



1 April 2014

**ADDENDUM #2**

*(Total of 13 pages)*

**Addition and Renovations to  
Eastern West Virginia Community & Technical College  
Moorefield, West Virginia**

**RFB 14101**

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The following items are clarifications and/or changes to the scope of the work and shall be included in the contract price.

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**ARCHITECTURAL**

Item #1    General

- A.    Supplementary Instructions to Bidders: Under 4.3.1.1, delete reference to Request for Bids/Quotations that is to be attached to front of form of proposal and the reference to Buyer File Number. There is none. Outside of envelopes to have the following information when submitting bids to Owner:

SEALED BID

Proposal for:            Addition & Renovations to  
Eastern West Virginia Community & Technical College

Request for Bids:    14101

Time:                    3:00 PM Eastern Time

Date:                    15 April 2014

Item #2    Section 01210 – Allowances

- A.    Allowance No. 3 – Planting: Note that Planting Allowance is to be included within the base bid as are all other allowances. Note however that the relocation of the existing shrubs and plantings at east end of existing building are not included within this planting allowance. Relocation and temporary bedding of existing plantings is to be included as part of demolition and properly stockpiled on the site and maintained during construction. Replanting of these existing landscape elements is however included within the allowance.

Item #3    Section 01500 – Temporary Facilities and Controls

- A.    Note all power company charges regarding the upgrade of service including costs of changing out the existing transformer shall be paid for by Owner. This does not however include cost associated with new transformers installed adjacent to the existing building and all work associated inside the building with upgrading this service. This cost to be included in Base Bid.

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Item #4 Section 01230 – Alternates

- A. Alternate #1. Alternate 1E is hereby modified to read as follows:

“This alternate shall include all labor and materials necessary for the installation of panels “PM-1B” and “PM-1C” along with associated conduit and conductor from existing main distribution panel MDS to these panels. Work from these panels to the respective electrical devices described in Alternates 1A, 1B, and 1C are to be included in each respective alternate. It can be assumed that the Owner’s acceptance of any individual or combination of Alternates 1A, 1B, and 1C would also require acceptance of Alternate 1E.

- B. Alternate 1A through 1E – work required for Alternates 1A through 1E is to be done to minimize the disruption of use of the spaces by the Owner. Contractor has option to perform this work between 5:00 pm and 7:00 am of the following day or over weekends between 5:00 pm on Friday and Saturday 7:00 am. Rooms are to be usable by the Owner between 7:00 am and 5:00 pm daily. Ceilings may remain open during this period as long as HVAC and lighting remains operational. Note also that summer operations at the College (5/15/14 through 8/1/14) are more flexible and may allow individual rooms to be made available for longer periods.

Item #5 Section 04810 – Unit Masonry Assemblies

- A. In Paragraph 2.1B – Concrete Masonry Units, compressive strength of 3750 psi is required. Note that lightweight CMU may be used above and below grade.

Item #6 Section 05120 – Structural Steel Framing

- A. Refer to Article 1.7, sub-paragraph A – Fabricator Qualifications, and add the following, “In lieu of the AISC Certification, a fabricator will be considered qualified if they submit documentation acceptable to the architect/engineer demonstrating a minimum of ten years’ experience in the successful fabrication and delivery of structural steel for buildings of comparable size and complexity as well as sufficient production capacity to fabricate structural steel without delaying the Work.”
- B. Refer to Article 1.7, sub-paragraph B – Installer Qualifications, and add the following, “In lieu of the AISC Certification, an installer will be considered qualified if they submit documentation acceptable to the architect/engineer demonstrating a minimum of five years’ experience in the successful erection of structural steel for buildings of comparable size and complexity.”

Item #7 Section 08410 – Aluminum Entrances and Storefronts

- A. Aluminum Door and Storefront supplier to coordinate door hardware for the aluminum doors with the specified hardware in section 08710.

Item #8 Section 08710 – Door Hardware

- A. Add a power supply to set #1. Power supply to be BPS-24 (size as required) by Securitron or equal. Door hardware supplier to coordinate door hardware requirements with Aluminum Door and Storefront supplier.

