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**REQUEST FOR INFORMATION      DATE: July 11, 2016      NO.: RFI-196**

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To: Cannon Design

Attn: Kelvin Patel

From: Paric Corporation

Requested By: Joe Voypick

Project Name: 15051-Webster University Interdisciplinary Science Building      Project No.: 15051

Subject: Power and Data Clarifications

Response Required By: July 18, 2016

Drawing / Spec Reference:

**Information Requested:**    **WTA Comments:** Architect to respond to items 1-4. - Patrick Garner, WTA 7/21/16

The following are questions related to Lecture Hall 160 power and data. See attached drawings:

1. We need dimensions to locate the two floor boxes on the stage.
2. We need to confirm that the (2) receptacles shown on circuit 22 along column line 4.5 are to be recess mounted in the gyp board around the columns, referencing detail 11 on sheet A0810.
3. We need to confirm that the receptacle shown on circuit 22 in the front of the stage is mounted to the face of the stage. If so, is it surface mounted or recessed in the wood paneling, referencing detail 4 on sheet A0801.
4. Are the weatherproof receptacle and intercom stations shown outside of the southwest exit door to be surface mounted or recessed into the fiber cement panel, referencing wall detail WA-L2 on sheet A0400?
5. Drawing T0101.B, keyed note 23, indicates rough-in for multiple video monitors mounted on the back wall of the stage, but there is no power shown on sheet E0101.B for them. Is there power required to be run to the monitors?
6. Drawing T0101.B, keyed note 23, indicates rough-in for a subwoofer under the stage. How does it mount under the stage?

**Response:**    Item #5 - Power will be required. We are awaiting the final AV design package from Webster University's AV consultant. Final monitor rough-in requirements will be included in an upcoming drawing revision.  
Item #6 - We are awaiting the final AV design package from Webster University's AV consultant. Final subwoofer rough-in requirements will be included in an upcoming drawing revision.  
Tom Becker, Faith Group 7/14/16

Answered By: \_\_\_\_\_

Date: \_\_\_\_\_



This information is provided a

This information is provided as an interpretation of the Contract Documents for implementation. It is not an authorization for change to the Contract Sum or Contract Time. If this information results in a claim for a change to the Contract, the Contractor shall notify the [Construction Manager][Architect] of a change through the change process.

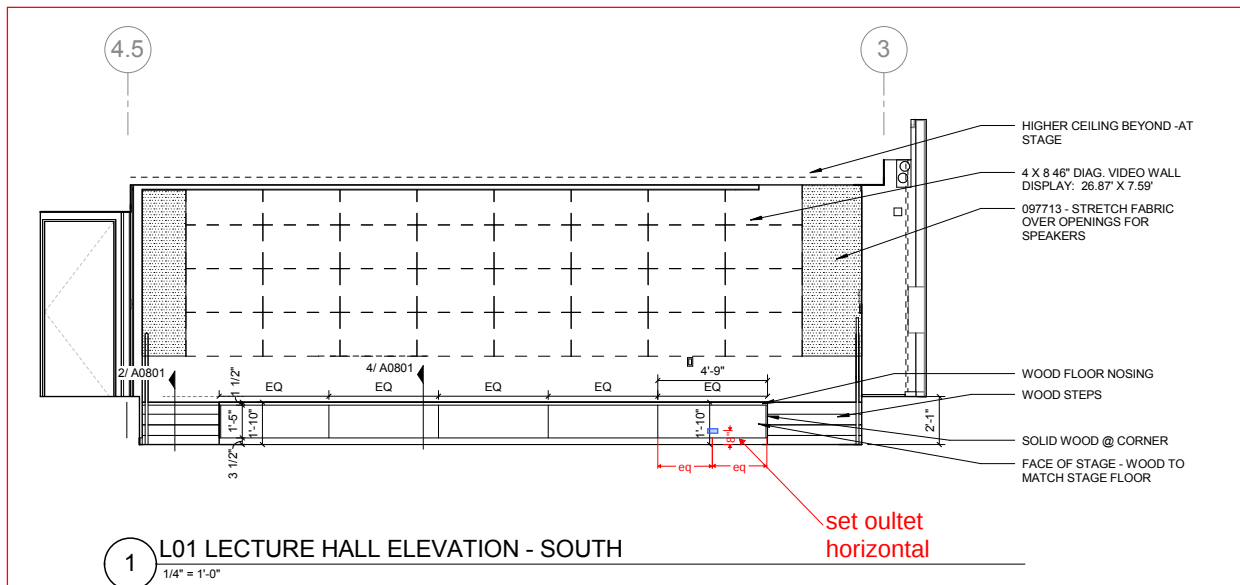
1. Stage outlets locations are provided with RFI 162 response
2. Yes - outlets to be recess mounted - see page 3 for detail and relocation of north outlet to other side of column cover - confirm that this can fit. Note no fireproofing on these columns.
3. Outlet to be flush with face of wood paneling - set into concrete wall as required. Locate per below drawing.
4. Intent is to recess into fiber cement panel assembly. Detail will be provided with ASI.

