TO ROOFTOP UNIT. INSTALL FIRE DAMPERS WHERE REQUIRED.
 - DUCTWORK FROM RTU-2.2. DUCTWORK SHALL BE INSTALLED FOR FUTURE CONNECTION TO ROOFTOP UNIT. INSTALL FIRE DAMPERS WHERE REQUIRED.
 - SUPPLY DUCTWORK SERVING THIS SPACE SHALL BE DOUBLE WALL SPIRAL.
 - SOUND SENSITIVE SPACE. RETURN GRILLE SHALL INCLUDE INTERNALLY LINED RETURN BOOT. AIR TRANSFER OPENING SHALL BE INSTALLED WITH INTERNALLY LINED SOUND BOOT. REFER TO MECHANICAL DETAIL 2 / M-501. INSTALL DUCT LINER 20'-0" MINIMUM DOWSTREAM FROM THE DISCHARGE OF ANY TERMINAL UNIT THAT SERVES THIS SPACE. ALL RIGID LOW PRESSURE SUPPLY DUCTWORK THAT SERVES THE COURTROOM SHALL BE LINED.
 - INSTALL LINEAR SLOT DIFFUSERS IN A CONTINUOUS PATTERN. SEE DETAIL 5 / M-503.
 - 14"x10" AIR TRANSFER OPENING.
 - 16"x14" AIR TRANSFER OPENING.
 - 18"x18" AIR TRANSFER OPENING. AIR TRANSFER OPENING SHALL BE INSTALLED WITH INTERNALLY LINED SOUND BOOT. REFER TO MECHANICAL DETAIL 2 / M-501.
 - SECURITY BARS SHALL BE INSTALLED WHERE DUCT PENETRATES WALL AT THIS LOCATION.
 - SUPPLY DUCT RUN OUTS ROUTED WITHIN STRUCTURAL WEBBING.

E1 M-1.03 MECHANICAL CHASE - COORDINATION VIEW

E3 M-1.03 MECHANICAL CHASE - SECTION VIEW
1/8" = 1'-0"



A3 M-1.03 MECHANICAL PLAN - LEVEL 3
1/8" = 1'-0"
0 5 10 25 FT



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07/02/2020



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FORSYTH COUNTY JUVENILE COURT BUILDING

FORSYTH COUNTY BOARD OF COMMISSIONERS

LANIER PARKWAY
CUMMING, GA 30040

PRINT RECORD

No.	DATE	DESCRIPTION
03/16/2020	03/16/2020	Release for Bid and Permit
05/08/2020	05/08/2020	Release for Bid
07/07/2020	07/07/2020	Addendum #4

Drawn By: JEB
Checked By: VLM
Date: 03/18/2020
Job No.: 19059

Sheet Title
LEVEL 300 FLOOR PLAN - MECHANICAL

Sheet No.
M-1.03
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