- Item #9 Section 08800 – Glazing
- A. Subject to compliance with requirements, add the following as an acceptable manufacturer for fire rated glass used throughout project.
1. SaftiFirst
- Item #10 Section 09260 – Gypsum Board Assemblies
- A. Refer to Article 3.9, paragraph D and add description for Level 3 gypsum board finish:
- "All joints and interior angles shall have tape embedded in joint compound and shall be immediately wiped with a joint knife leaving a thin coating of joint compound over all joints and interior angles. One additional coat of joint compound shall be applied over all joints and interior angles. Fastener heads and accessories shall be covered with two separate coats of joint compound. All joint compounds shall be smooth and free of tool marks and ridges."
- Item #11 Section 12355 – Laminated Plastic Casework and Countertops
- A. Subject to compliance with requirements, add the following as an acceptable manufacturer for laminated plastic casework and countertops throughout project.
1. Fertig, Moorefield, West Virginia
- Item #12 Drawing C100 – Site Plan, Symbols & General Notes
- A. Cutting and trenching of existing asphalt pavement for required electrical work to serve new lighting on inside of center drive is an acceptable method for installing required electrical conduits and wiring. This cutting and trenching will be required to maintain traffic flow with adequate protectives to bring this installation. Asphalt paving to be patched to match adjacent surface when completed. Note that all work regarding this is to be included in Alternate No. 2: East Parking Area and Related Site Improvements.
- Item #13 Drawing C300 – Sediment Control Plan
- A. Construction limits shown is intended to show the outer limits of any disturbed area and not specific limits of construction for the General Contractor. Contractor to maintain adequate fencing around area of construction to protect public.
- Item #14 Drawing A001 – Abbreviations, Symbols, & General Notes
- A. Blocking: Note that there are provisions for Owner to provide flat panel televisions and window blinds. This work is not part of this contract however, general contractor to provide necessary blocking at all locations where TV's or blinds are called for.
- Item #15 Drawing A003 – Room Schedule, Notes & Partitions Types
- A. Refer to the Room Finish Schedule and note that rooms 3V1, 3M1, 3AS1, 3AT1, & 3AE1 are to receive a level 3 gypsum board finish.
- B. Refer to General Partition Notes and delete note #1.
- C. Refer to Remark Notes #3 for the Room Finish Schedule and delete note referencing the "additional lower suspended acoustical panel ceiling system."
- D. On Room Finish Schedule, delete remark #5 for Corridor 1C4. Abuse resistant gyp board only occurs in the stairs.

- E. On the Room Finish Schedule, add room number 209B. Finishes for this room are Flooring: SV; Wall Base: WB; Walls: GB-PT; Ceiling: GB/APC; Ceiling Type: A; Ceiling Height: 10'-0"; Fire-rating: 1-Hour.

Item #16 Drawing A203 – Building Sections

- A. Refer to building section 2-A203 and note that the ceiling in the Stair is fire-rated gypsum board ceiling on a metal suspension system. Delete reference to acoustical panel ceiling system.

Item #17 Drawing A501 – Stair Sections

- A. Refer to stair section 2-A501 and revise spacing hole spacing in steel roof beam for condensate piping per attached Sketch AD2-2.

## **STRUCTURAL**

Item #1 Drawing S104 – Roof Framing Plan

- A. Added Keynote 7. Refer to attached Sketch AD2-1.

Item #2 Drawing S402 – Framing Sections

- A. Detail 6 – Added detailing for slab edge and deck bearing at roof/floor beam connection. Refer to attached Sketch AD2-3.
- B. Detail 7 - Added detailing for slab edge and deck bearing at roof/floor beam connection. Refer to attached Sketch AD2-4.
- C. New Detail 7a added to drawing. Refer to attached Sketch AD2-3.
- D. Detail 9 – added holes for condensate piping. Refer to attached Sketch AD2-2.

## **PLUMBING**

Item #1 Drawing P001 – Plumbing Legend, Schedules and Notes

- A. Laboratory Service Notes: Revise note #4 to read, "The general contractor will provide the service fittings indicated on the "A700" series plans, and as specified in Section 12362. General Contractor will also provide the laboratory sinks and cupsinks, as well as strainers, stoppers, and tailpieces. Plumbing contractor under division 15 will need to provide all other components to make connection to the service fittings and waste tailpieces."

## **MECHANICAL**

Item #1 Section 15975 – Direct Digital Control System

- A. Subject to compliance with requirements, add the following as an acceptable manufacturer for direct digital control systems:
  - 1 Alerton, as sold and installed by a factory authorized equipment dealer supporting the region.

Item #2 Drawings H101 – HVAC General Notes and Symbol Legend

- A. “In the HVAC General Notes, note #7, delete the first sentence which reads: “PHASING – SEE DIVISION 1 SPECIFICATION PHASING DOCUMENTS FOR SPECIFIC PHASING INSTRUCTIONS.”

## ELECTRICAL

Item #1 Drawing E001 - Electrical Symbols & Lighting Fixtures Schedule & Notes

- A. Add the following symbols to the symbol legend:
1. Receptacle with “WP/GFI” subscript. Description to indicate “20 amp, 125V, duplex ground fault interrupter type receptacle. Hubbell #GF20ILA with weatherproof “in-use” coverplate. Mount vertically at 24” AFG to centerline unless otherwise noted.”
  2. Corner-mount occupancy sensor with subscript “OC2”. Description to indicate “Dual-technology (passive infrared and ultrasonic) corner-mount occupancy sensor. Wattstopper #DT-200. Locate and adjust for optimum room coverage. Sensor shall be provided with an isolation relay to interface with building automation system.”
- B. Add the following fixture to the fixture schedule:
1. LED emergency light, Lithonia catalog #ELM2-LED. Fixture shall have (2) LED lamp heads, white housing, dual-voltage input, and maintenance-free Ni-Cad battery. Approved equals by Sure-Lites, Emergi-Lite, and Dual-Lite.