Lynn Grossman Cannon Design 7/22/16

Item #5 - Power will be required. We are awaiting the final AV design package from Webster University's AV consultant. Final monitor rough-in requirements will be included in an upcoming drawing revision.

Item #6 - We are awaiting the final AV design package from Webster University's AV consultant. Final subwoofer rough-in requirements will be included in an upcoming drawing revision.

Tom Becker, Faith Group 7/14/16



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A. DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR LOCATION AND ORIENTATION OF DEVICES. WHERE LOCATIONS ARE NOT INDICATED ON ARCHITECTURAL DRAWINGS, COORDINATE LOCATION AND ORIENTATION OF DEVICES IN FIELD WITH ARCHITECT PRIOR TO ROUGH-IN.

B. ALL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE

C. ALL DEVICES TO REMAIN ARE INDICATED WITH A THIN SOLID LINE WEIGHT AND SUBSCRIPT "EX".

D. CONTRACTOR SHALL VISIT PRIOR TO BID SUBMITTALS TO DETERMINE SITE CONDITIONS EFFECTING THE EXECUTION OF WORK. FAILURE TO BE ACQUAINTED WITH EXISTING CONDITIONS WILL NOT BE JUSTIFICATION FOR ADDITIONAL SERVICES.

E. PROVIDE FACE PLATES ON ALL J-BOXES ABANDONED IN FINISHED FLOOR, WALL OR CEILINGS. COORDINATE COLOR AND FINISH WITH ARCHITECT. CONTRACTOR TO VERIFY QUANTITY IN THE FIELD.

F. WHERE EXPOSED CONDUIT IS NOTED, CONTRACTOR SHALL IDENTIFY ROUTING IN FIELD AND OBTAIN ARCHITECT'S APPROVAL OF ROUTING PRIOR TO ROUGH-IN. EXPOSED CONDUIT SHALL BE ROUTED TIGHT TO STRUCTURE.

G. ALL SINGLE PHASE BRANCH CIRCUITS SHOWN SHALL HAVE DEDICATED NEUTRALS TO MEET NEC SECTION 210.4 MULTI-WIRE BRANCH CIRCUIT REQUIREMENTS.

H. REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT ROUGH-IN O/D DATA VOICE AND A/V.

I. ALL 120V BRANCH CIRCUITS ON THIS SHEET SHALL BE FED FROM PANEL 1N1 UNLESS NOTED OTHERWISE.

**E01** REFER TO EQUIPMENT DATA SCHEDULE FOR BRANCH CIRCUIT INFORMATION

**E02** PROVIDE NEW RECEPTACLE FOR MONITOR, COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND TECHNOLOGY PLANS.

**E03** PROVIDE NEW RECEPTACLE FOR WALL MOUNTED PROJECTOR. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND A/V DRAWINGS.

E05 PROVIDE NEW TWO SECTION ALUMINUM RACEWAY, WIREMOLD AL4320 WITH RECEPTACLES MOUNTED 24" ON CENTER UNLESS NOTED OR SHOWN OTHERWISE. PROVIDE ALL ACCESSORIES FOR A COMPLETE INSTALLATION. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT AND LENGTH. SEE DETAILS ON SHEET E402.

**E06** OUTLET SHALL BE MOUNTED TO THE BACK SIDE OF THE TELECOMMUNICATION RACK AND FED FROM ABOVE. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH TELECOMMUNICATIONS CONTRACTOR PRIOR TO INSTALLATION.

**E07** OUTLET FOR RACK MOUNTED A/V EQUIPMENT, COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS AND A/V DRAWINGS.

**E11** PROVIDE POWER AND FINAL CONNECTION TO WALL MOUNTED BLUE LIGHT EMERGENCY INTERCOM STATION.

**E15** PROVIDE MUSHROOM HEAD PUSH BUTTON SWITCH AND 6 POLE CONTACTOR. PUSH BUTTON SHALL DEACTIVATE POWER TO CONTACTOR AND ASSOCIATED CIRCUITS. VERIFY WHICH RECEPTACLES IN SIM LAB SHALL BE CONTROLLED WITH OWNERS REPRESENTATIVE. ALL RECEPTACLES AND COVER PLATES FED THROUGH CONTACTOR SHALL BE RED IN COLOR AND SHALL BE LABELED "NOT ON GENERATOR."