Item #2 Drawing E100 – Site Plan – Electrical

- A. Revise the circuit serving the “Pole D” fixtures as follows:
1. Revise the wire size for the homerun to be #4s instead of #6s. Revise the wire size for the rest of the circuit to be #6s instead of #8s.
- B. Revise Coded Note #3 as follows: To **new 20A/2P** circuit breaker in Pan. “LP-1” via new contactor “CON-5”. **Remove existing spare circuit breakers as required to install new breaker. New breaker shall match existing type and AIC rating.** Refer to detail for additional information.
- C. Revise the future car charging station as follows:
1. Delete the branch circuit homerun and coded note #13. Provide 2” conduit with pullstring from charging station location to the existing main electrical room.
- D. Revise contactor “CON-5” to be 8-pole instead of 2-pole.
- E. New contactors “CON-4” and “CON-5” shall be located in the existing main electrical room.
- F. Add Coded Note 11 symbol with lasso to new underground wiring extending between new “Pole C” and existing pole.

Item #3 Drawing E101 – Demolition – First and Second Floor Plans – Electrical

- A. Refer to Sketch AD2-E1.

- B. Revise the coded note by the fire alarm horn/strobe on the second floor to indicate "1" instead of "2".
- Item #4 Drawing E201 – Lighting – First and Second Floor Plans – Electrical
- A. Room 112B: Delete occupancy sensor "OC1". Provide corner-mount occupancy sensor "OC2". Install occupancy sensor in southeast corner of the room.
- Item #5 Drawing E301 – Power – First and Second Floor Plans – Electrical
- A. Feeder routing between "MSWBD" and "MDP" shall be as follows: Feeder shall route up through ceiling of the existing main electrical room to Room 207A. Feeder shall then route through Room 207 and Corridor 2C1 to Room 208 and turn up into new electrical room in the attic. Coordinate exact routing in field.
- Item #6 Drawing E401 – Systems – First and Second Floor Plans – Electrical
- A. Stair 1S3: Revise the visual/audio fire alarm device to be visual only.
  - B. Alternate: Add new security camera by west exterior double-doors with Coded Note #8. Camera is relocated from demolition plan under alternate only.
  - C. Provide new cabling to all relocated security cameras, intercoms, and keypads. Cabling shall match existing. Field verify exact requirements.
- Item #7 Drawing E501 – Lighting/Power/Systems – Attic Plans – Electrical
- A. Room 3AS1
    - 1. Add a low-voltage power pack to control occupancy sensors.
    - 2. Add a new emergency lighting head on the north wall. Connect to new attic circuit serving emergency lighting.
  - B. Room 3AE1
    - 1. Provide a surface-mounted circuit with (3)-#12-1/2"C to the FAEP. Connect to 20A/1P circuit breaker in Pan. "RP-PA".
- Item #8 Drawing E601 – Power Riser Diagram and Schedules
- A. Switchboard "MSWBD"
    - 1. Revise the 1600A/3P main circuit breaker to be LSIG type.
    - 2. Revise the (2) 800A/3P breakers to be LSI type.
  - B. Revise switch "SW-1" to be LSI type.
  - C. Panel "MDP"
    - 1. Revise the 200A/3P circuit breaker serving transformer "T-2" to be LSI type.
    - 2. Revise the 200A/3P circuit breaker serving "AHU-2" to be 150A/3P. Revise the feeder tags to be 150B instead of 200B.
  - D. Panel "SDP"
    - 1. Revise the 400A/3P main circuit breaker to be LSI type.
    - 2. Revise the voltage to be 208/120V instead of 480/277V.
    - 3. Revise AIC to 22,000 from 65,000.

- E. Switchboard "MDS"
  - 1. Provide closure panels on all openings remaining after removal of existing main circuit breaker and bus.

Item #9 Drawing E602 – Mechanical Equipment and Motor Starter Schedule

- A. Revise the remarks for CWP-1 and CWP-2 to indicate: **"To spare 100A/3P circuit breaker in "MDS". Refer to power riser diagram for additional information."**

Item #10 Drawing E603 – Alternate Mechanical Equipment Schedule

- A. All alternate wall heaters are identical and are named "A-EWH-1" on the floor plans. Refer to floor plans for all locations and circuit information. Delete wall heaters "A-EWH-2" through "A-EWH-21" from the schedule.

Item #11 Drawing E701 – Electrical Details

- A. Delete the scale bars from Elevation A-A and Elevation B-B. Elevations are not to scale.
- B. Refer to sketch "AD2-E1" for occupancy sensor wiring diagram.
- C. Emergency Shutdown Pushbutton Detail: Provide clear cover over all pushbuttons to prevent accidental operation.
- D. Fire Alarm Wiring Diagram: Wiring between existing FACP and new FAEP shall be wiring types "D" and "S" – refer to fire alarm cable legend. Confirm cabling requirements with manufacturer.

Item #12 Drawing E703 – Electrical Details

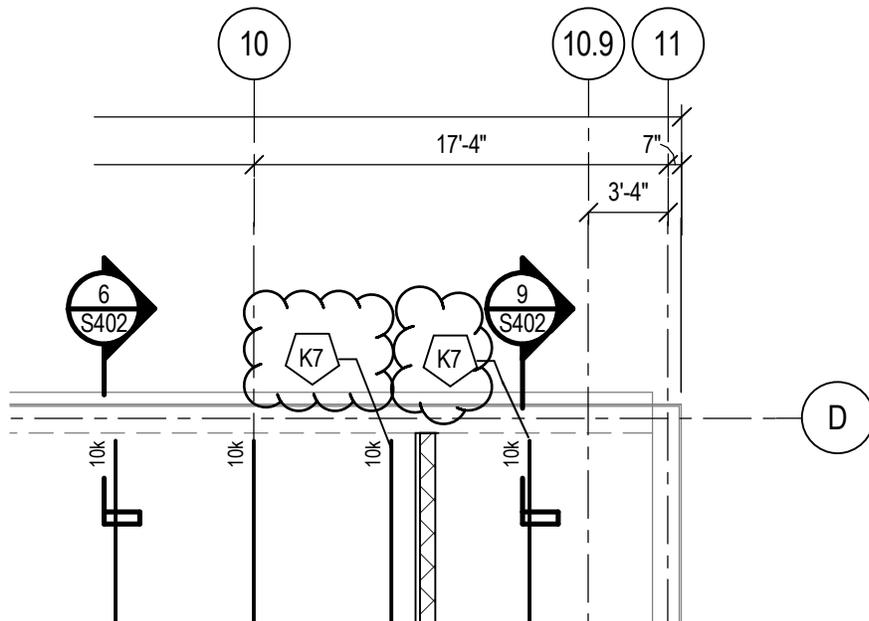
- A. Delete pole base detail for Pole D. Pole D base shall be the same as Poles A and B.

Item #13 Drawing E801 – Electrical Details

- A. Telecommunications Riser Detail: On the first floor in the new addition, revise termination tag "T-05" to be "T-04".

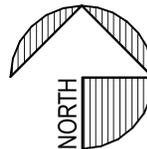
Attachments:

Sketches AD2-1 through AD2-4, dated 31 Mar 14, 4 pages  
Sketches AD2-E1 and AD2-E2, dated 4 April 14, 2 pages



## ROOF FRAMING PLAN

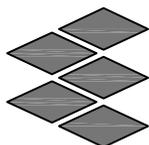
1/8" = 1'-0"



### PLAN NOTES:

1. T/STEEL BEAM EL. SEE PLAN.
2. SEE SHEET S401 FOR METAL DECK SCHEDULE.
3. STEEL FABRICATOR SHALL DESIGN BEAM END CONNECTIONS FOR UNFACTORED LOADS WHERE INDICATED ON PLAN.
4. "A" INDICATES JOIST TOP CHORD AXIAL FORCE DUE TO WIND OR SEISMIC LOADS.
5. DOORS & WINDOWS ARE SHOWN IN APPROXIMATE LOCATIONS, SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
6. SEE SHEET S101 FOR ABBREVIATIONS & LEGEND (SYMBOLS).
7. ADD HOLES FOR CONDENSATE PIPING INTO BEAM PER SECTION 9/S4.2.