**E19** PROVIDE POWER AND FINAL CONNECTION TO ELECTRIC DOOR OPENER. COORDINATE POWER REQUIREMENTS WITH DOOR INSTALLER PRIOR TO ROUGH-IN.

**E20** PROVIDE POWER AND FINAL CONNECTION TO ELECTRIC DOOR OPENER CONTROLS. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.

**E35** ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 1LL2.

**E50** ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 1NL3

DE POWER TO BUILDING AUTOMATION SYSTEM PANEL. COORDINATE LOCATION WITH  
ATION CONTRACTOR.

DE POWER TO SUBWOOFER, COORDINATE LOCATION WITH A/V DRAWINGS

BE A 2HR FIRE CLASSIFIED 2-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX TO WIREMOLD CAT. NO. RFB2S-FC WITH A BRASS FLANGED COVER CAT. NO. BS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (2) 1/2" (1/2")-LOCK RECEPTACLES, NEMA 15-20R. THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE

DE A 2HR FIRE CLASSIFIED 4-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX TO WIREMOLD CAT. NO. RF84S-FC WITH A BRASS FLANGED COVER CAT. NO. BS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (2) PLEX RECEPTACLE, (1) GANG - DATA/VOICE (SEE TECHNOLOGY DRAWINGS FOR TYPE), (1) GANG - A/V (SEE A/V DRAWINGS FOR DEVICE TYPES). THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH TO THE FLOOR.

DE A 2HR FIRE CLASSIFIED 6-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX TO WIREMOLD CAT. NO. EFBS-FV WITH A BRASS FLUSH COVER CAT. NO. 108TBS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR A DUPLEX RECEPTACLE, (1) GANG - DATA/VOICE (SEE TECHNOLOGY DRAWINGS FOR DEVICE TYPE), (3) GANG - A/V (SEE A/V DRAWINGS FOR DEVICE TYPES). THE BOX SHALL BE CALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH TO THE FLOOR.

**E67** PROVIDE A 2HR FIRE CLASSIFIED 2-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RFB2S-FC WITH A BRASS FLANGED COVER CAT. NO. FPBTCBS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (2) 20A DUPLEX RECEPTACLES WITH USB PORTS. THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.

**E68** PROVIDE FIRE ALARM CONTROL MODULE TO RELEASE POWER TO ELECTRICALLY HELD OPEN FIRE DOOR UPON ACTIVATION OF ASSOCIATED SMOKE DETECTOR.

**E70** PROVIDE NEMA L5-20R, 20A-120V TWIST LOCK RECEPTACLE FOR RACK MOUNTED PDU.  
COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH TECHNOLOGY CONTRACTOR

E74 FEED FIXED FURNITURE FROM BELOW AND MAKE ALL FINAL CONNECTIONS TO RECEPTACLES.

**E75** RECEPTACLES SHALL BE MOUNTED HORIZONTALLY, REFER TO ARCHITECTURAL PLANS AND ELEVATIONS.



**KEY PLAN**

**LEVEL 01 AREA B FLOOR  
PLAN - ELECTRICAL &  
AUXILIARY**

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Project No.: 04561.01                      Checked by:

# E0101.B

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**LEVEL 01 - AREA B - FLOOR PLAN - POWER AND AUXILLARY**

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1 LEVEL 01 - AREA B  
1/8" = 1'-0"



## GENERAL NOTES:

THIS SHEET ONLY

1. DATA OUTLETS IN OFFICES SHALL BE LOCATED ADJACENT TO AND AT THE SAME MOUNTING HEIGHT AS THE POWER RECEPTACLES, COORDINATE LOCATION WITH THE ELECTRICAL CONTRACTOR.
2. TELECOMMUNICATION CABLEING ON THIS SHEET SHALL BE RUN TO LEVEL 01 DATA ROOM 100B.
3. FLOOR BOXES ARE SPECIFIED ON THE ELECTRICAL DRAWINGS UNLESS OTHERWISE NOTED.