REFERENCE DRAWING S104



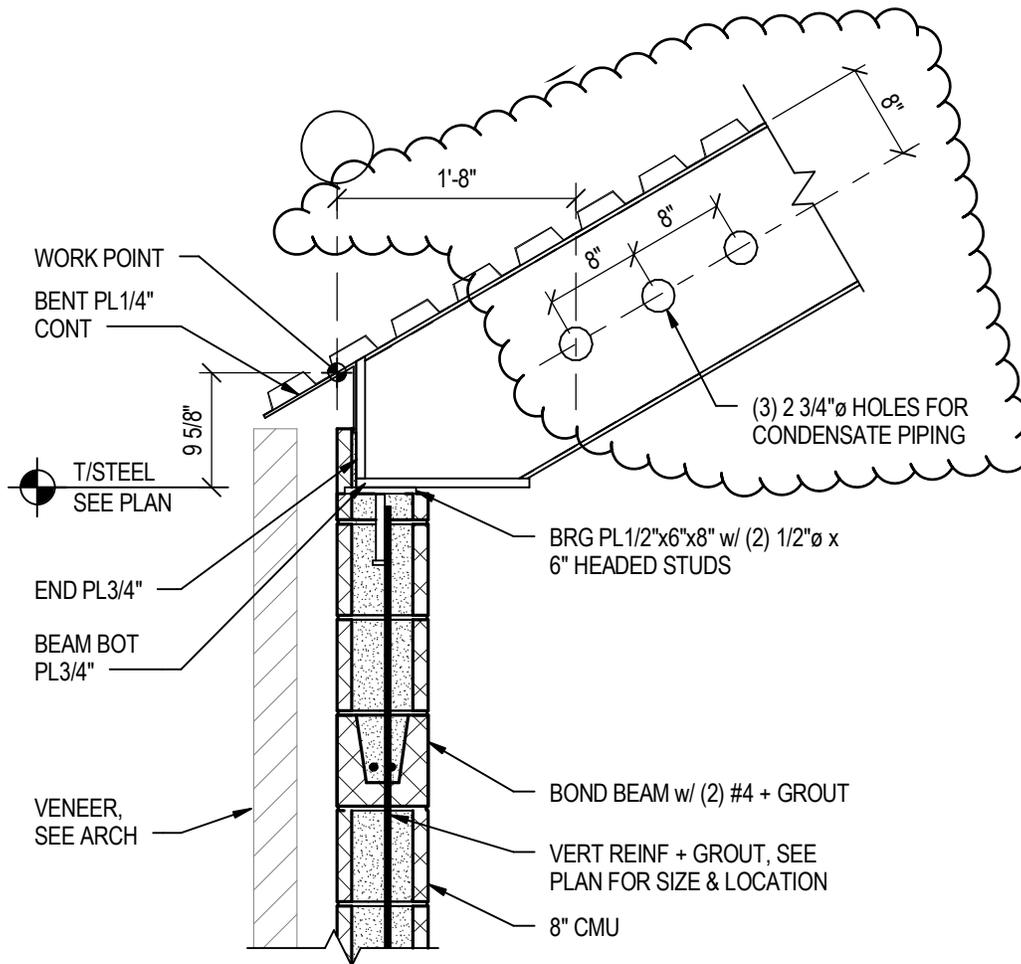
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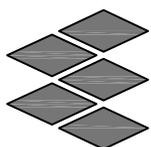
AD2-1

31 MAR 14



SECTION 9  
 3/4" = 1'-0" S402

REFERENCE DRAWING S402



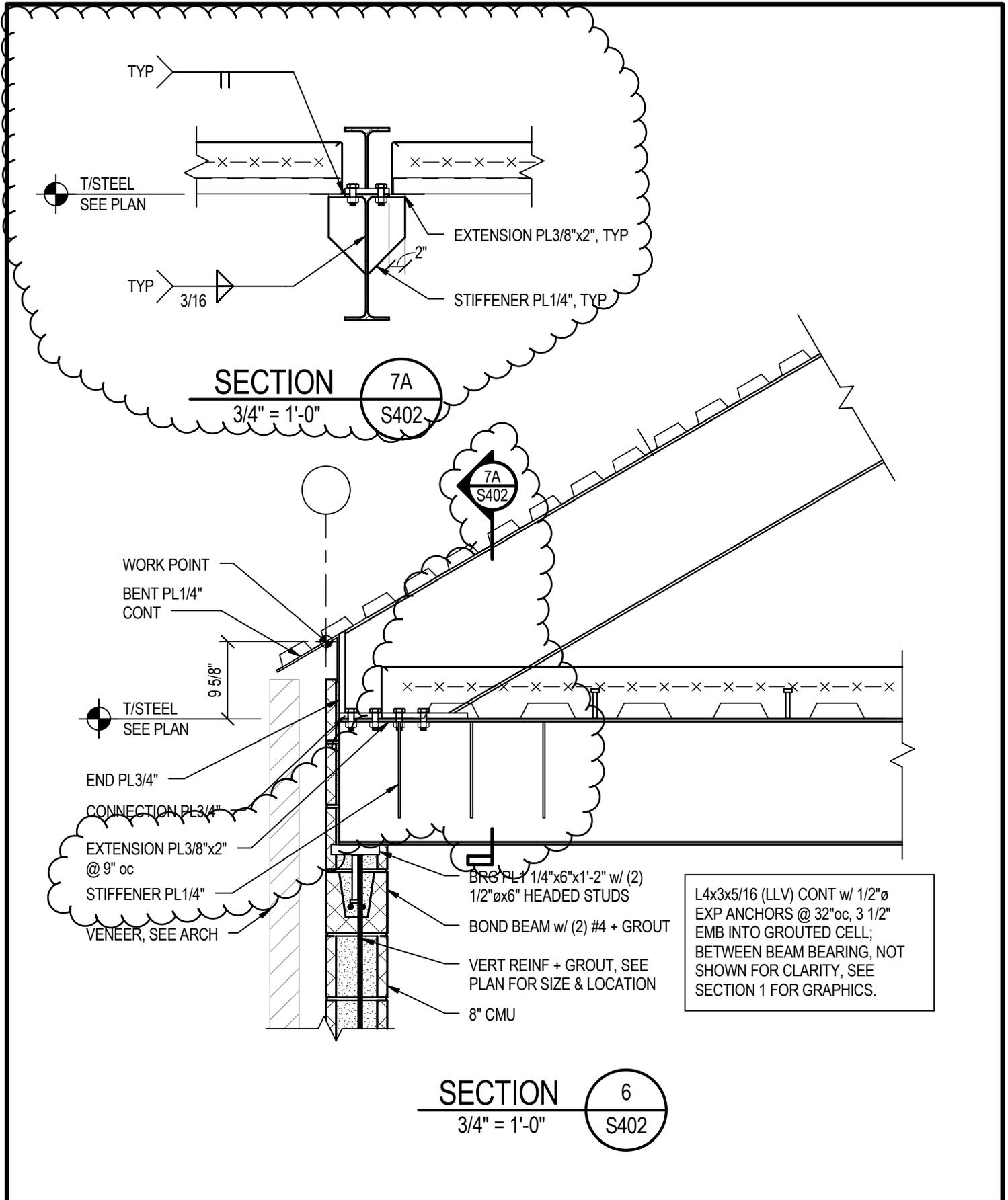
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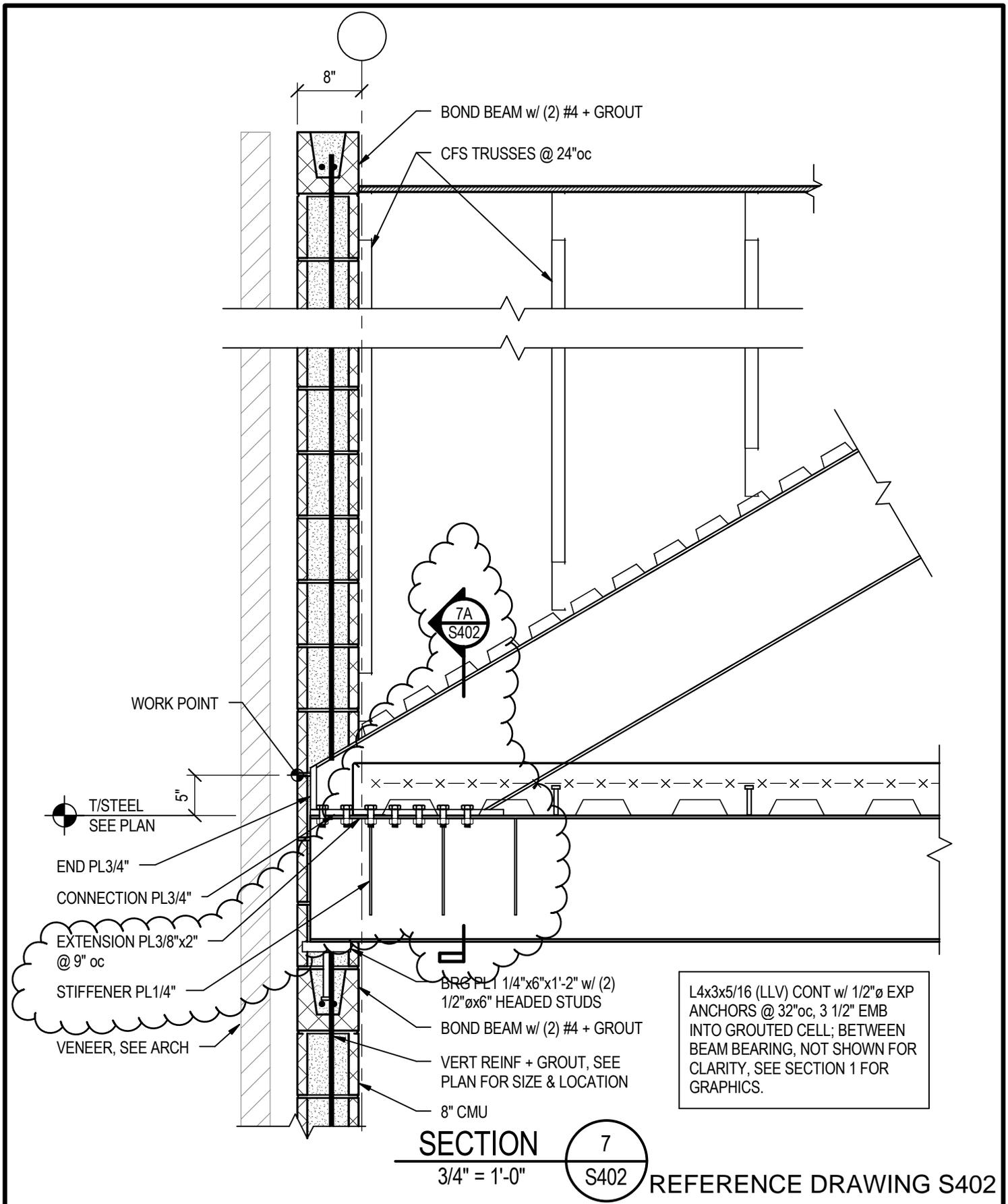
AD2-2

31 MAR 14



L4x3x5/16 (LLV) CONT w/ 1/2"Ø EXP ANCHORS @ 32"oc, 3 1/2" EMB INTO GROUTED CELL; BETWEEN BEAM BEARING, NOT SHOWN FOR CLARITY, SEE SECTION 1 FOR GRAPHICS.