## KEYED NOTES:

THIS SHEET ONLY

1. CABINET MOUNTED AV EQUIPMENT (OFVI), COORDINATE DEVICE LOCATION WITH CABINET AND AV EQUIPMENT INSTALLER.
2. LOCAL DOOR LOCK POWER SUPPLY.
3. PROVIDE (1) CAT 6A CABLE IN 1" PVC CONDUIT IN SLAB. COORDINATE TERMINATION REQUIREMENTS WITH SIMULATOR EQUIPMENT INSTALLER.
4. PROVIDE A FLUSH MOUNTED WALL BOX (HUBBELL HBL260) WITH A SINGLE GANG RING FOR AV CABLES. STUB A 2" CONDUIT INTO ACCESSIBLE CEILING SPACE.
5. PROVIDE A 4-11/16" SQUARE X 2-1/8" DEEP BOX WITH A SINGLE RING (VERTICAL) AND A 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE FOR THE AC SYSTEM TOUCH SCREEN CONTROLLER.
6. PROVIDE A 4-11/16" SQUARE X 2-1/8" DEEP BOX WITH 2-GANG RING (VERTICAL) AND (1) 1 1/2" CONDUIT STUBBED INTO ACCESSIBLE CEILING.
7. WALL MOUNT BLUE LIGHT EMERGENCY INTERCOM STATION WITH WIRELESS RAPID COMMUNICATION. SHALL BE FURNISHED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR. STATION SHALL BE MOUNTED SO INTERCOM IS 48" ABOVE GRADE. SEE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.
8. CONFIRM EXACT LOCATION AND TERMINATION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
9. NOT USED
10. COORDINATE HEIGHT AND LOCATION WITH PA SPEAKER INSTALLER.
11. PROVIDE A 24" W X 4" H VERTICAL WALL MOUNTED BASKET TRAY FROM THE AV EQUIPMENT RACK UP INTO THE ACCESSIBLE CEILING SPACE FOR AV CABLEING. COORDINATE EXACT LOCATION WITH AV EQUIPMENT INSTALLER.
12. SEE ELECTRICAL DRAWINGS FOR FLOOR BOX INFORMATION.
13. INSTALL COMMUNICATION OUTLET IN THE COMMUNICATIONS SIDE OF THE 2-CHANNEL RACEWAY. SEE ELECTRICAL DRAWINGS FOR RACEWAY INFORMATION.
14. CONFIRM EXACT LOCATION OF DATA OUTLET AND MONITOR BOX WITH AV VENDOR PRIOR TO INSTALLATION.
15. PROVIDE (2) 1" CONDUITS IN SLAB FOR DATA AND AV CABLES. STUB CONDUIT UP THROUGH WALL CAVITY TO ACCESSIBLE CEILING SPACE.
16. NOT USED
17. NOT USED
18. PROVIDE (1) 1 1/2" CONDUIT FOR AV AND (1) 1" CONDUIT FOR DATA IN SLAB. STUB UP INTO ACCESSIBLE CEILING SPACE.
19. NOT USED
20. PROVIDE A 4-11/16" SQUARE X 2-1/8" DEEP WALL MOUNTED BOX FOR PTZ CAMERA WITH A 1" CONDUIT WITH PULL STRING STUBBED INTO ACCESSIBLE CEILING SPACE. COORDINATE MOUNTING HEIGHT AND LOCATION WITH PTZ CAMERA INSTALLER.
21. NOT USED
22. PROVIDE A 2-GANG J-BOX UNDER THE STAGE WITH A 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE ABOVE THE CONTROL ROOM FOR THE SUBWOOFER.
23. PROVIDE (8) HUBBELL LARGE CAPACITY WALL BOXES (HBL260) WITH (1) 1 1/2" CONDUIT EACH STUBBED INTO ACCESSIBLE CEILING SPACE IN THE AV EQUIPMENT ROOM FOR THE VIDEO WALL MONITORS. COORDINATE BOX MOUNTING HEIGHT AND LOCATION WITH VIDEO WALL INSTALLER.



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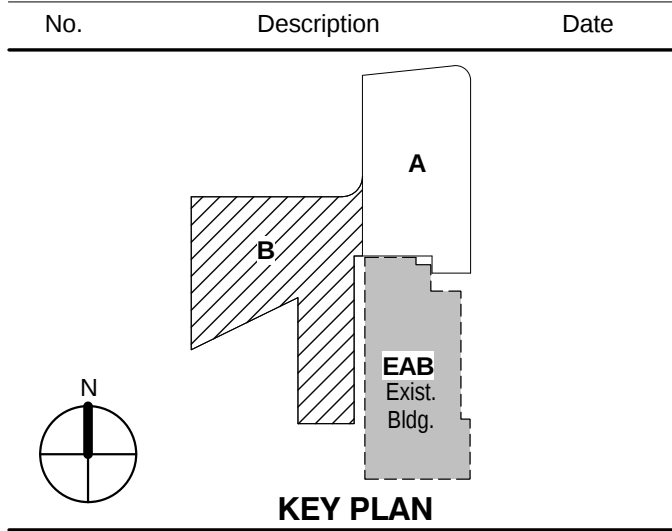
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CONFORMED SET 01 JUL 2016

1 ADDENDUM 2-2 19 APR 2016  
ISSUED FOR CONSTRUCTION (BP2) 01 MAR 2016



KEY PLAN

**LEVEL 01 FLOOR PLAN -  
AREA B**

Project No.: 04561.01 Checked by:

**T0101.B**