SECTION 6  
3/4" = 1'-0" (6) S402



**SECTION**

3/4" = 1'-0"

7  
S402

L4x3x5/16 (LLV) CONT w/ 1/2"Ø EXP ANCHORS @ 32"oc, 3 1/2" EMB INTO GROUDED CELL; BETWEEN BEAM BEARING, NOT SHOWN FOR CLARITY, SEE SECTION 1 FOR GRAPHICS.

WORK POINT

T/STEEL  
SEE PLAN

END PL 3/4"

CONNECTION PL 3/4"

EXTENSION PL 3/8"x2"  
@ 9" oc

STIFFENER PL 1/4"

VENEER, SEE ARCH

BOND BEAM w/ (2) #4 + GROUT

CFS TRUSSES @ 24"oc

BRG PL 1 1/4"x6"x1'-2" w/ (2)  
1/2"Øx6" HEADED STUDS

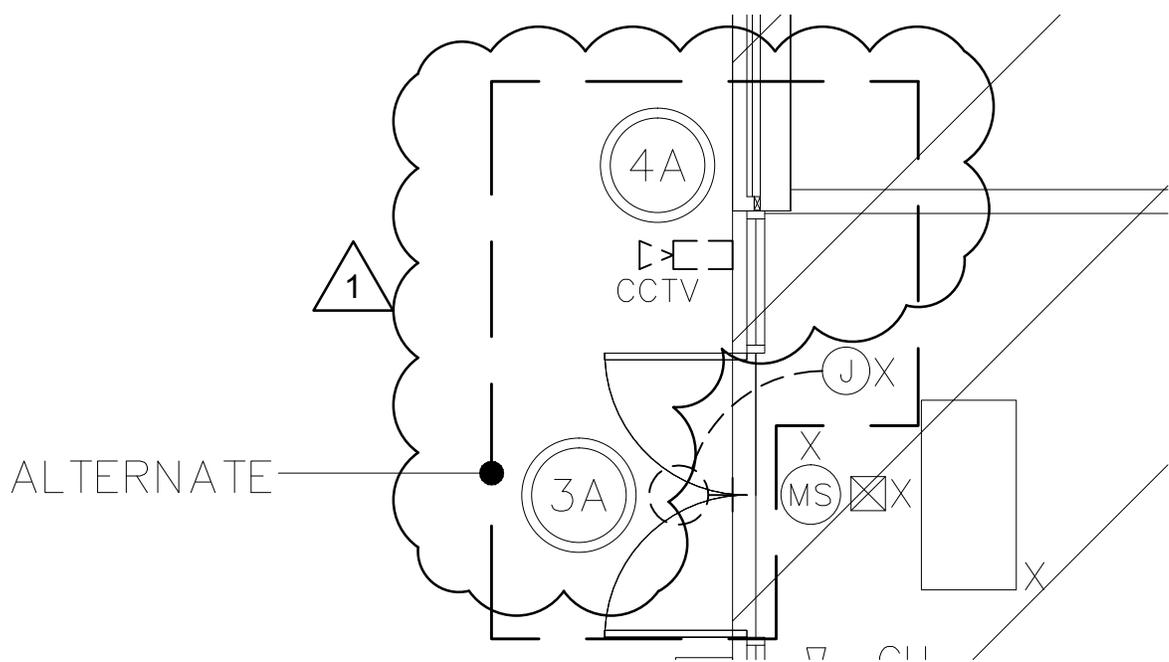
BOND BEAM w/ (2) #4 + GROUT

VERT REINF + GROUT, SEE  
PLAN FOR SIZE & LOCATION

8" CMU

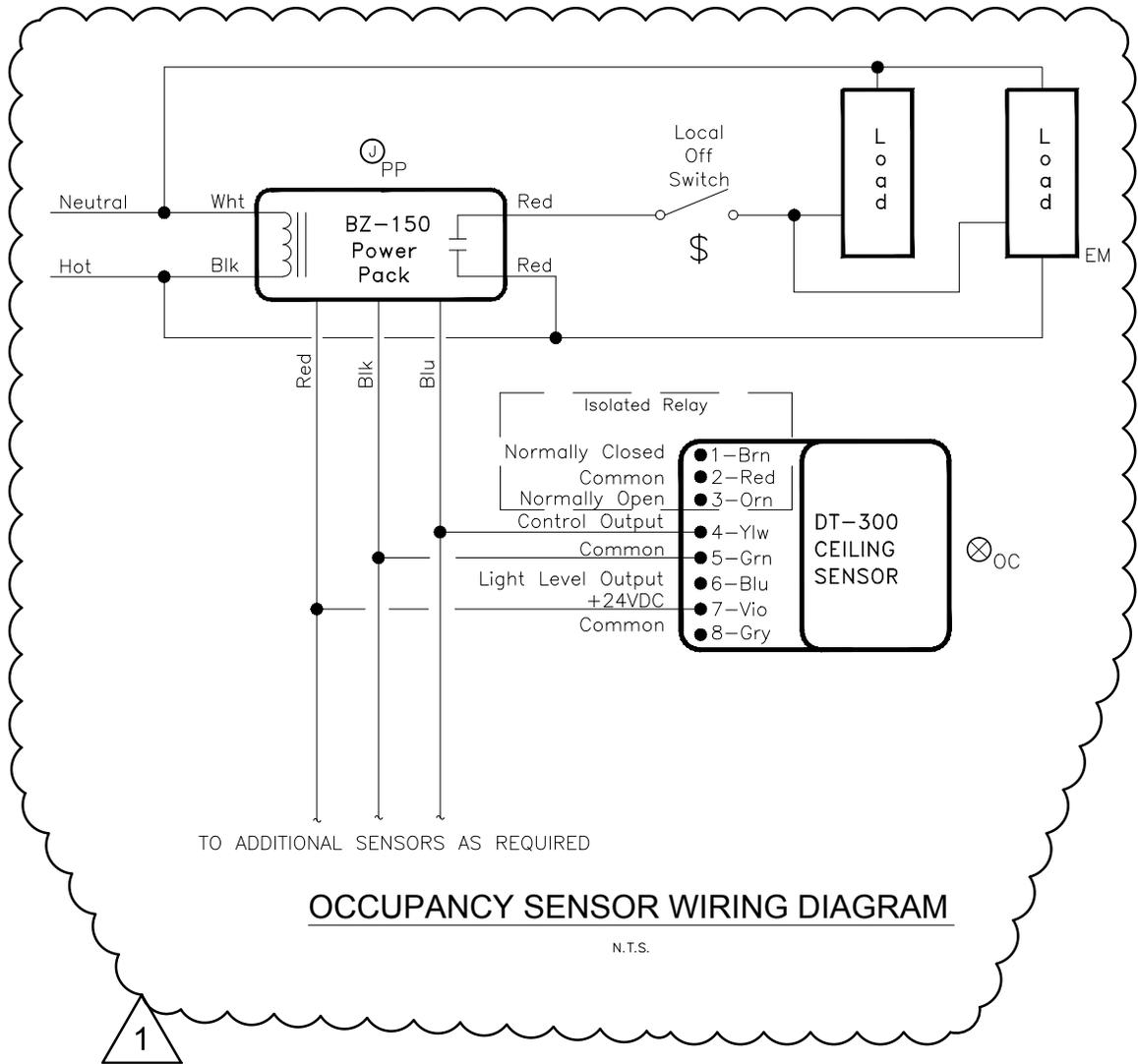
- 1 WIRING BACK TO JUNCTION BOX TO REMAIN.
2. KEY PAD SECURITY DEVICE TO BE REMOVED, STORED AND RELOCATED TO LOCATION SHOWN ON SYSTEM PLAN. CONDUIT TO BE EXTENDED TO NEW LOCATION. REMOVE CABLING BACK TO SOURCE OR NEXT DEVICE TO REMAIN.
  3. INTERCOM SECURITY DEVICE TO BE REMOVED, STORED AND RELOCATED TO LOCATION SHOWN ON SYSTEM PLAN. CONDUIT TO BE EXTENDED TO NEW LOCATION. REMOVE CABLING BACK TO SOURCE OR NEXT DEVICE TO REMAIN.
  4. CLOSED CIRCUIT TELEVISION DEVICE TO BE REMOVED, STORED AND RELOCATED TO LOCATION SHOWN ON SYSTEM PLAN. CONDUIT TO BE EXTENDED TO NEW LOCATION. REMOVE CABLING BACK TO SOURCE OR NEXT DEVICE TO REMAIN.
  5. EXISTING SMOKE DETECTOR TO REMAIN. MAINTAIN AND

- 1 2A. EXISTING VAV BOX TO REMAIN.
- 3A. LIGHTING FIXTURE TO BE REMOVED. REMOVE CONDUIT AND WIRING BACK TO JUNCTION BOX TO REMAIN.
  - 4A. CLOSED CIRCUIT TELEVISION DEVICE TO BE REMOVED, STORED AND RELOCATED TO LOCATION SHOWN ON SYSTEM PLAN. CONDUIT TO BE EXTENDED TO NEW LOCATION. REMOVE CABLING BACK TO SOURCE OR NEXT DEVICE TO REMAIN.

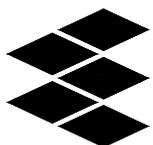


**DEMOLITION - FIRST FLOOR PLAN - ELECTRICAL**





1



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AD2-E2

4 APRIL 14